

APPENDIX REPORT

| | | | |
|-----------------|-----------------|---------------------|--------------|
| Project No. | SHT2009039901EW | Radio Specification | WCDMA |
| Test sample No. | YPHT20090399004 | Model No. | AX751+ |
| Start test date | 2020/9/14 | Finish date | 2020/9/14 |
| Temperature | 25°C | Humidity | 50% |
| Test Engineer | Caspar Chen | Auditor | Xiaodong Zhu |

| Appendix clause | Test item | Result |
|-----------------|--|--------|
| A | Conducted Output Power | PASS |
| B | Peak-to-Average Ratio | PASS |
| C | 26 dB Bandwidth and Occupied Bandwidth | PASS |
| D | Band edge | PASS |
| E | Conducted Spurious Emission | PASS |
| F | Frequency Stability | PASS |

8.1 Appendix A: Conducted Output Power

Test Result

| Band | Channel | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|---------|
| Band II | 9262 | 22.91 | 33 | PASS |
| Band II | 9400 | 23.28 | 33 | PASS |
| Band II | 9538 | 23.13 | 33 | PASS |
| Band V | 4132 | 23.26 | 38.5 | PASS |
| Band V | 4182 | 22.97 | 38.5 | PASS |
| Band V | 4233 | 23.23 | 38.5 | PASS |

| Band | Channel | SubTest | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|------------|---------|
| Band II | 9262 | HSDPA_Sub1 | 21.75 | 33 | PASS |
| Band II | 9262 | HSDPA_Sub2 | 21.45 | 33 | PASS |
| Band II | 9262 | HSDPA_Sub3 | 21.17 | 33 | PASS |
| Band II | 9262 | HSDPA_Sub4 | 21.01 | 33 | PASS |
| Band II | 9400 | HSDPA_Sub1 | 23.35 | 33 | PASS |
| Band II | 9400 | HSDPA_Sub2 | 23.10 | 33 | PASS |
| Band II | 9400 | HSDPA_Sub3 | 22.75 | 33 | PASS |
| Band II | 9400 | HSDPA_Sub4 | 22.60 | 33 | PASS |
| Band II | 9538 | HSDPA_Sub1 | 23.06 | 33 | PASS |
| Band II | 9538 | HSDPA_Sub2 | 22.64 | 33 | PASS |
| Band II | 9538 | HSDPA_Sub3 | 22.39 | 33 | PASS |
| Band II | 9538 | HSDPA_Sub4 | 22.27 | 33 | PASS |
| Band V | 4132 | HSDPA_Sub1 | 22.52 | 38.5 | PASS |
| Band V | 4132 | HSDPA_Sub2 | 22.66 | 38.5 | PASS |
| Band V | 4132 | HSDPA_Sub3 | 21.92 | 38.5 | PASS |
| Band V | 4132 | HSDPA_Sub4 | 21.90 | 38.5 | PASS |
| Band V | 4182 | HSDPA_Sub1 | 22.09 | 38.5 | PASS |
| Band V | 4182 | HSDPA_Sub2 | 22.28 | 38.5 | PASS |
| Band V | 4182 | HSDPA_Sub3 | 21.49 | 38.5 | PASS |
| Band V | 4182 | HSDPA_Sub4 | 21.49 | 38.5 | PASS |
| Band V | 4233 | HSDPA_Sub1 | 22.17 | 38.5 | PASS |
| Band V | 4233 | HSDPA_Sub2 | 22.46 | 38.5 | PASS |
| Band V | 4233 | HSDPA_Sub3 | 21.60 | 38.5 | PASS |
| Band V | 4233 | HSDPA_Sub4 | 21.70 | 38.5 | PASS |

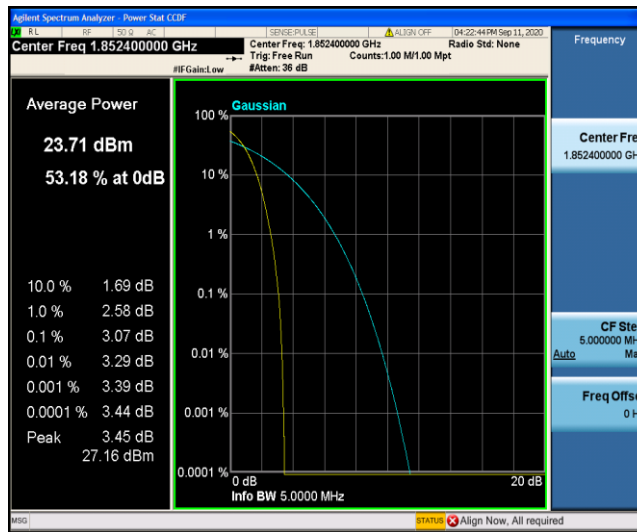
| Band | Channel | SubTest | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|------------|---------|
| Band II | 9262 | HSUPA_Sub1 | 18.85 | 33 | PASS |
| Band II | 9262 | HSUPA_Sub2 | 18.90 | 33 | PASS |
| Band II | 9262 | HSUPA_Sub3 | 18.70 | 33 | PASS |
| Band II | 9262 | HSUPA_Sub4 | 18.97 | 33 | PASS |
| Band II | 9262 | HSUPA_Sub5 | 22.11 | 33 | PASS |
| Band II | 9400 | HSUPA_Sub1 | 20.12 | 33 | PASS |
| Band II | 9400 | HSUPA_Sub2 | 20.38 | 33 | PASS |
| Band II | 9400 | HSUPA_Sub3 | 20.09 | 33 | PASS |
| Band II | 9400 | HSUPA_Sub4 | 20.50 | 33 | PASS |
| Band II | 9400 | HSUPA_Sub5 | 23.46 | 33 | PASS |
| Band II | 9538 | HSUPA_Sub1 | 20.01 | 33 | PASS |
| Band II | 9538 | HSUPA_Sub2 | 20.19 | 33 | PASS |
| Band II | 9538 | HSUPA_Sub3 | 19.89 | 33 | PASS |
| Band II | 9538 | HSUPA_Sub4 | 20.31 | 33 | PASS |
| Band II | 9538 | HSUPA_Sub5 | 23.22 | 33 | PASS |
| Band V | 4132 | HSUPA_Sub1 | 19.06 | 38.5 | PASS |
| Band V | 4132 | HSUPA_Sub2 | 19.17 | 38.5 | PASS |
| Band V | 4132 | HSUPA_Sub3 | 19.31 | 38.5 | PASS |
| Band V | 4132 | HSUPA_Sub4 | 19.28 | 38.5 | PASS |
| Band V | 4132 | HSUPA_Sub5 | 22.73 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub1 | 18.53 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub2 | 18.63 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub3 | 18.79 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub4 | 18.75 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub5 | 22.32 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub1 | 18.81 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub2 | 18.96 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub3 | 19.05 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub4 | 19.07 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub5 | 22.63 | 38.5 | PASS |

8.2 Appendix B: Peak-to-Average Ratio

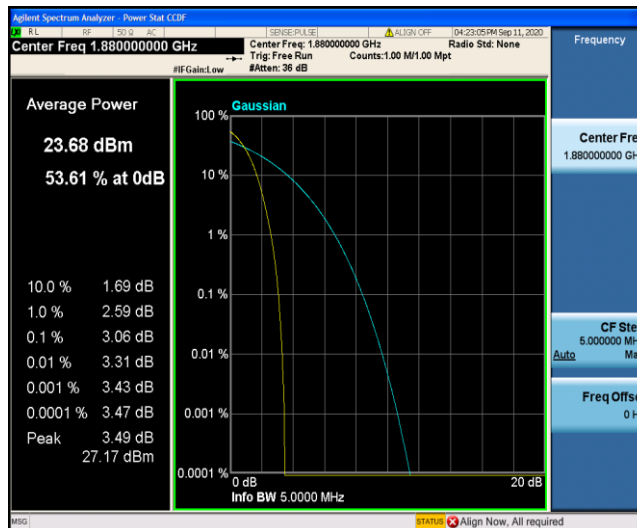
Test Result

| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---------|---------|---------------------------|-----------|---------|
| Band II | 9262 | 3.07 | 13 | PASS |
| Band II | 9400 | 3.06 | 13 | PASS |
| Band II | 9538 | 2.98 | 13 | PASS |
| Band V | 4132 | 2.95 | 13 | PASS |
| Band V | 4182 | 2.94 | 13 | PASS |
| Band V | 4233 | 3.09 | 13 | PASS |

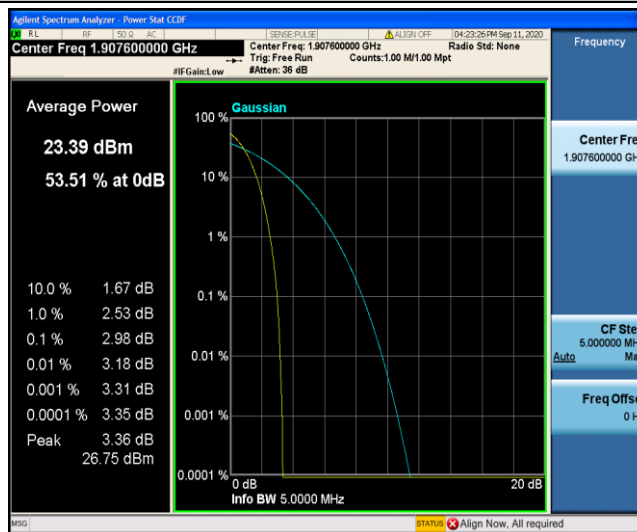
Test Graphs



Band II_9262



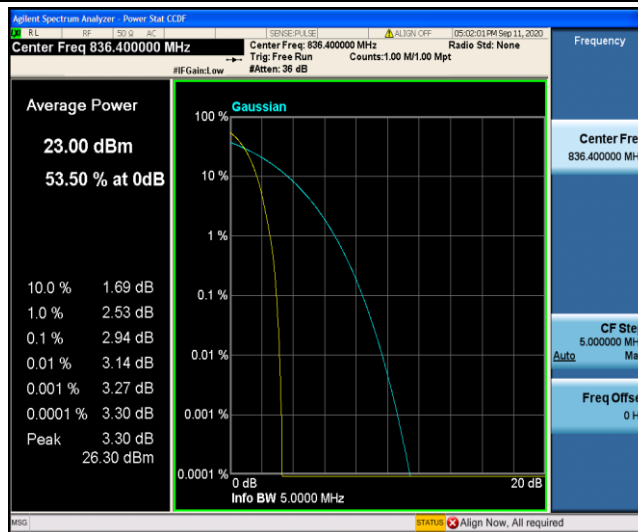
Band II_9400



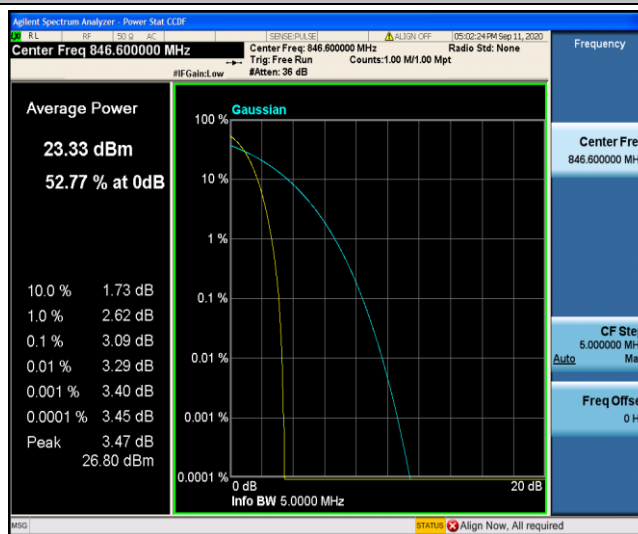
Band II_9538



Band V_4132



Band V_4182



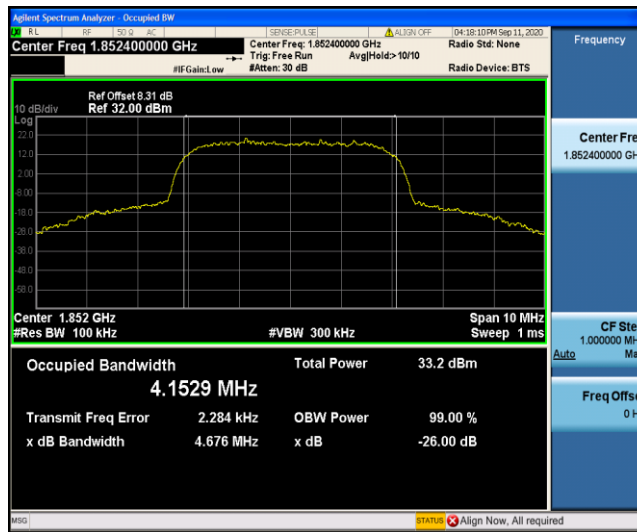
Band V_4233

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

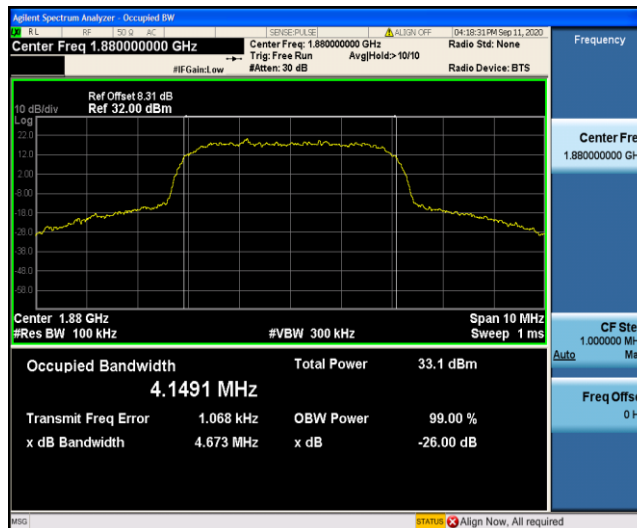
Test Result

| Band | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|---------|---------|--------------------------|----------------------|------------|---------|
| Band II | 9262 | 4152.9 | 4676 | --- | PASS |
| Band II | 9400 | 4149.1 | 4673 | --- | PASS |
| Band II | 9538 | 4138.0 | 4683 | --- | PASS |
| Band V | 4132 | 4159.9 | 4682 | --- | PASS |
| Band V | 4182 | 4146.7 | 4674 | --- | PASS |
| Band V | 4233 | 4156.7 | 4682 | --- | PASS |

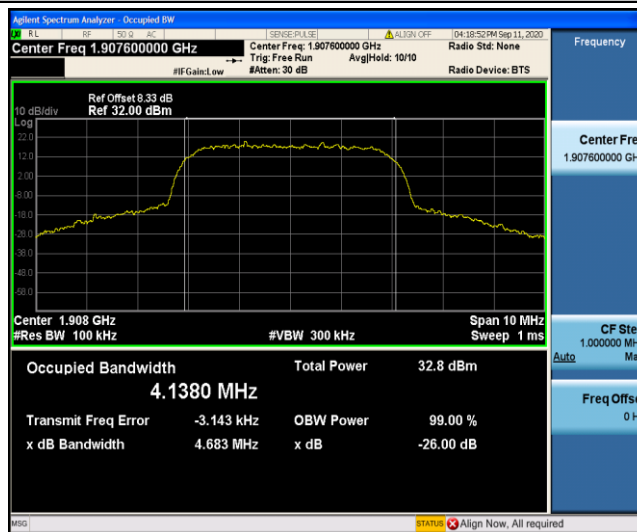
Test Graphs



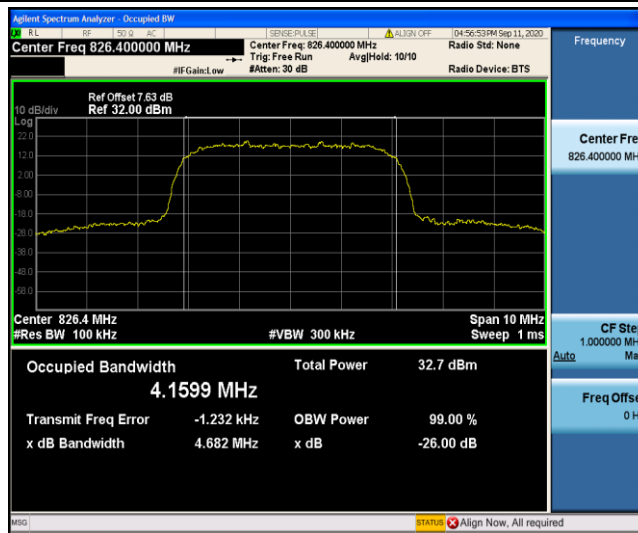
Band II_9262



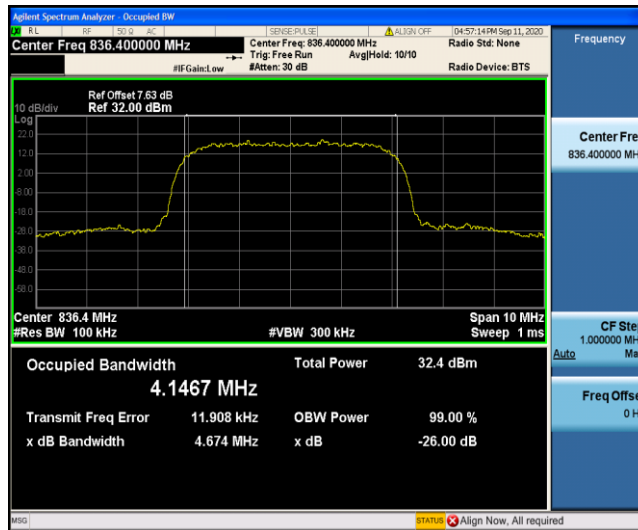
Band II_9400



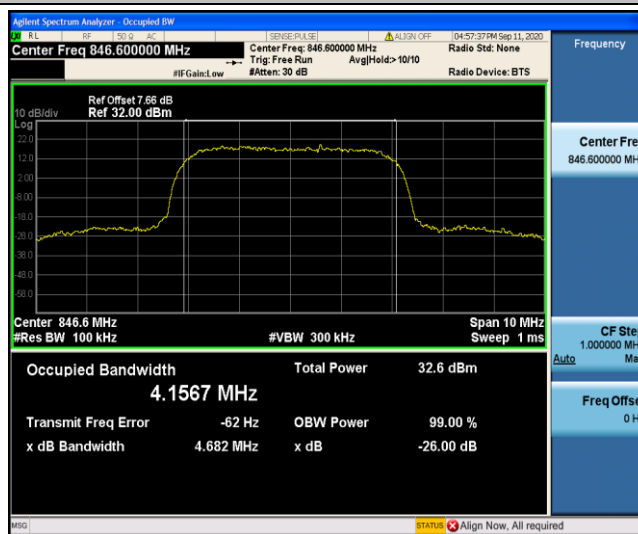
Band II_9538



Band V_4132



Band V_4182



Band V_4233

8.4 Appendix D: Band Edge

Test Result

| Band | Channel | Value(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|---------|
| Band II | 9262 | -19.98 | -13 | PASS |
| Band II | 9538 | -21.68 | -13 | PASS |
| Band V | 4132 | -24.33 | -13 | PASS |
| Band V | 4233 | -26.32 | -13 | PASS |

Test Graphs



Band II_9262



Band II_9538



Band V_4132



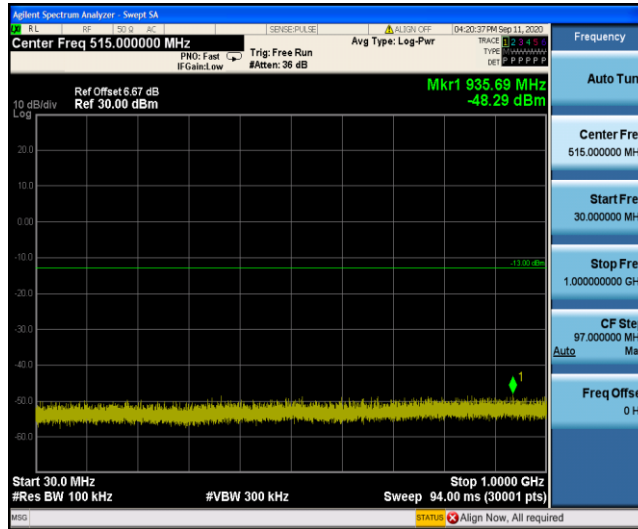
Band V_4233

8.5 Appendix E: Conducted Spurious Emission

Test Result

| Band | Channel | Frequency Rang(Mhz) | Value(dBm) | Limit(dBm) | Verdict |
|---------|---------|---------------------|------------|------------|---------|
| Band II | 9262 | 30~1000 | -48.29 | -13 | PASS |
| Band II | 9262 | 1000~20000 | -26.37 | -13 | PASS |
| Band II | 9400 | 30~1000 | -47.86 | -13 | PASS |
| Band II | 9400 | 1000~20000 | -26.69 | -13 | PASS |
| Band II | 9538 | 30~1000 | -47.40 | -13 | PASS |
| Band II | 9538 | 1000~20000 | -26.52 | -13 | PASS |
| Band V | 4132 | 30~1000 | -48.34 | -13 | PASS |
| Band V | 4132 | 1000~10000 | -32.77 | -13 | PASS |
| Band V | 4182 | 30~1000 | -48.26 | -13 | PASS |
| Band V | 4182 | 1000~10000 | -32.62 | -13 | PASS |
| Band V | 4233 | 30~1000 | -48.34 | -13 | PASS |
| Band V | 4233 | 1000~10000 | -32.87 | -13 | PASS |

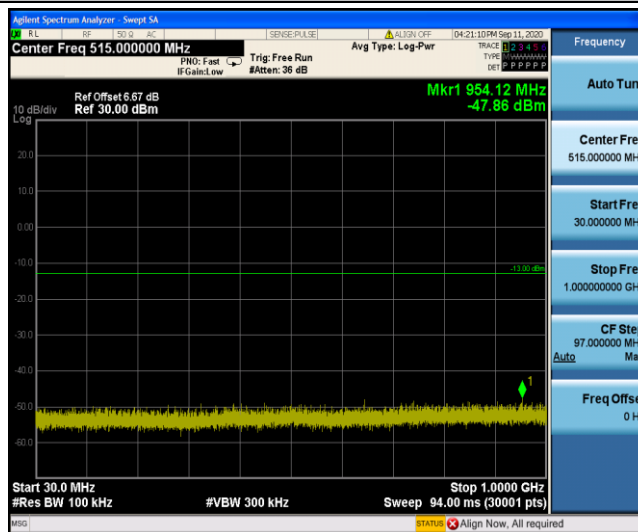
Test Graphs



Band II_9262



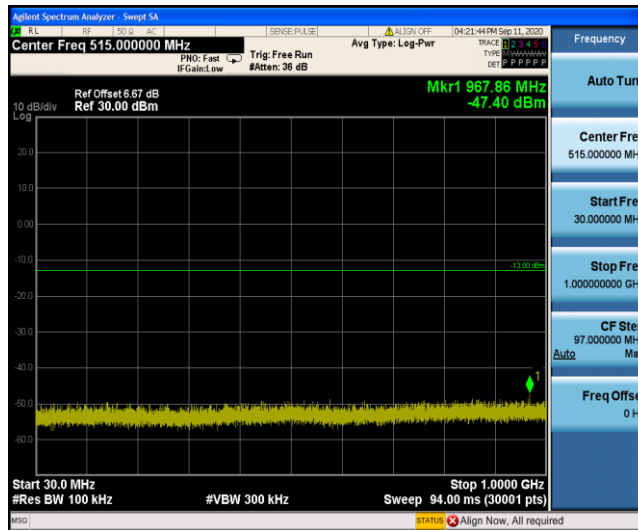
Band II_9262



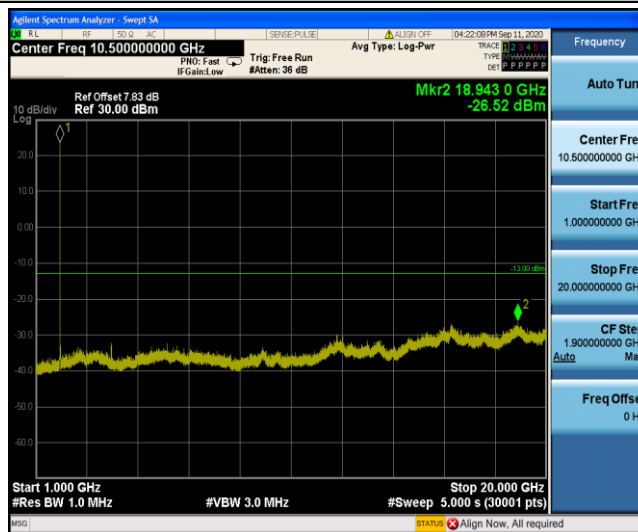
Band II_9400



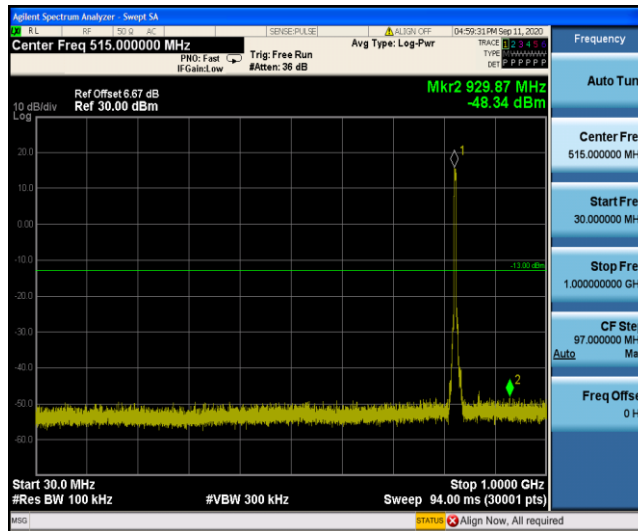
Band II_9400



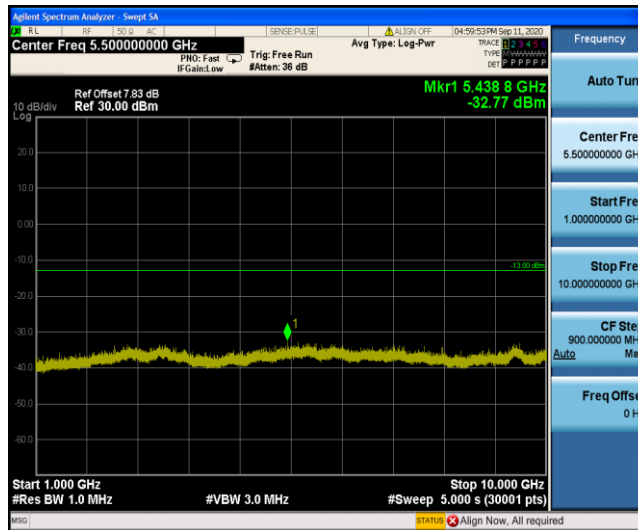
Band II_9538



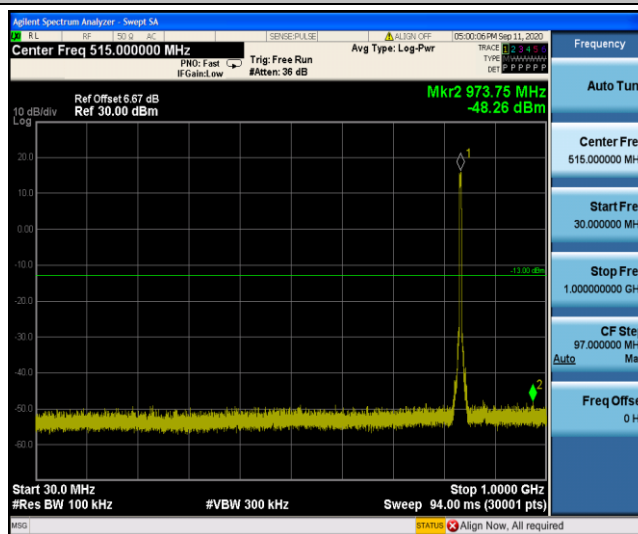
Band II_9538



Band V_4132



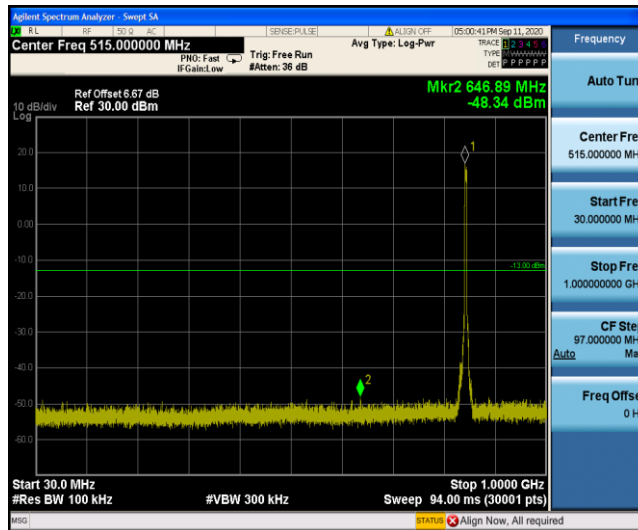
Band V_4132



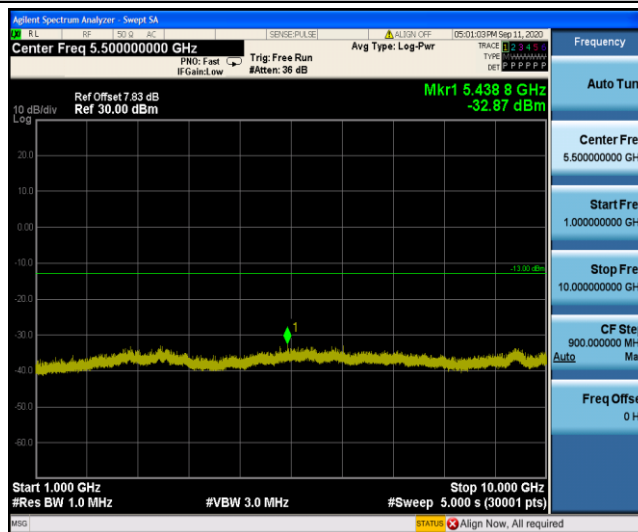
Band V_4182



Band V_4182



Band V_4233



Band V_4233

8.6 Appendix F: Frequency Stability

Test Result

| Voltage | | | | | | | |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band II | 9262 | VL | TN | -4.36 | -0.002354 | 2.5 | PASS |
| Band II | 9262 | VN | TN | -1.95 | -0.001053 | 2.5 | PASS |
| Band II | 9262 | VH | TN | -2.55 | -0.001377 | 2.5 | PASS |
| Band II | 9400 | VL | TN | -2.02 | -0.001074 | 2.5 | PASS |
| Band II | 9400 | VN | TN | -2.35 | -0.001250 | 2.5 | PASS |
| Band II | 9400 | VH | TN | 1.52 | 0.000809 | 2.5 | PASS |
| Band II | 9538 | VL | TN | 3.86 | 0.002023 | 2.5 | PASS |
| Band II | 9538 | VN | TN | 3.78 | 0.001982 | 2.5 | PASS |
| Band II | 9538 | VH | TN | -0.51 | -0.000267 | 2.5 | PASS |
| Band V | 4132 | VL | TN | -3.40 | -0.004114 | 2.5 | PASS |
| Band V | 4132 | VN | TN | -6.55 | -0.007926 | 2.5 | PASS |
| Band V | 4132 | VH | TN | -2.90 | -0.003509 | 2.5 | PASS |
| Band V | 4182 | VL | TN | -2.05 | -0.002451 | 2.5 | PASS |
| Band V | 4182 | VN | TN | 0.28 | 0.000335 | 2.5 | PASS |
| Band V | 4182 | VH | TN | -1.15 | -0.001375 | 2.5 | PASS |
| Band V | 4233 | VL | TN | -0.01 | -0.000012 | 2.5 | PASS |
| Band V | 4233 | VN | TN | -0.21 | -0.000248 | 2.5 | PASS |
| Band V | 4233 | VH | TN | -0.58 | -0.000685 | 2.5 | PASS |

| Temperature | | | | | | | |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band II | 9262 | VN | -30 | -2.68 | -0.001447 | 2.5 | PASS |
| Band II | 9262 | VN | -20 | 2.52 | 0.001360 | 2.5 | PASS |
| Band II | 9262 | VN | -10 | 0.96 | 0.000518 | 2.5 | PASS |
| Band II | 9262 | VN | 0 | 1.79 | 0.000966 | 2.5 | PASS |
| Band II | 9262 | VN | 10 | 2.94 | 0.001587 | 2.5 | PASS |
| Band II | 9262 | VN | 20 | 1.27 | 0.000686 | 2.5 | PASS |
| Band II | 9262 | VN | 30 | 1.39 | 0.000750 | 2.5 | PASS |
| Band II | 9262 | VN | 40 | 0.98 | 0.000529 | 2.5 | PASS |
| Band II | 9262 | VN | 50 | 3.15 | 0.001700 | 2.5 | PASS |
| Band II | 9400 | VN | -30 | -2.69 | -0.001431 | 2.5 | PASS |
| Band II | 9400 | VN | -20 | -1.41 | -0.000750 | 2.5 | PASS |
| Band II | 9400 | VN | -10 | -2.42 | -0.001287 | 2.5 | PASS |
| Band II | 9400 | VN | 0 | -4.38 | -0.002330 | 2.5 | PASS |
| Band II | 9400 | VN | 10 | 1.02 | 0.000543 | 2.5 | PASS |
| Band II | 9400 | VN | 20 | 0.28 | 0.000149 | 2.5 | PASS |
| Band II | 9400 | VN | 30 | 2.32 | 0.001234 | 2.5 | PASS |
| Band II | 9400 | VN | 40 | -0.69 | -0.000367 | 2.5 | PASS |
| Band II | 9400 | VN | 50 | 0.13 | 0.000069 | 2.5 | PASS |
| Band II | 9538 | VN | -30 | 1.21 | 0.000634 | 2.5 | PASS |
| Band II | 9538 | VN | -20 | 1.69 | 0.000886 | 2.5 | PASS |
| Band II | 9538 | VN | -10 | -0.04 | -0.000021 | 2.5 | PASS |
| Band II | 9538 | VN | 0 | -2.94 | -0.001541 | 2.5 | PASS |
| Band II | 9538 | VN | 10 | 1.72 | 0.000902 | 2.5 | PASS |
| Band II | 9538 | VN | 20 | 1.65 | 0.000865 | 2.5 | PASS |
| Band II | 9538 | VN | 30 | 0.66 | 0.000346 | 2.5 | PASS |
| Band II | 9538 | VN | 40 | -0.02 | -0.000010 | 2.5 | PASS |
| Band II | 9538 | VN | 50 | 7.37 | 0.003863 | 2.5 | PASS |
| Band V | 4132 | VN | -30 | -2.44 | -0.002953 | 2.5 | PASS |
| Band V | 4132 | VN | -20 | 2.72 | 0.003291 | 2.5 | PASS |
| Band V | 4132 | VN | -10 | -1.95 | -0.002360 | 2.5 | PASS |
| Band V | 4132 | VN | 0 | -3.68 | -0.004453 | 2.5 | PASS |
| Band V | 4132 | VN | 10 | -0.04 | -0.000048 | 2.5 | PASS |
| Band V | 4132 | VN | 20 | -1.53 | -0.001851 | 2.5 | PASS |
| Band V | 4132 | VN | 30 | -3.83 | -0.004635 | 2.5 | PASS |
| Band V | 4132 | VN | 40 | -3.39 | -0.004102 | 2.5 | PASS |
| Band V | 4132 | VN | 50 | 0.68 | 0.000823 | 2.5 | PASS |
| Band V | 4182 | VN | -30 | 2.11 | 0.002523 | 2.5 | PASS |
| Band V | 4182 | VN | -20 | 0.96 | 0.001148 | 2.5 | PASS |
| Band V | 4182 | VN | -10 | -0.71 | -0.000849 | 2.5 | PASS |
| Band V | 4182 | VN | 0 | -0.51 | -0.000610 | 2.5 | PASS |
| Band V | 4182 | VN | 10 | 1.14 | 0.001363 | 2.5 | PASS |
| Band V | 4182 | VN | 20 | 0.94 | 0.001124 | 2.5 | PASS |
| Band V | 4182 | VN | 30 | -0.40 | -0.000478 | 2.5 | PASS |
| Band V | 4182 | VN | 40 | 3.17 | 0.003790 | 2.5 | PASS |
| Band V | 4182 | VN | 50 | 0.11 | 0.000132 | 2.5 | PASS |
| Band V | 4233 | VN | -30 | -1.11 | -0.001311 | 2.5 | PASS |

| | | | | | | | |
|--------|------|----|-----|-------|-----------|-----|------|
| Band V | 4233 | VN | -20 | -0.13 | -0.000154 | 2.5 | PASS |
| Band V | 4233 | VN | -10 | -0.41 | -0.000484 | 2.5 | PASS |
| Band V | 4233 | VN | 0 | -0.06 | -0.000071 | 2.5 | PASS |
| Band V | 4233 | VN | 10 | 0.84 | 0.000992 | 2.5 | PASS |
| Band V | 4233 | VN | 20 | -1.89 | -0.002232 | 2.5 | PASS |
| Band V | 4233 | VN | 30 | 0.39 | 0.000461 | 2.5 | PASS |
| Band V | 4233 | VN | 40 | 0.41 | 0.000484 | 2.5 | PASS |
| Band V | 4233 | VN | 50 | 0.55 | 0.000650 | 2.5 | PASS |

-----End of the Report -----