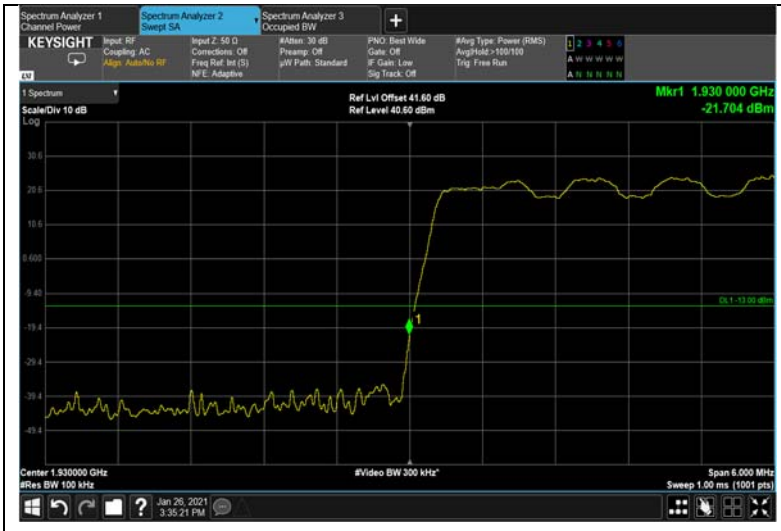


**Figure 111: 16QAM 5MHz B.W.; 1932.5MHz, 15kHz Lower Edge**

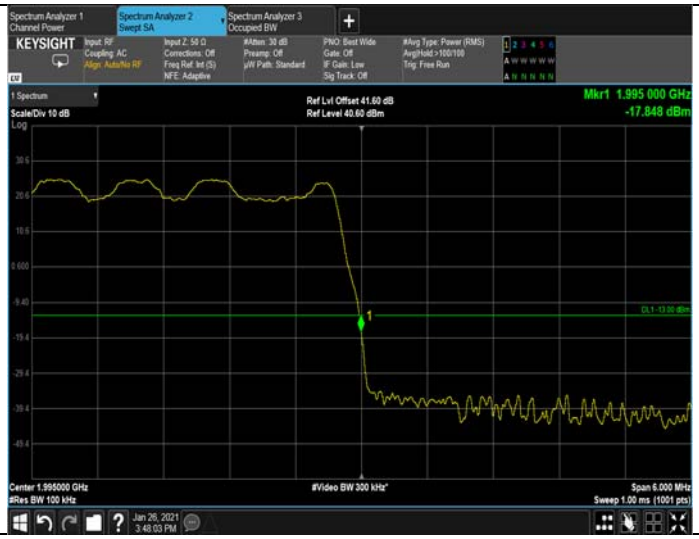


**Figure 112: 16QAM 5MHz B.W.; 1992.5MHz, 15kHz Upper Edge**

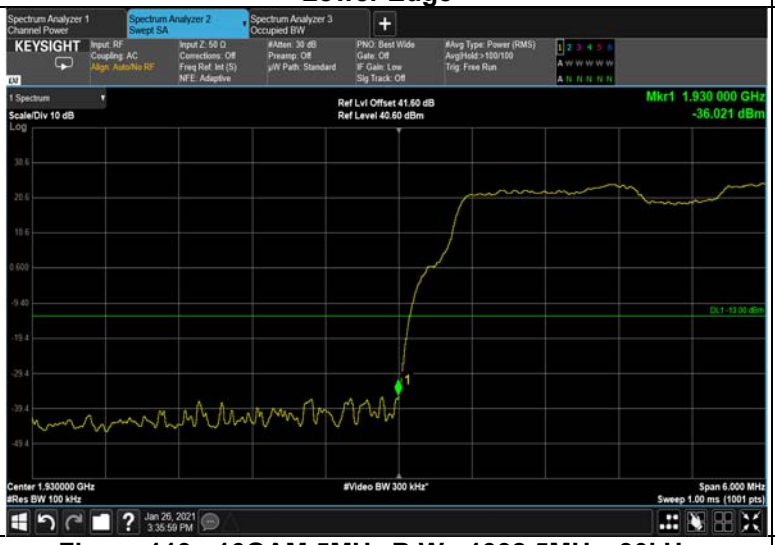


**Figure 113: 16QAM 5MHz B.W.; 1932.5MHz, 30kHz Lower Edge**

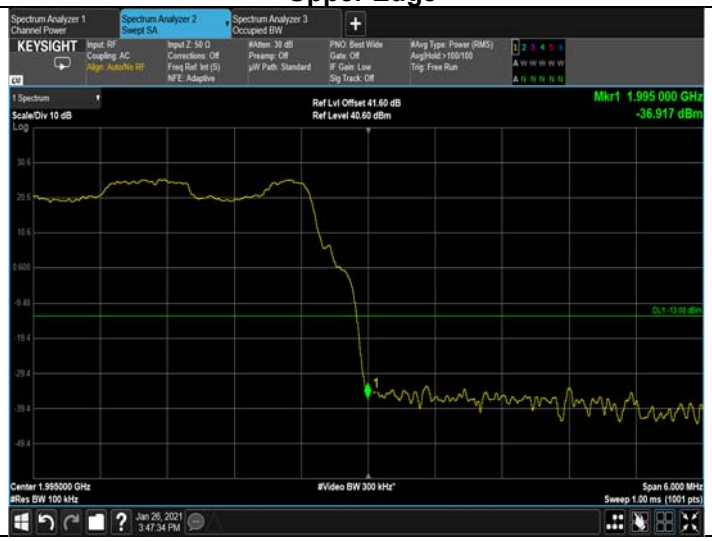


**Figure 114: 16QAM 5MHz B.W.; 1992.5MHz, 30kHz Upper Edge**

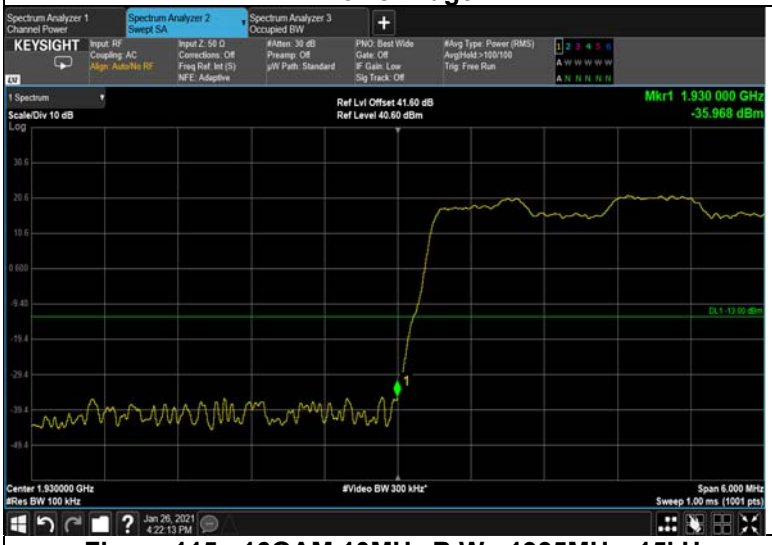


**Figure 115: 16QAM 10MHz B.W.; 1935MHz, 15kHz Lower Edge**

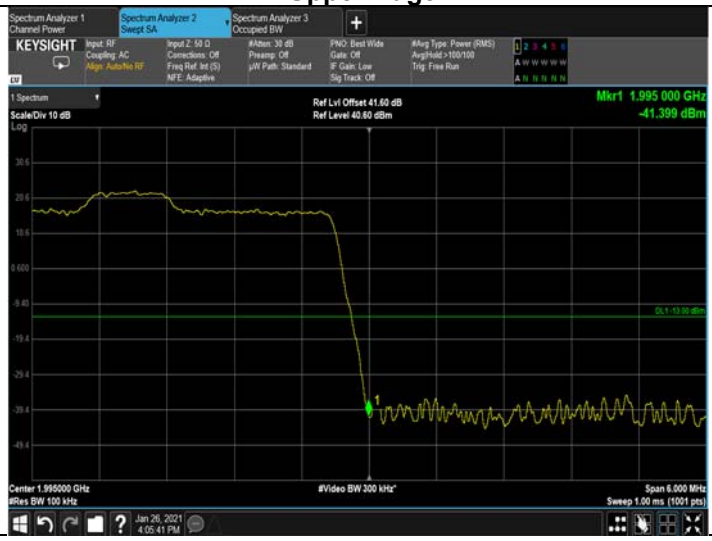


**Figure 116: 16QAM 10MHz B.W.; 1990MHz, 15kHz Upper Edge**

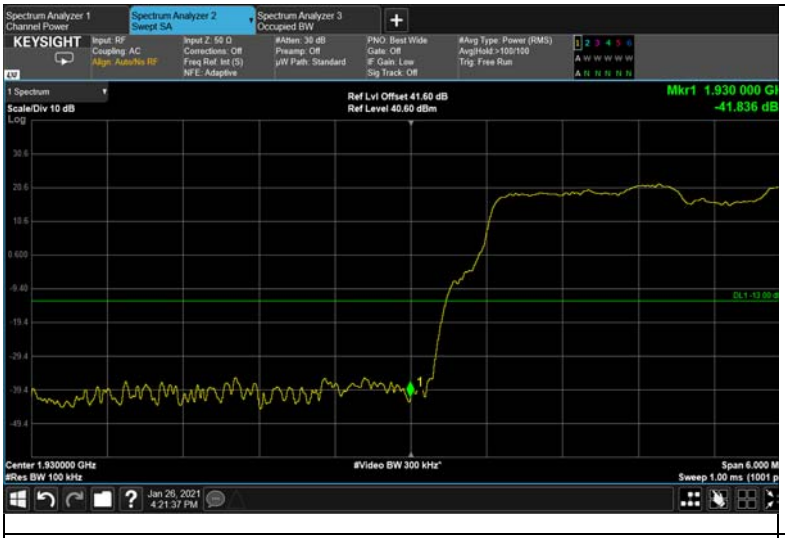


**Figure 117: 16QAM 10MHz B.W.; 1935MHz, 30kHz Lower Edge**

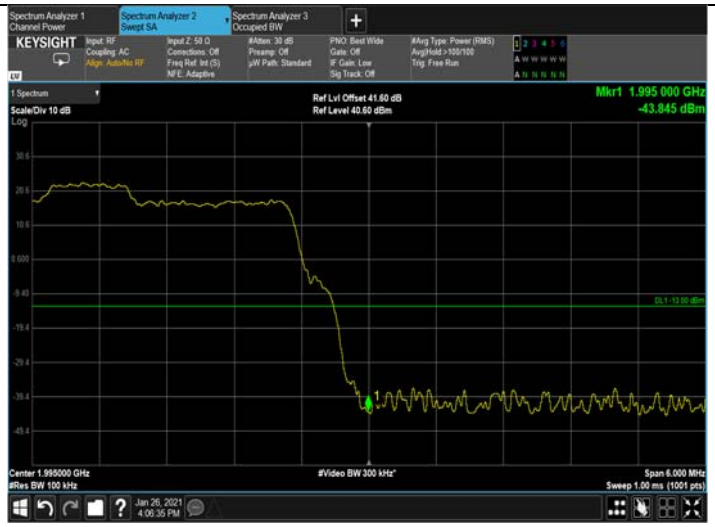


**Figure 118: 16QAM 10MHz B.W.; 1990MHz, 30kHz Upper Edge**

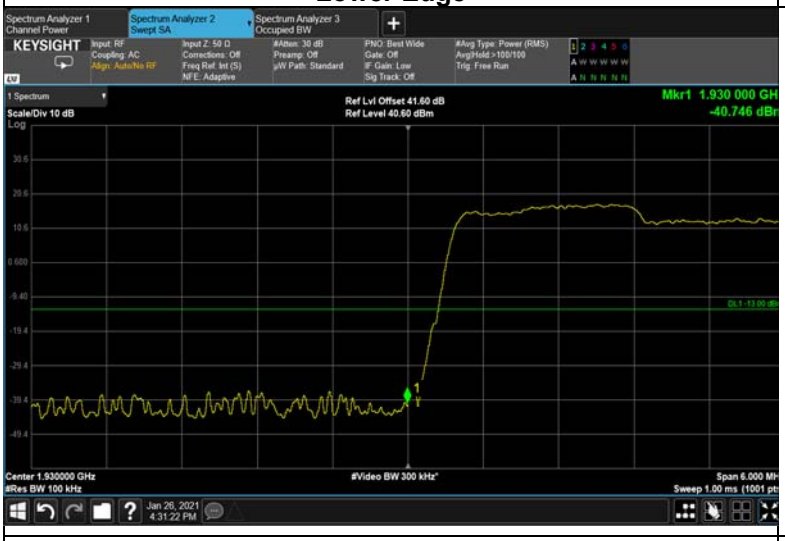


**Figure 119: 16QAM 15MHz B.W.; 1937.5MHz, 15kHz Lower Edge**

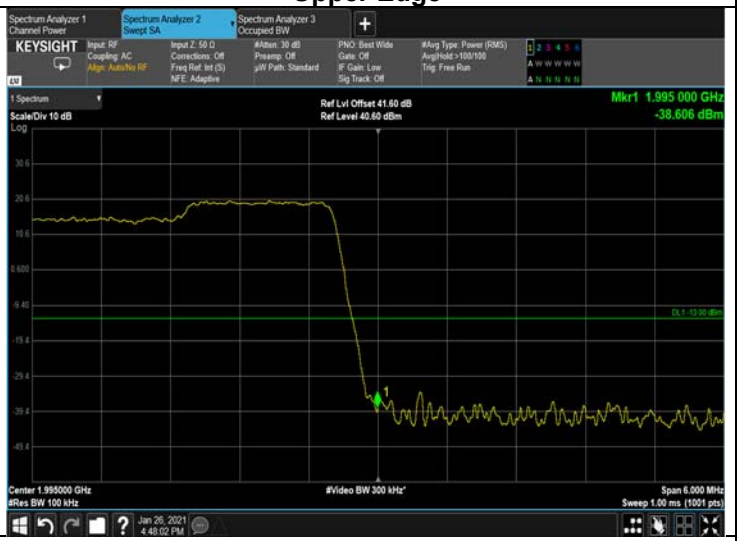


**Figure 120: 16QAM 15MHz B.W.; 1987.5MHz, 15kHz Upper Edge**

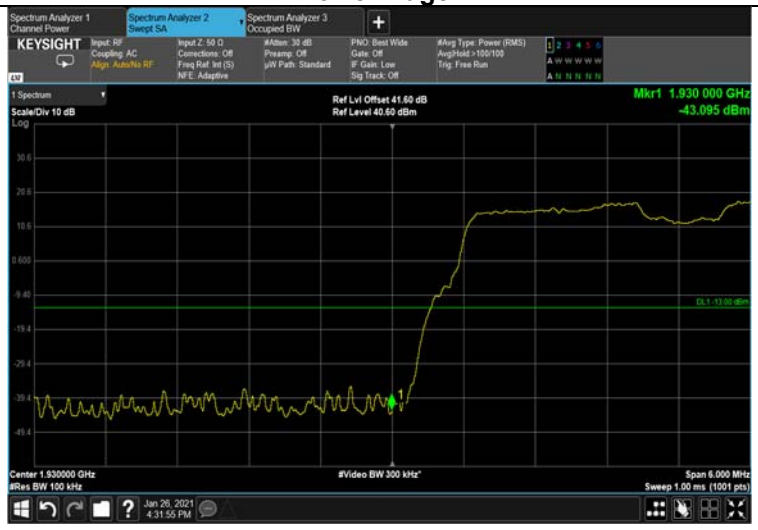


**Figure 121: 16QAM 15MHz B.W.; 1987.5MHz, 30kHz Lower Edge**

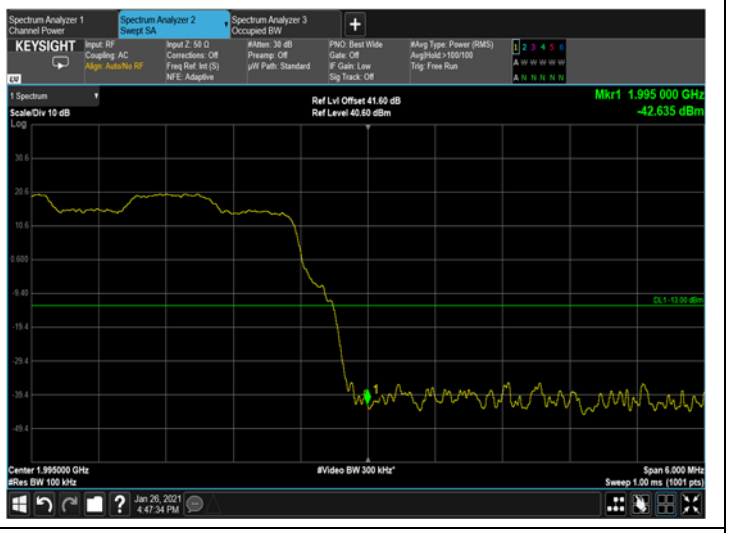


**Figure 122: 16QAM 15MHz B.W.; 1987.5MHz, 30kHz Upper Edge**

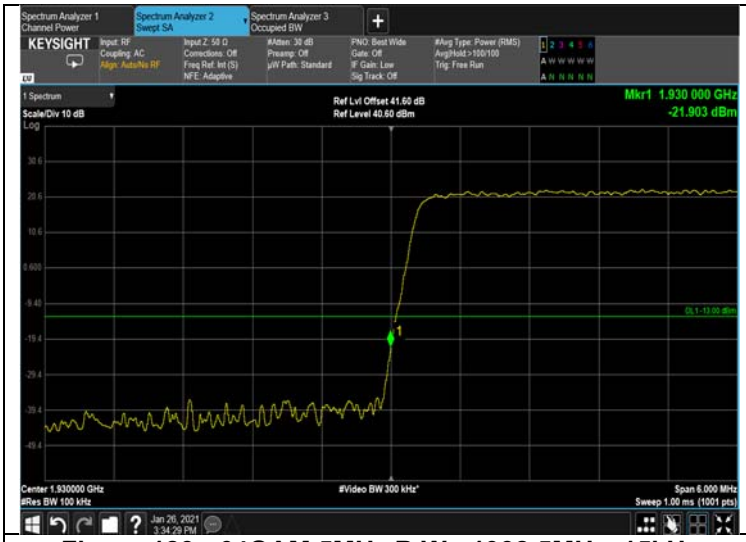


**Figure 123: 64QAM 5MHz B.W.; 1932.5MHz, 15kHz Lower Edge**

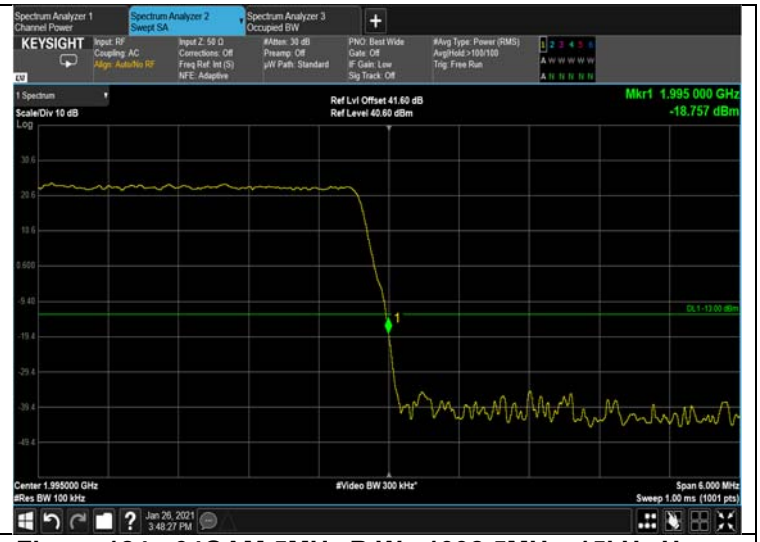


**Figure 124: 64QAM 5MHz B.W.; 1992.5MHz, 15kHz Upper Edge**


**Figure 125: 64QAM 5MHz B.W.; 1932.5MHz, 30kHz Lower Edge**


**Figure 126: 64QAM 5MHz B.W.; 1992.5MHz, 30kHz Upper Edge**

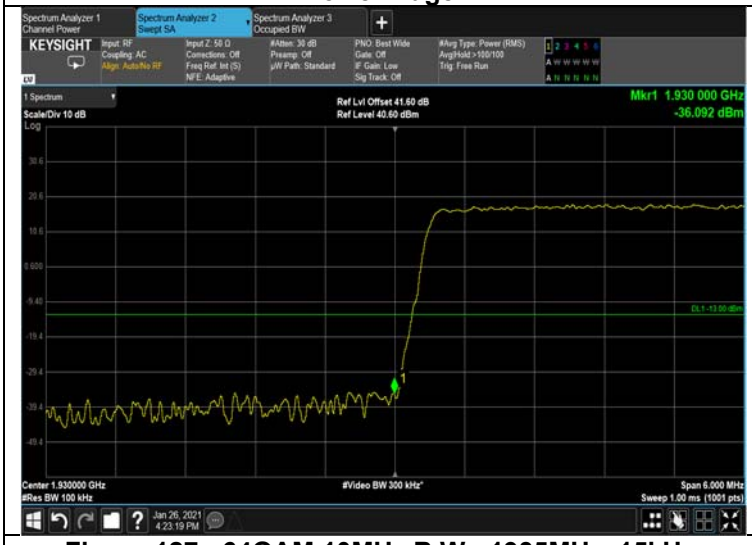


**Figure 127: 64QAM 10MHz B.W.; 1935MHz, 15kHz Lower Edge**

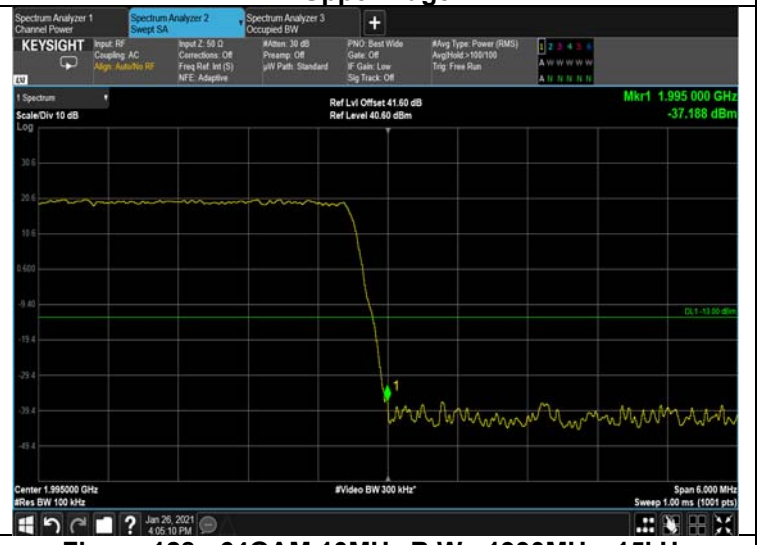


**Figure 128: 64QAM 10MHz B.W.; 1990MHz, 15kHz Upper Edge**

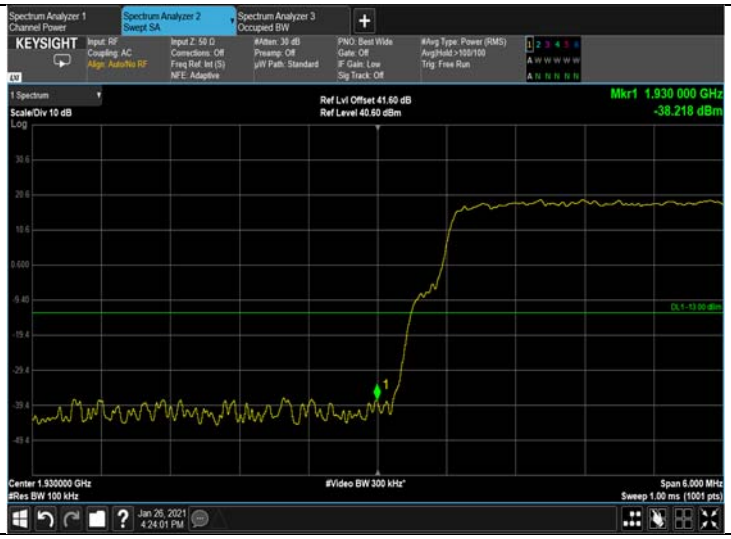


**Figure 129: 64QAM 10MHz B.W.; 1935MHz, 30kHz Lower Edge**

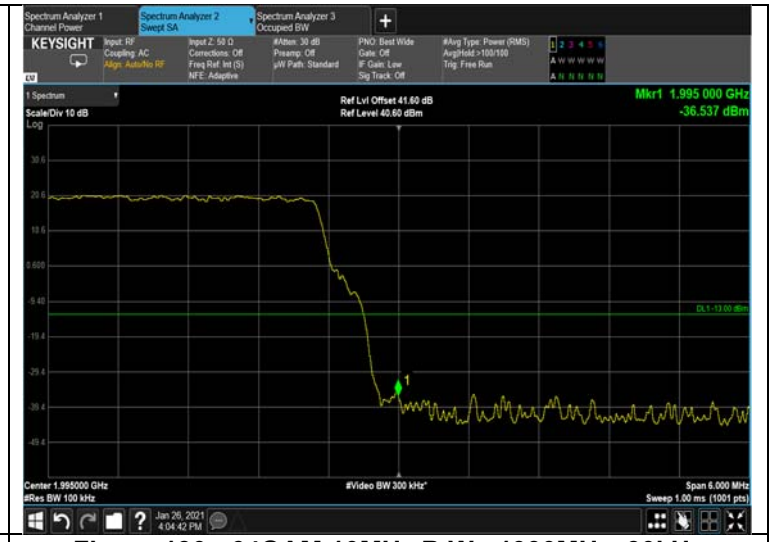


**Figure 130: 64QAM 10MHz B.W.; 1990MHz, 30kHz Upper Edge**

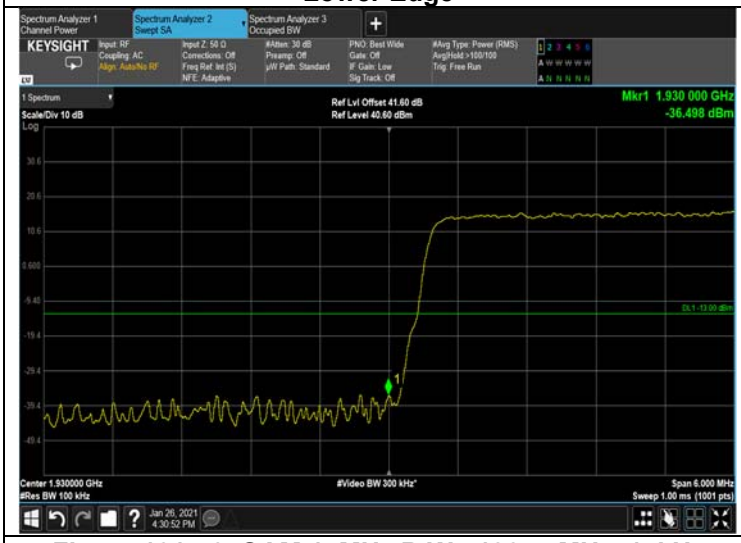


**Figure 131: 64QAM 15MHz B.W.; 1937.5MHz, 15kHz Lower Edge**

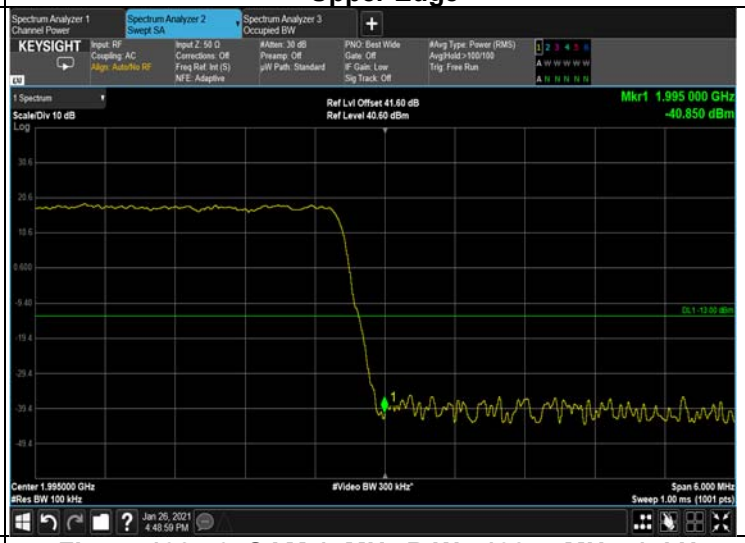


**Figure 132: 64QAM 15MHz B.W.; 1987.5MHz, 15kHz Upper Edge**

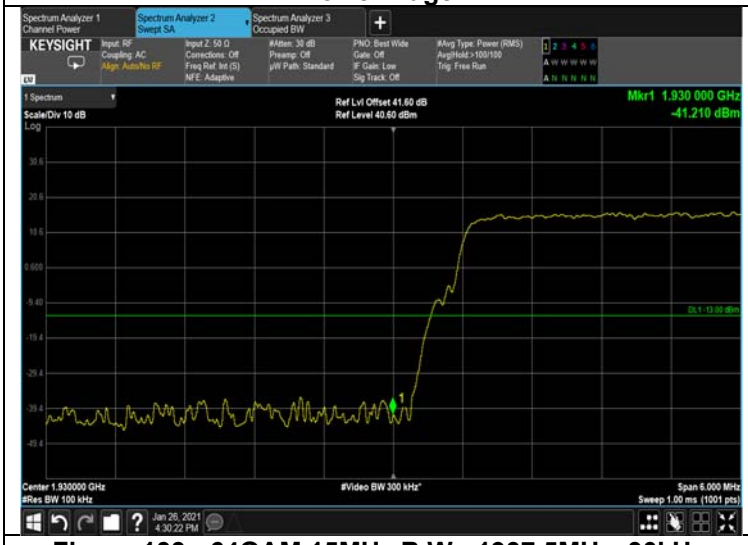


**Figure 133: 64QAM 15MHz B.W.; 1937.5MHz, 30kHz Lower Edge**

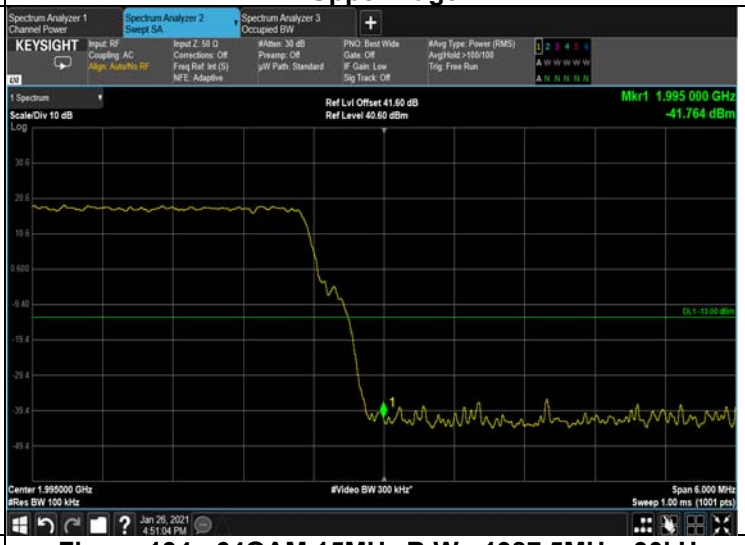


**Figure 134: 64QAM 15MHz B.W.; 1987.5MHz, 30kHz Upper Edge**

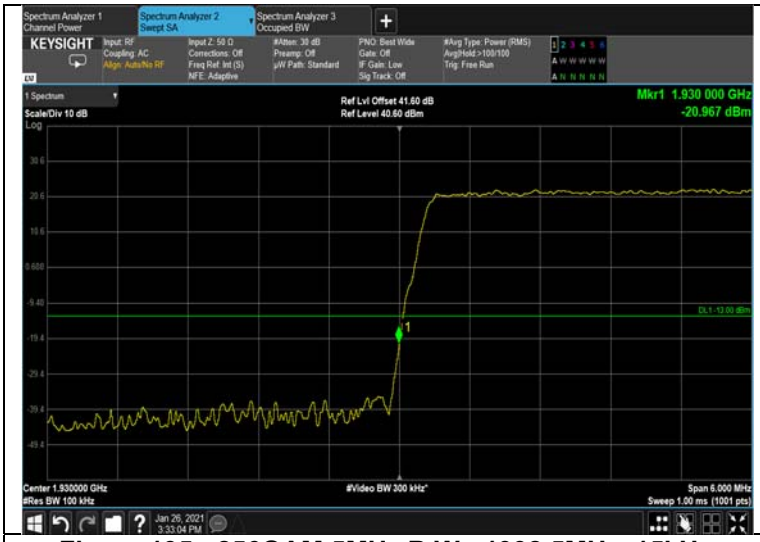


**Figure 135: 256QAM 5MHz B.W.; 1932.5MHz, 15kHz Lower Edge**

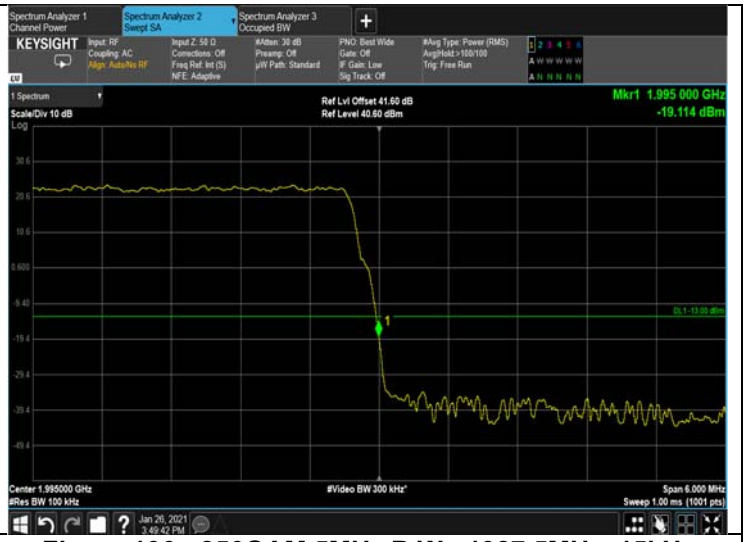


**Figure 136: 256QAM 5MHz B.W.; 1987.5MHz, 15kHz Upper Edge**

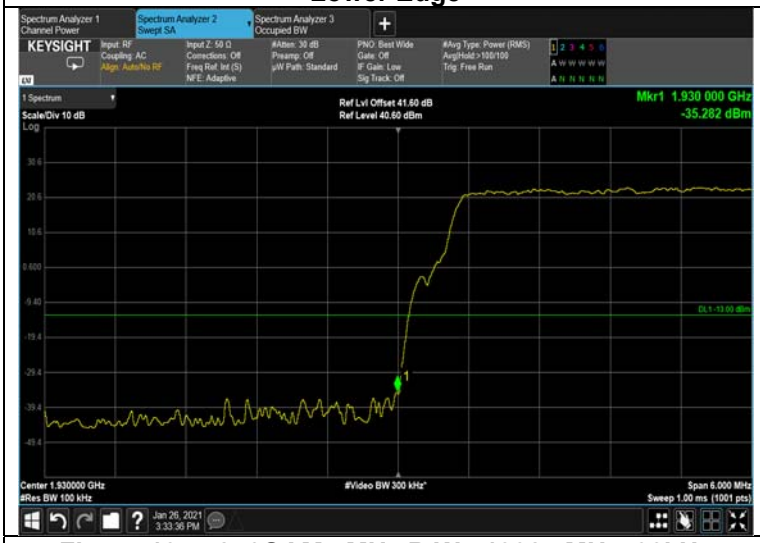


**Figure 137: 256QAM 5MHz B.W.; 1932.5MHz, 30kHz Lower Edge**

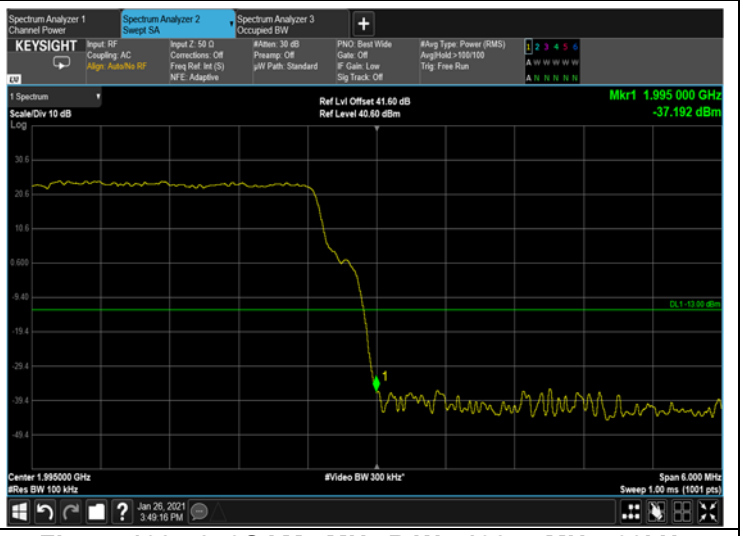


**Figure 138: 256QAM 5MHz B.W.; 1987.5MHz, 30kHz Upper Edge**

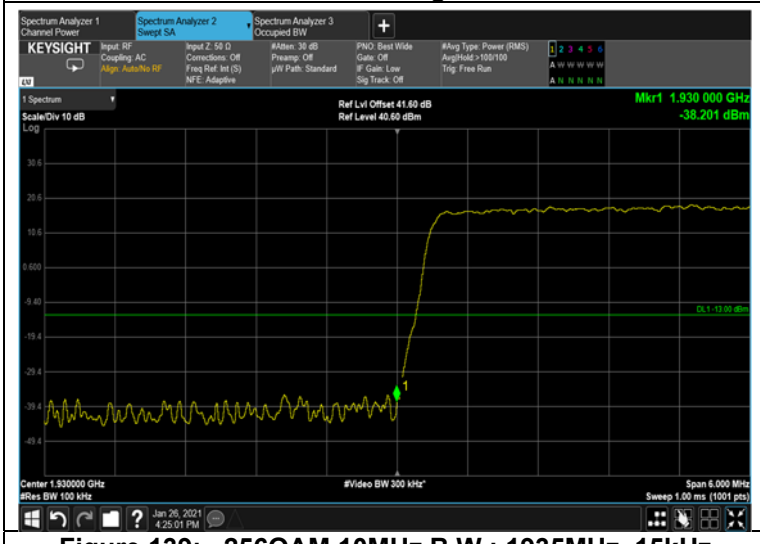


**Figure 139: 256QAM 10MHz B.W.; 1935MHz, 15kHz Lower Edge**

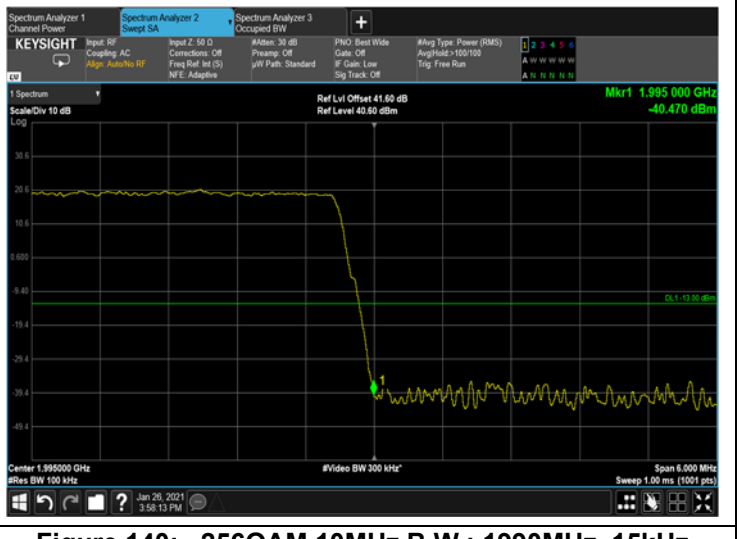


**Figure 140: 256QAM 10MHz B.W.; 1990MHz, 15kHz Upper Edge**

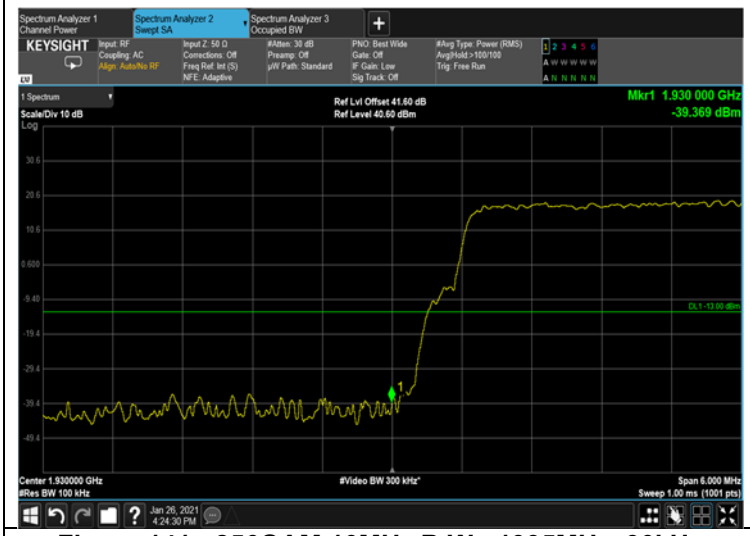


**Figure 141: 256QAM 10MHz B.W.; 1935MHz, 30kHz Lower Edge**

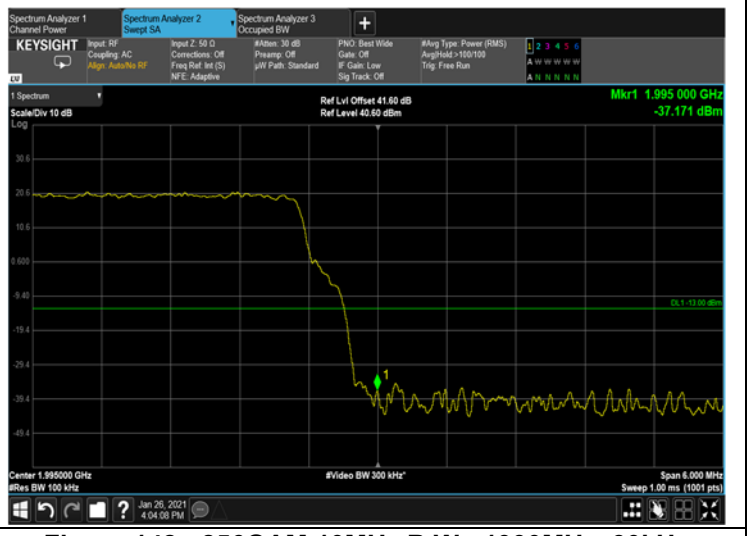


**Figure 142: 256QAM 10MHz B.W.; 1990MHz, 30kHz Upper Edge**

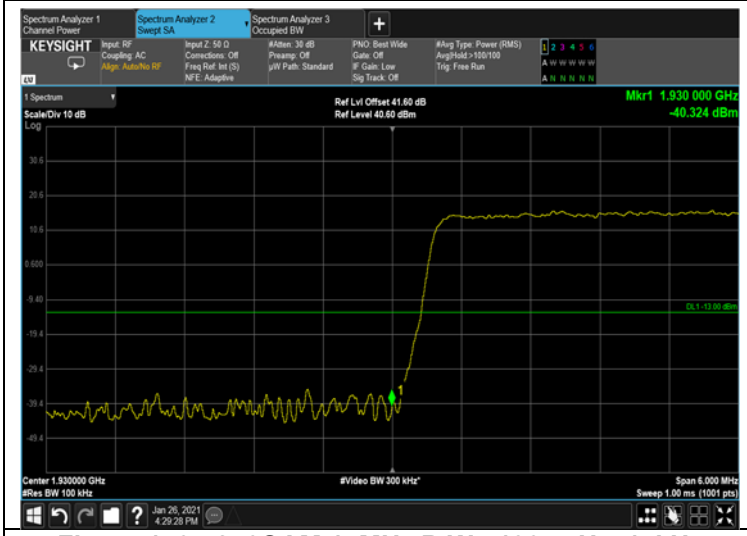


**Figure 143: 256QAM 15MHz B.W.; 1937.5Hz, 15kHz Lower Edge**

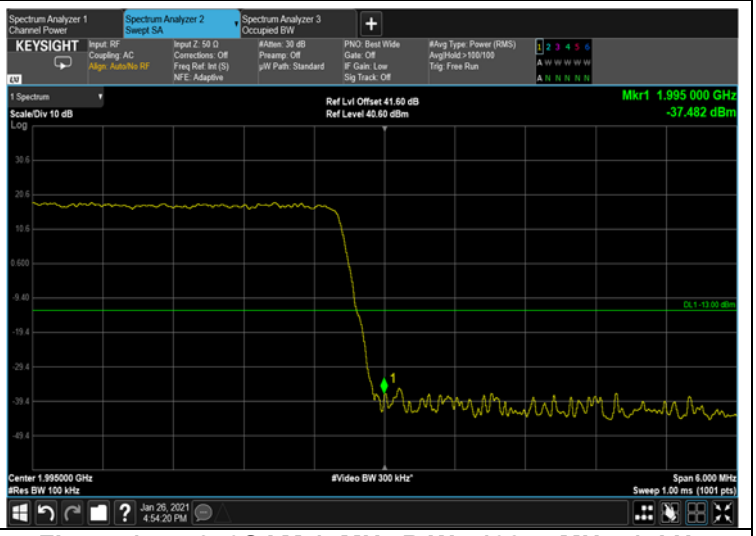


**Figure 144: 256QAM 15MHz B.W.; 1987.5MHz, 15kHz Upper Edge**

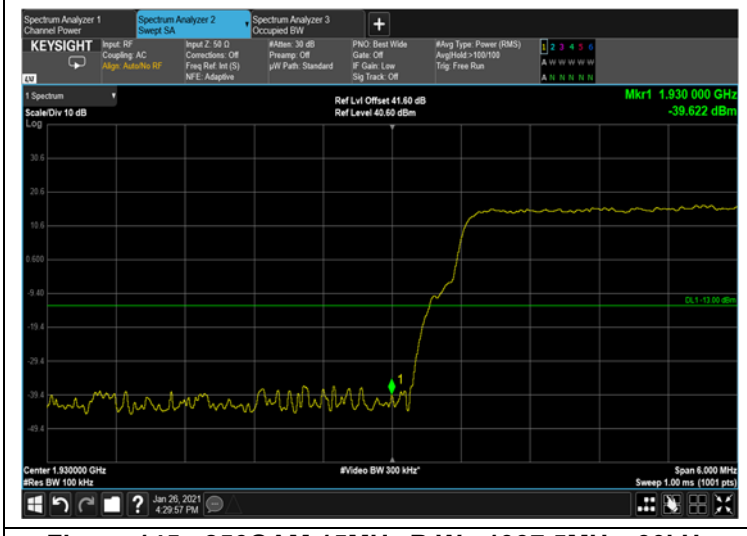


**Figure 145: 256QAM 15MHz B.W.; 1937.5MHz, 30kHz Lower Edge**

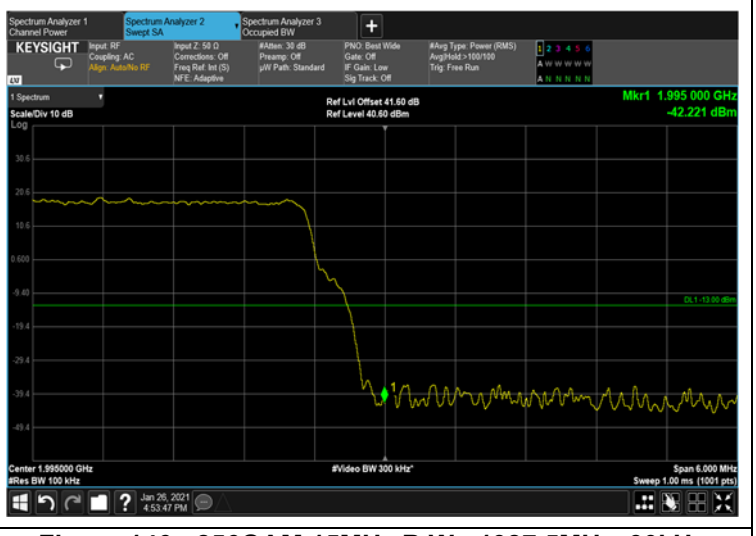


**Figure 146: 256QAM 15MHz B.W.; 1987.5MHz, 30kHz Upper Edge**

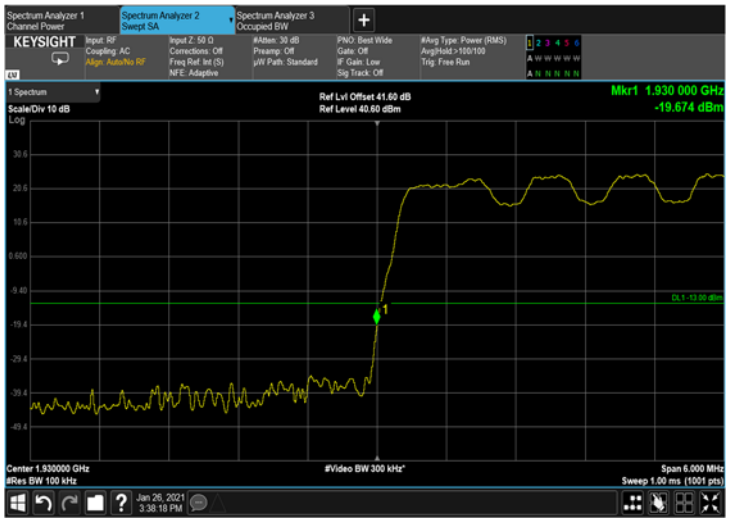


**Figure 147: QPSK 5MHz B.W.; 1932.5MHz, 15kHz Lower Edge**

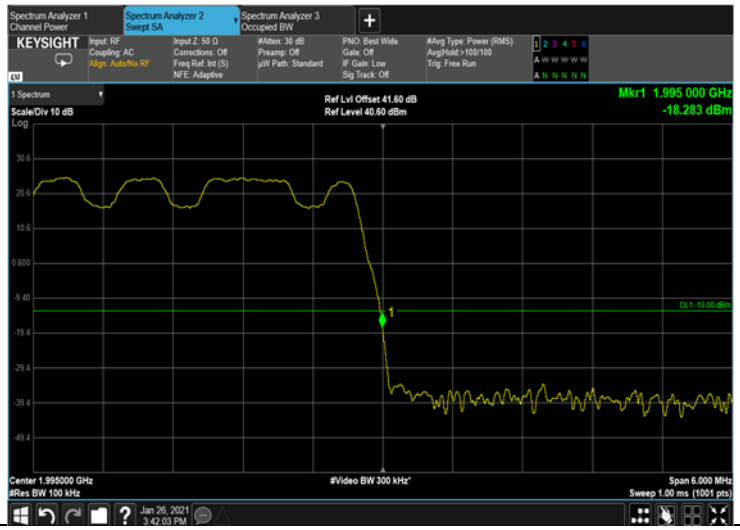


**Figure 148: QPSK 5MHz B.W.; 1992.5MHz, 15kHz Upper Edge**

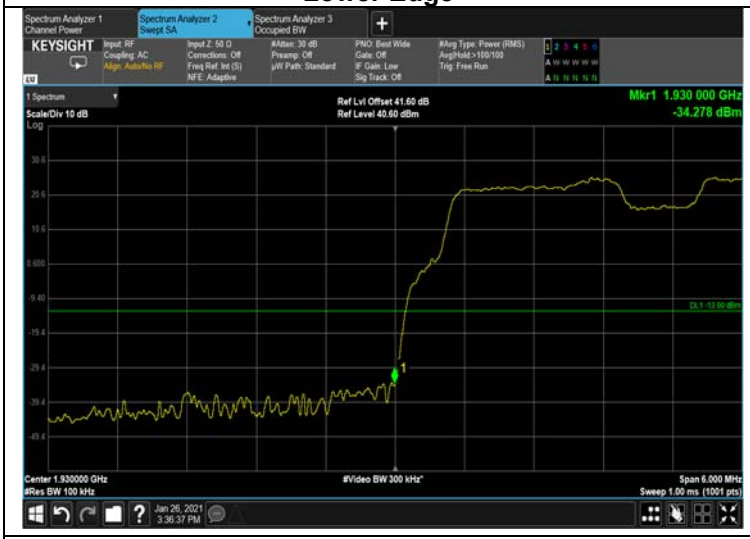


**Figure 149: QPSK 5MHz B.W.; 1932.5MHz, 30kHz Lower Edge**

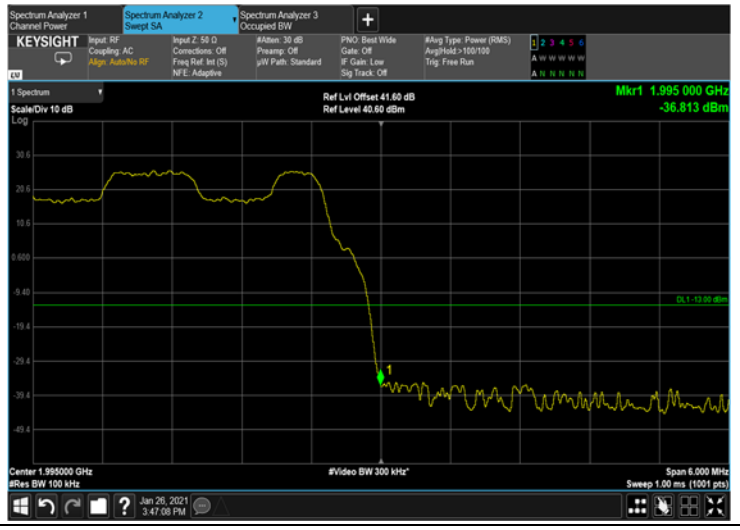


**Figure 150: QPSK 5MHz B.W.; 1992.5MHz, 30kHz Upper Edge**

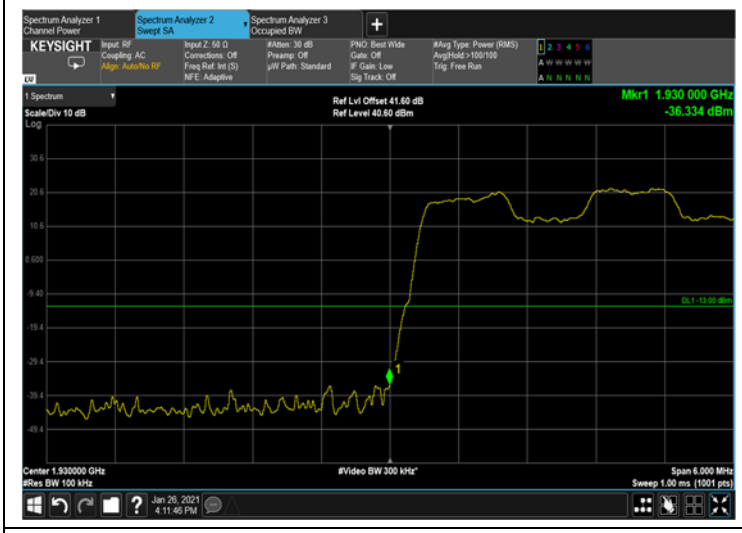


**Figure 151: QPSK 10MHz B.W.; 1935MHz, 15kHz Lower Edge**

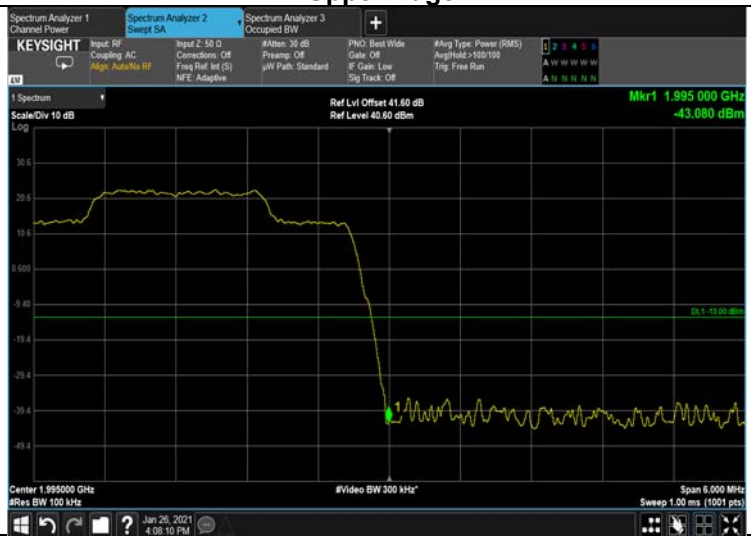


**Figure 152: QPSK 10MHz B.W.; 1990MHz, 15kHz Upper Edge**

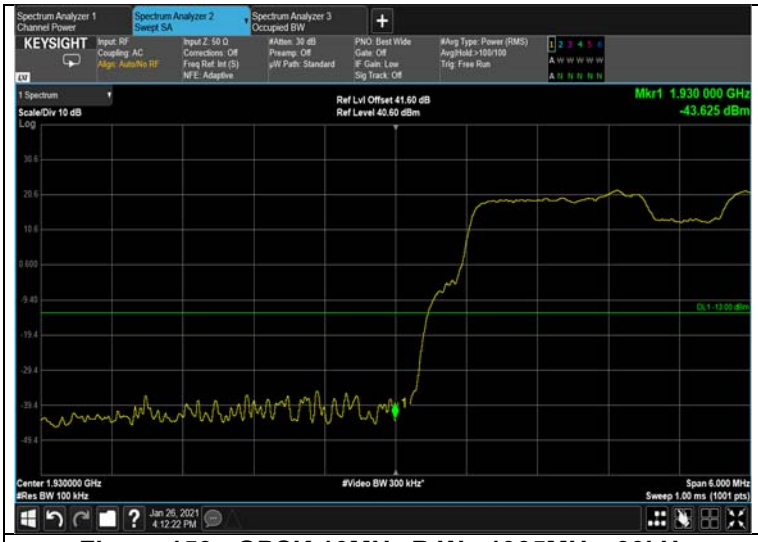


**Figure 153: QPSK 10MHz B.W.; 1935MHz, 30kHz Lower Edge**

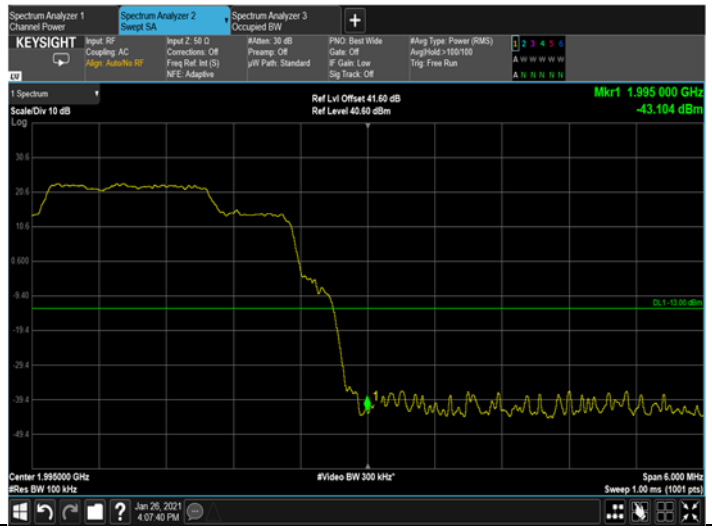


**Figure 154: QPSK 10MHz B.W.; 1990MHz, 30kHz Upper Edge**

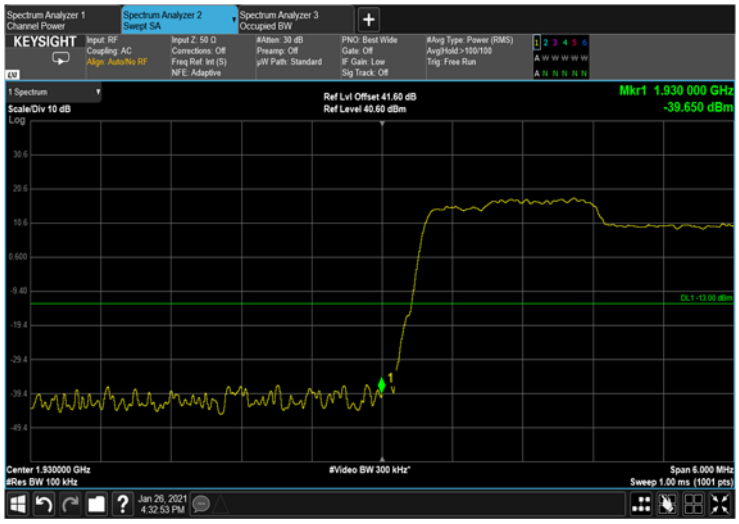


**Figure 155: QPSK 15MHz B.W.; 1937.5MHz, 15kHz Lower Edge**

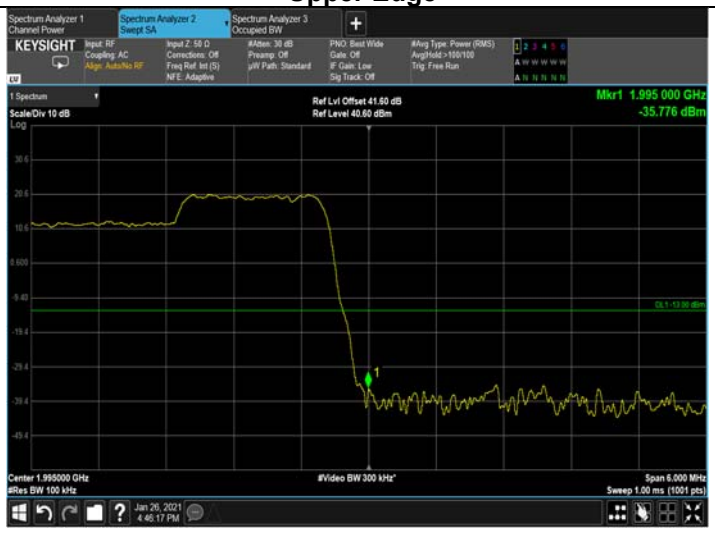


**Figure 156: QPSK 15MHz B.W.; 1987.5MHz, 15kHz Upper Edge**

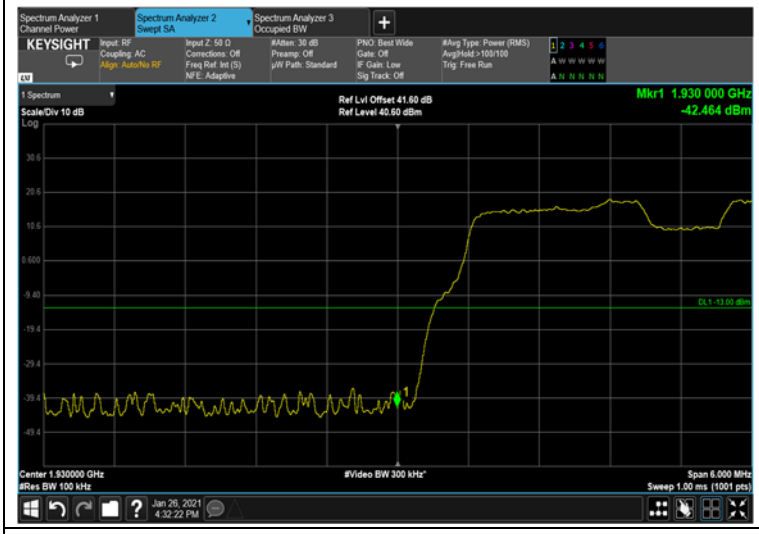


**Figure 157: QPSK 15MHz B.W.; 1937.5MHz, 30kHz Lower Edge**

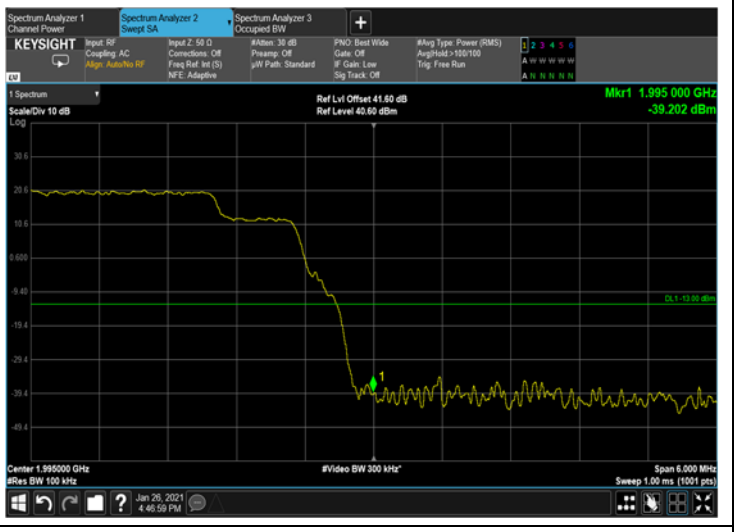


**Figure 158: QPSK 15MHz B.W.; 1987.5MHz, 30kHz Upper Edge**

### 6.5 Test Equipment Used; Band Edge Spectrum

| Instrument | Manufacturer | Model | Serial Number | Calibration | |
|---|---|---|---|---|---|
| | | | | Last Calibration Date | Next Calibration Due |
| EXA signal Analyzer | Keysight | UXA N9040B | MY56080119 | January 31, 2020 | January 31, 2022 |
| EXG Vector Signal Generator | Agilent Technologies | N5172B | MY53051952 | January 17, 2019 | January 17, 2022 |
| 40 dB Attenuator | Weinschel Associates | WA 39-40-33 | - | November 1, 2020 | November 1, 2021 |
| RF Coaxial Cable | Huber-Suner | SLLS210B | - | November 1, 2020 | November 1, 2021 |

**Table 15 Test Equipment Used**

# 7 Band Edge Spectrum – 3G and 4G

## 7.1 Test Specification

FCC Part 24, Subpart E (24.238(a))

## 7.2 Test Procedure

(Temperature (22°C)/ Humidity (35%RH))
The E.U.T. antenna terminal was connected to the spectrum analyzer through an external attenuator and an appropriate coaxial cable (41.1 dB).resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter was employed

## 7.3 Test Limit

The power of any emission outside of the authorized operating frequency ranges (1930- 1995 MHz) must be attenuated below the transmitting power (P) by a factor of at least 43 + log (P) dB, yielding –13dBm.

## 7.4 Test Results

JUDGEMENT: Passed

See additional information in Table 16 to Table 19 and Figure 159 to Figure 178.

| Modulation | Bandwidth | Band Edge Frequency | Reading | Limit |
|---|---|---|---|---|
| | (MHz) | (MHz) | (dBm) | (dBm) |
| WCDMA | 5 | 1932.5 | -31.994 | -13.0 |
| | | 1992.5 | -26.523 | -13.0 |

**Table 16 Band Edge Spectrum Results WCDMA – 3G**

| Modulation | Bandwidth | Band Edge Frequency | Reading | Limit |
|---|---|---|---|---|
| | (MHz) | (MHz) | (dBm) | (dBm) |
| 16QAM | 5 | 1932.5 | -35.409 | -13.0 |
| | | 1992.5 | -27.110 | -13.0 |
| | 10 | 1935.0 | -37.931 | -13.0 |
| | | 1990.0 | -37.621 | -13.0 |
| | 15 | 1937.5 | -35.819 | -13.0 |
| | | 1987.5 | -34.082 | -13.0 |

**Table 17 Band Edge Spectrum Results 16QAM – 4G**

| Modulation | Bandwidth | Band Edge Frequency | Reading | Limit |
|---|---|---|---|---|
| | (MHz) | (MHz) | (dBm) | (dBm) |
| 64QAM | 5 | 1932.5 | -34.572 | -13.0 |
| | | 1992.5 | -32.190 | -13.0 |
| | 10 | 1935.0 | -37.312 | -13.0 |
| | | 1990.0 | -37.368 | -13.0 |
| | 15 | 1937.5 | -35.794 | -13.0 |
| | | 1987.5 | -34.175 | -13.0 |

**Table 18 Band Edge Spectrum Results 64QAM – 4G**

| Modulation | Bandwidth | Band Edge Frequency | Reading | Limit |
|---|---|---|---|---|
| | (MHz) | (MHz) | (dBm) | (dBm) |
| QPSK | 5 | 1932.5 | -31.534 | -13.0 |
| | | 1992.5 | -31.970 | -13.0 |
| | 10 | 1935.0 | -36.999 | -13.0 |
| | | 1990.0 | -37.317 | -13.0 |
| | 15 | 1937.5 | -36.580 | -13.0 |
| | | 1987.5 | -35.938 | -13.0 |

**Table 19 Band Edge Spectrum Results QPSK – 4G**

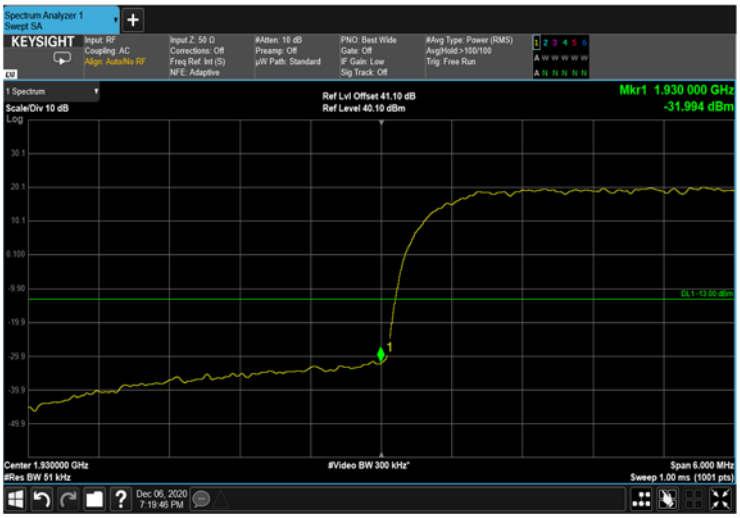


**Figure 159: WCDMA 5MHz B.W.; 1932.5MHz Lower Edge – 3G**

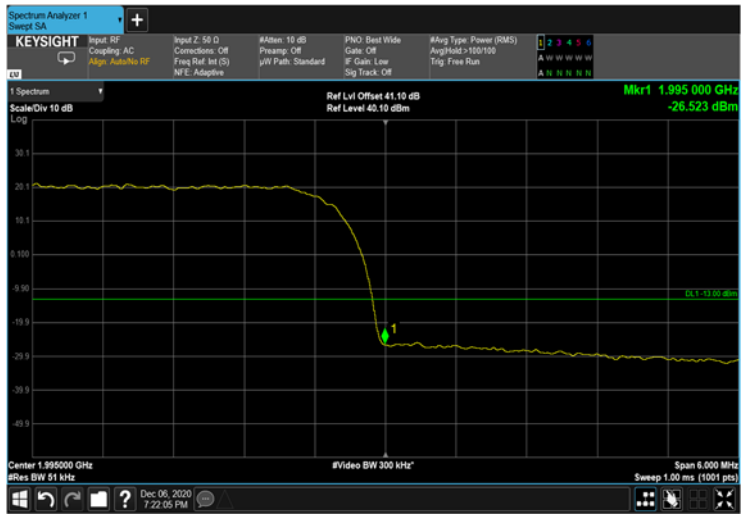


**Figure 160: WCDMA 5MHz B.W.; 1992.5MHz Upper Edge- 3G**

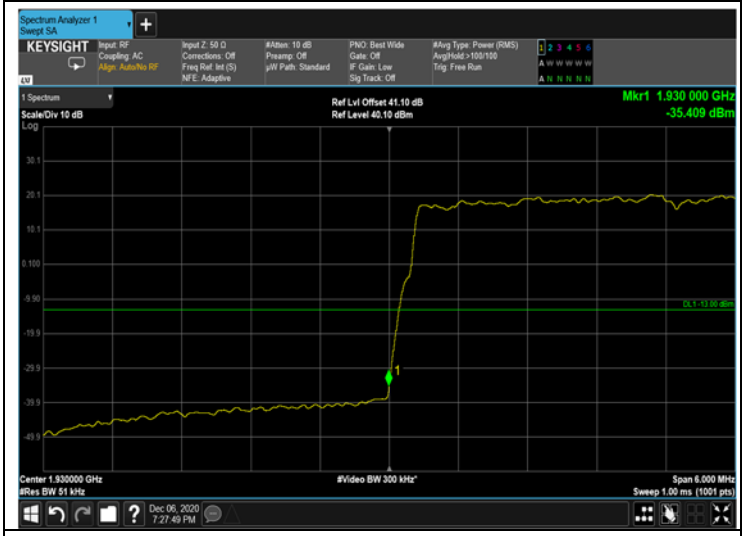


**Figure 161: 16QAM 5MHz B.W.; 1932.5MHz Lower Edge – 4G**


**Figure 162: 16QAM 5MHz B.W.; 1987.5MHz Upper Edge – 4G**


**Figure 163: 16QAM 10MHz B.W.; 1935MHz Lower Edge – 4G**

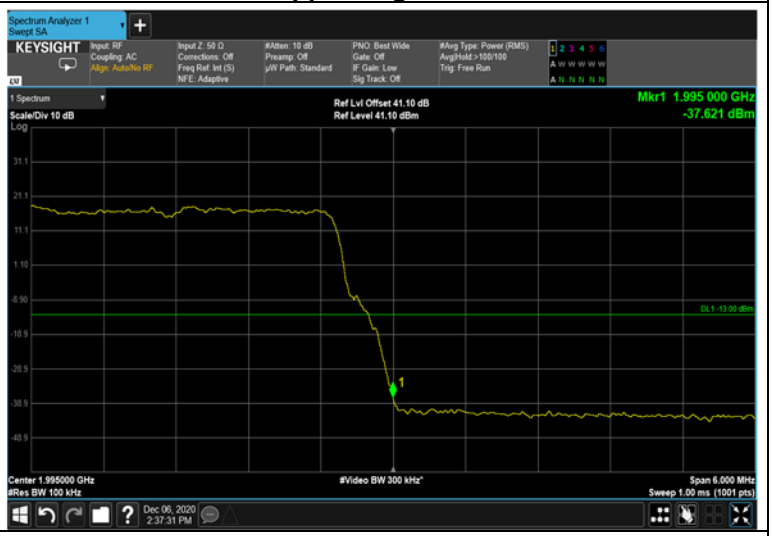


**Figure 164: 16QAM 10MHz B.W.; 1990MHz Upper Edge – 4G**

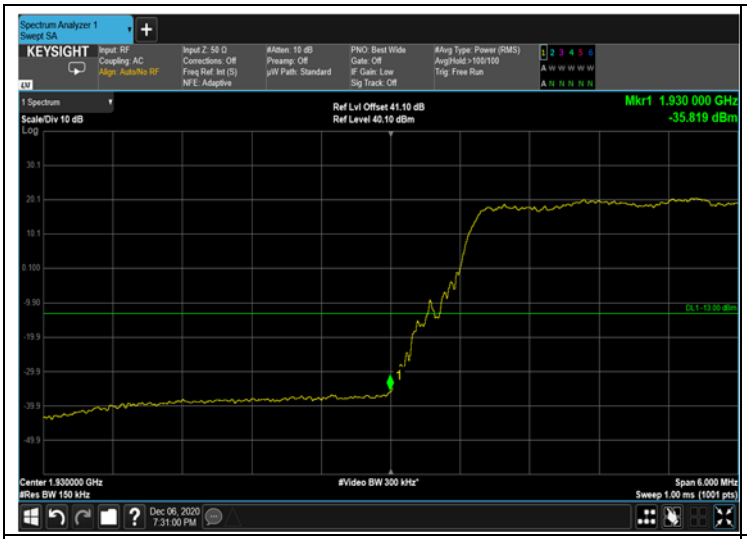


**Figure 165: 16QAM 15MHz B.W.; 1937.5MHz Lower Edge – 4G**

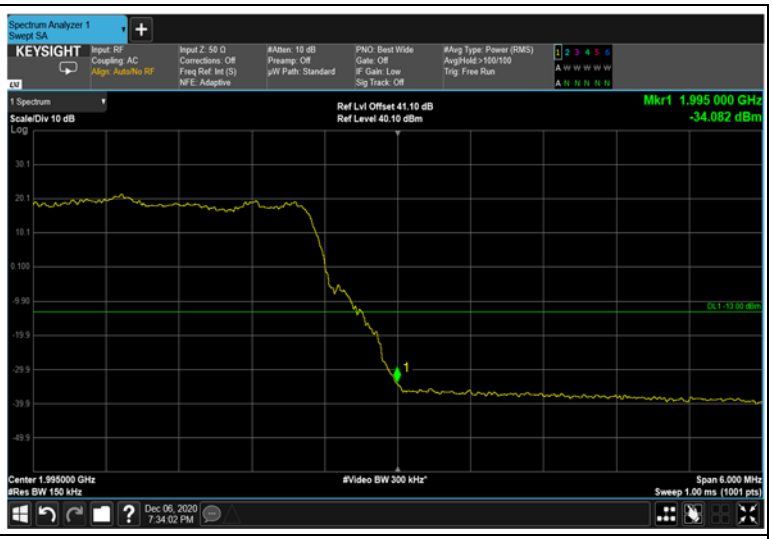


**Figure 166: 16QAM 15MHz B.W.; 1987.5MHz Upper Edge – 4G**

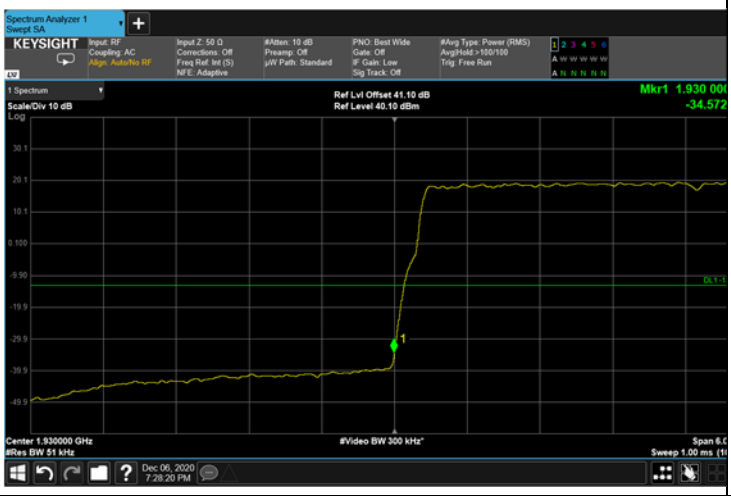


**Figure 167: 64QAM 5MHz B.W.; 1932.5MHz Lower Edge – 4G**

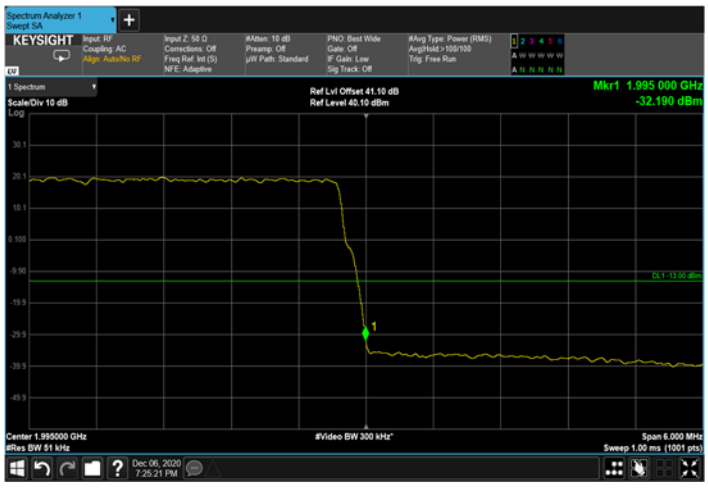


**Figure 168: 64QAM 5MHz B.W.; 1987.5MHz Upper Edge – 4G**

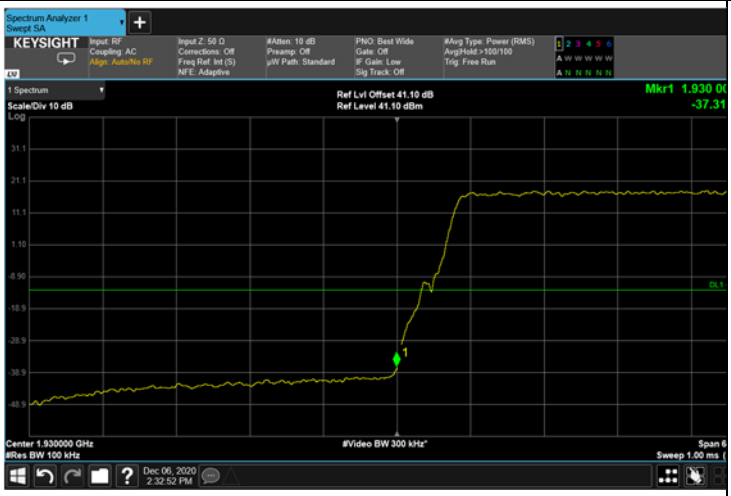


**Figure 169: 64QAM 10MHz B.W.; 1935MHz Lower Edge – 4G**

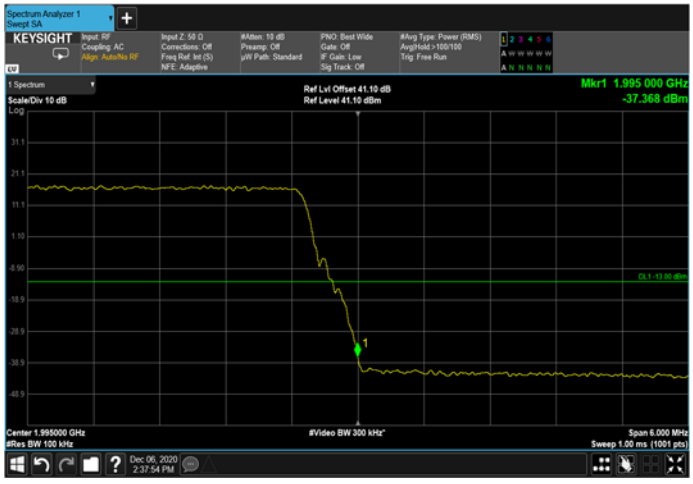


**Figure 170: 64QAM 10MHz B.W.; 1990MHz Upper Edge – 4G**

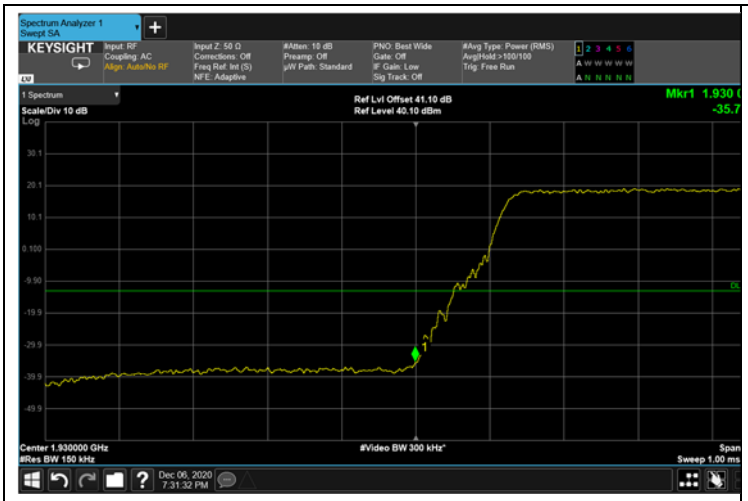


**Figure 171: 64QAM 15MHz B.W.; 1937.5MHz Lower Edge – 4G**

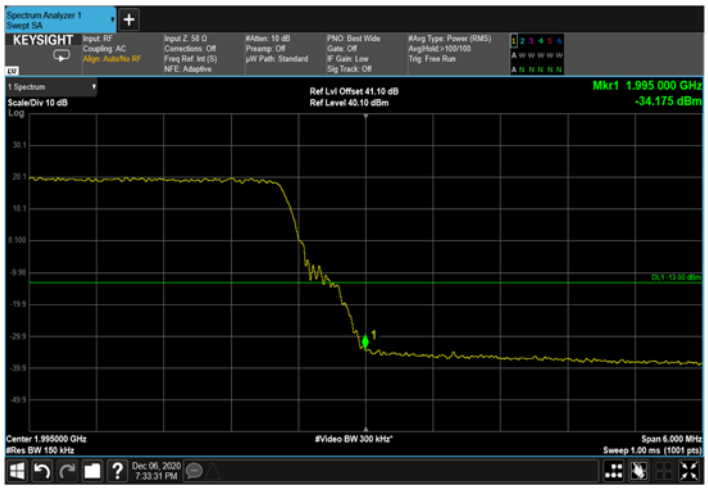


**Figure 172: 64QAM 15MHz B.W.; 1987.5MHz Upper Edge – 4G**

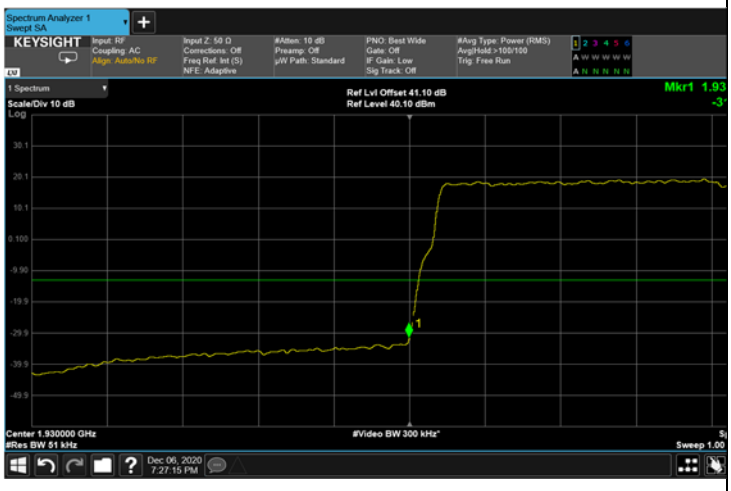


**Figure 173: QPSK 5MHz B.W.; 1932.5MHz Lower Edge – 4G**

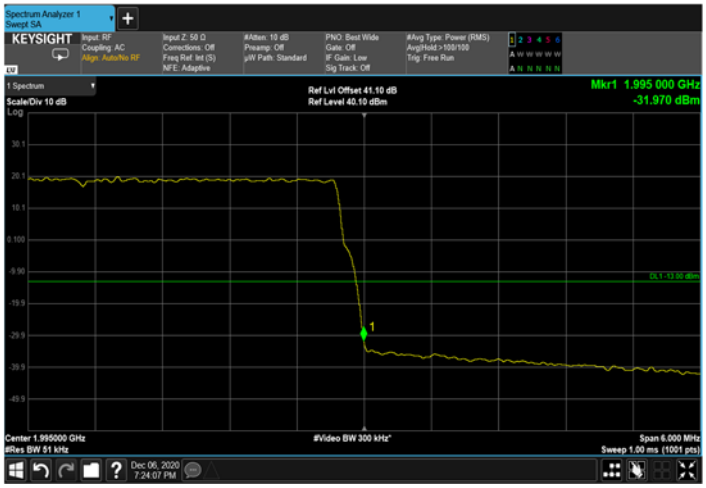


**Figure 174: QPSK 5MHz B.W.; 1987.5MHz Upper Edge – 4G**

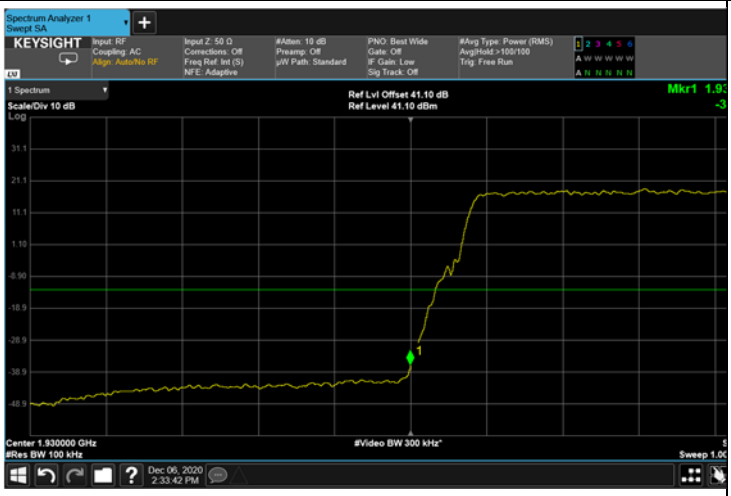


**Figure 175: QPSK 10MHz B.W.; 1935MHz Lower Edge – 4G**

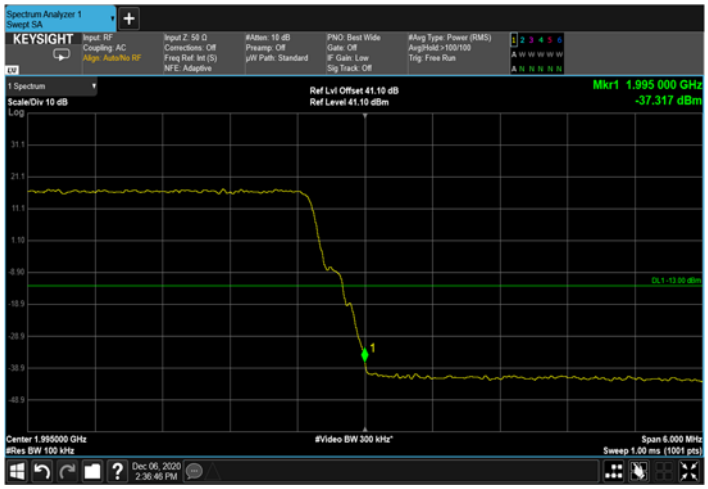


**Figure 176: QPSK 10MHz B.W.; 1990MHz Upper Edge – 4G**

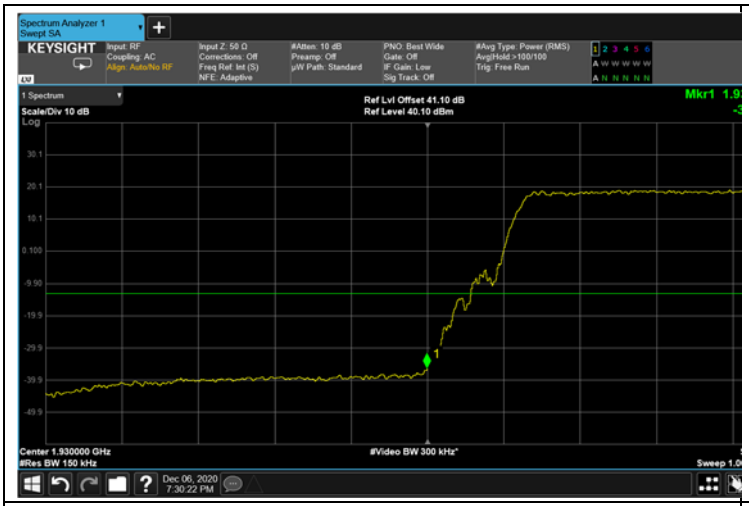


**Figure 177: QPSK 15MHz B.W.; 1937.5MHz Lower Edge – 4G**

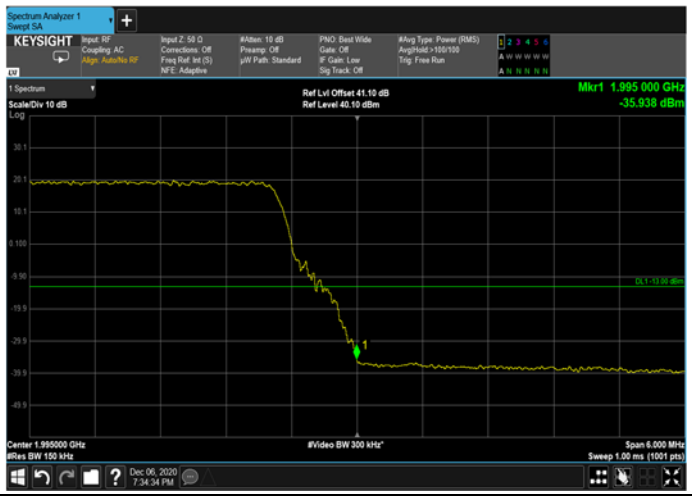


**Figure 178: QPSK 15MHz B.W.; 1987.5MHz Upper Edge – 4G**

## *7.5 Test Equipment Used; Band Edge Spectrum*

| Instrument | Manufacturer | Model | Serial Number | Calibration | |
|---|---|---|---|---|---|
| | | | | Last Calibration Date | Next Calibration Due |
| EXA signal Analyzer | Keysight | UXA N9040B | MY56080119 | January 31, 2020 | January 31, 2022 |
| EXG Vector Signal Generator | Agilent Technologies | N5172B | MY53051952 | January 17, 2019 | January 17, 2022 |
| 40 dB Attenuator | Weinschel Associates | WA 39-40-33 | - | November 1, 2020 | November 1, 2021 |
| RF Coaxial Cable | Huber-Suner | SLLS210B | - | November 1, 2020 | November 1, 2021 |

**Table 20 Test Equipment Used**

# 8 Occupied Bandwidth - 5G

## 8.1 Test Specification

FCC Part 2, Section 1049

## 8.2 Test Procedure

(Temperature (22°C)/ Humidity (35%RH))
The E.U.T. antenna terminal was connected to the spectrum analyzer through an external attenuator and an appropriate coaxial cable (loss=41.1 dB). The spectrum analyzer was set to proper RBW
OBW function (99%) was employed for this evaluation.
Occupied bandwidth measured was repeated in the input terminal of the E.U.T.

## 8.3 Test Limit

N/A

## 8.4 Test Results

JUDGEMENT: Passed

See additional information in Table 21 to Table 28 and Figure 179 to Figure 322.

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading |
|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (MHz) |
| 16QAM | 5 | 15 | 1932.5 | 4.5300 |
| | | 30 | | 4.0624 |
| | | 15 | 1962.5 | 4.5309 |
| | | 30 | | 4.0618 |
| | | 15 | 1992.5 | 4.5184 |
| | | 30 | | 4.0650 |
| | 10 | 15 | 1935.0 | 9.2490 |
| | | 30 | | 8.6004 |
| | | 15 | 1962.5 | 9.2516 |
| | | 30 | | 8.6075 |
| | | 15 | 1990.0 | 9.2529 |
| | | 30 | | 8.6003 |
| | 15 | 15 | 1937.5 | 14.174 |
| | | 30 | | 13.551 |
| | | 15 | 1962.5 | 14.178 |
| | | 30 | | 13.553 |
| | | 15 | 1987.5 | 14.177 |
| | | 30 | | 13.551 |

**Table 21 Occupied Bandwidth 16 QAM Input**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading |
|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (MHz) |
| 64QAM | 5 | 15 | 1932.5 | 4.4927 |
| | | 30 | | 4.0006 |
| | | 15 | 1962.5 | 4.4934 |
| | | 30 | | 3.9989 |
| | | 15 | 1992.5 | 4.4946 |
| | | 30 | | 3.9965 |
| | 10 | 15 | 1935.0 | 9.3336 |
| | | 30 | | 8.6410 |
| | | 15 | 1962.5 | 9.3372 |
| | | 30 | | 8.6376 |
| | | 15 | 1990.0. | 9.3361 |
| | | 30 | | 8.6393 |
| | 15 | 15 | 1937.5 | 14.147 |
| | | 30 | | 13.657 |
| | | 15 | 1962.5 | 14.136 |
| | | 30 | | 13.651 |
| | | 15 | 1987.5 | 14.150 |
| | | 30 | | 13.657 |

**Table 22 Occupied Bandwidth 64QAM Input**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading |
|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (MHz) |
| 256QAM | 5 | 15 | 1932.5 | 4.4894 |
| | | 30 | | 4.0225 |
| | | 15 | 1962.5 | 4.4911 |
| | | 30 | | 4.0218 |
| | | 15 | 1992.5 | 4.4900 |
| | | 30 | | 4.0175 |
| | 10 | 15 | 1935.0 | 9.3140 |
| | | 30 | | 8.6270 |
| | | 15 | 1962.5 | 9.3141 |
| | | 30 | | 8.6412 |
| | | 15 | 1990.0 | 9.3193 |
| | | 30 | | 8.6506 |
| | 15 | 15 | 1937.5 | 14.133 |
| | | 30 | | 13.589 |
| | | 15 | 1962.5 | 14.150 |
| | | 30 | | 13.605 |
| | | 15 | 1987.5 | 14.141 |
| | | 30 | | 13.600 |

**Table 23 Occupied Bandwidth 256QAM Input**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading |
|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (MHz) |
| QPSK | 5 | 15 | 1932.5 | 4.5222 |
| | | 30 | | 4.1149 |
| | | 15 | 1962.5 | 4.5166 |
| | | 30 | | 4.1120 |
| | | 15 | 1992.5 | 4.5215 |
| | | 30 | | 4.1145 |
| | 10 | 15 | 1935.0 | 9.1672 |
| | | 30 | | 8.5245 |
| | | 15 | 1962.5 | 9.1621 |
| | | 30 | | 8.5273 |
| | | 15 | 1990.0 | 9.1635 |
| | | 30 | | 8.5157 |
| | 15 | 15 | 1937.5 | 14.188 |
| | | 30 | | 13.383 |
| | | 15 | 1962.5 | 14.186 |
| | | 30 | | 13.400 |
| | | 15 | 1987.5 | 14.187 |
| | | 30 | | 13.392 |

**Table 24 Occupied Bandwidth QPSK Input**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading |
|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (MHz) |
| 16QAM | 5 | 15 | 1932.5 | 4.5180 |
| | | 30 | | 4.0528 |
| | | 15 | 1962.5 | 4.5271 |
| | | 30 | | 4.0532 |
| | | 15 | 1992.5 | 4.5219 |
| | | 30 | | 4.0617 |
| | 10 | 15 | 1935.0 | 9.2188 |
| | | 30 | | 8.5905 |
| | | 15 | 1962.5 | 9.2395 |
| | | 30 | | 8.6007 |
| | | 15 | 1990.0 | 9.2263 |
| | | 30 | | 8.5946 |
| | 15 | 15 | 1937.5 | 14.147 |
| | | 30 | | 13.513 |
| | | 15 | 1962.5 | 14.173 |
| | | 30 | | 13.537 |
| | | 15 | 1987.5 | 14.164 |
| | | 30 | | 13.531 |

**Table 25 Occupied Bandwidth 16QAM Output**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading |
|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (MHz) |
| 64QAM | 5 | 15 | 1932.5 | 4.4887 |
| | | 30 | | 3.9929 |
| | | 15 | 1962.5 | 4.4901 |
| | | 30 | | 4.0001 |
| | | 15 | 1992.5 | 4.4895 |
| | | 30 | | 3.9998 |
| | 10 | 15 | 1935.0. | 9.3164 |
| | | 30 | | 8.6179 |
| | | 15 | 1962.5 | 9.3328 |
| | | 30 | | 8.6358 |
| | | 15 | 1990.0 | 9.3278 |
| | | 30 | | 8.6382 |
| | 15 | 15 | 1937.5 | 14.090 |
| | | 30 | | 13.603 |
| | | 15 | 1962.5 | 14.139 |
| | | 30 | | 13.640 |
| | | 15 | 1987.5 | 14.136 |
| | | 30 | | 13.645 |

**Table 26 Occupied Bandwidth 64QAM Output**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading |
|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (MHz) |
| 256QAM | 5 | 15 | 1932.5 | 4.4871 |
| | | 30 | | 4.0102 |
| | | 15 | 1962.5 | 4.4900 |
| | | 30 | | 4.0226 |
| | | 15 | 1992.5 | 4.4872 |
| | | 30 | | 4.0231 |
| | 10 | 15 | 1935.0 | 9.2842 |
| | | 30 | | 8.6112 |
| | | 15 | 1962.5 | 9.3117 |
| | | 30 | | 8.6455 |
| | | 15 | 1990.0 | 9.2963 |
| | | 30 | | 8.6380 |
| | 15 | 15 | 1937.5 | 14.105 |
| | | 30 | | 13.555 |
| | | 15 | 1962.5 | 14.105 |
| | | 30 | | 13.583 |
| | | 15 | 1987.5 | 14.114 |
| | | 30 | | 13.576 |

**Table 27 Occupied Bandwidth 256QAM Output**

| Modulation | Bandwidth | Sub Carrier | Operation Frequency | Reading |
|---|---|---|---|---|
| | (MHz) | (kHz) | (MHz) | (MHz) |
| QPSK | 5 | 15 | 1932.5 | 4.5120 |
| | | 30 | | 4.1075 |
| | | 15 | 1962.5 | 4.5139 |
| | | 30 | | 4.1204 |
| | | 15 | 1992.5 | 4.5161 |
| | | 30 | | 4.1133 |
| | 10 | 15 | 1935.0 | 9.1565 |
| | | 30 | | 8.5236 |
| | | 15 | 1962.5 | 9.1490 |
| | | 30 | | 8.5214 |
| | | 15 | 1990.0 | 9.1484 |
| | | 30 | | 8.5078 |
| | 15 | 15 | 1937.5 | 14.139 |
| | | 30 | | 13.374 |
| | | 15 | 1962.5 | 14.183 |
| | | 30 | | 13.362 |
| | | 15 | 1987.5 | 14.179 |
| | | 30 | | 13.352 |

**Table 28 Occupied Bandwidth QPSK Output**

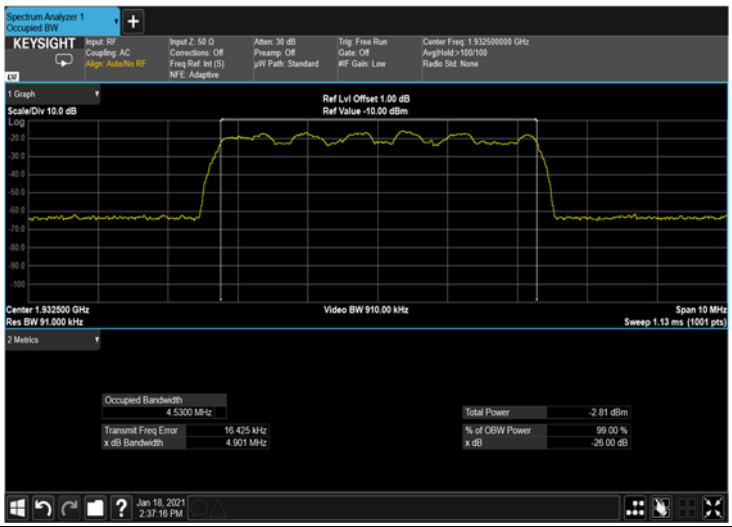


Figure 179: 16QAM 5MHz B.W.; 1932.5MHz, 15kHz Input


Figure 180: 16QAM 5MHz B.W.; 1932.5MHz, 30kHz Input

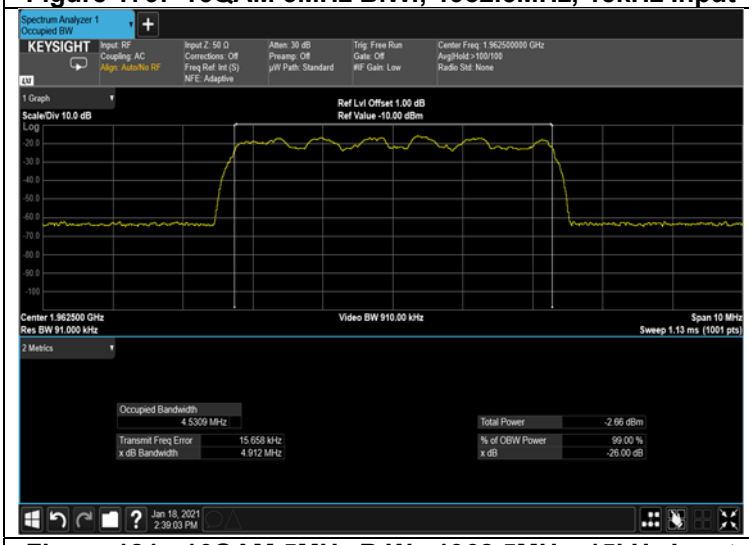


Figure 181: 16QAM 5MHz B.W.; 1962.5MHz, 15kHz Input

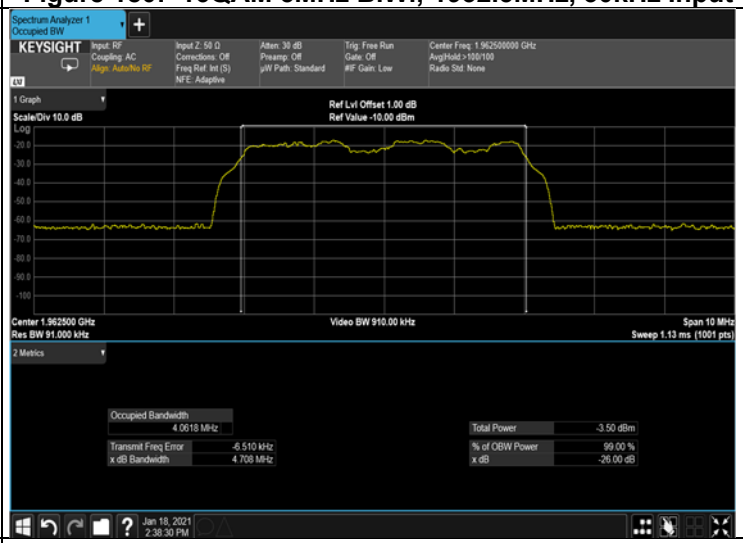


Figure 182: 16QAM 5MHz B.W.; 1962.5MHz, 30kHz Input

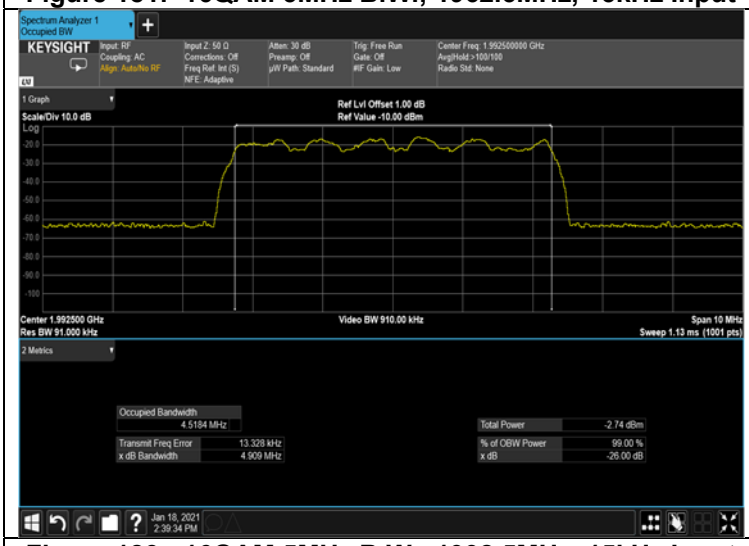


Figure 183: 16QAM 5MHz B.W.; 1992.5MHz, 15kHz Input

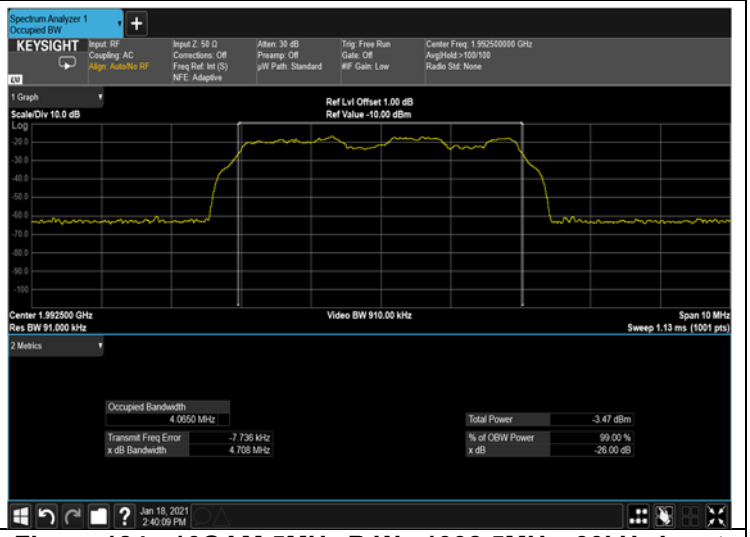


Figure 184: 16QAM 5MHz B.W.; 1992.5MHz, 30kHz Input


**Figure 185: 16QAM 10MHz B.W.; 1935.0MHz, 15kHz Input**


**Figure 186: 16QAM 10MHz B.W.; 1935.0MHz, 30kHz Input**

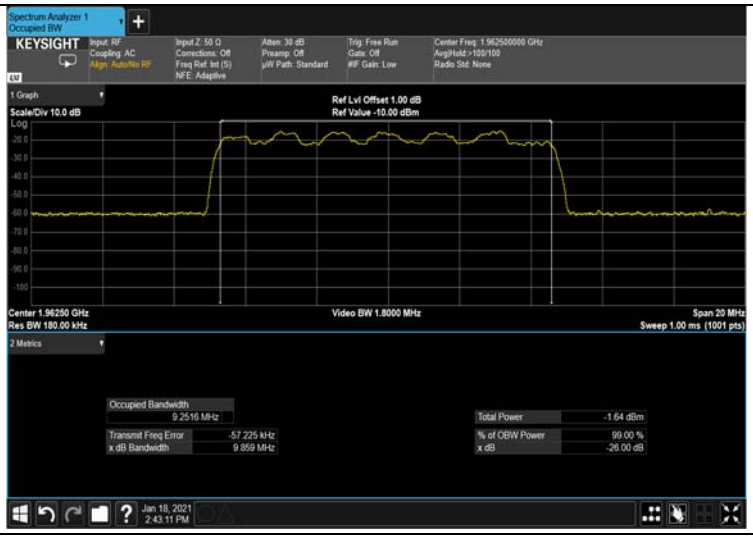


**Figure 187: 16QAM 10MHz B.W.; 1962.5MHz, 15kHz Input**


**Figure 188: 16QAM 10MHz B.W.; 1962.5MHz, 30kHz Input**


**Figure 189: 16QAM 10MHz B.W.; 1990.0MHz, 15kHz Input**


**Figure 190: 16QAM 10MHz B.W.; 1990.0MHz, 30kHz Input**


**Figure 191: 16QAM 15MHz B.W.; 1937.5MHz, 15kHz Input**


**Figure 192: 16QAM 15MHz B.W.; 1937.5MHz, 30kHz Input**

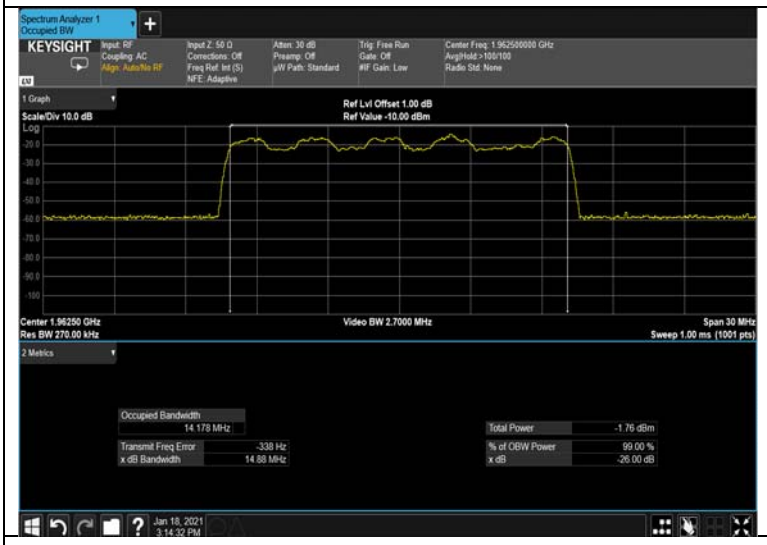


**Figure 193: 16QAM 15MHz B.W.; 1962.5MHz, 15kHz Input**


**Figure 194: 16QAM 15MHz B.W.; 1962.5MHz, 30kHz Input**


**Figure 195: 16QAM 15MHz B.W.; 1987.5MHz, 15kHz Input**


**Figure 196: 16QAM 15MHz B.W.; 1987.5MHz, 30kHz Input**


Figure 197: 64QAM 5MHz B.W.; 1932.5MHz, 15kHz Input


Figure 198: 64QAM 5MHz B.W.; 1932.5MHz, 30kHz Input

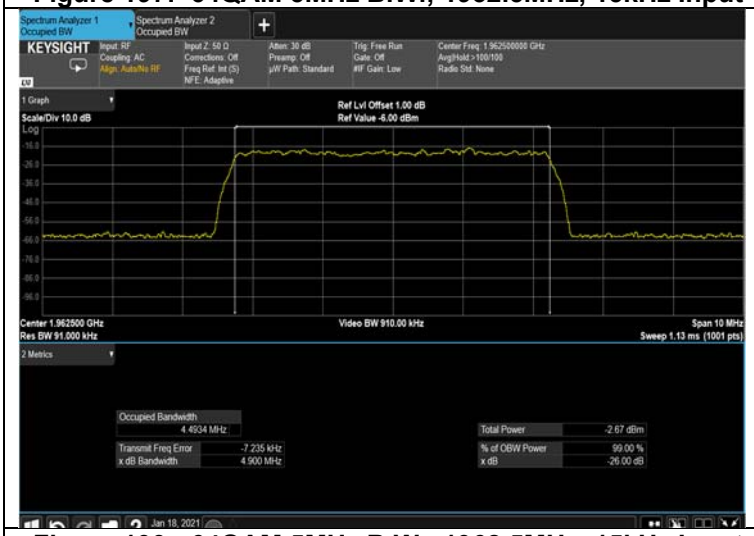


Figure 199: 64QAM 5MHz B.W.; 1962.5MHz, 15kHz Input

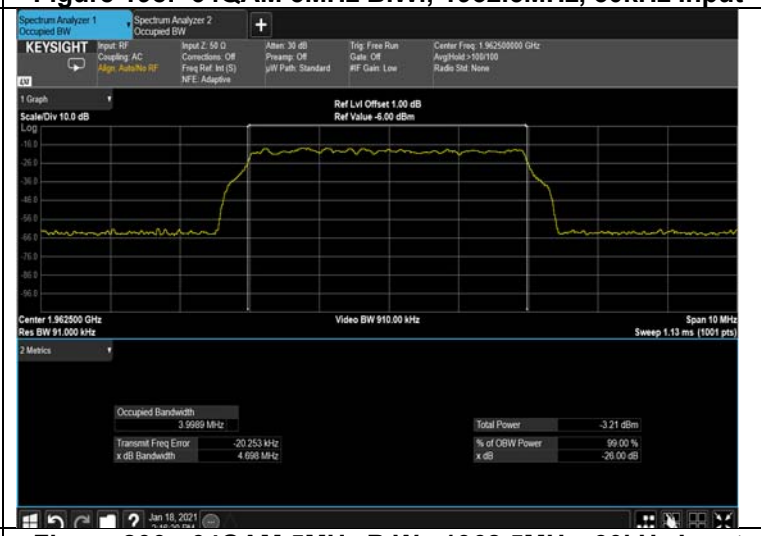


Figure 200: 64QAM 5MHz B.W.; 1962.5MHz, 30kHz Input


Figure 201: 64QAM 5MHz B.W.; 1992.5MHz, 15kHz Input

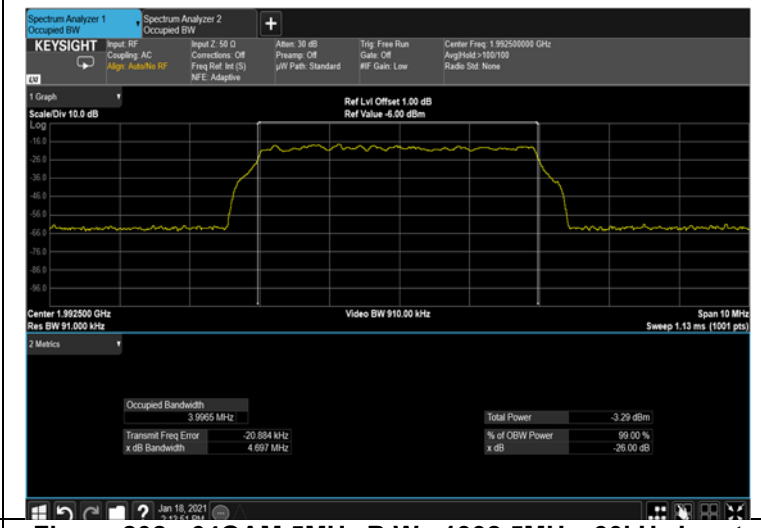


Figure 202: 64QAM 5MHz B.W.; 1992.5MHz, 30kHz Input


Figure 203: 64QAM 10MHz B.W.; 1935.0MHz, 15kHz Input


Figure 204: 64QAM 10MHz B.W.; 1935.0MHz, 30kHz Input


Figure 205: 64QAM 10MHz B.W.; 1962.5MHz, 15kHz Input


Figure 206: 64QAM 10MHz B.W.; 1962.5MHz, 30kHz Input


Figure 207: 64QAM 10MHz B.W.; 1990.0MHz, 15kHz Input


Figure 208: 64QAM 10MHz B.W.; 1990.0MHz, 30kHz Input


Figure 209: 64QAM 15MHz B.W.; 1937.5MHz, 15kHz Input


Figure 210: 64QAM 15MHz B.W.; 1937.5MHz, 30kHz Input


Figure 211: 64QAM 15MHz B.W.; 1962.5MHz, 15kHz Input


Figure 212: 64QAM 15MHz B.W.; 1962.5MHz, 30kHz Input


Figure 213: 64QAM 15MHz B.W.; 1987.5MHz, 30kHz Input


Figure 214: 64QAM 15MHz B.W.; 1987.5MHz, 60kHz Input


Figure 215: 256QAM 5MHz B.W.; 1932.5MHz, 15kHz Input


Figure 216: 256QAM 5MHz B.W.; 1932.5MHz, 30kHz Input


Figure 217: 256QAM 5MHz B.W.; 1962.5MHz, 15kHz Input


Figure 218: 256QAM 5MHz B.W 1962.5MHz, 30kHz Input


Figure 219: 256QAM 5MHz B.W.; 1992.5MHz, 15kHz Input


Figure 220: 256QAM 5MHz B.W.; 1992.5MHz, 30kHz Input


**Figure 221: 256QAM 10MHz B.W.; 1935.0MHz, 15kHz Input**


**Figure 222: 256QAM 10MHz B.W.; 1935.0MHz, 30kHz Input**


**Figure 223: 256QAM 10MHz B.W.;1962.5MHz, 15kHz Input**


**Figure 224: 256QAM 10MHz B.W.; 1962.5MHz, 30kHz Input**


**Figure 225: 256QAM 10MHz B.W.; 1987.5MHz, 15kHz Input**


**Figure 226: 256QAM 10MHz B.W.; 1987.5MHz, 30kHz Input**


**Figure 227: 256QAM 15MHz B.W.; 1937.5MHz, 15kHz Input**

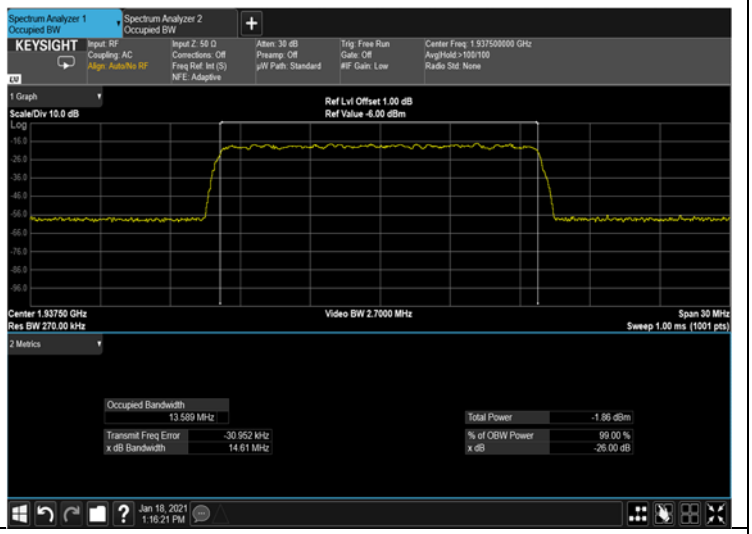


**Figure 228: 256QAM 15MHz B.W.; 1937.5MHz, 30kHz Input**


**Figure 229: 256QAM 15MHz B.W.; 1962.5MHz, 15kHz Input**


**Figure 230: 256QAM 15MHz B.W.; 1962.5MHz, 30kHz Input**


**Figure 231: 256QAM 15MHz B.W.; 1987.5MHz, 15kHz Input**

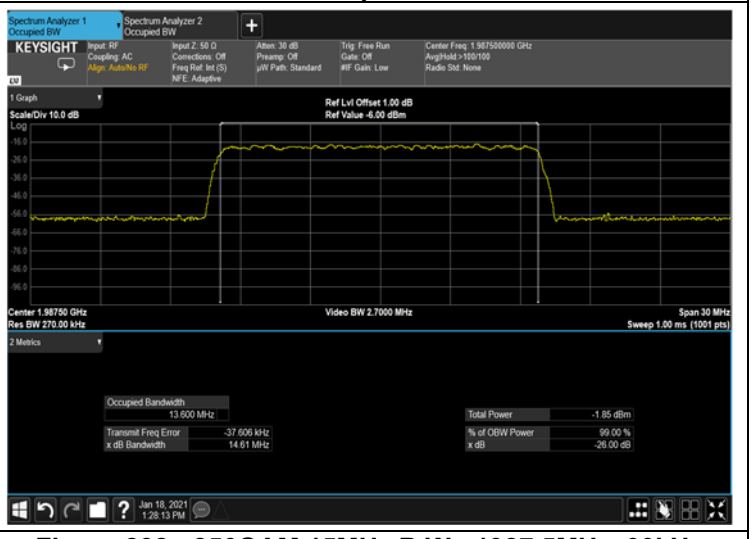


**Figure 232: 256QAM 15MHz B.W.; 1987.5MHz, 30kHz Input**


Figure 233: QPSK 5MHz B.W.; 1932.5MHz, 15kHz Input


Figure 234: QPSK 5MHz B.W.; 1932.5MHz, 30kHz Input

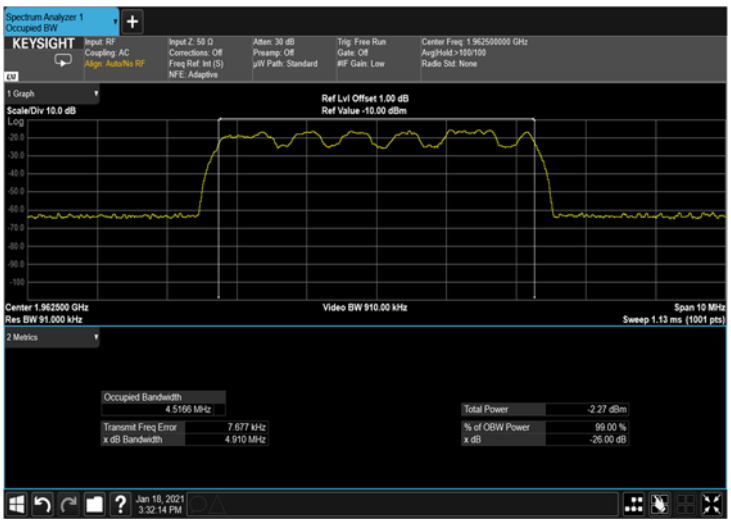


Figure 235: QPSK 5MHz B.W.; 1962.5MHz, 15kHz Input


Figure 236: QPSK 5MHz B.W.; 1962.5MHz, 30kHz Input


Figure 237: QPSK 5MHz B.W.; 1992.5MHz, 15kHz Input


Figure 238: QPSK 5MHz B.W.; 1992.5MHz, 30kHz Input

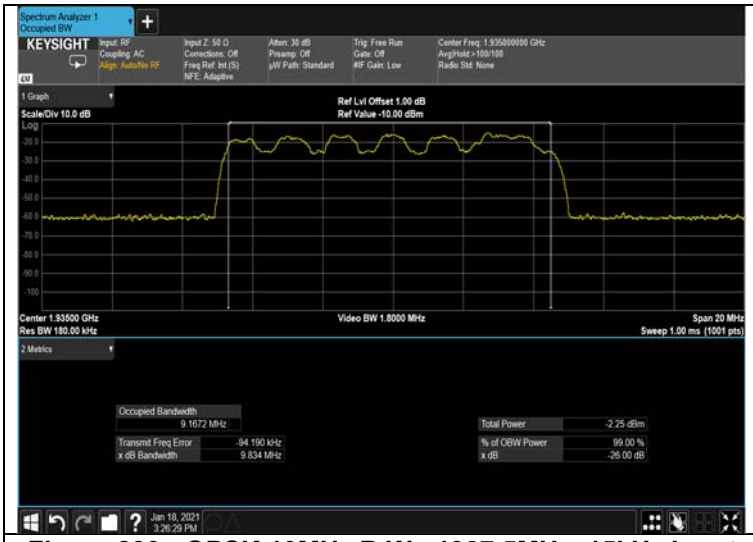


Figure 239: QPSK 10MHz B.W.; 1937.5MHz, 15kHz Input


Figure 240: QPSK 10MHz B.W.; 1937.5MHz, 30kHz Input

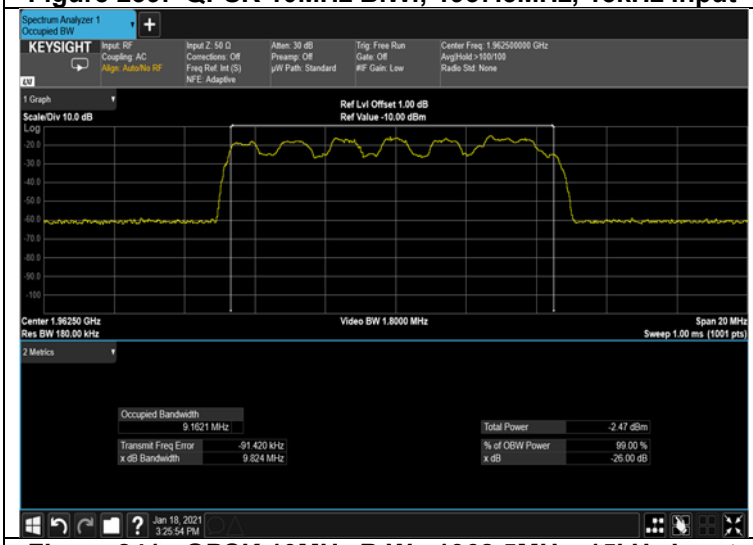


Figure 241: QPSK 10MHz B.W.; 1962.5MHz, 15kHz Input


Figure 242: QPSK 10MHz B.W.; 1962.5MHz, 30kHz Input

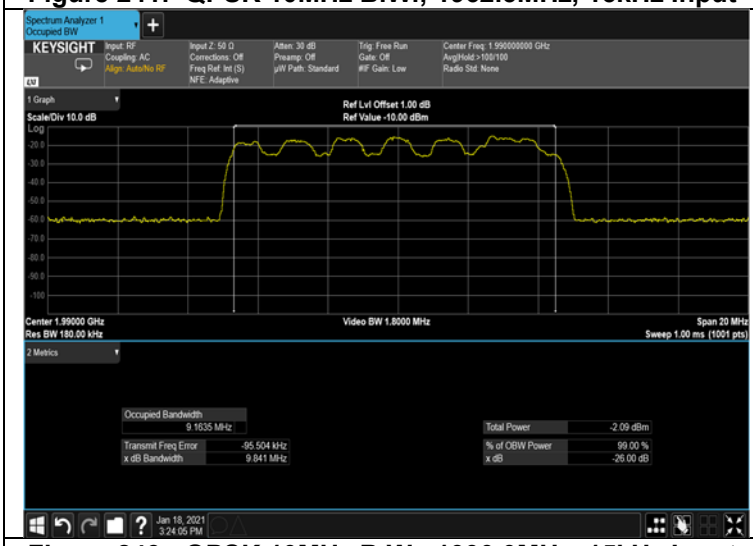


Figure 243: QPSK 10MHz B.W.; 1990.0MHz, 15kHz Input

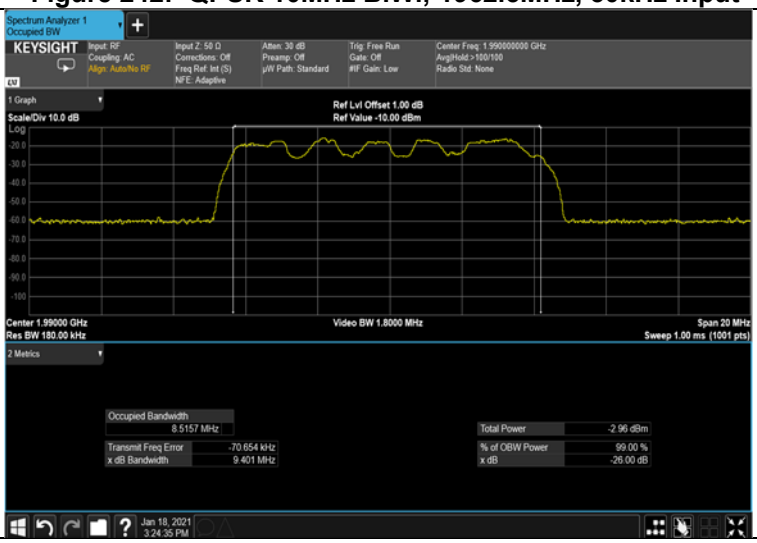


Figure 244: QPSK 10MHz B.W.; 1990.0MHz, 30kHz Input


Figure 245: QPSK 15MHz B.W.; 1937.5MHz, 15kHz Input

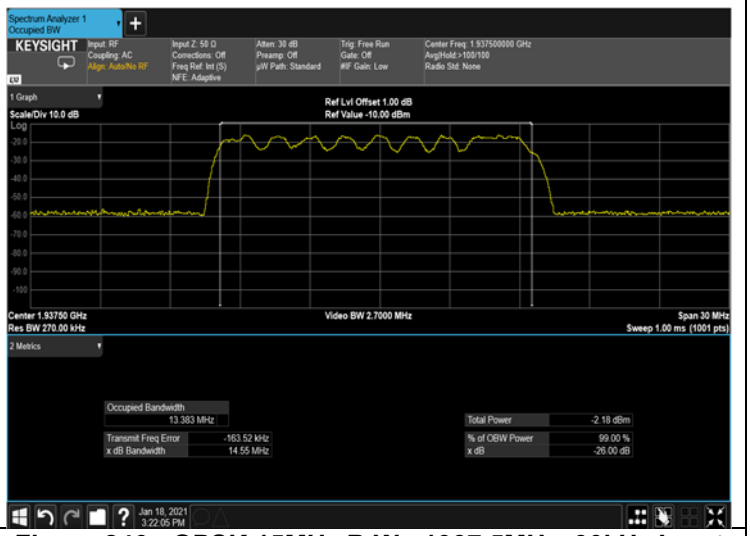


Figure 246: QPSK 15MHz B.W.; 1937.5MHz, 30kHz Input


Figure 247: QPSK 15MHz B.W.; 1962.5MHz, 15kHz Input

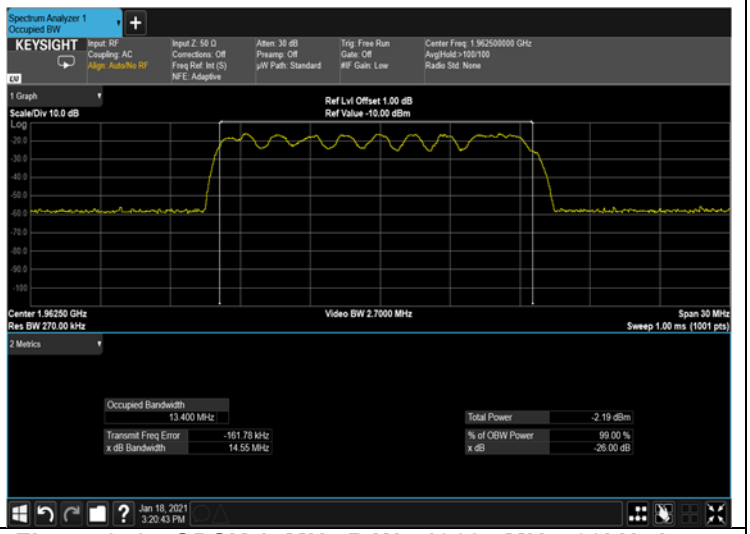


Figure 248: QPSK 15MHz B.W.; 1962.5MHz, 30kHz Input

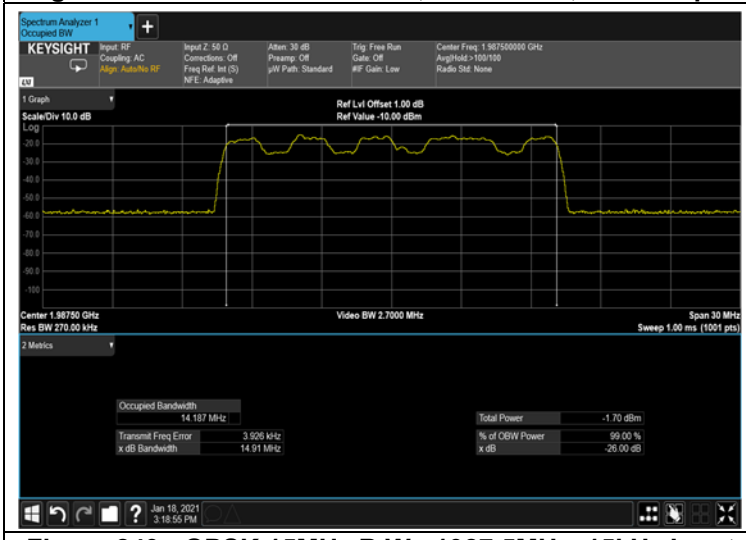


Figure 249: QPSK 15MHz B.W.; 1987.5MHz, 15kHz Input


Figure 250: QPSK 15MHz B.W.; 1987.5MHz, 30kHz Input