

10.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238 and §27. 53

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.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

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.

RESULTS

10.3.1. OUT OF BAND EMISSIONS RESULT

GSM

| Band | Mode | f [MHz] | Spurious [dBm] | Limit [dBm] | Margin [dB] | |
|---------|-------|---------|----------------|-------------|-------------|------|
| GSM850 | GPRS | 824.2 | -22.36 | -13.00 | 9.36 | |
| | | 836.6 | -22.76 | | 9.76 | |
| | | 848.8 | -21.79 | | 8.79 | |
| | EGPRS | 824.2 | -22.08 | | 9.08 | |
| | | 836.6 | -22.42 | | 9.42 | |
| | | 848.8 | -22.33 | | 9.33 | |
| GSM1900 | GPRS | 1850.2 | -22.60 | | -13.00 | 9.60 |
| | | 1880.0 | -22.51 | | | 9.51 |
| | | 1909.8 | -22.57 | | | 9.57 |
| | EGPRS | 1850.2 | -22.41 | 9.41 | | |
| | | 1880.0 | -22.08 | 9.08 | | |
| | | 1909.8 | -22.61 | 9.61 | | |

WCDMA

| Band | Mode | f [MHz] | Spurious [dBm] | Limit [dBm] | Margin [dB] |
|--------|-------|---------|----------------|-------------|-------------|
| Band 5 | REL99 | 826.4 | -33.09 | -13.00 | 20.09 |
| | | 836.6 | -33.28 | | 20.28 |
| | | 846.6 | -33.01 | | 20.01 |
| | HSDPA | 826.4 | -32.81 | | 19.81 |
| | | 836.6 | -33.13 | | 20.13 |
| | | 846.6 | -33.44 | | 20.44 |
| Band 4 | REL99 | 1712.4 | -33.17 | -13.00 | 20.17 |
| | | 1732.6 | -31.77 | | 18.77 |
| | | 1752.6 | -32.99 | | 19.99 |
| | HSDPA | 1712.4 | -32.46 | | 19.46 |
| | | 1732.6 | -32.34 | | 19.34 |
| | | 1752.6 | -32.22 | | 19.22 |
| Band 2 | REL99 | 1852.4 | -32.49 | -13.00 | 19.49 |
| | | 1880.0 | -32.67 | | 19.67 |
| | | 1907.6 | -33.12 | | 20.12 |
| | HSDPA | 1852.4 | -32.99 | | 19.99 |
| | | 1880.0 | -33.05 | | 20.05 |
| | | 1907.6 | -33.06 | | 20.06 |

LTE 17

| Bandwidth | Mode | f [MHz] | Spurious [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-------|---------|----------------|-------------|-------------|
| 10 MHz | QPSK | 709.0 | -27.68 | -13.00 | 14.68 |
| | | 710.0 | -26.49 | | 13.49 |
| | | 711.0 | -26.23 | | 13.23 |
| | 16QAM | 709.0 | -27.32 | | 14.32 |
| | | 710.0 | -27.57 | | 14.57 |
| | | 711.0 | -27.55 | | 14.55 |
| 5 MHz | QPSK | 706.5 | -27.29 | -13.00 | 14.29 |
| | | 710.0 | -27.32 | | 14.32 |
| | | 713.5 | -27.43 | | 14.43 |
| | 16QAM | 706.5 | -26.98 | | 13.98 |
| | | 710.0 | -26.77 | | 13.77 |
| | | 713.5 | -26.42 | | 13.42 |

LTE 5

| Bandwidth | Mode | f [MHz] | Spurious [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-------|---------|----------------|-------------|-------------|
| 10 MHz | QPSK | 829.0 | -27.21 | -13.00 | 14.21 |
| | | 836.5 | -27.93 | | 14.93 |
| | | 844.0 | -26.45 | | 13.45 |
| | 16QAM | 829.0 | -26.36 | | 13.36 |
| | | 836.5 | -26.81 | | 13.81 |
| | | 844.0 | -27.22 | | 14.22 |
| 5 MHz | QPSK | 826.5 | -27.08 | | 14.08 |
| | | 836.5 | -26.52 | | 13.52 |
| | | 846.5 | -26.70 | | 13.70 |
| | 16QAM | 826.5 | -27.27 | | 14.27 |
| | | 836.5 | -27.42 | | 14.42 |
| | | 846.5 | -28.02 | | 15.02 |
| 3 MHz | QPSK | 825.5 | -27.53 | | 14.53 |
| | | 836.5 | -27.48 | | 14.48 |
| | | 847.5 | -27.09 | | 14.09 |
| | 16QAM | 825.5 | -26.73 | | 13.73 |
| | | 836.5 | -27.42 | | 14.42 |
| | | 847.5 | -27.58 | | 14.58 |
| 1.4 MHz | QPSK | 824.7 | -26.93 | 13.93 | |
| | | 836.5 | -26.76 | 13.76 | |
| | | 848.3 | -26.84 | 13.84 | |
| | 16QAM | 824.7 | -27.15 | 14.15 | |
| | | 836.5 | -26.67 | 13.67 | |
| | | 848.3 | -26.68 | 13.68 | |

LTE 4

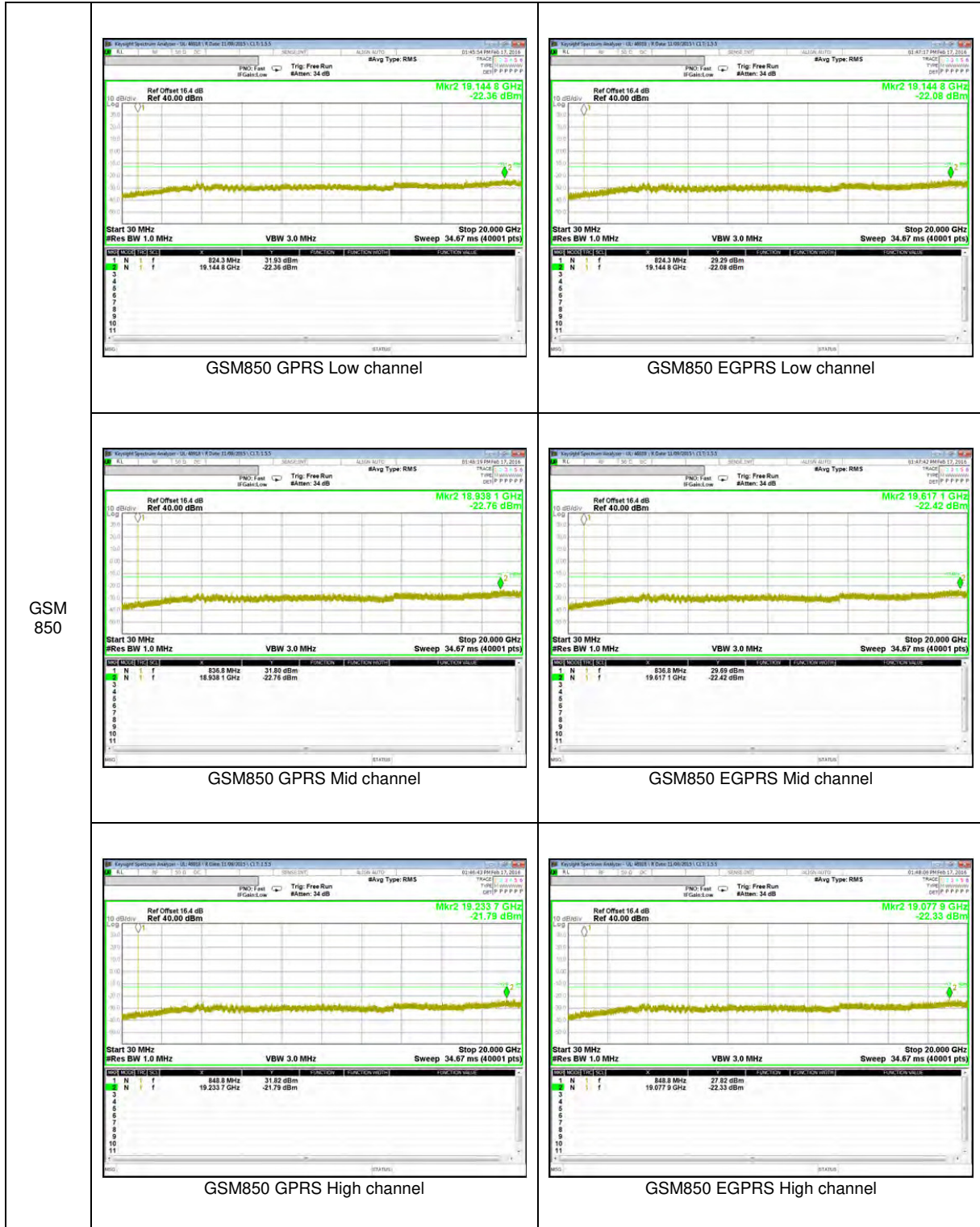
| Bandwidth | Mode | f [MHz] | Spurious [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-------|---------|----------------|-------------|-------------|
| 20 MHz | QPSK | 1720.0 | -25.81 | -13.00 | 12.81 |
| | | 1732.5 | -27.27 | | 14.27 |
| | | 1745.0 | -26.63 | | 13.63 |
| | 16QAM | 1720.0 | -26.70 | | 13.70 |
| | | 1732.5 | -26.87 | | 13.87 |
| | | 1745.0 | -26.69 | | 13.69 |
| 15 MHz | QPSK | 1717.5 | -25.78 | | 12.78 |
| | | 1732.5 | -27.18 | | 14.18 |
| | | 1747.5 | -26.46 | | 13.46 |
| | 16QAM | 1717.5 | -26.36 | | 13.36 |
| | | 1732.5 | -27.13 | | 14.13 |
| | | 1747.5 | -27.31 | | 14.31 |
| 10 MHz | QPSK | 1715.0 | -26.24 | | 13.24 |
| | | 1732.5 | -27.44 | | 14.44 |
| | | 1750.0 | -27.29 | | 14.29 |
| | 16QAM | 1715.0 | -27.18 | | 14.18 |
| | | 1732.5 | -26.17 | | 13.17 |
| | | 1750.0 | -26.52 | | 13.52 |
| 5 MHz | QPSK | 1712.5 | -27.00 | 14.00 | |
| | | 1732.5 | -25.93 | 12.93 | |
| | | 1752.5 | -25.85 | 12.85 | |
| | 16QAM | 1712.5 | -26.78 | 13.78 | |
| | | 1732.5 | -27.19 | 14.19 | |
| | | 1752.5 | -26.60 | 13.60 | |
| 3 MHz | QPSK | 1711.5 | -25.60 | 12.60 | |
| | | 1732.5 | -26.82 | 13.82 | |
| | | 1753.5 | -26.08 | 13.08 | |
| | 16QAM | 1711.5 | -26.29 | 13.29 | |
| | | 1732.5 | -26.15 | 13.15 | |
| | | 1753.5 | -26.46 | 13.46 | |
| 1.4 MHz | QPSK | 1710.7 | -25.65 | 12.65 | |
| | | 1732.5 | -26.38 | 13.38 | |
| | | 1754.3 | -27.20 | 14.20 | |
| | 16QAM | 1710.7 | -26.25 | 13.25 | |
| | | 1732.5 | -26.62 | 13.62 | |
| | | 1754.3 | -26.75 | 13.75 | |

LTE 2

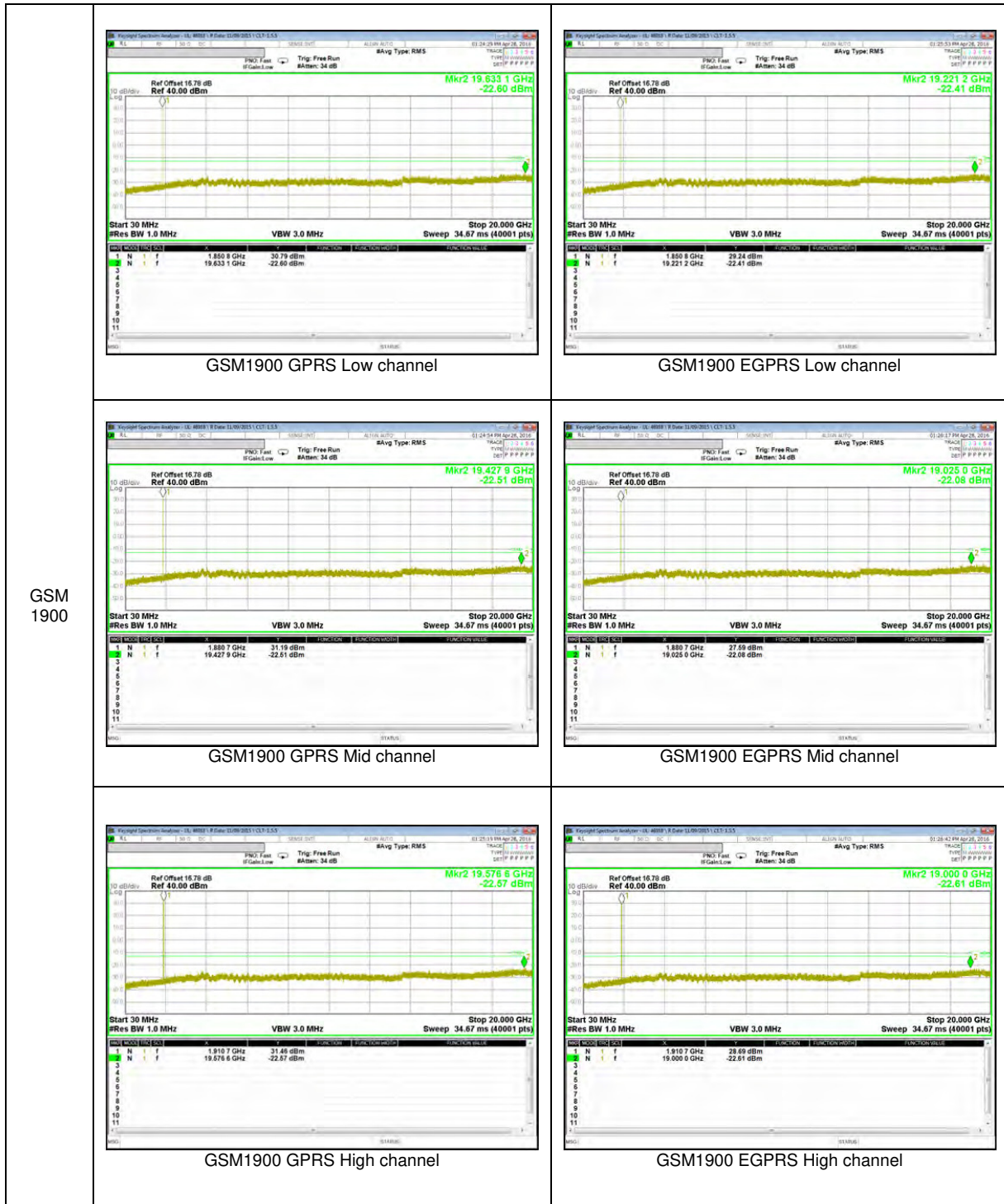
| Bandwidth | Mode | f [MHz] | Spurious [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-------|---------|----------------|-------------|-------------|
| 20 MHz | QPSK | 1860.0 | -27.78 | -13.00 | 14.78 |
| | | 1880.0 | -26.76 | | 13.76 |
| | | 1900.0 | -26.76 | | 13.76 |
| | 16QAM | 1860.0 | -26.12 | | 13.12 |
| | | 1880.0 | -26.23 | | 13.23 |
| | | 1900.0 | -26.38 | | 13.38 |
| 15 MHz | QPSK | 1857.5 | -26.53 | | 13.53 |
| | | 1880.0 | -26.36 | | 13.36 |
| | | 1902.5 | -25.93 | | 12.93 |
| | 16QAM | 1857.5 | -26.89 | | 13.89 |
| | | 1880.0 | -26.51 | | 13.51 |
| | | 1902.5 | -25.68 | | 12.68 |
| 10 MHz | QPSK | 1855.0 | -26.72 | | 13.72 |
| | | 1880.0 | -27.08 | | 14.08 |
| | | 1905.0 | -26.52 | | 13.52 |
| | 16QAM | 1855.0 | -26.08 | | 13.08 |
| | | 1880.0 | -26.66 | | 13.66 |
| | | 1905.0 | -26.93 | | 13.93 |
| 5 MHz | QPSK | 1852.5 | -24.38 | 11.38 | |
| | | 1880.0 | -26.99 | 13.99 | |
| | | 1907.5 | -25.48 | 12.48 | |
| | 16QAM | 1852.5 | -26.55 | 13.55 | |
| | | 1880.0 | -26.69 | 13.69 | |
| | | 1907.5 | -26.33 | 13.33 | |
| 3 MHz | QPSK | 1851.5 | -26.66 | 13.66 | |
| | | 1880.0 | -26.51 | 13.51 | |
| | | 1908.5 | -27.22 | 14.22 | |
| | 16QAM | 1851.5 | -26.76 | 13.76 | |
| | | 1880.0 | -26.61 | 13.61 | |
| | | 1908.5 | -27.78 | 14.78 | |
| 1.4 MHz | QPSK | 1850.7 | -25.52 | 12.52 | |
| | | 1880.0 | -26.48 | 13.48 | |
| | | 1909.3 | -27.58 | 14.58 | |
| | 16QAM | 1850.7 | -26.27 | 13.27 | |
| | | 1880.0 | -26.30 | 13.30 | |
| | | 1909.3 | -26.38 | 13.38 | |

10.3.2. OUT OF BAND EMISSIONS PLOTS

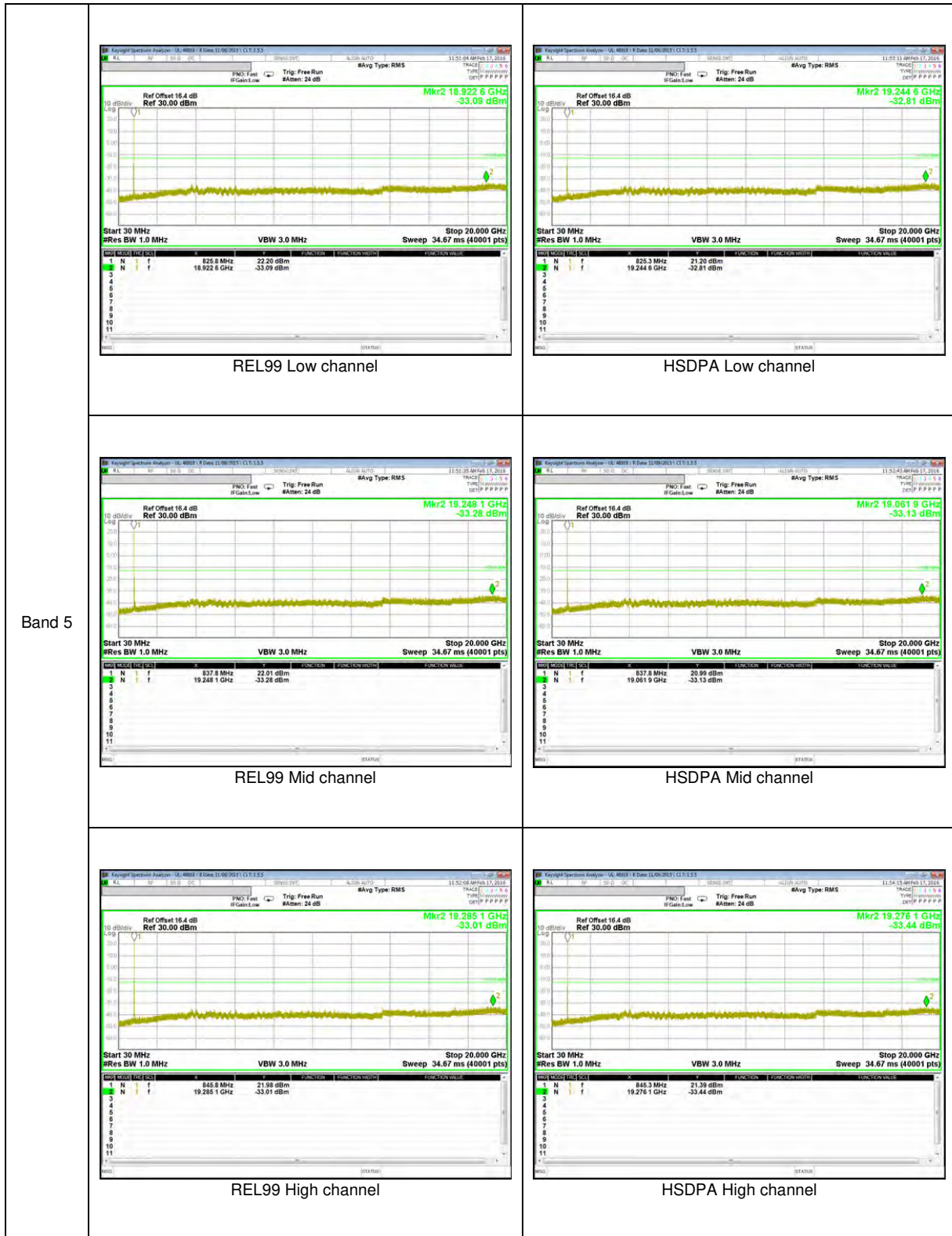
GSM 850



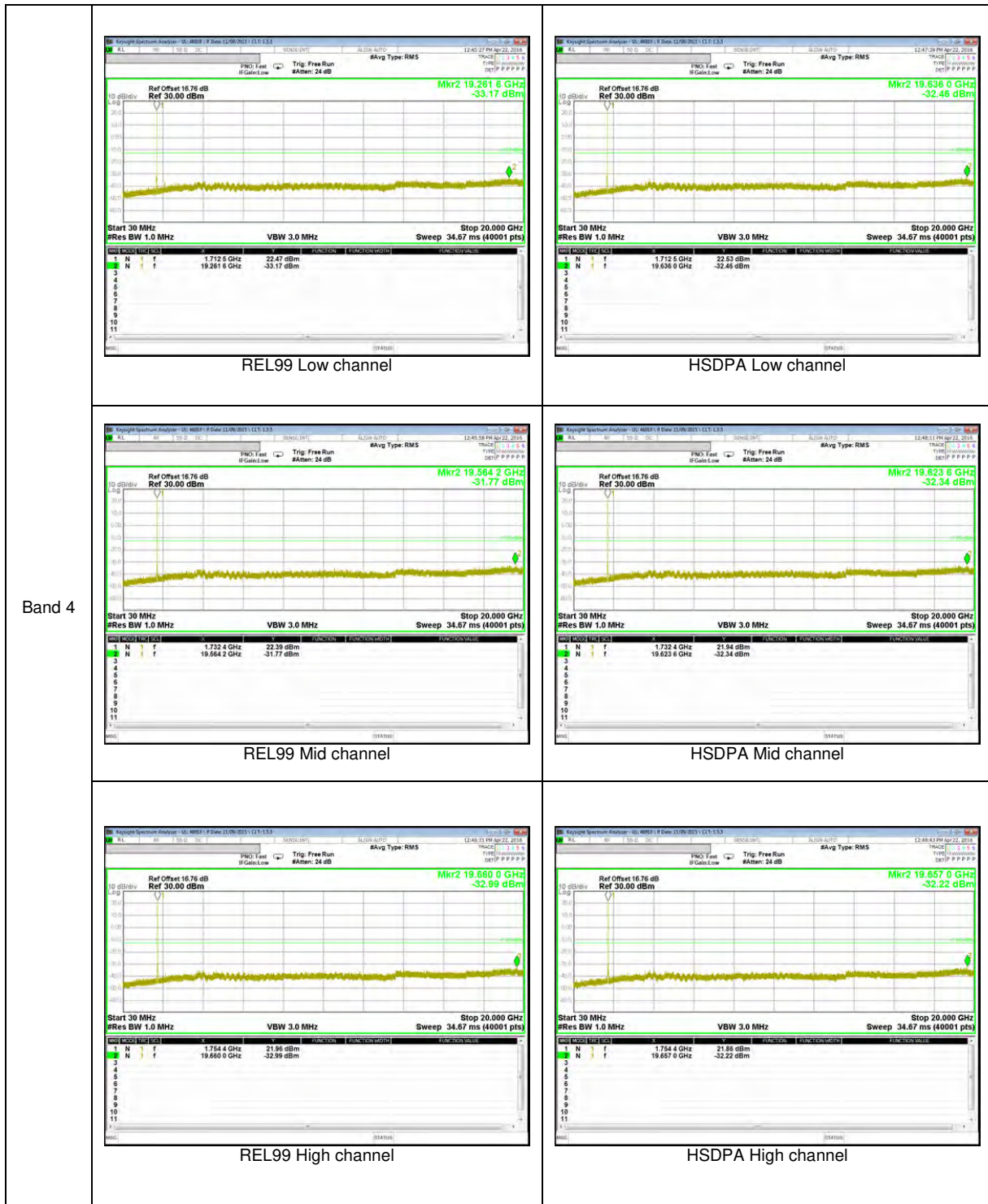
GSM 1900



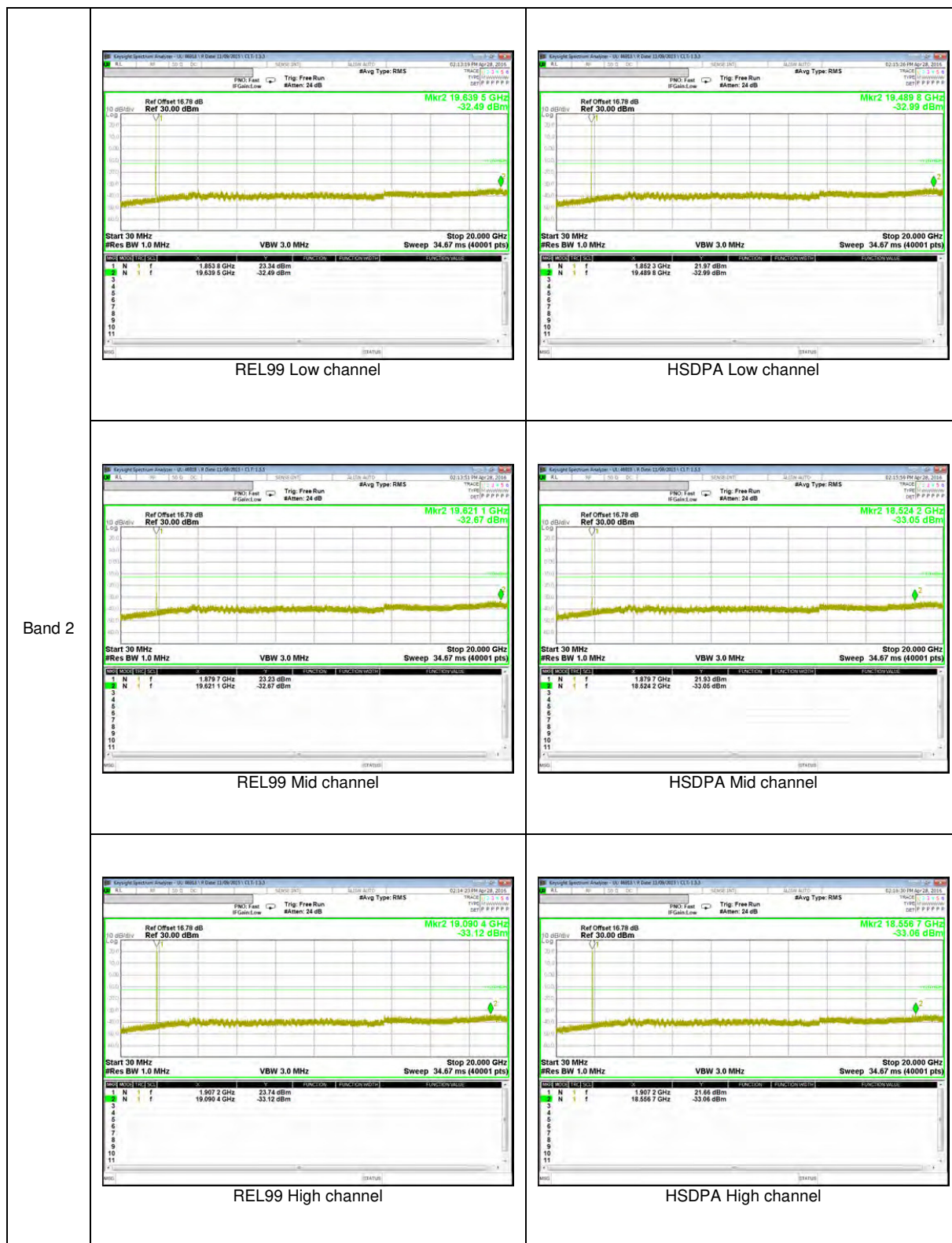
WCDMA B5



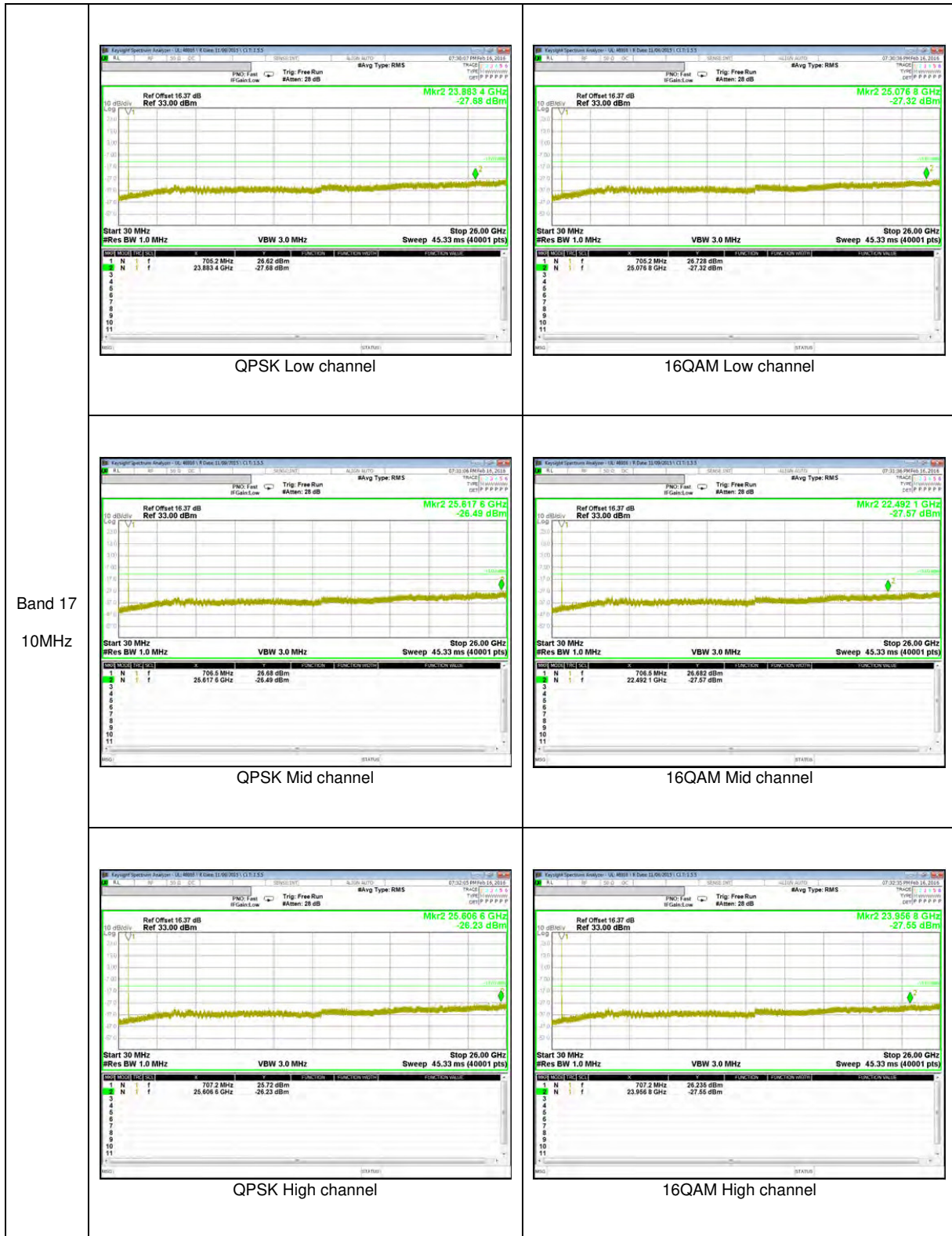
WCDMA B4

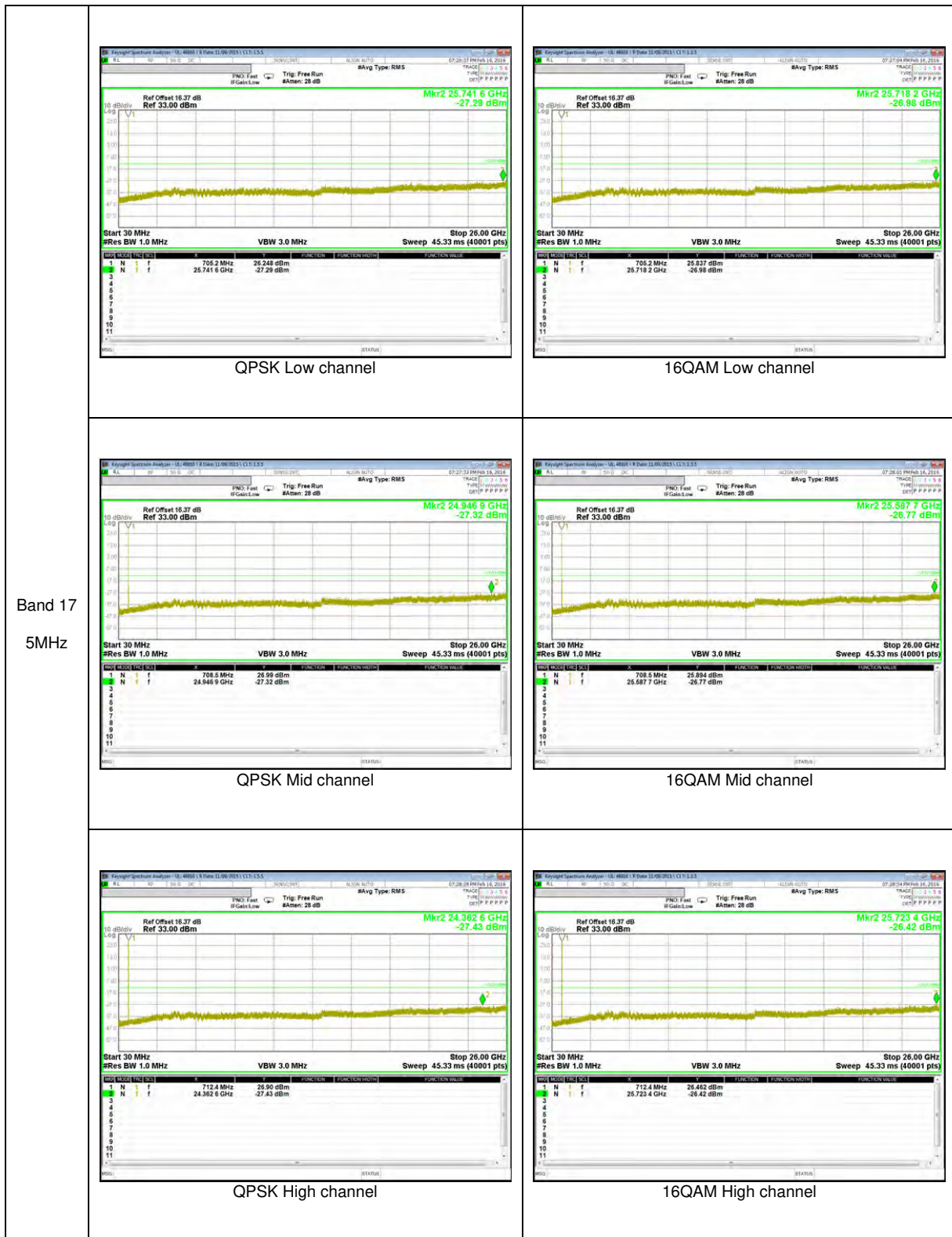


WCDMA B2

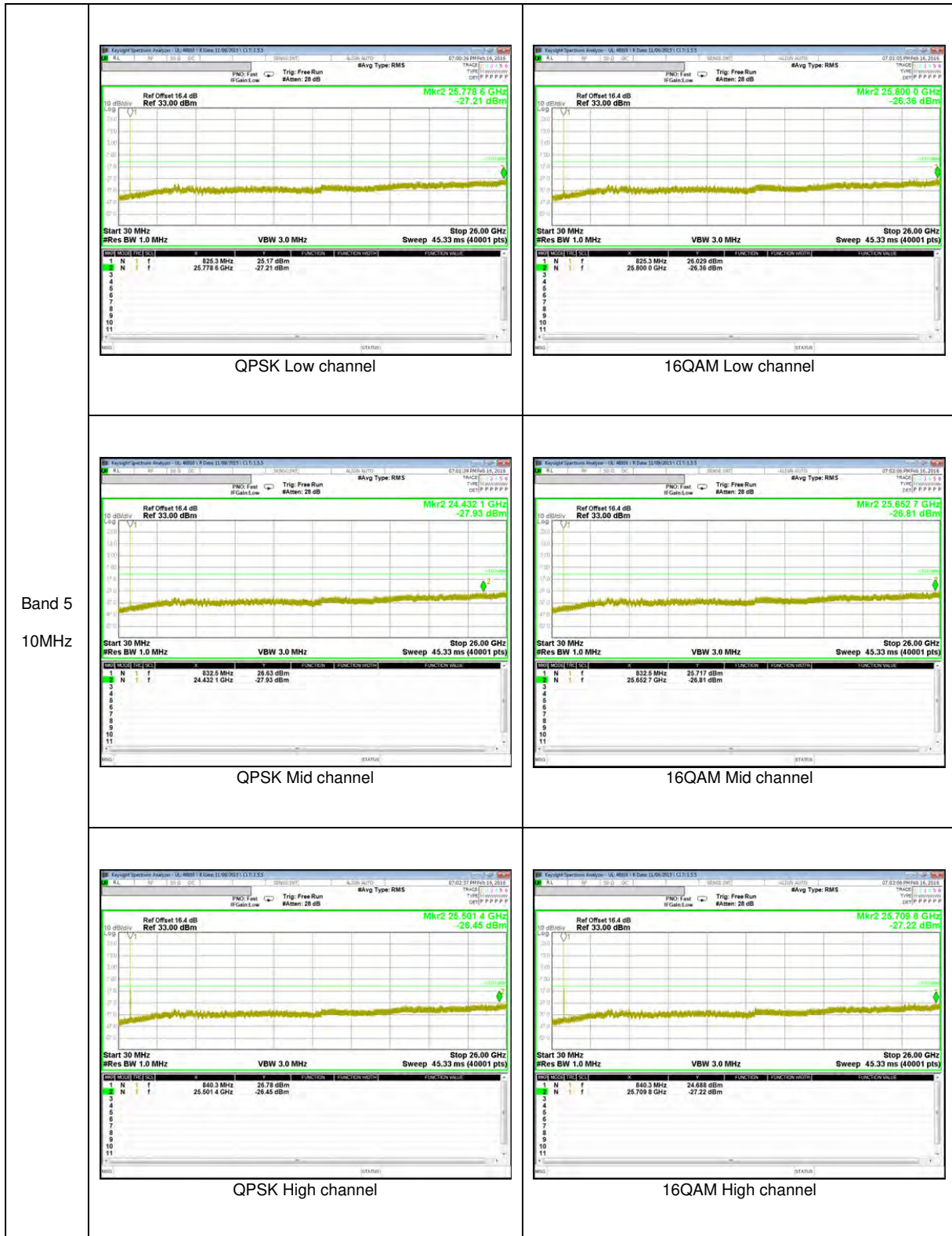


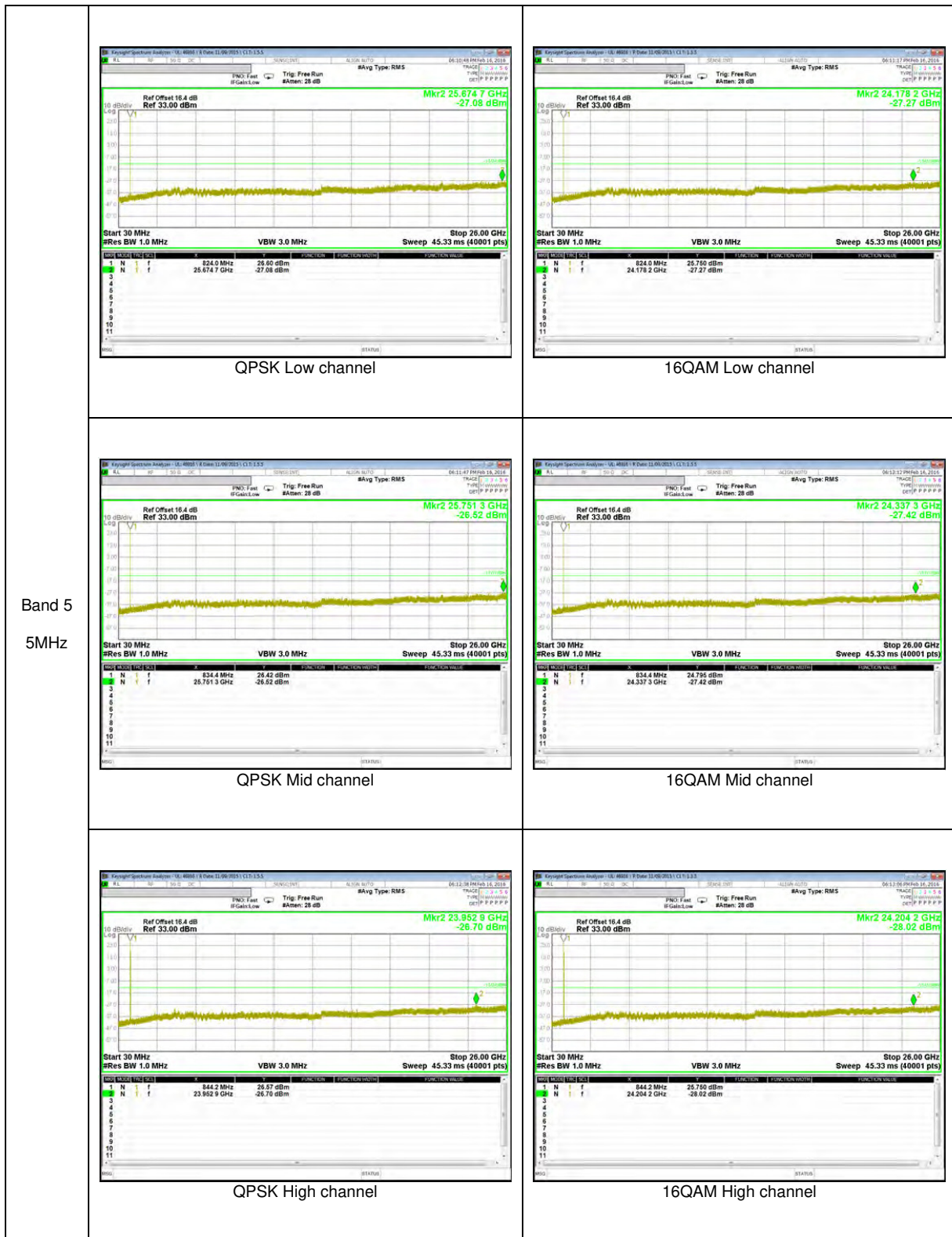
LTE Band 17

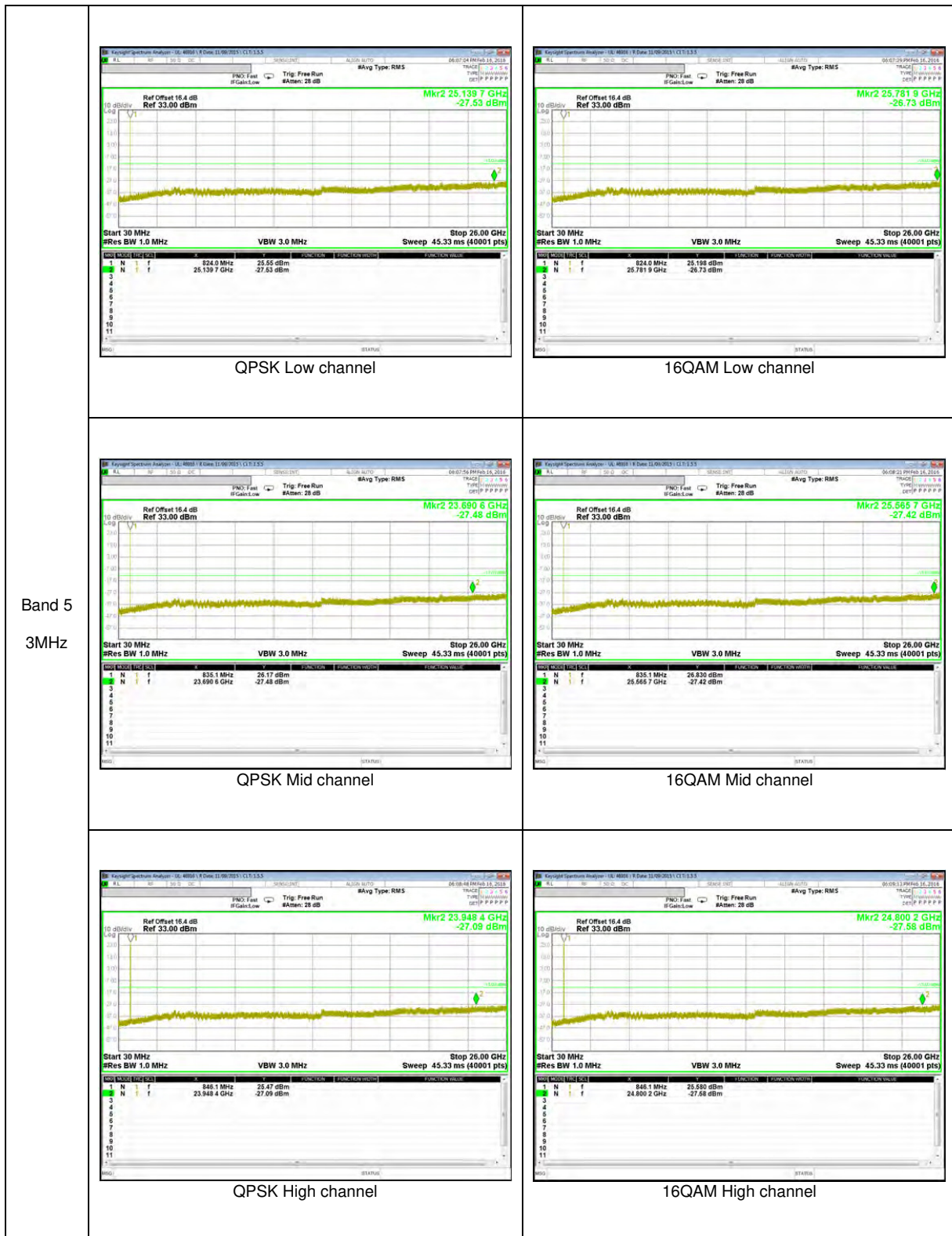


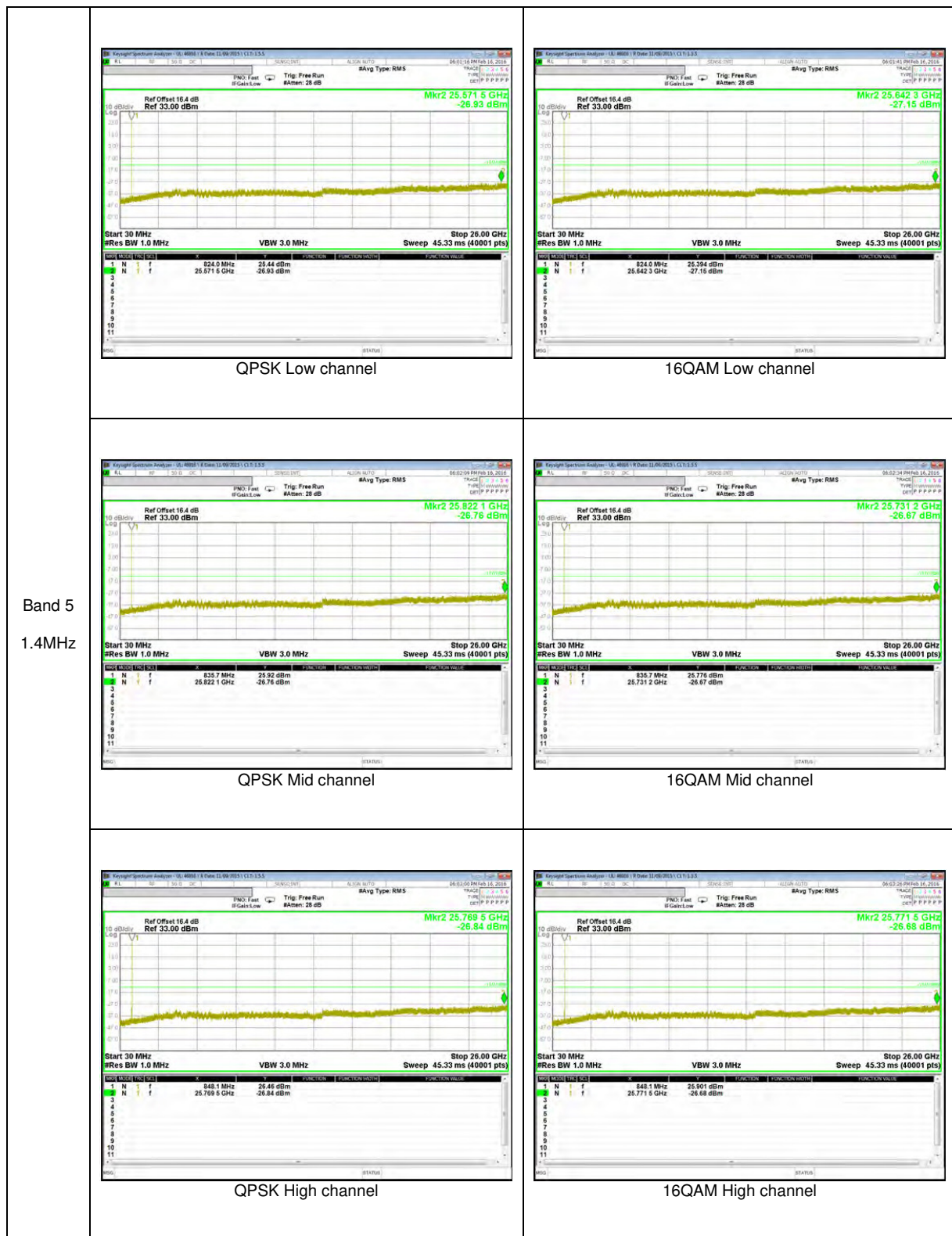


LTE Band 5

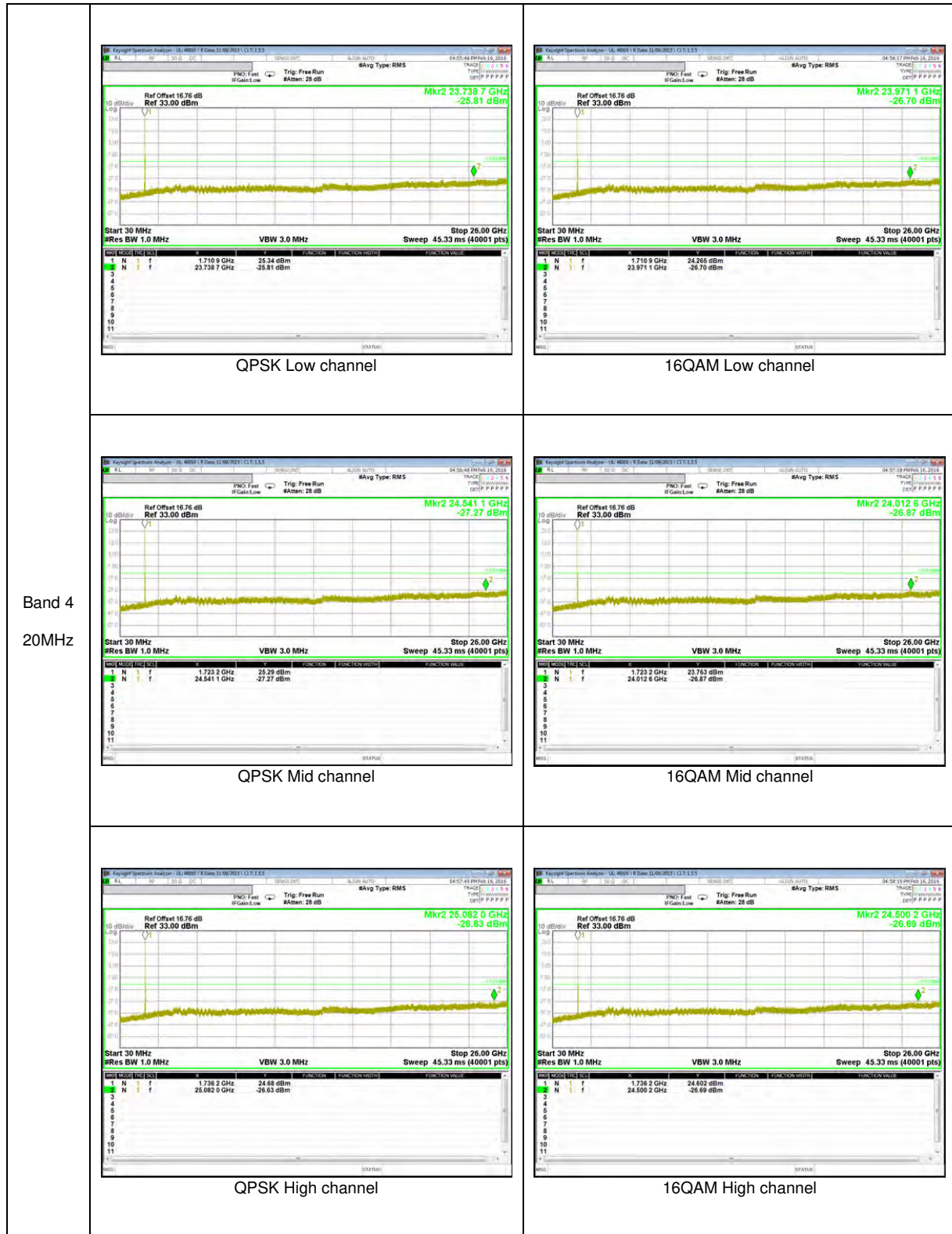


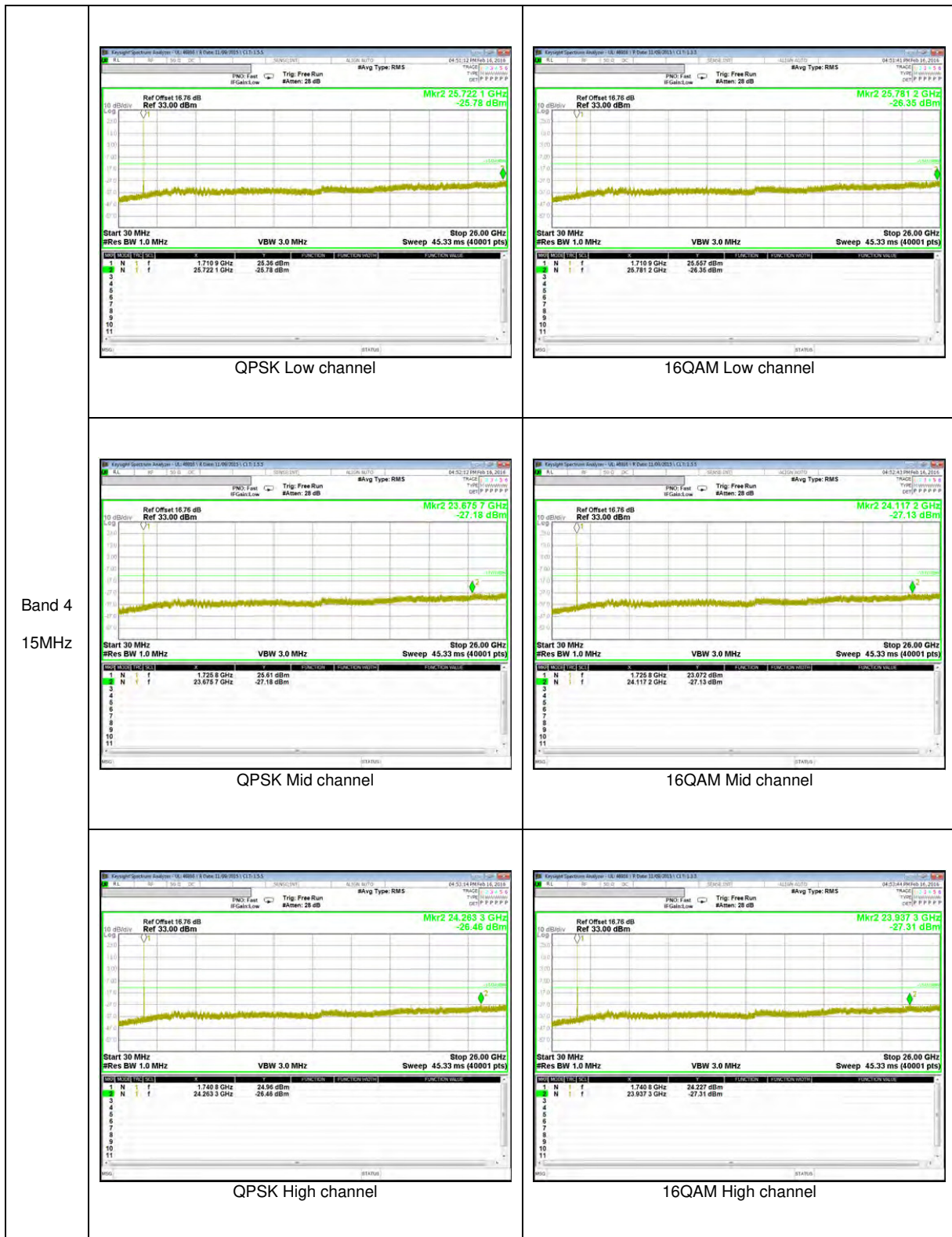


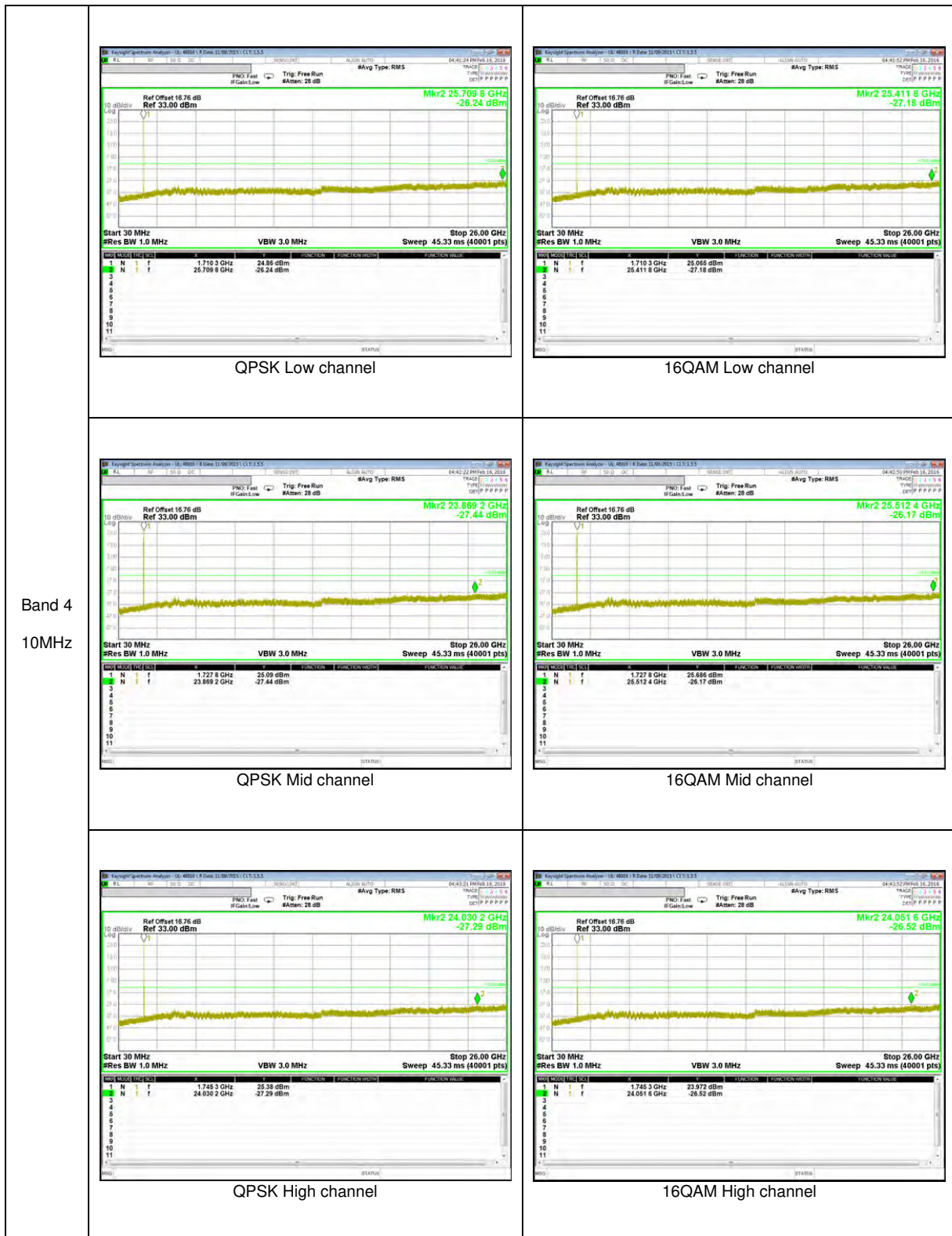


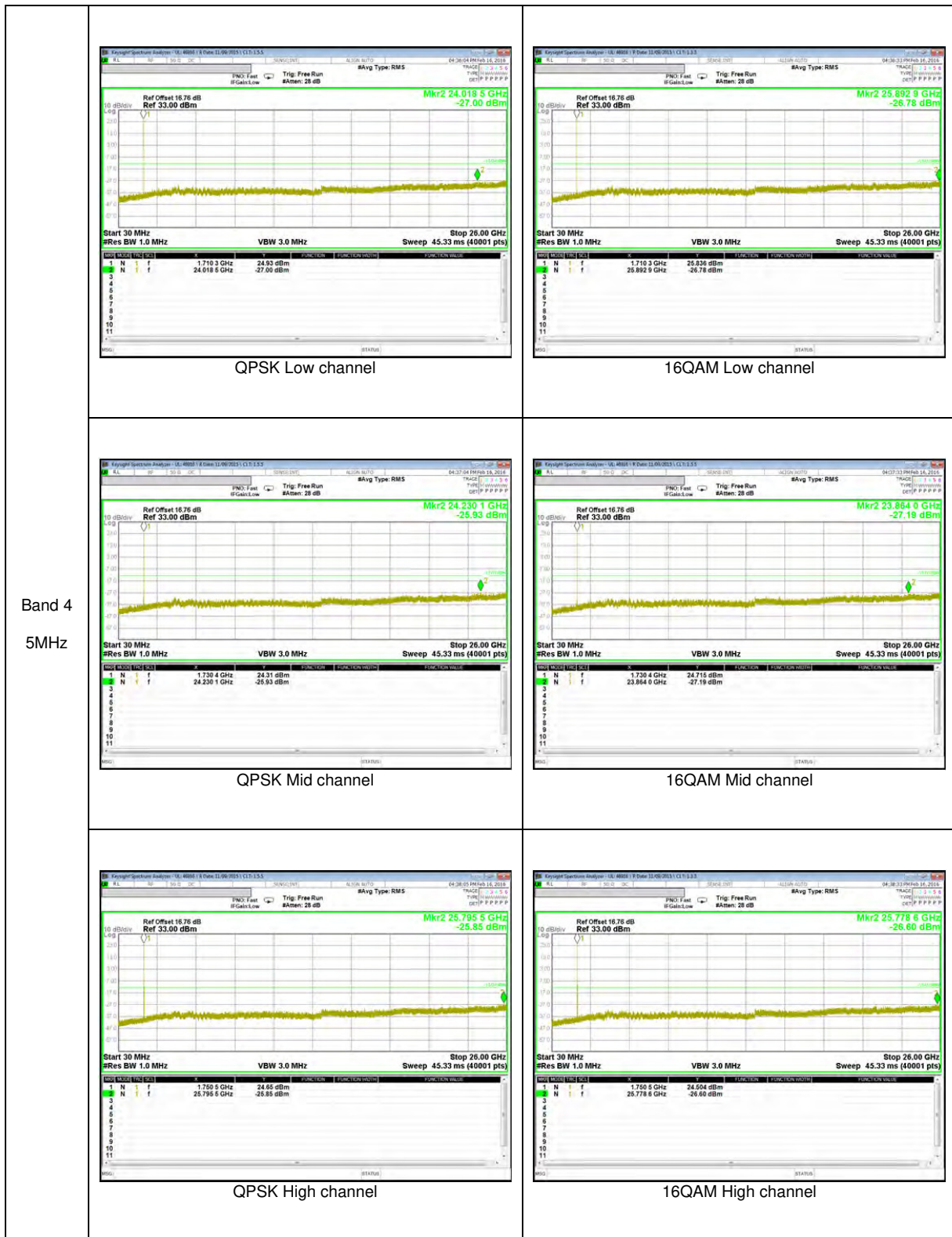


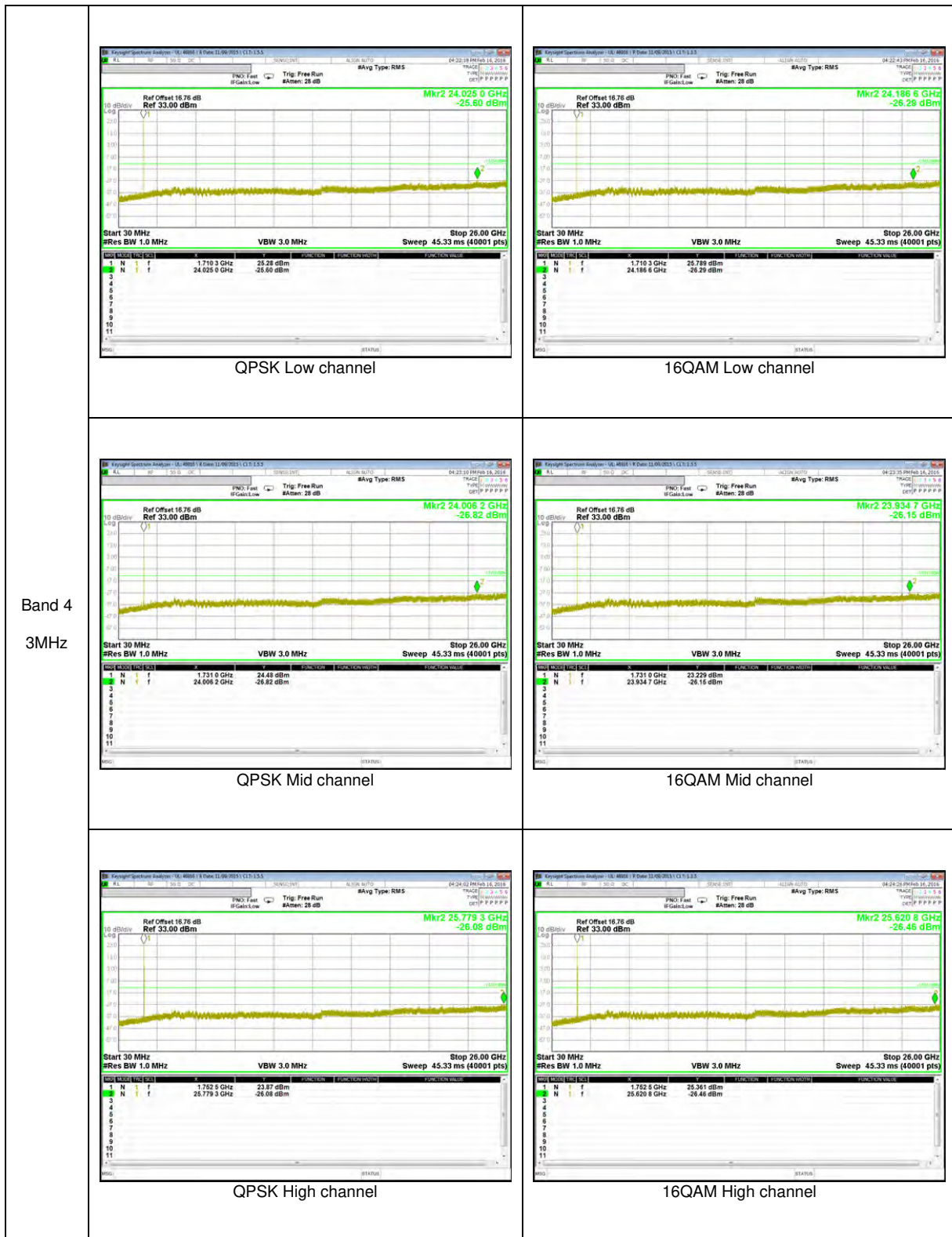
LTE Band 4

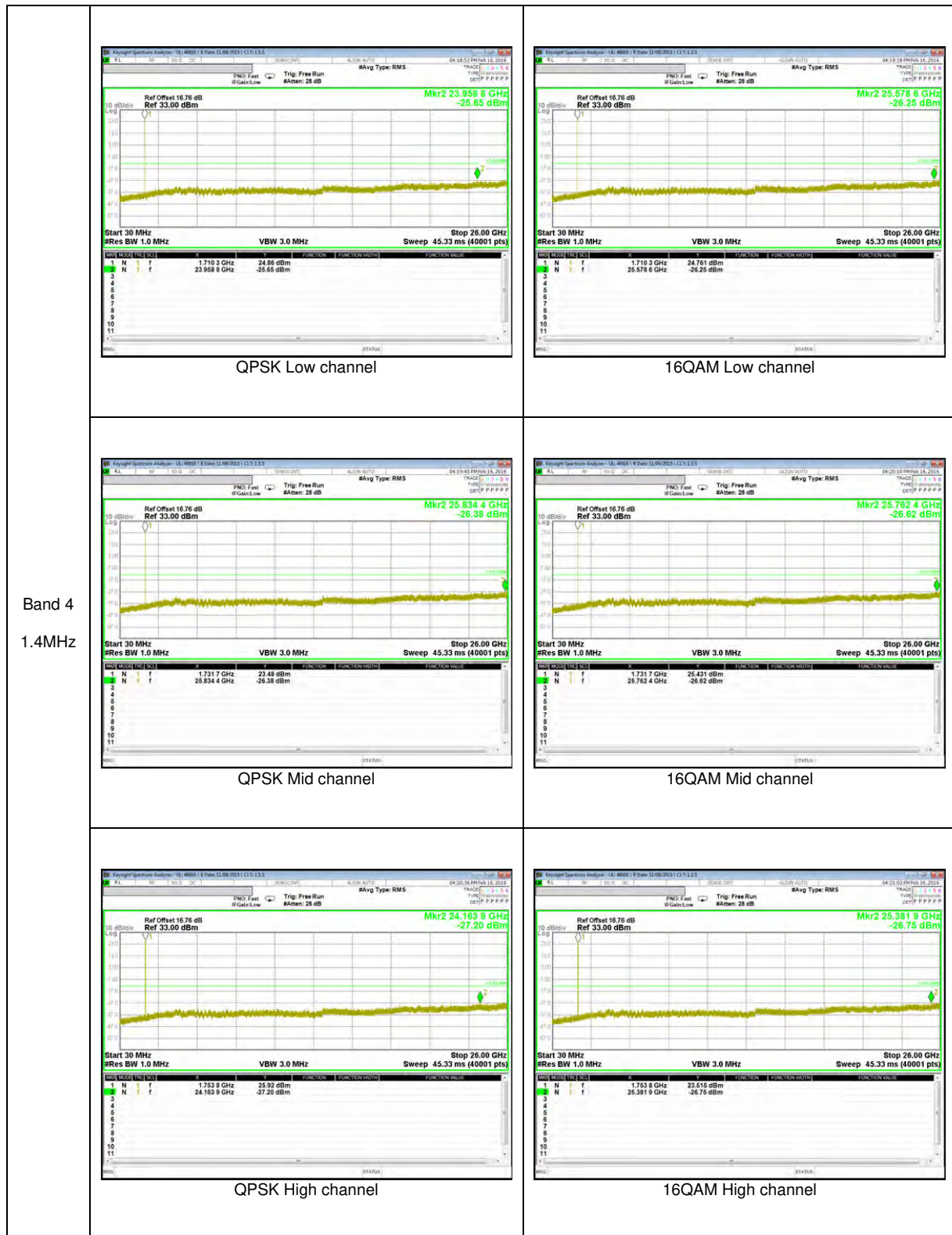




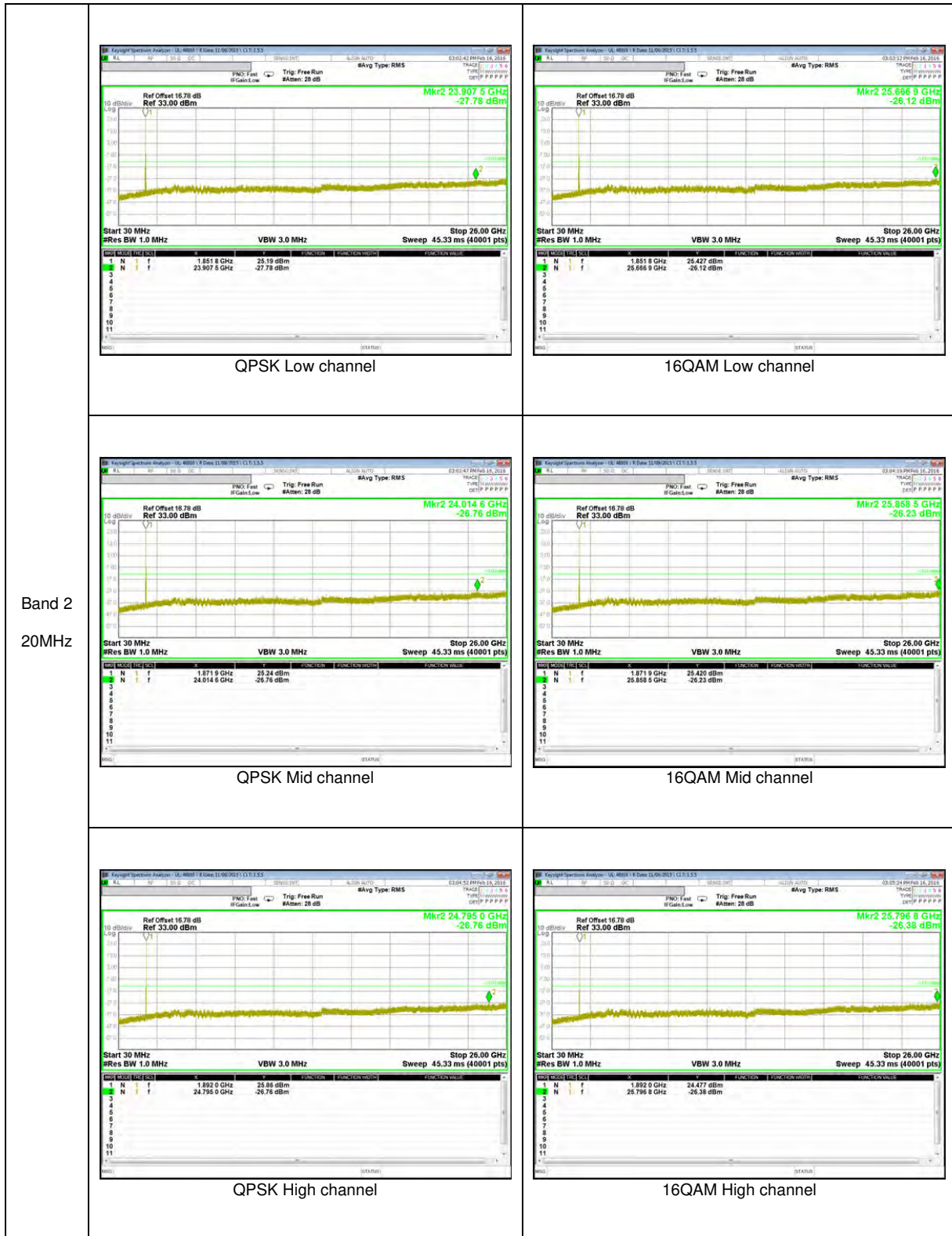


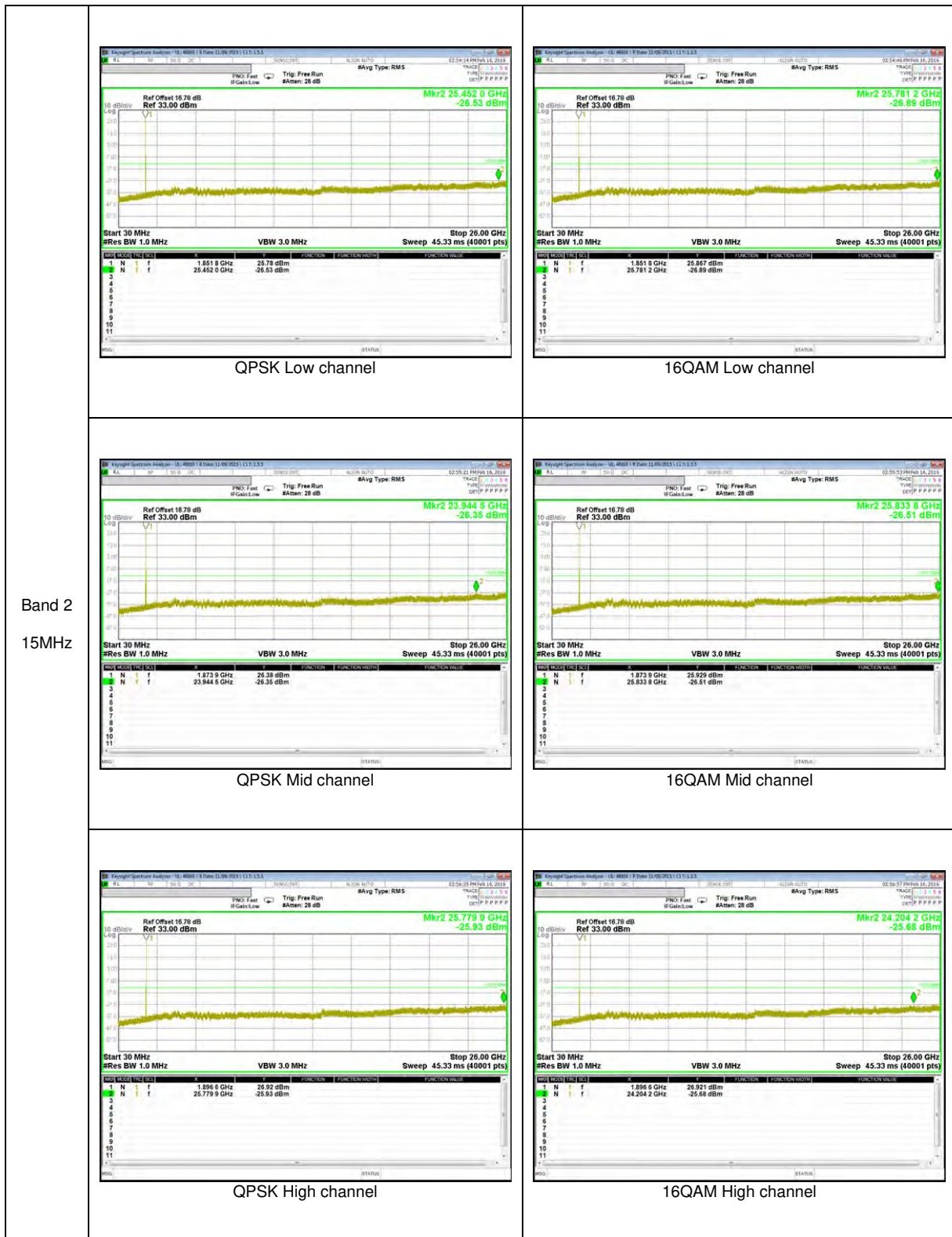


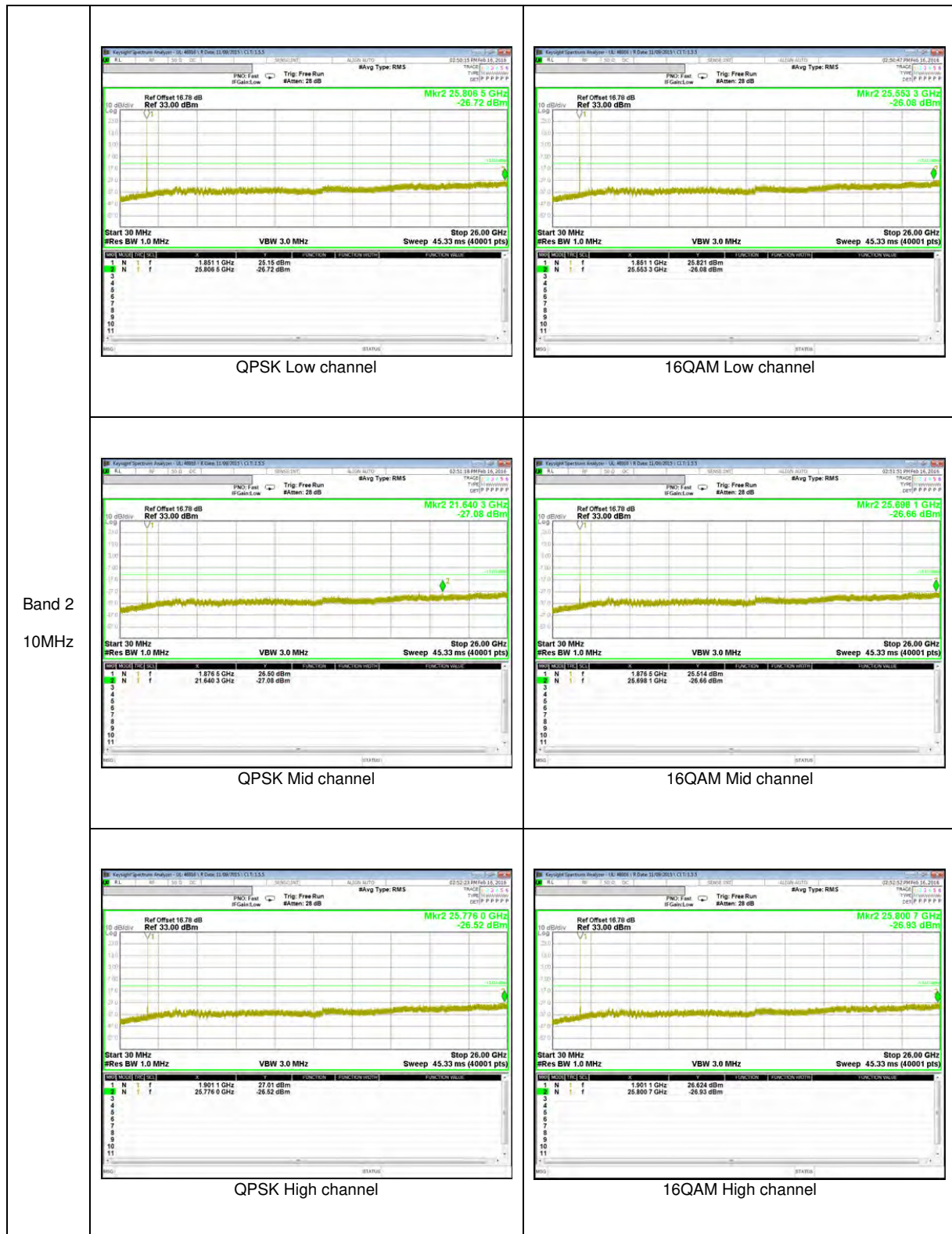


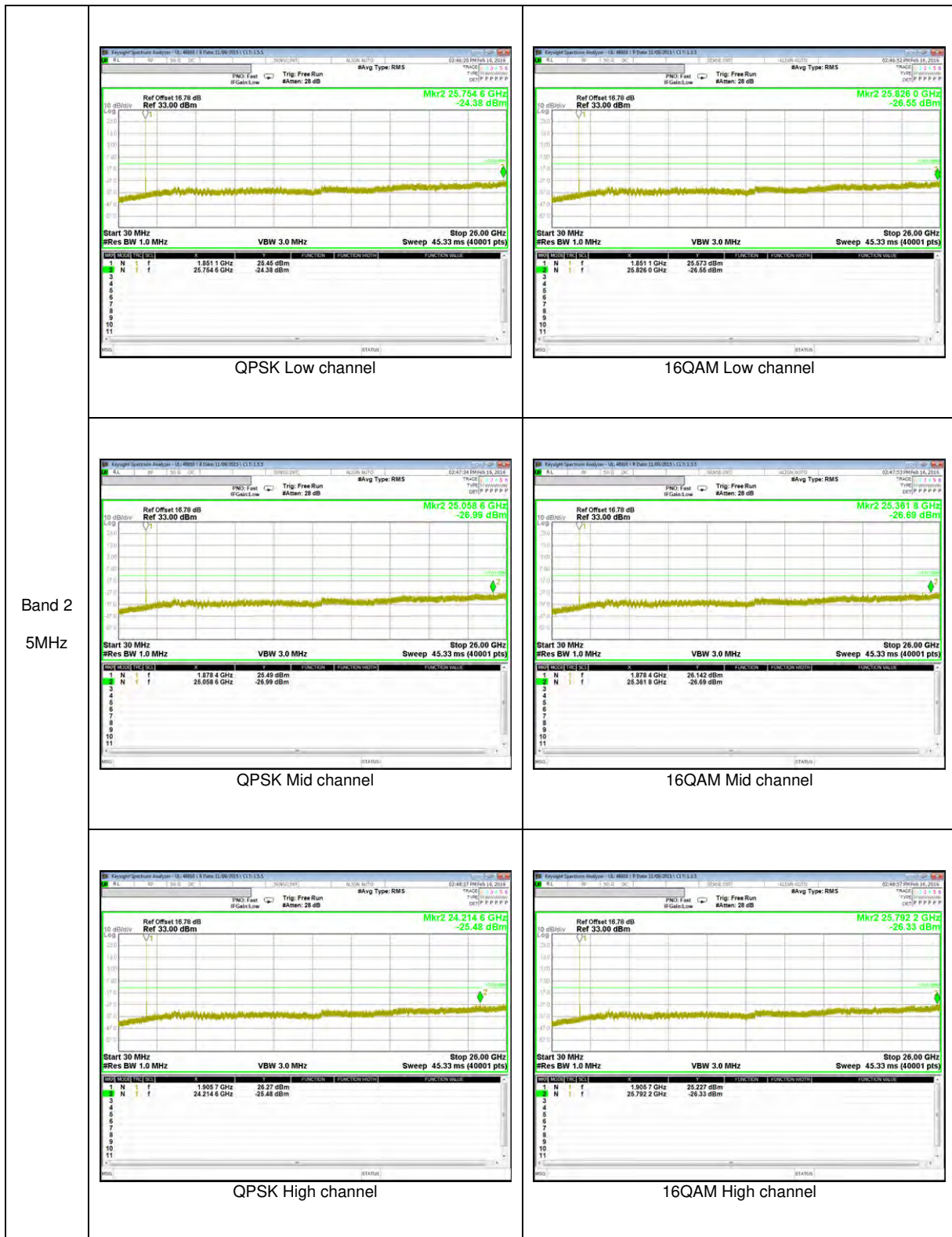


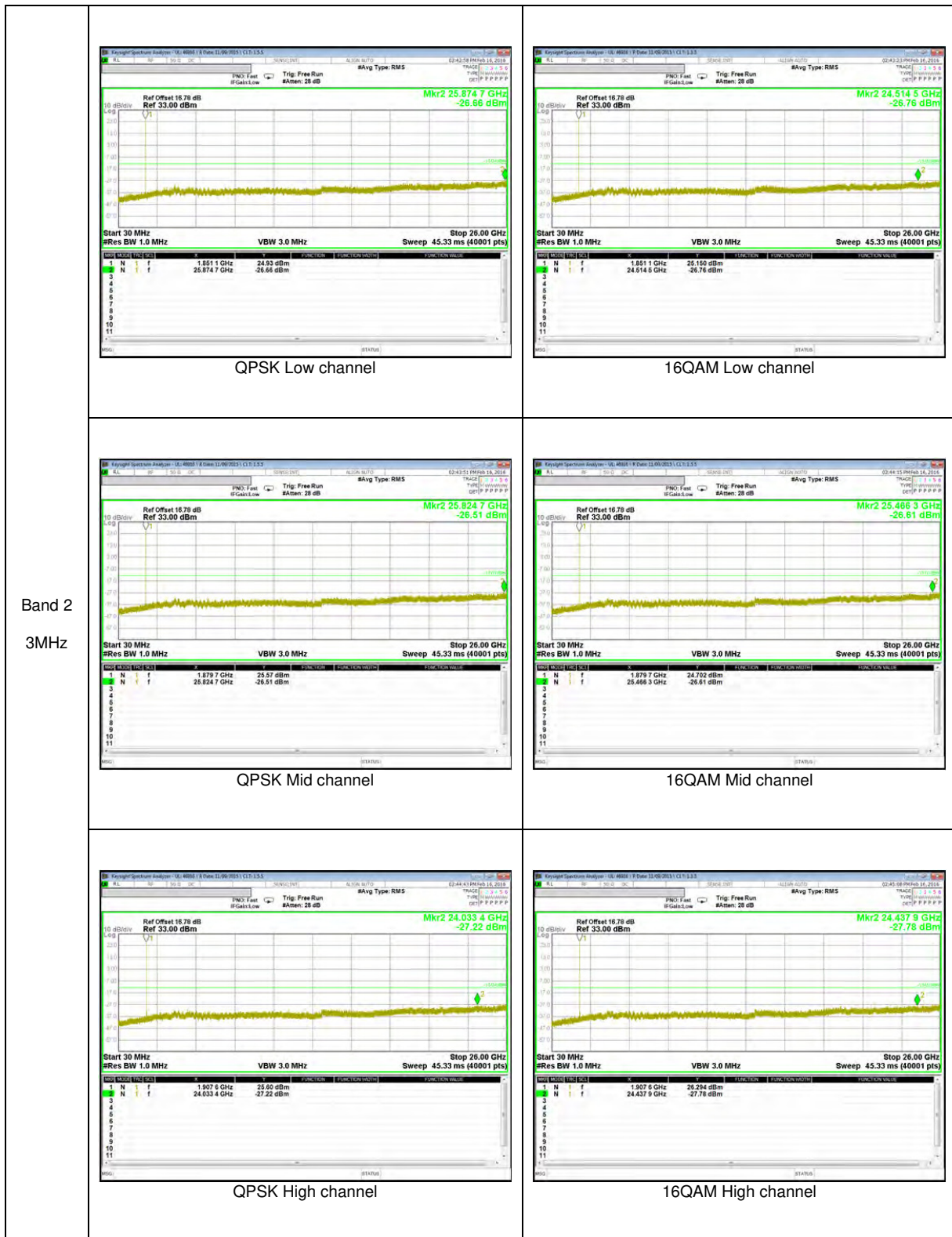
LTE Band 2

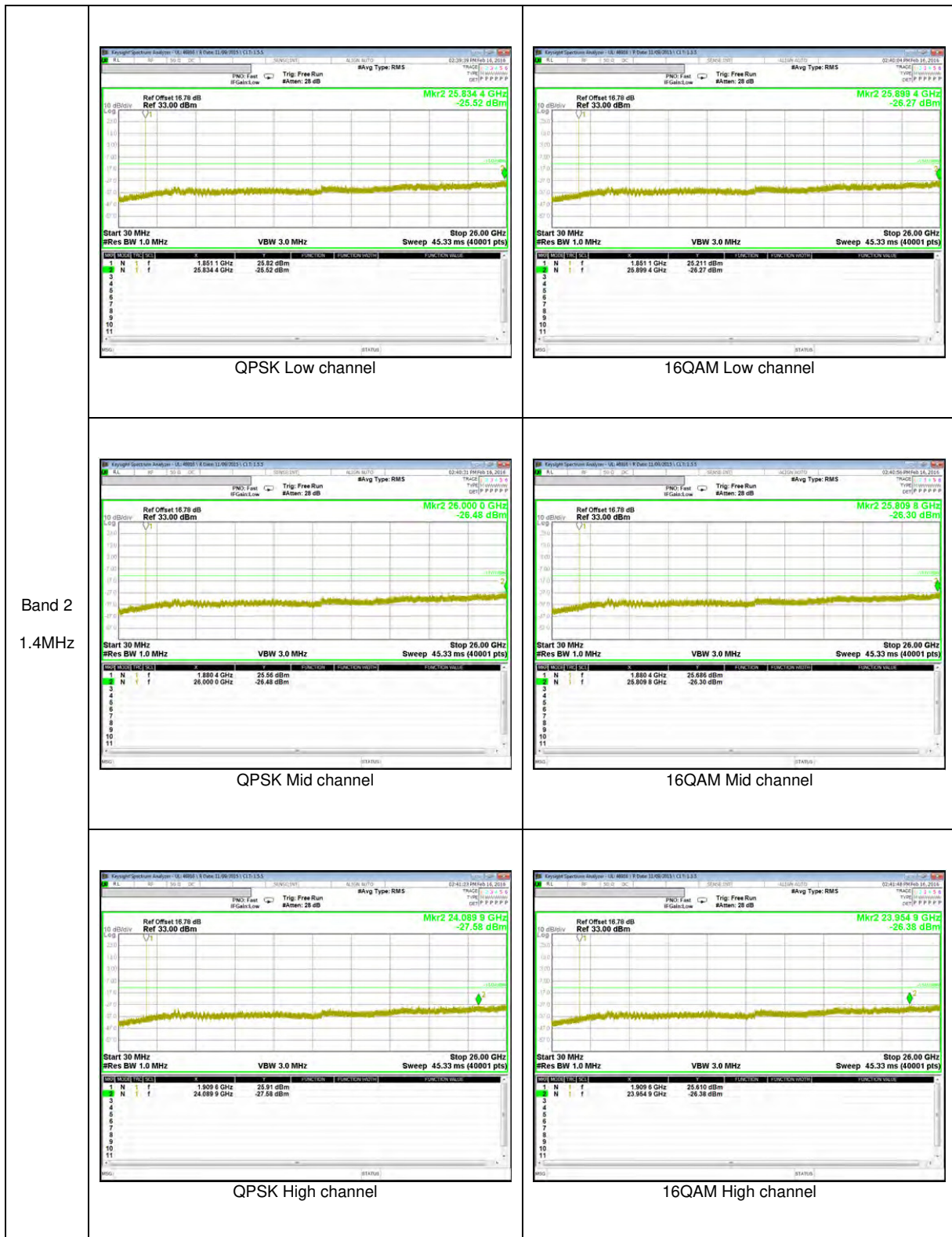












10.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235 and §27.54

LIMITS

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

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

RESULTS

See the following pages.

10.4.1. FREQUENCY STABILITY RESULTS

LTE Band 17, Channel 23790, Frequency 710.0 MHz

| Reference Frequency: LTE Band 17 Mid Channel 710.0 MHz @ 20°C | | | | |
|---|------------------------------|---|-------------|-------------|
| Limit: +/- 2.5 ppm = 1775.000 Hz | | | | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | |
| | | [MHz] | Delta [ppm] | Limit [ppm] |
| 3.80 | 50 | 709.99999720 | 0.001 | 2.5 |
| 3.80 | 40 | 709.99999744 | 0.000 | 2.5 |
| 3.80 | 30 | 709.99999761 | 0.000 | 2.5 |
| 3.80 | 20 | 709.99999758 | 0 | 2.5 |
| 3.80 | 10 | 709.99999648 | 0.002 | 2.5 |
| 3.80 | 0 | 709.99999511 | 0.003 | 2.5 |
| 3.80 | -10 | 709.99999734 | 0.000 | 2.5 |
| 3.80 | -20 | 709.99999754 | 0.000 | 2.5 |
| 3.80 | -30 | 709.99999678 | 0.001 | 2.5 |

| Reference Frequency: LTE Band 17 Mid Channel 710.0 MHz @ 20°C | | | | |
|---|------------------------------|---|-------------|-------------|
| Limit: +/- 2.5 ppm = 1775.000 Hz | | | | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | |
| | | [MHz] | Delta [ppm] | Limit [ppm] |
| 3.85 | 20 | 709.99999758 | 0 | 2.5 |
| 4.20 | 20 | 709.99999733 | 0.000 | 2.5 |
| 3.40 | 20 | 709.99999721 | 0.001 | 2.5 |

LTE Band 5, Channel 20524, Frequency 836.5 MHz

WCDMA Band 5, Channel 4183, Frequency 836.6 MHz

GSM 850, Channel 190, Frequency 836.6 MHz

| Reference Frequency: LTE Band 5 Mid Channel 836.5 MHz @ 20°C | | | | |
|--|------------------------------|---|-------------|-------------|
| Limit: +/- 2.5 ppm = 2091.250 Hz | | | | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | |
| | | [MHz] | Delta [ppm] | Limit [ppm] |
| 3.80 | 50 | 836.50000246 | -0.006 | 2.5 |
| 3.80 | 40 | 836.50000196 | -0.006 | 2.5 |
| 3.80 | 30 | 836.49999640 | 0.001 | 2.5 |
| 3.80 | 20 | 836.49999718 | 0 | 2.5 |
| 3.80 | 10 | 836.49999651 | 0.001 | 2.5 |
| 3.80 | 0 | 836.49999502 | 0.003 | 2.5 |
| 3.80 | -10 | 836.49999729 | 0.000 | 2.5 |
| 3.80 | -20 | 836.49999648 | 0.001 | 2.5 |
| 3.80 | -30 | 836.49999657 | 0.001 | 2.5 |

| Reference Frequency: LTE Band 5 Mid Channel 836.5 MHz @ 20°C | | | | |
|--|------------------------------|---|-------------|-------------|
| Limit: +/- 2.5 ppm = 2091.250 Hz | | | | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | |
| | | [MHz] | Delta [ppm] | Limit [ppm] |
| 3.85 | 20 | 836.49999718 | 0 | 2.5 |
| 4.20 | 20 | 836.49999692 | 0.000 | 2.5 |
| 3.40 | 20 | 836.49999721 | 0.000 | 2.5 |

LTE Band 4, Channel 20174, Frequency 1732.5 MHz

WCDMA Band 4, Channel 1413, Frequency 1732.6 MHz

| Reference Frequency: LTE Band 4 Mid Channel 1732.5 MHz @ 20°C | | | | |
|---|------------------------------|---|-------------|-------------|
| Limit: +/- 2.5 ppm = 4331.250 Hz | | | | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | |
| | | [MHz] | Delta [ppm] | Limit [ppm] |
| 3.80 | 50 | 1732.49999146 | 0.009 | 2.5 |
| 3.80 | 40 | 1732.49999260 | 0.009 | 2.5 |
| 3.80 | 30 | 1732.49998854 | 0.011 | 2.5 |
| 3.80 | 20 | 1732.50000784 | 0 | 2.5 |
| 3.80 | 10 | 1732.50000834 | 0.000 | 2.5 |
| 3.80 | 0 | 1732.49999169 | 0.009 | 2.5 |
| 3.80 | -10 | 1732.50000875 | -0.001 | 2.5 |
| 3.80 | -20 | 1732.50000830 | 0.000 | 2.5 |
| 3.80 | -30 | 1732.50001267 | -0.003 | 2.5 |

| Reference Frequency: LTE Band 4 Mid Channel 1732.5 MHz @ 20°C | | | | |
|---|------------------------------|---|-------------|-------------|
| Limit: +/- 2.5 ppm = 4331.250 Hz | | | | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | |
| | | [MHz] | Delta [ppm] | Limit [ppm] |
| 3.80 | 20 | 1732.50000784 | 0 | 2.5 |
| 4.20 | 20 | 1732.49998943 | 0.011 | 2.5 |
| 3.40 | 20 | 1732.49998946 | 0.011 | 2.5 |

LTE Band 2, Channel 18900, Frequency 1880.0 MHz

WCDMA Band 2, Channel 9400, Frequency 1880.0 MHz

GSM 1900, Channel 661, Frequency 1880.0 MHz

| Reference Frequency: LTE Band 2 Mid Channel 1880.0 MHz @ 20°C | | | | |
|---|------------------------------|---|-------------|-------------|
| Limit: +/- 2.5 ppm = 4700.000 Hz | | | | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | |
| | | [MHz] | Delta [ppm] | Limit [ppm] |
| 3.80 | 50 | 1879.99999283 | -0.001 | 2.5 |
| 3.80 | 40 | 1879.99999268 | -0.001 | 2.5 |
| 3.80 | 30 | 1879.99999316 | -0.001 | 2.5 |
| 3.80 | 20 | 1879.99999140 | 0 | 2.5 |
| 3.80 | 10 | 1879.99999348 | -0.001 | 2.5 |
| 3.80 | 0 | 1879.99999201 | 0.000 | 2.5 |
| 3.80 | -10 | 1879.99999174 | 0.000 | 2.5 |
| 3.80 | -20 | 1879.99999235 | -0.001 | 2.5 |
| 3.80 | -30 | 1879.99999292 | -0.001 | 2.5 |

| Reference Frequency: LTE Band 2 Mid Channel 1880.0 MHz @ 20°C | | | | |
|---|------------------------------|---|-------------|-------------|
| Limit: +/- 2.5 ppm = 4700.000 Hz | | | | |
| Power Supply [Vdc] | Environment Temperature [°C] | Frequency Deviation Measured with Time Elapse | | |
| | | [MHz] | Delta [ppm] | Limit [ppm] |
| 3.85 | 20 | 1879.99999140 | 0 | 2.5 |
| 4.20 | 20 | 1879.99999293 | -0.001 | 2.5 |
| 3.40 | 20 | 1879.99999017 | 0.001 | 2.5 |

11. RADIATED TEST RESULTS

11.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232 and §27.50

LIMITS

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

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP; (LTE B17)

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.(Band 4)

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 603D Clause 2.2.17; MXA setting reference to 971168 D01 v02r02

For peak power measurement with a MXA:

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; e) Detector = peak; f) Ensure that the number of measurement points \geq span/RBW; g) Trace mode = max hold;

For average power measurement with a MXA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW $\geq 3 \times$ RBW; d) Set number of points in sweep $\geq 2 \times$ span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle ≥ 98 ; h) Use trigger to capture bursts If burst duty cycle < 98 ; i) Trace average at least 100 traces in power averaging (*i.e.*, RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

11.1.1. ERP/EIRP Results

GSM

| Band | Mode | Channel | f [MHz] | ERP / EIRP | |
|---------|-------|---------|---------|------------|---------|
| | | | | [dBm] | [mW] |
| GSM850 | GPRS | 128 | 824.2 | 29.85 | 966.05 |
| | | 190 | 836.6 | 28.43 | 696.63 |
| | | 251 | 848.8 | 27.83 | 606.74 |
| | EGPRS | 128 | 824.2 | 26.23 | 419.76 |
| | | 190 | 836.6 | 24.30 | 269.15 |
| | | 251 | 848.8 | 22.66 | 184.50 |
| GSM1900 | GPRS | 512 | 1850.2 | 31.75 | 1496.24 |
| | | 661 | 1880.0 | 30.30 | 1071.52 |
| | | 810 | 1909.8 | 30.50 | 1122.02 |
| | EGPRS | 512 | 1850.2 | 27.99 | 629.51 |
| | | 661 | 1880.0 | 27.58 | 572.80 |
| | | 810 | 1909.8 | 27.19 | 523.60 |

WCDMA

| Band | Mode | Channel | f [MHz] | ERP / EIRP | |
|--------|-------|---------|---------|------------|--------|
| | | | | [dBm] | [mW] |
| Band 5 | REL99 | 4132 | 826.4 | 19.09 | 81.10 |
| | | 4183 | 836.6 | 17.84 | 60.81 |
| | | 4233 | 846.6 | 17.58 | 57.28 |
| | HSDPA | 4132 | 826.4 | 20.45 | 110.92 |
| | | 4183 | 836.6 | 19.25 | 84.14 |
| | | 4233 | 846.6 | 18.44 | 69.82 |
| Band 4 | REL99 | 1312 | 1712.4 | 24.42 | 276.69 |
| | | 1413 | 1732.6 | 21.71 | 148.25 |
| | | 1513 | 1752.6 | 21.66 | 146.55 |
| | HSDPA | 1312 | 1712.4 | 23.45 | 221.31 |
| | | 1413 | 1732.6 | 22.75 | 188.36 |
| | | 1513 | 1752.6 | 22.69 | 185.78 |
| Band 2 | REL99 | 9262 | 1852.4 | 25.35 | 342.77 |
| | | 9400 | 1880.0 | 22.89 | 194.54 |
| | | 9538 | 1907.6 | 22.84 | 192.31 |
| | HSDPA | 9262 | 1852.4 | 22.27 | 168.66 |
| | | 9400 | 1880.0 | 20.79 | 119.95 |
| | | 9538 | 1907.6 | 21.05 | 127.35 |

LTE Band 17

| Band | BW [MHz] | Mode | RB/RB Size | f [MHz] | ERP / EIRP | |
|---------|----------|-------|------------|---------|------------|-------|
| | | | Full RB | | [dBm] | [mW] |
| Band 17 | 10 | QPSK | 50/0 | 709.0 | 12.92 | 19.59 |
| | | | 50/0 | 710.0 | 12.74 | 18.79 |
| | | | 50/0 | 711.0 | 12.71 | 18.66 |
| | | 16QAM | 50/0 | 709.0 | 11.95 | 15.67 |
| | | | 50/0 | 710.0 | 11.73 | 14.89 |
| | | | 50/0 | 711.0 | 11.69 | 14.76 |
| | 5 | QPSK | 25/0 | 706.5 | 12.98 | 19.86 |
| | | | 25/0 | 710.0 | 11.92 | 15.56 |
| | | | 25/0 | 713.5 | 11.52 | 14.19 |
| | | 16QAM | 25/0 | 706.5 | 12.03 | 15.96 |
| | | | 25/0 | 710.0 | 10.97 | 12.50 |
| | | | 25/0 | 713.5 | 10.49 | 11.19 |

LTE Band 5

| Band | BW [MHz] | Mode | RB/RB Size | f [MHz] | ERP / EIRP | |
|--------|----------|-------|------------|---------|------------|--------|
| | | | Full RB | | [dBm] | [mW] |
| Band 5 | 10 | QPSK | 50/0 | 829.0 | 20.48 | 111.69 |
| | | | 50/0 | 836.5 | 19.96 | 99.08 |
| | | | 50/0 | 844.0 | 19.50 | 89.13 |
| | | 16QAM | 50/0 | 829.0 | 19.52 | 89.54 |
| | | | 50/0 | 836.5 | 18.97 | 78.89 |
| | | | 50/0 | 844.0 | 18.48 | 70.47 |
| | 5 | QPSK | 25/0 | 826.5 | 20.27 | 106.41 |
| | | | 25/0 | 836.5 | 19.80 | 95.50 |
| | | | 25/0 | 846.5 | 18.77 | 75.34 |
| | | 16QAM | 25/0 | 826.5 | 19.33 | 85.70 |
| | | | 25/0 | 836.5 | 18.76 | 75.16 |
| | | | 25/0 | 846.5 | 18.31 | 67.76 |
| | 3 | QPSK | 15/0 | 825.5 | 20.18 | 104.23 |
| | | | 15/0 | 836.5 | 19.98 | 99.54 |
| | | | 15/0 | 847.5 | 18.61 | 72.61 |
| | | 16QAM | 15/0 | 825.5 | 19.12 | 81.66 |
| | | | 15/0 | 836.5 | 18.79 | 75.68 |
| | | | 15/0 | 847.5 | 18.15 | 65.31 |
| | 1.4 | QPSK | 6/0 | 824.7 | 20.20 | 104.71 |
| | | | 6/0 | 836.5 | 19.81 | 95.72 |
| | | | 6/0 | 848.3 | 18.36 | 68.55 |
| | | 16QAM | 6/0 | 824.7 | 19.13 | 81.85 |
| | | | 6/0 | 836.5 | 18.60 | 72.44 |
| | | | 6/0 | 848.3 | 17.82 | 60.53 |

LTE Band 4

| Band | BW [MHz] | Mode | RB/RB Size | f [MHz] | ERP / EIRP | |
|--------|----------|-------|------------|---------|------------|--------|
| | | | Full RB | | [dBm] | [mW] |
| Band 4 | 20 | QPSK | 100/0 | 1720.0 | 18.70 | 74.13 |
| | | | 100/0 | 1732.5 | 17.97 | 62.66 |
| | | | 100/0 | 1745.0 | 17.27 | 53.33 |
| | | 16QAM | 100/0 | 1720.0 | 17.63 | 57.94 |
| | | | 100/0 | 1732.5 | 16.99 | 50.00 |
| | | | 100/0 | 1745.0 | 16.20 | 41.69 |
| | 15 | QPSK | 75/0 | 1717.5 | 18.56 | 71.78 |
| | | | 75/0 | 1732.5 | 18.76 | 75.16 |
| | | | 75/0 | 1747.5 | 18.05 | 63.83 |
| | | 16QAM | 75/0 | 1717.5 | 17.64 | 58.08 |
| | | | 75/0 | 1732.5 | 17.75 | 59.57 |
| | | | 75/0 | 1747.5 | 17.15 | 51.88 |
| | 10 | QPSK | 50/0 | 1715.0 | 19.96 | 99.08 |
| | | | 50/0 | 1732.5 | 17.96 | 62.52 |
| | | | 50/0 | 1750.0 | 16.69 | 46.67 |
| | | 16QAM | 50/0 | 1715.0 | 18.83 | 76.38 |
| | | | 50/0 | 1732.5 | 16.97 | 49.77 |
| | | | 50/0 | 1750.0 | 15.00 | 31.62 |
| | 5 | QPSK | 25/0 | 1712.5 | 20.08 | 101.86 |
| | | | 25/0 | 1732.5 | 18.18 | 65.77 |
| | | | 25/0 | 1752.5 | 18.40 | 69.18 |
| | | 16QAM | 25/0 | 1712.5 | 19.13 | 81.85 |
| | | | 25/0 | 1732.5 | 16.80 | 47.86 |
| | | | 25/0 | 1752.5 | 17.32 | 53.95 |
| | 3 | QPSK | 15/0 | 1711.5 | 20.88 | 122.46 |
| | | | 15/0 | 1732.5 | 18.24 | 66.68 |
| | | | 15/0 | 1753.5 | 17.03 | 50.47 |
| | | 16QAM | 15/0 | 1711.5 | 19.83 | 96.16 |
| | | | 15/0 | 1732.5 | 17.20 | 52.48 |
| | | | 15/0 | 1753.5 | 18.04 | 63.68 |
| 1.4 | QPSK | 6/0 | 1710.7 | 18.27 | 67.14 | |
| | | 6/0 | 1732.5 | 17.37 | 54.58 | |
| | | 6/0 | 1754.3 | 15.83 | 38.28 | |
| | 16QAM | 6/0 | 1710.7 | 17.34 | 54.20 | |
| | | 6/0 | 1732.5 | 16.43 | 43.95 | |
| | | 6/0 | 1754.3 | 14.80 | 30.20 | |

LTE Band 2

| Band | BW [MHz] | Mode | RB/RB Size | f [MHz] | ERP / EIRP | |
|--------|----------|-------|------------|---------|------------|--------|
| | | | Full RB | | [dBm] | [mW] |
| Band 2 | 20 | QPSK | 100/0 | 1860.0 | 20.38 | 109.14 |
| | | | 100/0 | 1880.0 | 21.04 | 127.06 |
| | | | 100/0 | 1900.0 | 21.85 | 153.11 |
| | | 16QAM | 100/0 | 1860.0 | 19.34 | 85.90 |
| | | | 100/0 | 1880.0 | 20.18 | 104.23 |
| | | | 100/0 | 1900.0 | 21.00 | 125.89 |
| | 15 | QPSK | 75/0 | 1857.5 | 20.54 | 113.24 |
| | | | 75/0 | 1880.0 | 20.75 | 118.85 |
| | | | 75/0 | 1902.5 | 20.73 | 118.30 |
| | | 16QAM | 75/0 | 1857.5 | 19.58 | 90.78 |
| | | | 75/0 | 1880.0 | 19.83 | 96.16 |
| | | | 75/0 | 1902.5 | 19.82 | 95.94 |
| | 10 | QPSK | 50/0 | 1955.0 | 20.82 | 120.78 |
| | | | 50/0 | 1880.0 | 21.13 | 129.72 |
| | | | 50/0 | 1905.0 | 21.34 | 136.14 |
| | | 16QAM | 50/0 | 1955.0 | 19.87 | 97.05 |
| | | | 50/0 | 1880.0 | 20.13 | 103.04 |
| | | | 50/0 | 1905.0 | 20.33 | 107.89 |
| | 5 | QPSK | 25/0 | 1852.5 | 20.56 | 113.76 |
| | | | 25/0 | 1880.0 | 21.04 | 127.06 |
| | | | 25/0 | 1907.5 | 19.73 | 93.97 |
| | | 16QAM | 25/0 | 1852.5 | 19.47 | 88.51 |
| | | | 25/0 | 1880.0 | 20.05 | 101.16 |
| | | | 25/0 | 1907.5 | 18.85 | 76.74 |
| | 3 | QPSK | 15/0 | 1815.5 | 21.14 | 130.02 |
| | | | 15/0 | 1880.0 | 21.21 | 132.13 |
| | | | 15/0 | 1908.5 | 19.67 | 92.68 |
| | | 16QAM | 15/0 | 1815.5 | 20.15 | 103.51 |
| | | | 15/0 | 1880.0 | 20.17 | 103.99 |
| | | | 15/0 | 1908.5 | 18.73 | 74.64 |
| 1.4 | QPSK | 6/0 | 1850.7 | 19.12 | 81.66 | |
| | | 6/0 | 1880.0 | 20.23 | 105.44 | |
| | | 6/0 | 1909.3 | 18.57 | 71.94 | |
| | 16QAM | 6/0 | 1850.7 | 17.92 | 61.94 | |
| | | 6/0 | 1880.0 | 18.78 | 75.51 | |
| | | 6/0 | 1909.3 | 17.75 | 59.57 | |

11.1.2. ERP/EIRP DATA

GSM 850

| GSM GSM850 GPRS | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|-----------------------|--|--|---------------------|--------------------|--------------------|-----------------------|--------------|----------------|----------------|
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| GSM GSM850 GPRS | | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: GPRS 850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | |
| | | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: EGPRS 850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | |
| | | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: EGPRS 850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | |
| | | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: EGPRS 850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | |
| | | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: EGPRS 850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | |
| | | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: EGPRS 850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | |
| | | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: EGPRS 850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | |

GSM 1900

| GSM GSM1900 GPRS | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|--------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|--|----------|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|--------|--|--|--|--|--|--|--|--|---------|------|---|------|------|-------|------|-------|--|---------|------|---|------|------|-------|------|------|--|--------|--|--|--|--|--|--|--|--|---------|------|---|------|------|-------|------|------|--|---------|------|---|------|------|-------|------|------|--|---------|--|--|--|--|--|--|--|--|---------|------|---|------|------|-------|------|------|--|---------|------|---|------|------|-------|------|------|
| | <p> Company: Samsung Project #: 16K23303 Date: 04-26-16 Test Engineer: YH Lim Configuration: EUT ONLY, X Position Mode: GPRS 1900MHz </p> <p> Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse </p> <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1850.20</td> <td>20.3</td> <td>V</td> <td>1.60</td> <td>8.80</td> <td>27.54</td> <td>33.0</td> <td>-5.5</td> <td></td> </tr> <tr> <td>1850.20</td> <td>24.6</td> <td>H</td> <td>1.60</td> <td>8.80</td> <td>31.75</td> <td>33.0</td> <td>-1.3</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1880.00</td> <td>20.8</td> <td>V</td> <td>1.62</td> <td>8.62</td> <td>27.82</td> <td>33.0</td> <td>-5.2</td> <td></td> </tr> <tr> <td>1880.00</td> <td>23.3</td> <td>H</td> <td>1.62</td> <td>8.62</td> <td>30.30</td> <td>33.0</td> <td>-2.7</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1909.80</td> <td>20.8</td> <td>V</td> <td>1.63</td> <td>8.44</td> <td>27.63</td> <td>33.0</td> <td>-5.4</td> <td></td> </tr> <tr> <td>1909.80</td> <td>23.7</td> <td>H</td> <td>1.63</td> <td>8.44</td> <td>30.50</td> <td>33.0</td> <td>-2.5</td> <td></td> </tr> </tbody> </table> <p>Rev. 3.17.11</p> | | | | | | | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch | | | | | | | | | 1850.20 | 20.3 | V | 1.60 | 8.80 | 27.54 | 33.0 | -5.5 | | 1850.20 | 24.6 | H | 1.60 | 8.80 | 31.75 | 33.0 | -1.3 | | Mid Ch | | | | | | | | | 1880.00 | 20.8 | V | 1.62 | 8.62 | 27.82 | 33.0 | -5.2 | | 1880.00 | 23.3 | H | 1.62 | 8.62 | 30.30 | 33.0 | -2.7 | | High Ch | | | | | | | | | 1909.80 | 20.8 | V | 1.63 | 8.44 | 27.63 | 33.0 | -5.4 | | 1909.80 | 23.7 | H | 1.63 | 8.44 | 30.50 | 33.0 | -2.5 |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1850.20 | 20.3 | V | 1.60 | 8.80 | 27.54 | 33.0 | -5.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1850.20 | 24.6 | H | 1.60 | 8.80 | 31.75 | 33.0 | -1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1880.00 | 20.8 | V | 1.62 | 8.62 | 27.82 | 33.0 | -5.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1880.00 | 23.3 | H | 1.62 | 8.62 | 30.30 | 33.0 | -2.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1909.80 | 20.8 | V | 1.63 | 8.44 | 27.63 | 33.0 | -5.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1909.80 | 23.7 | H | 1.63 | 8.44 | 30.50 | 33.0 | -2.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GSM GSM1900 EGPRS | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p> Company: Samsung Project #: 16K23303 Date: 04-26-16 Test Engineer: YH Lim Configuration: EUT ONLY, X Position Mode: EGPRS 1900MHz </p> <p> Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse </p> <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1850.20</td> <td>14.4</td> <td>V</td> <td>1.60</td> <td>8.80</td> <td>21.58</td> <td>33.0</td> <td>-11.4</td> <td></td> </tr> <tr> <td>1850.20</td> <td>20.8</td> <td>H</td> <td>1.60</td> <td>8.80</td> <td>27.99</td> <td>33.0</td> <td>-5.0</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1880.00</td> <td>19.0</td> <td>V</td> <td>1.62</td> <td>8.62</td> <td>25.99</td> <td>33.0</td> <td>-7.0</td> <td></td> </tr> <tr> <td>1880.00</td> <td>20.6</td> <td>H</td> <td>1.62</td> <td>8.62</td> <td>27.58</td> <td>33.0</td> <td>-5.4</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1909.80</td> <td>17.5</td> <td>V</td> <td>1.63</td> <td>8.44</td> <td>24.26</td> <td>33.0</td> <td>-8.7</td> <td></td> </tr> <tr> <td>1909.80</td> <td>20.4</td> <td>H</td> <td>1.63</td> <td>8.44</td> <td>27.19</td> <td>33.0</td> <td>-5.8</td> <td></td> </tr> </tbody> </table> <p>Rev. 3.17.11</p> | | | | | | | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch | | | | | | | | | 1850.20 | 14.4 | V | 1.60 | 8.80 | 21.58 | 33.0 | -11.4 | | 1850.20 | 20.8 | H | 1.60 | 8.80 | 27.99 | 33.0 | -5.0 | | Mid Ch | | | | | | | | | 1880.00 | 19.0 | V | 1.62 | 8.62 | 25.99 | 33.0 | -7.0 | | 1880.00 | 20.6 | H | 1.62 | 8.62 | 27.58 | 33.0 | -5.4 | | High Ch | | | | | | | | | 1909.80 | 17.5 | V | 1.63 | 8.44 | 24.26 | 33.0 | -8.7 | | 1909.80 | 20.4 | H | 1.63 | 8.44 | 27.19 | 33.0 | -5.8 |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Ch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1850.20 | 14.4 | V | 1.60 | 8.80 | 21.58 | 33.0 | -11.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1850.20 | 20.8 | H | 1.60 | 8.80 | 27.99 | 33.0 | -5.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1880.00 | 19.0 | V | 1.62 | 8.62 | 25.99 | 33.0 | -7.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1880.00 | 20.6 | H | 1.62 | 8.62 | 27.58 | 33.0 | -5.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1909.80 | 17.5 | V | 1.63 | 8.44 | 24.26 | 33.0 | -8.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1909.80 | 20.4 | H | 1.63 | 8.44 | 27.19 | 33.0 | -5.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

WCDMA B5

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|------------------------------|---|--|-----------------|-----------------|--------------------|-----------|-------------|-------------|-------|--|
| WCDMA Band 5 REL99 | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: Rel 99_850 MHz | | | | | | | | | |
| | Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 826.40 | 21.70 | V | 1.1 | -1.5 | 19.09 | 38.5 | -19.4 | | |
| | 826.40 | 12.80 | H | 1.1 | -1.5 | 10.19 | 38.5 | -28.3 | | |
| | Mid Ch | | | | | | | | | |
| | 836.60 | 20.33 | V | 1.1 | -1.4 | 17.84 | 38.5 | -20.6 | | |
| | 836.60 | 12.39 | H | 1.1 | -1.4 | 9.90 | 38.5 | -28.6 | | |
| | High Ch | | | | | | | | | |
| 846.60 | 19.96 | V | 1.1 | -1.3 | 17.58 | 38.5 | -20.9 | | | |
| 846.60 | 13.87 | H | 1.1 | -1.3 | 11.49 | 38.5 | -27.0 | | | |
| Rev. 3.17.11 | | | | | | | | | | |
| WCDMA Band 5 HSDPA | Company: Samsung Project #: 16K22867 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: HSDPA_850 MHz | | | | | | | | | |
| | Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 826.40 | 23.06 | V | 1.1 | -1.5 | 20.45 | 38.5 | -18.0 | | |
| | 826.40 | 13.59 | H | 1.1 | -1.5 | 10.98 | 38.5 | -27.5 | | |
| | Mid Ch | | | | | | | | | |
| | 836.60 | 21.74 | V | 1.1 | -1.4 | 19.25 | 38.5 | -19.2 | | |
| | 836.60 | 12.92 | H | 1.1 | -1.4 | 10.43 | 38.5 | -28.0 | | |
| | High Ch | | | | | | | | | |
| 846.60 | 20.82 | V | 1.1 | -1.3 | 18.44 | 38.5 | -20.0 | | | |
| 846.60 | 14.11 | H | 1.1 | -1.3 | 11.73 | 38.5 | -26.7 | | | |
| Rev. 3.17.11 | | | | | | | | | | |

WCDMA B4

| WCDMA Band 4 REL99 | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|------------------------------|--|---|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|----------------|
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| WCDMA Band 4 REL99 | | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: Rel 99_1700 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | |
| | | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: HSDPA_1700 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | |
| | | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: HSDPA_1700 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | |
| | | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: HSDPA_1700 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | |
| | | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: HSDPA_1700 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | |
| | | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: HSDPA_1700 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | |
| | | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: HSDPA_1700 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | |

WCDMA B2

| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
|---|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|----------------|-------|
| | | | | | | | | |
| High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
| Company: Samsung Project #: 16K23303 Date: 04-26-16 Test Engineer: YH Lim Configuration: EUT ONLY, X Position Mode: REL99_1900 MHz | | | | | | | | |
| Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| WCDMA Band 2 REL99 | | | | | | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |
| High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
| Company: Samsung Project #: 16K23303 Date: 04-26-16 Test Engineer: YH Lim Configuration: EUT ONLY, X Position Mode: HSDPA_1900 MHz | | | | | | | | |
| Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| WCDMA Band 2 HSDPA | | | | | | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |

LTE Band 17

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|----------------------------------|------------------------|--|--|-----------------|--------------------|------------|-------------|-------------|-------|--|
| LTE Band 17 10MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-05-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / Y-Position | | | | | | | |
| | Mode: | | LTE Band 17, QPSK, 10MHz | | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-750, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 709.00 | 15.52 | V | 1.0 | -1.6 | 12.92 | 34.8 | -21.9 | | |
| | 709.00 | 9.22 | H | 1.0 | -1.6 | 6.62 | 34.8 | -28.2 | | |
| | Mid Ch | | | | | | | | | |
| | 710.00 | 15.34 | V | 1.0 | -1.6 | 12.74 | 34.8 | -22.0 | | |
| | 710.00 | 9.18 | H | 1.0 | -1.6 | 6.58 | 34.8 | -28.2 | | |
| | High Ch | | | | | | | | | |
| 711.00 | 15.31 | V | 1.0 | -1.6 | 12.71 | 34.8 | -22.1 | | | |
| 711.00 | 9.18 | H | 1.0 | -1.6 | 6.58 | 34.8 | -28.2 | | | |
| Rev. 3.17.11 | | Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | |
| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
| LTE Band 17 10MHz 16QAM | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-05-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / Y-Position | | | | | | | |
| | Mode: | | LTE Band 17 16QAM, 10MHz | | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-750, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 709.00 | 14.55 | V | 1.0 | -1.6 | 11.95 | 34.8 | -22.8 | | |
| | 709.00 | 10.18 | H | 1.0 | -1.6 | 7.58 | 34.8 | -27.2 | | |
| | Mid Ch | | | | | | | | | |
| | 710.00 | 14.33 | V | 1.0 | -1.6 | 11.73 | 34.8 | -23.0 | | |
| | 710.00 | 10.15 | H | 1.0 | -1.6 | 7.55 | 34.8 | -27.2 | | |
| | High Ch | | | | | | | | | |
| 711.00 | 14.29 | V | 1.0 | -1.6 | 11.69 | 34.8 | -23.1 | | | |
| 711.00 | 10.13 | H | 1.0 | -1.6 | 7.53 | 34.8 | -27.2 | | | |
| Rev. 3.17.11 | | Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|--|------------------------|--|--|--------------------|-----------------------|---------------|----------------|----------------|-------|
| LTE Band 17 5MHz QPSK | Company: | | Samsung | | | | | | |
| | Project #: | | 16K22867 | | | | | | |
| | Date: | | 03-05-16 | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | |
| | Configuration: | | EUT / Y-Position | | | | | | |
| | Mode: | | LTE Band 17, QPSK , 5MHz | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-750, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 706.50 | 15.58 | V | 1.0 | -1.6 | 12.98 | 34.8 | -21.8 | |
| | 706.50 | 10.04 | H | 1.0 | -1.6 | 7.44 | 34.8 | -27.3 | |
| | Mid Ch | | | | | | | | |
| | 710.00 | 14.52 | V | 1.0 | -1.6 | 11.92 | 34.8 | -22.9 | |
| | 710.00 | 9.60 | H | 1.0 | -1.6 | 7.00 | 34.8 | -27.8 | |
| | High Ch | | | | | | | | |
| 713.50 | 14.12 | V | 1.0 | -1.6 | 11.52 | 34.8 | -23.3 | | |
| 713.50 | 9.81 | H | 1.0 | -1.6 | 7.21 | 34.8 | -27.6 | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | |
| LTE Band 17 5MHz 16QAM | Company: | | Samsung | | | | | | |
| | Project #: | | 16K22867 | | | | | | |
| | Date: | | 03-05-16 | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | |
| | Configuration: | | EUT / Y-Position | | | | | | |
| | Mode: | | LTE Band 17 16QAM, 5MHz | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-750, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 706.50 | 14.63 | V | 1.0 | -1.6 | 12.03 | 34.8 | -22.7 | |
| | 706.50 | 9.02 | H | 1.0 | -1.6 | 6.42 | 34.8 | -28.4 | |
| | Mid Ch | | | | | | | | |
| | 710.00 | 13.57 | V | 1.0 | -1.6 | 10.97 | 34.8 | -23.8 | |
| | 710.00 | 8.53 | H | 1.0 | -1.6 | 5.93 | 34.8 | -28.8 | |
| | High Ch | | | | | | | | |
| 713.50 | 13.09 | V | 1.0 | -1.6 | 10.49 | 34.8 | -24.3 | | |
| 713.50 | 8.75 | H | 1.0 | -1.6 | 6.15 | 34.8 | -28.6 | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | |

LTE Band 5

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|------------------------|--|--|-----------------|--------------------|-----------|-------------|-------------|-------|--|
| LTE Band 5 10MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-07-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT ONLY, Y Position | | | | | | | |
| | Mode: | | TX, LTE BAND 5, 10MHz BW,QPSK | | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 829.00 | 23.06 | V | 1.1 | -1.5 | 20.48 | 38.5 | -18.0 | | |
| | 829.00 | 13.94 | H | 1.1 | -1.5 | 11.36 | 38.5 | -27.1 | | |
| | Mid Ch | | | | | | | | | |
| | 836.50 | 22.45 | V | 1.1 | -1.4 | 19.96 | 38.5 | -18.5 | | |
| | 836.50 | 13.84 | H | 1.1 | -1.4 | 11.35 | 38.5 | -27.1 | | |
| | High Ch | | | | | | | | | |
| 844.00 | 21.89 | V | 1.1 | -1.3 | 19.50 | 38.5 | -19.0 | | | |
| 844.00 | 13.60 | H | 1.1 | -1.3 | 11.18 | 38.5 | -27.3 | | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | | |
| LTE Band 5 10MHz 16QAM | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-07-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT ONLY, Y Position | | | | | | | |
| | Mode: | | LTE5 10MHz FUND 16QAM | | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 829.00 | 22.10 | V | 1.1 | -1.5 | 19.52 | 38.5 | -18.9 | | |
| | 829.00 | 12.92 | H | 1.1 | -1.5 | 10.34 | 38.5 | -28.1 | | |
| | Mid Ch | | | | | | | | | |
| | 836.50 | 21.48 | V | 1.1 | -1.4 | 18.97 | 38.5 | -19.5 | | |
| | 836.50 | 12.82 | H | 1.1 | -1.4 | 10.31 | 38.5 | -28.1 | | |
| | High Ch | | | | | | | | | |
| 844.00 | 20.90 | V | 1.1 | -1.3 | 18.48 | 38.5 | -20.0 | | | |
| 844.00 | 12.62 | H | 1.1 | -1.3 | 10.20 | 38.5 | -28.2 | | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|------------------------|--|--|--------------------|-----------------------|--------------|----------------|----------------|-------|--|
| LTE Band 5 5MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-07-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT ONLY, Y Position | | | | | | | |
| | Mode: | | LTE5 5MHz FUND QPSK | | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 826.50 | 22.87 | V | 1.1 | -1.5 | 20.27 | 38.5 | -18.2 | | |
| | 826.50 | 13.84 | H | 1.1 | -1.5 | 11.24 | 38.5 | -27.2 | | |
| | Mid Ch | | | | | | | | | |
| | 836.50 | 22.29 | V | 1.1 | -1.4 | 19.80 | 38.5 | -18.7 | | |
| | 836.50 | 13.67 | H | 1.1 | -1.4 | 11.18 | 38.5 | -27.3 | | |
| High Ch | | | | | | | | | | |
| 846.50 | 21.65 | V | 1.6 | -1.3 | 18.77 | 38.5 | -19.7 | | | |
| 846.50 | 13.86 | H | 1.6 | -1.3 | 10.98 | 38.5 | -27.5 | | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | | |
| LTE Band 5 5MHz 16QAM | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-07-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT ONLY, Y Position | | | | | | | |
| | Mode: | | LTE5 5MHz FUND 16QAM | | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 826.50 | 21.93 | V | 1.1 | -1.5 | 19.33 | 38.5 | -19.1 | | |
| | 826.50 | 12.82 | H | 1.1 | -1.5 | 10.22 | 38.5 | -28.2 | | |
| | Mid Ch | | | | | | | | | |
| | 836.50 | 21.25 | V | 1.1 | -1.4 | 18.76 | 38.5 | -19.7 | | |
| | 836.50 | 12.58 | H | 1.1 | -1.4 | 10.09 | 38.5 | -28.4 | | |
| High Ch | | | | | | | | | | |
| 846.50 | 20.69 | V | 1.1 | -1.3 | 18.31 | 38.5 | -20.1 | | | |
| 846.50 | 12.91 | H | 1.1 | -1.3 | 10.53 | 38.5 | -27.9 | | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|------------------------|--|--|--------------------|-----------------------|--------------|----------------|----------------|-------|--|
| LTE Band 5 3MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-07-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT ONLY, Y Position | | | | | | | |
| | Mode: | | LTE5 3MHz FUND QPSK | | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 825.50 | 22.78 | V | 1.1 | -1.5 | 20.18 | 38.5 | -18.3 | | |
| | 825.50 | 13.72 | H | 1.1 | -1.5 | 11.12 | 38.5 | -27.3 | | |
| | Mid Ch | | | | | | | | | |
| | 836.50 | 22.47 | V | 1.1 | -1.4 | 19.98 | 38.5 | -18.5 | | |
| | 836.50 | 13.59 | H | 1.1 | -1.4 | 11.10 | 38.5 | -27.4 | | |
| High Ch | | | | | | | | | | |
| 847.50 | 21.49 | V | 1.6 | -1.3 | 18.61 | 38.5 | -19.8 | | | |
| 847.50 | 14.03 | H | 1.6 | -1.3 | 11.15 | 38.5 | -27.3 | | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | | |
| LTE Band 5 3MHz 16QAM | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-07-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT ONLY, Y Position | | | | | | | |
| | Mode: | | LTE5 3MHz FUND 16QAM | | | | | | | |
| | Test Equipment: | | Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 825.50 | 21.72 | V | 1.1 | -1.5 | 19.12 | 38.5 | -19.3 | | |
| | 825.50 | 12.71 | H | 1.1 | -1.5 | 10.11 | 38.5 | -28.3 | | |
| | Mid Ch | | | | | | | | | |
| | 836.50 | 21.28 | V | 1.1 | -1.4 | 18.79 | 38.5 | -19.7 | | |
| | 836.50 | 12.56 | H | 1.1 | -1.4 | 10.07 | 38.5 | -28.4 | | |
| High Ch | | | | | | | | | | |
| 847.50 | 20.53 | V | 1.1 | -1.3 | 18.15 | 38.5 | -20.3 | | | |
| 847.50 | 13.06 | H | 1.1 | -1.3 | 10.68 | 38.5 | -27.8 | | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|--|---|------------------|-----------------|--------------------|--------------------|-------------|-------------|-------------|-------|
| LTE Band 5 1.4MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-07-16 Test Engineer: Steven.Kim Configuration: EUT ONLY, Y Position Mode: LTE5 1.4MHz FUND QPSK Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 824.70 | 22.80 | V | 1.1 | -1.5 | 20.20 | 38.5 | -18.3 | | |
| | 824.70 | 13.69 | H | 1.1 | -1.5 | 11.09 | 38.5 | -27.4 | | |
| | Mid Ch | | | | | | | | | |
| | 836.50 | 22.30 | V | 1.1 | -1.4 | 19.81 | 38.5 | -18.6 | | |
| | 836.50 | 13.90 | H | 1.1 | -1.4 | 11.41 | 38.5 | -27.0 | | |
| | High Ch | | | | | | | | | |
| | 848.30 | 21.24 | V | 1.6 | -1.3 | 18.36 | 38.5 | -20.1 | | |
| | 848.30 | 13.56 | H | 1.6 | -1.3 | 10.68 | 38.5 | -27.8 | | |
| | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | |
| | LTE Band 5 1.4MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-07-16 Test Engineer: Steven.Kim Configuration: EUT ONLY, Y Position Mode: LTE5 1.4MHz FUND 16QAM Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| 824.70 | | 21.73 | V | 1.1 | -1.5 | 19.13 | 38.5 | -19.3 | | |
| 824.70 | | 12.57 | H | 1.1 | -1.5 | 9.97 | 38.5 | -28.5 | | |
| Mid Ch | | | | | | | | | | |
| 836.50 | | 21.09 | V | 1.1 | -1.4 | 18.60 | 38.5 | -19.9 | | |
| 836.50 | | 13.07 | H | 1.1 | -1.4 | 10.58 | 38.5 | -27.9 | | |
| High Ch | | | | | | | | | | |
| 848.30 | | 20.20 | V | 1.1 | -1.3 | 17.82 | 38.5 | -20.6 | | |
| 848.30 | | 12.53 | H | 1.1 | -1.3 | 10.15 | 38.5 | -28.3 | | |
| Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | | |

LTE Band 4

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|--|---|--|------------------|-----------------|--------------------|--------------------|-------------|-------------|-------------|
| LTE Band 4 20MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / Z-Position Mode: LTE Band 4, QPSK, 20MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1720.00 | 7.28 | V | 1.54 | 9.12 | 14.86 | 30.0 | -15.1 | |
| | 1720.00 | 11.12 | H | 1.54 | 9.12 | 18.70 | 30.0 | -11.3 | |
| | Mid Ch | | | | | | | | |
| | 1732.50 | 7.49 | V | 1.55 | 9.31 | 15.25 | 30.0 | -14.8 | |
| | 1732.50 | 10.21 | H | 1.55 | 9.31 | 17.97 | 30.0 | -12.0 | |
| | High Ch | | | | | | | | |
| | 1745.00 | 7.58 | V | 1.56 | 9.37 | 15.39 | 30.0 | -14.6 | |
| | 1745.00 | 9.46 | H | 1.56 | 9.37 | 17.27 | 30.0 | -12.7 | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |
| | LTE Band 4 20MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / Z-Position Mode: LTE Band 4, 16QAM, 20MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| Low Ch | | | | | | | | | |
| 1720.00 | | 6.22 | V | 1.54 | 9.12 | 13.80 | 30.0 | -16.2 | |
| 1720.00 | | 10.05 | H | 1.54 | 9.12 | 17.63 | 30.0 | -12.4 | |
| Mid Ch | | | | | | | | | |
| 1732.50 | | 6.48 | V | 1.55 | 9.31 | 14.24 | 30.0 | -15.8 | |
| 1732.50 | | 9.23 | H | 1.55 | 9.31 | 16.99 | 30.0 | -13.0 | |
| High Ch | | | | | | | | | |
| 1745.00 | | 6.45 | V | 1.56 | 9.37 | 14.26 | 30.0 | -15.7 | |
| 1745.00 | | 8.39 | H | 1.56 | 9.37 | 16.20 | 30.0 | -13.8 | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|--|------------------------|--|---|--------------------|-----------------------|---------------|----------------|----------------|-------|
| LTE Band 4 15MHz QPSK | Company: | | Samsung | | | | | | |
| | Project #: | | 16K22867 | | | | | | |
| | Date: | | 03-04-16 | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | |
| | Configuration: | | EUT / Z-Position | | | | | | |
| | Mode: | | LTE Band 4, QPSK, 15MHz | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1717.50 | 7.97 | V | 1.54 | 9.12 | 15.55 | 30.0 | -14.5 | |
| | 1717.50 | 10.98 | H | 1.54 | 9.12 | 18.56 | 30.0 | -11.4 | |
| | Mid Ch | | | | | | | | |
| | 1732.50 | 7.61 | V | 1.55 | 9.31 | 15.37 | 30.0 | -14.6 | |
| | 1732.50 | 11.00 | H | 1.55 | 9.31 | 18.76 | 30.0 | -11.2 | |
| High Ch | | | | | | | | | |
| 1747.50 | 8.36 | V | 1.56 | 9.39 | 16.19 | 30.0 | -13.8 | | |
| 1747.50 | 10.22 | H | 1.56 | 9.39 | 18.05 | 30.0 | -12.0 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| LTE Band 4 15MHz 16QAM | Company: | | Samsung | | | | | | |
| | Project #: | | 16K22867 | | | | | | |
| | Date: | | 03-04-16 | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | |
| | Configuration: | | EUT / Z-Position | | | | | | |
| | Mode: | | LTE Band 4, 16QAM, 15MHz | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1717.50 | 7.04 | V | 1.54 | 9.12 | 14.62 | 30.0 | -15.4 | |
| | 1717.50 | 10.06 | H | 1.54 | 9.12 | 17.64 | 30.0 | -12.4 | |
| | Mid Ch | | | | | | | | |
| | 1732.50 | 6.70 | V | 1.55 | 9.31 | 14.46 | 30.0 | -15.5 | |
| | 1732.50 | 9.99 | H | 1.55 | 9.31 | 17.75 | 30.0 | -12.3 | |
| High Ch | | | | | | | | | |
| 1747.50 | 7.31 | V | 1.56 | 9.39 | 15.14 | 30.0 | -14.9 | | |
| 1747.50 | 9.32 | H | 1.56 | 9.39 | 17.15 | 30.0 | -12.9 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|---|--|--|--------------------|--------------------|-----------------------|---------------|----------------|----------------|-------|
| LTE Band 4 10MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / Z-Position Mode: LTE Band 4, QPSK, 10MHz | | | | | | | | |
| | Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1715.00 | 7.59 | V | 1.54 | 9.12 | 15.17 | 30.0 | -14.8 | |
| | 1715.00 | 12.38 | H | 1.54 | 9.12 | 19.96 | 30.0 | -10.0 | |
| | Mid Ch | | | | | | | | |
| | 1732.50 | 6.65 | V | 1.55 | 9.31 | 14.41 | 30.0 | -15.6 | |
| | 1732.50 | 10.20 | H | 1.55 | 9.31 | 17.96 | 30.0 | -12.0 | |
| | High Ch | | | | | | | | |
| | 1750.00 | 5.99 | V | 1.56 | 9.40 | 13.83 | 30.0 | -16.2 | |
| | 1750.00 | 8.85 | H | 1.56 | 9.40 | 16.69 | 30.0 | -13.3 | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |
| | LTE Band 4 10MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / Z-Position Mode: LTE Band 4 16QAM, 10MHz | | | | | | | |
| Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| f MHz | | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | |
| 1715.00 | | 6.62 | V | 1.54 | 9.12 | 14.20 | 30.0 | -15.8 | |
| 1715.00 | | 11.25 | H | 1.54 | 9.12 | 18.83 | 30.0 | -11.2 | |
| Mid Ch | | | | | | | | | |
| 1732.50 | | 5.59 | V | 1.55 | 9.31 | 13.35 | 30.0 | -16.7 | |
| 1732.50 | | 9.21 | H | 1.55 | 9.31 | 16.97 | 30.0 | -13.0 | |
| High Ch | | | | | | | | | |
| 1750.00 | | 4.73 | V | 1.56 | 9.40 | 12.57 | 30.0 | -17.4 | |
| 1750.00 | | 7.16 | H | 1.56 | 9.40 | 15.00 | 30.0 | -15.0 | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|--|------------------------|--|---|--------------------|-----------------------|---------------|----------------|----------------|-------|
| LTE Band 4 5MHz QPSK | Company: | | Samsung | | | | | | |
| | Project #: | | 16K22867 | | | | | | |
| | Date: | | 03-04-16 | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | |
| | Configuration: | | EUT / Z-Position | | | | | | |
| | Mode: | | LTE Band 4, QPSK , 5MHz | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1712.50 | 8.86 | V | 1.54 | 9.12 | 16.44 | 30.0 | -13.6 | |
| | 1712.50 | 12.50 | H | 1.54 | 9.12 | 20.08 | 30.0 | -9.9 | |
| | Mid Ch | | | | | | | | |
| | 1732.50 | 8.09 | V | 1.55 | 9.31 | 15.85 | 30.0 | -14.2 | |
| | 1732.50 | 10.42 | H | 1.55 | 9.31 | 18.18 | 30.0 | -11.8 | |
| High Ch | | | | | | | | | |
| 1752.50 | 8.67 | V | 1.56 | 9.39 | 16.50 | 30.0 | -13.5 | | |
| 1752.50 | 10.57 | H | 1.56 | 9.39 | 18.40 | 30.0 | -11.6 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| LTE Band 4 5MHz 16QAM | Company: | | Samsung | | | | | | |
| | Project #: | | 16K22867 | | | | | | |
| | Date: | | 03-04-16 | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | |
| | Configuration: | | EUT / Z-Position | | | | | | |
| | Mode: | | LTE Band 4 16QAM, 5MHz | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1712.50 | 7.91 | V | 1.54 | 9.12 | 15.49 | 30.0 | -14.5 | |
| | 1712.50 | 11.55 | H | 1.54 | 9.12 | 19.13 | 30.0 | -10.9 | |
| | Mid Ch | | | | | | | | |
| | 1732.50 | 6.39 | V | 1.55 | 9.31 | 14.15 | 30.0 | -15.9 | |
| | 1732.50 | 9.04 | H | 1.55 | 9.31 | 16.80 | 30.0 | -13.2 | |
| High Ch | | | | | | | | | |
| 1752.50 | 6.66 | V | 1.56 | 9.39 | 14.49 | 30.0 | -15.5 | | |
| 1752.50 | 9.49 | H | 1.56 | 9.39 | 17.32 | 30.0 | -12.7 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|------------------------|--|---|--------------------|-----------------------|---------------|----------------|----------------|-------|--|
| LTE Band 4 3MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-04-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / Z-Position | | | | | | | |
| | Mode: | | LTE Band 4, QPSK , 3MHz | | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | |
| | | | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1711.50 | 8.78 | V | 1.54 | 9.12 | 16.36 | 30.0 | -13.6 | | |
| | 1711.50 | 13.30 | H | 1.54 | 9.12 | 20.88 | 30.0 | -9.1 | | |
| | Mid Ch | | | | | | | | | |
| | 1732.50 | 8.42 | V | 1.55 | 9.31 | 16.18 | 30.0 | -13.8 | | |
| 1732.50 | 10.48 | H | 1.55 | 9.31 | 18.24 | 30.0 | -11.8 | | | |
| High Ch | | | | | | | | | | |
| 1753.50 | 7.94 | V | 1.56 | 9.38 | 15.76 | 30.0 | -14.2 | | | |
| 1753.50 | 9.21 | H | 1.56 | 9.38 | 17.03 | 30.0 | -13.0 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |
| LTE Band 4 3MHz 16QAM | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-04-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / Z-Position | | | | | | | |
| | Mode: | | LTE Band 4 16QAM, 3MHz | | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | |
| | | | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1711.50 | 7.79 | V | 1.54 | 9.12 | 15.37 | 30.0 | -14.6 | | |
| | 1711.50 | 12.25 | H | 1.54 | 9.12 | 19.83 | 30.0 | -10.2 | | |
| | Mid Ch | | | | | | | | | |
| | 1732.50 | 7.35 | V | 1.55 | 9.31 | 15.11 | 30.0 | -14.9 | | |
| 1732.50 | 9.44 | H | 1.55 | 9.31 | 17.20 | 30.0 | -12.8 | | | |
| High Ch | | | | | | | | | | |
| 1753.50 | 7.02 | V | 1.56 | 9.38 | 14.84 | 30.0 | -15.2 | | | |
| 1753.50 | 10.22 | H | 1.56 | 9.38 | 18.04 | 30.0 | -12.0 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| LTE Band 4 1.4MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / Z-Position Mode: LTE Band 4 QPSK, 1.4MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
|--|---|--|--------------------|--------------------|-----------------------|---------------|----------------|----------------|-------|--|
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1710.70 | 6.33 | V | 1.54 | 9.12 | 13.91 | 30.0 | -16.1 | | |
| | 1710.70 | 10.69 | H | 1.54 | 9.12 | 18.27 | 30.0 | -11.7 | | |
| | Mid Ch | | | | | | | | | |
| | 1732.50 | 6.19 | V | 1.55 | 9.31 | 13.95 | 30.0 | -16.1 | | |
| | 1732.50 | 9.61 | H | 1.55 | 9.31 | 17.37 | 30.0 | -12.6 | | |
| | High Ch | | | | | | | | | |
| | 1754.30 | 3.34 | V | 1.56 | 9.37 | 11.15 | 30.0 | -18.9 | | |
| | 1754.30 | 8.02 | H | 1.56 | 9.37 | 15.83 | 30.0 | -14.2 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 4 1.4MHz 16QAM | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
| | | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / Z-Position Mode: LTE Band 4 16QAM, 1.4MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| f MHz | | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| Low Ch | | | | | | | | | | |
| 1710.70 | | 5.27 | V | 1.54 | 9.12 | 12.85 | 30.0 | -17.2 | | |
| 1710.70 | | 9.76 | H | 1.54 | 9.12 | 17.34 | 30.0 | -12.7 | | |
| Mid Ch | | | | | | | | | | |
| 1732.50 | | 5.07 | V | 1.55 | 9.31 | 12.83 | 30.0 | -17.2 | | |
| 1732.50 | | 8.67 | H | 1.55 | 9.31 | 16.43 | 30.0 | -13.6 | | |
| High Ch | | | | | | | | | | |
| 1754.30 | | 4.46 | V | 1.56 | 9.37 | 12.27 | 30.0 | -17.7 | | |
| 1754.30 | | 6.99 | H | 1.56 | 9.37 | 14.80 | 30.0 | -15.2 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

LTE Band 2

| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|----------------|-------|
| | | | | | | | | |
| High Frequency Substitution Measurement | | | | | | | | |
| UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
| Company: Samsung Project #: 16K22867 Date: 02-17-16 Test Engineer: Steven.Kim Configuration: EUT / X-Position Mode: LTE Band 2 QPSK, 20MHz | | | | | | | | |
| Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |
| High Frequency Substitution Measurement | | | | | | | | |
| UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
| Company: Samsung Project #: 16K22867 Date: 02-17-16 Test Engineer: Steven.Kim Configuration: EUT / X-Position Mode: LTE Band 2 16QAM, 20MHz | | | | | | | | |
| Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|--|------------------------|--|---|--------------------|-----------------------|---------------|----------------|----------------|-------|
| LTE Band 2 15MHz QPSK | Company: | | Samsung | | | | | | |
| | Project #: | | 16K22867 | | | | | | |
| | Date: | | 02-17-16 | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | |
| | Configuration: | | EUT / X-Position | | | | | | |
| | Mode: | | LTE Band 2 QPSK, 15MHz | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1857.50 | 13.02 | V | 1.60 | 9.12 | 20.54 | 33.0 | -12.5 | |
| | 1857.50 | 12.48 | H | 1.60 | 9.12 | 20.00 | 33.0 | -13.0 | |
| | Mid Ch | | | | | | | | |
| | 1880.00 | 13.75 | V | 1.62 | 8.62 | 20.75 | 33.0 | -12.2 | |
| | 1880.00 | 12.67 | H | 1.62 | 8.62 | 19.67 | 33.0 | -13.3 | |
| High Ch | | | | | | | | | |
| 1902.50 | 13.87 | V | 1.63 | 8.49 | 20.73 | 33.0 | -12.3 | | |
| 1902.50 | 13.69 | H | 1.63 | 8.49 | 20.55 | 33.0 | -12.4 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| LTE Band 2 15MHz 16QAM | Company: | | Samsung | | | | | | |
| | Project #: | | 16K22867 | | | | | | |
| | Date: | | 02-17-16 | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | |
| | Configuration: | | EUT / X-Position | | | | | | |
| | Mode: | | LTE Band 2 16QAM, 15MHz | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1857.50 | 12.06 | V | 1.60 | 9.12 | 19.58 | 33.0 | -13.4 | |
| | 1857.50 | 11.35 | H | 1.60 | 9.12 | 18.87 | 33.0 | -14.1 | |
| | Mid Ch | | | | | | | | |
| | 1880.00 | 12.83 | V | 1.62 | 8.62 | 19.83 | 33.0 | -13.2 | |
| | 1880.00 | 11.83 | H | 1.62 | 8.62 | 18.83 | 33.0 | -14.2 | |
| High Ch | | | | | | | | | |
| 1902.50 | 12.96 | V | 1.63 | 8.49 | 19.82 | 33.0 | -13.2 | | |
| 1902.50 | 12.82 | H | 1.63 | 8.49 | 19.68 | 33.0 | -13.3 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|------------------------|--|---|--------------------|-----------------------|---------------|----------------|----------------|-------|--|
| LTE Band 2 10MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-02-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / X-Position | | | | | | | |
| | Mode: | | LTE Band 2 QPSK, 10MHz | | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | |
| | | | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1855.00 | 11.69 | V | 1.60 | 9.12 | 19.21 | 33.0 | -13.8 | | |
| | 1855.00 | 13.30 | H | 1.60 | 9.12 | 20.82 | 33.0 | -12.2 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 14.13 | V | 1.62 | 8.62 | 21.13 | 33.0 | -11.9 | | |
| 1880.00 | 13.67 | H | 1.62 | 8.62 | 20.67 | 33.0 | -12.3 | | | |
| High Ch | | | | | | | | | | |
| 1905.00 | 14.39 | V | 1.63 | 8.47 | 21.23 | 33.0 | -11.8 | | | |
| 1905.00 | 14.50 | H | 1.63 | 8.47 | 21.34 | 33.0 | -11.7 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |
| LTE Band 2 10MHz 16QAM | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-02-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / X-Position | | | | | | | |
| | Mode: | | LTE Band 2 16QAM, 10MHz | | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | |
| | | | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1855.00 | 10.77 | V | 1.60 | 9.12 | 18.29 | 33.0 | -14.7 | | |
| | 1855.00 | 12.35 | H | 1.60 | 9.12 | 19.87 | 33.0 | -13.1 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 13.13 | V | 1.62 | 8.62 | 20.13 | 33.0 | -12.9 | | |
| 1880.00 | 12.65 | H | 1.62 | 8.62 | 19.65 | 33.0 | -13.3 | | | |
| High Ch | | | | | | | | | | |
| 1905.00 | 13.48 | V | 1.63 | 8.47 | 20.32 | 33.0 | -12.7 | | | |
| 1905.00 | 13.49 | H | 1.63 | 8.47 | 20.33 | 33.0 | -12.7 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|------------------------|--|---|--------------------|-----------------------|---------------|----------------|----------------|-------|--|
| LTE Band 2 5MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-02-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / X-Position | | | | | | | |
| | Mode: | | LTE Band 2 QPSK, 5MHz | | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | |
| | | | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1852.50 | 11.68 | V | 1.60 | 9.12 | 19.20 | 33.0 | -13.8 | | |
| | 1852.50 | 13.04 | H | 1.60 | 9.12 | 20.56 | 33.0 | -12.4 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 14.04 | V | 1.62 | 8.62 | 21.04 | 33.0 | -12.0 | | |
| 1880.00 | 13.61 | H | 1.62 | 8.62 | 20.61 | 33.0 | -12.4 | | | |
| High Ch | | | | | | | | | | |
| 1907.50 | 12.90 | V | 1.63 | 8.46 | 19.73 | 33.0 | -13.3 | | | |
| 1907.50 | 12.29 | H | 1.63 | 8.46 | 19.12 | 33.0 | -13.9 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |
| LTE Band 2 5MHz 16QAM | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-02-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / X-Position | | | | | | | |
| | Mode: | | LTE Band 2 16QAM, 5MHz | | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | |
| | | | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1852.50 | 10.59 | V | 1.60 | 9.12 | 18.11 | 33.0 | -14.9 | | |
| | 1852.50 | 11.95 | H | 1.60 | 9.12 | 19.47 | 33.0 | -13.5 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 13.05 | V | 1.62 | 8.62 | 20.05 | 33.0 | -12.9 | | |
| 1880.00 | 12.81 | H | 1.62 | 8.62 | 19.81 | 33.0 | -13.2 | | | |
| High Ch | | | | | | | | | | |
| 1907.50 | 12.02 | V | 1.63 | 8.46 | 18.85 | 33.0 | -14.1 | | | |
| 1907.50 | 11.32 | H | 1.63 | 8.46 | 18.15 | 33.0 | -14.8 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|------------------------|--|---|--------------------|-----------------------|---------------|----------------|----------------|-------|--|
| LTE Band 2 3MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-02-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / X-Position | | | | | | | |
| | Mode: | | LTE Band 2 QPSK, 3MHz | | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | |
| | | | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1851.50 | 13.62 | V | 1.60 | 9.12 | 21.14 | 33.0 | -11.9 | | |
| | 1851.50 | 12.95 | H | 1.60 | 9.12 | 20.47 | 33.0 | -12.5 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 14.21 | V | 1.62 | 8.62 | 21.21 | 33.0 | -11.8 | | |
| 1880.00 | 13.62 | H | 1.62 | 8.62 | 20.62 | 33.0 | -12.4 | | | |
| High Ch | | | | | | | | | | |
| 1908.50 | 10.15 | V | 1.63 | 8.45 | 16.97 | 33.0 | -16.0 | | | |
| 1908.50 | 12.85 | H | 1.63 | 8.45 | 19.67 | 33.0 | -13.3 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |
| LTE Band 2 3MHz 16QAM | Company: | | Samsung | | | | | | | |
| | Project #: | | 16K22867 | | | | | | | |
| | Date: | | 03-02-16 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT / X-Position | | | | | | | |
| | Mode: | | LTE Band 2 16QAM, 3MHz | | | | | | | |
| | Test Equipment: | | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | |
| | | | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1851.50 | 12.63 | V | 1.60 | 9.12 | 20.15 | 33.0 | -12.9 | | |
| | 1851.50 | 11.83 | H | 1.60 | 9.12 | 19.35 | 33.0 | -13.7 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 13.17 | V | 1.62 | 8.62 | 20.17 | 33.0 | -12.8 | | |
| 1880.00 | 12.82 | H | 1.62 | 8.62 | 19.82 | 33.0 | -13.2 | | | |
| High Ch | | | | | | | | | | |
| 1908.50 | 9.37 | V | 1.63 | 8.45 | 16.19 | 33.0 | -16.8 | | | |
| 1908.50 | 11.91 | H | 1.63 | 8.45 | 18.73 | 33.0 | -14.3 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|---|--|---------------------|--------------------|-----------------------|-----------------------|----------------|----------------|----------------|-------|
| LTE Band 2 1.4MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-03-16 Test Engineer: Steven.Kim Configuration: EUT / X-Position Mode: LTE Band 2 QPSK, 1.4MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1850.70 | 10.44 | V | 1.60 | 9.12 | 17.96 | 33.0 | -15.0 | | |
| | 1850.70 | 11.60 | H | 1.60 | 9.12 | 19.12 | 33.0 | -13.9 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 12.81 | V | 1.62 | 8.62 | 19.81 | 33.0 | -13.2 | | |
| | 1880.00 | 13.23 | H | 1.62 | 8.62 | 20.23 | 33.0 | -12.8 | | |
| | High Ch | | | | | | | | | |
| | 1909.30 | 9.06 | V | 1.63 | 8.44 | 15.87 | 33.0 | -17.1 | | |
| | 1909.30 | 11.76 | H | 1.63 | 8.44 | 18.57 | 33.0 | -14.4 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 2 1.4MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-03-16 Test Engineer: Steven.Kim Configuration: EUT / X-Position Mode: LTE Band 2 16QAM, 1.4MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| 1850.70 | | 9.70 | V | 1.60 | 9.12 | 17.22 | 33.0 | -15.8 | | |
| 1850.70 | | 10.40 | H | 1.60 | 9.12 | 17.92 | 33.0 | -15.1 | | |
| Mid Ch | | | | | | | | | | |
| 1880.00 | | 11.51 | V | 1.62 | 8.62 | 18.51 | 33.0 | -14.5 | | |
| 1880.00 | | 11.78 | H | 1.62 | 8.62 | 18.78 | 33.0 | -14.2 | | |
| High Ch | | | | | | | | | | |
| 1909.30 | | 8.24 | V | 1.63 | 8.44 | 15.05 | 33.0 | -17.9 | | |
| 1909.30 | | 10.94 | H | 1.63 | 8.44 | 17.75 | 33.0 | -15.2 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238 and §27. 53

LIMIT

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.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

GSM 850

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|-------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-----|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-----|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-----|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|
| GSM GSM850 GPRS | Company: Samsung Project #: 16K22867 Date: 03-02-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: GPRS 850 MHz | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</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">Low Ch, 824.2MHz</td></tr> <tr><td>1.6484</td><td>-14.5</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr> <tr><td>2.4726</td><td>4.4</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-34.1</td><td>-13.0</td><td>-21.1</td><td></td></tr> <tr><td>3.2968</td><td>-17.9</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-57.0</td><td>-13.0</td><td>-44.0</td><td></td></tr> <tr><td>1.6484</td><td>-12.2</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr> <tr><td>2.4726</td><td>6.8</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-31.8</td><td>-13.0</td><td>-18.8</td><td></td></tr> <tr><td>3.2968</td><td>-18.2</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td colspan="10">Mid Ch, 836.6MHz</td></tr> <tr><td>1.6730</td><td>-14.2</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> <tr><td>2.5098</td><td>-0.2</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-38.7</td><td>-13.0</td><td>-25.7</td><td></td></tr> <tr><td>3.3464</td><td>-17.3</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.4</td><td>-13.0</td><td>-43.4</td><td></td></tr> <tr><td>1.6730</td><td>-14.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr> <tr><td>2.5098</td><td>4.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-34.1</td><td>-13.0</td><td>-21.1</td><td></td></tr> <tr><td>3.3464</td><td>-17.6</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr> <tr><td colspan="10">High Ch, 848.8MHz</td></tr> <tr><td>1.6976</td><td>-13.8</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr> <tr><td>2.5466</td><td>7.6</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-30.9</td><td>-13.0</td><td>-17.9</td><td></td></tr> <tr><td>3.3952</td><td>-17.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr> <tr><td>1.6976</td><td>-16.7</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr> <tr><td>2.5466</td><td>5.1</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-33.5</td><td>-13.0</td><td>-20.5</td><td></td></tr> <tr><td>3.3952</td><td>-17.7</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-56.9</td><td>-13.0</td><td>-43.9</td><td></td></tr> </tbody> </table> <p>Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</p> | | | | | | | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 824.2MHz | | | | | | | | | | 1.6484 | -14.5 | V | 3.0 | 39.1 | 1.0 | -52.6 | -13.0 | -39.6 | | 2.4726 | 4.4 | V | 3.0 | 39.5 | 1.0 | -34.1 | -13.0 | -21.1 | | 3.2968 | -17.9 | V | 3.0 | 40.1 | 1.0 | -57.0 | -13.0 | -44.0 | | 1.6484 | -12.2 | H | 3.0 | 39.1 | 1.0 | -50.3 | -13.0 | -37.3 | | 2.4726 | 6.8 | H | 3.0 | 39.5 | 1.0 | -31.8 | -13.0 | -18.8 | | 3.2968 | -18.2 | H | 3.0 | 40.1 | 1.0 | -57.3 | -13.0 | -44.3 | | Mid Ch, 836.6MHz | | | | | | | | | | 1.6730 | -14.2 | V | 3.0 | 39.1 | 1.0 | -52.3 | -13.0 | -39.3 | | 2.5098 | -0.2 | V | 3.0 | 39.5 | 1.0 | -38.7 | -13.0 | -25.7 | | 3.3464 | -17.3 | V | 3.0 | 40.1 | 1.0 | -56.4 | -13.0 | -43.4 | | 1.6730 | -14.6 | H | 3.0 | 39.1 | 1.0 | -52.7 | -13.0 | -39.7 | | 2.5098 | 4.4 | H | 3.0 | 39.5 | 1.0 | -34.1 | -13.0 | -21.1 | | 3.3464 | -17.6 | H | 3.0 | 40.1 | 1.0 | -56.8 | -13.0 | -43.8 | | High Ch, 848.8MHz | | | | | | | | | | 1.6976 | -13.8 | V | 3.0 | 39.1 | 1.0 | -51.9 | -13.0 | -38.9 | | 2.5466 | 7.6 | V | 3.0 | 39.6 | 1.0 | -30.9 | -13.0 | -17.9 | | 3.3952 | -17.3 | V | 3.0 | 40.2 | 1.0 | -56.5 | -13.0 | -43.5 | | 1.6976 | -16.7 | H | 3.0 | 39.1 | 1.0 | -54.8 | -13.0 | -41.8 | | 2.5466 | 5.1 | H | 3.0 | 39.6 | 1.0 | -33.5 | -13.0 | -20.5 | | 3.3952 | -17.7 | H | 3.0 | 40.2 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Ch, 824.2MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6484 | -14.5 | V | 3.0 | 39.1 | 1.0 | -52.6 | -13.0 | -39.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4726 | 4.4 | V | 3.0 | 39.5 | 1.0 | -34.1 | -13.0 | -21.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.2968 | -17.9 | V | 3.0 | 40.1 | 1.0 | -57.0 | -13.0 | -44.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6484 | -12.2 | H | 3.0 | 39.1 | 1.0 | -50.3 | -13.0 | -37.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4726 | 6.8 | H | 3.0 | 39.5 | 1.0 | -31.8 | -13.0 | -18.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.2968 | -18.2 | H | 3.0 | 40.1 | 1.0 | -57.3 | -13.0 | -44.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Ch, 836.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | -14.2 | V | 3.0 | 39.1 | 1.0 | -52.3 | -13.0 | -39.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5098 | -0.2 | V | 3.0 | 39.5 | 1.0 | -38.7 | -13.0 | -25.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3464 | -17.3 | V | 3.0 | 40.1 | 1.0 | -56.4 | -13.0 | -43.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | -14.6 | H | 3.0 | 39.1 | 1.0 | -52.7 | -13.0 | -39.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5098 | 4.4 | H | 3.0 | 39.5 | 1.0 | -34.1 | -13.0 | -21.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3464 | -17.6 | H | 3.0 | 40.1 | 1.0 | -56.8 | -13.0 | -43.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch, 848.8MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6976 | -13.8 | V | 3.0 | 39.1 | 1.0 | -51.9 | -13.0 | -38.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5466 | 7.6 | V | 3.0 | 39.6 | 1.0 | -30.9 | -13.0 | -17.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3952 | -17.3 | V | 3.0 | 40.2 | 1.0 | -56.5 | -13.0 | -43.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6976 | -16.7 | H | 3.0 | 39.1 | 1.0 | -54.8 | -13.0 | -41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5466 | 5.1 | H | 3.0 | 39.6 | 1.0 | -33.5 | -13.0 | -20.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3952 | -17.7 | H | 3.0 | 40.2 | 1.0 | -56.9 | -13.0 | -43.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GSM GSM850 EGPRS | Company: Samsung Project #: 16K22867 Date: 03-02-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: EGPRS 850 MHz | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 1</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</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">Low Ch, 824.2MHz</td></tr> <tr><td>1.6484</td><td>-19.7</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr> <tr><td>2.4726</td><td>0.9</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-37.6</td><td>-13.0</td><td>-24.6</td><td></td></tr> <tr><td>3.2968</td><td>-18.0</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-57.1</td><td>-13.0</td><td>-44.1</td><td></td></tr> <tr><td>1.6484</td><td>-18.1</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>2.4726</td><td>1.1</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-37.5</td><td>-13.0</td><td>-24.5</td><td></td></tr> <tr><td>3.2968</td><td>-18.0</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-57.1</td><td>-13.0</td><td>-44.1</td><td></td></tr> <tr><td colspan="10">Mid Ch, 836.6MHz</td></tr> <tr><td>1.6730</td><td>-19.5</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr> <tr><td>2.5098</td><td>-8.4</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr> <tr><td>3.3464</td><td>-17.5</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.6</td><td>-13.0</td><td>-43.6</td><td></td></tr> <tr><td>1.6730</td><td>-18.7</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr> <tr><td>2.5098</td><td>-0.3</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-38.9</td><td>-13.0</td><td>-25.9</td><td></td></tr> <tr><td>3.3464</td><td>-17.7</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.9</td><td>-13.0</td><td>-43.9</td><td></td></tr> <tr><td colspan="10">High Ch, 848.8MHz</td></tr> <tr><td>1.6976</td><td>-19.1</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-57.2</td><td>-13.0</td><td>-44.2</td><td></td></tr> <tr><td>2.5466</td><td>2.4</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-36.1</td><td>-13.0</td><td>-23.1</td><td></td></tr> <tr><td>3.3952</td><td>-17.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr> <tr><td>1.6976</td><td>-21.0</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-59.1</td><td>-13.0</td><td>-46.1</td><td></td></tr> <tr><td>2.5466</td><td>-0.2</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-38.8</td><td>-13.0</td><td>-25.8</td><td></td></tr> <tr><td>3.3952</td><td>-17.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-57.0</td><td>-13.0</td><td>-44.0</td><td></td></tr> </tbody> </table> <p>Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</p> | | | | | | | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 824.2MHz | | | | | | | | | | 1.6484 | -19.7 | V | 3.0 | 39.1 | 1.0 | -57.8 | -13.0 | -44.8 | | 2.4726 | 0.9 | V | 3.0 | 39.5 | 1.0 | -37.6 | -13.0 | -24.6 | | 3.2968 | -18.0 | V | 3.0 | 40.1 | 1.0 | -57.1 | -13.0 | -44.1 | | 1.6484 | -18.1 | H | 3.0 | 39.1 | 1.0 | -56.2 | -13.0 | -43.2 | | 2.4726 | 1.1 | H | 3.0 | 39.5 | 1.0 | -37.5 | -13.0 | -24.5 | | 3.2968 | -18.0 | H | 3.0 | 40.1 | 1.0 | -57.1 | -13.0 | -44.1 | | Mid Ch, 836.6MHz | | | | | | | | | | 1.6730 | -19.5 | V | 3.0 | 39.1 | 1.0 | -57.6 | -13.0 | -44.6 | | 2.5098 | -8.4 | V | 3.0 | 39.5 | 1.0 | -47.0 | -13.0 | -34.0 | | 3.3464 | -17.5 | V | 3.0 | 40.1 | 1.0 | -56.6 | -13.0 | -43.6 | | 1.6730 | -18.7 | H | 3.0 | 39.1 | 1.0 | -56.8 | -13.0 | -43.8 | | 2.5098 | -0.3 | H | 3.0 | 39.5 | 1.0 | -38.9 | -13.0 | -25.9 | | 3.3464 | -17.7 | H | 3.0 | 40.1 | 1.0 | -56.9 | -13.0 | -43.9 | | High Ch, 848.8MHz | | | | | | | | | | 1.6976 | -19.1 | V | 3.0 | 39.1 | 1.0 | -57.2 | -13.0 | -44.2 | | 2.5466 | 2.4 | V | 3.0 | 39.6 | 1.0 | -36.1 | -13.0 | -23.1 | | 3.3952 | -17.6 | V | 3.0 | 40.2 | 1.0 | -56.8 | -13.0 | -43.8 | | 1.6976 | -21.0 | H | 3.0 | 39.1 | 1.0 | -59.1 | -13.0 | -46.1 | | 2.5466 | -0.2 | H | 3.0 | 39.6 | 1.0 | -38.8 | -13.0 | -25.8 | | 3.3952 | -17.8 | H | 3.0 | 40.2 | 1.0 | -57.0 | -13.0 | -44.0 | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Ch, 824.2MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6484 | -19.7 | V | 3.0 | 39.1 | 1.0 | -57.8 | -13.0 | -44.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4726 | 0.9 | V | 3.0 | 39.5 | 1.0 | -37.6 | -13.0 | -24.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.2968 | -18.0 | V | 3.0 | 40.1 | 1.0 | -57.1 | -13.0 | -44.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6484 | -18.1 | H | 3.0 | 39.1 | 1.0 | -56.2 | -13.0 | -43.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4726 | 1.1 | H | 3.0 | 39.5 | 1.0 | -37.5 | -13.0 | -24.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.2968 | -18.0 | H | 3.0 | 40.1 | 1.0 | -57.1 | -13.0 | -44.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Ch, 836.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | -19.5 | V | 3.0 | 39.1 | 1.0 | -57.6 | -13.0 | -44.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5098 | -8.4 | V | 3.0 | 39.5 | 1.0 | -47.0 | -13.0 | -34.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3464 | -17.5 | V | 3.0 | 40.1 | 1.0 | -56.6 | -13.0 | -43.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | -18.7 | H | 3.0 | 39.1 | 1.0 | -56.8 | -13.0 | -43.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5098 | -0.3 | H | 3.0 | 39.5 | 1.0 | -38.9 | -13.0 | -25.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3464 | -17.7 | H | 3.0 | 40.1 | 1.0 | -56.9 | -13.0 | -43.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch, 848.8MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6976 | -19.1 | V | 3.0 | 39.1 | 1.0 | -57.2 | -13.0 | -44.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5466 | 2.4 | V | 3.0 | 39.6 | 1.0 | -36.1 | -13.0 | -23.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3952 | -17.6 | V | 3.0 | 40.2 | 1.0 | -56.8 | -13.0 | -43.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6976 | -21.0 | H | 3.0 | 39.1 | 1.0 | -59.1 | -13.0 | -46.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5466 | -0.2 | H | 3.0 | 39.6 | 1.0 | -38.8 | -13.0 | -25.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3952 | -17.8 | H | 3.0 | 40.2 | 1.0 | -57.0 | -13.0 | -44.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GSM 1900

| UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|---|--------------|---------------|-------------|--------------|-------------|------------|-------|
| Company: | | Samsung | | | | | | | |
| Project #: | | 16K23303 | | | | | | | |
| Date: | | 04-26-16 | | | | | | | |
| Test Engineer: | | YH Lim | | | | | | | |
| Configuration: | | EUT / AC Adapter / Earphone, X Position | | | | | | | |
| Mode: | | GPRS 1900 | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| Chamber 2 | | AFS42 | | Filter 1 | | Part 24 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1850.2MHz | | | | | | | | | |
| 3.7004 | -1.8 | V | 3.0 | 40.5 | 1.0 | -41.3 | -13.0 | -28.3 | |
| 5.5506 | 8.0 | V | 3.0 | 40.8 | 1.0 | -31.8 | -13.0 | -18.8 | |
| 7.4008 | -1.4 | V | 3.0 | 40.8 | 1.0 | -41.2 | -13.0 | -28.2 | |
| 3.7000 | -2.6 | H | 3.0 | 40.5 | 1.0 | -42.1 | -13.0 | -29.1 | |
| 5.5506 | 1.0 | H | 3.0 | 40.8 | 1.0 | -38.9 | -13.0 | -25.9 | |
| 7.4008 | -6.8 | H | 3.0 | 40.8 | 1.0 | -46.6 | -13.0 | -33.6 | |
| Mid Ch, 1880.0MHz | | | | | | | | | |
| 3.7600 | -5.8 | V | 3.0 | 40.5 | 1.0 | -45.4 | -13.0 | -32.4 | |
| 5.6400 | 7.2 | V | 3.0 | 40.8 | 1.0 | -32.6 | -13.0 | -19.6 | |
| 7.5200 | -4.1 | V | 3.0 | 40.7 | 1.0 | -43.8 | -13.0 | -30.8 | |
| 3.7600 | -9.0 | H | 3.0 | 40.5 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 5.6400 | 2.0 | H | 3.0 | 40.8 | 1.0 | -37.8 | -13.0 | -24.8 | |
| 7.5200 | -8.5 | H | 3.0 | 40.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| High Ch, 1909.8 MHz | | | | | | | | | |
| 3.8196 | -10.2 | V | 3.0 | 40.6 | 1.0 | -49.8 | -13.0 | -36.8 | |
| 5.7294 | 3.2 | V | 3.0 | 40.8 | 1.0 | -36.6 | -13.0 | -23.6 | |
| 7.6392 | -4.8 | V | 3.0 | 40.7 | 1.0 | -44.5 | -13.0 | -31.5 | |
| 3.8196 | -12.2 | H | 3.0 | 40.6 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 5.7294 | 4.9 | H | 3.0 | 40.8 | 1.0 | -34.9 | -13.0 | -21.9 | |
| 7.6392 | -9.5 | H | 3.0 | 40.7 | 1.0 | -49.1 | -13.0 | -36.1 | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

| UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|---|--------------|---------------|-------------|--------------|-------------|------------|-------|
| Company: | | Samsung | | | | | | | |
| Project #: | | 16K23303 | | | | | | | |
| Date: | | 04-26-16 | | | | | | | |
| Test Engineer: | | YH Lim | | | | | | | |
| Configuration: | | EUT / AC Adapter / Earphone, X Position | | | | | | | |
| Mode: | | EGPRS 1900 MHz | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| Chamber 2 | | AFS42 | | Filter 1 | | Part 24 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1850.2MHz | | | | | | | | | |
| 3.7004 | -12.9 | V | 3.0 | 40.5 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 5.5506 | 1.6 | V | 3.0 | 40.8 | 1.0 | -38.3 | -13.0 | -25.3 | |
| 7.4008 | -9.9 | V | 3.0 | 40.8 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 3.7000 | -12.8 | H | 3.0 | 40.5 | 1.0 | -52.3 | -13.0 | -39.3 | |
| 5.5500 | -4.2 | H | 3.0 | 40.8 | 1.0 | -44.1 | -13.0 | -31.1 | |
| 7.4000 | -11.1 | H | 3.0 | 40.8 | 1.0 | -50.9 | -13.0 | -37.9 | |
| Mid Ch, 1880.0MHz | | | | | | | | | |
| 3.7600 | -8.1 | V | 3.0 | 40.5 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 5.6400 | 0.8 | V | 3.0 | 40.8 | 1.0 | -39.0 | -13.0 | -26.0 | |
| 7.5200 | -9.9 | V | 3.0 | 40.7 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 3.7600 | -15.7 | H | 3.0 | 40.5 | 1.0 | -55.2 | -13.0 | -42.2 | |
| 5.6400 | -6.0 | H | 3.0 | 40.8 | 1.0 | -45.8 | -13.0 | -32.8 | |
| 7.5200 | -11.3 | H | 3.0 | 40.7 | 1.0 | -51.0 | -13.0 | -38.0 | |
| High Ch, 1909.8 MHz | | | | | | | | | |
| 3.8196 | -6.3 | V | 3.0 | 40.6 | 1.0 | -45.9 | -13.0 | -32.9 | |
| 5.7294 | -5.0 | V | 3.0 | 40.8 | 1.0 | -44.8 | -13.0 | -31.8 | |
| 7.6392 | -8.7 | V | 3.0 | 40.7 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 3.8196 | -11.0 | H | 3.0 | 40.6 | 1.0 | -50.6 | -13.0 | -37.6 | |
| 5.7294 | -4.3 | H | 3.0 | 40.8 | 1.0 | -44.1 | -13.0 | -31.1 | |
| 7.6392 | -10.9 | H | 3.0 | 40.7 | 1.0 | -50.6 | -13.0 | -37.6 | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

WCDMA B5

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|--|--------------|----------------------|-------------|------------------|-------------|----------------|-------|--|--|
| WCDMA | Band 5 REL99 | Company: Samsung | | | | | | | | | |
| | | Project #: 16K22867 | | | | | | | | | |
| | | Date: 03-02-16 | | | | | | | | | |
| | | Test Engineer: Steven Kim | | | | | | | | | |
| | | Configuration: EUT / AC Adapter / Earphone, Y Position | | | | | | | | | |
| | | Mode: Tx, REL99,850MHz | | | | | | | | | |
| | | Chamber: Chamber 2 | | Pre-amplifier: AFS42 | | Filter: Filter 1 | | Limit: Part 22 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| Low Ch, 826.40MHz | | | | | | | | | | | |
| 1.6520 | -19.0 | V | 3.0 | 39.1 | 1.0 | -57.1 | -13.0 | -44.1 | | | |
| 2.4790 | -8.2 | V | 3.0 | 39.5 | 1.0 | -46.8 | -13.0 | -33.8 | | | |
| 3.3056 | -16.1 | V | 3.0 | 40.1 | 1.0 | -55.2 | -13.0 | -42.2 | | | |
| 1.6520 | -20.9 | H | 3.0 | 39.1 | 1.0 | -59.0 | -13.0 | -46.0 | | | |
| 2.4790 | -15.7 | H | 3.0 | 39.5 | 1.0 | -54.2 | -13.0 | -41.2 | | | |
| 3.3056 | -16.2 | H | 3.0 | 40.1 | 1.0 | -55.3 | -13.0 | -42.3 | | | |
| Mid Ch, 836.6MHz | | | | | | | | | | | |
| 1.6732 | -19.0 | V | 3.0 | 39.1 | 1.0 | -57.1 | -13.0 | -44.1 | | | |
| 2.5098 | -8.6 | V | 3.0 | 39.5 | 1.0 | -47.2 | -13.0 | -34.2 | | | |
| 3.3464 | -16.0 | V | 3.0 | 40.1 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| 1.6732 | -20.3 | H | 3.0 | 39.1 | 1.0 | -58.5 | -13.0 | -45.5 | | | |
| 2.5098 | -13.7 | H | 3.0 | 39.5 | 1.0 | -52.2 | -13.0 | -39.2 | | | |
| 3.3464 | -16.2 | H | 3.0 | 40.1 | 1.0 | -55.3 | -13.0 | -42.3 | | | |
| High Ch, 846.6MHz | | | | | | | | | | | |
| 1.6932 | -18.9 | V | 3.0 | 39.1 | 1.0 | -57.1 | -13.0 | -44.1 | | | |
| 2.5390 | -7.3 | V | 3.0 | 39.6 | 1.0 | -45.9 | -13.0 | -32.9 | | | |
| 3.3860 | -15.9 | V | 3.0 | 40.2 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| 1.6932 | -20.3 | H | 3.0 | 39.1 | 1.0 | -58.4 | -13.0 | -45.4 | | | |
| 2.5390 | -14.3 | H | 3.0 | 39.6 | 1.0 | -52.9 | -13.0 | -39.9 | | | |
| 3.3860 | -16.2 | H | 3.0 | 40.2 | 1.0 | -55.4 | -13.0 | -42.4 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| WCDMA | Band 5 HSDPA | Company: Samsung | | | | | | | | | |
| | | Project #: 16K22867 | | | | | | | | | |
| | | Date: 03-02-16 | | | | | | | | | |
| | | Test Engineer: Steven Kim | | | | | | | | | |
| | | Configuration: EUT / AC Adapter / Earphone, Y Position | | | | | | | | | |
| | | Mode: Tx, HSDPA,850MHz | | | | | | | | | |
| | | Chamber: Chamber 2 | | Pre-amplifier: AFS42 | | Filter: Filter 1 | | Limit: Part 22 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| Low Ch, 826.40MHz | | | | | | | | | | | |
| 1.6520 | -19.0 | V | 3.0 | 39.1 | 1.0 | -57.1 | -13.0 | -44.1 | | | |
| 2.4790 | -17.8 | V | 3.0 | 39.5 | 1.0 | -56.3 | -13.0 | -43.3 | | | |
| 3.3056 | -16.2 | V | 3.0 | 40.1 | 1.0 | -55.3 | -13.0 | -42.3 | | | |
| 1.6520 | -20.9 | H | 3.0 | 39.1 | 1.0 | -59.0 | -13.0 | -46.0 | | | |
| 2.4790 | -18.2 | H | 3.0 | 39.5 | 1.0 | -56.7 | -13.0 | -43.7 | | | |
| 3.3056 | -16.4 | H | 3.0 | 40.1 | 1.0 | -55.5 | -13.0 | -42.5 | | | |
| Mid Ch, 836.6MHz | | | | | | | | | | | |
| 1.6732 | -19.0 | V | 3.0 | 39.1 | 1.0 | -57.2 | -13.0 | -44.2 | | | |
| 2.5098 | -17.7 | V | 3.0 | 39.5 | 1.0 | -56.2 | -13.0 | -43.2 | | | |
| 3.3464 | -16.0 | V | 3.0 | 40.1 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| 1.6732 | -20.7 | H | 3.0 | 39.1 | 1.0 | -58.8 | -13.0 | -45.8 | | | |
| 2.5098 | -18.0 | H | 3.0 | 39.5 | 1.0 | -56.6 | -13.0 | -43.6 | | | |
| 3.3464 | -16.2 | H | 3.0 | 40.1 | 1.0 | -55.3 | -13.0 | -42.3 | | | |
| High Ch, 846.6MHz | | | | | | | | | | | |
| 1.6932 | -19.3 | V | 3.0 | 39.1 | 1.0 | -57.4 | -13.0 | -44.4 | | | |
| 2.5390 | -17.5 | V | 3.0 | 39.6 | 1.0 | -56.1 | -13.0 | -43.1 | | | |
| 3.3860 | -16.0 | V | 3.0 | 40.2 | 1.0 | -55.2 | -13.0 | -42.2 | | | |
| 1.6932 | -20.7 | H | 3.0 | 39.1 | 1.0 | -58.8 | -13.0 | -45.8 | | | |
| 2.5390 | -17.9 | H | 3.0 | 39.6 | 1.0 | -56.5 | -13.0 | -43.5 | | | |
| 3.3860 | -16.3 | H | 3.0 | 40.2 | 1.0 | -55.5 | -13.0 | -42.5 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

WCDMA B4

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| WCDMA Band 4 REL99 | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone / Z Position Mode: Tx, REL99,1700MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 24</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</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">Low Ch, 1712.4MHz</td></tr> <tr><td>3.4248</td><td>-12.4</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-51.7</td><td>-13.0</td><td>-38.7</td><td></td></tr> <tr><td>5.1372</td><td>-11.0</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>6.8496</td><td>-6.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr> <tr><td>3.4248</td><td>-12.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr> <tr><td>5.1372</td><td>-9.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr> <tr><td>6.8496</td><td>-0.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-40.4</td><td>-13.0</td><td>-27.4</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1732.6MHz</td></tr> <tr><td>3.4652</td><td>-12.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>5.1978</td><td>-10.6</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr> <tr><td>6.9304</td><td>-5.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr> <tr><td>3.4652</td><td>-12.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td><td></td></tr> <tr><td>5.1978</td><td>-10.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr> <tr><td>6.9304</td><td>-0.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-40.9</td><td>-13.0</td><td>-27.9</td><td></td></tr> <tr><td colspan="10">High Ch, 1752.6MHz</td></tr> <tr><td>3.5052</td><td>-12.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>5.2578</td><td>-10.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td>7.0104</td><td>-7.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-47.1</td><td>-13.0</td><td>-34.1</td><td></td></tr> <tr><td>3.5052</td><td>-12.2</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>5.2578</td><td>-9.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> <tr><td>7.0104</td><td>0.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-39.3</td><td>-13.0</td><td>-26.3</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 1712.4MHz | | | | | | | | | | 3.4248 | -12.4 | V | 3.0 | 40.2 | 1.0 | -51.7 | -13.0 | -38.7 | | 5.1372 | -11.0 | V | 3.0 | 40.9 | 1.0 | -50.9 | -13.0 | -37.9 | | 6.8496 | -6.1 | V | 3.0 | 41.0 | 1.0 | -46.1 | -13.0 | -33.1 | | 3.4248 | -12.8 | H | 3.0 | 40.2 | 1.0 | -52.0 | -13.0 | -39.0 | | 5.1372 | -9.9 | H | 3.0 | 40.9 | 1.0 | -49.8 | -13.0 | -36.8 | | 6.8496 | -0.5 | H | 3.0 | 41.0 | 1.0 | -40.4 | -13.0 | -27.4 | | Mid Ch, 1732.6MHz | | | | | | | | | | 3.4652 | -12.2 | V | 3.0 | 40.3 | 1.0 | -51.5 | -13.0 | -38.5 | | 5.1978 | -10.6 | V | 3.0 | 40.9 | 1.0 | -50.5 | -13.0 | -37.5 | | 6.9304 | -5.0 | V | 3.0 | 41.0 | 1.0 | -45.0 | -13.0 | -32.0 | | 3.4652 | -12.4 | H | 3.0 | 40.3 | 1.0 | -51.6 | -13.0 | -38.6 | | 5.1978 | -10.0 | H | 3.0 | 40.9 | 1.0 | -49.8 | -13.0 | -36.8 | | 6.9304 | -0.9 | H | 3.0 | 41.0 | 1.0 | -40.9 | -13.0 | -27.9 | | High Ch, 1752.6MHz | | | | | | | | | | 3.5052 | -12.2 | V | 3.0 | 40.3 | 1.0 | -51.5 | -13.0 | -38.5 | | 5.2578 | -10.9 | V | 3.0 | 40.9 | 1.0 | -50.8 | -13.0 | -37.8 | | 7.0104 | -7.0 | V | 3.0 | 41.0 | 1.0 | -47.1 | -13.0 | -34.1 | | 3.5052 | -12.2 | H | 3.0 | 40.3 | 1.0 | -51.5 | -13.0 | -38.5 | | 5.2578 | -9.2 | H | 3.0 | 40.9 | 1.0 | -49.1 | -13.0 | -36.1 | | 7.0104 | 0.7 | H | 3.0 | 41.0 | 1.0 | -39.3 | -13.0 | -26.3 | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Ch, 1712.4MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4248 | -12.4 | V | 3.0 | 40.2 | 1.0 | -51.7 | -13.0 | -38.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1372 | -11.0 | V | 3.0 | 40.9 | 1.0 | -50.9 | -13.0 | -37.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.8496 | -6.1 | V | 3.0 | 41.0 | 1.0 | -46.1 | -13.0 | -33.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4248 | -12.8 | H | 3.0 | 40.2 | 1.0 | -52.0 | -13.0 | -39.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1372 | -9.9 | H | 3.0 | 40.9 | 1.0 | -49.8 | -13.0 | -36.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.8496 | -0.5 | H | 3.0 | 41.0 | 1.0 | -40.4 | -13.0 | -27.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Ch, 1732.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4652 | -12.2 | V | 3.0 | 40.3 | 1.0 | -51.5 | -13.0 | -38.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1978 | -10.6 | V | 3.0 | 40.9 | 1.0 | -50.5 | -13.0 | -37.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.9304 | -5.0 | V | 3.0 | 41.0 | 1.0 | -45.0 | -13.0 | -32.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4652 | -12.4 | H | 3.0 | 40.3 | 1.0 | -51.6 | -13.0 | -38.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1978 | -10.0 | H | 3.0 | 40.9 | 1.0 | -49.8 | -13.0 | -36.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.9304 | -0.9 | H | 3.0 | 41.0 | 1.0 | -40.9 | -13.0 | -27.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | High Ch, 1752.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.5052 | -12.2 | V | 3.0 | 40.3 | 1.0 | -51.5 | -13.0 | -38.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2578 | -10.9 | V | 3.0 | 40.9 | 1.0 | -50.8 | -13.0 | -37.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0104 | -7.0 | V | 3.0 | 41.0 | 1.0 | -47.1 | -13.0 | -34.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5052 | -12.2 | H | 3.0 | 40.3 | 1.0 | -51.5 | -13.0 | -38.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2578 | -9.2 | H | 3.0 | 40.9 | 1.0 | -49.1 | -13.0 | -36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0104 | 0.7 | H | 3.0 | 41.0 | 1.0 | -39.3 | -13.0 | -26.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WCDMA Band 4 HSDPA | Company: Samsung Project #: 16K23303 Date: 04-20-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone / Z Position Mode: Tx, HSDPA,1700MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 24</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</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">Low Ch, 1712.4MHz</td></tr> <tr><td>3.4248</td><td>-12.9</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.2</td><td>-13.0</td><td>-39.2</td><td></td></tr> <tr><td>5.1372</td><td>-9.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> <tr><td>6.8496</td><td>-5.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr> <tr><td>3.4248</td><td>-12.0</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>5.1372</td><td>-9.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.9</td><td>-13.0</td><td>-35.9</td><td></td></tr> <tr><td>6.8496</td><td>0.3</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-39.7</td><td>-13.0</td><td>-26.7</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1732.6MHz</td></tr> <tr><td>3.4652</td><td>-12.3</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>5.1978</td><td>-9.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr> <tr><td>6.9304</td><td>-4.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-44.0</td><td>-13.0</td><td>-31.0</td><td></td></tr> <tr><td>3.4652</td><td>-12.1</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>5.1978</td><td>-9.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> <tr><td>6.9304</td><td>-0.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-40.6</td><td>-13.0</td><td>-27.6</td><td></td></tr> <tr><td colspan="10">High Ch, 1752.6MHz</td></tr> <tr><td>3.5052</td><td>-12.5</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr> <tr><td>5.2578</td><td>-8.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>7.0104</td><td>-5.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-45.9</td><td>-13.0</td><td>-32.9</td><td></td></tr> <tr><td>3.5052</td><td>-11.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>5.2578</td><td>-8.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr> <tr><td>7.0104</td><td>1.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-38.2</td><td>-13.0</td><td>-25.2</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 1712.4MHz | | | | | | | | | | 3.4248 | -12.9 | V | 3.0 | 40.2 | 1.0 | -52.2 | -13.0 | -39.2 | | 5.1372 | -9.2 | V | 3.0 | 40.9 | 1.0 | -49.1 | -13.0 | -36.1 | | 6.8496 | -5.0 | V | 3.0 | 41.0 | 1.0 | -45.0 | -13.0 | -32.0 | | 3.4248 | -12.0 | H | 3.0 | 40.2 | 1.0 | -51.3 | -13.0 | -38.3 | | 5.1372 | -9.0 | H | 3.0 | 40.9 | 1.0 | -48.9 | -13.0 | -35.9 | | 6.8496 | 0.3 | H | 3.0 | 41.0 | 1.0 | -39.7 | -13.0 | -26.7 | | Mid Ch, 1732.6MHz | | | | | | | | | | 3.4652 | -12.3 | V | 3.0 | 40.3 | 1.0 | -51.5 | -13.0 | -38.5 | | 5.1978 | -9.1 | V | 3.0 | 40.9 | 1.0 | -49.0 | -13.0 | -36.0 | | 6.9304 | -4.0 | V | 3.0 | 41.0 | 1.0 | -44.0 | -13.0 | -31.0 | | 3.4652 | -12.1 | H | 3.0 | 40.3 | 1.0 | -51.3 | -13.0 | -38.3 | | 5.1978 | -9.2 | H | 3.0 | 40.9 | 1.0 | -49.1 | -13.0 | -36.1 | | 6.9304 | -0.6 | H | 3.0 | 41.0 | 1.0 | -40.6 | -13.0 | -27.6 | | High Ch, 1752.6MHz | | | | | | | | | | 3.5052 | -12.5 | V | 3.0 | 40.3 | 1.0 | -51.8 | -13.0 | -38.8 | | 5.2578 | -8.7 | V | 3.0 | 40.9 | 1.0 | -48.5 | -13.0 | -35.5 | | 7.0104 | -5.8 | V | 3.0 | 41.0 | 1.0 | -45.9 | -13.0 | -32.9 | | 3.5052 | -11.6 | H | 3.0 | 40.3 | 1.0 | -50.9 | -13.0 | -37.9 | | 5.2578 | -8.5 | H | 3.0 | 40.9 | 1.0 | -48.4 | -13.0 | -35.4 | | 7.0104 | 1.9 | H | 3.0 | 41.0 | 1.0 | -38.2 | -13.0 | -25.2 | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Ch, 1712.4MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4248 | -12.9 | V | 3.0 | 40.2 | 1.0 | -52.2 | -13.0 | -39.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1372 | -9.2 | V | 3.0 | 40.9 | 1.0 | -49.1 | -13.0 | -36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.8496 | -5.0 | V | 3.0 | 41.0 | 1.0 | -45.0 | -13.0 | -32.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4248 | -12.0 | H | 3.0 | 40.2 | 1.0 | -51.3 | -13.0 | -38.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1372 | -9.0 | H | 3.0 | 40.9 | 1.0 | -48.9 | -13.0 | -35.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.8496 | 0.3 | H | 3.0 | 41.0 | 1.0 | -39.7 | -13.0 | -26.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Ch, 1732.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4652 | -12.3 | V | 3.0 | 40.3 | 1.0 | -51.5 | -13.0 | -38.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1978 | -9.1 | V | 3.0 | 40.9 | 1.0 | -49.0 | -13.0 | -36.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.9304 | -4.0 | V | 3.0 | 41.0 | 1.0 | -44.0 | -13.0 | -31.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4652 | -12.1 | H | 3.0 | 40.3 | 1.0 | -51.3 | -13.0 | -38.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1978 | -9.2 | H | 3.0 | 40.9 | 1.0 | -49.1 | -13.0 | -36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.9304 | -0.6 | H | 3.0 | 41.0 | 1.0 | -40.6 | -13.0 | -27.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | High Ch, 1752.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.5052 | -12.5 | V | 3.0 | 40.3 | 1.0 | -51.8 | -13.0 | -38.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2578 | -8.7 | V | 3.0 | 40.9 | 1.0 | -48.5 | -13.0 | -35.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0104 | -5.8 | V | 3.0 | 41.0 | 1.0 | -45.9 | -13.0 | -32.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5052 | -11.6 | H | 3.0 | 40.3 | 1.0 | -50.9 | -13.0 | -37.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2578 | -8.5 | H | 3.0 | 40.9 | 1.0 | -48.4 | -13.0 | -35.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0104 | 1.9 | H | 3.0 | 41.0 | 1.0 | -38.2 | -13.0 | -25.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

WCDMA B2

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|-----------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|-------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|-----------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-----|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--|
| WCDMA Band 2 REL99 | Company: Samsung Project #: 16K23303 Date: 04-26-16 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, REL99,1900MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Part 24</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</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">Low Ch, 1852.4MHz</td></tr> <tr><td>3.7048</td><td>-7.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr> <tr><td>5.5572</td><td>5.0</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-34.8</td><td>-13.0</td><td>-21.8</td><td></td></tr> <tr><td>7.4096</td><td>-8.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr> <tr><td>3.7048</td><td>-11.1</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr> <tr><td>5.5572</td><td>-0.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-40.2</td><td>-13.0</td><td>-27.2</td><td></td></tr> <tr><td>7.4096</td><td>-9.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1890MHz</td></tr> <tr><td>3.7600</td><td>-2.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-42.0</td><td>-13.0</td><td>-29.0</td><td></td></tr> <tr><td>5.6400</td><td>2.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-37.1</td><td>-13.0</td><td>-24.1</td><td></td></tr> <tr><td>7.5200</td><td>-8.6</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-48.3</td><td>-13.0</td><td>-35.3</td><td></td></tr> <tr><td>3.7600</td><td>-8.3</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr> <tr><td>5.6400</td><td>-2.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.1</td><td>-13.0</td><td>-29.1</td><td></td></tr> <tr><td>7.5200</td><td>-9.4</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> <tr><td colspan="10">High Ch, 1907.6MHz</td></tr> <tr><td>3.8152</td><td>-3.9</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.5</td><td>-13.0</td><td>-30.5</td><td></td></tr> <tr><td>5.7228</td><td>5.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-34.6</td><td>-13.0</td><td>-21.6</td><td></td></tr> <tr><td>7.6304</td><td>-7.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr> <tr><td>3.8152</td><td>-8.7</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-48.3</td><td>-13.0</td><td>-35.3</td><td></td></tr> <tr><td>5.7228</td><td>0.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-39.3</td><td>-13.0</td><td>-26.3</td><td></td></tr> <tr><td>7.6304</td><td>-8.7</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-48.3</td><td>-13.0</td><td>-35.3</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 1852.4MHz | | | | | | | | | | 3.7048 | -7.0 | V | 3.0 | 40.5 | 1.0 | -46.5 | -13.0 | -33.5 | | 5.5572 | 5.0 | V | 3.0 | 40.8 | 1.0 | -34.8 | -13.0 | -21.8 | | 7.4096 | -8.6 | V | 3.0 | 40.8 | 1.0 | -48.4 | -13.0 | -35.4 | | 3.7048 | -11.1 | H | 3.0 | 40.5 | 1.0 | -50.5 | -13.0 | -37.5 | | 5.5572 | -0.3 | H | 3.0 | 40.8 | 1.0 | -40.2 | -13.0 | -27.2 | | 7.4096 | -9.7 | H | 3.0 | 40.8 | 1.0 | -49.5 | -13.0 | -36.5 | | Mid Ch, 1890MHz | | | | | | | | | | 3.7600 | -2.5 | V | 3.0 | 40.5 | 1.0 | -42.0 | -13.0 | -29.0 | | 5.6400 | 2.7 | V | 3.0 | 40.8 | 1.0 | -37.1 | -13.0 | -24.1 | | 7.5200 | -8.6 | V | 3.0 | 40.7 | 1.0 | -48.3 | -13.0 | -35.3 | | 3.7600 | -8.3 | H | 3.0 | 40.5 | 1.0 | -47.8 | -13.0 | -34.8 | | 5.6400 | -2.3 | H | 3.0 | 40.8 | 1.0 | -42.1 | -13.0 | -29.1 | | 7.5200 | -9.4 | H | 3.0 | 40.7 | 1.0 | -49.1 | -13.0 | -36.1 | | High Ch, 1907.6MHz | | | | | | | | | | 3.8152 | -3.9 | V | 3.0 | 40.6 | 1.0 | -43.5 | -13.0 | -30.5 | | 5.7228 | 5.2 | V | 3.0 | 40.8 | 1.0 | -34.6 | -13.0 | -21.6 | | 7.6304 | -7.0 | V | 3.0 | 40.7 | 1.0 | -46.7 | -13.0 | -33.7 | | 3.8152 | -8.7 | H | 3.0 | 40.6 | 1.0 | -48.3 | -13.0 | -35.3 | | 5.7228 | 0.5 | H | 3.0 | 40.8 | 1.0 | -39.3 | -13.0 | -26.3 | | 7.6304 | -8.7 | H | 3.0 | 40.7 | 1.0 | -48.3 | -13.0 | -35.3 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Ch, 1852.4MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7048 | -7.0 | V | 3.0 | 40.5 | 1.0 | -46.5 | -13.0 | -33.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5572 | 5.0 | V | 3.0 | 40.8 | 1.0 | -34.8 | -13.0 | -21.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4096 | -8.6 | V | 3.0 | 40.8 | 1.0 | -48.4 | -13.0 | -35.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7048 | -11.1 | H | 3.0 | 40.5 | 1.0 | -50.5 | -13.0 | -37.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5572 | -0.3 | H | 3.0 | 40.8 | 1.0 | -40.2 | -13.0 | -27.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4096 | -9.7 | H | 3.0 | 40.8 | 1.0 | -49.5 | -13.0 | -36.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 1890MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -2.5 | V | 3.0 | 40.5 | 1.0 | -42.0 | -13.0 | -29.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | 2.7 | V | 3.0 | 40.8 | 1.0 | -37.1 | -13.0 | -24.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -8.6 | V | 3.0 | 40.7 | 1.0 | -48.3 | -13.0 | -35.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -8.3 | H | 3.0 | 40.5 | 1.0 | -47.8 | -13.0 | -34.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -2.3 | H | 3.0 | 40.8 | 1.0 | -42.1 | -13.0 | -29.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -9.4 | H | 3.0 | 40.7 | 1.0 | -49.1 | -13.0 | -36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch, 1907.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8152 | -3.9 | V | 3.0 | 40.6 | 1.0 | -43.5 | -13.0 | -30.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7228 | 5.2 | V | 3.0 | 40.8 | 1.0 | -34.6 | -13.0 | -21.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6304 | -7.0 | V | 3.0 | 40.7 | 1.0 | -46.7 | -13.0 | -33.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8152 | -8.7 | H | 3.0 | 40.6 | 1.0 | -48.3 | -13.0 | -35.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7228 | 0.5 | H | 3.0 | 40.8 | 1.0 | -39.3 | -13.0 | -26.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6304 | -8.7 | H | 3.0 | 40.7 | 1.0 | -48.3 | -13.0 | -35.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WCDMA Band 2 HSDPA | Company: Samsung Project #: 16K23303 Date: 04-26-16 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, HSDPA,1900MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Part 24</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</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">Low Ch, 1852.4MHz</td></tr> <tr><td>3.7048</td><td>-9.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>5.5572</td><td>-2.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.7</td><td>-13.0</td><td>-29.7</td><td></td></tr> <tr><td>7.4096</td><td>-6.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>3.7048</td><td>-11.5</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.0</td><td>-13.0</td><td>-38.0</td><td></td></tr> <tr><td>5.5572</td><td>-3.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.5</td><td>-13.0</td><td>-30.5</td><td></td></tr> <tr><td>7.4096</td><td>-9.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1890MHz</td></tr> <tr><td>3.7600</td><td>-7.3</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr> <tr><td>5.6400</td><td>-1.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-40.9</td><td>-13.0</td><td>-27.9</td><td></td></tr> <tr><td>7.5200</td><td>-8.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr> <tr><td>3.7600</td><td>-8.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>5.6400</td><td>-4.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr> <tr><td>7.5200</td><td>-9.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr> <tr><td colspan="10">High Ch, 1907.6MHz</td></tr> <tr><td>3.8152</td><td>-0.6</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-40.2</td><td>-13.0</td><td>-27.2</td><td></td></tr> <tr><td>5.7228</td><td>1.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-38.5</td><td>-13.0</td><td>-25.5</td><td></td></tr> <tr><td>7.6304</td><td>-8.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr> <tr><td>3.8152</td><td>-8.9</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>5.7228</td><td>-3.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr> <tr><td>7.6304</td><td>-9.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-48.9</td><td>-13.0</td><td>-35.9</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 1852.4MHz | | | | | | | | | | 3.7048 | -9.0 | V | 3.0 | 40.5 | 1.0 | -48.5 | -13.0 | -35.5 | | 5.5572 | -2.9 | V | 3.0 | 40.8 | 1.0 | -42.7 | -13.0 | -29.7 | | 7.4096 | -6.5 | V | 3.0 | 40.8 | 1.0 | -46.3 | -13.0 | -33.3 | | 3.7048 | -11.5 | H | 3.0 | 40.5 | 1.0 | -51.0 | -13.0 | -38.0 | | 5.5572 | -3.7 | H | 3.0 | 40.8 | 1.0 | -43.5 | -13.0 | -30.5 | | 7.4096 | -9.8 | H | 3.0 | 40.8 | 1.0 | -49.6 | -13.0 | -36.6 | | Mid Ch, 1890MHz | | | | | | | | | | 3.7600 | -7.3 | V | 3.0 | 40.5 | 1.0 | -46.8 | -13.0 | -33.8 | | 5.6400 | -1.1 | V | 3.0 | 40.8 | 1.0 | -40.9 | -13.0 | -27.9 | | 7.5200 | -8.1 | V | 3.0 | 40.7 | 1.0 | -47.8 | -13.0 | -34.8 | | 3.7600 | -8.9 | H | 3.0 | 40.5 | 1.0 | -48.5 | -13.0 | -35.5 | | 5.6400 | -4.5 | H | 3.0 | 40.8 | 1.0 | -44.3 | -13.0 | -31.3 | | 7.5200 | -9.3 | H | 3.0 | 40.7 | 1.0 | -49.0 | -13.0 | -36.0 | | High Ch, 1907.6MHz | | | | | | | | | | 3.8152 | -0.6 | V | 3.0 | 40.6 | 1.0 | -40.2 | -13.0 | -27.2 | | 5.7228 | 1.3 | V | 3.0 | 40.8 | 1.0 | -38.5 | -13.0 | -25.5 | | 7.6304 | -8.0 | V | 3.0 | 40.7 | 1.0 | -47.6 | -13.0 | -34.6 | | 3.8152 | -8.9 | H | 3.0 | 40.6 | 1.0 | -48.5 | -13.0 | -35.5 | | 5.7228 | -3.2 | H | 3.0 | 40.8 | 1.0 | -43.0 | -13.0 | -30.0 | | 7.6304 | -9.3 | H | 3.0 | 40.7 | 1.0 | -48.9 | -13.0 | -35.9 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Ch, 1852.4MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7048 | -9.0 | V | 3.0 | 40.5 | 1.0 | -48.5 | -13.0 | -35.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5572 | -2.9 | V | 3.0 | 40.8 | 1.0 | -42.7 | -13.0 | -29.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4096 | -6.5 | V | 3.0 | 40.8 | 1.0 | -46.3 | -13.0 | -33.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7048 | -11.5 | H | 3.0 | 40.5 | 1.0 | -51.0 | -13.0 | -38.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5572 | -3.7 | H | 3.0 | 40.8 | 1.0 | -43.5 | -13.0 | -30.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4096 | -9.8 | H | 3.0 | 40.8 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 1890MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -7.3 | V | 3.0 | 40.5 | 1.0 | -46.8 | -13.0 | -33.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -1.1 | V | 3.0 | 40.8 | 1.0 | -40.9 | -13.0 | -27.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -8.1 | V | 3.0 | 40.7 | 1.0 | -47.8 | -13.0 | -34.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -8.9 | H | 3.0 | 40.5 | 1.0 | -48.5 | -13.0 | -35.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -4.5 | H | 3.0 | 40.8 | 1.0 | -44.3 | -13.0 | -31.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -9.3 | H | 3.0 | 40.7 | 1.0 | -49.0 | -13.0 | -36.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch, 1907.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8152 | -0.6 | V | 3.0 | 40.6 | 1.0 | -40.2 | -13.0 | -27.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7228 | 1.3 | V | 3.0 | 40.8 | 1.0 | -38.5 | -13.0 | -25.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6304 | -8.0 | V | 3.0 | 40.7 | 1.0 | -47.6 | -13.0 | -34.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8152 | -8.9 | H | 3.0 | 40.6 | 1.0 | -48.5 | -13.0 | -35.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7228 | -3.2 | H | 3.0 | 40.8 | 1.0 | -43.0 | -13.0 | -30.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6304 | -9.3 | H | 3.0 | 40.7 | 1.0 | -48.9 | -13.0 | -35.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LTE Band 17

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|----------------------------------|--|--|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| LTE Band 17 10MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 17, 10MHz BW, QPSK | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (709MHz) | | | | | | | | | |
| | | 1.4180 | -16.4 | V | 3.0 | 39.0 | 1.0 | -54.4 | -13.0 | -41.4 | |
| | | 2.1270 | -11.0 | V | 3.0 | 39.3 | 1.0 | -49.3 | -13.0 | -36.3 | |
| | | 2.8360 | -23.3 | V | 3.0 | 39.7 | 1.0 | -62.0 | -13.0 | -49.0 | |
| | | 1.4180 | -22.2 | H | 3.0 | 39.0 | 1.0 | -60.2 | -13.0 | -47.2 | |
| | | 2.1270 | -13.9 | H | 3.0 | 39.3 | 1.0 | -52.2 | -13.0 | -39.2 | |
| | | 2.8360 | -23.3 | H | 3.0 | 39.7 | 1.0 | -62.0 | -13.0 | -49.0 | |
| | | Mid Channel (710MHz) | | | | | | | | | |
| | | 1.4200 | -16.6 | V | 3.0 | 39.0 | 1.0 | -54.6 | -13.0 | -41.6 | |
| | | 2.1300 | -11.5 | V | 3.0 | 39.3 | 1.0 | -49.8 | -13.0 | -36.8 | |
| | | 2.8400 | -23.5 | V | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | |
| | | 1.4200 | -22.4 | H | 3.0 | 39.0 | 1.0 | -60.4 | -13.0 | -47.4 | |
| | 2.1300 | -14.3 | H | 3.0 | 39.3 | 1.0 | -52.6 | -13.0 | -39.6 | | |
| | 2.8400 | -23.4 | H | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | |
| | High Channel (711MHz) | | | | | | | | | | |
| | 1.4220 | -16.8 | V | 3.0 | 39.0 | 1.0 | -54.8 | -13.0 | -41.8 | | |
| | 2.1330 | -11.3 | V | 3.0 | 39.3 | 1.0 | -49.7 | -13.0 | -36.7 | | |
| | 2.8440 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | |
| | 1.4220 | -22.7 | H | 3.0 | 39.0 | 1.0 | -60.7 | -13.0 | -47.7 | | |
| | 2.1330 | -14.7 | H | 3.0 | 39.3 | 1.0 | -53.0 | -13.0 | -40.0 | | |
| | 2.8440 | -23.6 | H | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 17 10MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 17, 10MHz BW, 16QAM | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (709MHz) | | | | | | | | | |
| | | 1.4180 | -17.3 | V | 3.0 | 39.0 | 1.0 | -55.3 | -13.0 | -42.3 | |
| | | 2.1270 | -11.3 | V | 3.0 | 39.3 | 1.0 | -49.7 | -13.0 | -36.7 | |
| | | 2.8360 | -23.3 | V | 3.0 | 39.7 | 1.0 | -62.0 | -13.0 | -49.0 | |
| | | 1.4180 | -23.2 | H | 3.0 | 39.0 | 1.0 | -61.2 | -13.0 | -48.2 | |
| | | 2.1270 | -15.1 | H | 3.0 | 39.3 | 1.0 | -53.5 | -13.0 | -40.5 | |
| | | 2.8360 | -23.3 | H | 3.0 | 39.7 | 1.0 | -62.0 | -13.0 | -49.0 | |
| | | Mid Channel (710MHz) | | | | | | | | | |
| | | 1.4200 | -18.2 | V | 3.0 | 39.0 | 1.0 | -56.2 | -13.0 | -43.2 | |
| | | 2.1300 | -13.9 | V | 3.0 | 39.3 | 1.0 | -52.2 | -13.0 | -39.2 | |
| | | 2.8400 | -23.5 | V | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | |
| | | 1.4200 | -23.4 | H | 3.0 | 39.0 | 1.0 | -61.5 | -13.0 | -48.5 | |
| | 2.1300 | -16.2 | H | 3.0 | 39.3 | 1.0 | -54.6 | -13.0 | -41.6 | | |
| | 2.8400 | -23.5 | H | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | |
| | High Channel (711MHz) | | | | | | | | | | |
| | 1.4220 | -17.9 | V | 3.0 | 39.0 | 1.0 | -55.9 | -13.0 | -42.9 | | |
| | 2.1330 | -12.8 | V | 3.0 | 39.3 | 1.0 | -51.1 | -13.0 | -38.1 | | |
| | 2.8440 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | |
| | 1.4220 | -23.9 | H | 3.0 | 39.0 | 1.0 | -61.9 | -13.0 | -48.9 | | |
| | 2.1330 | -15.9 | H | 3.0 | 39.3 | 1.0 | -54.2 | -13.0 | -41.2 | | |
| | 2.8440 | -23.5 | H | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|-----------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|-------------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-----------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|---|--|--|--|--|--|--|--|--|--|---------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|-------------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-----------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|---|--|--|--|--|--|--|--|--|--|
| LTE Band 17 5MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 17, 5MHz BW, QPSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">FCC Part 27</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. 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Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (706.5MHz) | | | | | | | | | | 1.4130 | -17.1 | V | 3.0 | 39.0 | 1.0 | -55.1 | -13.0 | -42.1 | | 2.1195 | -11.0 | V | 3.0 | 39.3 | 1.0 | -49.3 | -13.0 | -36.3 | | 2.8260 | -23.3 | V | 3.0 | 39.7 | 1.0 | -62.0 | -13.0 | -49.0 | | 1.4130 | -22.8 | H | 3.0 | 39.0 | 1.0 | -60.8 | -13.0 | -47.8 | | 2.1195 | -15.0 | H | 3.0 | 39.3 | 1.0 | -53.3 | -13.0 | -40.3 | | 2.8260 | -23.4 | H | 3.0 | 39.7 | 1.0 | -62.1 | -13.0 | -49.1 | | Mid Channel (710MHz) | | | | | | | | | | 1.4200 | -17.8 | V | 3.0 | 39.0 | 1.0 | -55.8 | -13.0 | -42.8 | | 2.1300 | -13.5 | V | 3.0 | 39.3 | 1.0 | -51.8 | -13.0 | -38.8 | | 2.8400 | -23.5 | V | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | 1.4200 | -23.0 | H | 3.0 | 39.0 | 1.0 | -61.0 | -13.0 | -48.0 | | 2.1300 | -15.8 | H | 3.0 | 39.3 | 1.0 | -54.1 | -13.0 | -41.1 | | 2.8400 | -23.5 | H | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | High Channel (713.5MHz) | | | | | | | | | | 1.4270 | -17.6 | V | 3.0 | 39.0 | 1.0 | -55.6 | -13.0 | -42.6 | | 2.1405 | -12.3 | V | 3.0 | 39.3 | 1.0 | -50.6 | -13.0 | -37.6 | | 2.8540 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.4 | -13.0 | -49.4 | | 1.4270 | -23.6 | H | 3.0 | 39.0 | 1.0 | -61.7 | -13.0 | -48.7 | | 2.1405 | -15.5 | H | 3.0 | 39.3 | 1.0 | -53.8 | -13.0 | -40.8 | | 2.8540 | -23.6 | H | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (706.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.4130 | -16.0 | V | 3.0 | 39.0 | 1.0 | -54.0 | -13.0 | -41.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.1195 | -10.5 | V | 3.0 | 39.3 | 1.0 | -48.8 | -13.0 | -35.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.8260 | -23.4 | V | 3.0 | 39.7 | 1.0 | -62.1 | -13.0 | -49.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.4130 | -22.2 | H | 3.0 | 39.0 | 1.0 | -60.2 | -13.0 | -47.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.1195 | -13.4 | H | 3.0 | 39.3 | 1.0 | -51.8 | -13.0 | -38.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.8260 | -23.4 | H | 3.0 | 39.7 | 1.0 | -62.1 | -13.0 | -49.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (710MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.4200 | -16.6 | V | 3.0 | 39.0 | 1.0 | -54.6 | -13.0 | -41.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.1300 | -11.2 | V | 3.0 | 39.3 | 1.0 | -49.5 | -13.0 | -36.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.8400 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4200 | -22.3 | H | 3.0 | 39.0 | 1.0 | -60.3 | -13.0 | -47.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1300 | -14.2 | H | 3.0 | 39.3 | 1.0 | -52.6 | -13.0 | -39.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.8400 | -23.5 | H | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (713.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4270 | -16.7 | V | 3.0 | 39.0 | 1.0 | -54.8 | -13.0 | -41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1405 | -11.3 | V | 3.0 | 39.3 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.8540 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4270 | -22.6 | H | 3.0 | 39.0 | 1.0 | -60.6 | -13.0 | -47.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1405 | -14.3 | H | 3.0 | 39.3 | 1.0 | -52.6 | -13.0 | -39.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.8540 | -23.6 | H | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Band 17 5MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 17, 5MHz BW, 16QAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">FCC Part 27</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</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>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Channel (706.5MHz)</td> </tr> <tr><td>1.4130</td><td>-17.1</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr> <tr><td>2.1195</td><td>-11.0</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr> <tr><td>2.8260</td><td>-23.3</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr> <tr><td>1.4130</td><td>-22.8</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr><td>2.1195</td><td>-15.0</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr> <tr><td>2.8260</td><td>-23.4</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.1</td><td>-13.0</td><td>-49.1</td><td></td></tr> <tr> <td colspan="10">Mid Channel (710MHz)</td> </tr> <tr><td>1.4200</td><td>-17.8</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr> <tr><td>2.1300</td><td>-13.5</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr> <tr><td>2.8400</td><td>-23.5</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.2</td><td>-13.0</td><td>-49.2</td><td></td></tr> <tr><td>1.4200</td><td>-23.0</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td>2.1300</td><td>-15.8</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr> <tr><td>2.8400</td><td>-23.5</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.2</td><td>-13.0</td><td>-49.2</td><td></td></tr> <tr> <td colspan="10">High Channel (713.5MHz)</td> </tr> <tr><td>1.4270</td><td>-17.6</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr> <tr><td>2.1405</td><td>-12.3</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-50.6</td><td>-13.0</td><td>-37.6</td><td></td></tr> <tr><td>2.8540</td><td>-23.6</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.4</td><td>-13.0</td><td>-49.4</td><td></td></tr> <tr><td>1.4270</td><td>-23.6</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-61.7</td><td>-13.0</td><td>-48.7</td><td></td></tr> <tr><td>2.1405</td><td>-15.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr> <tr><td>2.8540</td><td>-23.6</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.3</td><td>-13.0</td><td>-49.3</td><td></td></tr> <tr> <td colspan="10">Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</td> </tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (706.5MHz) | | | | | | | | | | 1.4130 | -17.1 | V | 3.0 | 39.0 | 1.0 | -55.1 | -13.0 | -42.1 | | 2.1195 | -11.0 | V | 3.0 | 39.3 | 1.0 | -49.3 | -13.0 | -36.3 | | 2.8260 | -23.3 | V | 3.0 | 39.7 | 1.0 | -62.0 | -13.0 | -49.0 | | 1.4130 | -22.8 | H | 3.0 | 39.0 | 1.0 | -60.8 | -13.0 | -47.8 | | 2.1195 | -15.0 | H | 3.0 | 39.3 | 1.0 | -53.3 | -13.0 | -40.3 | | 2.8260 | -23.4 | H | 3.0 | 39.7 | 1.0 | -62.1 | -13.0 | -49.1 | | Mid Channel (710MHz) | | | | | | | | | | 1.4200 | -17.8 | V | 3.0 | 39.0 | 1.0 | -55.8 | -13.0 | -42.8 | | 2.1300 | -13.5 | V | 3.0 | 39.3 | 1.0 | -51.8 | -13.0 | -38.8 | | 2.8400 | -23.5 | V | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | 1.4200 | -23.0 | H | 3.0 | 39.0 | 1.0 | -61.0 | -13.0 | -48.0 | | 2.1300 | -15.8 | H | 3.0 | 39.3 | 1.0 | -54.1 | -13.0 | -41.1 | | 2.8400 | -23.5 | H | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | High Channel (713.5MHz) | | | | | | | | | | 1.4270 | -17.6 | V | 3.0 | 39.0 | 1.0 | -55.6 | -13.0 | -42.6 | | 2.1405 | -12.3 | V | 3.0 | 39.3 | 1.0 | -50.6 | -13.0 | -37.6 | | 2.8540 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.4 | -13.0 | -49.4 | | 1.4270 | -23.6 | H | 3.0 | 39.0 | 1.0 | -61.7 | -13.0 | -48.7 | | 2.1405 | -15.5 | H | 3.0 | 39.3 | 1.0 | -53.8 | -13.0 | -40.8 | | 2.8540 | -23.6 | H | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (706.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.4130 | -17.1 | V | 3.0 | 39.0 | 1.0 | -55.1 | -13.0 | -42.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.1195 | -11.0 | V | 3.0 | 39.3 | 1.0 | -49.3 | -13.0 | -36.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.8260 | -23.3 | V | 3.0 | 39.7 | 1.0 | -62.0 | -13.0 | -49.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.4130 | -22.8 | H | 3.0 | 39.0 | 1.0 | -60.8 | -13.0 | -47.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.1195 | -15.0 | H | 3.0 | 39.3 | 1.0 | -53.3 | -13.0 | -40.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.8260 | -23.4 | H | 3.0 | 39.7 | 1.0 | -62.1 | -13.0 | -49.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (710MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.4200 | -17.8 | V | 3.0 | 39.0 | 1.0 | -55.8 | -13.0 | -42.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.1300 | -13.5 | V | 3.0 | 39.3 | 1.0 | -51.8 | -13.0 | -38.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.8400 | -23.5 | V | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4200 | -23.0 | H | 3.0 | 39.0 | 1.0 | -61.0 | -13.0 | -48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1300 | -15.8 | H | 3.0 | 39.3 | 1.0 | -54.1 | -13.0 | -41.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.8400 | -23.5 | H | 3.0 | 39.7 | 1.0 | -62.2 | -13.0 | -49.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (713.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4270 | -17.6 | V | 3.0 | 39.0 | 1.0 | -55.6 | -13.0 | -42.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1405 | -12.3 | V | 3.0 | 39.3 | 1.0 | -50.6 | -13.0 | -37.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.8540 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.4 | -13.0 | -49.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4270 | -23.6 | H | 3.0 | 39.0 | 1.0 | -61.7 | -13.0 | -48.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1405 | -15.5 | H | 3.0 | 39.3 | 1.0 | -53.8 | -13.0 | -40.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.8540 | -23.6 | H | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LTE Band 5

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|--|--|-----------------------------|--------------|-------------------------------|-------------|---------------------------|-------------|-------------------------|-------|--|
| LTE Band 5 10MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 5, 10MHz BW,QPSK | | Chamber Chamber 2 | | Pre-amplifier AFS42 | | Filter Filter 1 | | Limit Part 22 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (829MHz) | | | | | | | | | | |
| | 1.6580 | -19.7 | V | 3.0 | 39.1 | 1.0 | -57.8 | -13.0 | -44.8 | | |
| | 2.4870 | -18.2 | V | 3.0 | 39.5 | 1.0 | -56.7 | -13.0 | -43.7 | | |
| | 3.3160 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | |
| | 1.6580 | -17.7 | H | 3.0 | 39.1 | 1.0 | -55.8 | -13.0 | -42.8 | | |
| | 2.4870 | -16.4 | H | 3.0 | 39.5 | 1.0 | -54.9 | -13.0 | -41.9 | | |
| | 3.3160 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | |
| 1.6730 | -16.8 | V | 3.0 | 39.1 | 1.0 | -55.0 | -13.0 | -42.0 | | | |
| 2.5090 | -12.3 | V | 3.0 | 39.5 | 1.0 | -50.9 | -13.0 | -37.9 | | | |
| 3.3460 | -21.8 | V | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | | |
| 1.6730 | -20.5 | H | 3.0 | 39.1 | 1.0 | -58.6 | -13.0 | -45.6 | | | |
| 2.5090 | -13.4 | H | 3.0 | 39.5 | 1.0 | -51.9 | -13.0 | -38.9 | | | |
| 3.3460 | -22.2 | H | 3.0 | 40.1 | 1.0 | -61.3 | -13.0 | -48.3 | | | |
| High Channel (844MHz) | | | | | | | | | | | |
| 1.6880 | -20.7 | V | 3.0 | 39.1 | 1.0 | -58.8 | -13.0 | -45.8 | | | |
| 2.5320 | -18.8 | V | 3.0 | 39.5 | 1.0 | -57.3 | -13.0 | -44.3 | | | |
| 3.3760 | -22.3 | V | 3.0 | 40.2 | 1.0 | -61.4 | -13.0 | -48.4 | | | |
| 1.6880 | -19.9 | H | 3.0 | 39.1 | 1.0 | -58.1 | -13.0 | -45.1 | | | |
| 2.5320 | -13.3 | H | 3.0 | 39.5 | 1.0 | -51.8 | -13.0 | -38.8 | | | |
| 3.3760 | -22.8 | H | 3.0 | 40.2 | 1.0 | -62.0 | -13.0 | -49.0 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| LTE Band 5 10MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 5, 10MHz BW,16QAM | | Chamber Chamber 2 | | Pre-amplifier AFS42 | | Filter Filter 1 | | Limit Part 22 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (829MHz) | | | | | | | | | | |
| | 1.6580 | -20.5 | V | 3.0 | 39.1 | 1.0 | -58.7 | -13.0 | -45.7 | | |
| | 2.4870 | -18.8 | V | 3.0 | 39.5 | 1.0 | -57.3 | -13.0 | -44.3 | | |
| | 3.3160 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | |
| | 1.6580 | -18.5 | H | 3.0 | 39.1 | 1.0 | -56.6 | -13.0 | -43.6 | | |
| | 2.4870 | -17.5 | H | 3.0 | 39.5 | 1.0 | -56.0 | -13.0 | -43.0 | | |
| | 3.3160 | -22.0 | H | 3.0 | 40.1 | 1.0 | -61.1 | -13.0 | -48.1 | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | |
| 1.6730 | -18.0 | V | 3.0 | 39.1 | 1.0 | -56.1 | -13.0 | -43.1 | | | |
| 2.5090 | -13.5 | V | 3.0 | 39.5 | 1.0 | -52.0 | -13.0 | -39.0 | | | |
| 3.3460 | -21.9 | V | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | | |
| 1.6730 | -21.3 | H | 3.0 | 39.1 | 1.0 | -59.4 | -13.0 | -46.4 | | | |
| 2.5090 | -14.8 | H | 3.0 | 39.5 | 1.0 | -53.3 | -13.0 | -40.3 | | | |
| 3.3460 | -22.2 | H | 3.0 | 40.1 | 1.0 | -61.3 | -13.0 | -48.3 | | | |
| High Channel (844MHz) | | | | | | | | | | | |
| 1.6880 | -21.9 | V | 3.0 | 39.1 | 1.0 | -60.0 | -13.0 | -47.0 | | | |
| 2.5320 | -20.0 | V | 3.0 | 39.5 | 1.0 | -58.6 | -13.0 | -45.6 | | | |
| 3.3760 | -22.3 | V | 3.0 | 40.2 | 1.0 | -61.5 | -13.0 | -48.5 | | | |
| 1.6880 | -20.7 | H | 3.0 | 39.1 | 1.0 | -58.9 | -13.0 | -45.9 | | | |
| 2.5320 | -15.2 | H | 3.0 | 39.5 | 1.0 | -53.7 | -13.0 | -40.7 | | | |
| 3.3760 | -22.8 | H | 3.0 | 40.2 | 1.0 | -62.0 | -13.0 | -49.0 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|-------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|
| LTE Band 5 5MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 5, 5MHz BW, QPSK | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</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">Low Channel (826.5MHz)</td></tr> <tr><td>1.6530</td><td>-20.3</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-58.5</td><td>-13.0</td><td>-45.5</td><td></td></tr> <tr><td>2.4790</td><td>-19.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-57.5</td><td>-13.0</td><td>-44.5</td><td></td></tr> <tr><td>3.3060</td><td>-21.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr><td>1.6530</td><td>-18.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-56.7</td><td>-13.0</td><td>-43.7</td><td></td></tr> <tr><td>2.4790</td><td>-17.2</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-55.7</td><td>-13.0</td><td>-42.7</td><td></td></tr> <tr><td>3.3060</td><td>-21.9</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-17.7</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr> <tr><td>2.5090</td><td>-13.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>3.3460</td><td>-21.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr><td>1.6730</td><td>-21.0</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr> <tr><td>2.5090</td><td>-15.2</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr> <tr><td>3.3460</td><td>-22.1</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.3</td><td>-13.0</td><td>-48.3</td><td></td></tr> <tr><td colspan="10">High Channel (846.5MHz)</td></tr> <tr><td>1.6930</td><td>-20.5</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr> <tr><td>2.5390</td><td>-18.7</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-57.2</td><td>-13.0</td><td>-44.2</td><td></td></tr> <tr><td>3.3860</td><td>-22.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-61.5</td><td>-13.0</td><td>-48.5</td><td></td></tr> <tr><td>1.6930</td><td>-19.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-57.7</td><td>-13.0</td><td>-44.7</td><td></td></tr> <tr><td>2.5390</td><td>-13.1</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td><td></td></tr> <tr><td>3.3860</td><td>-22.7</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-61.9</td><td>-13.0</td><td>-48.9</td><td></td></tr> </tbody> </table> <p>Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</p> | | | | | | | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (826.5MHz) | | | | | | | | | | 1.6530 | -20.3 | V | 3.0 | 39.1 | 1.0 | -58.5 | -13.0 | -45.5 | | 2.4790 | -19.0 | V | 3.0 | 39.5 | 1.0 | -57.5 | -13.0 | -44.5 | | 3.3060 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | 1.6530 | -18.6 | H | 3.0 | 39.1 | 1.0 | -56.7 | -13.0 | -43.7 | | 2.4790 | -17.2 | H | 3.0 | 39.5 | 1.0 | -55.7 | -13.0 | -42.7 | | 3.3060 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | Mid Channel (836.5MHz) | | | | | | | | | | 1.6730 | -17.7 | V | 3.0 | 39.1 | 1.0 | -55.9 | -13.0 | -42.9 | | 2.5090 | -13.0 | V | 3.0 | 39.5 | 1.0 | -51.5 | -13.0 | -38.5 | | 3.3460 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | 1.6730 | -21.0 | H | 3.0 | 39.1 | 1.0 | -59.2 | -13.0 | -46.2 | | 2.5090 | -15.2 | H | 3.0 | 39.5 | 1.0 | -53.8 | -13.0 | -40.8 | | 3.3460 | -22.1 | H | 3.0 | 40.1 | 1.0 | -61.3 | -13.0 | -48.3 | | High Channel (846.5MHz) | | | | | | | | | | 1.6930 | -20.5 | V | 3.0 | 39.1 | 1.0 | -58.6 | -13.0 | -45.6 | | 2.5390 | -18.7 | V | 3.0 | 39.6 | 1.0 | -57.2 | -13.0 | -44.2 | | 3.3860 | -22.3 | V | 3.0 | 40.2 | 1.0 | -61.5 | -13.0 | -48.5 | | 1.6930 | -19.6 | H | 3.0 | 39.1 | 1.0 | -57.7 | -13.0 | -44.7 | | 2.5390 | -13.1 | H | 3.0 | 39.6 | 1.0 | -51.6 | -13.0 | -38.6 | | 3.3860 | -22.7 | H | 3.0 | 40.2 | 1.0 | -61.9 | -13.0 | -48.9 | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (826.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6530 | -20.3 | V | 3.0 | 39.1 | 1.0 | -58.5 | -13.0 | -45.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4790 | -19.0 | V | 3.0 | 39.5 | 1.0 | -57.5 | -13.0 | -44.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3060 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6530 | -18.6 | H | 3.0 | 39.1 | 1.0 | -56.7 | -13.0 | -43.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4790 | -17.2 | H | 3.0 | 39.5 | 1.0 | -55.7 | -13.0 | -42.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3060 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6730 | -17.7 | V | 3.0 | 39.1 | 1.0 | -55.9 | -13.0 | -42.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.5090 | -13.0 | V | 3.0 | 39.5 | 1.0 | -51.5 | -13.0 | -38.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3460 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6730 | -21.0 | H | 3.0 | 39.1 | 1.0 | -59.2 | -13.0 | -46.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.5090 | -15.2 | H | 3.0 | 39.5 | 1.0 | -53.8 | -13.0 | -40.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3460 | -22.1 | H | 3.0 | 40.1 | 1.0 | -61.3 | -13.0 | -48.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (846.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6930 | -20.5 | V | 3.0 | 39.1 | 1.0 | -58.6 | -13.0 | -45.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5390 | -18.7 | V | 3.0 | 39.6 | 1.0 | -57.2 | -13.0 | -44.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3860 | -22.3 | V | 3.0 | 40.2 | 1.0 | -61.5 | -13.0 | -48.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6930 | -19.6 | H | 3.0 | 39.1 | 1.0 | -57.7 | -13.0 | -44.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5390 | -13.1 | H | 3.0 | 39.6 | 1.0 | -51.6 | -13.0 | -38.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3860 | -22.7 | H | 3.0 | 40.2 | 1.0 | -61.9 | -13.0 | -48.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Band 5 5MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 5, 5MHz BW, 16QAM | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</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">Low Channel (826.5MHz)</td></tr> <tr><td>1.6530</td><td>-21.5</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-59.6</td><td>-13.0</td><td>-46.6</td><td></td></tr> <tr><td>2.4790</td><td>-20.4</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.9</td><td>-13.0</td><td>-45.9</td><td></td></tr> <tr><td>3.3060</td><td>-21.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr><td>1.6530</td><td>-19.9</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>2.4790</td><td>-18.3</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr> <tr><td>3.3060</td><td>-21.9</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-18.9</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-57.0</td><td>-13.0</td><td>-44.0</td><td></td></tr> <tr><td>2.5090</td><td>-13.8</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> <tr><td>3.3460</td><td>-21.8</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.9</td><td>-13.0</td><td>-47.9</td><td></td></tr> <tr><td>1.6730</td><td>-22.1</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-60.3</td><td>-13.0</td><td>-47.3</td><td></td></tr> <tr><td>2.5090</td><td>-16.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr> <tr><td>3.3460</td><td>-22.2</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.3</td><td>-13.0</td><td>-48.3</td><td></td></tr> <tr><td colspan="10">High Channel (846.5MHz)</td></tr> <tr><td>1.6930</td><td>-21.8</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr><td>2.5390</td><td>-19.8</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-58.4</td><td>-13.0</td><td>-45.4</td><td></td></tr> <tr><td>3.3860</td><td>-22.2</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-61.4</td><td>-13.0</td><td>-48.4</td><td></td></tr> <tr><td>1.6930</td><td>-20.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-58.7</td><td>-13.0</td><td>-45.7</td><td></td></tr> <tr><td>2.5390</td><td>-14.3</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr> <tr><td>3.3860</td><td>-22.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-61.9</td><td>-13.0</td><td>-48.9</td><td></td></tr> </tbody> </table> <p>Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</p> | | | | | | | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (826.5MHz) | | | | | | | | | | 1.6530 | -21.5 | V | 3.0 | 39.1 | 1.0 | -59.6 | -13.0 | -46.6 | | 2.4790 | -20.4 | V | 3.0 | 39.5 | 1.0 | -58.9 | -13.0 | -45.9 | | 3.3060 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | 1.6530 | -19.9 | H | 3.0 | 39.1 | 1.0 | -58.0 | -13.0 | -45.0 | | 2.4790 | -18.3 | H | 3.0 | 39.5 | 1.0 | -56.8 | -13.0 | -43.8 | | 3.3060 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | Mid Channel (836.5MHz) | | | | | | | | | | 1.6730 | -18.9 | V | 3.0 | 39.1 | 1.0 | -57.0 | -13.0 | -44.0 | | 2.5090 | -13.8 | V | 3.0 | 39.5 | 1.0 | -52.3 | -13.0 | -39.3 | | 3.3460 | -21.8 | V | 3.0 | 40.1 | 1.0 | -60.9 | -13.0 | -47.9 | | 1.6730 | -22.1 | H | 3.0 | 39.1 | 1.0 | -60.3 | -13.0 | -47.3 | | 2.5090 | -16.4 | H | 3.0 | 39.5 | 1.0 | -54.9 | -13.0 | -41.9 | | 3.3460 | -22.2 | H | 3.0 | 40.1 | 1.0 | -61.3 | -13.0 | -48.3 | | High Channel (846.5MHz) | | | | | | | | | | 1.6930 | -21.8 | V | 3.0 | 39.1 | 1.0 | -60.0 | -13.0 | -47.0 | | 2.5390 | -19.8 | V | 3.0 | 39.6 | 1.0 | -58.4 | -13.0 | -45.4 | | 3.3860 | -22.2 | V | 3.0 | 40.2 | 1.0 | -61.4 | -13.0 | -48.4 | | 1.6930 | -20.6 | H | 3.0 | 39.1 | 1.0 | -58.7 | -13.0 | -45.7 | | 2.5390 | -14.3 | H | 3.0 | 39.6 | 1.0 | -52.9 | -13.0 | -39.9 | | 3.3860 | -22.8 | H | 3.0 | 40.2 | 1.0 | -61.9 | -13.0 | -48.9 | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (826.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6530 | -21.5 | V | 3.0 | 39.1 | 1.0 | -59.6 | -13.0 | -46.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4790 | -20.4 | V | 3.0 | 39.5 | 1.0 | -58.9 | -13.0 | -45.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3060 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6530 | -19.9 | H | 3.0 | 39.1 | 1.0 | -58.0 | -13.0 | -45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4790 | -18.3 | H | 3.0 | 39.5 | 1.0 | -56.8 | -13.0 | -43.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3060 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6730 | -18.9 | V | 3.0 | 39.1 | 1.0 | -57.0 | -13.0 | -44.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.5090 | -13.8 | V | 3.0 | 39.5 | 1.0 | -52.3 | -13.0 | -39.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3460 | -21.8 | V | 3.0 | 40.1 | 1.0 | -60.9 | -13.0 | -47.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6730 | -22.1 | H | 3.0 | 39.1 | 1.0 | -60.3 | -13.0 | -47.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.5090 | -16.4 | H | 3.0 | 39.5 | 1.0 | -54.9 | -13.0 | -41.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3460 | -22.2 | H | 3.0 | 40.1 | 1.0 | -61.3 | -13.0 | -48.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (846.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6930 | -21.8 | V | 3.0 | 39.1 | 1.0 | -60.0 | -13.0 | -47.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5390 | -19.8 | V | 3.0 | 39.6 | 1.0 | -58.4 | -13.0 | -45.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3860 | -22.2 | V | 3.0 | 40.2 | 1.0 | -61.4 | -13.0 | -48.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6930 | -20.6 | H | 3.0 | 39.1 | 1.0 | -58.7 | -13.0 | -45.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5390 | -14.3 | H | 3.0 | 39.6 | 1.0 | -52.9 | -13.0 | -39.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3860 | -22.8 | H | 3.0 | 40.2 | 1.0 | -61.9 | -13.0 | -48.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--------------------------------|---|--|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| LTE Band 5 3MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 5, 3MHz BW,QPSK | | | | | | | | | | |
| | Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: Part 22 | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (825.5MHz) | | | | | | | | | |
| | | 1.6510 | -20.0 | V | 3.0 | 39.1 | 1.0 | -58.1 | -13.0 | -45.1 | |
| | | 2.4675 | -18.4 | V | 3.0 | 39.5 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | | 3.3020 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | |
| | | 1.6510 | -17.8 | H | 3.0 | 39.1 | 1.0 | -55.9 | -13.0 | -42.9 | |
| | | 2.4675 | -16.5 | H | 3.0 | 39.5 | 1.0 | -55.0 | -13.0 | -42.0 | |
| | | 3.3020 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | |
| | | Mid Channel (836.5MHz) | | | | | | | | | |
| | | 1.6730 | -17.1 | V | 3.0 | 39.1 | 1.0 | -55.2 | -13.0 | -42.2 | |
| | | 2.5090 | -12.2 | V | 3.0 | 39.5 | 1.0 | -50.7 | -13.0 | -37.7 | |
| | | 3.3460 | -21.8 | V | 3.0 | 40.1 | 1.0 | -60.9 | -13.0 | -47.9 | |
| | | 1.6730 | -20.6 | H | 3.0 | 39.1 | 1.0 | -58.7 | -13.0 | -45.7 | |
| | | 2.5090 | -14.2 | H | 3.0 | 39.5 | 1.0 | -52.7 | -13.0 | -39.7 | |
| | | 3.3460 | -22.1 | H | 3.0 | 40.1 | 1.0 | -61.2 | -13.0 | -48.2 | |
| | | High Channel (847.5MHz) | | | | | | | | | |
| | | 1.6950 | -20.2 | V | 3.0 | 39.1 | 1.0 | -58.4 | -13.0 | -45.4 | |
| | | 2.5425 | -18.3 | V | 3.0 | 39.6 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | | 3.3900 | -22.2 | V | 3.0 | 40.2 | 1.0 | -61.4 | -13.0 | -48.4 | |
| | | 1.6950 | -19.6 | H | 3.0 | 39.1 | 1.0 | -57.8 | -13.0 | -44.8 | |
| | | 2.5425 | -12.9 | H | 3.0 | 39.6 | 1.0 | -51.5 | -13.0 | -38.5 | |
| | | 3.3900 | -22.6 | H | 3.0 | 40.2 | 1.0 | -61.8 | -13.0 | -48.8 | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 5 3MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX, LTE BAND 5, 3MHz BW,16QAM | | | | | | | | | | |
| | Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: Part 22 | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (825.5MHz) | | | | | | | | | |
| | | 1.6510 | -20.9 | V | 3.0 | 39.1 | 1.0 | -59.0 | -13.0 | -46.0 | |
| | | 2.4675 | -19.2 | V | 3.0 | 39.5 | 1.0 | -57.7 | -13.0 | -44.7 | |
| | | 3.3020 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | |
| | | 1.6510 | -18.6 | H | 3.0 | 39.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | | 2.4675 | -18.1 | H | 3.0 | 39.5 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | | 3.3020 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | |
| | | Mid Channel (836.5MHz) | | | | | | | | | |
| | | 1.6730 | -17.9 | V | 3.0 | 39.1 | 1.0 | -56.0 | -13.0 | -43.0 | |
| | | 2.5090 | -12.9 | V | 3.0 | 39.5 | 1.0 | -51.5 | -13.0 | -38.5 | |
| | | 3.3460 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | |
| | | 1.6730 | -21.5 | H | 3.0 | 39.1 | 1.0 | -59.6 | -13.0 | -46.6 | |
| | | 2.5090 | -15.3 | H | 3.0 | 39.5 | 1.0 | -53.8 | -13.0 | -40.8 | |
| | | 3.3460 | -22.1 | H | 3.0 | 40.1 | 1.0 | -61.2 | -13.0 | -48.2 | |
| | | High Channel (847.5MHz) | | | | | | | | | |
| | | 1.6950 | -21.1 | V | 3.0 | 39.1 | 1.0 | -59.3 | -13.0 | -46.3 | |
| | | 2.5425 | -19.5 | V | 3.0 | 39.6 | 1.0 | -58.0 | -13.0 | -45.0 | |
| | | 3.3900 | -22.3 | V | 3.0 | 40.2 | 1.0 | -61.5 | -13.0 | -48.5 | |
| | | 1.6950 | -20.6 | H | 3.0 | 39.1 | 1.0 | -58.7 | -13.0 | -45.7 | |
| | | 2.5425 | -13.8 | H | 3.0 | 39.6 | 1.0 | -52.4 | -13.0 | -39.4 | |
| | | 3.3900 | -22.7 | H | 3.0 | 40.2 | 1.0 | -61.9 | -13.0 | -48.9 | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|----------------------------------|--|--|-------------------|------------------|-----------------|---------------|---------------|--------------|--------------|--------------|--------------|
| LTE Band 5 1.4MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX LTE BAND 5, 1.4MHz BW,QPSK | | | | | | | | | | |
| | Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: Part 22 | | | | | | | | | | |
| | | f | SG reading | Ant. Pol. | Distance | Preamp | Filter | EIRP | Limit | Delta | Notes |
| | | GHz | (dBm) | (H/V) | (m) | (dB) | (dB) | (dBm) | (dBm) | (dB) | |
| | | Low Channel (824.7MHz) | | | | | | | | | |
| | | 1.6494 | -19.8 | V | 3.0 | 39.1 | 1.0 | -57.9 | -13.0 | -44.9 | |
| | | 2.4741 | -18.6 | V | 3.0 | 39.5 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | | 3.2988 | -21.8 | V | 3.0 | 40.1 | 1.0 | -60.9 | -13.0 | -47.9 | |
| | | 1.6494 | -17.9 | H | 3.0 | 39.1 | 1.0 | -56.0 | -13.0 | -43.0 | |
| | | 2.4741 | -16.7 | H | 3.0 | 39.5 | 1.0 | -55.2 | -13.0 | -42.2 | |
| | | 3.2988 | -22.0 | H | 3.0 | 40.1 | 1.0 | -61.1 | -13.0 | -48.1 | |
| | | Mid Channel (836.5MHz) | | | | | | | | | |
| | | 1.6730 | -17.2 | V | 3.0 | 39.1 | 1.0 | -55.3 | -13.0 | -42.3 | |
| | | 2.5090 | -12.4 | V | 3.0 | 39.5 | 1.0 | -50.9 | -13.0 | -37.9 | |
| | | 3.3460 | -21.9 | V | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | |
| | | 1.6730 | -20.7 | H | 3.0 | 39.1 | 1.0 | -58.8 | -13.0 | -45.8 | |
| | | 2.5090 | -14.4 | H | 3.0 | 39.5 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | | 3.3460 | -22.1 | H | 3.0 | 40.1 | 1.0 | -61.2 | -13.0 | -48.2 | |
| | | High Channel (848.3MHz) | | | | | | | | | |
| | | 1.6966 | -20.0 | V | 3.0 | 39.1 | 1.0 | -58.2 | -13.0 | -45.2 | |
| | | 2.5449 | -18.3 | V | 3.0 | 39.6 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | | 3.3932 | -22.2 | V | 3.0 | 40.2 | 1.0 | -61.4 | -13.0 | -48.4 | |
| | | 1.6966 | -19.2 | H | 3.0 | 39.1 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | | 2.5449 | -12.7 | H | 3.0 | 39.6 | 1.0 | -51.3 | -13.0 | -38.3 | |
| | 3.3932 | -22.6 | H | 3.0 | 40.2 | 1.0 | -61.8 | -13.0 | -48.8 | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 5 1.4MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-05-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: TX LTE BAND 5, 1.4MHz BW,16QAM | | | | | | | | | | |
| | Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: Part 22 | | | | | | | | | | |
| | | f | SG reading | Ant. Pol. | Distance | Preamp | Filter | EIRP | Limit | Delta | Notes |
| | | GHz | (dBm) | (H/V) | (m) | (dB) | (dB) | (dBm) | (dBm) | (dB) | |
| | | Low Channel (824.7MHz) | | | | | | | | | |
| | | 1.6494 | -21.0 | V | 3.0 | 39.1 | 1.0 | -59.1 | -13.0 | -46.1 | |
| | | 2.4741 | -19.6 | V | 3.0 | 39.5 | 1.0 | -58.1 | -13.0 | -45.1 | |
| | | 3.2988 | -21.8 | V | 3.0 | 40.1 | 1.0 | -60.9 | -13.0 | -47.9 | |
| | | 1.6494 | -19.0 | H | 3.0 | 39.1 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | | 2.4741 | -17.9 | H | 3.0 | 39.5 | 1.0 | -56.4 | -13.0 | -43.4 | |
| | | 3.2988 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | |
| | | Mid Channel (836.5MHz) | | | | | | | | | |
| | | 1.6730 | -18.4 | V | 3.0 | 39.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | | 2.5090 | -13.3 | V | 3.0 | 39.5 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | | 3.3460 | -21.8 | V | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | |
| | | 1.6730 | -21.8 | H | 3.0 | 39.1 | 1.0 | -59.9 | -13.0 | -46.9 | |
| | | 2.5090 | -15.5 | H | 3.0 | 39.5 | 1.0 | -54.1 | -13.0 | -41.1 | |
| | | 3.3460 | -22.1 | H | 3.0 | 40.1 | 1.0 | -61.2 | -13.0 | -48.2 | |
| | | High Channel (848.3MHz) | | | | | | | | | |
| | | 1.6966 | -21.1 | V | 3.0 | 39.1 | 1.0 | -59.3 | -13.0 | -46.3 | |
| | | 2.5449 | -19.2 | V | 3.0 | 39.6 | 1.0 | -57.8 | -13.0 | -44.8 | |
| | | 3.3932 | -22.2 | V | 3.0 | 40.2 | 1.0 | -61.4 | -13.0 | -48.4 | |
| | | 1.6966 | -20.3 | H | 3.0 | 39.1 | 1.0 | -58.4 | -13.0 | -45.4 | |
| | | 2.5449 | -13.9 | H | 3.0 | 39.6 | 1.0 | -52.5 | -13.0 | -39.5 | |
| | 3.3932 | -22.6 | H | 3.0 | 40.2 | 1.0 | -61.8 | -13.0 | -48.8 | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

LTE Band 4

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|--|--|----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|--|
| LTE Band 4 20MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 20MHz BW, QPSK | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | |
| | f GHz | SGreading (dBm) | Ant. Pol. (HV) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (1720MHz) | | | | | | | | | | |
| | 3.4400 | -16.6 | V | 3.0 | 40.2 | 1.0 | -55.8 | -13.0 | -42.8 | | |
| | 5.1600 | -16.0 | V | 3.0 | 40.9 | 1.0 | -55.9 | -13.0 | -42.9 | | |
| | 6.8800 | -8.4 | V | 3.0 | 41.0 | 1.0 | -48.4 | -13.0 | -35.4 | | |
| | 3.4400 | -16.4 | H | 3.0 | 40.2 | 1.0 | -55.6 | -13.0 | -42.6 | | |
| | 5.1600 | -12.0 | H | 3.0 | 40.9 | 1.0 | -51.9 | -13.0 | -38.9 | | |
| | 6.8800 | 1.3 | H | 3.0 | 41.0 | 1.0 | -38.7 | -13.0 | -25.7 | | |
| | Mid Channel (1732.5MHz) | | | | | | | | | | |
| | 3.4650 | -17.5 | V | 3.0 | 40.3 | 1.0 | -56.7 | -13.0 | -43.7 | | |
| | 5.1975 | -16.4 | V | 3.0 | 40.9 | 1.0 | -56.3 | -13.0 | -43.3 | | |
| | 6.9300 | -7.7 | V | 3.0 | 41.0 | 1.0 | -47.7 | -13.0 | -34.7 | | |
| | 3.4650 | -16.1 | H | 3.0 | 40.3 | 1.0 | -55.4 | -13.0 | -42.4 | | |
| 5.1975 | -13.8 | H | 3.0 | 40.9 | 1.0 | -53.7 | -13.0 | -40.7 | | | |
| 6.9300 | 1.1 | H | 3.0 | 41.0 | 1.0 | -38.9 | -13.0 | -25.9 | | | |
| High Channel (1745MHz) | | | | | | | | | | | |
| 3.4900 | -16.6 | V | 3.0 | 40.3 | 1.0 | -55.9 | -13.0 | -42.9 | | | |
| 5.2350 | -16.3 | V | 3.0 | 40.9 | 1.0 | -56.1 | -13.0 | -43.1 | | | |
| 6.9800 | -7.1 | V | 3.0 | 41.0 | 1.0 | -47.1 | -13.0 | -34.1 | | | |
| 3.4900 | -14.6 | H | 3.0 | 40.3 | 1.0 | -53.9 | -13.0 | -40.9 | | | |
| 5.2350 | -11.9 | H | 3.0 | 40.9 | 1.0 | -51.8 | -13.0 | -38.8 | | | |
| 6.9800 | 2.4 | H | 3.0 | 41.0 | 1.0 | -37.6 | -13.0 | -24.6 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| LTE Band 4 20MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 20MHz BW, 16QAM | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | |
| | f GHz | SGreading (dBm) | Ant. Pol. (HV) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (1720MHz) | | | | | | | | | | |
| | 3.4400 | -17.8 | V | 3.0 | 40.2 | 1.0 | -57.1 | -13.0 | -44.1 | | |
| | 5.1600 | -17.3 | V | 3.0 | 40.9 | 1.0 | -57.2 | -13.0 | -44.2 | | |
| | 6.8800 | -10.2 | V | 3.0 | 41.0 | 1.0 | -50.2 | -13.0 | -37.2 | | |
| | 3.4400 | -17.8 | H | 3.0 | 40.2 | 1.0 | -57.1 | -13.0 | -44.1 | | |
| | 5.1600 | -12.9 | H | 3.0 | 40.9 | 1.0 | -52.8 | -13.0 | -39.8 | | |
| | 6.8800 | -0.6 | H | 3.0 | 41.0 | 1.0 | -40.6 | -13.0 | -27.6 | | |
| | Mid Channel (1732.5MHz) | | | | | | | | | | |
| | 3.4650 | -18.1 | V | 3.0 | 40.3 | 1.0 | -57.4 | -13.0 | -44.4 | | |
| | 5.1975 | -17.3 | V | 3.0 | 40.9 | 1.0 | -57.2 | -13.0 | -44.2 | | |
| | 6.9300 | -8.9 | V | 3.0 | 41.0 | 1.0 | -48.9 | -13.0 | -35.9 | | |
| | 3.4650 | -17.5 | H | 3.0 | 40.3 | 1.0 | -56.7 | -13.0 | -43.7 | | |
| 5.1975 | -14.5 | H | 3.0 | 40.9 | 1.0 | -54.4 | -13.0 | -41.4 | | | |
| 6.9300 | -0.3 | H | 3.0 | 41.0 | 1.0 | -40.3 | -13.0 | -27.3 | | | |
| High Channel (1745MHz) | | | | | | | | | | | |
| 3.4900 | -17.6 | V | 3.0 | 40.3 | 1.0 | -56.9 | -13.0 | -43.9 | | | |
| 5.2350 | -16.6 | V | 3.0 | 40.9 | 1.0 | -56.5 | -13.0 | -43.5 | | | |
| 6.9800 | -8.1 | V | 3.0 | 41.0 | 1.0 | -48.2 | -13.0 | -35.2 | | | |
| 3.4900 | -15.8 | H | 3.0 | 40.3 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| 5.2350 | -12.6 | H | 3.0 | 40.9 | 1.0 | -52.5 | -13.0 | -39.5 | | | |
| 6.9800 | 1.1 | H | 3.0 | 41.0 | 1.0 | -38.9 | -13.0 | -25.9 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|---|--|--|----------------|--------------|-------------|-------------|-------------|-------------|------------|-------|--|--|
| LTE Band 4 15MHz QPSK | Company: Samsung | | | | | | | | | | | |
| | Project #: 16K22867 | | | | | | | | | | | |
| | Date: 03-04-16 | | | | | | | | | | | |
| | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | Configuration: EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | | | |
| | Mode: TX, LTE BAND 4, 15MHz BW, QPSK | | | | | | | | | | | |
| | Chamber | | Pre-amplifier | | Filter | | Limit | | | | | |
| | Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 27 | | | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (HV) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| | Low Channel (1717.5MHz) | | | | | | | | | | | |
| | 3.4350 | -16.3 | V | 3.0 | 40.2 | 1.0 | -55.5 | -13.0 | -42.5 | | | |
| | 5.1525 | -16.7 | V | 3.0 | 40.9 | 1.0 | -56.6 | -13.0 | -43.6 | | | |
| | 6.8700 | -7.0 | V | 3.0 | 41.0 | 1.0 | -47.0 | -13.0 | -34.0 | | | |
| | 3.4350 | -14.8 | H | 3.0 | 40.2 | 1.0 | -54.1 | -13.0 | -41.1 | | | |
| | 5.1525 | -13.6 | H | 3.0 | 40.9 | 1.0 | -53.5 | -13.0 | -40.5 | | | |
| | 6.8700 | 1.2 | H | 3.0 | 41.0 | 1.0 | -38.8 | -13.0 | -25.8 | | | |
| | Mid Channel (1732.5MHz) | | | | | | | | | | | |
| | 3.4650 | -18.5 | V | 3.0 | 40.3 | 1.0 | -57.7 | -13.0 | -44.7 | | | |
| | 5.1975 | -17.3 | V | 3.0 | 40.9 | 1.0 | -57.2 | -13.0 | -44.2 | | | |
| | 6.9300 | -7.2 | V | 3.0 | 41.0 | 1.0 | -47.2 | -13.0 | -34.2 | | | |
| 3.4650 | -16.9 | H | 3.0 | 40.3 | 1.0 | -56.2 | -13.0 | -43.2 | | | | |
| 5.1975 | -14.0 | H | 3.0 | 40.9 | 1.0 | -53.9 | -13.0 | -40.9 | | | | |
| 6.9300 | 1.0 | H | 3.0 | 41.0 | 1.0 | -39.0 | -13.0 | -26.0 | | | | |
| High Channel (1747.5MHz) | | | | | | | | | | | | |
| 3.4950 | -16.4 | V | 3.0 | 40.3 | 1.0 | -55.7 | -13.0 | -42.7 | | | | |
| 5.2425 | -16.8 | V | 3.0 | 40.9 | 1.0 | -56.7 | -13.0 | -43.7 | | | | |
| 6.9900 | -8.4 | V | 3.0 | 41.0 | 1.0 | -48.5 | -13.0 | -35.5 | | | | |
| 3.4950 | -13.5 | H | 3.0 | 40.3 | 1.0 | -52.7 | -13.0 | -39.7 | | | | |
| 5.2425 | -11.8 | H | 3.0 | 40.9 | 1.0 | -51.7 | -13.0 | -38.7 | | | | |
| 6.9900 | 0.6 | H | 3.0 | 41.0 | 1.0 | -39.5 | -13.0 | -26.5 | | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | |
| LTE Band 4 15MHz 16QAM | Company: Samsung | | | | | | | | | | | |
| | Project #: 16K22867 | | | | | | | | | | | |
| | Date: 03-04-16 | | | | | | | | | | | |
| | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | Configuration: EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | | | |
| | Mode: TX, LTE BAND 4, 15MHz BW, 16QAM | | | | | | | | | | | |
| | Chamber | | Pre-amplifier | | Filter | | Limit | | | | | |
| | Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 27 | | | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (HV) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| | Low Channel (1717.5MHz) | | | | | | | | | | | |
| | 3.4350 | -17.3 | V | 3.0 | 40.2 | 1.0 | -56.5 | -13.0 | -43.5 | | | |
| | 5.1525 | -17.1 | V | 3.0 | 40.9 | 1.0 | -57.0 | -13.0 | -44.0 | | | |
| | 6.8700 | -8.3 | V | 3.0 | 41.0 | 1.0 | -48.3 | -13.0 | -35.3 | | | |
| | 3.4350 | -16.0 | H | 3.0 | 40.2 | 1.0 | -55.2 | -13.0 | -42.2 | | | |
| | 5.1525 | -14.4 | H | 3.0 | 40.9 | 1.0 | -54.3 | -13.0 | -41.3 | | | |
| | 6.8700 | -0.4 | H | 3.0 | 41.0 | 1.0 | -40.4 | -13.0 | -27.4 | | | |
| | Mid Channel (1732.5MHz) | | | | | | | | | | | |
| | 3.4650 | -17.3 | V | 3.0 | 40.3 | 1.0 | -56.5 | -13.0 | -43.5 | | | |
| | 5.1975 | -16.8 | V | 3.0 | 40.9 | 1.0 | -56.7 | -13.0 | -43.7 | | | |
| | 6.9300 | -8.9 | V | 3.0 | 41.0 | 1.0 | -48.9 | -13.0 | -35.9 | | | |
| 3.4650 | -18.1 | H | 3.0 | 40.3 | 1.0 | -57.3 | -13.0 | -44.3 | | | | |
| 5.1975 | -15.0 | H | 3.0 | 40.9 | 1.0 | -54.9 | -13.0 | -41.9 | | | | |
| 6.9300 | -1.3 | H | 3.0 | 41.0 | 1.0 | -41.3 | -13.0 | -28.3 | | | | |
| High Channel (1747.5MHz) | | | | | | | | | | | | |
| 3.4950 | -17.6 | V | 3.0 | 40.3 | 1.0 | -56.9 | -13.0 | -43.9 | | | | |
| 5.2425 | -17.8 | V | 3.0 | 40.9 | 1.0 | -57.6 | -13.0 | -44.6 | | | | |
| 6.9900 | -10.1 | V | 3.0 | 41.0 | 1.0 | -50.1 | -13.0 | -37.1 | | | | |
| 3.4950 | -15.1 | H | 3.0 | 40.3 | 1.0 | -54.4 | -13.0 | -41.4 | | | | |
| 5.2425 | -13.2 | H | 3.0 | 40.9 | 1.0 | -53.1 | -13.0 | -40.1 | | | | |
| 6.9900 | -1.4 | H | 3.0 | 41.0 | 1.0 | -41.4 | -13.0 | -28.4 | | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|---------------------------------|--|---|-------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| LTE Band 4 10MHz QPSK | Company: Samsung | | | | | | | | | | | |
| | Project #: 16K22867 | | | | | | | | | | | |
| | Date: 03-04-16 | | | | | | | | | | | |
| | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | Configuration: EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | | | |
| | Mode: TX, LTE BAND 4, 10MHz BW, QPSK | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1715MHz) | | | | | | | | | |
| | | | 3.4300 | -16.2 | V | 3.0 | 40.2 | 1.0 | -55.4 | -13.0 | -42.4 | |
| | | | 5.1450 | -16.9 | V | 3.0 | 40.9 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | | | 6.8600 | -6.4 | V | 3.0 | 41.0 | 1.0 | -46.4 | -13.0 | -33.4 | |
| | | | 3.4300 | -13.5 | H | 3.0 | 40.2 | 1.0 | -52.8 | -13.0 | -39.8 | |
| | | | 5.1450 | -14.6 | H | 3.0 | 40.9 | 1.0 | -54.5 | -13.0 | -41.5 | |
| | | | 6.8600 | 2.3 | H | 3.0 | 41.0 | 1.0 | -37.7 | -13.0 | -24.7 | |
| | | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | | 3.4650 | -17.2 | V | 3.0 | 40.3 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | | | 5.1975 | -17.0 | V | 3.0 | 40.9 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | | | 6.9300 | -7.7 | V | 3.0 | 41.0 | 1.0 | -47.7 | -13.0 | -34.7 | |
| | | | 3.4650 | -17.8 | H | 3.0 | 40.3 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | | | 5.1975 | -14.4 | H | 3.0 | 40.9 | 1.0 | -54.2 | -13.0 | -41.2 | |
| | | | 6.9300 | 0.8 | H | 3.0 | 41.0 | 1.0 | -39.2 | -13.0 | -26.2 | |
| | | | High Channel (1750MHz) | | | | | | | | | |
| | | | 3.5000 | -16.6 | V | 3.0 | 40.3 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | | 5.2500 | -18.0 | V | 3.0 | 40.9 | 1.0 | -57.8 | -13.0 | -44.8 | |
| | | 7.0000 | -7.7 | V | 3.0 | 41.0 | 1.0 | -47.7 | -13.0 | -34.7 | | |
| | | 3.5000 | -14.5 | H | 3.0 | 40.3 | 1.0 | -53.8 | -13.0 | -40.8 | | |
| | | 5.2500 | -11.0 | H | 3.0 | 40.9 | 1.0 | -50.9 | -13.0 | -37.9 | | |
| | | 7.0000 | 1.2 | H | 3.0 | 41.0 | 1.0 | -38.8 | -13.0 | -25.8 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 4 10MHz 16QAM | Company: Samsung | | | | | | | | | | | |
| | Project #: 16K22867 | | | | | | | | | | | |
| | Date: 03-04-16 | | | | | | | | | | | |
| | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | Configuration: EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | | | |
| | Mode: TX, LTE BAND 4, 10MHz BW, 16QAM | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1715MHz) | | | | | | | | | |
| | | | 3.4300 | -17.4 | V | 3.0 | 40.2 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | | | 5.1450 | -17.2 | V | 3.0 | 40.9 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | | | 6.8600 | -7.7 | V | 3.0 | 41.0 | 1.0 | -47.6 | -13.0 | -34.6 | |
| | | | 3.4300 | -14.9 | H | 3.0 | 40.2 | 1.0 | -54.2 | -13.0 | -41.2 | |
| | | | 5.1450 | -15.3 | H | 3.0 | 40.9 | 1.0 | -55.2 | -13.0 | -42.2 | |
| | | | 6.8600 | 0.7 | H | 3.0 | 41.0 | 1.0 | -39.2 | -13.0 | -26.2 | |
| | | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | | 3.4650 | -18.5 | V | 3.0 | 40.3 | 1.0 | -57.8 | -13.0 | -44.8 | |
| | | | 5.1975 | -17.5 | V | 3.0 | 40.9 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | | | 6.9300 | -9.4 | V | 3.0 | 41.0 | 1.0 | -49.4 | -13.0 | -36.4 | |
| | | | 3.4650 | -18.4 | H | 3.0 | 40.3 | 1.0 | -57.7 | -13.0 | -44.7 | |
| | | | 5.1975 | -15.1 | H | 3.0 | 40.9 | 1.0 | -55.0 | -13.0 | -42.0 | |
| | | | 6.9300 | -0.6 | H | 3.0 | 41.0 | 1.0 | -40.6 | -13.0 | -27.6 | |
| | | | High Channel (1750MHz) | | | | | | | | | |
| | | | 3.5000 | -17.9 | V | 3.0 | 40.3 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | | | 5.2500 | -17.4 | V | 3.0 | 40.9 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | 7.0000 | -9.1 | V | 3.0 | 41.0 | 1.0 | -49.1 | -13.0 | -36.1 | | |
| | | 3.5000 | -15.3 | H | 3.0 | 40.3 | 1.0 | -54.6 | -13.0 | -41.6 | | |
| | | 5.2500 | -12.5 | H | 3.0 | 40.9 | 1.0 | -52.4 | -13.0 | -39.4 | | |
| | | 7.0000 | -0.1 | H | 3.0 | 41.0 | 1.0 | -40.1 | -13.0 | -27.1 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--------------------------------|--|--|-----------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| LTE Band 4 5MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 5MHz BW, QPSK | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | |
| | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (1712.5MHz) | | | | | | | | | |
| | | 3.4250 | -17.0 | V | 3.0 | 40.2 | 1.0 | -56.2 | -13.0 | -43.2 | |
| | | 5.1375 | -17.7 | V | 3.0 | 40.9 | 1.0 | -57.6 | -13.0 | -44.6 | |
| | | 6.8500 | -6.8 | V | 3.0 | 41.0 | 1.0 | -46.8 | -13.0 | -33.8 | |
| | | 3.4250 | -14.8 | H | 3.0 | 40.2 | 1.0 | -54.0 | -13.0 | -41.0 | |
| | | 5.1375 | -13.0 | H | 3.0 | 40.9 | 1.0 | -52.9 | -13.0 | -39.9 | |
| | | 6.8500 | 1.2 | H | 3.0 | 41.0 | 1.0 | -38.7 | -13.0 | -25.7 | |
| | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | 3.4650 | -18.7 | V | 3.0 | 40.3 | 1.0 | -58.0 | -13.0 | -45.0 | |
| | | 5.1975 | -17.8 | V | 3.0 | 40.9 | 1.0 | -57.7 | -13.0 | -44.7 | |
| | | 6.9300 | -9.3 | V | 3.0 | 41.0 | 1.0 | -49.3 | -13.0 | -36.3 | |
| | | 3.4650 | -16.4 | H | 3.0 | 40.3 | 1.0 | -55.7 | -13.0 | -42.7 | |
| | 5.1975 | -13.9 | H | 3.0 | 40.9 | 1.0 | -53.8 | -13.0 | -40.8 | | |
| | 6.9300 | 1.3 | H | 3.0 | 41.0 | 1.0 | -38.7 | -13.0 | -25.7 | | |
| | High Channel (1752.5MHz) | | | | | | | | | | |
| | 3.5050 | -15.6 | V | 3.0 | 40.3 | 1.0 | -54.8 | -13.0 | -41.8 | | |
| | 5.2575 | -16.5 | V | 3.0 | 40.9 | 1.0 | -56.4 | -13.0 | -43.4 | | |
| | 7.0100 | -8.4 | V | 3.0 | 41.0 | 1.0 | -48.4 | -13.0 | -35.4 | | |
| | 3.5050 | -14.5 | H | 3.0 | 40.3 | 1.0 | -53.8 | -13.0 | -40.8 | | |
| | 5.2575 | -10.7 | H | 3.0 | 40.9 | 1.0 | -50.6 | -13.0 | -37.6 | | |
| | 7.0100 | 0.6 | H | 3.0 | 41.0 | 1.0 | -39.5 | -13.0 | -26.5 | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 4 5MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 7, 5MHz BW, 16QAM | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | |
| | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (1712.5MHz) | | | | | | | | | |
| | | 3.4250 | -18.1 | V | 3.0 | 40.2 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | | 5.1375 | -18.0 | V | 3.0 | 40.9 | 1.0 | -57.9 | -13.0 | -44.9 | |
| | | 6.8500 | -8.3 | V | 3.0 | 41.0 | 1.0 | -48.2 | -13.0 | -35.2 | |
| | | 3.4250 | -16.4 | H | 3.0 | 40.2 | 1.0 | -55.6 | -13.0 | -42.6 | |
| | | 5.1375 | -14.1 | H | 3.0 | 40.9 | 1.0 | -54.0 | -13.0 | -41.0 | |
| | | 6.8500 | -0.2 | H | 3.0 | 41.0 | 1.0 | -40.2 | -13.0 | -27.2 | |
| | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | 3.4650 | -19.6 | V | 3.0 | 40.3 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | | 5.1975 | -18.4 | V | 3.0 | 40.9 | 1.0 | -58.3 | -13.0 | -45.3 | |
| | | 6.9300 | -10.7 | V | 3.0 | 41.0 | 1.0 | -50.7 | -13.0 | -37.7 | |
| | | 3.4650 | -17.9 | H | 3.0 | 40.3 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | 5.1975 | -14.7 | H | 3.0 | 40.9 | 1.0 | -54.6 | -13.0 | -41.6 | | |
| | 6.9300 | -0.7 | H | 3.0 | 41.0 | 1.0 | -40.7 | -13.0 | -27.7 | | |
| | High Channel (1752.5MHz) | | | | | | | | | | |
| | 3.5050 | -16.8 | V | 3.0 | 40.3 | 1.0 | -56.1 | -13.0 | -43.1 | | |
| | 5.2575 | -17.2 | V | 3.0 | 40.9 | 1.0 | -57.1 | -13.0 | -44.1 | | |
| | 7.0100 | -9.7 | V | 3.0 | 41.0 | 1.0 | -49.7 | -13.0 | -36.7 | | |
| | 3.5050 | -15.9 | H | 3.0 | 40.3 | 1.0 | -55.2 | -13.0 | -42.2 | | |
| | 5.2575 | -11.9 | H | 3.0 | 40.9 | 1.0 | -51.8 | -13.0 | -38.8 | | |
| | 7.0100 | -1.1 | H | 3.0 | 41.0 | 1.0 | -41.1 | -13.0 | -28.1 | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| | | Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|-------------------------------|--|--|-------------------------|------------------|-----------------|--------------|-------------|-------------|-------------|-------------|------------|-------|
| LTE Band 4 3MHz QPSK | Company: Samsung | | | | | | | | | | | |
| | Project #: 16K22867 | | | | | | | | | | | |
| | Date: 03-04-16 | | | | | | | | | | | |
| | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | Configuration: EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | | | |
| | Mode: TX, LTE BAND 4, 3MHz BW, QPSK | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1711.5MHz) | | | | | | | | | |
| | | | 3.4230 | -16.3 | V | 3.0 | 40.2 | 1.0 | -55.5 | -13.0 | -42.5 | |
| | | 5.1345 | -17.1 | V | 3.0 | 40.9 | 1.0 | -57.0 | -13.0 | -44.0 | | |
| | | 6.8460 | -7.3 | V | 3.0 | 41.0 | 1.0 | -47.3 | -13.0 | -34.3 | | |
| | | 3.4230 | -13.5 | H | 3.0 | 40.2 | 1.0 | -52.7 | -13.0 | -39.7 | | |
| | | 5.1345 | -13.6 | H | 3.0 | 40.9 | 1.0 | -53.5 | -13.0 | -40.5 | | |
| | | 6.8460 | 2.8 | H | 3.0 | 41.0 | 1.0 | -37.2 | -13.0 | -24.2 | | |
| | | Mid Channel (1732.5MHz) | | | | | | | | | | |
| | | 3.4650 | -17.7 | V | 3.0 | 40.3 | 1.0 | -57.0 | -13.0 | -44.0 | | |
| | | 5.1975 | -18.1 | V | 3.0 | 40.9 | 1.0 | -58.0 | -13.0 | -45.0 | | |
| | | 6.9300 | -7.4 | V | 3.0 | 41.0 | 1.0 | -47.4 | -13.0 | -34.4 | | |
| | | 3.4650 | -17.0 | H | 3.0 | 40.3 | 1.0 | -56.3 | -13.0 | -43.3 | | |
| | | 5.1975 | -12.8 | H | 3.0 | 40.9 | 1.0 | -52.7 | -13.0 | -39.7 | | |
| | | 6.9300 | 1.1 | H | 3.0 | 41.0 | 1.0 | -38.9 | -13.0 | -25.9 | | |
| | | High Channel (1753.5MHz) | | | | | | | | | | |
| | | 3.5070 | -16.3 | V | 3.0 | 40.3 | 1.0 | -55.6 | -13.0 | -42.6 | | |
| | | 5.2605 | -17.7 | V | 3.0 | 40.9 | 1.0 | -57.5 | -13.0 | -44.5 | | |
| | | 7.0140 | -8.5 | V | 3.0 | 41.0 | 1.0 | -48.5 | -13.0 | -35.5 | | |
| | | 3.5070 | -15.0 | H | 3.0 | 40.3 | 1.0 | -54.3 | -13.0 | -41.3 | | |
| | | 5.2605 | -10.0 | H | 3.0 | 40.9 | 1.0 | -49.9 | -13.0 | -36.9 | | |
| | | 7.0140 | -0.2 | H | 3.0 | 41.0 | 1.0 | -40.2 | -13.0 | -27.2 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| | | Company: Samsung | | | | | | | | | | |
| | | Project #: 16K22867 | | | | | | | | | | |
| | | Date: 03-04-16 | | | | | | | | | | |
| | | Test Engineer: Steven.Kim | | | | | | | | | | |
| | | Configuration: EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | | |
| | | Mode: TX, LTE BAND 4, 3MHz BW, 16QAM | | | | | | | | | | |
| | | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | | Low Channel (1711.5MHz) | | | | | | | | | | |
| | | 3.4230 | -17.4 | V | 3.0 | 40.2 | 1.0 | -56.6 | -13.0 | -43.6 | | |
| | | 5.1345 | -18.0 | V | 3.0 | 40.9 | 1.0 | -57.9 | -13.0 | -44.9 | | |
| | | 6.8460 | -8.3 | V | 3.0 | 41.0 | 1.0 | -48.3 | -13.0 | -35.3 | | |
| | | 3.4230 | -15.5 | H | 3.0 | 40.2 | 1.0 | -54.7 | -13.0 | -41.7 | | |
| | | 5.1345 | -14.5 | H | 3.0 | 40.9 | 1.0 | -54.4 | -13.0 | -41.4 | | |
| | | 6.8460 | 0.8 | H | 3.0 | 41.0 | 1.0 | -39.2 | -13.0 | -26.2 | | |
| | | Mid Channel (1732.5MHz) | | | | | | | | | | |
| | | 3.4650 | -19.1 | V | 3.0 | 40.3 | 1.0 | -58.4 | -13.0 | -45.4 | | |
| | | 5.1975 | -18.4 | V | 3.0 | 40.9 | 1.0 | -58.3 | -13.0 | -45.3 | | |
| | | 6.9300 | -9.1 | V | 3.0 | 41.0 | 1.0 | -49.1 | -13.0 | -36.1 | | |
| | | 3.4650 | -18.1 | H | 3.0 | 40.3 | 1.0 | -57.4 | -13.0 | -44.4 | | |
| | | 5.1975 | -14.0 | H | 3.0 | 40.9 | 1.0 | -53.9 | -13.0 | -40.9 | | |
| | | 6.9300 | -0.5 | H | 3.0 | 41.0 | 1.0 | -40.5 | -13.0 | -27.5 | | |
| | | High Channel (1753.5MHz) | | | | | | | | | | |
| | | 3.5070 | -17.7 | V | 3.0 | 40.3 | 1.0 | -57.0 | -13.0 | -44.0 | | |
| | | 5.2605 | -18.2 | V | 3.0 | 40.9 | 1.0 | -58.1 | -13.0 | -45.1 | | |
| | | 7.0140 | -9.5 | V | 3.0 | 41.0 | 1.0 | -49.5 | -13.0 | -36.5 | | |
| | | 3.5070 | -16.2 | H | 3.0 | 40.3 | 1.0 | -55.5 | -13.0 | -42.5 | | |
| | | 5.2605 | -11.5 | H | 3.0 | 40.9 | 1.0 | -51.4 | -13.0 | -38.4 | | |
| | | 7.0140 | -1.9 | H | 3.0 | 41.0 | 1.0 | -41.9 | -13.0 | -28.9 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|----------------------------------|--|---|--------------------------|-----------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|--|
| LTE Band 4 1.4MHz QPSK | Company: | Samsung | | | | | | | | | | | |
| | Project #: | 16K22867 | | | | | | | | | | | |
| | Date: | 03-04-16 | | | | | | | | | | | |
| | Test Engineer: | Steven.Kim | | | | | | | | | | | |
| | Configuration: | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | | | |
| | Mode: | TX, LTE BAND 4, 1.4MHz BW, QPSK | | | | | | | | | | | |
| | | | Chamber | Pre-amplifier | Filter | Limit | | | | | | | |
| | | | Chamber 2 | AFS42 | Filter 1 | FCC Part 27 | | | | | | | |
| | | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | | | Low Channel (1710.7MHz) | | | | | | | | | | |
| | | | 3.4214 | -14.8 | V | 3.0 | 40.2 | 1.0 | -54.1 | -13.0 | -41.1 | | |
| | | | 5.1321 | -13.9 | V | 3.0 | 40.9 | 1.0 | -53.8 | -13.0 | -40.8 | | |
| | | | 6.8428 | -3.8 | V | 3.0 | 41.0 | 1.0 | -43.7 | -13.0 | -30.7 | | |
| | | | 3.4214 | -11.5 | H | 3.0 | 40.2 | 1.0 | -50.8 | -13.0 | -37.8 | | |
| | | | 5.1321 | -11.6 | H | 3.0 | 40.9 | 1.0 | -51.5 | -13.0 | -38.5 | | |
| | | | 6.8428 | 4.2 | H | 3.0 | 41.0 | 1.0 | -35.8 | -13.0 | -22.8 | | |
| | | | Mid Channel (1732.5MHz) | | | | | | | | | | |
| | | | 3.4650 | -16.1 | V | 3.0 | 40.3 | 1.0 | -55.4 | -13.0 | -42.4 | | |
| | | | 5.1975 | -16.8 | V | 3.0 | 40.9 | 1.0 | -56.7 | -13.0 | -43.7 | | |
| | | | 6.9300 | -6.8 | V | 3.0 | 41.0 | 1.0 | -46.8 | -13.0 | -33.8 | | |
| | | | 3.4650 | -14.1 | H | 3.0 | 40.3 | 1.0 | -53.4 | -13.0 | -40.4 | | |
| | | | 5.1975 | -11.5 | H | 3.0 | 40.9 | 1.0 | -51.4 | -13.0 | -38.4 | | |
| | | | 6.9300 | 1.3 | H | 3.0 | 41.0 | 1.0 | -38.7 | -13.0 | -25.7 | | |
| | | | High Channel (1754.3MHz) | | | | | | | | | | |
| | | | 3.5086 | -14.7 | V | 3.0 | 40.3 | 1.0 | -54.0 | -13.0 | -41.0 | | |
| | | 5.2629 | -16.3 | V | 3.0 | 40.9 | 1.0 | -56.2 | -13.0 | -43.2 | | | |
| | | 7.0172 | -7.4 | V | 3.0 | 41.0 | 1.0 | -47.4 | -13.0 | -34.4 | | | |
| | | 3.5086 | -13.7 | H | 3.0 | 40.3 | 1.0 | -53.0 | -13.0 | -40.0 | | | |
| | | 5.2629 | -8.8 | H | 3.0 | 40.9 | 1.0 | -48.7 | -13.0 | -35.7 | | | |
| | | 7.0172 | 1.2 | H | 3.0 | 41.0 | 1.0 | -38.8 | -13.0 | -25.8 | | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| LTE Band 4 1.4MHz 16QAM | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | |
| | Company: | Samsung | | | | | | | | | | | |
| | Project #: | 16K22867 | | | | | | | | | | | |
| | Date: | 03-04-16 | | | | | | | | | | | |
| | Test Engineer: | Steven.Kim | | | | | | | | | | | |
| | Configuration: | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | | | |
| | Mode: | TX, LTE BAND 4, 1.4MHz BW, 16QAM | | | | | | | | | | | |
| | | | Chamber | Pre-amplifier | Filter | Limit | | | | | | | |
| | | | Chamber 2 | AFS42 | Filter 1 | FCC Part 27 | | | | | | | |
| | | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | | | Low Channel (1710.7MHz) | | | | | | | | | | |
| | | | 3.4214 | -15.8 | V | 3.0 | 40.2 | 1.0 | -55.0 | -13.0 | -42.0 | | |
| | | | 5.1321 | -14.9 | V | 3.0 | 40.9 | 1.0 | -54.8 | -13.0 | -41.8 | | |
| | | | 6.8428 | -4.7 | V | 3.0 | 41.0 | 1.0 | -44.7 | -13.0 | -31.7 | | |
| | | | 3.4214 | -12.5 | H | 3.0 | 40.2 | 1.0 | -51.7 | -13.0 | -38.7 | | |
| | | | 5.1321 | -12.6 | H | 3.0 | 40.9 | 1.0 | -52.5 | -13.0 | -39.5 | | |
| | | | 6.8428 | 3.1 | H | 3.0 | 41.0 | 1.0 | -36.9 | -13.0 | -23.9 | | |
| | | | Mid Channel (1732.5MHz) | | | | | | | | | | |
| | | | 3.4650 | -17.2 | V | 3.0 | 40.3 | 1.0 | -56.5 | -13.0 | -43.5 | | |
| | | | 5.1975 | -15.7 | V | 3.0 | 40.9 | 1.0 | -55.6 | -13.0 | -42.6 | | |
| | | | 6.9300 | -8.0 | V | 3.0 | 41.0 | 1.0 | -48.0 | -13.0 | -35.0 | | |
| | | | 3.4650 | -14.9 | H | 3.0 | 40.3 | 1.0 | -54.1 | -13.0 | -41.1 | | |
| | | | 5.1975 | -12.4 | H | 3.0 | 40.9 | 1.0 | -52.3 | -13.0 | -39.3 | | |
| | | | 6.9300 | 2.0 | H | 3.0 | 41.0 | 1.0 | -38.0 | -13.0 | -25.0 | | |
| | | | High Channel (1754.3MHz) | | | | | | | | | | |
| | | 3.5086 | -15.8 | V | 3.0 | 40.3 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| | | 5.2629 | -17.4 | V | 3.0 | 40.9 | 1.0 | -57.3 | -13.0 | -44.3 | | | |
| | | 7.0172 | -8.5 | V | 3.0 | 41.0 | 1.0 | -48.5 | -13.0 | -35.5 | | | |
| | | 3.5086 | -14.5 | H | 3.0 | 40.3 | 1.0 | -53.8 | -13.0 | -40.8 | | | |
| | | 5.2629 | -9.9 | H | 3.0 | 40.9 | 1.0 | -49.7 | -13.0 | -36.7 | | | |
| | | 7.0172 | -0.1 | H | 3.0 | 41.0 | 1.0 | -40.2 | -13.0 | -27.2 | | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

LTE Band 2

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|--|-----------------|-----------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|------------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|------------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|-------------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|
| LTE Band 2 20MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 20MHz BW, QPSK | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">FCC Part 24</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SGreading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Channel (1860MHz)</td> </tr> <tr><td>3.7200</td><td>-5.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr> <tr><td>5.5800</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr> <tr><td>7.4400</td><td>-2.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.7</td><td>-13.0</td><td>-29.7</td><td></td></tr> <tr><td>3.7200</td><td>-11.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.7</td><td>-13.0</td><td>-37.7</td><td></td></tr> <tr><td>5.5800</td><td>-9.6</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr> <tr><td>7.4400</td><td>-5.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr> <tr> <td colspan="10">Mid Channel (1880MHz)</td> </tr> <tr><td>3.7600</td><td>-5.2</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.8</td><td>-13.0</td><td>-31.8</td><td></td></tr> <tr><td>5.6400</td><td>-6.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>7.5200</td><td>-4.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-43.8</td><td>-13.0</td><td>-30.8</td><td></td></tr> <tr><td>3.7600</td><td>-9.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr> <tr><td>5.6400</td><td>-8.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr> <tr><td>7.5200</td><td>-5.6</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr> <tr> <td colspan="10">High Channel (1900MHz)</td> </tr> <tr><td>3.8000</td><td>-2.3</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-41.9</td><td>-13.0</td><td>-28.9</td><td></td></tr> <tr><td>5.7000</td><td>-1.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-41.2</td><td>-13.0</td><td>-28.2</td><td></td></tr> <tr><td>7.6000</td><td>-2.7</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-42.4</td><td>-13.0</td><td>-29.4</td><td></td></tr> <tr><td>3.8000</td><td>-5.1</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr> <tr><td>5.7000</td><td>-7.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr> <tr><td>7.6000</td><td>-4.6</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr> </tbody> </table> | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (1860MHz) | | | | | | | | | | 3.7200 | -5.8 | V | 3.0 | 40.5 | 1.0 | -45.3 | -13.0 | -32.3 | | 5.5800 | -5.5 | V | 3.0 | 40.8 | 1.0 | -45.3 | -13.0 | -32.3 | | 7.4400 | -2.9 | V | 3.0 | 40.8 | 1.0 | -42.7 | -13.0 | -29.7 | | 3.7200 | -11.2 | H | 3.0 | 40.5 | 1.0 | -50.7 | -13.0 | -37.7 | | 5.5800 | -9.6 | H | 3.0 | 40.8 | 1.0 | -49.4 | -13.0 | -36.4 | | 7.4400 | -5.9 | H | 3.0 | 40.8 | 1.0 | -45.7 | -13.0 | -32.7 | | Mid Channel (1880MHz) | | | | | | | | | | 3.7600 | -5.2 | V | 3.0 | 40.5 | 1.0 | -44.8 | -13.0 | -31.8 | | 5.6400 | -6.5 | V | 3.0 | 40.8 | 1.0 | -46.3 | -13.0 | -33.3 | | 7.5200 | -4.1 | V | 3.0 | 40.7 | 1.0 | -43.8 | -13.0 | -30.8 | | 3.7600 | -9.9 | H | 3.0 | 40.5 | 1.0 | -49.4 | -13.0 | -36.4 | | 5.6400 | -8.4 | H | 3.0 | 40.8 | 1.0 | -48.2 | -13.0 | -35.2 | | 7.5200 | -5.6 | H | 3.0 | 40.7 | 1.0 | -45.3 | -13.0 | -32.3 | | High Channel (1900MHz) | | | | | | | | | | 3.8000 | -2.3 | V | 3.0 | 40.6 | 1.0 | -41.9 | -13.0 | -28.9 | | 5.7000 | -1.4 | V | 3.0 | 40.8 | 1.0 | -41.2 | -13.0 | -28.2 | | 7.6000 | -2.7 | V | 3.0 | 40.7 | 1.0 | -42.4 | -13.0 | -29.4 | | 3.8000 | -5.1 | H | 3.0 | 40.6 | 1.0 | -44.7 | -13.0 | -31.7 | | 5.7000 | -7.2 | H | 3.0 | 40.8 | 1.0 | -47.0 | -13.0 | -34.0 | | 7.6000 | -4.6 | H | 3.0 | 40.7 | 1.0 | -44.3 | -13.0 | -31.3 | |
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (1860MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7200 | -5.8 | V | 3.0 | 40.5 | 1.0 | -45.3 | -13.0 | -32.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5800 | -5.5 | V | 3.0 | 40.8 | 1.0 | -45.3 | -13.0 | -32.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4400 | -2.9 | V | 3.0 | 40.8 | 1.0 | -42.7 | -13.0 | -29.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7200 | -11.2 | H | 3.0 | 40.5 | 1.0 | -50.7 | -13.0 | -37.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5800 | -9.6 | H | 3.0 | 40.8 | 1.0 | -49.4 | -13.0 | -36.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4400 | -5.9 | H | 3.0 | 40.8 | 1.0 | -45.7 | -13.0 | -32.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (1880MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7600 | -5.2 | V | 3.0 | 40.5 | 1.0 | -44.8 | -13.0 | -31.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.6400 | -6.5 | V | 3.0 | 40.8 | 1.0 | -46.3 | -13.0 | -33.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.5200 | -4.1 | V | 3.0 | 40.7 | 1.0 | -43.8 | -13.0 | -30.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7600 | -9.9 | H | 3.0 | 40.5 | 1.0 | -49.4 | -13.0 | -36.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -8.4 | H | 3.0 | 40.8 | 1.0 | -48.2 | -13.0 | -35.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -5.6 | H | 3.0 | 40.7 | 1.0 | -45.3 | -13.0 | -32.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (1900MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8000 | -2.3 | V | 3.0 | 40.6 | 1.0 | -41.9 | -13.0 | -28.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7000 | -1.4 | V | 3.0 | 40.8 | 1.0 | -41.2 | -13.0 | -28.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6000 | -2.7 | V | 3.0 | 40.7 | 1.0 | -42.4 | -13.0 | -29.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8000 | -5.1 | H | 3.0 | 40.6 | 1.0 | -44.7 | -13.0 | -31.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7000 | -7.2 | H | 3.0 | 40.8 | 1.0 | -47.0 | -13.0 | -34.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6000 | -4.6 | H | 3.0 | 40.7 | 1.0 | -44.3 | -13.0 | -31.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Band 2 20MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 20MHz BW, 16QAM | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">FCC Part 24</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SGreading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Channel (1860MHz)</td> </tr> <tr><td>3.7200</td><td>-7.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr> <tr><td>5.5800</td><td>-6.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr> <tr><td>7.4400</td><td>-4.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.8</td><td>-13.0</td><td>-30.8</td><td></td></tr> <tr><td>3.7200</td><td>-12.1</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td><td></td></tr> <tr><td>5.5800</td><td>-11.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td>7.4400</td><td>-7.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr> <tr> <td colspan="10">Mid Channel (1880MHz)</td> </tr> <tr><td>3.7600</td><td>-6.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.0</td><td>-13.0</td><td>-33.0</td><td></td></tr> <tr><td>5.6400</td><td>-7.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr> <tr><td>7.5200</td><td>-5.4</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr> <tr><td>3.7600</td><td>-11.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.7</td><td>-13.0</td><td>-37.7</td><td></td></tr> <tr><td>5.6400</td><td>-9.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr> <tr><td>7.5200</td><td>-6.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr> <tr> <td colspan="10">High Channel (1900MHz)</td> </tr> <tr><td>3.8000</td><td>-3.8</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.4</td><td>-13.0</td><td>-30.4</td><td></td></tr> <tr><td>5.7000</td><td>-2.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.3</td><td>-13.0</td><td>-29.3</td><td></td></tr> <tr><td>7.6000</td><td>-3.8</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-43.4</td><td>-13.0</td><td>-30.4</td><td></td></tr> <tr><td>3.8000</td><td>-6.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.0</td><td>-13.0</td><td>-33.0</td><td></td></tr> <tr><td>5.7000</td><td>-8.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>7.6000</td><td>-6.0</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr> </tbody> </table> | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (1860MHz) | | | | | | | | | | 3.7200 | -7.1 | V | 3.0 | 40.5 | 1.0 | -46.6 | -13.0 | -33.6 | | 5.5800 | -6.9 | V | 3.0 | 40.8 | 1.0 | -46.7 | -13.0 | -33.7 | | 7.4400 | -4.1 | V | 3.0 | 40.8 | 1.0 | -43.8 | -13.0 | -30.8 | | 3.7200 | -12.1 | H | 3.0 | 40.5 | 1.0 | -51.6 | -13.0 | -38.6 | | 5.5800 | -11.0 | H | 3.0 | 40.8 | 1.0 | -50.8 | -13.0 | -37.8 | | 7.4400 | -7.0 | H | 3.0 | 40.8 | 1.0 | -46.8 | -13.0 | -33.8 | | Mid Channel (1880MHz) | | | | | | | | | | 3.7600 | -6.5 | V | 3.0 | 40.5 | 1.0 | -46.0 | -13.0 | -33.0 | | 5.6400 | -7.8 | V | 3.0 | 40.8 | 1.0 | -47.6 | -13.0 | -34.6 | | 7.5200 | -5.4 | V | 3.0 | 40.7 | 1.0 | -45.1 | -13.0 | -32.1 | | 3.7600 | -11.2 | H | 3.0 | 40.5 | 1.0 | -50.7 | -13.0 | -37.7 | | 5.6400 | -9.5 | H | 3.0 | 40.8 | 1.0 | -49.3 | -13.0 | -36.3 | | 7.5200 | -6.9 | H | 3.0 | 40.7 | 1.0 | -46.6 | -13.0 | -33.6 | | High Channel (1900MHz) | | | | | | | | | | 3.8000 | -3.8 | V | 3.0 | 40.6 | 1.0 | -43.4 | -13.0 | -30.4 | | 5.7000 | -2.5 | V | 3.0 | 40.8 | 1.0 | -42.3 | -13.0 | -29.3 | | 7.6000 | -3.8 | V | 3.0 | 40.7 | 1.0 | -43.4 | -13.0 | -30.4 | | 3.8000 | -6.4 | H | 3.0 | 40.6 | 1.0 | -46.0 | -13.0 | -33.0 | | 5.7000 | -8.7 | H | 3.0 | 40.8 | 1.0 | -48.5 | -13.0 | -35.5 | | 7.6000 | -6.0 | H | 3.0 | 40.7 | 1.0 | -45.7 | -13.0 | -32.7 | |
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (1860MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7200 | -7.1 | V | 3.0 | 40.5 | 1.0 | -46.6 | -13.0 | -33.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5800 | -6.9 | V | 3.0 | 40.8 | 1.0 | -46.7 | -13.0 | -33.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4400 | -4.1 | V | 3.0 | 40.8 | 1.0 | -43.8 | -13.0 | -30.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7200 | -12.1 | H | 3.0 | 40.5 | 1.0 | -51.6 | -13.0 | -38.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5800 | -11.0 | H | 3.0 | 40.8 | 1.0 | -50.8 | -13.0 | -37.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4400 | -7.0 | H | 3.0 | 40.8 | 1.0 | -46.8 | -13.0 | -33.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (1880MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7600 | -6.5 | V | 3.0 | 40.5 | 1.0 | -46.0 | -13.0 | -33.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.6400 | -7.8 | V | 3.0 | 40.8 | 1.0 | -47.6 | -13.0 | -34.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.5200 | -5.4 | V | 3.0 | 40.7 | 1.0 | -45.1 | -13.0 | -32.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7600 | -11.2 | H | 3.0 | 40.5 | 1.0 | -50.7 | -13.0 | -37.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -9.5 | H | 3.0 | 40.8 | 1.0 | -49.3 | -13.0 | -36.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -6.9 | H | 3.0 | 40.7 | 1.0 | -46.6 | -13.0 | -33.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (1900MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8000 | -3.8 | V | 3.0 | 40.6 | 1.0 | -43.4 | -13.0 | -30.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7000 | -2.5 | V | 3.0 | 40.8 | 1.0 | -42.3 | -13.0 | -29.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6000 | -3.8 | V | 3.0 | 40.7 | 1.0 | -43.4 | -13.0 | -30.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8000 | -6.4 | H | 3.0 | 40.6 | 1.0 | -46.0 | -13.0 | -33.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7000 | -8.7 | H | 3.0 | 40.8 | 1.0 | -48.5 | -13.0 | -35.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6000 | -6.0 | H | 3.0 | 40.7 | 1.0 | -45.7 | -13.0 | -32.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|---------------------------------|--|--|-------------------------|-----------------------|---------------------|--------------------|--------------------|------------------|--------------------|-------------------|--------------|--|
| LTE Band 2 15MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 15MHz BW, QPSK | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div>Chamber Chamber 2</div> <div>Pre-amplifier AFS42</div> <div>Filter Filter 1</div> <div>Limit FCC Part 24</div> </div> | | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (HV) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | | Low Channel (1857.5MHz) | | | | | | | | | | |
| | | 3.7150 | -5.1 | V | 3.0 | 40.5 | 1.0 | -44.6 | -13.0 | -31.6 | | |
| | | 5.5725 | -4.4 | V | 3.0 | 40.8 | 1.0 | -44.3 | -13.0 | -31.3 | | |
| | | 7.4300 | -1.7 | V | 3.0 | 40.8 | 1.0 | -41.5 | -13.0 | -28.5 | | |
| | | 3.7150 | -11.6 | H | 3.0 | 40.5 | 1.0 | -51.1 | -13.0 | -38.1 | | |
| | | 5.5725 | -8.3 | H | 3.0 | 40.8 | 1.0 | -48.1 | -13.0 | -35.1 | | |
| | | 7.4300 | -4.8 | H | 3.0 | 40.8 | 1.0 | -44.6 | -13.0 | -31.6 | | |
| | | Mid Channel (1880MHz) | | | | | | | | | | |
| | | 3.7600 | -3.6 | V | 3.0 | 40.5 | 1.0 | -43.2 | -13.0 | -30.2 | | |
| | | 5.6400 | -4.9 | V | 3.0 | 40.8 | 1.0 | -44.7 | -13.0 | -31.7 | | |
| | | 7.5200 | -2.1 | V | 3.0 | 40.7 | 1.0 | -41.8 | -13.0 | -28.8 | | |
| | | 3.7600 | -10.3 | H | 3.0 | 40.5 | 1.0 | -49.8 | -13.0 | -36.8 | | |
| | | 5.6400 | -8.3 | H | 3.0 | 40.8 | 1.0 | -48.1 | -13.0 | -35.1 | | |
| | | 7.5200 | -6.1 | H | 3.0 | 40.7 | 1.0 | -45.8 | -13.0 | -32.8 | | |
| | | High Channel (1902.5MHz) | | | | | | | | | | |
| | | 3.8050 | -1.9 | V | 3.0 | 40.6 | 1.0 | -41.5 | -13.0 | -28.5 | | |
| | | 5.7075 | -1.0 | V | 3.0 | 40.8 | 1.0 | -40.8 | -13.0 | -27.8 | | |
| | 7.6100 | -2.0 | V | 3.0 | 40.7 | 1.0 | -41.7 | -13.0 | -28.7 | | | |
| | 3.8050 | -4.4 | H | 3.0 | 40.6 | 1.0 | -44.0 | -13.0 | -31.0 | | | |
| | 5.7075 | -7.0 | H | 3.0 | 40.8 | 1.0 | -46.8 | -13.0 | -33.8 | | | |
| | 7.6100 | -5.3 | H | 3.0 | 40.7 | 1.0 | -44.9 | -13.0 | -31.9 | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| LTE Band 2 15MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-04-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 15MHz BW, 16QAM | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div>Chamber Chamber 2</div> <div>Pre-amplifier AFS42</div> <div>Filter Filter 1</div> <div>Limit FCC Part 24</div> </div> | | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (HV) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | | Low Channel (1857.5MHz) | | | | | | | | | | |
| | | 3.7150 | -5.9 | V | 3.0 | 40.5 | 1.0 | -45.4 | -13.0 | -32.4 | | |
| | | 5.5725 | -5.3 | V | 3.0 | 40.8 | 1.0 | -45.1 | -13.0 | -32.1 | | |
| | | 7.4300 | -2.6 | V | 3.0 | 40.8 | 1.0 | -42.4 | -13.0 | -29.4 | | |
| | | 3.7150 | -12.9 | H | 3.0 | 40.5 | 1.0 | -52.4 | -13.0 | -39.4 | | |
| | | 5.5725 | -8.7 | H | 3.0 | 40.8 | 1.0 | -48.5 | -13.0 | -35.5 | | |
| | | 7.4300 | -5.7 | H | 3.0 | 40.8 | 1.0 | -45.5 | -13.0 | -32.5 | | |
| | | Mid Channel (1880MHz) | | | | | | | | | | |
| | | 3.7600 | -4.9 | V | 3.0 | 40.5 | 1.0 | -44.4 | -13.0 | -31.4 | | |
| | | 5.6400 | -6.6 | V | 3.0 | 40.8 | 1.0 | -46.4 | -13.0 | -33.4 | | |
| | | 7.5200 | -4.4 | V | 3.0 | 40.7 | 1.0 | -44.1 | -13.0 | -31.1 | | |
| | | 3.7600 | -11.3 | H | 3.0 | 40.5 | 1.0 | -50.9 | -13.0 | -37.9 | | |
| | | 5.6400 | -10.0 | H | 3.0 | 40.8 | 1.0 | -49.8 | -13.0 | -36.8 | | |
| | | 7.5200 | -7.7 | H | 3.0 | 40.7 | 1.0 | -47.4 | -13.0 | -34.4 | | |
| | | High Channel (1902.5MHz) | | | | | | | | | | |
| | | 3.8050 | -0.4 | V | 3.0 | 40.6 | 1.0 | -40.0 | -13.0 | -27.0 | | |
| | | 5.7075 | -3.1 | V | 3.0 | 40.8 | 1.0 | -42.9 | -13.0 | -29.9 | | |
| | 7.6100 | -3.8 | V | 3.0 | 40.7 | 1.0 | -43.4 | -13.0 | -30.4 | | | |
| | 3.8050 | -5.9 | H | 3.0 | 40.6 | 1.0 | -45.4 | -13.0 | -32.4 | | | |
| | 5.7075 | -8.1 | H | 3.0 | 40.8 | 1.0 | -47.9 | -13.0 | -34.9 | | | |
| | 7.6100 | -6.5 | H | 3.0 | 40.7 | 1.0 | -46.2 | -13.0 | -33.2 | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| LTE Band 2 10MHz QPSK | Company: Samsung Project #: 16K22867 Date: 03-03-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 10MHz BW, QPSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 24</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SGreading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Channel (1855MHz)</td> </tr> <tr> <td>3.7100</td> <td>-8.6</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-48.1</td> <td>-13.0</td> <td>-35.1</td> <td></td> </tr> <tr> <td>5.5650</td> <td>-4.1</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-44.0</td> <td>-13.0</td> <td>-31.0</td> <td></td> </tr> <tr> <td>7.4200</td> <td>-0.7</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-40.4</td> <td>-13.0</td> <td>-27.4</td> <td></td> </tr> <tr> <td>3.7100</td> <td>-8.8</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-48.3</td> <td>-13.0</td> <td>-35.3</td> <td></td> </tr> <tr> <td>5.5650</td> <td>-9.9</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-49.7</td> <td>-13.0</td> <td>-36.7</td> <td></td> </tr> <tr> <td>7.4200</td> <td>-5.2</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-45.0</td> <td>-13.0</td> <td>-32.0</td> <td></td> </tr> <tr> <td colspan="10">Mid Channel (1880MHz)</td> </tr> <tr> <td>3.7600</td> <td>-6.7</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-46.2</td> <td>-13.0</td> <td>-33.2</td> <td></td> </tr> <tr> <td>5.6400</td> <td>-5.5</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-45.3</td> <td>-13.0</td> <td>-32.3</td> <td></td> </tr> <tr> <td>7.5200</td> <td>-3.8</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-43.6</td> <td>-13.0</td> <td>-30.6</td> <td></td> </tr> <tr> <td>3.7600</td> <td>-12.3</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-51.9</td> <td>-13.0</td> <td>-38.9</td> <td></td> </tr> <tr> <td>5.6400</td> <td>-12.9</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-52.7</td> <td>-13.0</td> <td>-39.7</td> <td></td> </tr> <tr> <td>7.5200</td> <td>-7.5</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-47.2</td> <td>-13.0</td> <td>-34.2</td> <td></td> </tr> <tr> <td colspan="10">High Channel (1905MHz)</td> </tr> <tr> <td>3.8100</td> <td>0.2</td> <td>V</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-39.4</td> <td>-13.0</td> <td>-26.4</td> <td></td> </tr> <tr> <td>5.7150</td> <td>-0.2</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-40.0</td> <td>-13.0</td> <td>-27.0</td> <td></td> </tr> <tr> <td>7.6200</td> <td>-1.2</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-40.9</td> <td>-13.0</td> <td>-27.9</td> <td></td> </tr> <tr> <td>3.8100</td> <td>-3.8</td> <td>H</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-43.4</td> <td>-13.0</td> <td>-30.4</td> <td></td> </tr> <tr> <td>5.7150</td> <td>-1.6</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-41.4</td> <td>-13.0</td> <td>-28.4</td> <td></td> </tr> <tr> <td>7.6200</td> <td>-4.6</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-44.3</td> <td>-13.0</td> <td>-31.3</td> <td></td> </tr> </tbody> </table> | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (1855MHz) | | | | | | | | | | 3.7100 | -8.6 | V | 3.0 | 40.5 | 1.0 | -48.1 | -13.0 | -35.1 | | 5.5650 | -4.1 | V | 3.0 | 40.8 | 1.0 | -44.0 | -13.0 | -31.0 | | 7.4200 | -0.7 | V | 3.0 | 40.8 | 1.0 | -40.4 | -13.0 | -27.4 | | 3.7100 | -8.8 | H | 3.0 | 40.5 | 1.0 | -48.3 | -13.0 | -35.3 | | 5.5650 | -9.9 | H | 3.0 | 40.8 | 1.0 | -49.7 | -13.0 | -36.7 | | 7.4200 | -5.2 | H | 3.0 | 40.8 | 1.0 | -45.0 | -13.0 | -32.0 | | Mid Channel (1880MHz) | | | | | | | | | | 3.7600 | -6.7 | V | 3.0 | 40.5 | 1.0 | -46.2 | -13.0 | -33.2 | | 5.6400 | -5.5 | V | 3.0 | 40.8 | 1.0 | -45.3 | -13.0 | -32.3 | | 7.5200 | -3.8 | V | 3.0 | 40.7 | 1.0 | -43.6 | -13.0 | -30.6 | | 3.7600 | -12.3 | H | 3.0 | 40.5 | 1.0 | -51.9 | -13.0 | -38.9 | | 5.6400 | -12.9 | H | 3.0 | 40.8 | 1.0 | -52.7 | -13.0 | -39.7 | | 7.5200 | -7.5 | H | 3.0 | 40.7 | 1.0 | -47.2 | -13.0 | -34.2 | | High Channel (1905MHz) | | | | | | | | | | 3.8100 | 0.2 | V | 3.0 | 40.6 | 1.0 | -39.4 | -13.0 | -26.4 | | 5.7150 | -0.2 | V | 3.0 | 40.8 | 1.0 | -40.0 | -13.0 | -27.0 | | 7.6200 | -1.2 | V | 3.0 | 40.7 | 1.0 | -40.9 | -13.0 | -27.9 | | 3.8100 | -3.8 | H | 3.0 | 40.6 | 1.0 | -43.4 | -13.0 | -30.4 | | 5.7150 | -1.6 | H | 3.0 | 40.8 | 1.0 | -41.4 | -13.0 | -28.4 | | 7.6200 | -4.6 | H | 3.0 | 40.7 | 1.0 | -44.3 | -13.0 | -31.3 | | |
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (1855MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7100 | -8.6 | V | 3.0 | 40.5 | 1.0 | -48.1 | -13.0 | -35.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5650 | -4.1 | V | 3.0 | 40.8 | 1.0 | -44.0 | -13.0 | -31.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4200 | -0.7 | V | 3.0 | 40.8 | 1.0 | -40.4 | -13.0 | -27.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7100 | -8.8 | H | 3.0 | 40.5 | 1.0 | -48.3 | -13.0 | -35.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5650 | -9.9 | H | 3.0 | 40.8 | 1.0 | -49.7 | -13.0 | -36.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4200 | -5.2 | H | 3.0 | 40.8 | 1.0 | -45.0 | -13.0 | -32.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (1880MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7600 | -6.7 | V | 3.0 | 40.5 | 1.0 | -46.2 | -13.0 | -33.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.6400 | -5.5 | V | 3.0 | 40.8 | 1.0 | -45.3 | -13.0 | -32.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.5200 | -3.8 | V | 3.0 | 40.7 | 1.0 | -43.6 | -13.0 | -30.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7600 | -12.3 | H | 3.0 | 40.5 | 1.0 | -51.9 | -13.0 | -38.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.6400 | -12.9 | H | 3.0 | 40.8 | 1.0 | -52.7 | -13.0 | -39.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.5200 | -7.5 | H | 3.0 | 40.7 | 1.0 | -47.2 | -13.0 | -34.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | High Channel (1905MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.8100 | 0.2 | V | 3.0 | 40.6 | 1.0 | -39.4 | -13.0 | -26.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7150 | -0.2 | V | 3.0 | 40.8 | 1.0 | -40.0 | -13.0 | -27.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6200 | -1.2 | V | 3.0 | 40.7 | 1.0 | -40.9 | -13.0 | -27.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8100 | -3.8 | H | 3.0 | 40.6 | 1.0 | -43.4 | -13.0 | -30.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7150 | -1.6 | H | 3.0 | 40.8 | 1.0 | -41.4 | -13.0 | -28.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6200 | -4.6 | H | 3.0 | 40.7 | 1.0 | -44.3 | -13.0 | -31.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Band 2 10MHz 16QAM | Company: Samsung Project #: 16K22867 Date: 03-03-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 10MHz BW, 16QAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 24</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SGreading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Channel (1855MHz)</td> </tr> <tr> <td>3.7100</td> <td>-9.7</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-49.2</td> <td>-13.0</td> <td>-36.2</td> <td></td> </tr> <tr> <td>5.5650</td> <td>-5.1</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-44.9</td> <td>-13.0</td> <td>-31.9</td> <td></td> </tr> <tr> <td>7.4200</td> <td>-1.2</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-41.0</td> <td>-13.0</td> <td>-28.0</td> <td></td> </tr> <tr> <td>3.7100</td> <td>-9.9</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-49.4</td> <td>-13.0</td> <td>-36.4</td> <td></td> </tr> <tr> <td>5.5650</td> <td>-10.5</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-50.4</td> <td>-13.0</td> <td>-37.4</td> <td></td> </tr> <tr> <td>7.4200</td> <td>-6.0</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-45.7</td> <td>-13.0</td> <td>-32.7</td> <td></td> </tr> <tr> <td colspan="10">Mid Channel (1880MHz)</td> </tr> <tr> <td>3.7600</td> <td>-7.8</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-47.3</td> <td>-13.0</td> <td>-34.3</td> <td></td> </tr> <tr> <td>5.6400</td> <td>-6.6</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-46.4</td> <td>-13.0</td> <td>-33.4</td> <td></td> </tr> <tr> <td>7.5200</td> <td>-4.9</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-44.7</td> <td>-13.0</td> <td>-31.7</td> <td></td> </tr> <tr> <td>3.7600</td> <td>-14.2</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-53.7</td> <td>-13.0</td> <td>-40.7</td> <td></td> </tr> <tr> <td>5.6400</td> <td>-14.2</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-54.0</td> <td>-13.0</td> <td>-41.0</td> <td></td> </tr> <tr> <td>7.5200</td> <td>-8.3</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-48.0</td> <td>-13.0</td> <td>-35.0</td> <td></td> </tr> <tr> <td colspan="10">High Channel (1905MHz)</td> </tr> <tr> <td>3.8100</td> <td>-1.2</td> <td>V</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-40.8</td> <td>-13.0</td> <td>-27.8</td> <td></td> </tr> <tr> <td>5.7150</td> <td>-2.1</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-41.9</td> <td>-13.0</td> <td>-28.9</td> <td></td> </tr> <tr> <td>7.6200</td> <td>-2.9</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-42.6</td> <td>-13.0</td> <td>-29.6</td> <td></td> </tr> <tr> <td>3.8100</td> <td>-5.2</td> <td>H</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-44.7</td> <td>-13.0</td> <td>-31.7</td> <td></td> </tr> <tr> <td>5.7150</td> <td>-3.6</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-43.3</td> <td>-13.0</td> <td>-30.3</td> <td></td> </tr> <tr> <td>7.6200</td> <td>-6.1</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-45.7</td> <td>-13.0</td> <td>-32.7</td> <td></td> </tr> </tbody> </table> | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (1855MHz) | | | | | | | | | | 3.7100 | -9.7 | V | 3.0 | 40.5 | 1.0 | -49.2 | -13.0 | -36.2 | | 5.5650 | -5.1 | V | 3.0 | 40.8 | 1.0 | -44.9 | -13.0 | -31.9 | | 7.4200 | -1.2 | V | 3.0 | 40.8 | 1.0 | -41.0 | -13.0 | -28.0 | | 3.7100 | -9.9 | H | 3.0 | 40.5 | 1.0 | -49.4 | -13.0 | -36.4 | | 5.5650 | -10.5 | H | 3.0 | 40.8 | 1.0 | -50.4 | -13.0 | -37.4 | | 7.4200 | -6.0 | H | 3.0 | 40.8 | 1.0 | -45.7 | -13.0 | -32.7 | | Mid Channel (1880MHz) | | | | | | | | | | 3.7600 | -7.8 | V | 3.0 | 40.5 | 1.0 | -47.3 | -13.0 | -34.3 | | 5.6400 | -6.6 | V | 3.0 | 40.8 | 1.0 | -46.4 | -13.0 | -33.4 | | 7.5200 | -4.9 | V | 3.0 | 40.7 | 1.0 | -44.7 | -13.0 | -31.7 | | 3.7600 | -14.2 | H | 3.0 | 40.5 | 1.0 | -53.7 | -13.0 | -40.7 | | 5.6400 | -14.2 | H | 3.0 | 40.8 | 1.0 | -54.0 | -13.0 | -41.0 | | 7.5200 | -8.3 | H | 3.0 | 40.7 | 1.0 | -48.0 | -13.0 | -35.0 | | High Channel (1905MHz) | | | | | | | | | | 3.8100 | -1.2 | V | 3.0 | 40.6 | 1.0 | -40.8 | -13.0 | -27.8 | | 5.7150 | -2.1 | V | 3.0 | 40.8 | 1.0 | -41.9 | -13.0 | -28.9 | | 7.6200 | -2.9 | V | 3.0 | 40.7 | 1.0 | -42.6 | -13.0 | -29.6 | | 3.8100 | -5.2 | H | 3.0 | 40.6 | 1.0 | -44.7 | -13.0 | -31.7 | | 5.7150 | -3.6 | H | 3.0 | 40.8 | 1.0 | -43.3 | -13.0 | -30.3 | | 7.6200 | -6.1 | H | 3.0 | 40.7 | 1.0 | -45.7 | -13.0 | -32.7 | | |
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (1855MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7100 | -9.7 | V | 3.0 | 40.5 | 1.0 | -49.2 | -13.0 | -36.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5650 | -5.1 | V | 3.0 | 40.8 | 1.0 | -44.9 | -13.0 | -31.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4200 | -1.2 | V | 3.0 | 40.8 | 1.0 | -41.0 | -13.0 | -28.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7100 | -9.9 | H | 3.0 | 40.5 | 1.0 | -49.4 | -13.0 | -36.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.5650 | -10.5 | H | 3.0 | 40.8 | 1.0 | -50.4 | -13.0 | -37.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.4200 | -6.0 | H | 3.0 | 40.8 | 1.0 | -45.7 | -13.0 | -32.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (1880MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7600 | -7.8 | V | 3.0 | 40.5 | 1.0 | -47.3 | -13.0 | -34.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.6400 | -6.6 | V | 3.0 | 40.8 | 1.0 | -46.4 | -13.0 | -33.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.5200 | -4.9 | V | 3.0 | 40.7 | 1.0 | -44.7 | -13.0 | -31.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.7600 | -14.2 | H | 3.0 | 40.5 | 1.0 | -53.7 | -13.0 | -40.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.6400 | -14.2 | H | 3.0 | 40.8 | 1.0 | -54.0 | -13.0 | -41.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.5200 | -8.3 | H | 3.0 | 40.7 | 1.0 | -48.0 | -13.0 | -35.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | High Channel (1905MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.8100 | -1.2 | V | 3.0 | 40.6 | 1.0 | -40.8 | -13.0 | -27.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7150 | -2.1 | V | 3.0 | 40.8 | 1.0 | -41.9 | -13.0 | -28.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6200 | -2.9 | V | 3.0 | 40.7 | 1.0 | -42.6 | -13.0 | -29.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8100 | -5.2 | H | 3.0 | 40.6 | 1.0 | -44.7 | -13.0 | -31.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7150 | -3.6 | H | 3.0 | 40.8 | 1.0 | -43.3 | -13.0 | -30.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6200 | -6.1 | H | 3.0 | 40.7 | 1.0 | -45.7 | -13.0 | -32.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|-------|--|------------------|-----------------|--------------|-------------|-------------|-------------|-------------|------------|-------|
| LTE Band 2 5MHz QPSK | | Company: Samsung | | | | | | | | | |
| | | Project #: 16K22867 | | | | | | | | | |
| | | Date: 03-03-16 | | | | | | | | | |
| | | Test Engineer: Steven.Kim | | | | | | | | | |
| | | Configuration: EUT / AC Adapter / Ear Phone / X-Position | | | | | | | | | |
| | | Mode: TX, LTE BAND 2, 5MHz BW, QPSK | | | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| | | Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 24 | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (1852.5MHz) | | | | | | | | | |
| | | 3.7050 | -5.4 | V | 3.0 | 40.5 | 1.0 | -44.9 | -13.0 | -31.9 | |
| | | 5.5575 | -5.6 | V | 3.0 | 40.8 | 1.0 | -45.4 | -13.0 | -32.4 | |
| | | 7.4100 | -1.8 | V | 3.0 | 40.8 | 1.0 | -41.6 | -13.0 | -28.6 | |
| | | 3.7050 | -11.3 | H | 3.0 | 40.5 | 1.0 | -50.8 | -13.0 | -37.8 | |
| | | 5.5575 | -9.9 | H | 3.0 | 40.8 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 7.4100 | -7.7 | H | 3.0 | 40.8 | 1.0 | -47.5 | -13.0 | -34.5 | | | |
| Mid Channel (1880MHz) | | | | | | | | | | | |
| 3.7600 | -2.2 | V | 3.0 | 40.5 | 1.0 | -41.7 | -13.0 | -28.7 | | | |
| 5.6400 | -3.3 | V | 3.0 | 40.8 | 1.0 | -43.1 | -13.0 | -30.1 | | | |
| 7.5200 | -2.1 | V | 3.0 | 40.7 | 1.0 | -41.8 | -13.0 | -28.8 | | | |
| 3.7600 | -9.2 | H | 3.0 | 40.5 | 1.0 | -48.8 | -13.0 | -35.8 | | | |
| 5.6400 | -10.6 | H | 3.0 | 40.8 | 1.0 | -50.4 | -13.0 | -37.4 | | | |
| 7.5200 | -7.3 | H | 3.0 | 40.7 | 1.0 | -47.0 | -13.0 | -34.0 | | | |
| High Channel (1907.5MHz) | | | | | | | | | | | |
| 3.8150 | 1.7 | V | 3.0 | 40.6 | 1.0 | -37.9 | -13.0 | -24.9 | | | |
| 5.7225 | 0.0 | V | 3.0 | 40.8 | 1.0 | -39.8 | -13.0 | -26.8 | | | |
| 7.6300 | -1.1 | V | 3.0 | 40.7 | 1.0 | -40.7 | -13.0 | -27.7 | | | |
| 3.8150 | -6.8 | H | 3.0 | 40.6 | 1.0 | -46.4 | -13.0 | -33.4 | | | |
| 5.7225 | -9.2 | H | 3.0 | 40.8 | 1.0 | -49.0 | -13.0 | -36.0 | | | |
| 7.6300 | -5.8 | H | 3.0 | 40.7 | 1.0 | -45.5 | -13.0 | -32.5 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| LTE Band 2 5MHz 16QAM | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| | | Company: Samsung | | | | | | | | | |
| | | Project #: 16K22867 | | | | | | | | | |
| | | Date: 03-03-16 | | | | | | | | | |
| | | Test Engineer: Steven.Kim | | | | | | | | | |
| | | Configuration: EUT / AC Adapter / Ear Phone / X-Position | | | | | | | | | |
| | | Mode: TX, LTE BAND 2, 5MHz BW, 16QAM | | | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| | | Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 24 | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (1852.5MHz) | | | | | | | | | |
| | | 3.7050 | -5.9 | V | 3.0 | 40.5 | 1.0 | -45.4 | -13.0 | -32.4 | |
| | | 5.5575 | -6.7 | V | 3.0 | 40.8 | 1.0 | -46.5 | -13.0 | -33.5 | |
| | | 7.4100 | -2.5 | V | 3.0 | 40.8 | 1.0 | -42.3 | -13.0 | -29.3 | |
| | | 3.7050 | -12.1 | H | 3.0 | 40.5 | 1.0 | -51.6 | -13.0 | -38.6 | |
| 5.5575 | -11.0 | H | 3.0 | 40.8 | 1.0 | -50.8 | -13.0 | -37.8 | | | |
| 7.4100 | -8.2 | H | 3.0 | 40.8 | 1.0 | -48.0 | -13.0 | -35.0 | | | |
| Mid Channel (1880MHz) | | | | | | | | | | | |
| 3.7600 | -3.8 | V | 3.0 | 40.5 | 1.0 | -43.4 | -13.0 | -30.4 | | | |
| 5.6400 | -5.2 | V | 3.0 | 40.8 | 1.0 | -45.0 | -13.0 | -32.0 | | | |
| 7.5200 | -3.4 | V | 3.0 | 40.7 | 1.0 | -43.1 | -13.0 | -30.1 | | | |
| 3.7600 | -10.8 | H | 3.0 | 40.5 | 1.0 | -50.4 | -13.0 | -37.4 | | | |
| 5.6400 | -11.9 | H | 3.0 | 40.8 | 1.0 | -51.7 | -13.0 | -38.7 | | | |
| 7.5200 | -8.5 | H | 3.0 | 40.7 | 1.0 | -48.3 | -13.0 | -35.3 | | | |
| High Channel (1907.5MHz) | | | | | | | | | | | |
| 3.8150 | 0.5 | V | 3.0 | 40.6 | 1.0 | -39.1 | -13.0 | -26.1 | | | |
| 5.7225 | -1.9 | V | 3.0 | 40.8 | 1.0 | -41.7 | -13.0 | -28.7 | | | |
| 7.6300 | -2.3 | V | 3.0 | 40.7 | 1.0 | -41.9 | -13.0 | -28.9 | | | |
| 3.8150 | -8.0 | H | 3.0 | 40.6 | 1.0 | -47.6 | -13.0 | -34.6 | | | |
| 5.7225 | -10.6 | H | 3.0 | 40.8 | 1.0 | -50.4 | -13.0 | -37.4 | | | |
| 7.6300 | -6.6 | H | 3.0 | 40.7 | 1.0 | -46.2 | -13.0 | -33.2 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--------------------------------|----------------|---|-------------------------|------------------|----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| LTE Band 2 3MHz QPSK | Company: | Samsung | | | | | | | | | | |
| | Project #: | 16K22867 | | | | | | | | | | |
| | Date: | 03-03-16 | | | | | | | | | | |
| | Test Engineer: | Steven.Kim | | | | | | | | | | |
| | Configuration: | EUT / AC Adapter / Ear Phone / X-Position | | | | | | | | | | |
| | Mode: | TX, LTE BAND 2, 3MHz BW, QPSK | | | | | | | | | | |
| | | | Chamber | Pre-amplifier | Filter | Limit | | | | | | |
| | | | Chamber 2 | AFS42 | Filter 1 | FCC Part 24 | | | | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (HV) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1851.5MHz) | | | | | | | | | |
| | | 3.7030 | -5.4 | V | 3.0 | 40.5 | 1.0 | -44.9 | -13.0 | -31.9 | | |
| | | 5.5545 | -5.6 | V | 3.0 | 40.8 | 1.0 | -45.4 | -13.0 | -32.4 | | |
| | | 7.4060 | -2.0 | V | 3.0 | 40.8 | 1.0 | -41.8 | -13.0 | -28.8 | | |
| | | 3.7030 | -10.8 | H | 3.0 | 40.5 | 1.0 | -50.3 | -13.0 | -37.3 | | |
| | | 5.5545 | -3.5 | H | 3.0 | 40.8 | 1.0 | -43.3 | -13.0 | -30.3 | | |
| | | 7.4060 | -5.7 | H | 3.0 | 40.8 | 1.0 | -45.5 | -13.0 | -32.5 | | |
| | | Mid Channel (1880MHz) | | | | | | | | | | |
| | | 3.7600 | -2.1 | V | 3.0 | 40.5 | 1.0 | -41.6 | -13.0 | -28.6 | | |
| | | 5.6400 | -2.8 | V | 3.0 | 40.8 | 1.0 | -42.6 | -13.0 | -29.6 | | |
| | | 7.5200 | -2.9 | V | 3.0 | 40.7 | 1.0 | -42.7 | -13.0 | -29.7 | | |
| | | 3.7600 | -8.0 | H | 3.0 | 40.5 | 1.0 | -47.5 | -13.0 | -34.5 | | |
| | | 5.6400 | -2.1 | H | 3.0 | 40.8 | 1.0 | -41.9 | -13.0 | -28.9 | | |
| | | 7.5200 | -5.5 | H | 3.0 | 40.7 | 1.0 | -45.2 | -13.0 | -32.2 | | |
| | | High Channel (1908.5MHz) | | | | | | | | | | |
| | | 3.8170 | 1.8 | V | 3.0 | 40.6 | 1.0 | -37.8 | -13.0 | -24.8 | | |
| | | 5.7255 | 0.3 | V | 3.0 | 40.8 | 1.0 | -39.5 | -13.0 | -26.5 | | |
| | | 7.6340 | -1.0 | V | 3.0 | 40.7 | 1.0 | -40.7 | -13.0 | -27.7 | | |
| | | 3.8170 | -5.3 | H | 3.0 | 40.6 | 1.0 | -44.9 | -13.0 | -31.9 | | |
| | | 5.7255 | -4.9 | H | 3.0 | 40.8 | 1.0 | -44.7 | -13.0 | -31.7 | | |
| | | 7.6340 | -4.5 | H | 3.0 | 40.7 | 1.0 | -44.1 | -13.0 | -31.1 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 2 3MHz 16QAM | Company: | Samsung | | | | | | | | | | |
| | Project #: | 16K22867 | | | | | | | | | | |
| | Date: | 03-03-16 | | | | | | | | | | |
| | Test Engineer: | Steven.Kim | | | | | | | | | | |
| | Configuration: | EUT / AC Adapter / Ear Phone / X-Position | | | | | | | | | | |
| | Mode: | TX, LTE BAND 2, 3MHz BW, 16QAM | | | | | | | | | | |
| | | | Chamber | Pre-amplifier | Filter | Limit | | | | | | |
| | | | Chamber 2 | AFS42 | Filter 1 | FCC Part 24 | | | | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (HV) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1851.5MHz) | | | | | | | | | |
| | | 3.703 | -6.8 | V | 3.0 | 40.5 | 1.0 | -46.3 | -13.0 | -33.3 | | |
| | | 5.555 | -6.8 | V | 3.0 | 40.8 | 1.0 | -46.6 | -13.0 | -33.6 | | |
| | | 7.406 | -3.6 | V | 3.0 | 40.8 | 1.0 | -43.4 | -13.0 | -30.4 | | |
| | | 3.703 | -12.0 | H | 3.0 | 40.5 | 1.0 | -51.5 | -13.0 | -38.5 | | |
| | | 5.555 | -4.7 | H | 3.0 | 40.8 | 1.0 | -44.5 | -13.0 | -31.5 | | |
| | | 7.406 | -6.8 | H | 3.0 | 40.8 | 1.0 | -46.6 | -13.0 | -33.6 | | |
| | | Mid Channel (1880MHz) | | | | | | | | | | |
| | | 3.760 | -3.6 | V | 3.0 | 40.5 | 1.0 | -43.2 | -13.0 | -30.2 | | |
| | | 5.640 | -4.4 | V | 3.0 | 40.8 | 1.0 | -44.2 | -13.0 | -31.2 | | |
| | | 7.520 | -4.0 | V | 3.0 | 40.7 | 1.0 | -43.7 | -13.0 | -30.7 | | |
| | | 3.760 | -9.3 | H | 3.0 | 40.5 | 1.0 | -48.9 | -13.0 | -35.9 | | |
| | | 5.640 | -4.0 | H | 3.0 | 40.8 | 1.0 | -43.8 | -13.0 | -30.8 | | |
| | | 7.520 | -6.7 | H | 3.0 | 40.7 | 1.0 | -46.4 | -13.0 | -33.4 | | |
| | | High Channel (1908.5MHz) | | | | | | | | | | |
| | | 3.817 | 0.1 | V | 3.0 | 40.6 | 1.0 | -39.5 | -13.0 | -26.5 | | |
| | | 5.726 | -1.2 | V | 3.0 | 40.8 | 1.0 | -41.0 | -13.0 | -28.0 | | |
| | | 7.634 | -2.4 | V | 3.0 | 40.7 | 1.0 | -42.0 | -13.0 | -29.0 | | |
| | | 3.817 | -7.1 | H | 3.0 | 40.6 | 1.0 | -46.7 | -13.0 | -33.7 | | |
| | | 5.726 | -6.0 | H | 3.0 | 40.8 | 1.0 | -45.8 | -13.0 | -32.8 | | |
| | | 7.634 | -5.5 | H | 3.0 | 40.7 | 1.0 | -45.2 | -13.0 | -32.2 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| LTE Band 2 1.4MHz QPSK | <p style="text-align: center;">UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement</p> <p>Company: Samsung Project #: 16K22867 Date: 03-03-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 1.4MHz BW,QPSK</p> <p style="text-align: center;"> Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 24 </p> <table border="1"> <thead> <tr> <th>f GHz</th> <th>SGreading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Channel (1850.7MHz)</td></tr> <tr><td>3.7014</td><td>-5.6</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr> <tr><td>5.5521</td><td>-5.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr> <tr><td>7.4028</td><td>-1.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-41.4</td><td>-13.0</td><td>-28.4</td><td></td></tr> <tr><td>3.7014</td><td>-10.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.4</td><td>-13.0</td><td>-37.4</td><td></td></tr> <tr><td>5.5521</td><td>-10.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr> <tr><td>7.4028</td><td>-7.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>-1.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-41.3</td><td>-13.0</td><td>-28.3</td><td></td></tr> <tr><td>5.6400</td><td>-3.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr> <tr><td>7.5200</td><td>-1.8</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-41.6</td><td>-13.0</td><td>-28.6</td><td></td></tr> <tr><td>3.7600</td><td>-8.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr> <tr><td>5.6400</td><td>-9.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.2</td><td>-13.0</td><td>-36.2</td><td></td></tr> <tr><td>7.5200</td><td>-5.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr> <tr><td colspan="10">High Channel (1909.3MHz)</td></tr> <tr><td>3.8186</td><td>2.9</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-36.7</td><td>-13.0</td><td>-23.7</td><td></td></tr> <tr><td>5.7279</td><td>1.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-38.6</td><td>-13.0</td><td>-25.6</td><td></td></tr> <tr><td>7.6372</td><td>-1.4</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-41.0</td><td>-13.0</td><td>-28.0</td><td></td></tr> <tr><td>3.8186</td><td>-5.6</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.2</td><td>-13.0</td><td>-32.2</td><td></td></tr> <tr><td>5.7279</td><td>-9.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.9</td><td>-13.0</td><td>-35.9</td><td></td></tr> <tr><td>7.6372</td><td>-6.4</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr> </tbody> </table> <p>Rev.03.03.09 Note: No other emissions were detected above the system noise floor.</p> | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (1850.7MHz) | | | | | | | | | | 3.7014 | -5.6 | V | 3.0 | 40.5 | 1.0 | -45.1 | -13.0 | -32.1 | | 5.5521 | -5.9 | V | 3.0 | 40.8 | 1.0 | -45.7 | -13.0 | -32.7 | | 7.4028 | -1.6 | V | 3.0 | 40.8 | 1.0 | -41.4 | -13.0 | -28.4 | | 3.7014 | -10.9 | H | 3.0 | 40.5 | 1.0 | -50.4 | -13.0 | -37.4 | | 5.5521 | -10.0 | H | 3.0 | 40.8 | 1.0 | -49.9 | -13.0 | -36.9 | | 7.4028 | -7.0 | H | 3.0 | 40.8 | 1.0 | -46.8 | -13.0 | -33.8 | | Mid Channel (1880MHz) | | | | | | | | | | 3.7600 | -1.8 | V | 3.0 | 40.5 | 1.0 | -41.3 | -13.0 | -28.3 | | 5.6400 | -3.2 | V | 3.0 | 40.8 | 1.0 | -43.0 | -13.0 | -30.0 | | 7.5200 | -1.8 | V | 3.0 | 40.7 | 1.0 | -41.6 | -13.0 | -28.6 | | 3.7600 | -8.2 | H | 3.0 | 40.5 | 1.0 | -47.7 | -13.0 | -34.7 | | 5.6400 | -9.4 | H | 3.0 | 40.8 | 1.0 | -49.2 | -13.0 | -36.2 | | 7.5200 | -5.9 | H | 3.0 | 40.7 | 1.0 | -45.7 | -13.0 | -32.7 | | High Channel (1909.3MHz) | | | | | | | | | | 3.8186 | 2.9 | V | 3.0 | 40.6 | 1.0 | -36.7 | -13.0 | -23.7 | | 5.7279 | 1.2 | V | 3.0 | 40.8 | 1.0 | -38.6 | -13.0 | -25.6 | | 7.6372 | -1.4 | V | 3.0 | 40.7 | 1.0 | -41.0 | -13.0 | -28.0 | | 3.8186 | -5.6 | H | 3.0 | 40.6 | 1.0 | -45.2 | -13.0 | -32.2 | | 5.7279 | -9.1 | H | 3.0 | 40.8 | 1.0 | -48.9 | -13.0 | -35.9 | | 7.6372 | -6.4 | H | 3.0 | 40.7 | 1.0 | -46.1 | -13.0 | -33.1 | |
|----------------------------------|---|-----------------|-----------------|-----------------|--------------|-------------|-------------|-------------|-------------|------------|-------|-------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|-----------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------------------------|--|--|--|--|--|--|--|--|--|--------|-----|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Channel (1850.7MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7014 | -5.6 | V | 3.0 | 40.5 | 1.0 | -45.1 | -13.0 | -32.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5521 | -5.9 | V | 3.0 | 40.8 | 1.0 | -45.7 | -13.0 | -32.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4028 | -1.6 | V | 3.0 | 40.8 | 1.0 | -41.4 | -13.0 | -28.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7014 | -10.9 | H | 3.0 | 40.5 | 1.0 | -50.4 | -13.0 | -37.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5521 | -10.0 | H | 3.0 | 40.8 | 1.0 | -49.9 | -13.0 | -36.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4028 | -7.0 | H | 3.0 | 40.8 | 1.0 | -46.8 | -13.0 | -33.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Channel (1880MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -1.8 | V | 3.0 | 40.5 | 1.0 | -41.3 | -13.0 | -28.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -3.2 | V | 3.0 | 40.8 | 1.0 | -43.0 | -13.0 | -30.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -1.8 | V | 3.0 | 40.7 | 1.0 | -41.6 | -13.0 | -28.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -8.2 | H | 3.0 | 40.5 | 1.0 | -47.7 | -13.0 | -34.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -9.4 | H | 3.0 | 40.8 | 1.0 | -49.2 | -13.0 | -36.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -5.9 | H | 3.0 | 40.7 | 1.0 | -45.7 | -13.0 | -32.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (1909.3MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8186 | 2.9 | V | 3.0 | 40.6 | 1.0 | -36.7 | -13.0 | -23.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7279 | 1.2 | V | 3.0 | 40.8 | 1.0 | -38.6 | -13.0 | -25.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6372 | -1.4 | V | 3.0 | 40.7 | 1.0 | -41.0 | -13.0 | -28.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8186 | -5.6 | H | 3.0 | 40.6 | 1.0 | -45.2 | -13.0 | -32.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7279 | -9.1 | H | 3.0 | 40.8 | 1.0 | -48.9 | -13.0 | -35.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6372 | -6.4 | H | 3.0 | 40.7 | 1.0 | -46.1 | -13.0 | -33.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Band 2 1.4MHz 16QAM | <p style="text-align: center;">UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement</p> <p>Company: Samsung Project #: 16K22867 Date: 03-03-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 1.4MHz BW,16QAM</p> <p style="text-align: center;"> Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 24 </p> <table border="1"> <thead> <tr> <th>f GHz</th> <th>SGreading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Channel (1850.7MHz)</td></tr> <tr><td>3.7014</td><td>-7.2</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr> <tr><td>5.5521</td><td>-7.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.1</td><td>-13.0</td><td>-34.1</td><td></td></tr> <tr><td>7.4028</td><td>-2.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.6</td><td>-13.0</td><td>-29.6</td><td></td></tr> <tr><td>3.7014</td><td>-12.0</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr> <tr><td>5.5521</td><td>-10.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr> <tr><td>7.4028</td><td>-7.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>-3.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.1</td><td>-13.0</td><td>-30.1</td><td></td></tr> <tr><td>5.6400</td><td>-4.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.4</td><td>-13.0</td><td>-31.4</td><td></td></tr> <tr><td>7.5200</td><td>-3.3</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr> <tr><td>3.7600</td><td>-9.3</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.8</td><td>-13.0</td><td>-35.8</td><td></td></tr> <tr><td>5.6400</td><td>-11.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>7.5200</td><td>-7.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr> <tr><td colspan="10">High Channel (1909.3MHz)</td></tr> <tr><td>3.8186</td><td>1.9</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-37.7</td><td>-13.0</td><td>-24.7</td><td></td></tr> <tr><td>5.7279</td><td>-0.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-40.6</td><td>-13.0</td><td>-27.6</td><td></td></tr> <tr><td>7.6372</td><td>-2.7</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-42.3</td><td>-13.0</td><td>-29.3</td><td></td></tr> <tr><td>3.8186</td><td>-7.0</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr> <tr><td>5.7279</td><td>-10.6</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.4</td><td>-13.0</td><td>-37.4</td><td></td></tr> <tr><td>7.6372</td><td>-7.5</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr> </tbody> </table> <p>Rev.03.03.09 Note: No other emissions were detected above the system noise floor.</p> | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (1850.7MHz) | | | | | | | | | | 3.7014 | -7.2 | V | 3.0 | 40.5 | 1.0 | -46.7 | -13.0 | -33.7 | | 5.5521 | -7.3 | V | 3.0 | 40.8 | 1.0 | -47.1 | -13.0 | -34.1 | | 7.4028 | -2.9 | V | 3.0 | 40.8 | 1.0 | -42.6 | -13.0 | -29.6 | | 3.7014 | -12.0 | H | 3.0 | 40.5 | 1.0 | -51.4 | -13.0 | -38.4 | | 5.5521 | -10.7 | H | 3.0 | 40.8 | 1.0 | -50.5 | -13.0 | -37.5 | | 7.4028 | -7.8 | H | 3.0 | 40.8 | 1.0 | -47.6 | -13.0 | -34.6 | | Mid Channel (1880MHz) | | | | | | | | | | 3.7600 | -3.5 | V | 3.0 | 40.5 | 1.0 | -43.1 | -13.0 | -30.1 | | 5.6400 | -4.6 | V | 3.0 | 40.8 | 1.0 | -44.4 | -13.0 | -31.4 | | 7.5200 | -3.3 | V | 3.0 | 40.7 | 1.0 | -43.0 | -13.0 | -30.0 | | 3.7600 | -9.3 | H | 3.0 | 40.5 | 1.0 | -48.8 | -13.0 | -35.8 | | 5.6400 | -11.1 | H | 3.0 | 40.8 | 1.0 | -50.9 | -13.0 | -37.9 | | 7.5200 | -7.3 | H | 3.0 | 40.7 | 1.0 | -47.0 | -13.0 | -34.0 | | High Channel (1909.3MHz) | | | | | | | | | | 3.8186 | 1.9 | V | 3.0 | 40.6 | 1.0 | -37.7 | -13.0 | -24.7 | | 5.7279 | -0.8 | V | 3.0 | 40.8 | 1.0 | -40.6 | -13.0 | -27.6 | | 7.6372 | -2.7 | V | 3.0 | 40.7 | 1.0 | -42.3 | -13.0 | -29.3 | | 3.8186 | -7.0 | H | 3.0 | 40.6 | 1.0 | -46.6 | -13.0 | -33.6 | | 5.7279 | -10.6 | H | 3.0 | 40.8 | 1.0 | -50.4 | -13.0 | -37.4 | | 7.6372 | -7.5 | H | 3.0 | 40.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Channel (1850.7MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7014 | -7.2 | V | 3.0 | 40.5 | 1.0 | -46.7 | -13.0 | -33.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5521 | -7.3 | V | 3.0 | 40.8 | 1.0 | -47.1 | -13.0 | -34.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4028 | -2.9 | V | 3.0 | 40.8 | 1.0 | -42.6 | -13.0 | -29.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7014 | -12.0 | H | 3.0 | 40.5 | 1.0 | -51.4 | -13.0 | -38.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5521 | -10.7 | H | 3.0 | 40.8 | 1.0 | -50.5 | -13.0 | -37.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4028 | -7.8 | H | 3.0 | 40.8 | 1.0 | -47.6 | -13.0 | -34.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Channel (1880MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -3.5 | V | 3.0 | 40.5 | 1.0 | -43.1 | -13.0 | -30.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -4.6 | V | 3.0 | 40.8 | 1.0 | -44.4 | -13.0 | -31.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -3.3 | V | 3.0 | 40.7 | 1.0 | -43.0 | -13.0 | -30.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -9.3 | H | 3.0 | 40.5 | 1.0 | -48.8 | -13.0 | -35.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -11.1 | H | 3.0 | 40.8 | 1.0 | -50.9 | -13.0 | -37.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -7.3 | H | 3.0 | 40.7 | 1.0 | -47.0 | -13.0 | -34.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (1909.3MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8186 | 1.9 | V | 3.0 | 40.6 | 1.0 | -37.7 | -13.0 | -24.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7279 | -0.8 | V | 3.0 | 40.8 | 1.0 | -40.6 | -13.0 | -27.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6372 | -2.7 | V | 3.0 | 40.7 | 1.0 | -42.3 | -13.0 | -29.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8186 | -7.0 | H | 3.0 | 40.6 | 1.0 | -46.6 | -13.0 | -33.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7279 | -10.6 | H | 3.0 | 40.8 | 1.0 | -50.4 | -13.0 | -37.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6372 | -7.5 | H | 3.0 | 40.7 | 1.0 | -47.2 | -13.0 | -34.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |