

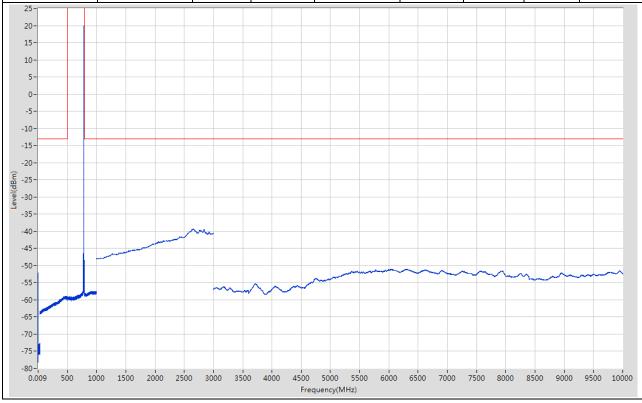
Annex C. LTE Transmitter Spurious Emissions



1. LTE_Band13

1.1. LTE Transmitter Spurious Emissions(NTNV)(Subtest:1, Channel:23205, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

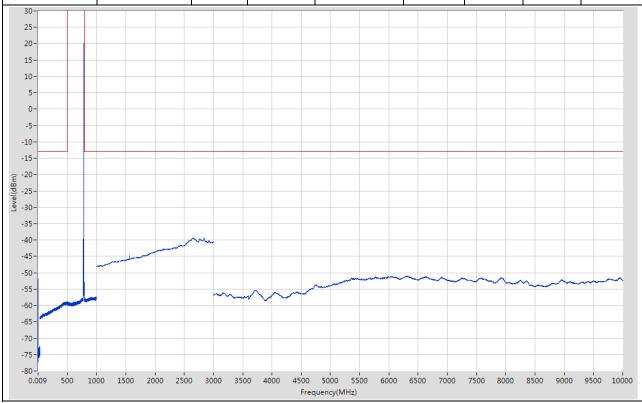
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detecto r | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdic t | Sweep Point |
|-----------------------------|----------------------------|--------------|--------------|--------------------|----------------|----------------|-------------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -53.48 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -52.07 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 483.096 | -58.9 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 777.294 | 19.93 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 975.388 | -57.48 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2658.829 | -39.32 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6294.471 | -51.04 | -13 | Pass | 7000 |





1.2. LTE Transmitter Spurious Emissions(NTNV)(Subtest:2, Channel:23205, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

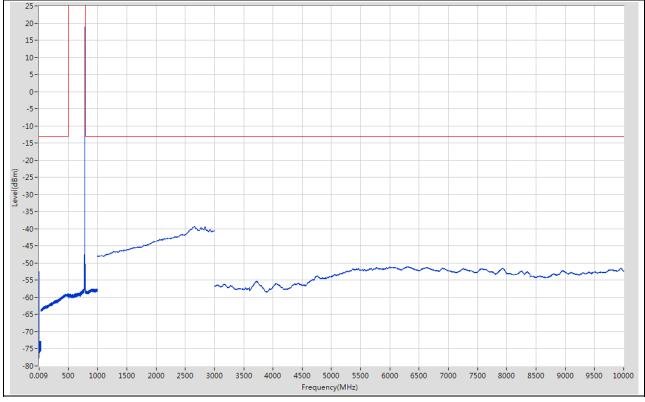
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -53.02 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.91 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 497.9 | -58.82 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 781.695 | 20.09 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 992.897 | -57.44 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2658.829 | -39.32 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6303.472 | -51.02 | -13 | Pass | 7000 |
| 30 - | | | | | | | | |





1.3. LTE Transmitter Spurious Emissions(NTNV)(Subtest:3, Channel:23205, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

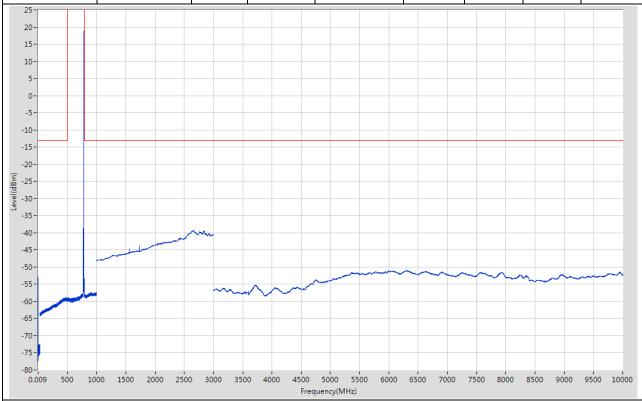
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detecto r | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdic t | Sweep Point |
|-----------------------------|----------------------------|--------------|--------------|--------------------|----------------|----------------|-------------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -52.95 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -52.46 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 497.099 | -58.92 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 777.294 | 18.84 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 906.654 | -57.55 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2658.829 | -39.31 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6311.473 | -51.05 | -13 | Pass | 7000 |





1.4. LTE Transmitter Spurious Emissions(NTNV)(Subtest:4, Channel:23205, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)

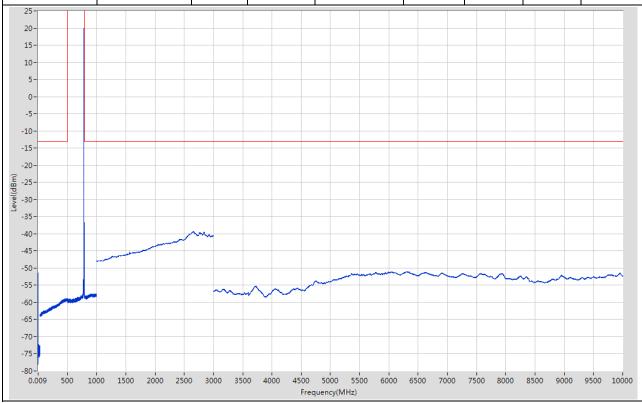
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.01 | -52.93 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -53.03 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 495.099 | -58.84 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 781.695 | 18.91 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 901.152 | -57.38 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2661.831 | -39.3 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6300.471 | -50.98 | -13 | Pass | 7000 |





1.5. LTE Transmitter Spurious Emissions(NTNV)(Subtest:5, Channel:23230, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

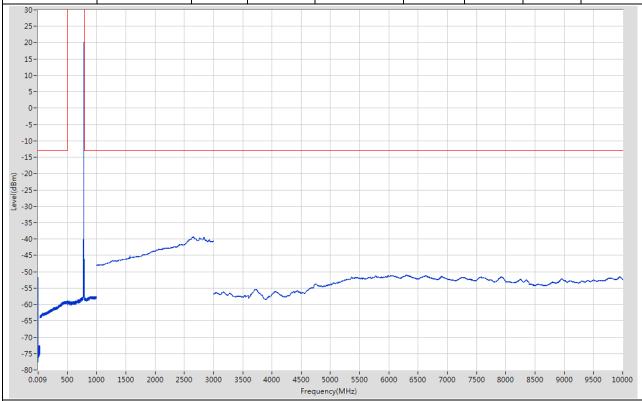
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.01 | -54.12 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.38 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 497.099 | -58.84 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 779.795 | 19.84 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 947.474 | -57.49 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2657.829 | -39.33 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6303.472 | -51.02 | -13 | Pass | 7000 |





1.6. LTE Transmitter Spurious Emissions(NTNV)(Subtest:6, Channel:23230, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

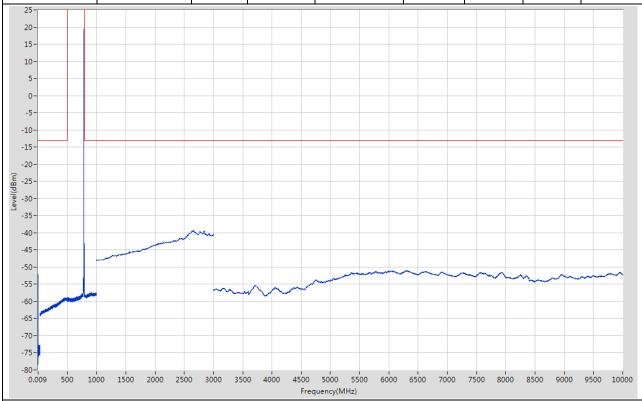
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -52.84 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.7 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 496.199 | -58.85 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 784.196 | 20.08 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 897.45 | -57.51 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2659.83 | -39.31 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6309.473 | -51 | -13 | Pass | 7000 |
| 30- | | | | | | | | |





1.7. LTE Transmitter Spurious Emissions(NTNV)(Subtest:7, Channel:23230, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

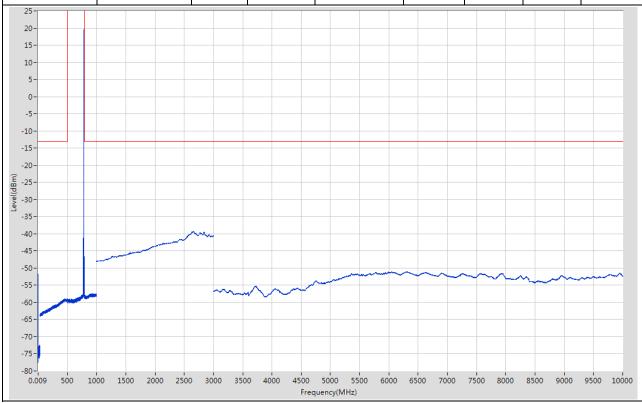
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -53.59 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -52.2 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 497.499 | -58.94 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 779.795 | 19.44 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 917.26 | -57.45 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2659.83 | -39.31 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6304.472 | -51.01 | -13 | Pass | 7000 |





1.8. LTE Transmitter Spurious Emissions(NTNV)(Subtest:8, Channel:23230, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)

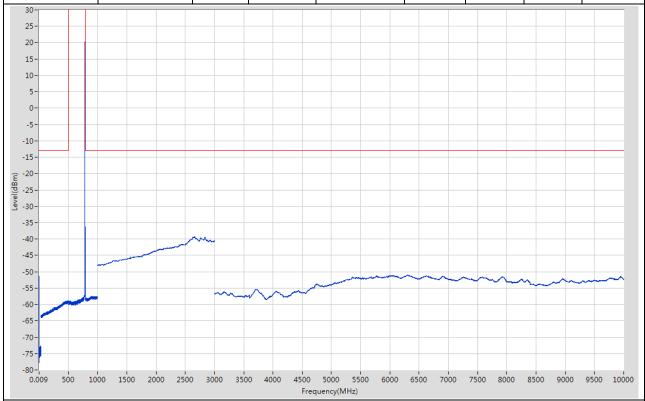
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.01 | -54.32 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.75 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 492.798 | -58.91 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 784.196 | 19.49 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 923.463 | -57.43 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2655.828 | -39.33 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6301.472 | -51.06 | -13 | Pass | 7000 |





1.9. LTE Transmitter Spurious Emissions(NTNV)(Subtest:9, Channel:23255, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

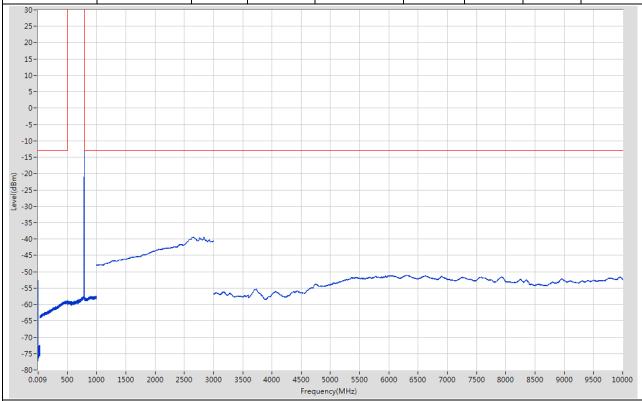
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -53.69 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.4 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 499.1 | -58.9 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 782.296 | 20.22 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 907.455 | -57.37 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2659.83 | -39.31 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6297.471 | -51.01 | -13 | Pass | 7000 |





1.10. LTE Transmitter Spurious Emissions(NTNV)(Subtest:10, Channel:23255, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

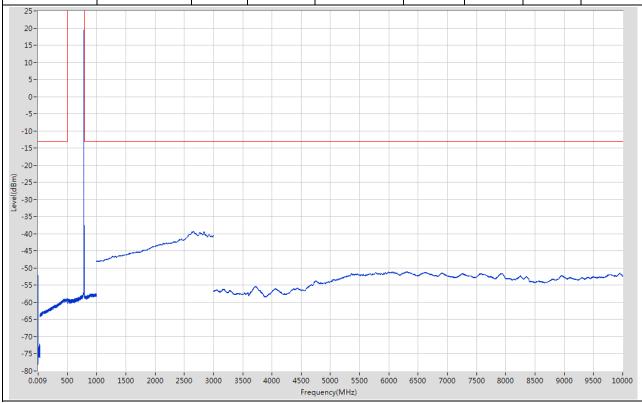
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point | |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|--|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -53.79 | -13 | Pass | 601 | |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -52.65 | -13 | Pass | 2985 | |
| 30 | 500 | 0.1 | RMS | 498.1 | -58.7 | -13 | Pass | 4700 | |
| 500 | 795 | 0.1 | RMS | 786.697 | 20.28 | 60 | Pass | 2950 | |
| 795 | 1000 | 0.1 | RMS | 795.3 | -57.31 | -13 | Pass | 2050 | |
| 1000 | 3000 | 1 | RMS | 2659.83 | -39.34 | -13 | Pass | 2000 | |
| 3000 | 10000 | 1 | RMS | 6303.472 | -51.03 | -13 | Pass | 7000 | |
| 30- | | | | | | | | | |





1.11. LTE Transmitter Spurious Emissions(NTNV)(Subtest:11, Channel:23255, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

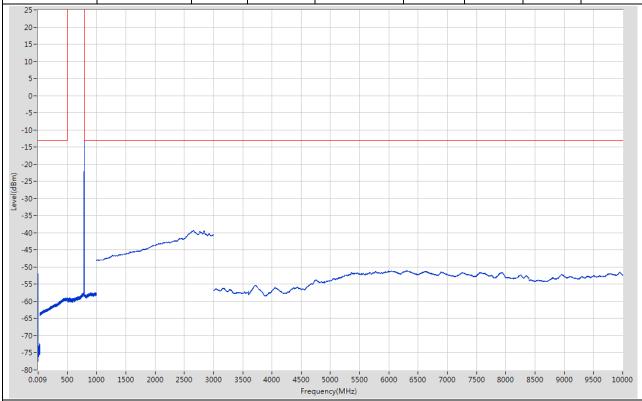
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -53.18 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -52.1 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 490.698 | -58.82 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 782.296 | 19.39 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 982.491 | -57.46 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2659.83 | -39.31 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6297.471 | -51.03 | -13 | Pass | 7000 |





1.12. LTE Transmitter Spurious Emissions(NTNV)(Subtest:12, Channel:23255, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)

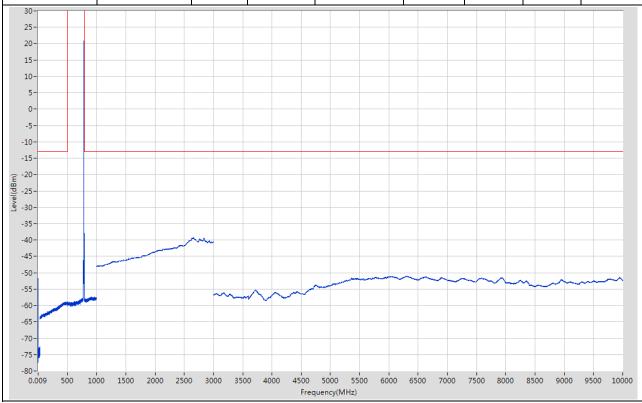
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -53.32 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.95 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 491.898 | -58.89 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 786.697 | 19.02 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 898.751 | -57.4 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2660.83 | -39.35 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6307.472 | -51.05 | -13 | Pass | 7000 |





1.13. LTE Transmitter Spurious Emissions(NTNV)(Subtest:13, Channel:23230, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

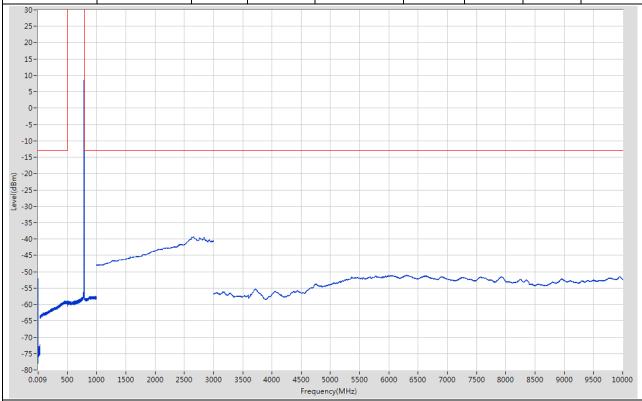
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -54.14 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.73 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 498.8 | -58.9 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 777.594 | 20.83 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 795.3 | -54.95 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2657.829 | -39.27 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6307.472 | -51.05 | -13 | Pass | 7000 |
| 30- | | | | | | | | |





1.14. LTE Transmitter Spurious Emissions(NTNV)(Subtest:14, Channel:23230, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

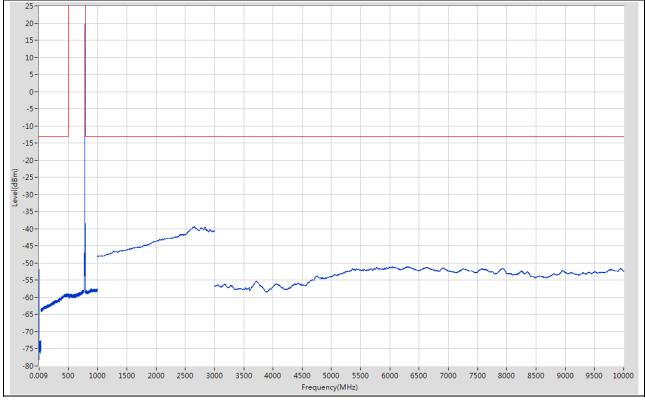
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.009 | -53.21 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -52.18 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 462.592 | -58.83 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 786.397 | 20.69 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 795.3 | -53.24 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2659.83 | -39.29 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6303.472 | -51.03 | -13 | Pass | 7000 |
| 30- | | | | | | | | |





1.15. LTE Transmitter Spurious Emissions(NTNV)(Subtest:15, Channel:23230, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

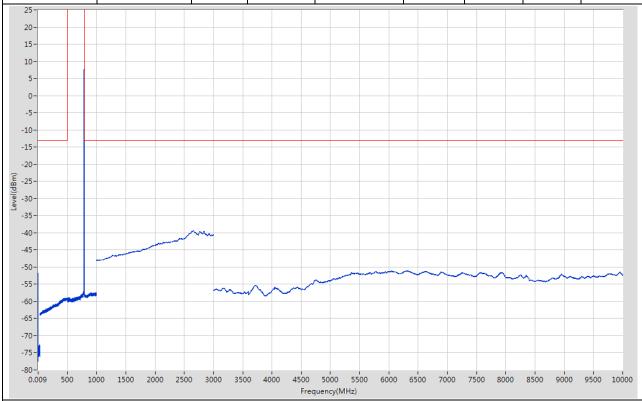
| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.01 | -53.98 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.79 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 469.794 | -58.88 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 777.594 | 19.52 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 795.3 | -56.31 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2659.83 | -39.33 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6300.471 | -51.03 | -13 | Pass | 7000 |





1.16. LTE Transmitter Spurious Emissions(NTNV)(Subtest:16, Channel:23230, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:HIGH)

| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009 | 0.15 | 0.001 | RMS | 0.01 | -53.66 | -13 | Pass | 601 |
| 0.15 | 30 | 0.01 | RMS | 0.15 | -51.86 | -13 | Pass | 2985 |
| 30 | 500 | 0.1 | RMS | 500 | -58.9 | -13 | Pass | 4700 |
| 500 | 795 | 0.1 | RMS | 786.397 | 19.83 | 60 | Pass | 2950 |
| 795 | 1000 | 0.1 | RMS | 795.3 | -55.04 | -13 | Pass | 2050 |
| 1000 | 3000 | 1 | RMS | 2658.829 | -39.36 | -13 | Pass | 2000 |
| 3000 | 10000 | 1 | RMS | 6302.472 | -51.02 | -13 | Pass | 7000 |





END