TEST REPORT

FCC Digitizer Test for SM-X400
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2506-FC101

DATE OF ISSUE
June 25, 2025

Tested by
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TEST REPORT

REPORT NO.
HCT-RF-2506-FC101

DATE OF ISSUE
June 25, 2025

Applicant	SAMSUNG Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	Tablet SM-X400
FCC ID	A3LSMX400
Date of Test	May 7, 2025 ~ June 19, 2025
Test Results	PASS
FCC Classification	Part 15 Low Power Transmitter Below 1705 kHz (DCD)
Test Standard Used	FCC Rule Part(s): FCC Part 15, Subpart C (15.209)
Location of Test	■ Permanent Testing Lab ☐ On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

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REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	June 25, 2025	Initial Release

Notice

Content
Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance. The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated. The test results have only been applied with the test methods required by the standard(s). The laboratory is not accredited for the test results marked *. Information provided by the applicant is marked **. Test results provided by external providers are marked ***. When confirmation of authenticity of this test report is required, please contact www.hct.co.kr The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA). Data referencing: Digitizer Report (FCC ID: A3LSMX406B, Report No. HCT-RF-2506-FC093)

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1. EUT DESCRIPTION

Model	SM-X400
Additional Model	-
EUT Type	Tablet
Power Supply	DC 3.86 V
Frequency of Operation	Digitizer: 531.25 kHz – 656.25 kHz
Mode of Operation	Mode 1: 531.25 kHz Mode 2: 562.50 kHz Mode 3: 593.75 kHz Mode 4: 656.25 kHz
Max. Transmit Power	6.827 dBμV/m @30 m
Serial number	Radiated : R32Y400CS0N

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2. TEST METHODOLOGY

The measurement procedure described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Device (ANSI C63.10-2013) is used in the measurement of the test device.

EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.205, 15.207 and 15.209 under the FCC Rules Part 15 Subpart C.

GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2013) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1 GHz. Above 1 GHz with 1.5 m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 6.6.5 of ANSI C63.10. (Version: 2013).

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3. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment's, which is traceable to recognized national standards.
Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

4. FACILITIES AND ACCREDITATIONS

FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.
Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.
Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.
All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5. ANTENNA REQUIREMENTS

According to FCC 47 CFR § 15.203:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 shall be considered sufficient to comply with the provisions of this section."

(1) The antennas of this E.U.T are permanently attached.
(2) The E.U.T Complies with the requirement of § 15.203

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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 (±kHz)
Emission Bandwidth	95 (Confidence level about 95 %, *k=2*)

Parameter	Expanded Uncertainty (±dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.54 (Confidence level about 95 %, *k=2*)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.68 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.75 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.82 (Confidence level about 95 %, *k*=2)

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7. WORST CASE CONFIGURATION

Mode	EUT State
Mode 1: 531.25 kHz Mode 2: 562.50 kHz Mode 3: 593.75 kHz Mode 4: 656.25 kHz	Stand alone

Note:

1 . All modes of operation were investigated and the worst case configuration results are reported.

- Mode : Stand alone, EUT + Travel Adapter, EUT + External accessories(S-Pen, Keyboard cover etc) + Travel Adapter
- Worstcase : Stand alone

2. All position of loop antenna were investigated and the worst position results are reported.

- Position : Horizontal, Vertical, Parallel to the ground plane
- Worst Position : Horizontal

3. The EUT was tested in three orthogonal axis(X, Y, Z) and the worst position results are reported.

- Axis : X, Y, Z
- Worst Axis : Z

AC Power line Conducted Emissions

1. All modes of operation were investigated and the worst case configuration results are reported.

- Mode : EUT + External accessories(S-Pen, Keyboard cover etc) + Travel Adapter, EUT + Travel Adapter
- Worstcase : EUT + Travel Adapter

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8. SUMMARY OF TEST RESULTS & DATA REFERENCING

8.1. Test result

Test Description	FCC Rule	Limit	Condition	Result
Radiated emission	§ 15.209	cf. Section 9	Radiated	Pass
AC Power Line Conducted Emission	§ 15.207	cf. Section 10		Pass
Emission bandwidth.	§ 2.1049	See note1		See note1

Note:

1. For reporting purposes only.
2. The decision rule applies 'simple acceptance'

8.2. Data Referencing

Equipment Class	Rule Part	Test item	Data Referencing	Comments
DCD (Digitizer)	2.1049	Emission bandwidth.	Y	-
	15.209	Radiated emission	Y	Spot-check
	15.207	AC Power Line Conducted Emission	Y	-

Spot-Check Result

1. Data was leveraged from model SM-X406B for the certification of SM-X400.
2. Please refer to the [FCC Evaluation] Report.

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9. RADIATED EMISSION MEASUREMENT

Test Settings

1. Analyzer frequency set to the frequency of the radiated spurious emission of interest.
2. RBW :
   9 kHz – 150 kHz : 300 Hz
   150 kHz – 30 MHz : 10 kHz
   30 MHz – 1G Hz : 100 kHz
3. VBW : ≥ 3 x RBW
4. Sweep time : Auto couple
5. Detector : Peak
6. Trace : Maxhold
7. Trace was allowed to stabilize

Limit

Except as provided elsewhere in this paragraph the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Rule Part	Frequency (MHz)	Limit
Part 15.209	0.009 ~ 0.490	2400/F(kHz) μV/m@300 m
	0.490 ~1.705	24000/F(kHz) μV/m@30 m
	1.705 ~ 30	30 μV/m@30 m
	30 ~ 88	100 ** μV/m@3 m
	88 ~ 216	150 ** μV/m@3 m
	216 ~ 960	200 ** μV/m@3 m
	Above 960	500 μV/m@3 m

** Except as provided in 15.209(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.

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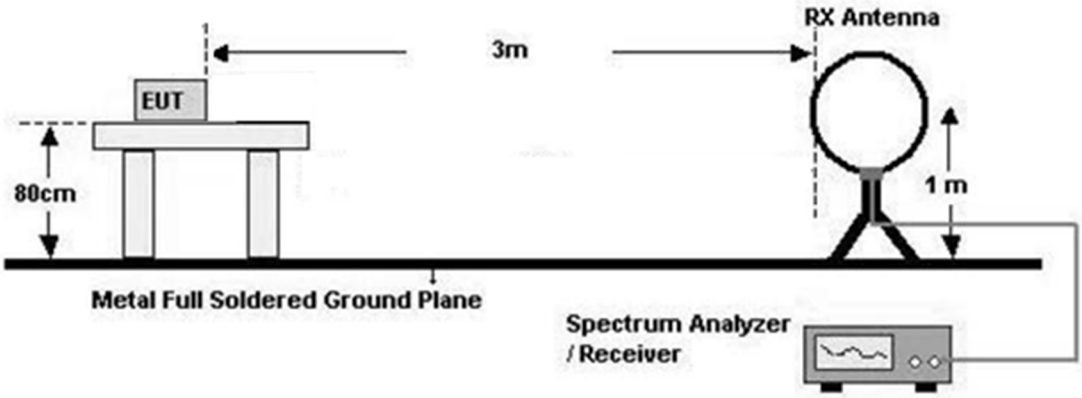
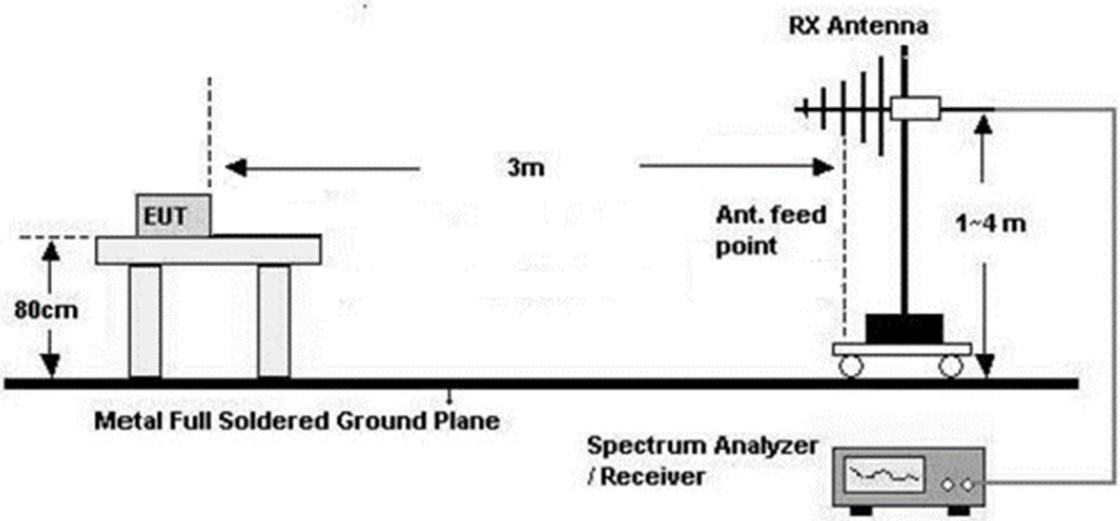
Test Set-up

Below 30 MHz



30 MHz - 1 GHz



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Test Procedure of Radiated spurious emissions(Below 30 MHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3 m from the EUT.
3. The EUT is placed on a turntable, which is 0.8 m above ground plane.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The limit is converted from microvolts/meter to decibel microvolts/meter. Sample Calculation:
   * Result Value(dBμV/m@30 m)
     = Measured Value(dBμV/m@3 m) + Ant factor(dB/m) + Cable Loss(dB)
       – Distance Correction Factor(dB)
6. Distance Correction
   * 0.009 MHz – 0.490 MHz :
   40log(3 m/300 m) = - 80 dB
   * 0.490 MHz – 30 MHz :
   40log(3 m/30 m) = - 40 dB
7. Plots were taken without using any correction factors.
8. The worst case plots are reported.

KDB 414788 OFS and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

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Test Procedure of Radiated spurious emissions(Below 1 GHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1m to 4m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Spectrum Setting
   (1) Measurement Type(Peak):
      - Measured Frequency Range : 30 MHz – 1 GHz
      - Detector = Peak
      - Trace = Maxhold
      - RBW = 100 kHz
      - VBW ≥ 3 x RBW
7. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L)
8. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

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▣ Test Result

Frequency	Reading Value	Ant.Factor	Cable Loss	Distance Correction	Result Value	Limit	Margin
(kHz)	(dBμV/m)@3m	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
15.883	51.08	19.80	0.58	-80.00	-8.543	43.59	52.13
155.820	34.97	19.90	0.58	-80.00	-24.553	23.75	48.30
#530.447	27.39	19.90	0.58	-40.00	7.867	33.11	25.24
692.000	16.38	19.90	0.58	-40.00	-3.143	30.80	33.94
15305.700	11.73	19.90	0.58	-40.00	-7.793	29.54	37.33

Note
1. Mode: 1
2. "#": Fundamental Frequency
3. EUT state: Stand alone
4. 30 MHz – 1GHz : No Critical peaks found

Frequency	Reading Value	Ant.Factor	Cable Loss	Distance Correction	Result Value	Limit	Margin
(kHz)	(dBμV/m)@3m	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
17.669	51.90	19.80	0.58	-80.00	-7.723	42.66	50.38
150.300	34.50	19.90	0.58	-80.00	-25.023	24.07	49.09
#562.489	27.22	19.90	0.58	-40.00	7.697	32.60	24.90
717.000	17.50	19.90	0.58	-40.00	-2.023	30.49	32.52
8504.500	11.28	20.00	0.58	-40.00	-8.143	29.54	37.68

Note
1. Mode: 2
2. "#": Fundamental Frequency
3. EUT state: Stand alone
4. 30 MHz – 1GHz : No Critical peaks found

Frequency	Reading Value	Ant.Factor	Cable Loss	Distance Correction	Result Value	Limit	Margin
(kHz)	(dBμV/m)@3m	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
17.669	51.65	19.80	0.58	-80.00	-7.973	42.66	50.63
153.900	34.99	19.90	0.58	-80.00	-24.533	23.86	48.39
#593.625	26.18	19.90	0.58	-40.00	6.657	32.13	25.48
707.000	17.50	19.90	0.58	-40.00	-2.023	30.62	32.64
8504.500	11.28	20.00	0.58	-40.00	-8.143	29.54	37.68

Note
1. Mode: 3
2. "#": Fundamental Frequency
3. EUT state: Stand alone
4. 30 MHz – 1GHz : No Critical peaks found

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Frequency	Reading Value	Ant.Factor	Cable Loss	Distance Correction	Result Value	Limit	Margin
(kHz)	(dBμV/m)@3m	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
17.669	52.02	19.80	0.58	-80.00	-7.603	42.66	50.26
155.220	35.08	19.90	0.58	-80.00	-24.443	23.79	48.23
#656.911	26.35	19.90	0.58	-40.00	6.827	31.25	24.43
677.000	17.85	19.90	0.58	-40.00	-1.673	30.99	32.67
5792.900	11.09	20.00	0.58	-40.00	-8.333	29.54	37.87

Note
1. Mode: 4
2. "#": Fundamental Frequency
3. EUT state: Stand alone
4. 30 MHz – 1GHz : No Critical peaks found

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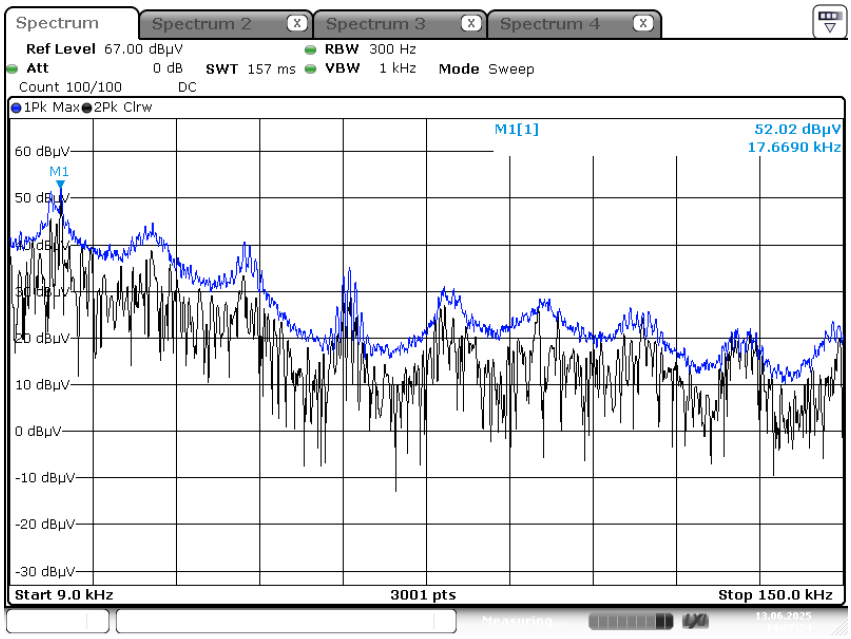
▣Test Plot

In order to simplify the report, the worst case results are reported.

Worst case – Mode 4

Frequency Range : 9 kHz – 150 kHz



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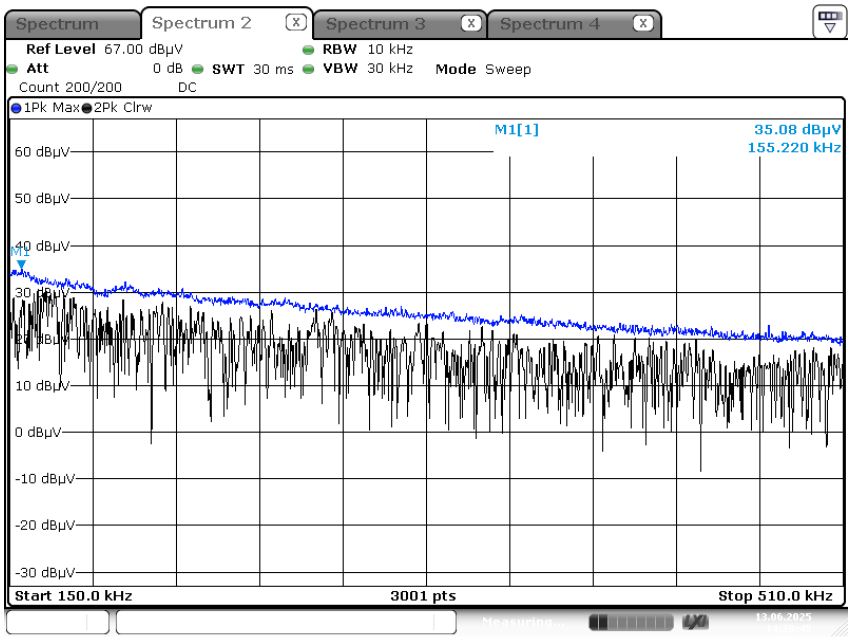
Frequency Range : 150 kHz – 510 kHz



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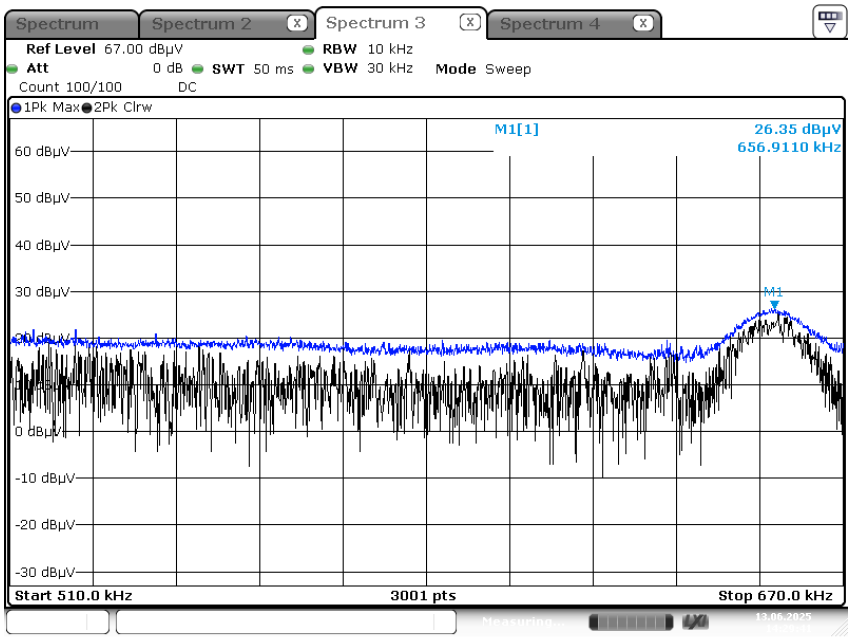
Frequency Range : 510 kHz – 670 kHz



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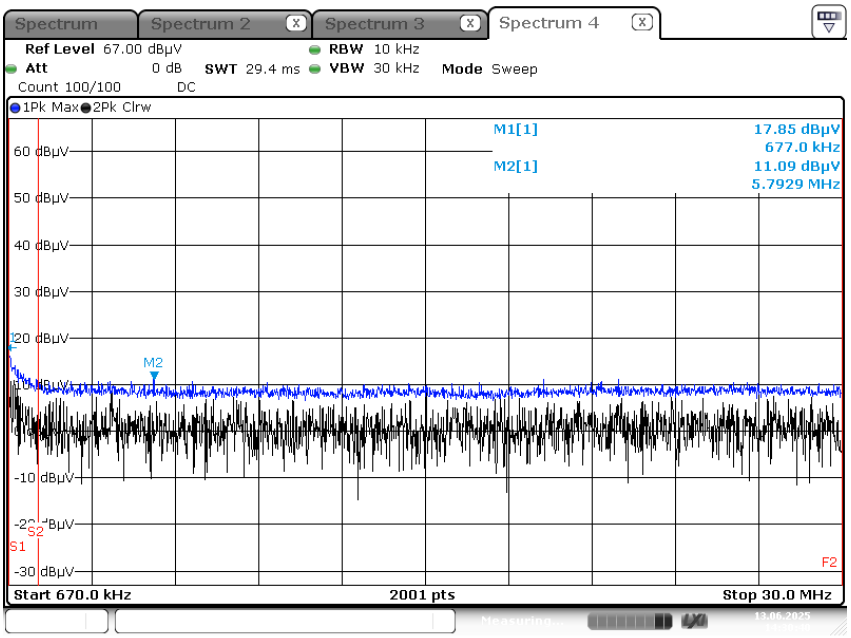
Frequency Range : 670 kHz – 30 MHz



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Frequency Range : 30 MHz – 1 GHz

(30 MHz – 1GHz : No Critical peaks found)

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10. POWERLINE CONDUCTED EMISSIONS

Limit

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 μH/50 ohms line impedance stabilization network (LISN).

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56[(a)]	56 to 46[(a)]
0.50 to 5	56	46
5 to 30	60	50

[(a)]Decreases with the logarithm of the frequency.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Annex A for the actual connections between EUT and support equipment.

Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors : Quasi Peak and Average Detector.
5. The EUT is the device operating below 30 MHz.
   - For unterminated the Antenna, the AC line conducted tests are performed with the antenna connected
   - For terminated the Antenna, the AC line conducted tests are performed with a dummy load connected to the EUT antenna output terminal.

Sample Calculation

Quasi-peak(Final Result) = Measured Value + Correction Factor

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▣ Test Result & Plot

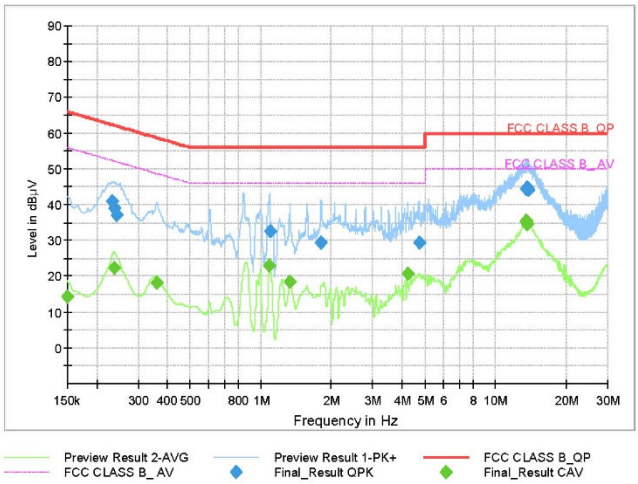
Test 1 / 1

Test Report

Common Information

EUT : SM-X406B
Operating Conditions : Digitizer Mode
Comment :

Full Spectrum



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.2333	40.93	62.33	21.40	9.000	L1	9.7
0.2378	39.19	62.17	22.99	9.000	L1	9.7
0.2423	37.19	62.02	24.82	9.000	L1	9.7
1.0940	32.64	56.00	23.36	9.000	L1	9.7
1.8118	29.49	56.00	26.51	9.000	L1	9.7
4.7165	29.29	56.00	26.71	9.000	L1	9.8
13.4870	44.59	60.00	15.41	9.000	L1	10.2
13.6850	44.66	60.00	15.34	9.000	L1	10.2
13.7818	44.14	60.00	15.86	9.000	L1	10.2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1500	14.20	56.00	41.80	9.000	N	9.6
0.2378	22.45	52.17	29.72	9.000	L1	9.7
0.3593	18.31	48.75	30.44	9.000	N	9.6
1.0873	23.01	46.00	22.99	9.000	L1	9.7
1.3280	18.50	46.00	27.50	9.000	L1	9.7
4.2328	20.65	46.00	25.35	9.000	L1	9.8
13.4983	35.38	50.00	14.62	9.000	L1	10.2
13.5050	35.32	50.00	14.68	9.000	L1	10.2
13.6828	34.57	50.00	15.43	9.000	L1	10.2

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11. EMISSION BANDWIDTH PLOT

Test Settings

1. Analyzer frequency set to the frequency of the radiated spurious emission of interest
2. RBW : 300 Hz
   (Because the measured signal is CW/CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.)
3. VBW : ≥ 3 x RBW
4. Sweep time : Auto couple
5. Detector : Peak
6. Trace : Maxhold
7. Trace was allowed to stabilize

Limit

None

(for reporting purposes only.)

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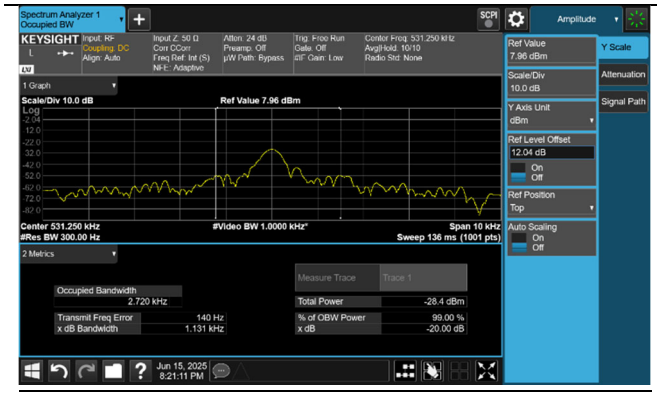
▣ Test Result

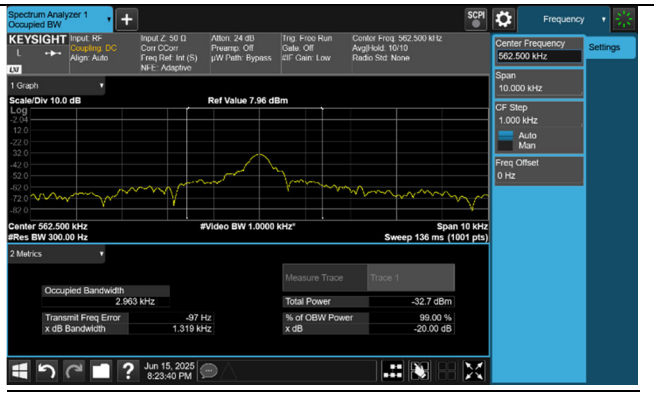
EUT Mode	Test Frequency (kHz)	Occupied Bandwidth 99% BW(kHz)	20dB BW (kHz)
Mode 1	531.25	2.720	1.131
Mode 2	562.50	2.963	1.319
Mode 3	593.75	2.611	1.499
Mode 4	656.25	2.858	1.403

▣ Test Plot

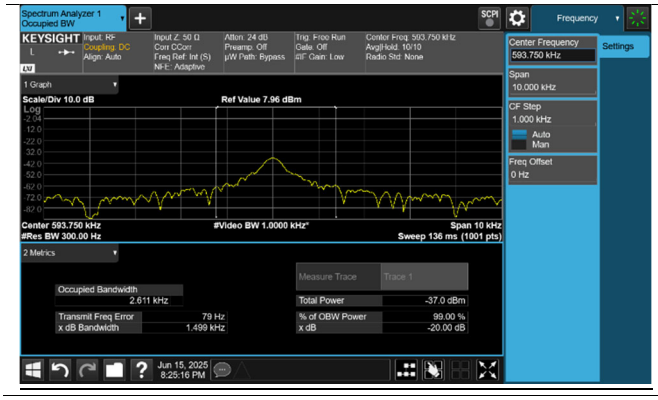
Mode 1



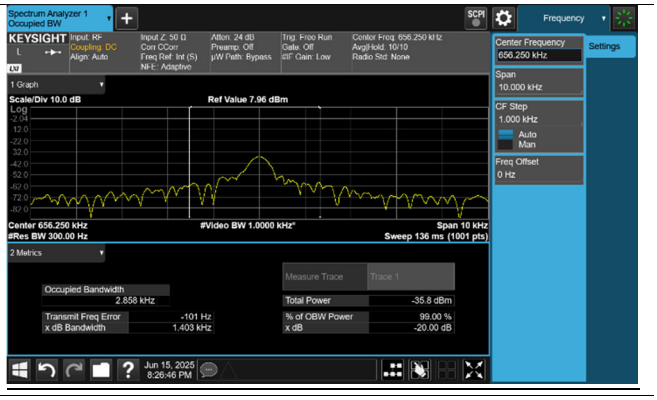
Mode 2



Mode 3



Mode 4



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12. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller (Antenna mast & Turn Table)	CO3000	Innco system	CO3000/ 15421/57580623/G	N/A	N/A
Antenna Position Tower	MA4640	Innco system	9320422	04/03/2026	Biennial
Turn Table	N/A	Innco system	5930623	N/A	N/A
LISN	ENV216	Rohde & Schwarz	102245	07/17/2025	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	07/02/2025	Annual
Loop Antenna	FMZB 1513	Schwarzbeck	1513-175	01/06/2027	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-1135	08/19/2026	Biennial
Power Amplifier	310N	SONOMA INST RUMENT	186169	02/05/2026	Annual
Spectrum Analyzer	FSV40 (9 kHz ~ 40 GHz)	Rohde & Schwarz	101510	09/24/2025	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

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13. Annex A_TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2506-FC101-P

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