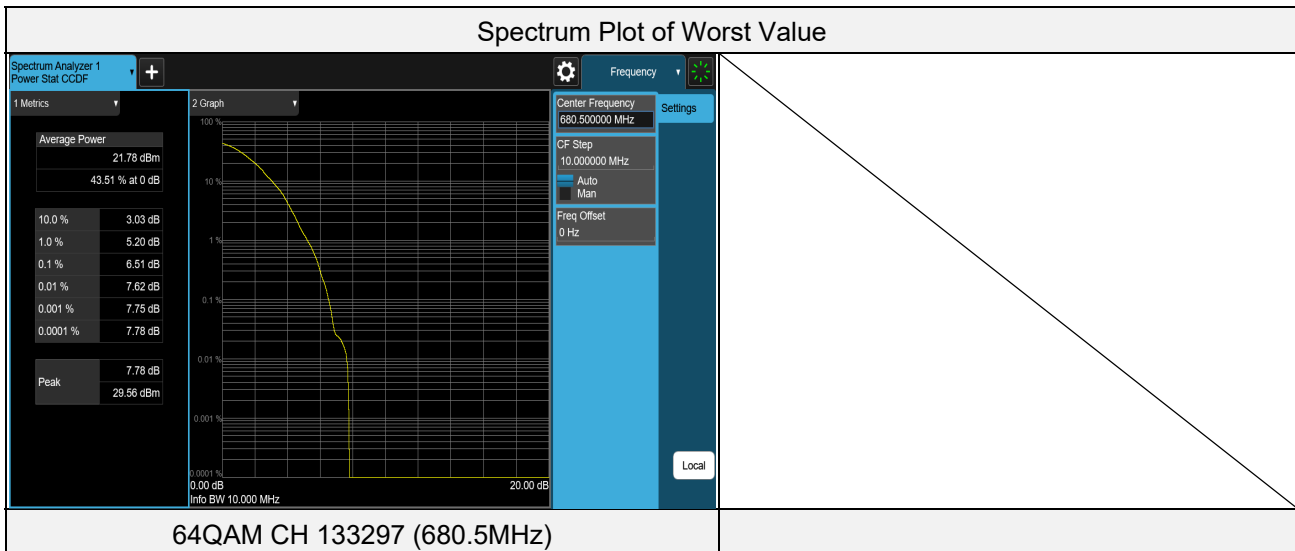


LTE Band 71 (Channel Bandwidth 10MHz)

Test Condition	Channel	Frequency (MHz)	Measure. Value(dB)	Limit dB	Result
QPSK	133172	668	4.60	13	PASS
QPSK	133297	680.5	5.22	13	PASS
QPSK	133422	693	5.12	13	PASS
16QAM	133172	668	5.71	13	PASS
16QAM	133297	680.5	6.43	13	PASS
16QAM	133422	693	6.25	13	PASS
64QAM	133172	668	5.89	13	PASS
64QAM	133297	680.5	6.51	13	PASS
64QAM	133422	693	6.37	13	PASS

NOTE: For the test plots please refer to the below pages.

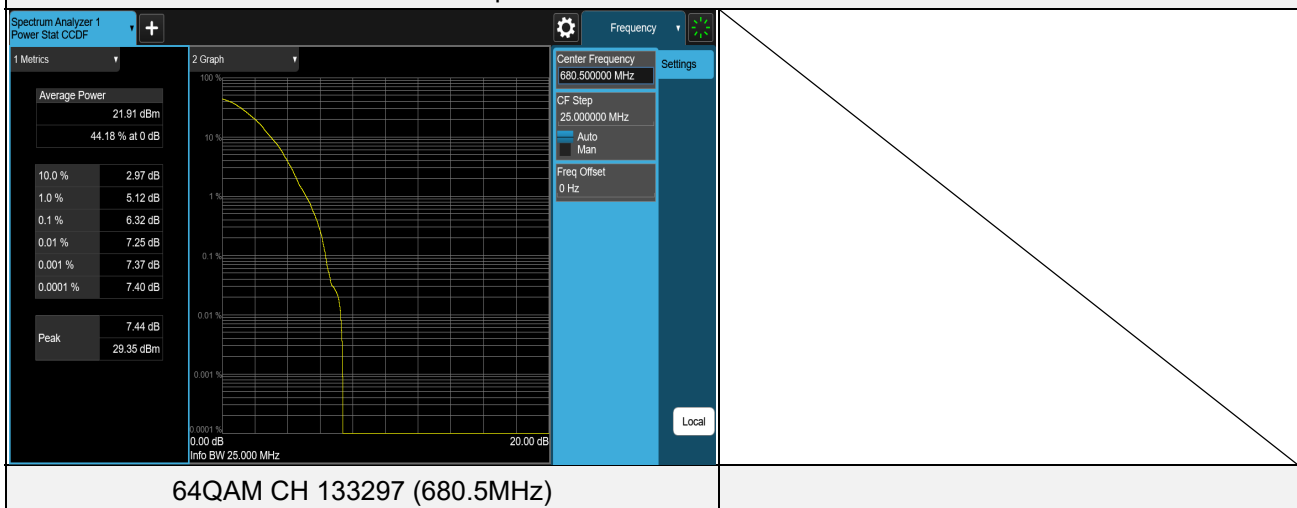


LTE Band 71 (Channel Bandwidth 15MHz)

Test Condition	Channel	Frequency (MHz)	Measure. Value(dB)	Limit dB	Result
QPSK	133197	670.5	4.69	13	PASS
QPSK	133297	680.5	5.05	13	PASS
QPSK	133397	690.5	5.02	13	PASS
16QAM	133197	670.5	5.54	13	PASS
16QAM	133297	680.5	6.03	13	PASS
16QAM	133397	690.5	6.23	13	PASS
64QAM	133197	670.5	6.01	13	PASS
64QAM	133297	680.5	6.32	13	PASS
64QAM	133397	690.5	6.30	13	PASS

NOTE: For the test plots please refer to the below pages.

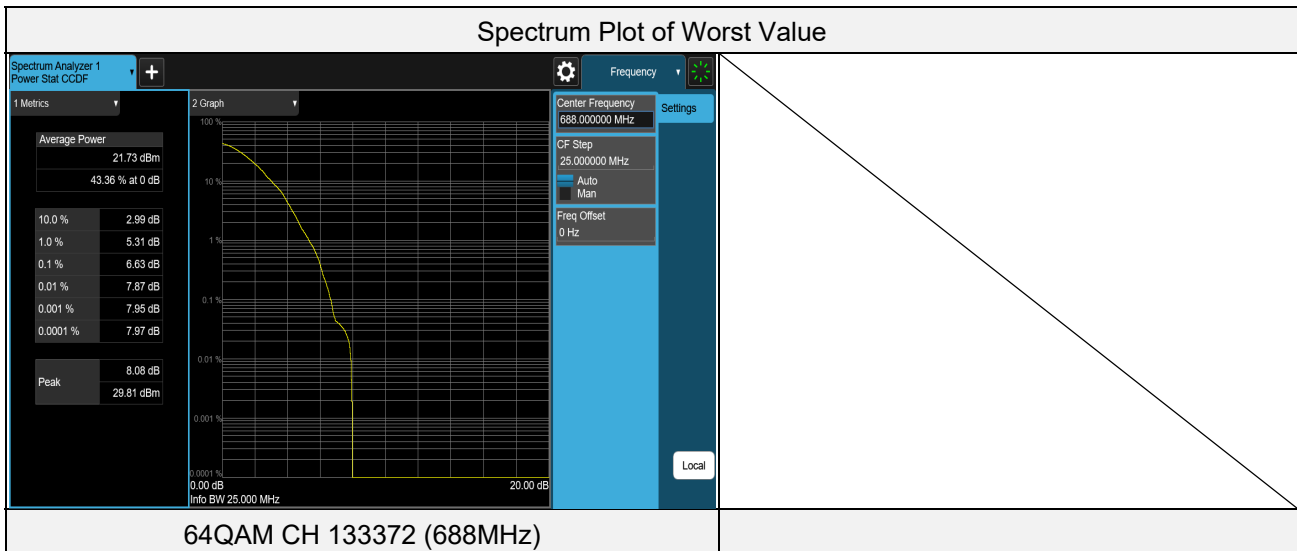
Spectrum Plot of Worst Value



LTE Band 71 (Channel Bandwidth 20MHz)

Test Condition	Channel	Frequency (MHz)	Measure. Value(dB)	Limit dB	Result
QPSK	133222	673	4.76	13	PASS
QPSK	133297	680.5	4.81	13	PASS
QPSK	133372	688	5.47	13	PASS
16QAM	133222	673	5.64	13	PASS
16QAM	133297	680.5	5.84	13	PASS
16QAM	133372	688	6.42	13	PASS
64QAM	133222	673	6.16	13	PASS
64QAM	133297	680.5	6.16	13	PASS
64QAM	133372	688	6.63	13	PASS

NOTE: For the test plots please refer to the below pages.



4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

For LTE Band 4, LTE Band 66:

In the FCC 27.53(h), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The emission limit equal to -13dBm .

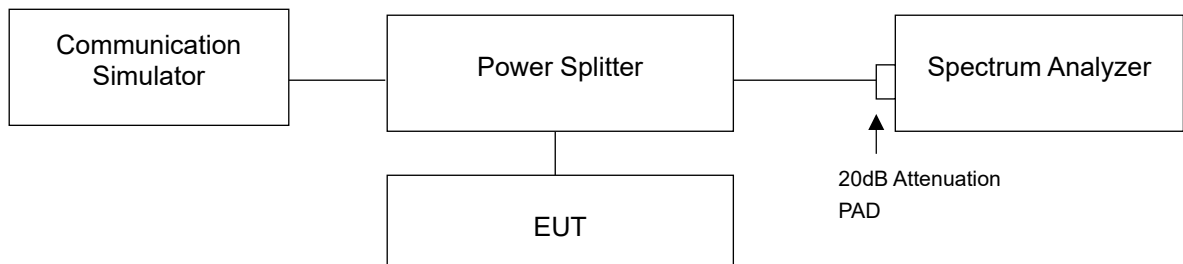
For LTE Band 7:

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log (P)$ dB. The emission limit equal to -25dBm .

For LTE Band 12, LTE Band 17, LTE Band 71:

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

4.7.2 Test Setup

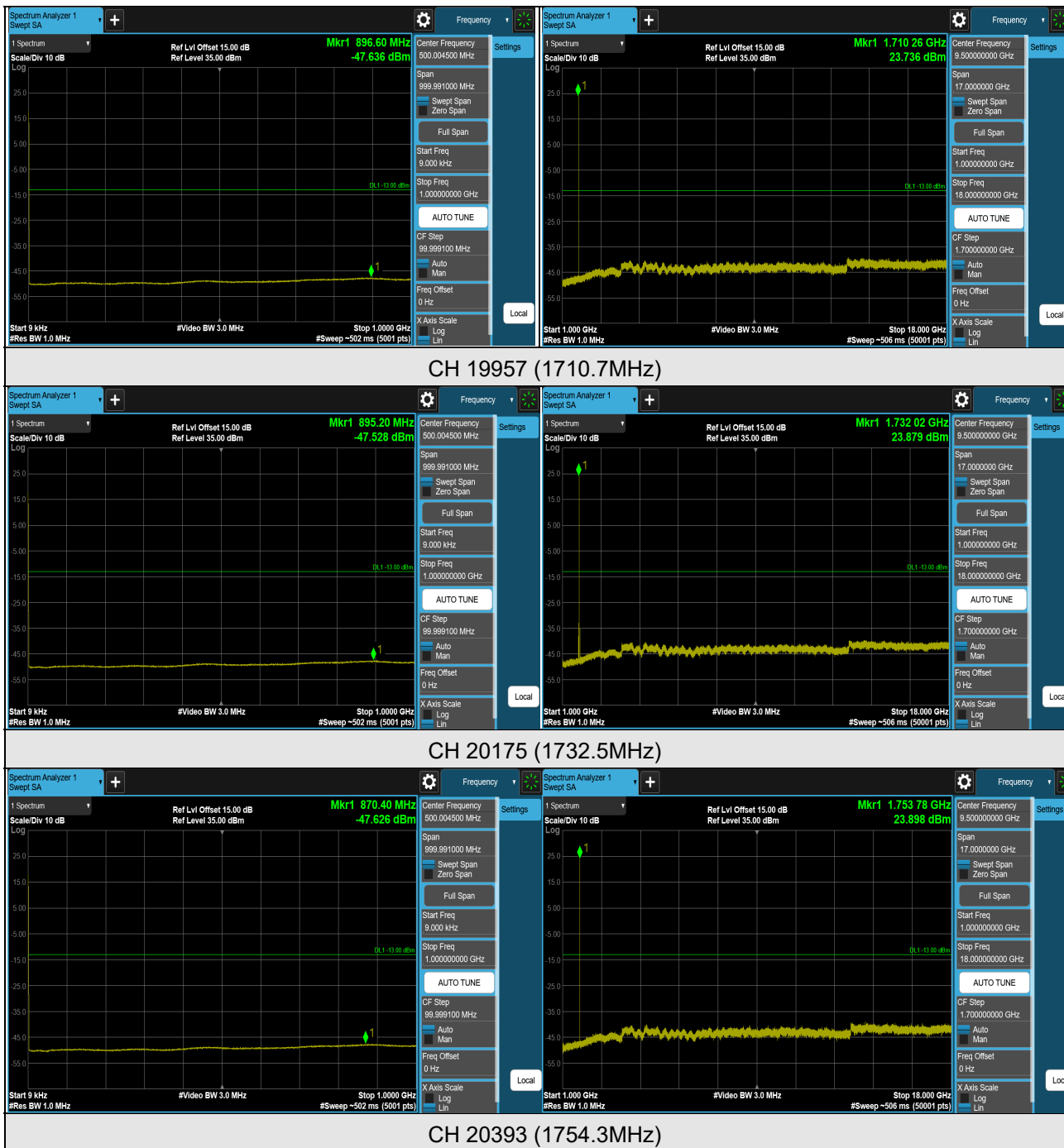


4.7.3 Test Procedure

- a. All measurements were done at low and high channels operational frequency range.
- b. Measuring frequency range is from 9kHz to 1GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are for conducted emission measurement.
- c. Measuring frequency range is from 1GHz to 7GHz / 8GHz / 9GHz / 18GHz / 26GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

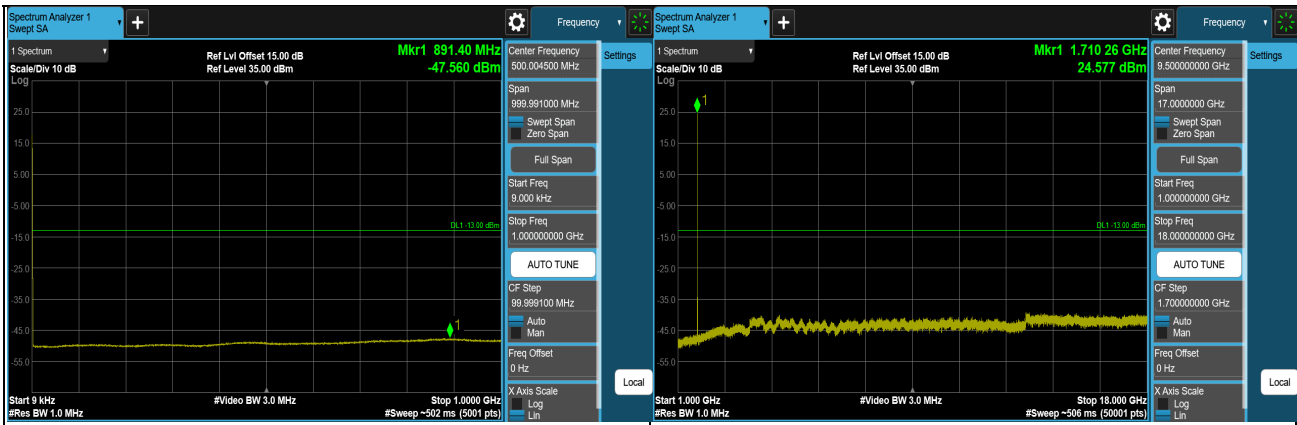
4.7.4 Test Results

LTE Band 4 (Channel Bandwidth 1.4MHz)

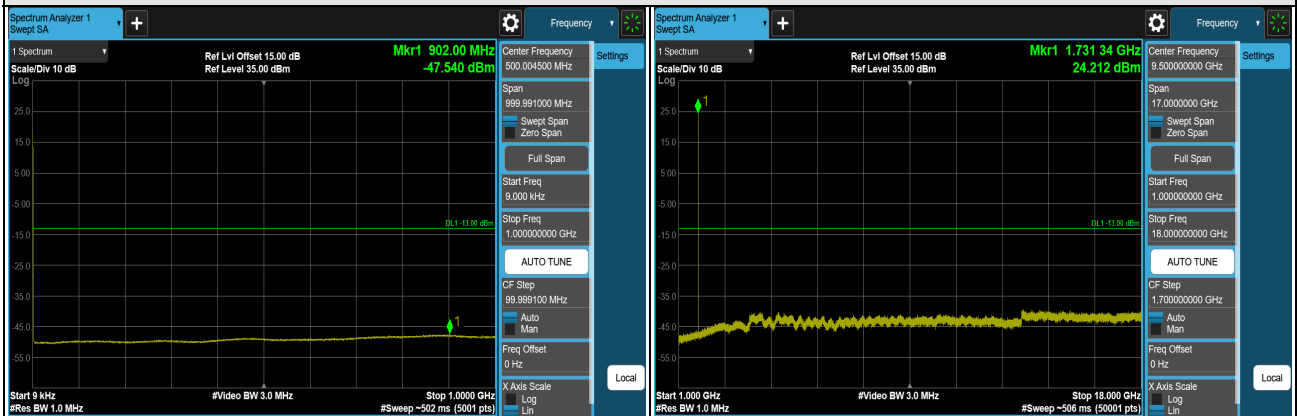


*The 9kHz signal over the limit is from Spectrum.

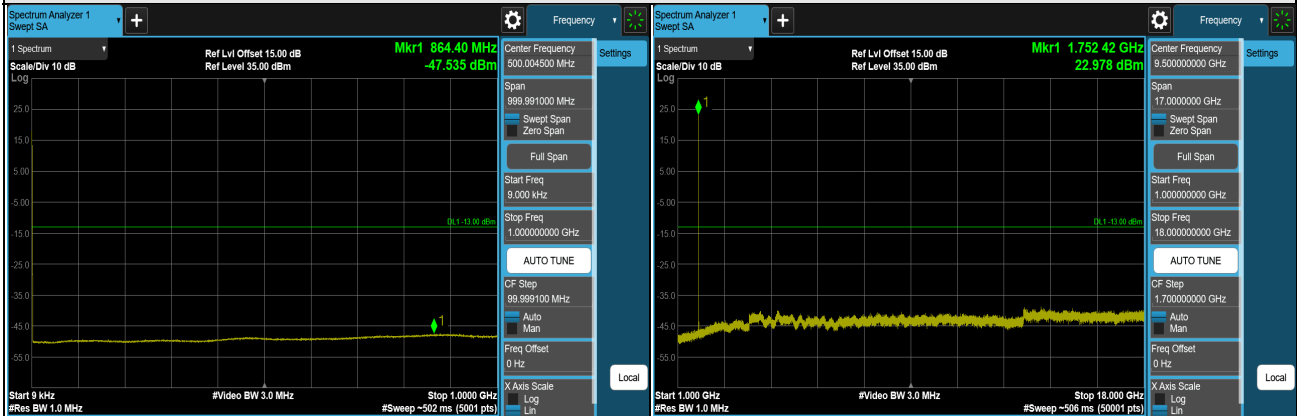
LTE Band 4 (Channel Bandwidth 3MHz)



CH 19965 (1711.5MHz)



CH 20175 (1732.5MHz)



CH 20385 (1753.5MHz)

*The 9kHz signal over the limit is from Spectrum.

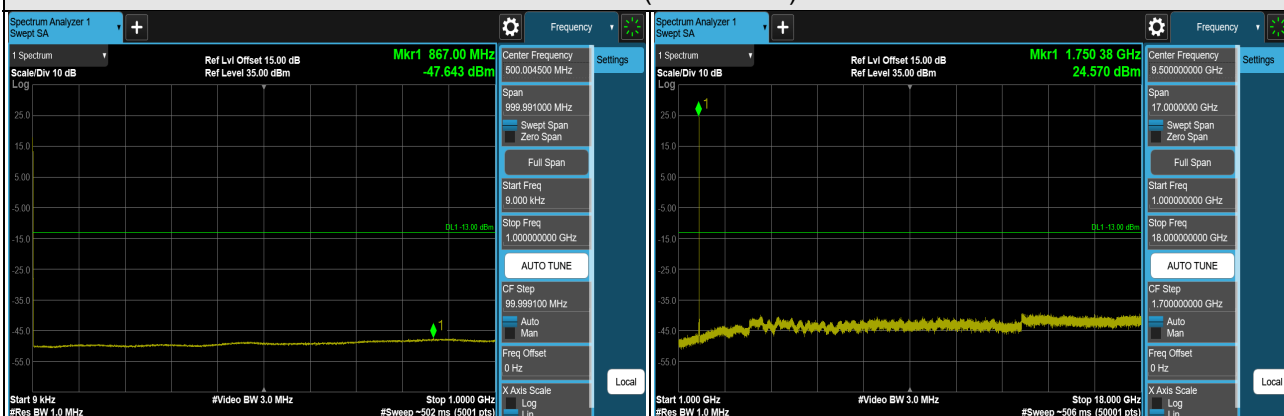
LTE Band 4 (Channel Bandwidth 5MHz)



CH 19975 (1712.5MHz)



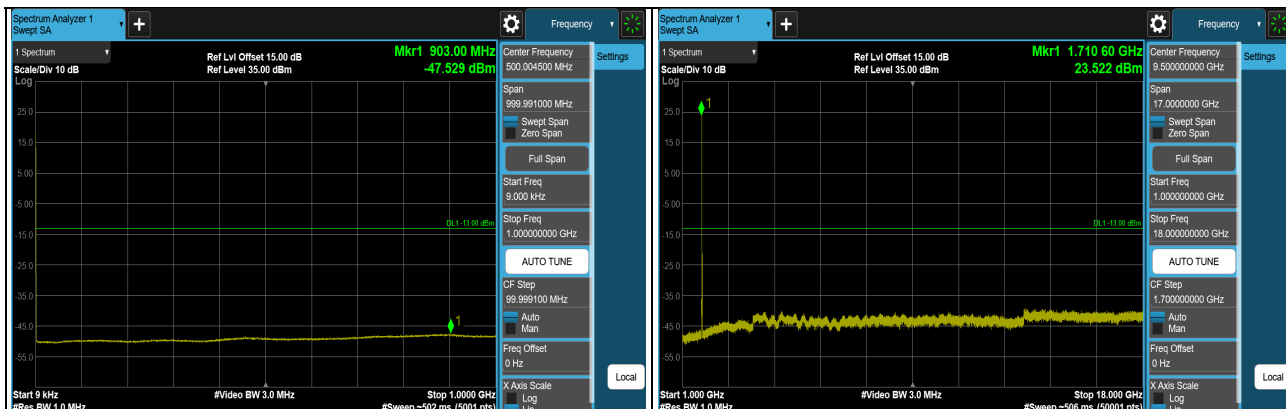
CH 20175 (1732.5MHz)



CH 20375 (1752.5MHz)

*The 9kHz signal over the limit is from Spectrum.

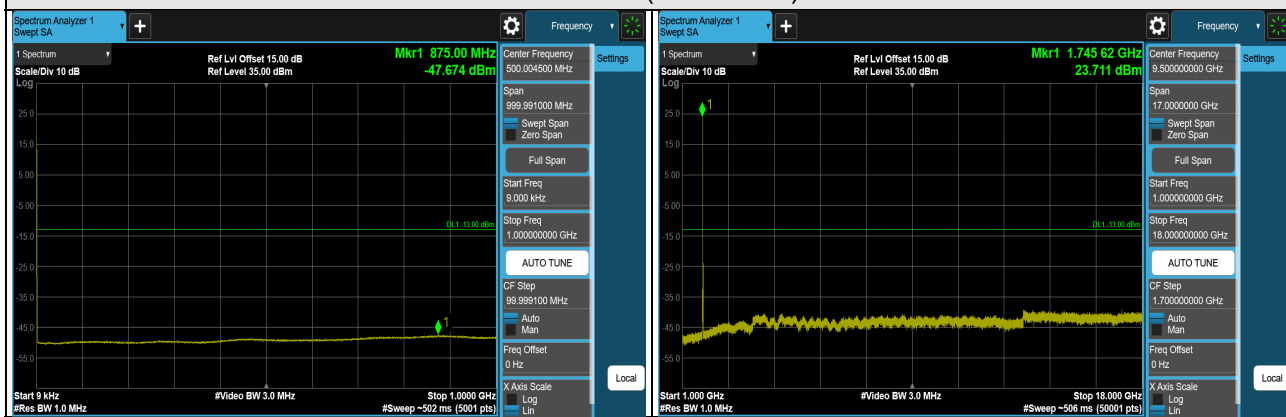
LTE Band 4 (Channel Bandwidth 10MHz)



CH 2000 (1715MHz)



CH 20175 (1732.5MHz)



CH 20350 (1750MHz)

*The 9kHz signal over the limit is from Spectrum.

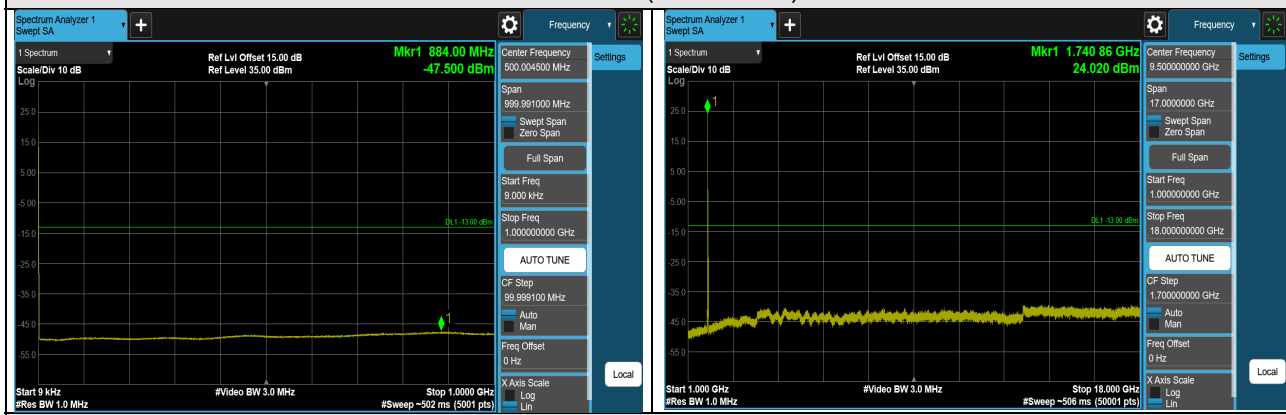
LTE Band 4 (Channel Bandwidth 15MHz)



CH 2025 (1717.5MHz)



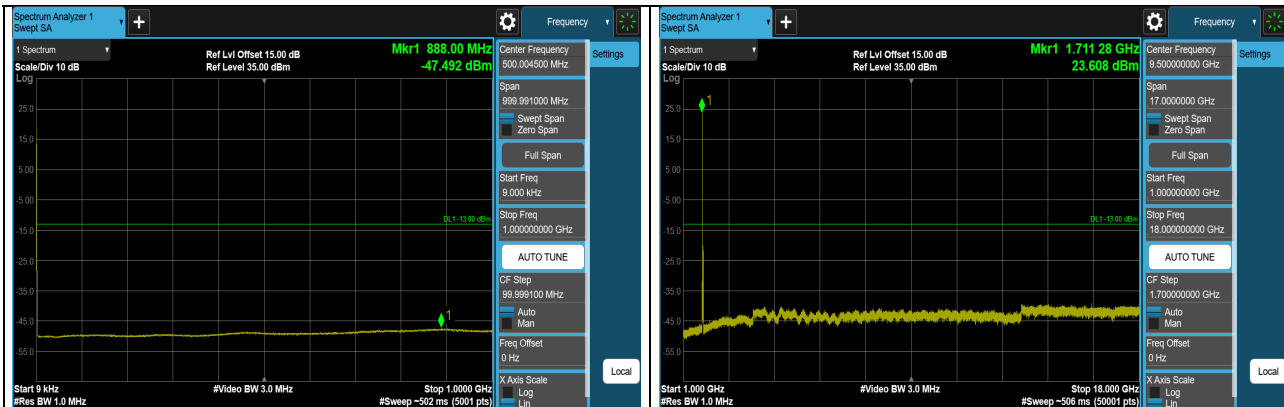
CH 20175 (1732.5MHz)



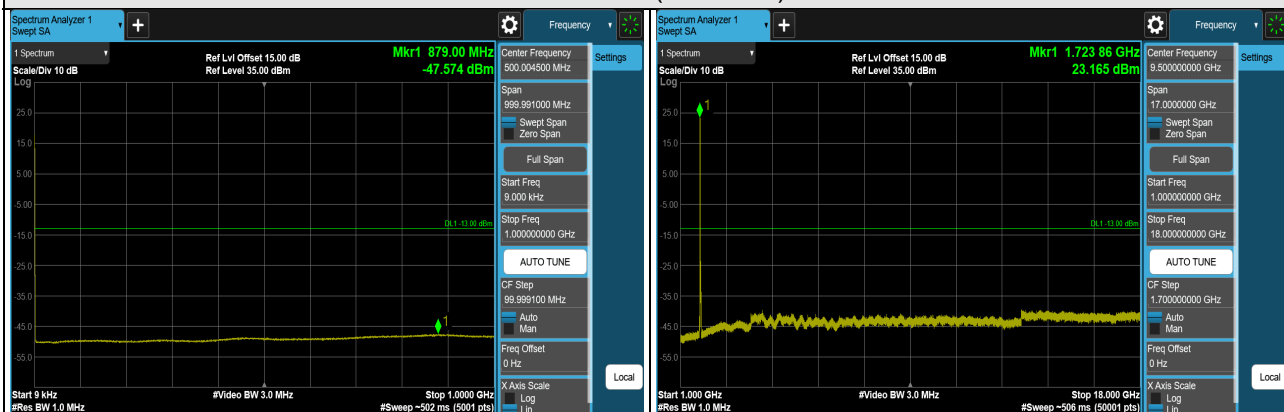
CH 20325 (1747.5MHz)

*The 9kHz signal over the limit is from Spectrum.

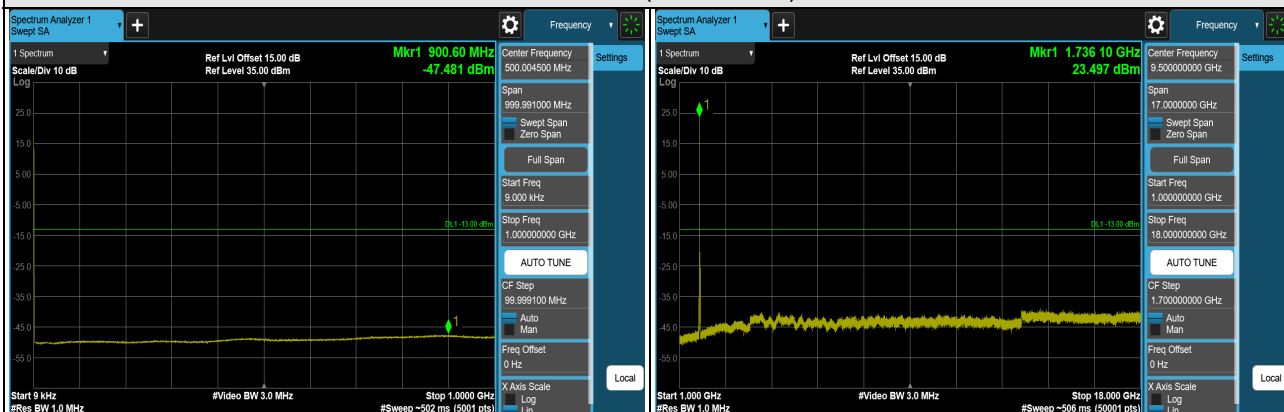
LTE Band 4 (Channel Bandwidth 20MHz)



CH 2050 (1720MHz)



CH 20175 (1732.5MHz)



CH 20300 (1745MHz)

*The 9kHz signal over the limit is from Spectrum.

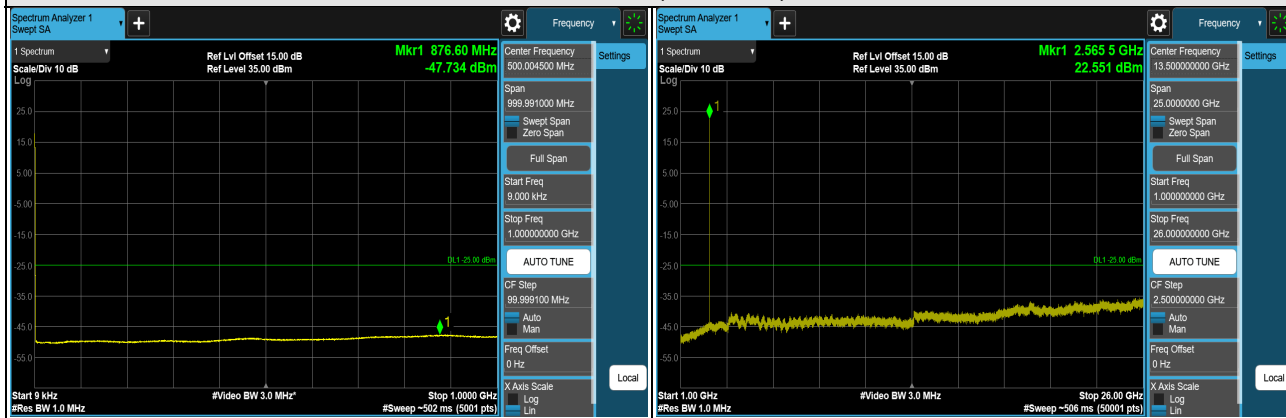
LTE Band 7 (Channel Bandwidth 5MHz)



CH 20775 (2502.5MHz)



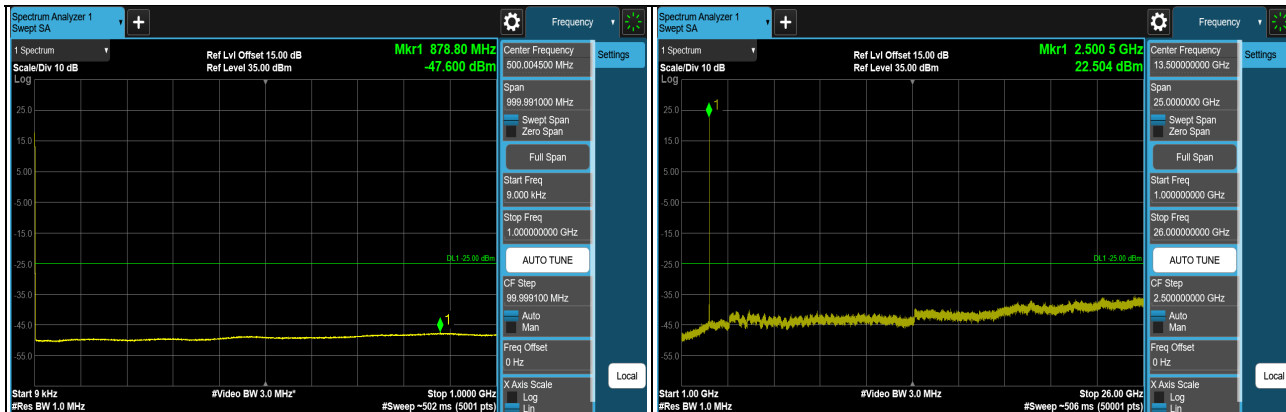
CH 21100 (2535MHz)



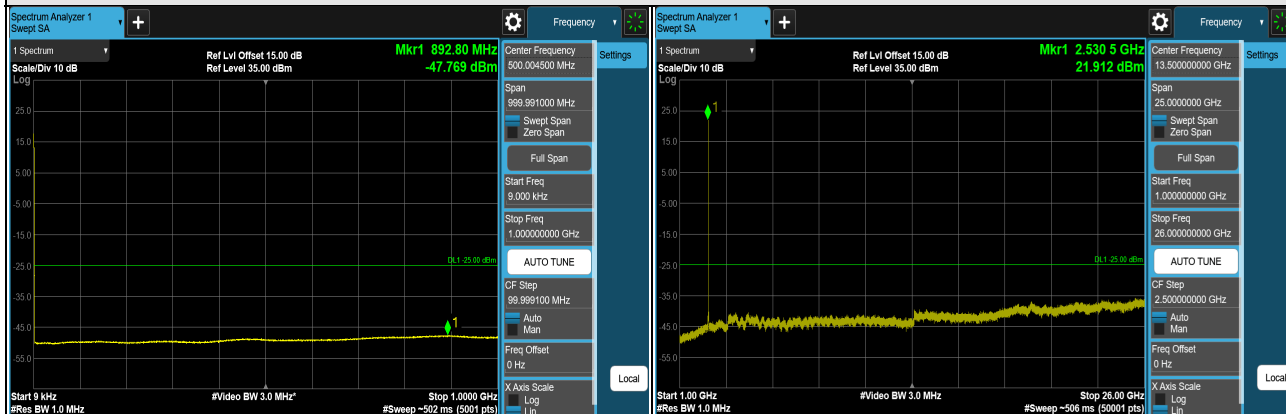
CH 21425 (2567.5MHz)

*The 9kHz signal over the limit is from Spectrum.

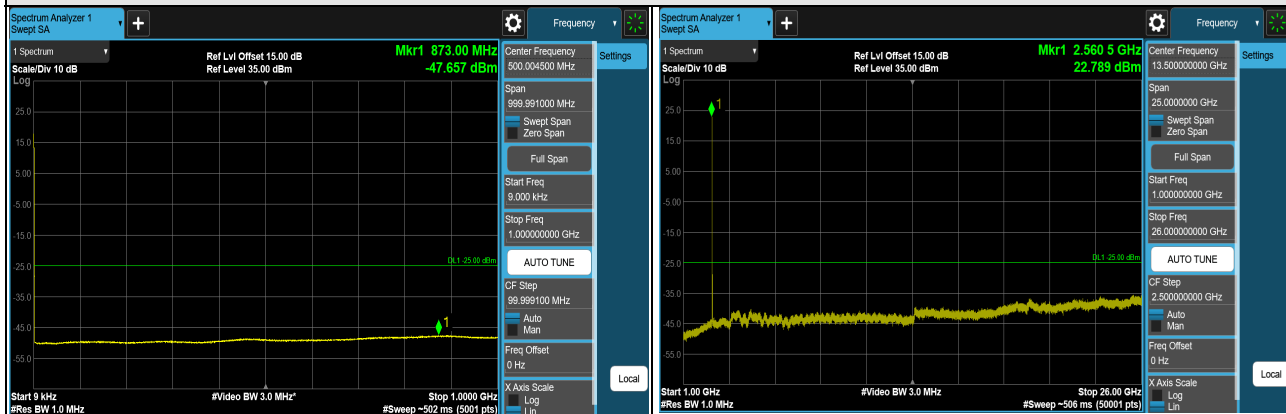
LTE Band 7 (Channel Bandwidth 10MHz)



CH 20800 (2505MHz)



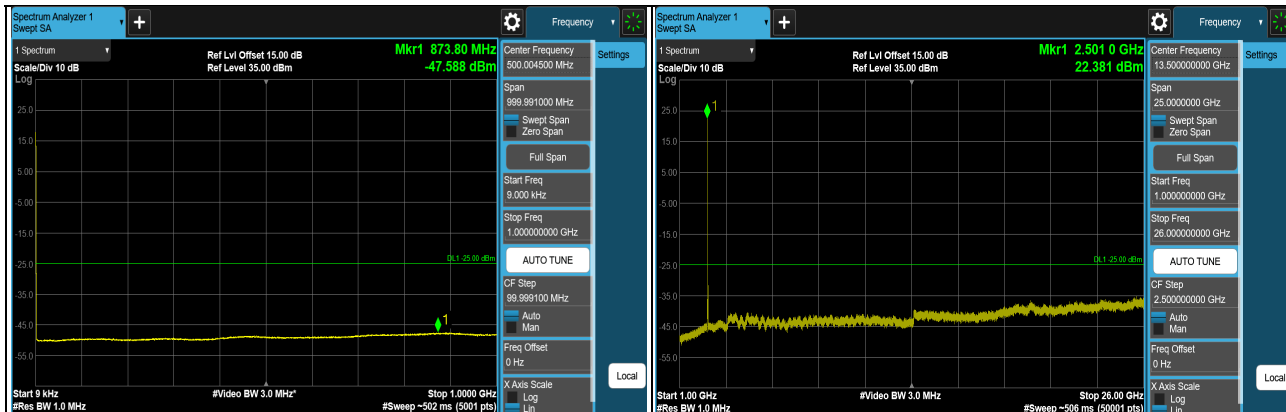
CH 21100 (2535MHz)



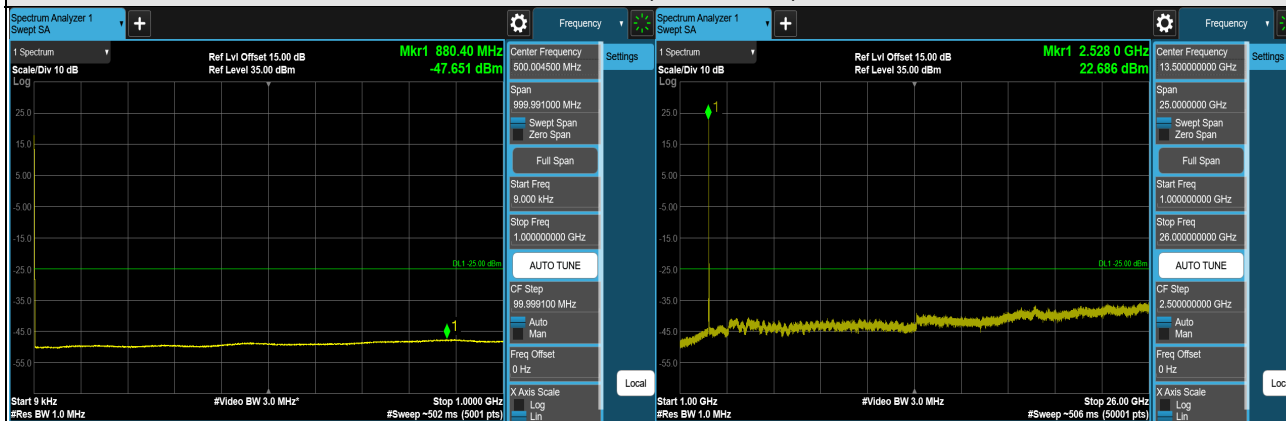
CH 21400 (2565MHz)

*The 9kHz signal over the limit is from Spectrum.

LTE Band 7 (Channel Bandwidth 15MHz)



CH 20825 (2507.5MHz)



CH 21100 (2535MHz)



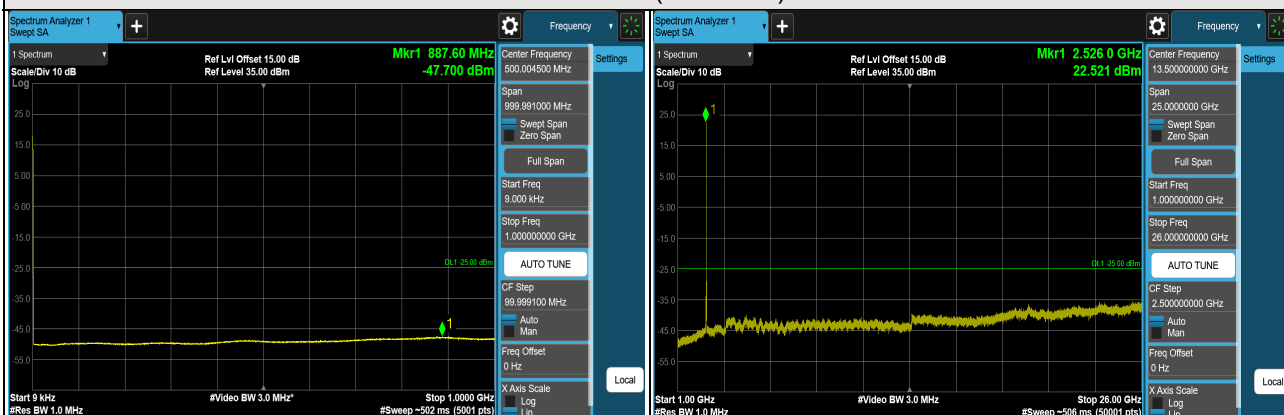
CH 21375 (2562.5MHz)

*The 9kHz signal over the limit is from Spectrum.

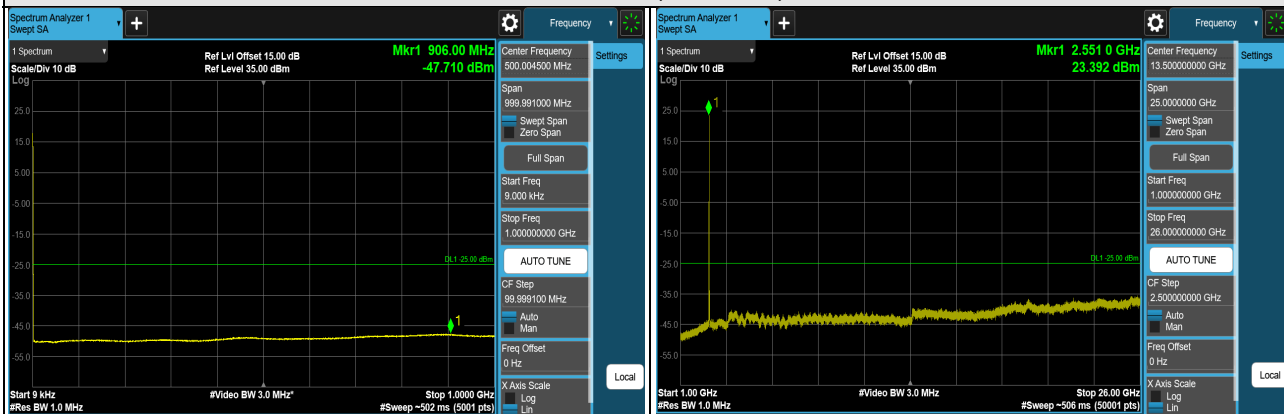
LTE Band 7 (Channel Bandwidth 20MHz)



CH 20850 (2510MHz)



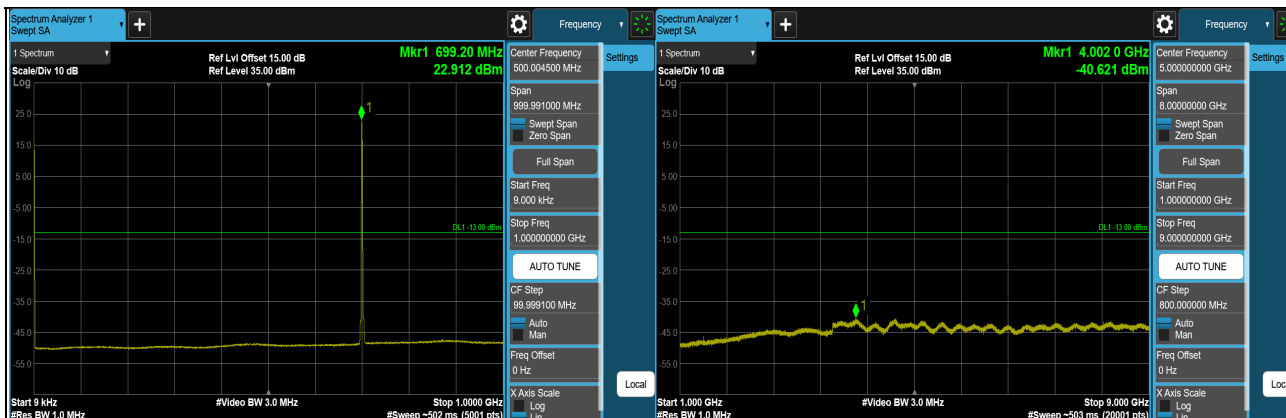
CH 21100 (2535MHz)



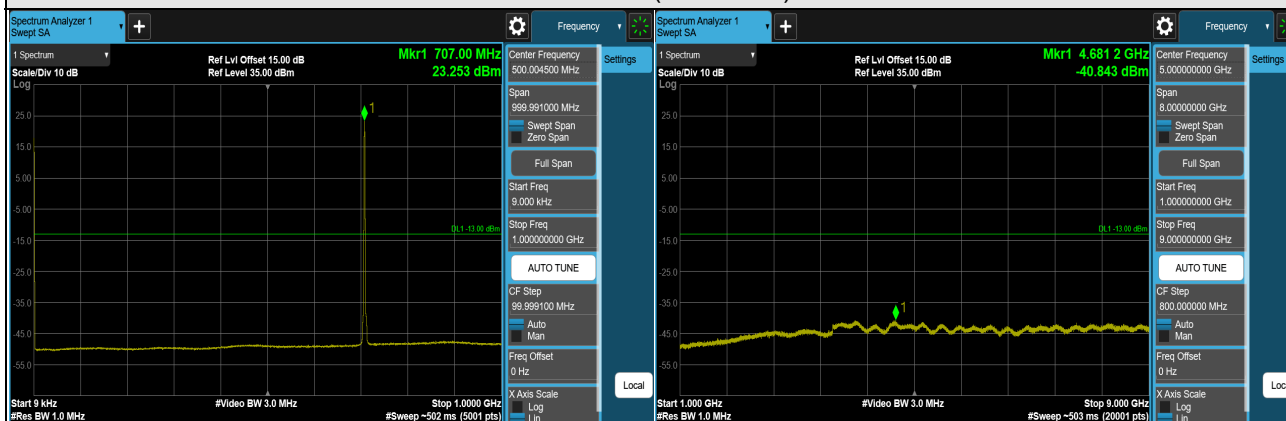
CH 21350 (2560MHz)

*The 9kHz signal over the limit is from Spectrum.

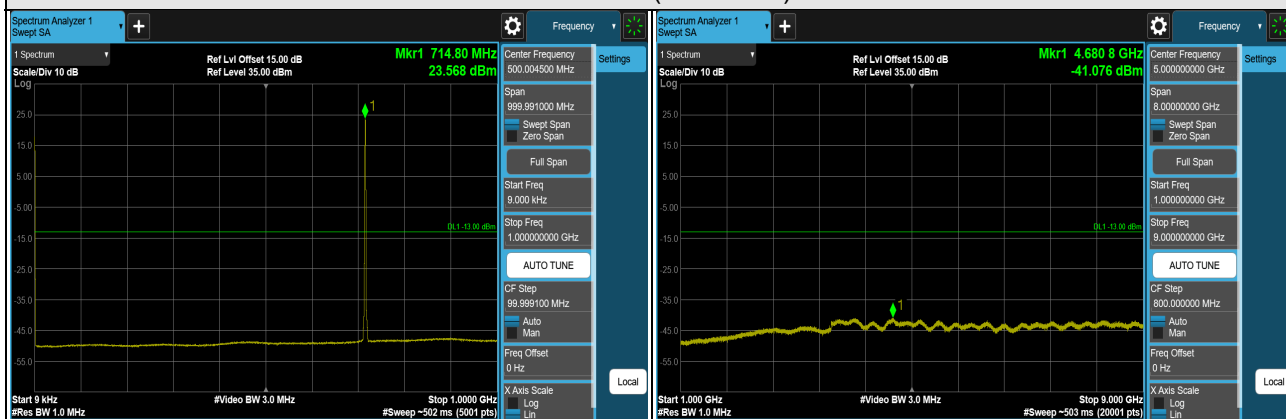
LTE Band 12 (Channel Bandwidth 1.4MHz)



CH 23017 (699.7MHz)



CH 23095 (707.5MHz)



CH 23173 (715.3MHz)

*The 9kHz signal over the limit is from Spectrum.

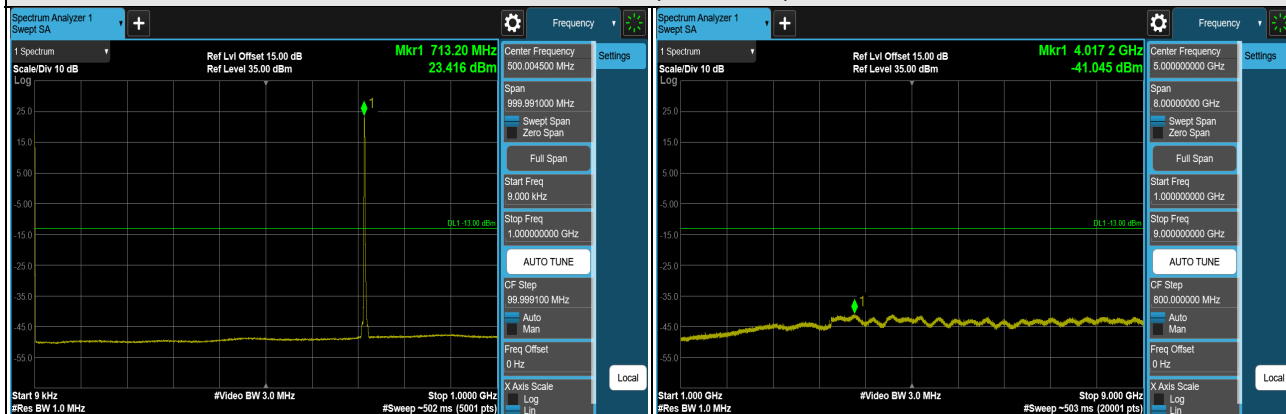
LTE Band 12 (Channel Bandwidth 3MHz)



CH 23025 (700.5MHz)



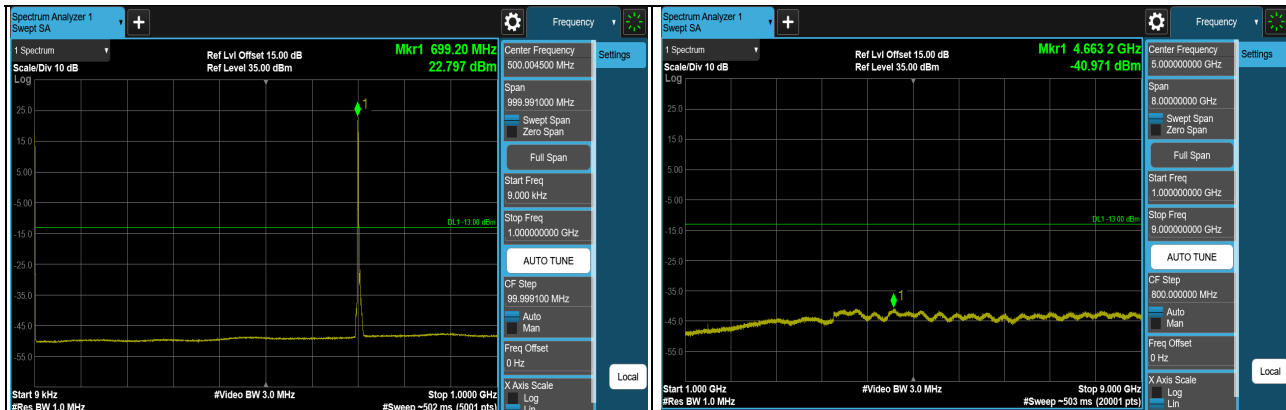
CH 23095 (707.5MHz)



CH 23165 (714.5MHz)

*The 9kHz signal over the limit is from Spectrum.

LTE Band 12 (Channel Bandwidth 5MHz)



CH 23035 (701.5MHz)



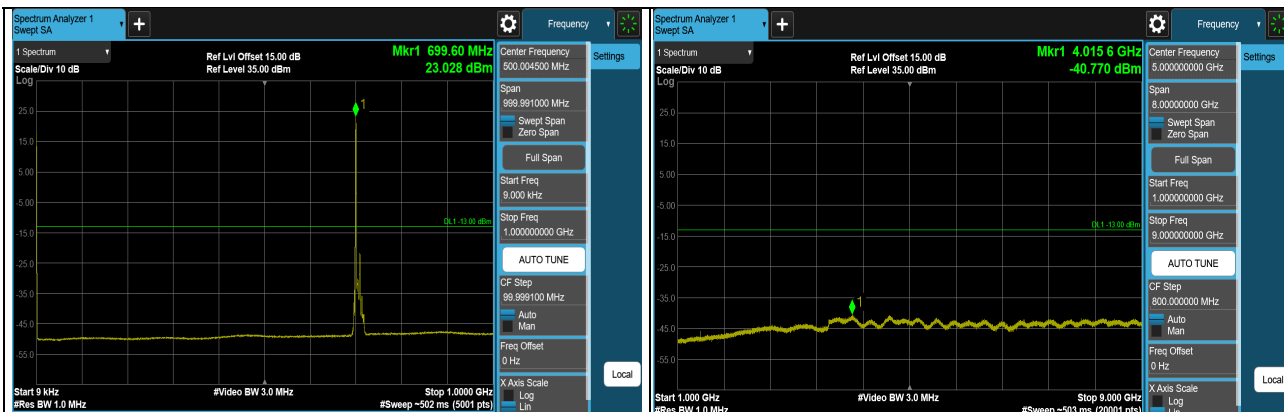
CH 23095 (707.5MHz)



CH 23155 (713.5MHz)

*The 9kHz signal over the limit is from Spectrum.

LTE Band 12 (Channel Bandwidth 10MHz)



CH 23060 (704MHz)



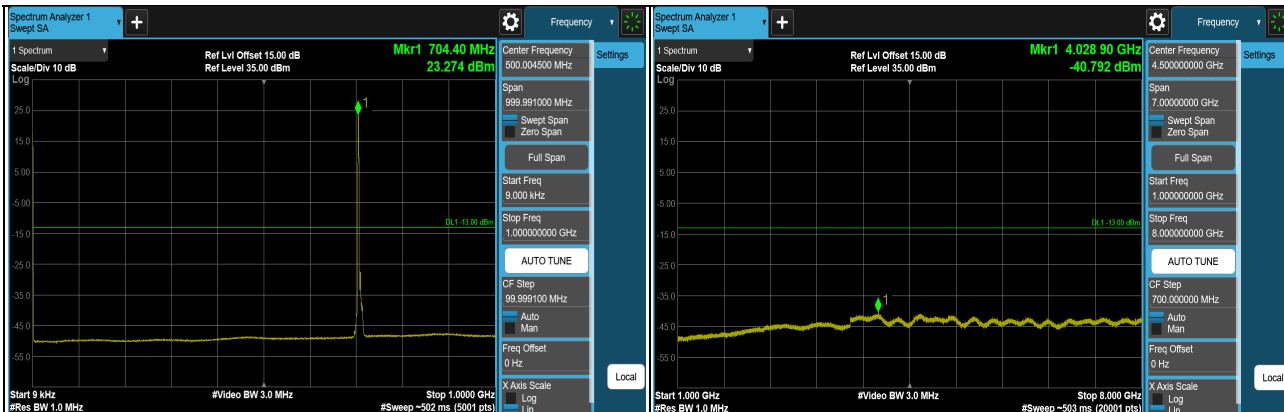
CH 23095 (707.5MHz)



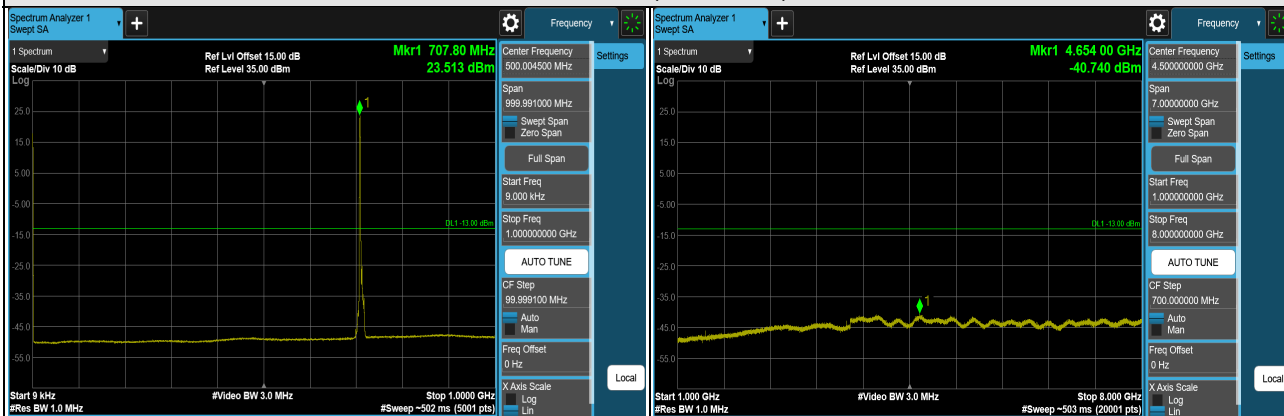
CH 23130 (711MHz)

*The 9kHz signal over the limit is from Spectrum.

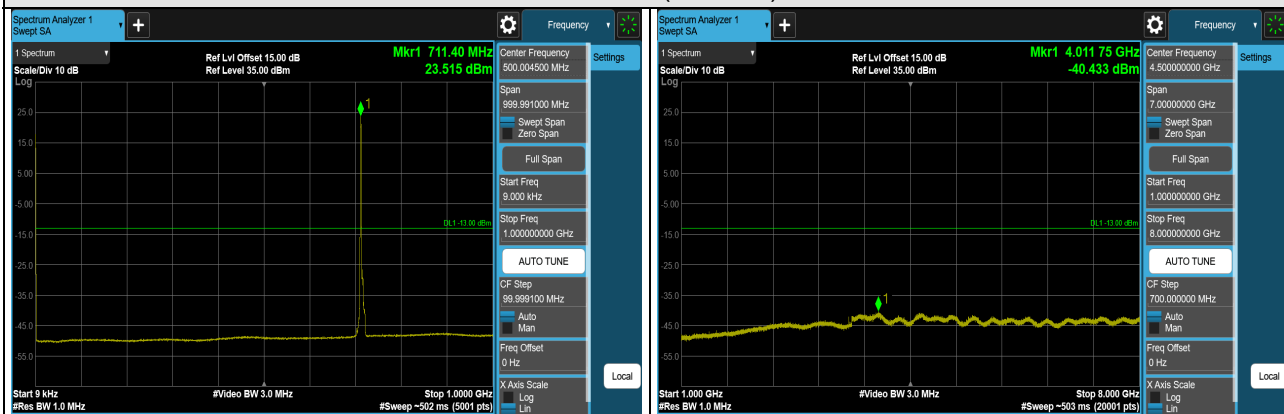
LTE Band 17 (Channel Bandwidth: 5MHz)



CH 23755 (706.5MHz)



CH 23790 (710MHz)



CH 23825 (713.5MHz)

*The 9kHz signal over the limit is from Spectrum.