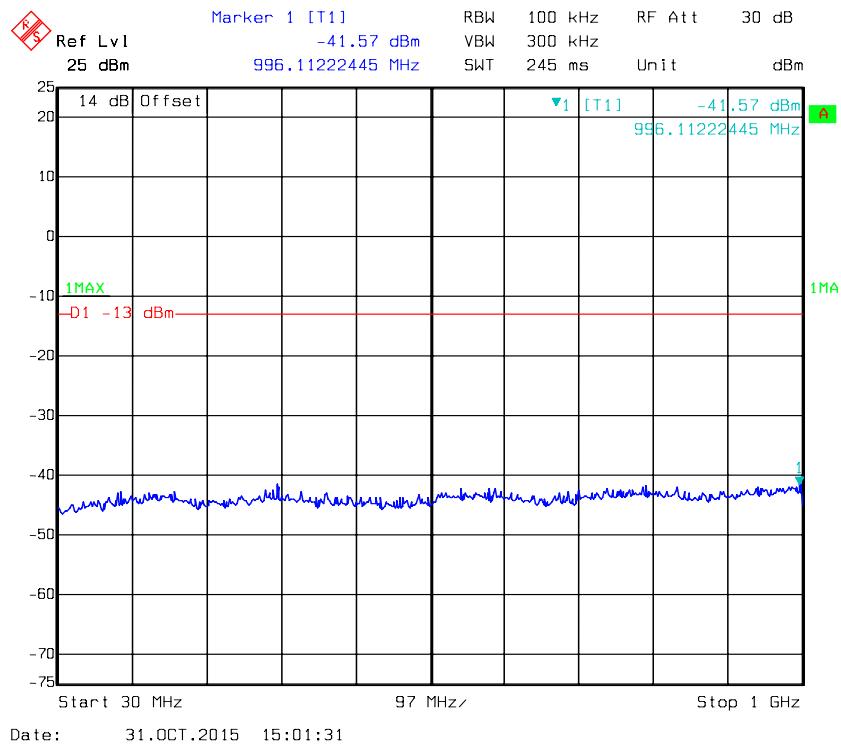
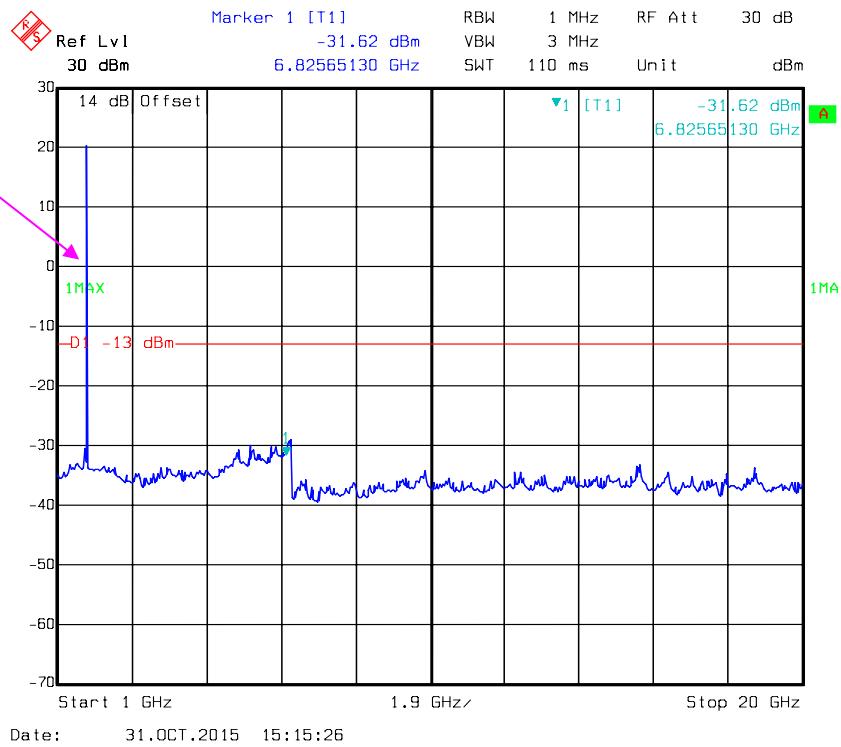
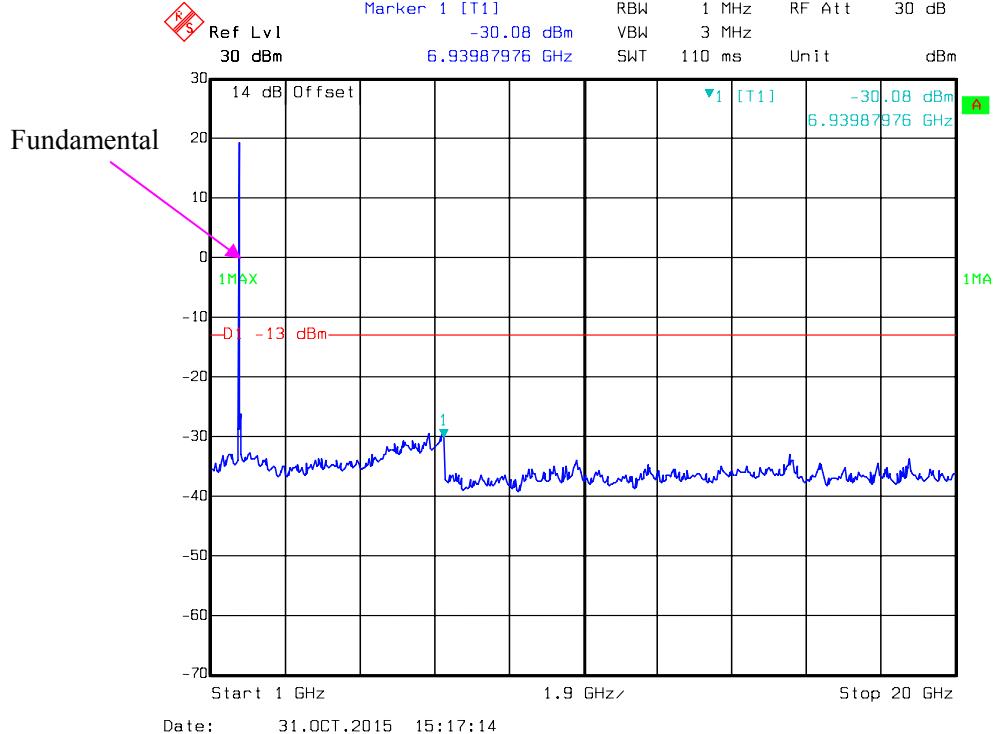
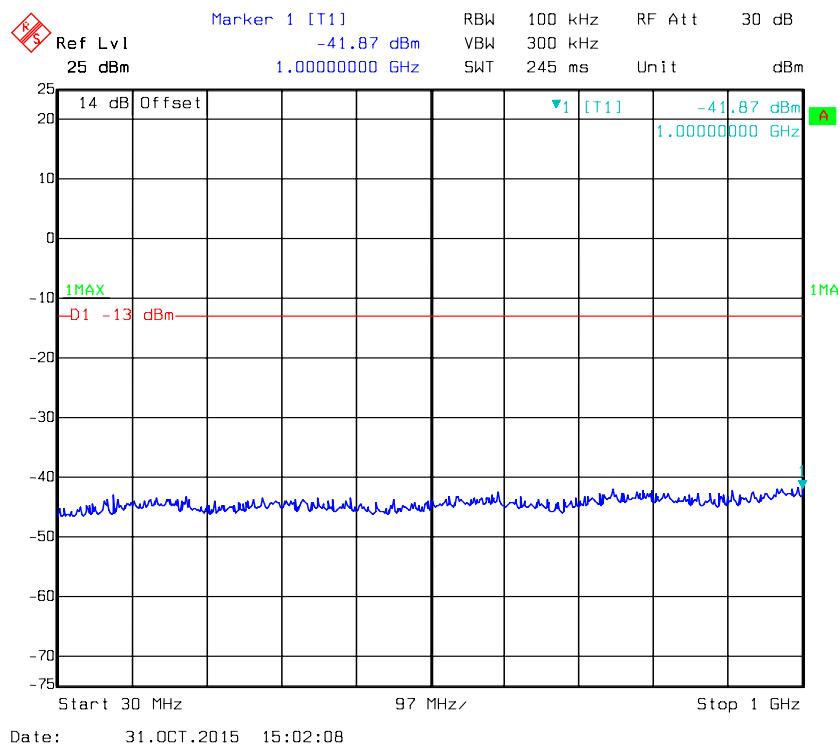
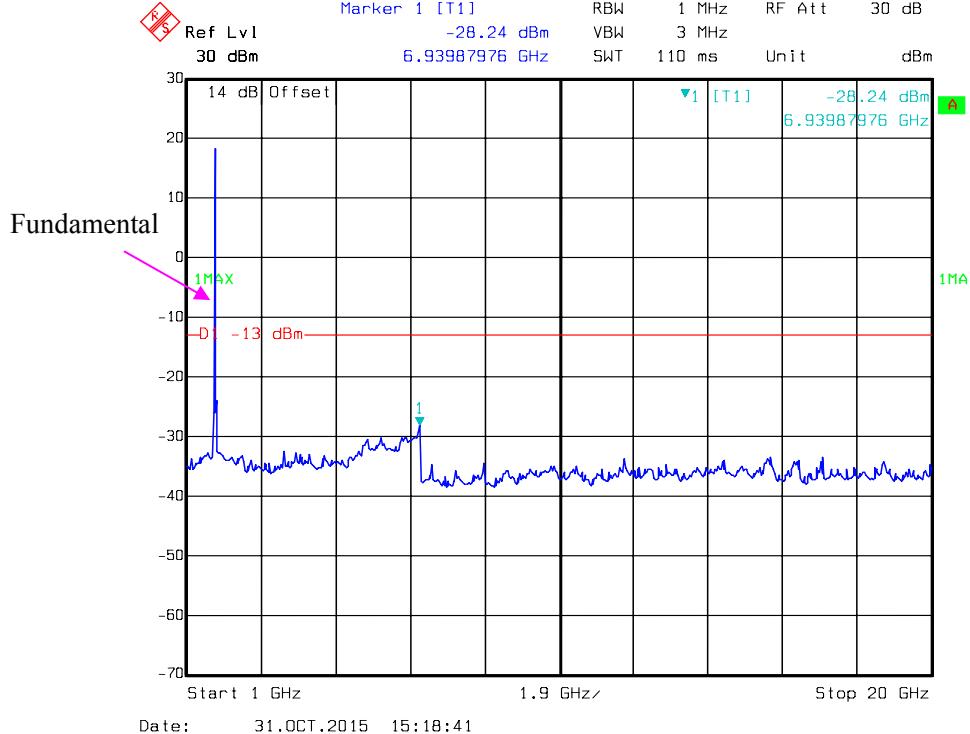
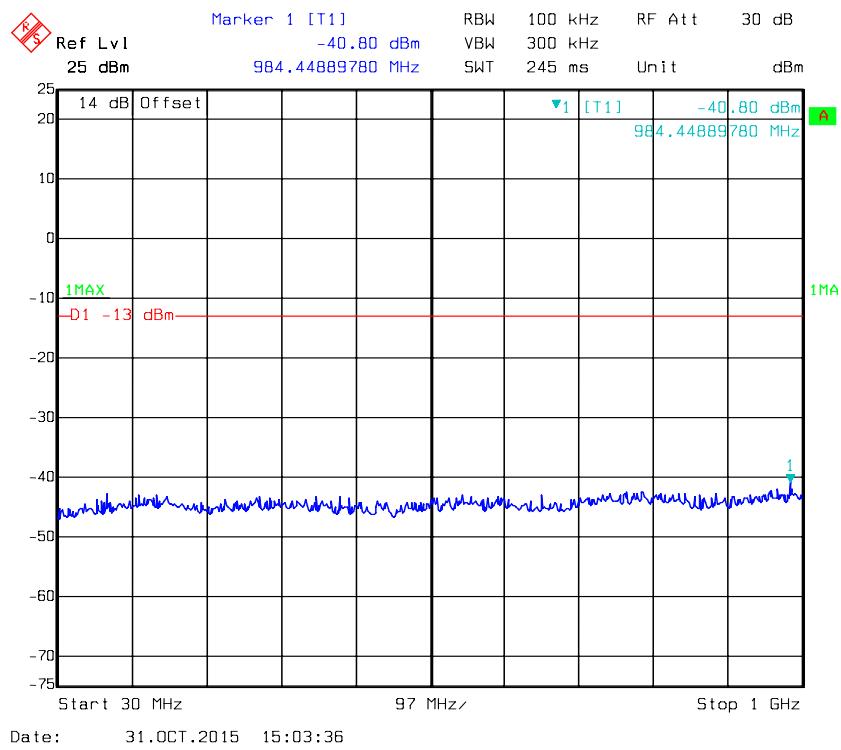


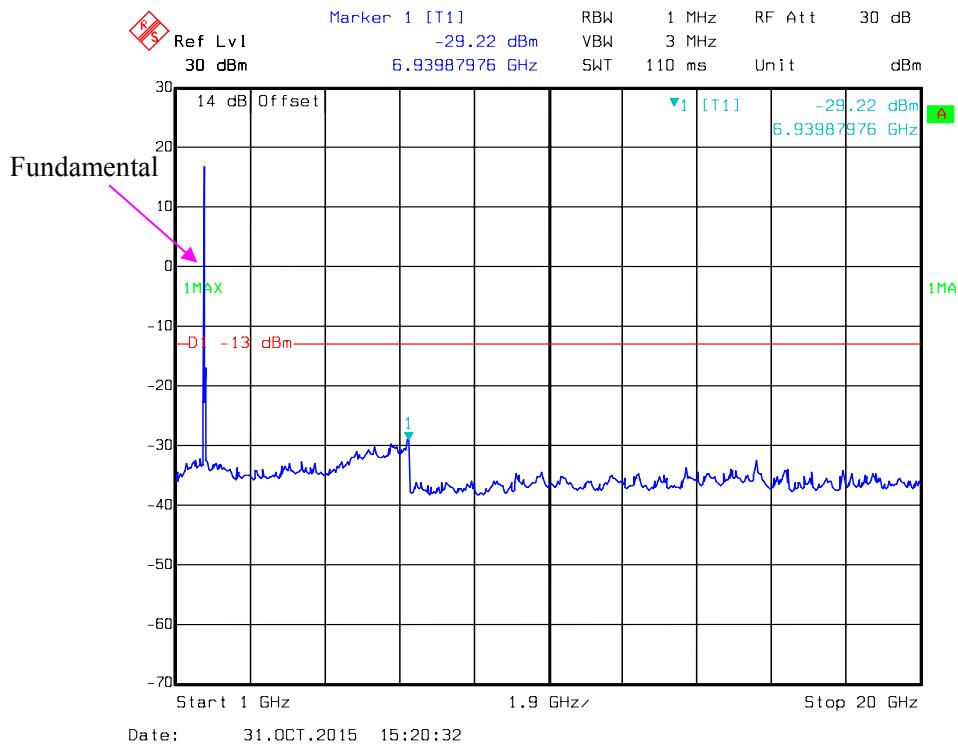
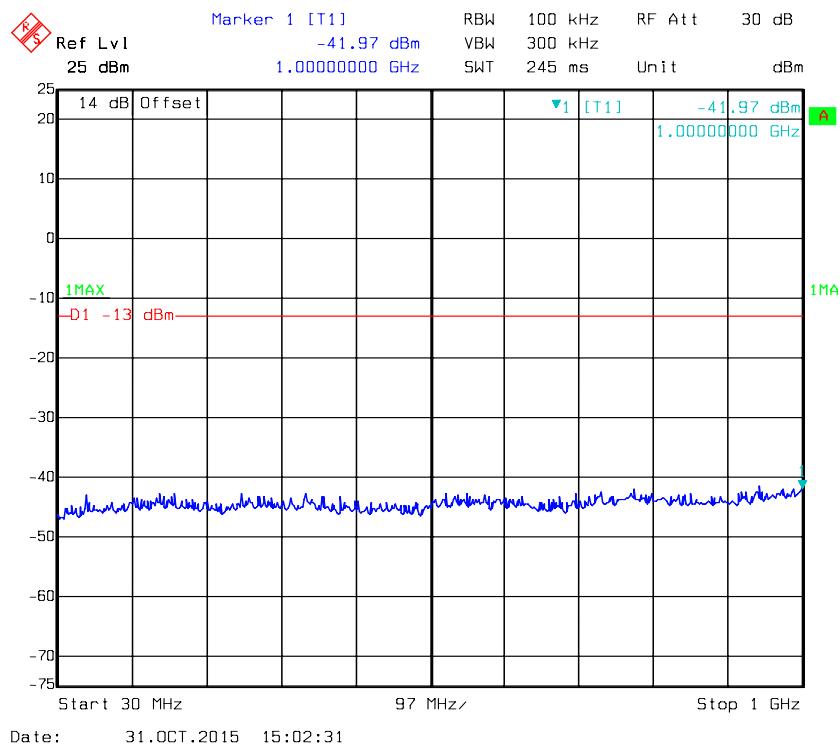
16-QAM, Band 4-5M _ Middle Channel

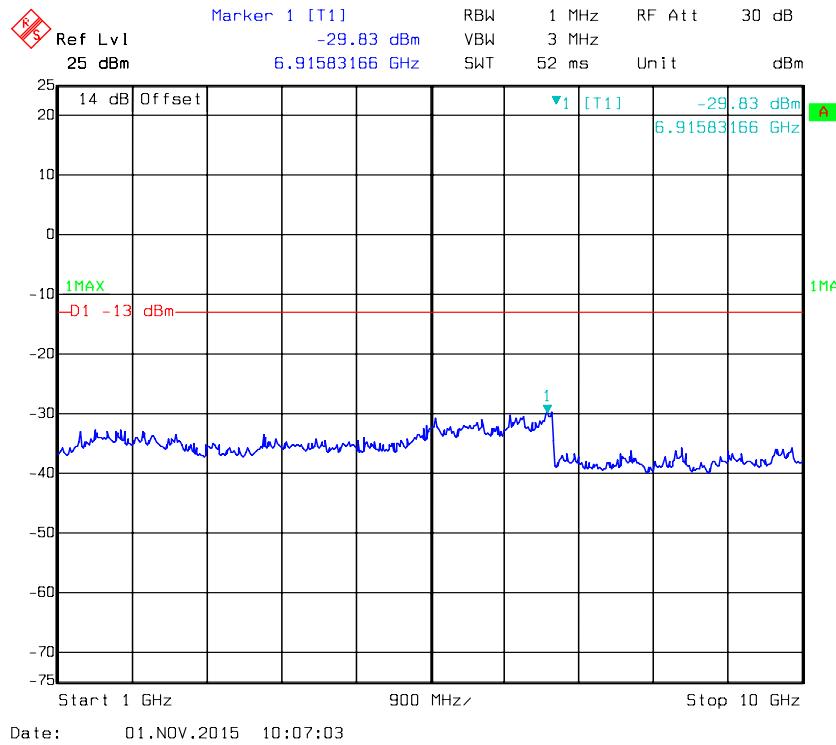
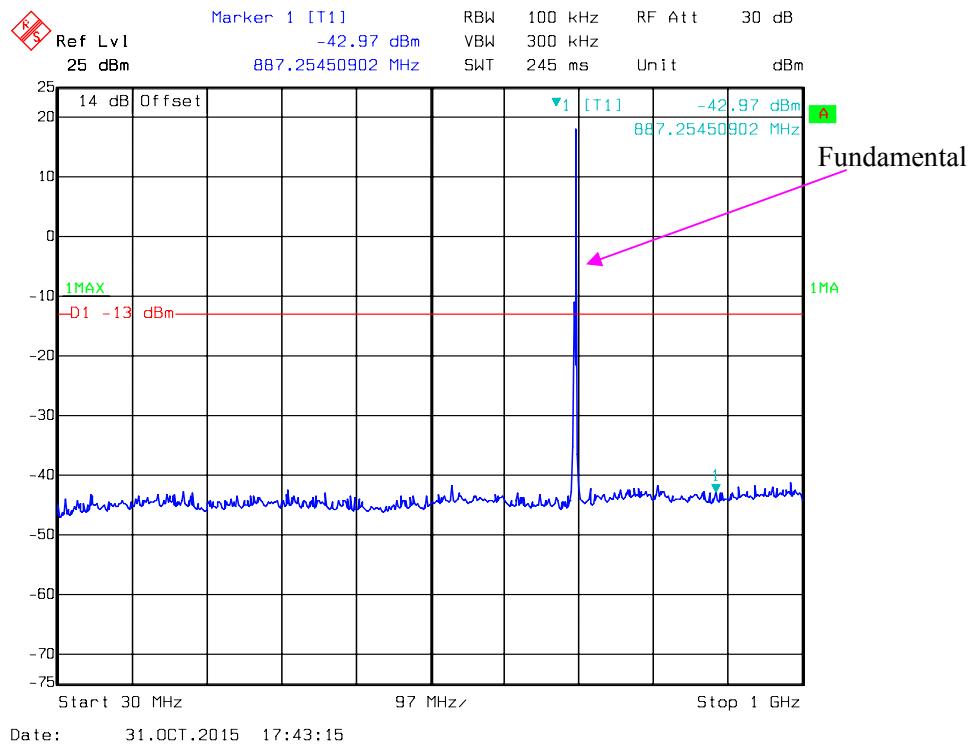
Fundamental

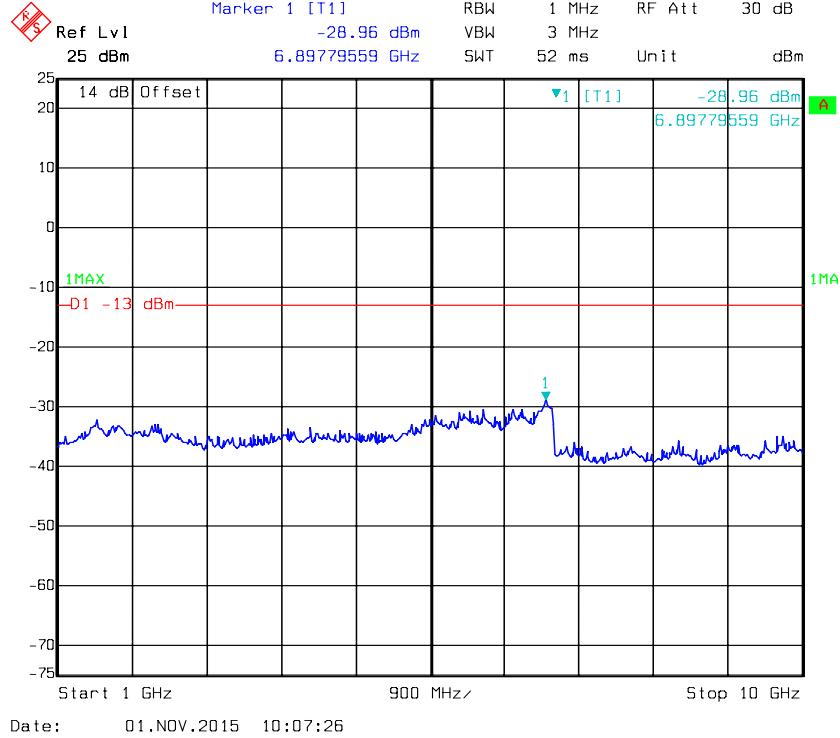
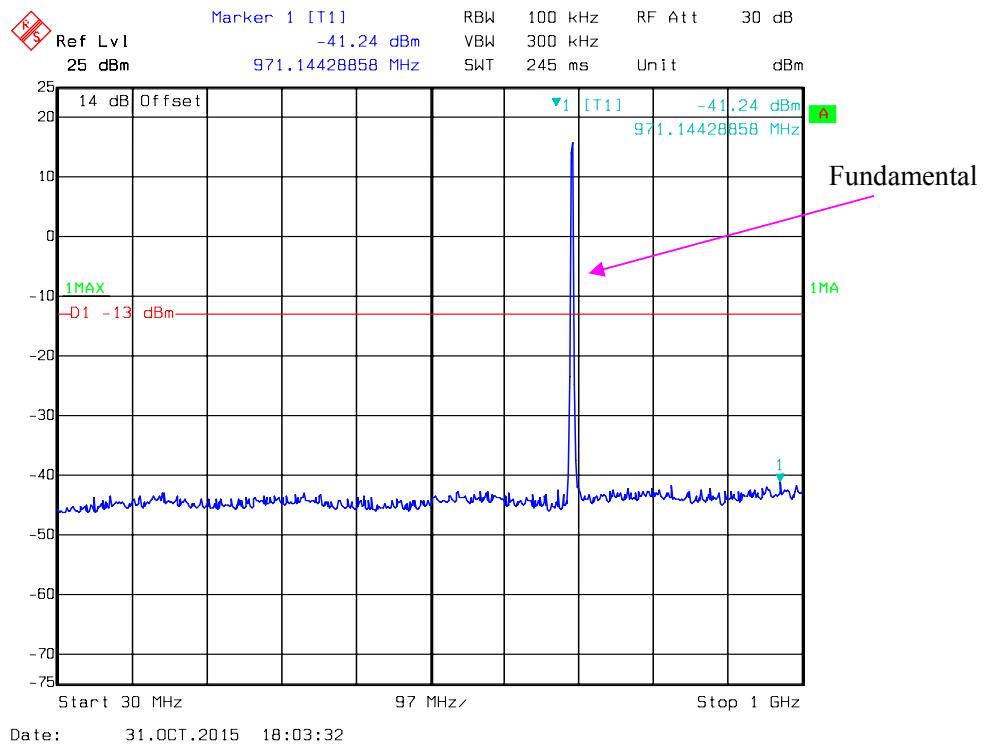


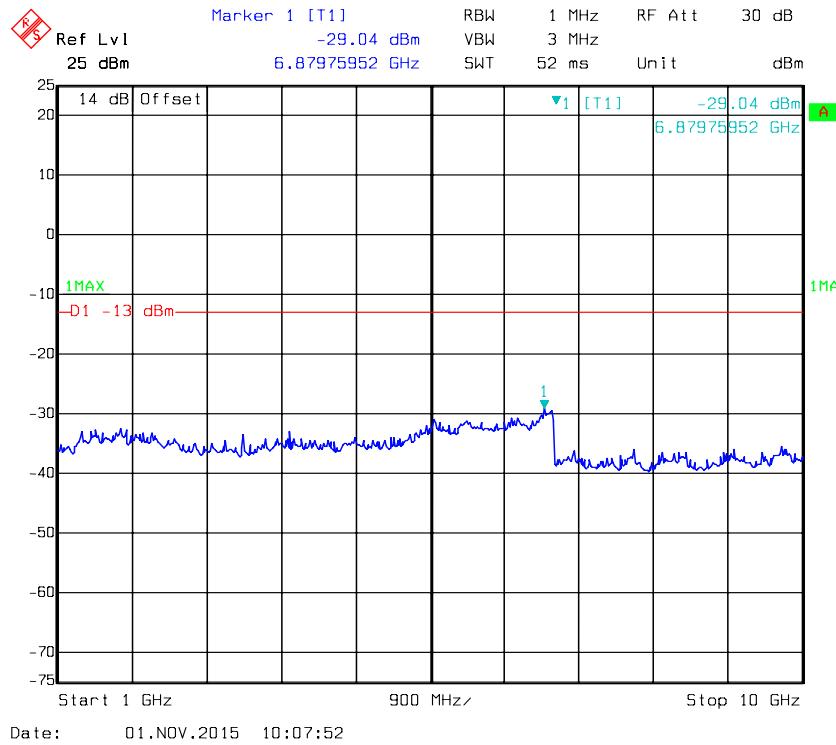
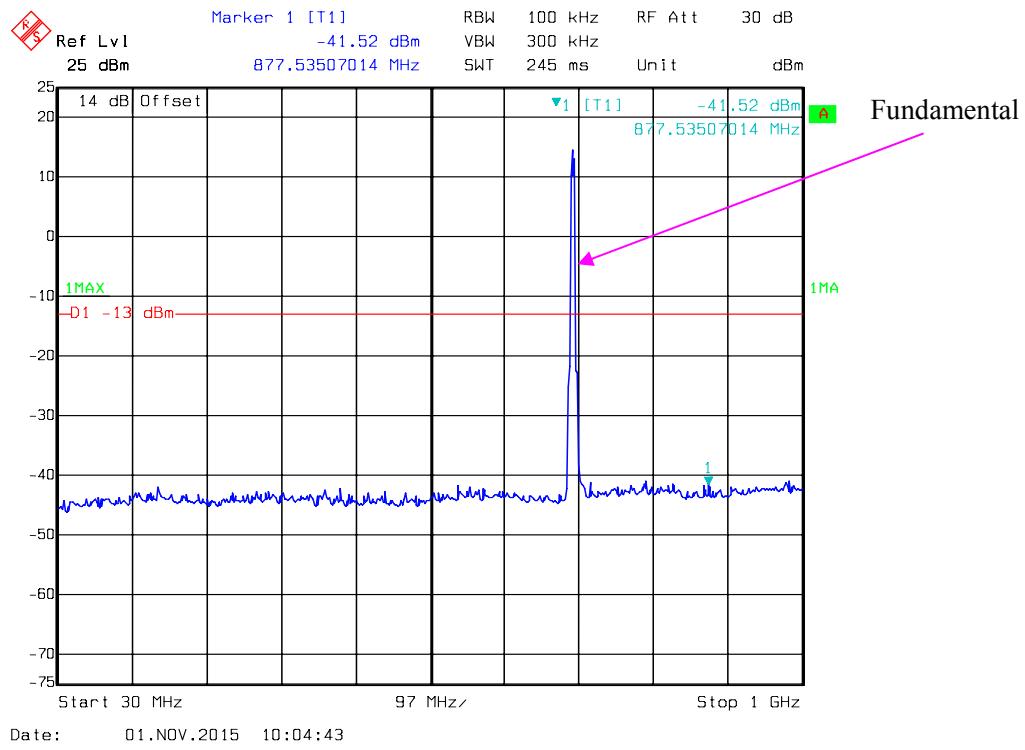
16-QAM, Band 4-10M _ Middle Channel

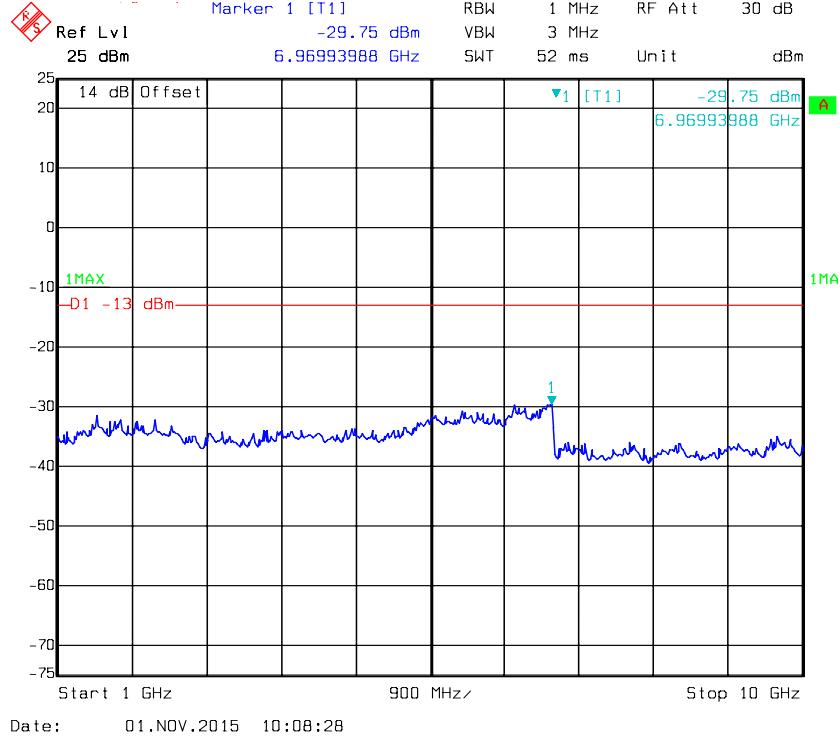
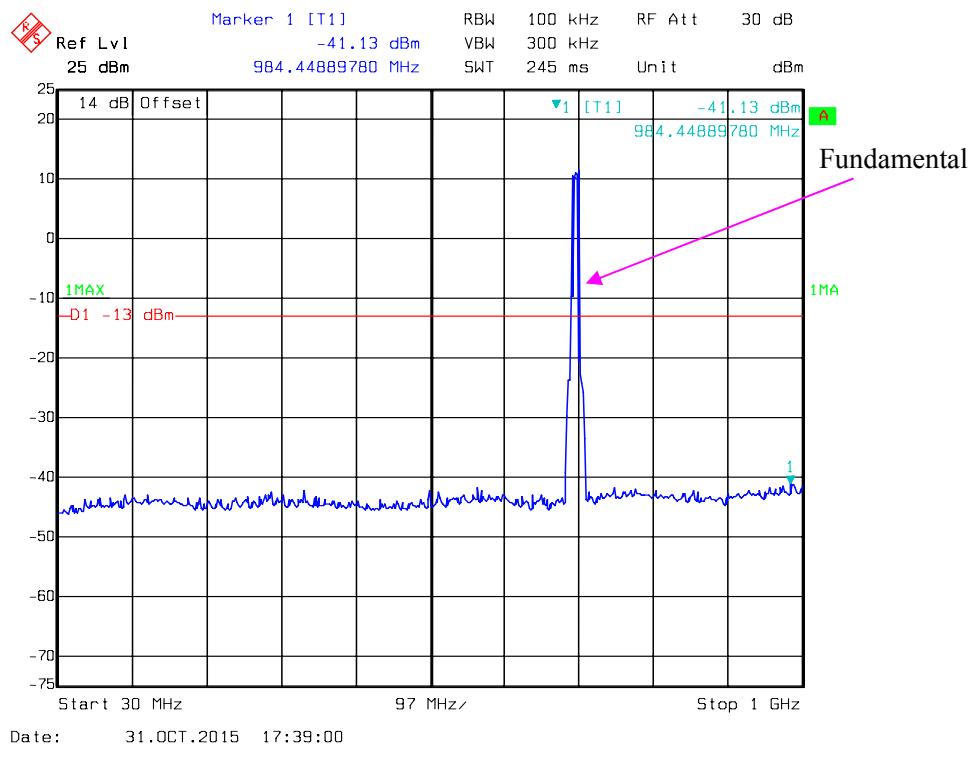
16-QAM, Band 4-15M _ Middle Channel

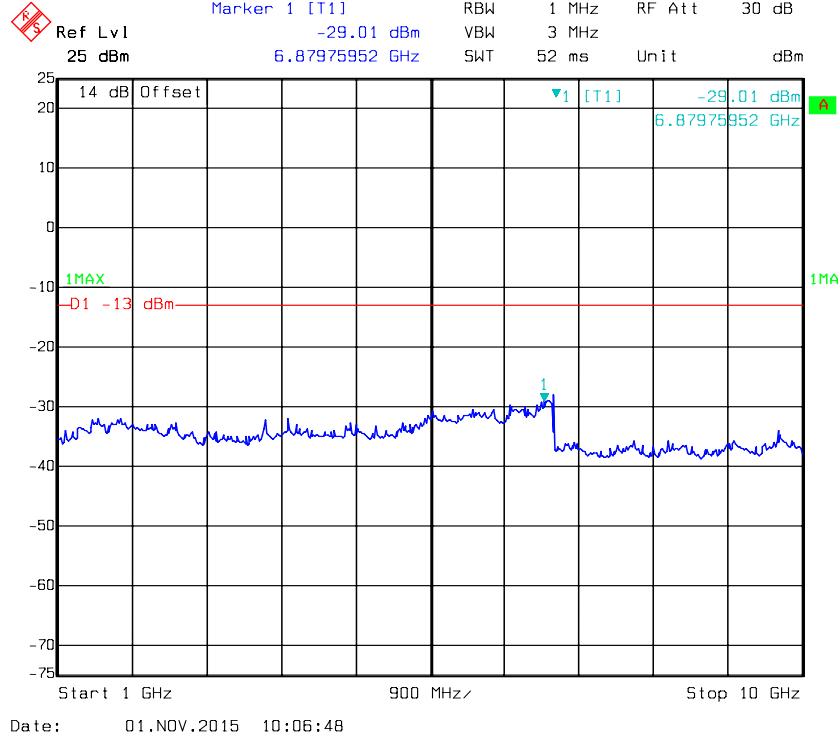
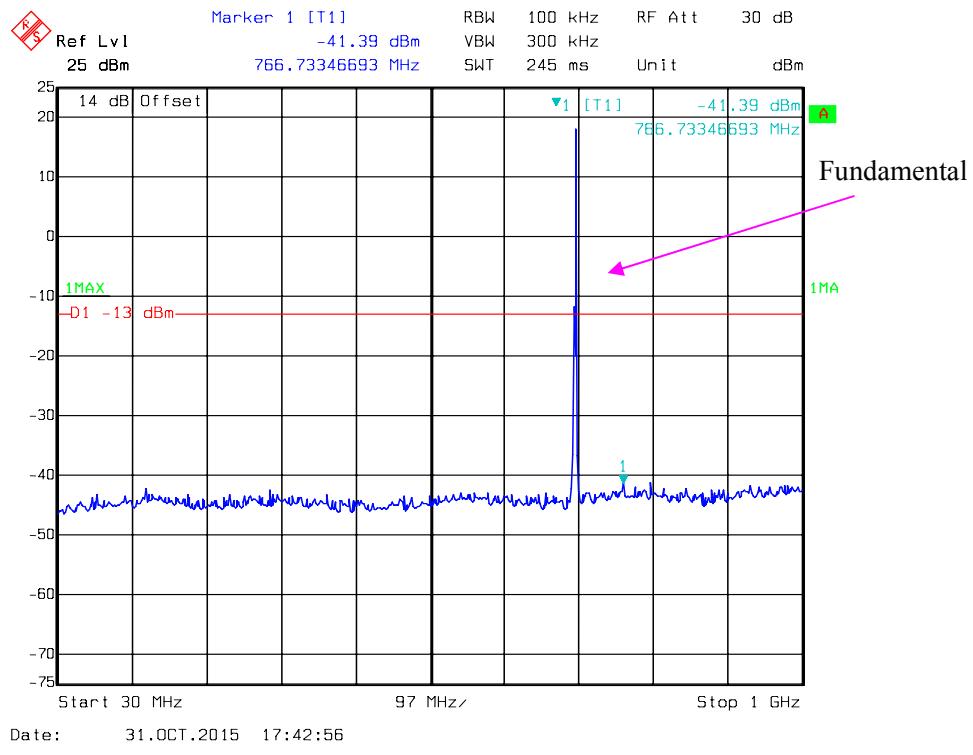
16-QAM, Band 4-20M _ Middle Channel

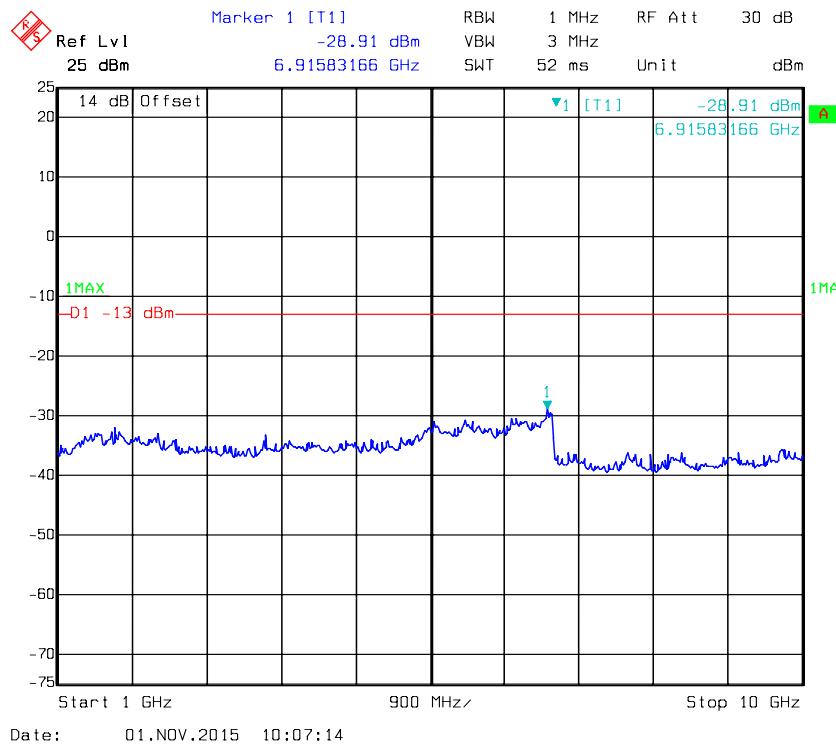
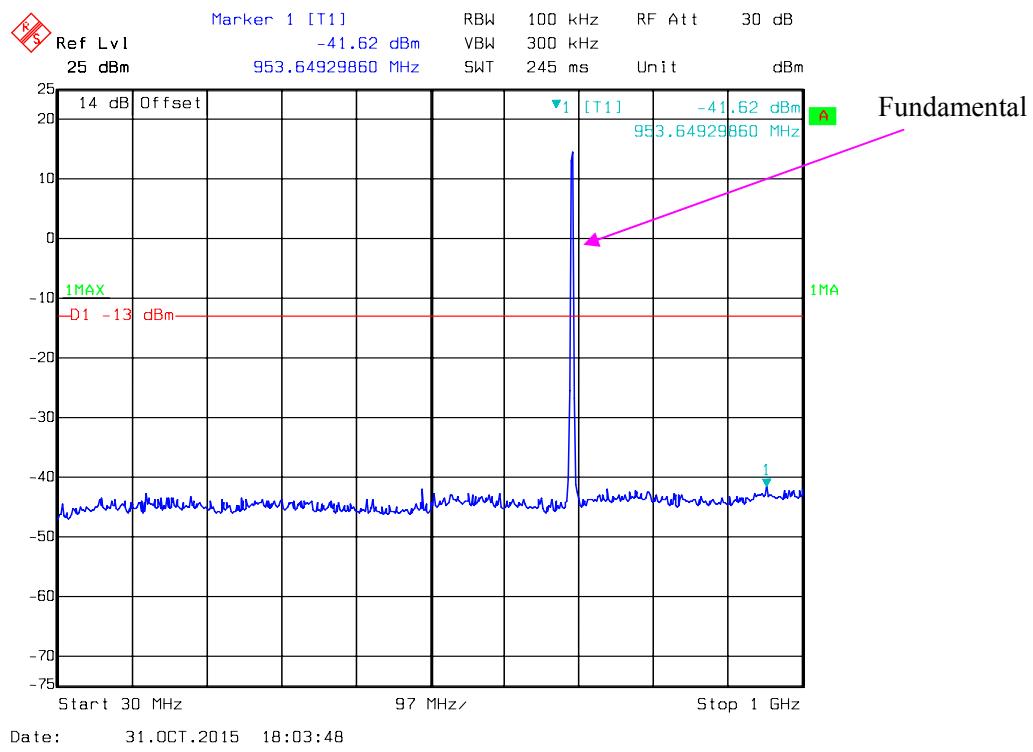
QPSK, Band 12-1.4M _ Middle Channel

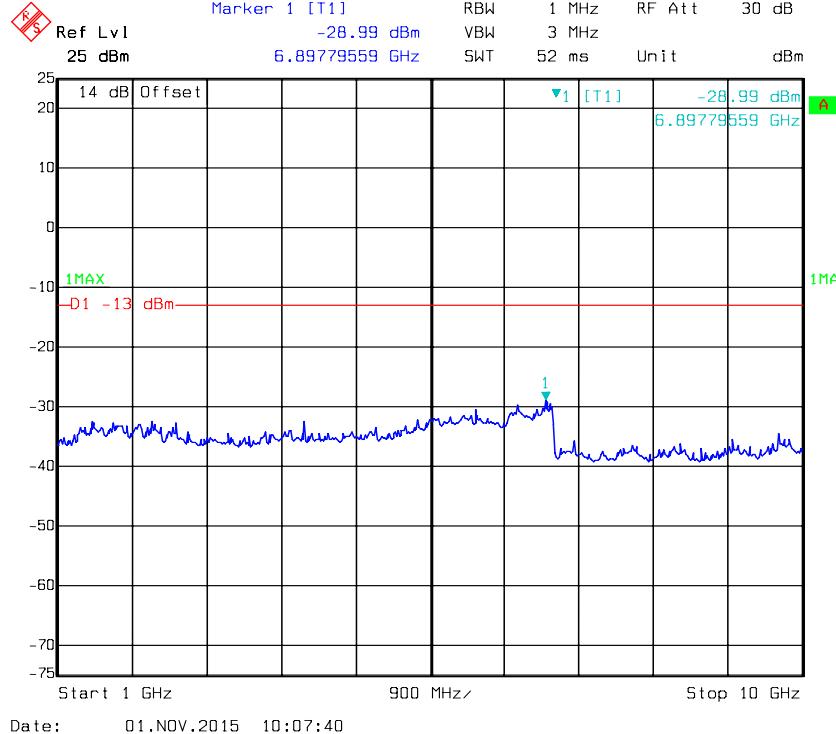
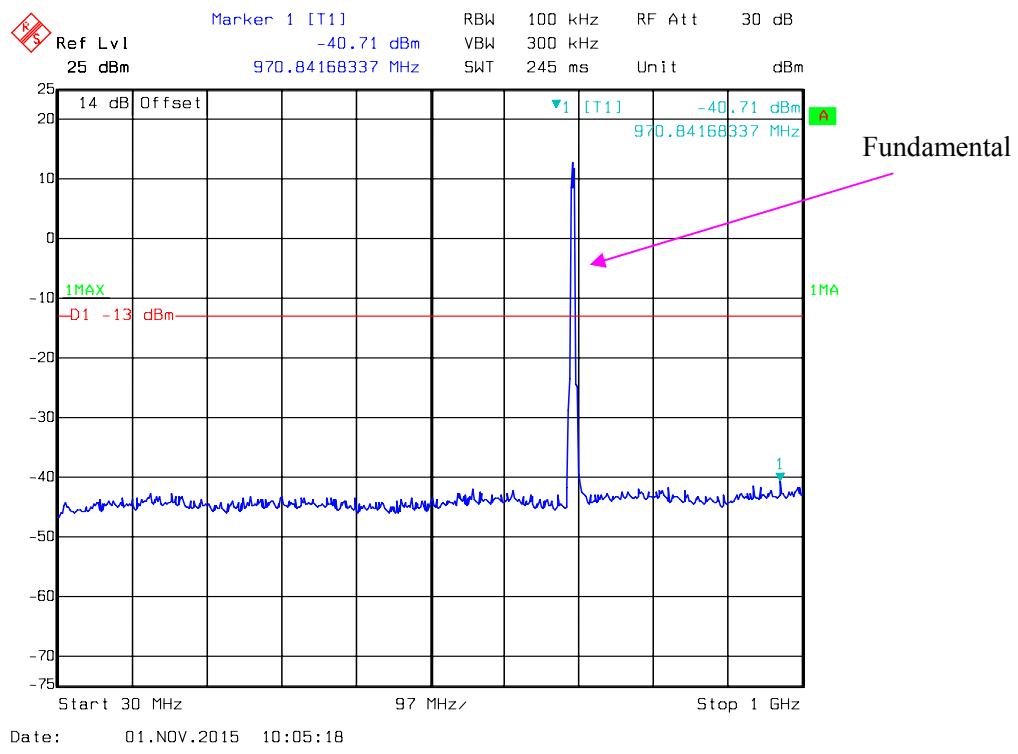
QPSK, Band 12-3M _ Middle Channel

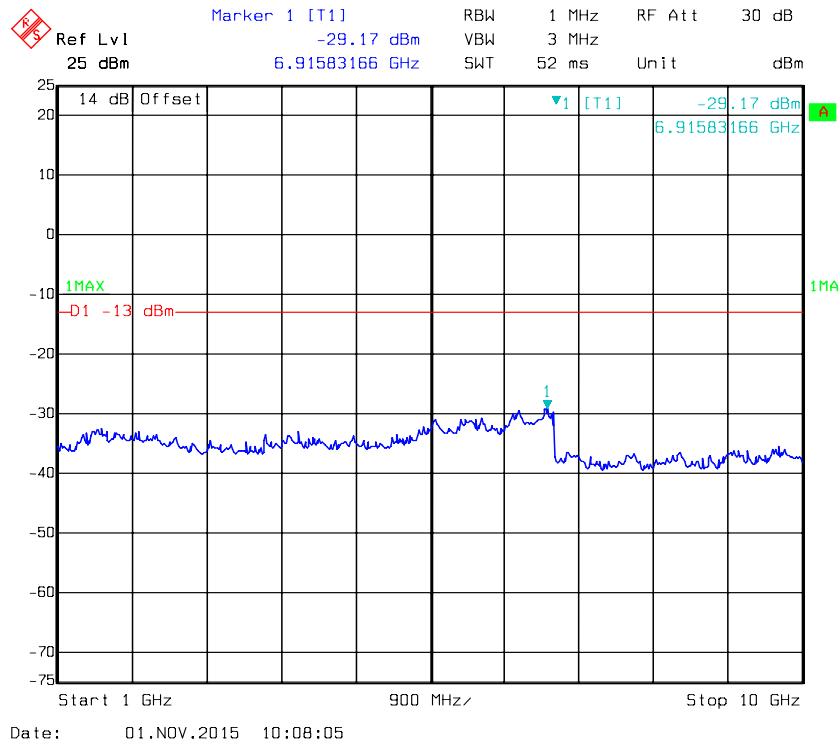
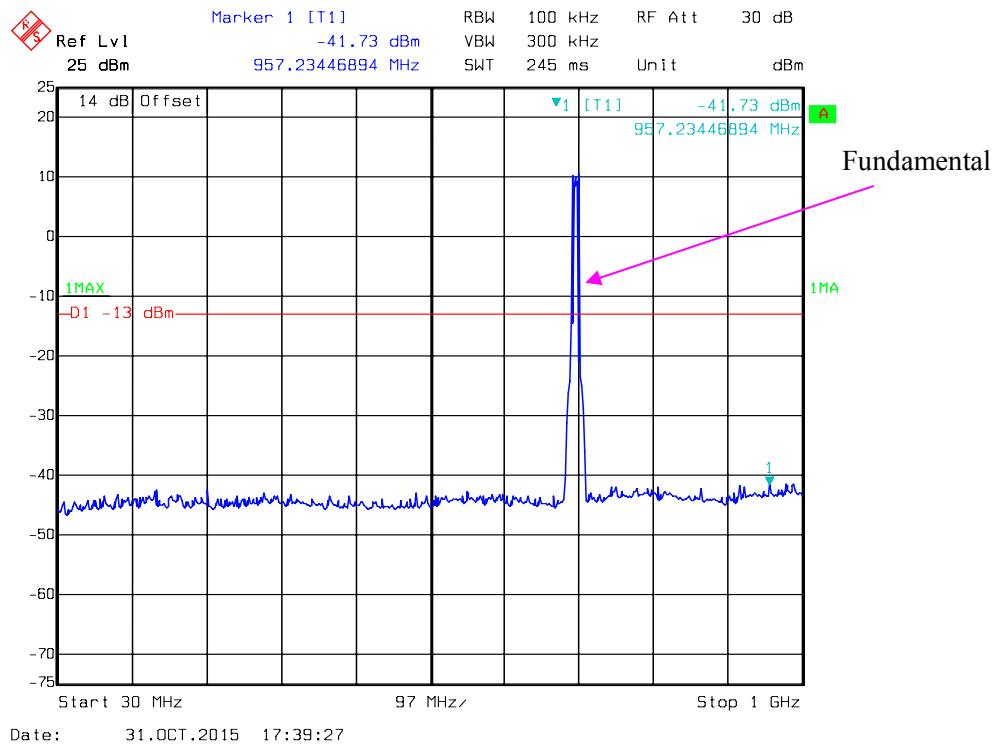
QPSK, Band 12-5M _ Middle Channel

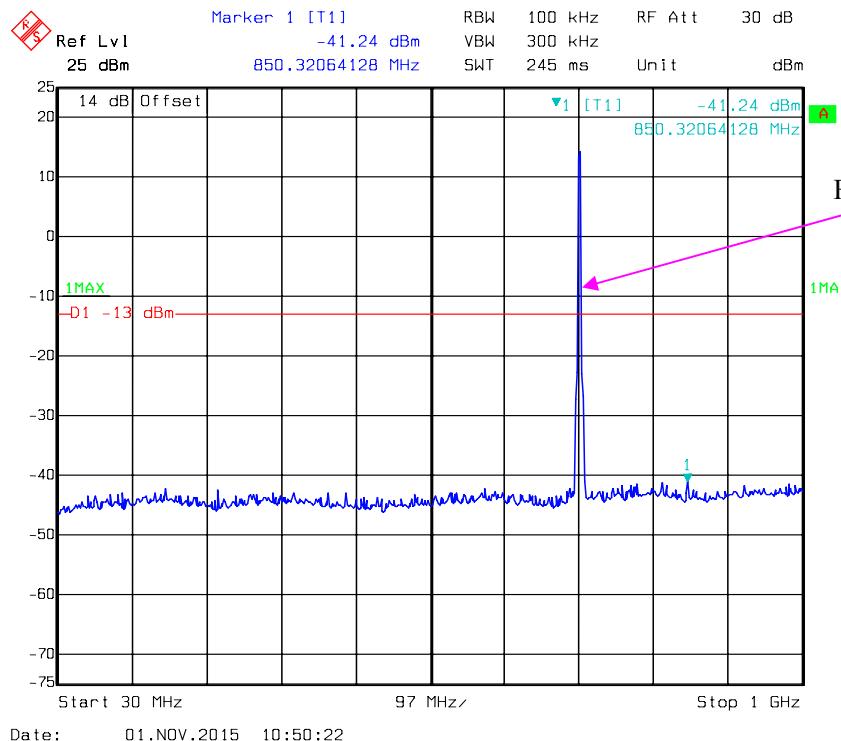
QPSK, Band 12-10M _ Middle Channel

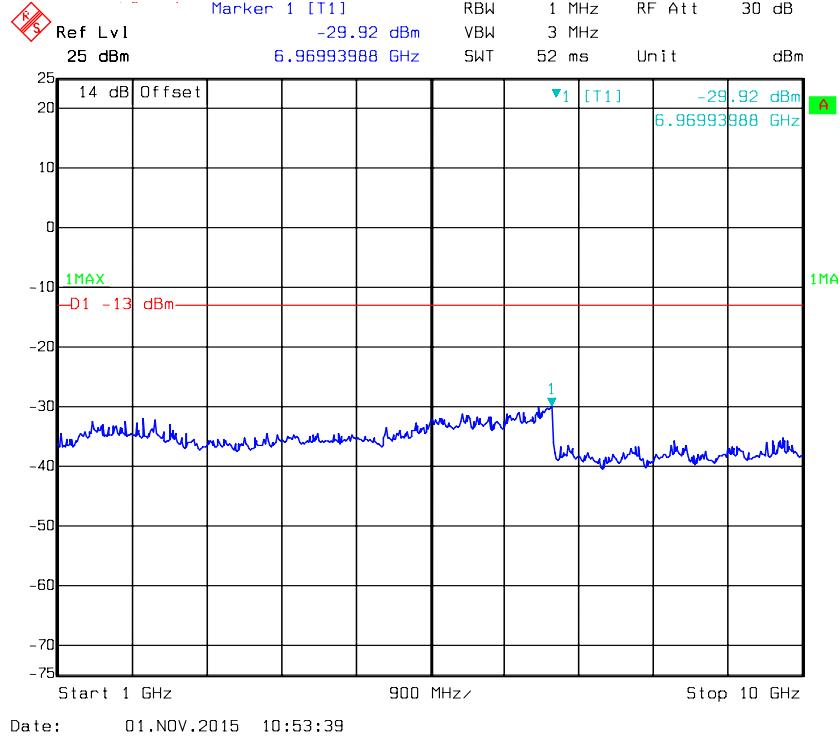
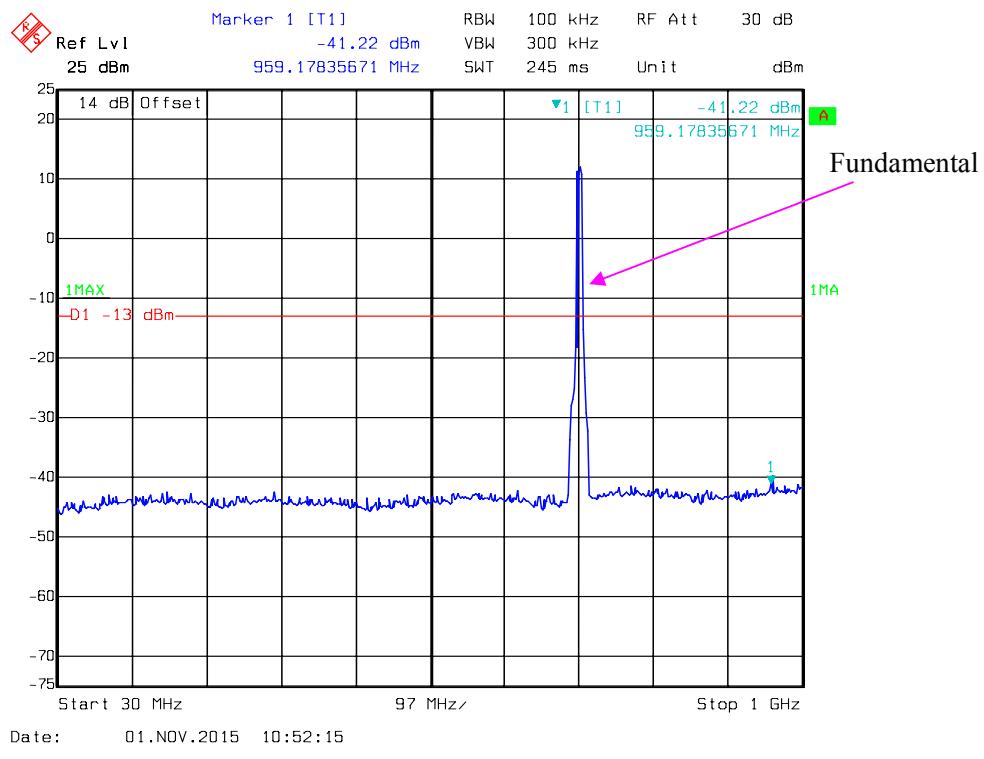
16-QAM, Band 12-1.4M _ Middle Channel

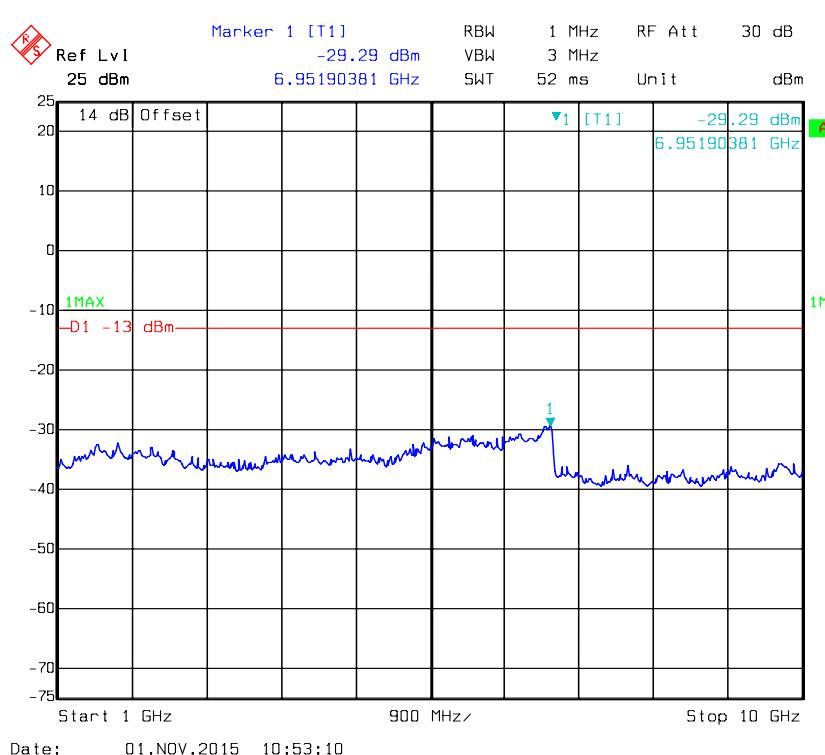
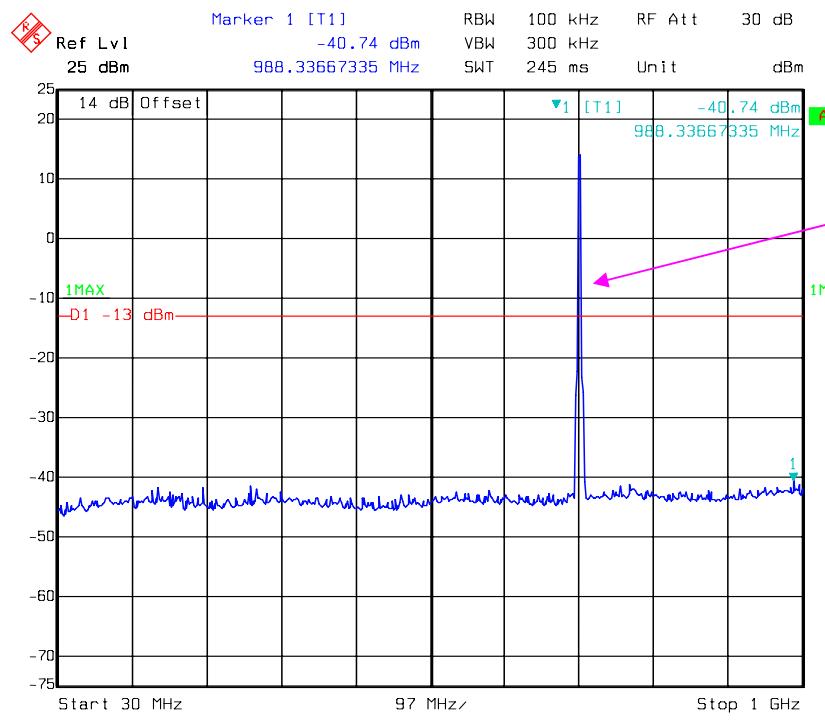
16-QAM, Band 12-3M _ Middle Channel

16-QAM, Band 12-5M _ Middle Channel

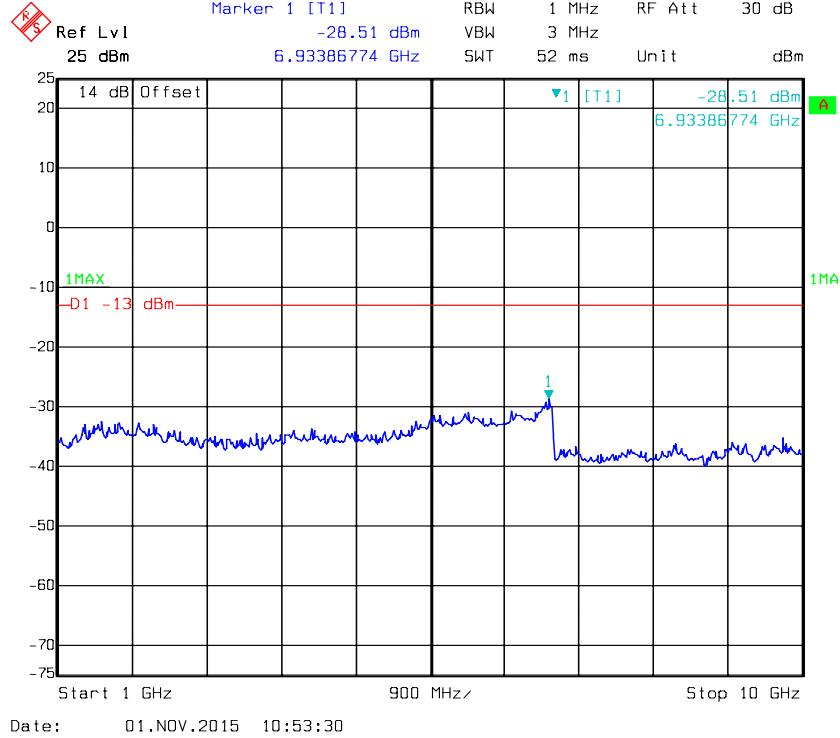
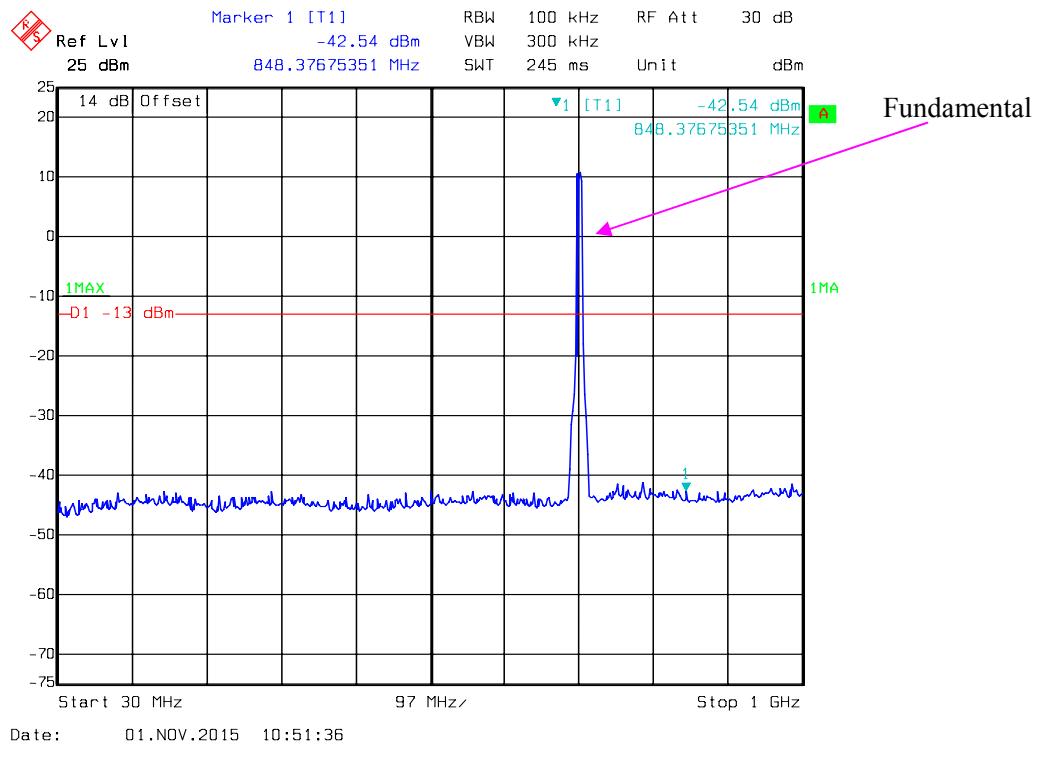
16-QAM, Band 12-10M _ Middle Channel

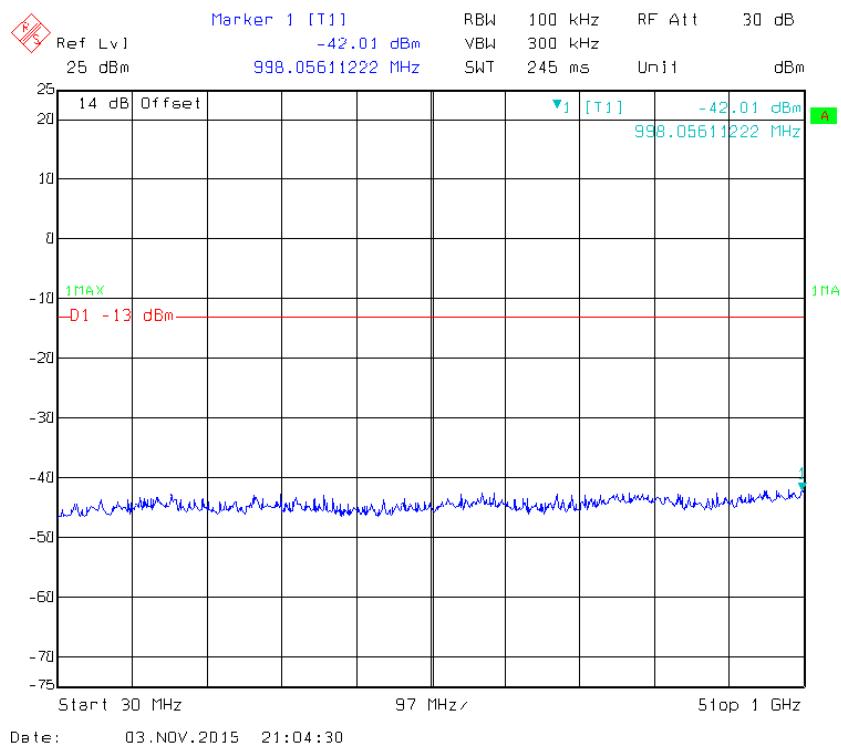
QPSK, Band 17-5M _ Middle Channel

QPSK, Band 17-10M _ Middle Channel

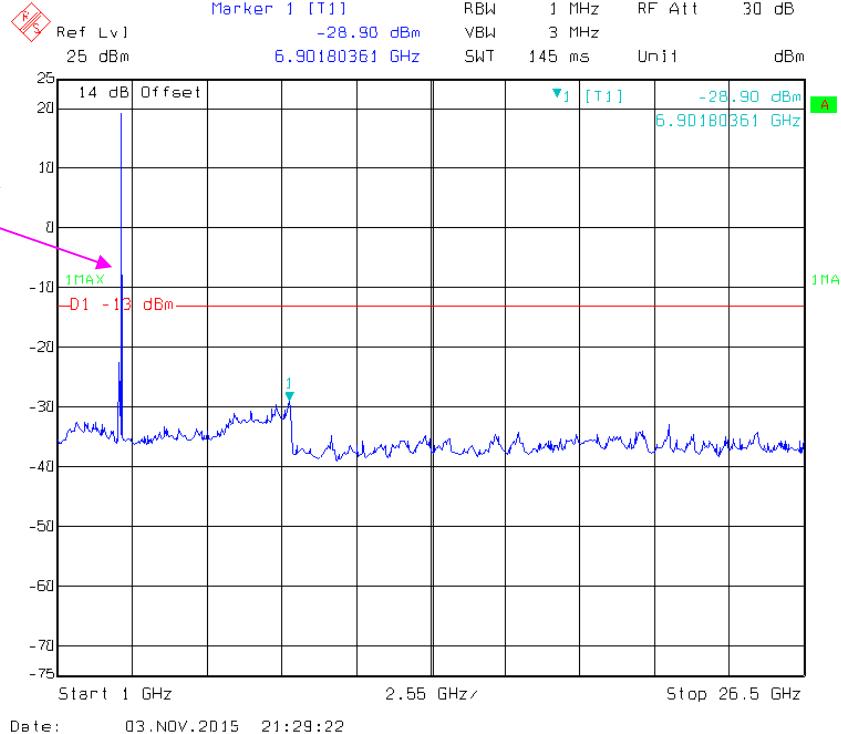
16-QAM, Band 17-5M _ Middle Channel

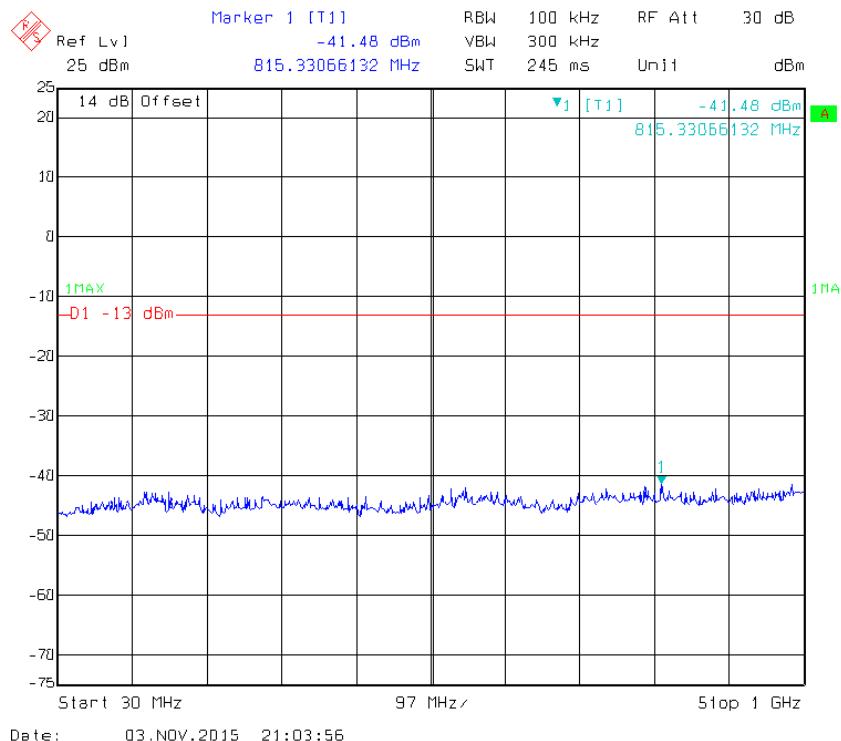
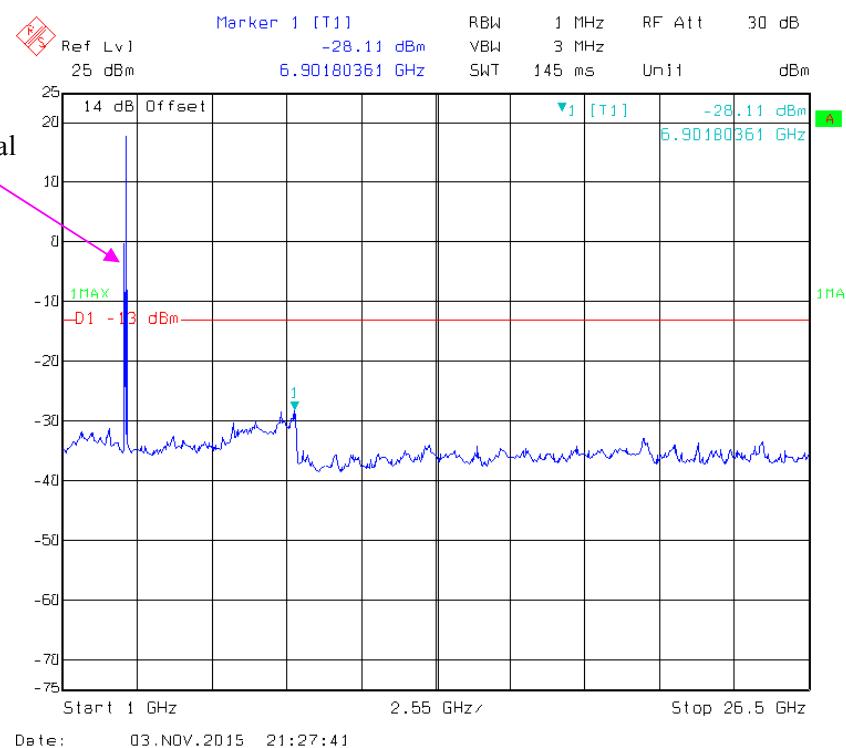
16-QAM, Band 17-10M _ Middle Channel

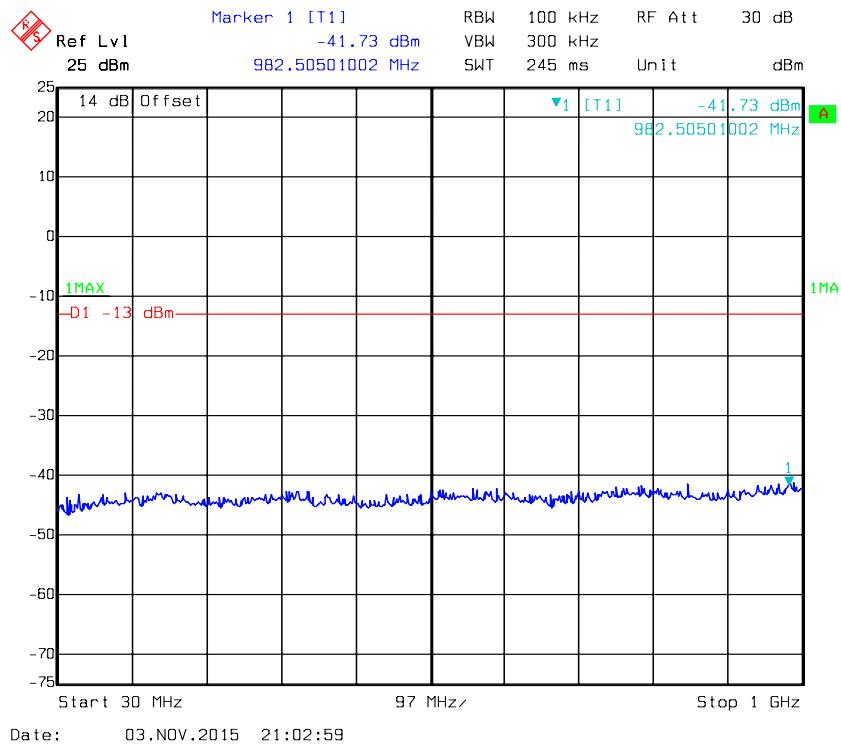


QPSK, Band 41-5M _ Middle Channel

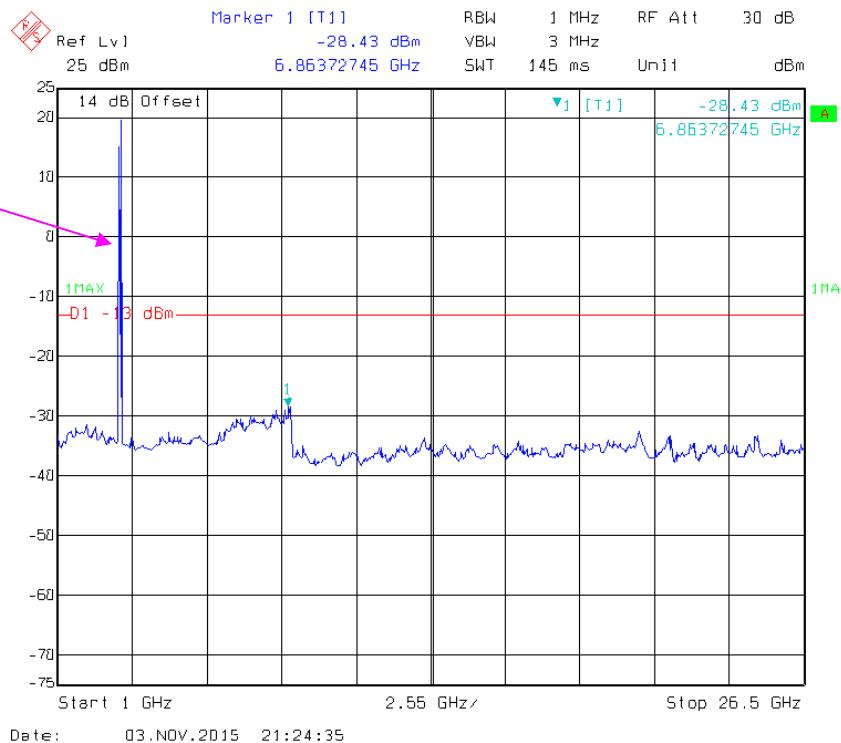
Fundamental

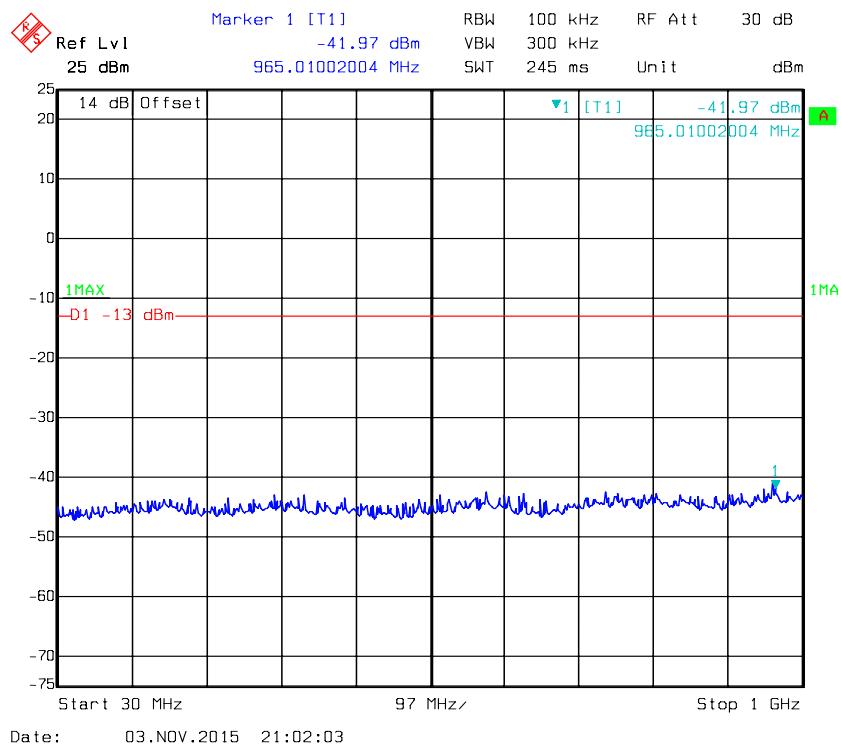


QPSK, Band 41-10M _ Middle Channel**Fundamental**

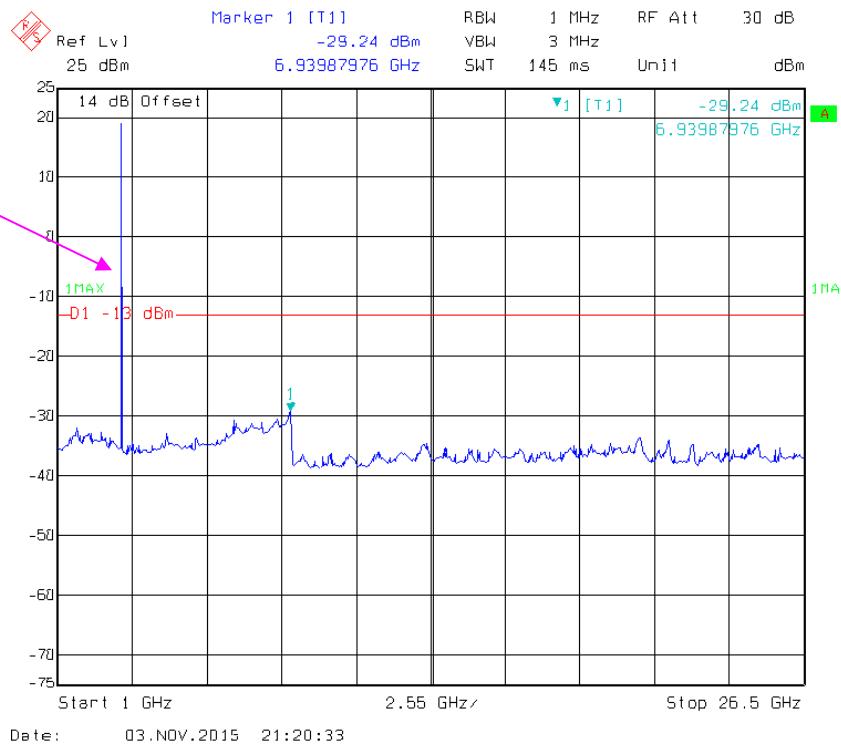
QPSK, Band 41-15M _ Middle Channel

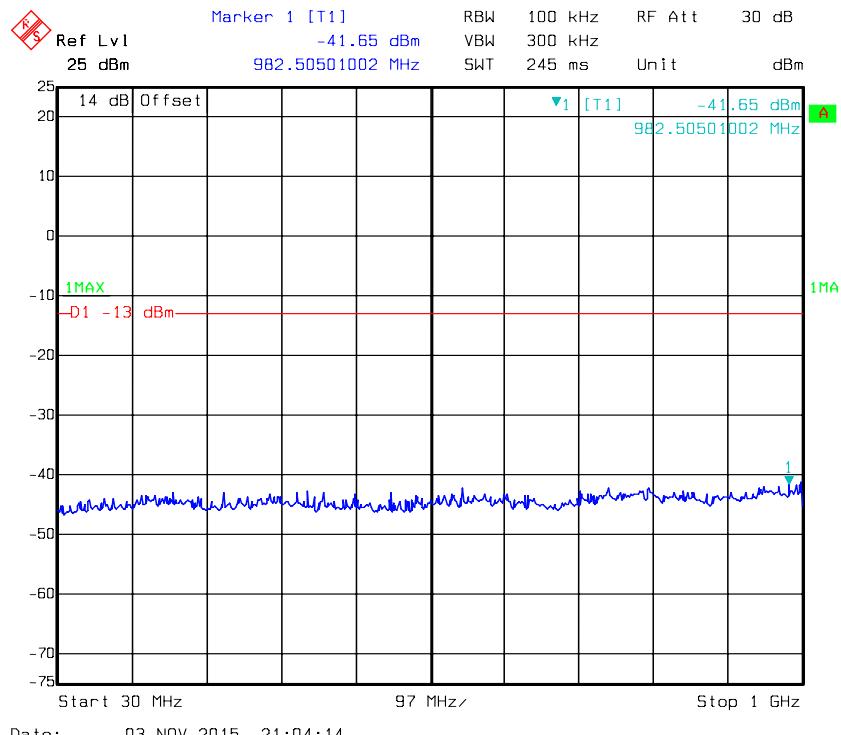
Fundamental



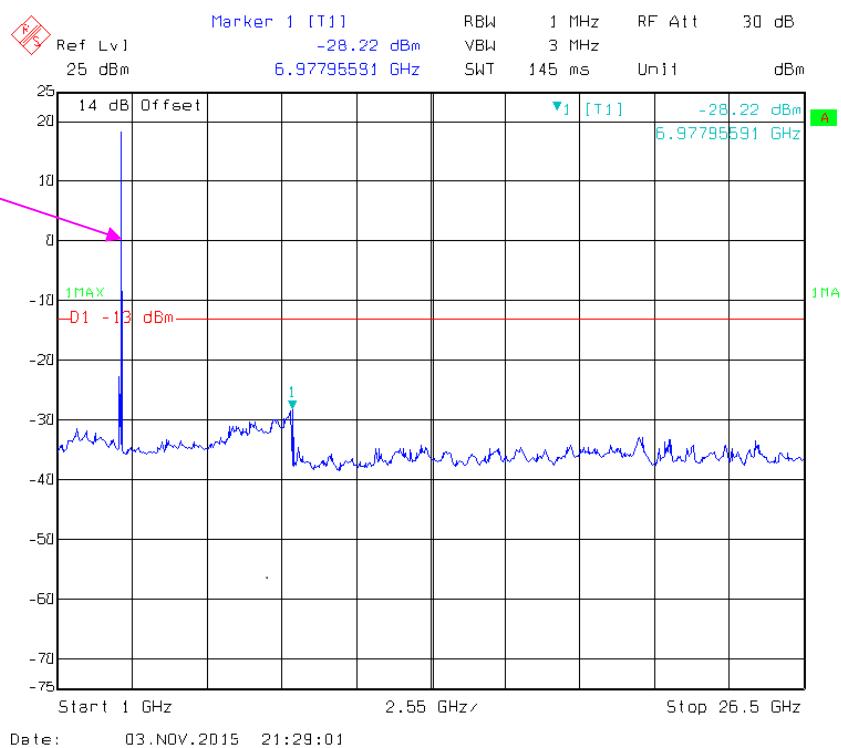
QPSK, Band 41-20M _ Middle Channel

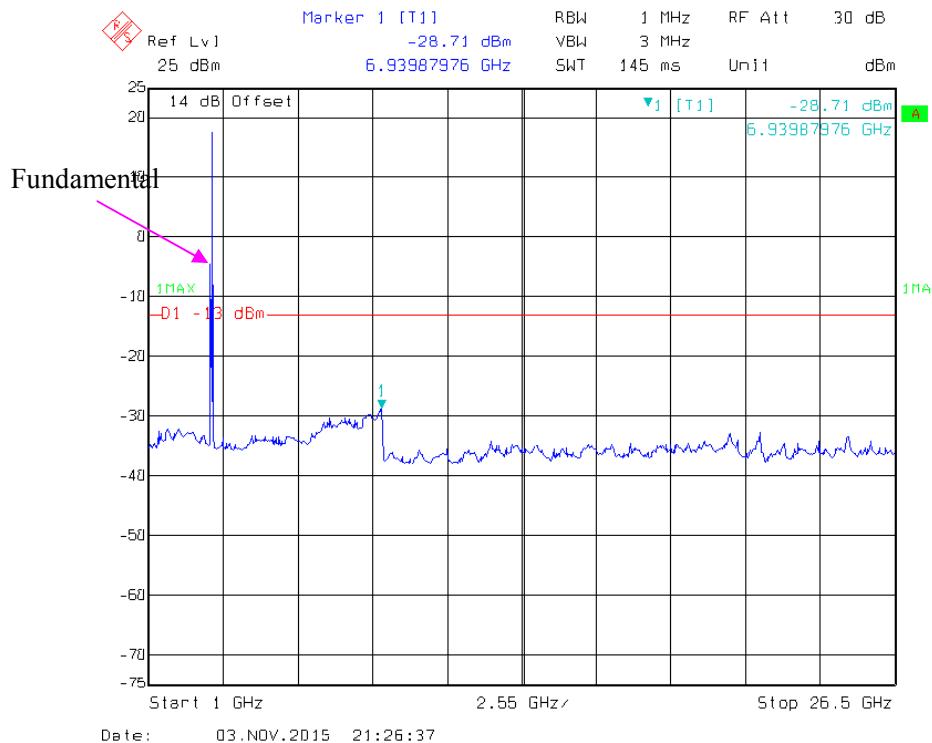
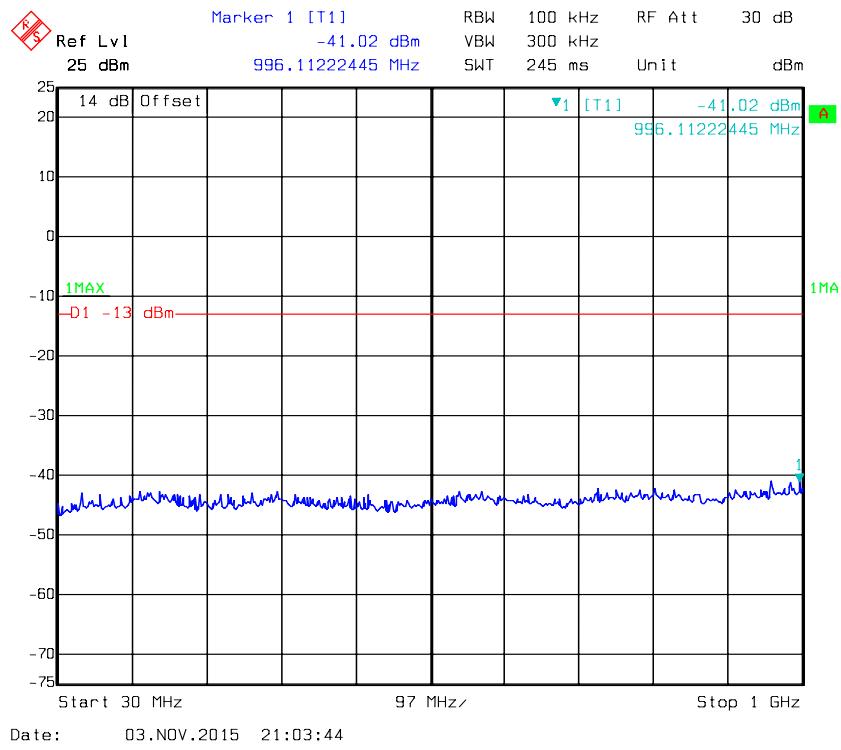
Fundamental

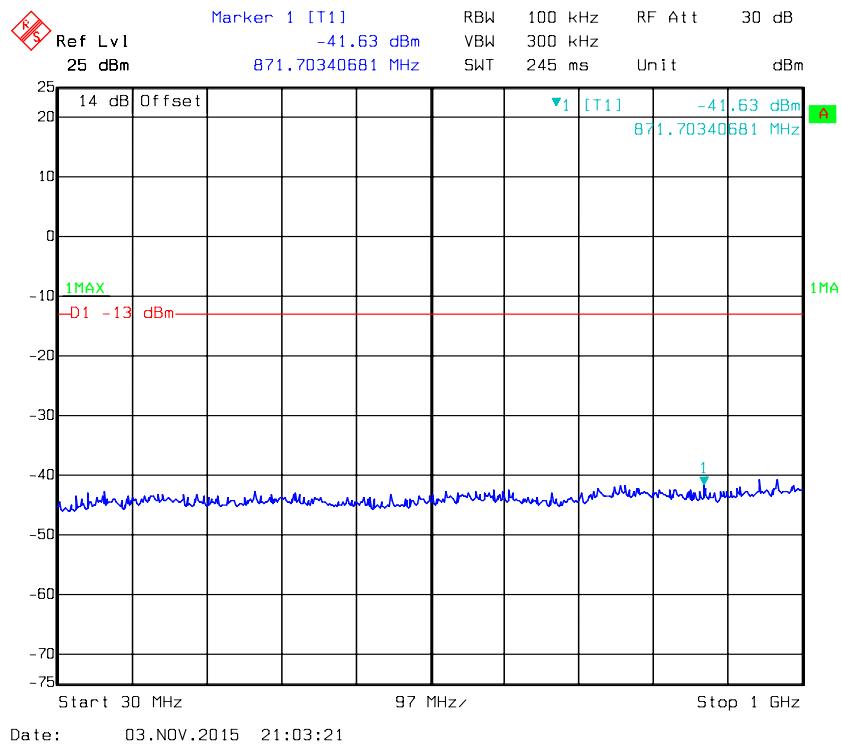


16-QAM, Band 41-5M _ Middle Channel

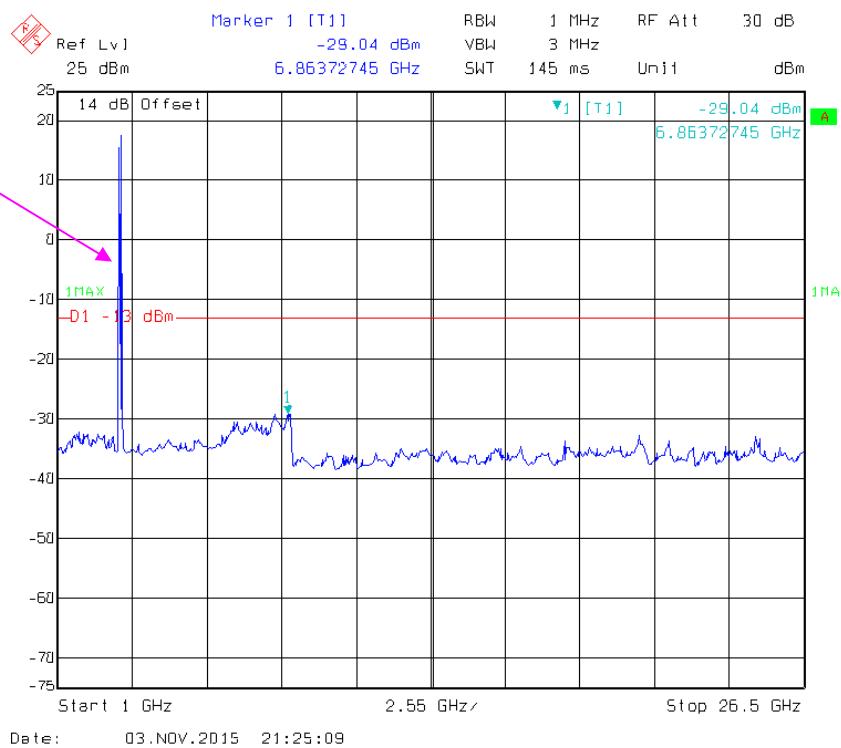
Fundamental

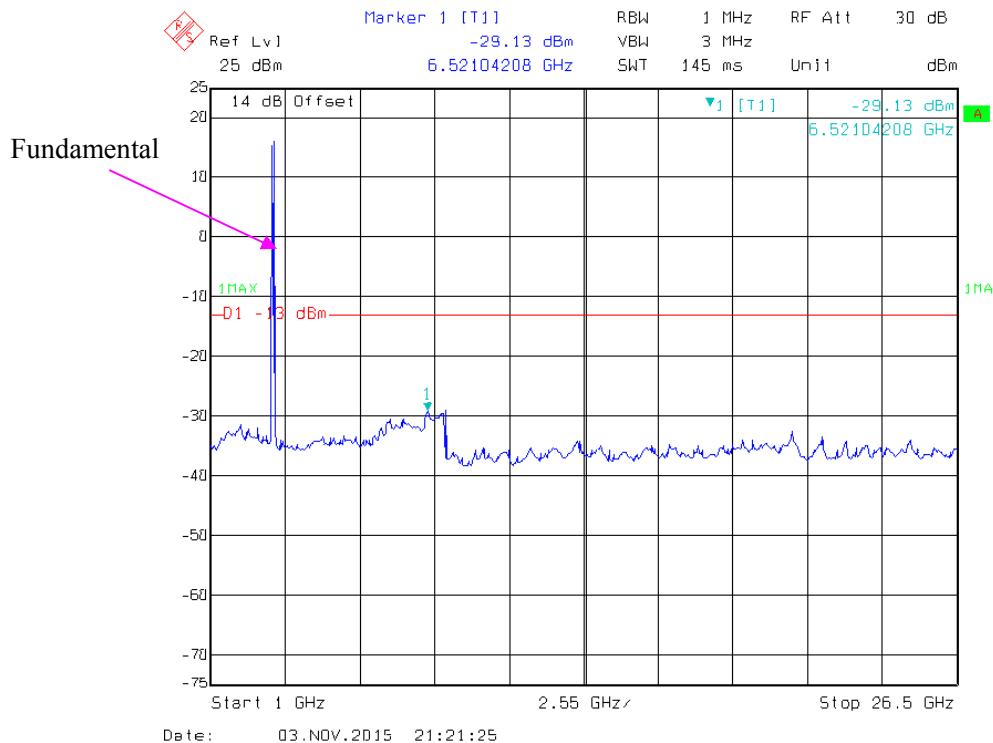
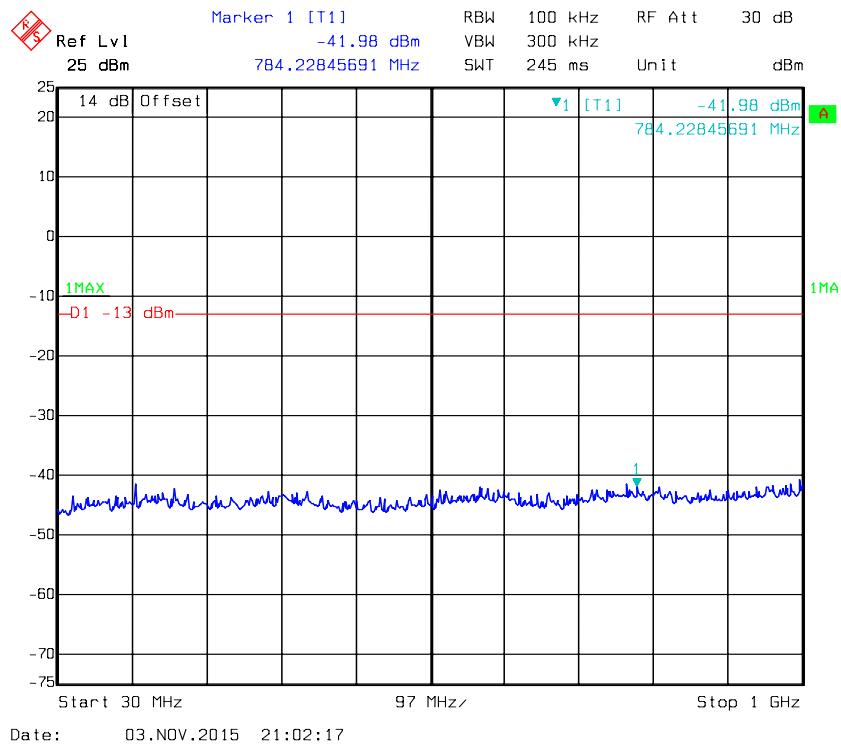


16-QAM, Band 41-10M _ Middle Channel

16-QAM, Band 41-15M _ Middle Channel

Fundamental



16-QAM, Band 41-20M _ Middle Channel

FCC §2.1053, §22.917 & §24.238 & §27.53- SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917, § 24.238 and § 27.53.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \lg (\text{TXpwr in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \log_{10}$ (power out in Watts)

Spurious attenuation limit in dB = $55 + 10 \log_{10}$ (power out in Watts) for band 7

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|----------------|---------------------------|------------|---------------|------------------|----------------------|
| R&S | EMI Test Receiver | ESCI | 100224 | 2015-08-03 | 2016-08-02 |
| Sunol Sciences | Antenna | JB3 | A060611-3 | 2014-11-06 | 2017-11-05 |
| HP | Amplifier | 8447E | 2434A02181 | 2015-09-01 | 2016-09-01 |
| R&S | Spectrum Analyzer | FSEM | 831259/019 | 2015-07-28 | 2016-07-27 |
| ETS LINDGREN | Horn Antenna | 3115 | 9808-5557 | 2015-09-06 | 2018-09-06 |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2015-02-19 | 2016-02-19 |
| Giga | Signal Generator | 1026 | 320408 | 2015-05-09 | 2016-05-09 |
| EMCO | Adjustable Dipole Antenna | 3121C | 9109-753 | N/A | N/A |
| TDK RF | Horn Antenna | HRN-0118 | 130 084 | 2015-09-06 | 2018-09-06 |
| N/A | Coaxial Cable | 14m | N/A | 2015-05-06 | 2016-05-06 |
| N/A | Coaxial Cable | 8m | N/A | 2015-05-06 | 2016-05-06 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

| | |
|---------------------------|----------------|
| Temperature: | 25.5~26.7 °C |
| Relative Humidity: | 48~53 % |
| ATM Pressure: | 99.6~100.3 kPa |

The testing was performed by Dean Liu on 2015-10-30 to 2015-11-04.

EUT Operation Mode: Transmitting

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|--|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| BC0 RC1 Middle Channel (836.52MHz) | | | | | | | | |
| 1673.040 | H | 46.62 | -54.5 | 10.6 | 1.5 | -45.4 | -13.0 | 32.4 |
| 1673.040 | V | 45.70 | -55.7 | 10.6 | 1.5 | -46.6 | -13.0 | 33.6 |
| 2509.560 | H | 40.22 | -57.8 | 13.1 | 2.8 | -47.5 | -13.0 | 34.5 |
| 2509.560 | V | 38.78 | -58.3 | 13.1 | 2.8 | -48.0 | -13.0 | 35.0 |
| 375.000 | H | 43.57 | -54.8 | 0.0 | 0.6 | -55.4 | -13.0 | 42.4 |
| 254.000 | V | 42.23 | -63.5 | 0.0 | 0.5 | -64.0 | -13.0 | 51.0 |
| BC0 RC3 Middle Channel (836.52MHz) | | | | | | | | |
| 1673.040 | H | 46.84 | -54.2 | 10.6 | 1.5 | -45.1 | -13.0 | 32.1 |
| 1673.040 | V | 45.93 | -55.5 | 10.6 | 1.5 | -46.4 | -13.0 | 33.4 |
| 2509.560 | H | 40.51 | -57.5 | 13.1 | 2.8 | -47.2 | -13.0 | 34.2 |
| 2509.560 | V | 39.04 | -58.1 | 13.1 | 2.8 | -47.8 | -13.0 | 34.8 |
| 375.000 | H | 43.86 | -54.5 | 0.0 | 0.6 | -55.1 | -13.0 | 42.1 |
| 254.000 | V | 42.51 | -63.2 | 0.0 | 0.5 | -63.7 | -13.0 | 50.7 |
| BC0 RTAP Middle Channel (836.52MHz) | | | | | | | | |
| 1673.040 | H | 46.33 | -54.7 | 10.6 | 1.5 | -45.6 | -13.0 | 32.6 |
| 1673.040 | V | 45.49 | -55.9 | 10.6 | 1.5 | -46.8 | -13.0 | 33.8 |
| 2509.560 | H | 40.02 | -58 | 13.1 | 2.8 | -47.7 | -13.0 | 34.7 |
| 2509.560 | V | 38.48 | -58.6 | 13.1 | 2.8 | -48.3 | -13.0 | 35.3 |
| 375.000 | H | 43.30 | -55.1 | 0.0 | 0.6 | -55.7 | -13.0 | 42.7 |
| 254.000 | V | 41.96 | -63.8 | 0.0 | 0.5 | -64.3 | -13.0 | 51.3 |

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|--|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| BC1 RC1 Middle Channel (1880MHz) | | | | | | | | |
| 3760.000 | H | 42.16 | -52.1 | 13.8 | 2.9 | -41.2 | -13.0 | 28.2 |
| 3760.000 | V | 40.11 | -53 | 13.8 | 2.9 | -42.1 | -13.0 | 29.1 |
| 5640.000 | H | 43.56 | -48.1 | 14.0 | 2.1 | -36.2 | -13.0 | 23.2 |
| 5640.000 | V | 41.48 | -50.2 | 14.0 | 2.1 | -38.3 | -13.0 | 25.3 |
| 375.000 | H | 38.23 | -60.2 | 0.0 | 0.6 | -60.8 | -13.0 | 47.8 |
| 254.000 | V | 37.18 | -68.5 | 0.0 | 0.5 | -69.0 | -13.0 | 56.0 |
| BC1 RC3 Middle Channel (1880MHz) | | | | | | | | |
| 3760.000 | H | 42.45 | -51.8 | 13.8 | 2.9 | -40.9 | -13.0 | 27.9 |
| 3760.000 | V | 40.35 | -52.7 | 13.8 | 2.9 | -41.8 | -13.0 | 28.8 |
| 5640.000 | H | 43.76 | -47.9 | 14.0 | 2.1 | -36.0 | -13.0 | 23.0 |
| 5640.000 | V | 41.73 | -49.9 | 14.0 | 2.1 | -38.0 | -13.0 | 25.0 |
| 375.000 | H | 38.52 | -59.9 | 0.0 | 0.6 | -60.5 | -13.0 | 47.5 |
| 254.000 | V | 37.39 | -68.3 | 0.0 | 0.5 | -68.8 | -13.0 | 55.8 |
| BC1 RTAP Middle Channel (1880MHz) | | | | | | | | |
| 3760.000 | H | 41.89 | -52.4 | 13.8 | 2.9 | -41.5 | -13.0 | 28.5 |
| 3760.000 | V | 39.85 | -53.2 | 13.8 | 2.9 | -42.3 | -13.0 | 29.3 |
| 5640.000 | H | 43.34 | -48.4 | 14.0 | 2.1 | -36.5 | -13.0 | 23.5 |
| 5640.000 | V | 41.26 | -50.4 | 14.0 | 2.1 | -38.5 | -13.0 | 25.5 |
| 375.000 | H | 38.03 | -60.4 | 0.0 | 0.6 | -61.0 | -13.0 | 48.0 |
| 254.000 | V | 36.89 | -68.8 | 0.0 | 0.5 | -69.3 | -13.0 | 56.3 |

Cellular Band (PART 22H)**30 MHz-10 GHz:**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|----------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| Frequency: 836.6 MHz | | | | | | | | |
| 1673.200 | H | 56.26 | -44.8 | 10.6 | 1.5 | -35.7 | -13.0 | 22.7 |
| 1673.200 | V | 53.43 | -47.9 | 10.6 | 1.5 | -38.8 | -13.0 | 25.8 |
| 2509.800 | H | 42.36 | -55.7 | 13.1 | 2.8 | -45.4 | -13.0 | 32.4 |
| 2509.800 | V | 40.73 | -56.4 | 13.1 | 2.8 | -46.1 | -13.0 | 33.1 |
| 375.000 | H | 45.36 | -53 | 0.0 | 0.6 | -53.6 | -13.0 | 40.6 |
| 254.000 | V | 44.17 | -61.5 | 0.0 | 0.5 | -62.0 | -13.0 | 49.0 |

WCDMA Band V

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|----------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| Frequency: 836.6 MHz | | | | | | | | |
| 1673.200 | H | 44.11 | -57 | 10.6 | 1.5 | -47.9 | -13.0 | 34.9 |
| 1673.200 | V | 42.64 | -58.7 | 10.6 | 1.5 | -49.6 | -13.0 | 36.6 |
| 375.000 | H | 38.39 | -60 | 0.0 | 0.6 | -60.6 | -13.0 | 47.6 |
| 254.000 | V | 37.22 | -68.5 | 0.0 | 0.5 | -69.0 | -13.0 | 56.0 |

PCS Band (PART 24E)**30 MHz-20 GHz:**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| Frequency: 1880 MHz | | | | | | | | |
| 3760.000 | H | 38.39 | -55.9 | 13.8 | 2.9 | -45.0 | -13.0 | 32.0 |
| 3760.000 | V | 36.65 | -56.4 | 13.8 | 2.9 | -45.5 | -13.0 | 32.5 |
| 375.000 | H | 43.57 | -54.8 | 0.0 | 0.6 | -55.4 | -13.0 | 42.4 |
| 254.000 | V | 42.23 | -63.5 | 0.0 | 0.5 | -64.0 | -13.0 | 51.0 |

WCDMA Band II

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| Frequency: 1880 MHz | | | | | | | | |
| 3760.000 | H | 36.27 | -58 | 13.8 | 2.9 | -47.1 | -13.0 | 34.1 |
| 3760.000 | V | 34.25 | -58.8 | 13.8 | 2.9 | -47.9 | -13.0 | 34.9 |
| 375.000 | H | 38.84 | -59.6 | 0.0 | 0.6 | -60.2 | -13.0 | 47.2 |
| 254.000 | V | 37.51 | -68.2 | 0.0 | 0.5 | -68.7 | -13.0 | 55.7 |

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

PART 27**LTE Band 2**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| QPSK, Frequency: 1880 MHz | | | | | | | | |
| 3760.000 | H | 34.21 | -60.1 | 13.8 | 2.9 | -49.2 | -13.0 | 36.2 |
| 3760.000 | V | 33.74 | -59.3 | 13.8 | 2.9 | -48.4 | -13.0 | 35.4 |
| 5640.000 | H | 34.36 | -57.3 | 14.0 | 2.1 | -45.4 | -13.0 | 32.4 |
| 5640.000 | V | 33.45 | -58.2 | 14.0 | 2.1 | -46.3 | -13.0 | 33.3 |
| 375.000 | H | 35.25 | -63.1 | 0.0 | 0.6 | -63.7 | -13.0 | 50.7 |
| 254.000 | V | 34.26 | -71.5 | 0.0 | 0.5 | -72.0 | -13.0 | 59.0 |
| 16-QAM, Frequency: 1880 MHz | | | | | | | | |
| 3760.000 | H | 33.89 | -60.4 | 13.8 | 2.9 | -49.5 | -13.0 | 36.5 |
| 3760.000 | V | 33.55 | -59.5 | 13.8 | 2.9 | -48.6 | -13.0 | 35.6 |
| 5640.000 | H | 34.03 | -57.7 | 14.0 | 2.1 | -45.8 | -13.0 | 32.8 |
| 5640.000 | V | 33.14 | -58.5 | 14.0 | 2.1 | -46.6 | -13.0 | 33.6 |
| 375.000 | H | 35.02 | -63.4 | 0.0 | 0.6 | -64.0 | -13.0 | 51.0 |
| 254.000 | V | 34.28 | -71.4 | 0.0 | 0.5 | -71.9 | -13.0 | 58.9 |

LTE Band 4

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| QPSK, Frequency: 1732.5 MHz | | | | | | | | |
| 3465.000 | H | 33.44 | -63.5 | 13.9 | 1.9 | -51.5 | -13.0 | 38.5 |
| 3465.000 | V | 34.47 | -61.7 | 13.9 | 1.9 | -49.7 | -13.0 | 36.7 |
| 5197.500 | H | 32.42 | -58.6 | 14.0 | 2.3 | -46.9 | -13.0 | 33.9 |
| 5197.500 | V | 33.18 | -59.4 | 14.0 | 2.3 | -47.7 | -13.0 | 34.7 |
| 375.000 | H | 35.64 | -62.8 | 0.0 | 0.6 | -63.4 | -13.0 | 50.4 |
| 254.000 | V | 34.28 | -71.4 | 0.0 | 0.5 | -71.9 | -13.0 | 58.9 |
| 16-QAM, Frequency: 1732.5 MHz | | | | | | | | |
| 3465.000 | H | 33.17 | -63.8 | 13.9 | 1.9 | -51.8 | -13.0 | 38.8 |
| 3465.000 | V | 34.22 | -61.9 | 13.9 | 1.9 | -49.9 | -13.0 | 36.9 |
| 5197.500 | H | 32.25 | -58.8 | 14.0 | 2.3 | -47.1 | -13.0 | 34.1 |
| 5197.500 | V | 33.09 | -59.4 | 14.0 | 2.3 | -47.7 | -13.0 | 34.7 |
| 375.000 | H | 35.08 | -63.3 | 0.0 | 0.6 | -63.9 | -13.0 | 50.9 |
| 254.000 | V | 34.26 | -71.5 | 0.0 | 0.5 | -72.0 | -13.0 | 59.0 |

LTE Band 12

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|------------------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| QPSK, Frequency: 707.5 MHz | | | | | | | | |
| 1415.000 | H | 43.64 | -57.2 | 9.0 | 1.3 | -49.5 | -13.0 | 36.5 |
| 1415.000 | V | 44.99 | -55.6 | 9.0 | 1.3 | -47.9 | -13.0 | 34.9 |
| 2122.500 | H | 34.31 | -61.7 | 11.2 | 1.4 | -51.9 | -13.0 | 38.9 |
| 2122.500 | V | 36.52 | -58.2 | 11.2 | 1.4 | -48.4 | -13.0 | 35.4 |
| 375.000 | H | 35.69 | -62.7 | 0.0 | 0.6 | -63.3 | -13.0 | 50.3 |
| 254.000 | V | 34.76 | -71 | 0.0 | 0.5 | -71.5 | -13.0 | 58.5 |
| 16-QAM, Frequency: 707.5 MHz | | | | | | | | |
| 1415.000 | H | 43.45 | -57.4 | 9.0 | 1.3 | -49.7 | -13.0 | 36.7 |
| 1415.000 | V | 44.97 | -55.6 | 9.0 | 1.3 | -47.9 | -13.0 | 34.9 |
| 2122.500 | H | 34.03 | -61.9 | 11.2 | 1.4 | -52.1 | -13.0 | 39.1 |
| 2122.500 | V | 36.34 | -58.3 | 11.2 | 1.4 | -48.5 | -13.0 | 35.5 |
| 375.000 | H | 34.86 | -63.5 | 0.0 | 0.6 | -64.1 | -13.0 | 51.1 |
| 254.000 | V | 34.28 | -71.4 | 0.0 | 0.5 | -71.9 | -13.0 | 58.9 |

LTE Band 17

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|--------------------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| QPSK, Frequency: 710.000 MHz | | | | | | | | |
| 1420.000 | H | 42.21 | -58.7 | 9.1 | 1.3 | -50.9 | -13.0 | 37.9 |
| 1420.000 | V | 40.92 | -59.7 | 9.1 | 1.3 | -51.9 | -13.0 | 38.9 |
| 2130.000 | H | 36.52 | -59.4 | 11.2 | 1.4 | -49.6 | -13.0 | 36.6 |
| 2130.000 | V | 35.07 | -59.7 | 11.2 | 1.4 | -49.9 | -13.0 | 36.9 |
| 375.000 | H | 34.87 | -63.5 | 0.0 | 0.6 | -64.1 | -13.0 | 51.1 |
| 254.000 | V | 34.05 | -71.7 | 0.0 | 0.5 | -72.2 | -13.0 | 59.2 |
| 16-QAM, Frequency: 710.000 MHz | | | | | | | | |
| 1420.000 | H | 41.06 | -59.8 | 9.1 | 1.3 | -52.0 | -13.0 | 39.0 |
| 1420.000 | V | 39.14 | -61.5 | 9.1 | 1.3 | -53.7 | -13.0 | 40.7 |
| 2130.000 | H | 35.98 | -60 | 11.2 | 1.4 | -50.2 | -13.0 | 37.2 |
| 2130.000 | V | 34.66 | -60.1 | 11.2 | 1.4 | -50.3 | -13.0 | 37.3 |
| 375.000 | H | 34.69 | -63.7 | 0.0 | 0.6 | -64.3 | -13.0 | 51.3 |
| 254.000 | V | 33.55 | -72.2 | 0.0 | 0.5 | -72.7 | -13.0 | 59.7 |

LTE Band 41

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dB μ V) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---------------------------------|----------------|-------------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| | | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| QPSK, Frequency: 2605.000 MHz | | | | | | | | |
| 5210.000 | H | 34.63 | -56.5 | 14.0 | 2.3 | -44.8 | -13.0 | 31.8 |
| 5210.000 | V | 33.89 | -58.7 | 14.0 | 2.3 | -47.0 | -13.0 | 34.0 |
| 7815.000 | H | 34.75 | -52.4 | 13.3 | 3.6 | -42.7 | -13.0 | 29.7 |
| 7815.000 | V | 33.39 | -54.2 | 13.3 | 3.6 | -44.5 | -13.0 | 31.5 |
| 375.000 | H | 35.39 | -63 | 0.0 | 0.6 | -63.6 | -13.0 | 50.6 |
| 254.000 | V | 34.47 | -71.2 | 0.0 | 0.5 | -71.7 | -13.0 | 58.7 |
| 16-QAM, Frequency: 2605.000 MHz | | | | | | | | |
| 5210.000 | H | 34.48 | -56.6 | 14.0 | 2.3 | -44.9 | -13.0 | 31.9 |
| 5210.000 | V | 33.67 | -58.9 | 14.0 | 2.3 | -47.2 | -13.0 | 34.2 |
| 7815.000 | H | 34.35 | -52.8 | 13.3 | 3.6 | -43.1 | -13.0 | 30.1 |
| 7815.000 | V | 33.02 | -54.6 | 13.3 | 3.6 | -44.9 | -13.0 | 31.9 |
| 375.000 | H | 35.22 | -63.2 | 0.0 | 0.6 | -63.8 | -13.0 | 50.8 |
| 254.000 | V | 34.02 | -71.7 | 0.0 | 0.5 | -72.2 | -13.0 | 59.2 |

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

FCC §22.917(a) & §24.238(a) & §27.53(g)§27.53(h) §27.53(m) - BAND EDGES**Applicable Standard**

According to § 22.917(a), the power of any emissions 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.

According to §24.238(a), the power of any emissions 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.

According to §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. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

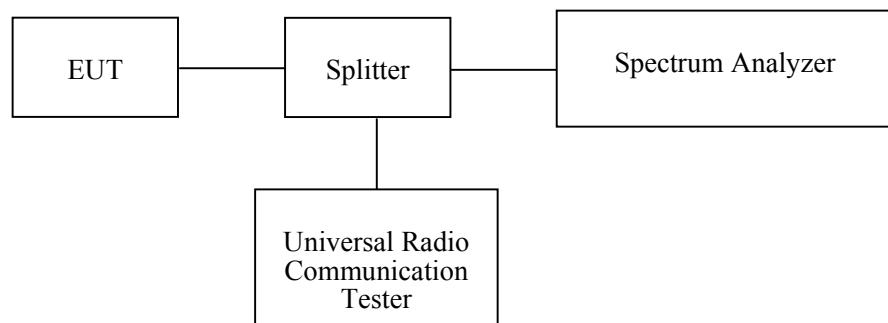
According to §27.53 (h), AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

According to §27.53 (m), (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.



Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------------------------|-------------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2015-05-09 | 2016-05-09 |
| R&S | Universal Radio Communication Tester | CMU200 | 109038 | 2015-05-09 | 2016-05-09 |
| R&S | Wideband Radio Communication Tester | CMW500 | 106891 | 2014-11-23 | 2015-11-23 |
| N/A | Coaxial Cable | 0.1m | N/A | 2015-05-06 | 2016-05-06 |
| E-Microwave | DC Blocking | EMDCB-00036 | OE01201047 | 2015-05-06 | 2016-05-06 |
| E-Microwave | Attenuator(10dB) | EMCA10-5RN | OE01203239 | 2015-05-08 | 2016-05-08 |
| Pasternack | RF Coaxial Cable | RF-01 | N/A | 2015-05-06 | 2016-05-06 |
| Pasternack | RF Coaxial Cable | RF-02 | N/A | 2015-05-06 | 2016-05-06 |
| N/A | Two-way Splitter | ODP-1-6-2S | OE0120142 | 2015-05-06 | 2016-05-06 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

Test Data

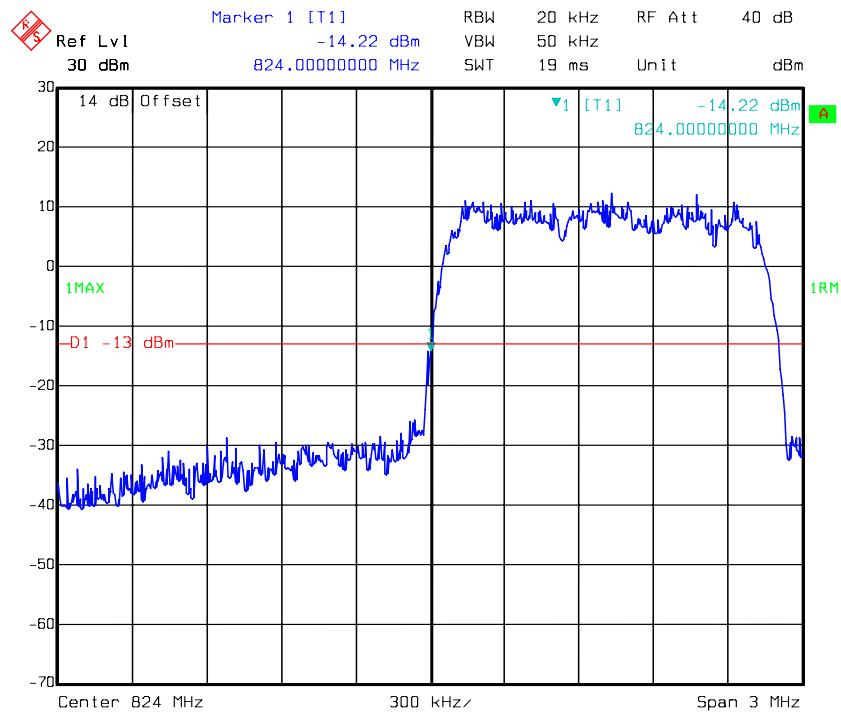
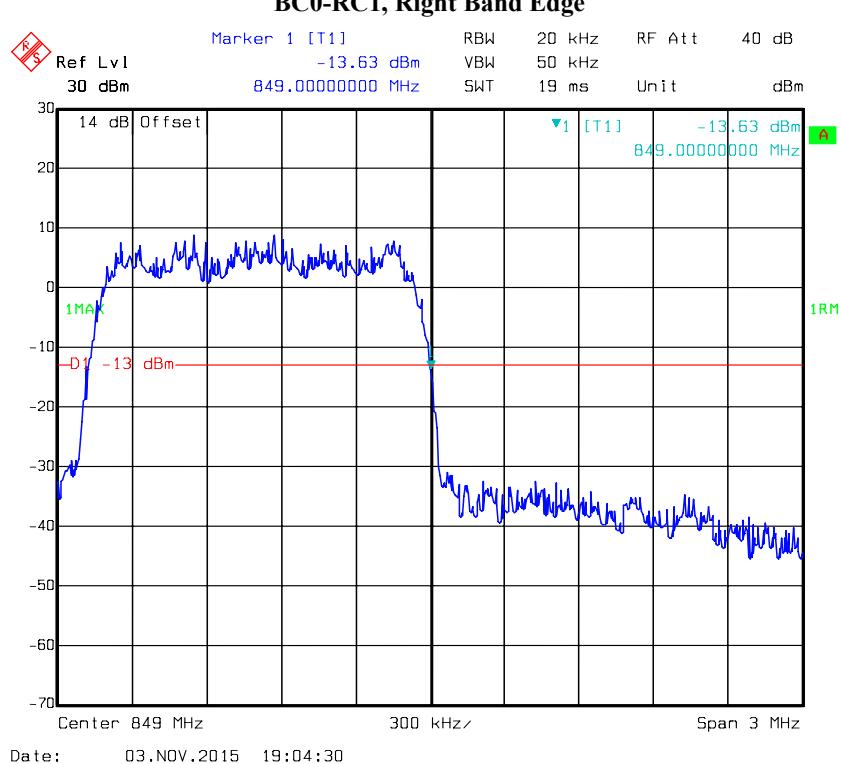
Environmental Conditions

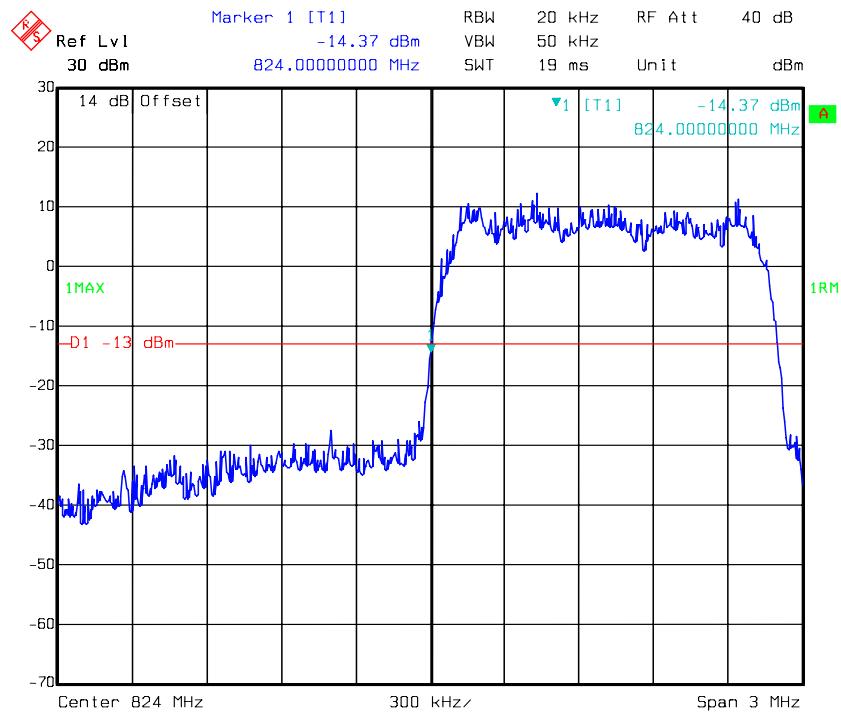
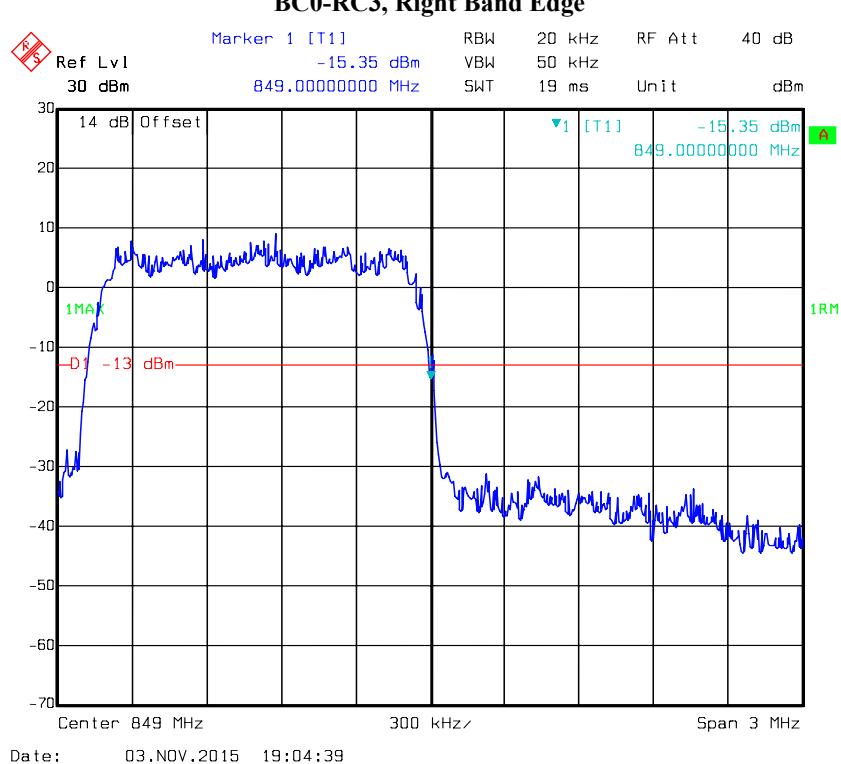
| | |
|--------------------|-----------------|
| Temperature: | 26.3~26.9 °C |
| Relative Humidity: | 50~54 % |
| ATM Pressure: | 100.1~100.4 kPa |

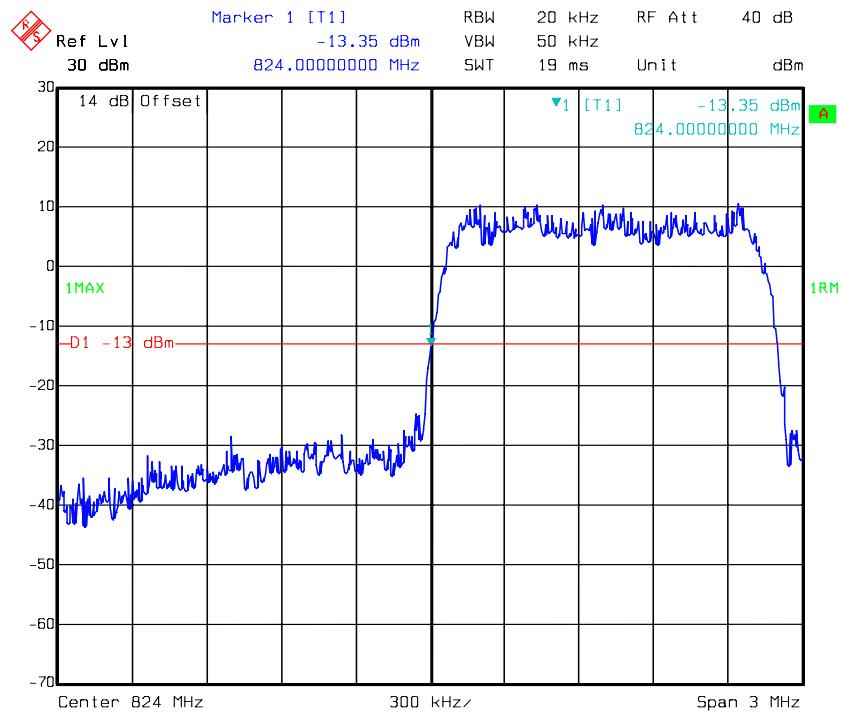
The testing was performed by Dean Liu from 2015-10-27 to 2015-11-03.

Test Mode: Transmitting

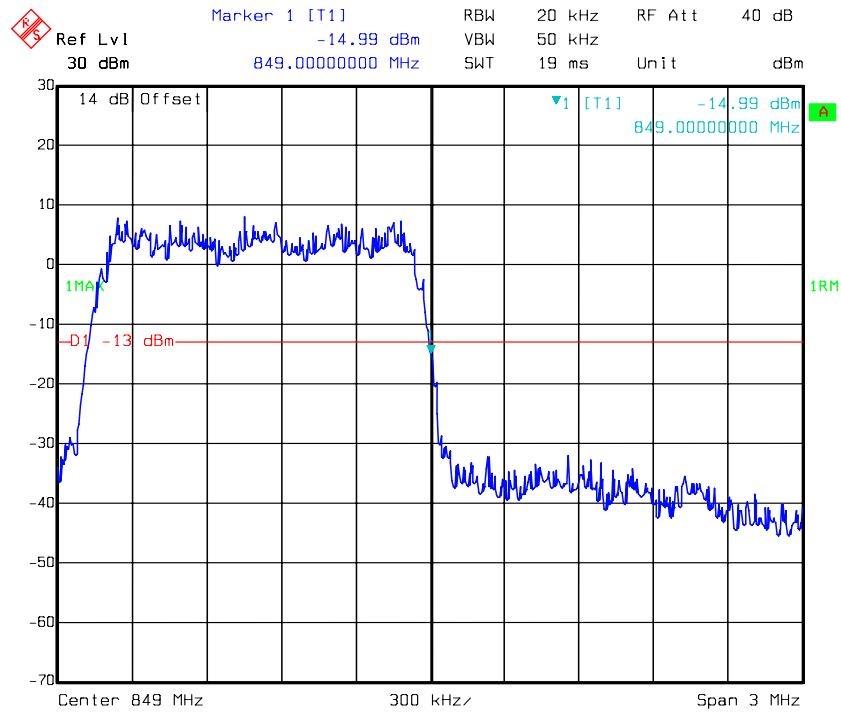
Test Result: Compliance. Please refer to the following plots.

BC0-RC1, Left Band Edge**BC0-RC1, Right Band Edge**

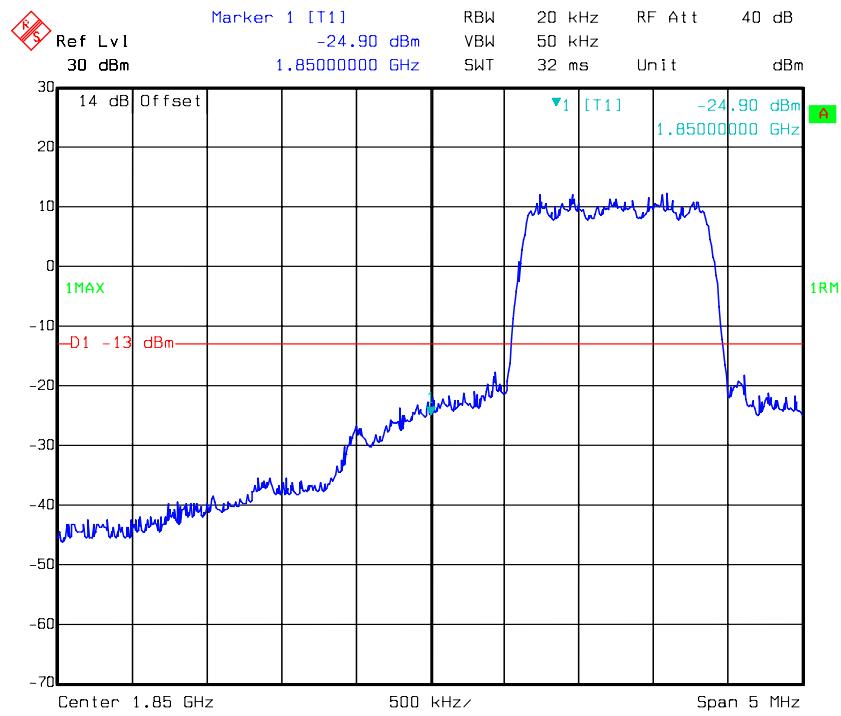
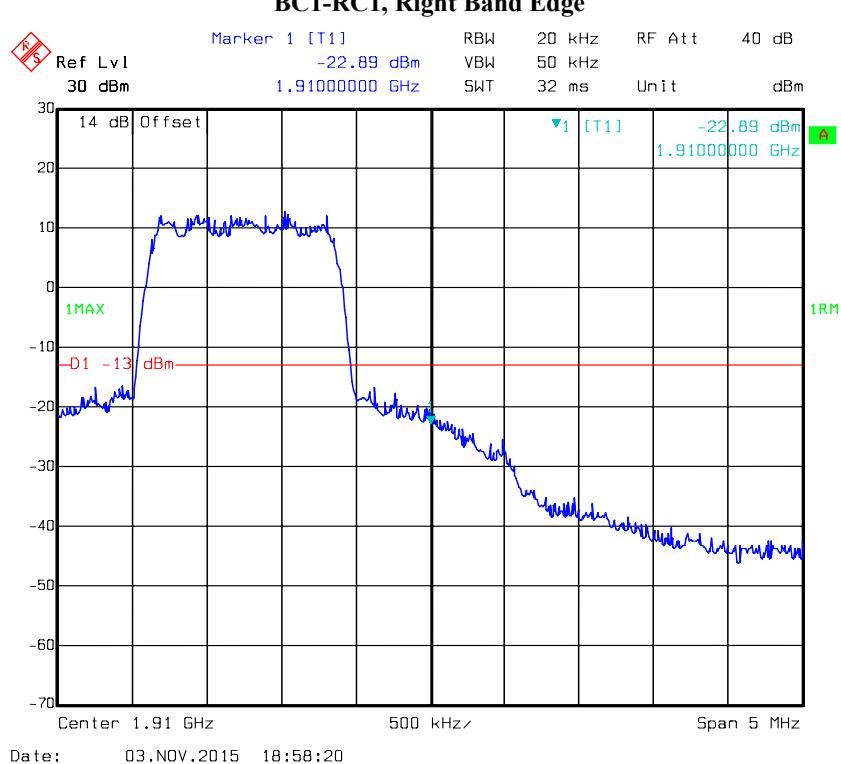
BC0-RC3, Left Band Edge**BC0-RC3, Right Band Edge**

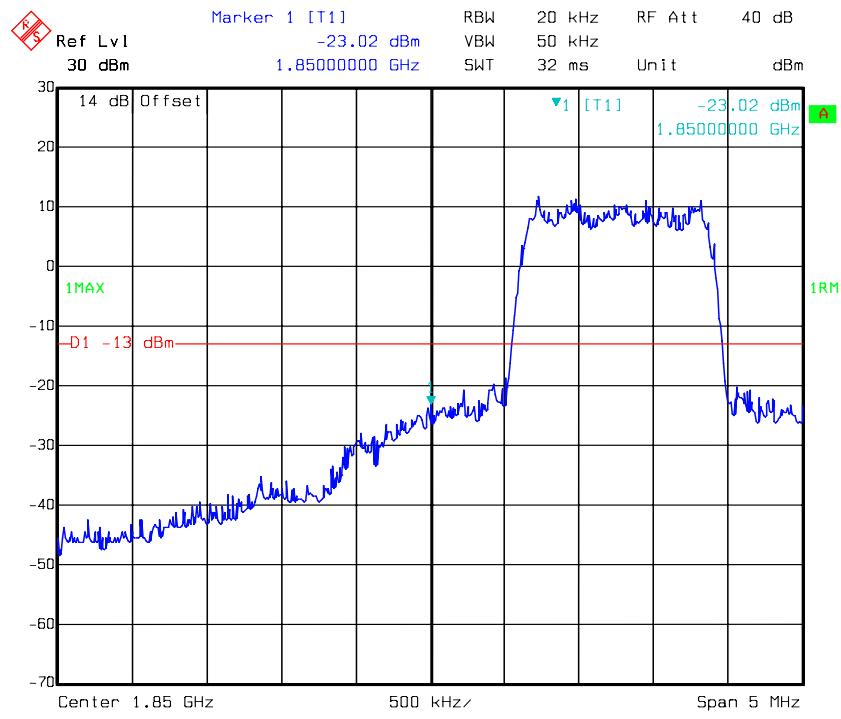
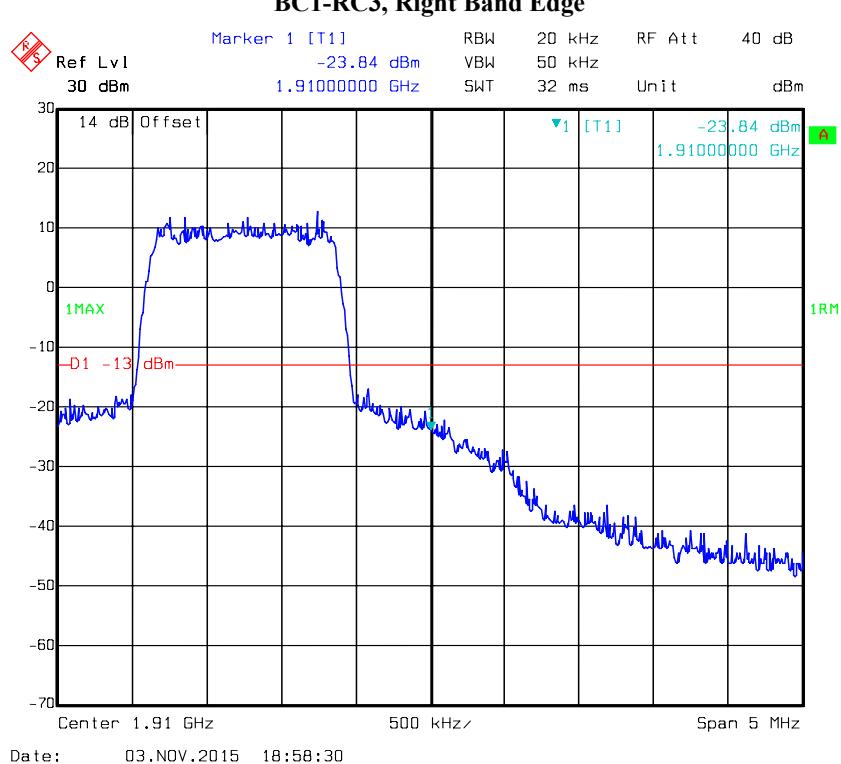
BC0-RTAP, Left Band Edge

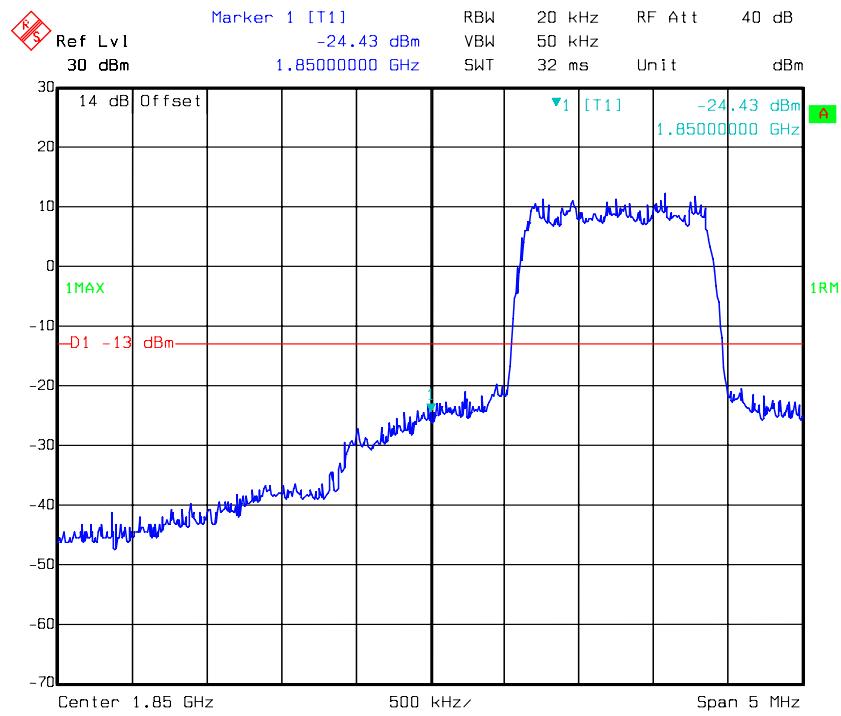
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BC0-RTAP, Right Band Edge

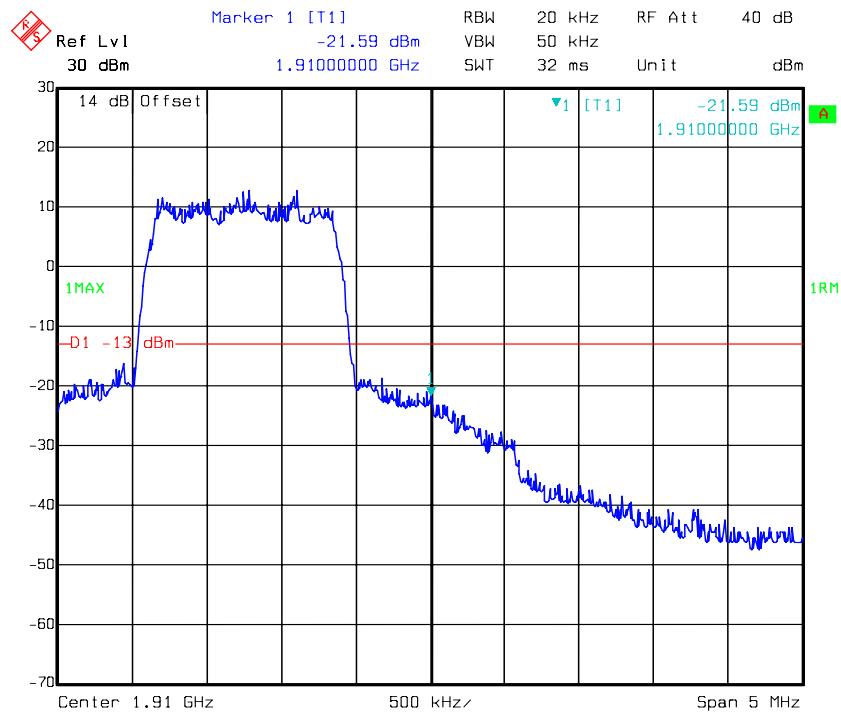
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BC1-RC1, Left Band Edge**BC1-RC1, Right Band Edge**

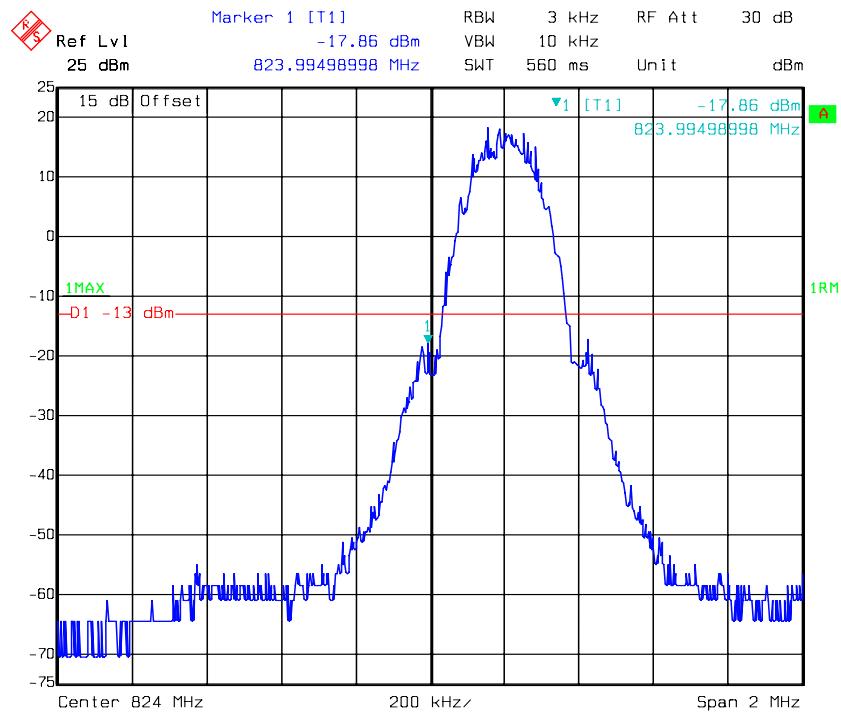
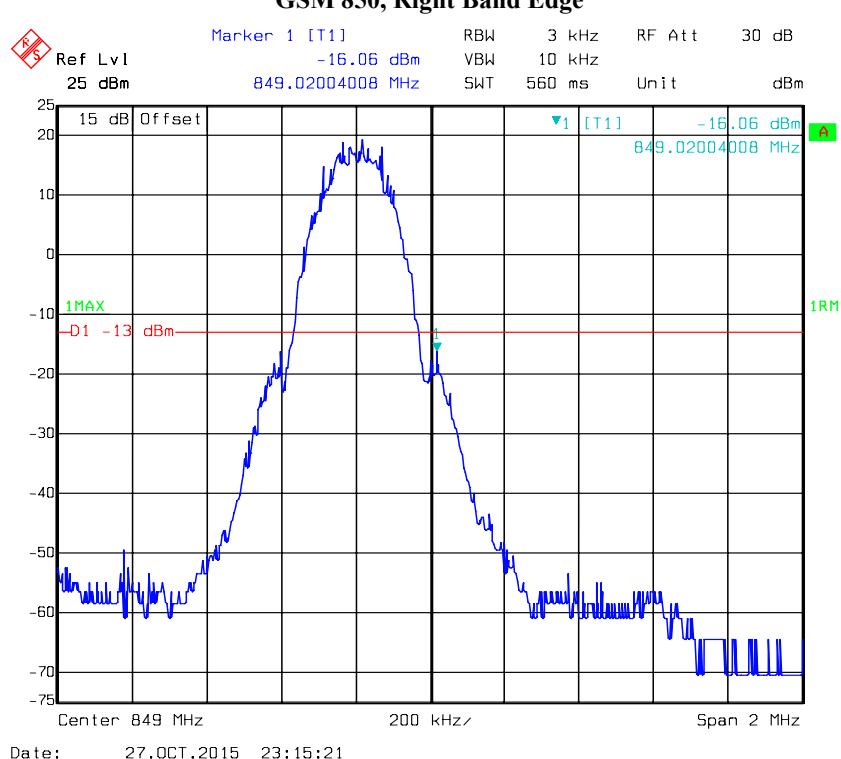
BC1-RC3, Left Band Edge**BC1-RC3, Right Band Edge**

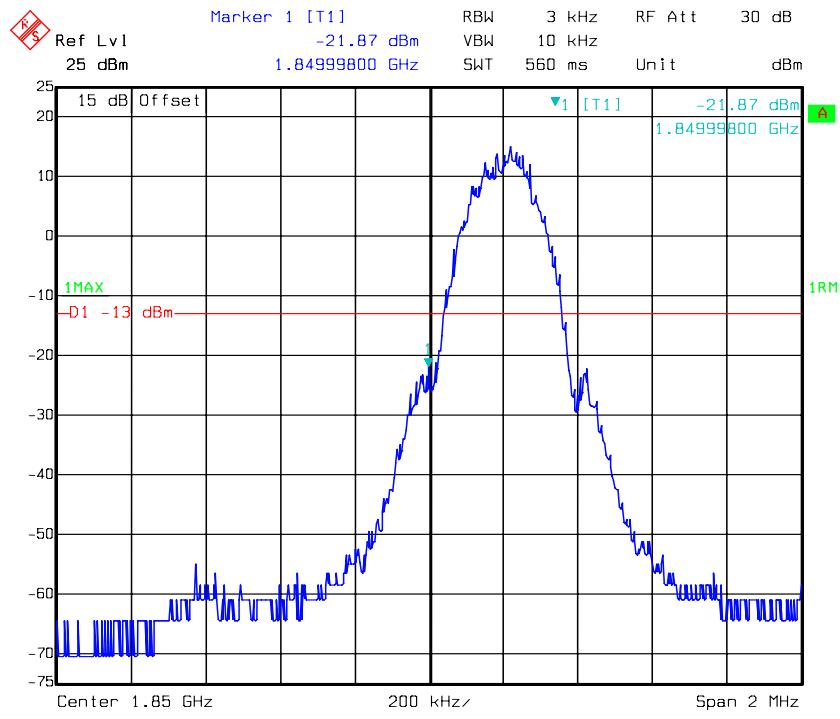
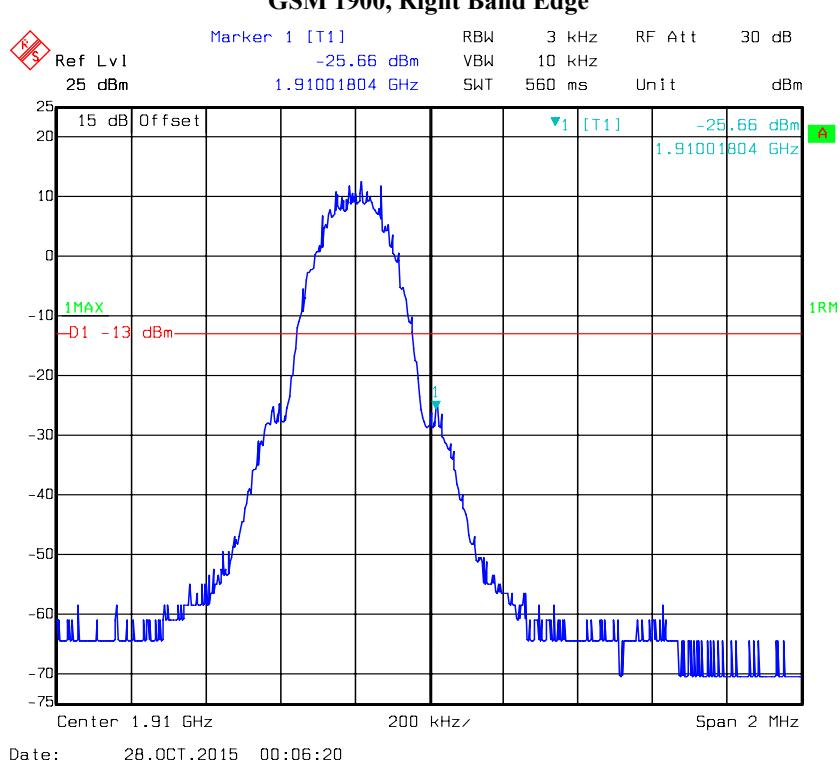
BC1-Rel.A, Left Band Edge

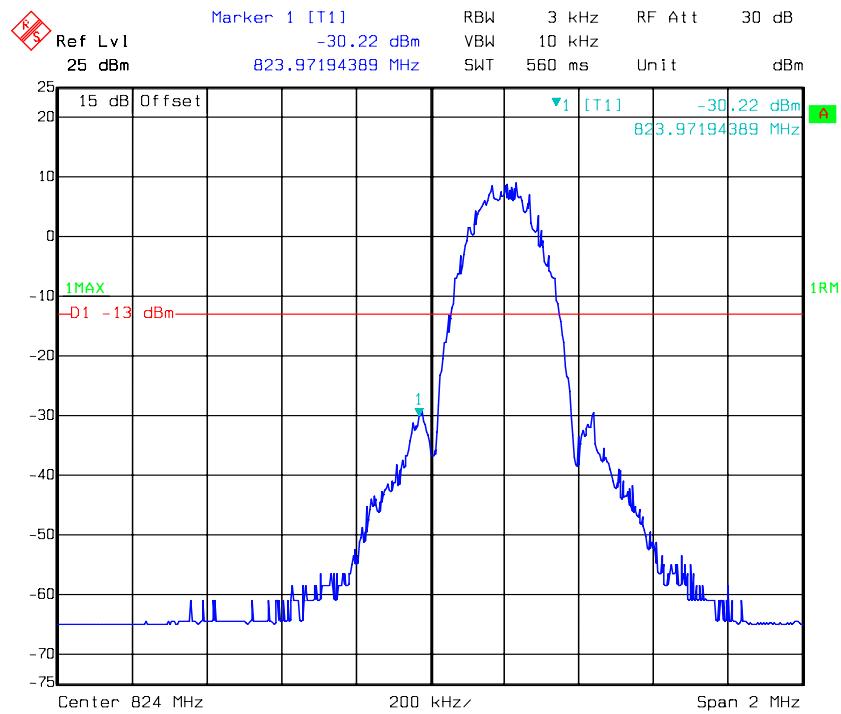
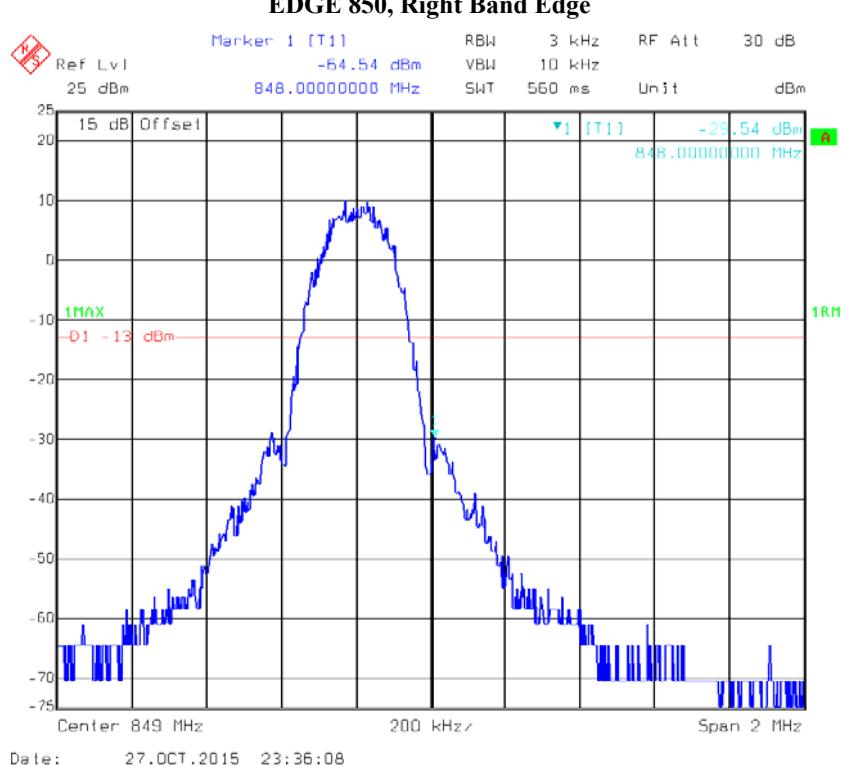
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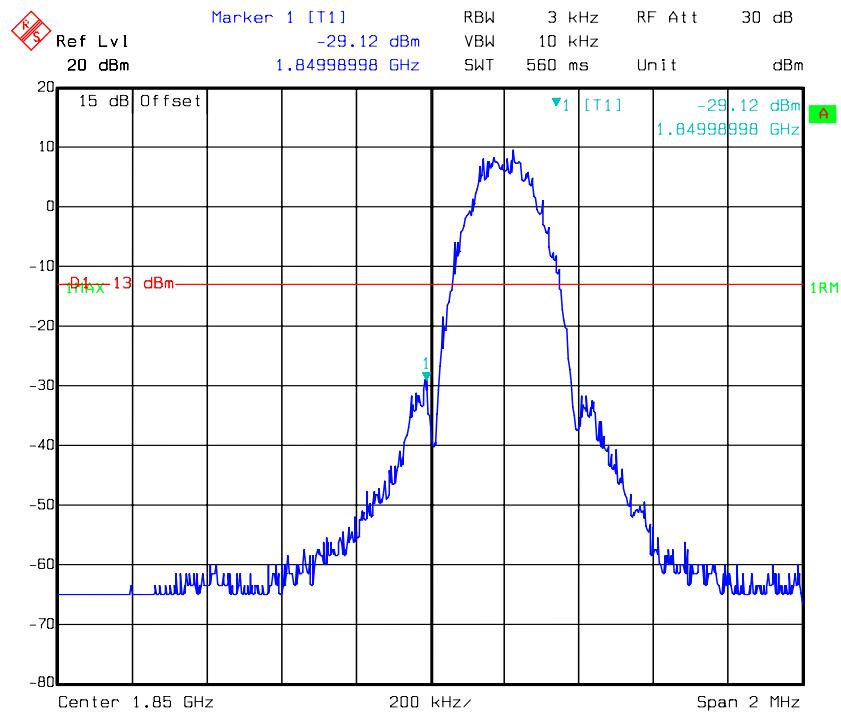
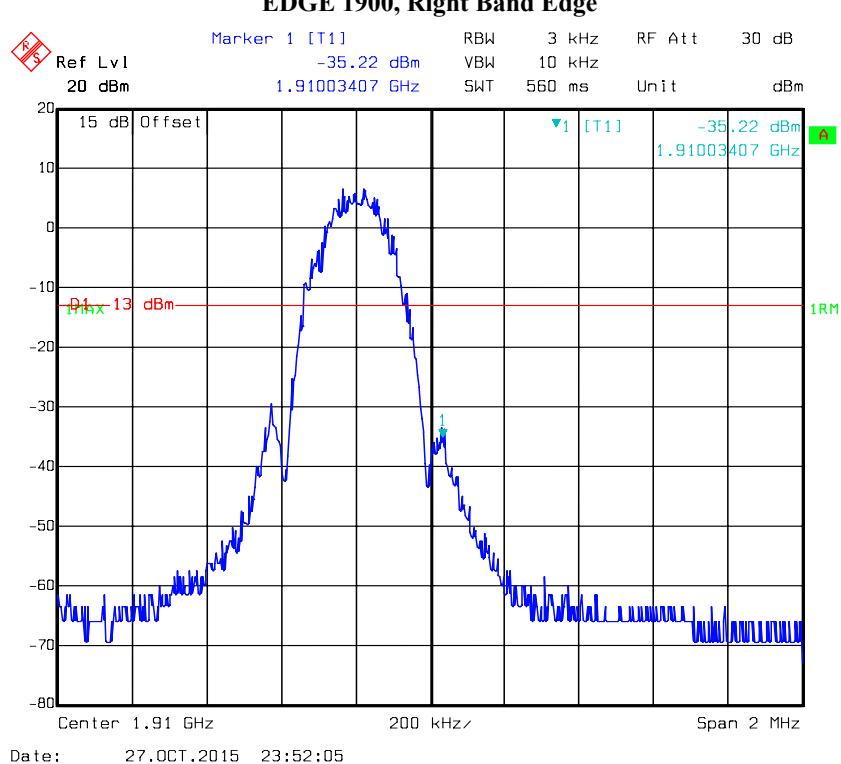
BC1-Rel.A, Right Band Edge

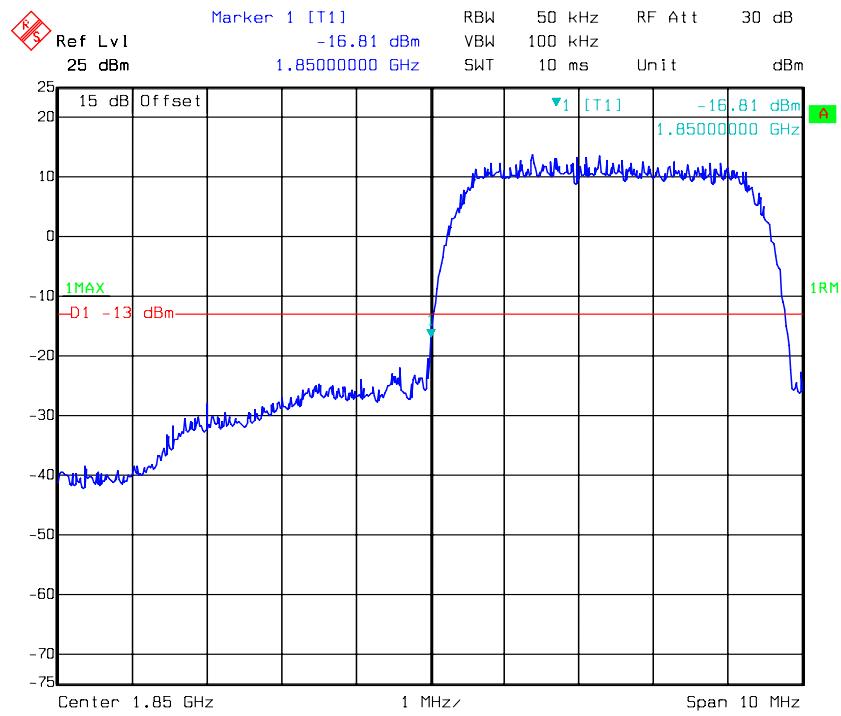
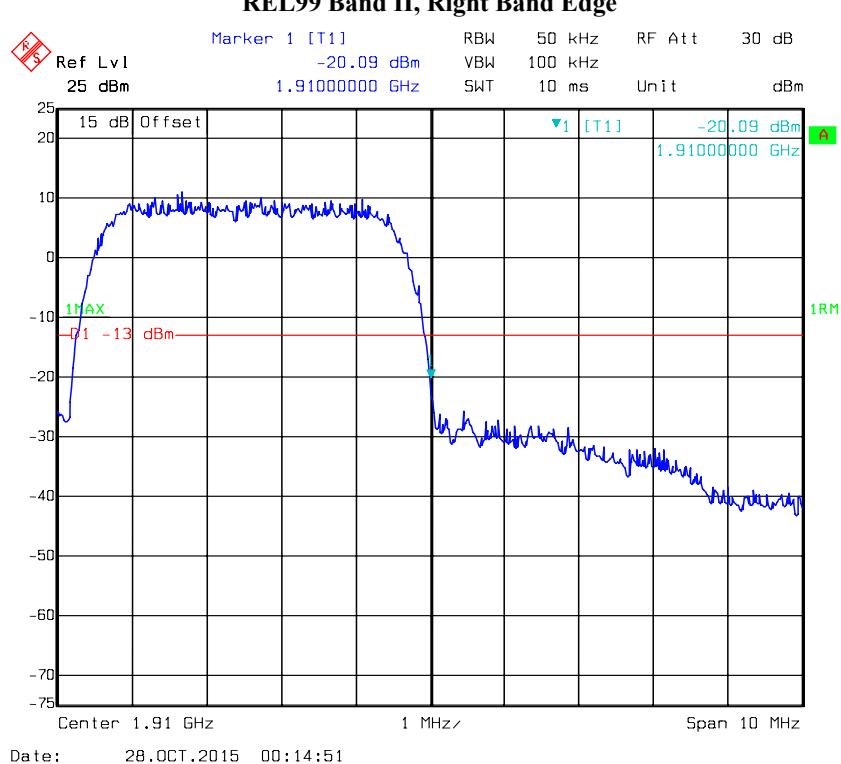
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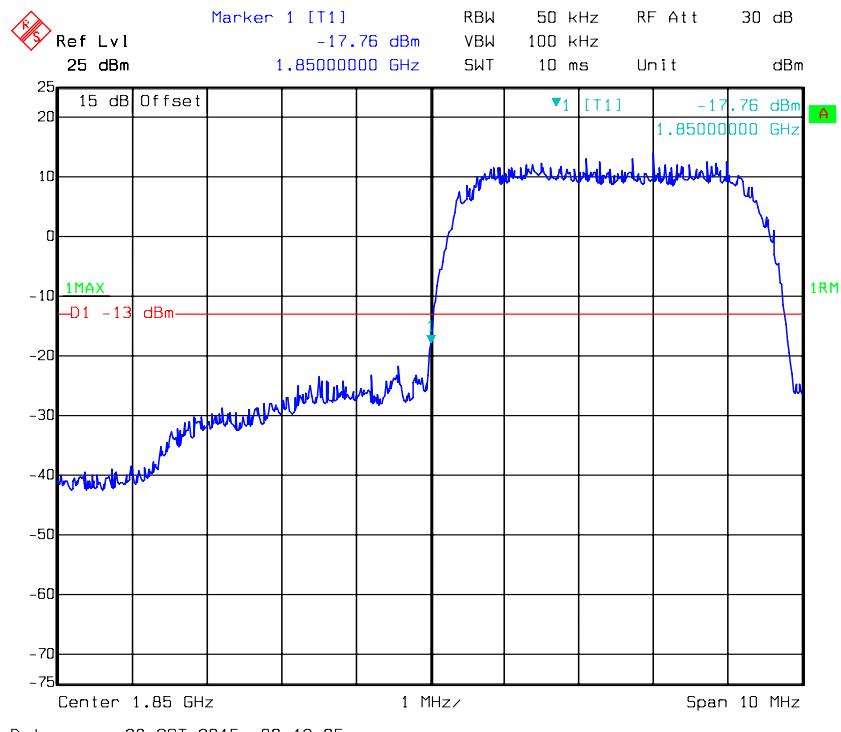
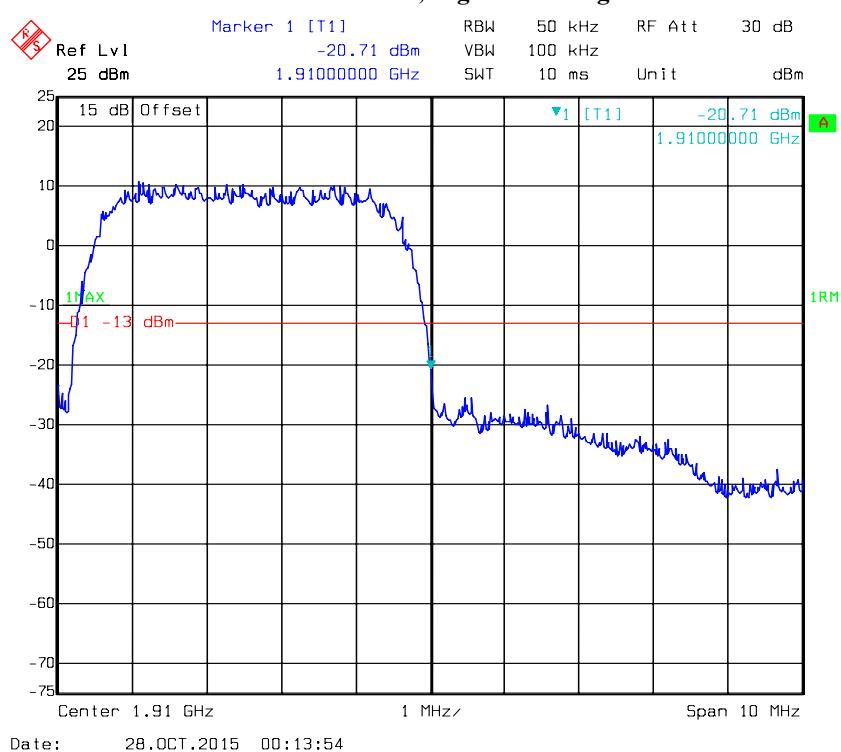
GSM 850, Left Band Edge**GSM 850, Right Band Edge**

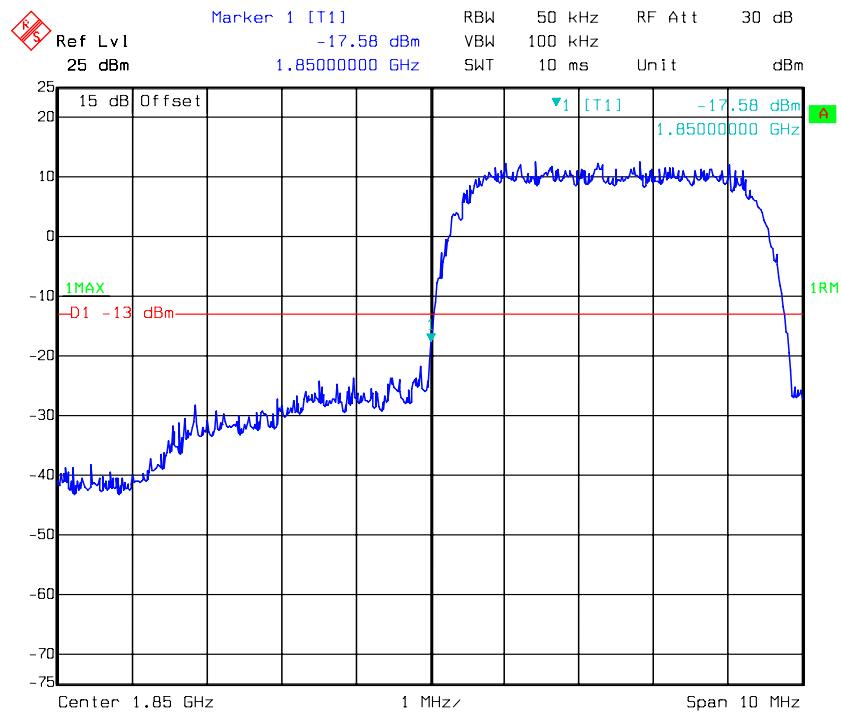
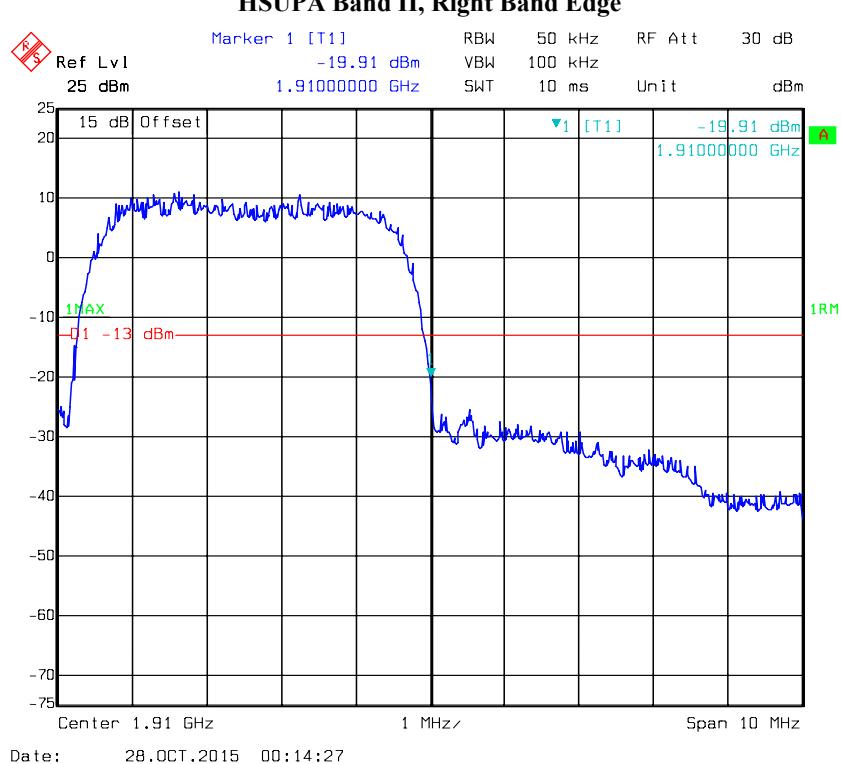
GSM 1900, Left Band Edge**GSM 1900, Right Band Edge**

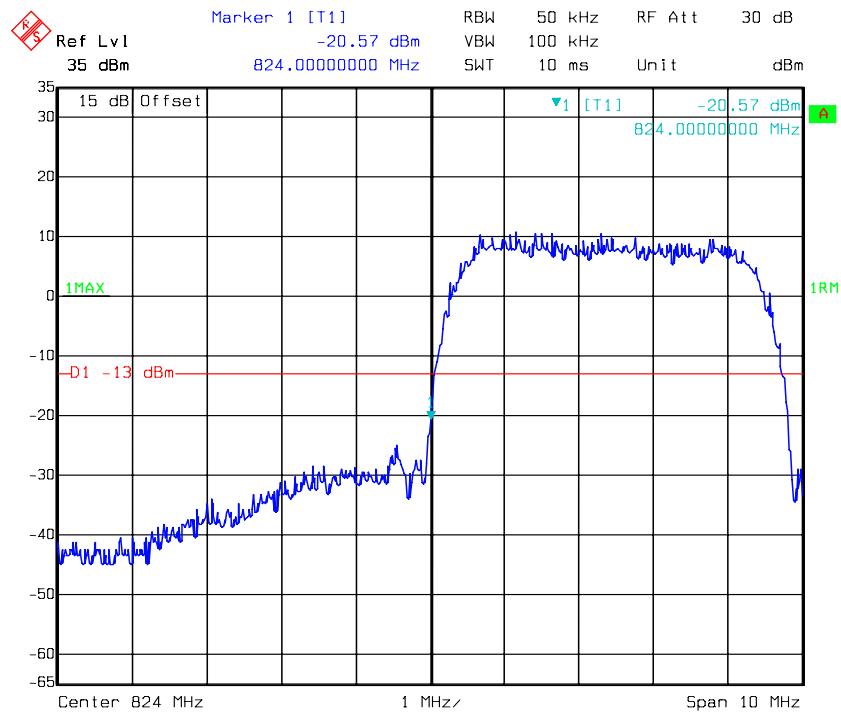
EDGE 850, Left Band Edge**EDGE 850, Right Band Edge**

EDGE 1900, Left Band Edge**EDGE 1900, Right Band Edge**

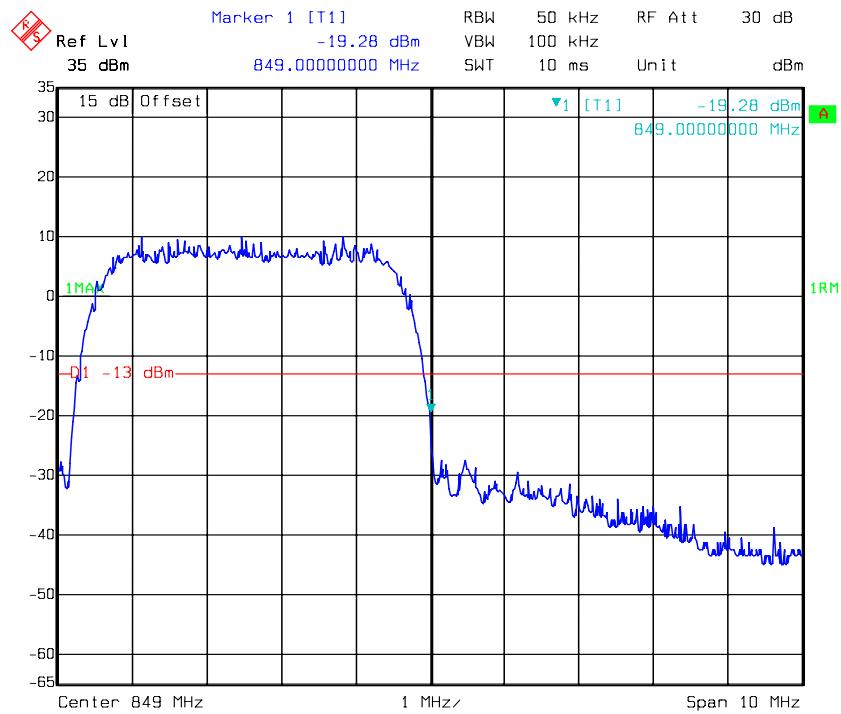
REL99 Band II, Left Band Edge**REL99 Band II, Right Band Edge**

HSDPA Band II, Left Band Edge**HSDPA Band II, Right Band Edge**

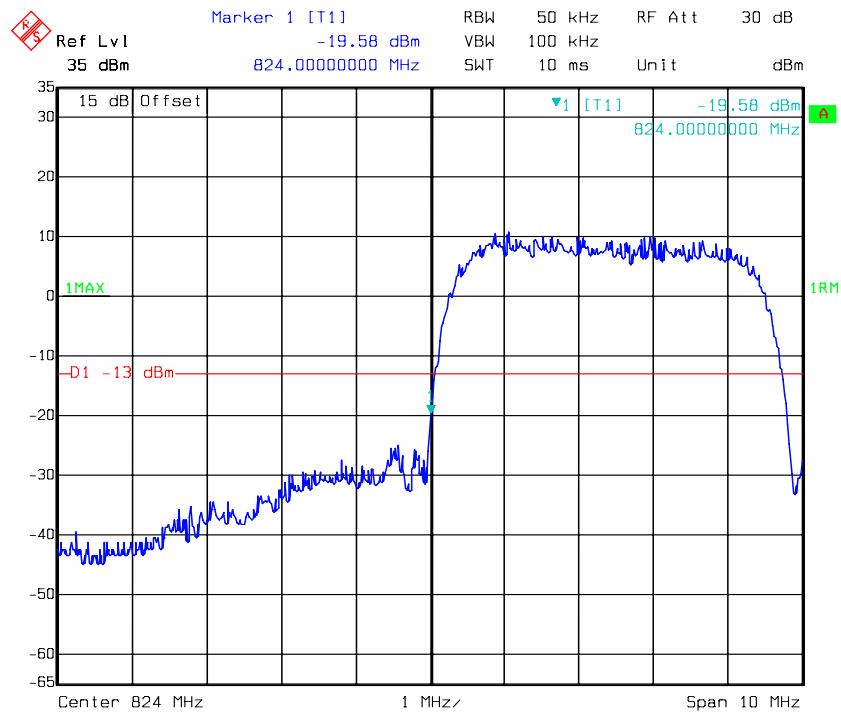
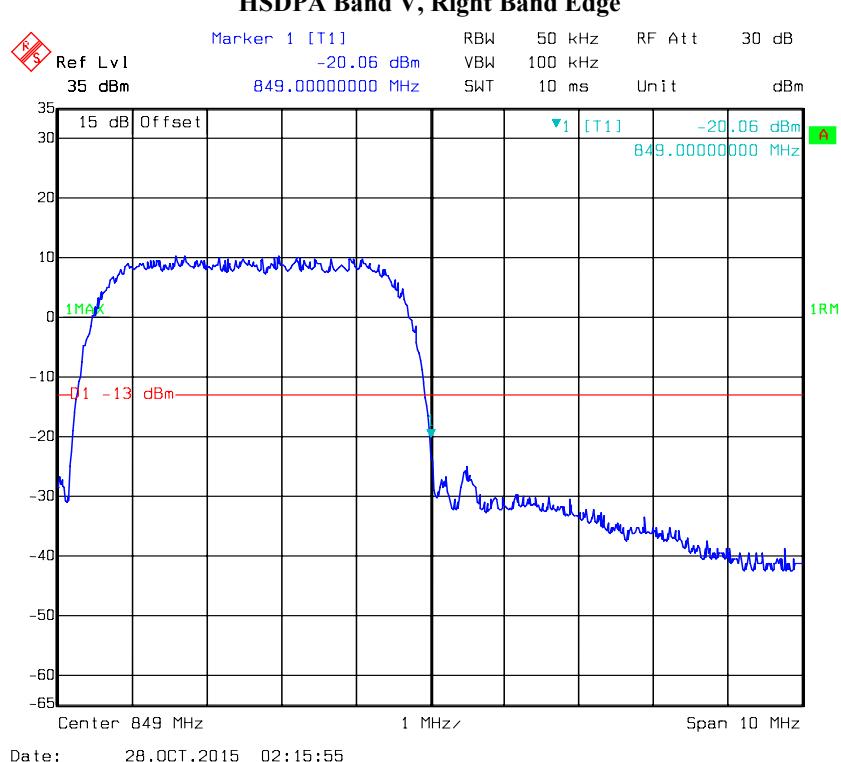
HSUPA Band II, Left Band Edge**HSUPA Band II, Right Band Edge**

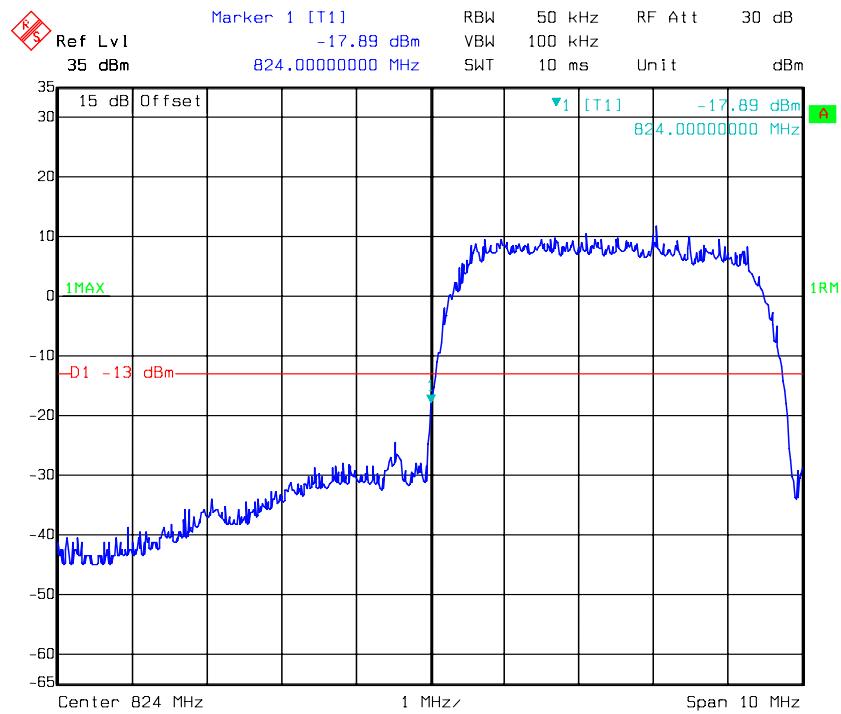
REL99 Band V, Left Band Edge

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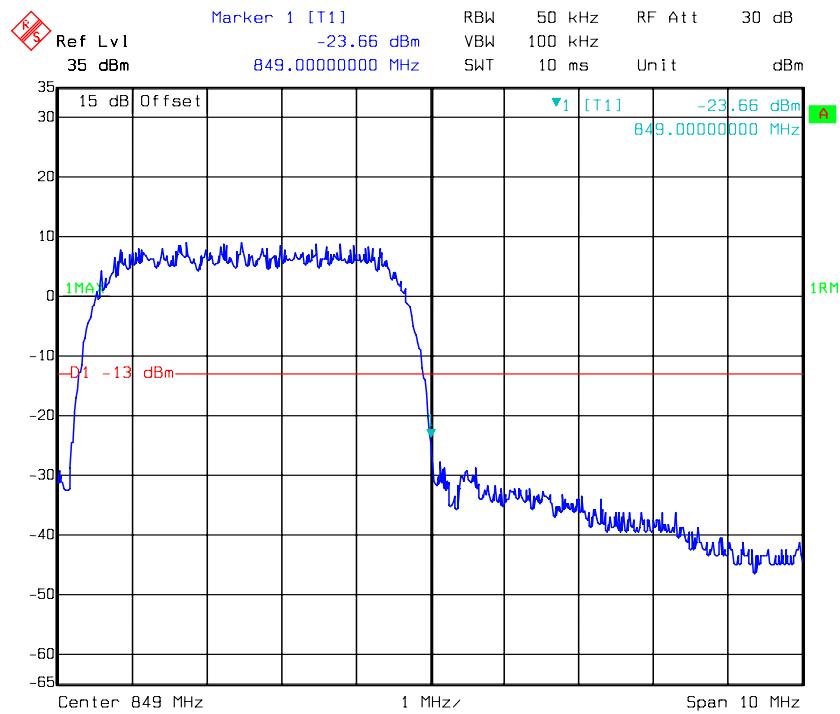
REL99 Band V Right Band Edge

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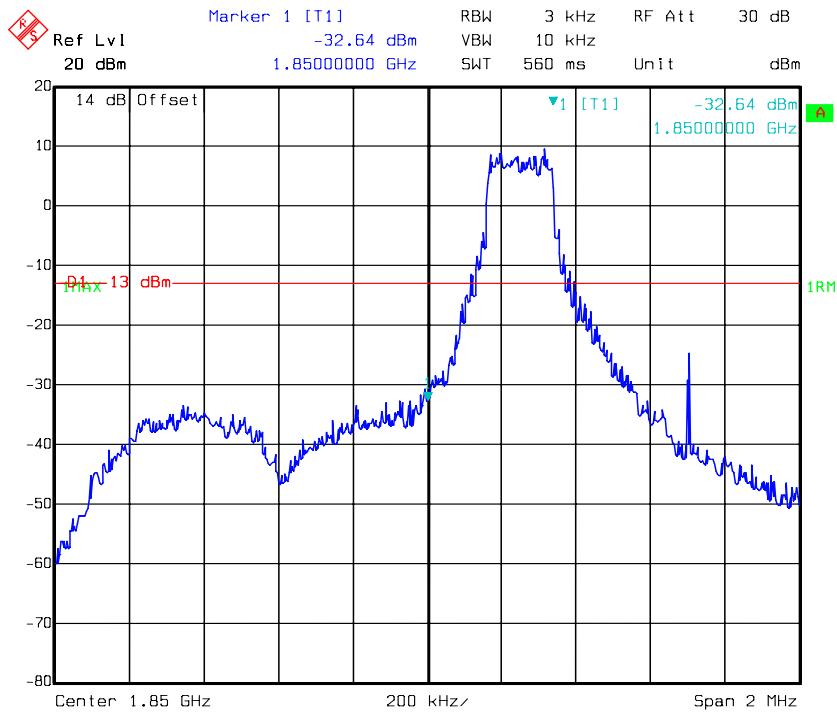
HSDPA Band V, Left Band Edge**HSDPA Band V, Right Band Edge**

HSUPA Band V, Left Band Edge

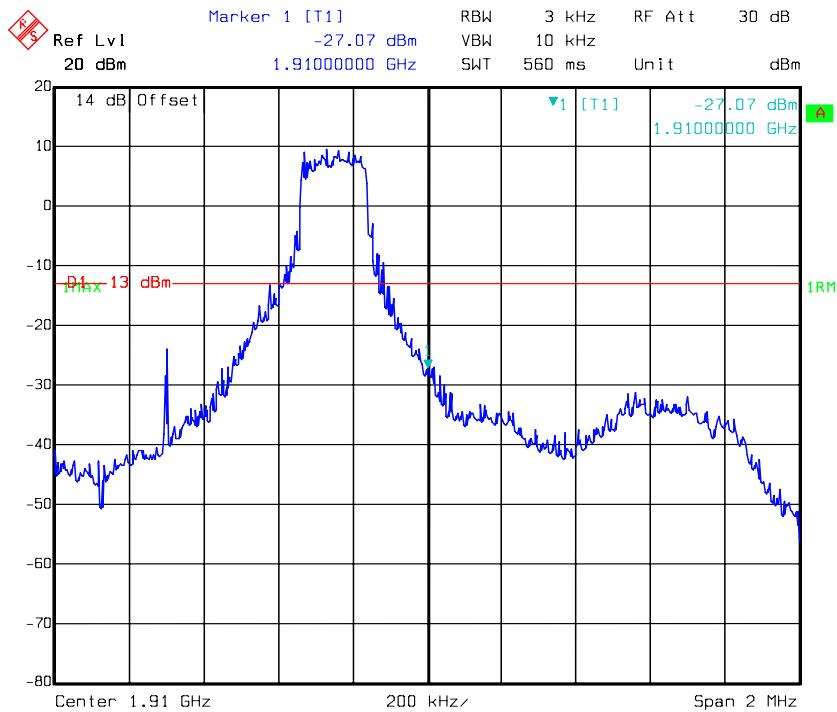
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HSUPA Band V, Right Band Edge

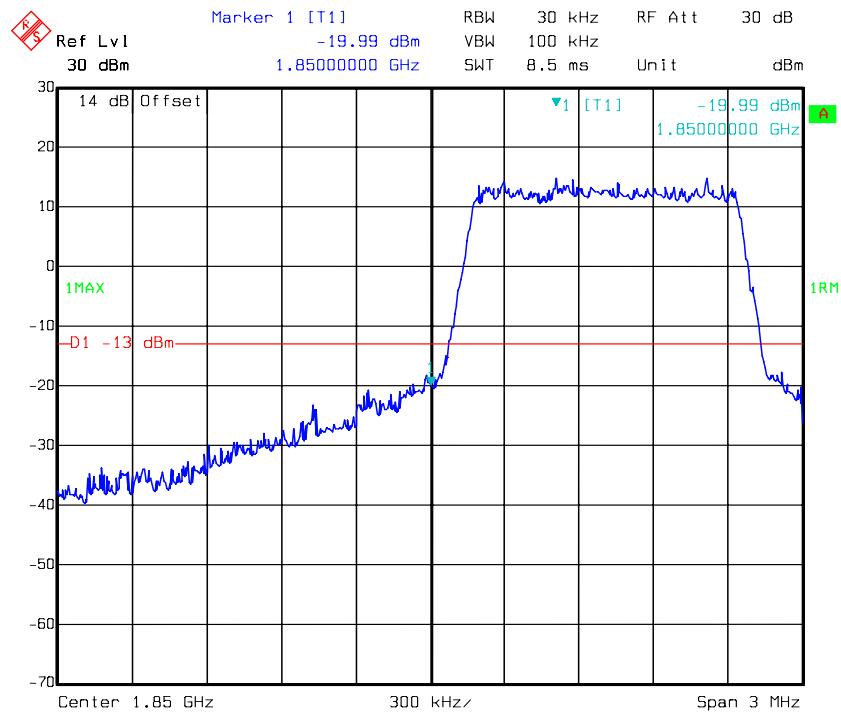
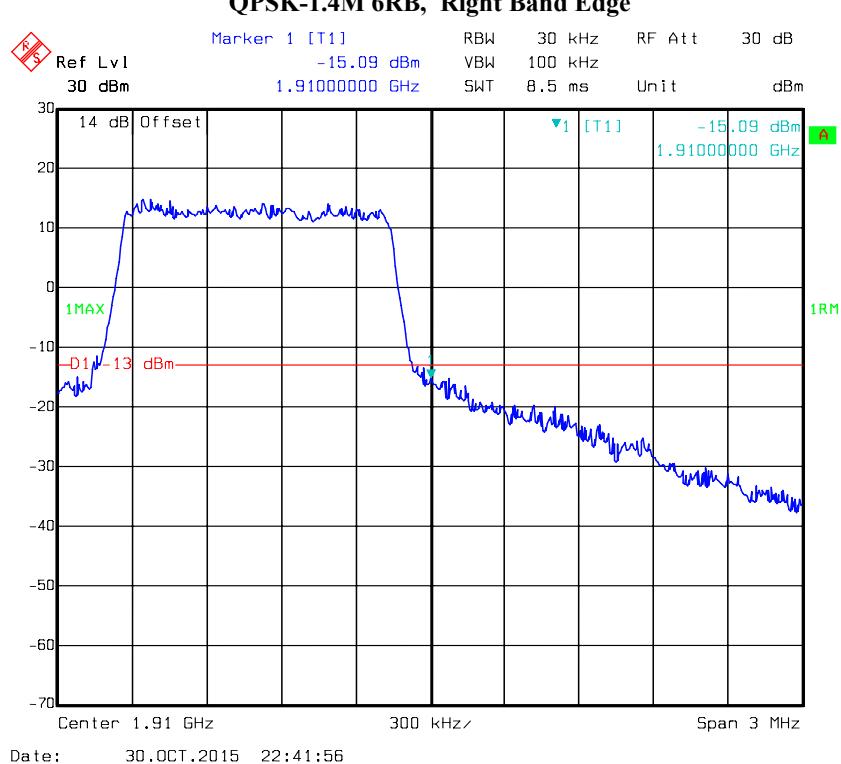
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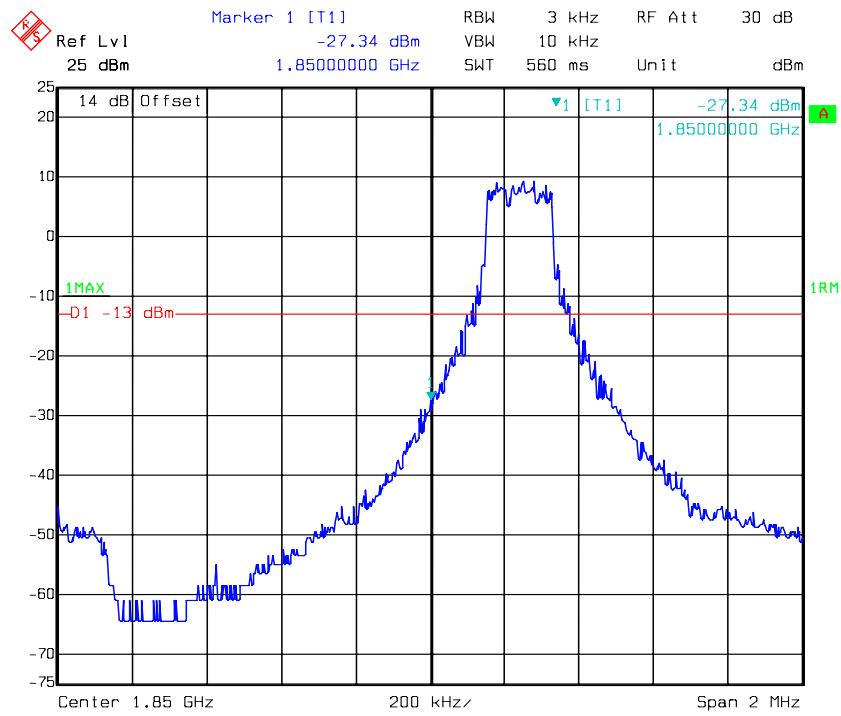
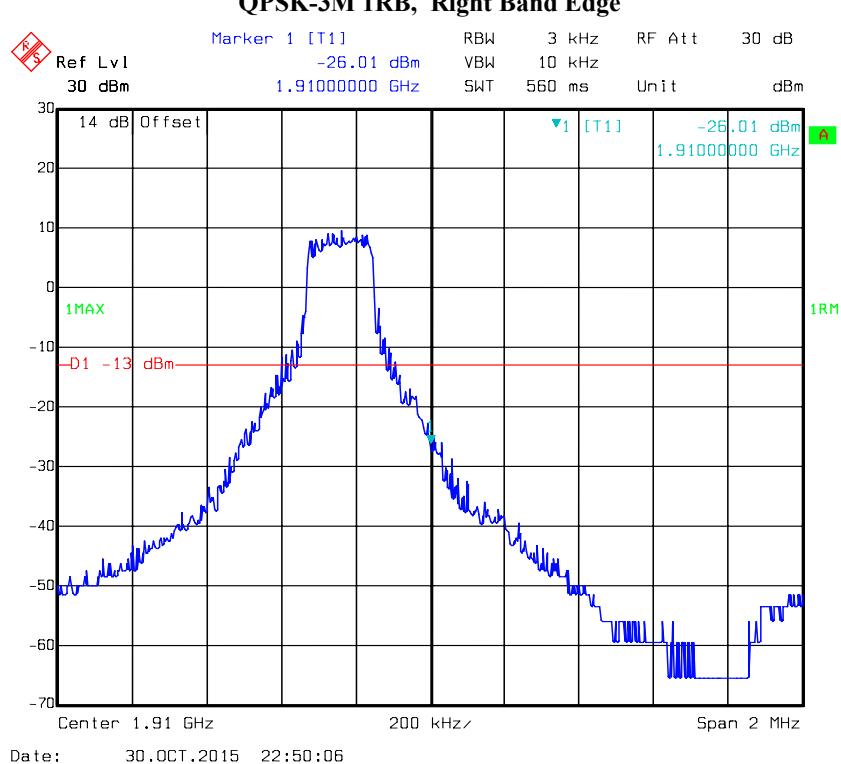
LTE Band 2**QPSK-1.4M 1RB, Left Band Edge**

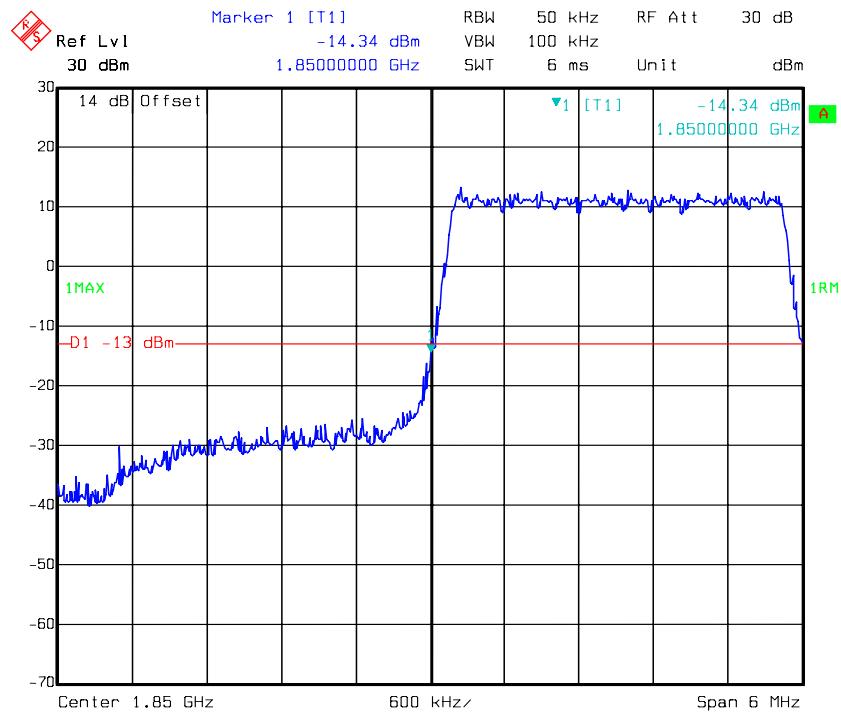
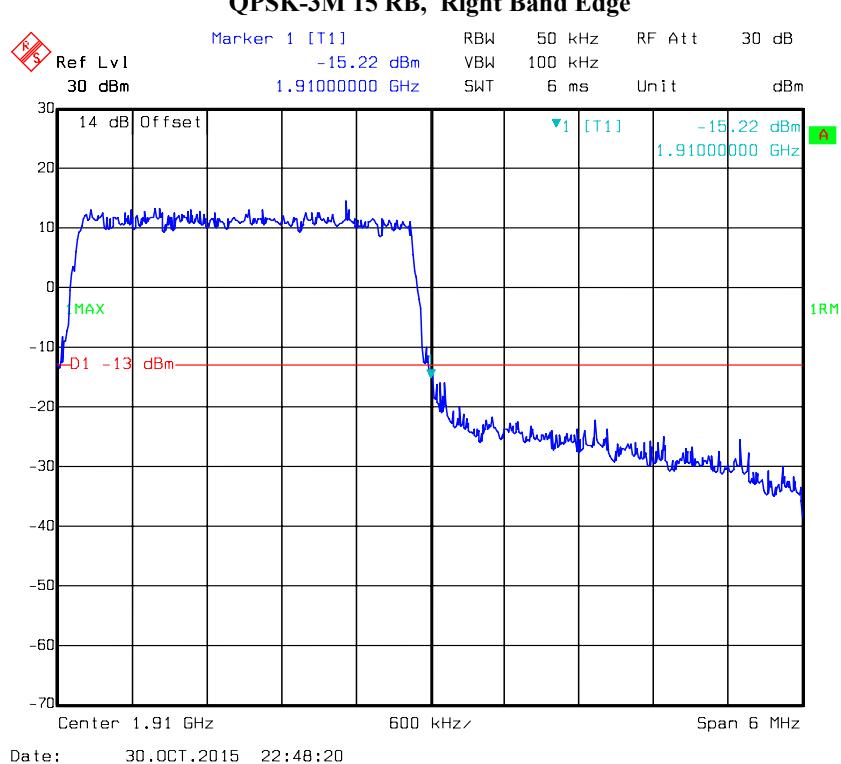
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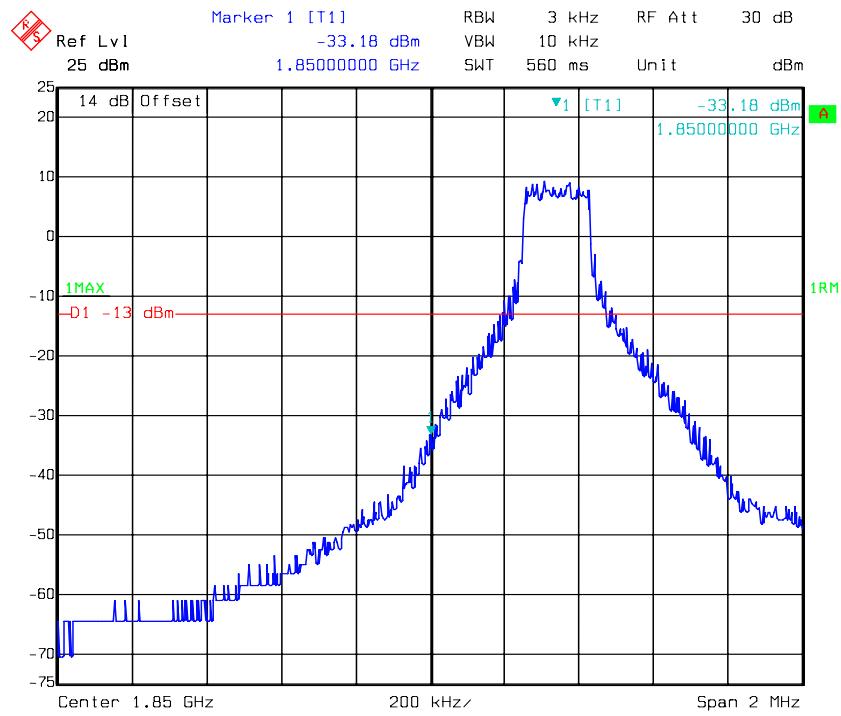
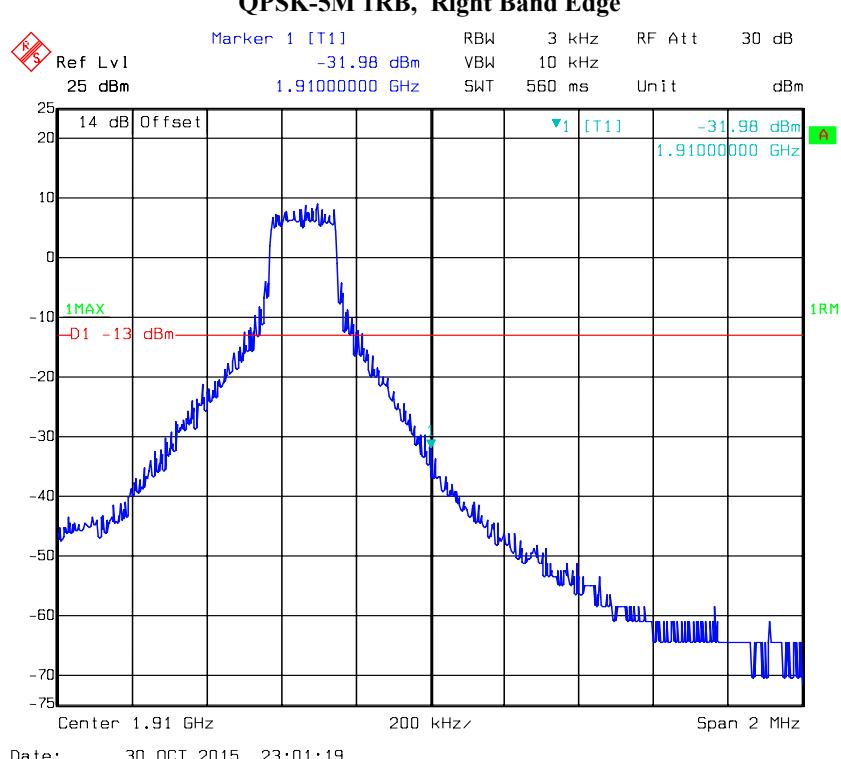
QPSK-1.4M 1RB, Right Band Edge

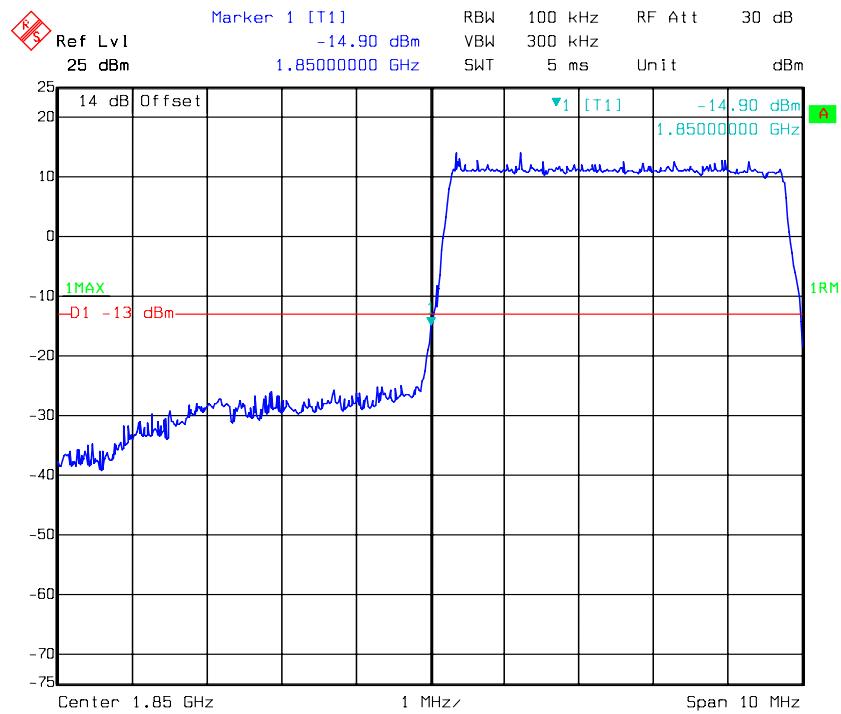
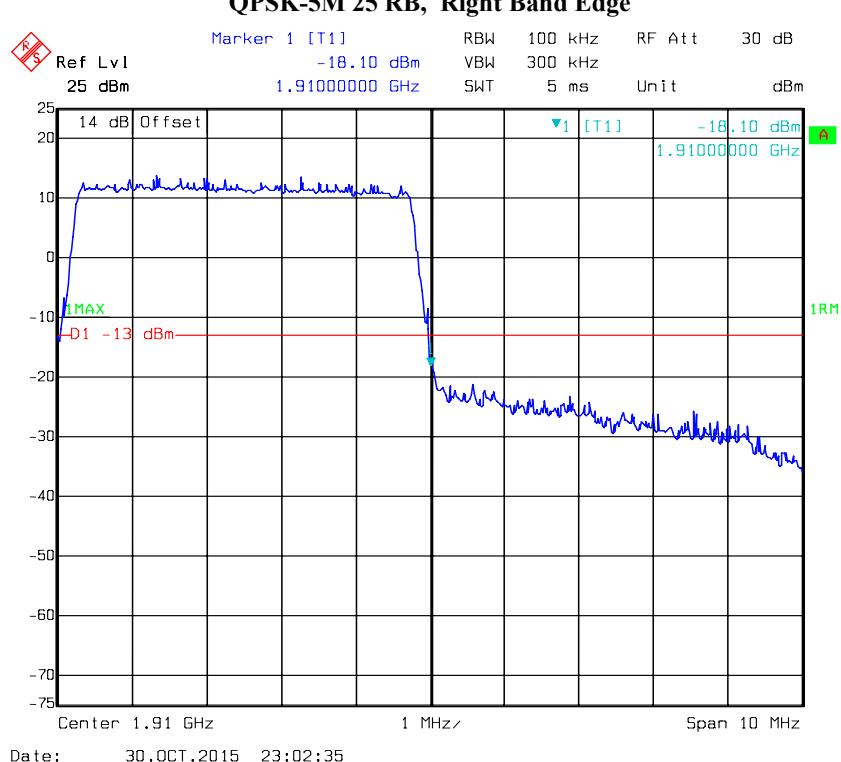
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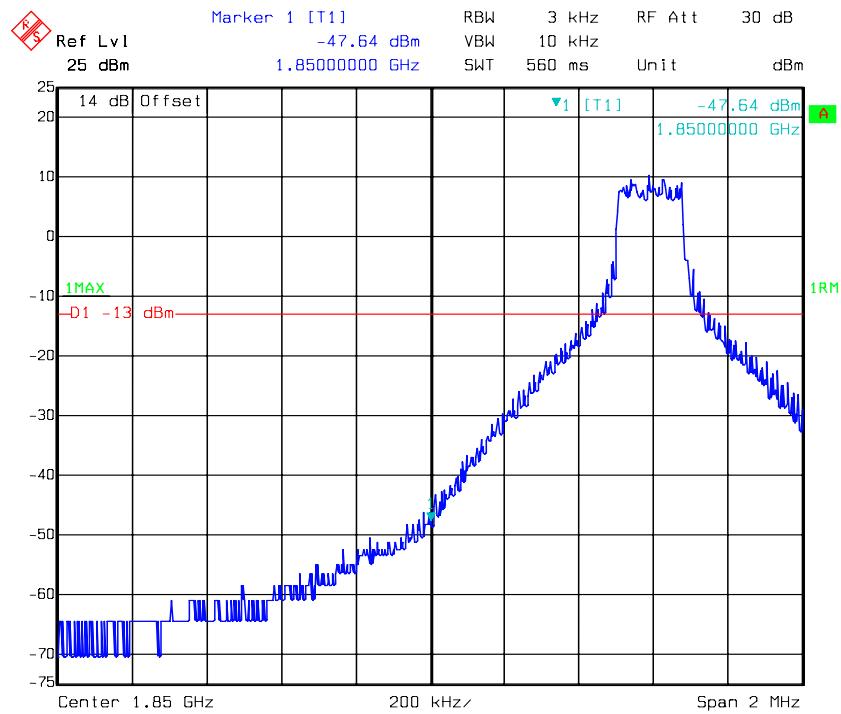
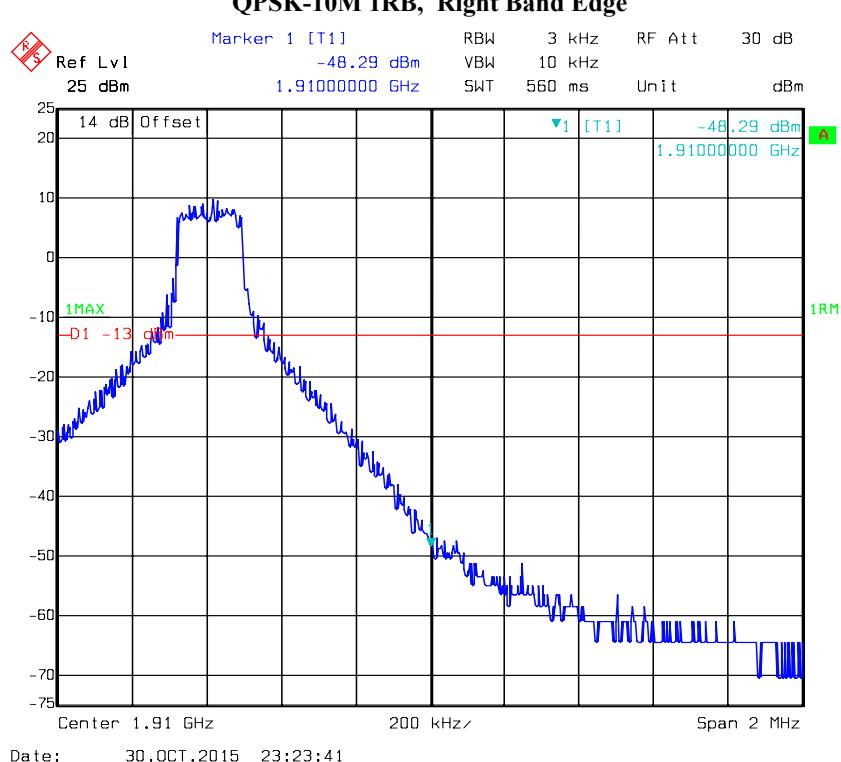
QPSK-1.4M 6RB, Left Band Edge**QPSK-1.4M 6RB, Right Band Edge**

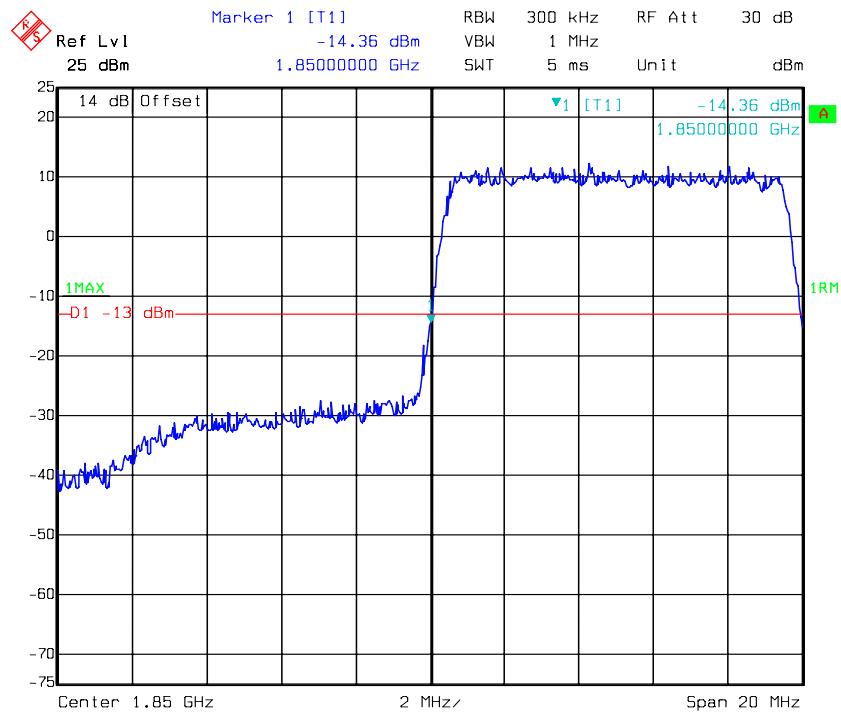
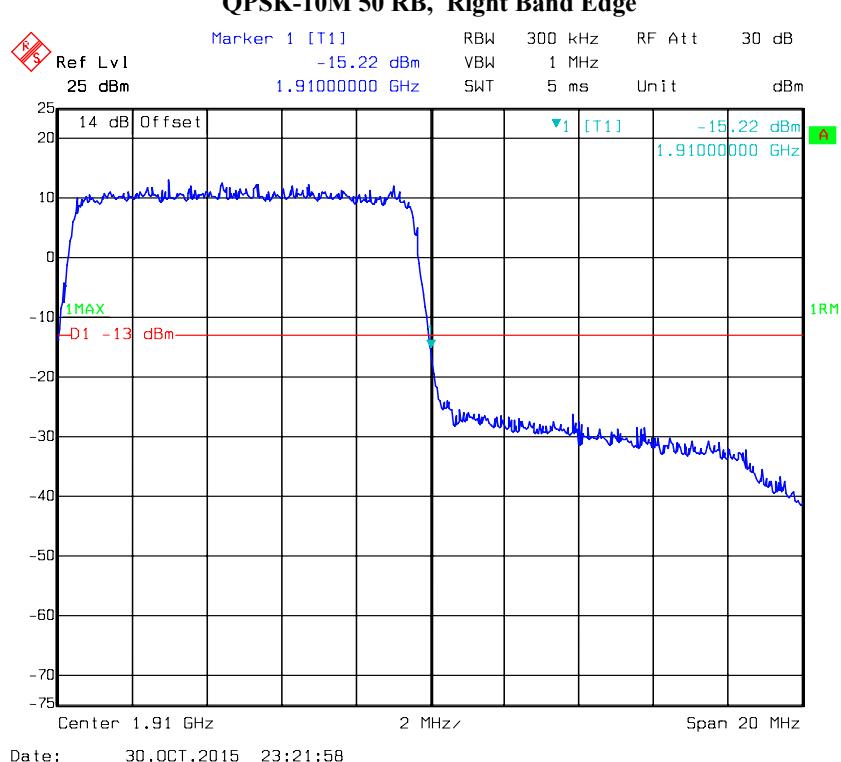
QPSK-3M 1RB, Left Band Edge**QPSK-3M 1RB, Right Band Edge**

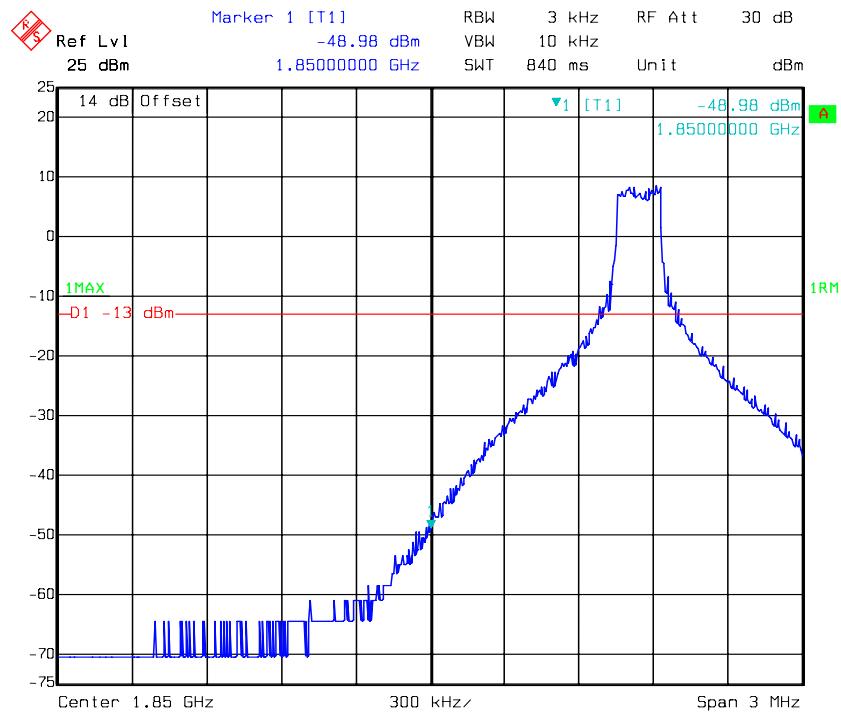
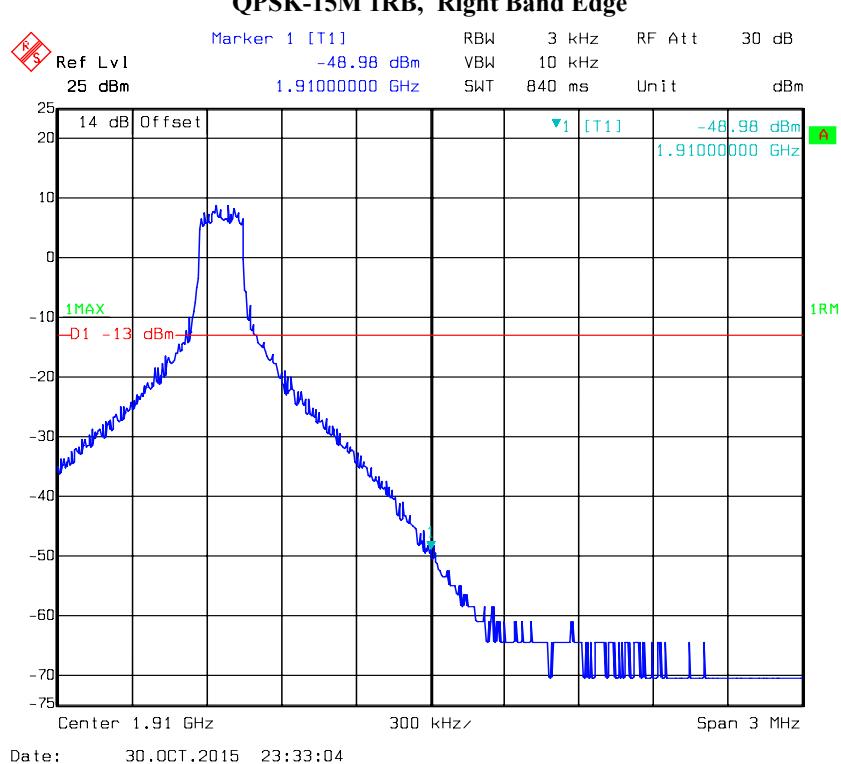
QPSK-3M 15 RB, Left Band Edge**QPSK-3M 15 RB, Right Band Edge**

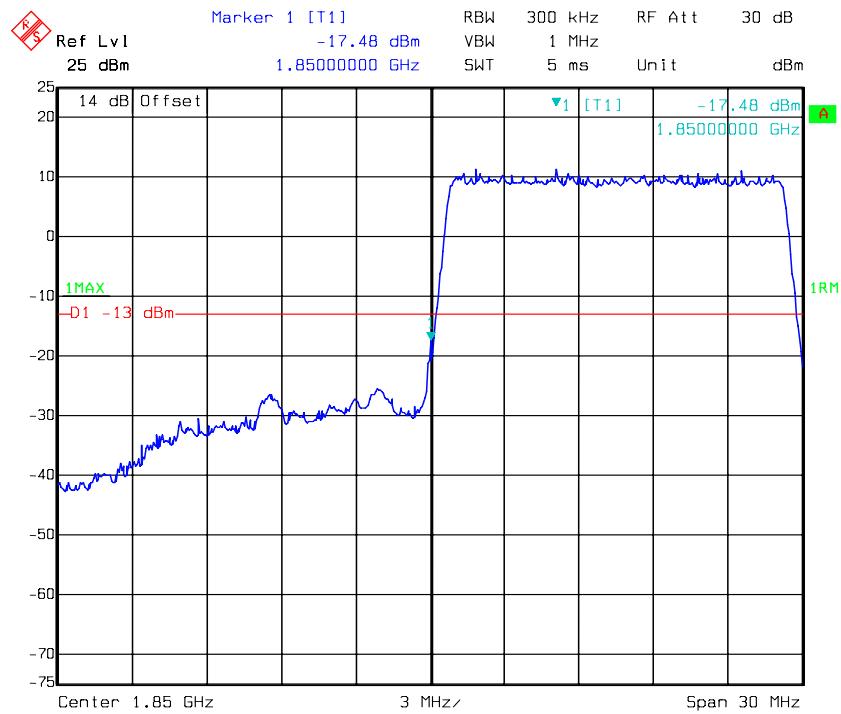
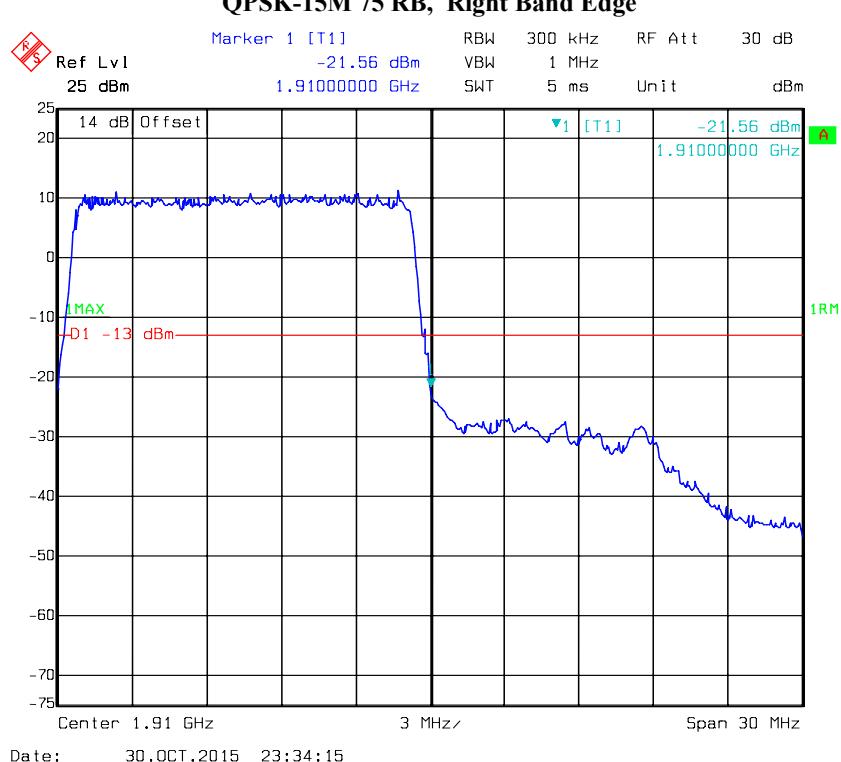
QPSK-5M 1RB, Left Band Edge**QPSK-5M 1RB, Right Band Edge**

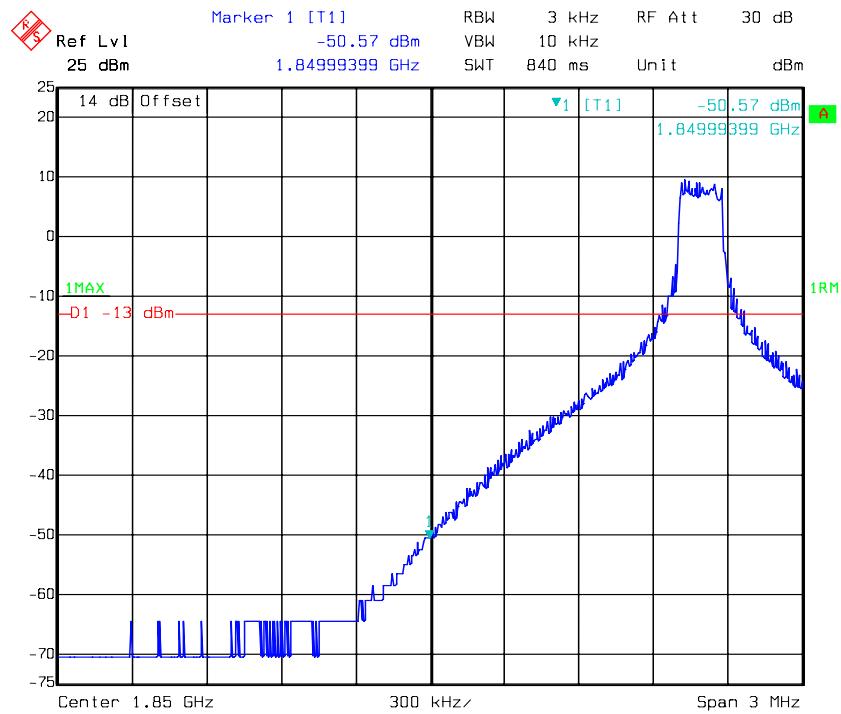
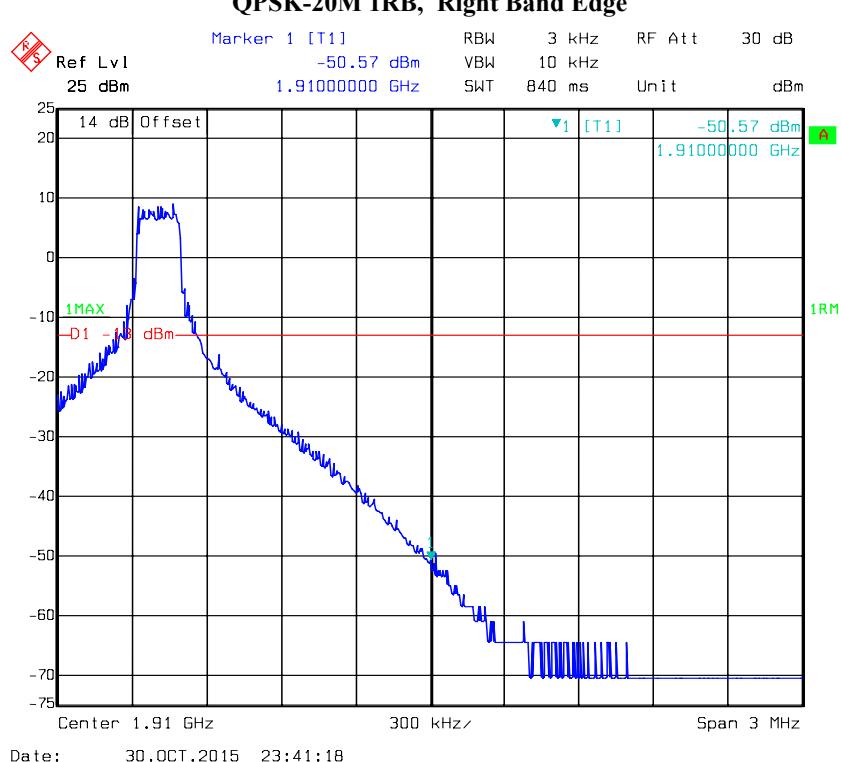
QPSK-5M 25 RB, Left Band Edge**QPSK-5M 25 RB, Right Band Edge**

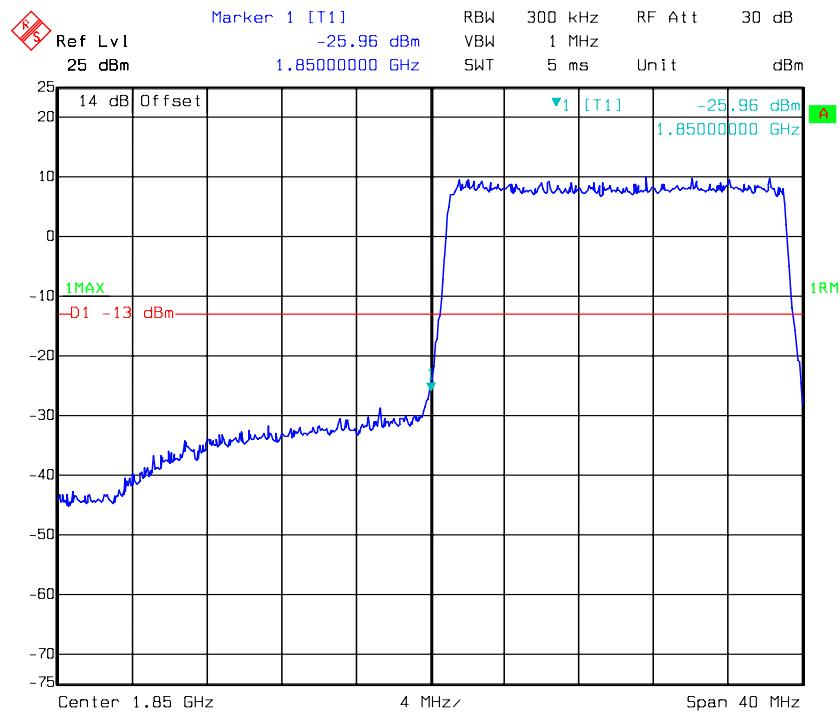
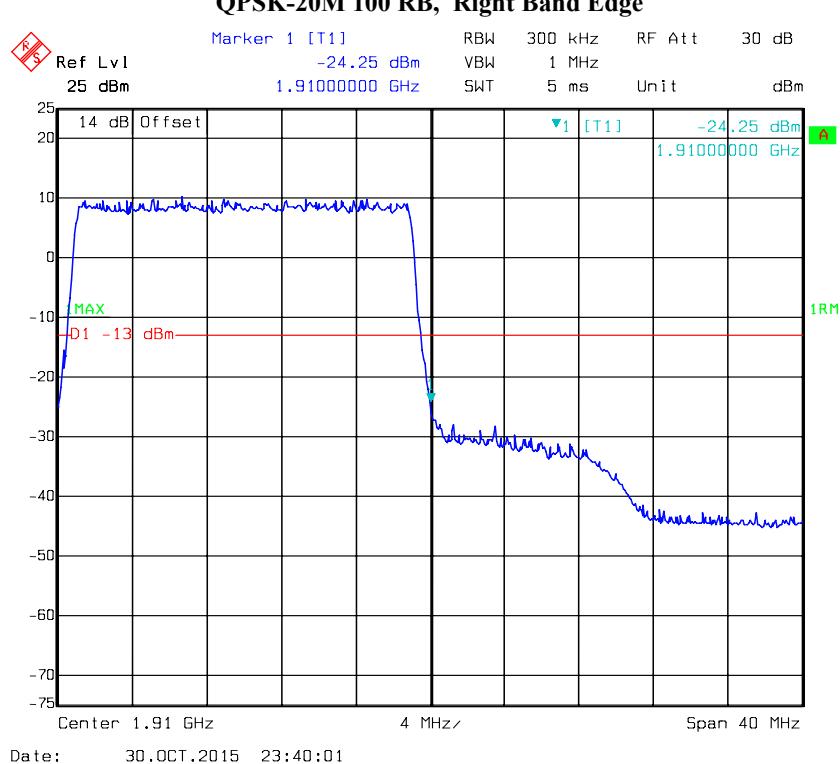
QPSK-10M 1RB, Left Band Edge**QPSK-10M 1RB, Right Band Edge**

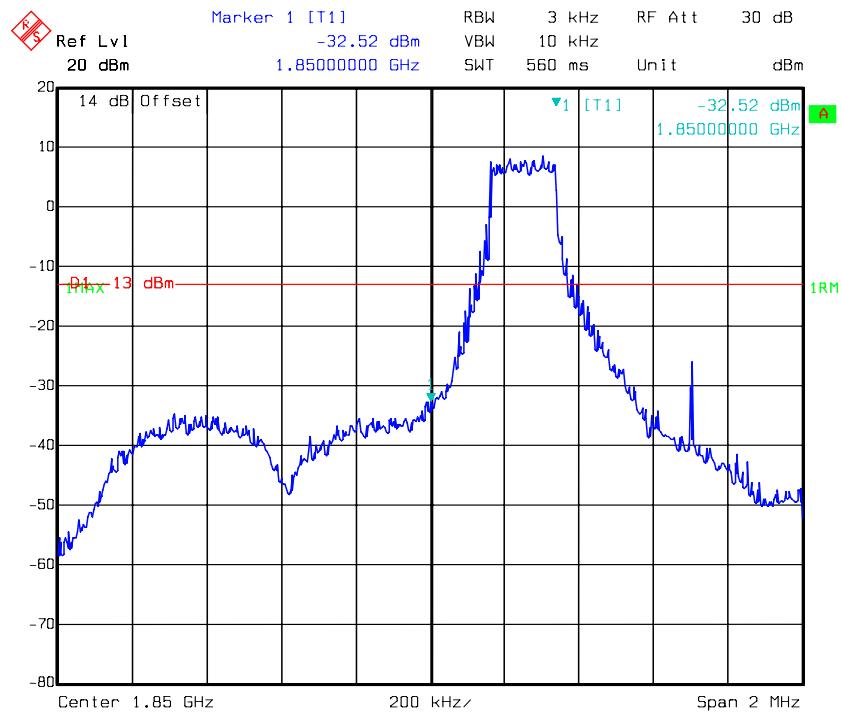
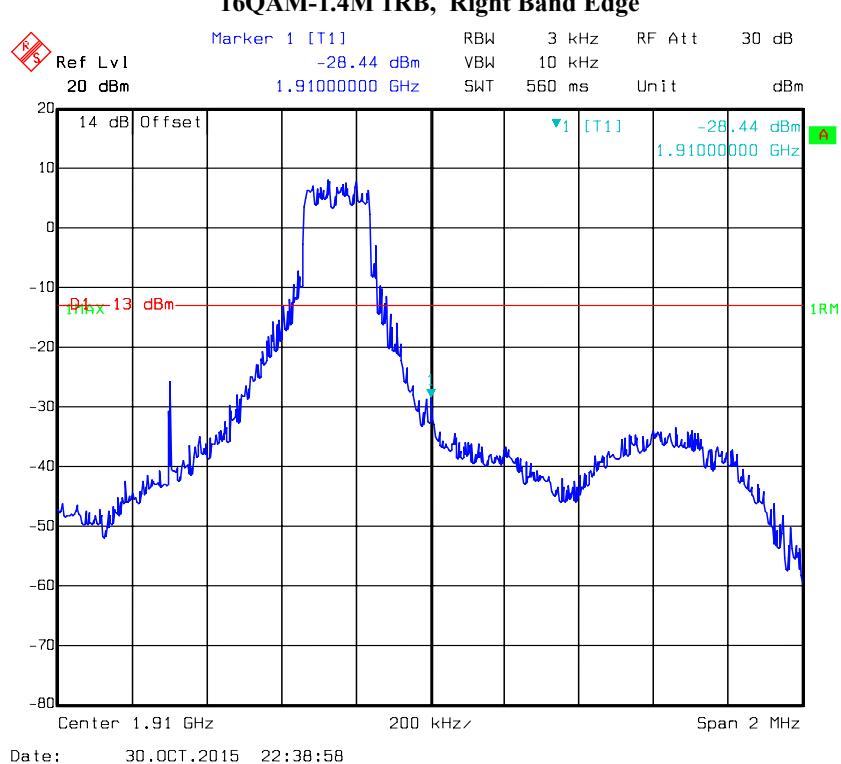
QPSK-10M 50 RB, Left Band Edge**QPSK-10M 50 RB, Right Band Edge**

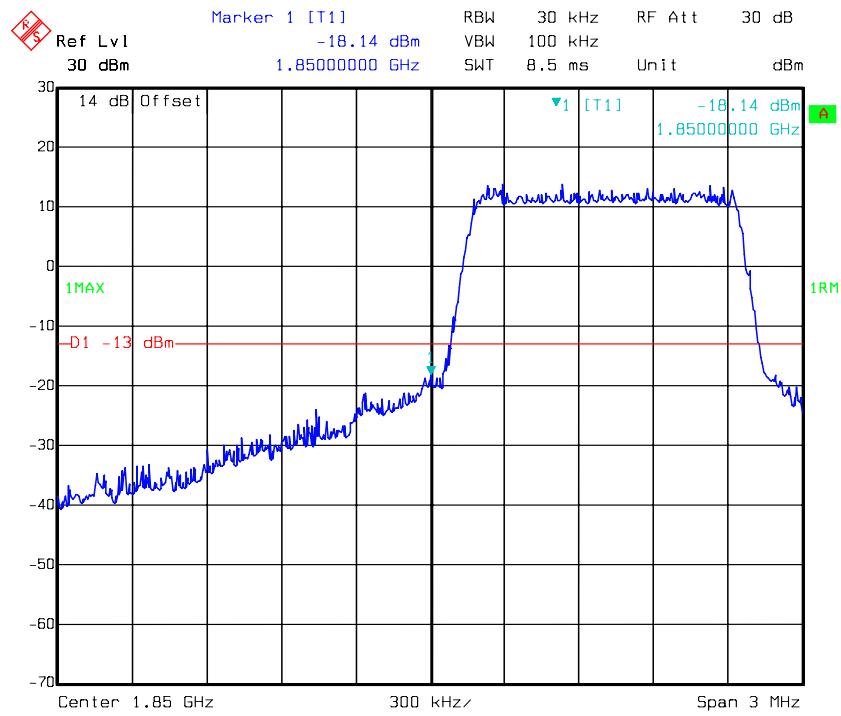
QPSK-15M 1RB, Left Band Edge**QPSK-15M 1RB, Right Band Edge**

QPSK-15M 75 RB, Left Band Edge**QPSK-15M 75 RB, Right Band Edge**

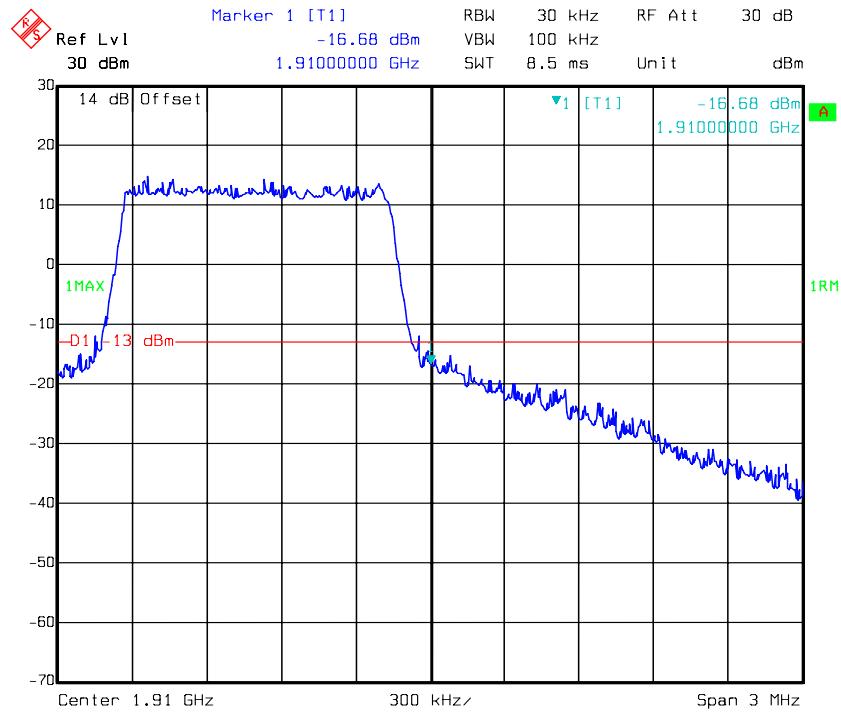
QPSK-20M 1RB, Left Band Edge**QPSK-20M 1RB, Right Band Edge**

QPSK-20M 100 RB, Left Band Edge**QPSK-20M 100 RB, Right Band Edge**

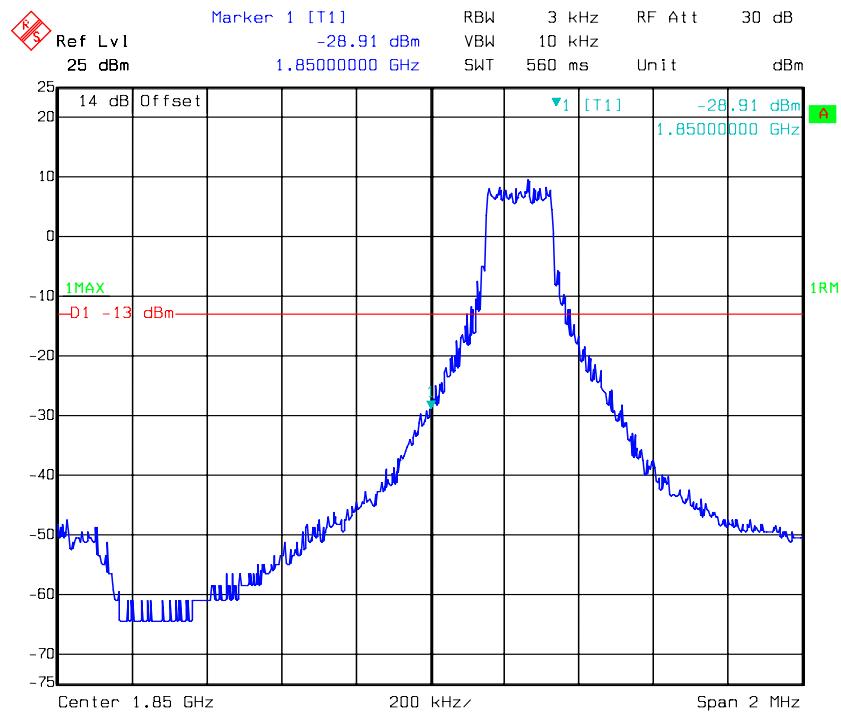
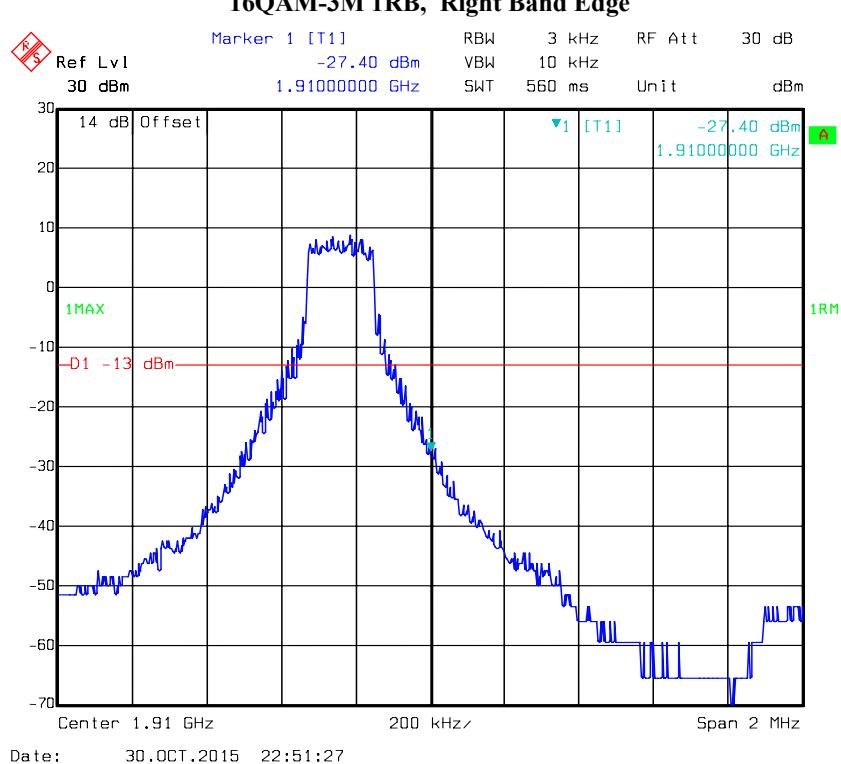
16QAM-1.4M 1RB, Left Band Edge**16QAM-1.4M 1RB, Right Band Edge**

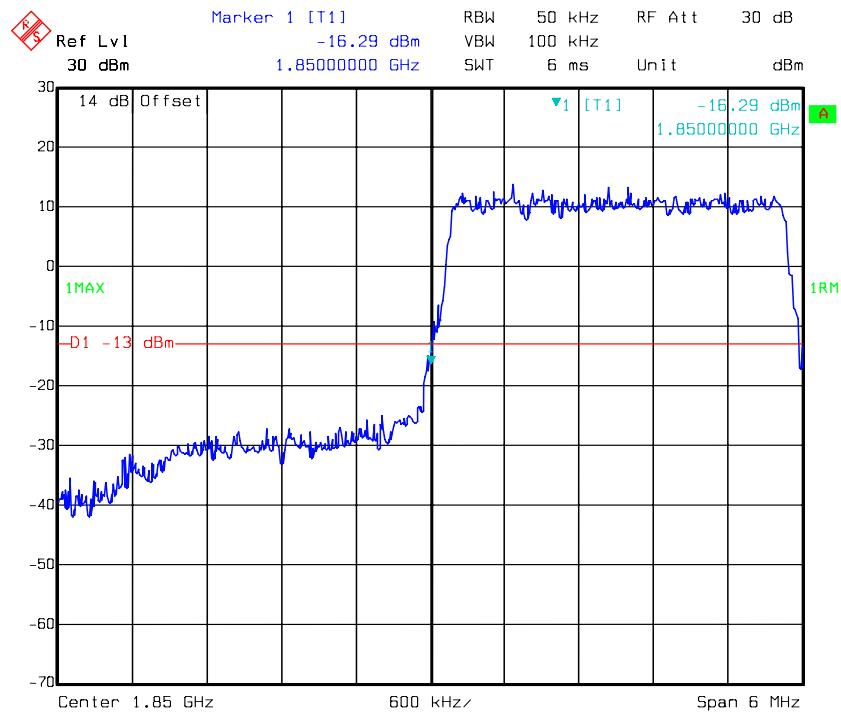
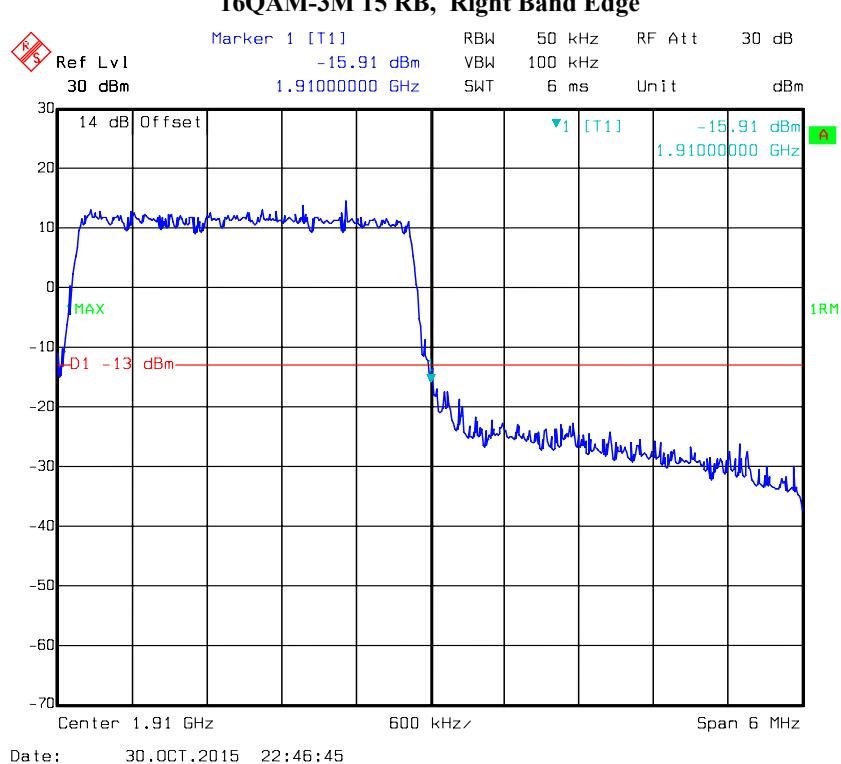
16QAM-1.4M 6RB, Left Band Edge

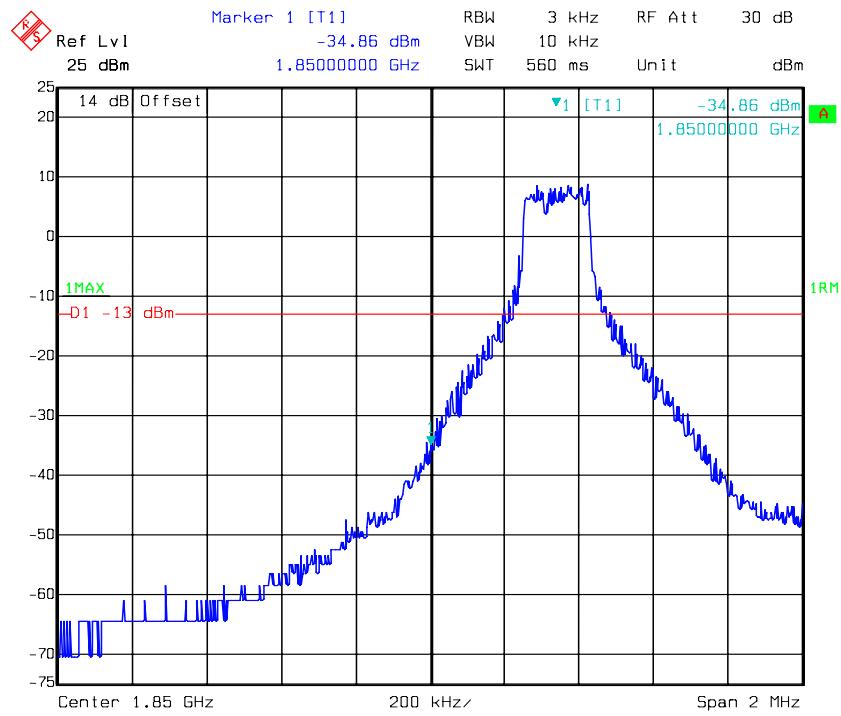
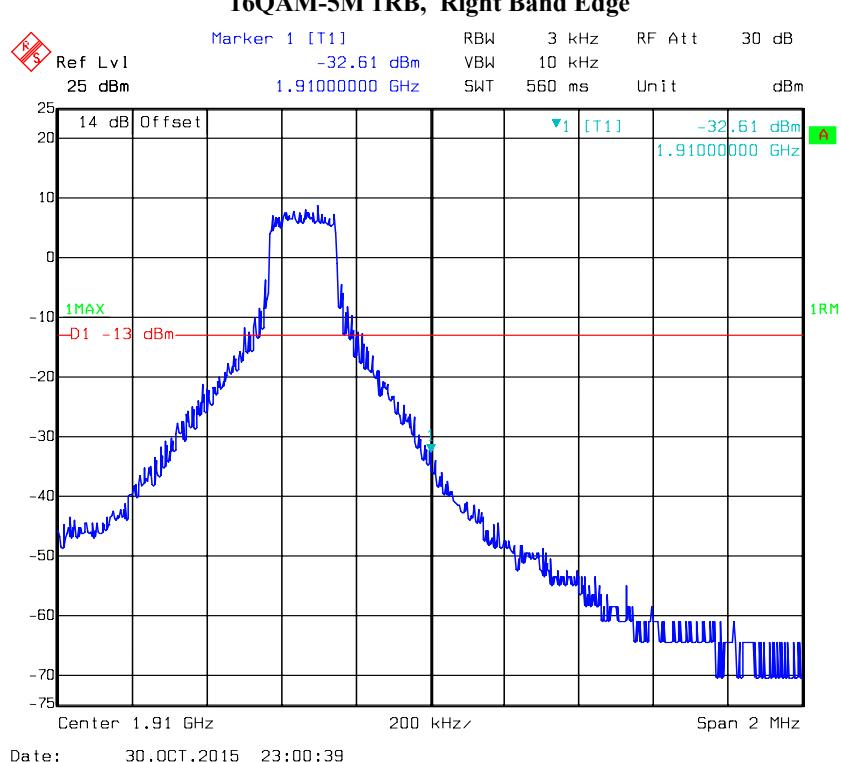
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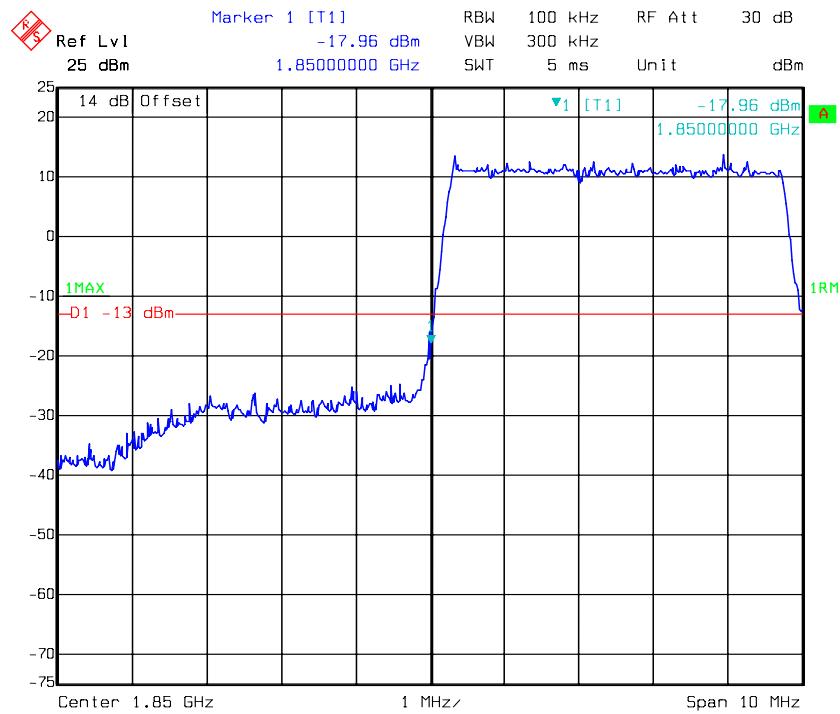
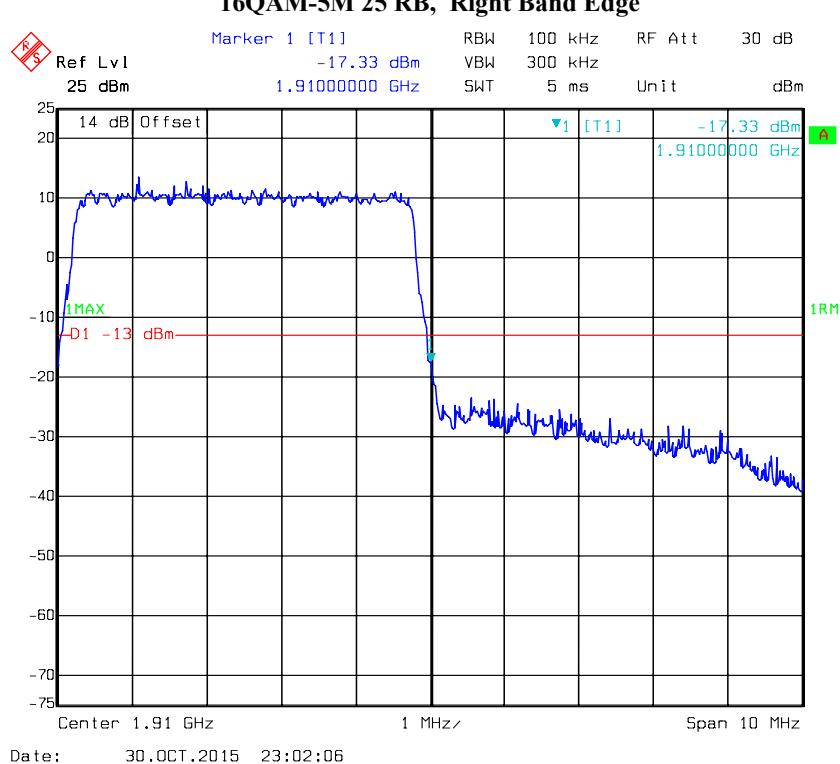
16QAM-1.4M 6RB, Right Band Edge

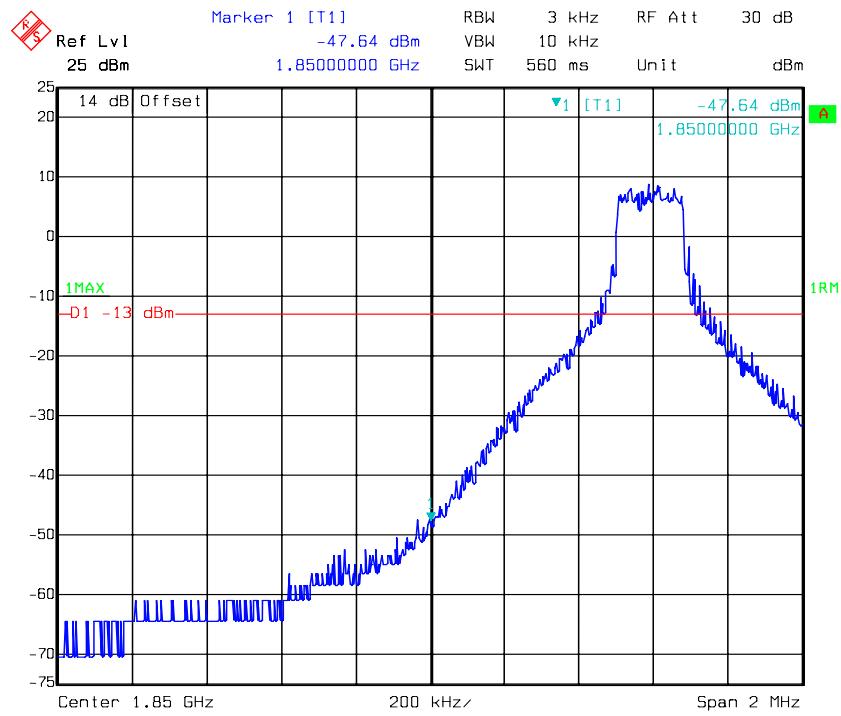
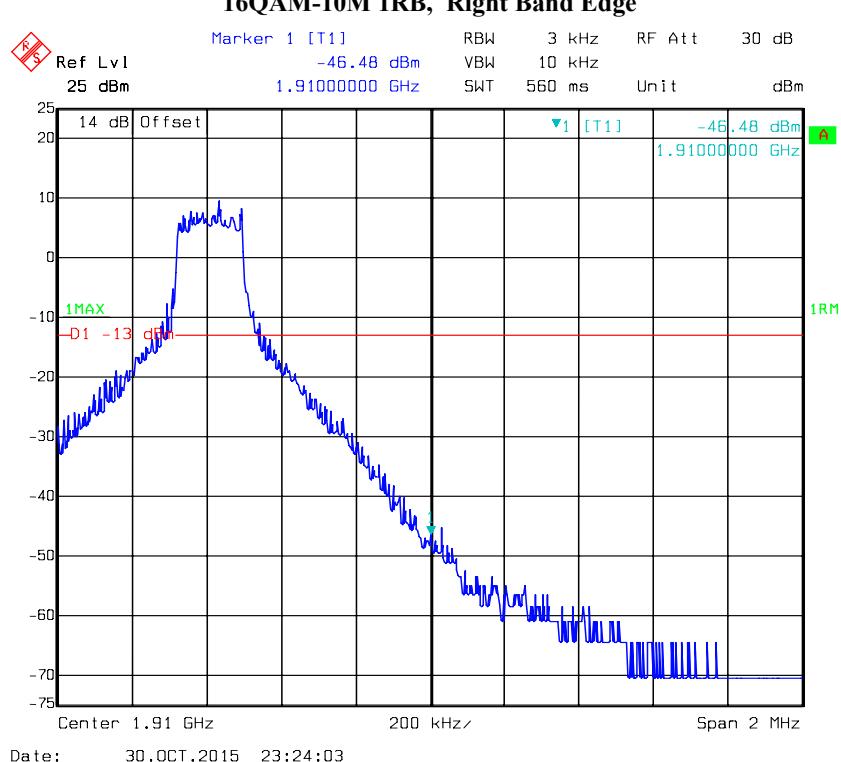
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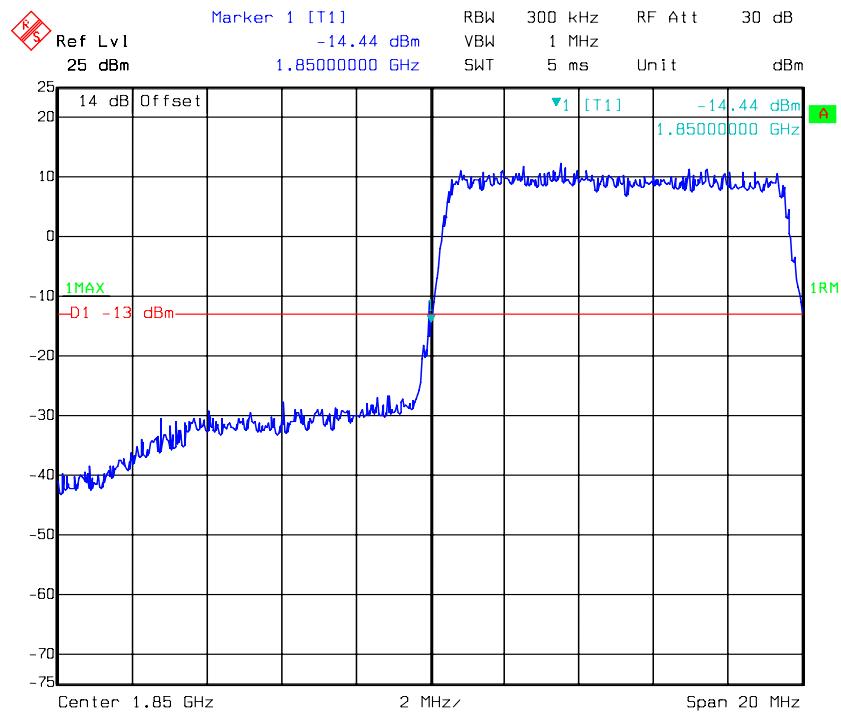
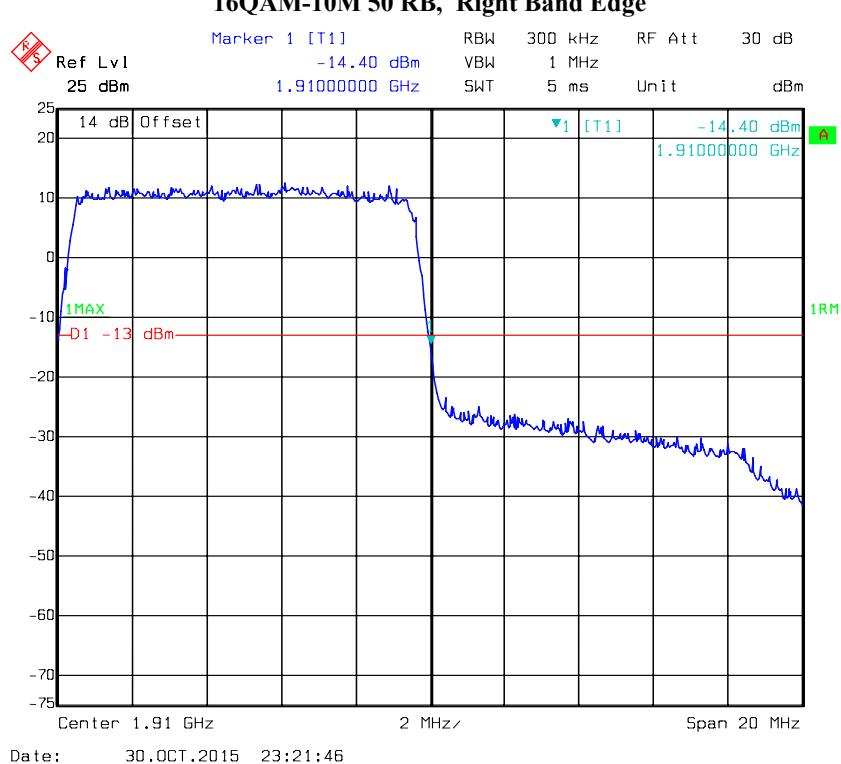
16QAM-3M 1RB, Left Band Edge**16QAM-3M 1RB, Right Band Edge**

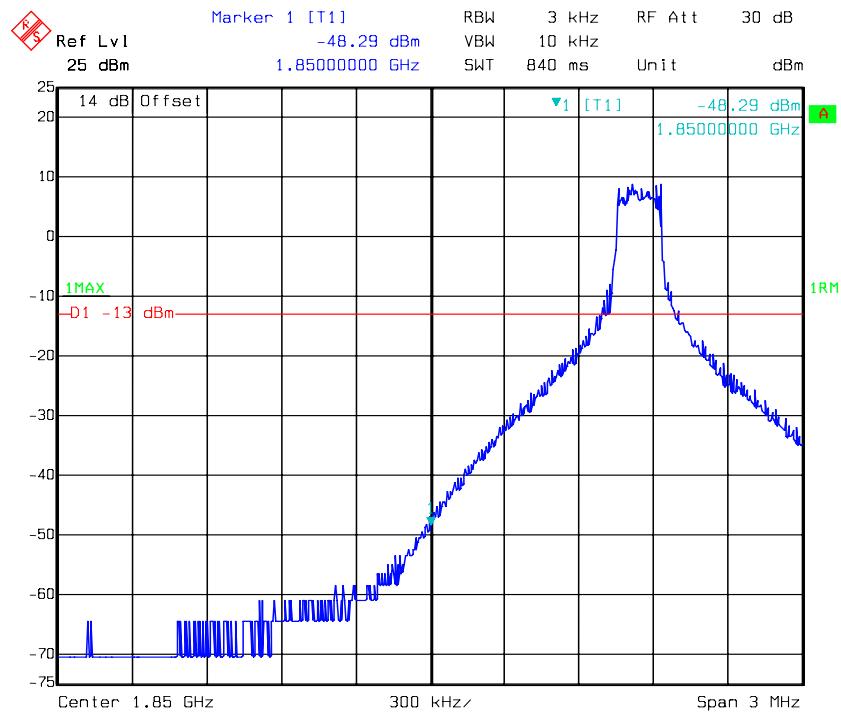
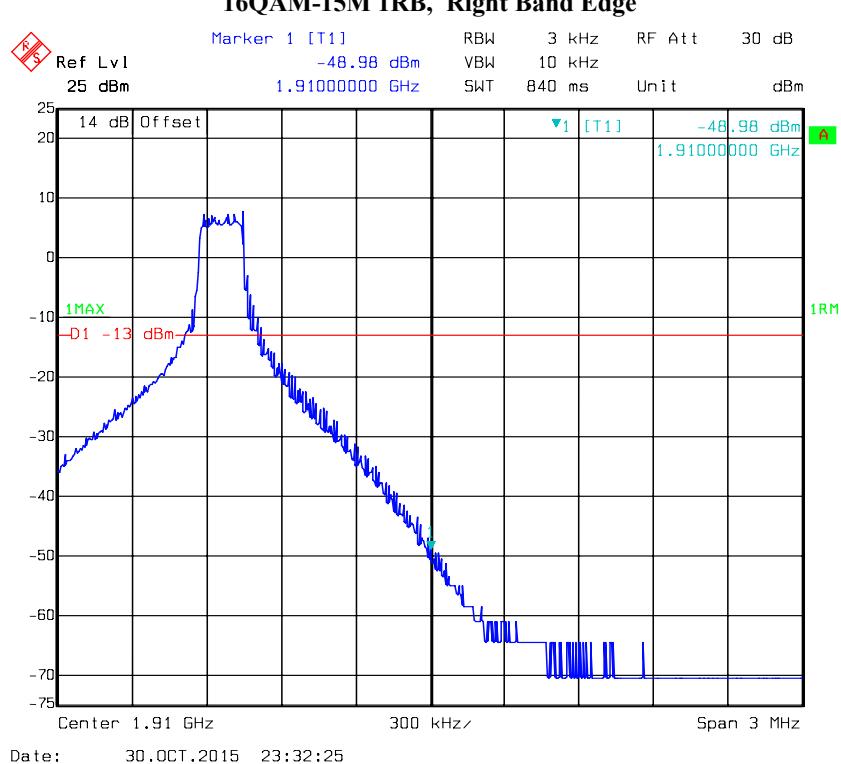
16QAM-3M 15 RB, Left Band Edge**16QAM-3M 15 RB, Right Band Edge**

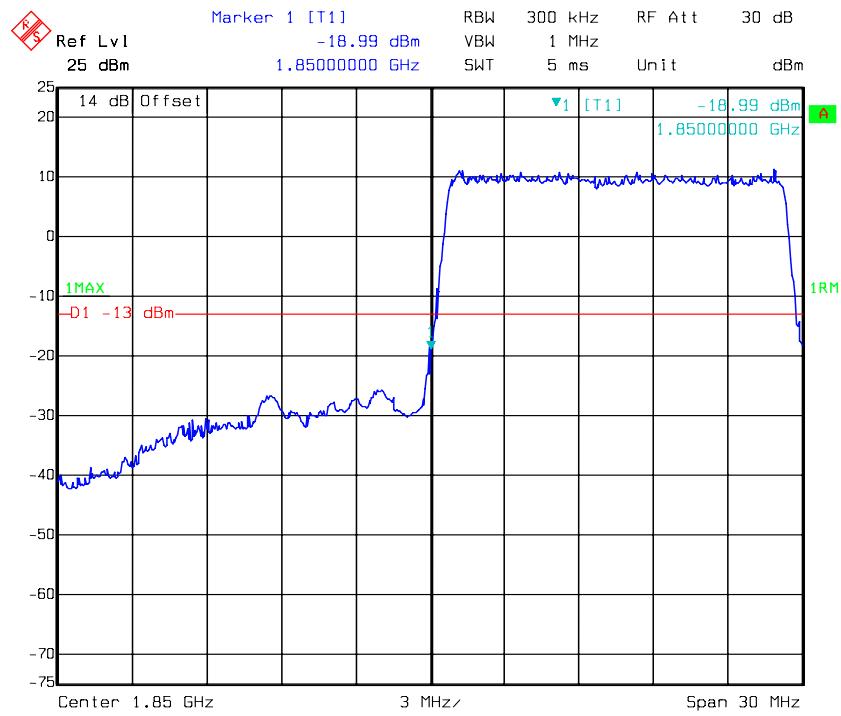
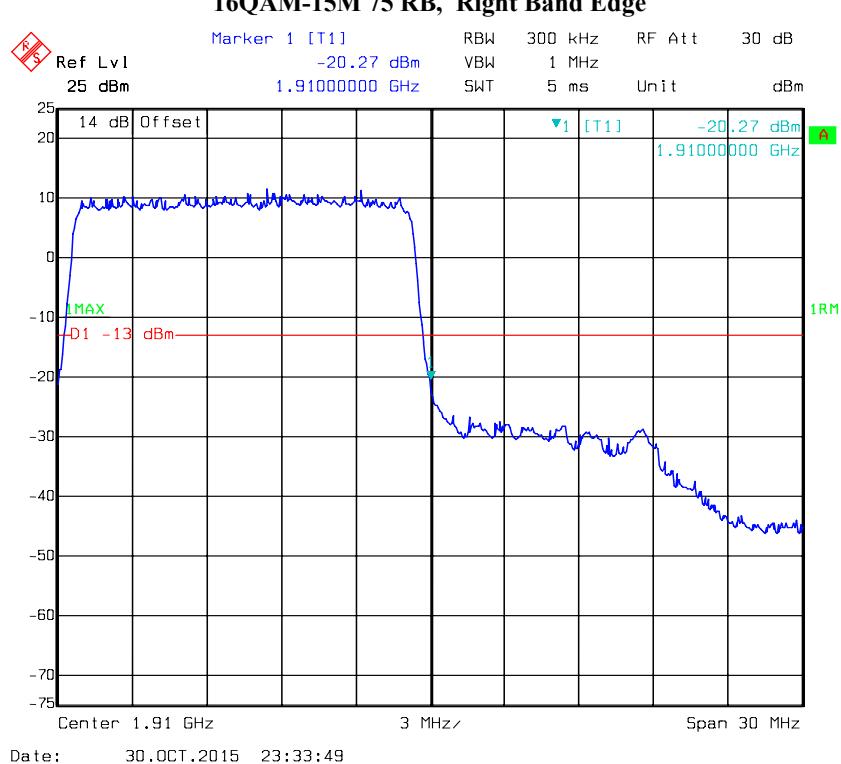
16QAM-5M 1RB, Left Band Edge**16QAM-5M 1RB, Right Band Edge**

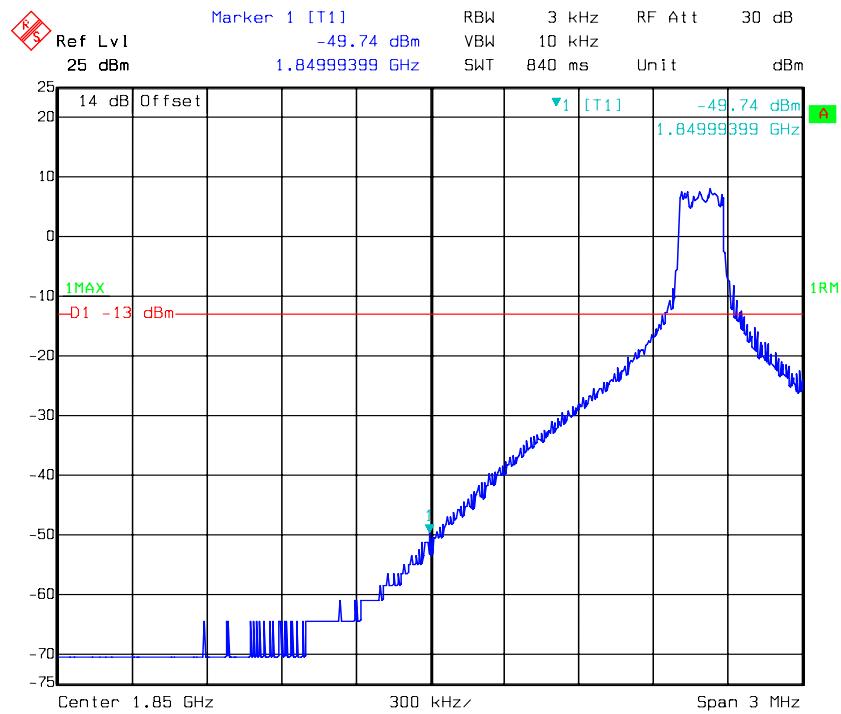
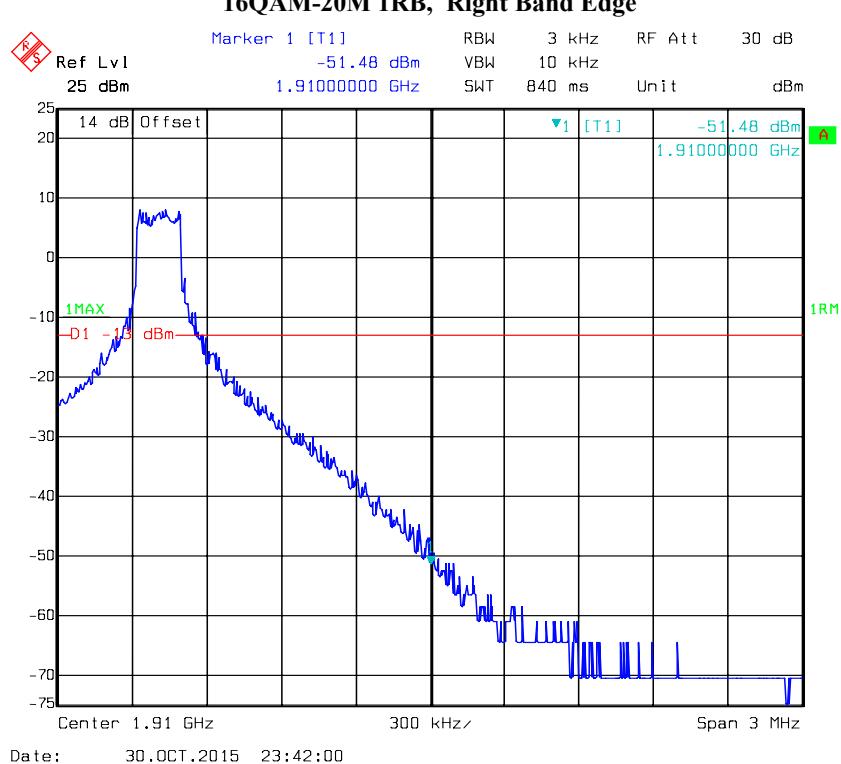
16QAM-5M 25 RB, Left Band Edge**16QAM-5M 25 RB, Right Band Edge**

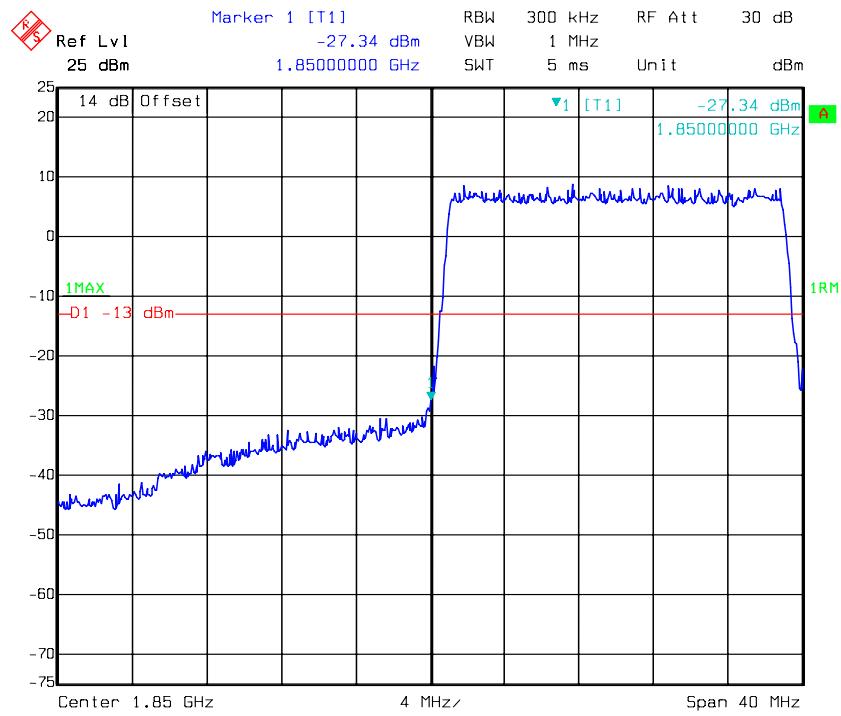
16QAM-10M 1RB, Left Band Edge**16QAM-10M 1RB, Right Band Edge**

16QAM-10M 50 RB, Left Band Edge**16QAM-10M 50 RB, Right Band Edge**

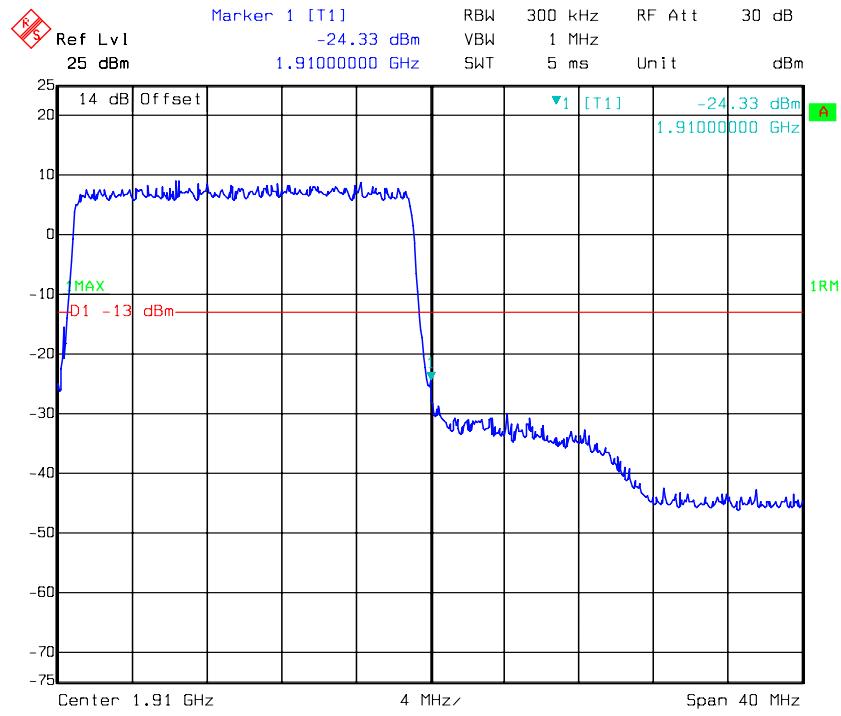
16QAM-15M 1RB, Left Band Edge**16QAM-15M 1RB, Right Band Edge**

16QAM-15M 75 RB, Left Band Edge**16QAM-15M 75 RB, Right Band Edge**

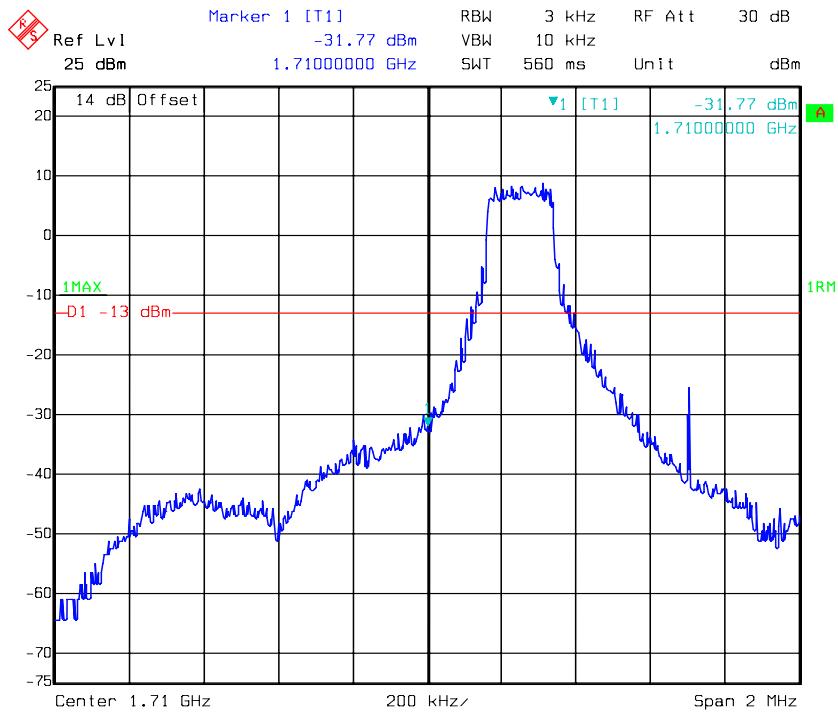
QPSK-20M 1RB, Left Band Edge**16QAM-20M 1RB, Right Band Edge**

16QAM-20M 100 RB, Left Band Edge

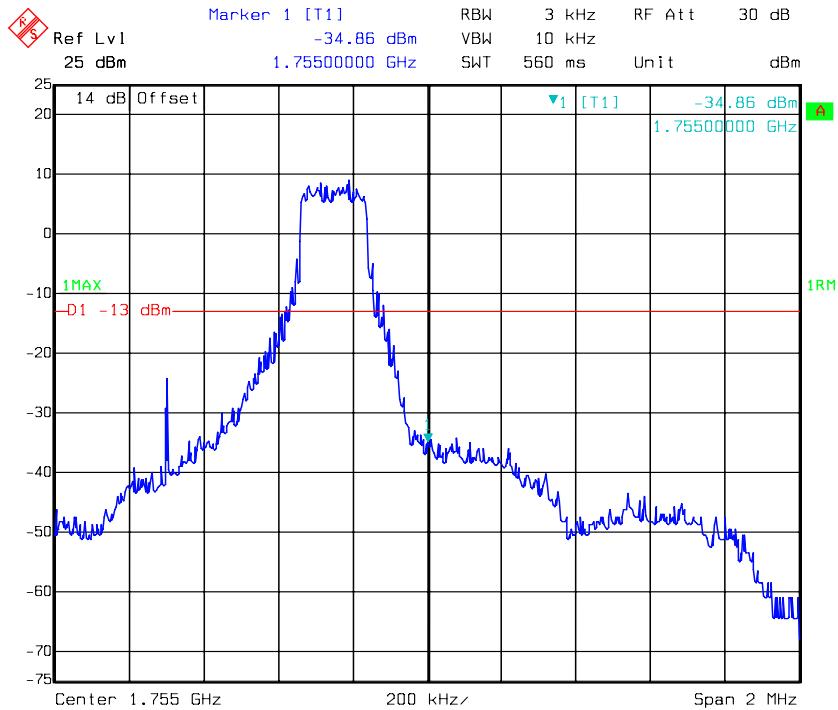
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16QAM-20M 100 RB, Right Band Edge

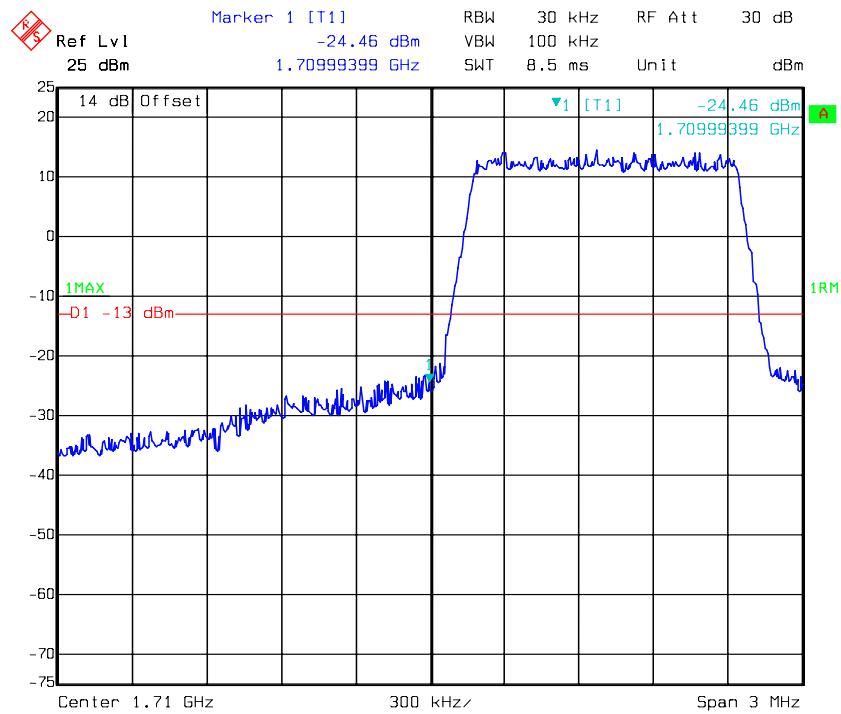
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LTE Band 4**QPSK-1.4M 1RB, Left Band Edge**

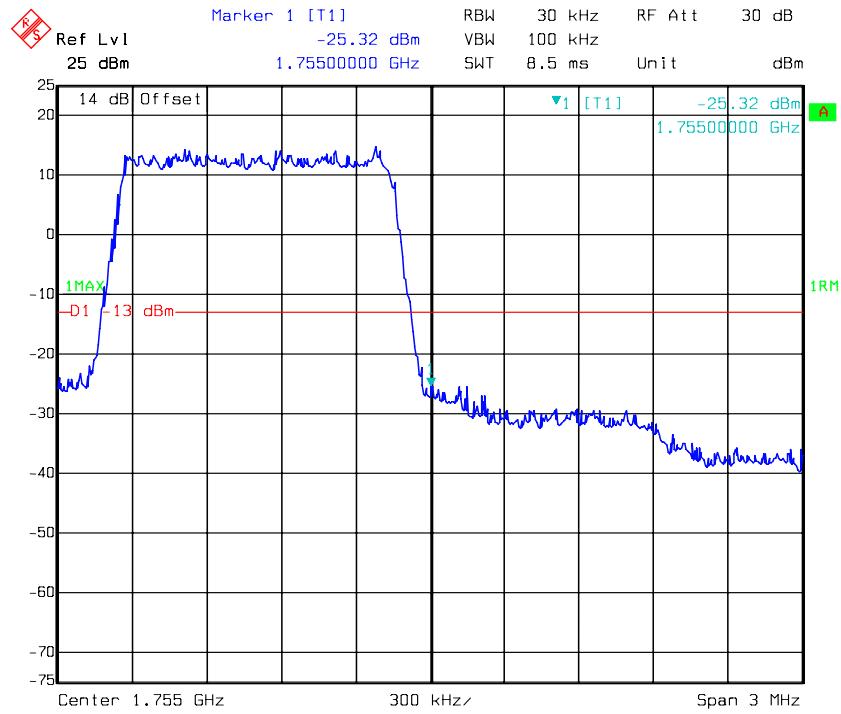
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QPSK-1.4M 1RB, Right Band Edge

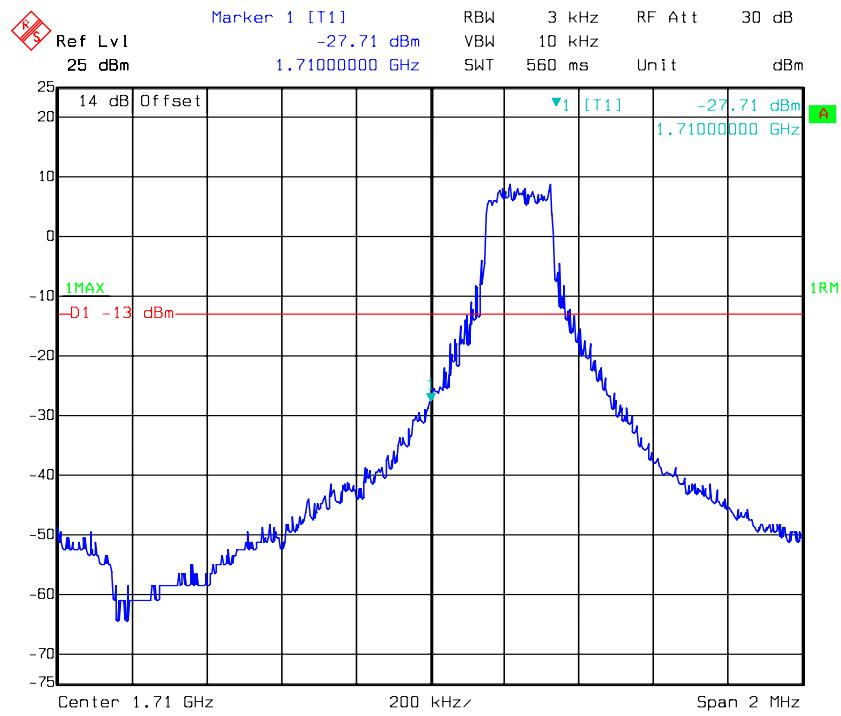
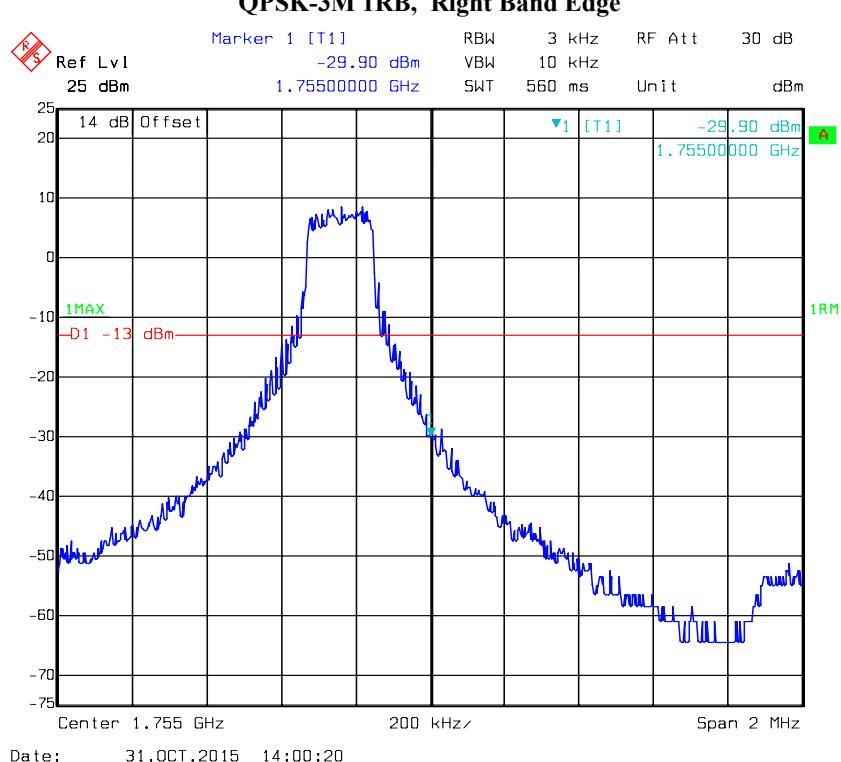
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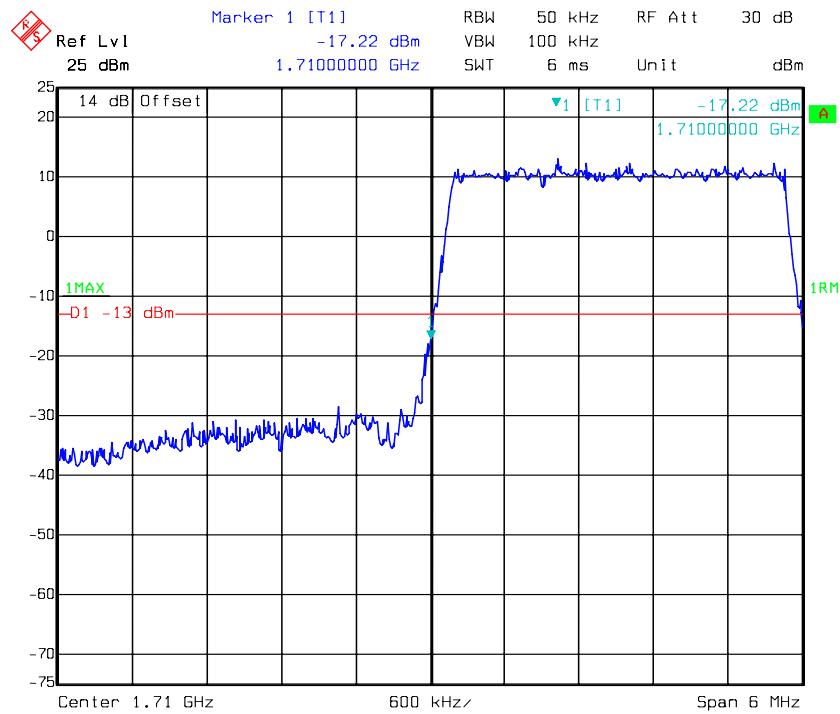
QPSK-1.4M 6RB, Left Band Edge

Date: 31.OCT.2015 13:49:50

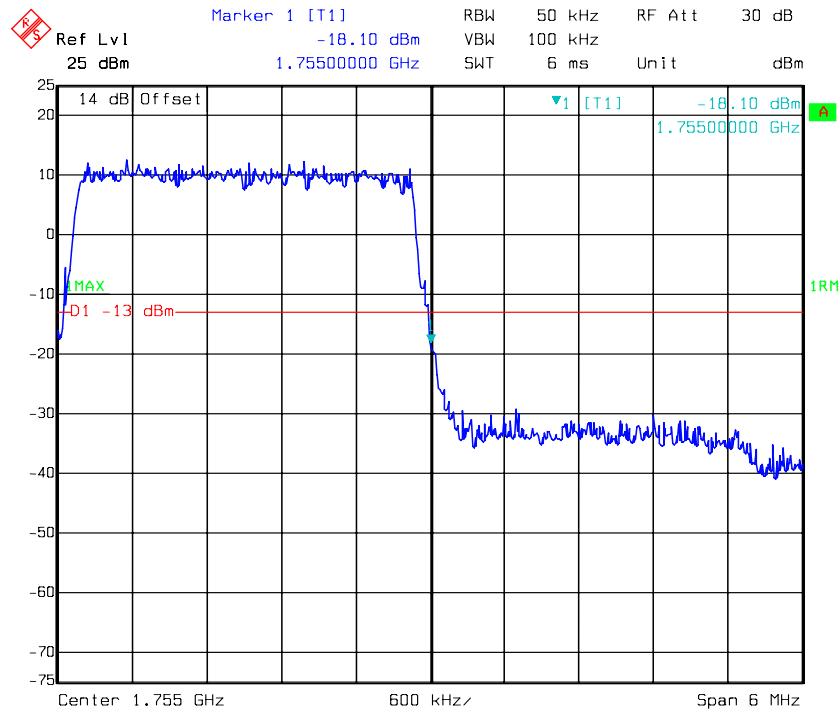
QPSK-1.4M 6RB, Right Band Edge

Date: 31.OCT.2015 13:48:46

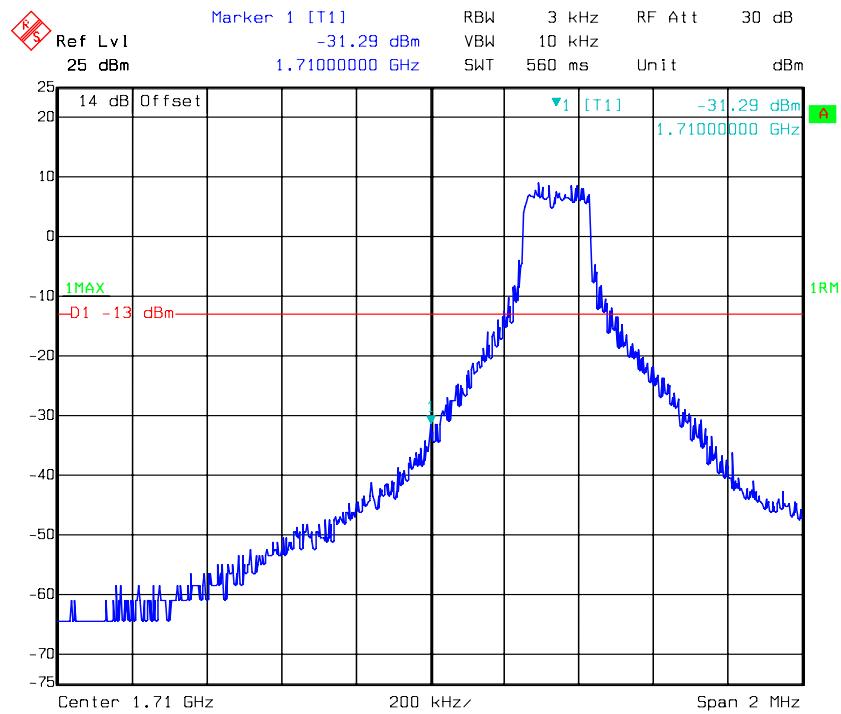
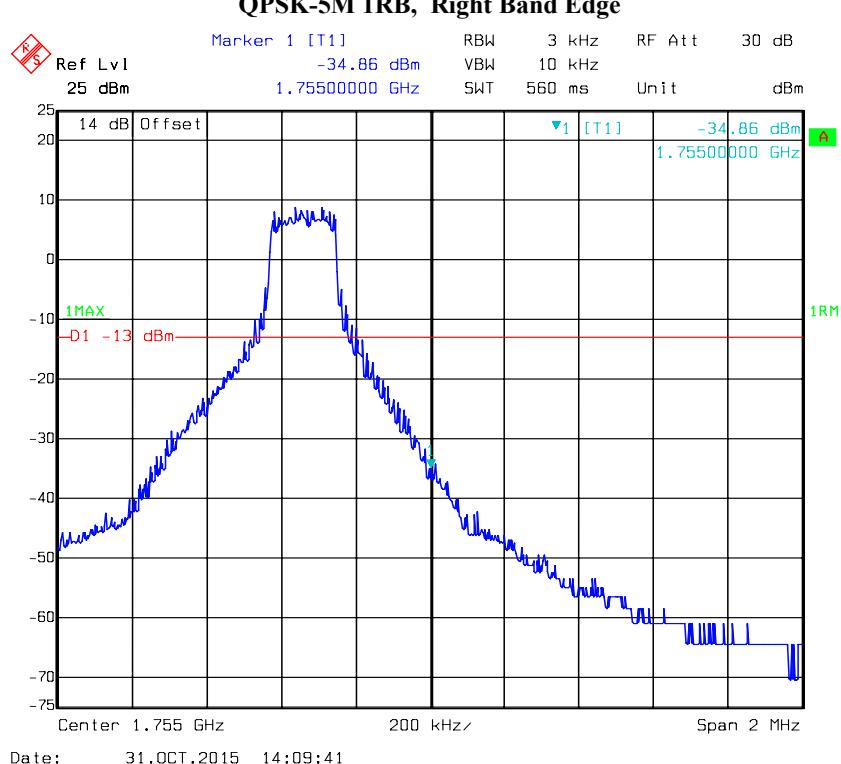
QPSK-3M 1RB, Left Band Edge**QPSK-3M 1RB, Right Band Edge**

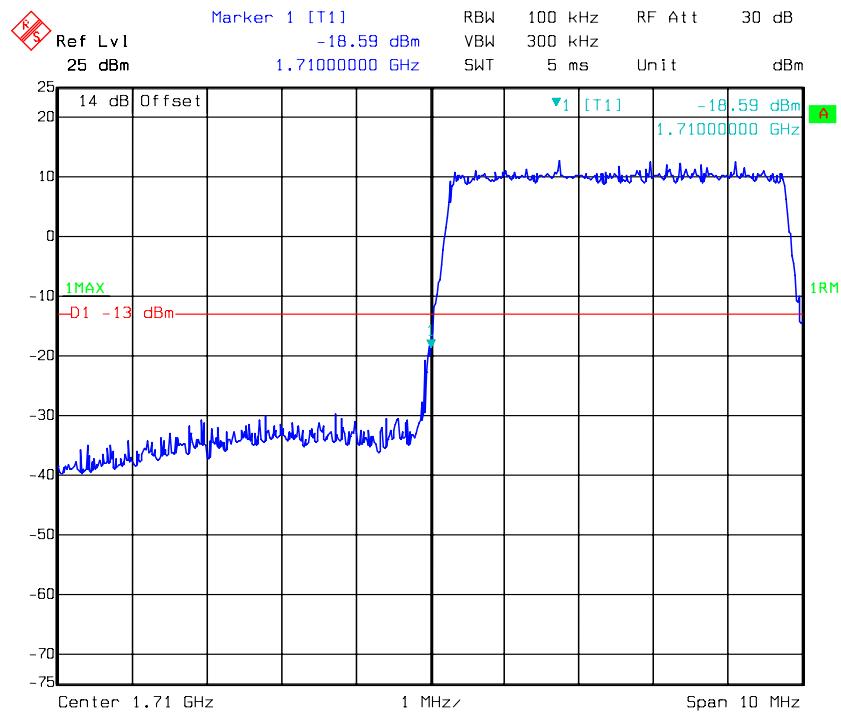
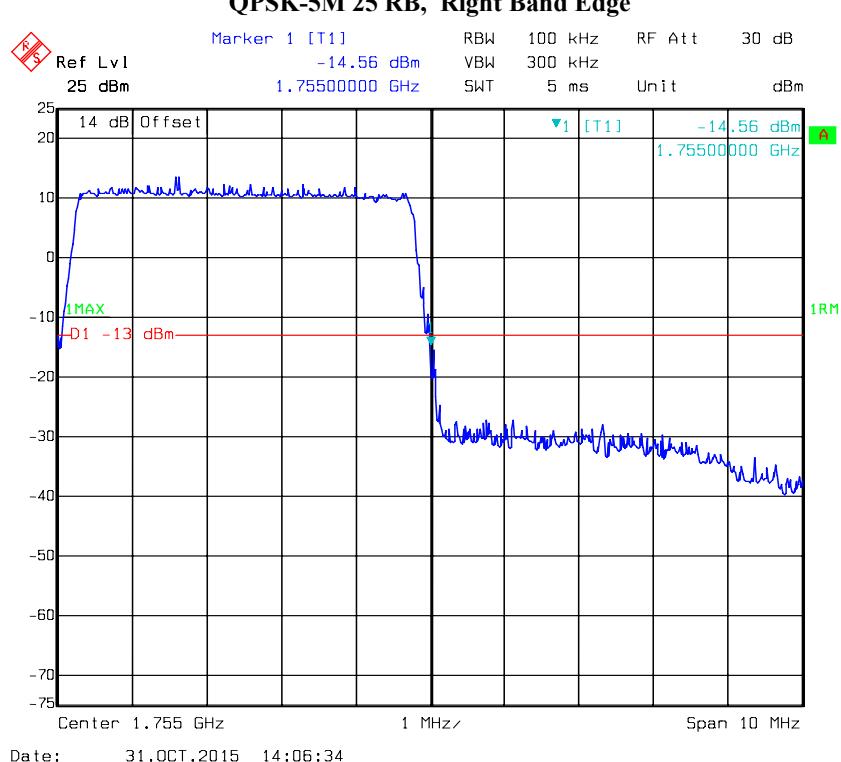
QPSK-3M 15 RB, Left Band Edge

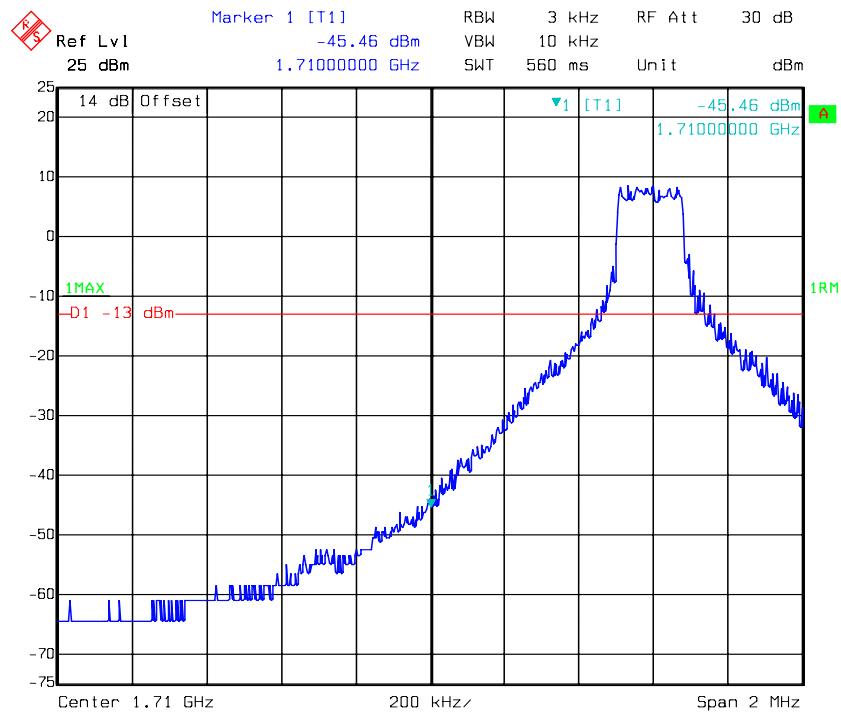
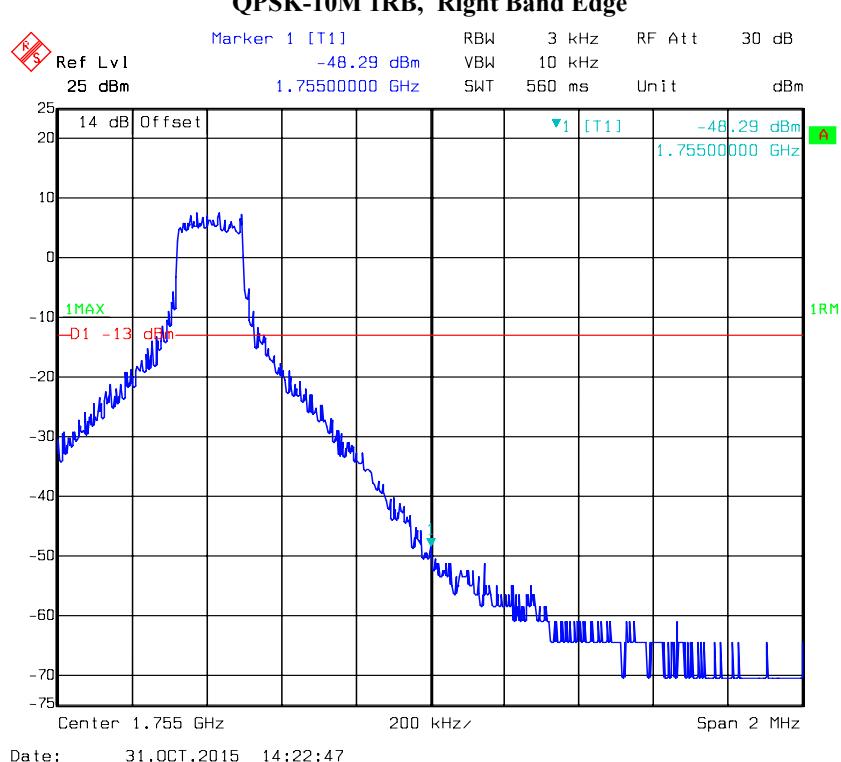
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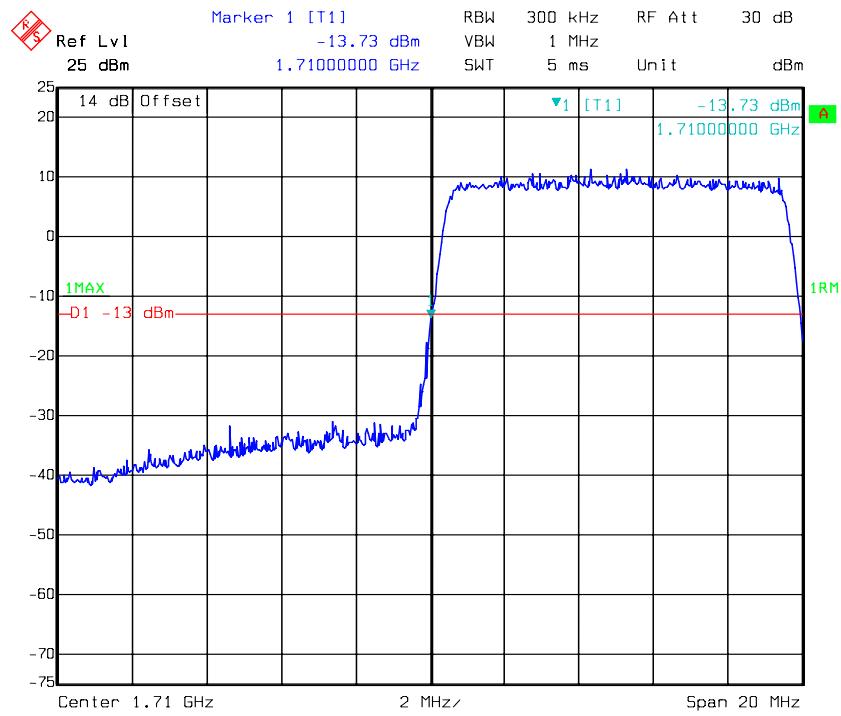
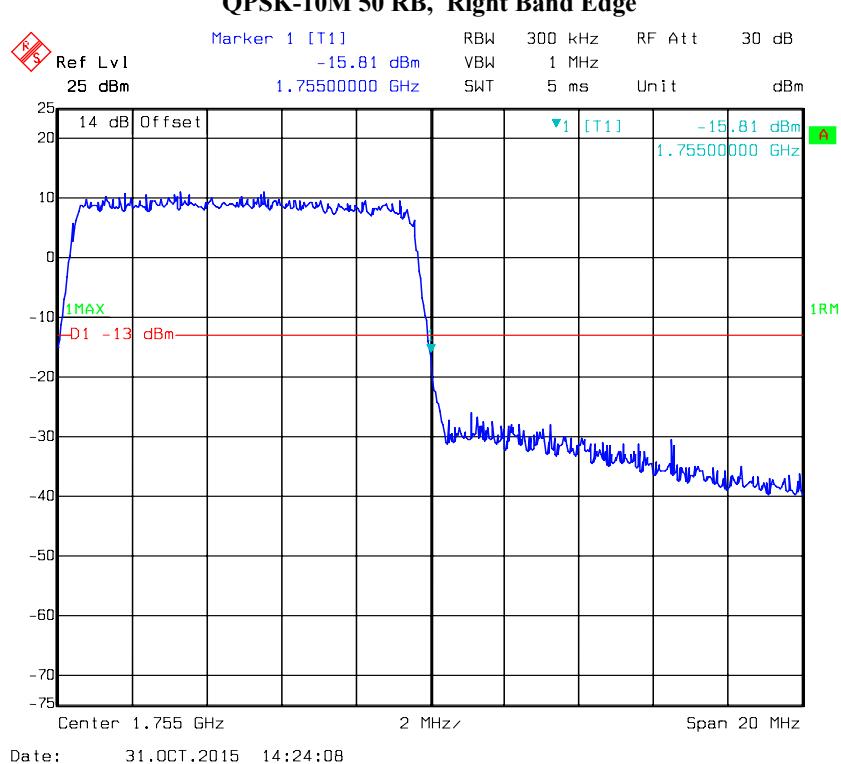
QPSK-3M 15 RB, Right Band Edge

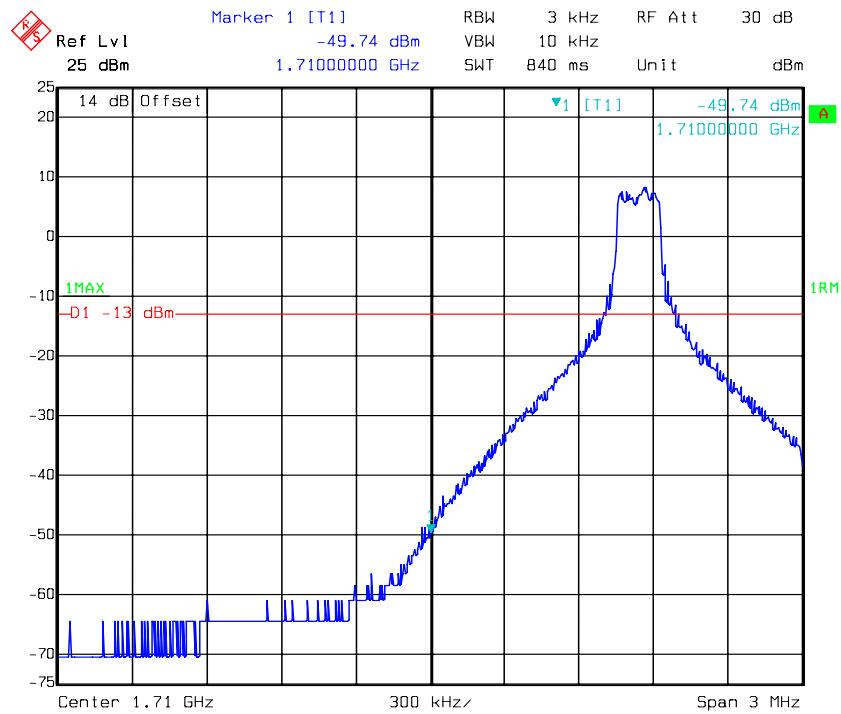
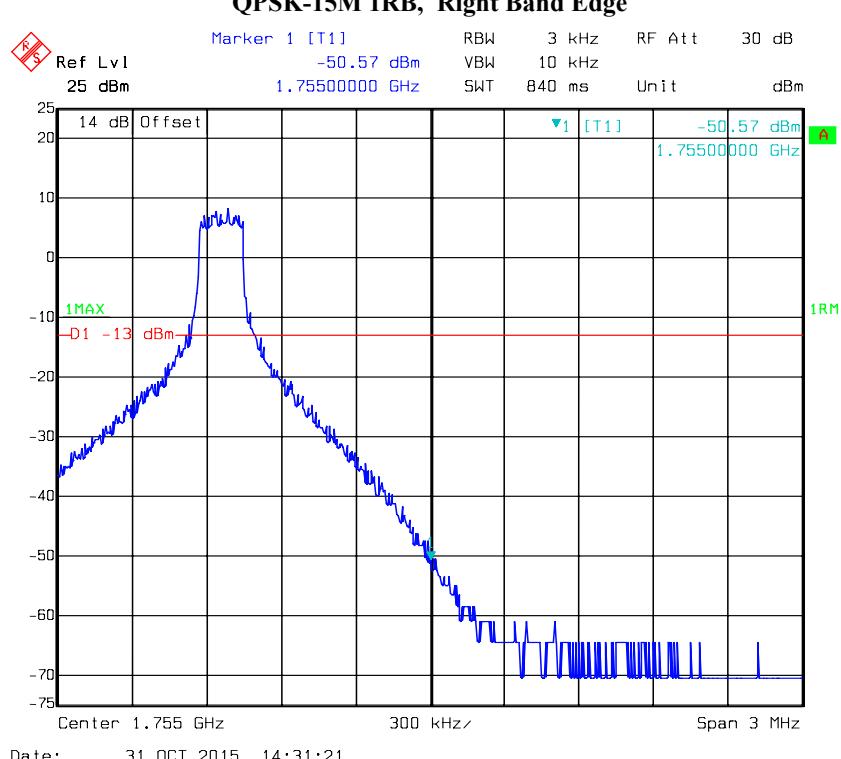
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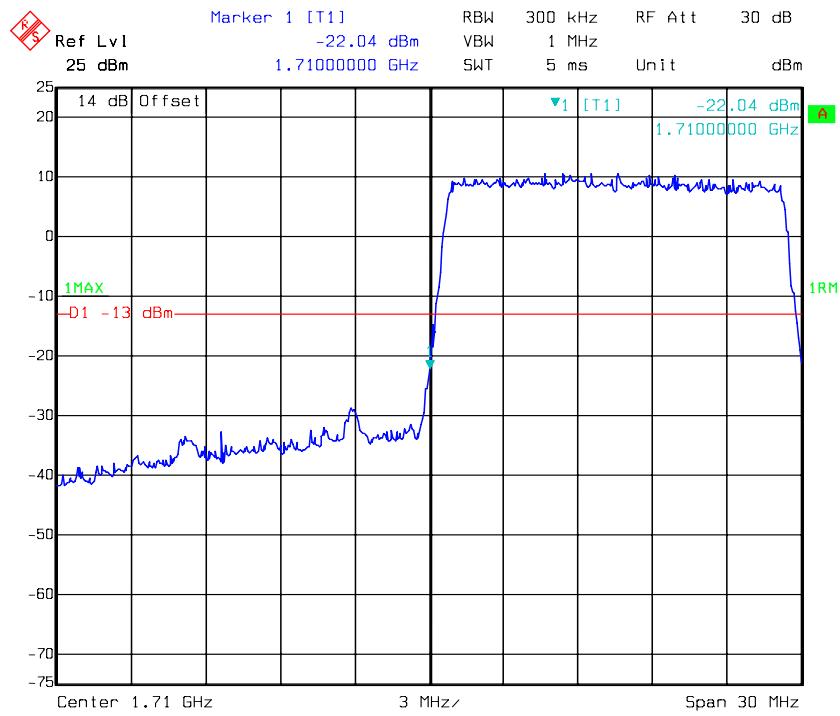
QPSK-5M 1RB, Left Band Edge**QPSK-5M 1RB, Right Band Edge**

QPSK-5M 25 RB, Left Band Edge**QPSK-5M 25 RB, Right Band Edge**

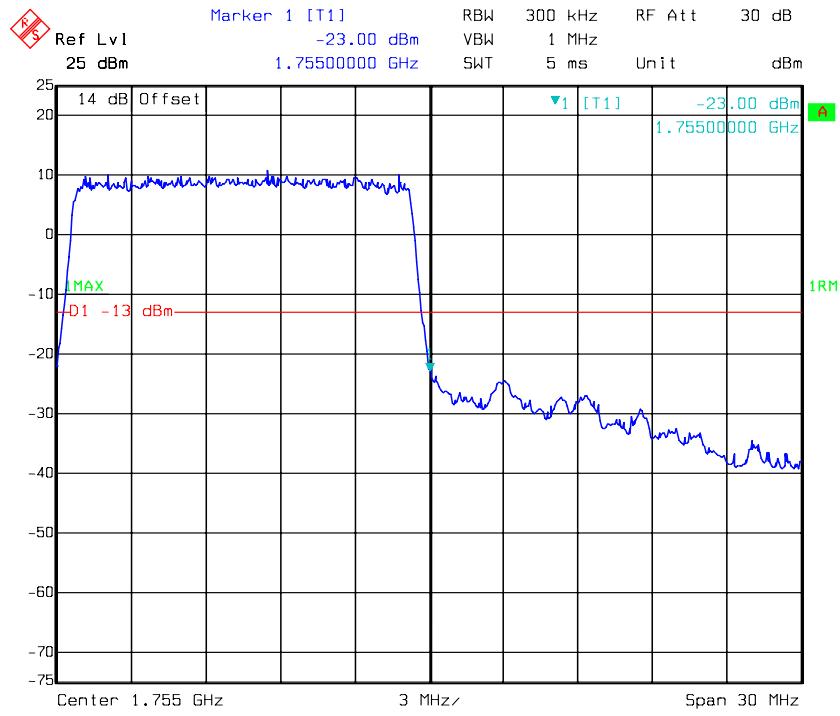
QPSK-10M 1RB, Left Band Edge**QPSK-10M 1RB, Right Band Edge**

QPSK-10M 50 RB, Left Band Edge**QPSK-10M 50 RB, Right Band Edge**

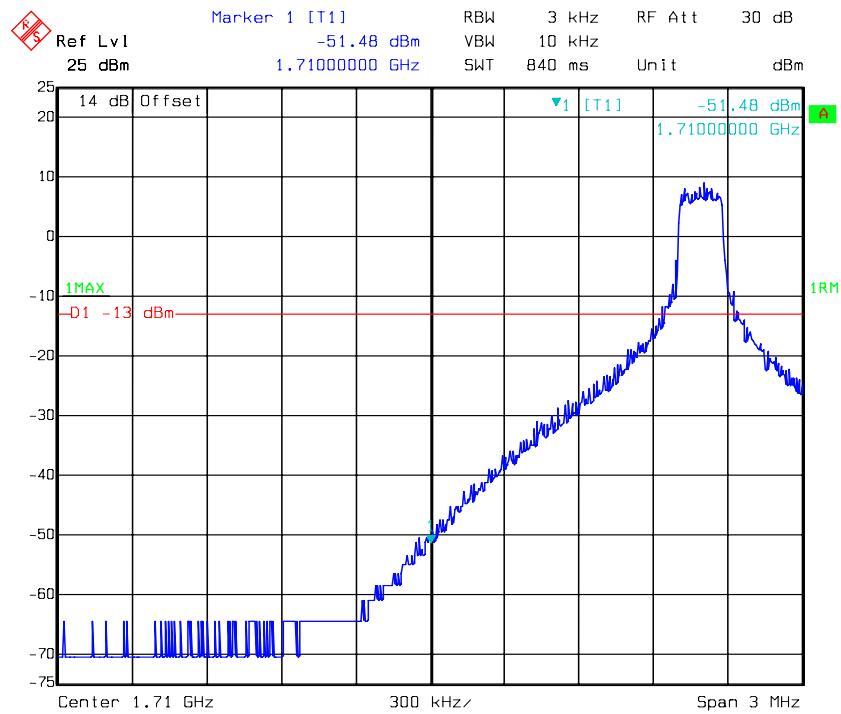
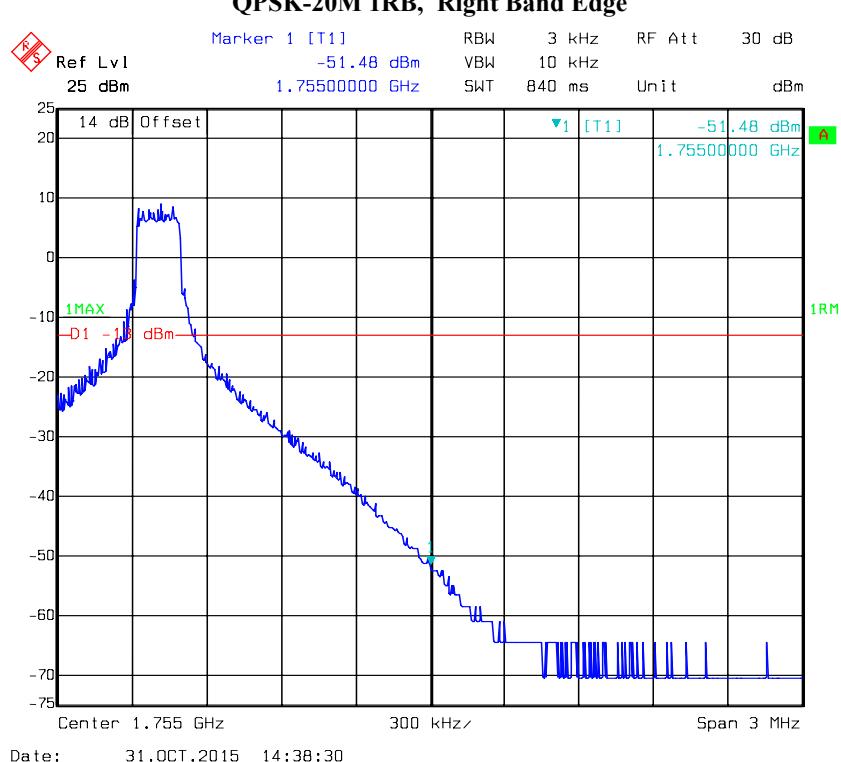
QPSK-15M 1RB, Left Band Edge**QPSK-15M 1RB, Right Band Edge**

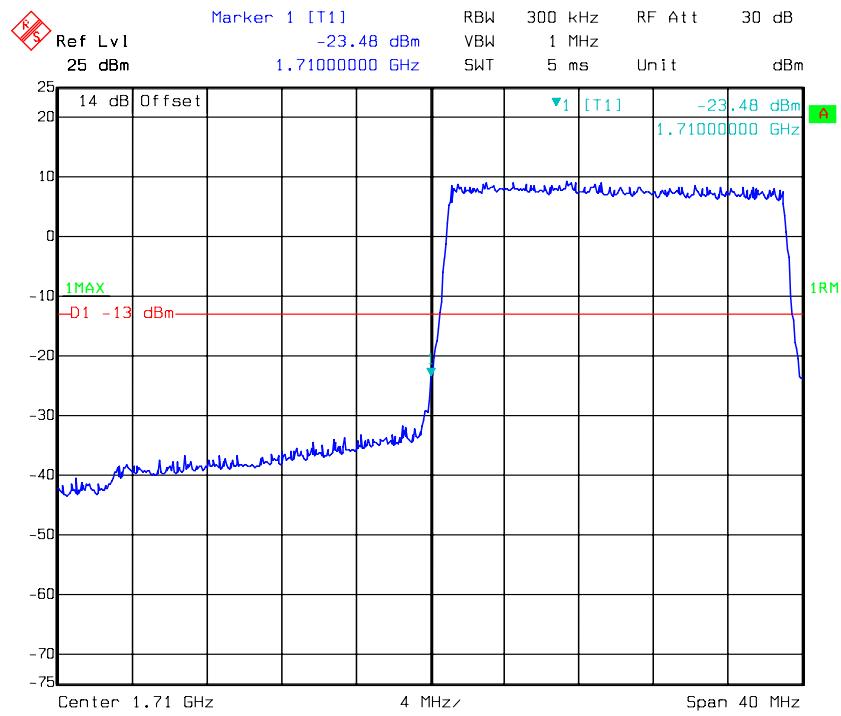
QPSK-15M 75 RB, Left Band Edge

Date: 31.OCT.2015 14:27:35

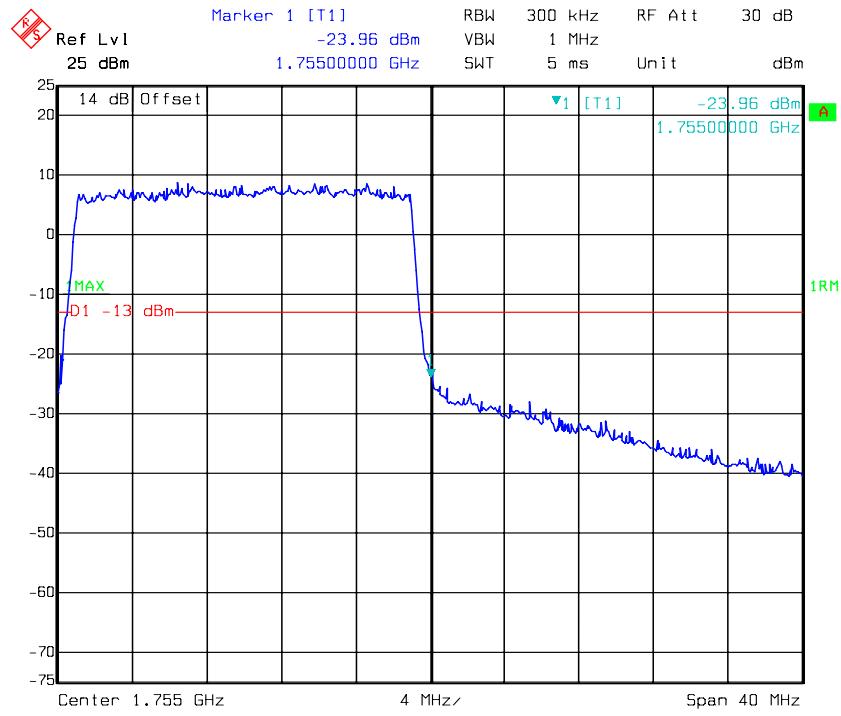
QPSK-15M 75 RB, Right Band Edge

Date: 31.OCT.2015 14:28:22

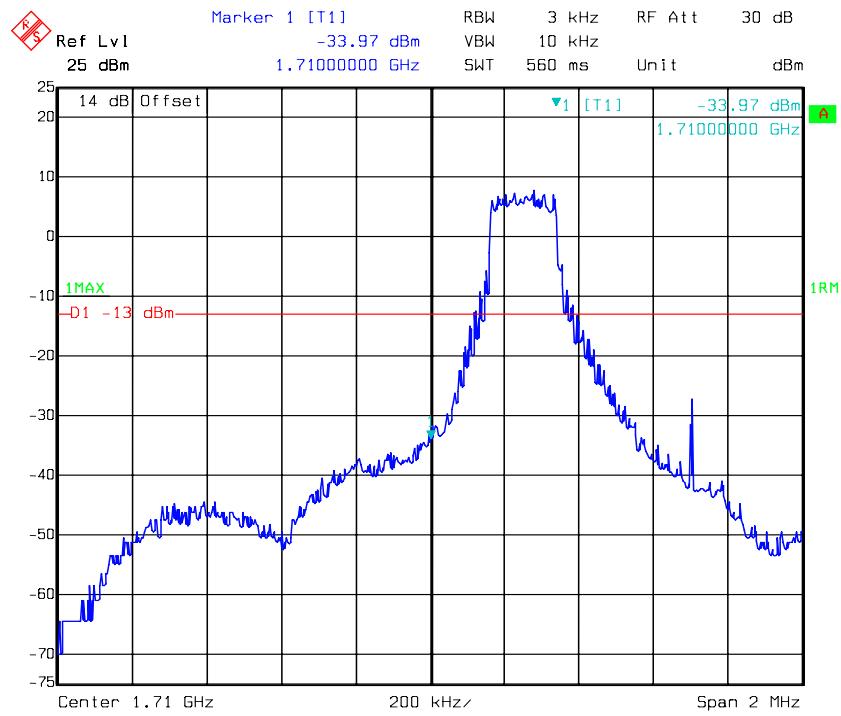
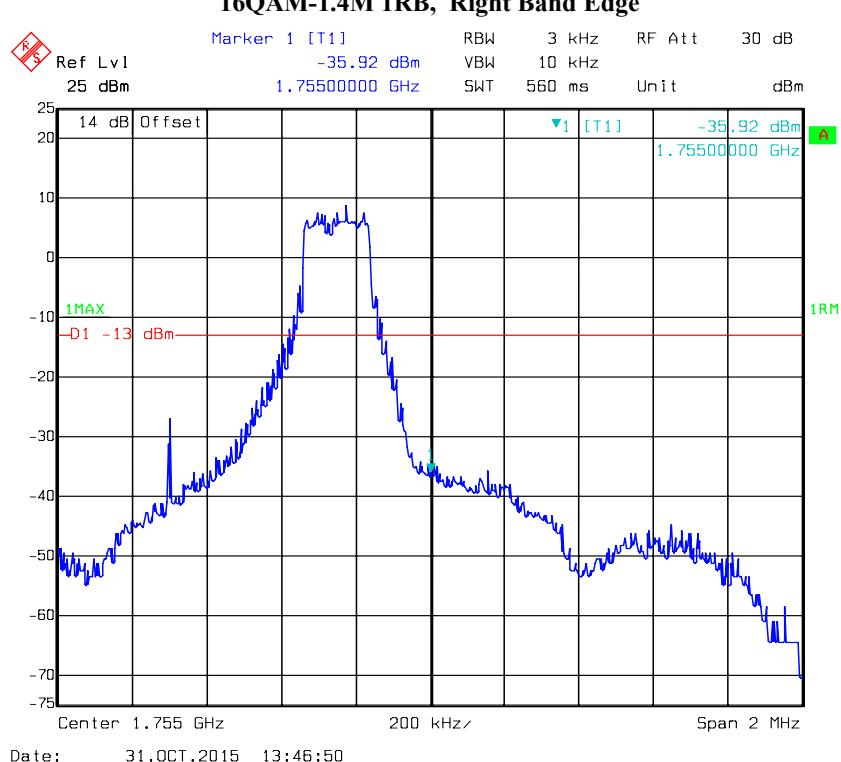
QPSK-20M 1RB, Left Band Edge**QPSK-20M 1RB, Right Band Edge**

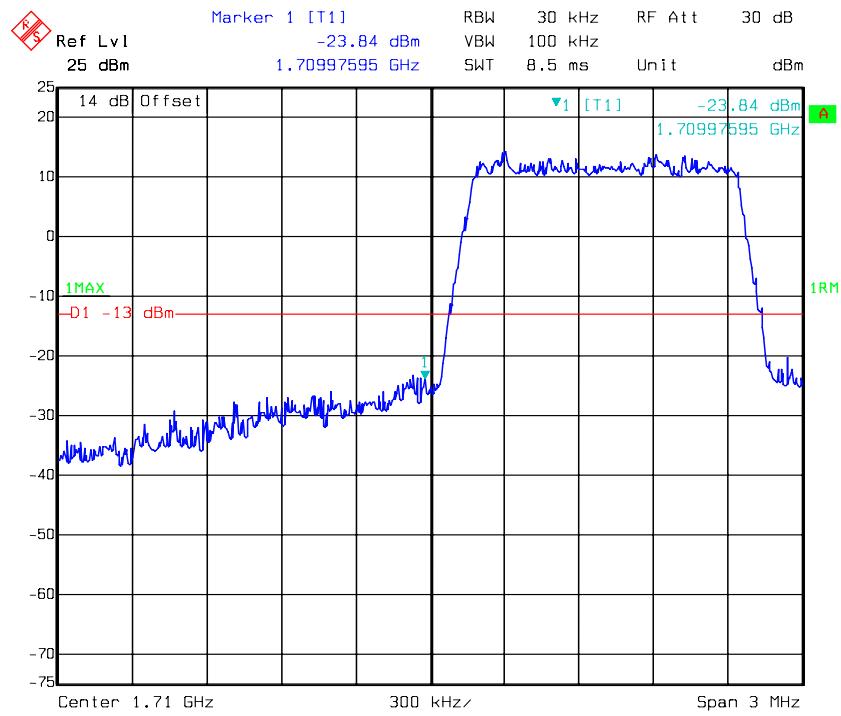
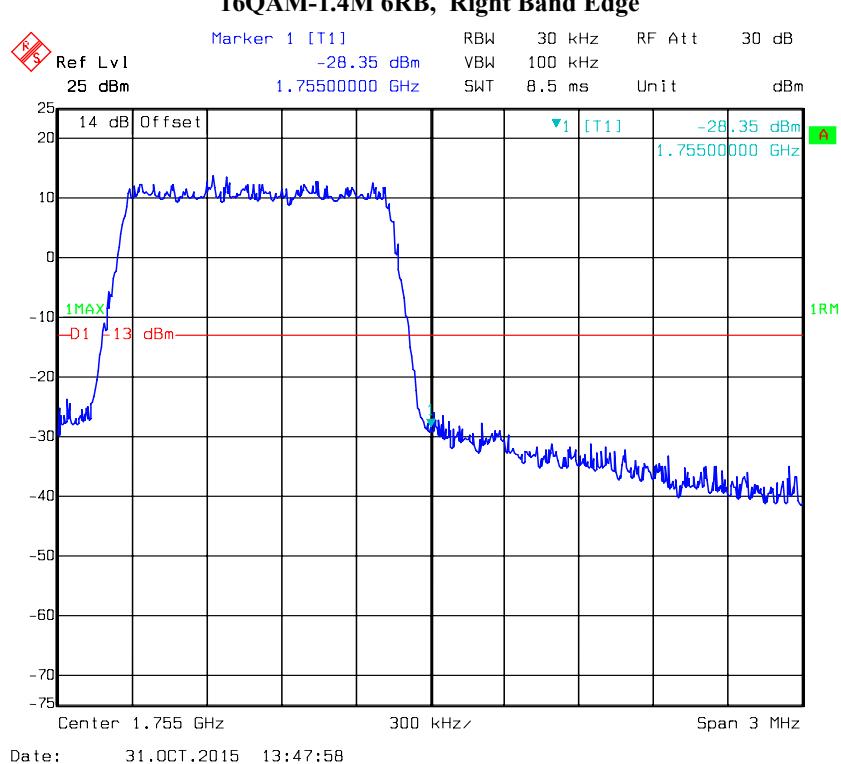
QPSK-20M 100 RB, Left Band Edge

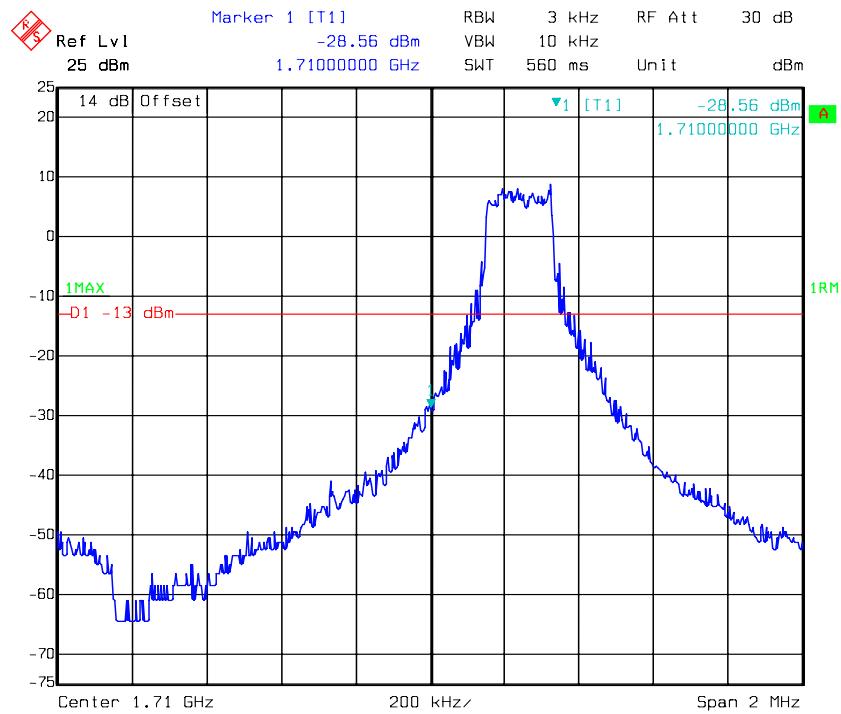
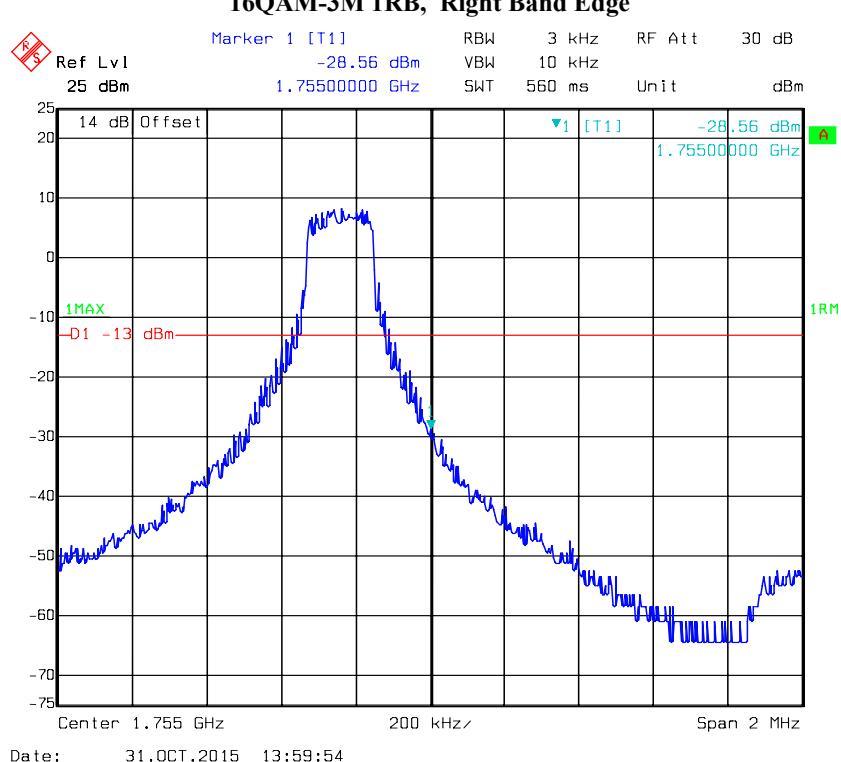
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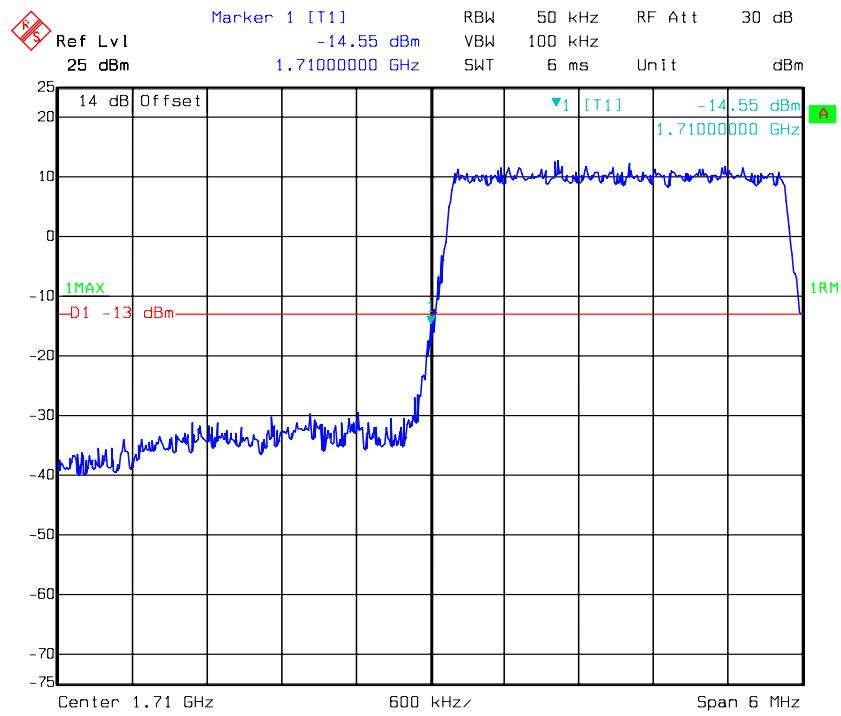
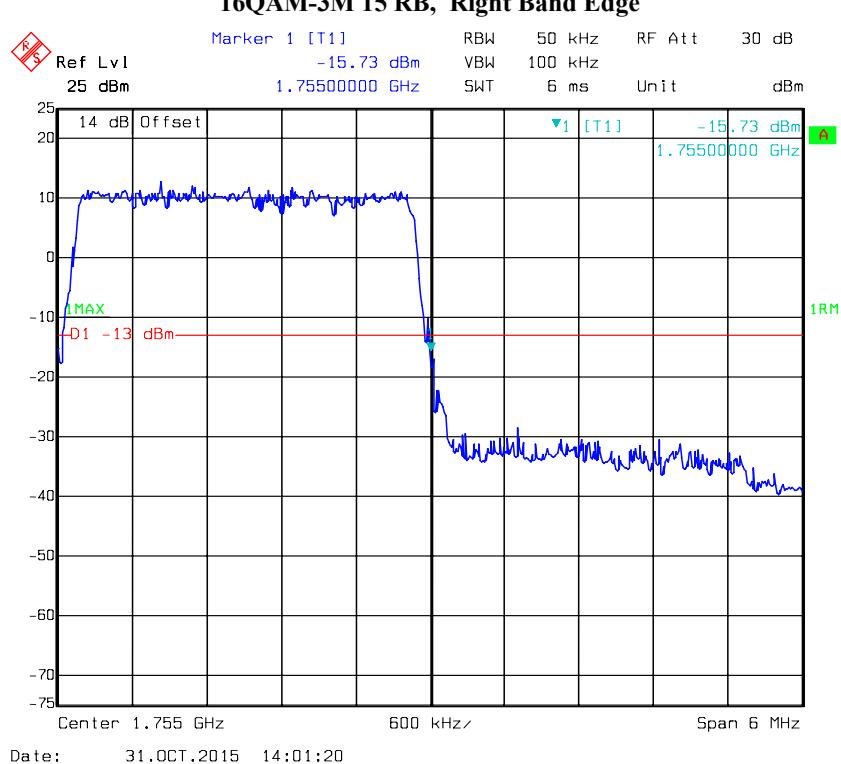
QPSK-20M 100 RB, Right Band Edge

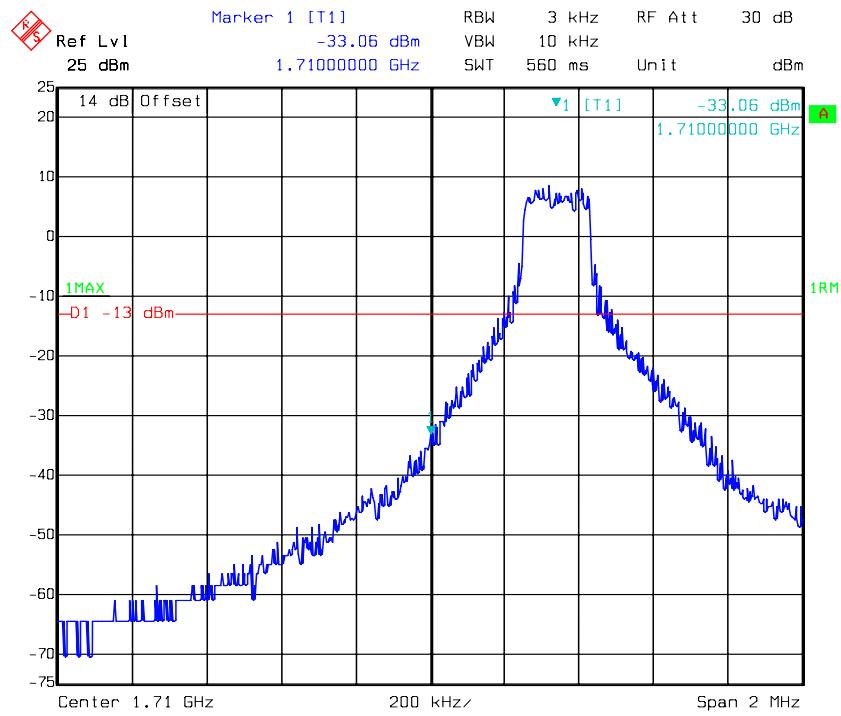
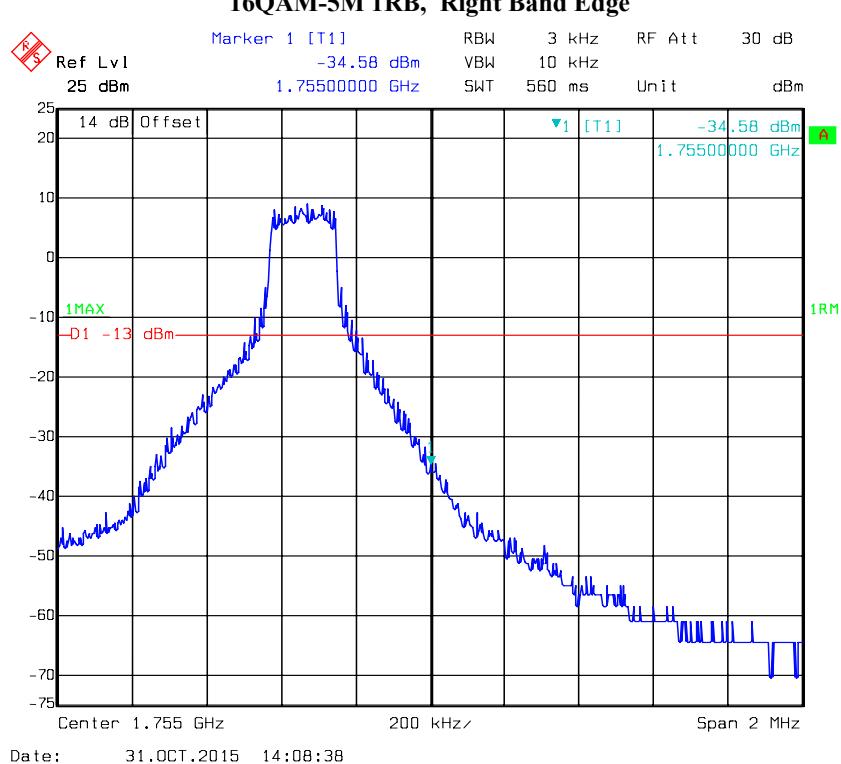
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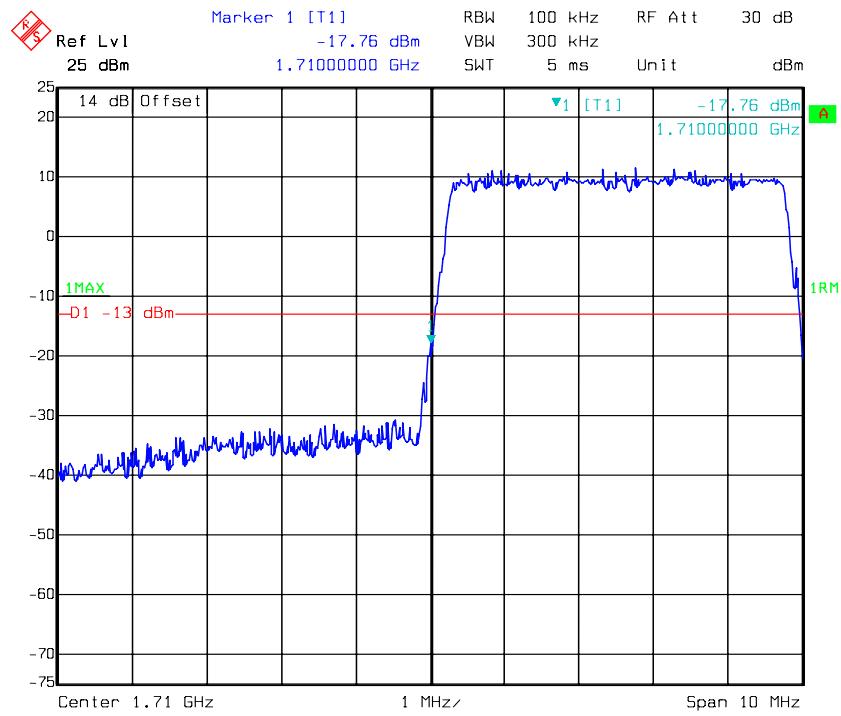
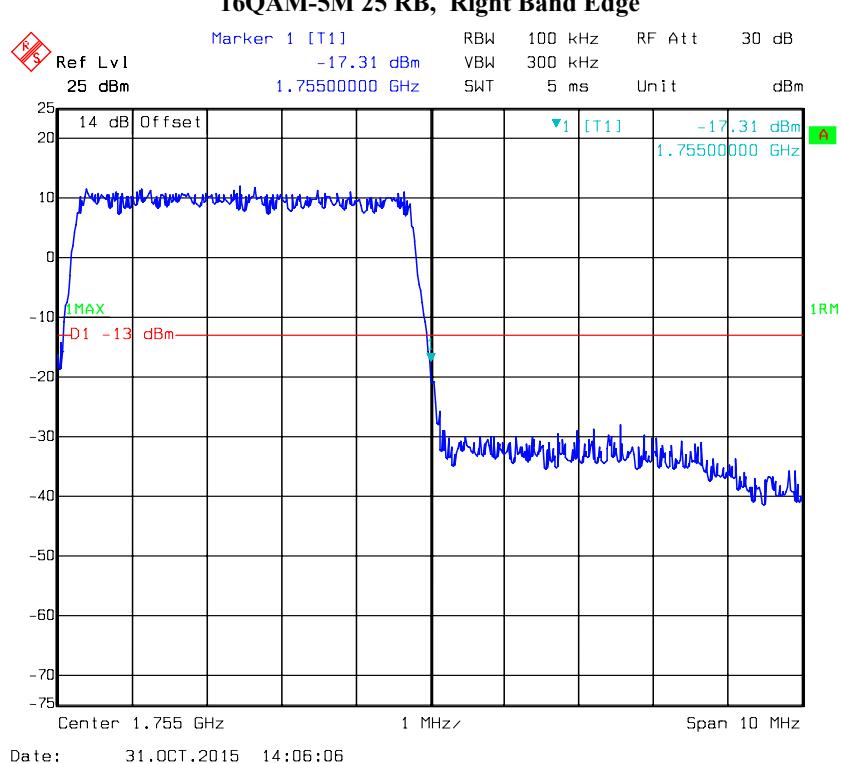
16QAM-1.4M 1RB, Left Band Edge**16QAM-1.4M 1RB, Right Band Edge**

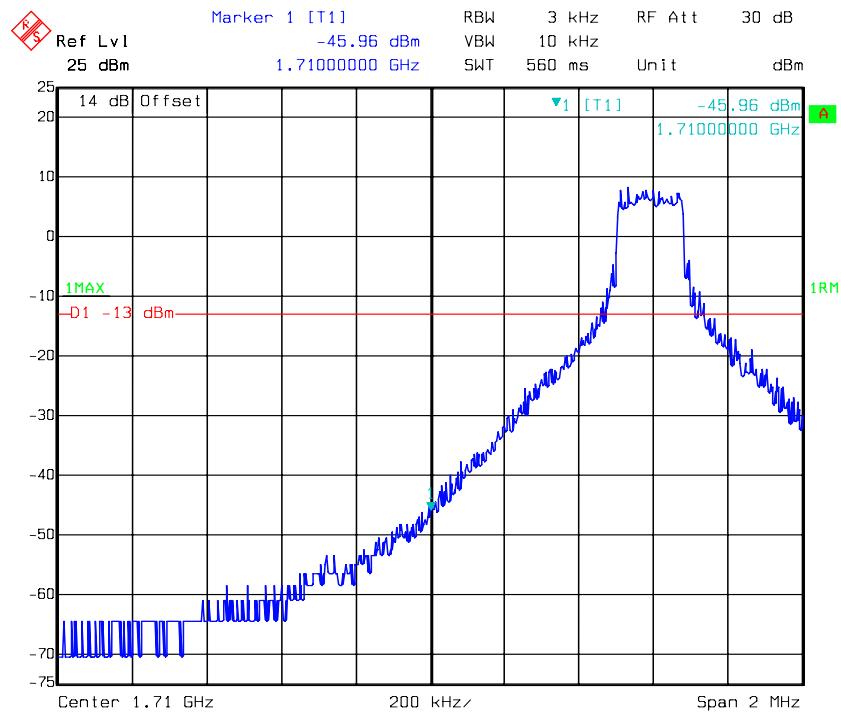
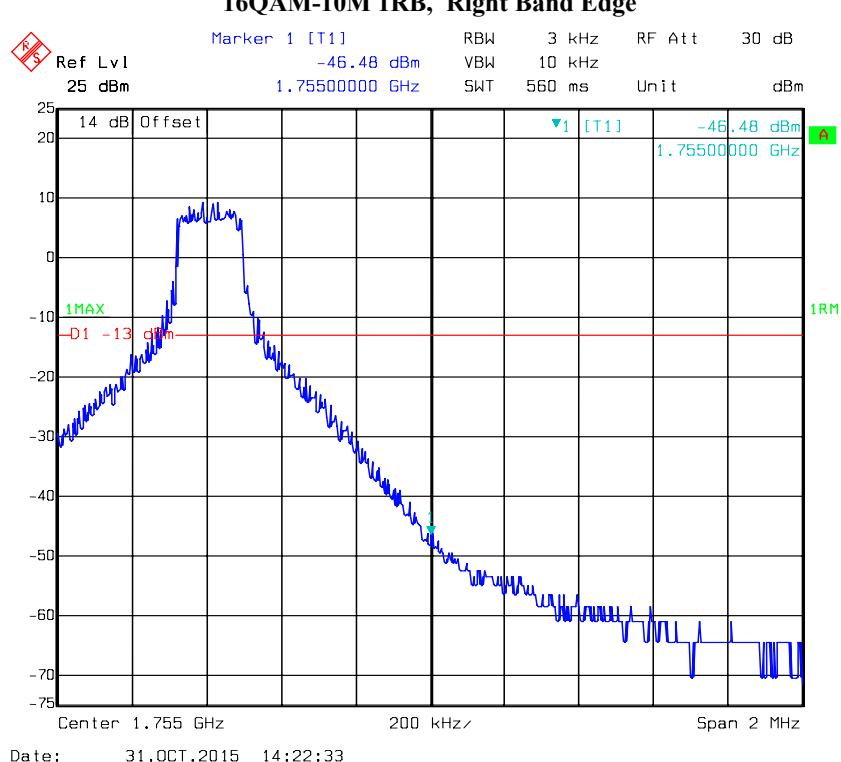
16QAM-1.4M 6RB, Left Band Edge**16QAM-1.4M 6RB, Right Band Edge**

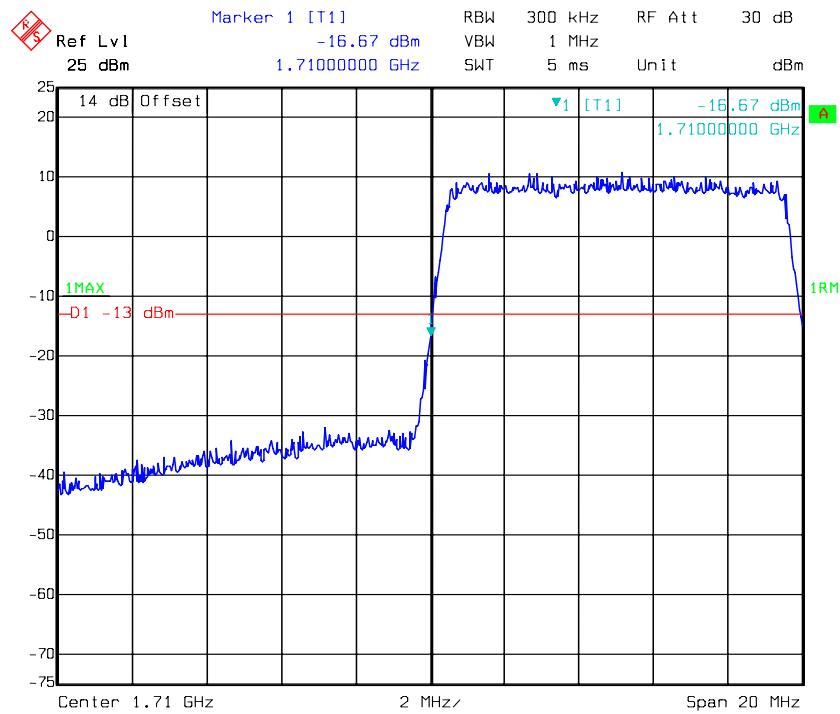
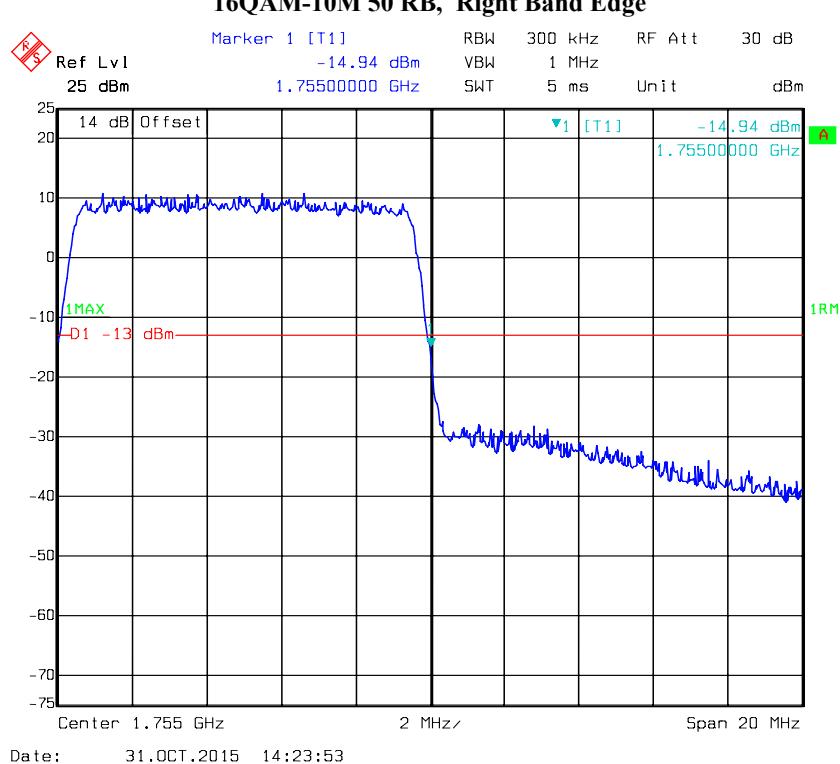
16QAM-3M 1RB, Left Band Edge**16QAM-3M 1RB, Right Band Edge**

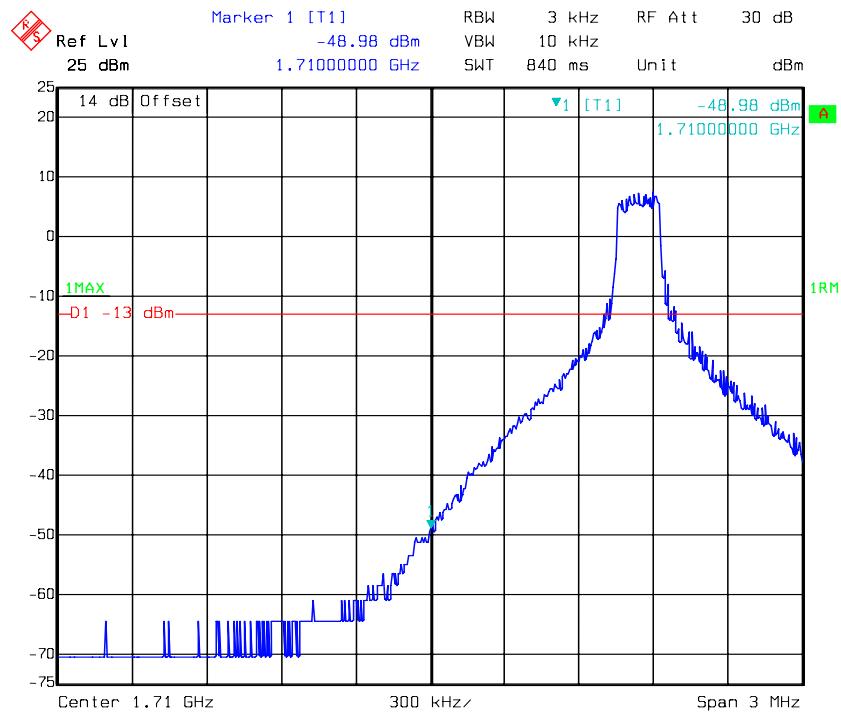
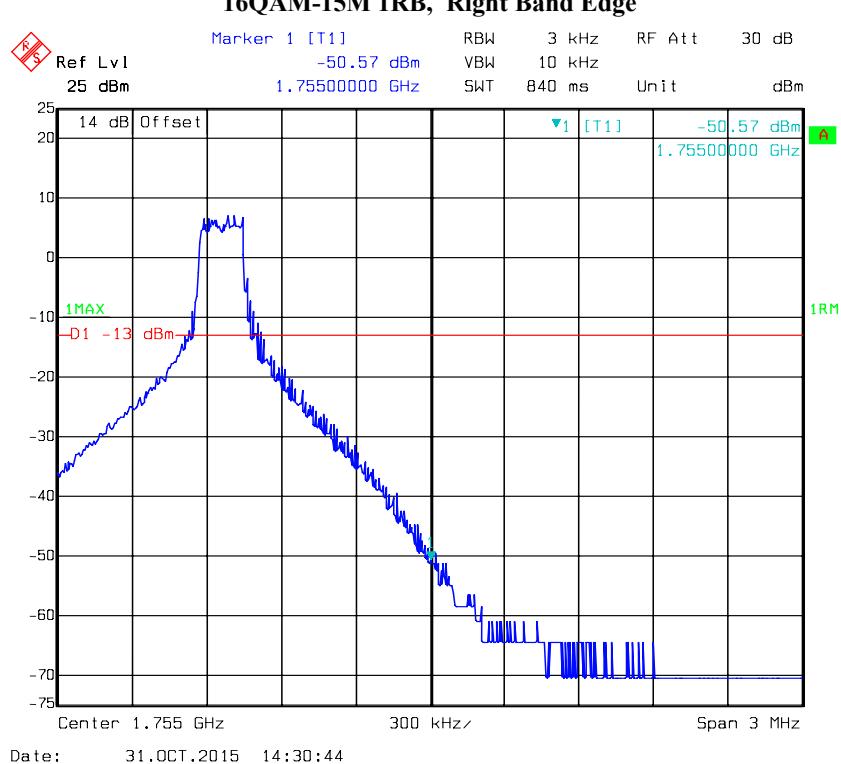
16QAM-3M 15 RB, Left Band Edge**16QAM-3M 15 RB, Right Band Edge**

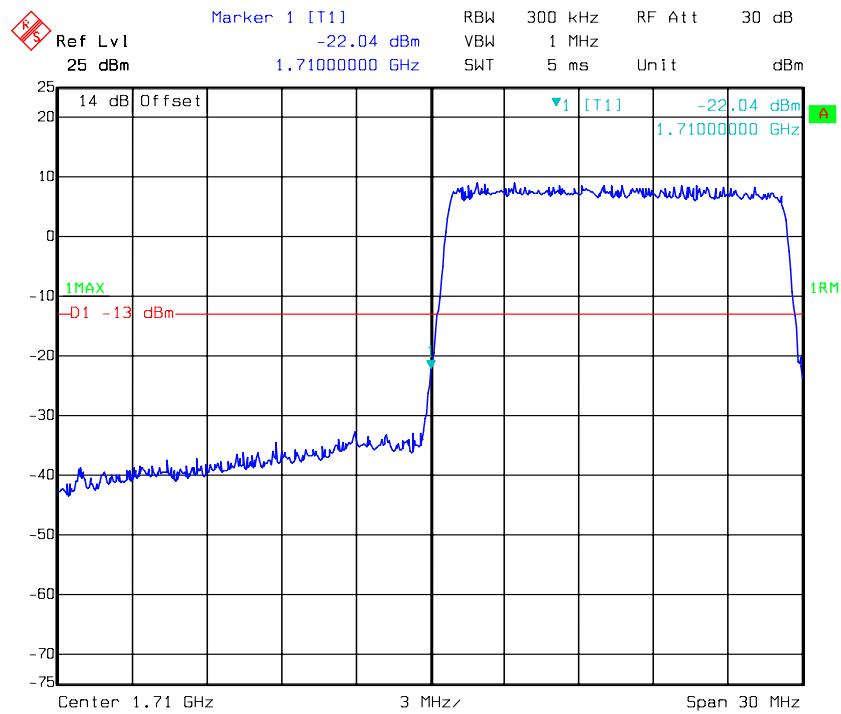
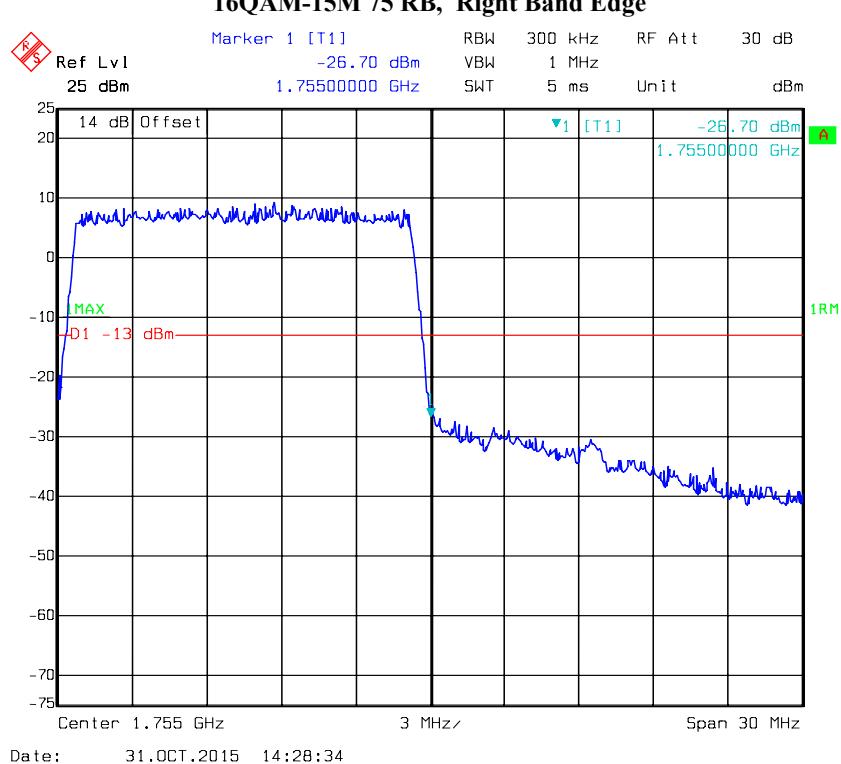
16QAM-5M 1RB, Left Band Edge**16QAM-5M 1RB, Right Band Edge**

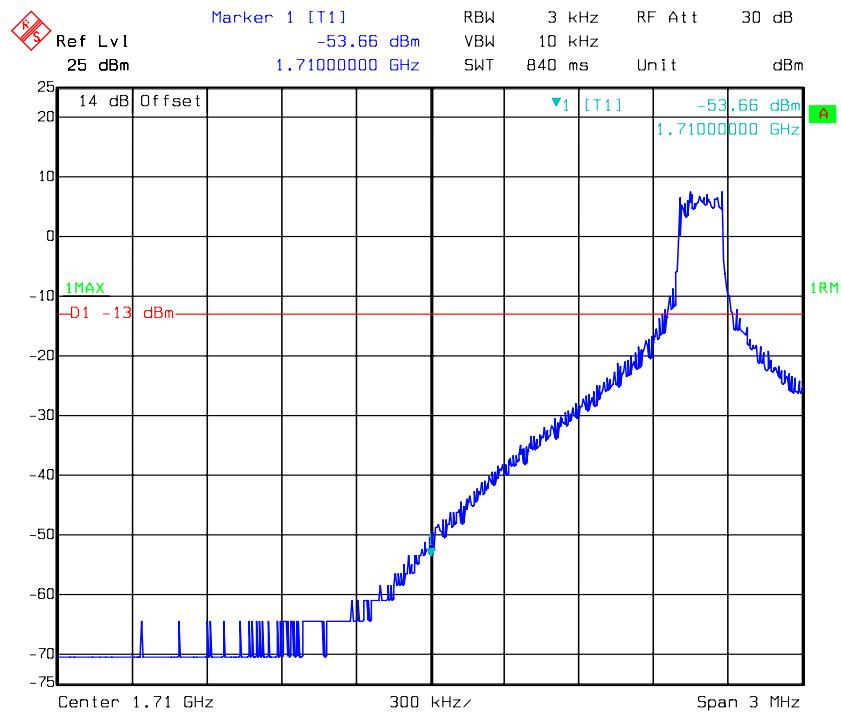
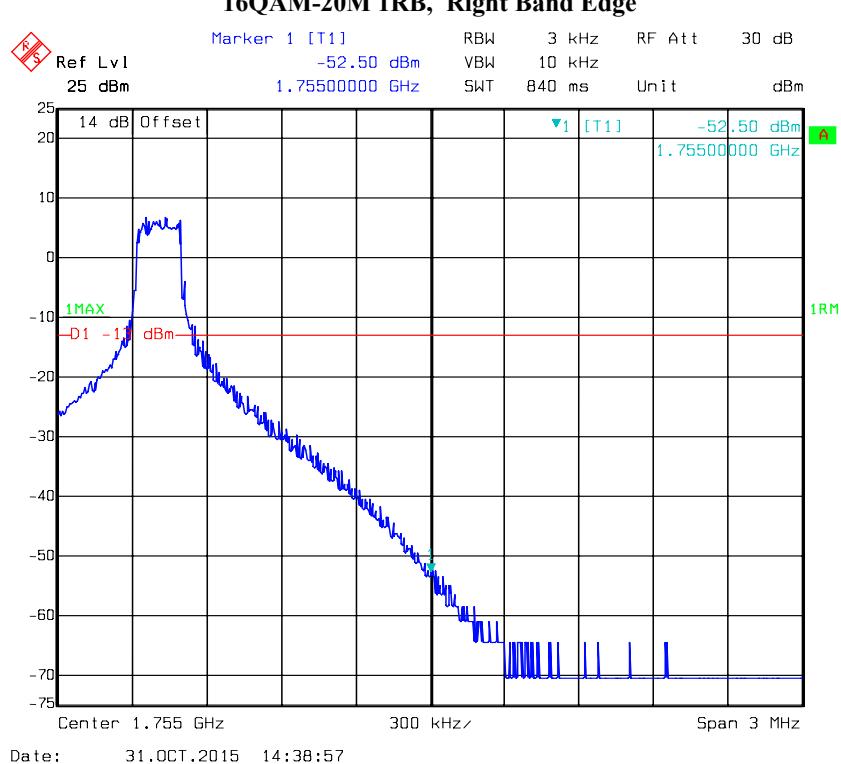
16QAM-5M 25 RB, Left Band Edge**16QAM-5M 25 RB, Right Band Edge**

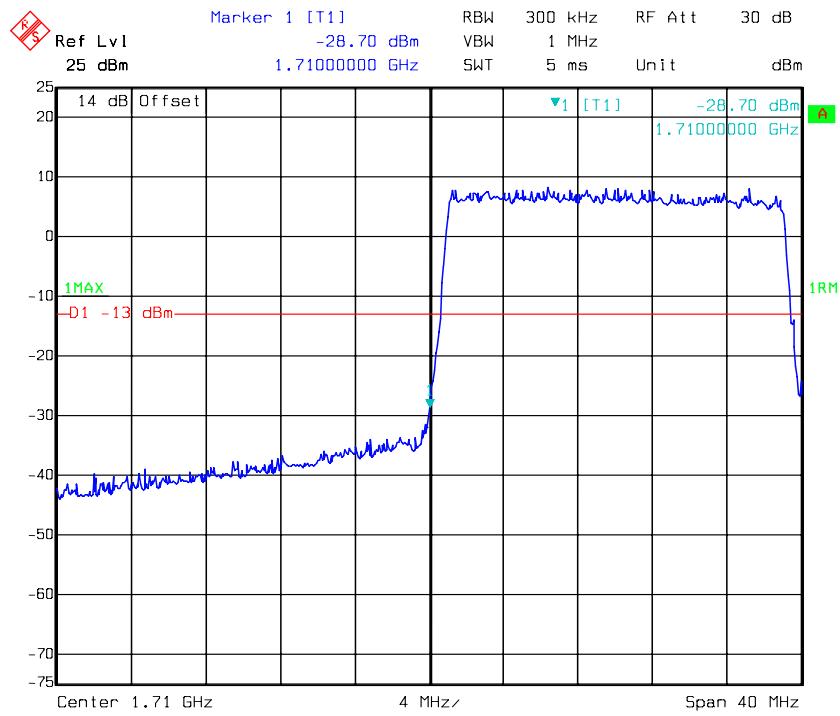
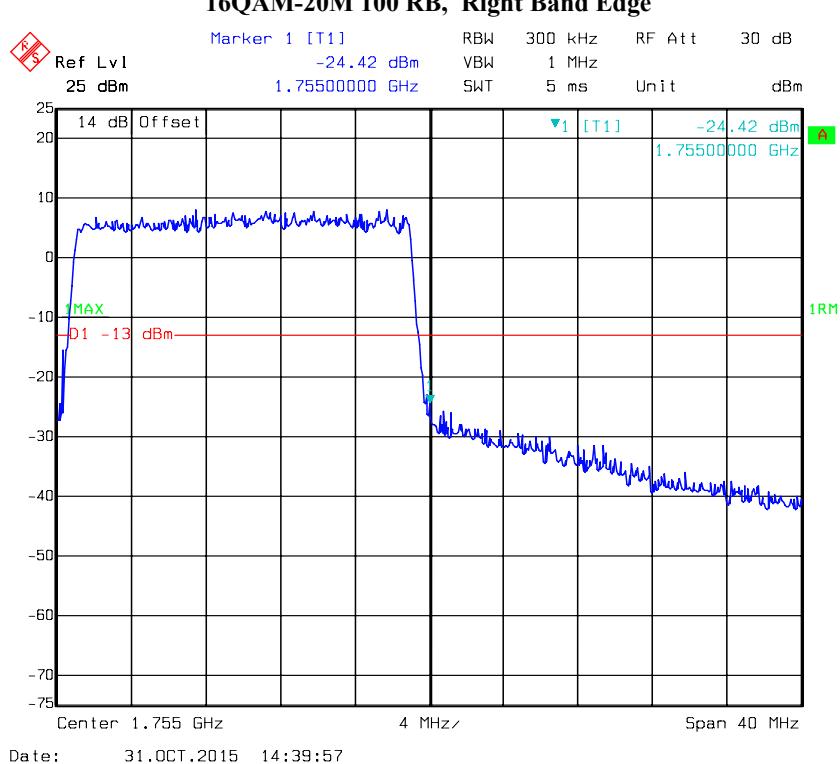
16QAM-10M 1RB, Left Band Edge**16QAM-10M 1RB, Right Band Edge**

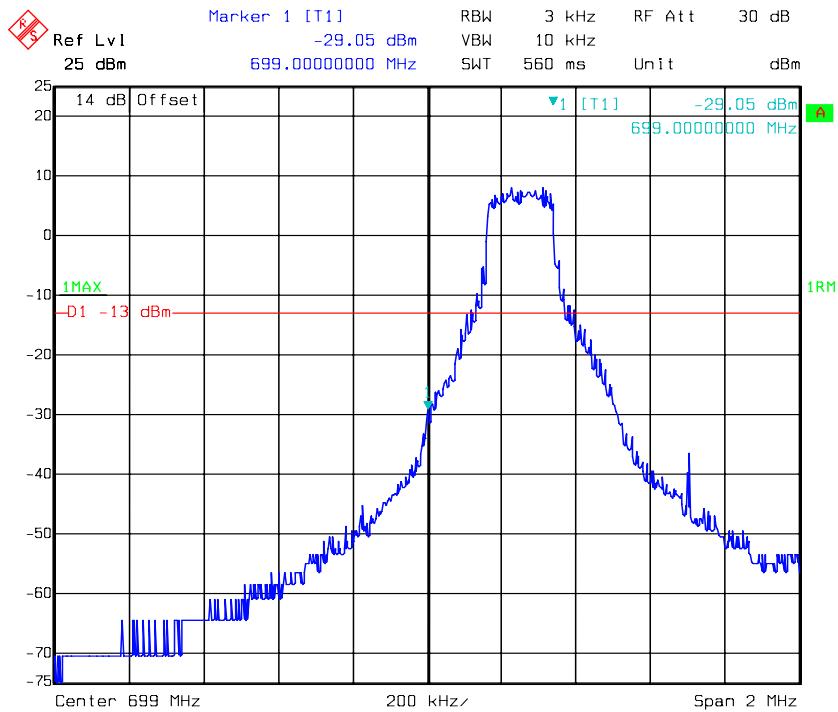
16QAM-10M 50 RB, Left Band Edge**16QAM-10M 50 RB, Right Band Edge**

16QAM-15M 1RB, Left Band Edge**16QAM-15M 1RB, Right Band Edge**

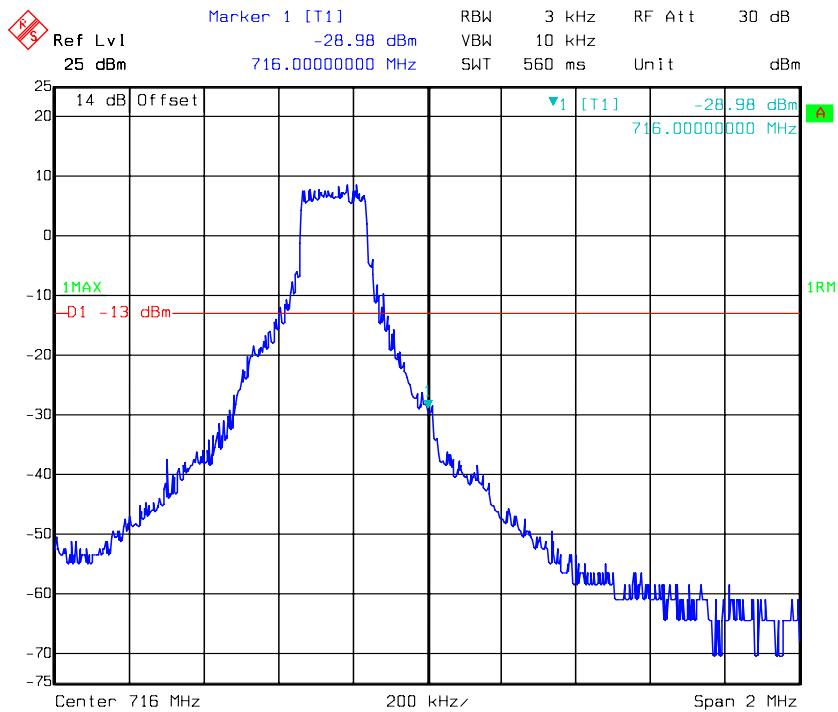
16QAM-15M 75 RB, Left Band Edge**16QAM-15M 75 RB, Right Band Edge**

QPSK-20M 1RB, Left Band Edge**16QAM-20M 1RB, Right Band Edge**

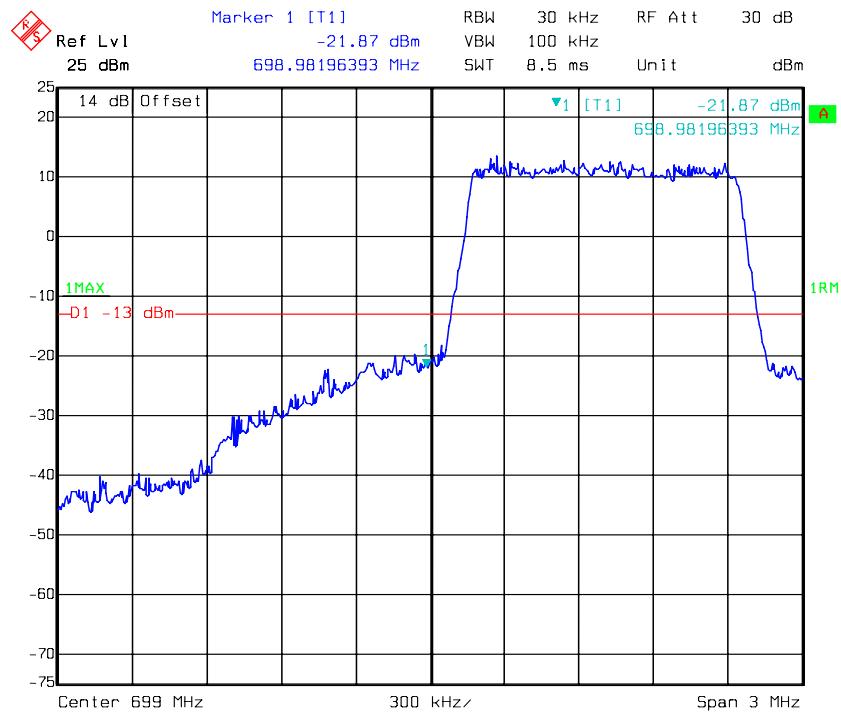
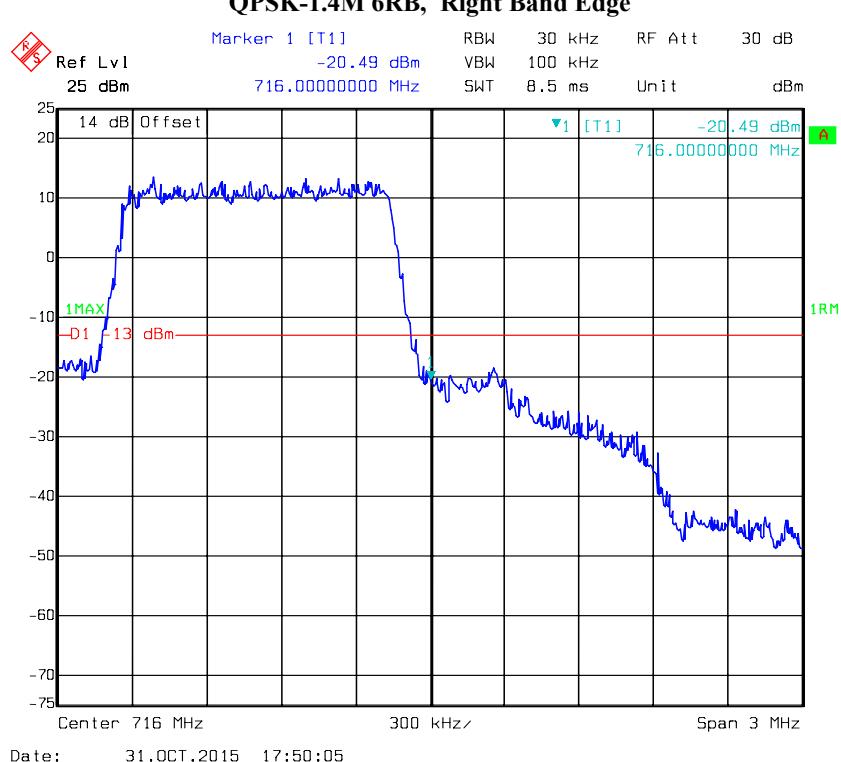
16QAM-20M 100 RB, Left Band Edge**16QAM-20M 100 RB, Right Band Edge**

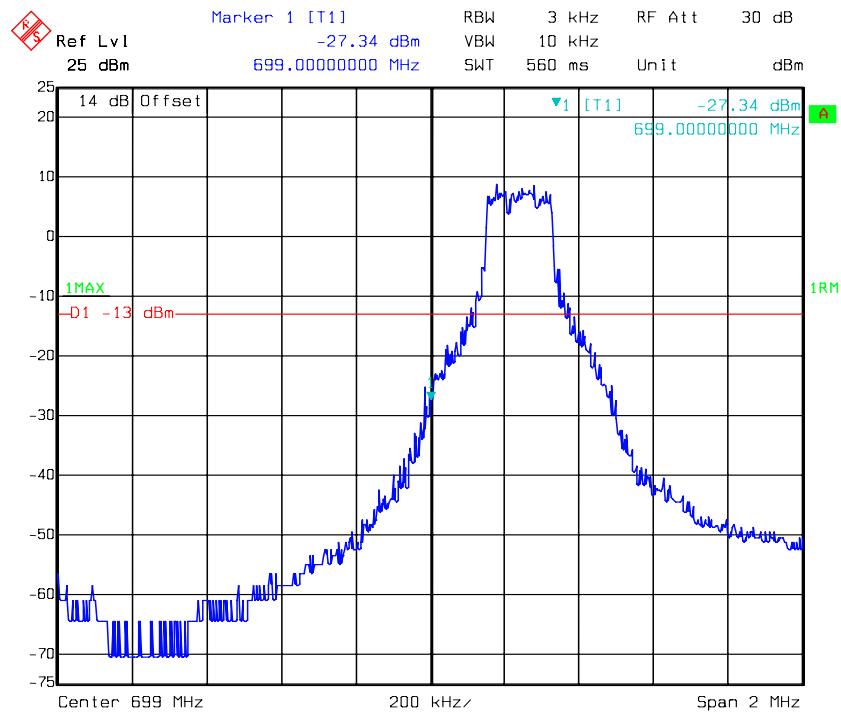
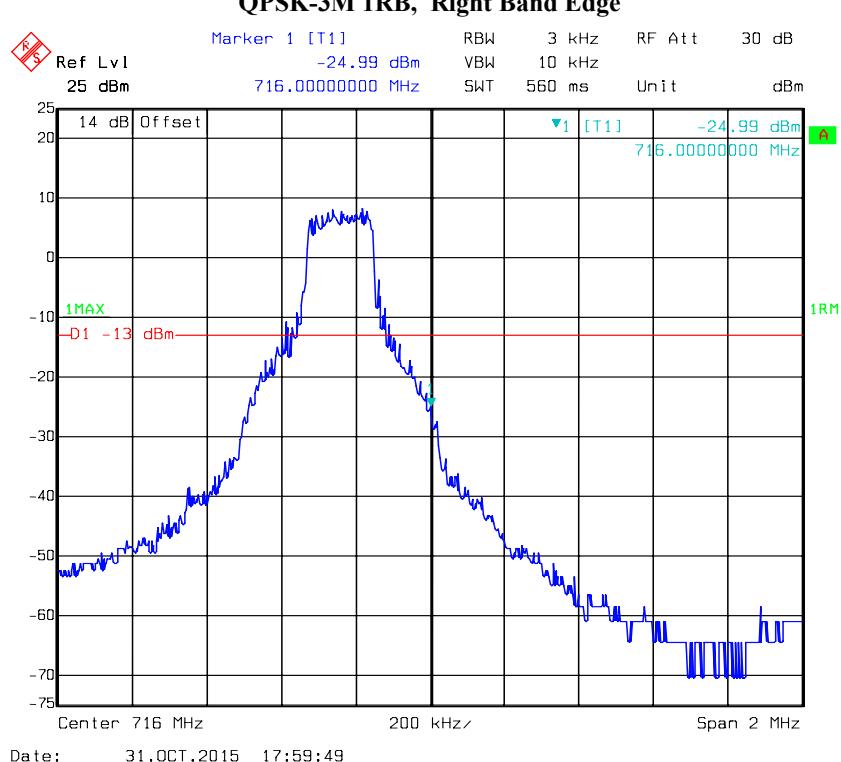
LTE Band 12**QPSK-1.4M 1RB, Left Band Edge**

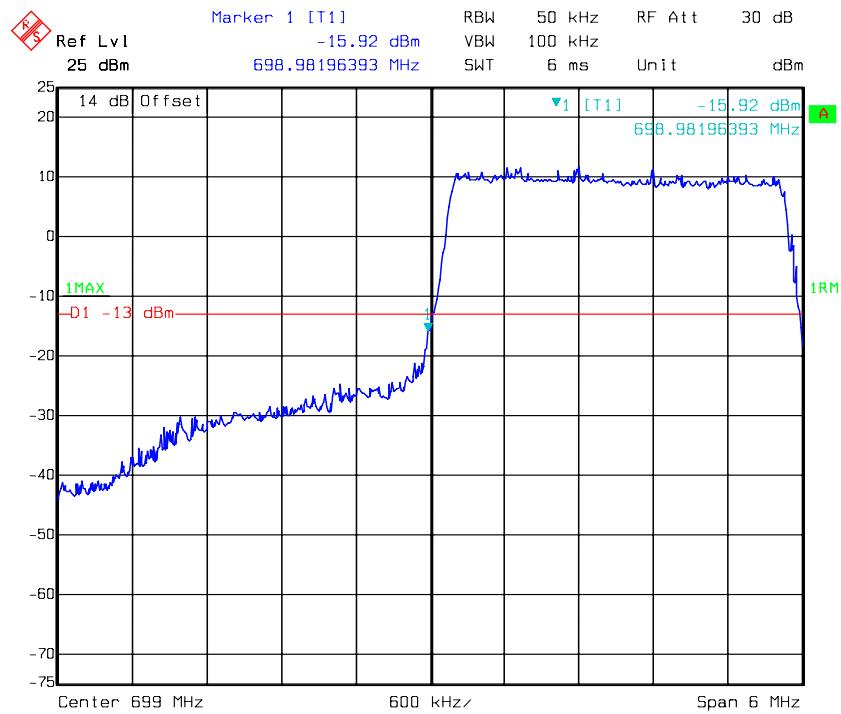
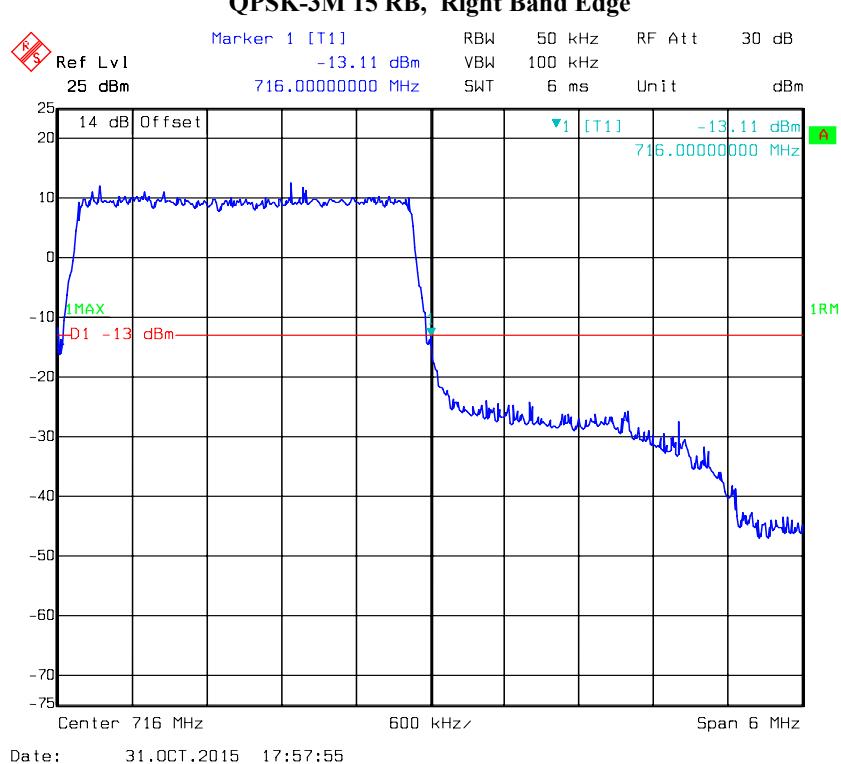
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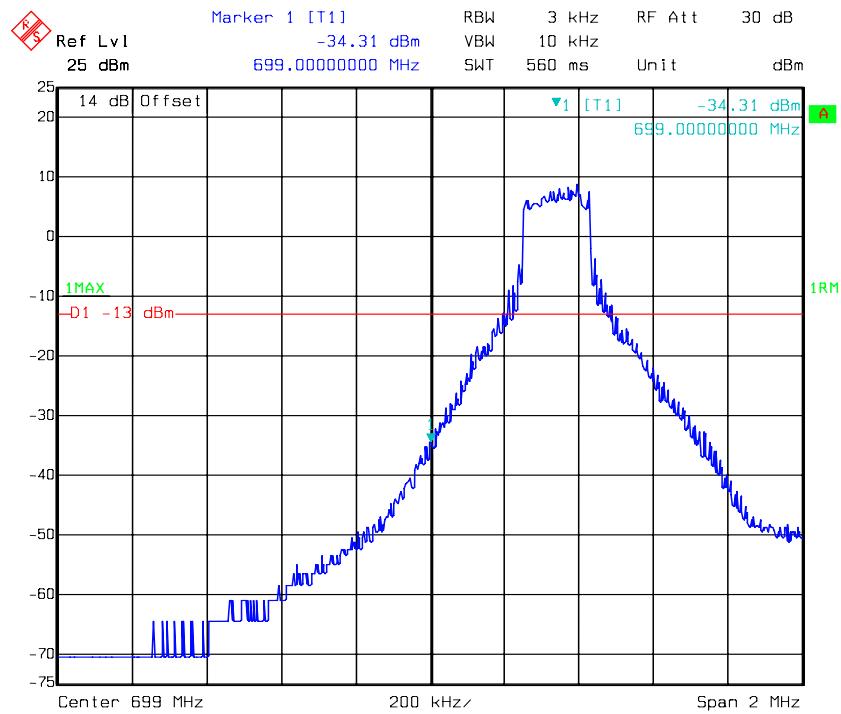
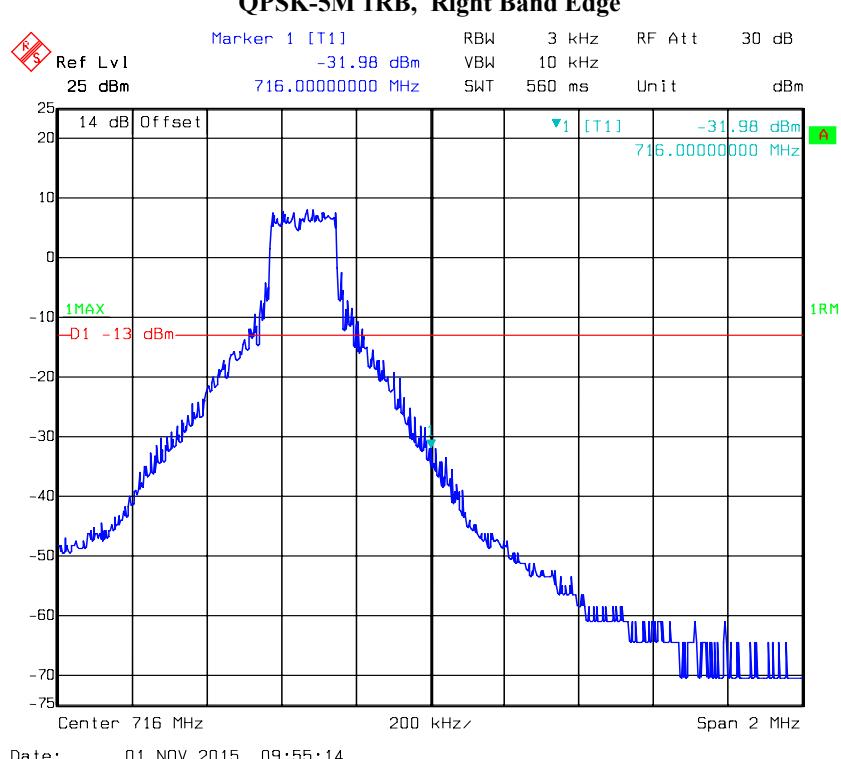
QPSK-1.4M 1RB, Right Band Edge

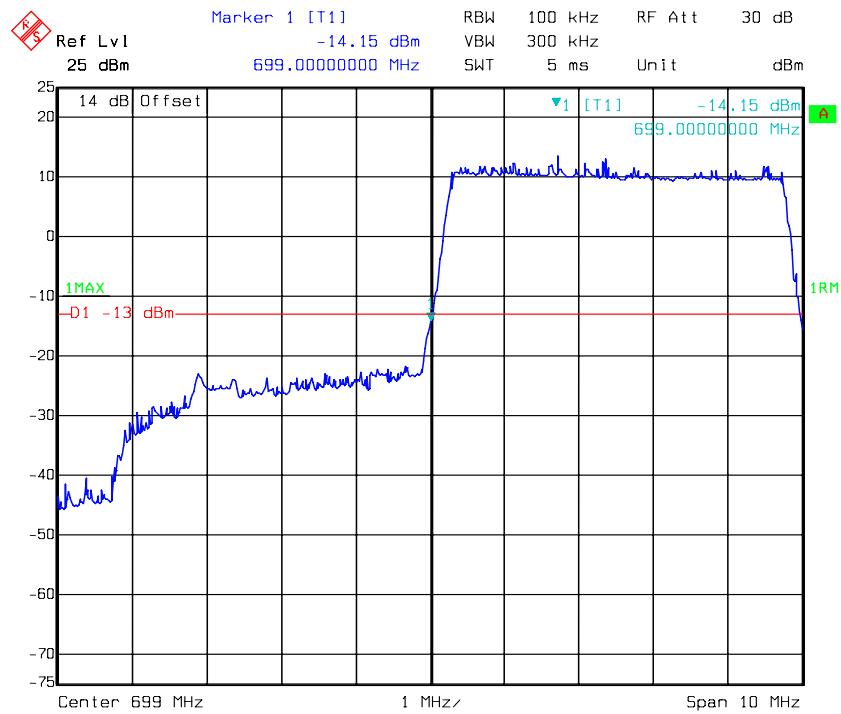
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QPSK-1.4M 6RB, Left Band Edge**QPSK-1.4M 6RB, Right Band Edge**

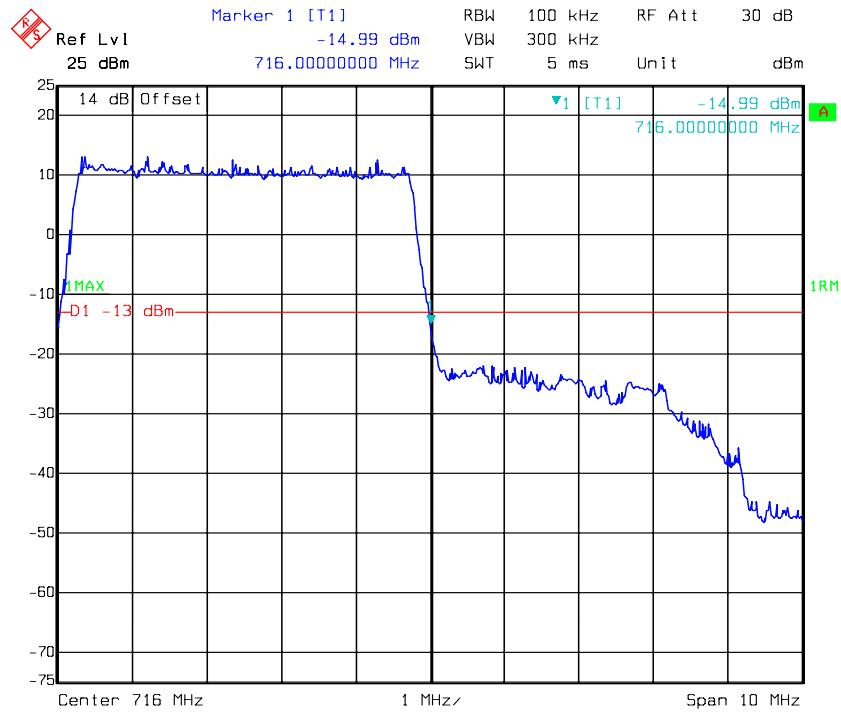
QPSK-3M 1RB, Left Band Edge**QPSK-3M 1RB, Right Band Edge**

QPSK-3M 15 RB, Left Band Edge**QPSK-3M 15 RB, Right Band Edge**

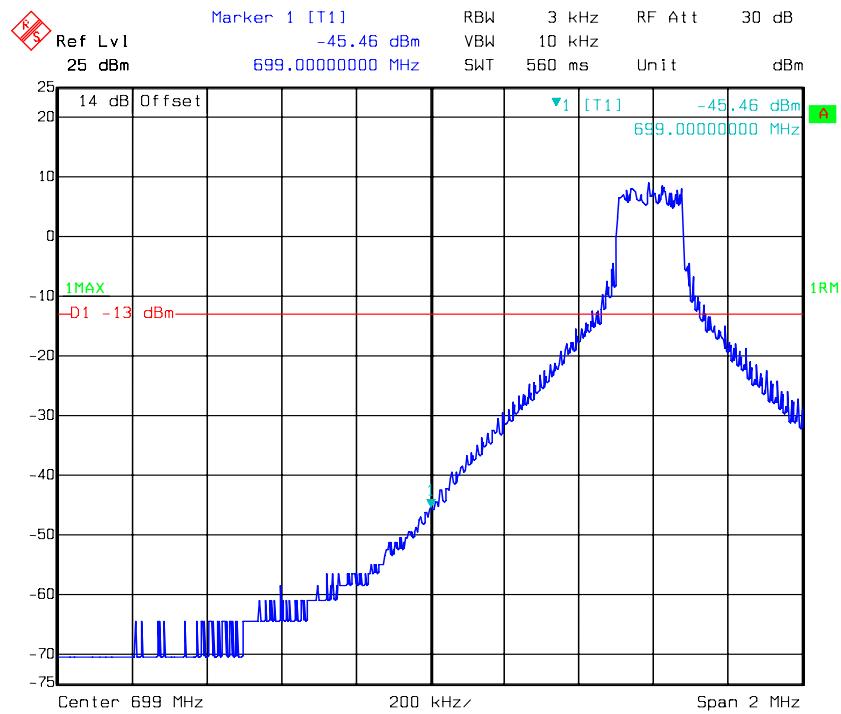
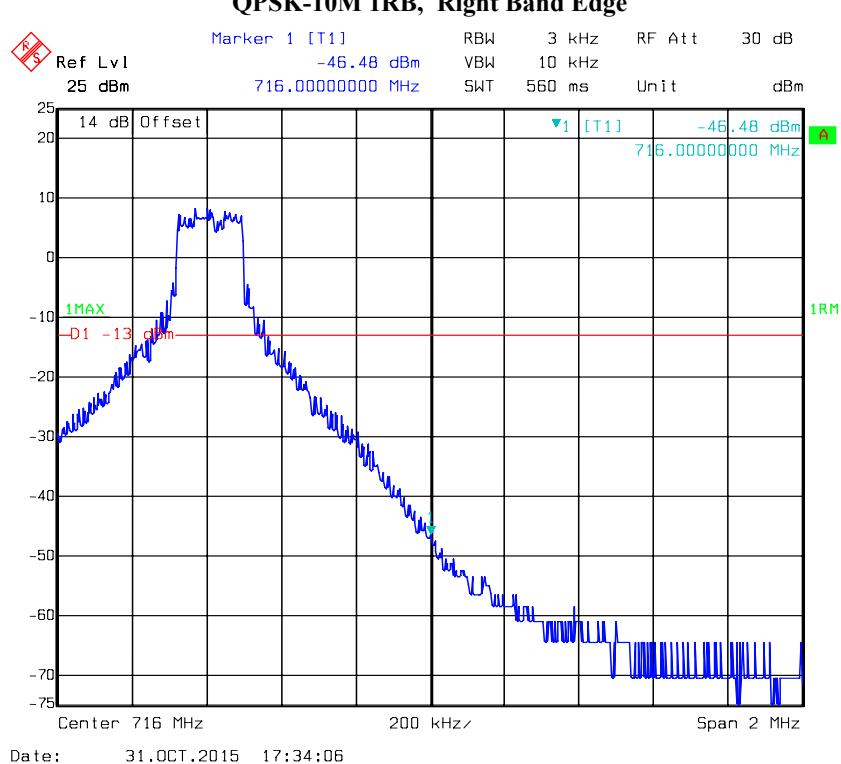
QPSK-5M 1RB, Left Band Edge**QPSK-5M 1RB, Right Band Edge**

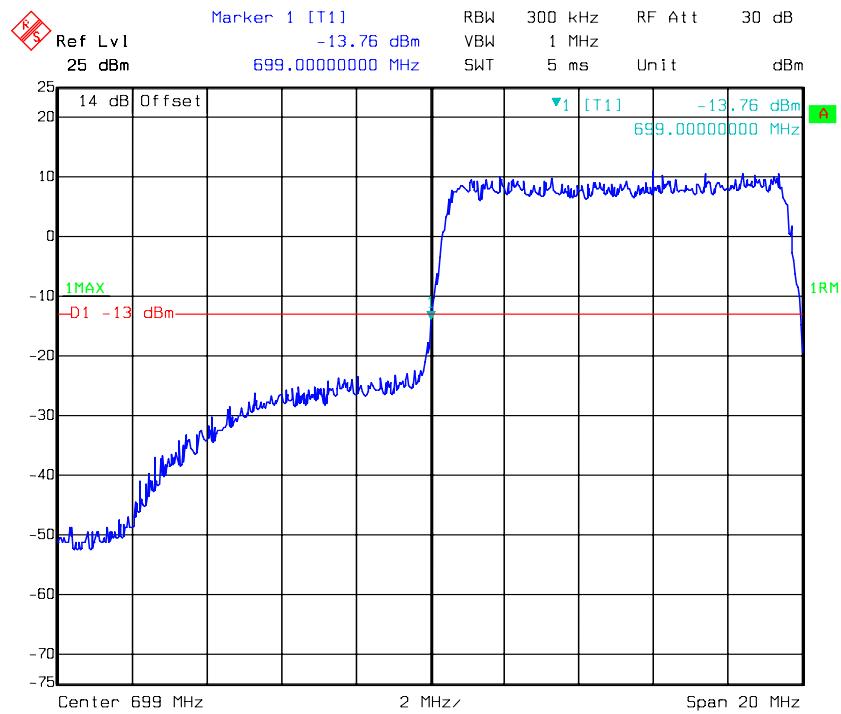
QPSK-5M 25 RB, Left Band Edge

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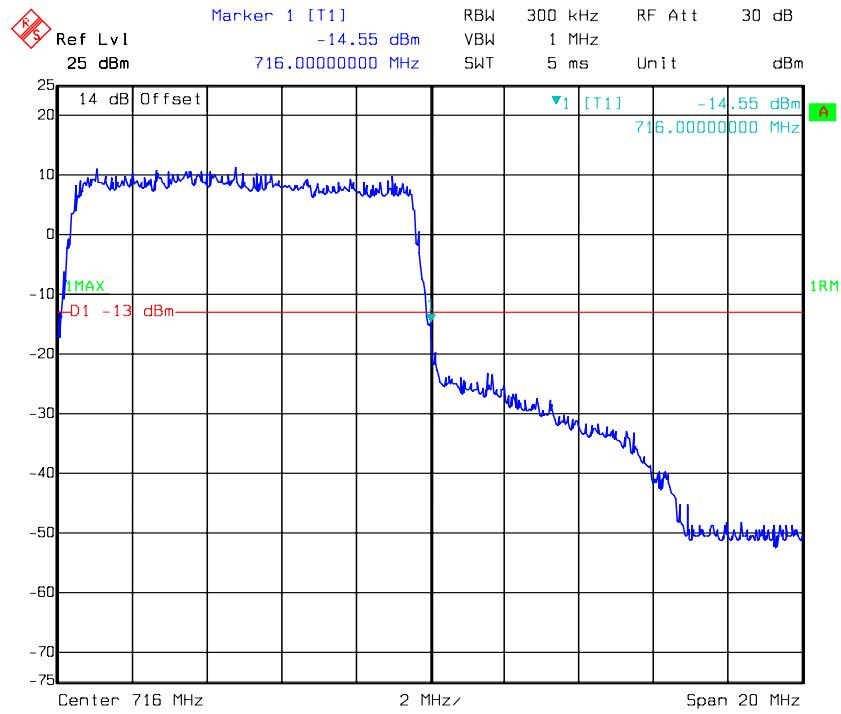
QPSK-5M 25 RB, Right Band Edge

Date: 01.NOV.2015 09:57:04

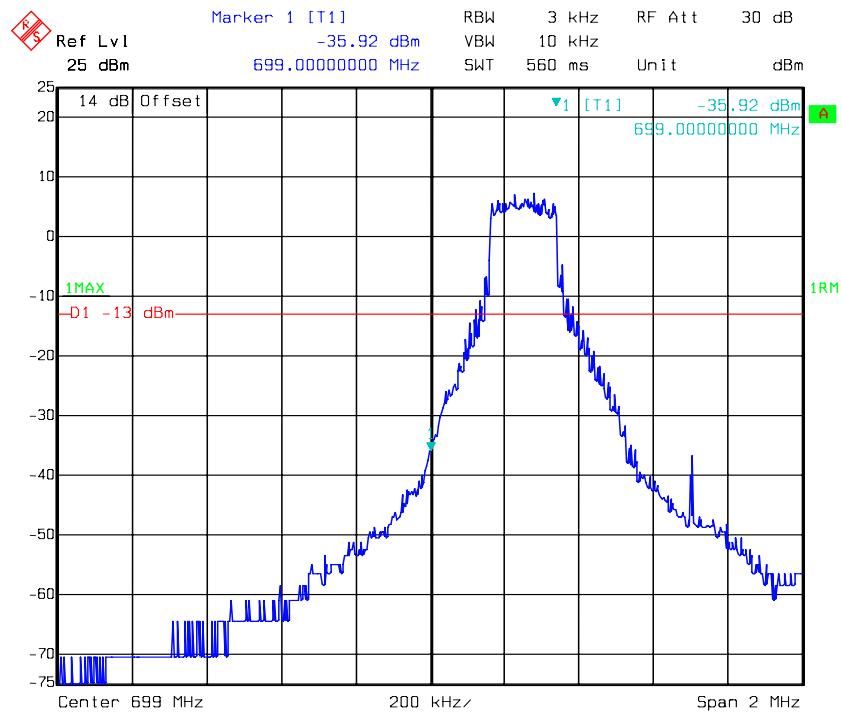
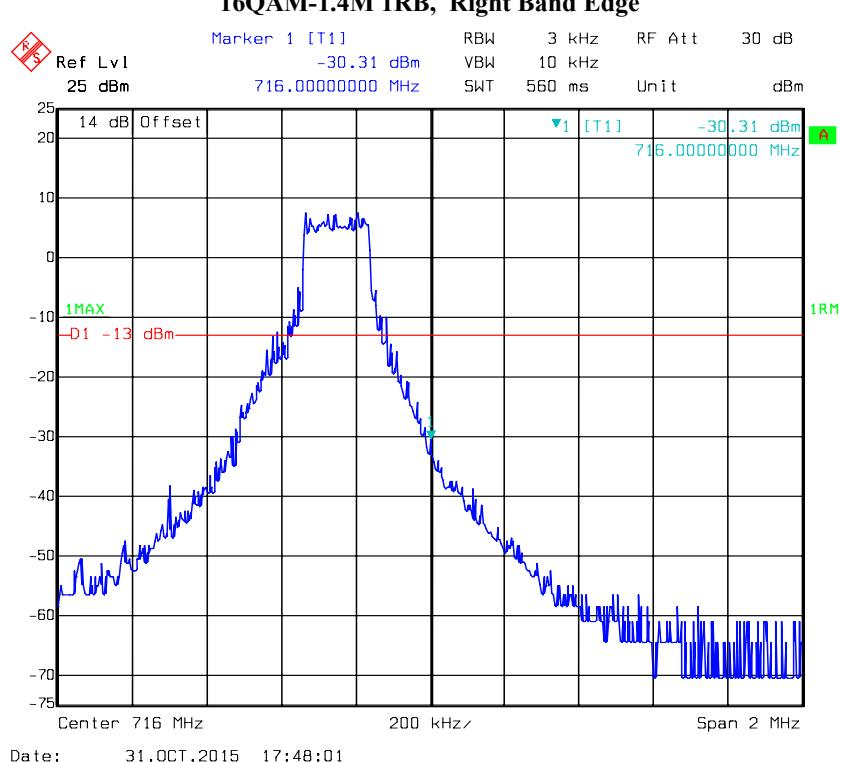
QPSK-10M 1RB, Left Band Edge**QPSK-10M 1RB, Right Band Edge**

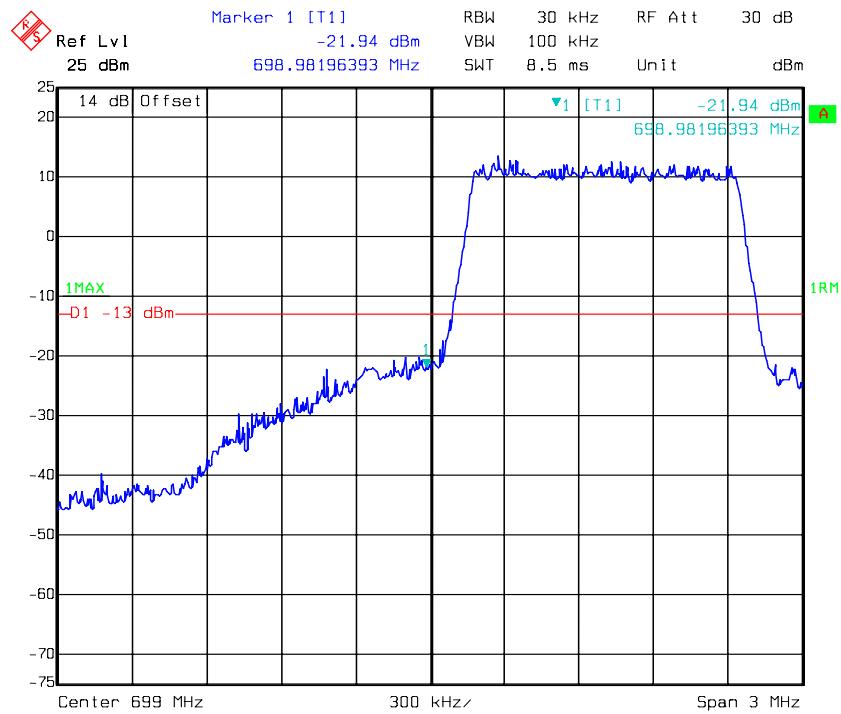
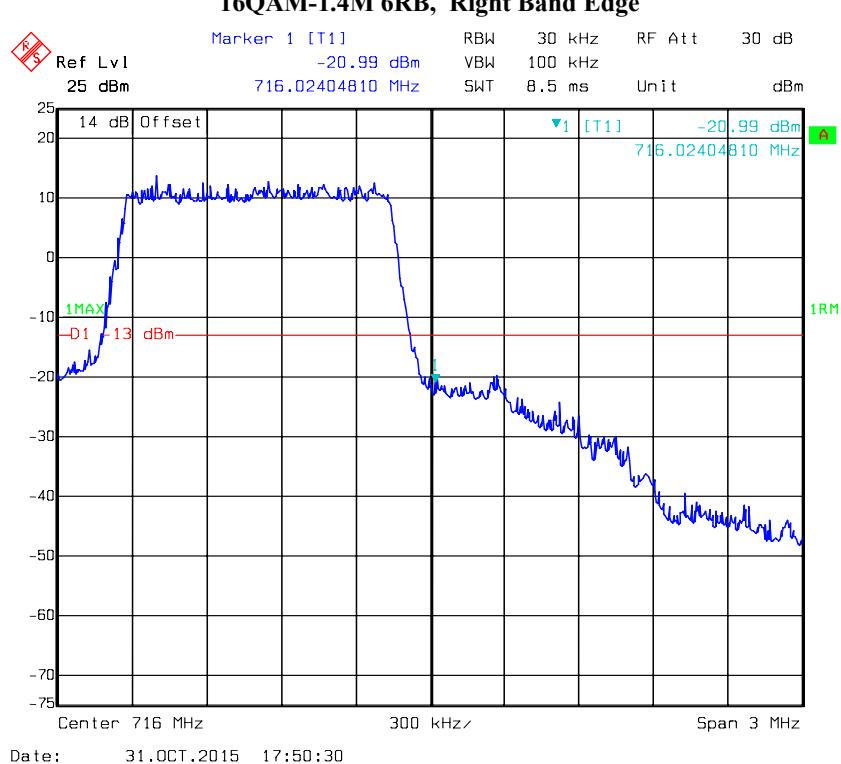
QPSK-10M 50 RB, Left Band Edge

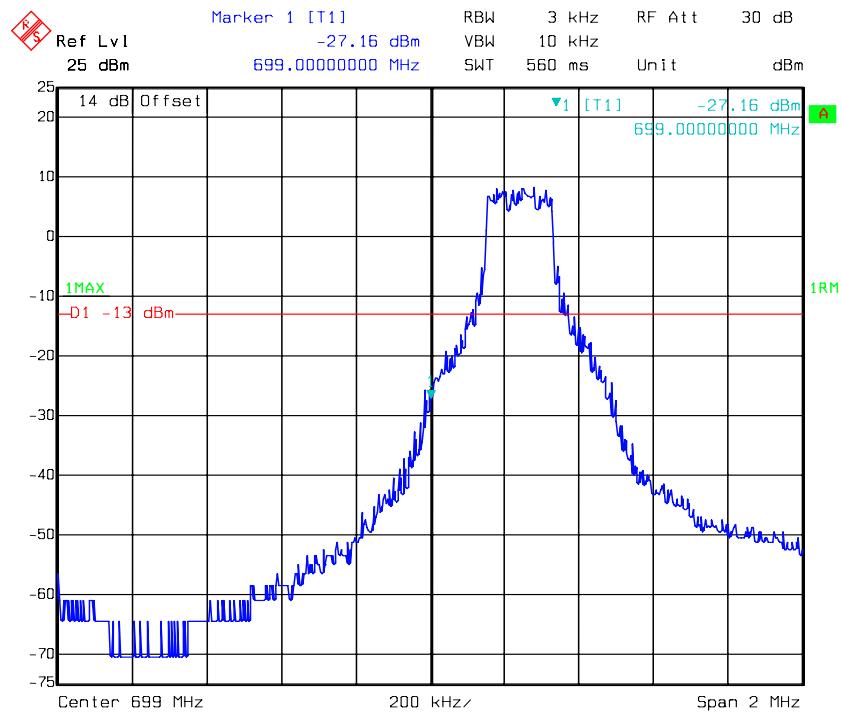
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QPSK-10M 50 RB, Right Band Edge

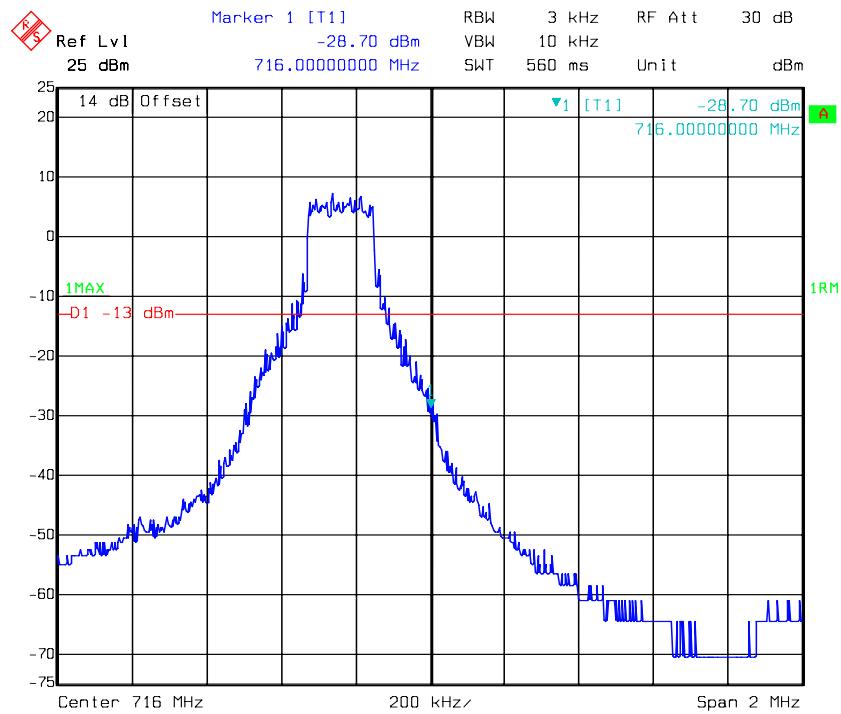
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16QAM-1.4M 1RB, Left Band Edge**16QAM-1.4M 1RB, Right Band Edge**

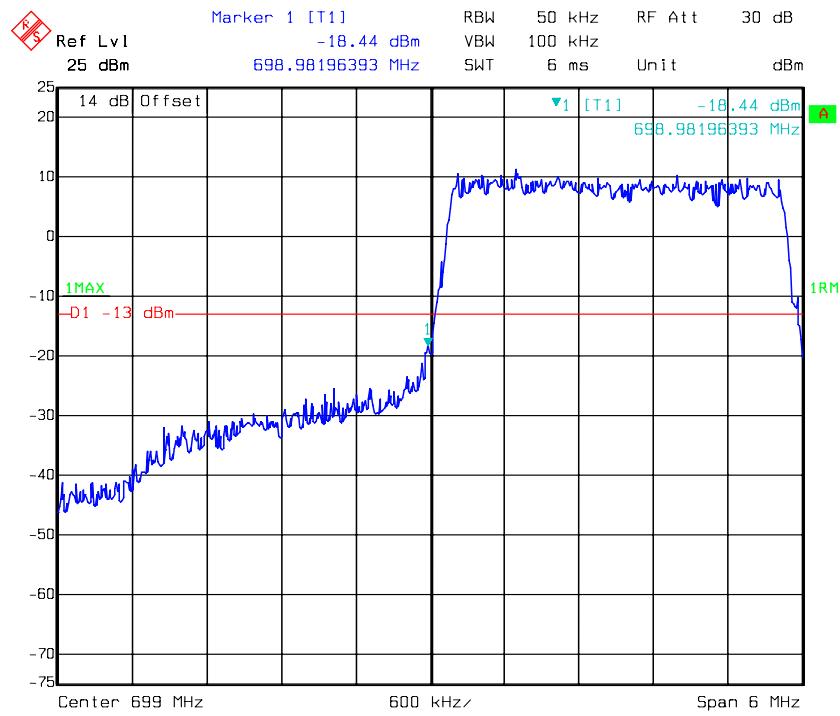
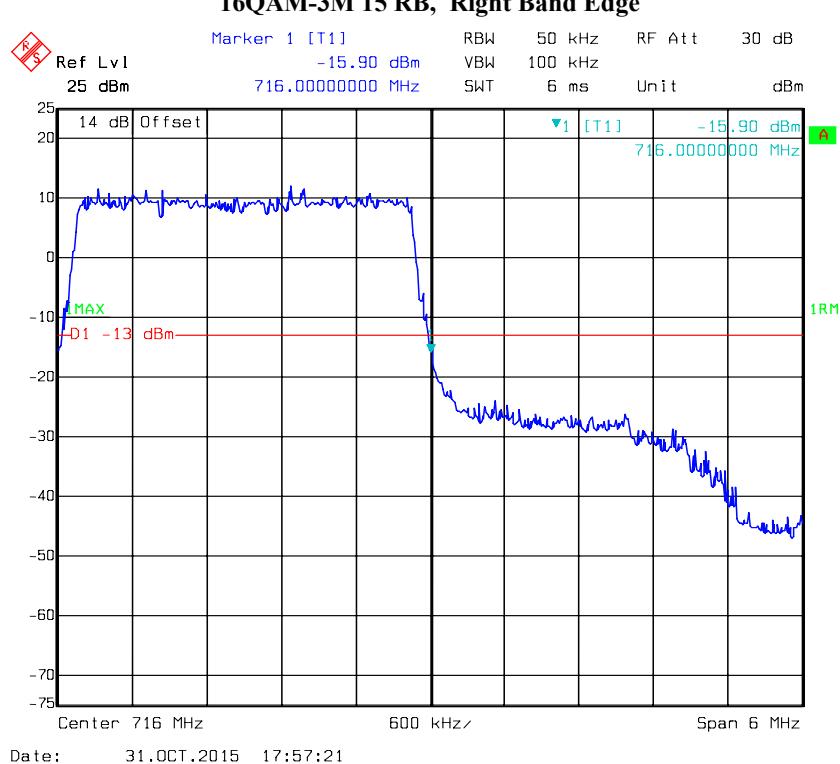
16QAM-1.4M 6RB, Left Band Edge**16QAM-1.4M 6RB, Right Band Edge**

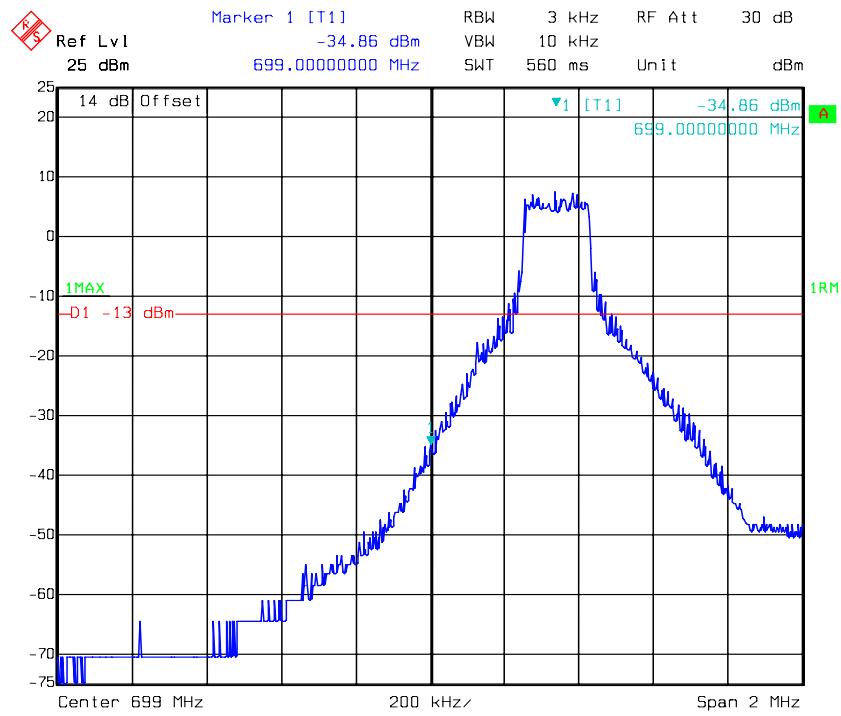
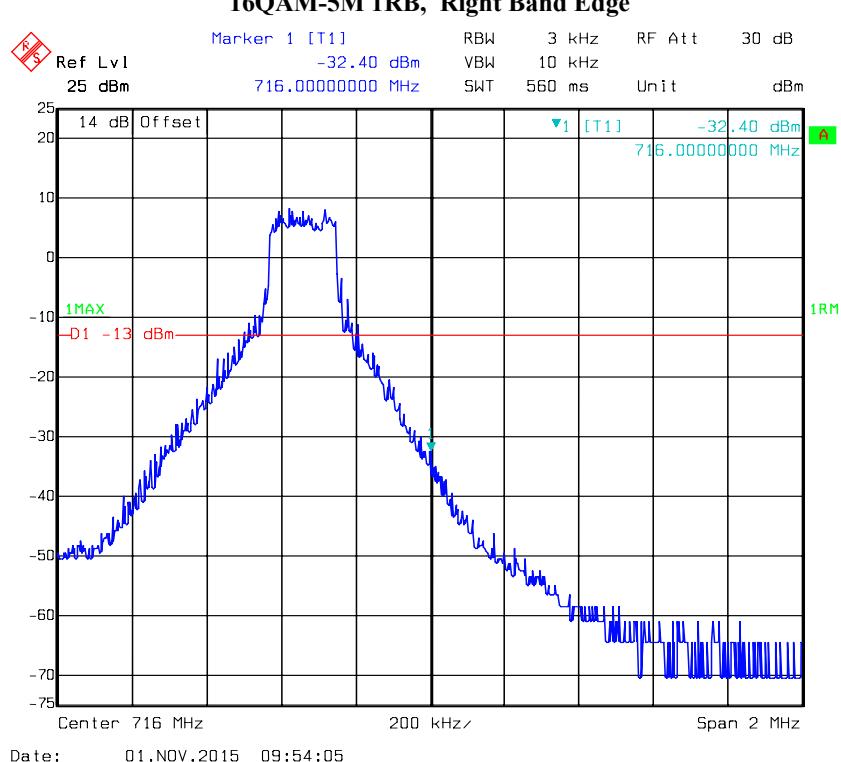
16QAM-3M 1RB, Left Band Edge

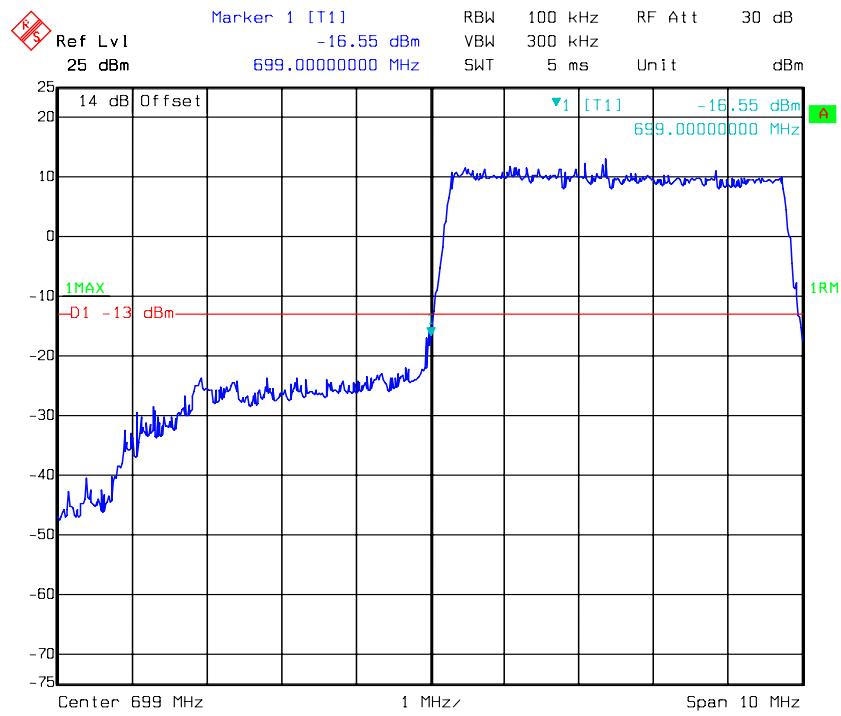
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16QAM-3M 1RB, Right Band Edge

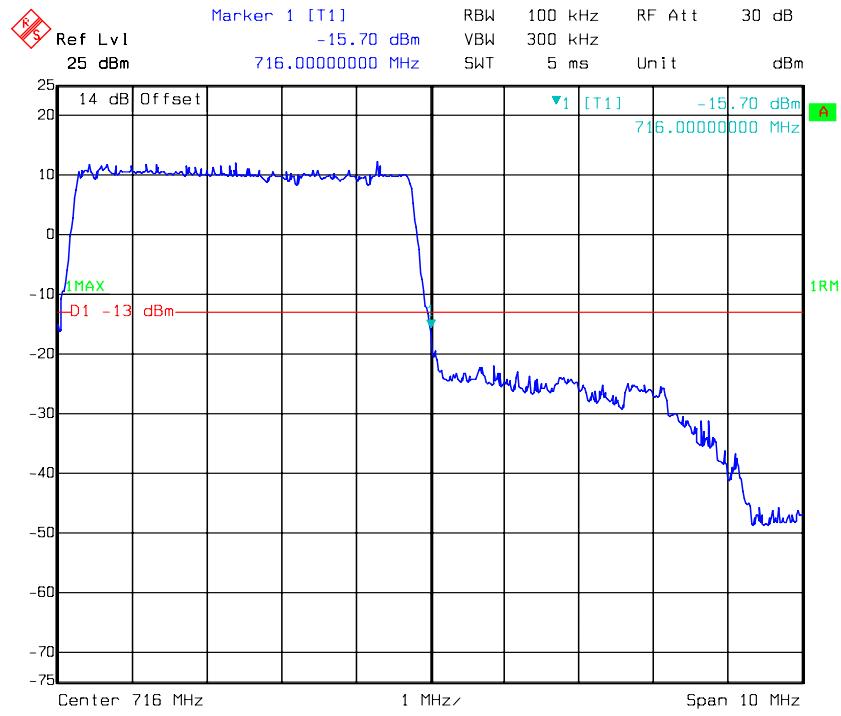
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16QAM-3M 15 RB, Left Band Edge**16QAM-3M 15 RB, Right Band Edge**

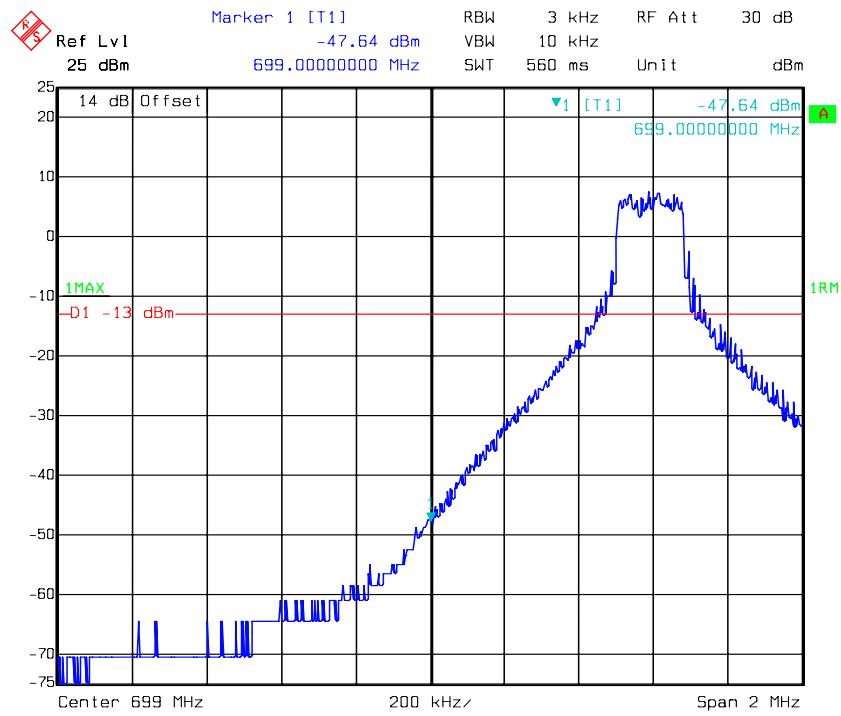
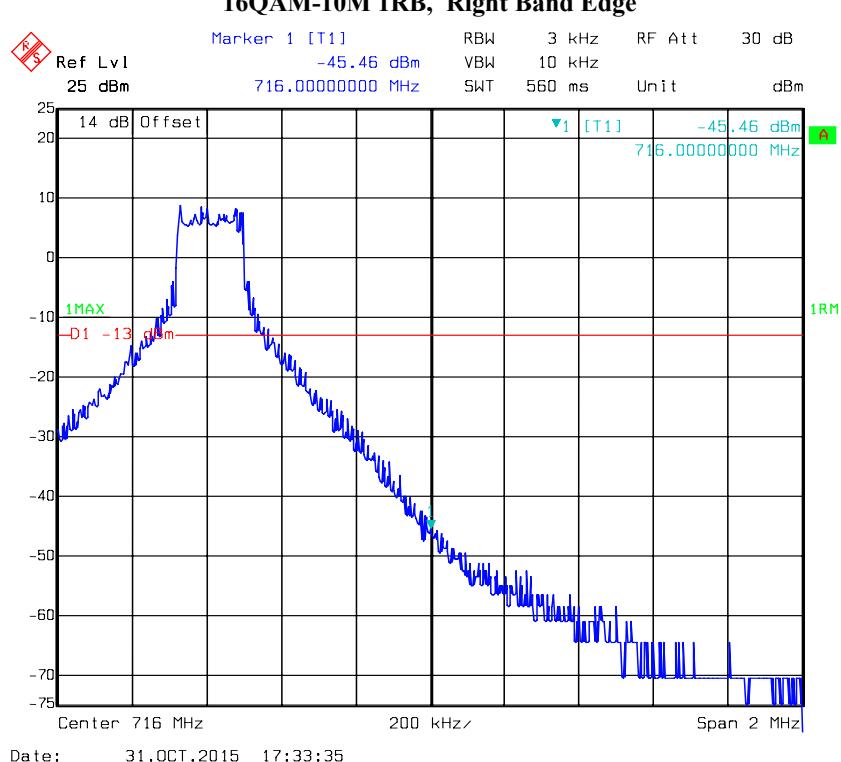
16QAM-5M 1RB, Left Band Edge**16QAM-5M 1RB, Right Band Edge**

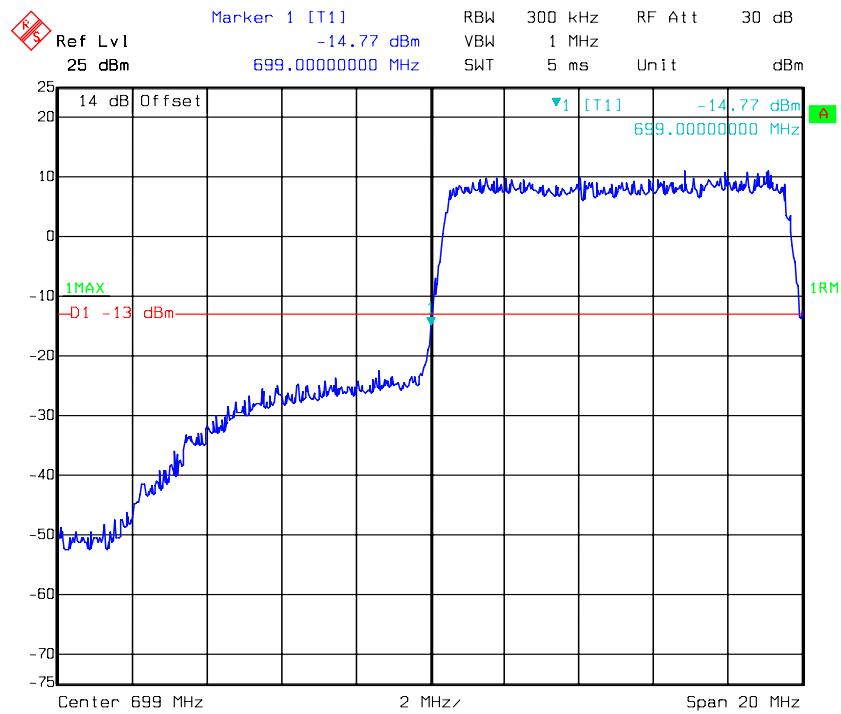
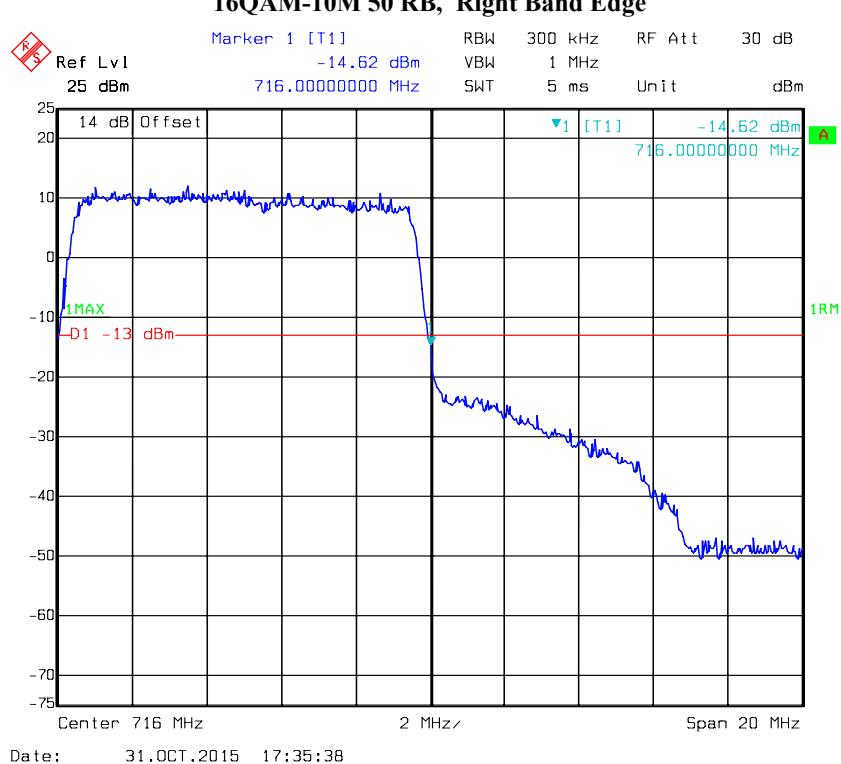
16QAM-5M 25 RB, Left Band Edge

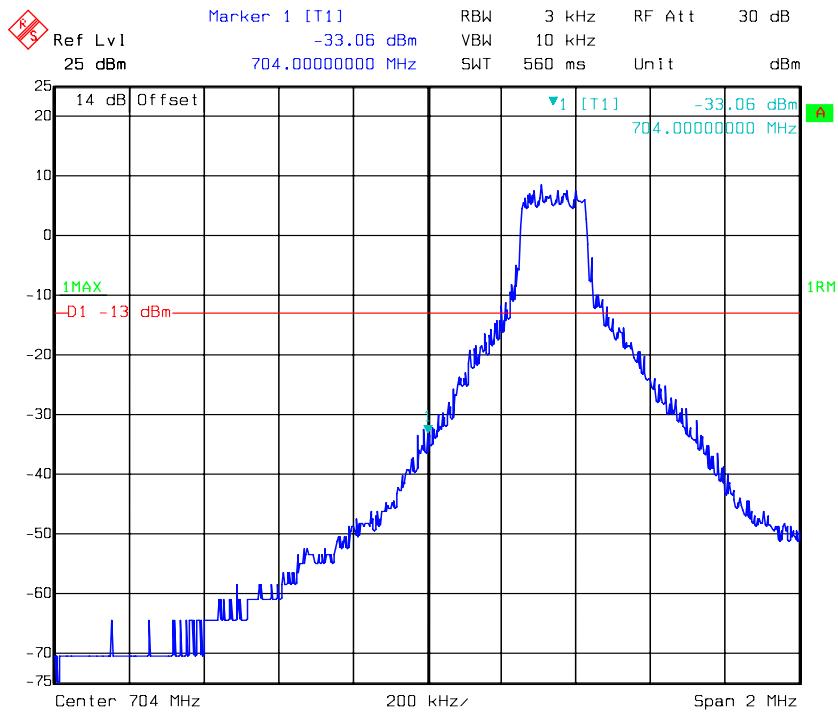
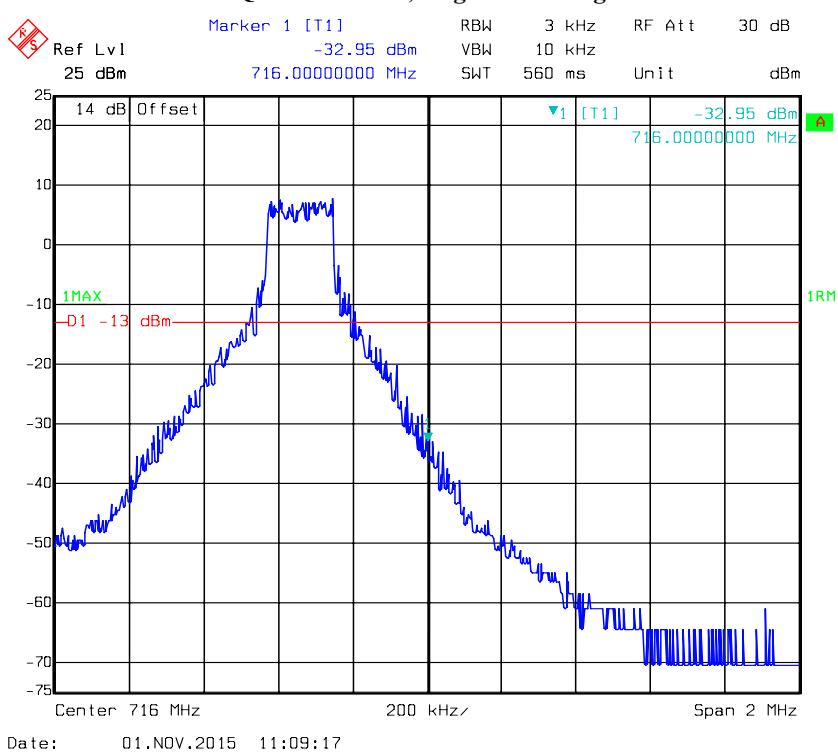
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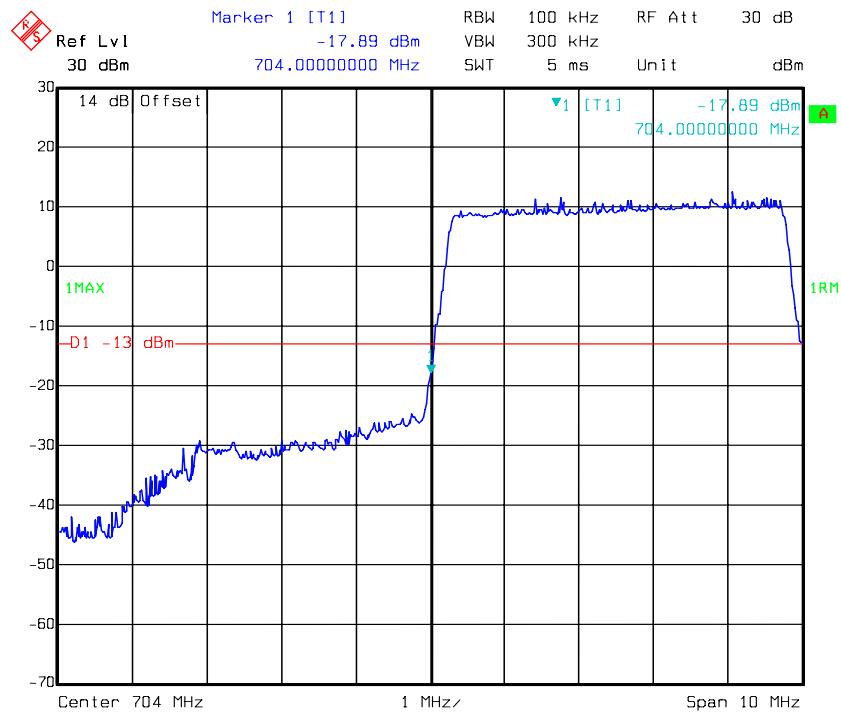
16QAM-5M 25 RB, Right Band Edge

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16QAM-10M 1RB, Left Band Edge**16QAM-10M 1RB, Right Band Edge**

16QAM-10M 50 RB, Left Band Edge**16QAM-10M 50 RB, Right Band Edge**

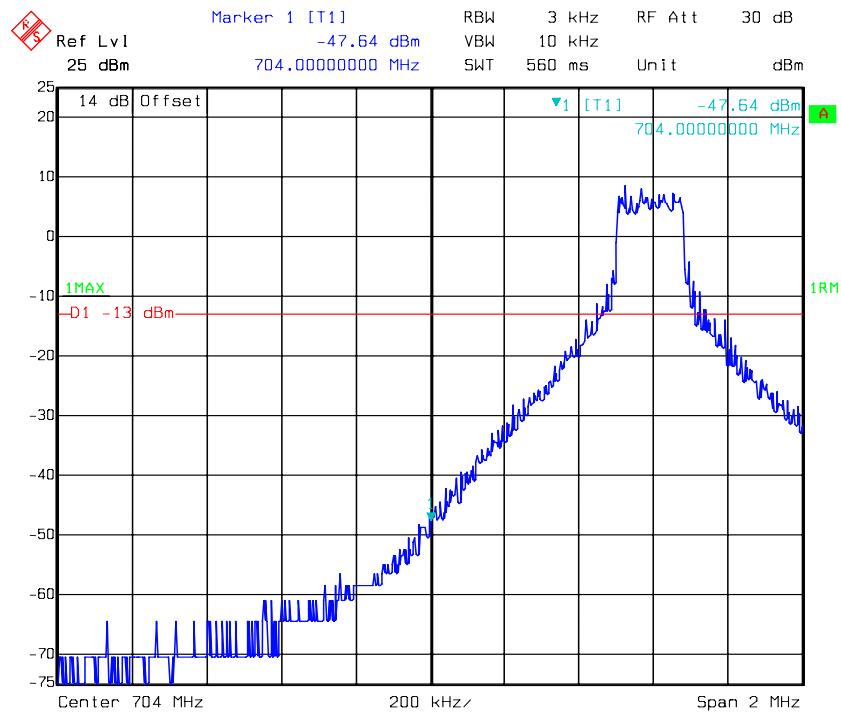
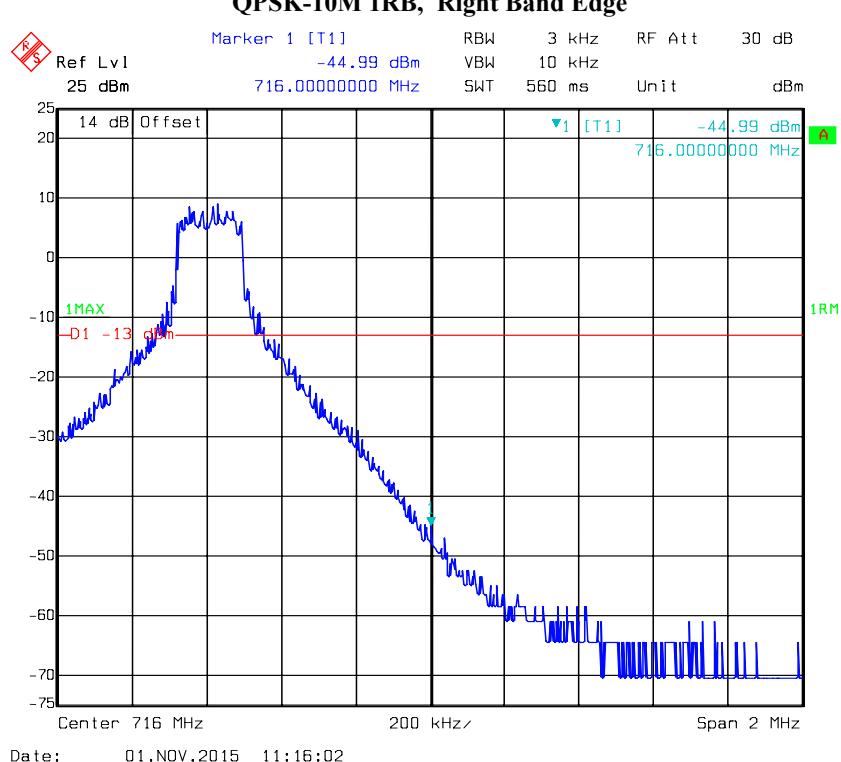
LTE Band 17**QPSK-5M 1RB, Left Band Edge****QPSK-5M 1RB, Right Band Edge**

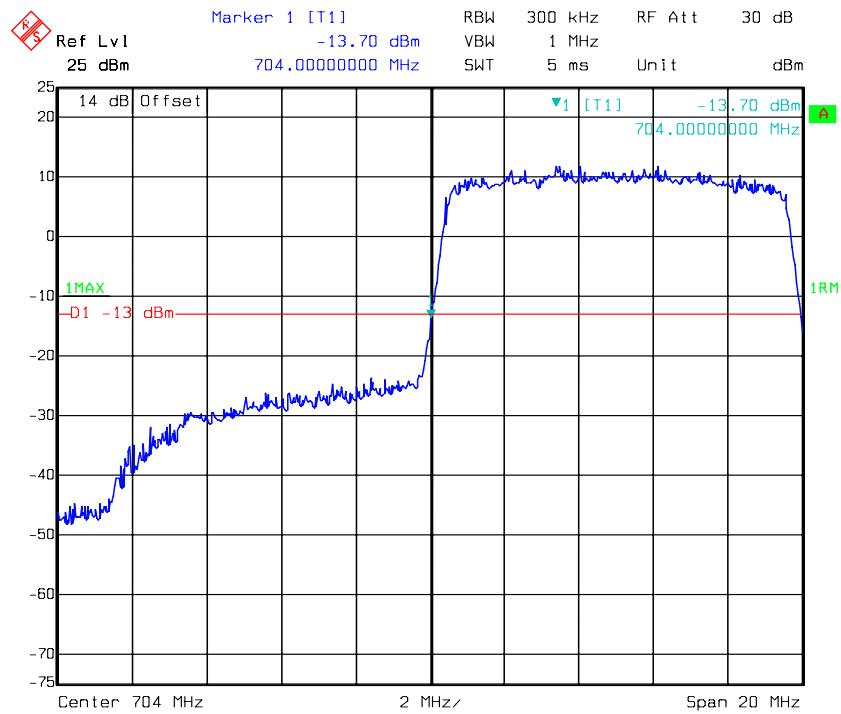
QPSK-5M 25 RB, Left Band Edge

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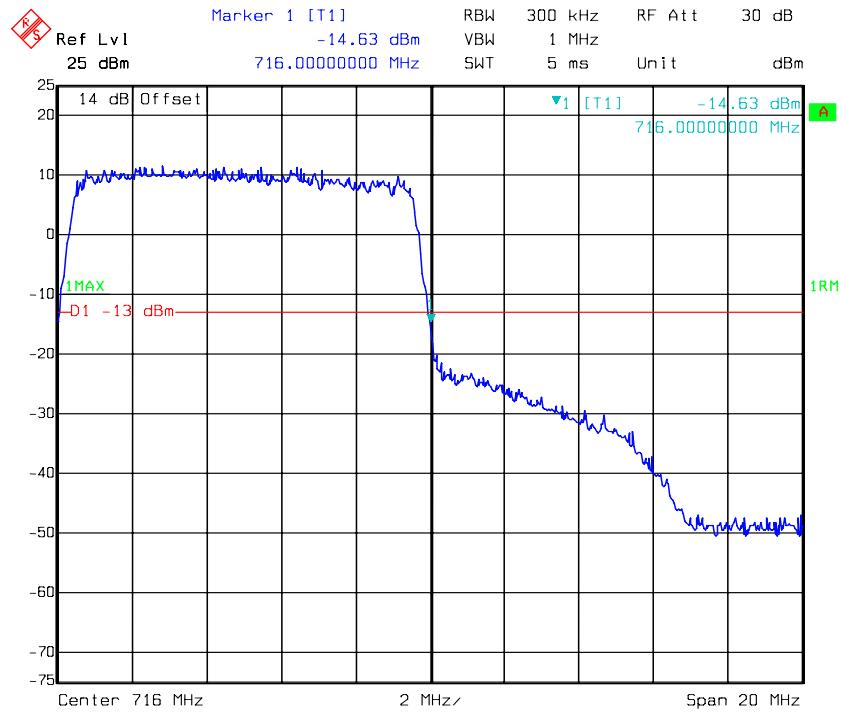
QPSK-5M 25 RB, Right Band Edge

Date: 01.NOV.2015 11:06:25

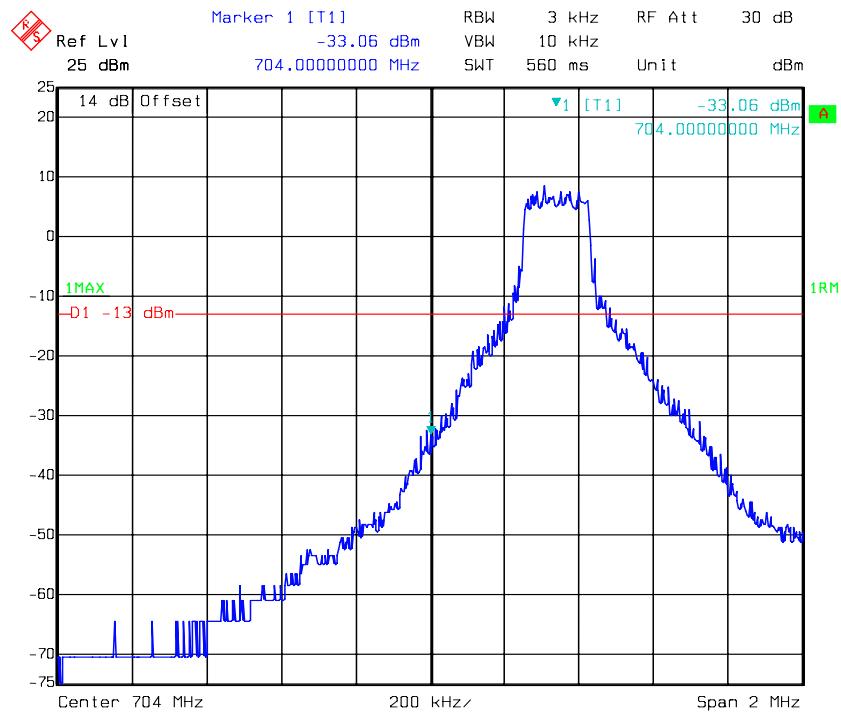
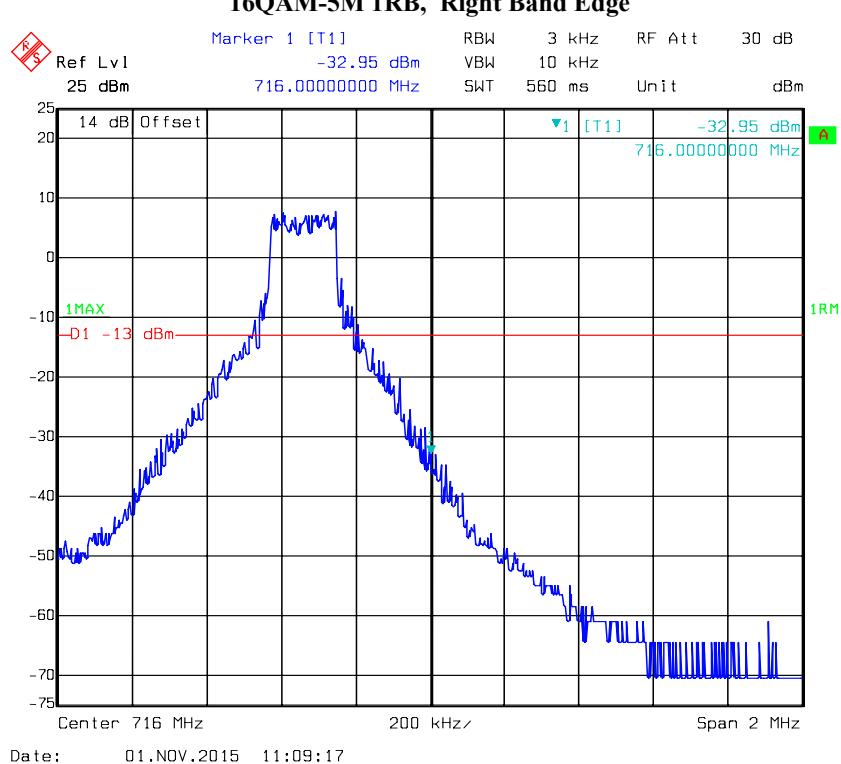
QPSK-10M 1RB, Left Band Edge**QPSK-10M 1RB, Right Band Edge**

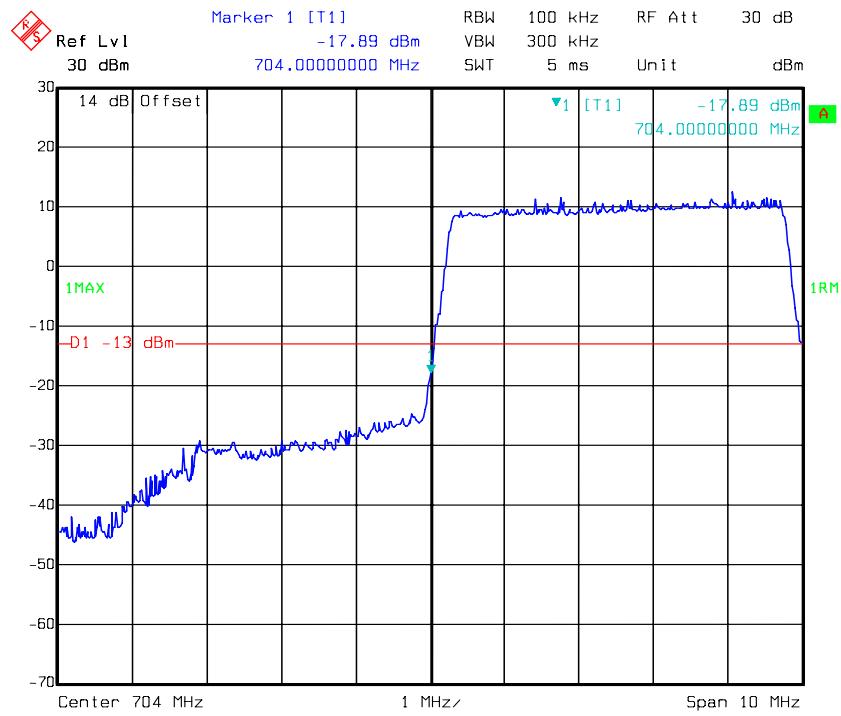
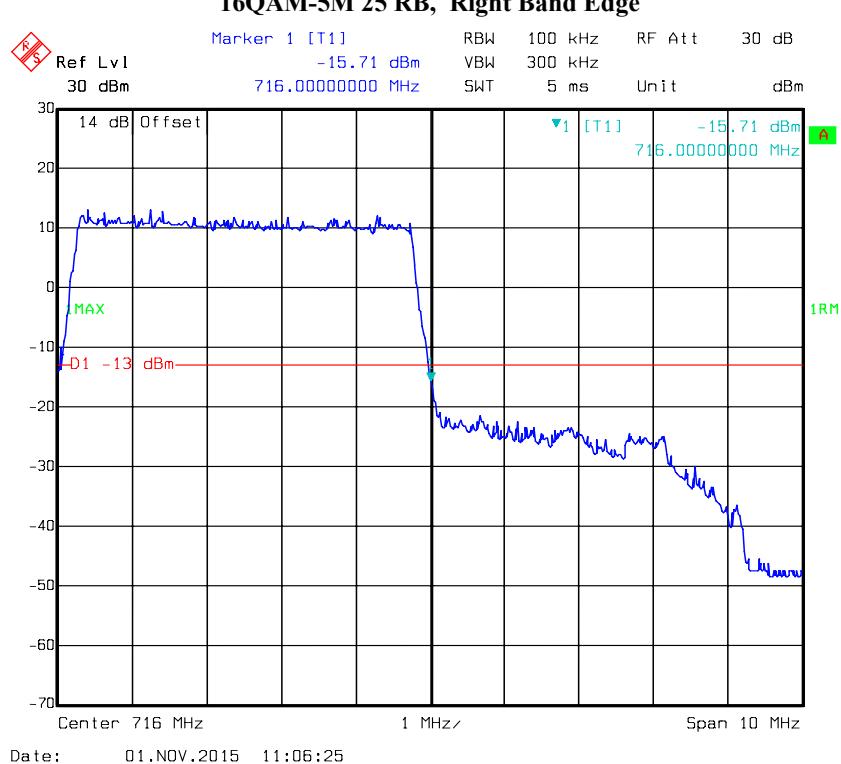
QPSK-10M 50 RB, Left Band Edge

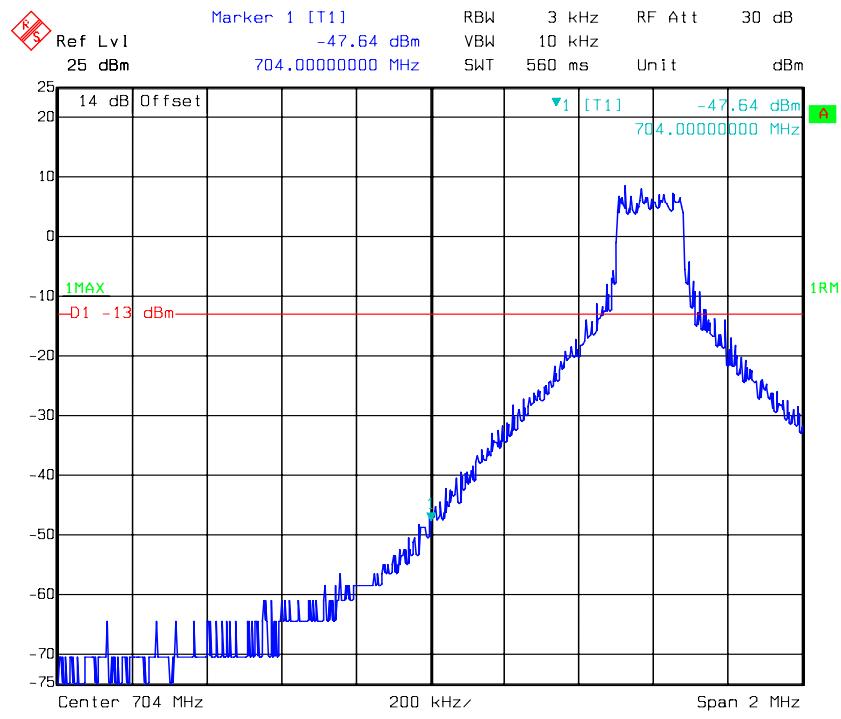
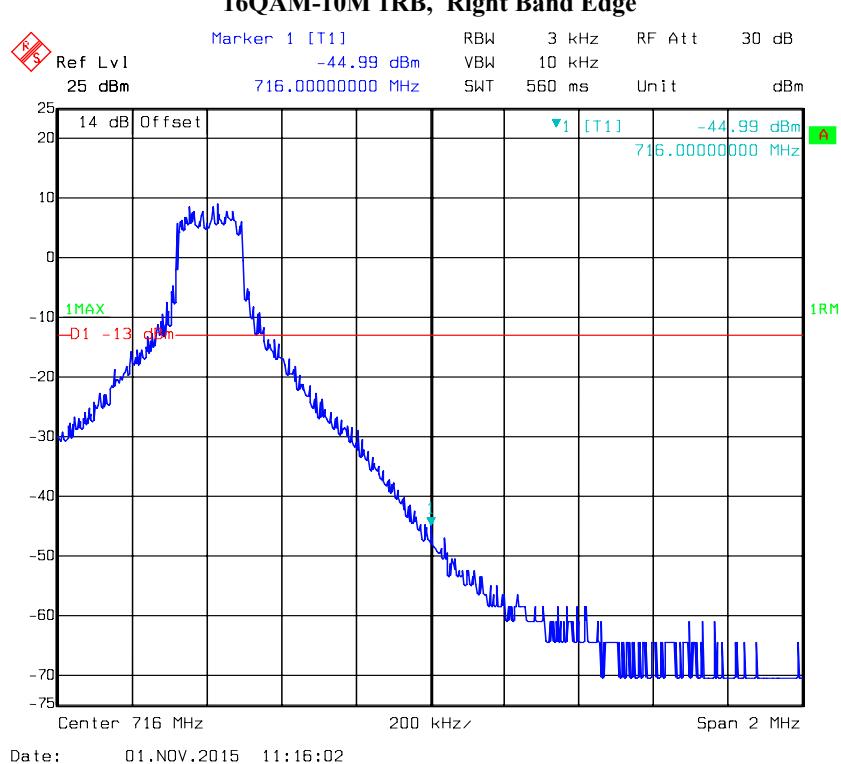
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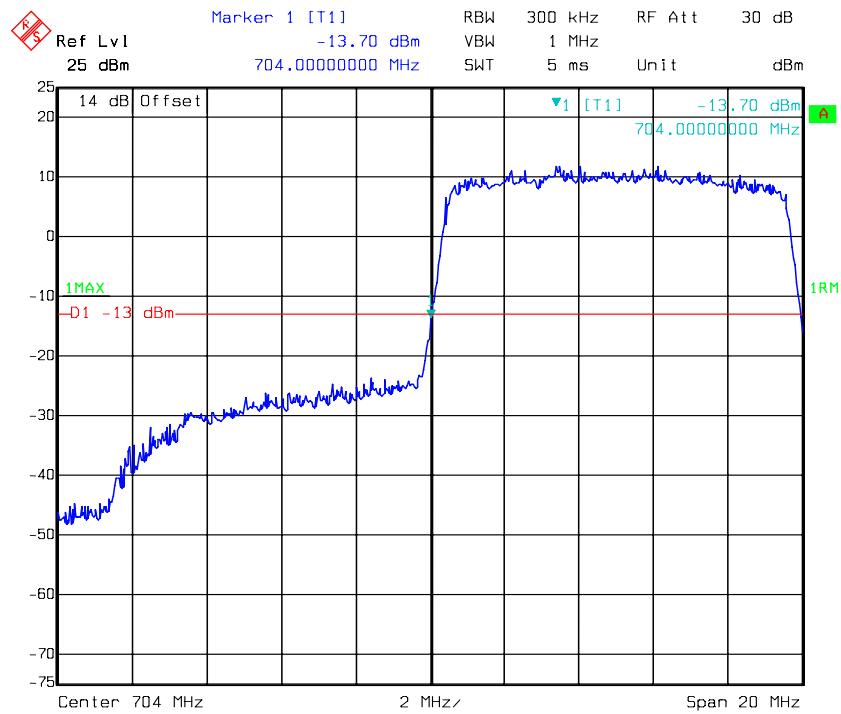
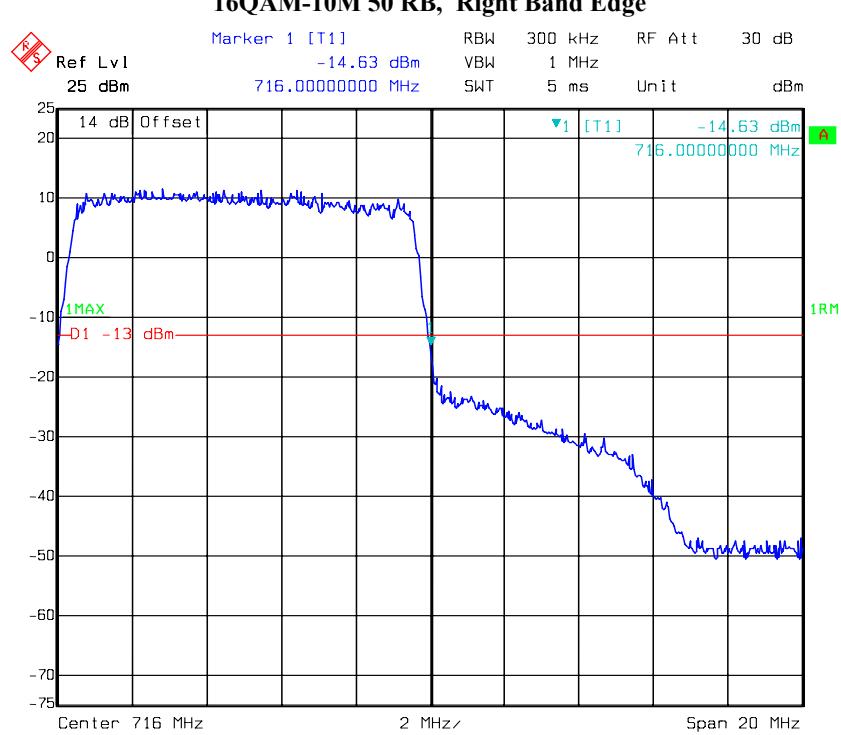
QPSK-10M 50 RB, Right Band Edge

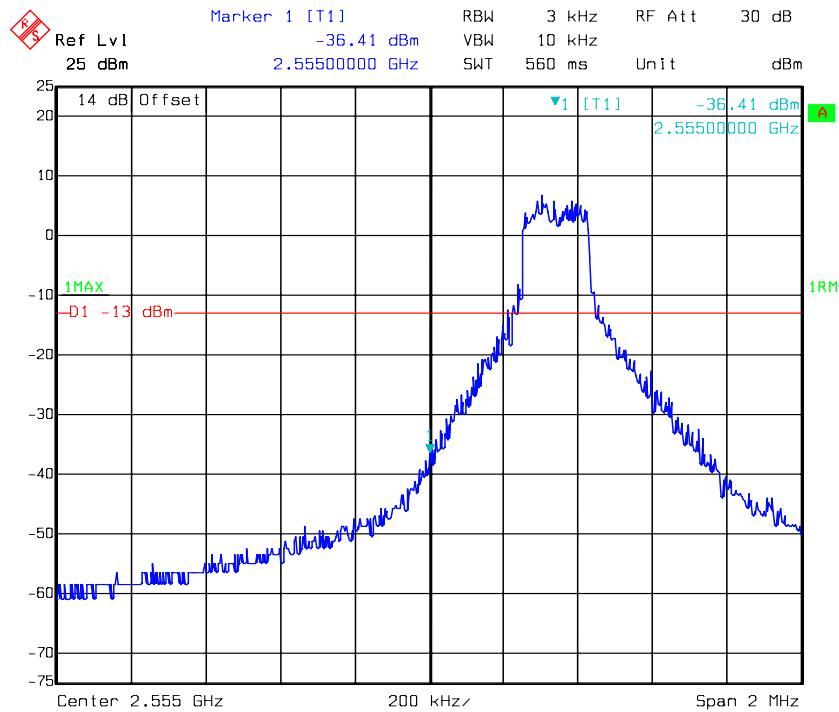
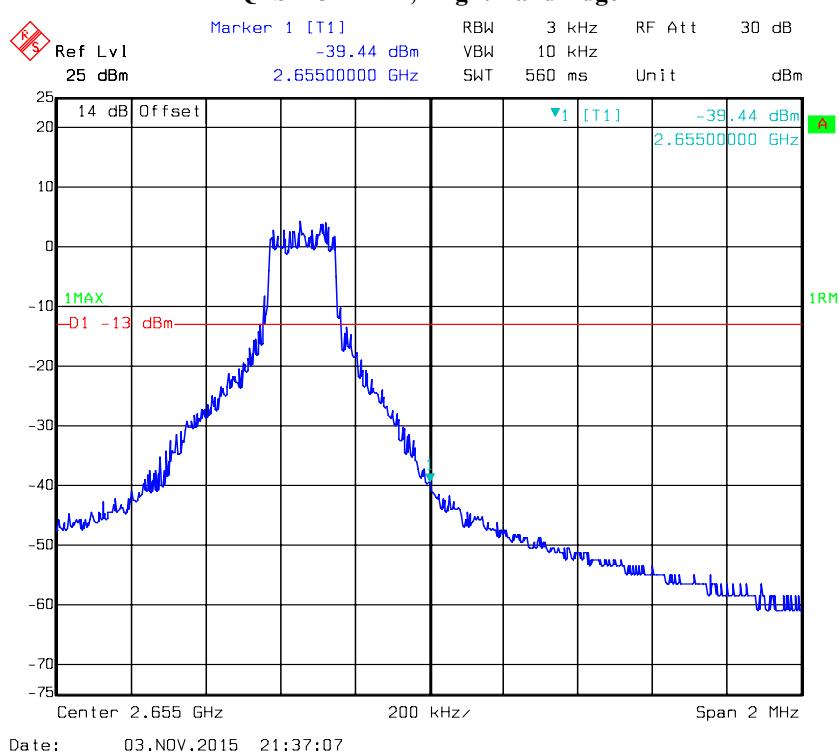
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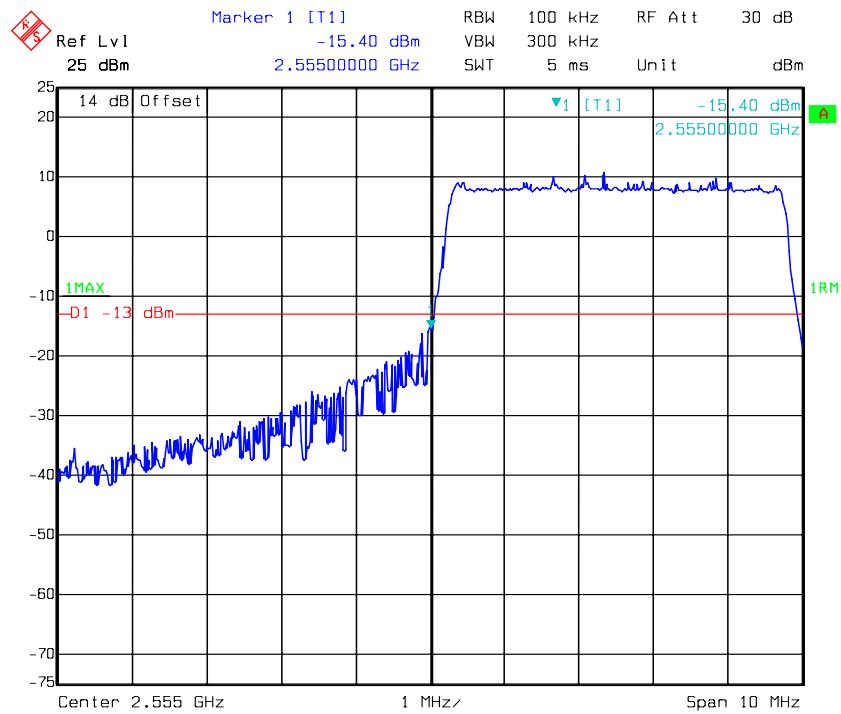
16QAM-5M 1RB, Left Band Edge**16QAM-5M 1RB, Right Band Edge**

16QAM-5M 25 RB, Left Band Edge**16QAM-5M 25 RB, Right Band Edge**

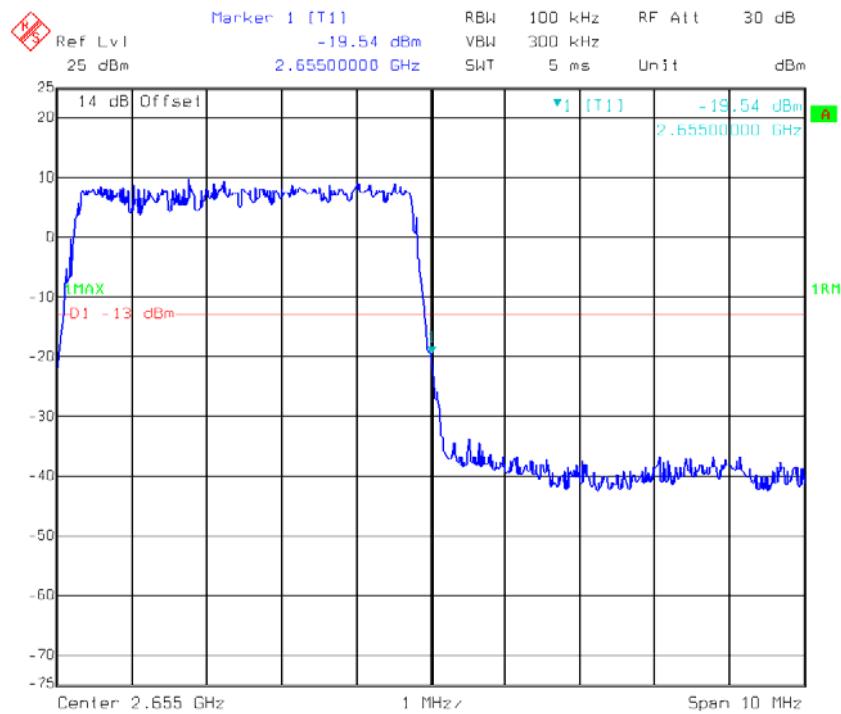
16QAM-10M 1RB, Left Band Edge**16QAM-10M 1RB, Right Band Edge**

16QAM-10M 50 RB, Left Band Edge**16QAM-10M 50 RB, Right Band Edge**

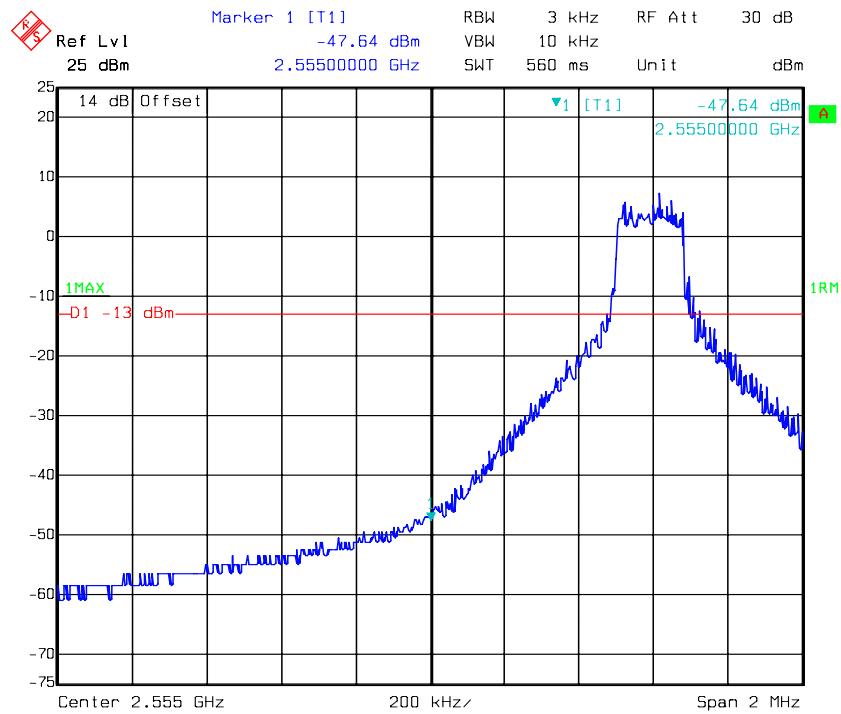
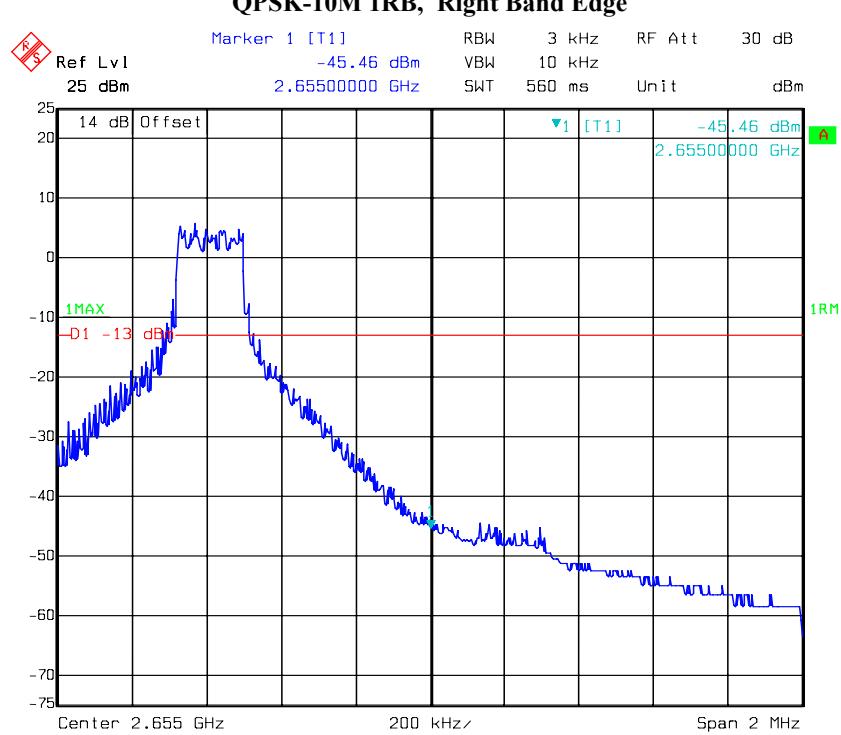
LTE Band 41**QPSK-5M 1RB, Left Band Edge****QPSK-5M 1RB, Right Band Edge**

QPSK-5M 25 RB, Left Band Edge

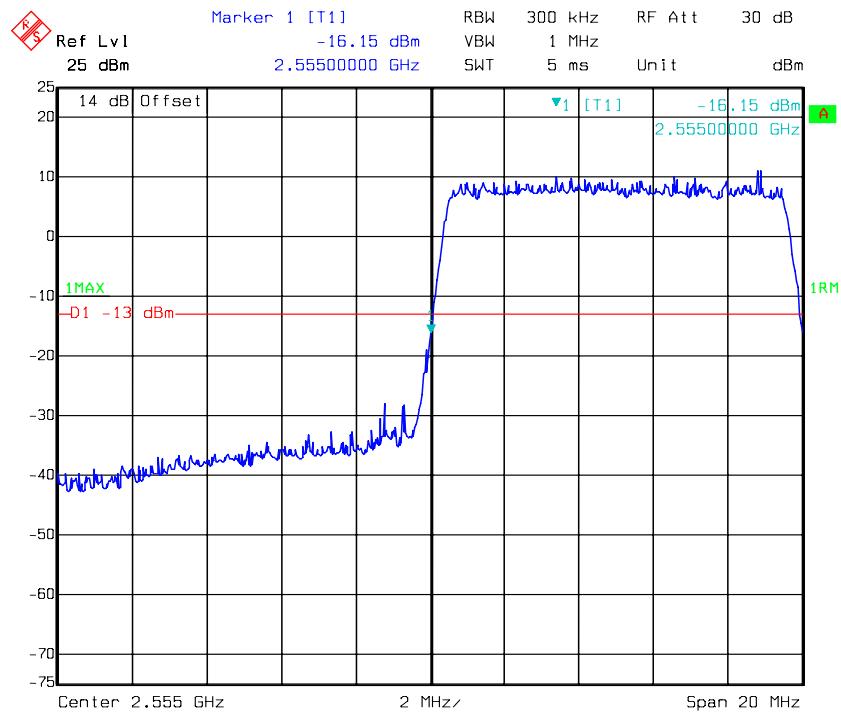
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QPSK-5M 25 RB, Right Band Edge

Date: 03.NOV.2015 21:34:26

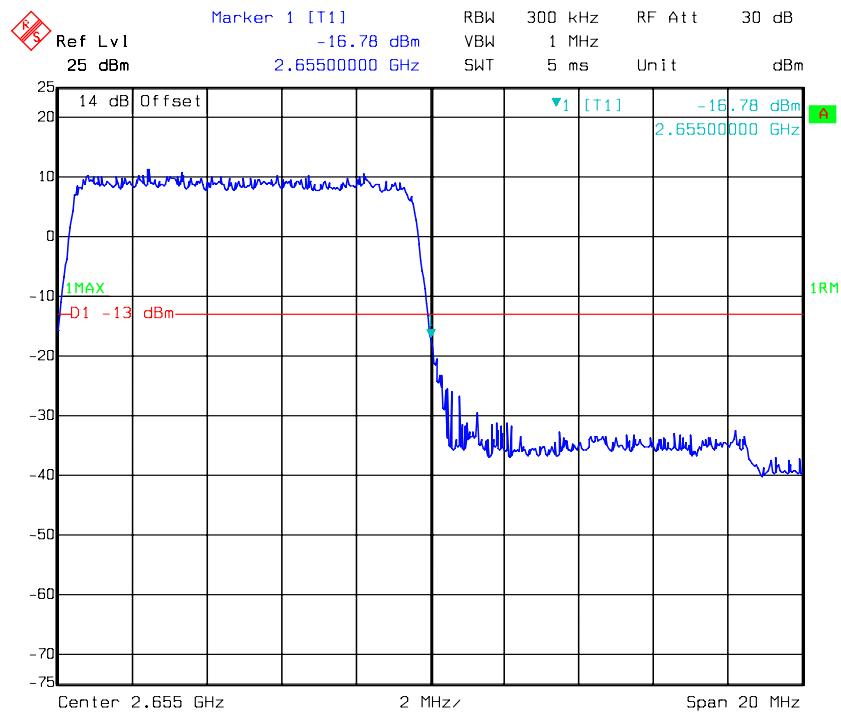
QPSK-10M 1RB, Left Band Edge**QPSK-10M 1RB, Right Band Edge**

QPSK-10M 50 RB, Left Band Edge

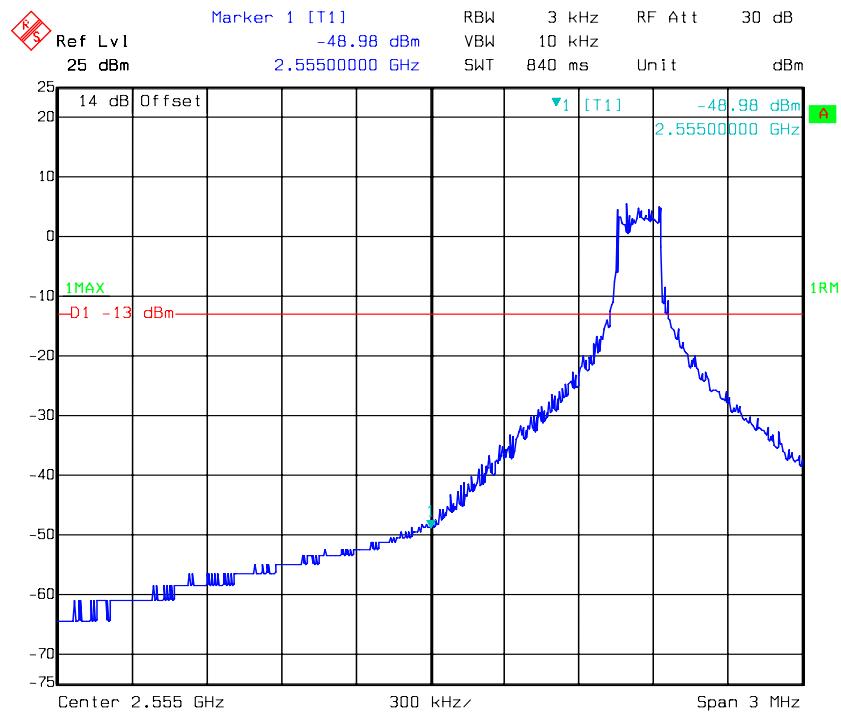
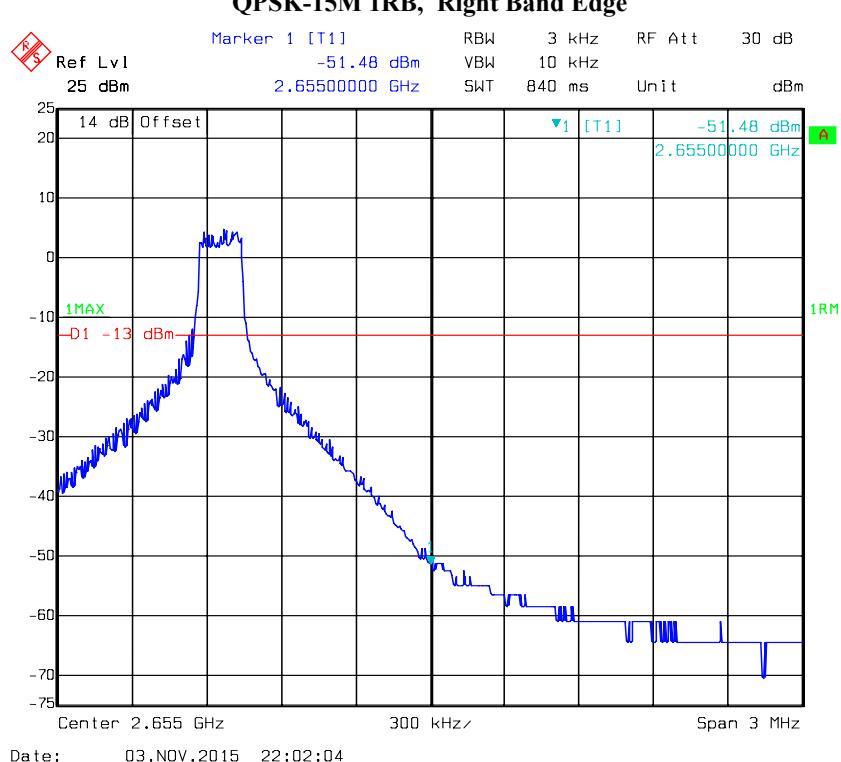


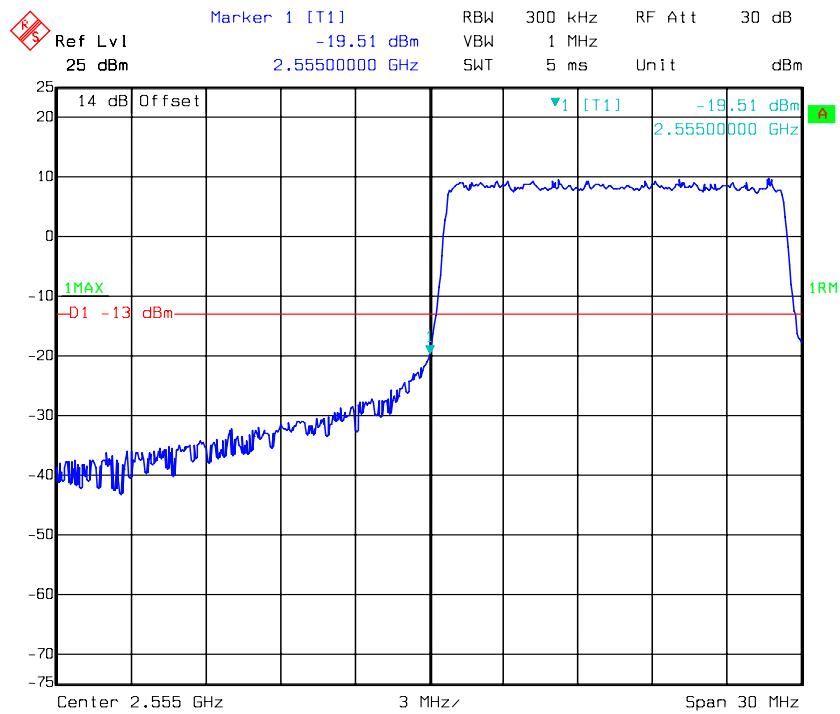
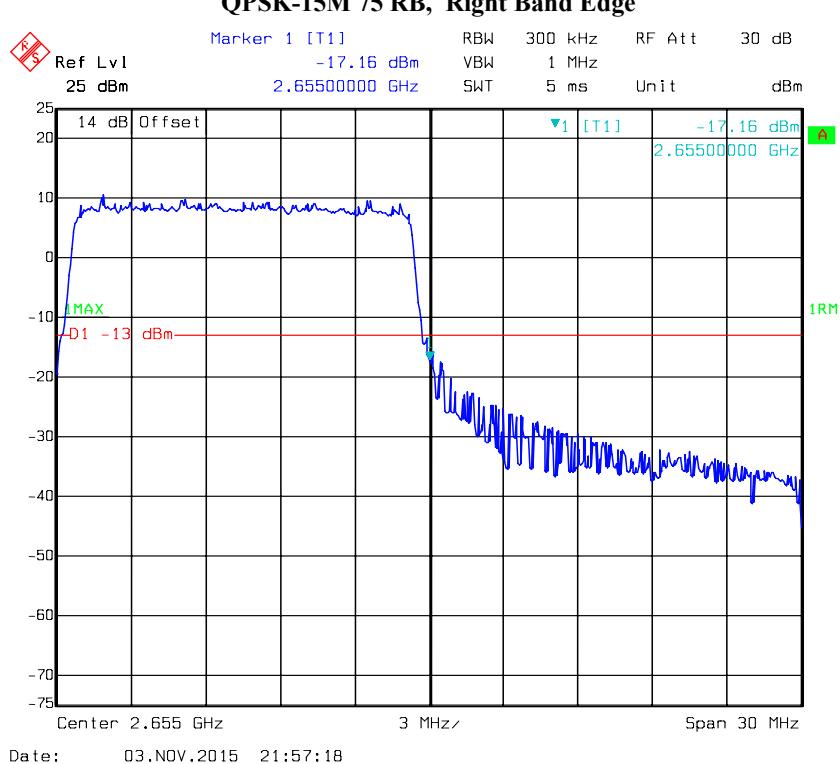
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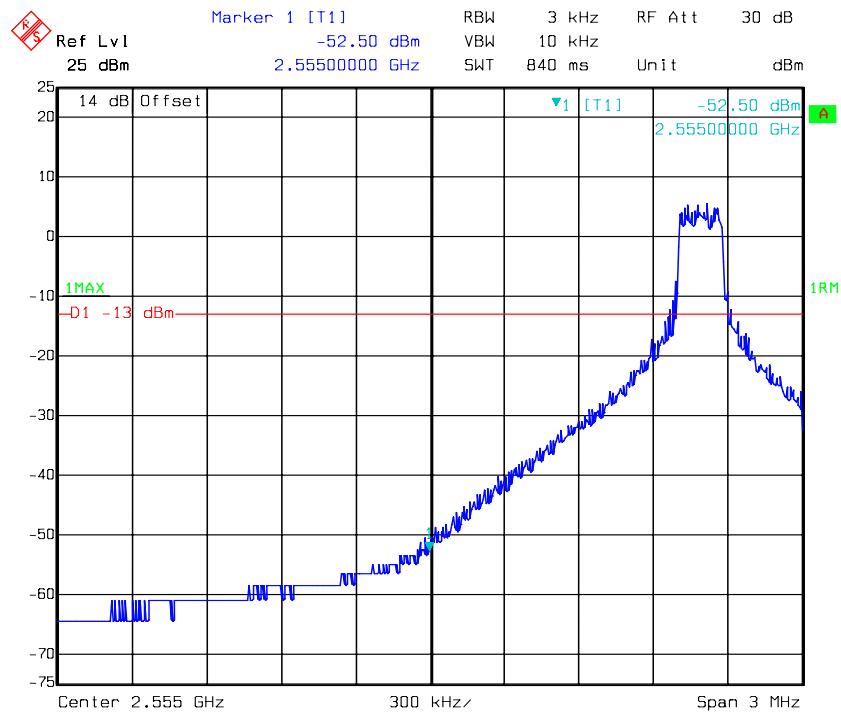
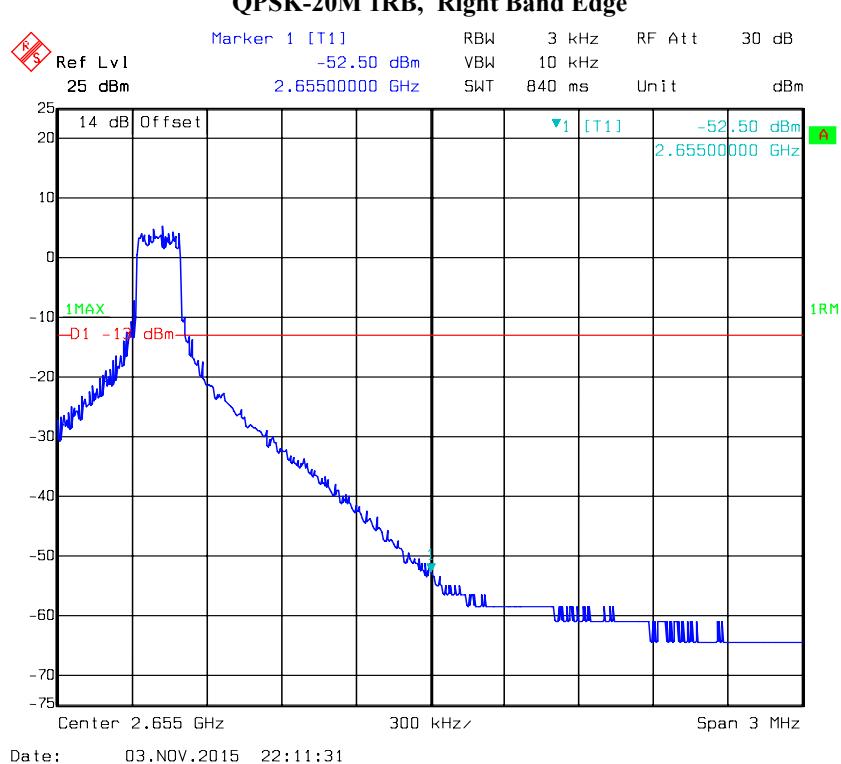
QPSK-10M 50 RB, Right Band Edge

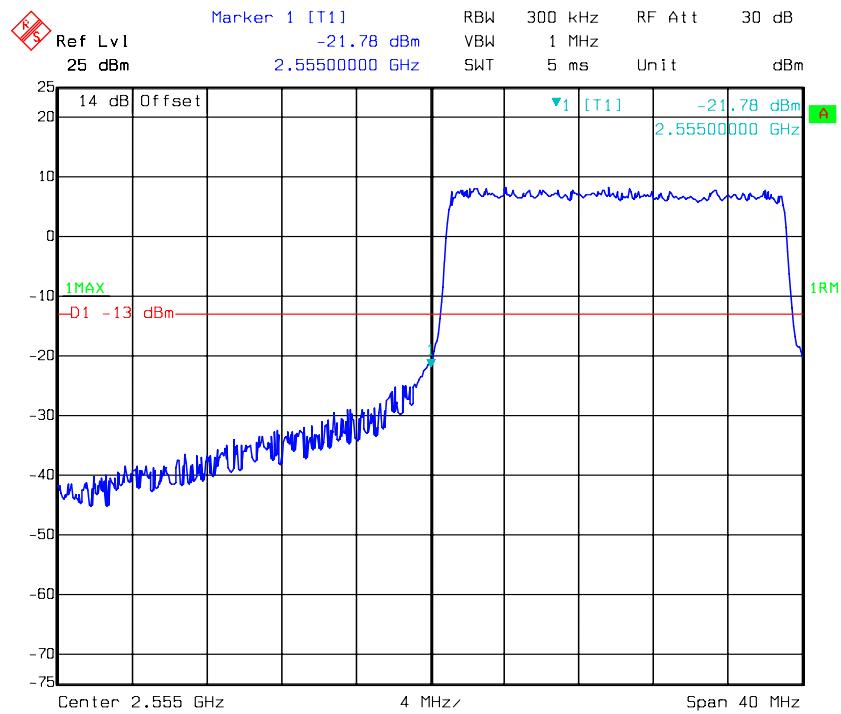
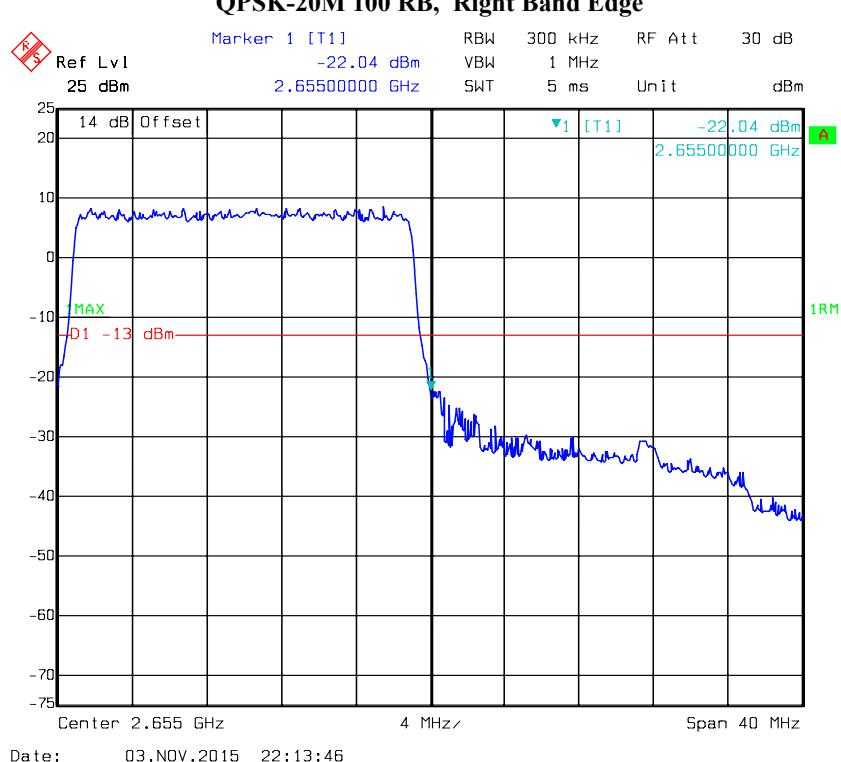


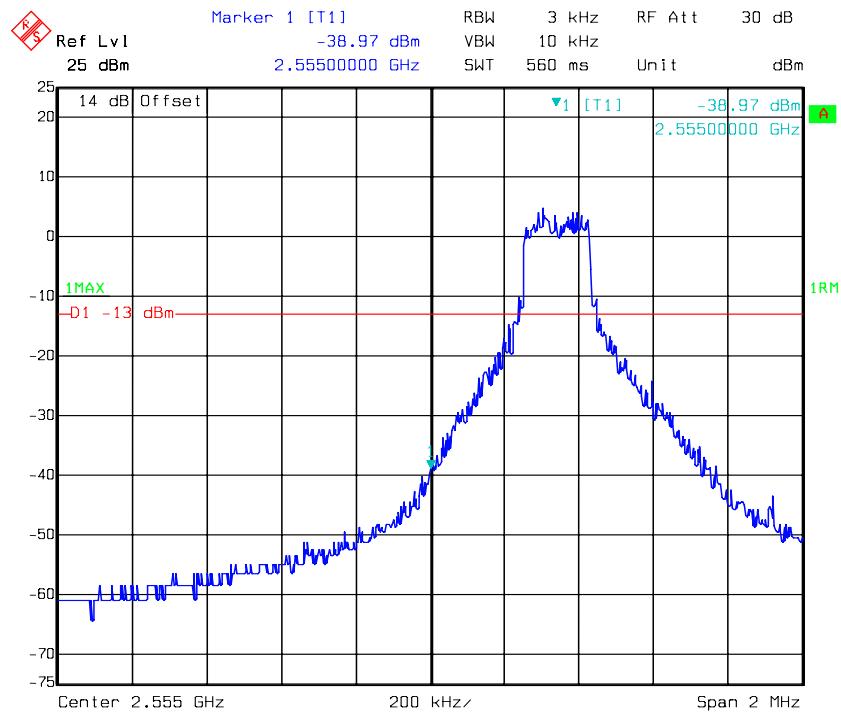
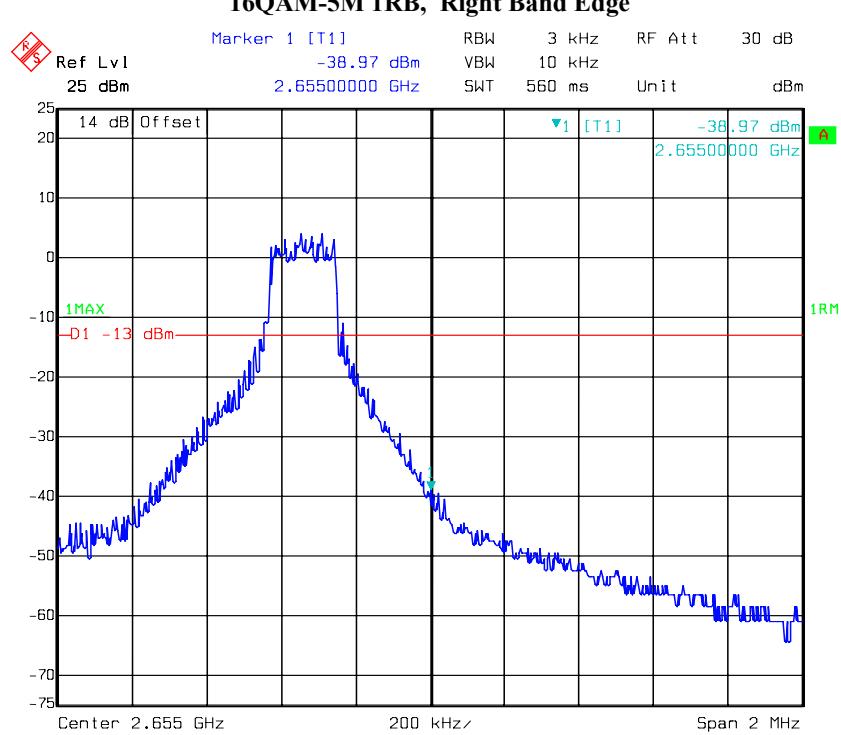
Date: 03.NOV.2015 21:45:53

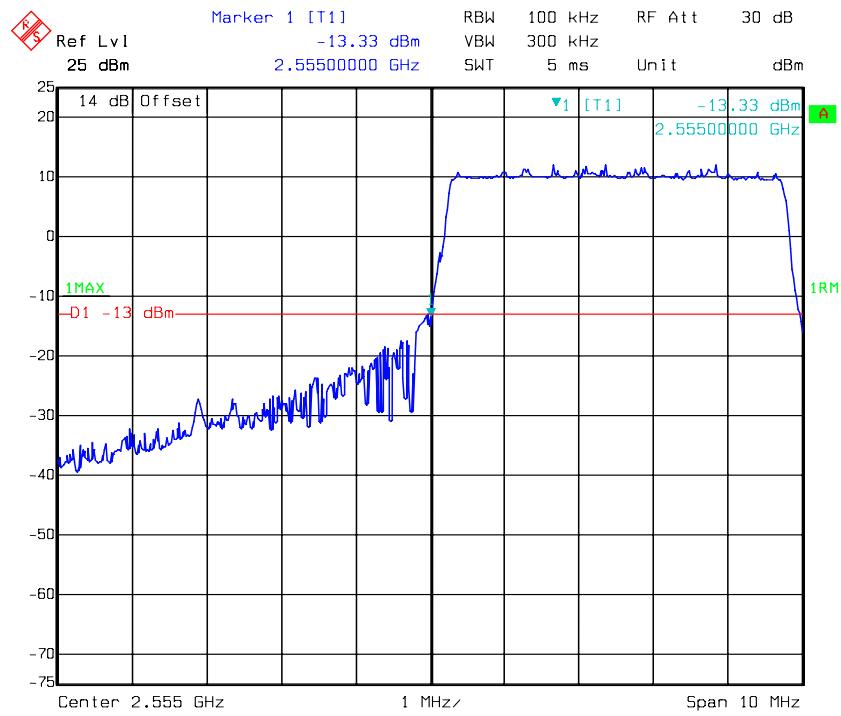
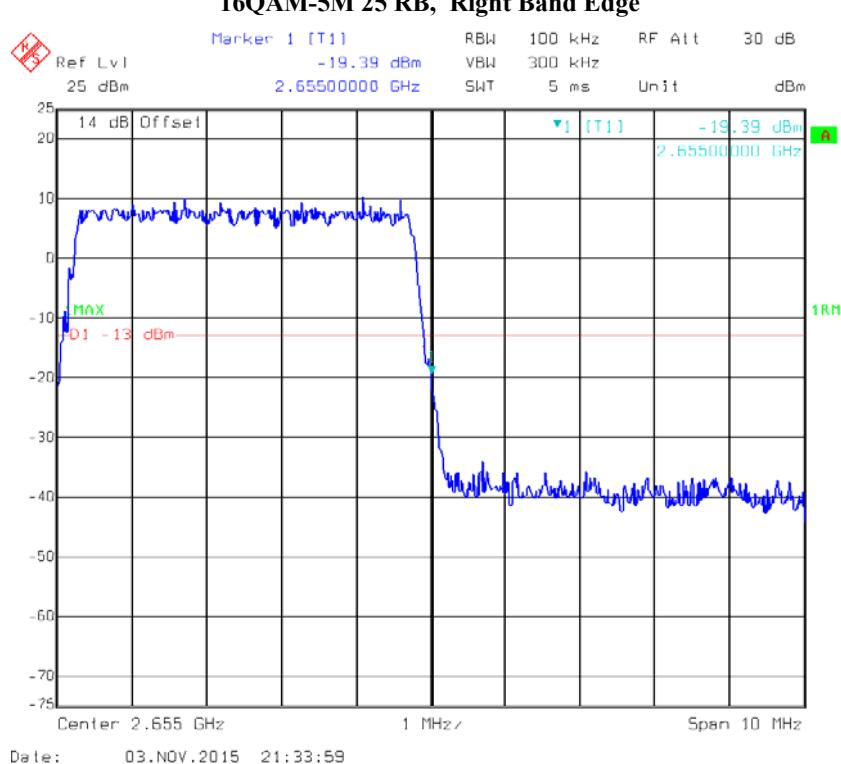
QPSK-15M 1RB, Left Band Edge**QPSK-15M 1RB, Right Band Edge**

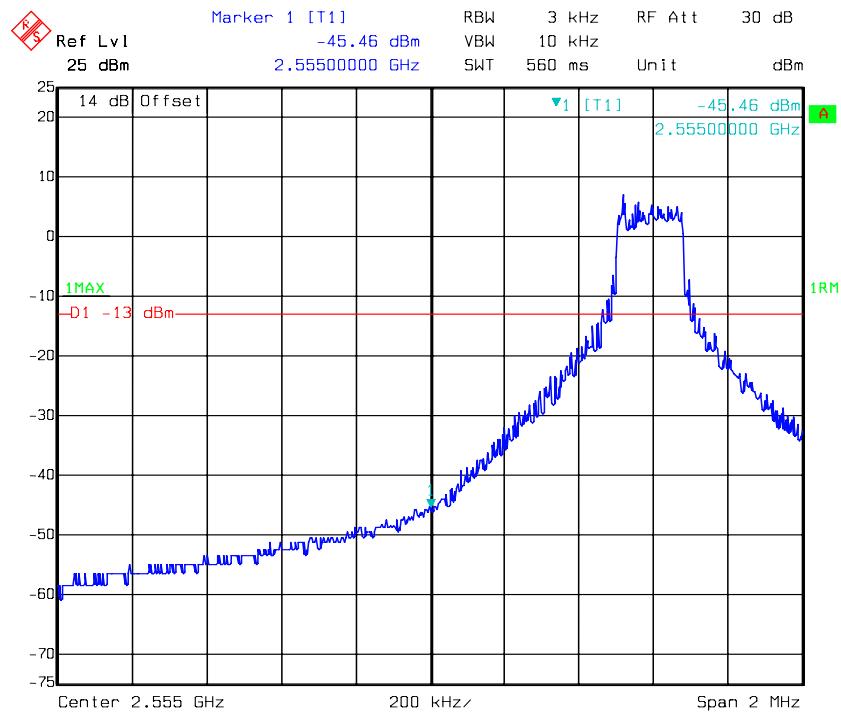
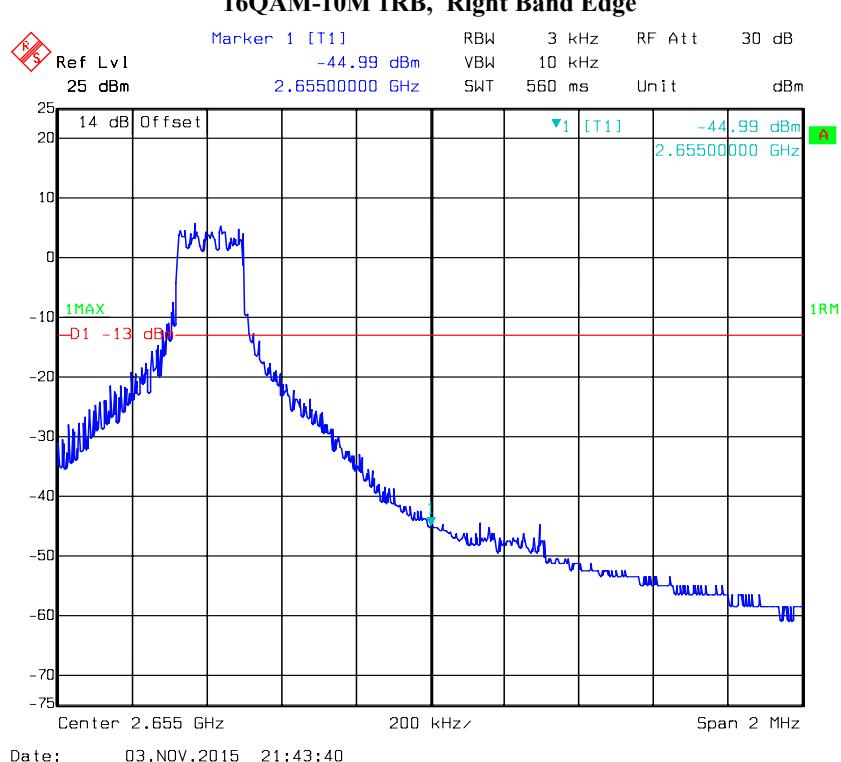
QPSK-15M 75 RB, Left Band Edge**QPSK-15M 75 RB, Right Band Edge**

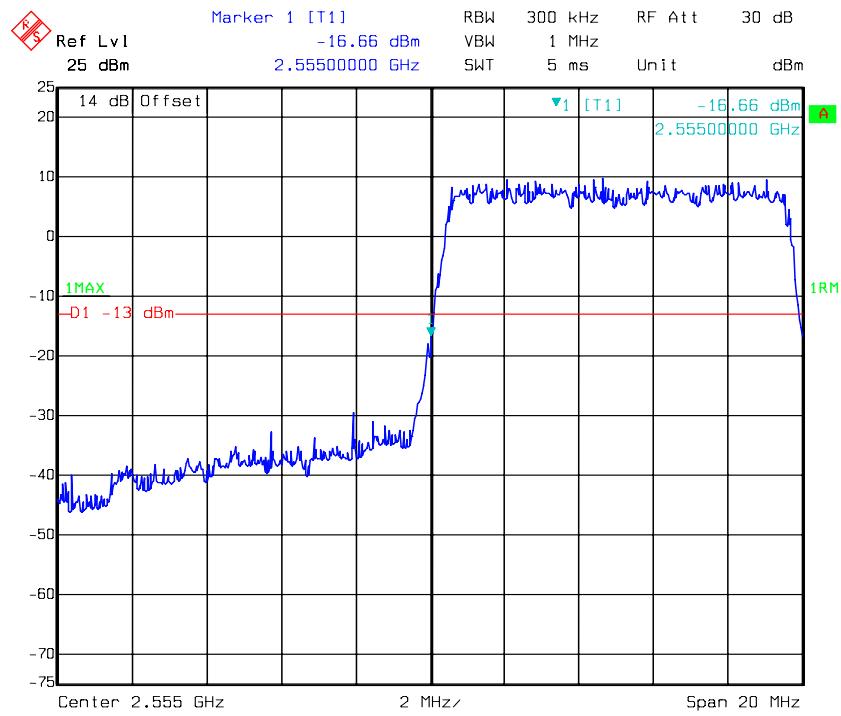
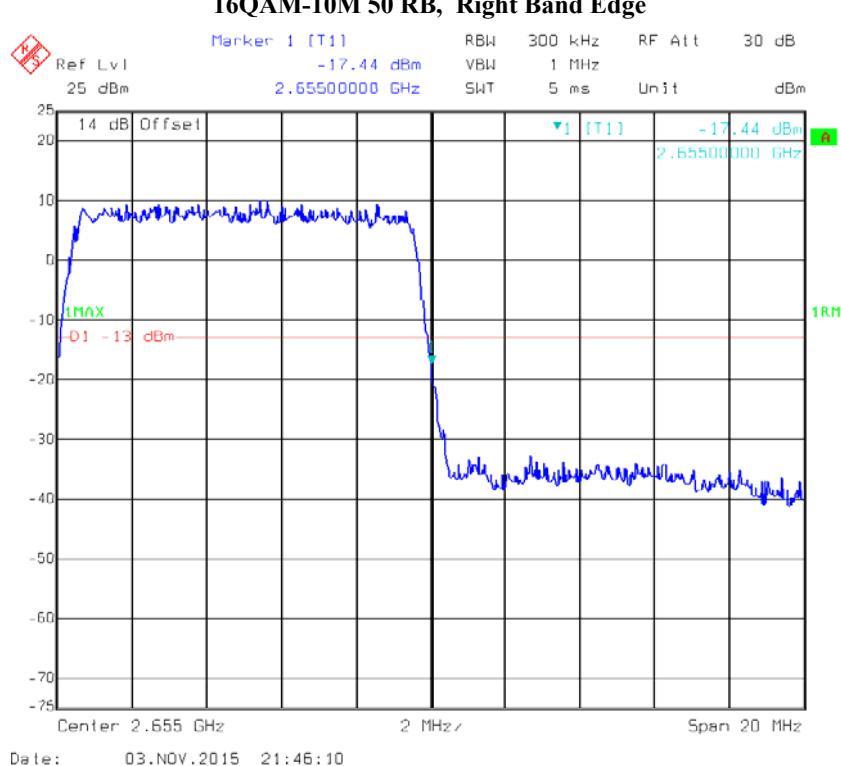
QPSK-20M 1RB, Left Band Edge**QPSK-20M 1RB, Right Band Edge**

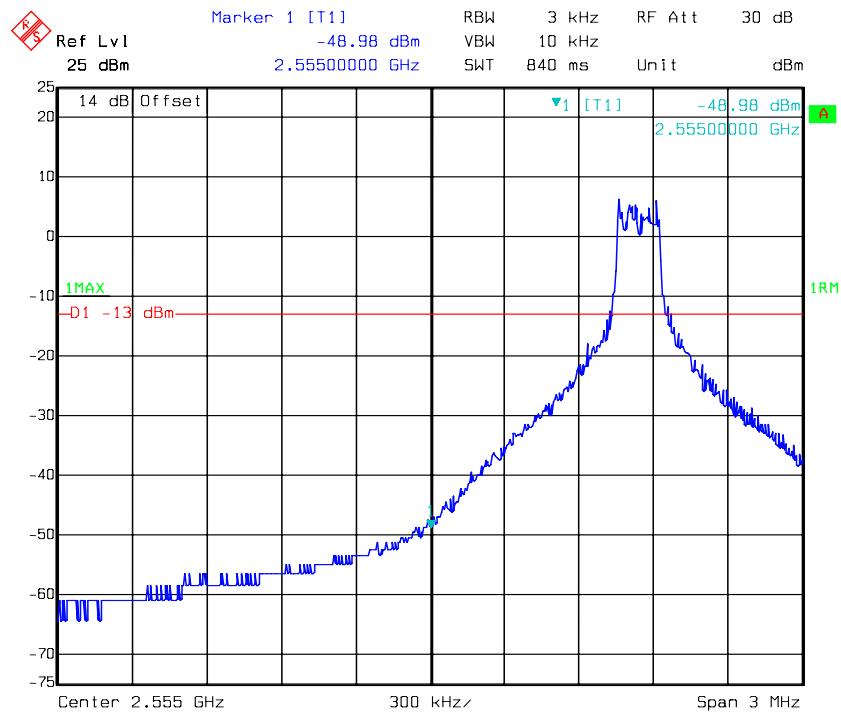
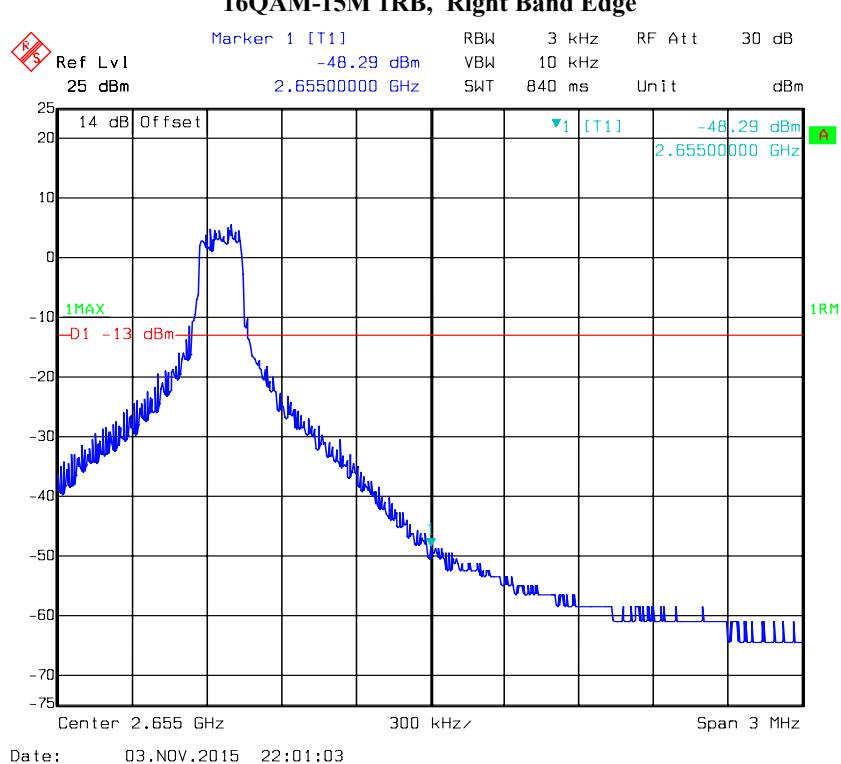
QPSK-20M 100 RB, Left Band Edge**QPSK-20M 100 RB, Right Band Edge**

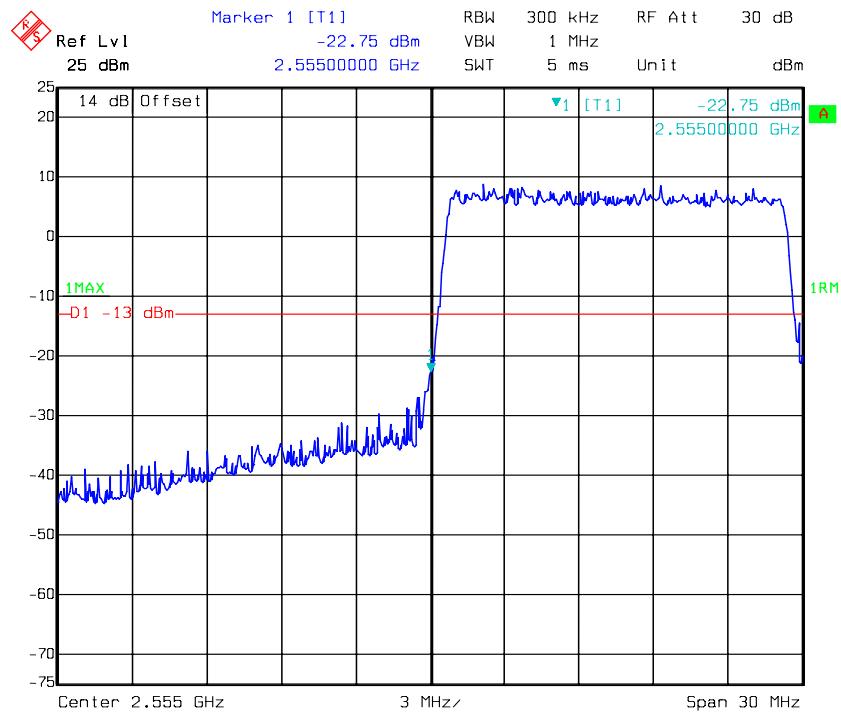
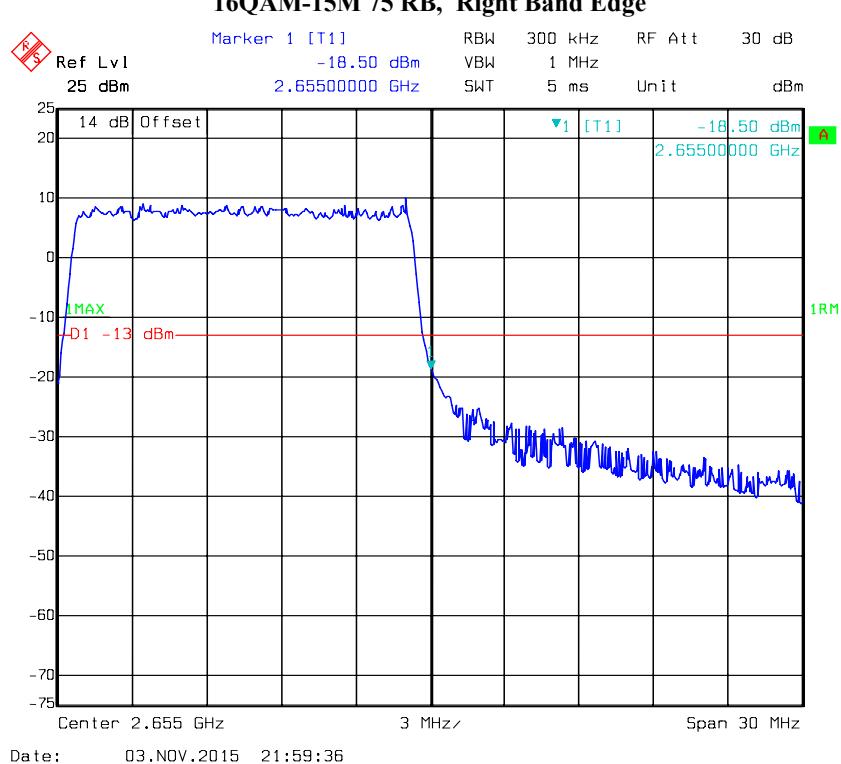
16QAM-5M 1RB, Left Band Edge**16QAM-5M 1RB, Right Band Edge**

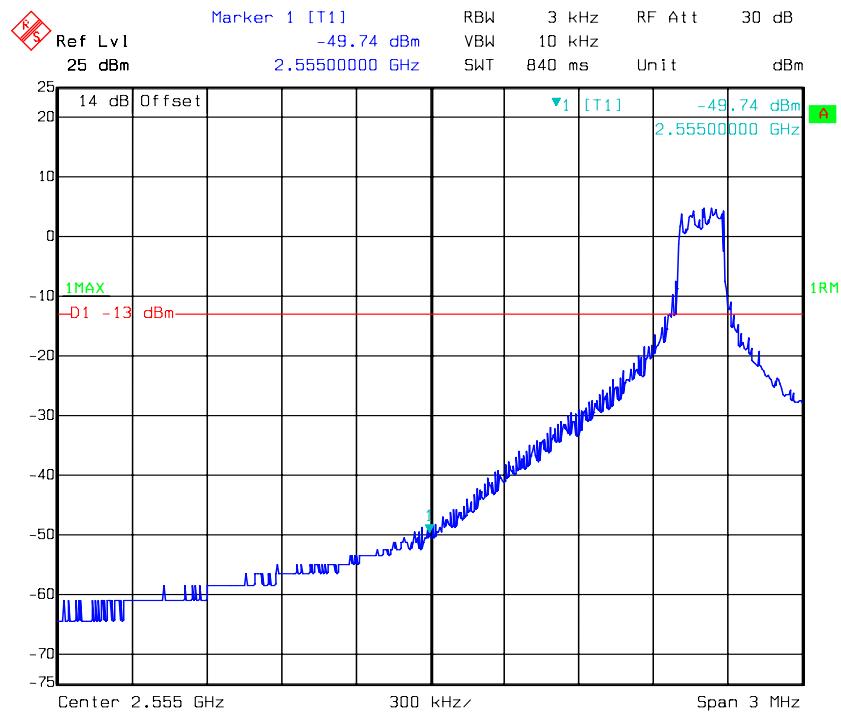
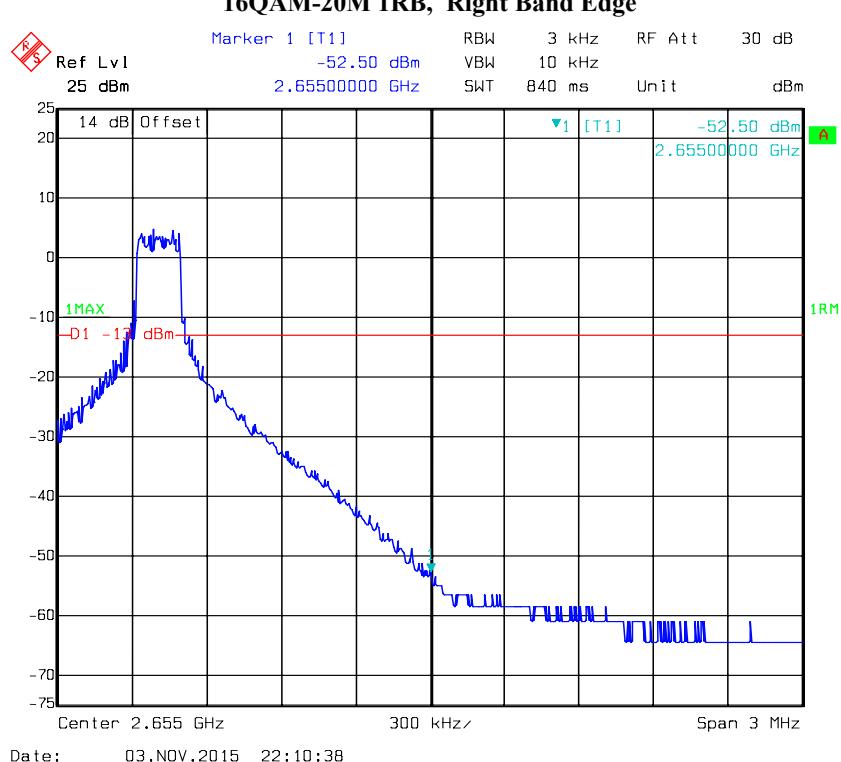
16QAM-5M 25 RB, Left Band Edge**16QAM-5M 25 RB, Right Band Edge**

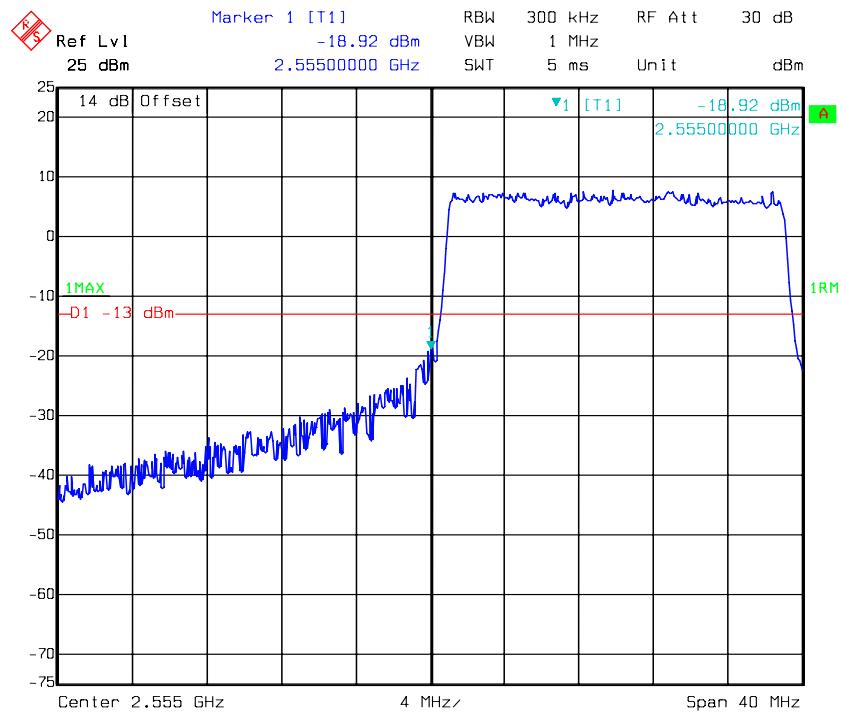
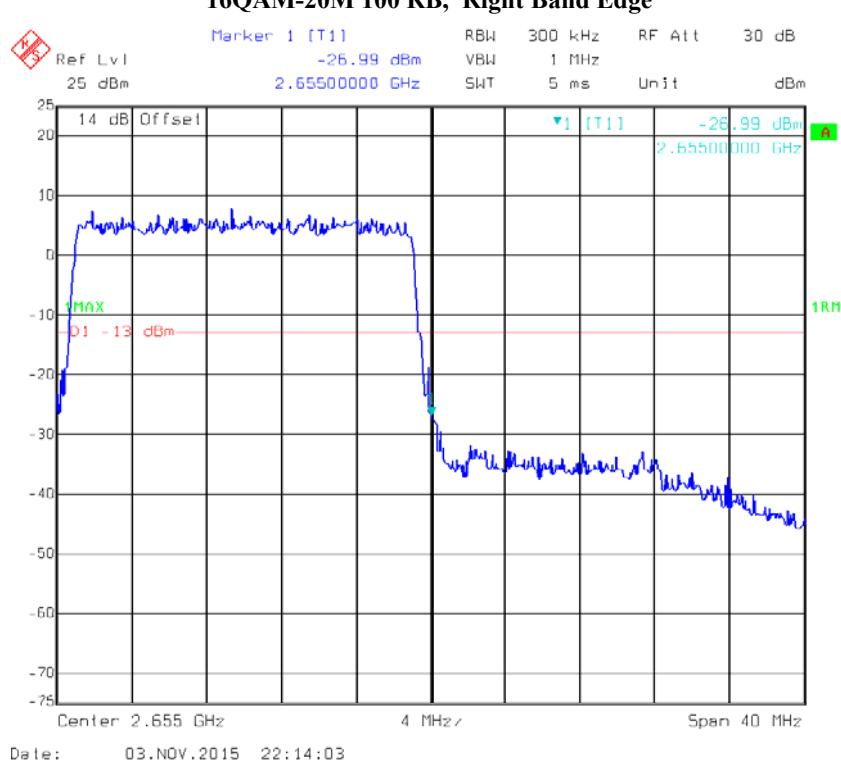
16QAM-10M 1RB, Left Band Edge**16QAM-10M 1RB, Right Band Edge**

16QAM-10M 50 RB, Left Band Edge**16QAM-10M 50 RB, Right Band Edge**

16QAM-15M 1RB, Left Band Edge**16QAM-15M 1RB, Right Band Edge**

16QAM-15M 75 RB, Left Band Edge**16QAM-15M 75 RB, Right Band Edge**

QPSK-20M 1RB, Left Band Edge**16QAM-20M 1RB, Right Band Edge**

16QAM-20M 100 RB, Left Band Edge**16QAM-20M 100 RB, Right Band Edge**

FCC §2.1055, §22.355 & §24.235 & §27.54 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235, §27.54

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

| Frequency Range (MHz) | Base, fixed (ppm) | Mobile > 3 watts (ppm) | Mobile ≤ 3 watts (ppm) |
|-----------------------|-------------------|------------------------|------------------------|
| 25 to 50 | 20.0 | 20.0 | 50.0 |
| 50 to 450 | 5.0 | 5.0 | 50.0 |
| 450 to 512 | 2.5 | 5.0 | 5.0 |
| 821 to 896 | 1.5 | 2.5 | 2.5 |
| 928 to 929. | 5.0 | N/A | N/A |
| 929 to 960. | 1.5 | N/A | N/A |
| 2110 to 2220 | 10.0 | N/A | N/A |

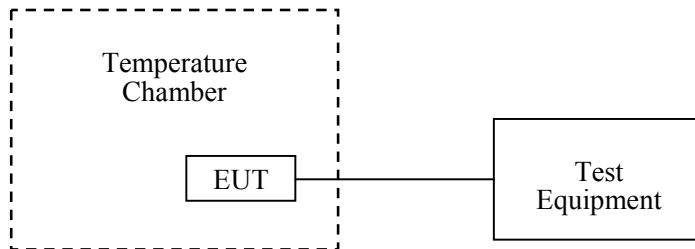
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set from 85% to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------------------------|------------|---------------|------------------|----------------------|
| Dongzhixu | High Temperature Test Chamber | DP1000 | 201105083-3 | 2015-08-01 | 2016-08-01 |
| R&S | Universal Radio Communication Tester | CMU200 | 109 038 | 2015-05-09 | 2016-05-09 |
| R&S | Wideband Radio Communication Tester | CMW500 | 106891 | 2014-11-23 | 2015-11-23 |
| N/A | Coaxial Cable | 0.1m | N/A | 2015-05-06 | 2016-05-06 |
| UNI-T | Multimeter | UT39A | M130199938 | 2015-04-10 | 2016-04-10 |
| N/A | Two-way Splitter | ODP-1-6-2S | OE0120142 | 2015-05-06 | 2016-05-06 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

| | |
|---------------------------|-----------------|
| Temperature: | 26.3~26.9 °C |
| Relative Humidity: | 50~54 % |
| ATM Pressure: | 100.1~100.4 kPa |

The testing was performed by Dean Liu from 2015-10-27 to 2015-11-03.

BC0 Band (Part 22H)

| BC0 RC1,Middle Channel, fc = 836.52MHz | | | | |
|--|-----------------|-----------------|-----------------|-------|
| Temperature | Voltage | Frequency Error | Frequency Error | Limit |
| °C | V _{DC} | Hz | ppm | ppm |
| -30 | 3.8 | -16 | -0.019 | 2.5 |
| -20 | 3.8 | -14 | -0.017 | 2.5 |
| -10 | 3.8 | -9 | -0.011 | 2.5 |
| 0 | 3.8 | -4 | -0.005 | 2.5 |
| 10 | 3.8 | -5 | -0.006 | 2.5 |
| 20 | 3.8 | -5 | -0.006 | 2.5 |
| 30 | 3.8 | -3 | -0.004 | 2.5 |
| 40 | 3.8 | -6 | -0.007 | 2.5 |
| 50 | 3.8 | -5 | -0.006 | 2.5 |
| 25 | 3.5 | -7 | -0.008 | 2.5 |
| 25 | 4.3 | -6 | -0.007 | 2.5 |

| BC0 Rel.A,Middle Channel, fc = 836.52MHz | | | | |
|--|-----------------|-----------------|-----------------|-------|
| Temperature | Voltage | Frequency Error | Frequency Error | Limit |
| °C | V _{DC} | Hz | ppm | ppm |
| -30 | 3.8 | -18 | -0.022 | 2.5 |
| -20 | 3.8 | -13 | -0.016 | 2.5 |
| -10 | 3.8 | -8 | -0.010 | 2.5 |
| 0 | 3.8 | -8 | -0.010 | 2.5 |
| 10 | 3.8 | -7 | -0.008 | 2.5 |
| 20 | 3.8 | -7 | -0.008 | 2.5 |
| 30 | 3.8 | -7 | -0.008 | 2.5 |
| 40 | 3.8 | -8 | -0.010 | 2.5 |
| 50 | 3.8 | -7 | -0.008 | 2.5 |
| 25 | 3.5 | -9 | -0.011 | 2.5 |
| 25 | 4.3 | -7 | -0.008 | 2.5 |

Cellular Band

| GMSK, Middle Channel, $f_c = 836.6$ MHz | | | | |
|---|-----------------|-----------------|-----------------|-------|
| Temperature | Voltage | Frequency Error | Frequency Error | Limit |
| °C | V _{DC} | Hz | ppm | ppm |
| -30 | 3.8 | -34 | -0.041 | 2.5 |
| -20 | 3.8 | -33 | -0.039 | 2.5 |
| -10 | 3.8 | -28 | -0.033 | 2.5 |
| 0 | 3.8 | -32 | -0.038 | 2.5 |
| 10 | 3.8 | -24 | -0.029 | 2.5 |
| 20 | 3.8 | -31 | -0.037 | 2.5 |
| 30 | 3.8 | -32 | -0.038 | 2.5 |
| 40 | 3.8 | -21 | -0.025 | 2.5 |
| 50 | 3.8 | -25 | -0.030 | 2.5 |
| 25 | 3.5 | -31 | -0.037 | 2.5 |
| 25 | 4.3 | -25 | -0.030 | 2.5 |

| EDGE, Middle Channel, $f_c = 836.6$ MHz | | | | |
|---|-----------------|-----------------|-----------------|-------|
| Temperature | Voltage | Frequency Error | Frequency Error | Limit |
| °C | V _{DC} | Hz | ppm | ppm |
| -30 | 3.8 | -30 | -0.036 | 2.5 |
| -20 | 3.8 | -30 | -0.036 | 2.5 |
| -10 | 3.8 | -29 | -0.035 | 2.5 |
| 0 | 3.8 | -31 | -0.037 | 2.5 |
| 10 | 3.8 | -24 | -0.029 | 2.5 |
| 20 | 3.8 | -29 | -0.035 | 2.5 |
| 30 | 3.8 | -30 | -0.036 | 2.5 |
| 40 | 3.8 | -23 | -0.027 | 2.5 |
| 50 | 3.8 | -26 | -0.031 | 2.5 |
| 25 | 3.5 | -30 | -0.036 | 2.5 |
| 25 | 4.3 | -25 | -0.030 | 2.5 |

WCDMA Band V: Re199

| Middle Channel, $f_c = 836.6$ MHz | | | | |
|-----------------------------------|-----------------|-----------------|-----------------|-------|
| Temperature | Voltage | Frequency Error | Frequency Error | Limit |
| °C | V _{DC} | Hz | ppm | ppm |
| -30 | 3.8 | -29 | -0.035 | 2.5 |
| -20 | 3.8 | -28 | -0.033 | 2.5 |
| -10 | 3.8 | -22 | -0.026 | 2.5 |
| 0 | 3.8 | -24 | -0.029 | 2.5 |
| 10 | 3.8 | -16 | -0.019 | 2.5 |
| 20 | 3.8 | -22 | -0.026 | 2.5 |
| 30 | 3.8 | -25 | -0.030 | 2.5 |
| 40 | 3.8 | -24 | -0.029 | 2.5 |
| 50 | 3.8 | -28 | -0.033 | 2.5 |
| 25 | 3.5 | -21 | -0.025 | 2.5 |
| 25 | 4.3 | -18 | -0.022 | 2.5 |

WCDMA Band V: HSDPA

| Middle Channel, $f_c = 836.6$ MHz | | | | |
|-----------------------------------|-----------------|-----------------|-----------------|-------|
| Temperature | Voltage | Frequency Error | Frequency Error | Limit |
| °C | V _{DC} | Hz | ppm | ppm |
| -30 | 3.8 | -29 | -0.035 | 2.5 |
| -20 | 3.8 | -25 | -0.030 | 2.5 |
| -10 | 3.8 | -20 | -0.024 | 2.5 |
| 0 | 3.8 | -21 | -0.025 | 2.5 |
| 10 | 3.8 | -23 | -0.027 | 2.5 |
| 20 | 3.8 | -21 | -0.025 | 2.5 |
| 30 | 3.8 | -26 | -0.031 | 2.5 |
| 40 | 3.8 | -22 | -0.026 | 2.5 |
| 50 | 3.8 | -26 | -0.031 | 2.5 |
| 25 | 3.5 | -28 | -0.033 | 2.5 |
| 25 | 4.3 | -14 | -0.017 | 2.5 |

WCDMA Band V: HSUPA

| Middle Channel, $f_c = 836.6$ MHz | | | | |
|-----------------------------------|-----------------|-----------------|-----------------|-------|
| Temperature | Voltage | Frequency Error | Frequency Error | Limit |
| °C | V _{DC} | Hz | ppm | ppm |
| -30 | 3.8 | -22 | -0.026 | 2.5 |
| -20 | 3.8 | -24 | -0.029 | 2.5 |
| -10 | 3.8 | -21 | -0.025 | 2.5 |
| 0 | 3.8 | -21 | -0.025 | 2.5 |
| 10 | 3.8 | -17 | -0.020 | 2.5 |
| 20 | 3.8 | -19 | -0.023 | 2.5 |
| 30 | 3.8 | -30 | -0.036 | 2.5 |
| 40 | 3.8 | -14 | -0.017 | 2.5 |
| 50 | 3.8 | -19 | -0.023 | 2.5 |
| 25 | 3.5 | -21 | -0.025 | 2.5 |
| 25 | 4.3 | -16 | -0.019 | 2.5 |

BC1 Band (Part 24E)

| BC1 RC1,Middle Channel, fc = 1880MHz | | | | |
|--------------------------------------|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -13 | -0.007 | Compliance |
| -20 | 3.8 | -15 | -0.008 | Compliance |
| -10 | 3.8 | -11 | -0.006 | Compliance |
| 0 | 3.8 | -8 | -0.004 | Compliance |
| 10 | 3.8 | -8 | -0.004 | Compliance |
| 20 | 3.8 | -4 | -0.002 | Compliance |
| 30 | 3.8 | -10 | -0.005 | Compliance |
| 40 | 3.8 | -7 | -0.004 | Compliance |
| 50 | 3.8 | -5 | -0.003 | Compliance |
| 25 | 3.5 | -8 | -0.004 | Compliance |
| 25 | 4.3 | -7 | -0.004 | Compliance |

| BC1 Rel.A,Middle Channel, fc = 1880MHz | | | | |
|---|-----------------|------------------------|------------------------|---------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -13 | -0.007 | Compliance |
| -20 | 3.8 | -11 | -0.006 | Compliance |
| -10 | 3.8 | -10 | -0.005 | Compliance |
| 0 | 3.8 | -9 | -0.005 | Compliance |
| 10 | 3.8 | -8 | -0.004 | Compliance |
| 20 | 3.8 | -7 | -0.004 | Compliance |
| 30 | 3.8 | -6 | -0.003 | Compliance |
| 40 | 3.8 | -9 | -0.005 | Compliance |
| 50 | 3.8 | -8 | -0.004 | Compliance |
| 25 | 3.5 | -9 | -0.005 | Compliance |
| 25 | 4.3 | -7 | -0.004 | Compliance |

PCS Band:

| GMSK, Middle Channel, f_c = 1880.0 MHz | | | | |
|---|-----------------|------------------------|------------------------|---------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -35 | -0.019 | Compliance |
| -20 | 3.8 | -32 | -0.017 | Compliance |
| -10 | 3.8 | -27 | -0.014 | Compliance |
| 0 | 3.8 | -28 | -0.015 | Compliance |
| 10 | 3.8 | -22 | -0.012 | Compliance |
| 20 | 3.8 | -25 | -0.013 | Compliance |
| 30 | 3.8 | -22 | -0.012 | Compliance |
| 40 | 3.8 | -19 | -0.010 | Compliance |
| 50 | 3.8 | -23 | -0.012 | Compliance |
| 25 | 3.5 | -26 | -0.014 | Compliance |
| 25 | 4.3 | -20 | -0.011 | Compliance |

| EDGE, Middle Channel, $f_c = 1880.0$ MHz | | | | |
|--|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -33 | -0.018 | Compliance |
| -20 | 3.8 | -31 | -0.016 | Compliance |
| -10 | 3.8 | -26 | -0.014 | Compliance |
| 0 | 3.8 | -27 | -0.014 | Compliance |
| 10 | 3.8 | -22 | -0.012 | Compliance |
| 20 | 3.8 | -25 | -0.013 | Compliance |
| 30 | 3.8 | -24 | -0.013 | Compliance |
| 40 | 3.8 | -19 | -0.010 | Compliance |
| 50 | 3.8 | -22 | -0.012 | Compliance |
| 25 | 3.5 | -26 | -0.014 | Compliance |
| 25 | 4.3 | -22 | -0.012 | Compliance |

WCDMA Band II: Re199

| Middle Channel, $f_c = 1880.0$ MHz | | | | |
|------------------------------------|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -23 | -0.012 | Compliance |
| -20 | 3.8 | -24 | -0.013 | Compliance |
| -10 | 3.8 | -20 | -0.011 | Compliance |
| 0 | 3.8 | -23 | -0.012 | Compliance |
| 10 | 3.8 | -16 | -0.009 | Compliance |
| 20 | 3.8 | -20 | -0.011 | Compliance |
| 30 | 3.8 | -21 | -0.011 | Compliance |
| 40 | 3.8 | -16 | -0.009 | Compliance |
| 50 | 3.8 | -20 | -0.011 | Compliance |
| 25 | 3.5 | -21 | -0.011 | Compliance |
| 25 | 4.3 | -19 | -0.010 | Compliance |

WCDMA Band II: HSDPA

| Middle Channel, $f_c = 1880.0$ MHz | | | | |
|------------------------------------|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -25 | -0.013 | Compliance |
| -20 | 3.8 | -23 | -0.012 | Compliance |
| -10 | 3.8 | -20 | -0.011 | Compliance |
| 0 | 3.8 | -20 | -0.011 | Compliance |
| 10 | 3.8 | -15 | -0.008 | Compliance |
| 20 | 3.8 | -19 | -0.010 | Compliance |
| 30 | 3.8 | -18 | -0.010 | Compliance |
| 40 | 3.8 | -11 | -0.006 | Compliance |
| 50 | 3.8 | -17 | -0.009 | Compliance |
| 25 | 3.5 | -22 | -0.012 | Compliance |
| 25 | 4.3 | -17 | -0.009 | Compliance |

WCDMA Band II: HSUPA

| Middle Channel, $f_c = 1880.0$ MHz | | | | |
|------------------------------------|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -25 | -0.013 | Compliance |
| -20 | 3.8 | -25 | -0.013 | Compliance |
| -10 | 3.8 | -22 | -0.012 | Compliance |
| 0 | 3.8 | -23 | -0.012 | Compliance |
| 10 | 3.8 | -16 | -0.009 | Compliance |
| 20 | 3.8 | -20 | -0.011 | Compliance |
| 30 | 3.8 | -27 | -0.014 | Compliance |
| 40 | 3.8 | -25 | -0.013 | Compliance |
| 50 | 3.8 | -28 | -0.015 | Compliance |
| 25 | 3.5 | -23 | -0.012 | Compliance |
| 25 | 4.3 | -19 | -0.010 | Compliance |

PART 27:**LTE Band 2:**

| QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 1880$ MHz | | | | |
|---|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -5.02 | -0.0027 | Compliance |
| -20 | 3.8 | -5.42 | -0.0029 | Compliance |
| -10 | 3.8 | -4.39 | -0.0023 | Compliance |
| 0 | 3.8 | -4.13 | -0.0022 | Compliance |
| 10 | 3.8 | -4.62 | -0.0025 | Compliance |
| 20 | 3.8 | -4.29 | -0.0023 | Compliance |
| 30 | 3.8 | -4.92 | -0.0026 | Compliance |
| 40 | 3.8 | -4.57 | -0.0024 | Compliance |
| 50 | 3.8 | -4.76 | -0.0025 | Compliance |
| 25 | 3.5 | -4.98 | -0.0026 | Compliance |
| 25 | 4.3 | -4.53 | -0.0024 | Compliance |

| 16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 1880$ MHz | | | | |
|--|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -6.43 | -0.0034 | Compliance |
| -20 | 3.8 | -5.55 | -0.0030 | Compliance |
| -10 | 3.8 | -5.97 | -0.0032 | Compliance |
| 0 | 3.8 | -6.11 | -0.0033 | Compliance |
| 10 | 3.8 | -6.25 | -0.0033 | Compliance |
| 20 | 3.8 | -5.9 | -0.0031 | Compliance |
| 30 | 3.8 | -6.28 | -0.0033 | Compliance |
| 40 | 3.8 | -6.36 | -0.0034 | Compliance |
| 50 | 3.8 | -6.62 | -0.0035 | Compliance |
| 25 | 3.5 | -6.42 | -0.0034 | Compliance |
| 25 | 4.3 | -5.36 | -0.0029 | Compliance |

LTE Band 4:

| QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 1732.5$ MHz | | | | |
|---|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -6.32 | -0.0036 | Compliance |
| -20 | 3.8 | -5.44 | -0.0031 | Compliance |
| -10 | 3.8 | -5.64 | -0.0033 | Compliance |
| 0 | 3.8 | -6.03 | -0.0035 | Compliance |
| 10 | 3.8 | -5.65 | -0.0033 | Compliance |
| 20 | 3.8 | -5.67 | -0.0033 | Compliance |
| 30 | 3.8 | -5.59 | -0.0032 | Compliance |
| 40 | 3.8 | -5.61 | -0.0032 | Compliance |
| 50 | 3.8 | -5.47 | -0.0032 | Compliance |
| 25 | 3.5 | -6 | -0.0035 | Compliance |
| 25 | 4.3 | -5.93 | -0.0034 | Compliance |

| 16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 1732.5$ MHz | | | | |
|--|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -5.48 | -0.0032 | Compliance |
| -20 | 3.8 | -5.41 | -0.0031 | Compliance |
| -10 | 3.8 | -5.34 | -0.0031 | Compliance |
| 0 | 3.8 | -5.51 | -0.0032 | Compliance |
| 10 | 3.8 | -6.19 | -0.0036 | Compliance |
| 20 | 3.8 | -5.51 | -0.0032 | Compliance |
| 30 | 3.8 | -5.66 | -0.0033 | Compliance |
| 40 | 3.8 | -6.2 | -0.0036 | Compliance |
| 50 | 3.8 | -6.49 | -0.0037 | Compliance |
| 25 | 3.5 | -6.53 | -0.0038 | Compliance |
| 25 | 4.3 | -6.31 | -0.0036 | Compliance |

LTE Band 12:

| QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 707.5$ MHz | | | | |
|--|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -6.61 | -0.0093 | Compliance |
| -20 | 3.8 | -6.07 | -0.0086 | Compliance |
| -10 | 3.8 | -6.04 | -0.0085 | Compliance |
| 0 | 3.8 | -6.99 | -0.0099 | Compliance |
| 10 | 3.8 | -6.63 | -0.0094 | Compliance |
| 20 | 3.8 | -6.76 | -0.0096 | Compliance |
| 30 | 3.8 | -6.11 | -0.0086 | Compliance |
| 40 | 3.8 | -6.67 | -0.0094 | Compliance |
| 50 | 3.8 | -6.67 | -0.0094 | Compliance |
| 25 | 3.5 | -6.87 | -0.0097 | Compliance |
| 25 | 4.3 | -6.62 | -0.0094 | Compliance |

| 16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 707.5$ MHz | | | | |
|---|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -6.67 | -0.0094 | Compliance |
| -20 | 3.8 | -6.55 | -0.0093 | Compliance |
| -10 | 3.8 | -6.01 | -0.0085 | Compliance |
| 0 | 3.8 | -6.6 | -0.0093 | Compliance |
| 10 | 3.8 | -6.09 | -0.0086 | Compliance |
| 20 | 3.8 | -6.28 | -0.0089 | Compliance |
| 30 | 3.8 | -6.34 | -0.0090 | Compliance |
| 40 | 3.8 | -7.01 | -0.0099 | Compliance |
| 50 | 3.8 | -6.57 | -0.0093 | Compliance |
| 25 | 3.5 | -6.25 | -0.0088 | Compliance |
| 25 | 4.3 | -6.1 | -0.0086 | Compliance |

LTE Band 17:

| QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 710$ MHz | | | | |
|--|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -7.26 | -0.0102 | Compliance |
| -20 | 3.8 | -6.82 | -0.0096 | Compliance |
| -10 | 3.8 | -6.1 | -0.0086 | Compliance |
| 0 | 3.8 | -6.53 | -0.0092 | Compliance |
| 10 | 3.8 | -6.23 | -0.0088 | Compliance |
| 20 | 3.8 | -6.64 | -0.0094 | Compliance |
| 30 | 3.8 | -7.05 | -0.0099 | Compliance |
| 40 | 3.8 | -7.01 | -0.0099 | Compliance |
| 50 | 3.8 | -7.13 | -0.0100 | Compliance |
| 25 | 3.5 | -6.57 | -0.0093 | Compliance |
| 25 | 4.3 | -6.85 | -0.0096 | Compliance |

| 16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 710$ MHz | | | | |
|---|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -6.59 | -0.0093 | Compliance |
| -20 | 3.8 | -6.37 | -0.0090 | Compliance |
| -10 | 3.8 | -6.74 | -0.0095 | Compliance |
| 0 | 3.8 | -6.67 | -0.0094 | Compliance |
| 10 | 3.8 | -7.04 | -0.0099 | Compliance |
| 20 | 3.8 | -7.03 | -0.0099 | Compliance |
| 30 | 3.8 | -6.97 | -0.0098 | Compliance |
| 40 | 3.8 | -7.2 | -0.0101 | Compliance |
| 50 | 3.8 | -7.08 | -0.0100 | Compliance |
| 25 | 3.5 | -6.6 | -0.0093 | Compliance |
| 25 | 4.3 | -6.82 | -0.0096 | Compliance |

LTE Band 41:

| QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 2605$ MHz | | | | |
|---|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -5.79 | -0.0022 | Compliance |
| -20 | 3.8 | -6.15 | -0.0024 | Compliance |
| -10 | 3.8 | -6.28 | -0.0024 | Compliance |
| 0 | 3.8 | -6.3 | -0.0024 | Compliance |
| 10 | 3.8 | -5.68 | -0.0022 | Compliance |
| 20 | 3.8 | -5.79 | -0.0022 | Compliance |
| 30 | 3.8 | -5.87 | -0.0023 | Compliance |
| 40 | 3.8 | -5.8 | -0.0022 | Compliance |
| 50 | 3.8 | -6.46 | -0.0025 | Compliance |
| 25 | 3.5 | -5.47 | -0.0021 | Compliance |
| 25 | 4.3 | -6.14 | -0.0024 | Compliance |

| 16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 2605$ MHz | | | | |
|--|-----------------|-----------------|-----------------|------------|
| Temperature | Voltage | Frequency Error | Frequency Error | Result |
| °C | V _{DC} | Hz | ppm | |
| -30 | 3.8 | -6 | -0.0023 | Compliance |
| -20 | 3.8 | -5.72 | -0.0022 | Compliance |
| -10 | 3.8 | -5.66 | -0.0022 | Compliance |
| 0 | 3.8 | -5.46 | -0.0021 | Compliance |
| 10 | 3.8 | -5.98 | -0.0023 | Compliance |
| 20 | 3.8 | -5.89 | -0.0023 | Compliance |
| 30 | 3.8 | -6.35 | -0.0024 | Compliance |
| 40 | 3.8 | -6.28 | -0.0024 | Compliance |
| 50 | 3.8 | -6.41 | -0.0025 | Compliance |
| 25 | 3.5 | -5.67 | -0.0022 | Compliance |
| 25 | 4.3 | -6.46 | -0.0025 | Compliance |

Note: The fundamental emissions stay within the authorized bands of operation based on the frequency deviation measured is small.

******* END OF REPORT *******