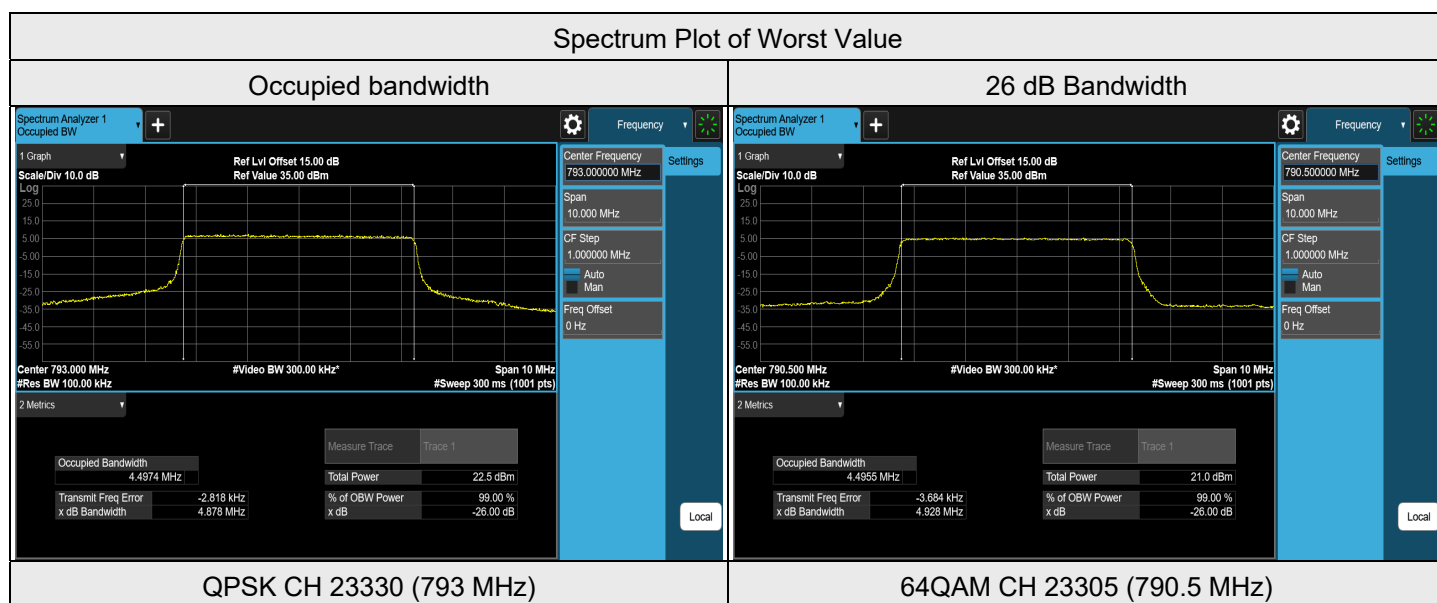


7.4.6 LTE Band 14

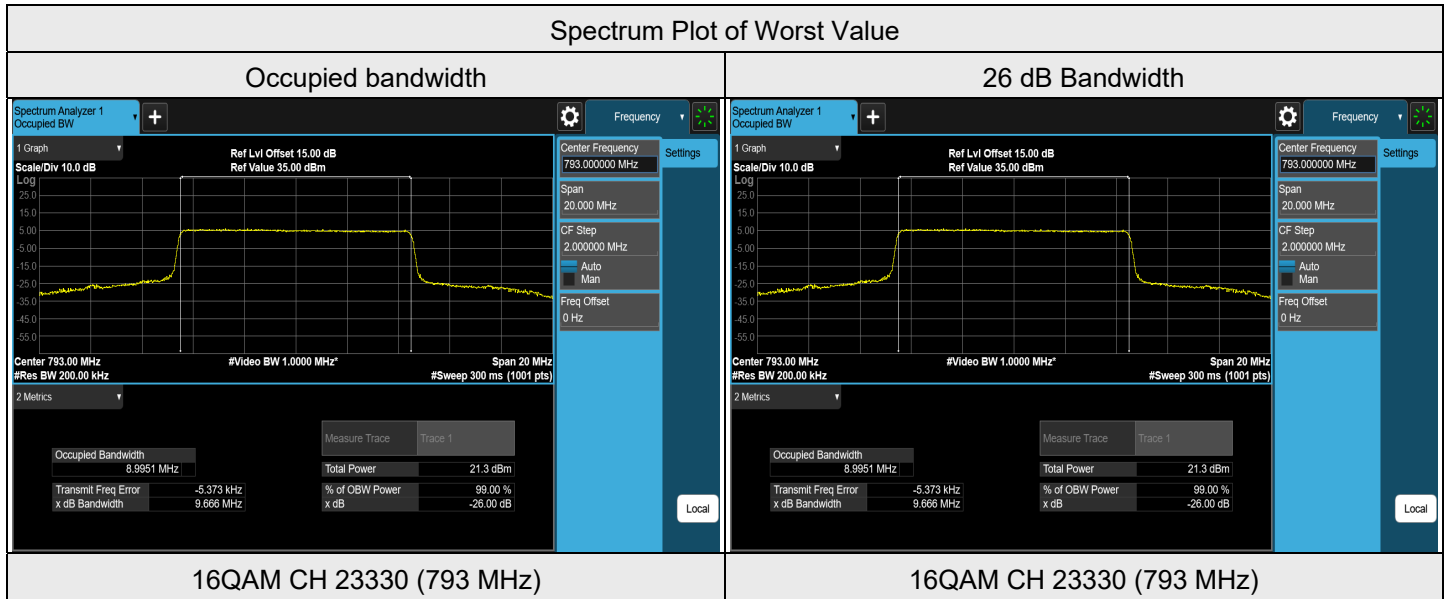
LTE Band 14, Channel Bandwidth: 5 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 23305 | 790.5 | 4.4935 | 4.893 |
| QPSK | 23330 | 793 | 4.4974 | 4.878 |
| QPSK | 23355 | 795.5 | 4.4959 | 4.910 |
| 16QAM | 23305 | 790.5 | 4.4919 | 4.904 |
| 16QAM | 23330 | 793 | 4.4945 | 4.869 |
| 16QAM | 23355 | 795.5 | 4.4943 | 4.876 |
| 64QAM | 23305 | 790.5 | 4.4955 | 4.928 |
| 64QAM | 23330 | 793 | 4.4952 | 4.922 |
| 64QAM | 23355 | 795.5 | 4.4917 | 4.872 |
| 256QAM | 23305 | 790.5 | 4.4939 | 4.895 |
| 256QAM | 23330 | 793 | 4.4961 | 4.852 |
| 256QAM | 23355 | 795.5 | 4.4960 | 4.895 |



LTE Band 14, Channel Bandwidth: 10 MHz

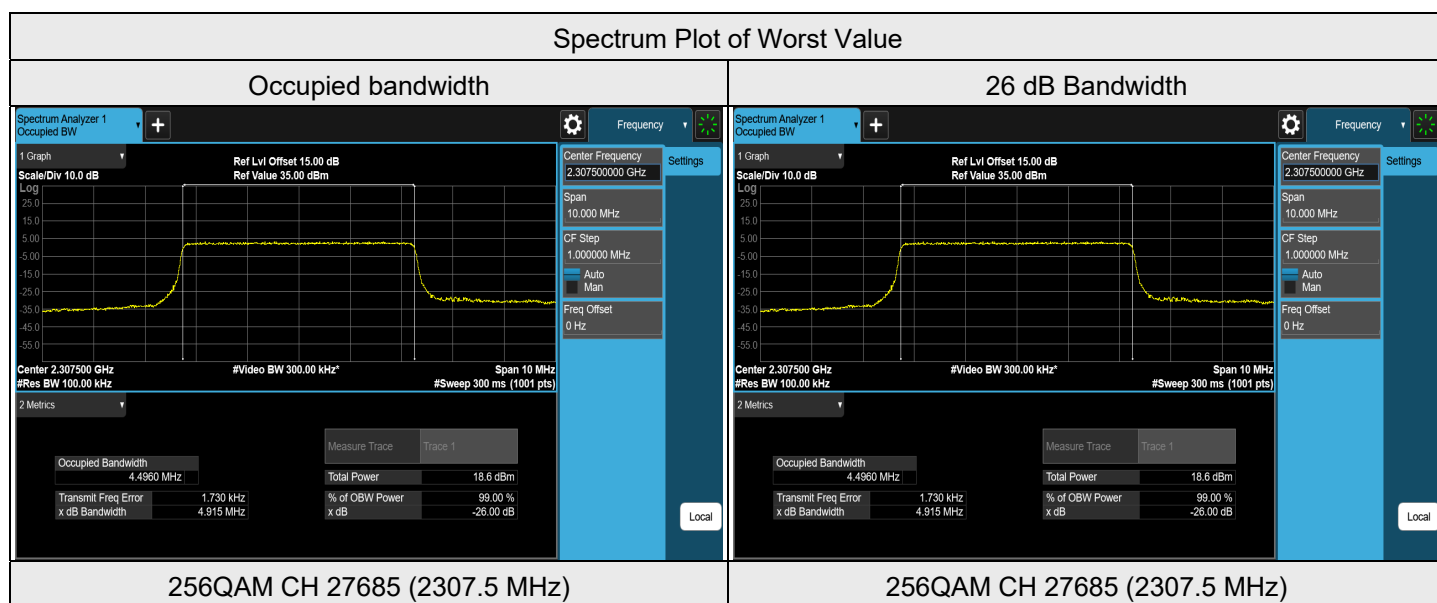
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 23330 | 793 | 8.9903 | 9.646 |
| 16QAM | 23330 | 793 | 8.9951 | 9.666 |
| 64QAM | 23330 | 793 | 8.9835 | 9.655 |
| 256QAM | 23330 | 793 | 8.9843 | 9.588 |



7.4.7 LTE Band 30

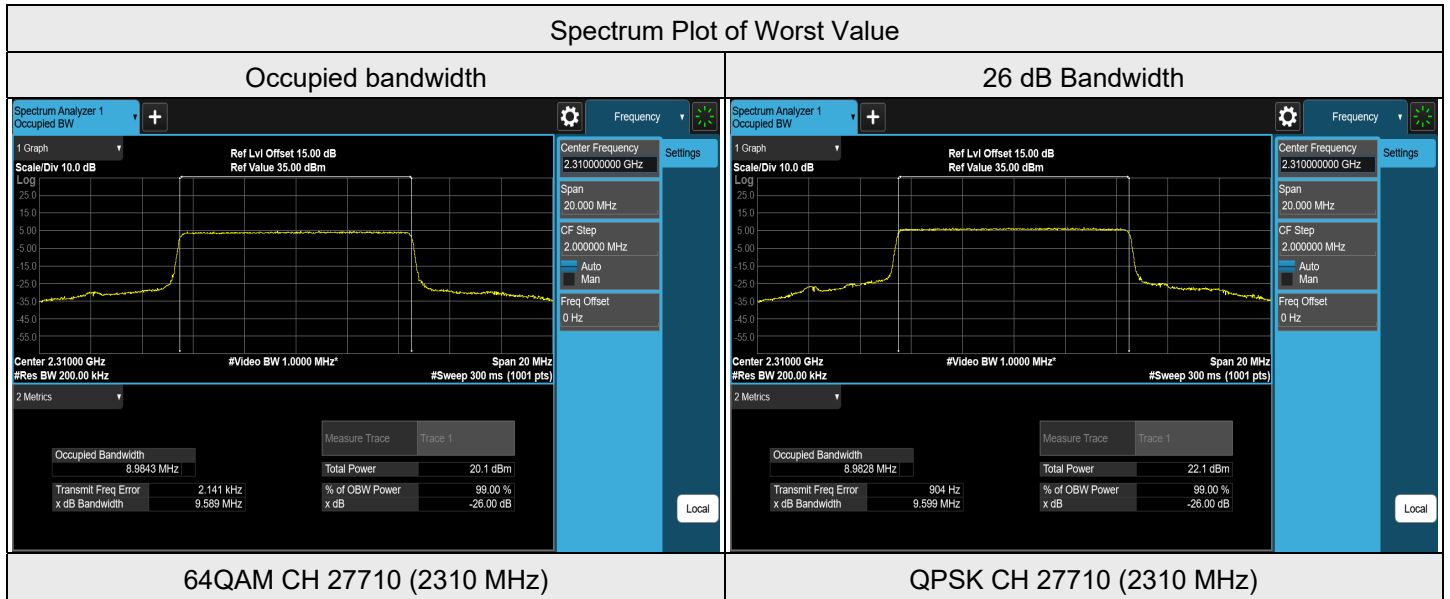
LTE Band 30, Channel Bandwidth: 5 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 27685 | 2307.5 | 4.4936 | 4.865 |
| QPSK | 27710 | 2310 | 4.4953 | 4.906 |
| QPSK | 27735 | 2312.5 | 4.4901 | 4.906 |
| 16QAM | 27685 | 2307.5 | 4.4946 | 4.879 |
| 16QAM | 27710 | 2310 | 4.4945 | 4.871 |
| 16QAM | 27735 | 2312.5 | 4.4901 | 4.874 |
| 64QAM | 27685 | 2307.5 | 4.4921 | 4.813 |
| 64QAM | 27710 | 2310 | 4.4927 | 4.901 |
| 64QAM | 27735 | 2312.5 | 4.4902 | 4.876 |
| 256QAM | 27685 | 2307.5 | 4.4960 | 4.915 |
| 256QAM | 27710 | 2310 | 4.4932 | 4.881 |
| 256QAM | 27735 | 2312.5 | 4.4919 | 4.867 |



LTE Band 30, Channel Bandwidth: 10 MHz

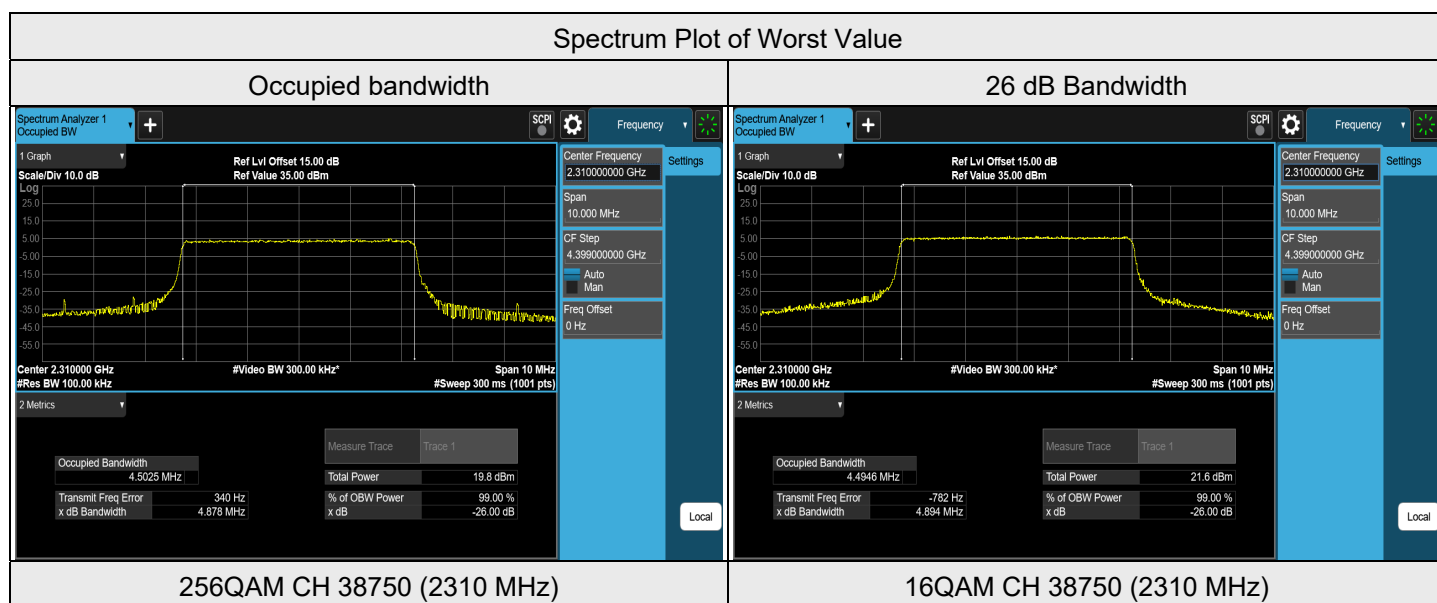
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 27710 | 2310 | 8.9828 | 9.599 |
| 16QAM | 27710 | 2310 | 8.9823 | 9.586 |
| 64QAM | 27710 | 2310 | 8.9843 | 9.589 |
| 256QAM | 27710 | 2310 | 8.9814 | 9.564 |



7.4.8 LTE Band 40 (2.305 GHz ~ 2.315 GHz)

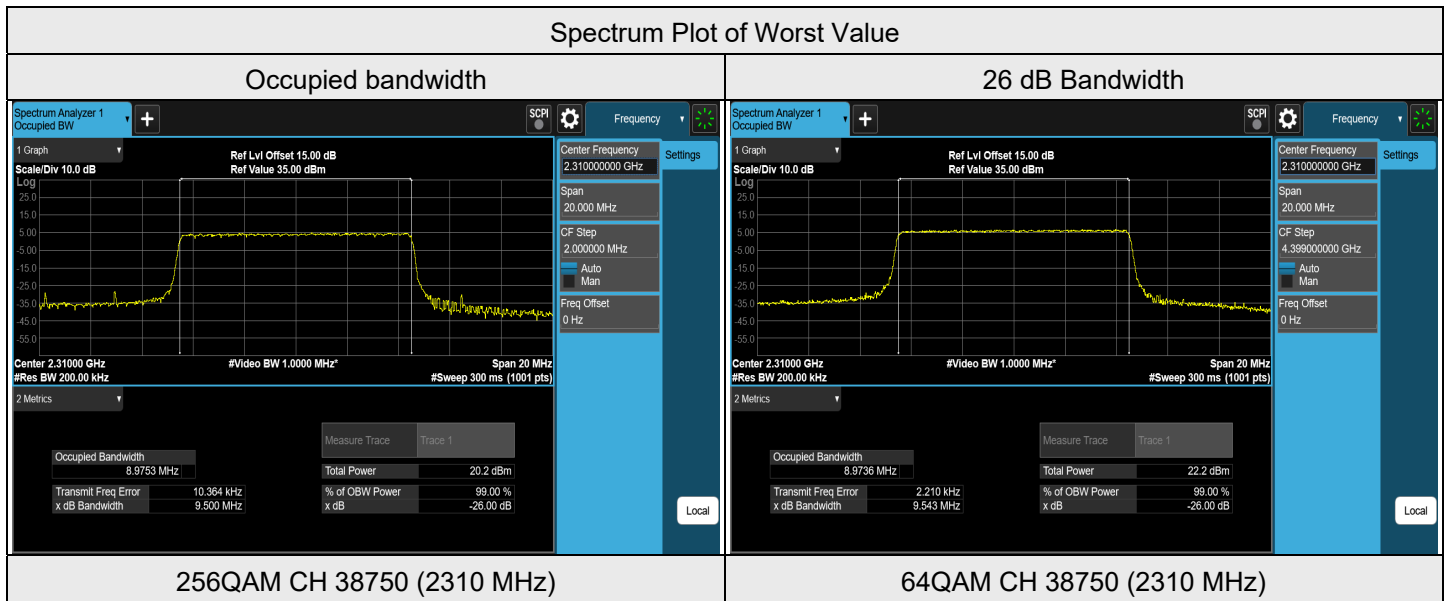
LTE Band 40 (2.305 GHz ~ 2.315 GHz), Channel Bandwidth: 5 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 38725 | 2307.5 | 4.4919 | 4.870 |
| QPSK | 38750 | 2310 | 4.4756 | 4.849 |
| QPSK | 38775 | 2312.5 | 4.4929 | 4.823 |
| 16QAM | 38725 | 2307.5 | 4.4956 | 4.871 |
| 16QAM | 38750 | 2310 | 4.4946 | 4.894 |
| 16QAM | 38775 | 2312.5 | 4.4927 | 4.846 |
| 64QAM | 38725 | 2307.5 | 4.4880 | 4.855 |
| 64QAM | 38750 | 2310 | 4.4989 | 4.892 |
| 64QAM | 38775 | 2312.5 | 4.4962 | 4.885 |
| 256QAM | 38725 | 2307.5 | 4.4968 | 4.863 |
| 256QAM | 38750 | 2310 | 4.5025 | 4.878 |
| 256QAM | 38775 | 2312.5 | 4.4993 | 4.865 |



LTE Band 40 (2.305 GHz ~ 2.315 GHz), Channel Bandwidth: 10 MHz

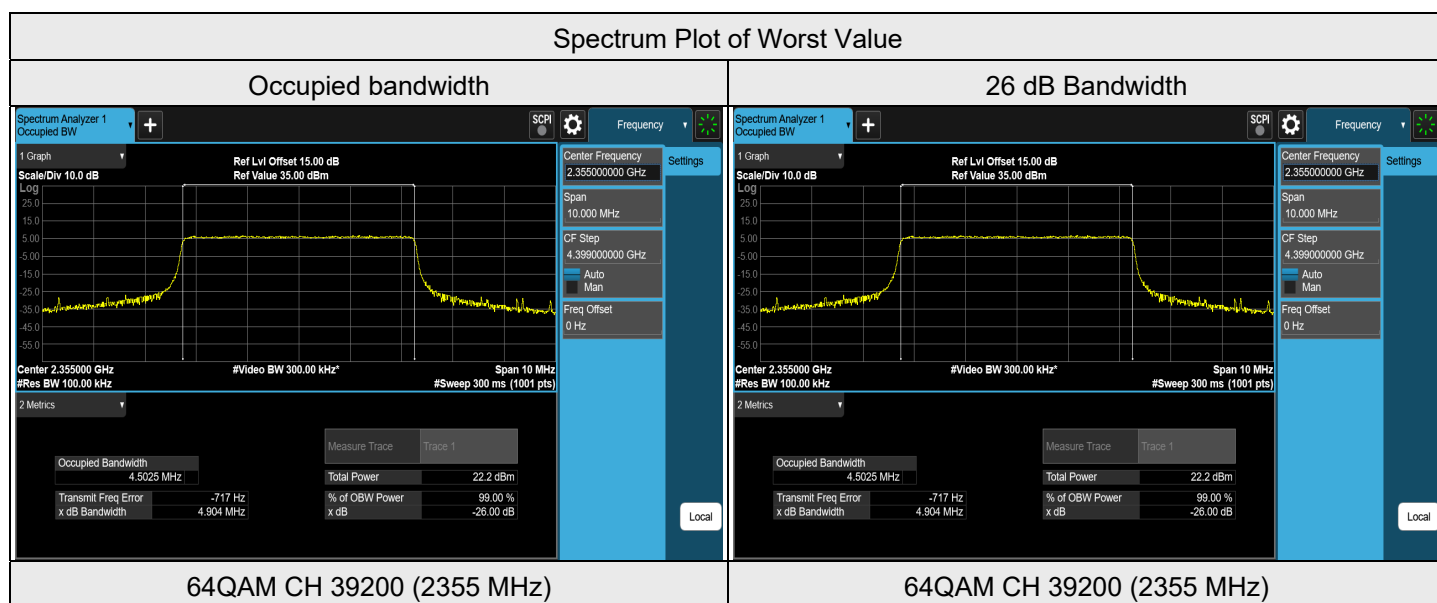
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 38750 | 2310 | 8.9675 | 9.516 |
| 16QAM | 38750 | 2310 | 8.9686 | 9.532 |
| 64QAM | 38750 | 2310 | 8.9736 | 9.543 |
| 256QAM | 38750 | 2310 | 8.9753 | 9.500 |



7.4.9 LTE Band 40 (2.35 GHz ~ 2.36 GHz)

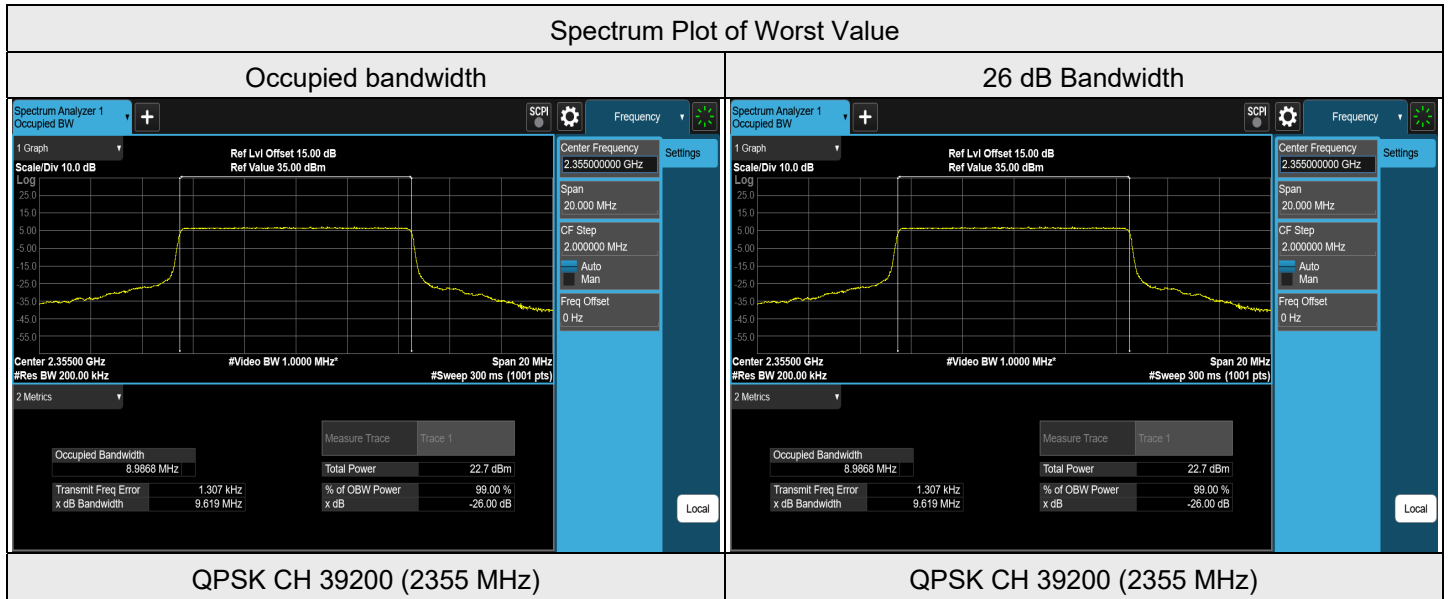
LTE Band 40 (2.35 GHz ~ 2.36 GHz), Channel Bandwidth: 5 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 39175 | 2352.5 | 4.4951 | 4.882 |
| QPSK | 39200 | 2355 | 4.5007 | 4.899 |
| QPSK | 39225 | 2357.5 | 4.4834 | 4.831 |
| 16QAM | 39175 | 2352.5 | 4.4906 | 4.838 |
| 16QAM | 39200 | 2355 | 4.4349 | 4.887 |
| 16QAM | 39225 | 2357.5 | 4.4969 | 4.903 |
| 64QAM | 39175 | 2352.5 | 4.4992 | 4.896 |
| 64QAM | 39200 | 2355 | 4.5025 | 4.904 |
| 64QAM | 39225 | 2357.5 | 4.4986 | 4.890 |
| 256QAM | 39175 | 2352.5 | 4.5014 | 4.880 |
| 256QAM | 39200 | 2355 | 4.4958 | 4.840 |
| 256QAM | 39225 | 2357.5 | 4.4882 | 4.862 |



LTE Band 40 (2.35 GHz ~ 2.36 GHz), Channel Bandwidth: 10 MHz

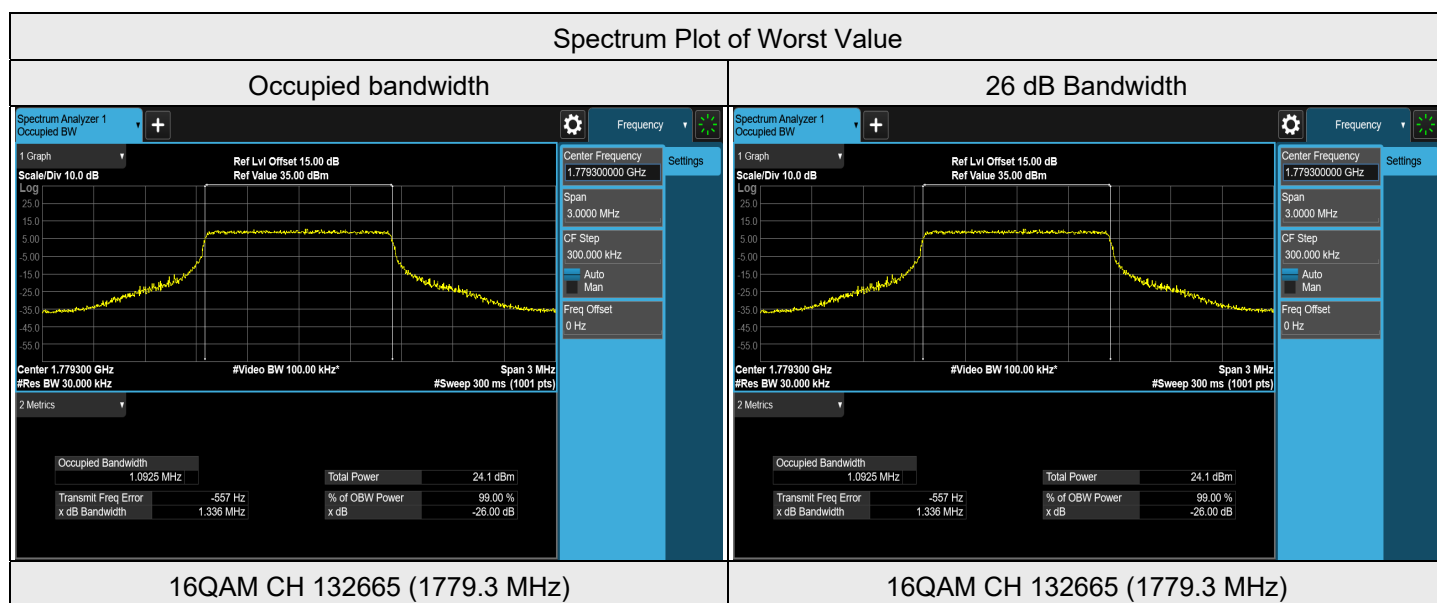
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 39200 | 2355 | 8.9868 | 9.619 |
| 16QAM | 39200 | 2355 | 8.9711 | 9.533 |
| 64QAM | 39200 | 2355 | 8.9747 | 9.570 |
| 256QAM | 39200 | 2355 | 8.9686 | 9.534 |



7.4.10 LTE Band 66

LTE Band 66, Channel Bandwidth: 1.4 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 131979 | 1710.7 | 1.0912 | 1.321 |
| QPSK | 132322 | 1745 | 1.0906 | 1.324 |
| QPSK | 132665 | 1779.3 | 1.0917 | 1.320 |
| 16QAM | 131979 | 1710.7 | 1.0917 | 1.329 |
| 16QAM | 132322 | 1745 | 1.0918 | 1.327 |
| 16QAM | 132665 | 1779.3 | 1.0925 | 1.336 |
| 64QAM | 131979 | 1710.7 | 1.0923 | 1.297 |
| 64QAM | 132322 | 1745 | 1.0913 | 1.301 |
| 64QAM | 132665 | 1779.3 | 1.0918 | 1.286 |
| 256QAM | 131979 | 1710.7 | 1.0877 | 1.311 |
| 256QAM | 132322 | 1745 | 1.0900 | 1.287 |
| 256QAM | 132665 | 1779.3 | 1.0912 | 1.310 |

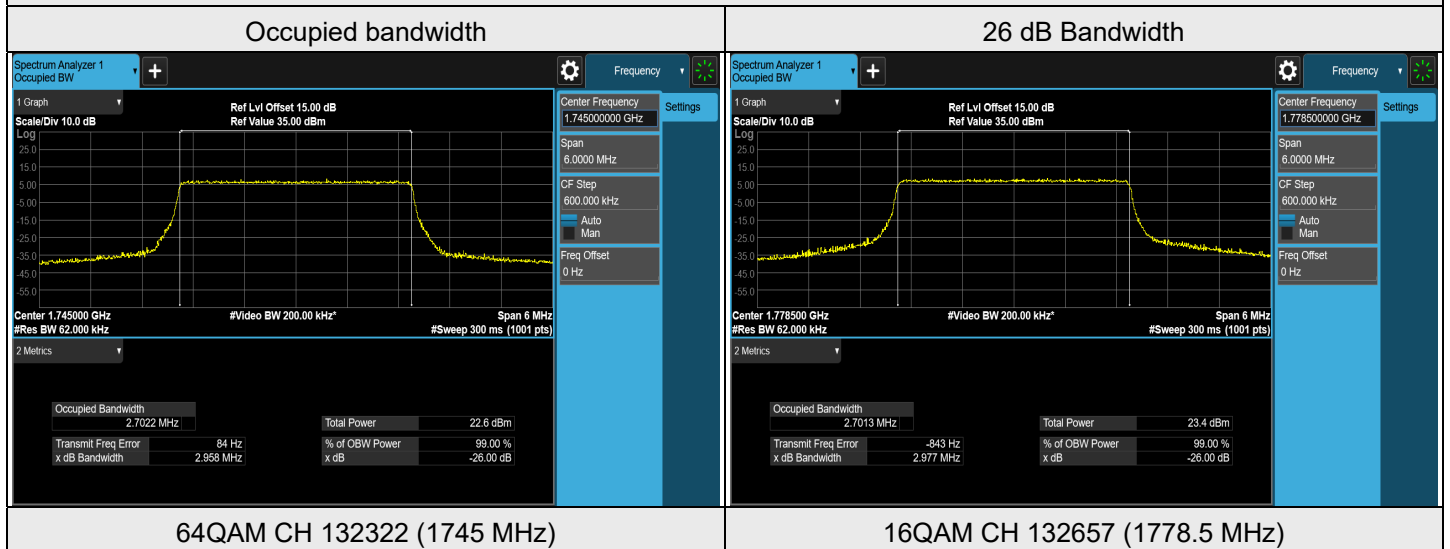




LTE Band 66, Channel Bandwidth: 3 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 131987 | 1711.5 | 2.6995 | 2.961 |
| QPSK | 132322 | 1745 | 2.7008 | 2.943 |
| QPSK | 132657 | 1778.5 | 2.6983 | 2.950 |
| 16QAM | 131987 | 1711.5 | 2.7007 | 2.956 |
| 16QAM | 132322 | 1745 | 2.7011 | 2.972 |
| 16QAM | 132657 | 1778.5 | 2.7013 | 2.977 |
| 64QAM | 131987 | 1711.5 | 2.6985 | 2.968 |
| 64QAM | 132322 | 1745 | 2.7022 | 2.958 |
| 64QAM | 132657 | 1778.5 | 2.6997 | 2.971 |
| 256QAM | 131987 | 1711.5 | 2.7008 | 2.935 |
| 256QAM | 132322 | 1745 | 2.6970 | 2.945 |
| 256QAM | 132657 | 1778.5 | 2.7006 | 2.935 |

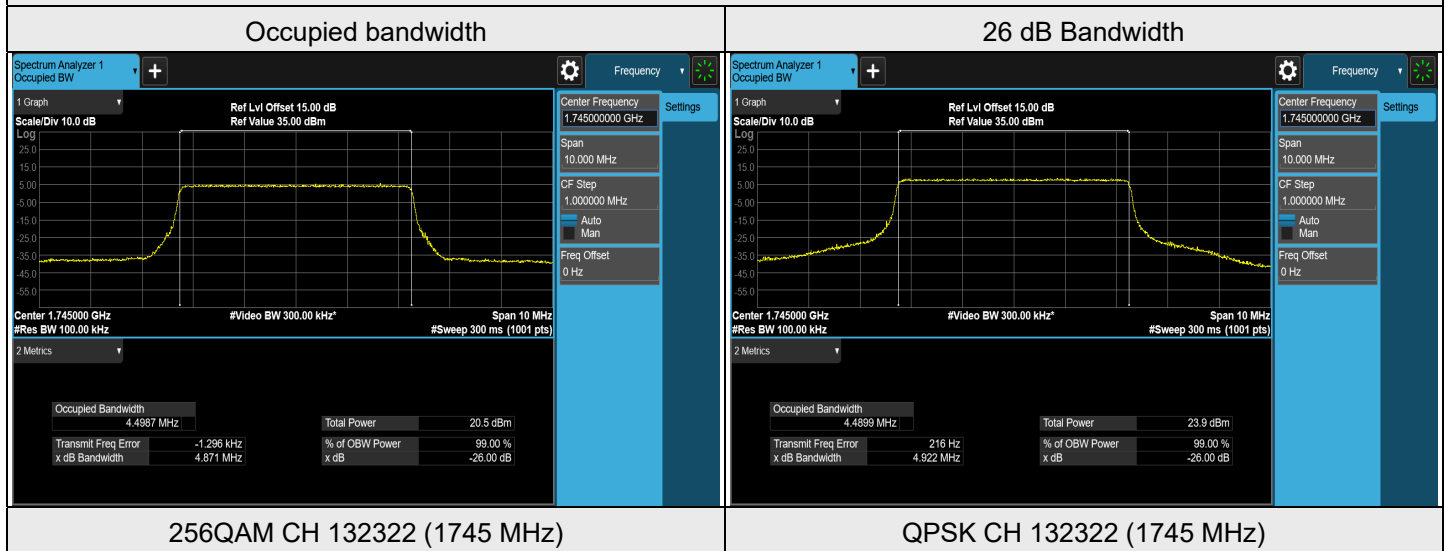
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 5 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 131997 | 1712.5 | 4.4936 | 4.855 |
| QPSK | 132322 | 1745 | 4.4899 | 4.922 |
| QPSK | 132647 | 1777.5 | 4.4948 | 4.885 |
| 16QAM | 131997 | 1712.5 | 4.4927 | 4.908 |
| 16QAM | 132322 | 1745 | 4.4979 | 4.904 |
| 16QAM | 132647 | 1777.5 | 4.4959 | 4.896 |
| 64QAM | 131997 | 1712.5 | 4.4943 | 4.855 |
| 64QAM | 132322 | 1745 | 4.4930 | 4.886 |
| 64QAM | 132647 | 1777.5 | 4.4975 | 4.921 |
| 256QAM | 131997 | 1712.5 | 4.4954 | 4.886 |
| 256QAM | 132322 | 1745 | 4.4987 | 4.871 |
| 256QAM | 132647 | 1777.5 | 4.4975 | 4.859 |

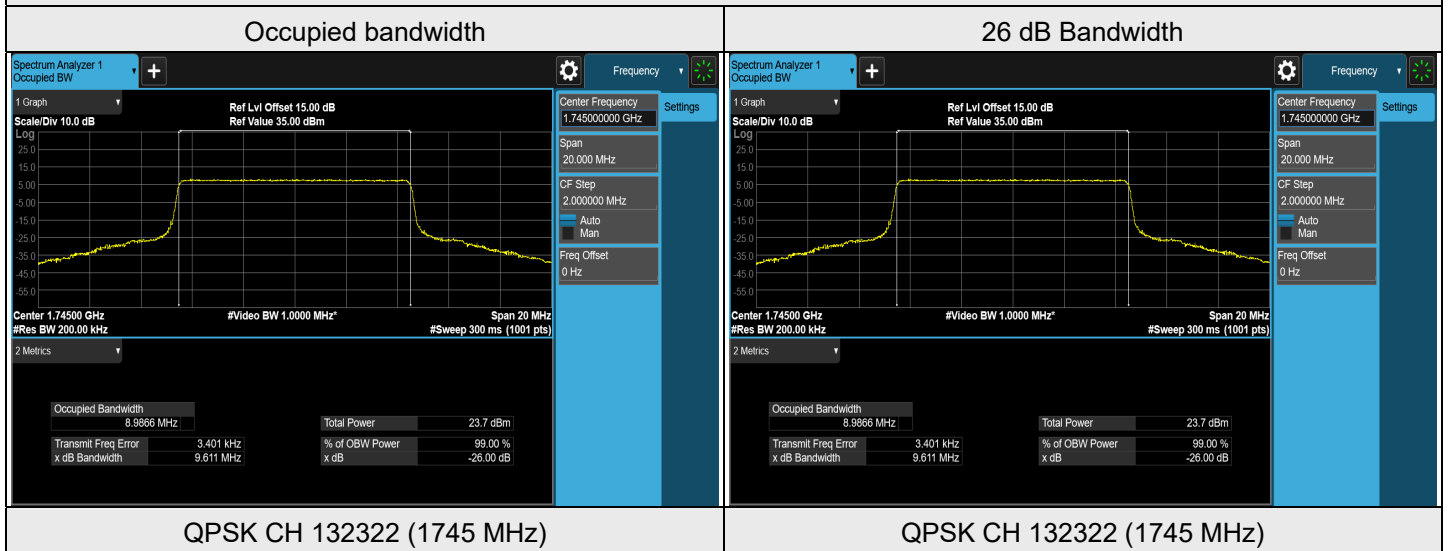
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 10 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 132022 | 1715 | 8.9792 | 9.573 |
| QPSK | 132322 | 1745 | 8.9866 | 9.611 |
| QPSK | 132622 | 1775 | 8.9863 | 9.581 |
| 16QAM | 132022 | 1715 | 8.9852 | 9.575 |
| 16QAM | 132322 | 1745 | 8.9800 | 9.553 |
| 16QAM | 132622 | 1775 | 8.9837 | 9.568 |
| 64QAM | 132022 | 1715 | 8.9783 | 9.552 |
| 64QAM | 132322 | 1745 | 8.9749 | 9.544 |
| 64QAM | 132622 | 1775 | 8.9805 | 9.567 |
| 256QAM | 132022 | 1715 | 8.9743 | 9.545 |
| 256QAM | 132322 | 1745 | 8.9791 | 9.559 |
| 256QAM | 132622 | 1775 | 8.9865 | 9.545 |

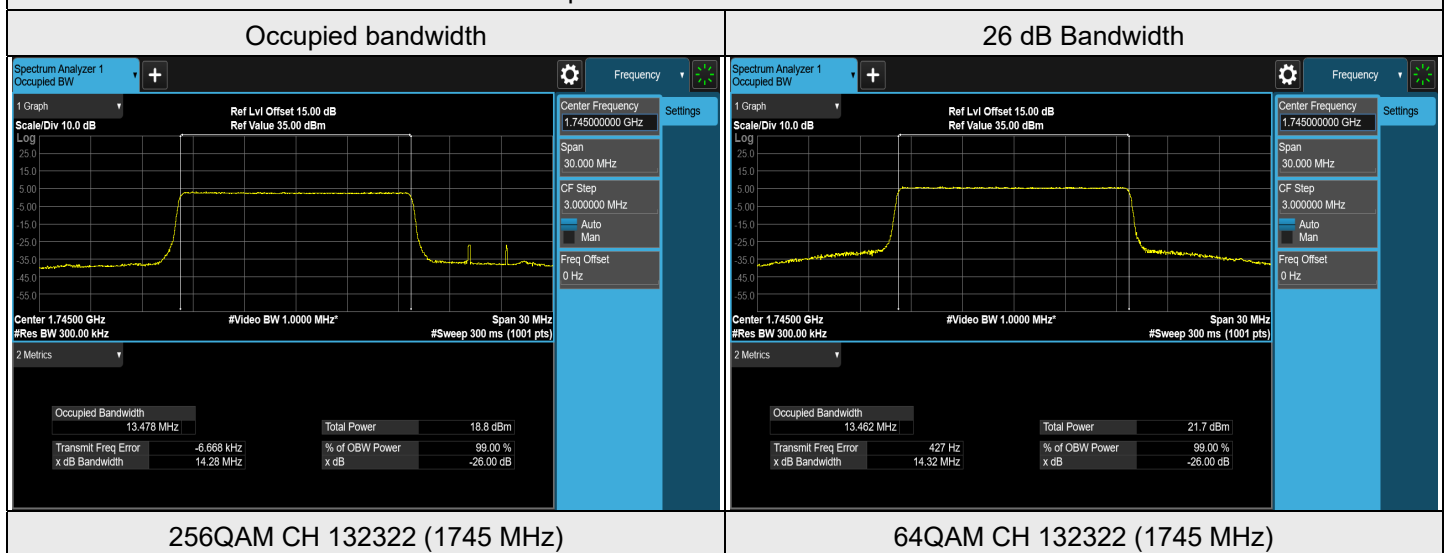
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 15 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 132047 | 1717.5 | 13.4700 | 14.317 |
| QPSK | 132322 | 1745 | 13.4718 | 14.303 |
| QPSK | 132597 | 1772.5 | 13.4768 | 14.311 |
| 16QAM | 132047 | 1717.5 | 13.4627 | 14.281 |
| 16QAM | 132322 | 1745 | 13.4736 | 14.300 |
| 16QAM | 132597 | 1772.5 | 13.4745 | 14.318 |
| 64QAM | 132047 | 1717.5 | 13.4655 | 14.267 |
| 64QAM | 132322 | 1745 | 13.4616 | 14.321 |
| 64QAM | 132597 | 1772.5 | 13.4739 | 14.275 |
| 256QAM | 132047 | 1717.5 | 13.4638 | 14.213 |
| 256QAM | 132322 | 1745 | 13.4777 | 14.276 |
| 256QAM | 132597 | 1772.5 | 13.4725 | 14.244 |

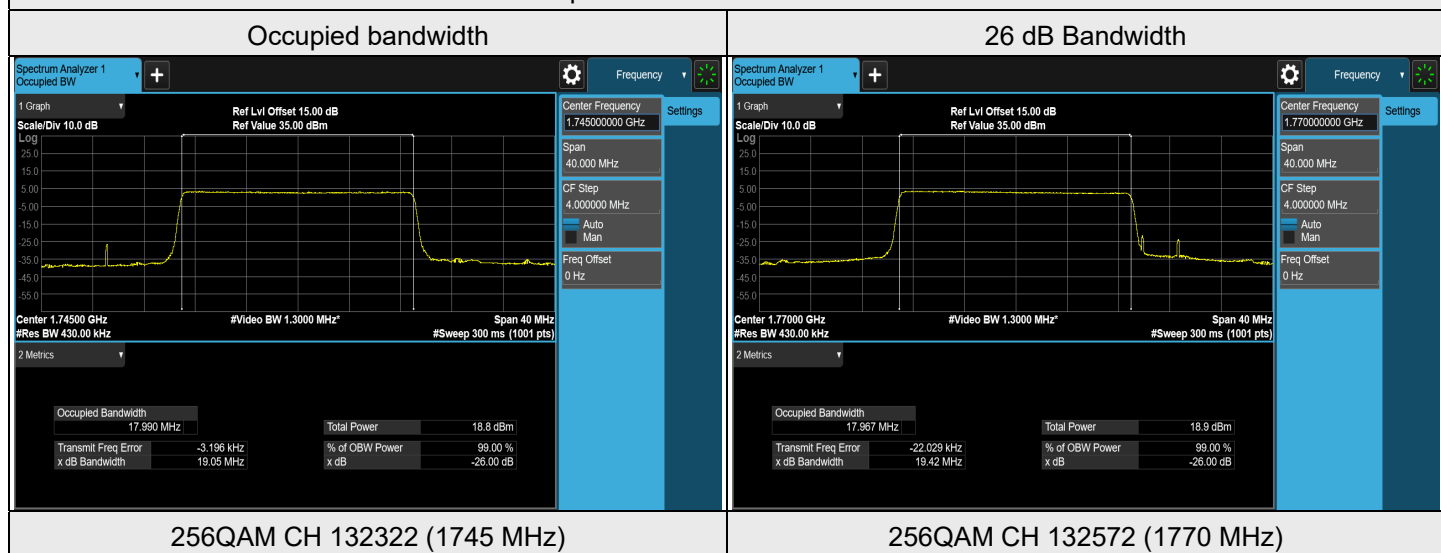
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 20 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| QPSK | 132072 | 1720 | 17.9683 | 19.074 |
| QPSK | 132322 | 1745 | 17.9806 | 19.080 |
| QPSK | 132572 | 1770 | 17.9681 | 19.069 |
| 16QAM | 132072 | 1720 | 17.9710 | 19.065 |
| 16QAM | 132322 | 1745 | 17.9755 | 19.042 |
| 16QAM | 132572 | 1770 | 17.9715 | 19.049 |
| 64QAM | 132072 | 1720 | 17.9645 | 19.036 |
| 64QAM | 132322 | 1745 | 17.9712 | 19.048 |
| 64QAM | 132572 | 1770 | 17.9612 | 19.036 |
| 256QAM | 132072 | 1720 | 17.9727 | 19.004 |
| 256QAM | 132322 | 1745 | 17.9902 | 19.046 |
| 256QAM | 132572 | 1770 | 17.9674 | 19.421 |

Spectrum Plot of Worst Value





7.5 Conducted Spurious Emissions

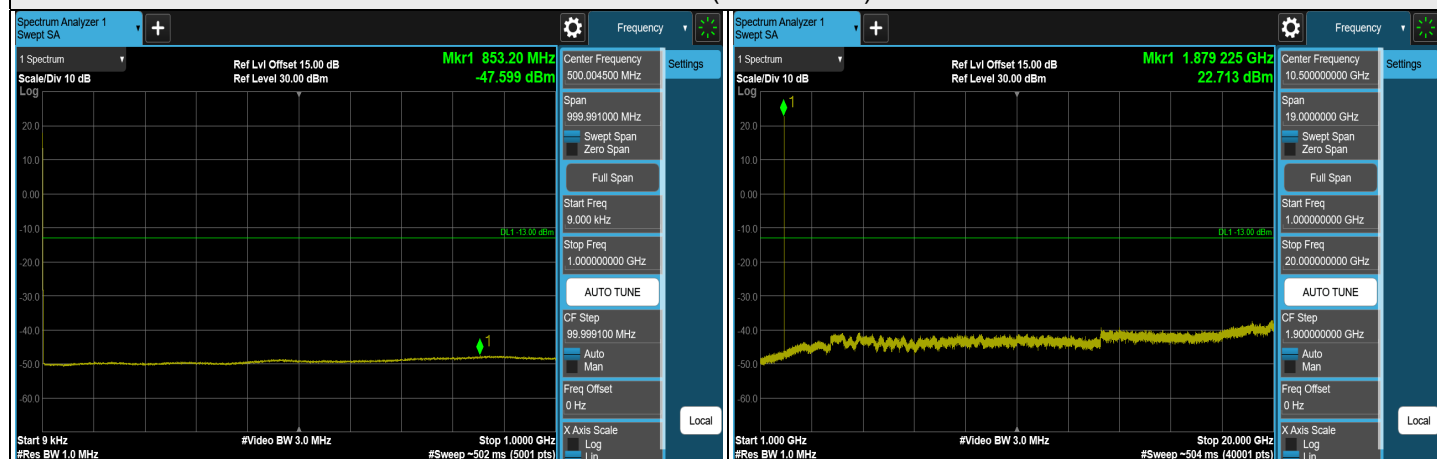
| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 69% RH | Tested By: | Noah Chang |
|--------------|----------------|---------------------------|--------------|------------|------------|

7.5.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz



CH 18607 (1850.7 MHz)



CH 18900 (1880 MHz)

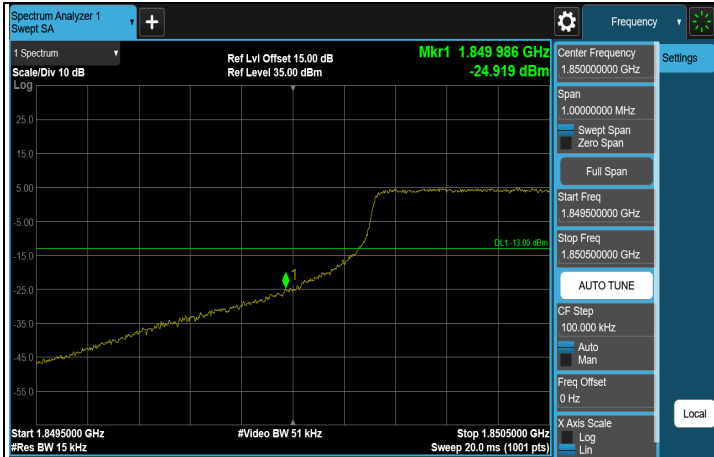


CH 19193 (1909.3 MHz)

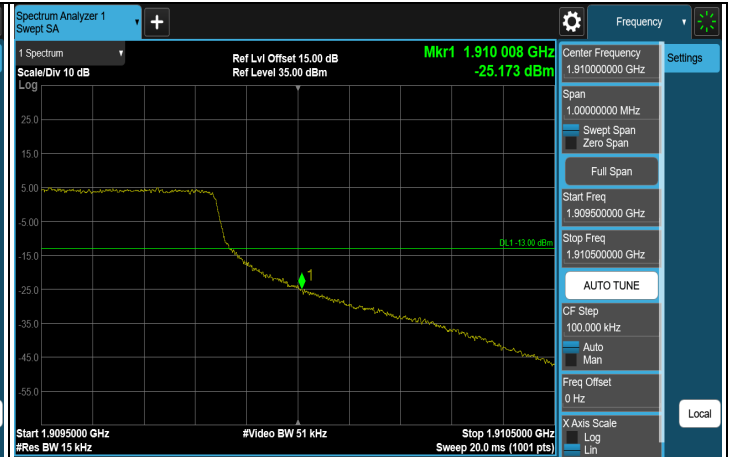
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



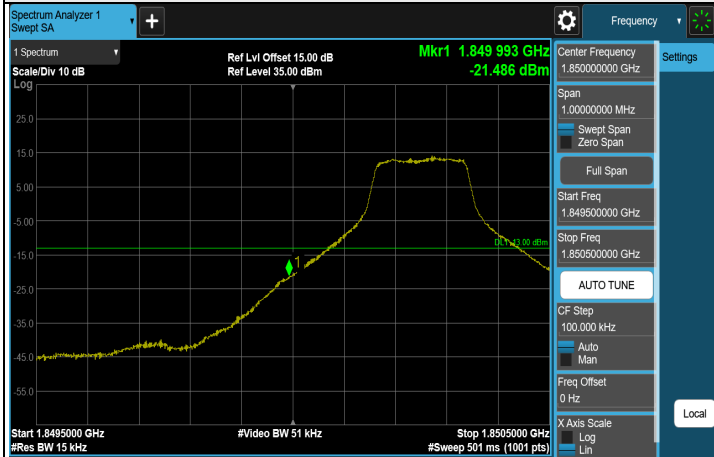
LTE Band 2, Channel Bandwidth: 1.4 MHz



FULL CH 18607 (1850.7 MHz)



FULL CH 19193 (1909.3 MHz)



1RB CH 18607 (1850.7 MHz)



1RB CH 19193 (1909.3 MHz)



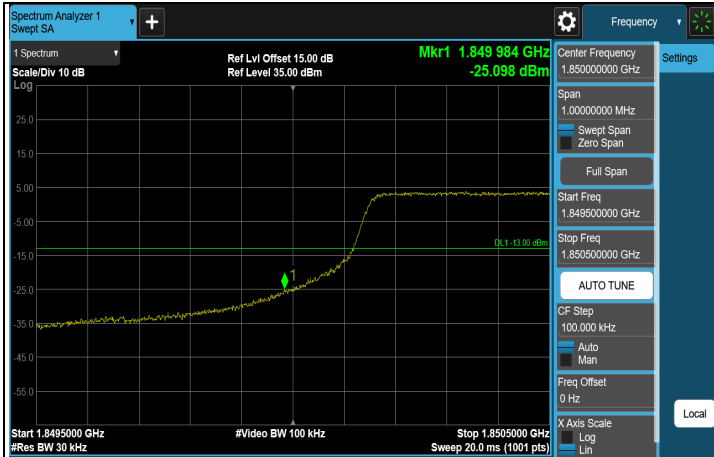
LTE Band 2, Channel Bandwidth: 3 MHz



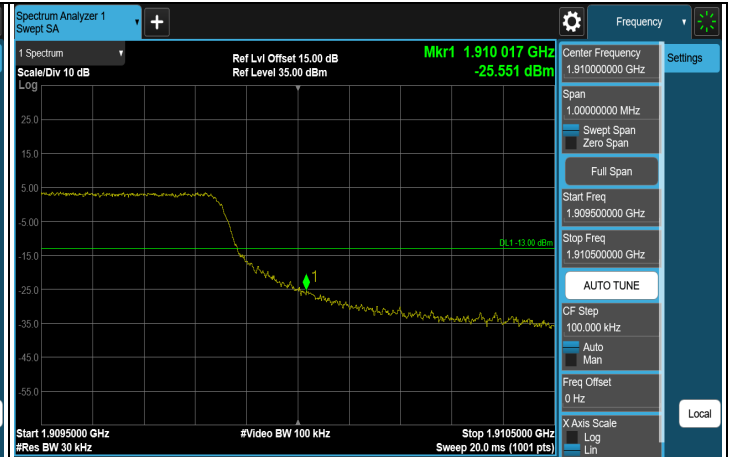
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



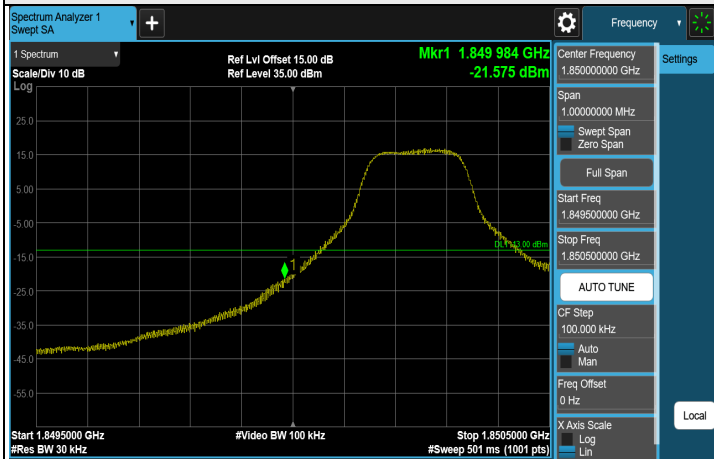
LTE Band 2, Channel Bandwidth: 3 MHz



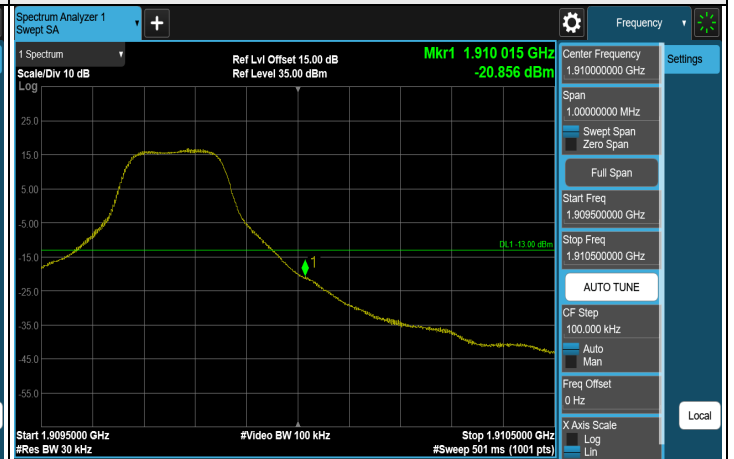
FULL CH 18615 (1851.5 MHz)



FULL CH 19185 (1908.5 MHz)



1RB CH 18615 (1851.5 MHz)



1RB CH 19185 (1908.5 MHz)



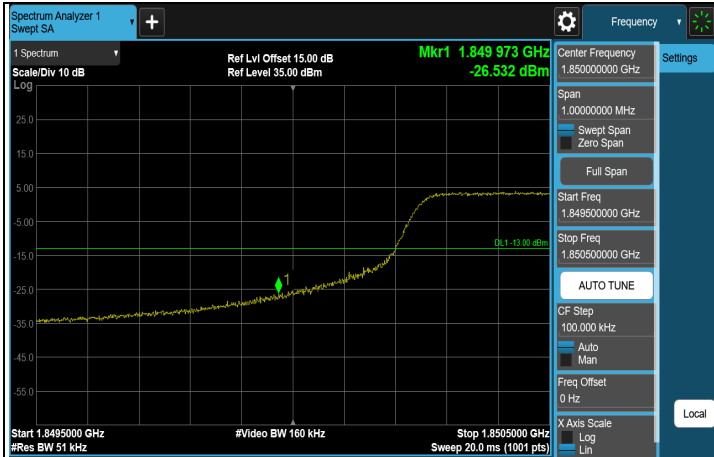
LTE Band 2, Channel Bandwidth: 5 MHz



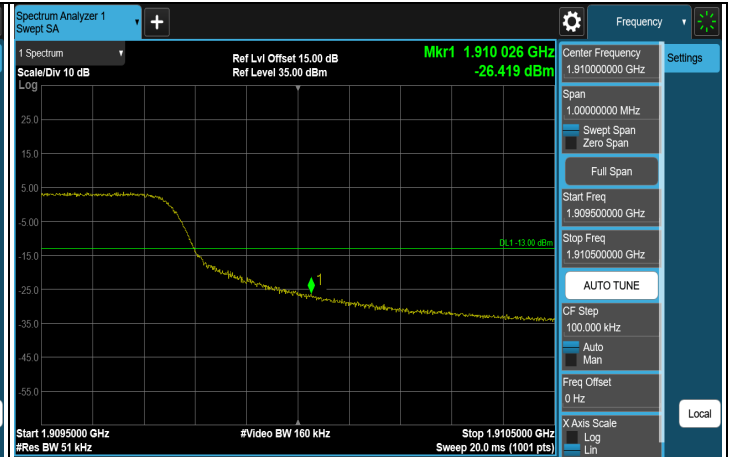
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



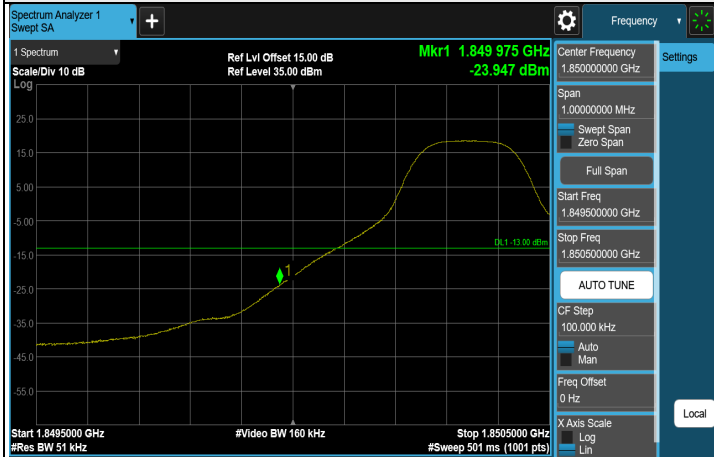
LTE Band 2, Channel Bandwidth: 5 MHz



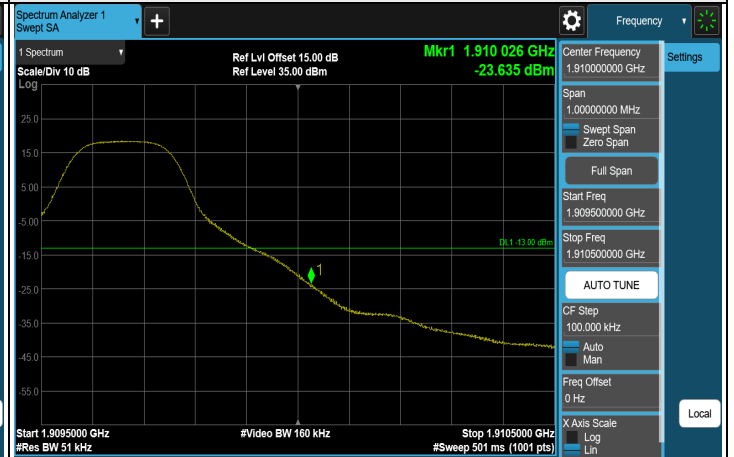
FULL CH 18625 (1852.5 MHz)



FULL CH 19175 (1907.5 MHz)



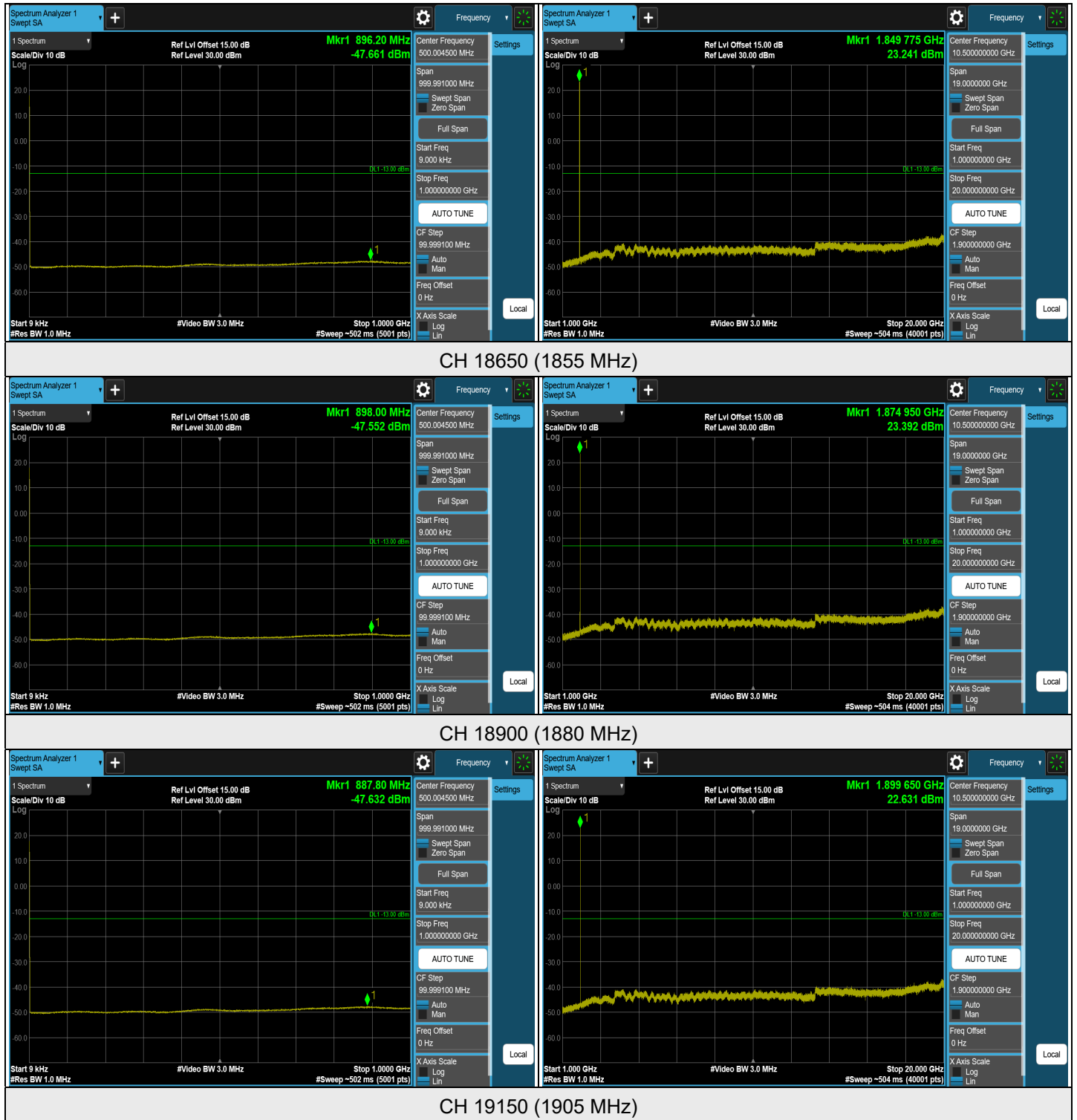
1RB CH 18625 (1852.5 MHz)



1RB CH 19175 (1907.5 MHz)



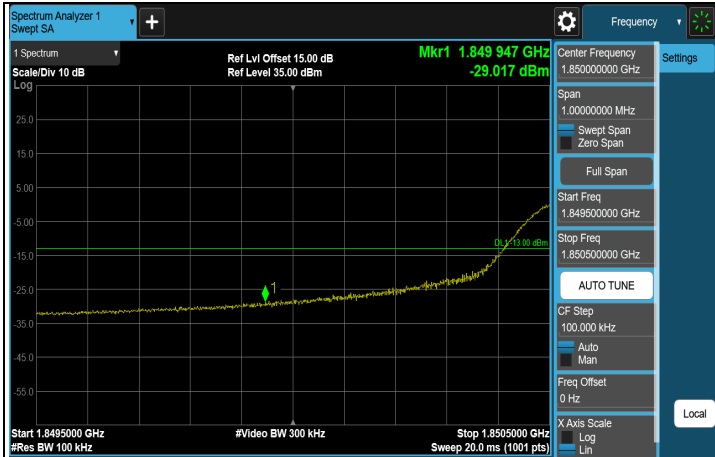
LTE Band 2, Channel Bandwidth: 10 MHz



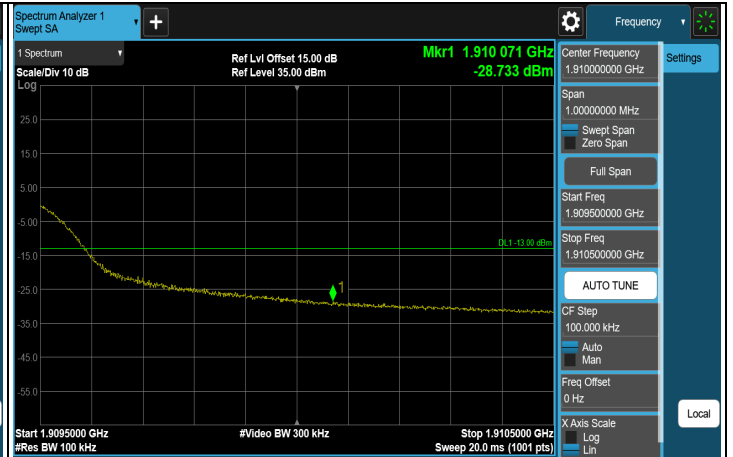
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



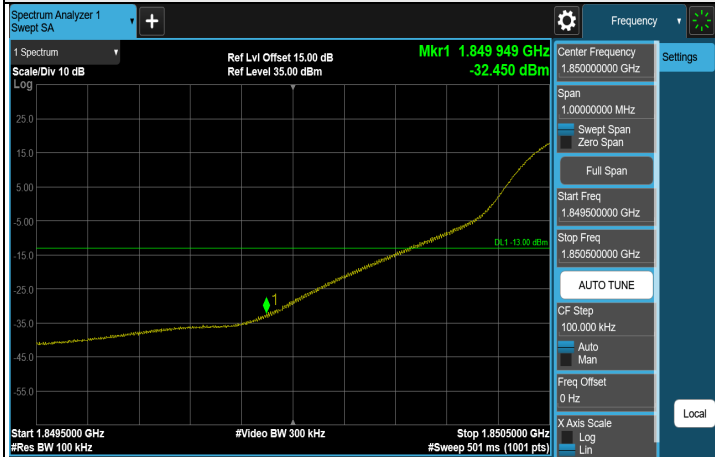
LTE Band 2, Channel Bandwidth: 10 MHz



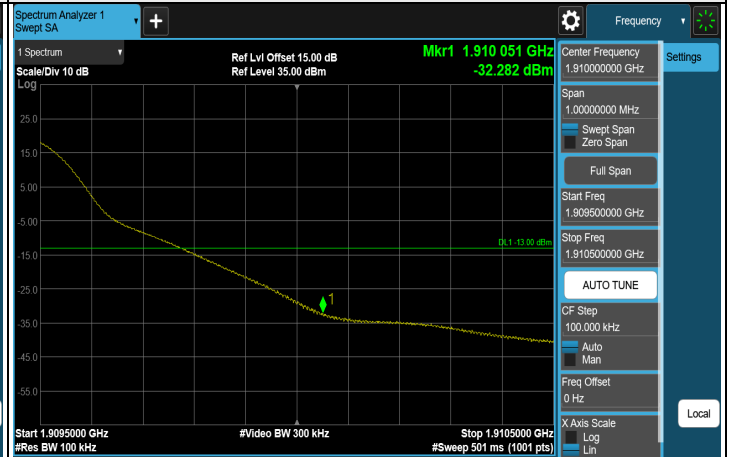
FULL CH 18650 (1855 MHz)



FULL CH 19150 (1905 MHz)



1RB CH 18650 (1855 MHz)



1RB CH 19150 (1905 MHz)



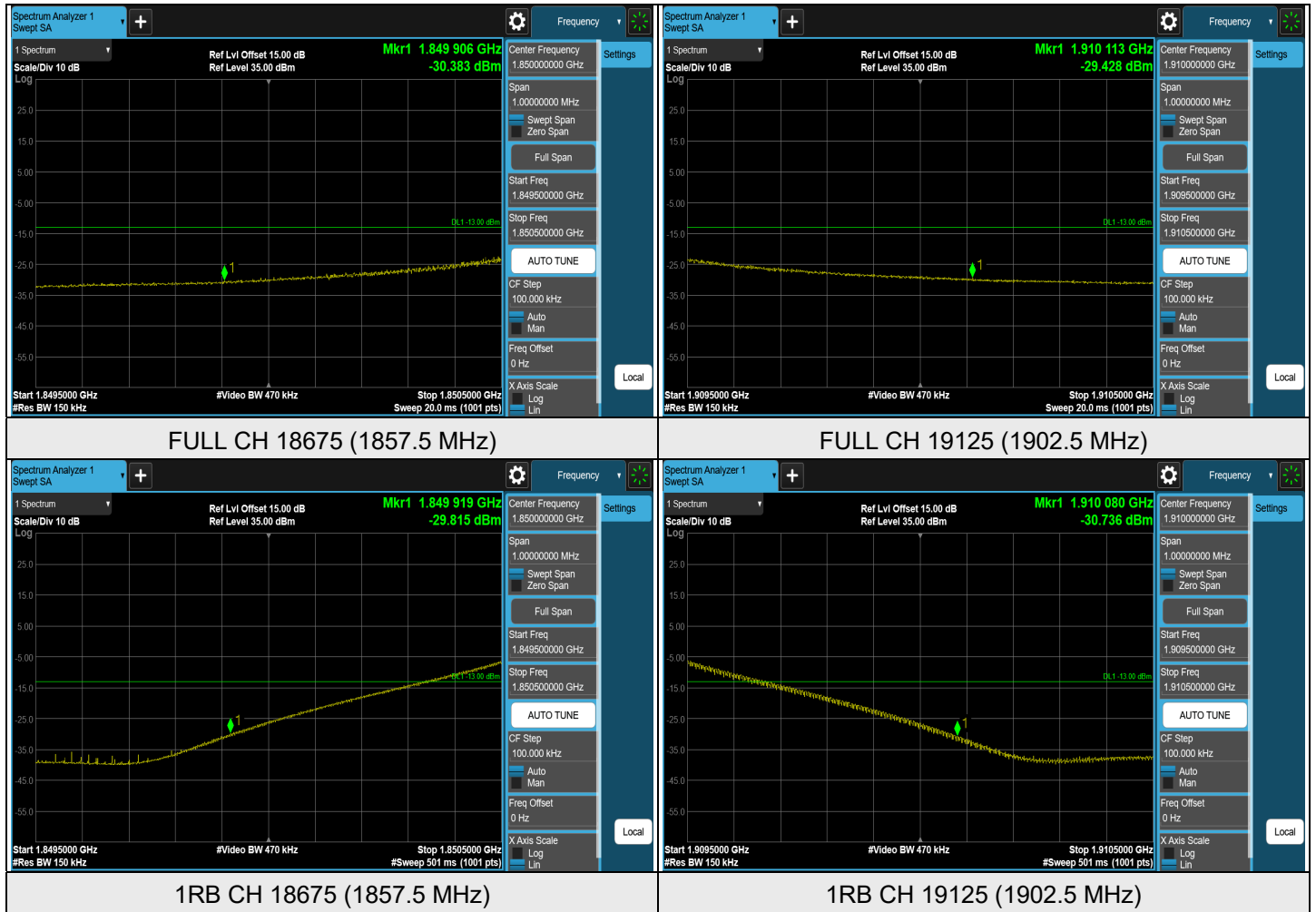
LTE Band 2, Channel Bandwidth: 15 MHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.

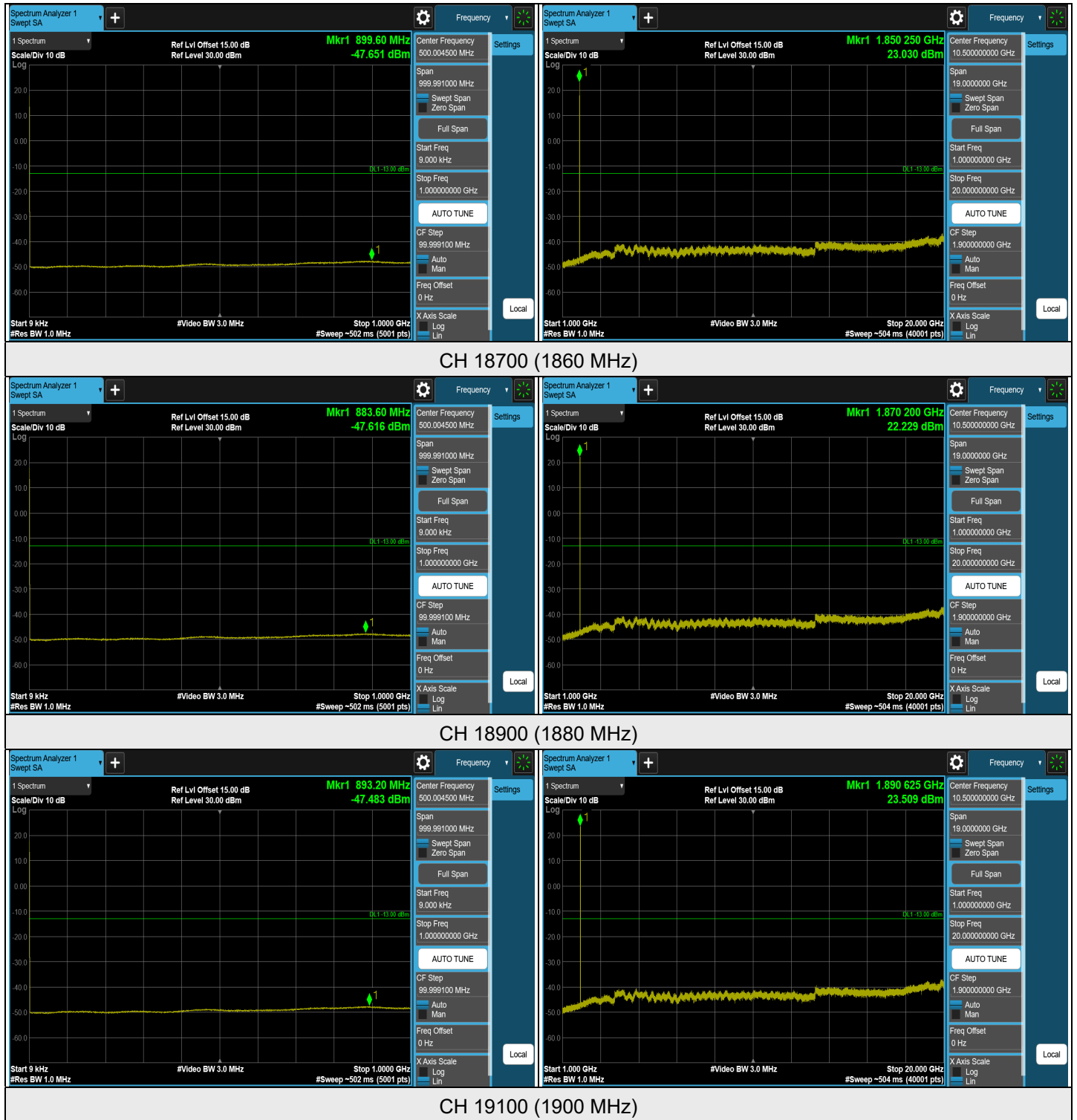


LTE Band 2, Channel Bandwidth: 15 MHz





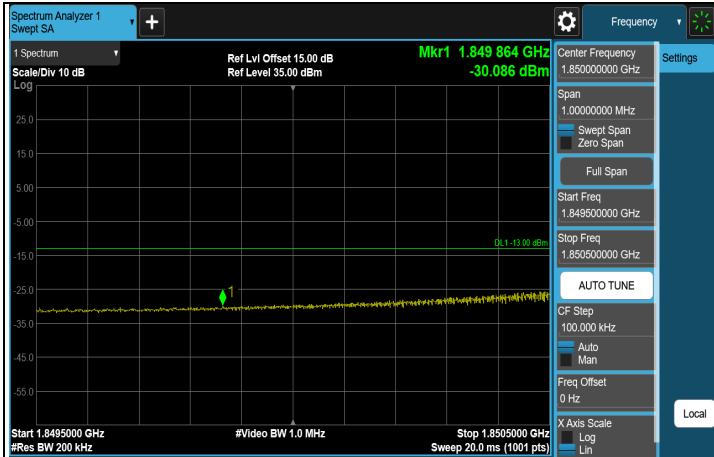
LTE Band 2, Channel Bandwidth: 20 MHz



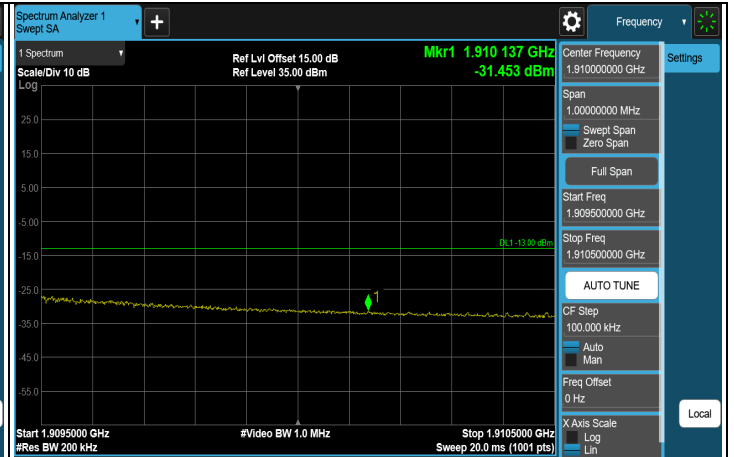
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



LTE Band 2, Channel Bandwidth: 20 MHz



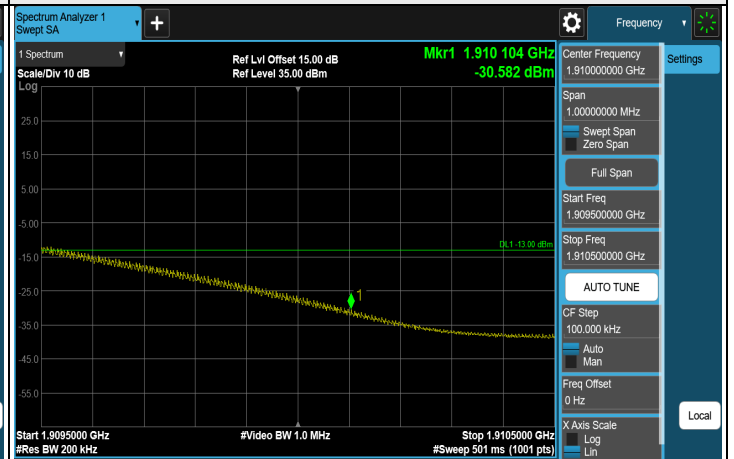
FULL CH 18700 (1860 MHz)



FULL CH 19100 (1900 MHz)



1RB CH 18700 (1860 MHz)



1RB CH 19100 (1900 MHz)



7.5.2 LTE Band 4

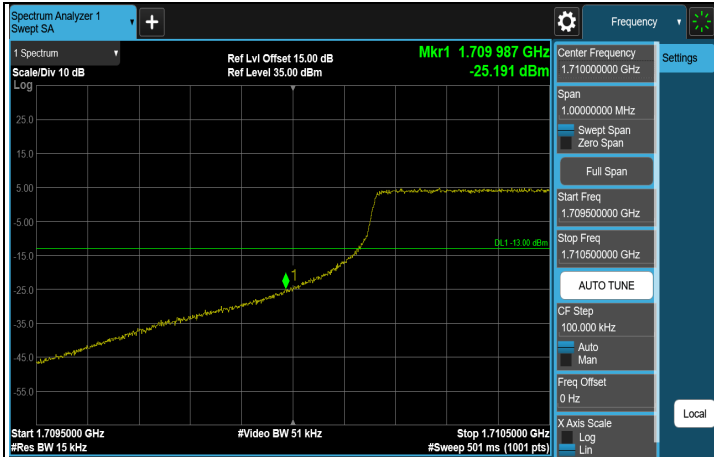
LTE Band 4, Channel Bandwidth: 1.4 MHz



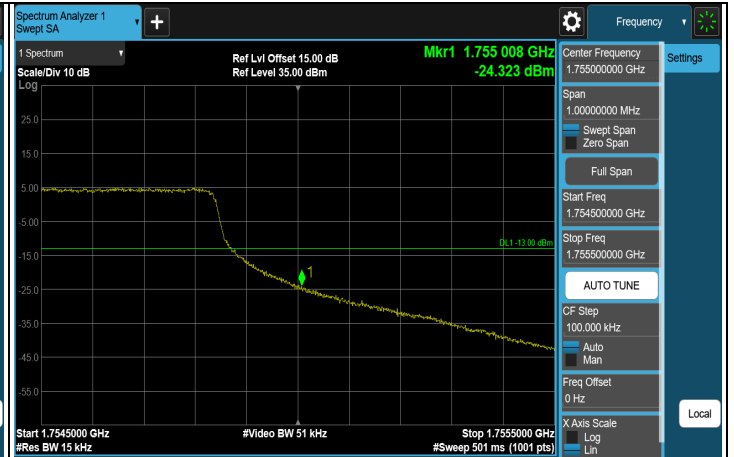
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



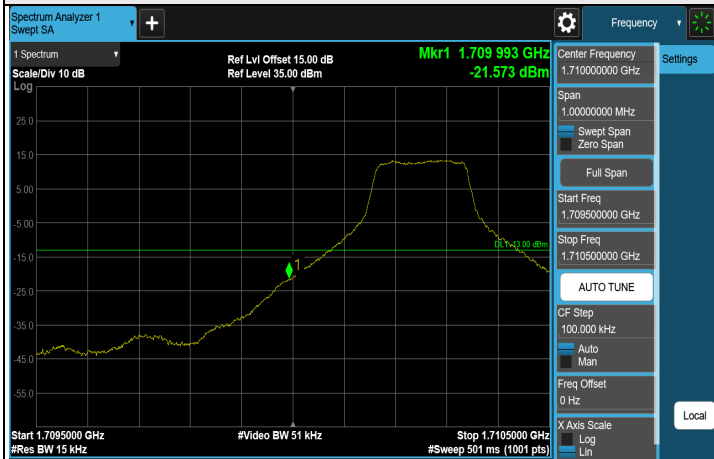
LTE Band 4, Channel Bandwidth: 1.4 MHz



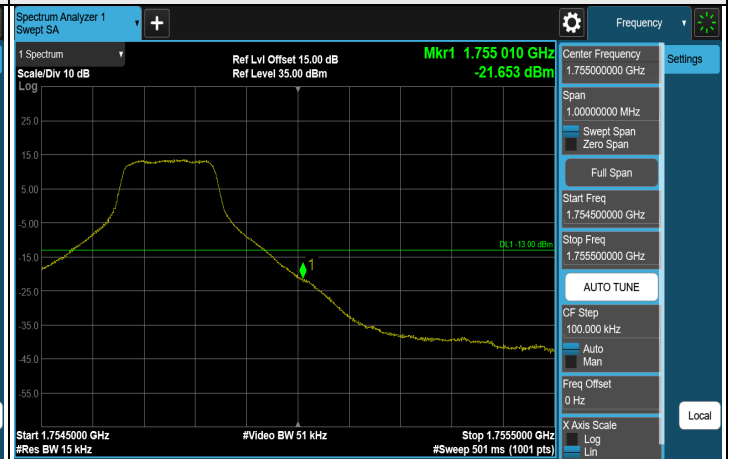
FULL CH 19957 (1710.7 MHz)



FULL CH 20393 (1754.3 MHz)



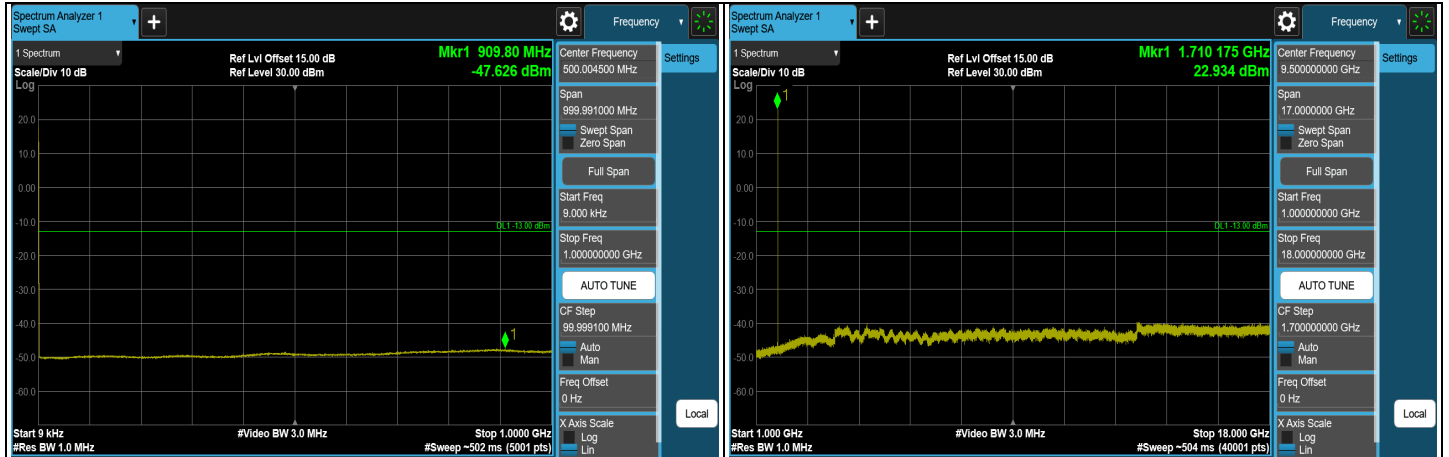
1RB CH 19957 (1710.7 MHz)



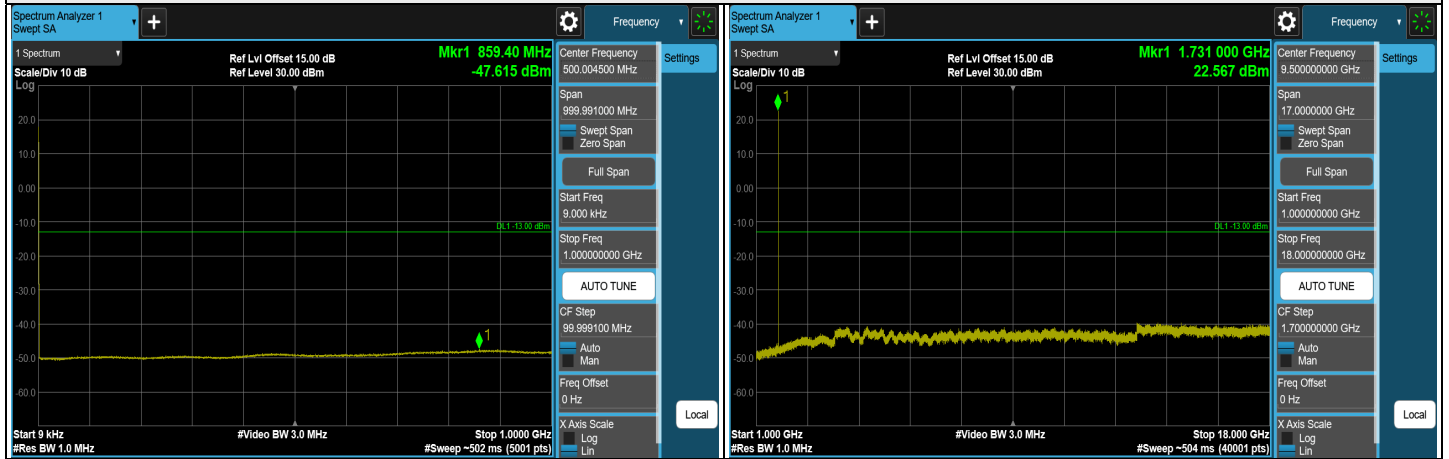
1RB CH 20393 (1754.3 MHz)



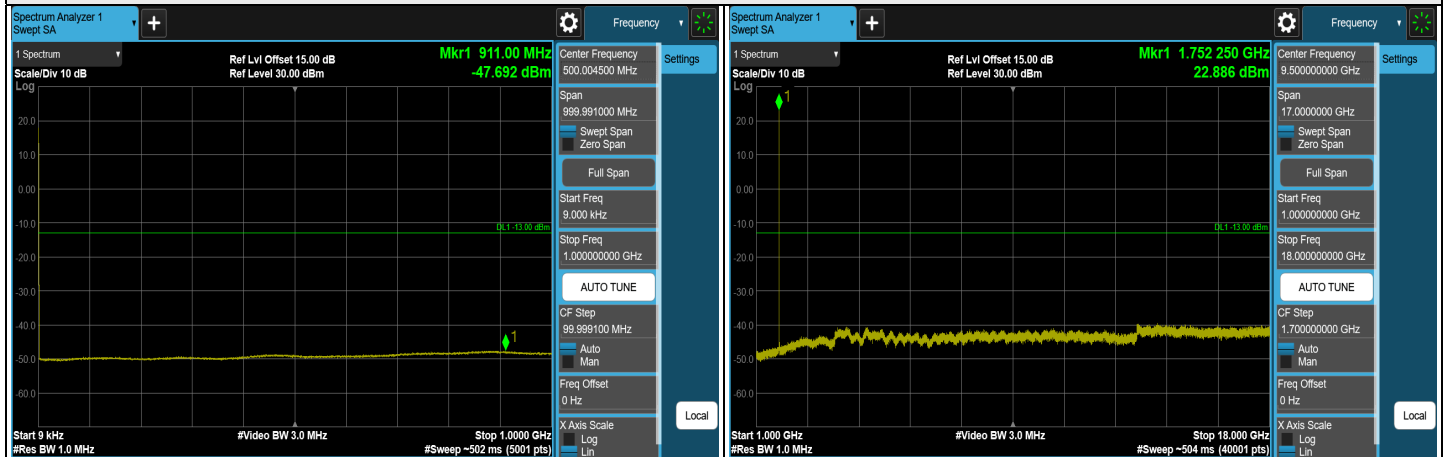
LTE Band 4, Channel Bandwidth: 3 MHz



CH 1965 (1711.5 MHz)



CH 20175 (1732.5 MHz)



CH 20385 (1753.5 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.