

8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917 and 90.691

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Part 90.691(a):

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz
(Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average(WCDMA, LTE, 5G NR), Max hold(GSM);

NOTE1

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

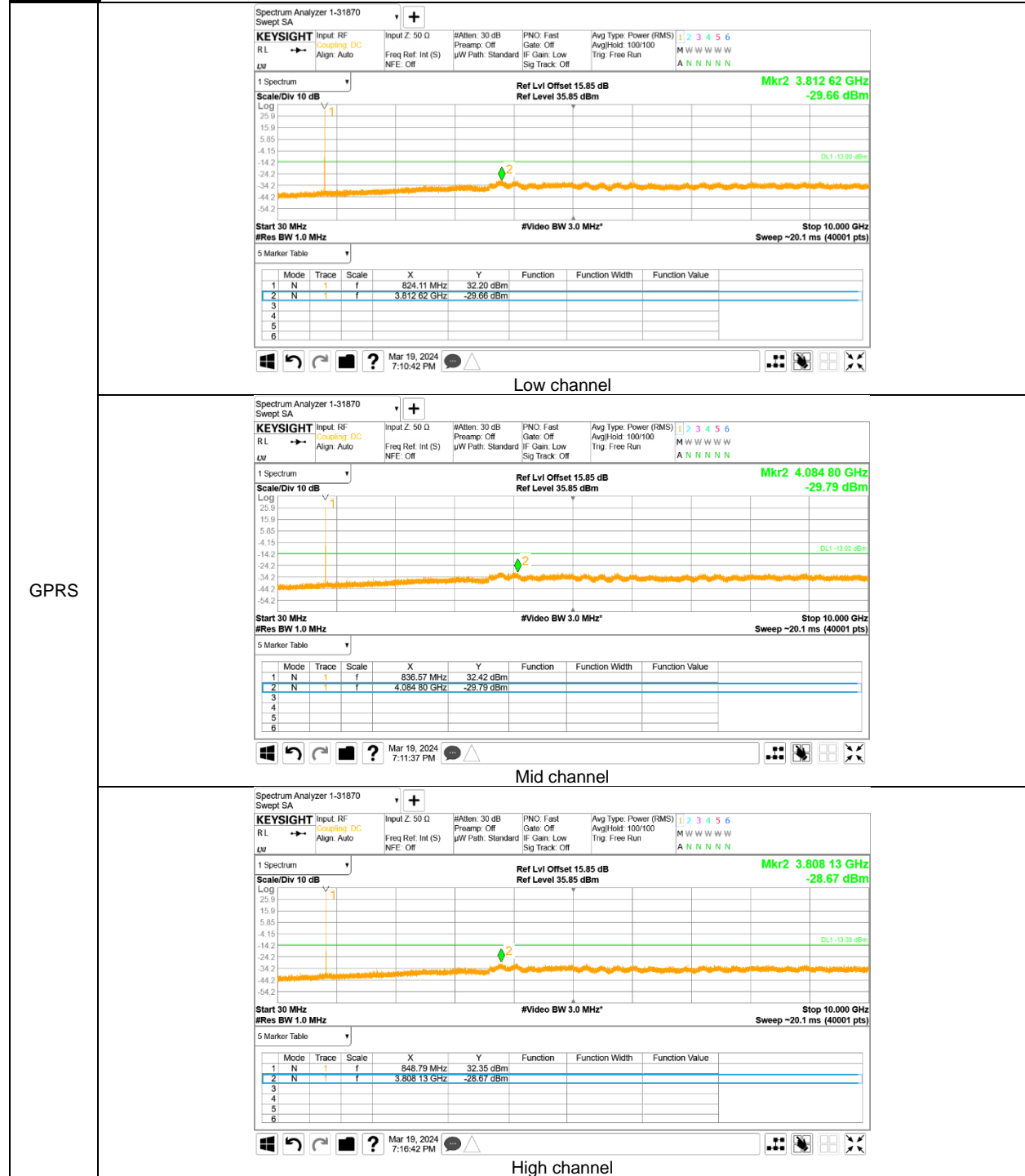
Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS

See the following pages.

8.5.1. OUT OF BAND EMISSIONS RESULT

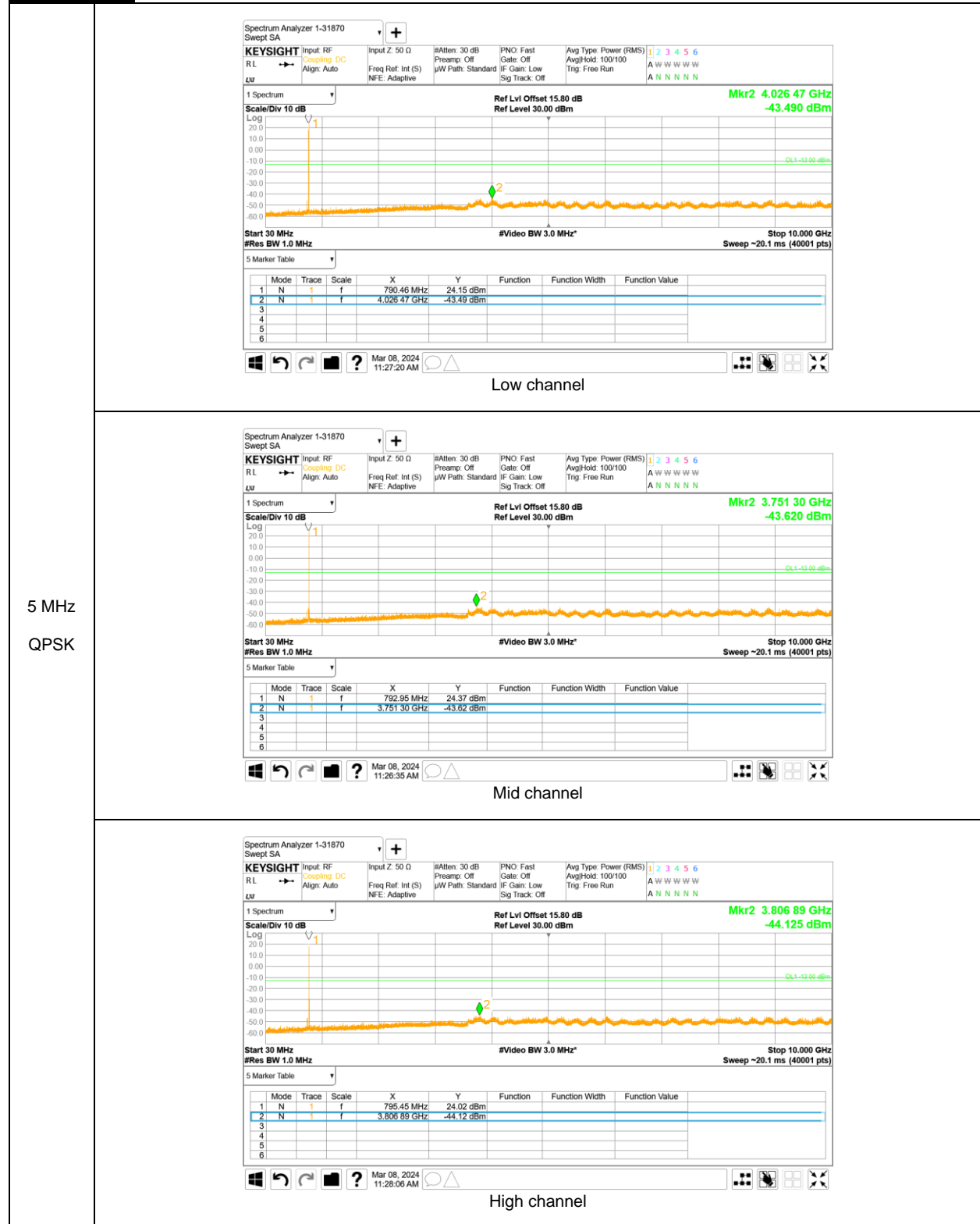
GSM 850



WCDMA Band 5



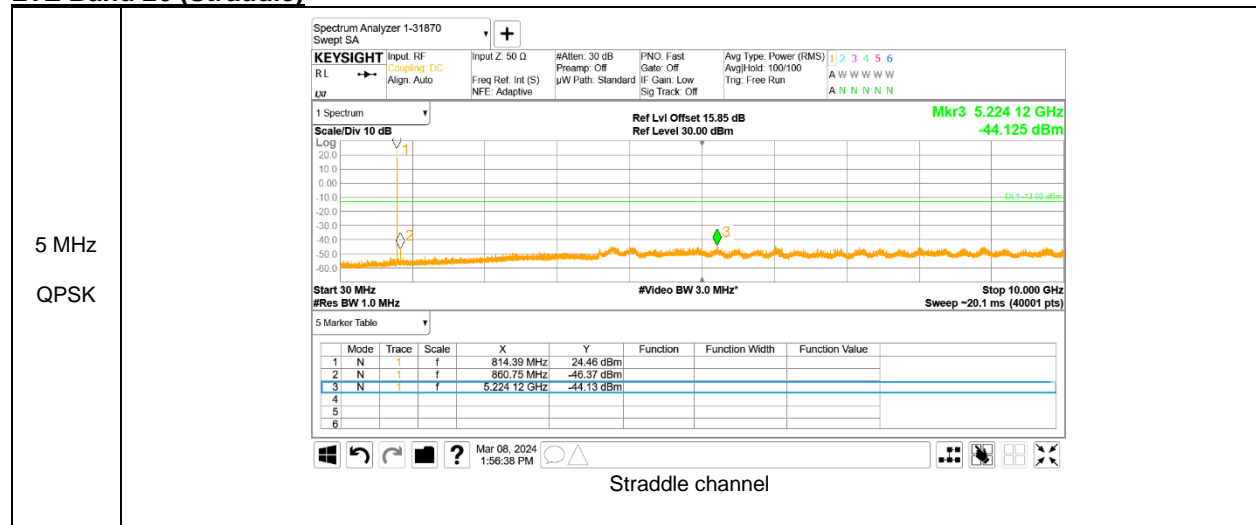
LTE Band 14



LTE Band 26(Part 90)



LTE Band 26 (Straddle)

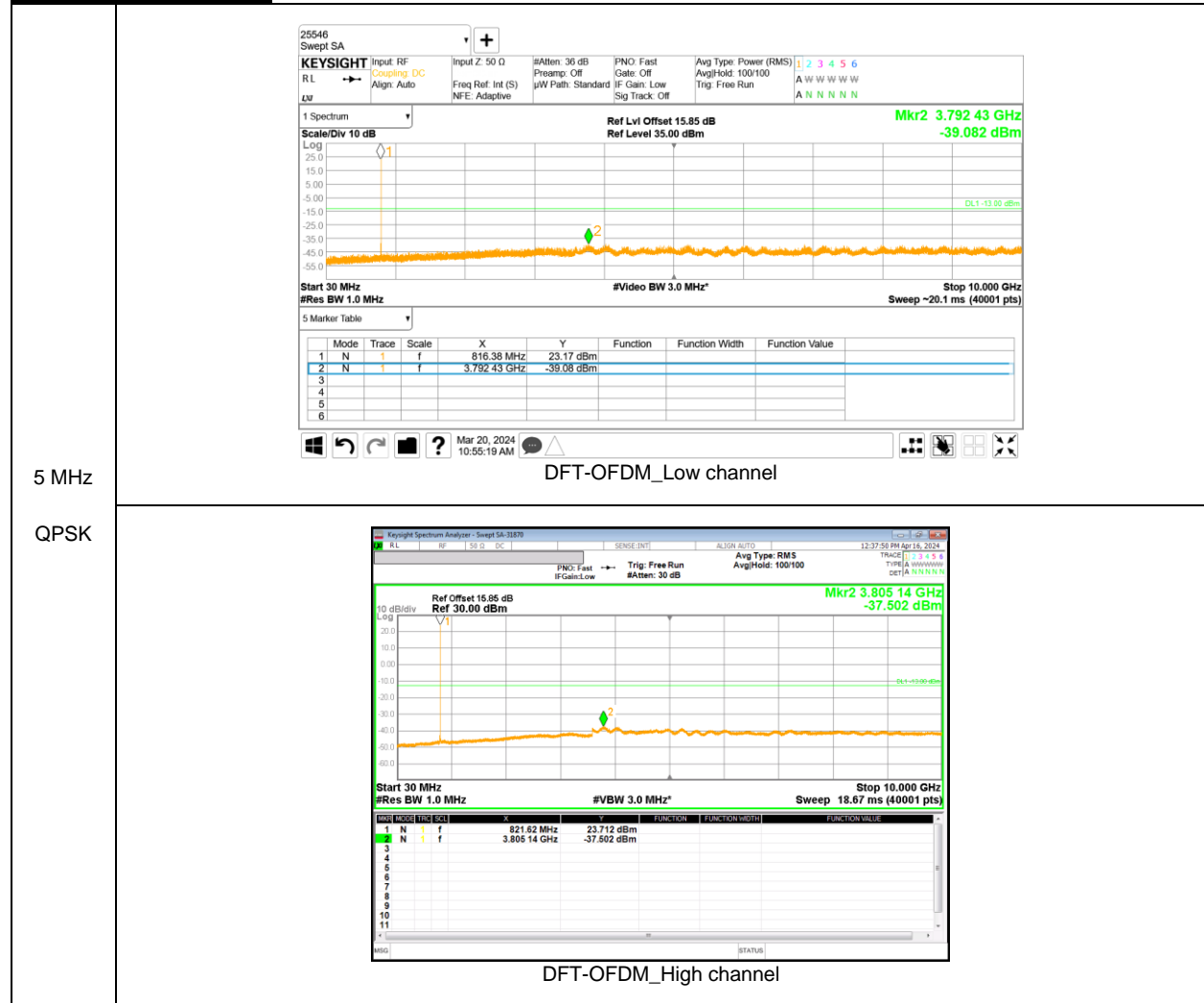


LTE Band 26 (Part 22)

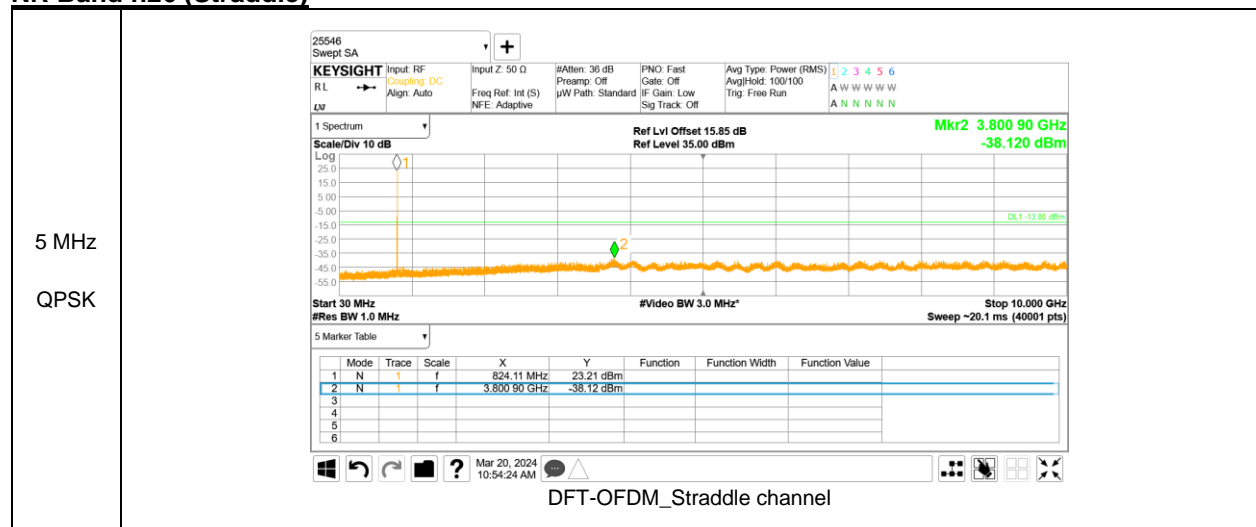


10 MHz
 QPSK

NR Band n26(Part 90)



NR Band n26 (Straddle)



NR Band n26 (Part 22)



8.6. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355 and §90.213

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§90.213 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

NOTE

Test were performed each lowest or highest frequency on the modulation condition of more wide bandwidth.(Please refer to OBW results)

RESULTS

See the following pages.

8.6.1. FREQUENCY STABILITY RESULTS

GSM 850, Channel 128/251, Frequency 824.2/848.8 MHz

| | |
|---------------|------------|
| Test Date | 2024-03-04 |
| Test Engineer | 31870 |

| Reference Frequency : GSM850 Low Channel 824.2 MHz / High Channel 848.8 MHz @ 20°C | | | | | | | |
|--|------------------------------|---|--------------|---------------------|--------------|-------------|----|
| Limit: +/- 2.5 ppm = | | Low Channel | 2060.500 | Hz | High Channel | 2122.000 | Hz |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | | | Limit [ppm] | |
| | | Low Channel | | High Channel | | | |
| | | [MHz] | Delta [ppm] | [MHz] | Delta [ppm] | | |
| 3.88 | 50 | 824.20002312 | 0.002 | 848.80002284 | 0.003 | 2.5 | |
| 3.88 | 40 | 824.20002535 | 0.000 | 848.80002361 | 0.003 | 2.5 | |
| 3.88 | 30 | 824.20002366 | 0.002 | 848.80003123 | -0.006 | 2.5 | |
| 3.88 | 20 | 824.20002514 | 0.000 | 848.80002574 | 0.000 | 2.5 | |
| 3.88 | 10 | 824.20002719 | -0.002 | 848.80003312 | -0.009 | 2.5 | |
| 3.88 | 0 | 824.20003122 | -0.007 | 848.80003285 | -0.008 | 2.5 | |
| 3.88 | -10 | 824.20003515 | -0.012 | 848.80002471 | 0.001 | 2.5 | |
| 3.88 | -20 | 824.20002318 | 0.002 | 848.80002396 | 0.002 | 2.5 | |
| 3.88 | -30 | 824.20002577 | -0.001 | 848.80003384 | -0.010 | 2.5 | |

| Reference Frequency : GSM850 Low Channel 824.2 MHz / High Channel 848.8 MHz @ 20°C | | | | | | | |
|--|------------------------------|---|-------------|---------------------|--------------|-------------|----|
| Limit: +/- 2.5 ppm = | | Low Channel | 2060.500 | Hz | High Channel | 2122.000 | Hz |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | | | Limit [ppm] | |
| | | Low Channel | | High Channel | | | |
| | | [MHz] | Delta [ppm] | [MHz] | Delta [ppm] | | |
| 3.88 | 20 | 824.20002514 | 0 | 848.80002574 | 0 | 2.5 | |
| 4.45 | 20 | 824.20002012 | 0.006 | 848.80002122 | 0.005 | 2.5 | |
| 3.70 | 20 | 824.20002255 | 0.003 | 848.80002331 | 0.003 | 2.5 | |

WCDMA Band 5

| | |
|---------------|------------|
| Test Date | 2024-03-11 |
| Test Engineer | 31870 |

| Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20°C | | | | | | | |
|--|------------------------------|---|--------------|---------------------|--------------|-------------|----|
| Limit: +/- 2.5 ppm = | | Low Channel | 2066.000 | Hz | High Channel | 2116.500 | Hz |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | | | Limit [ppm] | |
| | | Low Channel | | High Channel | | | |
| | | [MHz] | Delta [ppm] | [MHz] | Delta [ppm] | | |
| 3.88 | 50 | 826.40001121 | 0.002 | 846.60001263 | 0.001 | 2.5 | |
| 3.88 | 40 | 826.40000954 | 0.004 | 846.60000774 | 0.007 | 2.5 | |
| 3.88 | 30 | 826.40001038 | 0.003 | 846.60000841 | 0.006 | 2.5 | |
| 3.88 | 20 | 826.40001312 | 0.000 | 846.60001366 | 0.000 | 2.5 | |
| 3.88 | 10 | 826.40001401 | -0.001 | 846.60001254 | 0.001 | 2.5 | |
| 3.88 | 0 | 826.40000681 | 0.008 | 846.60000998 | 0.004 | 2.5 | |
| 3.88 | -10 | 826.40000524 | 0.010 | 846.60000712 | 0.008 | 2.5 | |
| 3.88 | -20 | 826.40000466 | 0.010 | 846.60001064 | 0.004 | 2.5 | |
| 3.88 | -30 | 826.40000997 | 0.004 | 846.60001228 | 0.002 | 2.5 | |

| Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20°C | | | | | | | |
|--|------------------------------|---|-------------|---------------------|--------------|-------------|----|
| Limit: +/- 2.5 ppm = | | Low Channel | 2066.000 | Hz | High Channel | 2116.500 | Hz |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | | | Limit [ppm] | |
| | | Low Channel | | High Channel | | | |
| | | [MHz] | Delta [ppm] | [MHz] | Delta [ppm] | | |
| 3.88 | 20 | 826.40001312 | 0 | 846.60001366 | 0 | 2.5 | |
| 4.45 | 20 | 826.40000971 | 0.004 | 846.60000854 | 0.006 | 2.5 | |
| 3.70 | 20 | 826.40001123 | 0.002 | 846.60001075 | 0.003 | 2.5 | |

LTE Band 14 (Lowest Frequency: 16QAM / Highest Frequency: QPSK)

| | |
|---------------|------------|
| Test Date | 2024-03-13 |
| Test Engineer | 31870 |

| Limit | | 788 | 798 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|--------------------|---------------------|------------|---------------------------|
| Condition | | F low @ End of OBW | F high @ End of OBW | | |
| Temperature | Voltage | (MHz) | (MHz) | | |
| Normal (20C) | Normal | 788.2523 | 797.7513 | 22.5 | 0.028 |
| Extreme (50C) | | 788.2523 | 797.7513 | | |
| Extreme (40C) | | 788.2523 | 797.7513 | | |
| Extreme (30C) | | 788.2523 | 797.7513 | | |
| Extreme (10C) | | 788.2523 | 797.7513 | | |
| Extreme (0C) | | 788.2523 | 797.7513 | | |
| Extreme (-10C) | | 788.2523 | 797.7513 | | |
| Extreme (-20C) | | 788.2523 | 797.7513 | | |
| Extreme (-30C) | | 788.2523 | 797.7513 | | |
| 20C | 15% | 788.2523 | 797.7513 | 12.2 | 0.015 |
| | -15% | 788.2523 | 797.7513 | 10.5 | 0.013 |
| | End Point | 788.2523 | 797.7513 | 7.7 | 0.010 |

LTE Band 26

| | |
|---------------|------------|
| Test Date | 2024-03-11 |
| Test Engineer | 31870 |

| Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C | | | | | | |
|---|------------------------------|---|--------------|---------------------|--------------|-------------|
| Limit: +- 2.5 ppm = | | Low Channel | 2036.750 Hz | High Channel | 2120.750 Hz | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | | | Limit [ppm] |
| | | Low Channel | | High Channel | | |
| | | [MHz] | Delta [ppm] | [MHz] | Delta [ppm] | |
| 3.88 | 50 | 814.70001289 | -0.006 | 848.30001457 | -0.011 | 2.5 |
| 3.88 | 40 | 814.70001430 | -0.007 | 848.30001527 | -0.011 | 2.5 |
| 3.88 | 30 | 814.70000589 | 0.003 | 848.30000803 | -0.003 | 2.5 |
| 3.88 | 20 | 814.70000835 | 0.000 | 848.30000558 | 0.000 | 2.5 |
| 3.88 | 10 | 814.70000790 | 0.001 | 848.30000580 | 0.000 | 2.5 |
| 3.88 | 0 | 814.70001271 | -0.005 | 848.30000692 | -0.002 | 2.5 |
| 3.88 | -10 | 814.70001972 | -0.014 | 848.30000604 | -0.001 | 2.5 |
| 3.88 | -20 | 814.70000727 | 0.001 | 848.30000704 | -0.002 | 2.5 |
| 3.88 | -30 | 814.70000759 | 0.001 | 848.30000604 | -0.001 | 2.5 |

| Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C | | | | | | |
|---|------------------------------|---|-------------|---------------------|-------------|-------------|
| Limit: +- 2.5 ppm = | | Low Channel | 2036.750 Hz | High Channel | 2120.750 Hz | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | | | Limit [ppm] |
| | | Low Channel | | High Channel | | |
| | | [MHz] | Delta [ppm] | [MHz] | Delta [ppm] | |
| 3.88 | 20 | 814.70000835 | 0 | 848.30000558 | 0 | 2.5 |
| 4.45 | 20 | 814.70000567 | 0.003 | 848.30000497 | 0.001 | 2.5 |
| 3.70 | 20 | 814.70001295 | -0.006 | 848.30000979 | -0.005 | 2.5 |

NR Band n26

| | |
|---------------|------------|
| Test Date | 2024-03-22 |
| Test Engineer | 31870 |

| Reference Frequency : Low Channel 816.5 MHz / High Channel 846.5 MHz @ 20°C | | | | | | | |
|---|------------------------------|---|--------------|---------------------|--------------|------------|-------------|
| Limit: +/- 2.5 ppm = | | Low Channel | 2041.250 | Hz | High Channel | 2116.250 | Hz |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | | | | Limit [ppm] |
| | | Low Channel | | High Channel | | | |
| | | [MHz] | Delta [ppm] | [MHz] | Delta [ppm] | | |
| 3.88 | 50 | 816.50004163 | -0.020 | 846.50003255 | -0.007 | 2.5 | |
| 3.88 | 40 | 816.50003325 | -0.010 | 846.50003663 | -0.012 | 2.5 | |
| 3.88 | 30 | 816.50003163 | -0.008 | 846.50001133 | 0.018 | 2.5 | |
| 3.88 | 20 | 816.50002511 | 0.000 | 846.50002652 | 0.000 | 2.5 | |
| 3.88 | 10 | 816.50001163 | 0.017 | 846.5000725 | 0.023 | 2.5 | |
| 3.88 | 0 | 816.50001985 | 0.006 | 846.50001271 | 0.016 | 2.5 | |
| 3.88 | -10 | 816.50002022 | 0.006 | 846.50003454 | -0.009 | 2.5 | |
| 3.88 | -20 | 816.50002677 | -0.002 | 846.50001691 | 0.011 | 2.5 | |
| 3.88 | -30 | 816.50001483 | 0.013 | 846.50000953 | 0.020 | 2.5 | |

| Reference Frequency : Low Channel 816.5 MHz / High Channel 846.5 MHz @ 20°C | | | | | | | |
|---|------------------------------|---|-------------|--------------|--------------|----------|-------------|
| Limit: +/- 2.5 ppm = | | Low Channel | 2041.250 | Hz | High Channel | 2116.250 | Hz |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | | | | Limit [ppm] |
| | | Low Channel | | High Channel | | | |
| | | [MHz] | Delta [ppm] | [MHz] | Delta [ppm] | | |
| 3.88 | 20 | 816.50002511 | 0 | 846.50002652 | 0 | 2.5 | |
| 4.45 | 20 | 816.50000422 | 0.026 | 846.50001321 | 0.016 | 2.5 | |
| 3.70 | 20 | 816.50001674 | 0.010 | 846.50001129 | 0.018 | 2.5 | |

9. RADIATED RESULTS

9.1. RADIATED POWER (ERP)

RULE PART(S)

FCC: §2.1046, §22.913, §90.542 and §90.635

LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

90.542(a)(7) - Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

90.635(b) The maximum output power of the transmitter for mobile stations is 100 watts (20dBw).

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.17; ESU40 setting reference to 971168 D01 v03r01

For radiated output power measurement with a ESU40:

- a) Set the RBW \geq OBW;
- b) Set VBW \geq 3 \times RBW;
- c) Set span \geq 2 \times RBW;
- d) Sweep time = auto couple or 1 second;
- e) Detector = rms;
- f) Ensure that the number of measurement points \geq span/RBW;
- g) Trace mode = max hold(GSM, WCDMA), average(LTE, 5G NR);

TEST RESULTS

See the following pages.

9.1.1. ERP Results

GSM

| Band | Mode | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) |
|--------------------|-------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|
| GSM 850 ANT A+B | GPRS | 824.20 | 33.71 | H | 3.01 | -1.03 | 29.67 | 926.83 | 38.50 | -8.83 |
| | | 836.60 | 33.54 | H | 3.03 | -0.97 | 29.55 | 901.57 | 38.50 | -8.95 |
| | | 848.80 | 33.86 | H | 3.05 | -0.91 | 29.90 | 977.24 | 38.50 | -8.60 |
| | EGPRS | 824.20 | 28.62 | H | 3.01 | -1.03 | 24.58 | 287.08 | 38.50 | -13.92 |
| | | 836.60 | 28.57 | H | 3.03 | -0.97 | 24.58 | 287.08 | 38.50 | -13.92 |
| | | 848.80 | 28.56 | H | 3.05 | -0.91 | 24.60 | 288.40 | 38.50 | -13.90 |
| GSM 850 ANT A | GPRS | 824.20 | 27.92 | H | 3.01 | -1.03 | 23.88 | 244.34 | 38.50 | -14.62 |
| | | 836.60 | 27.34 | H | 3.03 | -0.97 | 23.35 | 216.27 | 38.50 | -15.15 |
| | | 848.80 | 26.68 | H | 3.05 | -0.91 | 22.72 | 187.07 | 38.50 | -15.78 |
| | EGPRS | 824.20 | 22.90 | H | 3.01 | -1.03 | 18.86 | 76.91 | 38.50 | -19.64 |
| | | 836.60 | 22.78 | H | 3.03 | -0.97 | 18.79 | 75.68 | 38.50 | -19.71 |
| | | 848.80 | 21.50 | H | 3.05 | -0.91 | 17.54 | 56.75 | 38.50 | -20.96 |
| GSM 850 ANT D | GPRS | 824.20 | 31.11 | H | 3.01 | -1.03 | 27.07 | 509.33 | 38.50 | -11.43 |
| | | 836.60 | 30.76 | H | 3.03 | -0.97 | 26.77 | 475.34 | 38.50 | -11.73 |
| | | 848.80 | 30.45 | H | 3.05 | -0.91 | 26.49 | 445.66 | 38.50 | -12.01 |
| | EGPRS | 824.20 | 26.32 | H | 3.01 | -1.03 | 22.28 | 169.04 | 38.50 | -16.22 |
| | | 836.60 | 25.65 | H | 3.03 | -0.97 | 21.66 | 146.55 | 38.50 | -16.84 |
| | | 848.80 | 25.46 | H | 3.05 | -0.91 | 21.50 | 141.25 | 38.50 | -17.00 |

WCDMA

| Band | Mode | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) |
|-------------------|-------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|
| Band 5 ANT A+B | REL99 | 826.40 | 26.62 | H | 3.01 | -1.02 | 22.59 | 181.55 | 38.50 | -15.91 |
| | | 836.60 | 26.35 | H | 3.03 | -0.97 | 22.36 | 172.19 | 38.50 | -16.14 |
| | | 846.60 | 26.63 | H | 3.05 | -0.92 | 22.67 | 184.93 | 38.50 | -15.83 |
| | HSDPA | 826.40 | 25.27 | H | 3.01 | -1.02 | 21.24 | 133.05 | 38.50 | -17.26 |
| | | 836.60 | 25.51 | H | 3.03 | -0.97 | 21.52 | 141.91 | 38.50 | -16.98 |
| | | 846.60 | 25.77 | H | 3.05 | -0.92 | 21.81 | 151.71 | 38.50 | -16.69 |
| Band 5 ANT A | REL99 | 826.40 | 20.13 | H | 3.01 | -1.02 | 16.10 | 40.74 | 38.50 | -22.40 |
| | | 836.60 | 19.82 | H | 3.03 | -0.97 | 15.83 | 38.28 | 38.50 | -22.67 |
| | | 846.60 | 19.20 | H | 3.05 | -0.92 | 15.24 | 33.42 | 38.50 | -23.26 |
| | HSDPA | 826.40 | 19.11 | H | 3.01 | -1.02 | 15.08 | 32.21 | 38.50 | -23.42 |
| | | 836.60 | 18.78 | H | 3.03 | -0.97 | 14.79 | 30.13 | 38.50 | -23.71 |
| | | 846.60 | 18.35 | H | 3.05 | -0.92 | 14.39 | 27.48 | 38.50 | -24.39 |
| Band 5 ANT D | REL99 | 826.40 | 22.81 | H | 3.01 | -1.02 | 18.78 | 75.51 | 38.50 | -19.72 |
| | | 836.60 | 22.11 | H | 3.03 | -0.97 | 18.12 | 64.86 | 38.50 | -20.38 |
| | | 846.60 | 21.61 | H | 3.05 | -0.92 | 17.65 | 58.21 | 38.50 | -20.85 |
| | HSDPA | 826.40 | 21.71 | H | 3.01 | -1.02 | 17.68 | 58.61 | 38.50 | -20.82 |
| | | 836.60 | 20.93 | H | 3.03 | -0.97 | 16.94 | 49.43 | 38.50 | -21.56 |
| | | 846.60 | 20.62 | H | 3.05 | -0.92 | 16.66 | 46.34 | 38.50 | -21.66 |

LTE Band 14 (ANT A+B)

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 10 | QPSK | 793.00 | 23.70 | H | 2.95 | -1.16 | 19.58 | 90.78 | 34.77 | -15.19 | 1/0 |
| | 16-QAM | 793.00 | 22.69 | H | 2.95 | -1.16 | 18.57 | 71.94 | 34.77 | -16.20 | 1/0 |
| 5 | QPSK | 790.50 | 23.92 | H | 2.95 | -1.17 | 19.80 | 95.50 | 34.77 | -14.97 | 1/12 |
| | | 793.00 | 23.84 | H | 2.95 | -1.16 | 19.72 | 93.76 | 34.77 | -15.05 | 1/12 |
| | | 795.50 | 23.99 | H | 2.96 | -1.16 | 19.87 | 97.05 | 34.77 | -14.90 | 1/12 |
| | | 790.50 | 22.99 | H | 2.95 | -1.17 | 18.87 | 77.09 | 34.77 | -15.90 | 1/12 |
| | 16-QAM | 793.00 | 22.76 | H | 2.95 | -1.16 | 18.64 | 73.11 | 34.77 | -16.13 | 1/12 |
| | | 795.50 | 23.05 | H | 2.96 | -1.16 | 18.93 | 78.16 | 34.77 | -15.84 | 1/12 |

LTE Band 14 (ANT A)

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 10 | QPSK | 793.00 | 19.12 | H | 2.95 | -1.16 | 15.00 | 31.62 | 34.77 | -19.77 | 1/0 |
| | 16-QAM | 793.00 | 18.32 | H | 2.95 | -1.16 | 14.20 | 26.30 | 34.77 | -20.57 | 1/0 |
| 5 | QPSK | 790.50 | 19.00 | H | 2.95 | -1.17 | 14.88 | 30.76 | 34.77 | -19.89 | 1/12 |
| | | 793.00 | 18.86 | H | 2.95 | -1.16 | 14.78 | 30.06 | 34.77 | -19.99 | 1/12 |
| | | 795.50 | 18.64 | H | 2.96 | -1.16 | 14.52 | 28.31 | 34.77 | -20.25 | 1/12 |
| | | 790.50 | 17.94 | H | 2.95 | -1.17 | 13.82 | 24.10 | 34.77 | -20.95 | 1/12 |
| | 16-QAM | 793.00 | 17.76 | H | 2.95 | -1.16 | 13.64 | 23.12 | 34.77 | -21.13 | 1/12 |
| | | 795.50 | 17.49 | H | 2.96 | -1.16 | 13.37 | 21.73 | 34.77 | -21.40 | 1/12 |

LTE Band 14 (ANT D)

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 10 | QPSK | 793.00 | 21.22 | H | 2.95 | -1.16 | 17.10 | 51.29 | 34.77 | -17.67 | 1/0 |
| | 16-QAM | 793.00 | 20.29 | H | 2.95 | -1.16 | 16.17 | 41.40 | 34.77 | -18.60 | 1/0 |
| 5 | QPSK | 790.50 | 21.42 | H | 2.95 | -1.17 | 17.30 | 53.70 | 34.77 | -17.47 | 1/12 |
| | | 793.00 | 21.52 | H | 2.95 | -1.16 | 17.40 | 54.95 | 34.77 | -17.37 | 1/12 |
| | | 795.50 | 20.93 | H | 2.96 | -1.16 | 16.81 | 47.97 | 34.77 | -17.96 | 1/12 |
| | | 790.50 | 20.39 | H | 2.95 | -1.17 | 16.27 | 42.36 | 34.77 | -18.50 | 1/12 |
| | 16-QAM | 793.00 | 20.56 | H | 2.95 | -1.16 | 16.44 | 44.06 | 34.77 | -18.33 | 1/12 |
| | | 795.50 | 20.02 | H | 2.96 | -1.16 | 15.90 | 38.90 | 34.77 | -18.87 | 1/12 |

LTE Band 26 (ANT A+B)

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 15 | QPSK | 821.50 | 25.23 | H | 3.01 | -1.04 | 21.18 | 131.22 | 50.00 | -28.82 | 1/37 |
| | | 831.50 | 25.81 | H | 3.02 | -0.99 | 21.80 | 151.36 | 38.50 | -16.70 | 1/0 |
| | | 836.50 | 26.07 | H | 3.03 | -0.97 | 22.08 | 161.44 | 38.50 | -16.42 | 1/37 |
| | | 841.50 | 26.25 | H | 3.04 | -0.94 | 22.27 | 168.66 | 38.50 | -16.23 | 1/0 |
| | 16-QAM | 821.50 | 24.32 | H | 3.01 | -1.04 | 20.27 | 106.41 | 50.00 | -29.73 | 1/0 |
| | | 831.50 | 24.80 | H | 3.02 | -0.99 | 20.79 | 119.95 | 38.50 | -17.71 | 1/0 |
| | | 836.50 | 25.06 | H | 3.03 | -0.97 | 21.07 | 127.94 | 38.50 | -17.43 | 1/0 |
| | | 841.50 | 25.06 | H | 3.04 | -0.94 | 21.08 | 128.23 | 38.50 | -17.42 | 1/0 |
| 10 | QPSK | 819.00 | 25.14 | H | 3.00 | -1.06 | 21.09 | 128.53 | 50.00 | -28.91 | 1/25 |
| | | 829.00 | 25.91 | H | 3.02 | -1.01 | 21.89 | 154.53 | 38.50 | -16.61 | 1/0 |
| | | 831.50 | 25.99 | H | 3.02 | -0.99 | 21.98 | 157.76 | 38.50 | -16.52 | 1/0 |
| | | 844.00 | 26.19 | H | 3.04 | -0.93 | 22.22 | 166.72 | 38.50 | -16.28 | 1/0 |
| | 16-QAM | 819.00 | 24.19 | H | 3.00 | -1.06 | 20.14 | 103.28 | 50.00 | -29.86 | 1/0 |
| | | 829.00 | 24.80 | H | 3.02 | -1.01 | 20.78 | 119.67 | 38.50 | -17.72 | 1/25 |
| | | 831.50 | 25.21 | H | 3.02 | -0.99 | 21.20 | 131.83 | 38.50 | -17.30 | 1/0 |
| | | 844.00 | 25.18 | H | 3.04 | -0.93 | 21.21 | 132.13 | 38.50 | -17.29 | 1/25 |
| 5 | QPSK | 816.50 | 24.87 | H | 3.00 | -1.07 | 20.80 | 120.23 | 50.00 | -29.20 | 1/0 |
| | | 821.50 | 25.35 | H | 3.01 | -1.04 | 21.30 | 134.90 | 50.00 | -28.70 | 1/0 |
| | | 826.50 | 25.89 | H | 3.01 | -1.02 | 21.86 | 153.46 | 38.50 | -16.64 | 1/12 |
| | | 831.50 | 26.02 | H | 3.02 | -0.99 | 22.01 | 158.85 | 38.50 | -16.49 | 1/0 |
| | 16-QAM | 846.50 | 26.32 | H | 3.05 | -0.92 | 22.36 | 172.19 | 38.50 | -16.14 | 1/12 |
| | | 816.50 | 23.88 | H | 3.00 | -1.07 | 19.81 | 95.72 | 50.00 | -30.19 | 1/0 |
| | | 821.50 | 24.34 | H | 3.01 | -1.04 | 20.29 | 106.91 | 50.00 | -29.71 | 1/12 |
| | | 826.50 | 24.72 | H | 3.01 | -1.02 | 20.69 | 117.22 | 38.50 | -17.81 | 1/24 |
| 3 | QPSK | 831.50 | 25.01 | H | 3.02 | -0.99 | 21.00 | 125.89 | 38.50 | -17.50 | 1/12 |
| | | 846.50 | 25.37 | H | 3.05 | -0.92 | 21.41 | 138.36 | 38.50 | -17.09 | 1/0 |
| | | 815.50 | 24.85 | H | 2.99 | -1.07 | 20.79 | 119.95 | 50.00 | -29.21 | 1/14 |
| | | 822.50 | 25.38 | H | 3.01 | -1.04 | 21.34 | 136.14 | 50.00 | -28.66 | 1/8 |
| | 16-QAM | 825.50 | 25.57 | H | 3.01 | -1.02 | 21.54 | 142.56 | 38.50 | -16.96 | 1/8 |
| | | 831.50 | 25.87 | H | 3.02 | -0.99 | 21.86 | 153.46 | 38.50 | -16.64 | 1/8 |
| | | 847.50 | 26.10 | H | 3.05 | -0.91 | 22.13 | 163.31 | 38.50 | -16.37 | 1/8 |
| | | 815.50 | 23.96 | H | 2.99 | -1.07 | 19.90 | 97.72 | 50.00 | -30.10 | 1/0 |
| 1.4 | QPSK | 822.50 | 24.40 | H | 3.01 | -1.04 | 20.36 | 108.64 | 50.00 | -29.64 | 1/0 |
| | | 825.50 | 24.63 | H | 3.01 | -1.02 | 20.60 | 114.82 | 38.50 | -17.90 | 1/0 |
| | | 831.50 | 24.83 | H | 3.02 | -0.99 | 20.82 | 120.78 | 38.50 | -17.68 | 1/8 |
| | | 847.50 | 24.98 | H | 3.05 | -0.91 | 21.01 | 126.18 | 38.50 | -17.49 | 1/14 |
| | 16-QAM | 814.70 | 24.74 | H | 2.99 | -1.08 | 20.67 | 116.68 | 50.00 | -29.33 | 1/3 |
| | | 823.30 | 25.43 | H | 3.01 | -1.03 | 21.39 | 137.72 | 50.00 | -28.61 | 1/3 |
| | | 824.70 | 25.51 | H | 3.01 | -1.03 | 21.47 | 140.28 | 38.50 | -17.03 | 1/3 |
| | | 831.50 | 25.86 | H | 3.02 | -0.99 | 21.85 | 153.11 | 38.50 | -16.65 | 1/5 |
| 15 | QPSK | 848.30 | 26.09 | H | 3.05 | -0.91 | 22.12 | 162.93 | 38.50 | -16.38 | 1/0 |
| | | 814.70 | 23.73 | H | 2.99 | -1.08 | 19.66 | 92.47 | 50.00 | -30.34 | 1/3 |
| | | 823.30 | 24.33 | H | 3.01 | -1.03 | 20.29 | 106.91 | 50.00 | -29.71 | 1/0 |
| | | 824.70 | 24.39 | H | 3.01 | -1.03 | 20.35 | 108.39 | 38.50 | -18.15 | 1/5 |
| | 16-QAM | 831.50 | 24.82 | H | 3.02 | -0.99 | 20.81 | 120.50 | 38.50 | -17.69 | 1/3 |
| | | 848.30 | 25.16 | H | 3.05 | -0.91 | 21.19 | 131.52 | 38.50 | -17.31 | 1/3 |
| | | QPSK | 25.31 | H | 3.01 | -1.03 | 21.27 | 133.97 | 38.50 | -17.23 | 1/0 |
| | | | 24.36 | H | 3.01 | -1.03 | 20.32 | 107.65 | 38.50 | -18.18 | 1/0 |
| 16-QAM | 25.49 | H | 3.01 | -1.03 | 21.45 | 139.64 | 38.50 | -17.05 | 1/25 | | |
| | 24.54 | H | 3.01 | -1.03 | 20.50 | 112.20 | 38.50 | -18.00 | 1/0 | | |
| 5 | QPSK | 25.56 | H | 3.01 | -1.03 | 21.52 | 141.91 | 38.50 | -16.98 | 1/0 | |
| | 16-QAM | 24.54 | H | 3.01 | -1.03 | 20.50 | 112.20 | 38.50 | -18.00 | 1/0 | |
| 3 | QPSK | 25.47 | H | 3.01 | -1.03 | 21.43 | 139.00 | 38.50 | -17.07 | 1/8 | |
| | 16-QAM | 24.60 | H | 3.01 | -1.03 | 20.56 | 113.76 | 38.50 | -17.94 | 1/0 | |
| 1.4 | QPSK | 25.41 | H | 3.01 | -1.03 | 21.37 | 137.09 | 38.50 | -17.13 | 1/3 | |
| | 16-QAM | 24.38 | H | 3.01 | -1.03 | 20.34 | 108.14 | 38.50 | -18.16 | 1/0 | |

LTE Band 26 (ANT A)

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 15 | QPSK | 821.50 | 19.51 | H | 3.01 | -1.04 | 15.46 | 35.16 | 50.00 | -34.54 | 1/37 |
| | | 831.50 | 19.91 | H | 3.02 | -0.99 | 15.90 | 38.90 | 38.50 | -22.60 | 1/0 |
| | | 836.50 | 19.61 | H | 3.03 | -0.97 | 15.62 | 36.48 | 38.50 | -22.88 | 1/37 |
| | 841.50 | 19.44 | H | 3.04 | -0.94 | 15.46 | 35.16 | 38.50 | -23.04 | 1/0 | |
| | 16-QAM | 821.50 | 18.59 | H | 3.01 | -1.04 | 14.54 | 28.44 | 50.00 | -35.46 | 1/0 |
| | | 831.50 | 19.06 | H | 3.02 | -0.99 | 15.05 | 31.99 | 38.50 | -23.45 | 1/0 |
| 836.50 | | 18.57 | H | 3.03 | -0.97 | 14.58 | 28.71 | 38.50 | -23.92 | 1/0 | |
| 841.50 | 18.45 | H | 3.04 | -0.94 | 14.47 | 27.99 | 38.50 | -24.03 | 1/0 | | |
| 10 | QPSK | 819.00 | 19.46 | H | 3.00 | -1.06 | 15.41 | 34.75 | 50.00 | -34.59 | 1/25 |
| | | 829.00 | 19.94 | H | 3.02 | -1.01 | 15.92 | 39.08 | 38.50 | -22.58 | 1/0 |
| | | 831.50 | 20.08 | H | 3.02 | -0.99 | 16.07 | 40.46 | 38.50 | -22.43 | 1/0 |
| | | 844.00 | 19.16 | H | 3.04 | -0.93 | 15.19 | 33.04 | 38.50 | -23.31 | 1/0 |
| | 16-QAM | 819.00 | 18.12 | H | 3.00 | -1.06 | 14.07 | 25.53 | 50.00 | -35.93 | 1/0 |
| | | 829.00 | 18.97 | H | 3.02 | -1.01 | 14.95 | 31.26 | 38.50 | -23.55 | 1/25 |
| | | 831.50 | 19.14 | H | 3.02 | -0.99 | 15.13 | 32.58 | 38.50 | -23.37 | 1/0 |
| | | 844.00 | 18.35 | H | 3.04 | -0.93 | 14.38 | 27.42 | 38.50 | -24.12 | 1/25 |
| 5 | QPSK | 816.50 | 19.52 | H | 3.00 | -1.07 | 15.45 | 35.08 | 50.00 | -34.55 | 1/0 |
| | | 821.50 | 19.84 | H | 3.01 | -1.04 | 15.79 | 37.93 | 50.00 | -34.21 | 1/0 |
| | | 826.50 | 20.05 | H | 3.01 | -1.02 | 16.02 | 39.99 | 38.50 | -22.48 | 1/12 |
| | | 831.50 | 20.30 | H | 3.02 | -0.99 | 16.29 | 42.56 | 38.50 | -22.21 | 1/0 |
| | | 846.50 | 19.00 | H | 3.05 | -0.92 | 15.04 | 31.92 | 38.50 | -23.46 | 1/12 |
| | 16-QAM | 816.50 | 18.37 | H | 3.00 | -1.07 | 14.30 | 26.92 | 50.00 | -35.70 | 1/0 |
| | | 821.50 | 18.53 | H | 3.01 | -1.04 | 14.48 | 28.05 | 50.00 | -35.52 | 1/12 |
| | | 826.50 | 19.04 | H | 3.01 | -1.02 | 15.01 | 31.70 | 38.50 | -23.49 | 1/24 |
| | | 831.50 | 19.46 | H | 3.02 | -0.99 | 15.45 | 35.08 | 38.50 | -23.05 | 1/12 |
| | | 846.50 | 18.01 | H | 3.05 | -0.92 | 14.05 | 25.41 | 38.50 | -24.45 | 1/0 |
| 3 | QPSK | 815.50 | 19.23 | H | 2.99 | -1.07 | 15.17 | 32.89 | 50.00 | -34.83 | 1/14 |
| | | 822.50 | 19.61 | H | 3.01 | -1.04 | 15.57 | 36.06 | 50.00 | -34.43 | 1/8 |
| | | 825.50 | 19.72 | H | 3.01 | -1.02 | 15.69 | 37.07 | 38.50 | -22.81 | 1/8 |
| | | 831.50 | 20.00 | H | 3.02 | -0.99 | 15.99 | 39.72 | 38.50 | -22.51 | 1/8 |
| | | 847.50 | 18.35 | H | 3.05 | -0.91 | 14.38 | 27.42 | 38.50 | -24.12 | 1/8 |
| | 16-QAM | 815.50 | 18.17 | H | 2.99 | -1.07 | 14.11 | 25.76 | 50.00 | -35.89 | 1/0 |
| | | 822.50 | 18.69 | H | 3.01 | -1.04 | 14.65 | 29.17 | 50.00 | -35.35 | 1/0 |
| | | 825.50 | 19.05 | H | 3.01 | -1.02 | 15.02 | 31.77 | 38.50 | -23.48 | 1/0 |
| | | 831.50 | 19.10 | H | 3.02 | -0.99 | 15.09 | 32.28 | 38.50 | -23.41 | 1/8 |
| | | 847.50 | 17.30 | H | 3.05 | -0.91 | 13.33 | 21.53 | 38.50 | -25.17 | 1/14 |
| 1.4 | QPSK | 814.70 | 19.31 | H | 2.99 | -1.08 | 15.24 | 33.42 | 50.00 | -34.76 | 1/3 |
| | | 823.30 | 19.87 | H | 3.01 | -1.03 | 15.83 | 38.28 | 50.00 | -34.17 | 1/3 |
| | | 824.70 | 19.94 | H | 3.01 | -1.03 | 15.90 | 38.90 | 38.50 | -22.60 | 1/3 |
| | | 831.50 | 20.25 | H | 3.02 | -0.99 | 16.24 | 42.07 | 38.50 | -22.26 | 1/5 |
| | | 848.30 | 18.24 | H | 3.05 | -0.91 | 14.27 | 26.73 | 38.50 | -24.23 | 1/0 |
| | 16-QAM | 814.70 | 18.24 | H | 2.99 | -1.08 | 14.17 | 26.12 | 50.00 | -35.83 | 1/3 |
| | | 823.30 | 18.73 | H | 3.01 | -1.03 | 14.69 | 29.44 | 50.00 | -35.31 | 1/0 |
| | | 824.70 | 18.93 | H | 3.01 | -1.03 | 14.89 | 30.83 | 38.50 | -23.61 | 1/5 |
| | | 831.50 | 19.20 | H | 3.02 | -0.99 | 15.19 | 33.04 | 38.50 | -23.31 | 1/3 |
| | | 848.30 | 16.59 | H | 3.05 | -0.91 | 12.62 | 18.28 | 38.50 | -25.88 | 1/3 |
| 15 | QPSK | 824.00 | 19.94 | H | 3.01 | -1.03 | 15.90 | 38.90 | 38.50 | -35.31 | 1/0 |
| | 16-QAM | | 18.67 | H | 3.01 | -1.03 | 14.63 | 29.04 | 38.50 | -35.31 | 1/0 |
| 10 | QPSK | | 19.82 | H | 3.01 | -1.03 | 15.78 | 37.84 | 38.50 | -35.31 | 1/25 |
| | 16-QAM | | 18.90 | H | 3.01 | -1.03 | 14.86 | 30.62 | 38.50 | -35.31 | 1/0 |
| 5 | QPSK | | 19.74 | H | 3.01 | -1.03 | 15.70 | 37.15 | 38.50 | -35.31 | 1/12 |
| | 16-QAM | | 18.72 | H | 3.01 | -1.03 | 14.68 | 29.38 | 38.50 | -35.31 | 1/24 |
| 3 | QPSK | | 19.83 | H | 3.01 | -1.03 | 15.79 | 37.93 | 38.50 | -35.31 | 1/8 |
| | 16-QAM | | 18.83 | H | 3.01 | -1.03 | 14.79 | 30.13 | 38.50 | -35.31 | 1/8 |
| 1.4 | QPSK | | 19.64 | H | 3.01 | -1.03 | 15.60 | 36.31 | 38.50 | -35.31 | 1/0 |
| | 16-QAM | | 18.67 | H | 3.01 | -1.03 | 14.63 | 29.04 | 38.50 | -35.31 | 1/0 |

LTE Band 26 (ANT D)

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 15 | QPSK | 821.50 | 22.60 | H | 3.01 | -1.04 | 18.55 | 71.61 | 50.00 | -31.45 | 1/0 |
| | | 831.50 | 22.86 | H | 3.02 | -0.99 | 18.85 | 76.74 | 38.50 | -19.65 | 1/0 |
| | | 836.50 | 22.44 | H | 3.03 | -0.97 | 18.45 | 69.98 | 38.50 | -20.05 | 1/74 |
| | | 841.50 | 22.25 | H | 3.04 | -0.94 | 18.27 | 67.14 | 38.50 | -20.23 | 1/37 |
| | 16-QAM | 821.50 | 21.71 | H | 3.01 | -1.04 | 17.66 | 58.34 | 50.00 | -32.34 | 1/0 |
| | | 831.50 | 21.95 | H | 3.02 | -0.99 | 17.94 | 62.23 | 38.50 | -20.56 | 1/0 |
| | | 836.50 | 21.64 | H | 3.03 | -0.97 | 17.65 | 58.21 | 38.50 | -20.85 | 1/0 |
| | | 841.50 | 21.39 | H | 3.04 | -0.94 | 17.41 | 55.08 | 38.50 | -21.09 | 1/37 |
| 10 | QPSK | 819.00 | 22.12 | H | 3.00 | -1.06 | 18.07 | 64.12 | 50.00 | -31.93 | 1/0 |
| | | 829.00 | 22.41 | H | 3.02 | -1.01 | 18.39 | 69.02 | 38.50 | -20.11 | 1/0 |
| | | 831.50 | 21.90 | H | 3.02 | -0.99 | 17.89 | 61.52 | 38.50 | -20.61 | 1/49 |
| | | 844.00 | 21.62 | H | 3.04 | -0.93 | 17.65 | 58.21 | 38.50 | -20.85 | 1/49 |
| | 16-QAM | 819.00 | 21.11 | H | 3.00 | -1.06 | 17.06 | 50.82 | 50.00 | -32.94 | 1/0 |
| | | 829.00 | 21.43 | H | 3.02 | -1.01 | 17.41 | 55.08 | 38.50 | -21.09 | 1/0 |
| | | 831.50 | 20.89 | H | 3.02 | -0.99 | 16.88 | 48.75 | 38.50 | -21.62 | 1/49 |
| | | 844.00 | 20.89 | H | 3.04 | -0.93 | 16.92 | 49.20 | 38.50 | -21.58 | 1/25 |
| 5 | QPSK | 816.50 | 22.28 | H | 3.00 | -1.07 | 18.21 | 66.22 | 50.00 | -31.79 | 1/12 |
| | | 821.50 | 22.32 | H | 3.01 | -1.04 | 18.27 | 67.14 | 50.00 | -31.73 | 1/0 |
| | | 826.50 | 22.36 | H | 3.01 | -1.10 | 18.25 | 66.83 | 38.50 | -20.25 | 1/0 |
| | | 831.50 | 21.96 | H | 3.02 | -1.09 | 17.85 | 60.95 | 38.50 | -20.65 | 1/12 |
| | 16-QAM | 846.50 | 21.67 | H | 3.05 | -1.06 | 17.57 | 57.15 | 38.50 | -20.93 | 1/0 |
| | | 816.50 | 21.10 | H | 3.00 | -1.07 | 17.03 | 50.47 | 50.00 | -32.97 | 1/24 |
| | | 821.50 | 21.25 | H | 3.01 | -1.04 | 17.20 | 52.48 | 50.00 | -32.80 | 1/0 |
| | | 826.50 | 21.56 | H | 3.01 | -1.10 | 17.45 | 55.59 | 38.50 | -21.05 | 1/12 |
| 3 | QPSK | 815.50 | 22.04 | H | 2.99 | -1.07 | 17.98 | 62.81 | 50.00 | -32.02 | 1/0 |
| | | 822.50 | 21.95 | H | 3.01 | -1.04 | 17.91 | 61.80 | 50.00 | -32.09 | 1/8 |
| | | 825.50 | 22.27 | H | 3.01 | -1.02 | 18.24 | 66.68 | 38.50 | -20.26 | 1/8 |
| | | 831.50 | 21.96 | H | 3.02 | -0.99 | 17.95 | 62.37 | 38.50 | -20.55 | 1/0 |
| | 16-QAM | 847.50 | 21.64 | H | 3.05 | -0.91 | 17.67 | 58.48 | 38.50 | -20.83 | 1/14 |
| | | 815.50 | 21.10 | H | 2.99 | -1.07 | 17.04 | 50.58 | 50.00 | -32.96 | 1/0 |
| | | 822.50 | 21.24 | H | 3.01 | -1.04 | 17.20 | 52.48 | 50.00 | -32.80 | 1/0 |
| | | 825.50 | 21.42 | H | 3.01 | -1.02 | 17.39 | 54.83 | 38.50 | -21.11 | 1/14 |
| 1.4 | QPSK | 831.50 | 21.36 | H | 3.02 | -0.99 | 17.35 | 54.33 | 38.50 | -21.15 | 1/0 |
| | | 847.50 | 21.07 | H | 3.05 | -0.91 | 17.10 | 51.29 | 38.50 | -21.40 | 1/8 |
| | | 814.70 | 22.06 | H | 2.99 | -1.08 | 17.99 | 62.95 | 50.00 | -32.01 | 1/5 |
| | | 823.30 | 21.96 | H | 3.01 | -1.03 | 17.92 | 61.94 | 50.00 | -32.08 | 1/3 |
| | 16-QAM | 824.70 | 22.16 | H | 3.01 | -1.03 | 18.12 | 64.86 | 38.50 | -20.38 | 1/3 |
| | | 831.50 | 21.84 | H | 3.02 | -0.99 | 17.83 | 60.67 | 38.50 | -20.67 | 1/3 |
| | | 848.30 | 21.33 | H | 3.05 | -0.91 | 17.36 | 54.45 | 38.50 | -21.14 | 1/0 |
| | | 814.70 | 20.97 | H | 2.99 | -1.08 | 16.90 | 48.98 | 50.00 | -33.10 | 1/0 |
| 3 | QPSK | 823.30 | 20.94 | H | 3.01 | -1.03 | 16.90 | 48.98 | 50.00 | -33.10 | 1/0 |
| | | 824.70 | 21.35 | H | 3.01 | -1.03 | 17.31 | 53.83 | 38.50 | -21.19 | 1/5 |
| | 16-QAM | 831.50 | 20.90 | H | 3.02 | -0.99 | 16.89 | 48.87 | 38.50 | -21.61 | 1/5 |
| | | 848.30 | 20.38 | H | 3.05 | -0.91 | 16.41 | 43.75 | 38.50 | -22.09 | 1/0 |
| 15 | QPSK | 824.00 | 22.40 | H | 3.01 | -1.03 | 18.36 | 68.55 | 38.50 | -35.31 | 1/0 |
| | 16-QAM | | 21.47 | H | 3.01 | -1.03 | 17.43 | 55.34 | 38.50 | -35.31 | 1/0 |
| 10 | QPSK | | 21.94 | H | 3.01 | -1.03 | 17.90 | 61.66 | 38.50 | -35.31 | 1/25 |
| | 16-QAM | | 21.08 | H | 3.01 | -1.03 | 17.04 | 50.58 | 38.50 | -35.31 | 1/0 |
| 5 | QPSK | | 21.89 | H | 3.01 | -1.10 | 17.78 | 59.98 | 38.50 | -35.31 | 1/12 |
| | 16-QAM | | 21.25 | H | 3.01 | -1.10 | 17.14 | 51.76 | 38.50 | -35.31 | 1/24 |
| 3 | QPSK | | 21.86 | H | 3.01 | -1.03 | 17.82 | 60.53 | 38.50 | -35.31 | 1/8 |
| | 16-QAM | | 21.26 | H | 3.01 | -1.03 | 17.22 | 52.72 | 38.50 | -35.31 | 1/8 |
| 1.4 | QPSK | | 21.81 | H | 3.01 | -1.03 | 17.77 | 59.84 | 38.50 | -35.31 | 1/0 |
| | 16-QAM | | 20.97 | H | 3.01 | -1.03 | 16.93 | 49.32 | 38.50 | -35.31 | 1/0 |

NR Band n26 (ANT A+B)

DFT-OFDM

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 20 | QPSK | 834.00 | 24.66 | H | 3.03 | -0.98 | 20.66 | 116.41 | 38.50 | -17.84 | 1/53 |
| | | 836.50 | 24.82 | H | 3.03 | -0.97 | 20.83 | 121.06 | 38.50 | -17.67 | 1/53 |
| | | 839.00 | 25.09 | H | 3.03 | -0.96 | 21.10 | 128.82 | 38.50 | -17.40 | 1/1 |
| | 16-QAM | 834.00 | 23.60 | H | 3.03 | -0.98 | 19.60 | 91.20 | 38.50 | -18.90 | 1/53 |
| | | 836.50 | 23.61 | H | 3.03 | -0.97 | 19.62 | 91.62 | 38.50 | -18.88 | 1/53 |
| | | 839.00 | 23.96 | H | 3.03 | -0.96 | 19.97 | 99.31 | 38.50 | -18.53 | 1/1 |
| 15 | QPSK | 821.50 | 24.17 | H | 3.01 | -1.04 | 20.12 | 102.80 | 50.00 | -29.88 | 1/1 |
| | | 831.50 | 25.04 | H | 3.02 | -0.99 | 21.03 | 126.77 | 38.50 | -17.47 | 1/1 |
| | | 836.50 | 25.03 | H | 3.03 | -0.97 | 21.04 | 127.06 | 38.50 | -17.46 | 1/1 |
| | 16-QAM | 841.50 | 25.07 | H | 3.04 | -0.94 | 21.09 | 128.53 | 38.50 | -17.41 | 1/1 |
| | | 821.50 | 23.20 | H | 3.01 | -1.04 | 19.15 | 82.22 | 50.00 | -30.85 | 1/1 |
| | | 831.50 | 23.97 | H | 3.02 | -0.99 | 19.96 | 99.08 | 38.50 | -18.54 | 1/1 |
| 10 | QPSK | 836.50 | 23.78 | H | 3.03 | -0.97 | 19.79 | 95.28 | 38.50 | -18.71 | 1/1 |
| | | 841.50 | 23.97 | H | 3.04 | -0.94 | 19.99 | 99.77 | 38.50 | -18.51 | 1/1 |
| | | 819.00 | 24.07 | H | 3.00 | -1.06 | 20.02 | 100.46 | 50.00 | -29.98 | 1/1 |
| | 16-QAM | 829.00 | 24.87 | H | 3.02 | -1.01 | 20.85 | 121.62 | 38.50 | -17.65 | 1/1 |
| | | 831.50 | 25.05 | H | 3.02 | -0.99 | 21.04 | 127.06 | 38.50 | -17.46 | 1/1 |
| | | 844.00 | 25.05 | H | 3.04 | -0.93 | 21.08 | 128.23 | 38.50 | -17.42 | 1/1 |
| 5 | QPSK | 819.00 | 22.98 | H | 3.00 | -1.06 | 18.93 | 78.16 | 50.00 | -31.07 | 1/1 |
| | | 829.00 | 23.87 | H | 3.02 | -1.01 | 19.85 | 96.61 | 38.50 | -18.65 | 1/1 |
| | | 831.50 | 24.00 | H | 3.02 | -0.99 | 19.99 | 99.77 | 38.50 | -18.51 | 1/1 |
| | | 844.00 | 23.97 | H | 3.04 | -0.93 | 20.00 | 100.00 | 38.50 | -18.50 | 1/1 |
| | | 816.50 | 23.89 | H | 3.00 | -1.07 | 19.82 | 95.94 | 50.00 | -30.18 | 1/13 |
| | | 821.50 | 24.34 | H | 3.01 | -1.04 | 20.29 | 106.91 | 50.00 | -29.71 | 1/13 |
| | 16-QAM | 826.50 | 24.75 | H | 3.01 | -1.02 | 20.72 | 118.03 | 38.50 | -17.78 | 1/13 |
| | | 831.50 | 25.12 | H | 3.02 | -0.99 | 21.11 | 129.12 | 38.50 | -17.39 | 1/13 |
| | | 846.50 | 24.92 | H | 3.05 | -0.92 | 20.96 | 124.74 | 38.50 | -17.54 | 1/13 |
| | | 816.50 | 22.84 | H | 3.00 | -1.07 | 18.77 | 75.34 | 50.00 | -31.23 | 1/13 |
| | | 821.50 | 23.20 | H | 3.01 | -1.04 | 19.15 | 82.22 | 50.00 | -30.85 | 1/13 |
| | | 826.50 | 23.71 | H | 3.01 | -1.02 | 19.68 | 92.90 | 38.50 | -18.82 | 1/13 |
| 5 | QPSK | 831.50 | 24.02 | H | 3.02 | -0.99 | 20.01 | 100.23 | 38.50 | -18.49 | 1/13 |
| | | 846.50 | 23.76 | H | 3.05 | -0.92 | 19.80 | 95.50 | 38.50 | -18.70 | 1/13 |
| | | 819.00 | 22.98 | H | 3.00 | -1.06 | 18.93 | 78.16 | 50.00 | -31.07 | 1/1 |
| | 16-QAM | 829.00 | 23.87 | H | 3.02 | -1.01 | 19.85 | 96.61 | 38.50 | -18.65 | 1/1 |
| | | 831.50 | 24.00 | H | 3.02 | -0.99 | 19.99 | 99.77 | 38.50 | -18.51 | 1/1 |
| | | 844.00 | 23.97 | H | 3.04 | -0.93 | 20.00 | 100.00 | 38.50 | -18.50 | 1/1 |

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 20 | QPSK | 824.00 | 24.43 | H | 3.01 | -1.03 | 20.39 | 109.40 | 38.50 | -18.11 | 1/53 |
| | 16-QAM | | 23.26 | H | 3.01 | -1.03 | 19.22 | 83.56 | 38.50 | -19.28 | 1/53 |
| 15 | QPSK | | 24.60 | H | 3.01 | -1.03 | 20.56 | 113.76 | 38.50 | -17.94 | 1/1 |
| | 16-QAM | | 23.74 | H | 3.01 | -1.03 | 19.70 | 93.33 | 38.50 | -18.80 | 1/1 |
| 10 | QPSK | | 24.49 | H | 3.01 | -1.03 | 20.45 | 110.92 | 38.50 | -18.05 | 1/26 |
| | 16-QAM | | 23.42 | H | 3.01 | -1.03 | 19.38 | 86.70 | 38.50 | -19.12 | 1/26 |
| 5 | QPSK | | 24.48 | H | 3.01 | -1.03 | 20.44 | 110.66 | 38.50 | -18.06 | 1/13 |
| | 16-QAM | | 23.48 | H | 3.01 | -1.03 | 19.44 | 87.90 | 38.50 | -19.06 | 1/13 |

NR Band n26 (ANT A)

DFT-OFDM

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 20 | QPSK | 834.00 | 19.82 | H | 3.03 | -0.98 | 15.82 | 38.19 | 38.50 | -22.68 | 1/53 |
| | | 836.50 | 19.62 | H | 3.03 | -0.97 | 15.63 | 36.56 | 38.50 | -22.87 | 1/53 |
| | | 839.00 | 19.98 | H | 3.03 | -0.96 | 15.99 | 39.72 | 38.50 | -22.51 | 1/1 |
| | 16-QAM | 834.00 | 18.38 | H | 3.03 | -0.98 | 14.38 | 27.42 | 38.50 | -24.12 | 1/53 |
| | | 836.50 | 18.47 | H | 3.03 | -0.97 | 14.48 | 28.05 | 38.50 | -24.02 | 1/53 |
| | | 839.00 | 18.72 | H | 3.03 | -0.96 | 14.73 | 29.72 | 38.50 | -23.77 | 1/1 |
| 15 | QPSK | 821.50 | 19.03 | H | 3.01 | -1.04 | 14.98 | 31.47 | 50.00 | -35.02 | 1/1 |
| | | 831.50 | 19.67 | H | 3.02 | -0.99 | 15.66 | 36.81 | 38.50 | -22.84 | 1/1 |
| | | 836.50 | 19.67 | H | 3.03 | -0.97 | 15.68 | 36.98 | 38.50 | -22.82 | 1/1 |
| | | 841.50 | 19.60 | H | 3.04 | -0.94 | 15.62 | 36.48 | 38.50 | -22.88 | 1/1 |
| | 16-QAM | 821.50 | 18.09 | H | 3.01 | -1.04 | 14.04 | 25.35 | 50.00 | -35.96 | 1/1 |
| | | 831.50 | 18.58 | H | 3.02 | -0.99 | 14.57 | 28.64 | 38.50 | -23.93 | 1/1 |
| | | 836.50 | 18.61 | H | 3.03 | -0.97 | 14.62 | 28.97 | 38.50 | -23.88 | 1/1 |
| | | 841.50 | 18.66 | H | 3.04 | -0.94 | 14.68 | 29.38 | 38.50 | -23.82 | 1/1 |
| | | 844.00 | 18.72 | H | 3.03 | -0.96 | 14.73 | 29.72 | 38.50 | -23.77 | 1/1 |
| 10 | QPSK | 819.00 | 18.97 | H | 3.00 | -1.06 | 14.92 | 31.05 | 50.00 | -35.08 | 1/1 |
| | | 829.00 | 19.47 | H | 3.02 | -1.01 | 15.45 | 35.08 | 38.50 | -23.05 | 1/1 |
| | | 831.50 | 19.64 | H | 3.02 | -0.99 | 15.63 | 36.56 | 38.50 | -22.87 | 1/1 |
| | | 844.00 | 19.24 | H | 3.04 | -0.93 | 15.27 | 33.65 | 38.50 | -23.23 | 1/1 |
| | 16-QAM | 819.00 | 17.95 | H | 3.00 | -1.06 | 13.90 | 24.55 | 50.00 | -36.10 | 1/1 |
| | | 829.00 | 18.31 | H | 3.02 | -1.01 | 14.29 | 26.85 | 38.50 | -24.21 | 1/1 |
| | | 831.50 | 18.44 | H | 3.02 | -0.99 | 14.43 | 27.73 | 38.50 | -24.07 | 1/1 |
| | | 844.00 | 18.28 | H | 3.04 | -0.93 | 14.31 | 26.98 | 38.50 | -24.19 | 1/1 |
| 5 | QPSK | 816.50 | 19.07 | H | 3.00 | -1.07 | 15.00 | 31.62 | 50.00 | -35.00 | 1/13 |
| | | 821.50 | 19.24 | H | 3.01 | -1.04 | 15.19 | 33.04 | 50.00 | -34.81 | 1/13 |
| | | 826.50 | 19.44 | H | 3.01 | -1.02 | 15.41 | 34.75 | 38.50 | -23.09 | 1/13 |
| | | 831.50 | 19.68 | H | 3.02 | -0.99 | 15.67 | 36.90 | 38.50 | -22.83 | 1/13 |
| | | 846.50 | 18.62 | H | 3.05 | -0.92 | 14.66 | 29.24 | 38.50 | -23.84 | 1/13 |
| | 16-QAM | 816.50 | 18.01 | H | 3.00 | -1.07 | 13.94 | 24.77 | 50.00 | -36.06 | 1/13 |
| | | 821.50 | 18.39 | H | 3.01 | -1.04 | 14.34 | 27.16 | 50.00 | -35.66 | 1/13 |
| | | 826.50 | 18.38 | H | 3.01 | -1.02 | 14.35 | 27.23 | 38.50 | -24.15 | 1/13 |
| | | 831.50 | 18.59 | H | 3.02 | -0.99 | 14.58 | 28.71 | 38.50 | -23.92 | 1/13 |
| | | 846.50 | 17.52 | H | 3.05 | -0.92 | 13.56 | 22.70 | 38.50 | -24.94 | 1/13 |

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 20 | QPSK | 824.00 | 19.36 | H | 3.01 | -1.03 | 15.32 | 34.04 | 38.50 | -23.18 | 1/53 |
| | 16-QAM | | 18.16 | H | 3.01 | -1.03 | 14.12 | 25.82 | 38.50 | -24.38 | 1/53 |
| 15 | QPSK | | 19.14 | H | 3.01 | -1.03 | 15.10 | 32.36 | 38.50 | -23.40 | 1/1 |
| | 16-QAM | | 18.14 | H | 3.01 | -1.03 | 14.10 | 25.70 | 38.50 | -24.40 | 1/1 |
| 10 | QPSK | | 19.47 | H | 3.01 | -1.03 | 15.43 | 34.91 | 38.50 | -23.07 | 1/26 |
| | 16-QAM | | 18.33 | H | 3.01 | -1.03 | 14.29 | 26.85 | 38.50 | -24.21 | 1/26 |
| 5 | QPSK | | 19.22 | H | 3.01 | -1.03 | 15.18 | 32.96 | 38.50 | -23.32 | 1/13 |
| | 16-QAM | | 18.21 | H | 3.01 | -1.03 | 14.17 | 26.12 | 38.50 | -24.33 | 1/13 |

NR Band n26 (ANT D)

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|-------|
| 20 | QPSK | 834.00 | 21.40 | H | 3.03 | -0.98 | 17.39 | 54.83 | 38.50 | -21.11 | 1/53 |
| | | 836.50 | 21.30 | H | 3.03 | -0.97 | 17.30 | 53.70 | 38.50 | -21.20 | 1/1 |
| | | 839.00 | 21.48 | H | 3.03 | -0.96 | 17.49 | 56.10 | 38.50 | -21.01 | 1/104 |
| | 16-QAM | 834.00 | 20.23 | H | 3.03 | -0.98 | 16.22 | 41.88 | 38.50 | -22.28 | 1/53 |
| | | 836.50 | 20.18 | H | 3.03 | -0.97 | 16.18 | 41.50 | 38.50 | -22.32 | 1/1 |
| | | 839.00 | 20.21 | H | 3.03 | -0.96 | 16.22 | 41.88 | 38.50 | -22.28 | 1/104 |
| 15 | QPSK | 821.50 | 21.93 | H | 3.01 | -1.04 | 17.89 | 61.52 | 50.00 | -32.11 | 1/1 |
| | | 831.50 | 21.77 | H | 3.02 | -0.99 | 17.76 | 59.70 | 38.50 | -20.74 | 1/1 |
| | | 836.50 | 21.74 | H | 3.03 | -0.97 | 17.74 | 59.43 | 38.50 | -20.76 | 1/1 |
| | | 841.50 | 21.95 | H | 3.04 | -0.94 | 17.97 | 62.66 | 38.50 | -20.53 | 1/1 |
| | | 821.50 | 20.89 | H | 3.01 | -1.04 | 16.85 | 48.42 | 50.00 | -33.15 | 1/1 |
| | 16-QAM | 831.50 | 20.68 | H | 3.02 | -0.99 | 16.67 | 46.45 | 38.50 | -21.83 | 1/1 |
| | | 836.50 | 20.66 | H | 3.03 | -0.97 | 16.66 | 46.34 | 38.50 | -21.84 | 1/1 |
| | | 841.50 | 20.87 | H | 3.04 | -0.94 | 16.89 | 48.87 | 38.50 | -21.61 | 1/1 |
| | | 819.00 | 22.14 | H | 3.00 | -1.06 | 18.09 | 64.42 | 50.00 | -31.91 | 1/1 |
| | | 829.00 | 21.08 | H | 3.02 | -1.01 | 17.06 | 50.82 | 38.50 | -21.44 | 1/1 |
| 10 | QPSK | 831.50 | 20.86 | H | 3.02 | -0.99 | 16.85 | 48.42 | 38.50 | -21.65 | 1/1 |
| | | 844.00 | 22.06 | H | 3.04 | -0.93 | 18.09 | 64.42 | 38.50 | -20.41 | 1/1 |
| | | 819.00 | 21.00 | H | 3.00 | -1.06 | 16.95 | 49.55 | 50.00 | -33.05 | 1/1 |
| | | 829.00 | 20.16 | H | 3.02 | -1.01 | 16.14 | 41.11 | 38.50 | -22.36 | 1/1 |
| | 16-QAM | 831.50 | 18.99 | H | 3.02 | -0.99 | 14.98 | 31.48 | 38.50 | -23.52 | 1/1 |
| | | 844.00 | 20.85 | H | 3.04 | -0.93 | 16.85 | 48.75 | 38.50 | -21.62 | 1/1 |
| | | 816.50 | 22.12 | H | 3.00 | -1.07 | 18.06 | 63.97 | 50.00 | -31.94 | 1/1 |
| | | 821.50 | 21.75 | H | 3.01 | -1.04 | 17.71 | 59.02 | 50.00 | -32.29 | 1/13 |
| 5 | QPSK | 826.50 | 21.19 | H | 3.01 | -1.02 | 17.15 | 51.88 | 38.50 | -21.35 | 1/1 |
| | | 831.50 | 21.67 | H | 3.02 | -0.99 | 17.66 | 58.34 | 38.50 | -20.84 | 1/13 |
| | | 846.50 | 22.18 | H | 3.05 | -0.92 | 18.22 | 66.37 | 38.50 | -20.28 | 1/23 |
| | | 816.50 | 21.12 | H | 3.00 | -1.07 | 17.06 | 50.82 | 50.00 | -32.94 | 1/1 |
| | 16-QAM | 821.50 | 20.74 | H | 3.01 | -1.04 | 16.70 | 46.77 | 50.00 | -33.30 | 1/13 |
| | | 826.50 | 20.07 | H | 3.01 | -1.02 | 16.03 | 40.09 | 38.50 | -22.47 | 1/1 |
| | | 831.50 | 20.65 | H | 3.02 | -0.99 | 16.64 | 46.13 | 38.50 | -21.86 | 1/13 |
| | | 846.50 | 20.85 | H | 3.05 | -0.92 | 16.89 | 48.87 | 38.50 | -21.61 | 1/23 |

| BW (MHz) | Modulation | f (MHz) | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | ERP (mW) | Limit (dBm) | Delta (dB) | RB |
|----------|------------|---------|------------------|-----------------|-----------------|--------------------|-----------|----------|-------------|------------|------|
| 20 | QPSK | 824.00 | 21.12 | H | 3.01 | -1.03 | 17.08 | 51.07 | 38.50 | -21.42 | 1/1 |
| | 16-QAM | | 20.06 | H | 3.01 | -1.03 | 16.02 | 40.01 | 38.50 | -22.48 | 1/1 |
| 15 | QPSK | | 21.10 | H | 3.01 | -1.03 | 17.06 | 50.84 | 38.50 | -21.44 | 1/40 |
| | 16-QAM | | 20.38 | H | 3.01 | -1.03 | 16.34 | 43.07 | 38.50 | -22.16 | 1/40 |
| 10 | QPSK | | 21.19 | H | 3.01 | -1.03 | 17.15 | 51.90 | 38.50 | -21.35 | 1/26 |
| | 16-QAM | | 21.05 | H | 3.01 | -1.03 | 17.01 | 50.25 | 38.50 | -21.49 | 1/26 |
| 5 | QPSK | | 21.07 | H | 3.01 | -1.03 | 17.03 | 50.49 | 38.50 | -21.47 | 1/13 |
| | 16-QAM | | 20.09 | H | 3.01 | -1.03 | 16.05 | 40.29 | 38.50 | -22.45 | 1/13 |

9.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §22.917, §90.543 and §90.691

LIMIT

Part 22.917(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Part 90.543(c)

On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10 \log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz

Part 90.543(f)

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation

Part 90.691(a):

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01

For peak power measurement with a ESU40:

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points \geq span/RBW;
- g) Trace mode = average(WCDMA, LTE, 5G NR), Maxhold(GSM);

NOTE1

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

NOTE3

For interband ULCA, it was checked in the RSE considering intermodulation, but no additional spurious emissions were founded.

RESULTS

See the following pages.

9.2.1. SPURIOUS RADIATION PLOTS

GSM850

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|---------------------|-----------------------|------------------------------------|----------------|----------------|---------------|----------------|---------------|-------|--|
| | | Company: | Samsung | | | | | | | |
| | | Project #: | 4791196575 | | | | | | | |
| | | Date: | 2024-03-01 | | | | | | | |
| | | Test Engineer: | 24542 | | | | | | | |
| | | Configuration: | EUT / AC Adapter, Z-Position, Open | | | | | | | |
| | | Location: | Chamber 1 | | | | | | | |
| | | Mode: | GPRS 850 MHz Harmonics | | | | | | | |
| | | Test Voltage: | AC 120 V, 60 Hz | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Low Ch, 824.2MHz | | | | | | | | | | |
| 1648.40 | -10.0 | V | 3.0 | 43.3 | 1.0 | -52.3 | -13.0 | -39.3 | | |
| 2472.60 | -8.1 | V | 3.0 | 43.6 | 1.0 | -50.7 | -13.0 | -37.7 | | |
| 3296.80 | -5.4 | V | 3.0 | 43.9 | 1.0 | -48.3 | -13.0 | -35.3 | | |
| 1648.40 | -10.4 | H | 3.0 | 43.3 | 1.0 | -52.8 | -13.0 | -39.8 | | |
| 2472.60 | -3.6 | H | 3.0 | 43.6 | 1.0 | -46.1 | -13.0 | -33.1 | | |
| 3296.80 | -4.2 | H | 3.0 | 43.9 | 1.0 | -47.1 | -13.0 | -34.1 | | |
| Mid Ch, 836.6MHz | | | | | | | | | | |
| 1673.20 | -8.4 | V | 3.0 | 43.3 | 1.0 | -50.7 | -13.0 | -37.7 | | |
| 2509.80 | -6.6 | V | 3.0 | 43.6 | 1.0 | -49.2 | -13.0 | -36.2 | | |
| 3346.40 | -4.5 | V | 3.0 | 43.9 | 1.0 | -47.4 | -13.0 | -34.4 | | |
| 1673.20 | -11.1 | H | 3.0 | 43.3 | 1.0 | -53.4 | -13.0 | -40.4 | | |
| 2509.80 | -2.0 | H | 3.0 | 43.6 | 1.0 | -44.6 | -13.0 | -31.6 | | |
| 3346.40 | -4.7 | H | 3.0 | 43.9 | 1.0 | -47.6 | -13.0 | -34.6 | | |
| High Ch, 848.8MHz | | | | | | | | | | |
| 1697.60 | -7.5 | V | 3.0 | 43.3 | 1.0 | -49.8 | -13.0 | -36.8 | | |
| 2546.40 | -5.5 | V | 3.0 | 43.6 | 1.0 | -48.1 | -13.0 | -35.1 | | |
| 3395.20 | -4.3 | V | 3.0 | 44.0 | 1.0 | -47.3 | -13.0 | -34.3 | | |
| 1697.60 | -8.9 | H | 3.0 | 43.3 | 1.0 | -51.2 | -13.0 | -38.2 | | |
| 2546.40 | 0.7 | H | 3.0 | 43.6 | 1.0 | -41.9 | -13.0 | -28.9 | | |
| 3395.20 | -4.3 | H | 3.0 | 44.0 | 1.0 | -47.2 | -13.0 | -34.2 | | |

GPRS
ANT A+B

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|----------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | Samsung | | | | | | | |
| Project #: | | 4791196575 | | | | | | | |
| Date: | | 2024-03-07 | | | | | | | |
| Test Engineer: | | 24542 | | | | | | | |
| Configuration: | | EUT / AC Adapter, Y-Position, FF | | | | | | | |
| Location: | | Chamber 1 | | | | | | | |
| Mode: | | GPRS 850 MHz Harmonics | | | | | | | |
| Test Voltage: | | AC 120 V, 60 Hz | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.2MHz | | | | | | | | | |
| 1648.40 | -9.4 | V | 3.0 | 43.3 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 2472.60 | -3.6 | V | 3.0 | 43.6 | 1.0 | -46.2 | -13.0 | -33.2 | |
| 3296.80 | -6.1 | V | 3.0 | 43.9 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 4121.00 | -6.6 | V | 3.0 | 44.3 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 4945.20 | -5.8 | V | 3.0 | 44.7 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 1648.40 | -12.0 | H | 3.0 | 43.3 | 1.0 | -54.4 | -13.0 | -41.4 | |
| 2472.60 | -3.1 | H | 3.0 | 43.6 | 1.0 | -45.7 | -13.0 | -32.7 | |
| 3296.80 | -6.5 | H | 3.0 | 43.9 | 1.0 | -49.4 | -13.0 | -36.4 | |
| 4121.00 | -3.9 | H | 3.0 | 44.3 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 4945.20 | -5.8 | H | 3.0 | 44.7 | 1.0 | -49.5 | -13.0 | -36.5 | |
| Mid Ch, 836.6MHz | | | | | | | | | |
| 1673.20 | -10.0 | V | 3.0 | 43.3 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 2509.80 | 4.9 | V | 3.0 | 43.6 | 1.0 | -37.7 | -13.0 | -24.7 | |
| 3346.40 | -4.9 | V | 3.0 | 43.9 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 4183.00 | -5.6 | V | 3.0 | 44.3 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 5019.60 | -5.6 | V | 3.0 | 44.8 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 1673.20 | -12.1 | H | 3.0 | 43.3 | 1.0 | -54.5 | -13.0 | -41.5 | |
| 2509.80 | 1.6 | H | 3.0 | 43.6 | 1.0 | -41.0 | -13.0 | -28.0 | |
| 3346.40 | -5.4 | H | 3.0 | 43.9 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 4183.00 | -4.9 | H | 3.0 | 44.3 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 5019.60 | -5.8 | H | 3.0 | 44.8 | 1.0 | -49.6 | -13.0 | -36.6 | |
| High Ch, 848.8MHz | | | | | | | | | |
| 1697.60 | -11.9 | V | 3.0 | 43.3 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 2546.40 | 1.7 | V | 3.0 | 43.6 | 1.0 | -40.9 | -13.0 | -27.9 | |
| 3395.20 | -4.9 | V | 3.0 | 44.0 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 4244.00 | -6.4 | V | 3.0 | 44.4 | 1.0 | -49.8 | -13.0 | -36.8 | |
| 5092.80 | -5.4 | V | 3.0 | 44.8 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 1697.60 | -12.7 | H | 3.0 | 43.3 | 1.0 | -55.0 | -13.0 | -42.0 | |
| 2546.40 | -3.0 | H | 3.0 | 43.6 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 3395.20 | -5.6 | H | 3.0 | 44.0 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 4244.00 | -6.3 | H | 3.0 | 44.4 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 5092.80 | -5.6 | H | 3.0 | 44.8 | 1.0 | -49.4 | -13.0 | -36.4 | |

GPRS
ANT A

| UL Verification Services, Inc. | | | | | | | | | |
|--|------------------|------------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| Company: | | Samsung | | | | | | | |
| Project #: | | 4791196575 | | | | | | | |
| Date: | | 2024-04-27 | | | | | | | |
| Test Engineer: | | 24542 | | | | | | | |
| Configuration: | | EUT / AC Adapter, X-Posiiton, Open | | | | | | | |
| Location: | | Chamber 1 | | | | | | | |
| Mode: | | GPRS 850 MHz Harmonics | | | | | | | |
| Test Votage: | | AC 120 V, 60 Hz | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.2MHz | | | | | | | | | |
| 1648.40 | -8.6 | V | 3.0 | 43.3 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 2472.60 | 1.3 | V | 3.0 | 43.6 | 1.0 | -41.3 | -13.0 | -28.3 | |
| 3296.80 | -7.2 | V | 3.0 | 43.9 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 4121.00 | -6.5 | V | 3.0 | 44.3 | 1.0 | -49.8 | -13.0 | -36.8 | |
| 4945.20 | -5.6 | V | 3.0 | 44.7 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 1648.40 | -12.5 | H | 3.0 | 43.3 | 1.0 | -54.8 | -13.0 | -41.8 | |
| 2472.60 | 2.9 | H | 3.0 | 43.6 | 1.0 | -39.7 | -13.0 | -26.7 | |
| 3296.80 | -7.0 | H | 3.0 | 43.9 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 4121.00 | -5.8 | H | 3.0 | 44.3 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 4945.20 | -5.6 | H | 3.0 | 44.7 | 1.0 | -49.3 | -13.0 | -36.3 | |
| Mid Ch, 836.6MHz | | | | | | | | | |
| 1673.20 | -8.1 | V | 3.0 | 43.3 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 2509.80 | -0.4 | V | 3.0 | 43.6 | 1.0 | -43.0 | -13.0 | -30.0 | |
| 3346.40 | -7.8 | V | 3.0 | 43.9 | 1.0 | -50.8 | -13.0 | -37.8 | |
| 4183.00 | -6.4 | V | 3.0 | 44.3 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 5019.60 | -5.6 | V | 3.0 | 44.8 | 1.0 | -49.4 | -13.0 | -36.4 | |
| 1673.20 | -11.9 | H | 3.0 | 43.3 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 2509.80 | 3.6 | H | 3.0 | 43.6 | 1.0 | -39.0 | -13.0 | -26.0 | |
| 3346.40 | -7.0 | H | 3.0 | 43.9 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 4183.00 | -6.1 | H | 3.0 | 44.3 | 1.0 | -49.4 | -13.0 | -36.4 | |
| 5019.60 | -5.8 | H | 3.0 | 44.8 | 1.0 | -49.6 | -13.0 | -36.6 | |
| High Ch, 848.8MHz | | | | | | | | | |
| 1697.60 | -11.8 | V | 3.0 | 43.3 | 1.0 | -54.1 | -13.0 | -41.1 | |
| 2546.40 | 0.2 | V | 3.0 | 43.6 | 1.0 | -42.4 | -13.0 | -29.4 | |
| 3395.20 | -8.1 | V | 3.0 | 44.0 | 1.0 | -51.1 | -13.0 | -38.1 | |
| 4244.00 | -6.5 | V | 3.0 | 44.4 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 5092.80 | -5.3 | V | 3.0 | 44.8 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 1697.60 | -13.9 | H | 3.0 | 43.3 | 1.0 | -56.2 | -13.0 | -43.2 | |
| 2546.40 | 5.6 | H | 3.0 | 43.6 | 1.0 | -37.0 | -13.0 | -24.0 | |
| 3395.20 | -6.6 | H | 3.0 | 44.0 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 4244.00 | -5.8 | H | 3.0 | 44.4 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 5092.80 | -5.6 | H | 3.0 | 44.8 | 1.0 | -49.4 | -13.0 | -36.4 | |

GPRS
ANT D

WCDMA Band 5

| | | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|--|--|
| | | Company: Samsung | | | | | | | | | |
| | | Project #: 4791196575 | | | | | | | | | |
| | | Date: 2024-03-03 | | | | | | | | | |
| | | Test Engineer: 24542 | | | | | | | | | |
| | | Configuration: EUT / AC Adapter, Y-Position, Open | | | | | | | | | |
| | | Location: Chamber 1 | | | | | | | | | |
| | | Mode: Rel99 Band 5 Harmonics | | | | | | | | | |
| | | Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| REL99 | | | | | | | | | | | |
| ANT A+B | | | | | | | | | | | |
| Low Ch, 826.4MHz | | | | | | | | | | | |
| 1652.80 | -14.3 | V | 3.0 | 43.3 | 1.0 | -56.6 | -13.0 | -43.6 | | | |
| 2479.20 | -0.3 | V | 3.0 | 43.6 | 1.0 | -42.8 | -13.0 | -29.8 | | | |
| 3305.60 | -10.2 | V | 3.0 | 43.9 | 1.0 | -53.1 | -13.0 | -40.1 | | | |
| 1652.80 | -12.7 | H | 3.0 | 43.3 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| 2479.20 | 0.7 | H | 3.0 | 43.6 | 1.0 | -41.9 | -13.0 | -28.9 | | | |
| 3305.60 | -10.0 | H | 3.0 | 43.9 | 1.0 | -53.0 | -13.0 | -40.0 | | | |
| Mid Ch, 836.6MHz | | | | | | | | | | | |
| 1673.20 | -10.3 | V | 3.0 | 43.3 | 1.0 | -52.7 | -13.0 | -39.7 | | | |
| 2509.80 | -0.5 | V | 3.0 | 43.6 | 1.0 | -43.1 | -13.0 | -30.1 | | | |
| 3346.40 | -9.4 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | | | |
| 1673.20 | -2.0 | H | 3.0 | 43.3 | 1.0 | -44.3 | -13.0 | -31.3 | | | |
| 2509.80 | 2.1 | H | 3.0 | 43.6 | 1.0 | -40.5 | -13.0 | -27.5 | | | |
| 3346.40 | -9.2 | H | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | | | |
| High Ch, 846.6MHz | | | | | | | | | | | |
| 1693.20 | -14.2 | V | 3.0 | 43.3 | 1.0 | -56.5 | -13.0 | -43.5 | | | |
| 2539.80 | 0.8 | V | 3.0 | 43.6 | 1.0 | -41.8 | -13.0 | -28.8 | | | |
| 3386.40 | -9.1 | V | 3.0 | 44.0 | 1.0 | -52.1 | -13.0 | -39.1 | | | |
| 1693.20 | -15.6 | H | 3.0 | 43.3 | 1.0 | -57.9 | -13.0 | -44.9 | | | |
| 2539.80 | 1.4 | H | 3.0 | 43.6 | 1.0 | -41.2 | -13.0 | -28.2 | | | |
| 3386.40 | -8.9 | H | 3.0 | 44.0 | 1.0 | -51.9 | -13.0 | -38.9 | | | |
| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
| | | Company: Samsung | | | | | | | | | |
| | | Project #: 4791196575 | | | | | | | | | |
| | | Date: 2024-03-08 | | | | | | | | | |
| | | Test Engineer: 24542 | | | | | | | | | |
| | | Configuration: EUT / AC Adapter, Z-Position, FF | | | | | | | | | |
| | | Location: Chamber 1 | | | | | | | | | |
| | | Mode: Rel99 Band 5 Harmonics | | | | | | | | | |
| | | Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| REL99 | | | | | | | | | | | |
| ANT A | | | | | | | | | | | |
| Low Ch, 826.4MHz | | | | | | | | | | | |
| 1652.80 | -15.2 | V | 3.0 | 43.3 | 1.0 | -57.5 | -13.0 | -44.5 | | | |
| 2479.20 | -11.7 | V | 3.0 | 43.6 | 1.0 | -54.3 | -13.0 | -41.3 | | | |
| 3305.60 | -9.4 | V | 3.0 | 43.9 | 1.0 | -52.3 | -13.0 | -39.3 | | | |
| 1652.80 | -16.3 | H | 3.0 | 43.3 | 1.0 | -58.6 | -13.0 | -45.6 | | | |
| 2479.20 | -12.2 | H | 3.0 | 43.6 | 1.0 | -54.7 | -13.0 | -41.7 | | | |
| 3305.60 | -9.2 | H | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | | | |
| Mid Ch, 836.6MHz | | | | | | | | | | | |
| 1673.20 | -15.0 | V | 3.0 | 43.3 | 1.0 | -57.4 | -13.0 | -44.4 | | | |
| 2509.80 | -11.7 | V | 3.0 | 43.6 | 1.0 | -54.3 | -13.0 | -41.3 | | | |
| 3346.40 | -9.2 | V | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | | | |
| 1673.20 | -16.2 | H | 3.0 | 43.3 | 1.0 | -58.6 | -13.0 | -45.6 | | | |
| 2509.80 | -12.0 | H | 3.0 | 43.6 | 1.0 | -54.6 | -13.0 | -41.6 | | | |
| 3346.40 | -8.7 | H | 3.0 | 43.9 | 1.0 | -51.6 | -13.0 | -38.6 | | | |
| High Ch, 846.6MHz | | | | | | | | | | | |
| 1693.20 | -15.0 | V | 3.0 | 43.3 | 1.0 | -57.3 | -13.0 | -44.3 | | | |
| 2539.80 | -11.7 | V | 3.0 | 43.6 | 1.0 | -54.3 | -13.0 | -41.3 | | | |
| 3386.40 | -8.9 | V | 3.0 | 44.0 | 1.0 | -51.8 | -13.0 | -38.8 | | | |
| 1693.20 | -16.0 | H | 3.0 | 43.3 | 1.0 | -58.4 | -13.0 | -45.4 | | | |
| 2539.80 | -12.1 | H | 3.0 | 43.6 | 1.0 | -54.7 | -13.0 | -41.7 | | | |
| 3386.40 | -9.6 | H | 3.0 | 44.0 | 1.0 | -52.6 | -13.0 | -39.6 | | | |

| UL Verification Services, Inc. | | | | | | | | | |
|--|---------------------|------------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| Company: | | Samsung | | | | | | | |
| Project #: | | 4791196575 | | | | | | | |
| Date: | | 2024-04-26 | | | | | | | |
| Test Engineer: | | 24542 | | | | | | | |
| Configuration: | | EUT / Y-Position, Open | | | | | | | |
| Location: | | Chamber 1 | | | | | | | |
| Mode: | | Rel99 Band 5 Harmonics | | | | | | | |
| Test Votage: | | AC 120 V, 60 Hz | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 826.4MHz | | | | | | | | | |
| 1652.80 | -14.9 | V | 3.0 | 43.3 | 1.0 | -57.2 | -13.0 | -44.2 | |
| 2479.20 | -11.9 | V | 3.0 | 43.6 | 1.0 | -54.4 | -13.0 | -41.4 | |
| 3305.60 | -9.5 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 1652.80 | -16.4 | H | 3.0 | 43.3 | 1.0 | -58.7 | -13.0 | -45.7 | |
| 2479.20 | -12.3 | H | 3.0 | 43.6 | 1.0 | -54.9 | -13.0 | -41.9 | |
| 3305.60 | -9.2 | H | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | |
| Mid Ch, 836.6MHz | | | | | | | | | |
| 1673.20 | -13.4 | V | 3.0 | 43.3 | 1.0 | -55.7 | -13.0 | -42.7 | |
| 2509.80 | -11.8 | V | 3.0 | 43.6 | 1.0 | -54.4 | -13.0 | -41.4 | |
| 3346.40 | -9.3 | V | 3.0 | 43.9 | 1.0 | -52.3 | -13.0 | -39.3 | |
| 1673.20 | -16.0 | H | 3.0 | 43.3 | 1.0 | -58.3 | -13.0 | -45.3 | |
| 2509.80 | -12.3 | H | 3.0 | 43.6 | 1.0 | -54.9 | -13.0 | -41.9 | |
| 3346.40 | -9.1 | H | 3.0 | 43.9 | 1.0 | -52.0 | -13.0 | -39.0 | |
| High Ch, 846.6MHz | | | | | | | | | |
| 1693.20 | -12.6 | V | 3.0 | 43.3 | 1.0 | -54.9 | -13.0 | -41.9 | |
| 2539.80 | -11.1 | V | 3.0 | 43.6 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 3386.40 | -8.8 | V | 3.0 | 44.0 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 1693.20 | -13.6 | H | 3.0 | 43.3 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 2539.80 | -7.1 | H | 3.0 | 43.6 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 3386.40 | -8.7 | H | 3.0 | 44.0 | 1.0 | -51.7 | -13.0 | -38.7 | |

REL99
ANT D

LTE Band 14

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|-------|---|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| 5 MHz QPSK ANT A+B | | Company: Samsung Project #: 4791196575 Date: 2024-02-28 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 2 Mode: LTE_QPSK Band 14 Harmonics, 5MHz Bandwidth Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Ch, 790.5MHz | | | | | | | | | |
| | | 1581.00 | -30.5 | V | 3.0 | 40.8 | 1.0 | -70.3 | -40.0 | -30.3 | |
| | | 2371.50 | -11.8 | V | 3.0 | 41.3 | 1.0 | -52.1 | -13.0 | -39.1 | |
| | | 3162.00 | -8.9 | V | 3.0 | 42.2 | 1.0 | -50.1 | -13.0 | -37.1 | |
| | | 1581.00 | -30.7 | H | 3.0 | 40.8 | 1.0 | -70.6 | -40.0 | -30.6 | |
| | | 2371.50 | -11.8 | H | 3.0 | 41.3 | 1.0 | -52.1 | -13.0 | -39.1 | |
| | | 3162.00 | -8.3 | H | 3.0 | 42.2 | 1.0 | -49.4 | -13.0 | -36.4 | |
| | | Mid Ch, 793MHz | | | | | | | | | |
| 1586.00 | -28.1 | V | 3.0 | 40.8 | 1.0 | -67.9 | -40.0 | -27.9 | | | |
| 2379.00 | -11.6 | V | 3.0 | 41.3 | 1.0 | -51.9 | -13.0 | -38.9 | | | |
| 3172.00 | -9.0 | V | 3.0 | 42.2 | 1.0 | -50.2 | -13.0 | -37.2 | | | |
| 1586.00 | -25.9 | H | 3.0 | 40.8 | 1.0 | -65.7 | -40.0 | -25.7 | | | |
| 2379.00 | -11.8 | H | 3.0 | 41.3 | 1.0 | -52.1 | -13.0 | -39.1 | | | |
| 3172.00 | -8.3 | H | 3.0 | 42.2 | 1.0 | -49.5 | -13.0 | -36.5 | | | |
| High Ch, 795.5MHz | | | | | | | | | | | |
| 1591.00 | -30.2 | V | 3.0 | 40.8 | 1.0 | -70.0 | -40.0 | -30.0 | | | |
| 2386.50 | -11.6 | V | 3.0 | 41.3 | 1.0 | -51.9 | -13.0 | -38.9 | | | |
| 3182.00 | -9.1 | V | 3.0 | 42.2 | 1.0 | -50.3 | -13.0 | -37.3 | | | |
| 1591.00 | -30.8 | H | 3.0 | 40.8 | 1.0 | -70.6 | -40.0 | -30.6 | | | |
| 2386.50 | -11.7 | H | 3.0 | 41.3 | 1.0 | -52.0 | -13.0 | -39.0 | | | |
| 3182.00 | -8.4 | H | 3.0 | 42.2 | 1.0 | -49.6 | -13.0 | -36.6 | | | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|--|--|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| 10 MHz QPSK ANT A | | Company: Samsung Project #: 4791196575 Date: 2024-03-07 Test Engineer: 24542 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 14 Harmonics, 10MHz Bandwidth Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Mid Ch, 793MHz | | | | | | | | | |
| | | 1586.00 | -15.6 | V | 3.0 | 43.3 | 1.0 | -57.9 | -40.0 | -17.9 | |
| | | 2379.00 | -6.9 | V | 3.0 | 43.5 | 1.0 | -49.4 | -13.0 | -36.4 | |
| | | 3172.00 | -9.8 | V | 3.0 | 43.9 | 1.0 | -52.6 | -13.0 | -39.6 | |
| | | 1586.00 | -16.7 | H | 3.0 | 43.3 | 1.0 | -59.0 | -40.0 | -19.0 | |
| | | 2379.00 | -6.6 | H | 3.0 | 43.5 | 1.0 | -49.1 | -13.0 | -36.1 | |
| | | 3172.00 | -9.5 | H | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | Samsung | | | | | | | |
| Project #: | | 4791196575 | | | | | | | |
| Date: | | 2024-04-26 | | | | | | | |
| Test Engineer: | | 28775 | | | | | | | |
| Configuration: | | EUT / AC Adapter, X-Position, HF | | | | | | | |
| Location: | | Chamber 2 | | | | | | | |
| Mode: | | LTE_QPSK Band 14 Harmonics, 5MHz Bandwidth | | | | | | | |
| Test Votage: | | AC 120 V, 60 Hz | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| 5 MHz QPSK ANT D | | | | | | | | | |
| Low Ch, 790.5MHz | | | | | | | | | |
| 1581.00 | -24.5 | V | 3.0 | 40.8 | 1.0 | -64.3 | -40.0 | -24.3 | |
| 2371.50 | -9.9 | V | 3.0 | 41.3 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 3162.00 | -9.1 | V | 3.0 | 42.2 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 1581.00 | -24.7 | H | 3.0 | 40.8 | 1.0 | -64.5 | -40.0 | -24.5 | |
| 2371.50 | -8.5 | H | 3.0 | 41.3 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 3162.00 | -8.4 | H | 3.0 | 42.2 | 1.0 | -49.6 | -13.0 | -36.6 | |
| Mid Ch, 793MHz | | | | | | | | | |
| 1586.00 | -25.2 | V | 3.0 | 40.8 | 1.0 | -65.0 | -40.0 | -25.0 | |
| 2379.00 | -9.7 | V | 3.0 | 41.3 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 3172.00 | -9.0 | V | 3.0 | 42.2 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 1586.00 | -24.6 | H | 3.0 | 40.8 | 1.0 | -64.4 | -40.0 | -24.4 | |
| 2379.00 | -11.7 | H | 3.0 | 41.3 | 1.0 | -52.0 | -13.0 | -39.0 | |
| 3172.00 | -8.3 | H | 3.0 | 42.2 | 1.0 | -49.5 | -13.0 | -36.5 | |
| High Ch, 795.5MHz | | | | | | | | | |
| 1591.00 | -27.5 | V | 3.0 | 40.8 | 1.0 | -67.3 | -40.0 | -27.3 | |
| 2386.50 | -10.1 | V | 3.0 | 41.3 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 3182.00 | -9.1 | V | 3.0 | 42.2 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 1591.00 | -28.8 | H | 3.0 | 40.8 | 1.0 | -68.6 | -40.0 | -28.6 | |
| 2386.50 | -7.8 | H | 3.0 | 41.3 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 3182.00 | -8.4 | H | 3.0 | 42.2 | 1.0 | -49.6 | -13.0 | -36.6 | |

LTE Band 26 (Part 90)

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|-------|---|------------|-----------|----------|--------|--------|-------|-------|-------|-------|
| 1.4 MHz QPSK ANT A+B | | Company: Samsung Project #: 4791196575 Date: 2024-03-01 Test Engineer: 26087 Configuration: EUT / AC Adatper, X-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| | | f | SG reading | Ant. Pol. | Distance | Preamp | Filter | EIRP | Limit | Delta | Notes |
| | | MHz | (dBm) | (H/V) | (m) | (dB) | (dB) | (dBm) | (dBm) | (dB) | |
| | | Low Ch, 814.7MHz | | | | | | | | | |
| | | 1629.40 | -14.9 | V | 3.0 | 40.8 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | | 2444.10 | -11.2 | V | 3.0 | 41.4 | 1.0 | -51.6 | -13.0 | -38.6 | |
| | | 3258.80 | -9.3 | V | 3.0 | 42.2 | 1.0 | -50.5 | -13.0 | -37.5 | |
| | | 1629.40 | -15.7 | H | 3.0 | 40.8 | 1.0 | -55.5 | -13.0 | -42.5 | |
| | | 2444.10 | -10.9 | H | 3.0 | 41.4 | 1.0 | -51.3 | -13.0 | -38.3 | |
| | | 3258.80 | -8.8 | H | 3.0 | 42.2 | 1.0 | -50.0 | -13.0 | -37.0 | |
| Mid Ch, 823.3MHz | | | | | | | | | | | |
| 1646.60 | -13.5 | V | 3.0 | 40.8 | 1.0 | -53.3 | -13.0 | -40.3 | | | |
| 2469.90 | -11.3 | V | 3.0 | 41.4 | 1.0 | -51.7 | -13.0 | -38.7 | | | |
| 3293.20 | -9.3 | V | 3.0 | 42.2 | 1.0 | -50.4 | -13.0 | -37.4 | | | |
| 1646.60 | -15.6 | H | 3.0 | 40.8 | 1.0 | -55.4 | -13.0 | -42.4 | | | |
| 2469.90 | -10.3 | H | 3.0 | 41.4 | 1.0 | -50.7 | -13.0 | -37.7 | | | |
| 3293.20 | -8.8 | H | 3.0 | 42.2 | 1.0 | -50.0 | -13.0 | -37.0 | | | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|-------|---|------------|-----------|----------|--------|--------|-------|-------|-------|-------|
| 1.4 MHz QPSK ANT A | | Company: Samsung Project #: 4791196575 Date: 2024-03-06 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| | | f | SG reading | Ant. Pol. | Distance | Preamp | Filter | EIRP | Limit | Delta | Notes |
| | | MHz | (dBm) | (H/V) | (m) | (dB) | (dB) | (dBm) | (dBm) | (dB) | |
| | | Low Ch, 814.7MHz | | | | | | | | | |
| | | 1629.40 | -14.4 | V | 3.0 | 43.3 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | | 2444.10 | -5.9 | V | 3.0 | 43.6 | 1.0 | -48.5 | -13.0 | -35.5 | |
| | | 3258.80 | -9.4 | V | 3.0 | 43.9 | 1.0 | -52.3 | -13.0 | -39.3 | |
| | | 4073.50 | -7.9 | V | 3.0 | 44.3 | 1.0 | -51.2 | -13.0 | -38.2 | |
| | | 4888.20 | -6.8 | V | 3.0 | 44.7 | 1.0 | -50.5 | -13.0 | -37.5 | |
| | | 1629.40 | -14.7 | H | 3.0 | 43.3 | 1.0 | -57.0 | -13.0 | -44.0 | |
| 2444.10 | -1.2 | H | 3.0 | 43.6 | 1.0 | -43.8 | -13.0 | -30.8 | | | |
| 3258.80 | -9.1 | H | 3.0 | 43.9 | 1.0 | -52.0 | -13.0 | -39.0 | | | |
| 4073.50 | -7.6 | H | 3.0 | 44.3 | 1.0 | -50.9 | -13.0 | -37.9 | | | |
| 4888.20 | -6.8 | H | 3.0 | 44.7 | 1.0 | -50.5 | -13.0 | -37.5 | | | |
| Mid Ch, 823.3MHz | | | | | | | | | | | |
| 1646.60 | -14.9 | V | 3.0 | 43.3 | 1.0 | -57.2 | -13.0 | -44.2 | | | |
| 2469.90 | -4.4 | V | 3.0 | 43.6 | 1.0 | -47.0 | -13.0 | -34.0 | | | |
| 3293.20 | -10.1 | V | 3.0 | 43.9 | 1.0 | -53.0 | -13.0 | -40.0 | | | |
| 4116.50 | -7.5 | V | 3.0 | 44.3 | 1.0 | -50.9 | -13.0 | -37.9 | | | |
| 4939.80 | -6.8 | V | 3.0 | 44.7 | 1.0 | -50.5 | -13.0 | -37.5 | | | |
| 1646.60 | -14.9 | H | 3.0 | 43.3 | 1.0 | -57.2 | -13.0 | -44.2 | | | |
| 2469.90 | -0.4 | H | 3.0 | 43.6 | 1.0 | -43.0 | -13.0 | -30.0 | | | |
| 3293.20 | -9.1 | H | 3.0 | 43.9 | 1.0 | -52.0 | -13.0 | -39.0 | | | |
| 4116.50 | -7.3 | H | 3.0 | 44.3 | 1.0 | -50.6 | -13.0 | -37.6 | | | |
| 4939.80 | 0.0 | H | 3.0 | 44.7 | 1.0 | -43.7 | -13.0 | -30.7 | | | |

| 15 MHz QPSK ANT D | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|--|----------|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|------------------|--|--|--|--|--|--|--|--|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|
| | Company: Samsung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Project #: 4791196575 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Date: 2024-04-28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Engineer: 26087 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Configuration: EUT / Y-Position, Open | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Location: Chamber 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mode: LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Votage: AC 120 V, 60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">f MHz</th> <th style="text-align: center;">SG reading (dBm)</th> <th style="text-align: center;">Ant. Pol. (H/V)</th> <th style="text-align: center;">Distance (m)</th> <th style="text-align: center;">Preamp (dB)</th> <th style="text-align: center;">Filter (dB)</th> <th style="text-align: center;">EIRP (dBm)</th> <th style="text-align: center;">Limit (dBm)</th> <th style="text-align: center;">Delta (dB)</th> <th style="text-align: center;">Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Ch, 821.5MHz</td> </tr> <tr> <td style="text-align: center;">1643.00</td> <td style="text-align: center;">-15.2</td> <td style="text-align: center;">V</td> <td style="text-align: center;">3.0</td> <td style="text-align: center;">43.3</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">-57.5</td> <td style="text-align: center;">-13.0</td> <td style="text-align: center;">-44.5</td> <td></td> </tr> <tr> <td style="text-align: center;">2464.50</td> <td style="text-align: center;">-11.2</td> <td style="text-align: center;">V</td> <td style="text-align: center;">3.0</td> <td style="text-align: center;">43.6</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">-53.7</td> <td style="text-align: center;">-13.0</td> <td style="text-align: center;">-40.7</td> <td></td> </tr> <tr> <td style="text-align: center;">3286.00</td> <td style="text-align: center;">-9.4</td> <td style="text-align: center;">V</td> <td style="text-align: center;">3.0</td> <td style="text-align: center;">43.9</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">-52.4</td> <td style="text-align: center;">-13.0</td> <td style="text-align: center;">-39.4</td> <td></td> </tr> <tr> <td style="text-align: center;">1643.00</td> <td style="text-align: center;">-16.1</td> <td style="text-align: center;">H</td> <td style="text-align: center;">3.0</td> <td style="text-align: center;">43.3</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">-58.4</td> <td style="text-align: center;">-13.0</td> <td style="text-align: center;">-45.4</td> <td></td> </tr> <tr> <td style="text-align: center;">2464.50</td> <td style="text-align: center;">-9.0</td> <td style="text-align: center;">H</td> <td style="text-align: center;">3.0</td> <td style="text-align: center;">43.6</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">-51.6</td> <td style="text-align: center;">-13.0</td> <td style="text-align: center;">-38.6</td> <td></td> </tr> <tr> <td style="text-align: center;">3286.00</td> <td style="text-align: center;">-9.2</td> <td style="text-align: center;">H</td> <td style="text-align: center;">3.0</td> <td style="text-align: center;">43.9</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">-52.1</td> <td style="text-align: center;">-13.0</td> <td style="text-align: center;">-39.1</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 821.5MHz | | | | | | | | | | 1643.00 | -15.2 | V | 3.0 | 43.3 | 1.0 | -57.5 | -13.0 | -44.5 | | 2464.50 | -11.2 | V | 3.0 | 43.6 | 1.0 | -53.7 | -13.0 | -40.7 | | 3286.00 | -9.4 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | | 1643.00 | -16.1 | H | 3.0 | 43.3 | 1.0 | -58.4 | -13.0 | -45.4 | | 2464.50 | -9.0 | H | 3.0 | 43.6 | 1.0 | -51.6 | -13.0 | -38.6 | | 3286.00 | -9.2 | H | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Ch, 821.5MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1643.00 | -15.2 | V | 3.0 | 43.3 | 1.0 | -57.5 | -13.0 | -44.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2464.50 | -11.2 | V | 3.0 | 43.6 | 1.0 | -53.7 | -13.0 | -40.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3286.00 | -9.4 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1643.00 | -16.1 | H | 3.0 | 43.3 | 1.0 | -58.4 | -13.0 | -45.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2464.50 | -9.0 | H | 3.0 | 43.6 | 1.0 | -51.6 | -13.0 | -38.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3286.00 | -9.2 | H | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LTE Band 26 (Straddle)

| | | | | | | | | | | |
|----------------------------------|--|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| 5 MHz QPSK ANT A+B | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| | Company: Samsung Project #: 4791196575 Date: 2024-03-01 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Straddle Ch, 824 MHz | | | | | | | | | |
| | 1648.00 | -14.8 | V | 3.0 | 40.8 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | 2472.00 | -6.7 | V | 3.0 | 41.4 | 1.0 | -47.2 | -13.0 | -34.2 | |
| | 3296.00 | -9.4 | V | 3.0 | 42.2 | 1.0 | -50.6 | -13.0 | -37.6 | |
| | 1648.00 | -15.7 | H | 3.0 | 40.8 | 1.0 | -55.5 | -13.0 | -42.5 | |
| | 2472.00 | -5.4 | H | 3.0 | 41.4 | 1.0 | -45.9 | -13.0 | -32.9 | |
| | 3296.00 | -8.8 | H | 3.0 | 42.2 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 15 MHz QPSK ANT A | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| | Company: Samsung Project #: 4791196575 Date: 2024-03-06 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Straddle Ch, 824MHz | | | | | | | | | |
| | 1648.00 | -15.1 | V | 3.0 | 43.3 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 2472.00 | -4.2 | V | 3.0 | 43.6 | 1.0 | -46.8 | -13.0 | -33.8 | |
| | 3296.00 | -9.5 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | |
| | 4120.00 | -7.6 | V | 3.0 | 44.3 | 1.0 | -50.9 | -13.0 | -37.9 | |
| | 4944.00 | -6.8 | V | 3.0 | 44.7 | 1.0 | -50.5 | -13.0 | -37.5 | |
| | 1648.00 | -15.3 | H | 3.0 | 43.3 | 1.0 | -57.7 | -13.0 | -44.7 | |
| | 2472.00 | -0.3 | H | 3.0 | 43.6 | 1.0 | -42.9 | -13.0 | -29.9 | |
| | 3296.00 | -9.5 | H | 3.0 | 43.9 | 1.0 | -52.5 | -13.0 | -39.5 | |
| | 4120.00 | -7.2 | H | 3.0 | 44.3 | 1.0 | -50.5 | -13.0 | -37.5 | |
| | 4944.00 | -6.9 | H | 3.0 | 44.7 | 1.0 | -50.6 | -13.0 | -37.6 | |

| 15 MHz QPSK ANT D | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|--|----------|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|----------------|--|--|--|--|--|--|--|--|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|
| | Company: Samsung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Project #: 4791196575 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Date: 2024-04-28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Engineer: 26087 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Configuration: EUT / Y-Position, Open | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Location: Chamber 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mode: LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Votage: AC 120 V, 60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">f MHz</th> <th style="width: 10%;">SG reading (dBm)</th> <th style="width: 10%;">Ant. Pol. (H/V)</th> <th style="width: 10%;">Distance (m)</th> <th style="width: 10%;">Preamp (dB)</th> <th style="width: 10%;">Filter (dB)</th> <th style="width: 10%;">EIRP (dBm)</th> <th style="width: 10%;">Limit (dBm)</th> <th style="width: 10%;">Delta (dB)</th> <th style="width: 10%;">Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Mid Ch, 824MHz</td> </tr> <tr> <td>1648.00</td> <td>-15.0</td> <td>V</td> <td>3.0</td> <td>43.3</td> <td>1.0</td> <td>-57.3</td> <td>-13.0</td> <td>-44.3</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-9.9</td> <td>V</td> <td>3.0</td> <td>43.6</td> <td>1.0</td> <td>-52.5</td> <td>-13.0</td> <td>-39.5</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-9.6</td> <td>V</td> <td>3.0</td> <td>43.9</td> <td>1.0</td> <td>-52.5</td> <td>-13.0</td> <td>-39.5</td> <td></td> </tr> <tr> <td>1648.00</td> <td>-16.3</td> <td>H</td> <td>3.0</td> <td>43.3</td> <td>1.0</td> <td>-58.6</td> <td>-13.0</td> <td>-45.6</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-7.6</td> <td>H</td> <td>3.0</td> <td>43.6</td> <td>1.0</td> <td>-50.2</td> <td>-13.0</td> <td>-37.2</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-9.3</td> <td>H</td> <td>3.0</td> <td>43.9</td> <td>1.0</td> <td>-52.3</td> <td>-13.0</td> <td>-39.3</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Mid Ch, 824MHz | | | | | | | | | | 1648.00 | -15.0 | V | 3.0 | 43.3 | 1.0 | -57.3 | -13.0 | -44.3 | | 2472.00 | -9.9 | V | 3.0 | 43.6 | 1.0 | -52.5 | -13.0 | -39.5 | | 3296.00 | -9.6 | V | 3.0 | 43.9 | 1.0 | -52.5 | -13.0 | -39.5 | | 1648.00 | -16.3 | H | 3.0 | 43.3 | 1.0 | -58.6 | -13.0 | -45.6 | | 2472.00 | -7.6 | H | 3.0 | 43.6 | 1.0 | -50.2 | -13.0 | -37.2 | | 3296.00 | -9.3 | H | 3.0 | 43.9 | 1.0 | -52.3 | -13.0 | -39.3 |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 824MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1648.00 | -15.0 | V | 3.0 | 43.3 | 1.0 | -57.3 | -13.0 | -44.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2472.00 | -9.9 | V | 3.0 | 43.6 | 1.0 | -52.5 | -13.0 | -39.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3296.00 | -9.6 | V | 3.0 | 43.9 | 1.0 | -52.5 | -13.0 | -39.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1648.00 | -16.3 | H | 3.0 | 43.3 | 1.0 | -58.6 | -13.0 | -45.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2472.00 | -7.6 | H | 3.0 | 43.6 | 1.0 | -50.2 | -13.0 | -37.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3296.00 | -9.3 | H | 3.0 | 43.9 | 1.0 | -52.3 | -13.0 | -39.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LTE Band 26 (Part 22)

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|--|
| Company: Samsung Project #: 4791196575 Date: 2024-02-29 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| 5 MHz QPSK ANT A+B | | | | | | | | | | |
| Low Ch, 826.5MHz | | | | | | | | | | |
| 1633.00 | -14.9 | V | 3.0 | 40.8 | 1.0 | -54.7 | -13.0 | -41.7 | | |
| 2449.50 | -7.9 | V | 3.0 | 41.4 | 1.0 | -48.3 | -13.0 | -35.3 | | |
| 3266.00 | -9.3 | V | 3.0 | 42.2 | 1.0 | -50.5 | -13.0 | -37.5 | | |
| 1633.00 | -15.2 | H | 3.0 | 40.8 | 1.0 | -55.0 | -13.0 | -42.0 | | |
| 2449.50 | -3.2 | H | 3.0 | 41.4 | 1.0 | -43.6 | -13.0 | -30.6 | | |
| 3266.00 | -8.7 | H | 3.0 | 42.2 | 1.0 | -49.9 | -13.0 | -36.9 | | |
| Mid Ch, 831.5MHz | | | | | | | | | | |
| 1663.00 | -9.7 | V | 3.0 | 40.8 | 1.0 | -49.5 | -13.0 | -36.5 | | |
| 2494.50 | -4.0 | V | 3.0 | 41.5 | 1.0 | -44.5 | -13.0 | -31.5 | | |
| 3326.00 | -8.9 | V | 3.0 | 42.2 | 1.0 | -50.1 | -13.0 | -37.1 | | |
| 1663.00 | -5.5 | H | 3.0 | 40.8 | 1.0 | -45.3 | -13.0 | -32.3 | | |
| 2494.50 | -0.2 | H | 3.0 | 41.5 | 1.0 | -40.6 | -13.0 | -27.6 | | |
| 3326.00 | -8.5 | H | 3.0 | 42.2 | 1.0 | -49.7 | -13.0 | -36.7 | | |
| High Ch, 846.5MHz | | | | | | | | | | |
| 1693.00 | -14.6 | V | 3.0 | 40.8 | 1.0 | -54.4 | -13.0 | -41.4 | | |
| 2539.50 | -3.7 | V | 3.0 | 41.5 | 1.0 | -44.3 | -13.0 | -31.3 | | |
| 3386.00 | -8.7 | V | 3.0 | 42.2 | 1.0 | -49.9 | -13.0 | -36.9 | | |
| 1693.00 | -15.4 | H | 3.0 | 40.8 | 1.0 | -55.2 | -13.0 | -42.2 | | |
| 2539.50 | 0.8 | H | 3.0 | 41.5 | 1.0 | -39.7 | -13.0 | -26.7 | | |
| 3386.00 | -8.4 | H | 3.0 | 42.2 | 1.0 | -49.6 | -13.0 | -36.6 | | |
| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: Samsung Project #: 4791196575 Date: 2023-03-06 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| 5 MHz QPSK ANT A | | | | | | | | | | |
| Low Ch, 826.5MHz | | | | | | | | | | |
| 1633.00 | -14.7 | V | 3.0 | 43.3 | 1.0 | -57.0 | -13.0 | -44.0 | | |
| 2449.50 | -10.4 | V | 3.0 | 43.6 | 1.0 | -53.0 | -13.0 | -40.0 | | |
| 3266.00 | -9.5 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | | |
| 1633.00 | -15.3 | H | 3.0 | 43.3 | 1.0 | -57.6 | -13.0 | -44.6 | | |
| 2449.50 | -11.5 | H | 3.0 | 43.6 | 1.0 | -54.1 | -13.0 | -41.1 | | |
| 3266.00 | -9.2 | H | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | | |
| Mid Ch, 831.5MHz | | | | | | | | | | |
| 1663.00 | -15.1 | V | 3.0 | 43.3 | 1.0 | -57.4 | -13.0 | -44.4 | | |
| 2494.50 | -10.1 | V | 3.0 | 43.6 | 1.0 | -52.6 | -13.0 | -39.6 | | |
| 3326.00 | -3.5 | V | 3.0 | 43.9 | 1.0 | -46.4 | -13.0 | -33.4 | | |
| 1663.00 | -15.8 | H | 3.0 | 43.3 | 1.0 | -58.2 | -13.0 | -45.2 | | |
| 2494.50 | -11.1 | H | 3.0 | 43.6 | 1.0 | -53.6 | -13.0 | -40.6 | | |
| 3326.00 | -9.0 | H | 3.0 | 43.9 | 1.0 | -52.0 | -13.0 | -39.0 | | |
| High Ch, 846.5MHz | | | | | | | | | | |
| 1693.00 | -13.9 | V | 3.0 | 43.3 | 1.0 | -56.2 | -13.0 | -43.2 | | |
| 2539.50 | -8.7 | V | 3.0 | 43.6 | 1.0 | -51.3 | -13.0 | -38.3 | | |
| 3386.00 | -8.9 | V | 3.0 | 44.0 | 1.0 | -51.8 | -13.0 | -38.8 | | |
| 1693.00 | -15.2 | H | 3.0 | 43.3 | 1.0 | -57.5 | -13.0 | -44.5 | | |
| 2539.50 | -11.8 | H | 3.0 | 43.6 | 1.0 | -54.4 | -13.0 | -41.4 | | |
| 3386.00 | -8.6 | H | 3.0 | 44.0 | 1.0 | -51.6 | -13.0 | -38.6 | | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | Samsung | | | | | | | |
| Project #: | | 4791196575 | | | | | | | |
| Date: | | 2024-04-28 | | | | | | | |
| Test Engineer: | | 26087 | | | | | | | |
| Configuration: | | EUT / AC Adapter, Y_Position, Open | | | | | | | |
| Location: | | Chamber 1 | | | | | | | |
| Mode: | | LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth | | | | | | | |
| Test Votage: | | AC 120 V, 60 Hz | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| 15 MHz | | | | | | | | | |
| QPSK | | | | | | | | | |
| ANT D | | | | | | | | | |
| Low Ch, 831.5MHz | | | | | | | | | |
| 1663.00 | -15.2 | V | 3.0 | 43.3 | 1.0 | -57.5 | -13.0 | -44.5 | |
| 2494.50 | -9.8 | V | 3.0 | 43.6 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 3326.00 | -9.4 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 4157.50 | -7.9 | V | 3.0 | 44.3 | 1.0 | -51.2 | -13.0 | -38.2 | |
| 4989.00 | -6.7 | V | 3.0 | 44.8 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 1663.00 | -16.4 | H | 3.0 | 43.3 | 1.0 | -58.7 | -13.0 | -45.7 | |
| 2494.50 | -8.8 | H | 3.0 | 43.6 | 1.0 | -51.3 | -13.0 | -38.3 | |
| 3326.00 | -9.2 | H | 3.0 | 43.9 | 1.0 | -52.2 | -13.0 | -39.2 | |
| 4157.50 | -7.7 | H | 3.0 | 44.3 | 1.0 | -51.0 | -13.0 | -38.0 | |
| 4989.00 | -6.6 | H | 3.0 | 44.8 | 1.0 | -50.4 | -13.0 | -37.4 | |
| Mid Ch, 836.5MHz | | | | | | | | | |
| 1673.00 | -13.7 | V | 3.0 | 43.3 | 1.0 | -56.0 | -13.0 | -43.0 | |
| 2509.50 | -9.6 | V | 3.0 | 43.6 | 1.0 | -52.2 | -13.0 | -39.2 | |
| 3346.00 | -9.3 | V | 3.0 | 43.9 | 1.0 | -52.3 | -13.0 | -39.3 | |
| 1673.00 | -15.9 | H | 3.0 | 43.3 | 1.0 | -58.2 | -13.0 | -45.2 | |
| 2509.50 | -5.3 | H | 3.0 | 43.6 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 3346.00 | -9.1 | H | 3.0 | 43.9 | 1.0 | -52.0 | -13.0 | -39.0 | |
| High Ch, 841.5MHz | | | | | | | | | |
| 1683.00 | -14.6 | V | 3.0 | 43.3 | 1.0 | -56.9 | -13.0 | -43.9 | |
| 2524.50 | -8.0 | V | 3.0 | 43.6 | 1.0 | -50.6 | -13.0 | -37.6 | |
| 3366.00 | -9.1 | V | 3.0 | 43.9 | 1.0 | -52.0 | -13.0 | -39.0 | |
| 4207.50 | -7.5 | V | 3.0 | 44.4 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 5049.00 | -6.7 | V | 3.0 | 44.8 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 1683.00 | -15.8 | H | 3.0 | 43.3 | 1.0 | -58.1 | -13.0 | -45.1 | |
| 2524.50 | -4.0 | H | 3.0 | 43.6 | 1.0 | -46.6 | -13.0 | -33.6 | |
| 3366.00 | -8.8 | H | 3.0 | 43.9 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 4207.50 | -7.5 | H | 3.0 | 44.4 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 5049.00 | -6.8 | H | 3.0 | 44.8 | 1.0 | -50.5 | -13.0 | -37.5 | |

NR Band n26 (Part 90)

| | | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--------------------------------------|--|--|--|------------------|-----------------|---------------|---------------|-------------|--------------|--------------|--------------|--|--|
| | | Company: Samsung | | | | | | | | | | | |
| | | Project #: 4791196575 | | | | | | | | | | | |
| | | Date: 2024-02-26 | | | | | | | | | | | |
| | | Test Engineer: 28775 | | | | | | | | | | | |
| | | Configuration: EUT / AC Adapter, Y-Position, Open | | | | | | | | | | | |
| | | Location: Chamber 1 | | | | | | | | | | | |
| | | Mode: 5G NR_QPSK NR n26 Harmonics, 5MHz Bandwidth | | | | | | | | | | | |
| | | Test Votage: AC 120 V, 60 Hz | | | | | | | | | | | |
| 5 MHz DFT-OFDM QPSK ANT A+B | | f | SG reading | Ant. Pol. | Distance | Preamp | Filter | EIRP | Limit | Delta | Notes | | |
| | | MHz | (dBm) | (H/V) | (m) | (dB) | (dB) | (dBm) | (dBm) | (dB) | | | |
| | | Low Ch, 816.5MHz | | | | | | | | | | | |
| | | 1633.00 | -13.7 | V | 3.0 | 43.3 | 1.0 | -56.0 | -13.0 | -43.0 | | | |
| | | 2449.50 | -6.7 | V | 3.0 | 43.6 | 1.0 | -49.2 | -13.0 | -36.2 | | | |
| | | 3266.00 | -9.3 | V | 3.0 | 43.9 | 1.0 | -52.2 | -13.0 | -39.2 | | | |
| | | 1633.00 | -13.9 | H | 3.0 | 43.3 | 1.0 | -56.3 | -13.0 | -43.3 | | | |
| | | 2449.50 | -6.5 | H | 3.0 | 43.6 | 1.0 | -49.1 | -13.0 | -36.1 | | | |
| | | 3266.00 | -8.9 | H | 3.0 | 43.9 | 1.0 | -51.8 | -13.0 | -38.8 | | | |
| | | Mid Ch, 821.5MHz | | | | | | | | | | | |
| | | 1643.00 | -13.0 | V | 3.0 | 43.3 | 1.0 | -55.4 | -13.0 | -42.4 | | | |
| | | 2464.50 | -5.6 | V | 3.0 | 43.6 | 1.0 | -48.2 | -13.0 | -35.2 | | | |
| | | 3286.00 | -9.2 | V | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | | | |
| | | 1643.00 | -14.0 | H | 3.0 | 43.3 | 1.0 | -56.3 | -13.0 | -43.3 | | | |
| | | 2464.50 | -5.7 | H | 3.0 | 43.6 | 1.0 | -48.3 | -13.0 | -35.3 | | | |
| | | 3286.00 | -9.0 | H | 3.0 | 43.9 | 1.0 | -51.9 | -13.0 | -38.9 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| | | | Company: Samsung | | | | | | | | | | |
| | | Project #: 4791196575 | | | | | | | | | | | |
| | | Date: 2024-03-08 | | | | | | | | | | | |
| | | Test Engineer: 24542 | | | | | | | | | | | |
| | | Configuration: EUT / AC Adapter, Z-Position, FF | | | | | | | | | | | |
| | | Location: Chamber 1 | | | | | | | | | | | |
| | | Mode: 5G NR_QPSK NR 26 Harmonics, 5MHz Bandwidth | | | | | | | | | | | |
| | | Test Votage: AC 120 V, 60 Hz | | | | | | | | | | | |
| 5 MHz DFT-OFDM QPSK ANT A | | f | SG reading | Ant. Pol. | Distance | Preamp | Filter | EIRP | Limit | Delta | Notes | | |
| | | MHz | (dBm) | (H/V) | (m) | (dB) | (dB) | (dBm) | (dBm) | (dB) | | | |
| | | Low Ch, 816.5MHz | | | | | | | | | | | |
| | | 1633.00 | -14.9 | V | 3.0 | 43.3 | 1.0 | -57.3 | -13.0 | -44.3 | | | |
| | | 2449.50 | -11.2 | V | 3.0 | 43.6 | 1.0 | -53.8 | -13.0 | -40.8 | | | |
| | | 3266.00 | -9.5 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | | | |
| | | 1633.00 | -16.0 | H | 3.0 | 43.3 | 1.0 | -58.3 | -13.0 | -45.3 | | | |
| | | 2449.50 | -11.8 | H | 3.0 | 43.6 | 1.0 | -54.3 | -13.0 | -41.3 | | | |
| | | 3266.00 | -9.3 | H | 3.0 | 43.9 | 1.0 | -52.2 | -13.0 | -39.2 | | | |
| | | Mid Ch, 821.5MHz | | | | | | | | | | | |
| | | 1643.00 | -14.9 | V | 3.0 | 43.3 | 1.0 | -57.2 | -13.0 | -44.2 | | | |
| | | 2464.50 | -11.0 | V | 3.0 | 43.6 | 1.0 | -53.6 | -13.0 | -40.6 | | | |
| | | 3286.00 | -9.5 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | | | |
| | | 1643.00 | -15.6 | H | 3.0 | 43.3 | 1.0 | -57.9 | -13.0 | -44.9 | | | |
| | | 2464.50 | -11.4 | H | 3.0 | 43.6 | 1.0 | -54.0 | -13.0 | -41.0 | | | |
| | | 3286.00 | -9.3 | H | 3.0 | 43.9 | 1.0 | -52.2 | -13.0 | -39.2 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| 10 MHz DFT-OFDM QPSK ANT D | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|--|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| | Company: Sasung Project #: 4791196575 Date: 2024-04-25 Test Engineer: 28775 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 2 Mode: 5G NR_QPSK NR n26 Harmonics, 10MHz Bandwidth Test Votage: AC 120 V, 60 Hz | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 819MHz | | | | | | | | | |
| | 1638.00 | -14.9 | V | 3.0 | 40.8 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | 2457.00 | -11.4 | V | 3.0 | 41.4 | 1.0 | -51.8 | -13.0 | -38.8 | |
| | 3276.00 | -9.2 | V | 3.0 | 42.2 | 1.0 | -50.4 | -13.0 | -37.4 | |
| | 1638.00 | -15.9 | H | 3.0 | 40.8 | 1.0 | -55.7 | -13.0 | -42.7 | |
| | 2457.00 | -11.3 | H | 3.0 | 41.4 | 1.0 | -51.7 | -13.0 | -38.7 | |
| | 3276.00 | -8.6 | H | 3.0 | 42.2 | 1.0 | -49.8 | -13.0 | -36.8 | |

NR Band n26 (Straddle)

| | | | | | | | | | | |
|---------------------------------------|--|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| 15 MHz DFT-OFDM QPSK ANT A+B | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| | Company: Samsung Project #: 4791196575 Date: 2024-02-26 Test Engineer: 28775 Configuration: EUT / AC Adapter, Y-Position, Open Location: Chamber 1 Mode: 5G NR_QPSK NR n26 Harmonics, 15MHz Bandwidth Test Voltage: AC 120 V, 60 Hz | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Straddle Ch, 824MHz | | | | | | | | | |
| | 1648.00 | -12.9 | V | 3.0 | 43.3 | 1.0 | -55.2 | -13.0 | -42.2 | |
| | 2472.00 | -2.1 | V | 3.0 | 43.6 | 1.0 | -44.7 | -13.0 | -31.7 | |
| | 3296.00 | -9.2 | V | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | |
| | 1648.00 | -13.9 | H | 3.0 | 43.3 | 1.0 | -56.3 | -13.0 | -43.3 | |
| | 2472.00 | -3.2 | H | 3.0 | 43.6 | 1.0 | -45.8 | -13.0 | -32.8 | |
| | 3296.00 | -8.9 | H | 3.0 | 43.9 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 10 MHz DFT-OFDM QPSK ANT A | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| | Company: Samsung Project #: 4791196575 Date: 2024-03-08 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR 26 Harmonics, 10MHz Bandwidth Test Voltage: AC 120 V, 60 Hz | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Straddle Ch, 824MHz | | | | | | | | | |
| | 1648.00 | -14.9 | V | 3.0 | 43.3 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | 2472.00 | -11.3 | V | 3.0 | 43.6 | 1.0 | -53.8 | -13.0 | -40.8 | |
| | 3296.00 | -9.5 | V | 3.0 | 43.9 | 1.0 | -52.4 | -13.0 | -39.4 | |
| | 1648.00 | -16.0 | H | 3.0 | 43.3 | 1.0 | -58.3 | -13.0 | -45.3 | |
| | 2472.00 | -11.1 | H | 3.0 | 43.6 | 1.0 | -53.7 | -13.0 | -40.7 | |
| | 3296.00 | -9.3 | H | 3.0 | 43.9 | 1.0 | -52.2 | -13.0 | -39.2 | |

| 10 MHz DFT-OFDM QPSK ANT D | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|--|----------|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|---------------------|--|--|--|--|--|--|--|--|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|------|---|-----|------|-----|-------|-------|-------|
| | Company: Samsung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Project #: 4791196575 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Date: 2024-04-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Engineer: 28775 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Configuration: EUT / AC Adapter, X-Postion, Open | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Location: Chamber 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mode: 5G NR_QPSK NR n26 Harmonics, 10MHz Bandwidth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Votage: AC 120 V, 60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Straddle Ch, 824MHz</td> </tr> <tr> <td>1648.00</td> <td>-14.9</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-54.7</td> <td>-13.0</td> <td>-41.7</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-11.2</td> <td>V</td> <td>3.0</td> <td>41.4</td> <td>1.0</td> <td>-51.6</td> <td>-13.0</td> <td>-38.6</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-9.1</td> <td>V</td> <td>3.0</td> <td>42.2</td> <td>1.0</td> <td>-50.3</td> <td>-13.0</td> <td>-37.3</td> <td></td> </tr> <tr> <td>1648.00</td> <td>-15.8</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-55.6</td> <td>-13.0</td> <td>-42.6</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-11.4</td> <td>H</td> <td>3.0</td> <td>41.4</td> <td>1.0</td> <td>-51.8</td> <td>-13.0</td> <td>-38.8</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-8.6</td> <td>H</td> <td>3.0</td> <td>42.2</td> <td>1.0</td> <td>-49.8</td> <td>-13.0</td> <td>-36.8</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Straddle Ch, 824MHz | | | | | | | | | | 1648.00 | -14.9 | V | 3.0 | 40.8 | 1.0 | -54.7 | -13.0 | -41.7 | | 2472.00 | -11.2 | V | 3.0 | 41.4 | 1.0 | -51.6 | -13.0 | -38.6 | | 3296.00 | -9.1 | V | 3.0 | 42.2 | 1.0 | -50.3 | -13.0 | -37.3 | | 1648.00 | -15.8 | H | 3.0 | 40.8 | 1.0 | -55.6 | -13.0 | -42.6 | | 2472.00 | -11.4 | H | 3.0 | 41.4 | 1.0 | -51.8 | -13.0 | -38.8 | | 3296.00 | -8.6 | H | 3.0 | 42.2 | 1.0 | -49.8 | -13.0 | -36.8 |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Straddle Ch, 824MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1648.00 | -14.9 | V | 3.0 | 40.8 | 1.0 | -54.7 | -13.0 | -41.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2472.00 | -11.2 | V | 3.0 | 41.4 | 1.0 | -51.6 | -13.0 | -38.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3296.00 | -9.1 | V | 3.0 | 42.2 | 1.0 | -50.3 | -13.0 | -37.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1648.00 | -15.8 | H | 3.0 | 40.8 | 1.0 | -55.6 | -13.0 | -42.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2472.00 | -11.4 | H | 3.0 | 41.4 | 1.0 | -51.8 | -13.0 | -38.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3296.00 | -8.6 | H | 3.0 | 42.2 | 1.0 | -49.8 | -13.0 | -36.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NR Band n26 (Part 22)

| | | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--------|----------|---|---------|--|------------|-----------|----------|--------|--------|-------|-------|-------|-------|
| | | Company: Samsung Project #: 4791196575 Date: 2024-02-26 Test Engineer: 28775 Configuration: EUT / AC Adapter, Y-Position, Open Location: Chamber 1 Mode: 5G NR_QPSK NR n26 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz | | | | | | | | | | | |
| 5 MHz | DFT-OFDM | QPSK | ANT A+B | f | SG reading | Ant. Pol. | Distance | Preamp | Filter | EIRP | Limit | Delta | Notes |
| | | | | MHz | (dBm) | (H/V) | (m) | (dB) | (dB) | (dBm) | (dBm) | (dB) | |
| | | | | Low Ch, 826.5MHz | | | | | | | | | |
| | | | | 1653.00 | -14.3 | V | 3.0 | 43.3 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | | | | 2479.50 | -8.3 | V | 3.0 | 43.6 | 1.0 | -50.9 | -13.0 | -37.9 | |
| | | | | 3306.00 | -9.1 | V | 3.0 | 43.9 | 1.0 | -52.0 | -13.0 | -39.0 | |
| | | | | 1653.00 | -15.1 | H | 3.0 | 43.3 | 1.0 | -57.5 | -13.0 | -44.5 | |
| | | | | 2479.50 | -8.7 | H | 3.0 | 43.6 | 1.0 | -51.3 | -13.0 | -38.3 | |
| | | | | 3306.00 | -8.9 | H | 3.0 | 43.9 | 1.0 | -51.8 | -13.0 | -38.8 | |
| | | | | Mid Ch, 831.5MHz | | | | | | | | | |
| | | | | 1663.00 | -14.0 | V | 3.0 | 43.3 | 1.0 | -56.3 | -13.0 | -43.3 | |
| | | | | 2494.50 | 4.6 | V | 3.0 | 43.6 | 1.0 | -38.0 | -13.0 | -25.0 | |
| | | | | 3326.00 | -9.0 | V | 3.0 | 43.9 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | | | | 1663.00 | -15.0 | H | 3.0 | 43.3 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | | | 2494.50 | 3.2 | H | 3.0 | 43.6 | 1.0 | -39.4 | -13.0 | -26.4 | |
| | | | | 3326.00 | -8.8 | H | 3.0 | 43.9 | 1.0 | -51.7 | -13.0 | -38.7 | |
| | | | | High Ch, 846.5MHz | | | | | | | | | |
| | | | | 1693.00 | -14.2 | V | 3.0 | 43.3 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | | | | 2539.50 | -8.2 | V | 3.0 | 43.6 | 1.0 | -50.8 | -13.0 | -37.8 | |
| | | | | 3386.00 | -8.7 | V | 3.0 | 44.0 | 1.0 | -51.6 | -13.0 | -38.6 | |
| | | | | 1693.00 | -14.9 | H | 3.0 | 43.3 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | | | | 2539.50 | -8.8 | H | 3.0 | 43.6 | 1.0 | -51.4 | -13.0 | -38.4 | |
| | | | | 3386.00 | -8.5 | H | 3.0 | 44.0 | 1.0 | -51.4 | -13.0 | -38.4 | |
| | | | | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| | | Company: Samsung Project #: 4791196575 Date: 2024-03-08 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR 26 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz | | | | | | | | | | | |
| 20 MHz | DFT-OFDM | QPSK | ANT A | f | SG reading | Ant. Pol. | Distance | Preamp | Filter | EIRP | Limit | Delta | Notes |
| | | | | MHz | (dBm) | (H/V) | (m) | (dB) | (dB) | (dBm) | (dBm) | (dB) | |
| | | | | Low Ch, 834MHz | | | | | | | | | |
| | | | | 1668.00 | -14.9 | V | 3.0 | 43.3 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | | | | 2502.00 | -11.1 | V | 3.0 | 43.6 | 1.0 | -53.7 | -13.0 | -40.7 | |
| | | | | 3336.00 | -9.3 | V | 3.0 | 43.9 | 1.0 | -52.2 | -13.0 | -39.2 | |
| | | | | 1668.00 | -15.6 | H | 3.0 | 43.3 | 1.0 | -57.9 | -13.0 | -44.9 | |
| | | | | 2502.00 | -11.4 | H | 3.0 | 43.6 | 1.0 | -54.0 | -13.0 | -41.0 | |
| | | | | 3336.00 | -9.9 | H | 3.0 | 43.9 | 1.0 | -52.8 | -13.0 | -39.8 | |
| | | | | Mid Ch, 836.5MHz | | | | | | | | | |
| | | | | 1673.00 | -14.9 | V | 3.0 | 43.3 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | | | 2509.50 | -11.3 | V | 3.0 | 43.6 | 1.0 | -53.9 | -13.0 | -40.9 | |
| | | | | 3346.00 | -9.2 | V | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | |
| | | | | 1673.00 | -15.7 | H | 3.0 | 43.3 | 1.0 | -58.0 | -13.0 | -45.0 | |
| | | | | 2509.50 | -11.5 | H | 3.0 | 43.6 | 1.0 | -54.1 | -13.0 | -41.1 | |
| | | | | 3346.00 | -9.0 | H | 3.0 | 43.9 | 1.0 | -52.0 | -13.0 | -39.0 | |
| | | | | High Ch, 839MHz | | | | | | | | | |
| | | | | 1678.00 | -14.7 | V | 3.0 | 43.3 | 1.0 | -57.0 | -13.0 | -44.0 | |
| | | | | 2517.00 | -10.9 | V | 3.0 | 43.6 | 1.0 | -53.5 | -13.0 | -40.5 | |
| | | | | 3356.00 | -9.2 | V | 3.0 | 43.9 | 1.0 | -52.1 | -13.0 | -39.1 | |
| | | | | 1678.00 | -16.1 | H | 3.0 | 43.3 | 1.0 | -58.4 | -13.0 | -45.4 | |
| | | | | 2517.00 | -11.1 | H | 3.0 | 43.6 | 1.0 | -53.7 | -13.0 | -40.7 | |
| | | | | 3356.00 | -8.8 | H | 3.0 | 43.9 | 1.0 | -51.8 | -13.0 | -38.8 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | Samsung | | | | | | | |
| Project #: | | 4791196575 | | | | | | | |
| Date: | | 2024-04-25 | | | | | | | |
| Test Engineer: | | 28775 | | | | | | | |
| Configuration: | | EUT / AC Adapter, X-Postion, Open | | | | | | | |
| Location: | | Chamber 2 | | | | | | | |
| Mode: | | 5G NR_QPSK NR n26 Harmonics, 5MHz Bandwidth | | | | | | | |
| Test Votage: | | AC 120 V, 60 Hz | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| 20 MHz | | | | | | | | | |
| DFT-OFDM | | | | | | | | | |
| QPSK | | | | | | | | | |
| ANT D | | | | | | | | | |
| Low Ch, 826.5MHz | | | | | | | | | |
| 1653.00 | -14.9 | V | 3.0 | 40.8 | 1.0 | -54.7 | -13.0 | -41.7 | |
| 2479.50 | -11.4 | V | 3.0 | 41.4 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 3306.00 | -9.1 | V | 3.0 | 42.2 | 1.0 | -50.3 | -13.0 | -37.3 | |
| Mid Ch, 831.5MHz | | | | | | | | | |
| 1663.00 | -15.7 | H | 3.0 | 40.8 | 1.0 | -55.5 | -13.0 | -42.5 | |
| 2479.50 | -11.5 | H | 3.0 | 41.4 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 3306.00 | -8.7 | H | 3.0 | 42.2 | 1.0 | -49.9 | -13.0 | -36.9 | |
| High Ch, 846.5MHz | | | | | | | | | |
| 1663.00 | -14.8 | V | 3.0 | 40.8 | 1.0 | -54.6 | -13.0 | -41.6 | |
| 2494.50 | -6.0 | V | 3.0 | 41.5 | 1.0 | -46.5 | -13.0 | -33.5 | |
| 3326.00 | -8.8 | V | 3.0 | 42.2 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 1663.00 | -15.7 | H | 3.0 | 40.8 | 1.0 | -55.5 | -13.0 | -42.5 | |
| 2494.50 | -7.8 | H | 3.0 | 41.5 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 3326.00 | -8.3 | H | 3.0 | 42.2 | 1.0 | -49.5 | -13.0 | -36.5 | |
| High Ch, 846.5MHz | | | | | | | | | |
| 1693.00 | -14.8 | V | 3.0 | 40.8 | 1.0 | -54.6 | -13.0 | -41.6 | |
| 2539.50 | -11.0 | V | 3.0 | 41.5 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 3386.00 | -8.5 | V | 3.0 | 42.2 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 1693.00 | -15.7 | H | 3.0 | 40.8 | 1.0 | -55.5 | -13.0 | -42.5 | |
| 2539.50 | -11.0 | H | 3.0 | 41.5 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 3386.00 | -8.2 | H | 3.0 | 42.2 | 1.0 | -49.4 | -13.0 | -36.4 | |

END OF REPORT