

DOKE COMMUNICATION (HK) LIMITED

TEST REPORT

SCOPE OF WORK
FCC TESTING—FORT 1

REPORT NUMBER
250522061SZN-004

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**RF
TEST REPORT**

Report No. : 250522061SZN-004
Product : Smart phone
Model No. : FORT 1
Brand Name : Blackview
Sample ID : Z250522061-001
FCC ID : 2A7DX-FORT1

Applicant: DOKE COMMUNICATION (HK) LIMITED
19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO KONG KL
Test Method/ FCC Part 15 Subpart E;
Standard: KDB 789033 D02 v02r01;
KDB 662911 D01 v02r01;
KDB 905462 D02 v02;
ANSI C63.10-2013
Test By: Intertek Testing Services Shenzhen Ltd. Longhua Branch
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Date: 17 July 2025

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Summary of Tests

| FCC Parts | Test | Section | Results |
|-----------------------------|--|---------|----------------|
| 15.203 | Antenna Requirement | 1.3 | Pass |
| 15.407 a (1)/(3) | Maximum output power test | 3 | Pass |
| 15.407 a (1)/(3) | Power Spectrum Density test | 4 | Pass |
| 15.407 e | 6dB Bandwidth | 5 | Pass |
| 15.407 b, 15.205, 15.209 | Radiated spurious emission test | 6 | Pass |
| 15.207 | AC line conducted emission test | 7 | Pass |
| 15.407 g | Frequency Stability | 8 | Pass |
| 15.407 h | DFS: Channel Closing Transmission Time | 9.3 | Not Applicable |
| 15.407 h | DFS: Channel Move Time | 9.3 | Not Applicable |
| 15.407 h | DFS: Non-Occupancy Period | 9.3 | Not Applicable |

1. General information

1.1 Identification of the EUT

Product: Smart phone

Model No.: FORT 1

Type of Device: Slave device

Nominal Channel Bandwidth: 802.11a/n-HT20(20MHz), 802.11n-HT40(40MHz), 802.11ac(20/40/80MHz)

Operating Frequency: 5150MHz~5250 MHz, 5725MHz~5850MHz

Channel Number: 4 channels for 5180 MHz ~ 5240 MHz (802.11 a/n20/ac-HT20);
2 channels for 5190 MHz ~ 5230 MHz (802.11 n40/ac-HT40);
1 channels for 5210 MHz (802.11ac-HT80);
5 channels for 5745 MHz ~ 5825 MHz (802.11a/n20/ac-HT20);
2 channels for 5755 MHz ~ 5795 MHz (802.11n40/ac-HT40);
1 channels for 5775 MHz (802.11ac-HT80);

Modulation: 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)
802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)

Rated Power: DC 3.85V from battery

Test Date(s): 22 May 2025 to 26 June 2025

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Note 2: When determining the test conclusion, the Measurement Uncertainty of test has been considered.

1.2 Additional information about the EUT

The equipment under test (EUT) is a Smart phone with Bluetooth 5.0 (dual-mode) function operating in 2402-2480MHz, 2.4G Wi-Fi function operating in 2412-2462MHz, 5G Wi-Fi function operating in 5150MHz~5250 MHz, 5725MHz~5850MHz, NFC function and GSM, WCDMA, LTE function. For more detail information pls. refer to the user manual.

For more detail features, please refer to User's description as file name "descri.pdf".

Related Submittal(s) Grants

This is an application for certification of U-NII device (5GHz Wi-Fi transmitter portion).

For the BT EDR function was tested and demonstrated in report 250522061SZN-001.

For the BT BLE function was tested and demonstrated in report 250522061SZN-002.

For the 2.4GHz Wi-Fi function was tested and demonstrated in report 250522061SZN-003.

For the GSM, WCDMA, LTE function was tested and demonstrated in report 250522061SZN-005.

For the NFC function was tested and demonstrated in report 250522061SZN-006.

1.3 Antenna description (15.203)

The EUT uses Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

Antenna Gain: 1.8dBi Max.

1.4 Peripherals equipment

| Description | Manufacturer | Model No. |
|--------------------------------------|--------------|--|
| Adaptor (Provided by applicant) | N/A | Model: QZ-0180AAA00 Input: 100-240V~, 50/60Hz, 0.5A Output: 5.0V=3.0A, 9.0V=2.0A, 12.0V=1.5A |
| USB Cable (Provided by applicant) | N/A | Shielded, Length: 100cm |

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 E, Section 15.203, 15.207, 15.209, 15.407 and ANSI C63.10/2013, method of measurement: KDB 789033.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band was all meet limit requirement, thus we evaluate the EUT pass the specified test.

The AC power conducted emissions was invested over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz (15.207 paragraph).

Radiated emissions were invested cover the frequency range from 9KHz to 30MHz using a receiver RBW of 9kHz, from 30 MHz to 1000 MHz using a receiver RBW of 120 kHz record QP reading, and the frequency over 1 GHz using a spectrum analyzer RBW of 1 MHz, VBW of 3MHz, Detector=Peak record for Peak reading, RBW of 1 MHz, VBW of 3MHz, Detector=RMS record for Average reading recorded on the report.

The EUT setup configurations please refer to the photo of radiated setup photos.pdf & conducted setup photos.pdf.

2.2 Operation mode

The EUT was supplied by and it was run in TX mode that was controlled by client provided RF testing program.

The EUT was transmitted continuously during the test. The worst case test result was showed in the report.

With individual verifying, the maximum output power was found at 6 Mbps data rate for 802.11a mode, 6.5 Mbps data rate for 802.11n-HT20/ac-HT20 mode, 13.5 Mbps data rate for 802.11n-HT40/ac-HT40 mode, 29.3 Mbps data rate for 802.11ac-HT80 mode. The final tests were executed under these conditions and recorded in this report individually.

2.3 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Testing Software: Nonsignaling operation platform

2.4 Special Accessories

N/A

3. Maximum Output Power test (FCC 15.407)**3.1 Operating environment**

Temperature: 25 °C

Relative Humidity: 55 %

Atmospheric Pressure: 1011 hPa

3.2 Test setup & procedure

The power output per FCC §15.407(a) was measured on the EUT using a 50 ohm SMA cable connected to Power Meter and the measurement method refer to 789033 D02. Power was read directly and cable loss correction (0.5dB) was added to the reading to obtain power at the EUT antenna terminals.

3.3 Limit

| Operating Frequency (MHz) | Max Conducted TX Power | Max EIRP |
|---------------------------|---------------------------------|------------------------------|
| 5150~5250 | 30dBm (1W) for master device | 4W (36dBm) with 6dBi antenna |
| | 24dBm (250mW) for client device | |
| 5250~5350 | 24dBm (250mW) or 11dBm+ 10logB* | 1W (30dBm) with 6dBi antenna |
| 5470~5725 | 24dBm (250mW) or 11dBm+ 10logB* | 4W (36dBm) with 6dBi antenna |
| 5725~5850 | 30dBm (1W) | 4W (36dBm) with 6dBi antenna |

Remark: 1) *Where B is the 26dB emission Bandwidth in MHz.
2) The device was declared as Slave device.
3) Tx Power Reduction (dBm-by-dBi) required when antenna exceeds 6dBi.

3.4 Measured data of Maximum Output Power test results**Max Conducted TX Power**

Test Result: Please refer the Appendix B1 of “250522061SZN-004_Appendix”.

Max EIRP

Test Result: Please refer the Appendix B2 of “250522061SZN-004_Appendix”.

4. Power Spectrum Density test (FCC 15.407)**4.1 Operating environment**

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1013 hPa

4.2 Test setup & procedure**Method of Measurement:**

The power spectrum density per FCC §15.407(a) was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set at 1MHz/500KHz, the video bandwidth set at 3 MHz/2MHz (measurement method refer to KDB 789033 D02). Power spectrum density was read directly and cable loss reading to obtain power at the EUT antenna terminals.

4.3 Limit

| Operating Frequency (MHz) | Max Conducted Power Spectral Density |
|---------------------------|---|
| 5150~5250 | *17dBm/MHz for master device |
| | 11dBm/MHz for mobile/portable client device |
| 5250~5350 | 11dBm/MHz |
| 5470~5725 | 11dBm/MHz |
| 5725~5850 | 30dBm/500KHz |

Remark: 1) The device was declared as Slave device.
2) Tx Power Reduction (dBm-by-dBi) required when antenna exceeds 6dBi.

4.4 Measured data of Power Spectrum Density test results

Test Result: Please refer the Appendix C of "250522061SZN-004_Appendix".

5. Minimum 6 dB RF Bandwidth (FCC 15.407)

5.1 Operating environment

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1011 hPa

5.2 Test setup & procedure

The Minimum 6 dB RF Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set at 100KHz, and set the video bandwidth (VBW) $\geq 3 \times$ RBW. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

For 26dB down Emission Bandwidth

The 26dB down Emission Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set RBW = approximately 1% of the emission bandwidth. Set the VBW $>$ RBW, Detector = Peak, Trace mode = max hold (Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%).

For 99% Occupied Bandwidth

The 99% Occupied Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set center frequency to the nominal EUT channel center frequency, set span = 1.5 times to 5.0 times the OBW, set RBW = 1 % to 5 % of the OBW, set VBW $\geq 3 \times$ RBW, The 99% occupied bandwidth was determined from where the channel output spectrum intersected the display line.

5.3 Limit

| Operating Frequency (MHz) | Minimum 6 dB RF Bandwidth Limit |
|---------------------------|---------------------------------|
| 5150~5250 | N/A |
| 5250~5350 | N/A |
| 5470~5725 | N/A |
| 5725~ 5850 | \geq 500KHz |

5.4 Measured data of 6dB down Emission Bandwidth test results

The more detail please refer to the Appendix A3 of “250522061SZN-004_Appendix”.

Note: 99% Occupied Bandwidth within the U-NII-1 band and 26dB Emission Bandwidth for reference. The more detail please refer to the Appendix A1 and A2 of “250522061SZN-004_Appendix”.

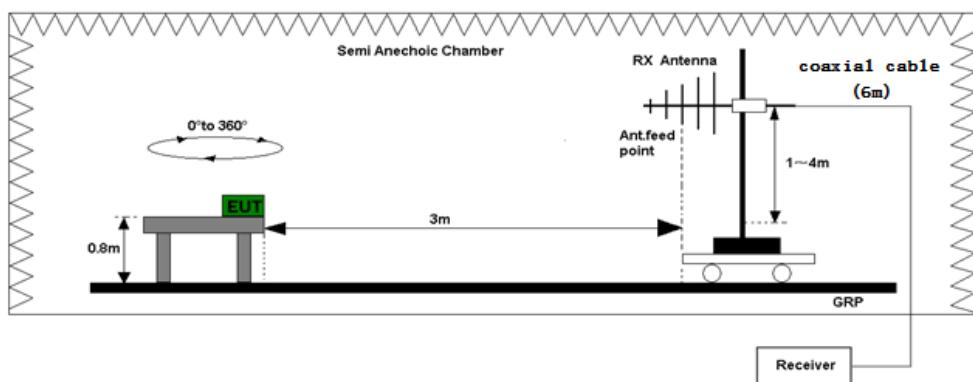
6. Radiated Emission test (FCC 15.205 & 15.209 & 15.407)

6.1 Operating environment

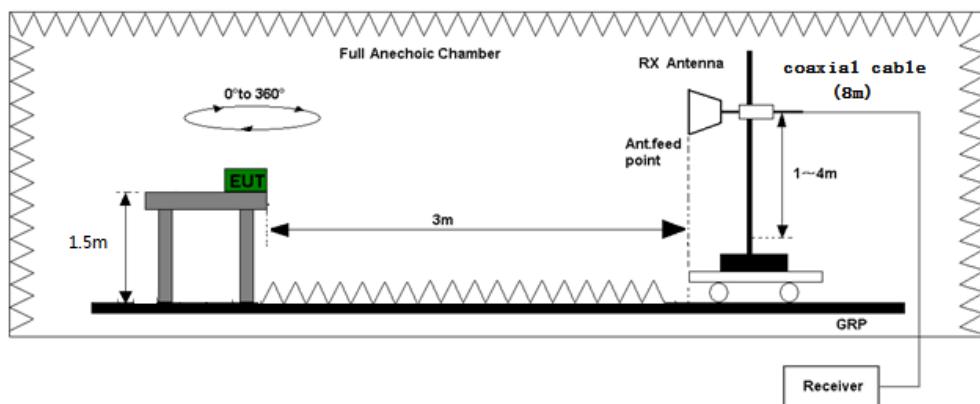
Temperature: 21.9 °C
Relative Humidity: 43 %
Atmospheric Pressure 1011 hPa

6.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Test set-up of radiated disturbance (Up to 1GHz)



Test set-up of radiated disturbance (Above 1GHz)

Radiated emission measurements were performed from 9KHz to tenth harmonic or 40GHz.

The EUT for testing is arranged on a styrene turntable with the height of 0.8m up to 1GHz and 1.5m above 1GHz. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

Testing settings (refer to KDB 789033 D02)

Peak Measurements below 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=120KHz
- 4, Detector=Quasi-Peak
- 5, Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=1MHz
- 4, VBW=3MHz
- 4, Detector= Peak (Max-hold)
- 5, Trace was allowed to stabilize

Average Measurements above 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=1MHz
- 4, VBW=3MHz
- 4, Detector= RMS (Max-hold)
- 5, Trace was allowed to stabilize

6.3 Limit

The spurious Emission shall test through the 10th harmonic or 40GHz (whichever is lower). In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Notes:

- 1, All emission out-side of the 5.15-5.35GHz band shall not exceed an EIRP of -27dBm/MHz (68.2dBuV/m, test distance: 3 meter), For the band 5.725-5.85GHz, all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- 2, The spectrum is measured from 9KHz to the 10th harmonic of the fundamental frequency of the transmitter using QP detector below 1GHz, above 1GHz, average & peak measurements were taken using for test. The worst-case emission are reported however emission whose levels were not within 20dB of the respective limited were not reported.
- 3, The test was performed on EUT under 802.11a/n-HT20/n-HT40/ac-HT20/HT40/HT80 continuously transmitting mode. Simultaneous transmitting was considered during the testing. All mode had been tested, but only the worst-case is recorded in the following graph and table.

6.3.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where FS = Field Strength in dB μ V/m

 RA = Receiver Amplitude (including preamplifier) in dB μ V

 CF = Cable Attenuation Factor in dB

 AF = Antenna Factor in dB

 AG = Amplifier Gain in dB

 PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

6.4 Radiated spurious emission test data**6.4.1 Measurement results: frequencies equal to or less than 1 GHz**

Applicant: DOKE COMMUNICATION (HK) LIMITED

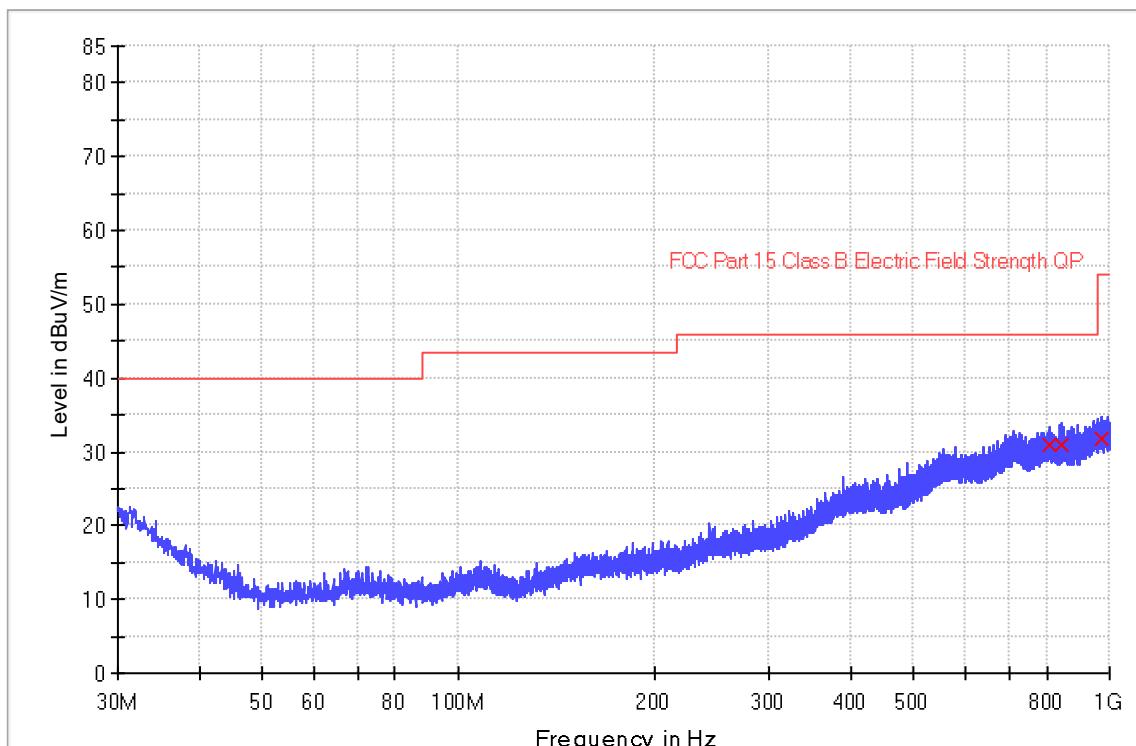
Date of Test: 09 June 2025

Model: FORT 1

Worst Case Operating Mode: Transmit (5190MHz)

Radiated Emissions

ANT Polarity: Horizontal

**Limit and Margin**

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Polarization | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dB μ V/m) |
|-----------------|---------------------------|-----------------|-----------------|--------------|--------------|-------------------|----------------------------|
| 809.520000 | 30.9 | 1000.0 | 120.000 | H | 32.2 | 15.1 | 46.0 |
| 845.040000 | 30.9 | 1000.0 | 120.000 | H | 31.8 | 15.1 | 46.0 |
| 969.840000 | 31.7 | 1000.0 | 120.000 | H | 33.6 | 22.3 | 54.0 |

NOTES:

1. Quasi-Peak detectors are used for frequency below 1GHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions are below the QP limit.

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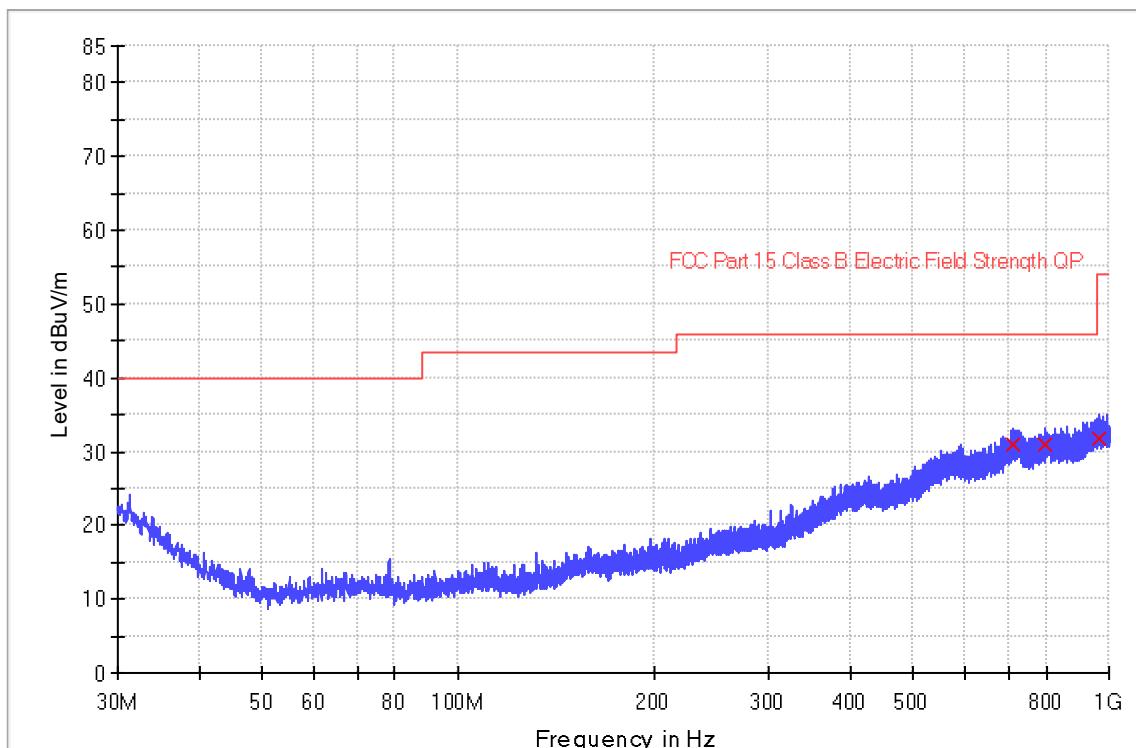
Date of Test: 09 June 2025

Model: FORT 1

Worst Case Operating Mode: Transmit (5190MHz)

Radiated Emissions

ANT Polarity: Vertical

**Limit and Margin**

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Polarization | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dB μ V/m) |
|-----------------|---------------------------|-----------------|-----------------|--------------|--------------|-------------------|----------------------------|
| 712.944667 | 31.0 | 1000.0 | 120.000 | V | 30.9 | 15.0 | 46.0 |
| 796.914333 | 31.0 | 1000.0 | 120.000 | V | 32.2 | 15.0 | 46.0 |
| 965.435667 | 31.7 | 1000.0 | 120.000 | V | 33.6 | 22.3 | 54.0 |

NOTES:

1. Quasi-Peak detectors are used for frequency below 1GHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions are below the QP limit.

6.4.2 Measurement results: frequency above 1GHz

The worst case occurred at 802.11n-HT40

Channel 38

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | 10380.000 | 43.9 | 36.3 | 38.9 | 46.5 | 68.2 | -21.7 |
| Horizontal | 15570.000 | 45.7 | 34.7 | 41.0 | 52.0 | 68.2 | -16.2 |
| Horizontal | 5150.000 | 61.1 | 33.5 | 32.9 | 60.5 | 68.2 | -7.7 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | 10380.000 | 38.7 | 36.3 | 38.9 | 41.3 | 54.0 | -12.7 |
| Horizontal | 15570.000 | 39.8 | 34.7 | 41.0 | 46.1 | 54.0 | -7.9 |
| Horizontal | 5150.000 | 51.4 | 33.5 | 32.9 | 50.8 | 54.0 | -3.2 |

Channel 46

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | 10460.000 | 45.6 | 36.3 | 38.9 | 48.2 | 68.2 | -20.0 |
| Horizontal | 15690.000 | 43.6 | 34.7 | 41.0 | 49.9 | 68.2 | -18.3 |
| Horizontal | 5350.000 | 47.3 | 33.4 | 33.2 | 47.1 | 68.2 | -21.1 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | 10460.000 | 41.2 | 36.3 | 38.9 | 43.8 | 54.0 | -10.2 |
| Horizontal | 15690.000 | 36.8 | 34.7 | 41.0 | 43.1 | 54.0 | -10.9 |
| Horizontal | 5350.000 | 38.2 | 33.4 | 33.2 | 38.0 | 54.0 | -16.0 |

Channel 151

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | 11510.000 | 46.6 | 36.3 | 39.0 | 49.3 | 68.2 | -18.9 |
| Horizontal | 17265.000 | 44.5 | 34.7 | 41.2 | 51.0 | 68.2 | -17.2 |
| Horizontal | 5725.000 | 76.0 | 33.9 | 32.9 | 75.0 | 122.2 | -47.2 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | 11510.000 | 40.7 | 36.3 | 39.0 | 43.4 | 54.0 | -10.6 |
| Horizontal | 17265.000 | 39.6 | 34.7 | 41.2 | 46.1 | 54.0 | -7.9 |

Channel 159

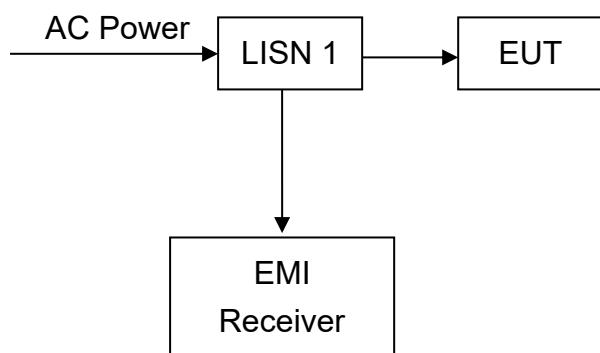
| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | 11590.000 | 47.4 | 36.3 | 39.0 | 50.1 | 68.2 | -18.1 |
| Horizontal | 17385.000 | 45.0 | 34.7 | 41.2 | 51.5 | 68.2 | -16.7 |
| Horizontal | 5850.000 | 62.6 | 33.4 | 34.5 | 63.7 | 122.2 | -58.5 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | 11590.000 | 41.2 | 36.3 | 39.0 | 43.9 | 54.0 | -10.1 |
| Horizontal | 17385.000 | 38.1 | 34.7 | 41.2 | 44.6 | 54.0 | -9.4 |

- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet the corresponding 20dB permitted peak limit with a peak detector function. All unwanted emissions outside of the 5.15-5.35GHz & 5725-5850 bands are complied with the limit.

7. Power Line Conducted Emission test**7.1 Operating environment**

Temperature: 21.9 °C
Relative Humidity: 43 %
Atmospheric Pressure 1011 hPa

7.2 Test setup & procedure

The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm/50 uH coupling impedance with 50 ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10/2013 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCI 30) is set at 9 kHz.

7.3 Limit

| Frequency (MHz) | Conducted Limit (dBuV) | |
|--------------------|------------------------|----------|
| | Q.P. | Ave. |
| 0.15~0.50 | 66 – 56* | 56 – 46* |
| 0.50~5.00 | 56 | 46 |
| 5.00~30.0 | 60 | 50 |

*Decreases with the logarithm of the frequency.

7.4 Power Line Conducted Emission test data

Applicant: DOKE COMMUNICATION (HK) LIMITED

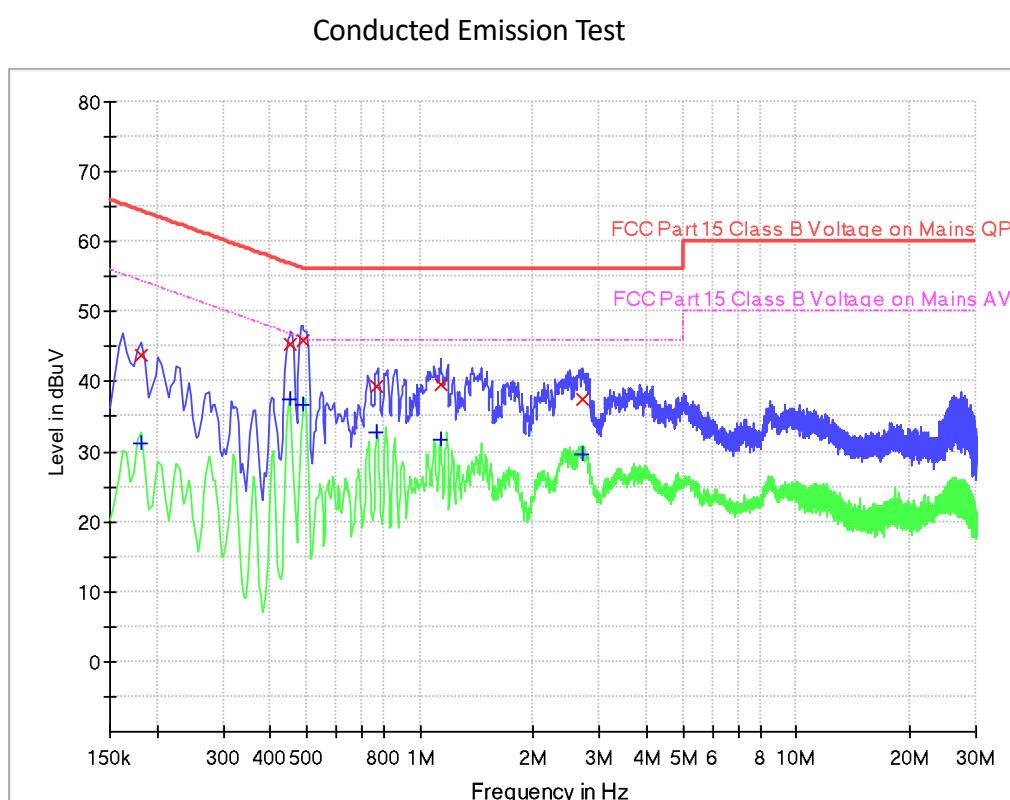
Date of Test: 05 June 2025

Model: FORT 1

Worst Case Operating Mode:

Transmit (5190MHz)

Phase: Live



Limit and Margin QP

| Frequency (MHz) | Quasi Peak (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|-------------------------|-----------------|------|------------|-------------|--------------------|
| 0.182000 | 43.7 | 9.000 | L1 | 9.6 | 20.7 | 64.4 |
| 0.450000 | 45.3 | 9.000 | L1 | 9.5 | 11.6 | 56.9 |
| 0.490000 | 46.0 | 9.000 | L1 | 9.5 | 10.2 | 56.2 |
| 0.770000 | 39.4 | 9.000 | L1 | 9.4 | 16.6 | 56.0 |
| 1.134000 | 39.5 | 9.000 | L1 | 9.4 | 16.5 | 56.0 |
| 2.690000 | 37.5 | 9.000 | L1 | 9.4 | 18.5 | 56.0 |

Limit and Margin AV

| Frequency (MHz) | Average (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|----------------------|-----------------|------|------------|-------------|--------------------|
| 才 | 31.3 | 9.000 | L1 | 9.6 | 23.1 | 54.4 |
| 0.450000 | 37.6 | 9.000 | L1 | 9.5 | 9.3 | 46.9 |
| 0.490000 | 36.7 | 9.000 | L1 | 9.5 | 9.5 | 46.2 |
| 0.770000 | 32.8 | 9.000 | L1 | 9.4 | 13.2 | 46.0 |
| 1.134000 | 31.8 | 9.000 | L1 | 9.4 | 14.2 | 46.0 |
| 2.690000 | 29.7 | 9.000 | L1 | 9.4 | 16.3 | 46.0 |

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = Limit (dB μ V) - Level (dB μ V)

Applicant: DOKE COMMUNICATION (HK) LIMITED

Date of Test: 05 June 2025

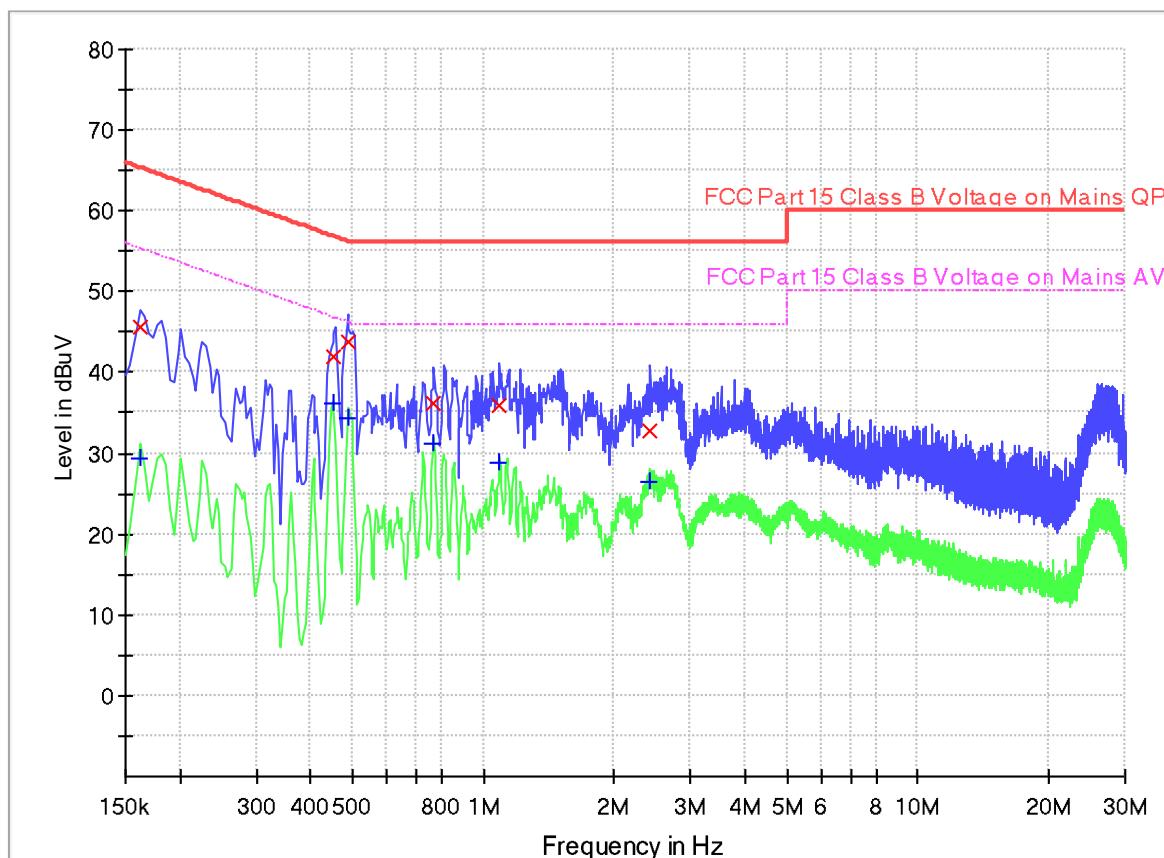
Model: FORT 1

Worst Case Operating Mode:

Transmit (5190MHz)

Phase: Neutral

Conducted Emission Test



Limit and Margin QP

| Frequency (MHz) | Quasi Peak (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|-------------------------|-----------------|------|------------|-------------|--------------------|
| 0.162000 | 45.7 | 9.000 | N | 9.6 | 19.7 | 65.4 |
| 0.450000 | 42.0 | 9.000 | N | 9.6 | 14.9 | 56.9 |
| 0.486000 | 43.9 | 9.000 | N | 9.6 | 12.3 | 56.2 |
| 0.770000 | 36.1 | 9.000 | N | 9.6 | 19.9 | 56.0 |
| 1.090000 | 36.0 | 9.000 | N | 9.5 | 20.0 | 56.0 |
| 2.426000 | 32.7 | 9.000 | N | 9.6 | 23.3 | 56.0 |

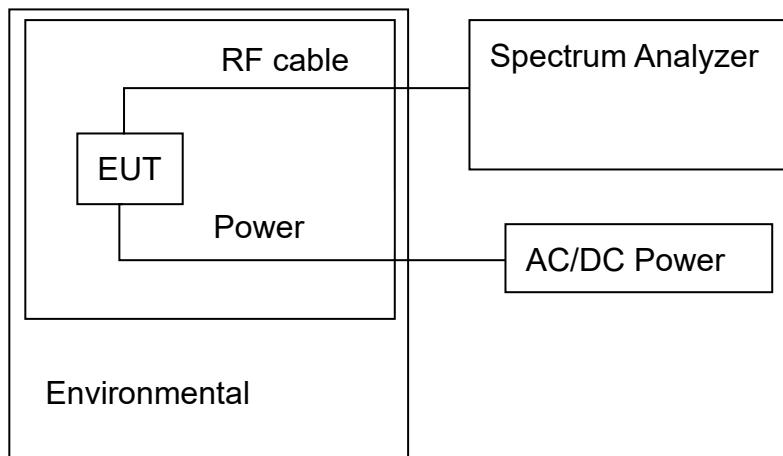
Limit and Margin AV

| Frequency (MHz) | Average (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|----------------------|-----------------|------|------------|-------------|--------------------|
| 0.162000 | 29.3 | 9.000 | N | 9.6 | 26.1 | 55.4 |
| 0.450000 | 36.2 | 9.000 | N | 9.6 | 10.7 | 46.9 |
| 0.486000 | 34.4 | 9.000 | N | 9.6 | 11.8 | 46.2 |
| 0.770000 | 31.3 | 9.000 | N | 9.6 | 14.7 | 46.0 |
| 1.090000 | 29.0 | 9.000 | N | 9.5 | 17.0 | 46.0 |
| 2.426000 | 26.4 | 9.000 | N | 9.6 | 19.6 | 46.0 |

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

 2. Margin (dB) = Limit (dB μ V) – Level (dB μ V)

8. Frequency Stability Test**8.1 Test setup & procedure**

Note1: The frequency stability is measured with the temperature variation range of -20°C to +60°C, and voltage supply variation range of 85% to 115% of nominal DC supply voltage.

Note2: To ensure emission at the band-edge is maintained within the authorized band, the frequency 802.11a/n-HT20/n-HT40/ac-HT20/HT40/HT80 channel 36, 40, 48, 149, 157, 165, 38, 46, 151, 159, 42, 155 are selected to test and the worst case was reported.

8.2 Frequency Stability Test Data

20°C is taken as temperature in normal condition (NT).

3.85 VDC is normal voltage (NV)

3.60 VDC is low voltage (LV)

4.40 VDC is high voltage (HV)

The more detail please refer to Appendix D of "250522061SZN-004_Appendix".

Note: All emissions are maintained within the band of operation under all conditions of normal operation as specified in the user manual. It fulfills the requirement of 15.407(g).

Appendix A: Test equipment list

| Equipment No. | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due Date |
|---------------|--|-----------------|--------------|--------------------|------------|------------|
| SZ182-02 | RF Power Meter | Anritsu | ML2496A | 1302005 | 2025-04-21 | 2026-04-21 |
| SZ182-02-01 | Power Sensor | Anritsu | MA2411B | 1207429 | 2025-04-21 | 2026-04-21 |
| SZ061-13 | BiConiLog Antenna | ETS | 3142E | 00217919 | 2022-07-13 | 2025-07-13 |
| SZ061-06 | Active Loop Antenna | Electro-Metrics | EM-6876 | 217 | 2024-05-05 | 2027-05-05 |
| SZ185-03 | EMI Receiver | R&S | ESR7 | 101975 | 2025-04-13 | 2026-04-13 |
| SZ061-08 | Double - Ridged Waveguide Horn Antenna | ETS | 3115 | 00092346 | 2024-09-13 | 2027-09-13 |
| SZ056-06 | Signal Analyzer | R&S | FSV 40 | 101101 | 2024-12-06 | 2025-12-06 |
| SZ181-08 | Microwave System Amplifier | keysight | 83017A | MY57280108 | 2024-07-29 | 2025-07-29 |
| SZ188-05 | Anechoic Chamber | ETS | FACT 3-2.0 | CT001880-Q13914102 | 2021-05-25 | 2026-05-25 |
| SZ062-02 | RF Cable | RADIALL | RG 213U | -- | 2025-05-01 | 2025-11-01 |
| SZ062-05 | RF Cable | RADIALL | 0.04-26.5GHz | 0833254 | 2025-05-01 | 2025-11-01 |
| SZ062-12 | RF Cable | RADIALL | 0.04-26.5GHz | 083387 | 2025-05-01 | 2025-11-01 |
| SZ185-02 | EMI Test Receiver | R&S | ESCI | 100692 | 2024-07-09 | 2025-07-09 |
| SZ187-02 | Two-Line V-Network | R&S | ENV216 | 100073 | 2025-04-25 | 2026-04-25 |
| SZ188-03 | Shielding Room | ETS | RFD-100 | 4100 | 2022-12-20 | 2025-12-20 |
| SZ062-16 | RF Cable | HUBER+SUHNER | CBL2-BN-1m | 110127-2231000 | 2024-07-10 | 2025-07-10 |

Expanded uncertainty of radiated emission measurement is ± 4.9 dB.Expanded uncertainty of conducted emission measurement is ± 3.2 dB.

***** End of Report*****