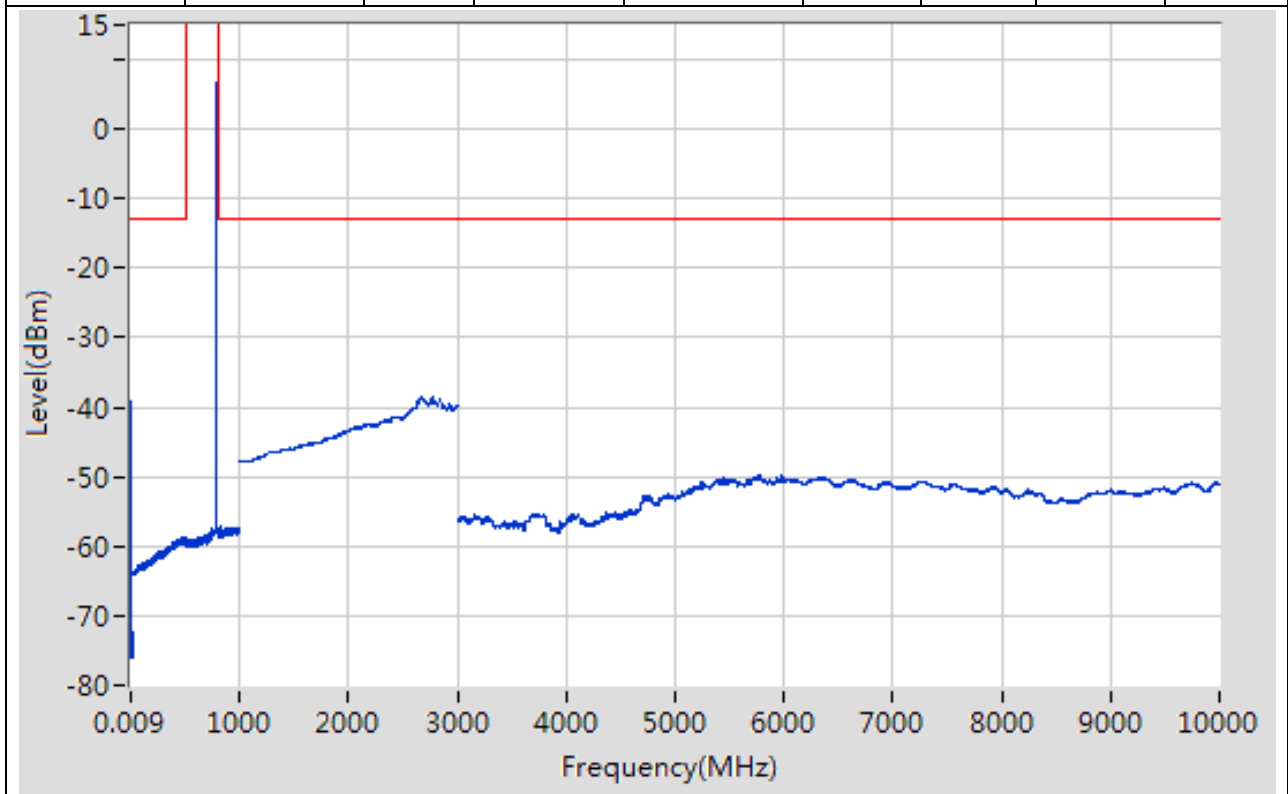


## **Annex C. LTE Transmitter Spurious Emissions**

## 1. LTE\_Band13

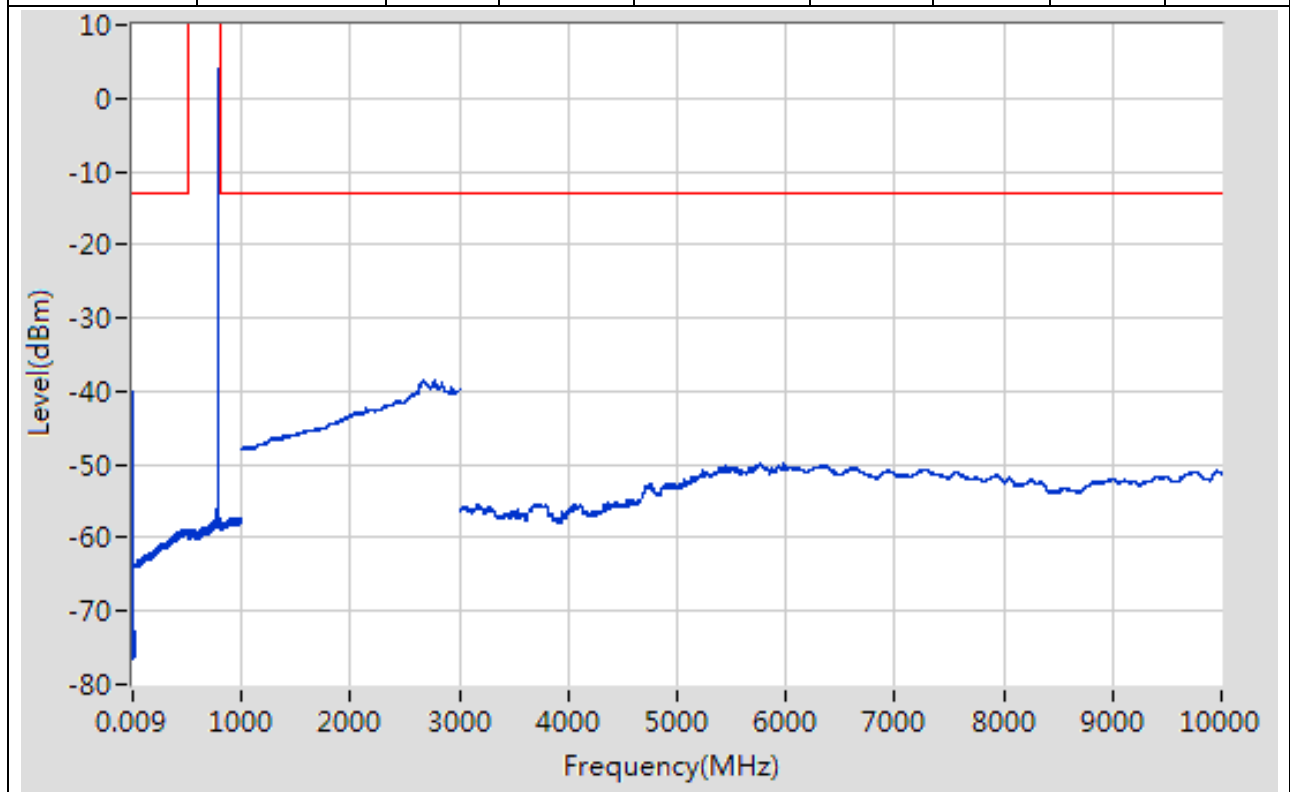
### 1.1. LTE Transmitter Spurious Emissions(NTNV)(Subtest:1, Channel:23205, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------|----------------------|-----------|----------|-----------------|-------------|-------------|---------|-------------|
| 0.009                 | 0.15                 | 0.001     | RMS      | 0.011           | -46.41      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.2       | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 496.999         | -58.75      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 777.394         | 6.59        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 827.916         | -57.08      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2668.834        | -38.46      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5764.395        | -49.73      | -13         | Pass    | 7000        |



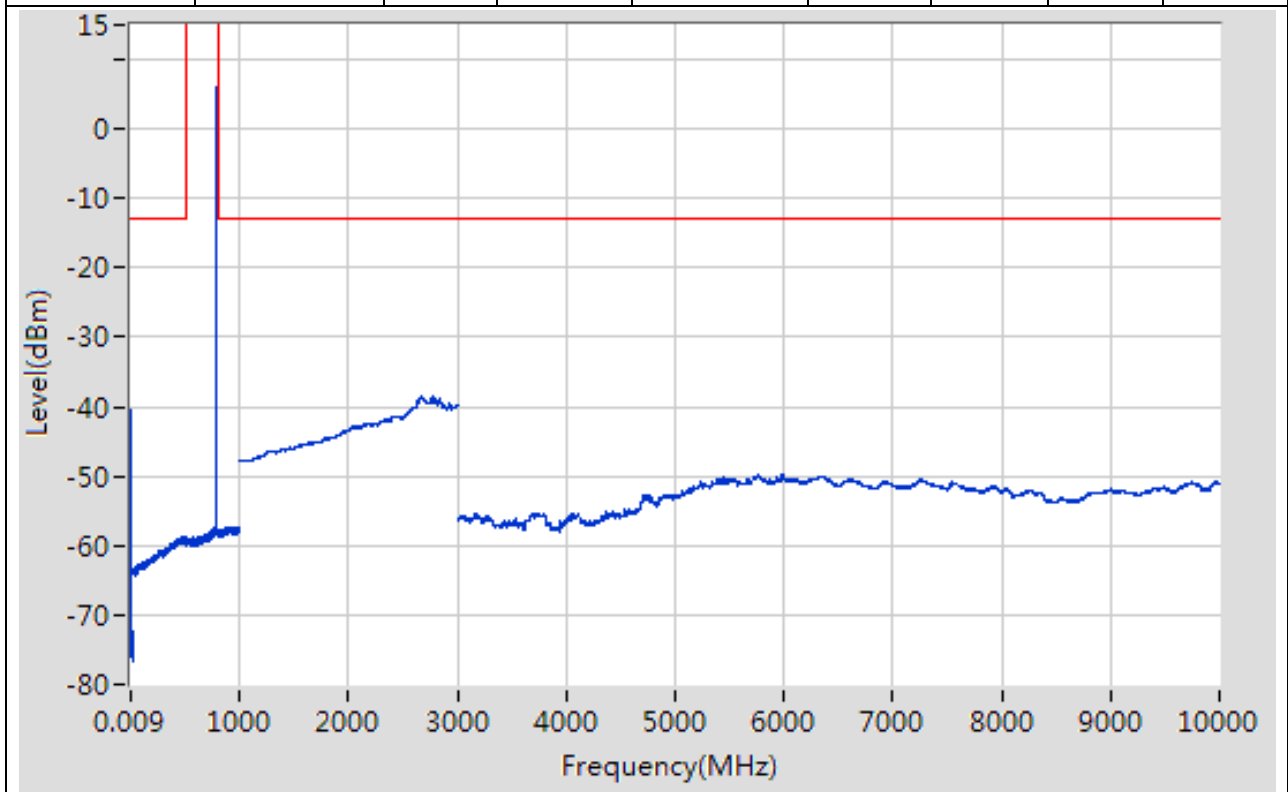
## 1.2. LTE Transmitter Spurious Emissions(NTNV)(Subtest:2, Channel:23205, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

| 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           | -47.16      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.98      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 486.197         | -58.8       | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 781.695         | 3.9         | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 893.648         | -57.3       | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2668.834        | -38.49      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5765.395        | -49.75      | -13         | Pass    | 7000        |



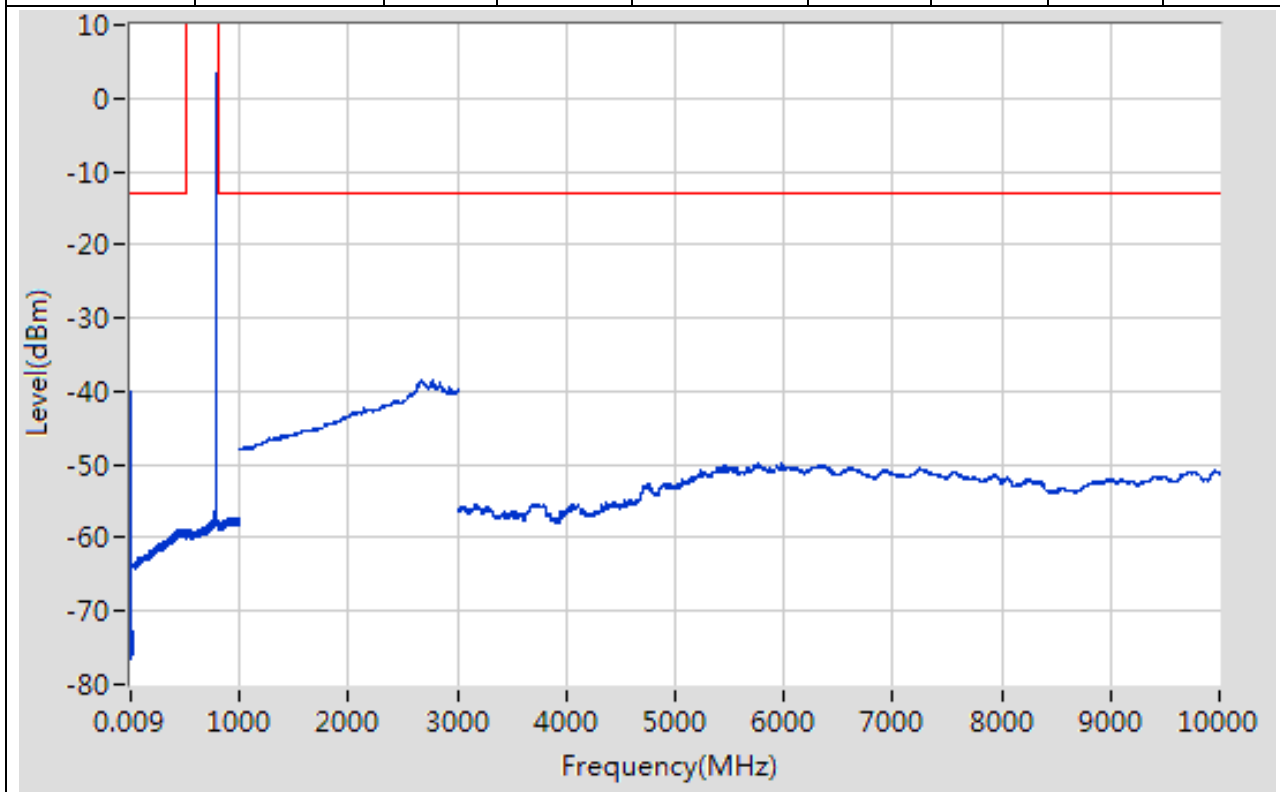
### 1.3. LTE Transmitter Spurious Emissions(NTNV)(Subtest:3, Channel:23205, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

| Start Frequency (MHz) | Stop Frequency (MHz) | RBW (MHz) | Detector | Frequency (MHz) | Power (dBm) | Limit (dBm) | Verdict | Sweep Point |
|-----------------------|----------------------|-----------|----------|-----------------|-------------|-------------|---------|-------------|
| 0.009                 | 0.15                 | 0.001     | RMS      | 0.009           | -47.25      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -40.62      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 473.294         | -58.84      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 777.394         | 5.89        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 901.552         | -57.28      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2669.835        | -38.5       | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5770.396        | -49.68      | -13         | Pass    | 7000        |



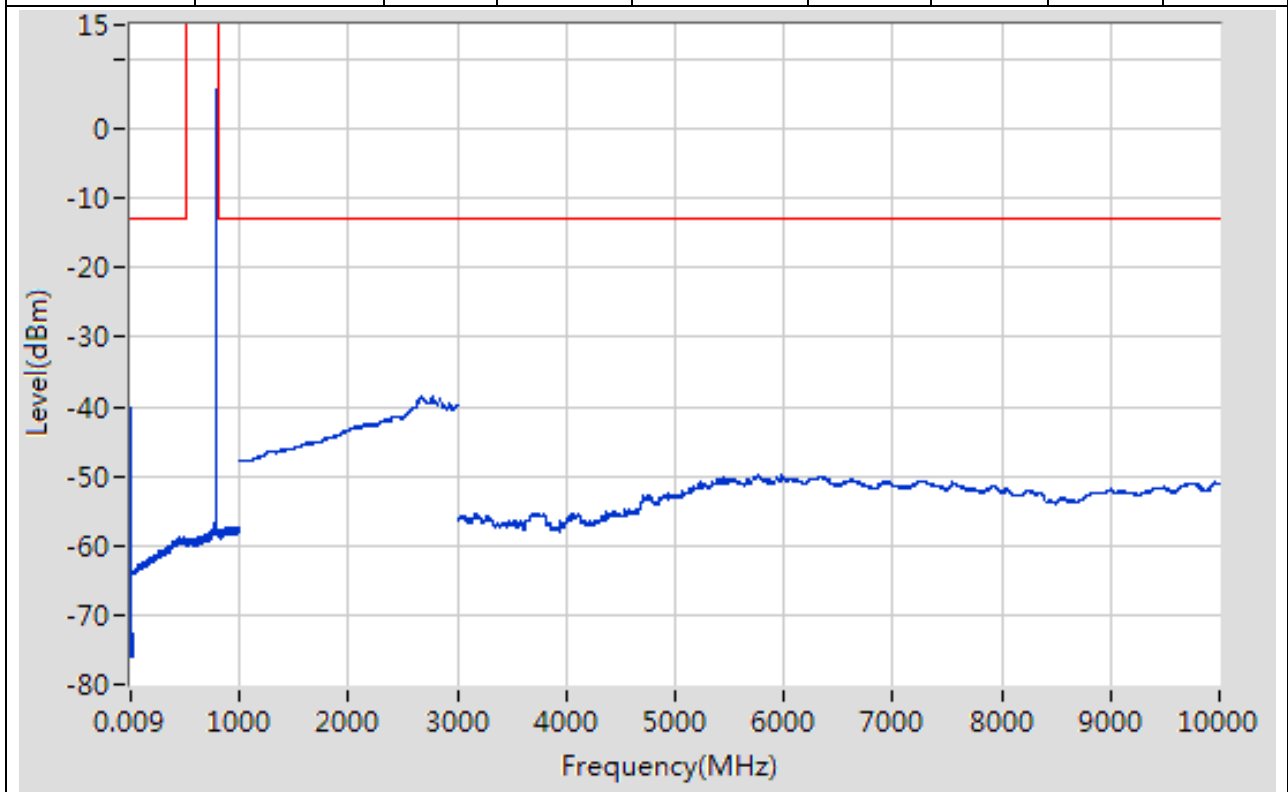
#### 1.4. LTE Transmitter Spurious Emissions(NTNV)(Subtest:4, Channel:23205, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)

| 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      | 0.009           | -47.45      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -40.02      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 493.999         | -58.78      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 781.695         | 3.39        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 932.367         | -57.28      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2673.837        | -38.5       | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5770.396        | -49.74      | -13         | Pass    | 7000        |



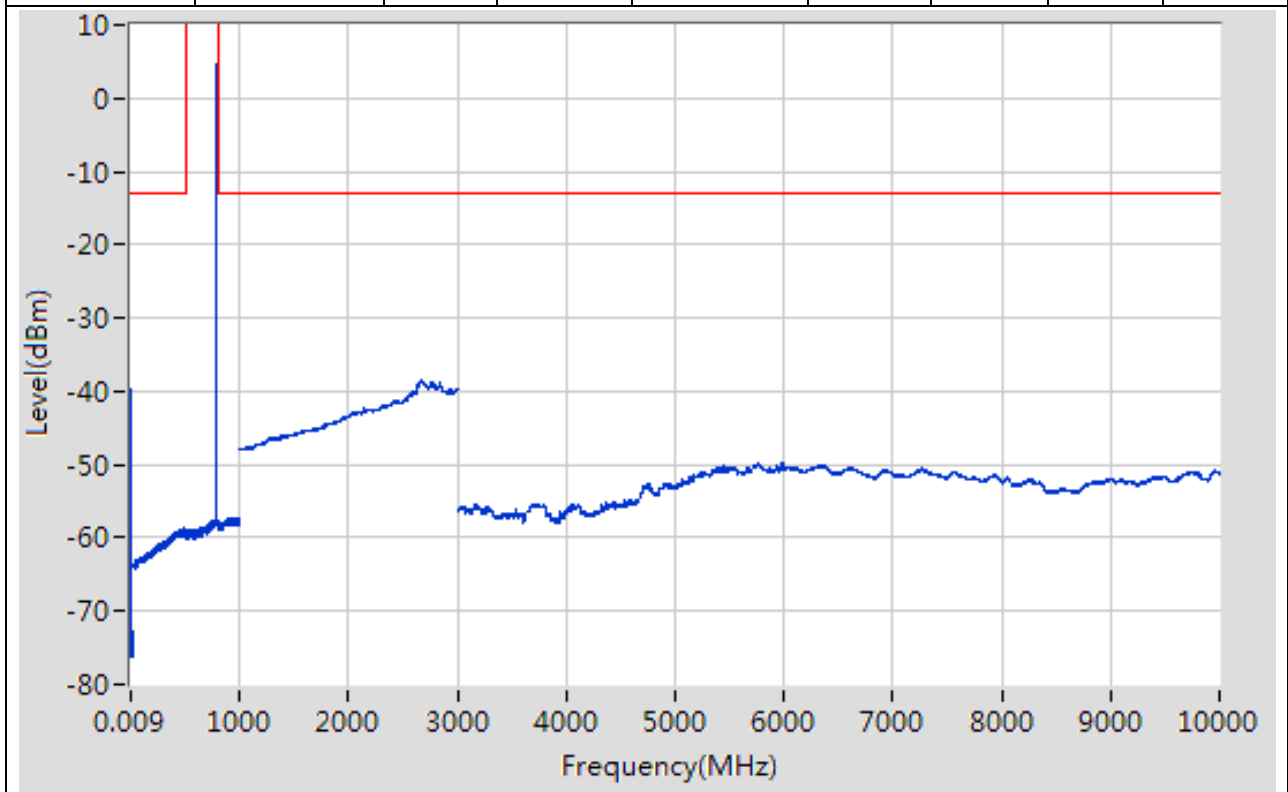
### 1.5. LTE Transmitter Spurious Emissions(NTNV)(Subtest:5, Channel:23230, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

| 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            | -46.87      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -40.05      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 497.499         | -58.76      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 779.895         | 5.69        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 987.394         | -57.27      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2669.835        | -38.45      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5765.395        | -49.72      | -13         | Pass    | 7000        |



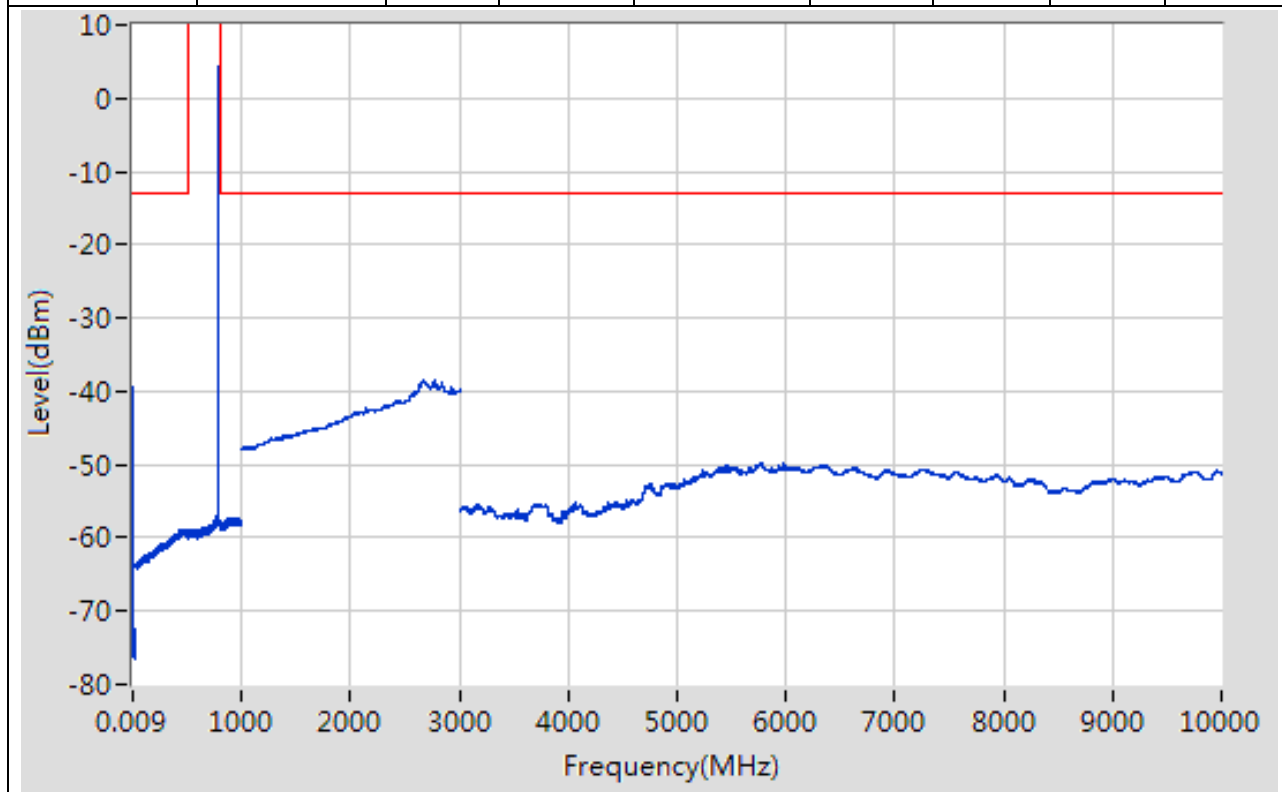
### 1.6. LTE Transmitter Spurious Emissions(NTNV)(Subtest:6, Channel:23230, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

| 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           | -45.55      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.61      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 497.299         | -58.66      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 784.196         | 4.65        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 966.784         | -57.29      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2672.836        | -38.51      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5765.395        | -49.74      | -13         | Pass    | 7000        |



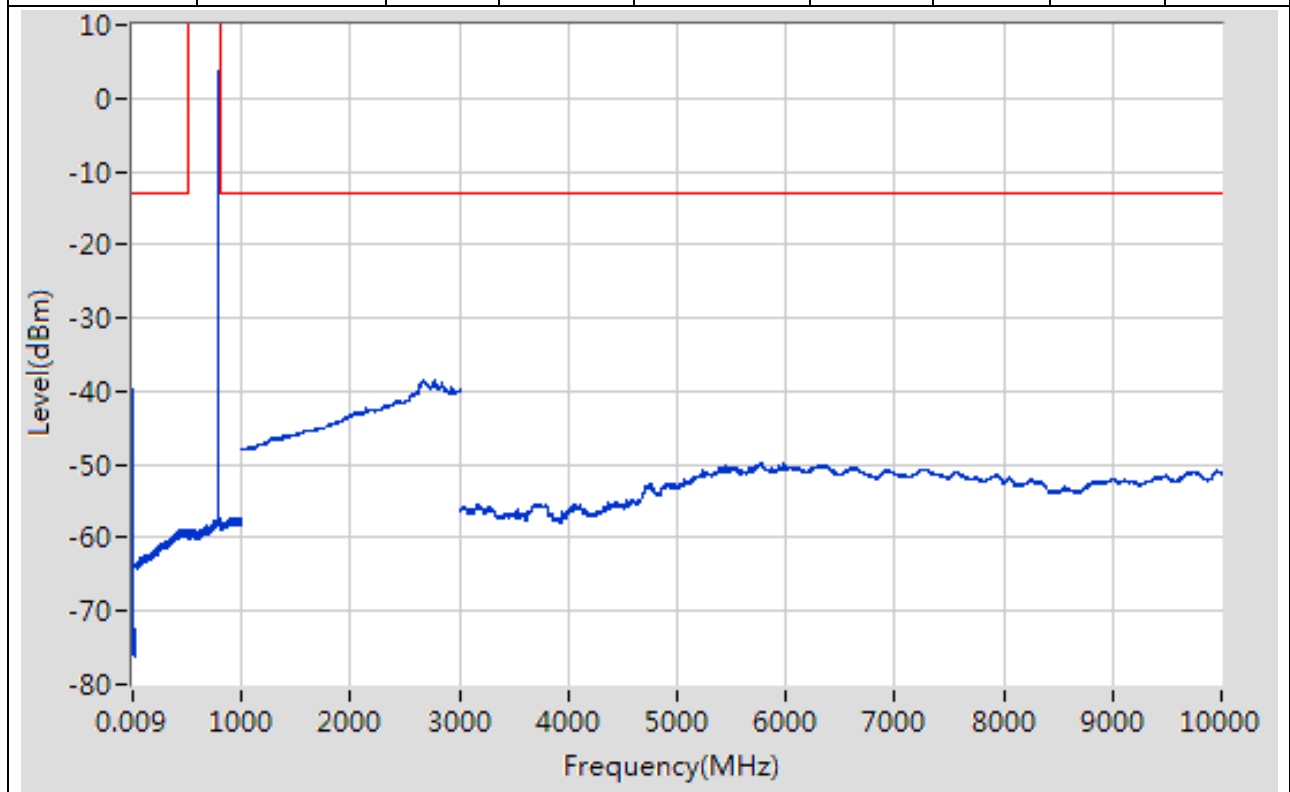
### 1.7. LTE Transmitter Spurious Emissions(NTNV)(Subtest:7, Channel:23230, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

| 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      | 0.01            | -47.46      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.39      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 492.398         | -58.82      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 779.795         | 4.49        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 930.466         | -57.2       | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2669.835        | -38.51      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5761.394        | -49.71      | -13         | Pass    | 7000        |



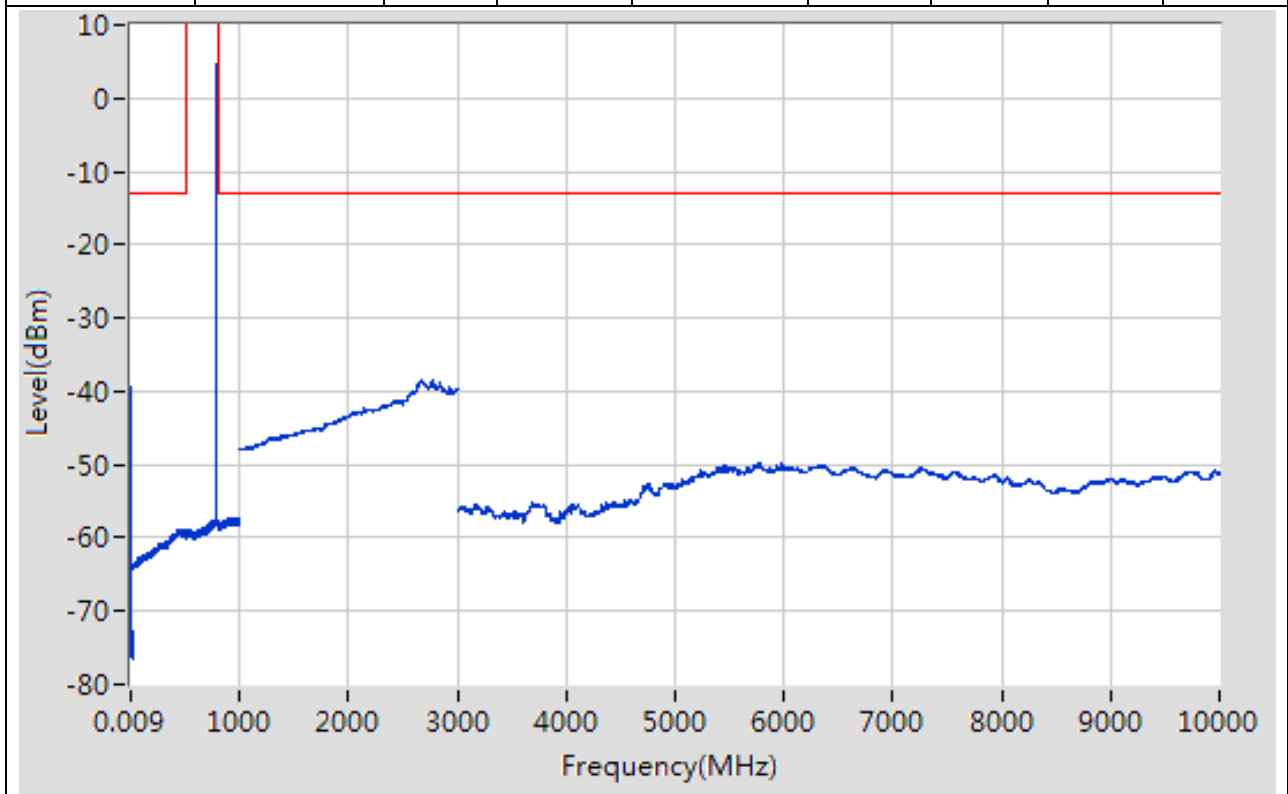
### 1.8. LTE Transmitter Spurious Emissions(NTNV)(Subtest:8, Channel:23230, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)

| 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      | 0.009           | -46.14      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.57      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 498.5           | -58.76      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 784.096         | 3.68        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 897.35          | -57.24      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2667.834        | -38.46      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5769.396        | -49.73      | -13         | Pass    | 7000        |



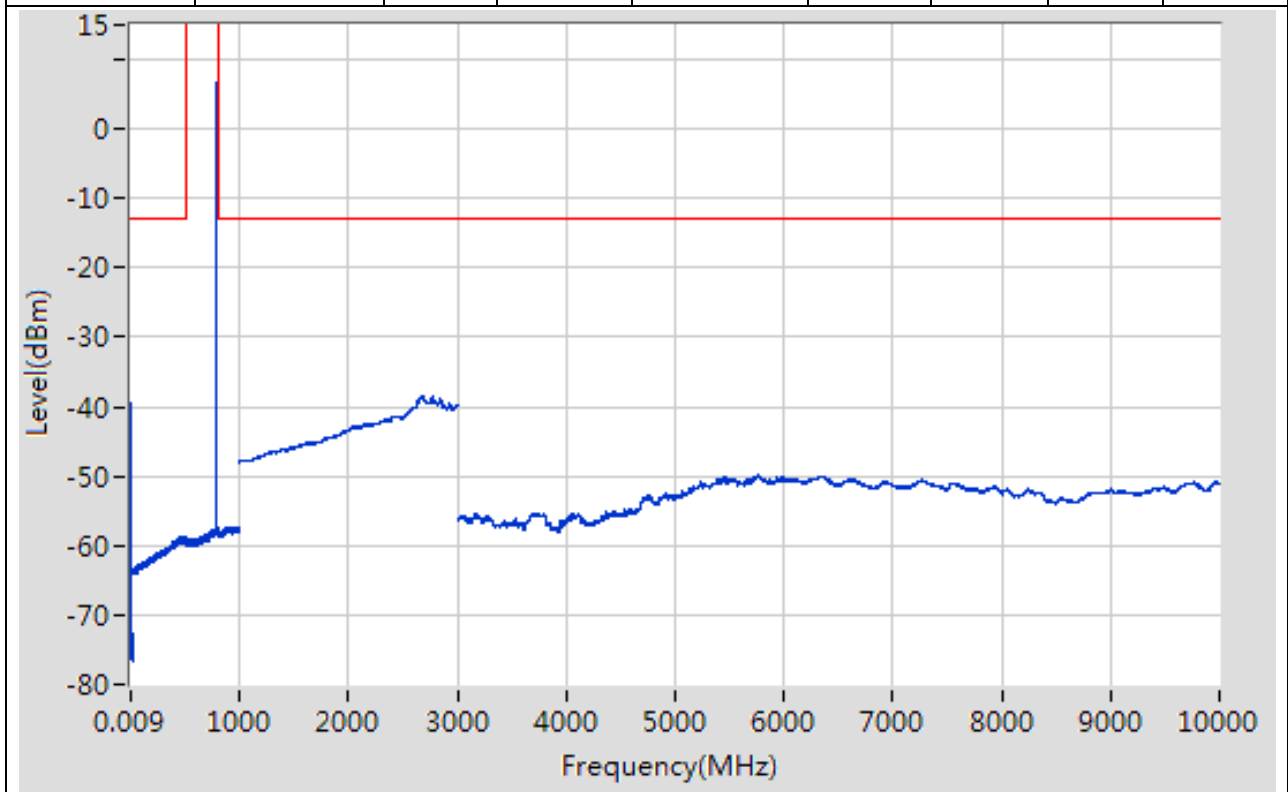
### 1.9. LTE Transmitter Spurious Emissions(NTNV)(Subtest:9, Channel:23255, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

| 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      | 0.01            | -46.03      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.51      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 461.292         | -58.81      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 782.296         | 4.55        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 908.555         | -57.3       | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2670.835        | -38.52      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5764.395        | -49.71      | -13         | Pass    | 7000        |



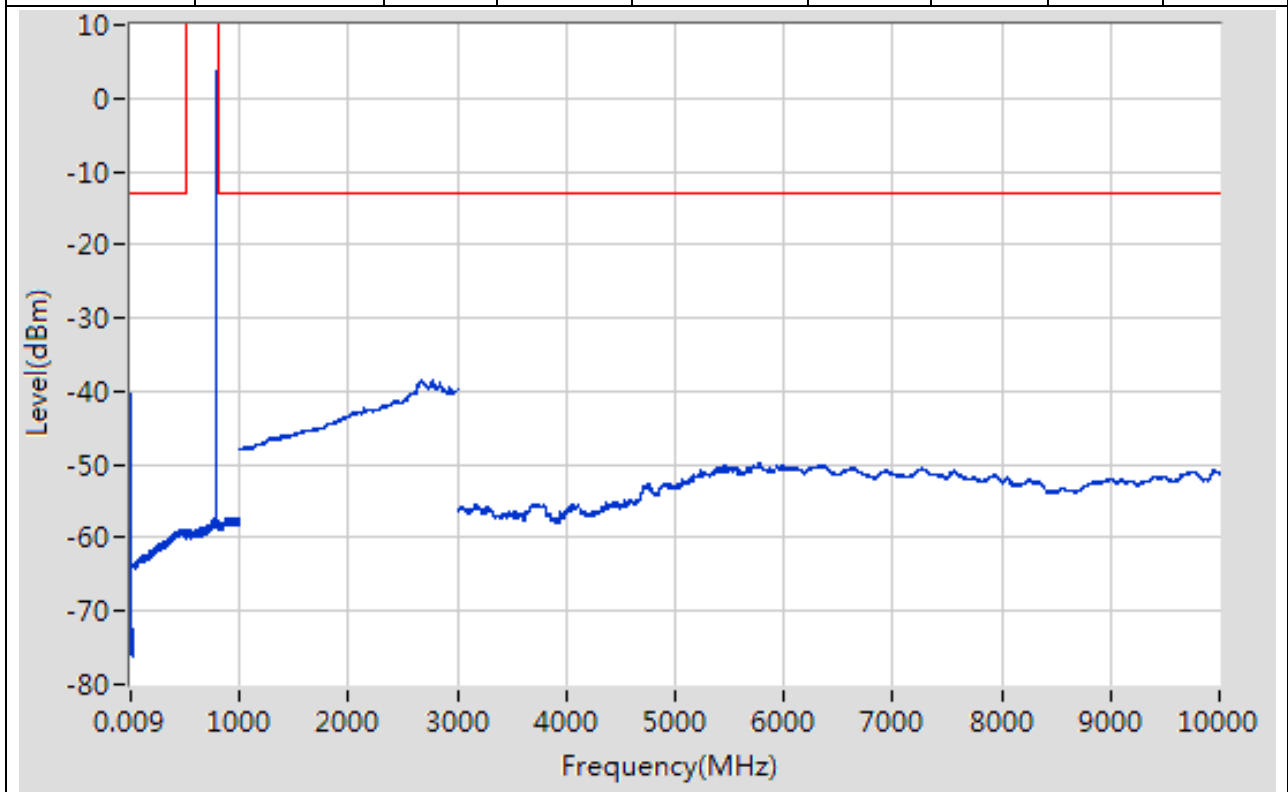
### 1.10. LTE Transmitter Spurious Emissions(NTNV)(Subtest:10, Channel:23255, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

| 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           | -46.63      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.5       | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 497.7           | -58.68      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 786.697         | 6.68        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 995.998         | -57.28      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2669.835        | -38.5       | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5762.395        | -49.71      | -13         | Pass    | 7000        |



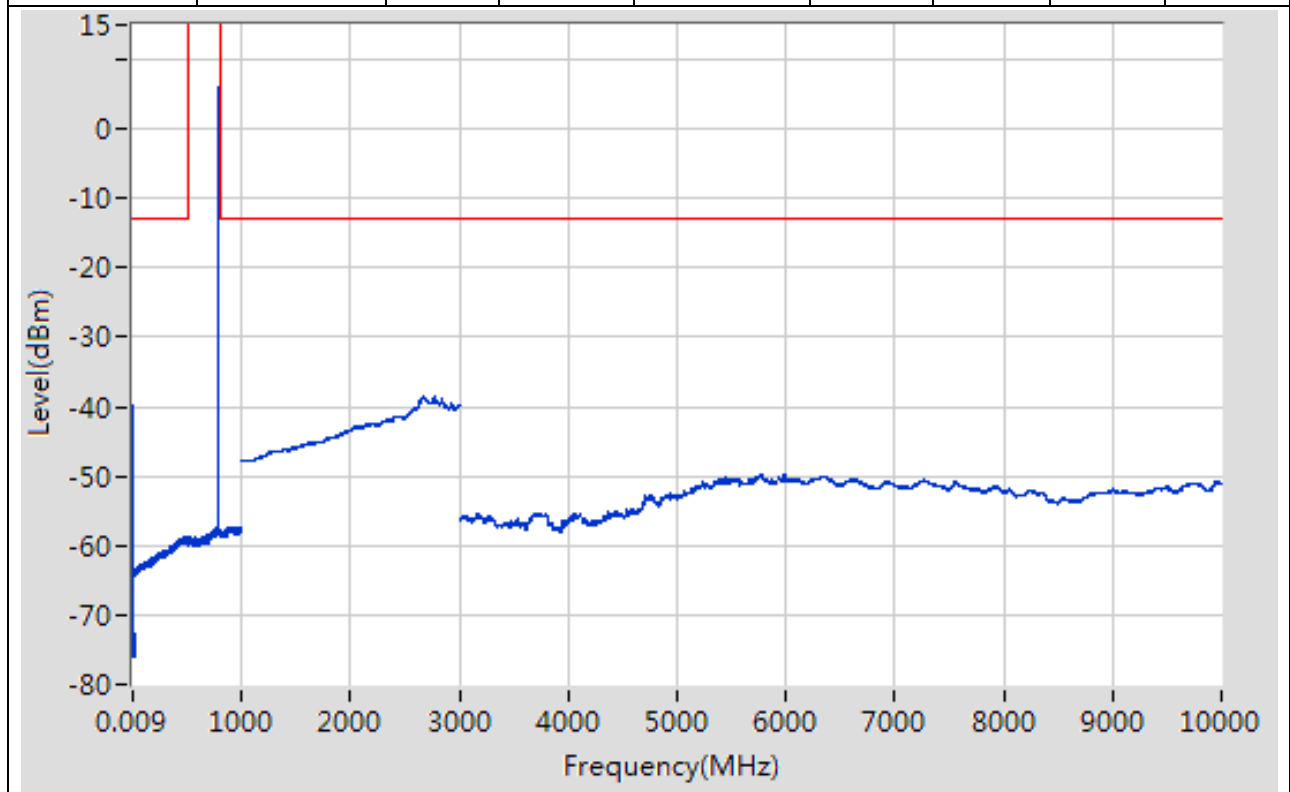
### 1.11. LTE Transmitter Spurious Emissions(NTNV)(Subtest:11, Channel:23255, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

| 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      | 0.01            | -46.66      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -40.21      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 497.599         | -58.77      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 782.396         | 3.67        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 999.6           | -57.24      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2668.834        | -38.49      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5762.395        | -49.72      | -13         | Pass    | 7000        |



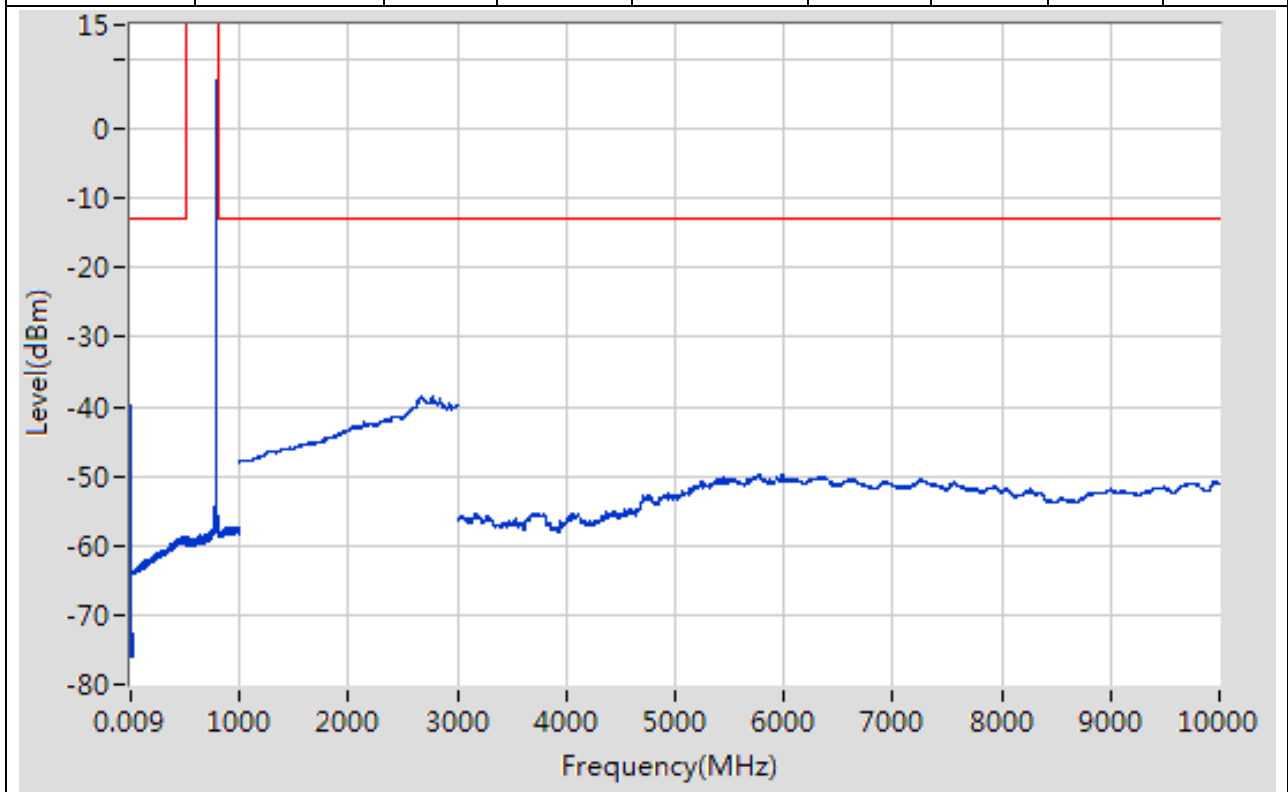
### 1.12. LTE Transmitter Spurious Emissions(NTNV)(Subtest:12, Channel:23255, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)

| 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           | -46.51      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.65      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 455.591         | -58.75      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 786.697         | 6.13        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 910.056         | -57.27      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2670.835        | -38.46      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5765.395        | -49.65      | -13         | Pass    | 7000        |



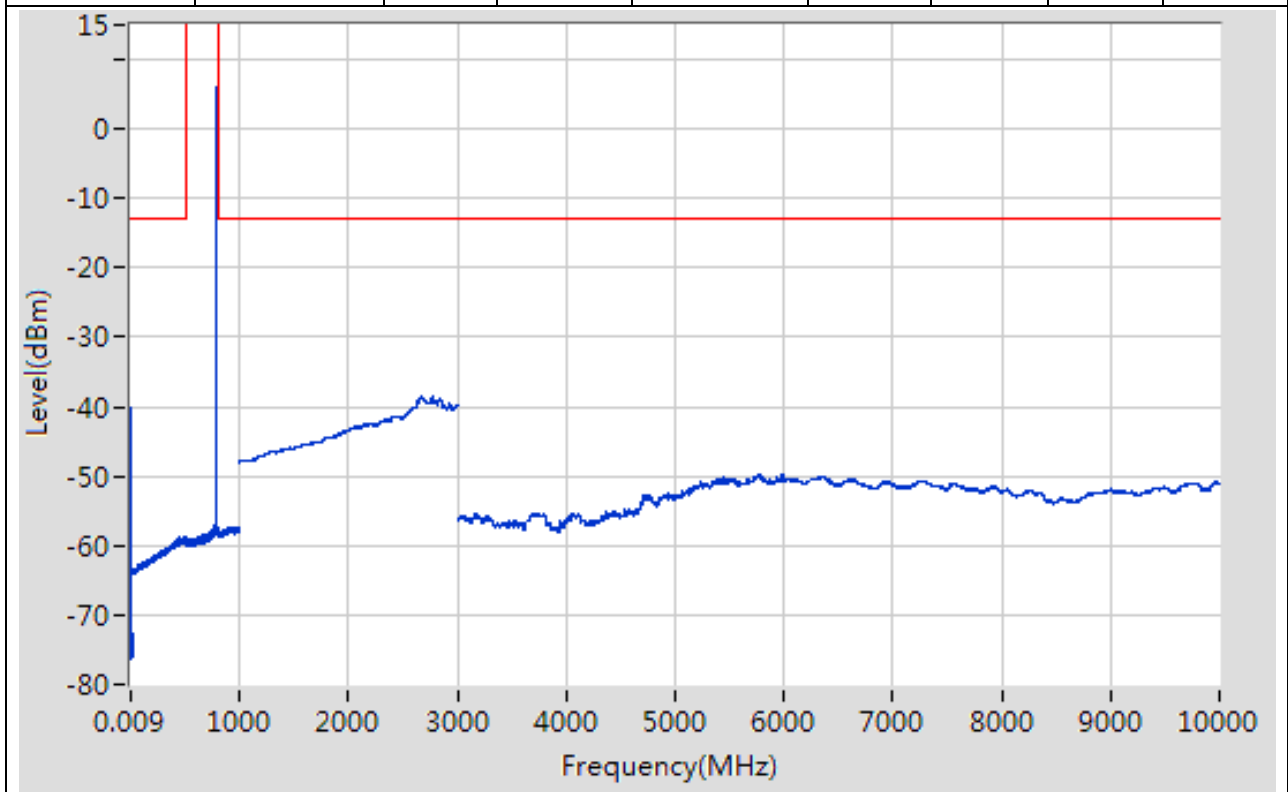
### 1.13. LTE Transmitter Spurious Emissions(NTNV)(Subtest:13, Channel:23230, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

| 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           | -45.93      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.93      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 496.799         | -58.71      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 777.594         | 6.98        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 795.2           | -55.88      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2668.834        | -38.48      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5762.395        | -49.75      | -13         | Pass    | 7000        |



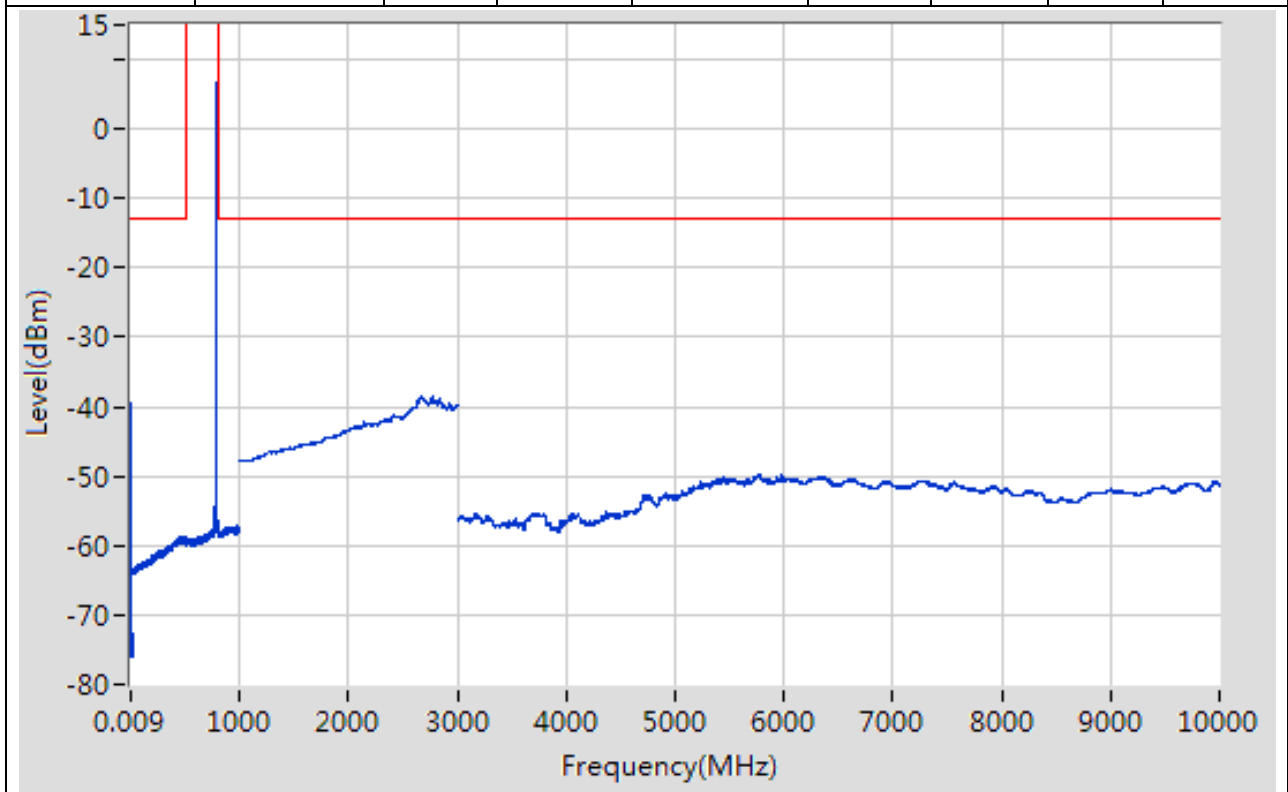
### 1.14. LTE Transmitter Spurious Emissions(NTNV)(Subtest:14, Channel:23230, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

| 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      | 0.011           | -47.28      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -40.26      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 454.79          | -58.78      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 786.397         | 5.87        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 897.15          | -57.34      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2668.834        | -38.49      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5769.396        | -49.62      | -13         | Pass    | 7000        |



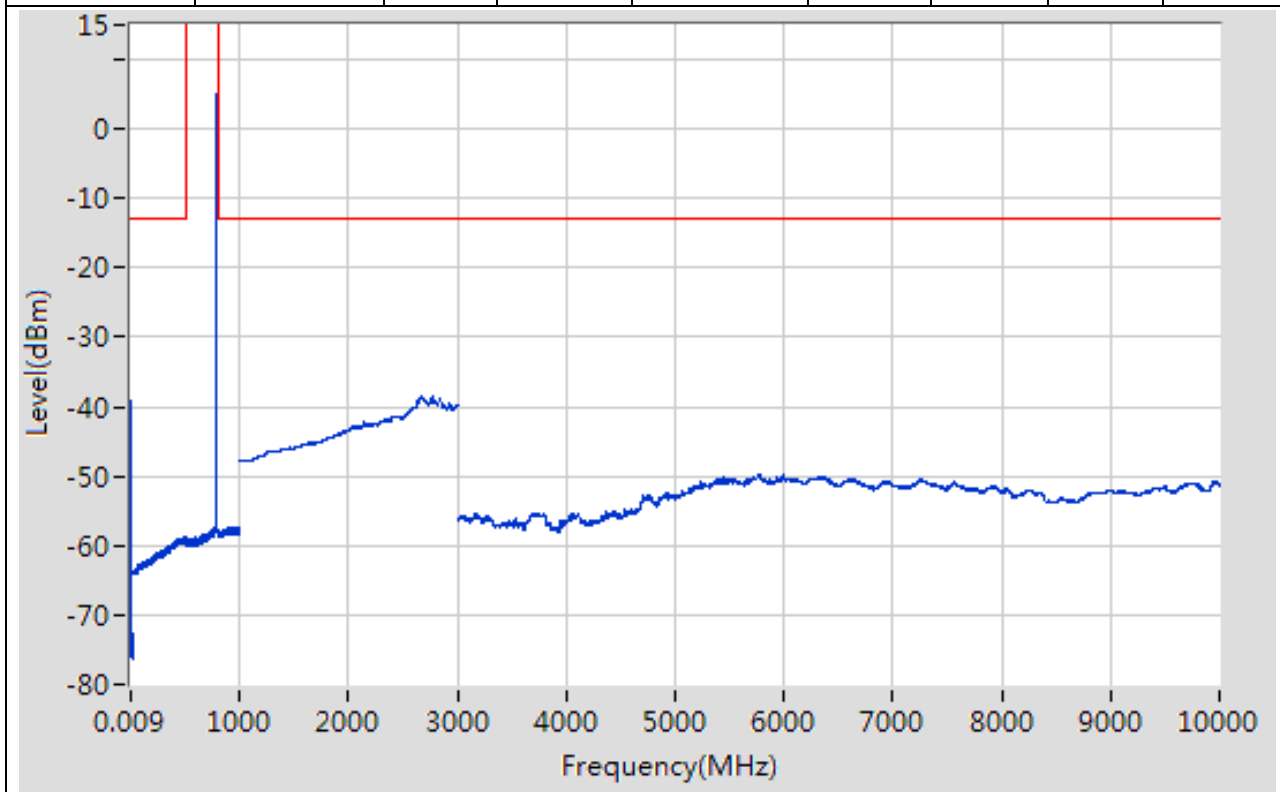
### 1.15. LTE Transmitter Spurious Emissions(NTNV)(Subtest:15, Channel:23230, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

| 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      | 0.009           | -47.03      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.52      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 497.399         | -58.72      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 777.594         | 6.62        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 795.2           | -56.41      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2670.835        | -38.5       | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5770.396        | -49.72      | -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            | -47.16      | -13         | Pass    | 601         |
| 0.15                  | 30                   | 0.01      | RMS      | 0.15            | -39.11      | -13         | Pass    | 2985        |
| 30                    | 500                  | 0.1       | RMS      | 487.097         | -58.84      | -13         | Pass    | 4700        |
| 500                   | 795                  | 0.1       | RMS      | 786.397         | 5.18        | 60          | Pass    | 2950        |
| 795                   | 1000                 | 0.1       | RMS      | 999.4           | -57.27      | -13         | Pass    | 2050        |
| 1000                  | 3000                 | 1         | RMS      | 2670.835        | -38.49      | -13         | Pass    | 2000        |
| 3000                  | 10000                | 1         | RMS      | 5766.395        | -49.75      | -13         | Pass    | 7000        |



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END