

Test Band = NR UL CA n25A-n77A 3700M-3980M_ TM1

Test Channel = Mid Channel

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3729.18 | 33.49 | -87.02 | -53.53 | -13.00 | 40.53 | 163 | 163 | Horizontal |
| 2 | 5593.77 | 50.55 | -105.40 | -54.85 | -13.00 | 41.85 | 254 | 156 | Horizontal |
| 3 | 7458.36 | 47.86 | -100.54 | -52.68 | -13.00 | 39.68 | 188 | 356 | Horizontal |
| 4 | 7590.18 | 49.05 | -99.85 | -50.80 | -13.00 | 37.80 | 163 | 206 | Horizontal |
| 5 | 11835.27 | 43.42 | -91.75 | -48.33 | -13.00 | 35.33 | 251 | 266 | Horizontal |
| 6 | 15180.36 | 42.76 | -89.91 | -47.15 | -13.00 | 34.15 | 174 | 277 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3729.18 | 34.46 | -87.02 | -52.56 | -13.00 | 39.56 | 142 | 104 | Vertical |
| 2 | 5593.77 | 50.52 | -105.40 | -54.88 | -13.00 | 41.88 | 263 | 208 | Vertical |
| 3 | 7458.36 | 48.02 | -100.54 | -52.52 | -13.00 | 39.52 | 254 | 15 | Vertical |
| 4 | 7590.18 | 49.06 | -99.85 | -50.79 | -13.00 | 37.79 | 185 | 93 | Vertical |
| 5 | 11835.27 | 42.89 | -91.75 | -48.86 | -13.00 | 35.86 | 265 | 74 | Vertical |
| 6 | 15180.36 | 42.25 | -89.91 | -47.66 | -13.00 | 34.66 | 241 | 329 | Vertical |



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Test Band = NR UL CA n25A-n77A 3700M-3980M_ TM1

Test Channel = High Channel

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3754.18 | 34.90 | -86.80 | -51.90 | -13.00 | 38.90 | 142 | 323 | Horizontal |
| 2 | 5631.27 | 50.74 | -105.28 | -54.54 | -13.00 | 41.54 | 263 | 186 | Horizontal |
| 3 | 7508.36 | 48.76 | -100.30 | -51.54 | -13.00 | 38.54 | 251 | 226 | Horizontal |
| 4 | 7870.18 | 46.74 | -98.77 | -52.03 | -13.00 | 39.03 | 174 | 195 | Horizontal |
| 5 | 11805.27 | 43.43 | -91.86 | -48.43 | -13.00 | 35.43 | 186 | 76 | Horizontal |
| 6 | 15740.36 | 42.64 | -90.73 | -48.09 | -13.00 | 35.09 | 255 | 65 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3754.18 | 34.53 | -86.80 | -52.27 | -13.00 | 39.27 | 142 | 78 | Vertical |
| 2 | 5631.27 | 50.13 | -105.28 | -55.15 | -13.00 | 42.15 | 263 | 280 | Vertical |
| 3 | 7508.36 | 48.72 | -100.30 | -51.58 | -13.00 | 38.58 | 254 | 209 | Vertical |
| 4 | 7870.18 | 47.26 | -98.77 | -51.51 | -13.00 | 38.51 | 175 | 178 | Vertical |
| 5 | 11805.27 | 43.95 | -91.86 | -47.91 | -13.00 | 34.91 | 265 | 0 | Vertical |
| 6 | 15740.36 | 42.33 | -90.73 | -48.40 | -13.00 | 35.40 | 218 | 16 | Vertical |



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Test Band = NR UL CA n13A-n77A 3700M-3980M_ TM1

Test Channel = Low Channel

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1554.68 | 39.40 | -95.18 | -55.78 | -13.00 | 42.78 | 163 | 360 | Horizontal |
| 2 | 2332.02 | 38.36 | -92.24 | -53.88 | -13.00 | 40.88 | 274 | 175 | Horizontal |
| 3 | 3109.36 | 37.38 | -88.89 | -51.51 | -13.00 | 38.51 | 166 | 11 | Horizontal |
| 4 | 7310.18 | 47.85 | -100.63 | -52.78 | -13.00 | 39.78 | 254 | 147 | Horizontal |
| 5 | 10965.27 | 43.33 | -91.32 | -47.99 | -13.00 | 34.99 | 196 | 238 | Horizontal |
| 6 | 14620.36 | 42.04 | -89.81 | -47.77 | -13.00 | 34.77 | 264 | 347 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1554.68 | 40.15 | -95.18 | -55.03 | -13.00 | 42.03 | 262 | 273 | Vertical |
| 2 | 2332.02 | 38.67 | -92.24 | -53.57 | -13.00 | 40.57 | 241 | 70 | Vertical |
| 3 | 3109.36 | 37.19 | -88.89 | -51.70 | -13.00 | 38.70 | 175 | 3 | Vertical |
| 4 | 7310.18 | 48.43 | -100.63 | -52.20 | -13.00 | 39.20 | 284 | 328 | Vertical |
| 5 | 10965.27 | 41.96 | -91.32 | -49.36 | -13.00 | 36.36 | 221 | 93 | Vertical |
| 6 | 14620.36 | 41.17 | -89.81 | -48.64 | -13.00 | 35.64 | 145 | 74 | Vertical |



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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Test Band = NR UL CA n13A-n77A 3700M-3980M_ TM1
Test Channel = Mid Channel

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1559.68 | 39.33 | -95.17 | -55.84 | -13.00 | 42.84 | 263 | 284 | Horizontal |
| 2 | 2339.52 | 38.94 | -92.21 | -53.27 | -13.00 | 40.27 | 185 | 360 | Horizontal |
| 3 | 3119.36 | 37.77 | -88.84 | -51.07 | -13.00 | 38.07 | 196 | 236 | Horizontal |
| 4 | 7590.18 | 49.30 | -99.85 | -50.55 | -13.00 | 37.55 | 241 | 287 | Horizontal |
| 5 | 11835.27 | 43.95 | -91.75 | -47.80 | -13.00 | 34.80 | 175 | 317 | Horizontal |
| 6 | 15180.36 | 42.59 | -89.91 | -47.32 | -13.00 | 34.32 | 142 | 277 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1559.68 | 39.74 | -95.17 | -55.43 | -13.00 | 42.43 | 142 | 103 | Vertical |
| 2 | 2339.52 | 39.33 | -92.21 | -52.88 | -13.00 | 39.88 | 241 | 49 | Vertical |
| 3 | 3119.36 | 37.38 | -88.84 | -51.46 | -13.00 | 38.46 | 142 | 42 | Vertical |
| 4 | 7590.18 | 49.46 | -99.85 | -50.39 | -13.00 | 37.39 | 263 | 0 | Vertical |
| 5 | 11835.27 | 42.32 | -91.75 | -49.43 | -13.00 | 36.43 | 106 | 278 | Vertical |
| 6 | 15180.36 | 42.60 | -89.91 | -47.31 | -13.00 | 34.31 | 302 | 0 | Vertical |



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Test Band = NR UL CA n13A-n77A 3700M-3980M_ TM1
Test Channel = High Channel

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1564.68 | 40.16 | -95.16 | -55.00 | -13.00 | 42.00 | 142 | 3 | Horizontal |
| 2 | 2347.02 | 38.82 | -92.18 | -53.36 | -13.00 | 40.36 | 263 | 348 | Horizontal |
| 3 | 3129.36 | 37.37 | -88.79 | -51.42 | -13.00 | 38.42 | 284 | 95 | Horizontal |
| 4 | 7870.18 | 47.22 | -98.77 | -51.55 | -13.00 | 38.55 | 176 | 279 | Horizontal |
| 5 | 11805.27 | 43.23 | -91.86 | -48.63 | -13.00 | 35.63 | 253 | 4 | Horizontal |
| 6 | 15740.36 | 43.05 | -90.73 | -47.68 | -13.00 | 34.68 | 254 | 156 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1564.68 | 39.13 | -95.16 | -56.03 | -13.00 | 43.03 | 142 | 221 | Vertical |
| 2 | 2347.02 | 38.60 | -92.18 | -53.58 | -13.00 | 40.58 | 263 | 70 | Vertical |
| 3 | 3129.36 | 36.90 | -88.79 | -51.89 | -13.00 | 38.89 | 284 | 360 | Vertical |
| 4 | 7870.18 | 47.09 | -98.77 | -51.68 | -13.00 | 38.68 | 175 | 357 | Vertical |
| 5 | 11805.27 | 43.66 | -91.86 | -48.20 | -13.00 | 35.20 | 263 | 225 | Vertical |
| 6 | 15740.36 | 42.89 | -90.73 | -47.84 | -13.00 | 34.84 | 241 | 236 | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

| Voltage | | | | | | | | | | |
|---------------|------|-----------|-------------|---------|-------------|---------|-------------|---------------|-----------------|---------|
| Band | SC S | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Fu II | VH | NT | 9.100000 | 0.002370 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Fu II | VN | NT | 25.200000 | 0.006563 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Fu II | VL | NT | 12.900000 | 0.003359 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Fu II | VH | NT | 8.900000 | 0.002318 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Fu II | VN | NT | 14.600000 | 0.003802 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Fu II | VL | NT | 13.900000 | 0.003620 | PASS |



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 Wireless Laboratory

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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Frequency Error VS. Temperature

| Temperature | | | | | | | | | | |
|---------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | -30 | 9.200000 | 0.002396 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | -20 | 7.400000 | 0.001927 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | -10 | 13.300000 | 0.003464 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 0 | 14.600000 | 0.003802 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 10 | 15.200000 | 0.003958 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 20 | 7.500000 | 0.001953 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 30 | 11.700000 | 0.003047 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 40 | 16.000000 | 0.004167 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 50 | 12.800000 | 0.003333 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | -30 | 13.900000 | 0.003620 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | -20 | 6.800000 | 0.001771 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | -10 | 9.200000 | 0.002396 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 0 | 5.300000 | 0.001380 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 10 | 3.500000 | 0.000911 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 20 | 15.800000 | 0.004115 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 30 | 12.200000 | 0.003177 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 40 | 6.200000 | 0.001615 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 50 | 13.700000 | 0.003568 | PASS |



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Test Result for MIMO

Frequency Error VS. Voltage

| Voltage | | | | | | | | | | |
|---------------|-----|------------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band | SCS | Band width | Modulation | Channel | RB Config | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | VH | NT | -7.100000 | -0.003242 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | VN | NT | -6.500000 | -0.006352 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | VL | NT | 12.200000 | 0.004712 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | VH | NT | -6.100000 | -0.003257 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | VN | NT | -12.400000 | -0.003658 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | VL | NT | -13.500000 | -0.003657 | PASS |

Frequency Error VS. Temperature

| Temperature | | | | | | | | | | |
|---------------|-----|------------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band | SCS | Band width | Modulation | Channel | RB Config | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | -30 | -7.200000 | -0.002563 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | -20 | -10.500000 | -0.002736 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | -10 | 14.500000 | 0.003752 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 0 | -8.200000 | -0.002234 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 10 | -15.500000 | -0.004063 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 20 | -19.500000 | -0.005134 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 30 | -6.200000 | -0.001533 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 40 | 13.500000 | 0.003456 | PASS |
| N77-3700-3980 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | NV | 50 | -5.700000 | -0.001512 | PASS |



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 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南座 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



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|---------------|----|-----|---------|---|------------|----|-----|------------|-----------|------|
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | -30 | -9.200000 | -0.002325 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | -20 | -20.200000 | -0.005352 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | -10 | -12.200000 | -0.003254 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 0 | -8.700000 | -0.002235 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 10 | -8.200000 | -0.002123 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 20 | -10.300000 | -0.002744 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 30 | -14.200000 | -0.003732 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 40 | -7.500000 | -0.002025 | PASS |
| N77-3700-3980 | 30 | 100 | CP-QPSK | M | Outer_Full | NV | 50 | 10.200000 | 0.002563 | PASS |

---End of Attachment---



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com