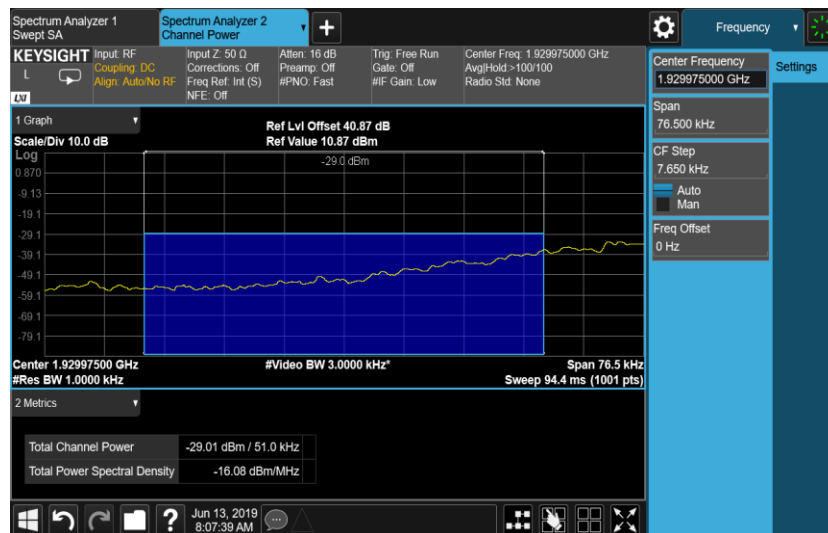
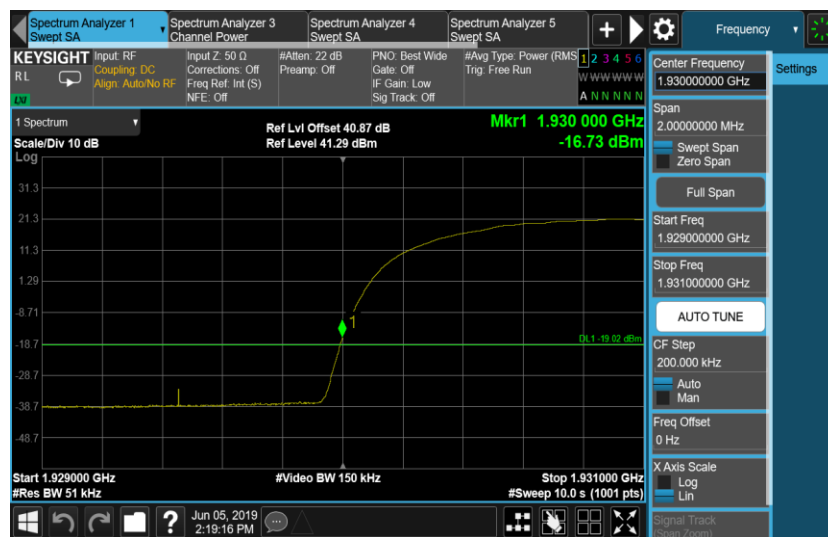


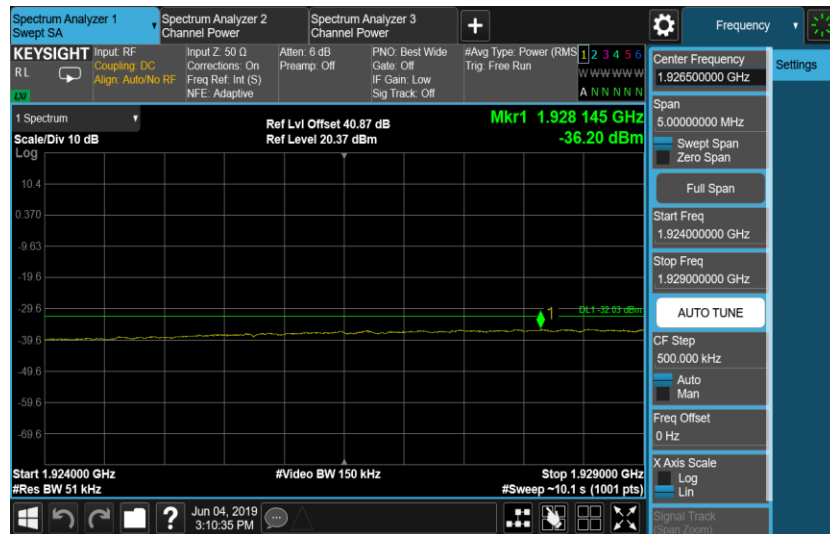
Configuration WCDMA+LTE-MIMO-MC-3-BE (2WCDMA, 64QAM + 1LTE, QPSK)

| Band Edge Frequency             | Channel Bandwidth       | RBW (KHz) | Limit (dBm) |
|---------------------------------|-------------------------|-----------|-------------|
| Channel Position B<br>1930.0MHz | (W) 5.0MHz, (L) 5.0 MHz | 51        | -19.02      |
| Channel Position T<br>1995.0MHz | (W) 5.0MHz, (L) 5.0 MHz | 51        | -19.02      |

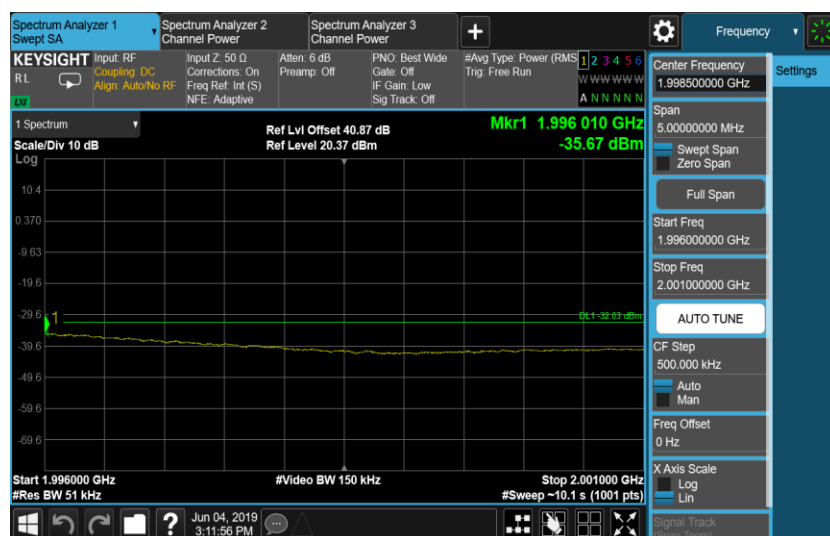
Port B , Channel Position B, LTE 5.0MHz



The channel power of 51KHz for 1929.975MHz is -29.01dBm, which is within the limit of -19.02dBm.



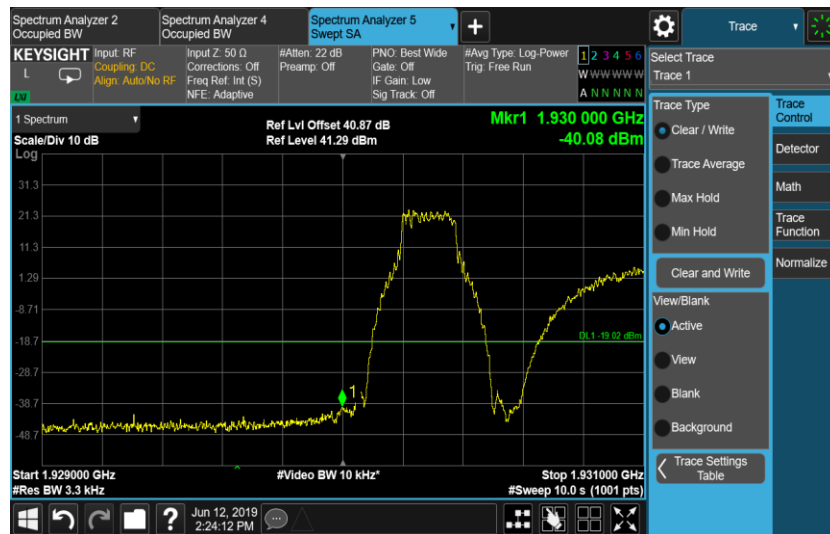
Port B , Channel Position T, LTE 5.0MHz



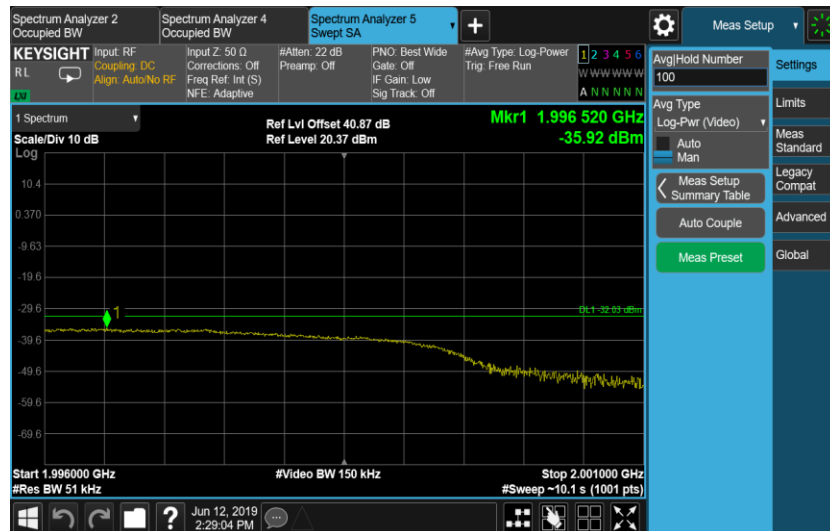
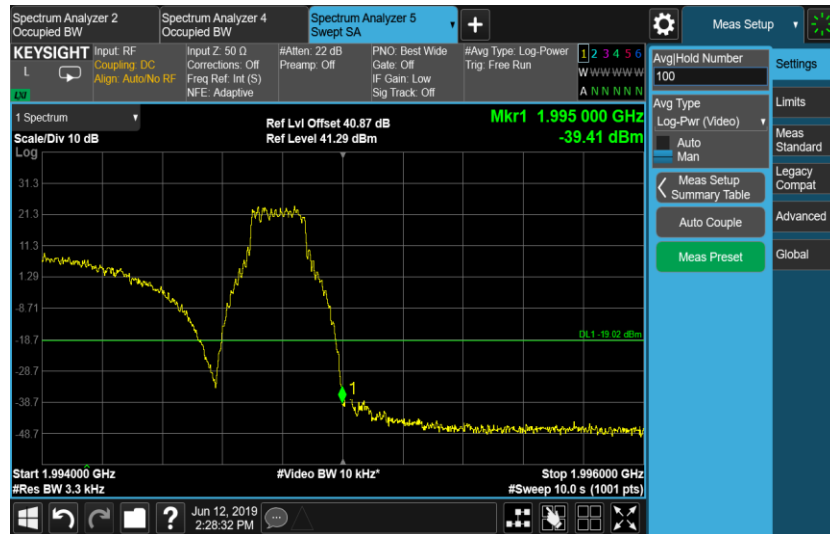
Configuration WCDMA+NB-IoT-MC-3-BE, (1WCDMA, 64QAM + 1SA, QPSK)

| Band Edge Frequency             | Channel Bandwidth       | RBW (KHz) | Limit (dBm) |
|---------------------------------|-------------------------|-----------|-------------|
| Channel Position B<br>1930.0MHz | (NB) 250KHz, (W) 5.0MHz | 3.3       | -19.02      |
| Channel Position T<br>1995.0MHz | (NB) 250KHz, (W) 5.0MHz | 3.3       | -19.02      |

Port B , Channel Position B



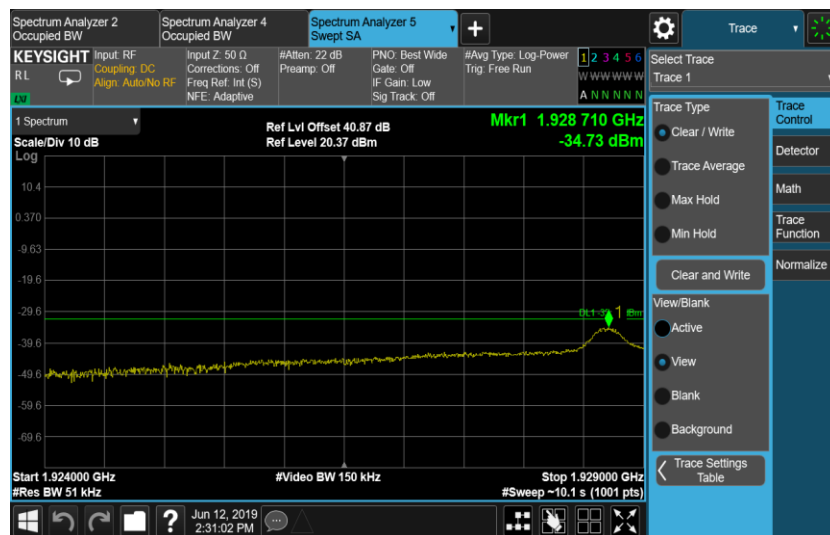
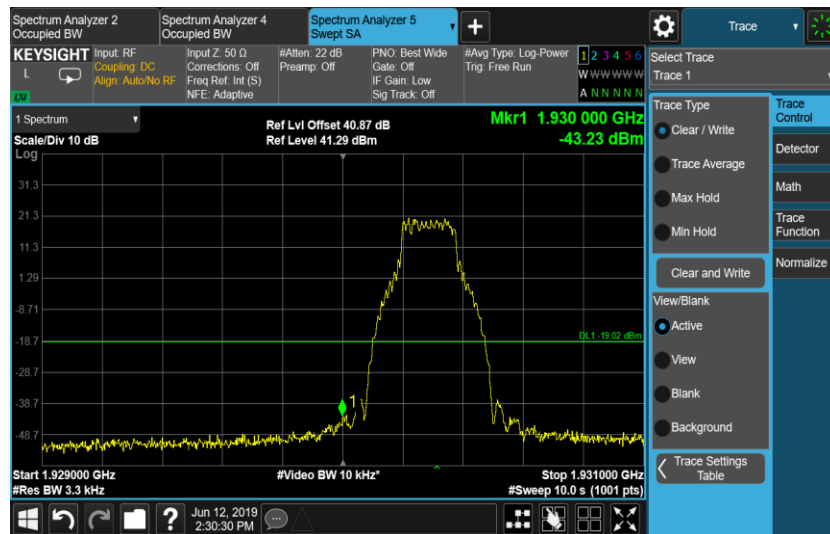
Port B , Channel Position T



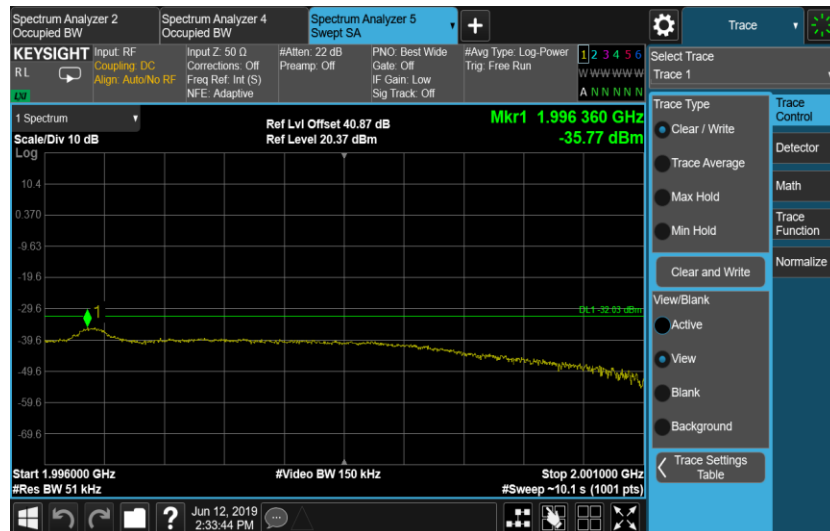
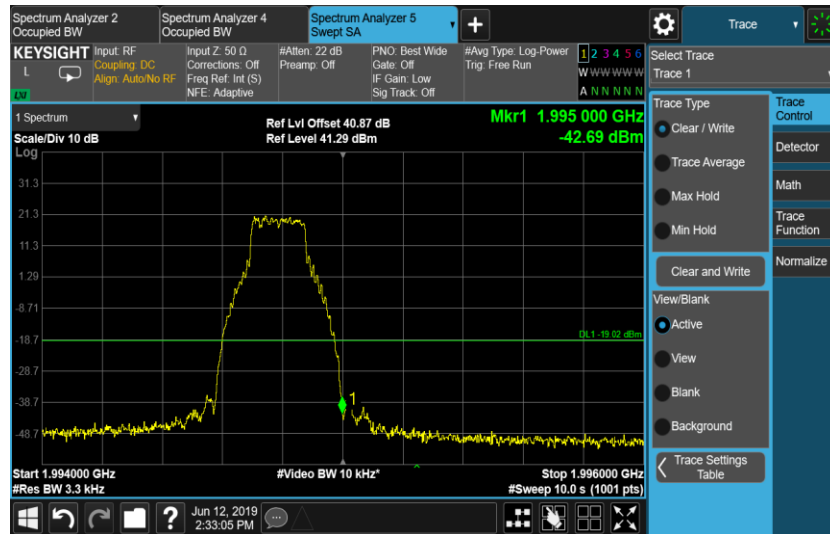
Configuration WCDMA+NB-IoT-MC-4-BE, (1WCDMA, 64QAM + 2SA, QPSK)

| Band Edge Frequency             | Channel Bandwidth       | RBW (KHz) | Limit (dBm) |
|---------------------------------|-------------------------|-----------|-------------|
| Channel Position B<br>1930.0MHz | (NB) 250KHz, (W) 5.0MHz | 3.3       | -19.02      |
| Channel Position T<br>1995.0MHz | (NB) 250KHz, (W) 5.0MHz | 3.3       | -19.02      |

Port B , Channel Position B



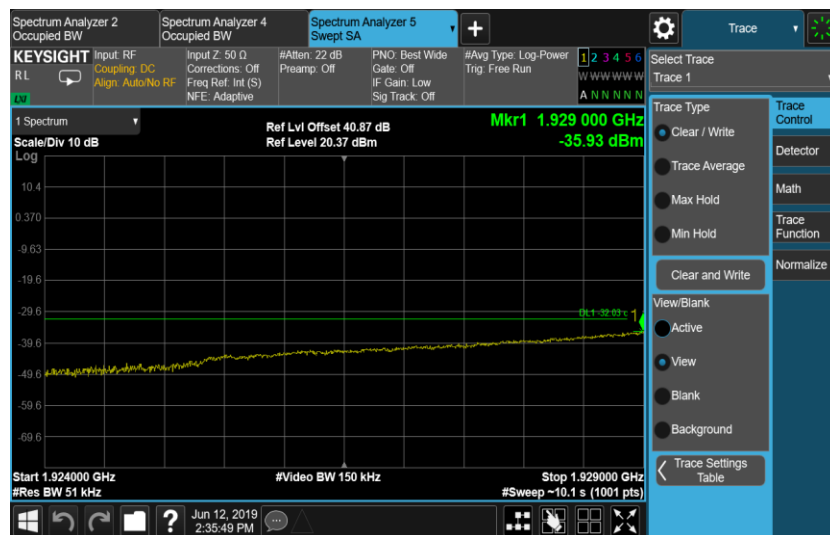
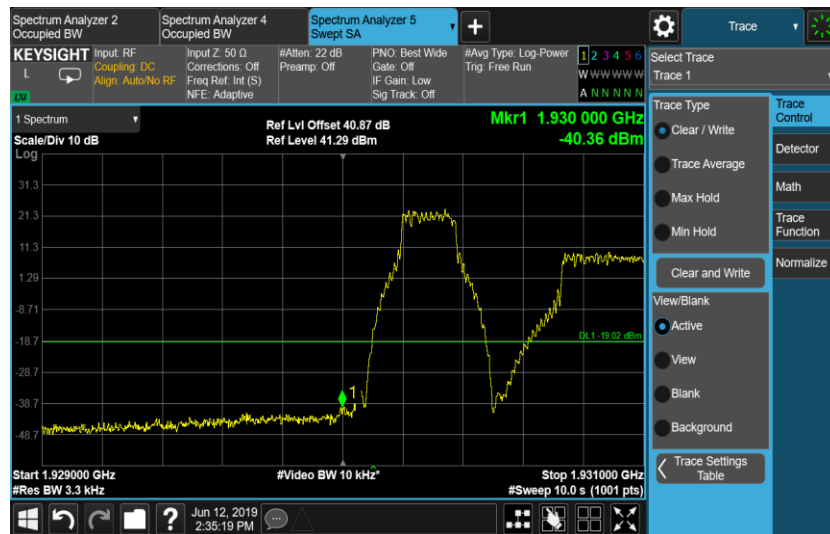
Port B , Channel Position T



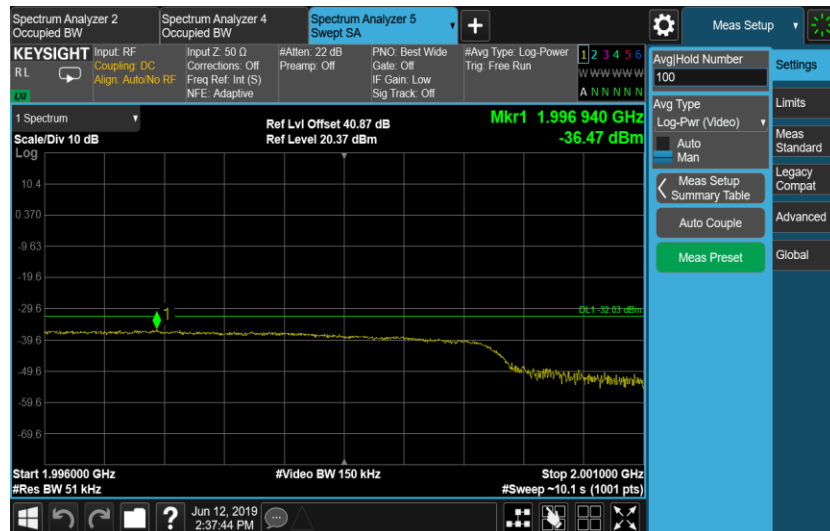
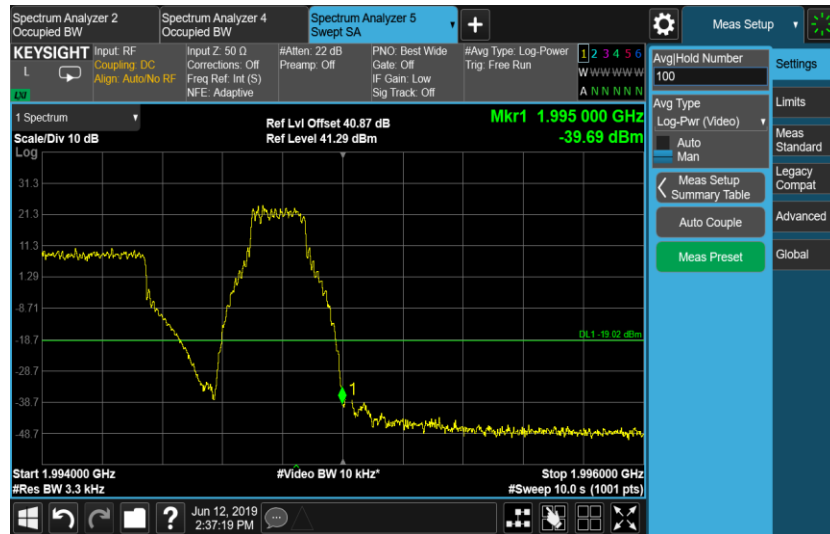
Configuration LTE+NB-IoT-MC-3-BE, (1LTE, QPSK + 1SA, QPSK)

| Band Edge Frequency             | Channel Bandwidth       | RBW (KHz) | Limit (dBm) |
|---------------------------------|-------------------------|-----------|-------------|
| Channel Position B<br>1930.0MHz | (NB) 250KHz, (L) 5.0MHz | 3.3       | -19.02      |
| Channel Position T<br>1995.0MHz | (NB) 250KHz, (L) 5.0MHz | 3.3       | -19.02      |

Port B , Channel Position B, LTE 5.0MHz



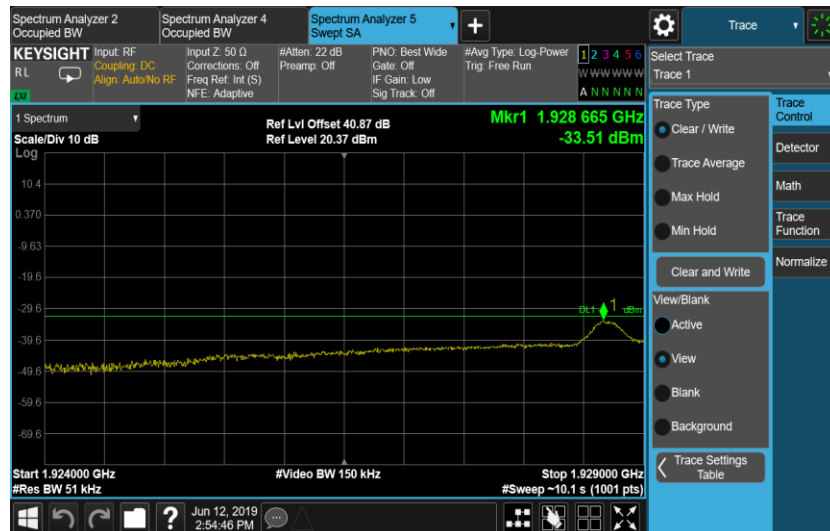
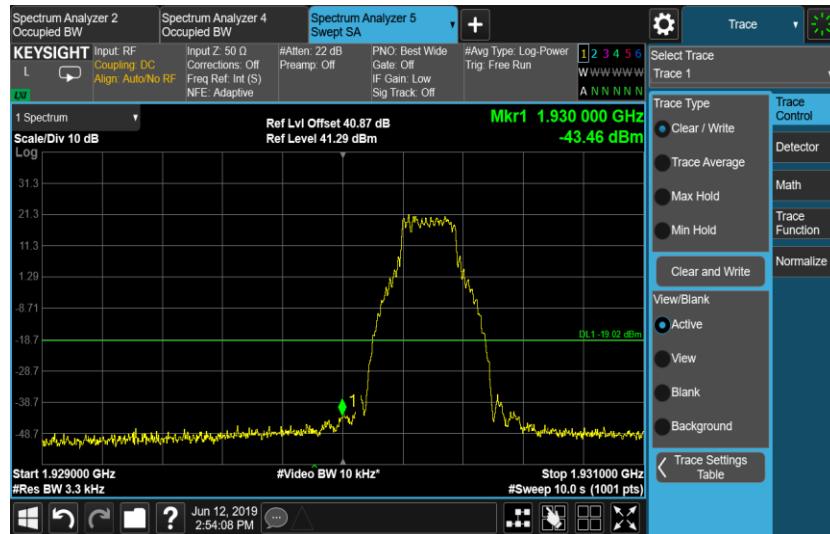
Port B , Channel Position T, LTE 5.0MHz



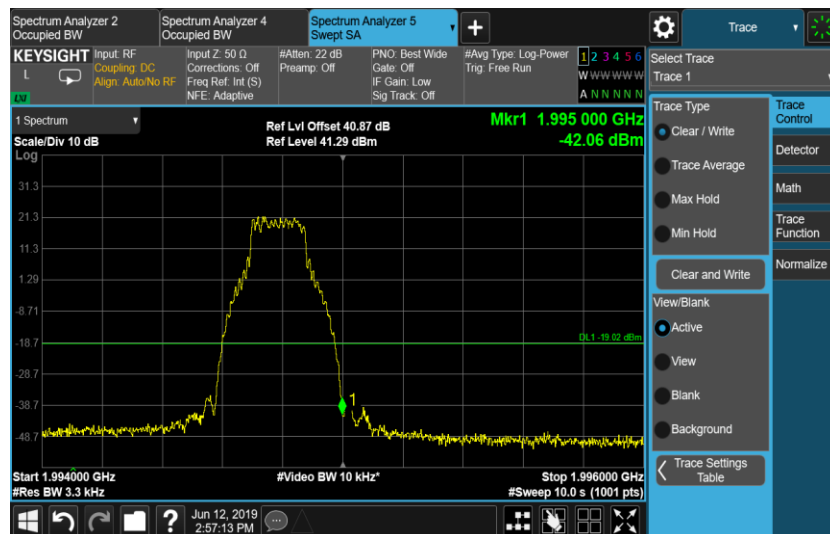
Configuration LTE+NB-IoT-MC-4-BE, (1LTE, QPSK + 2SA, QPSK)

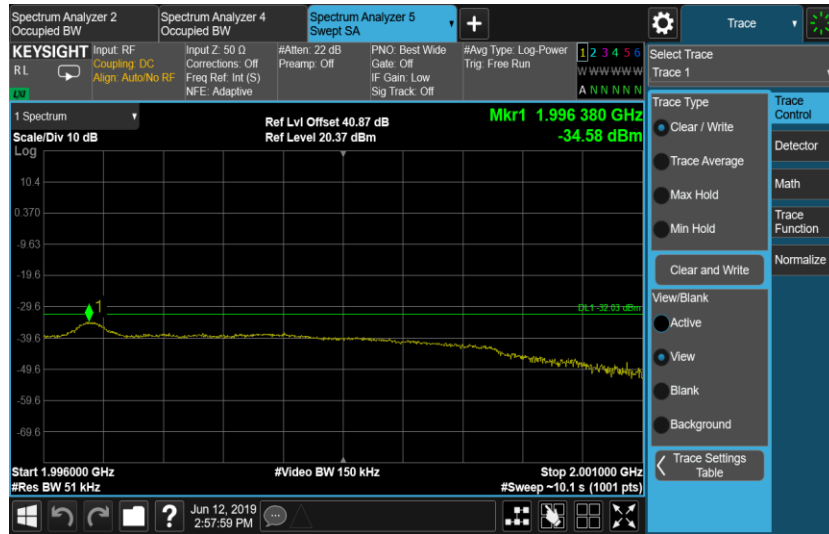
| Band Edge Frequency             | Channel Bandwidth       | RBW (KHz) | Limit (dBm) |
|---------------------------------|-------------------------|-----------|-------------|
| Channel Position B<br>1930.0MHz | (NB) 250KHz, (L) 5.0MHz | 3.3       | -19.02      |
| Channel Position T<br>1995.0MHz | (NB) 250KHz, (L) 5.0MHz | 3.3       | -19.02      |

Port B , Channel Position B, LTE 5.0MHz



Port B , Channel Position T, LTE 5.0MHz

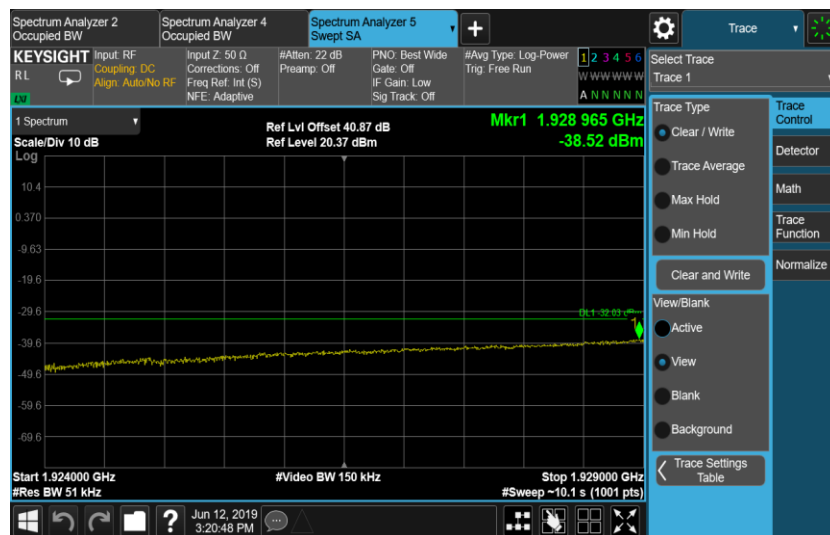
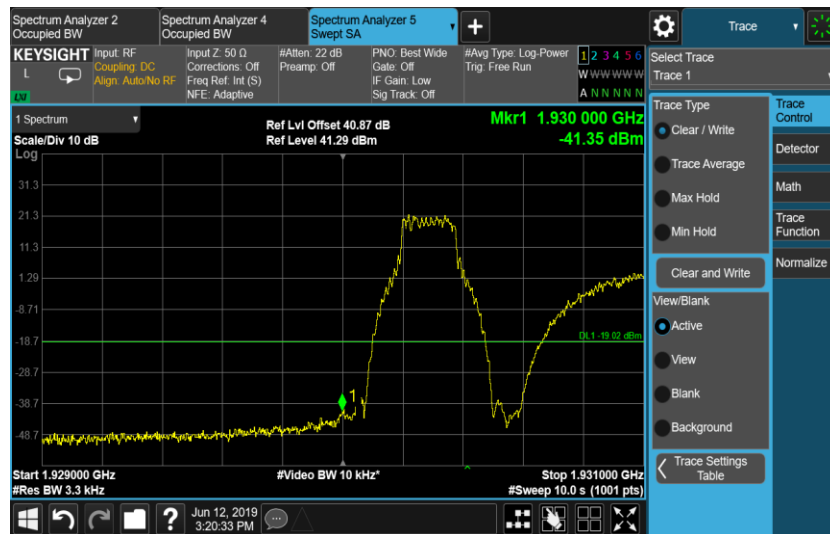




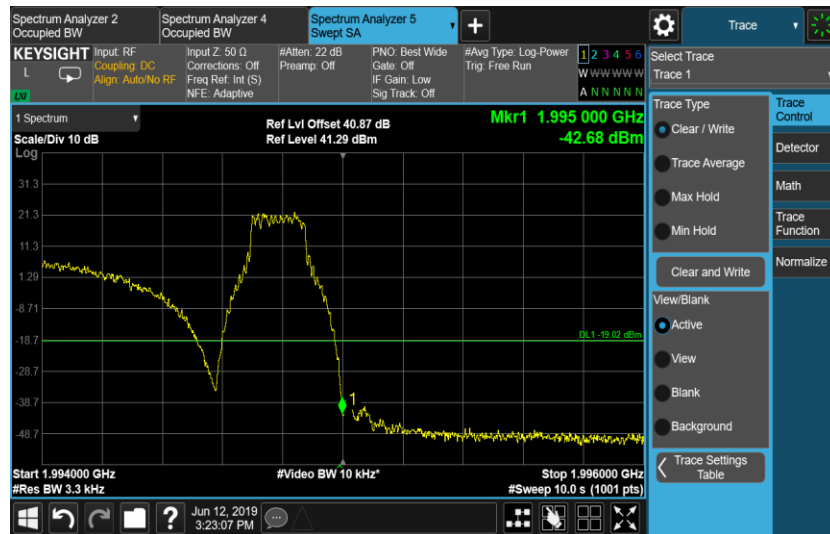
Configuration WCDMA+LTE+NB-IoT-MC-3-BE, (1WCDMA 64QAM +1LTE, QPSK + 1SA, QPSK)

| Band Edge Frequency             | Channel Bandwidth                     | RBW (KHz) | Limit (dBm) |
|---------------------------------|---------------------------------------|-----------|-------------|
| Channel Position B<br>1930.0MHz | (NB) 250KHz, (W) 5.0MHz<br>(L) 5.0MHz | 3.3       | -19.02      |
| Channel Position T<br>1990.0MHz | (NB) 250KHz, (W) 5.0MHz<br>(L) 5.0MHz | 3.3       | -19.02      |

Port B , Channel Position B, LTE 5.0MHz



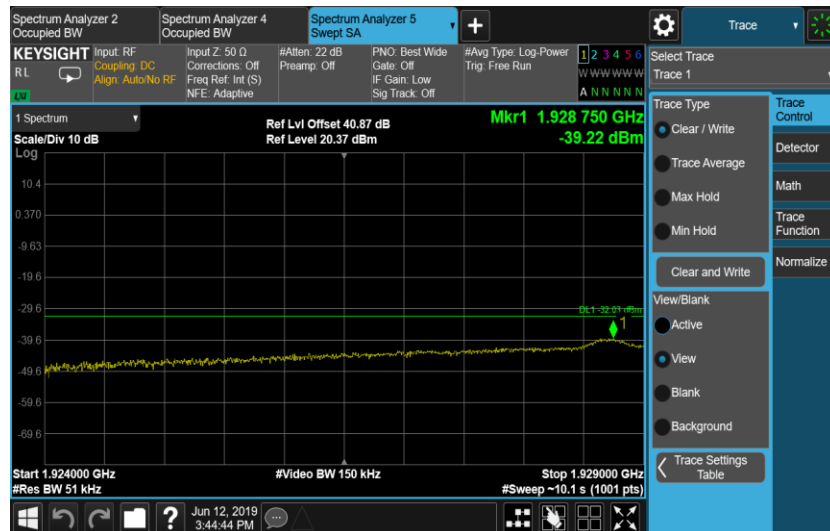
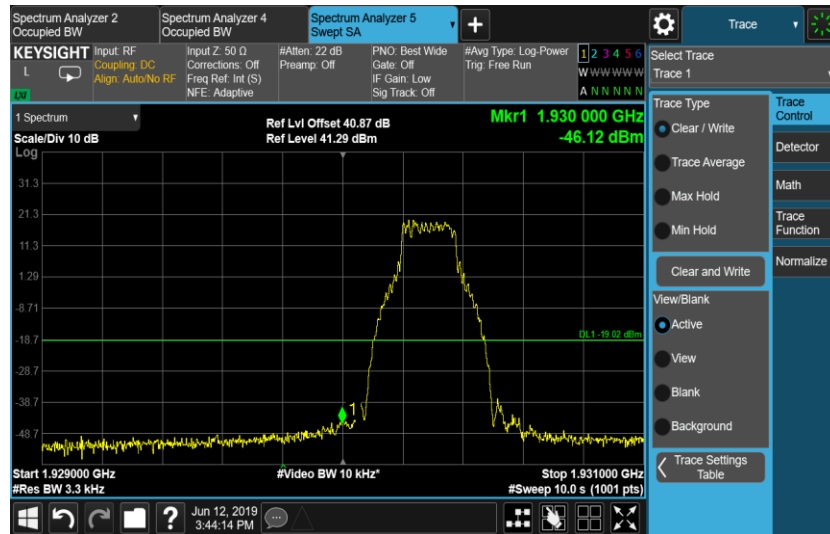
Port B , Channel Position T, LTE 5.0MHz



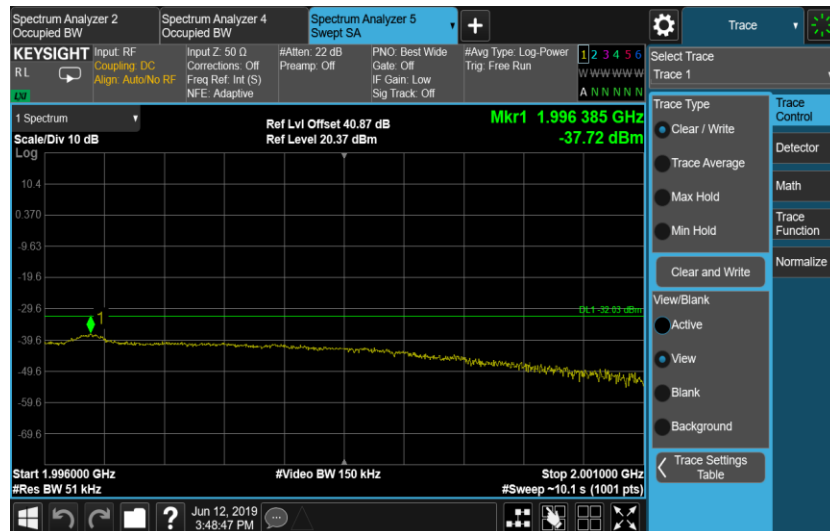
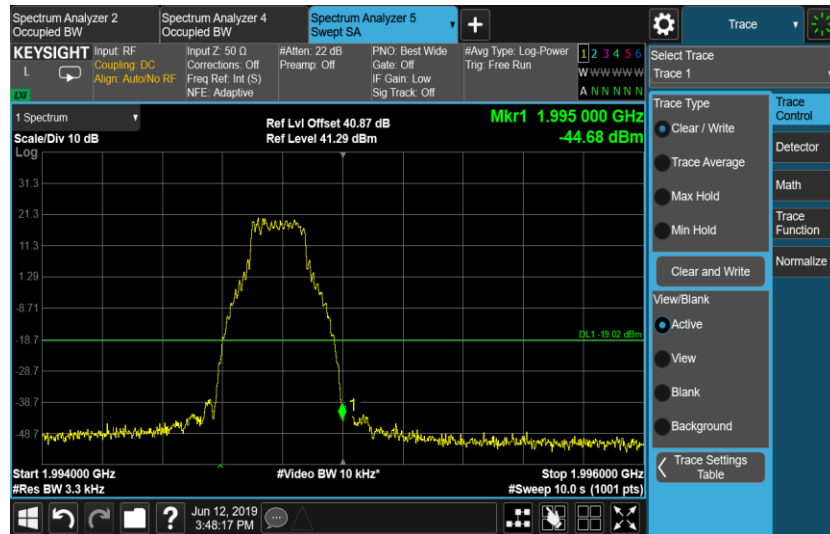
Configuration WCDMA+LTE+NB-IoT-MC-5-BE, (1WCDMA 64QAM +1LTE, QPSK + 2SA, QPSK)

| Band Edge Frequency             | Channel Bandwidth                     | RBW (KHz) | Limit (dBm) |
|---------------------------------|---------------------------------------|-----------|-------------|
| Channel Position B<br>1930.0MHz | (NB) 250KHz, (W) 5.0MHz<br>(L) 5.0MHz | 3.3       | -19.02      |
| Channel Position T<br>1990.0MHz | (NB) 250KHz, (W) 5.0MHz<br>(L) 5.0MHz | 3.3       | -19.02      |

Port B , Channel Position B, LTE 5.0MHz



Port B , Channel Position T, LTE 5.0MHz



## A.4 Conducted Spurious Emission

### A.4.1 Reference

FCC CFR 47 Part 2, Clause 2.1051

FCC CFR 47 Part 24, Clause 24.238 (a)

RSS-133, Clause 6.5

### A.4.2 Method of measurement

In accordance with FCC CFR 47 Part 24, Clause 24.238, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 3KHz to 20GHz. The resolution bandwidth of 1MHz was employed for frequency band 3KHz to 20GHz. The spectrum analyzer detector was set to RMS.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [10Log4] by using the Measure and Add 10Log(N) dB technique according to FCC KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports RF A,B,C and D. Then the limit was adjust to -19.02dBm.

### A.4.3 Measurement limit

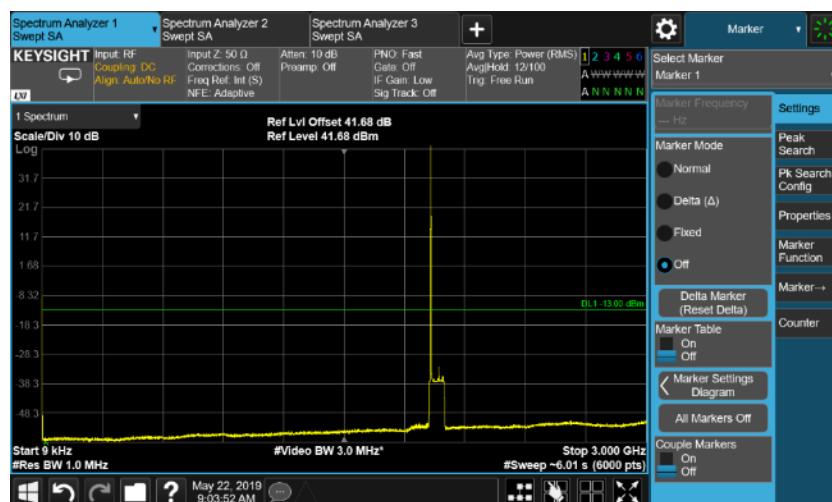
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

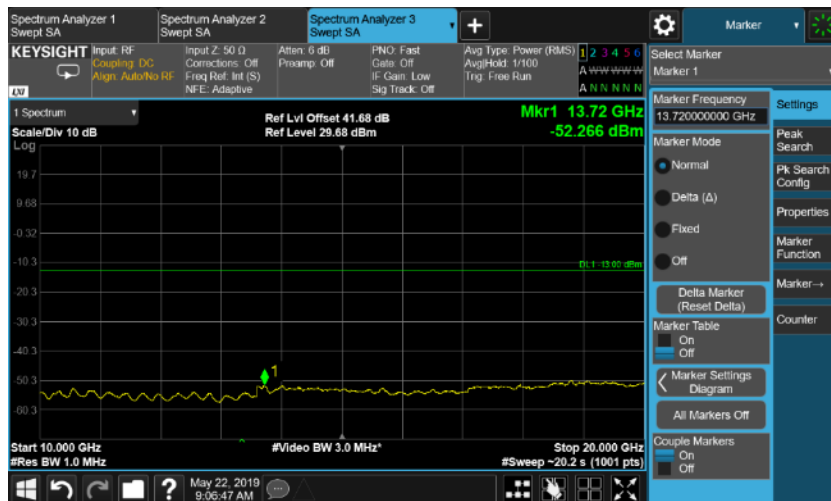
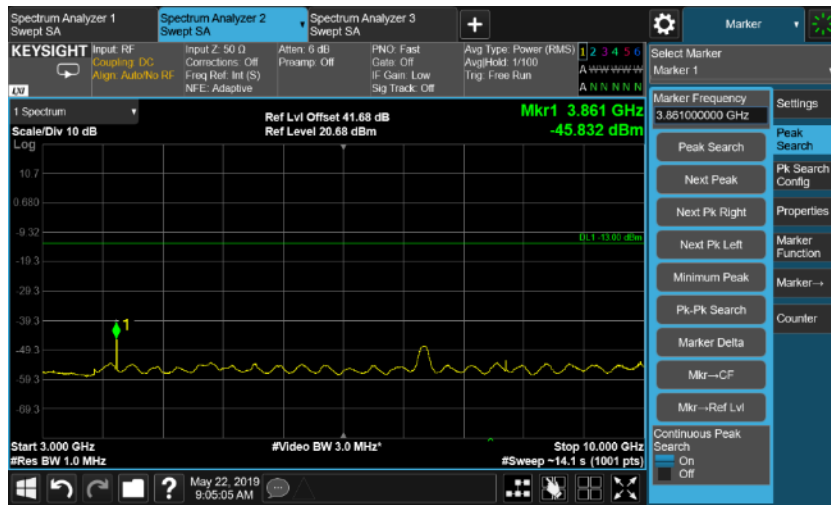
### A.4.4 Measurement results

Configuration GSM-1C GMSK

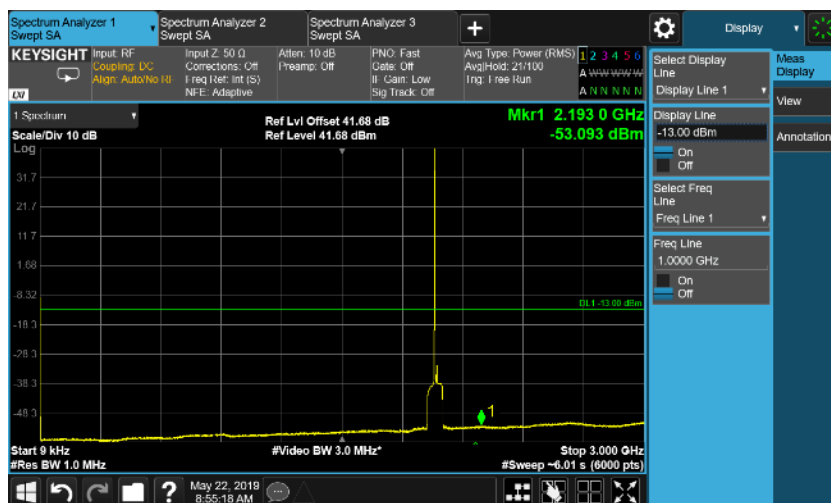
| Channel Bandwidth | RBW (MHz) | Limit (dBm) |
|-------------------|-----------|-------------|
| 250 KHz           | 1.0       | -13.00      |

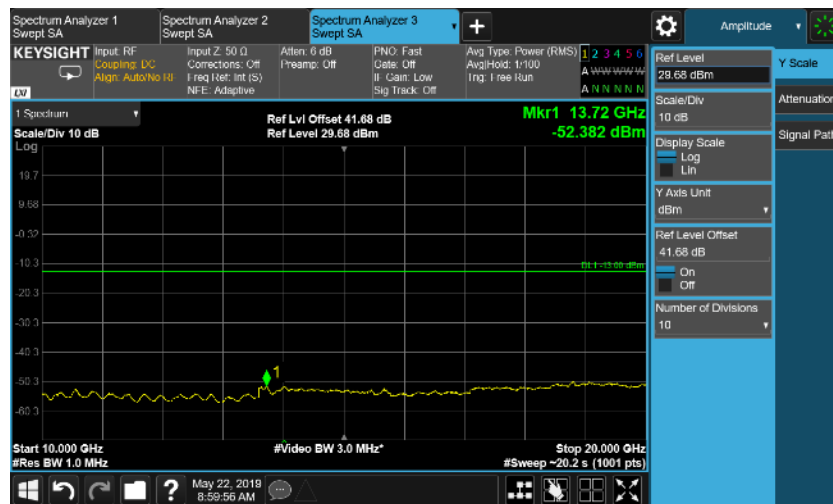
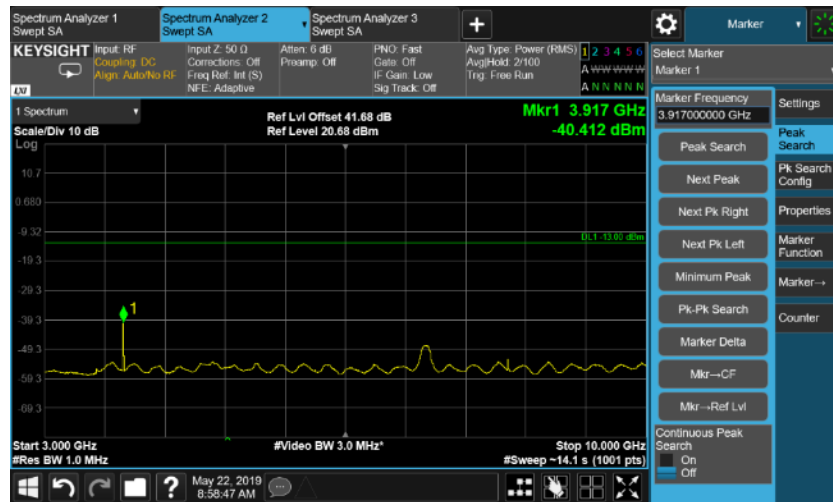
Port A , Channel Position B



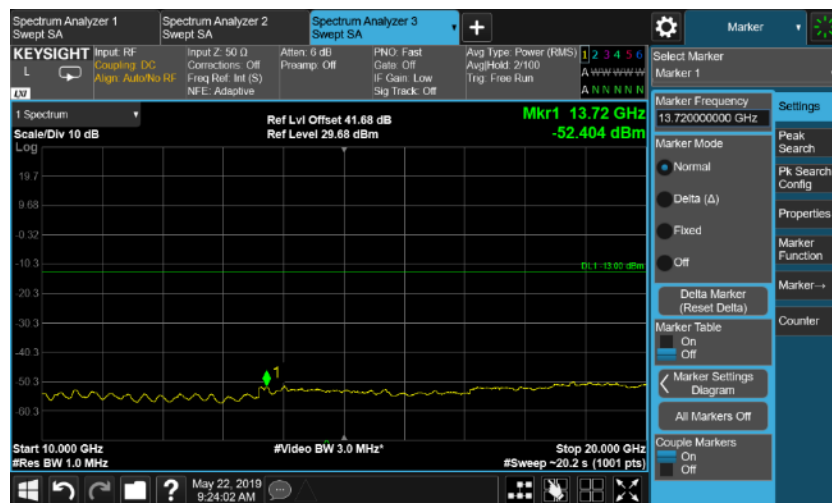
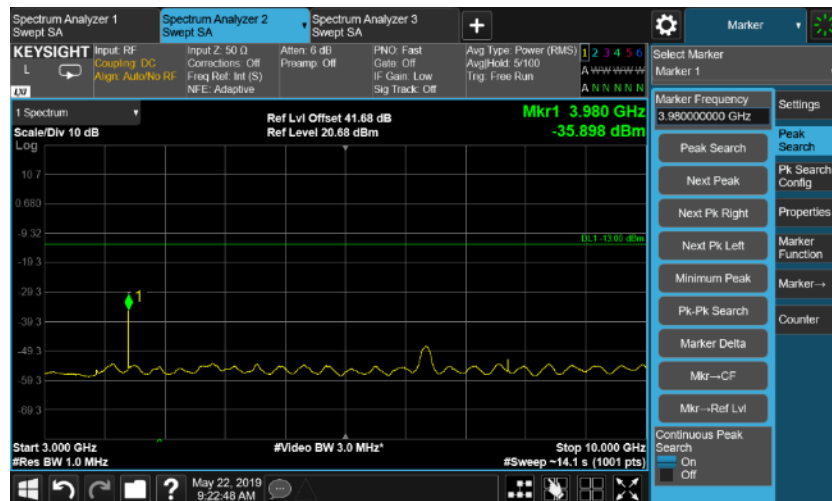
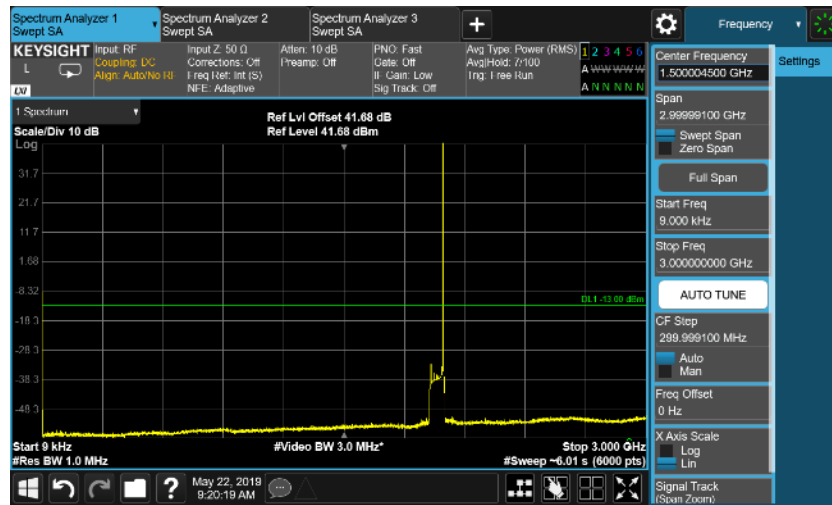


Port A , Channel Position M





Port A , Channel Position T



### Configuration GSM-2C GMSK

| Channel Bandwidth | RBW (MHz) | Limit (dBm) |
|-------------------|-----------|-------------|
| 250 KHz           | 1.0       | -13.00      |

Port A , Channel Position B

