

Figure 8.5-17: Occupied bandwidth, QPSK, LTE, 10 MHz, Port B, mid channel

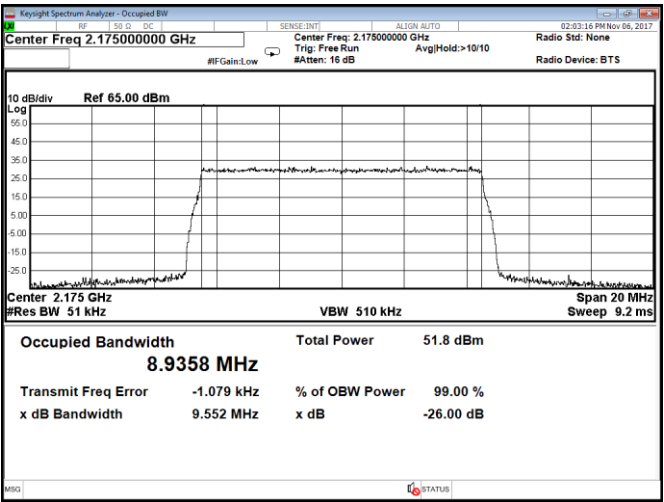


Figure 8.5-18: Occupied bandwidth, QPSK, LTE, 10 MHz, Port B, high channel

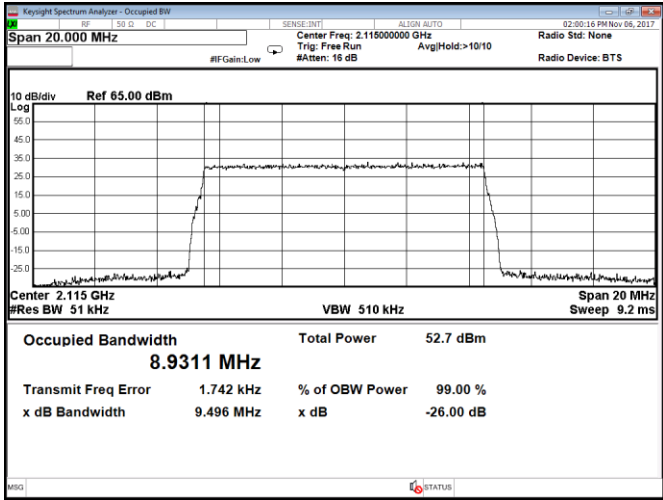


Figure 8.5-19: Occupied bandwidth, QPSK, LTE, 10 MHz, Port C, low channel

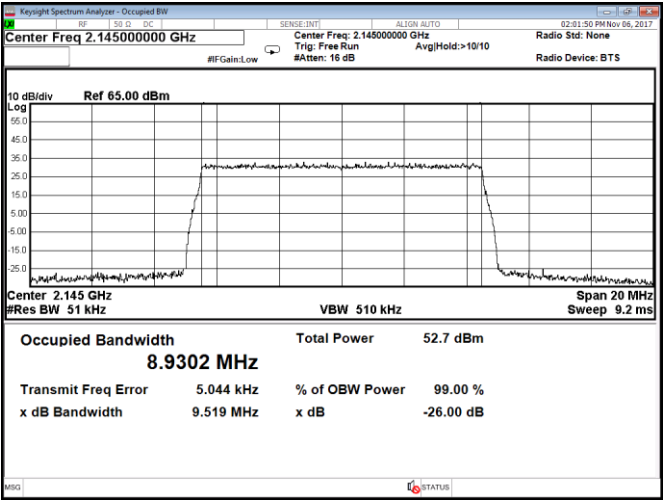


Figure 8.5-20: Occupied bandwidth, QPSK, LTE, 10 MHz, Port C, mid channel

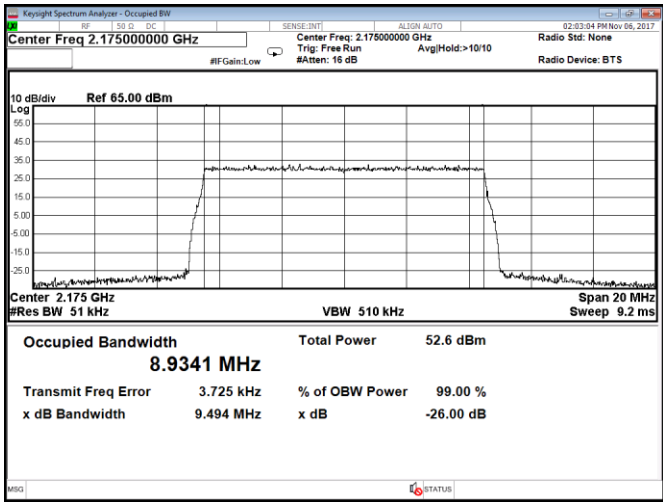


Figure 8.5-21: Occupied bandwidth, QPSK, LTE, 10 MHz, Port C, high channel

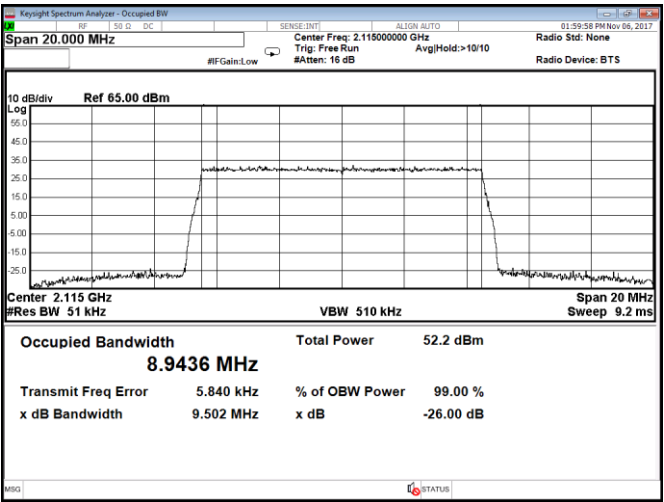


Figure 8.5-22: Occupied bandwidth, QPSK, LTE, 10 MHz, Port D, low channel

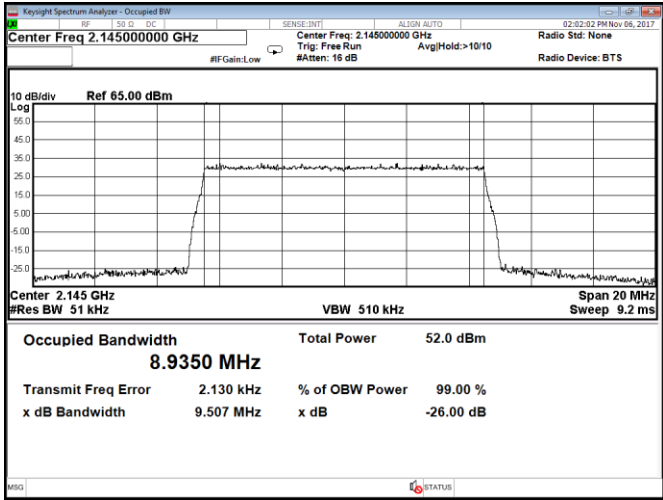


Figure 8.5-23: Occupied bandwidth, QPSK, LTE, 10 MHz, Port D, mid channel

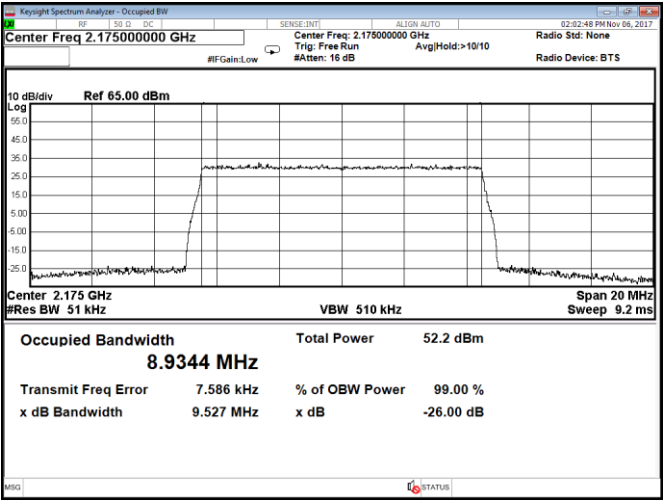


Figure 8.5-24: Occupied bandwidth, QPSK, LTE, 10 MHz, Port D, high channel

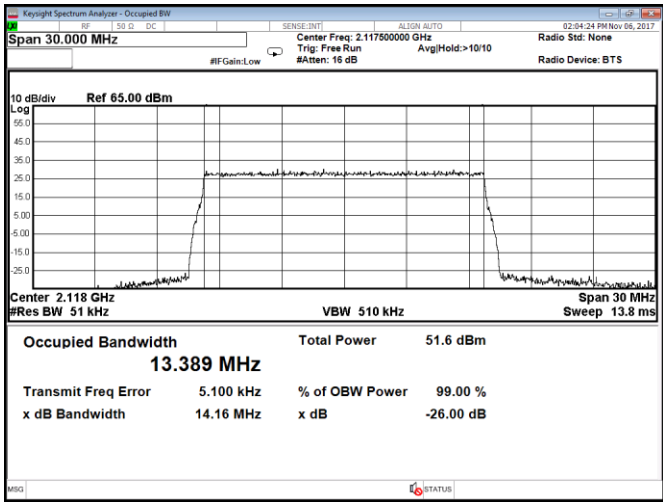


Figure 8.5-25: Occupied bandwidth, QPSK, LTE, 15 MHz, Port A, low channel

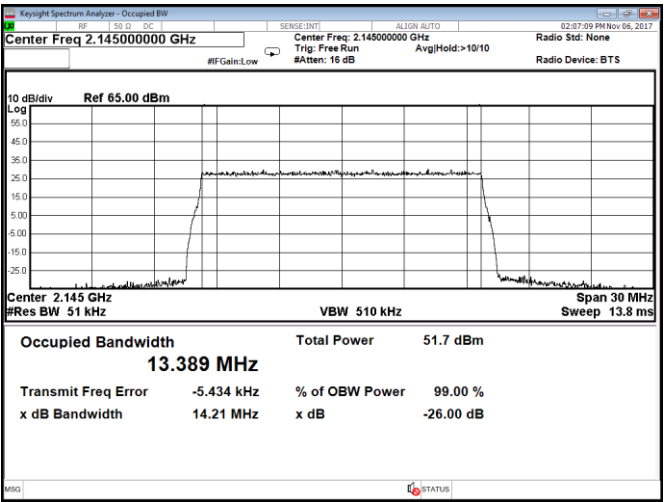


Figure 8.5-26: Occupied bandwidth, QPSK, LTE, 15 MHz, Port A, mid channel

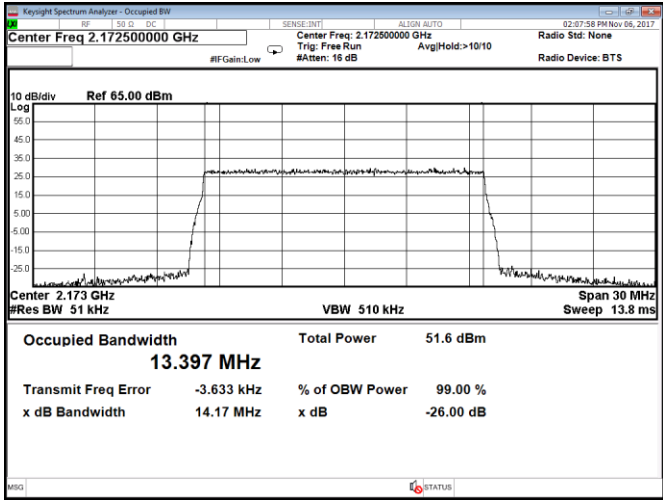


Figure 8.5-27: Occupied bandwidth, QPSK, LTE, 15 MHz, Port A, high channel

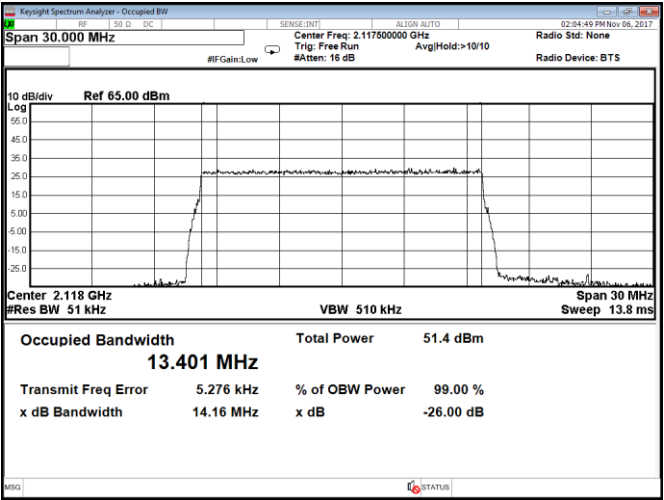


Figure 8.5-28: Occupied bandwidth, QPSK, LTE, 15 MHz, Port B, low channel

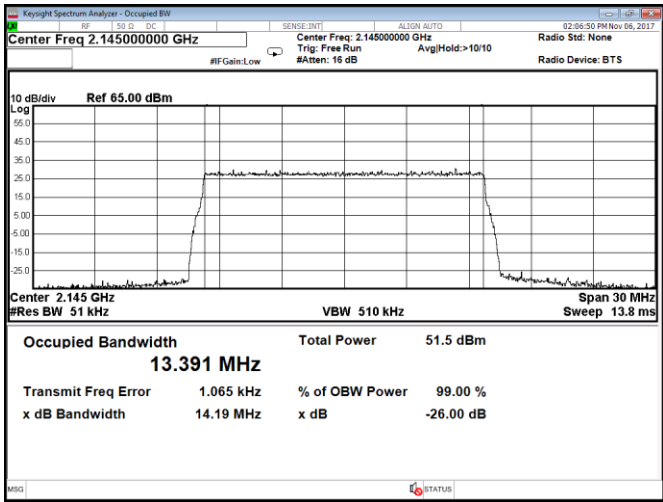


Figure 8.5-29: Occupied bandwidth, QPSK, LTE, 15 MHz, Port B, mid channel

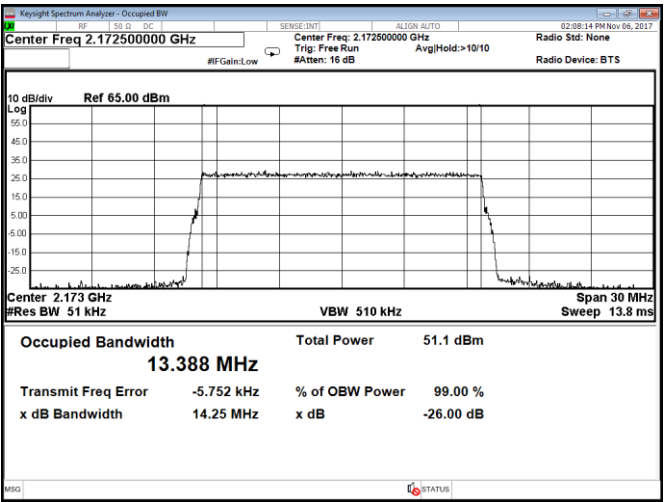


Figure 8.5-30: Occupied bandwidth, QPSK, LTE, 15 MHz, Port B, high channel

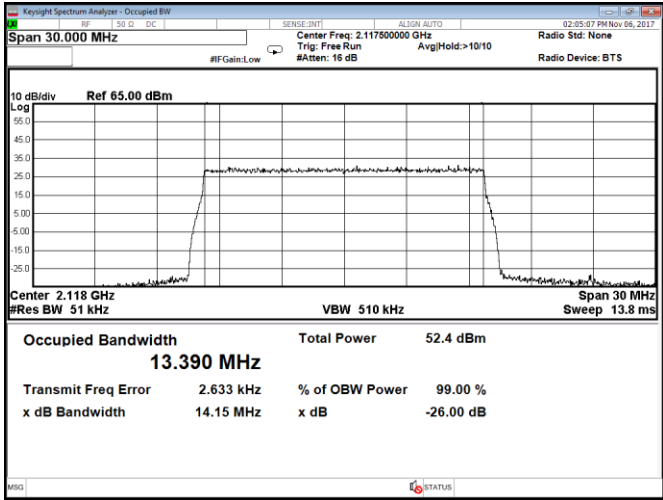


Figure 8.5-31: Occupied bandwidth, QPSK, LTE, 15 MHz, Port C, low channel

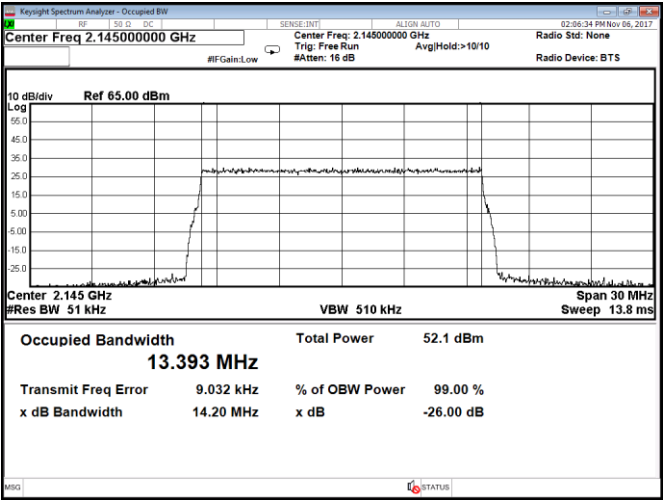


Figure 8.5-32: Occupied bandwidth, QPSK, LTE, 15 MHz, Port C, mid channel

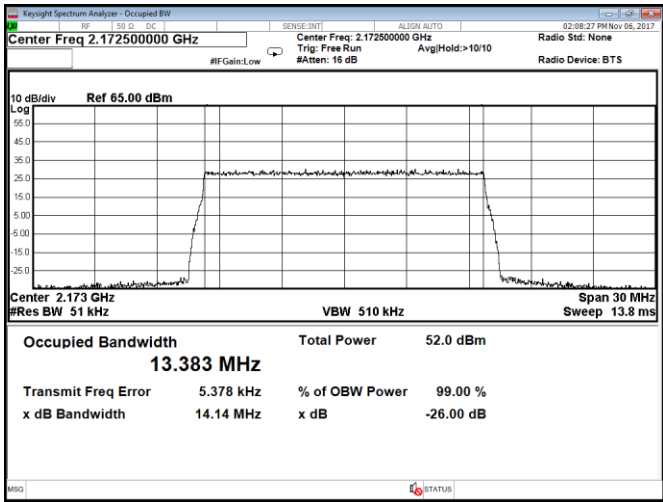


Figure 8.5-33: Occupied bandwidth, QPSK, LTE, 15 MHz, Port C, high channel

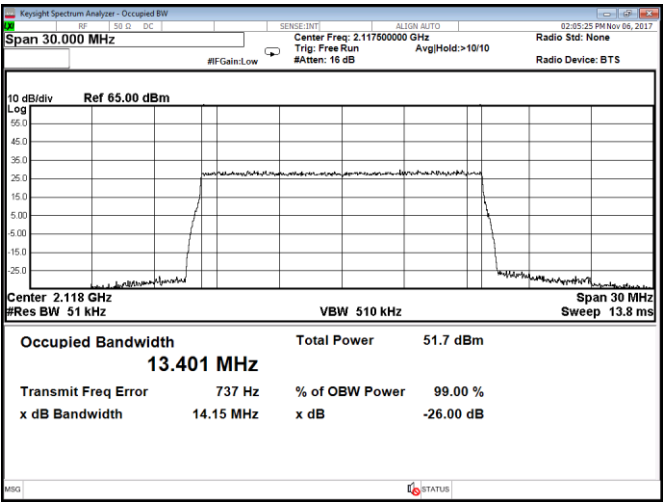


Figure 8.5-34: Occupied bandwidth, QPSK, LTE, 15 MHz, Port D, low channel

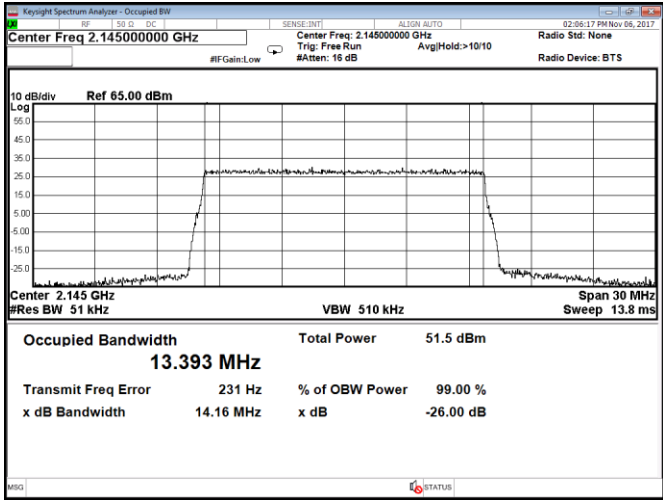


Figure 8.5-35: Occupied bandwidth, QPSK, LTE, 15 MHz, Port D, mid channel

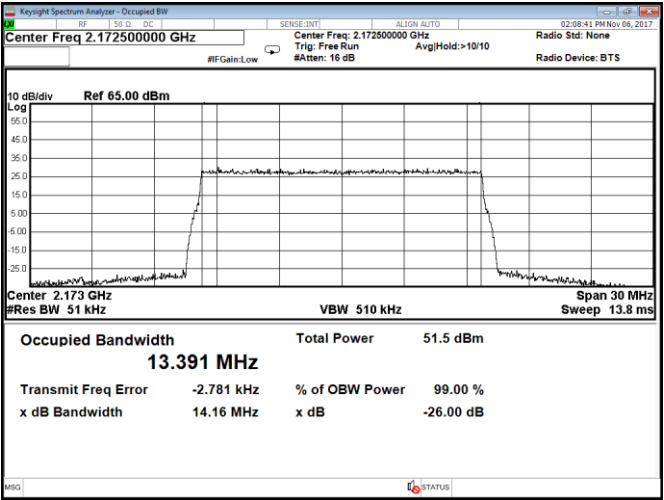


Figure 8.5-36: Occupied bandwidth, QPSK, LTE, 15 MHz, Port D, high channel

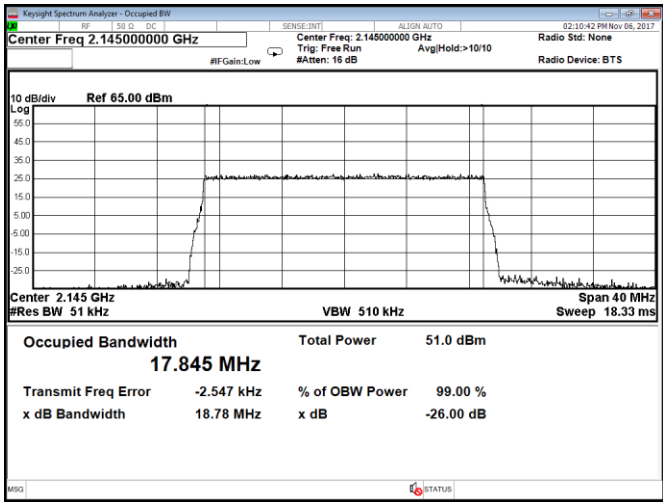


Figure 8.5-37: Occupied bandwidth, QPSK, LTE, 20 MHz, Port A, low channel

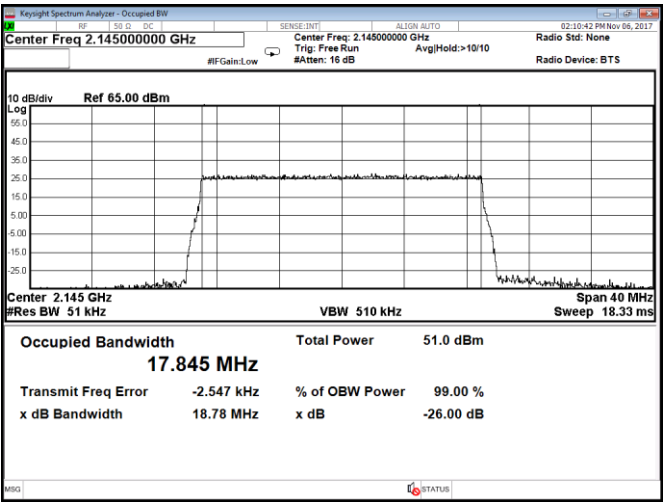


Figure 8.5-38: Occupied bandwidth, QPSK, LTE, 20 MHz, Port A, mid channel

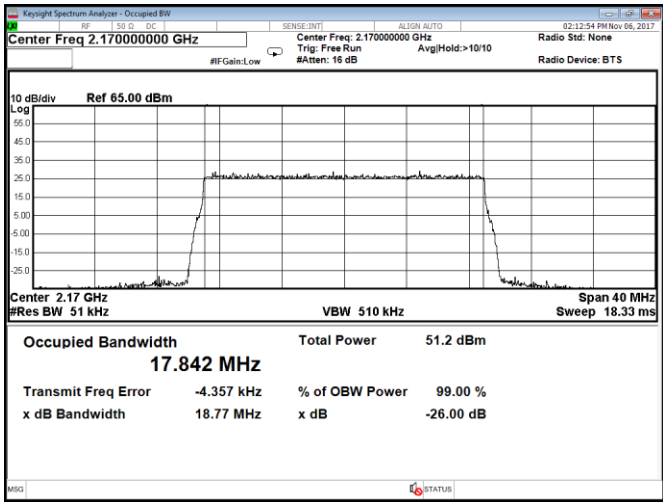


Figure 8.5-39: Occupied bandwidth, QPSK, LTE, 20 MHz, Port A, high channel

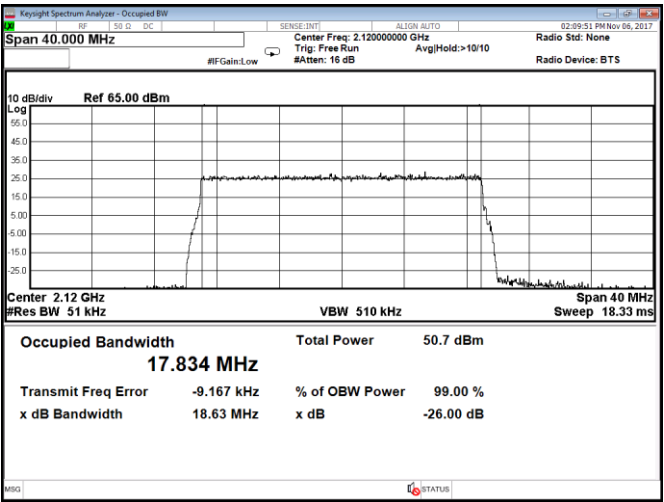


Figure 8.5-40: Occupied bandwidth, QPSK, LTE, 20 MHz, Port B, low channel

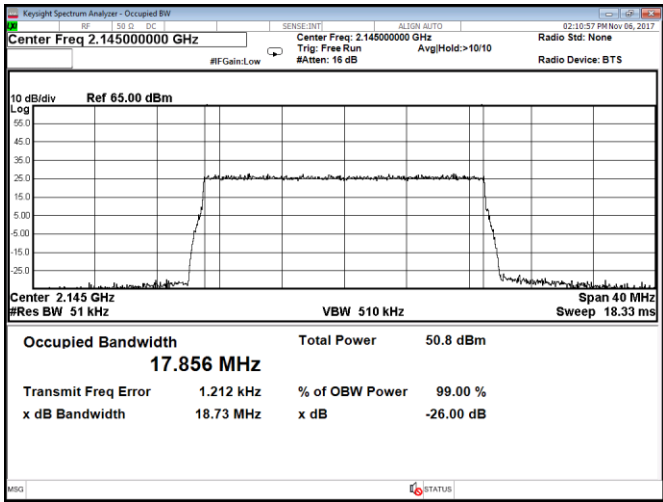


Figure 8.5-41: Occupied bandwidth, QPSK, LTE, 20 MHz, Port B, mid channel

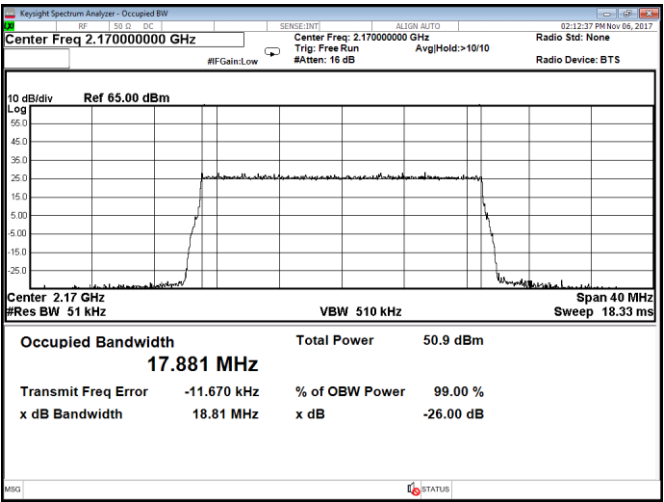


Figure 8.5-42: Occupied bandwidth, QPSK, LTE, 20 MHz, Port B, high channel

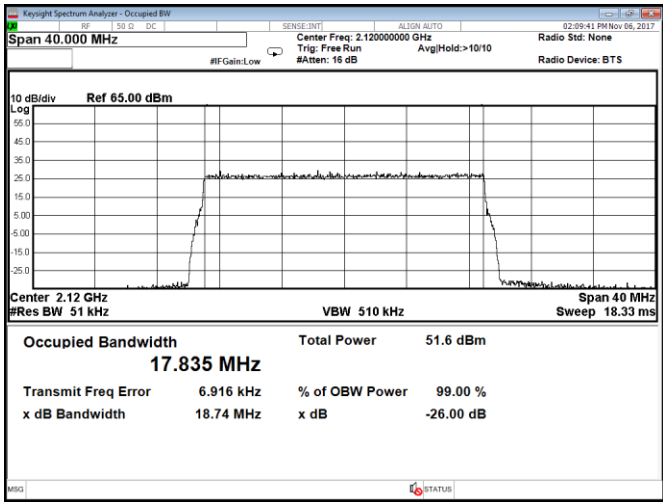


Figure 8.5-43: Occupied bandwidth, QPSK, LTE, 20 MHz, Port C, low channel

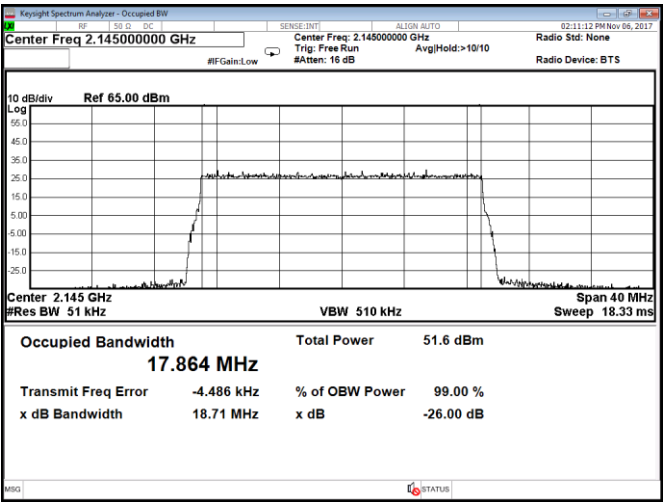


Figure 8.5-44: Occupied bandwidth, QPSK, LTE, 20 MHz, Port C, mid channel

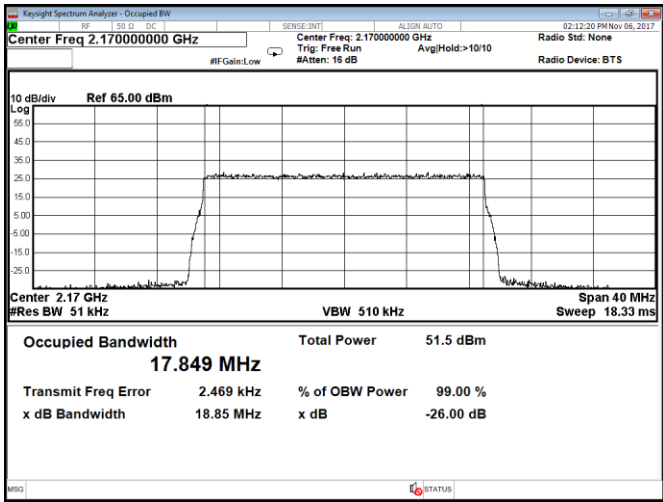


Figure 8.5-45: Occupied bandwidth, QPSK, LTE, 20 MHz, Port C, high channel

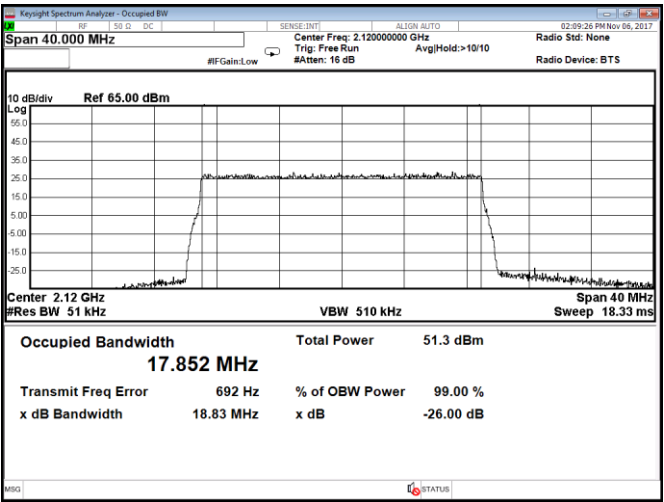


Figure 8.5-46: Occupied bandwidth, QPSK, LTE, 20 MHz, Port D, low channel

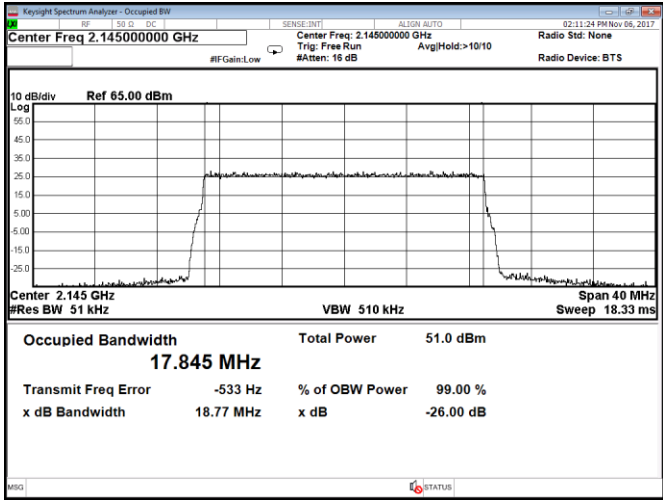


Figure 8.5-47: Occupied bandwidth, QPSK, LTE, 20 MHz, Port D, mid channel

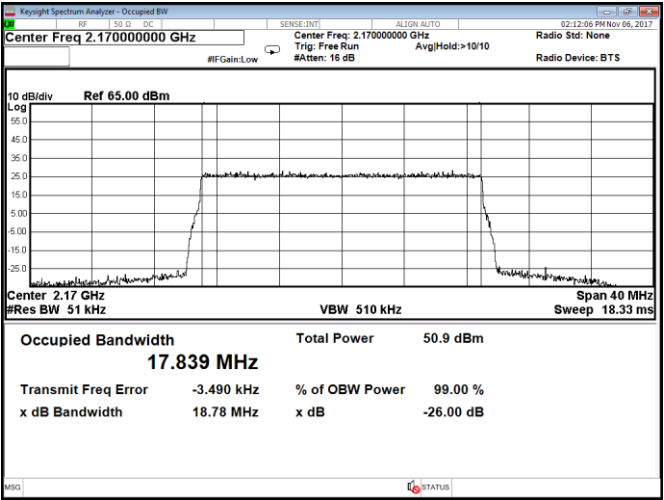


Figure 8.5-48: Occupied bandwidth, QPSK, LTE, 20 MHz, Port D, high channel



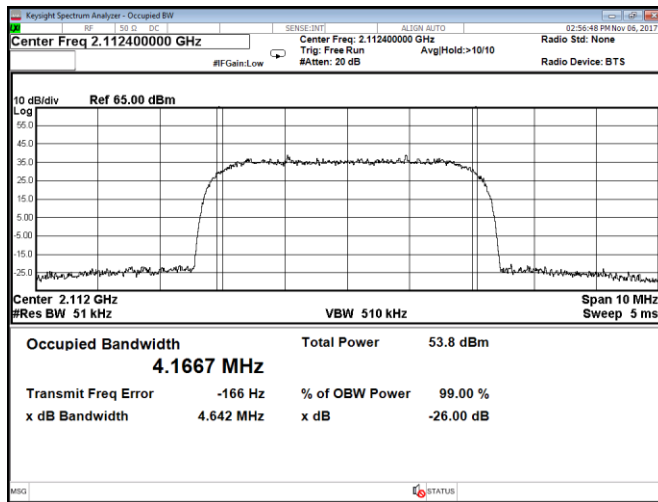


Figure 8.5-49: Occupied bandwidth, QPSK, WCDMA, Port A, low channel

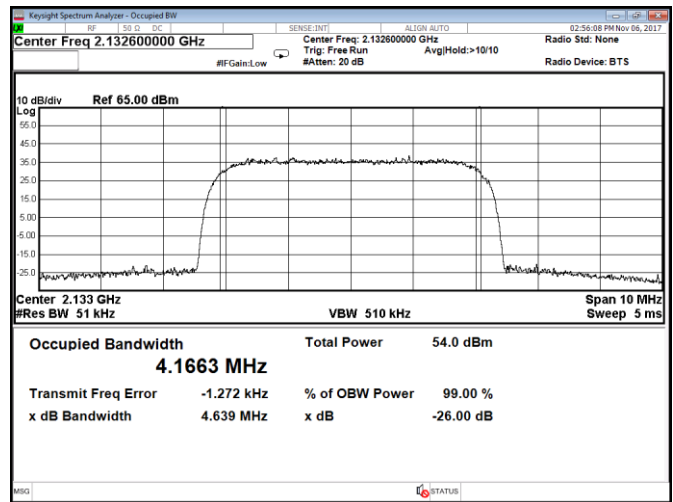


Figure 8.5-50: Occupied bandwidth, QPSK, WCDMA, Port A, mid channel

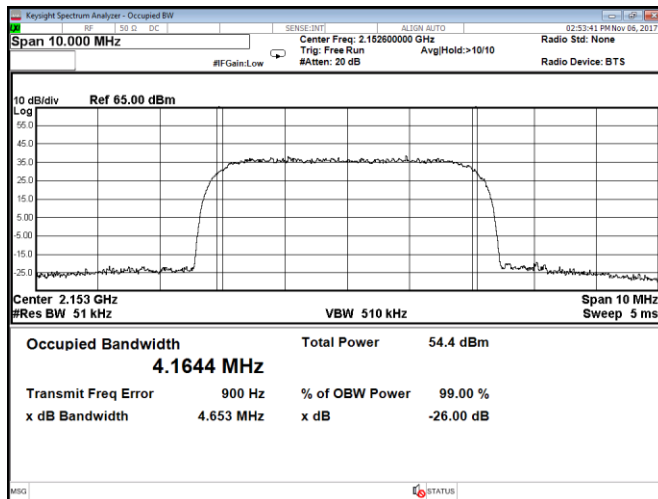


Figure 8.5-51: Occupied bandwidth, QPSK, WCDMA, Port A, high channel

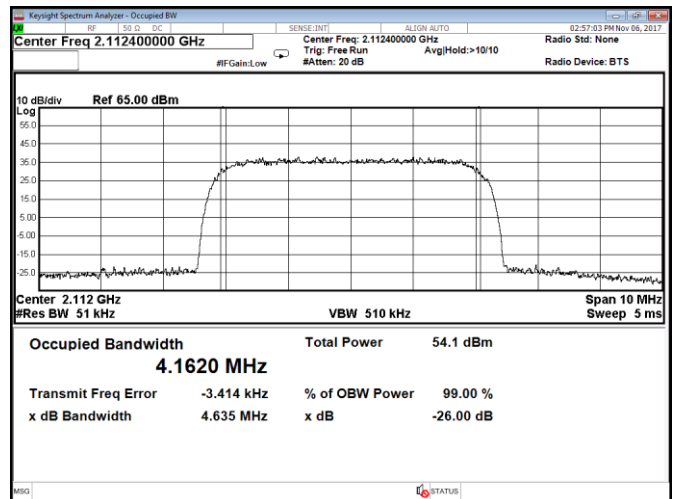


Figure 8.5-52: Occupied bandwidth, QPSK, WCDMA, Port B, low channel

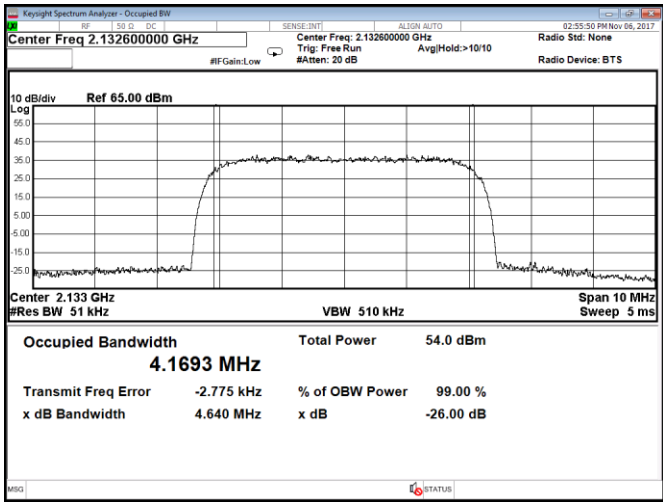


Figure 8.5-53: Occupied bandwidth, QPSK, WCDMA, Port B, mid channel

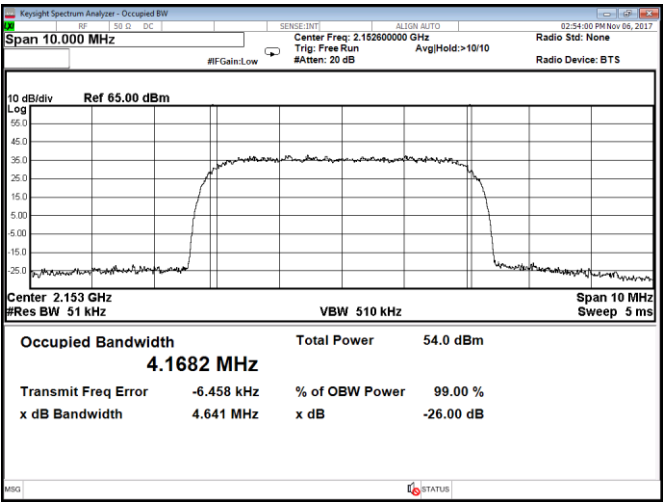


Figure 8.5-54: Occupied bandwidth, QPSK, WCDMA, Port B, high channel

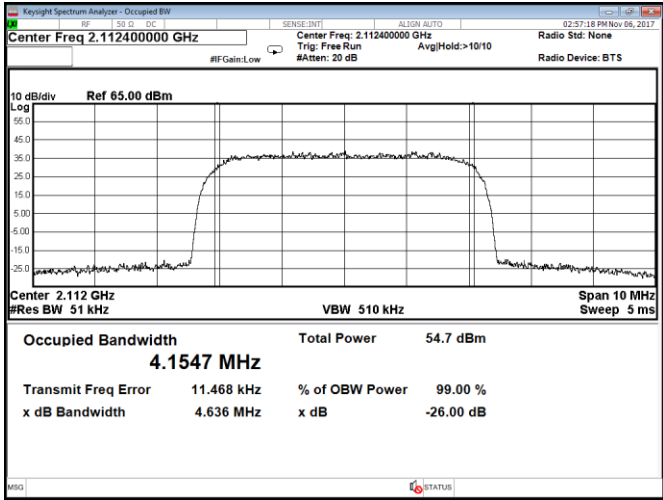


Figure 8.5-55: Occupied bandwidth, QPSK, WCDMA, Port C, low channel

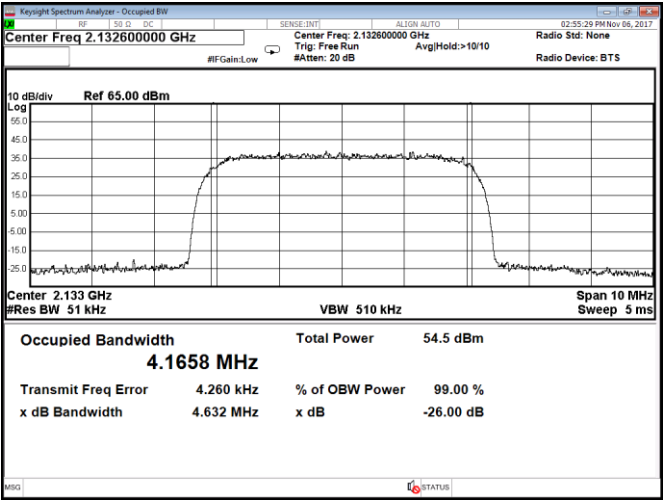


Figure 8.5-56: Occupied bandwidth, QPSK, WCDMA, Port C, mid channel

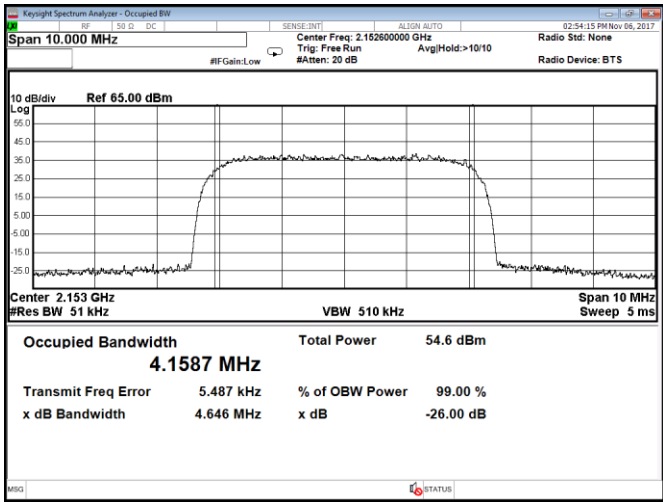


Figure 8.5-57: Occupied bandwidth, QPSK, WCDMA, Port C, high channel

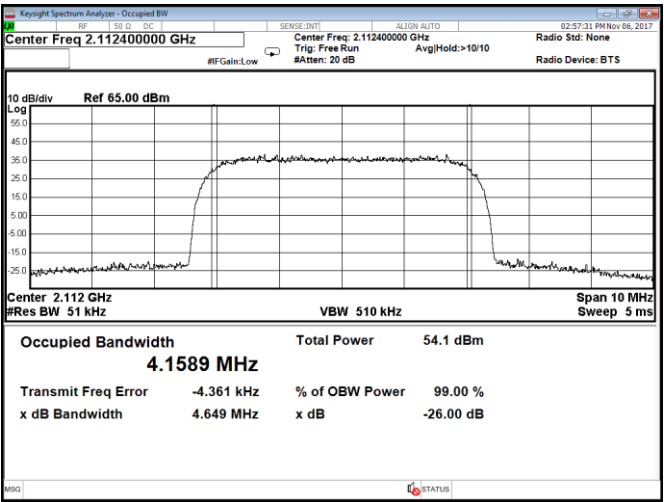


Figure 8.5-58: Occupied bandwidth, QPSK, WCDMA, Port D, low channel

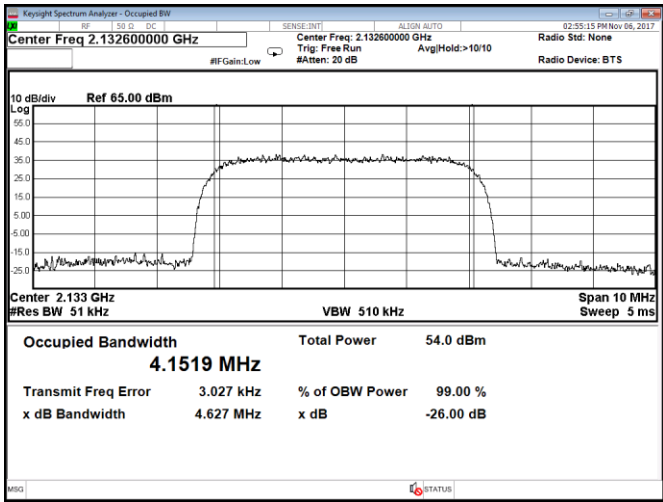


Figure 8.5-59: Occupied bandwidth, QPSK, WCDMA, Port D, mid channel

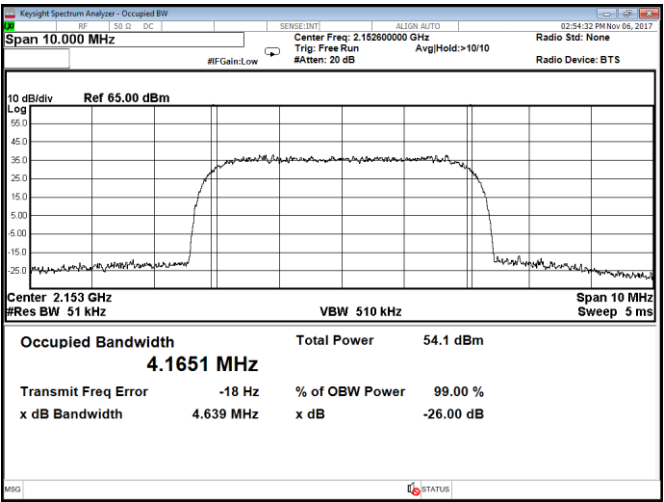


Figure 8.5-60: Occupied bandwidth, QPSK, WCDMA, Port D, high channel

## 8.6 RSS-Gen, 7.1.3 Receiver conducted limits

### 8.6.1 Definitions and limits

If the receiver has a detachable antenna of known impedance, an antenna-conducted spurious emissions measurement is permitted as an alternative to radiated measurement. However, the radiated method of Section 7.1.2 is preferred.

The antenna-conducted test shall be performed with the antenna disconnected and with the receiver antenna terminals connected to a measuring instrument having equal impedance to that specified for the antenna.

The receiver-spurious emissions measured at the antenna terminals by the antenna-conducted method shall then comply with the following limits:

Receiver-spurious emissions at any discrete frequency shall not exceed 2 nW in the band 30–1000 MHz, nor 5 nW above 1000 MHz.

### 8.6.2 Test summary

Test date	November 7, 2017	Temperature	22 °C
Test engineer	Andrey Adelberg	Air pressure	1009 mbar
Verdict	Pass	Relative humidity	33 %

### 8.6.3 Observations, settings and special notes

Due to 4 antenna array limit line was adjusted by 6 dB ( $10 \times \log_{10}(4) = 6 \text{ dB}$ )

Spectrum analyzer settings:

Detector mode	Peak
Resolution bandwidth	120 kHz (below 1 GHz), 1 MHz (above 1 GHz)
Video bandwidth	RBW $\times$ 3
Trace mode	Max Hold

## 8.6.4 Test data

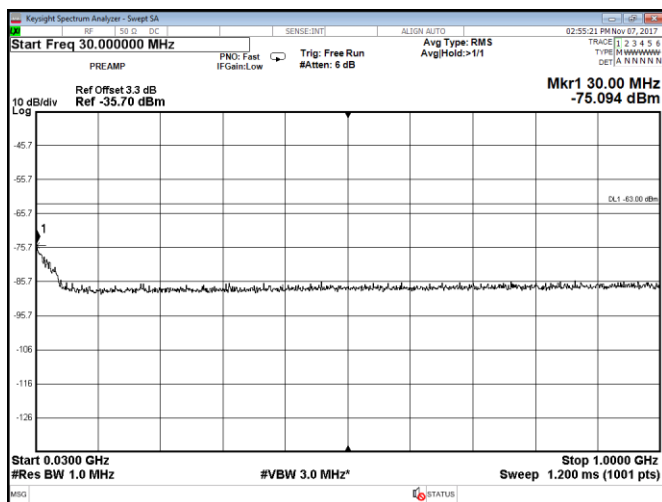


Figure 8.6-1: Receiver spurious emissions at port A, below 1 GHz

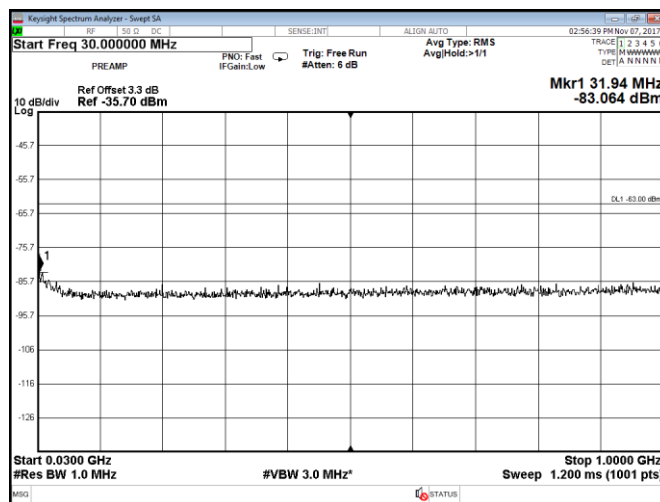


Figure 8.6-2: Receiver spurious emissions at Port B, below 1 GHz

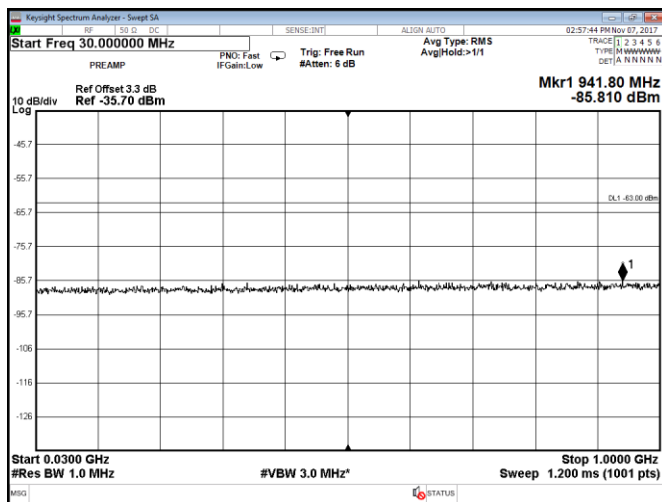


Figure 8.6-3: Receiver spurious emissions at port C, below 1 GHz

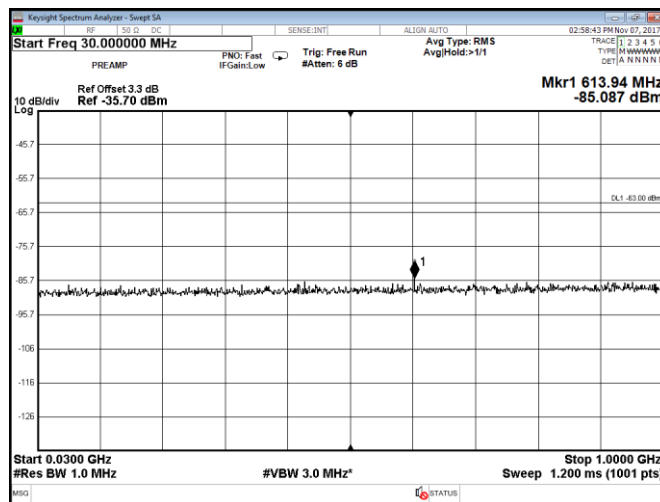


Figure 8.6-4: Receiver spurious emissions at Port D, below 1 GHz

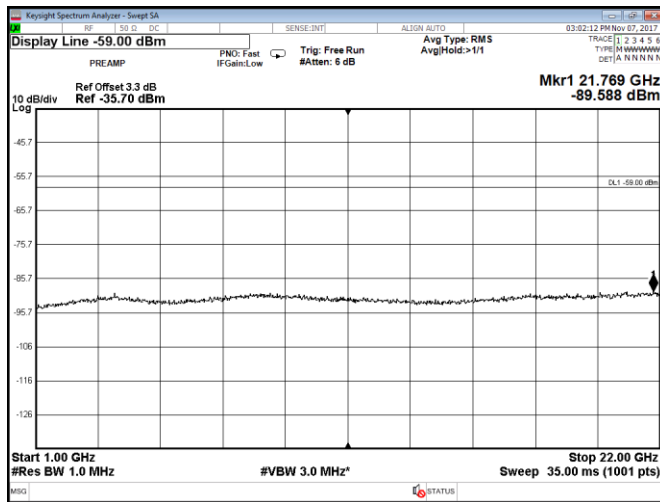


Figure 8.6-5: Receiver spurious emissions at port A, above 1 GHz

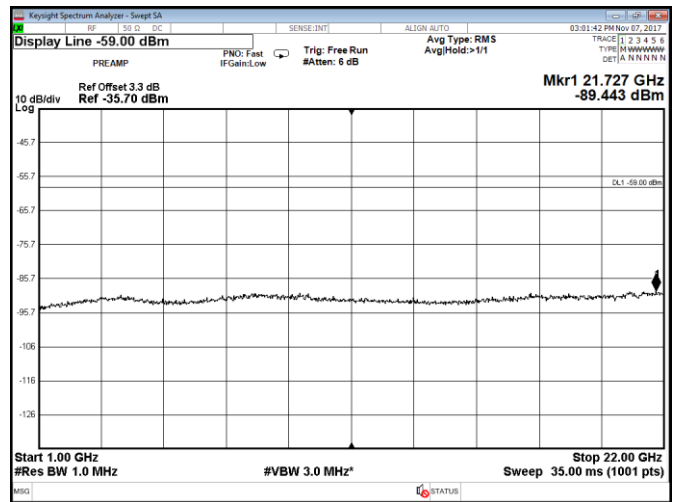


Figure 8.6-6: Receiver spurious emissions at Port B, above 1 GHz

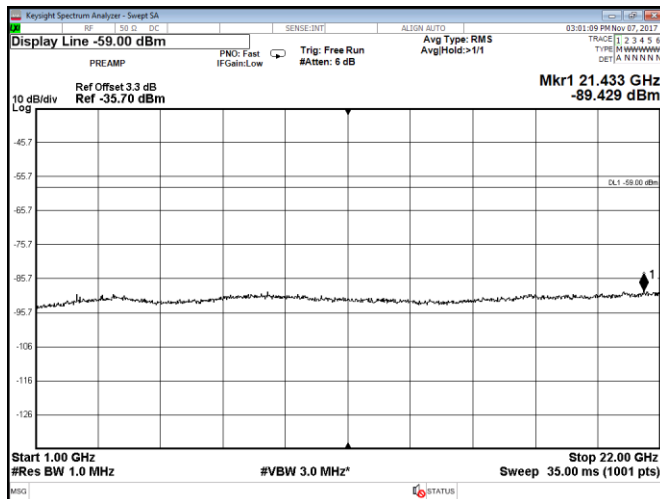


Figure 8.6-7: Receiver spurious emissions at port C, above 1 GHz

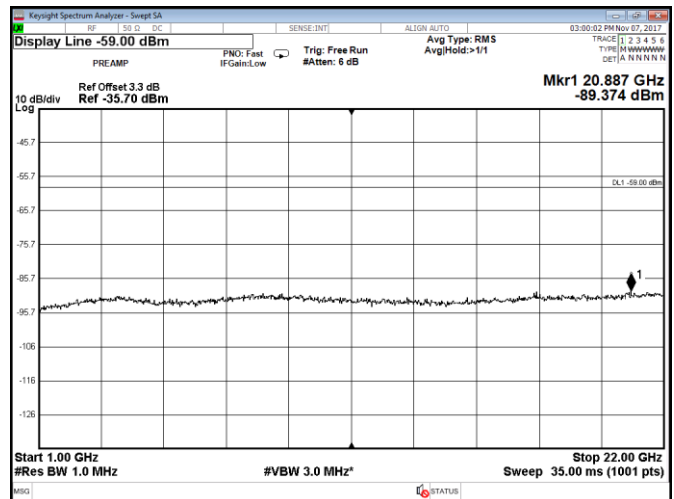
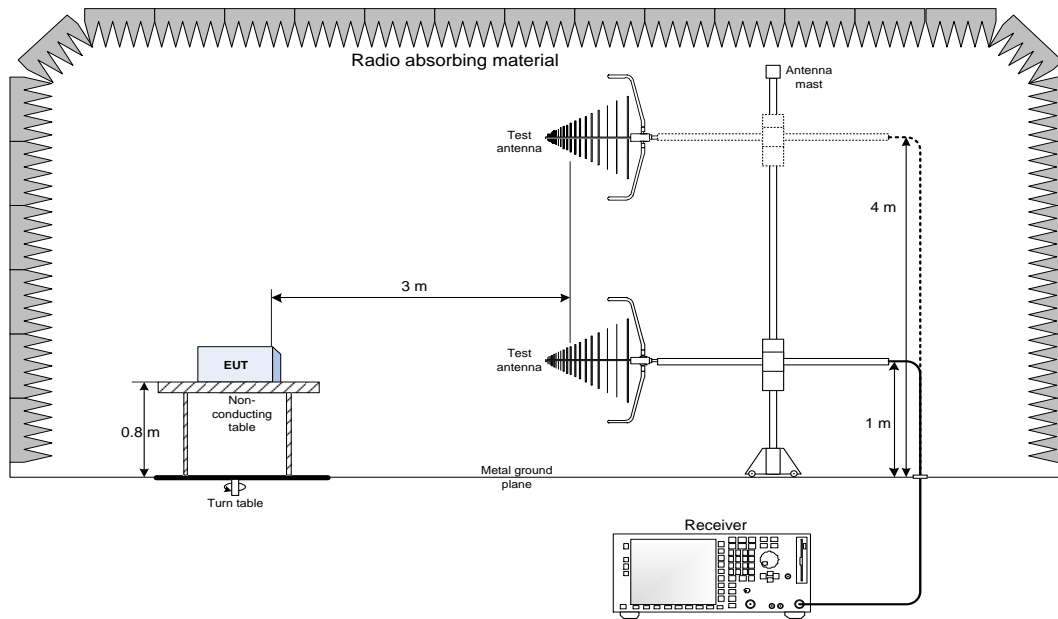


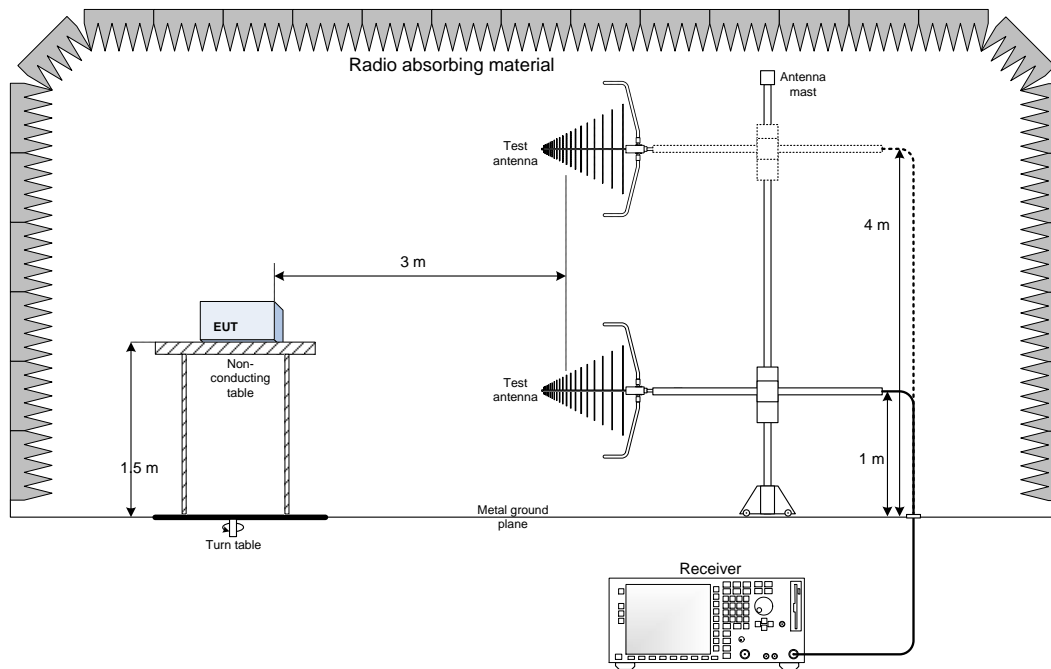
Figure 8.6-8: Receiver spurious emissions at Port D, above 1 GHz

## Section 9. Block diagrams of test set-ups

### 9.1 Radiated emissions set-up for frequencies below 1 GHz



### 9.2 Radiated emissions set-up for frequencies above 1 GHz



### 9.3 Conducted emissions set-up

---

