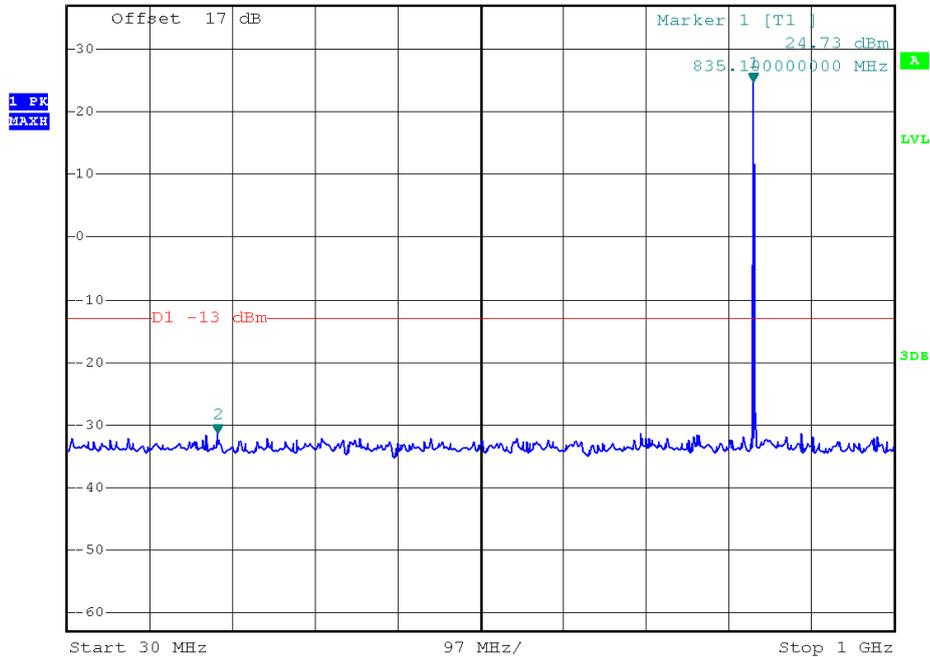




Band	LTE Band 5	Channel	Middle
Bandwidth	3MHz	Modulation	QPSK



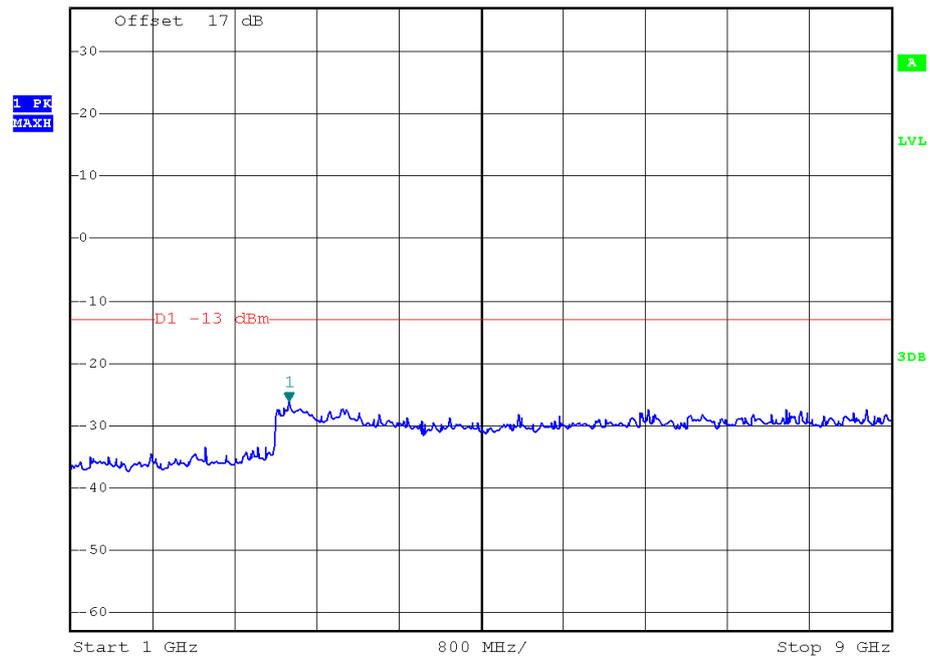
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -31.41 dBm
*VBW 300 kHz 206.540000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.12 dBm
*VBW 3 MHz 3.128000000 GHz
SWT 160 ms



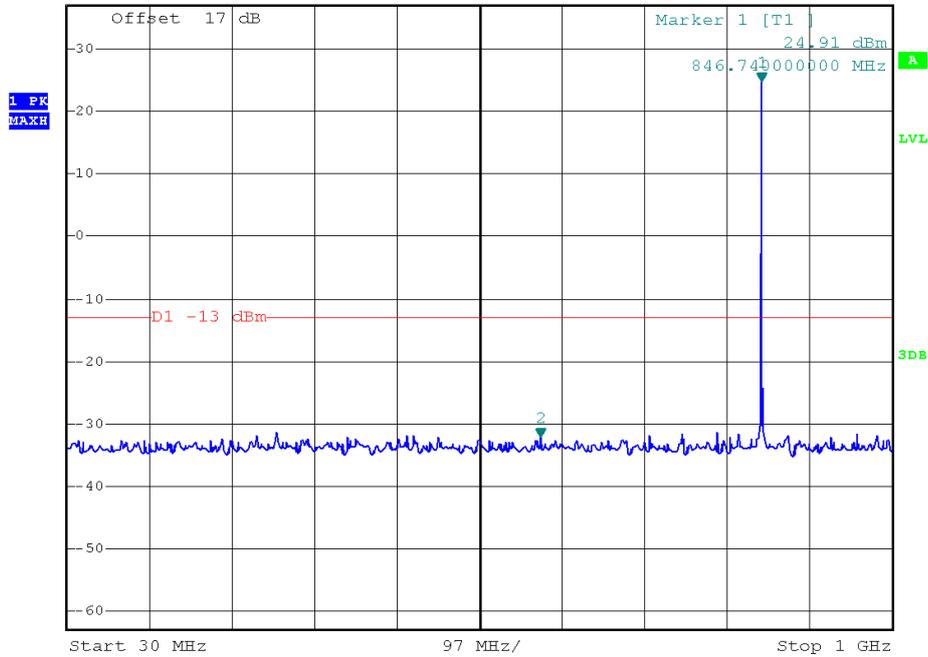
RB Size 1, RB Offset 0 1GHz to 9GHz



Band	LTE Band 5	Channel	High
Bandwidth	3MHz	Modulation	QPSK



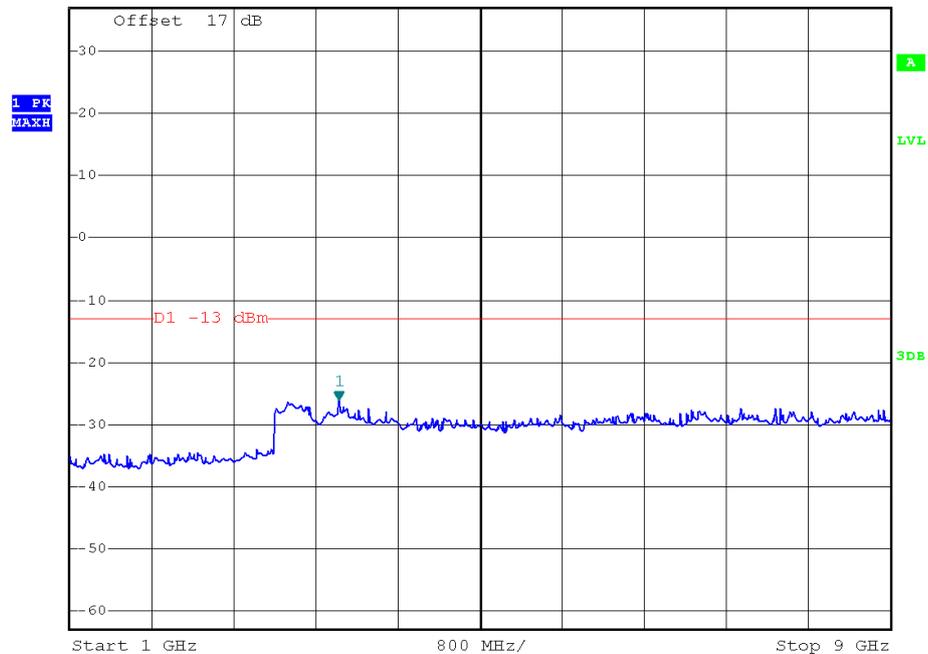
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -32.25 dBm
*VBW 300 kHz 586.780000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.25 dBm
*VBW 3 MHz 3.624000000 GHz
SWT 160 ms



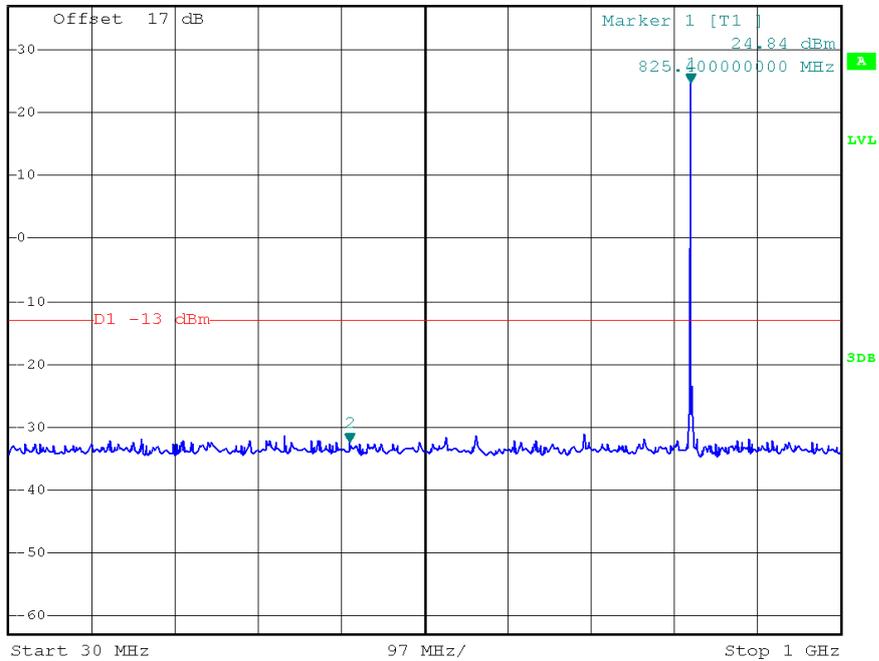
RB Size 1, RB Offset 0 1GHz to 9GHz



Band	LTE Band 5	Channel	Low
Bandwidth	5MHz	Modulation	QPSK



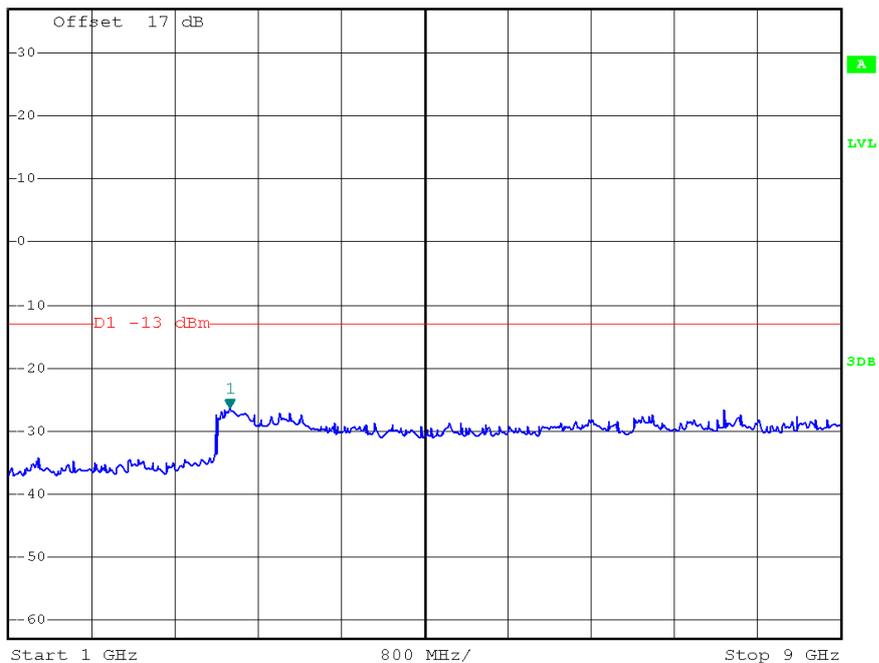
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -32.33 dBm
*VBW 300 kHz 427.700000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.26 dBm
*VBW 3 MHz 3.128000000 GHz
SWT 160 ms



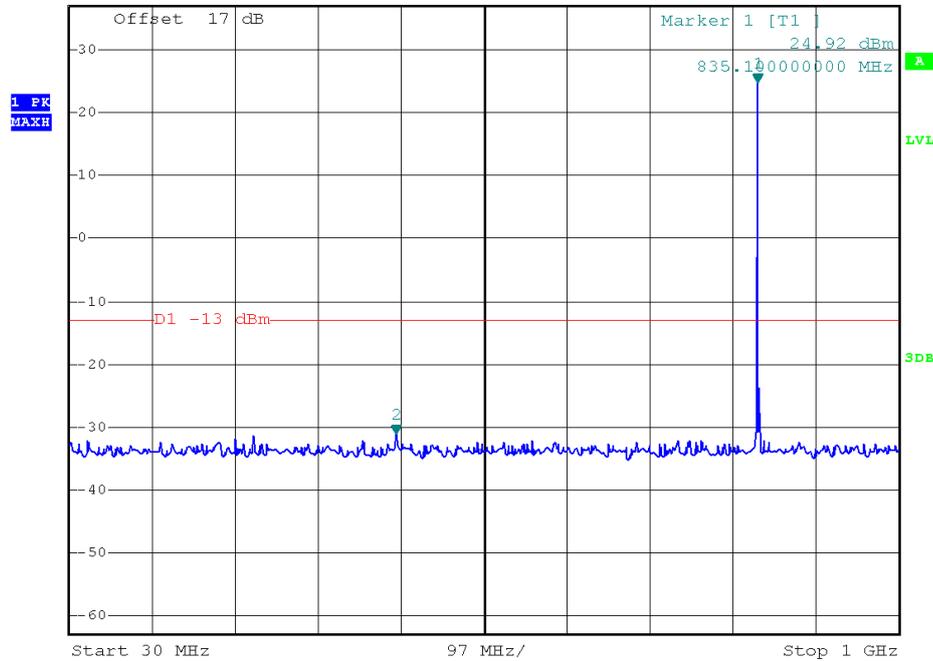
RB Size 1, RB Offset 0 1GHz to 9GHz



Band	LTE Band 5	Channel	Middle
Bandwidth	5MHz	Modulation	QPSK



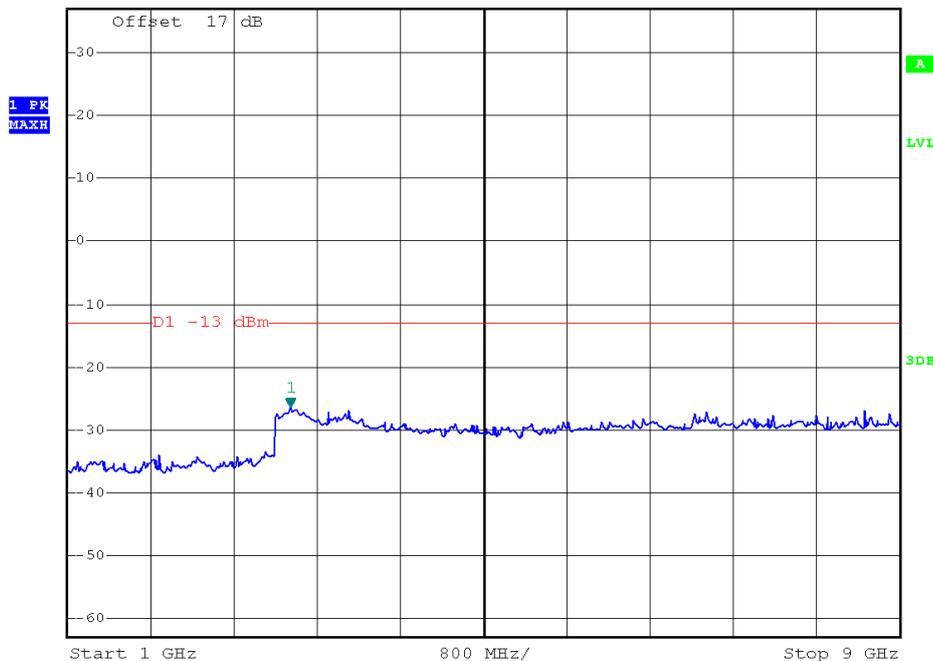
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -31.00 dBm
*VBW 300 kHz 412.180000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.34 dBm
*VBW 3 MHz 3.144000000 GHz
SWT 160 ms



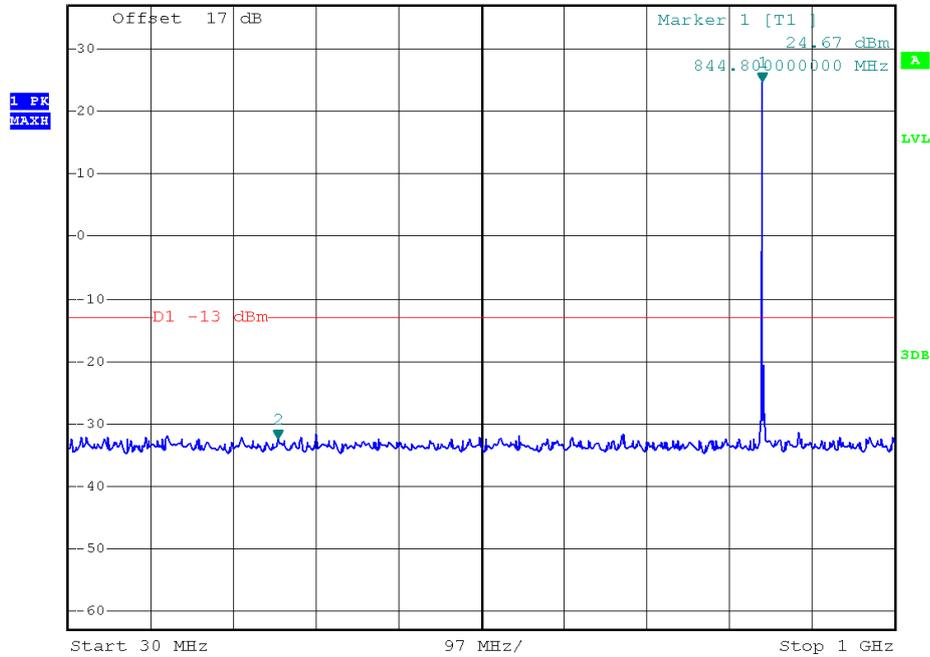
RB Size 1, RB Offset 0 1GHz to 9GHz



Band	LTE Band 5	Channel	High
Bandwidth	5MHz	Modulation	QPSK



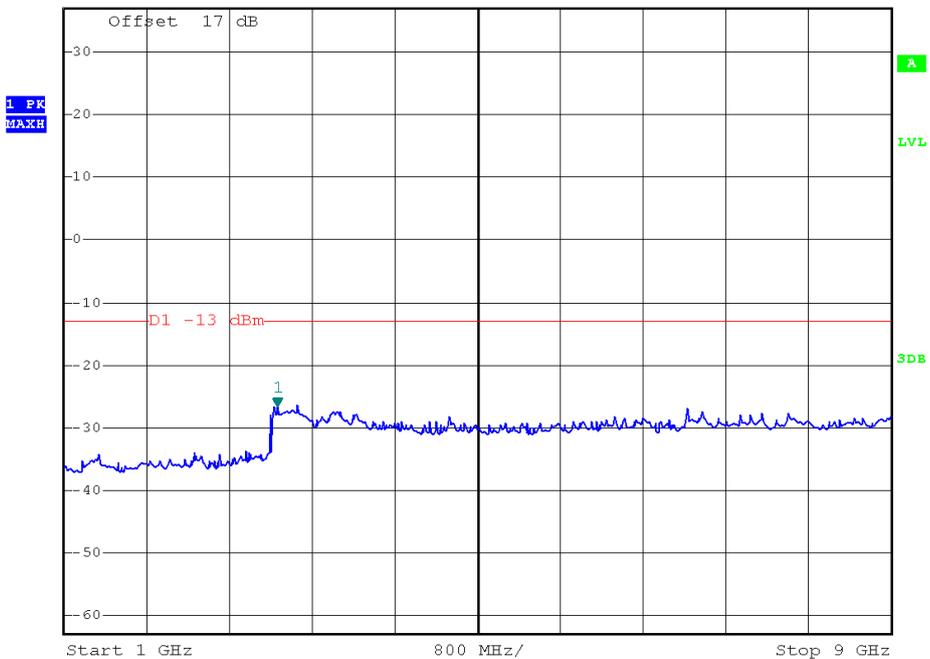
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -32.47 dBm
*VBW 300 kHz 276.380000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



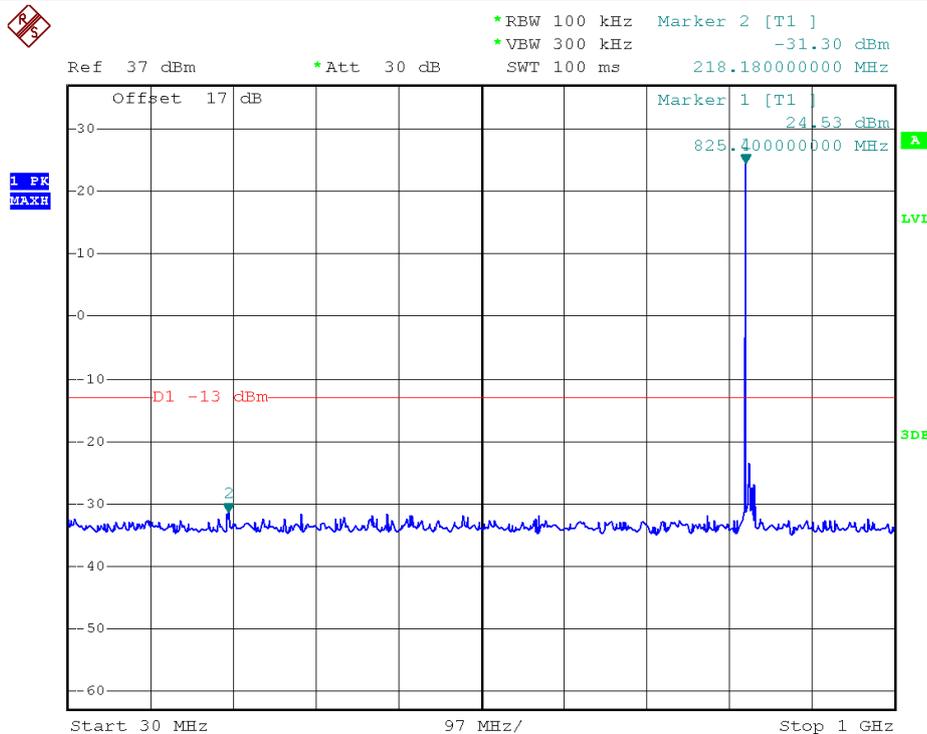
Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.54 dBm
*VBW 3 MHz 3.064000000 GHz
SWT 160 ms



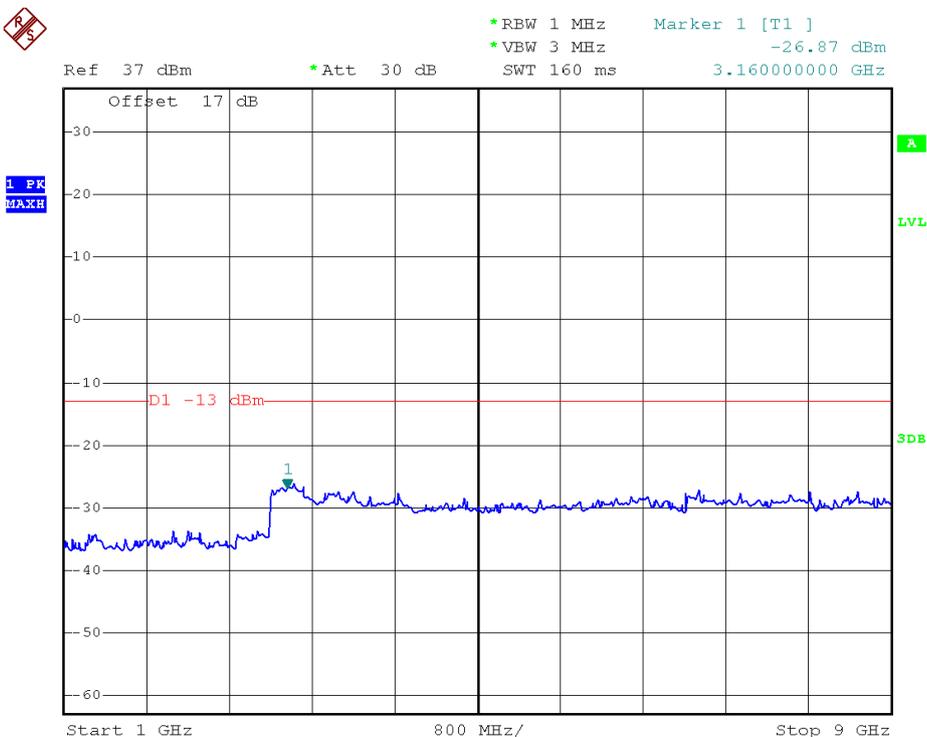
RB Size 1, RB Offset 0 1GHz to 9GHz



Band	LTE Band 5	Channel	Low
Bandwidth	10MHz	Modulation	QPSK



RB Size 1, RB Offset 0 30MHz to 1GHz



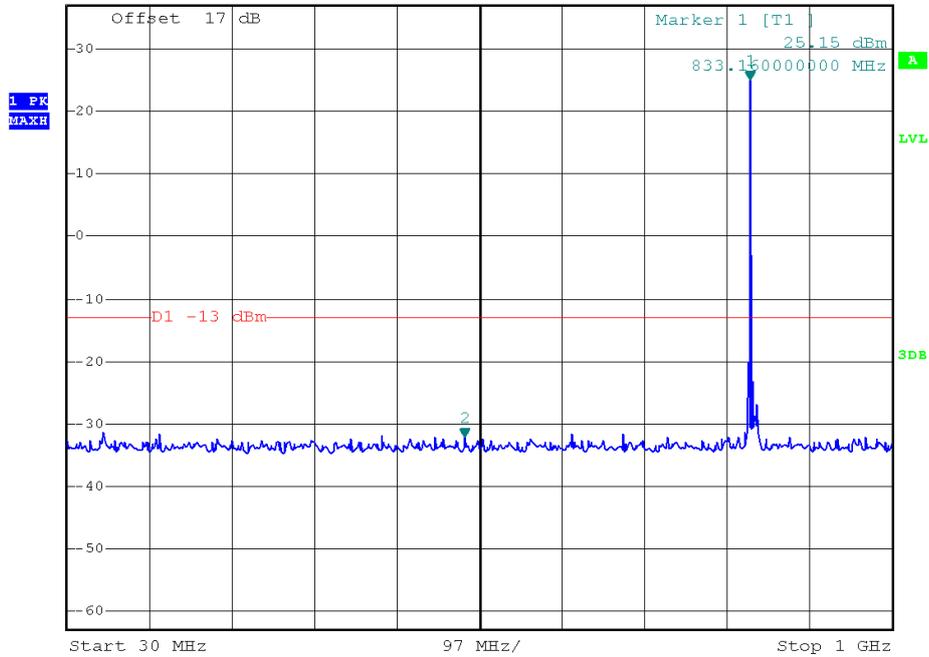
RB Size 1, RB Offset 0 1GHz to 9GHz



Band	LTE Band 5	Channel	Middle
Bandwidth	10MHz	Modulation	QPSK



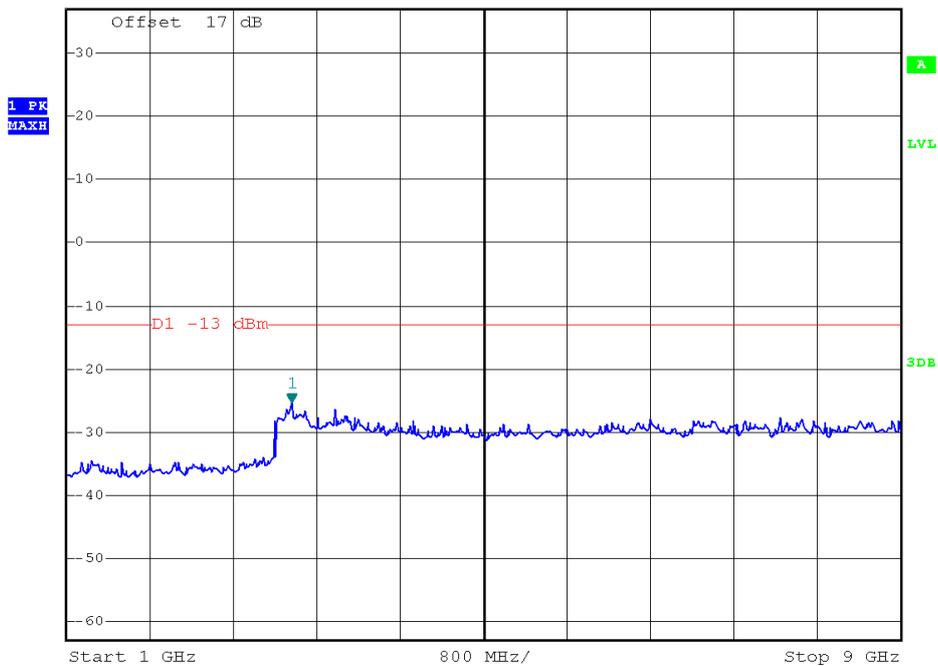
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -32.20 dBm
 *VBW 300 kHz 497.540000000 MHz
 SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -25.44 dBm
 *VBW 3 MHz 3.160000000 GHz
 SWT 160 ms



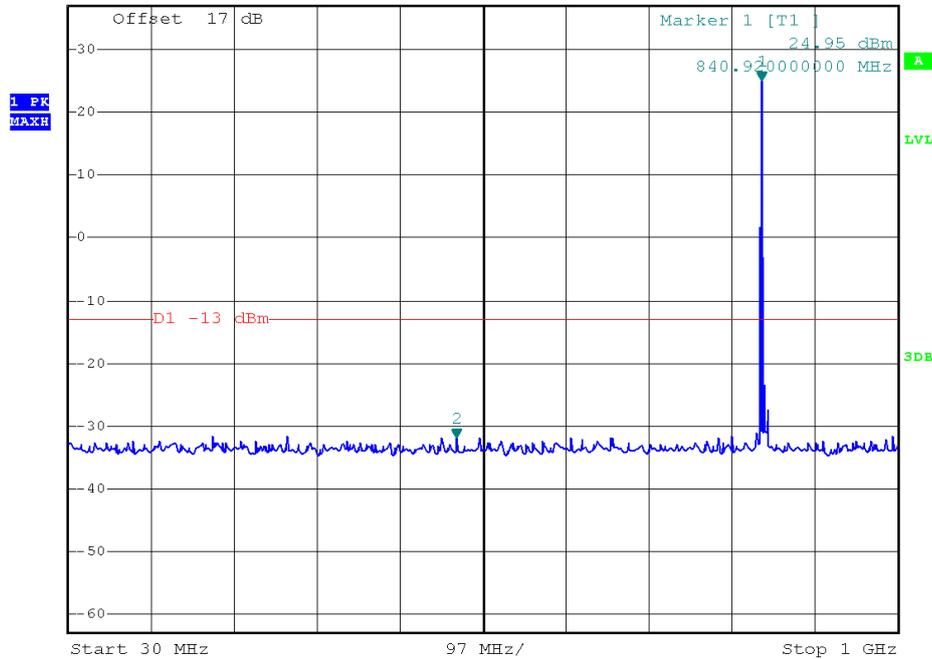
RB Size 1, RB Offset 0 1GHz to 9GHz



Band	LTE Band 5	Channel	High
Bandwidth	10MHz	Modulation	QPSK



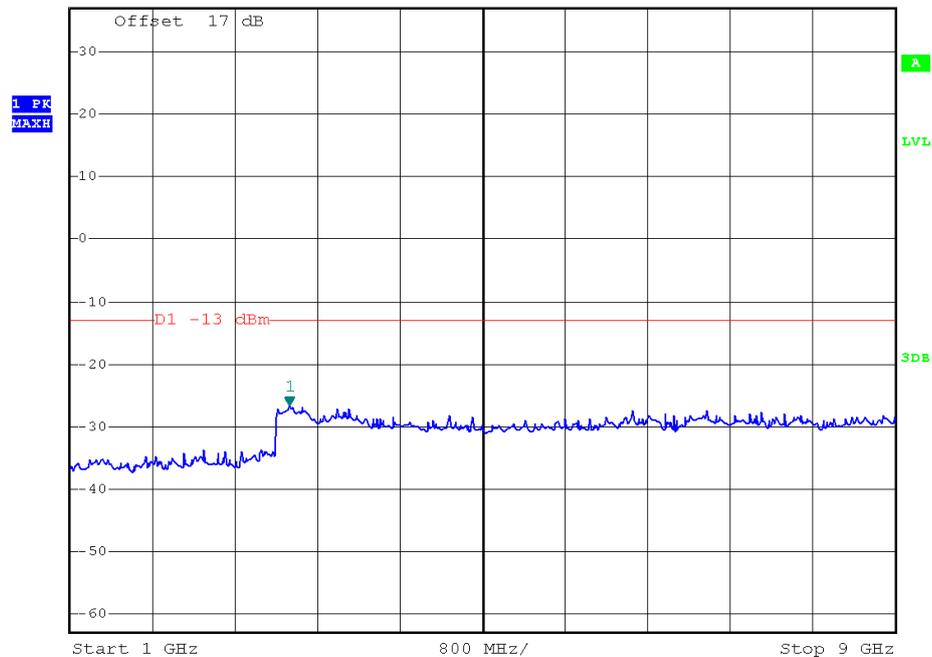
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1]
 -31.86 dBm
 *VBW 300 kHz
 SWT 100 ms 483.960000000 MHz



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1]
 -26.64 dBm
 *VBW 3 MHz
 SWT 160 ms 3.128000000 GHz



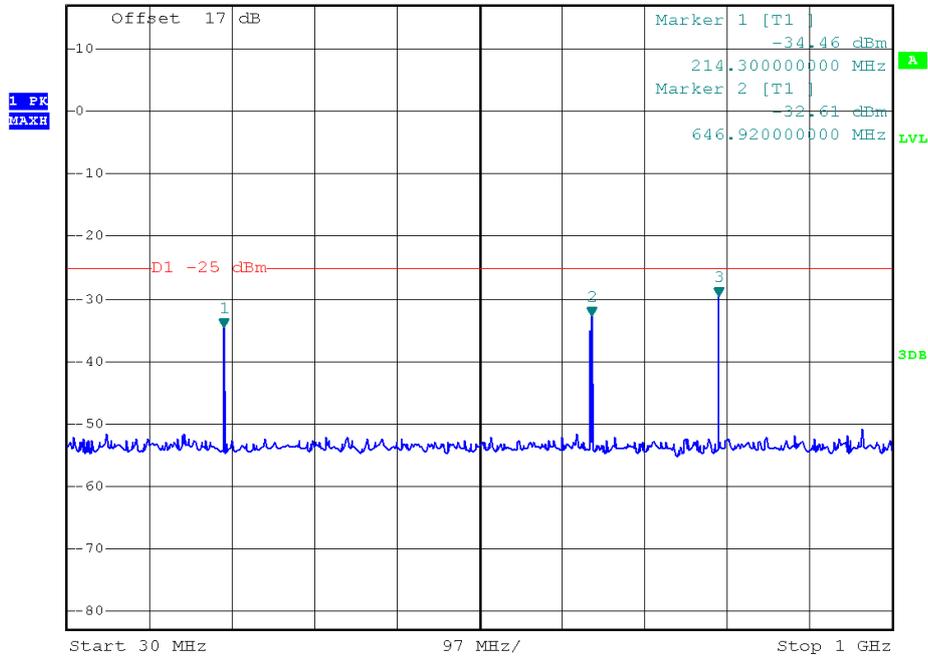
RB Size 1, RB Offset 0 1GHz to 9GHz



Band	LTE Band 7	Channel:	Middle
Bandwidth	5MHz	Modulation	QPSK



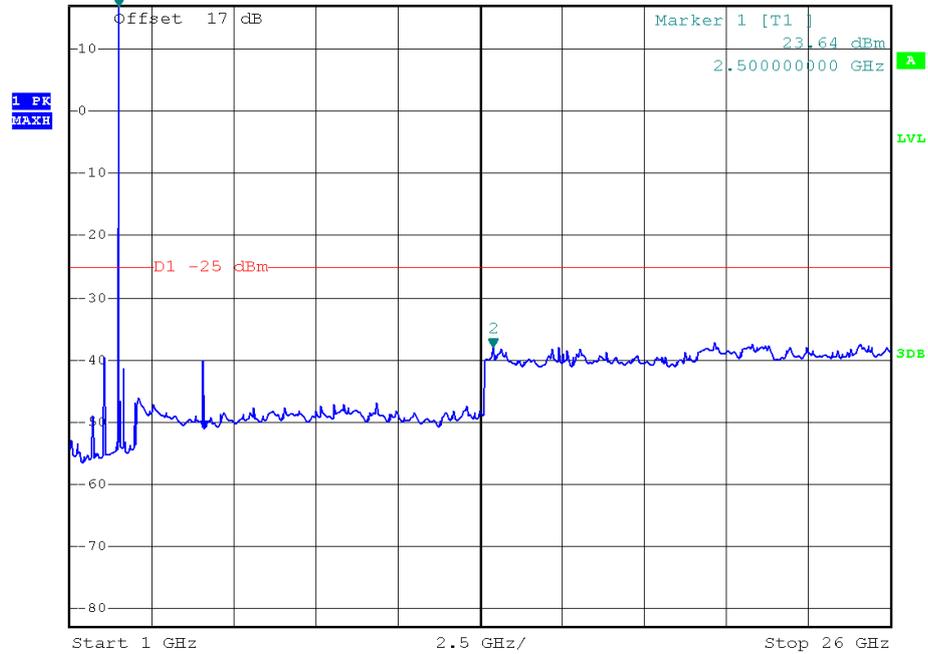
Ref 17 dBm *Att 10 dB *RBW 100 kHz Marker 3 [T1]
 -29.55 dBm
 796.300000000 MHz
 *VBW 300 kHz
 SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 117 dBm *Att 10 dB *RBW 1 MHz Marker 2 [T1]
 -37.95 dBm
 13.900000000 GHz
 *VBW 3 MHz
 SWT 500 ms



RB Size 1, RB Offset 0 1GHz to 26GHz

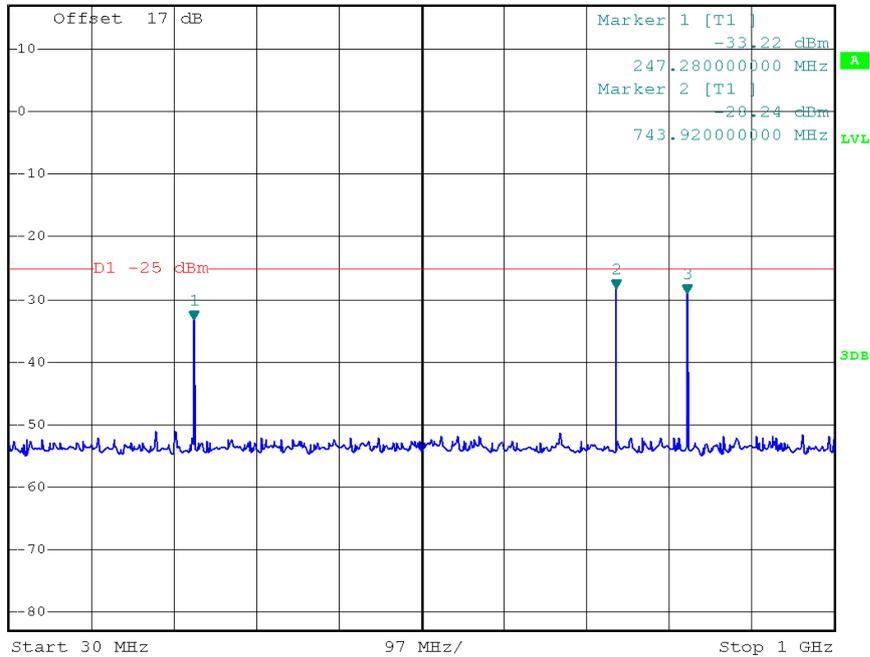


Band	LTE Band 7	Channel:	High
Bandwidth	5MHz	Modulation	QPSK



Ref 17 dBm *Att 10 dB *RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -29.03 dBm
 SWT 100 ms 827.340000000 MHz

1 PK MAXH

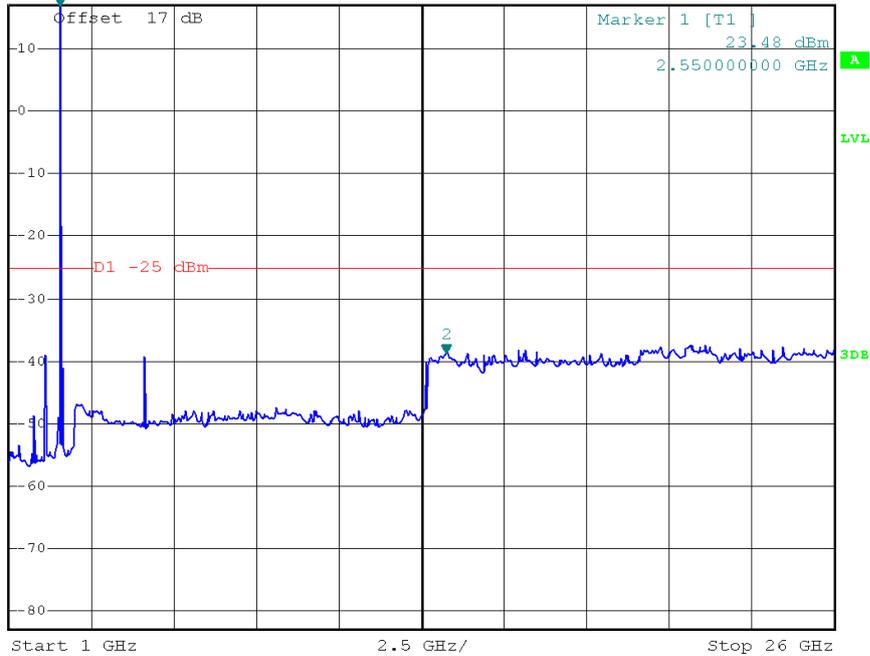


RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 117 dBm *Att 10 dB *RBW 1 MHz Marker 2 [T1]
 *VBW 3 MHz -38.85 dBm
 SWT 500 ms 14.250000000 GHz

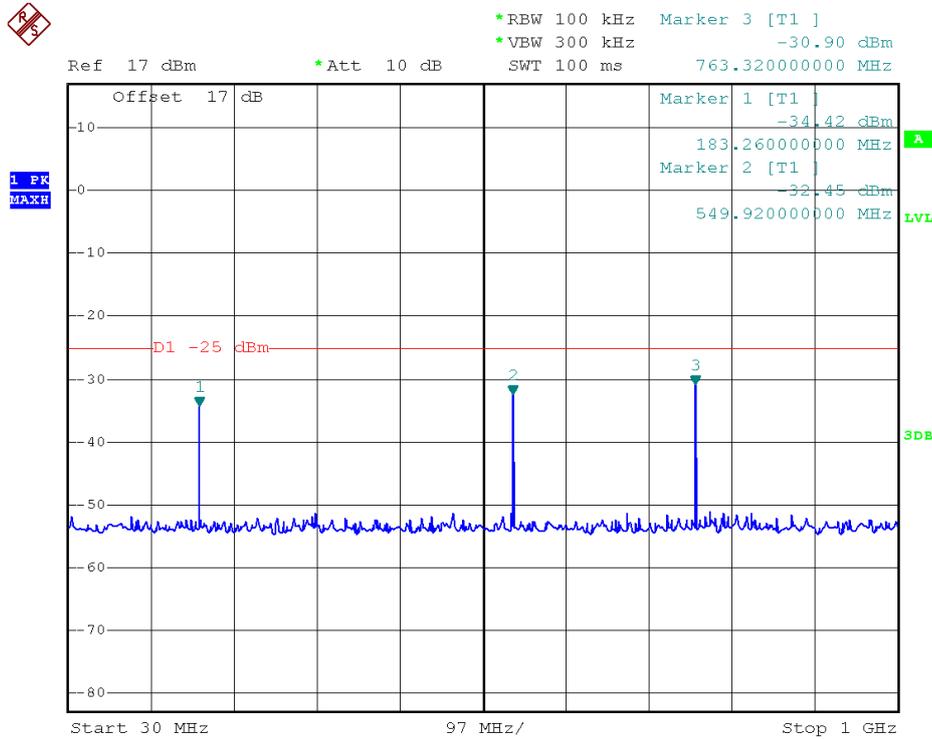
1 PK MAXH



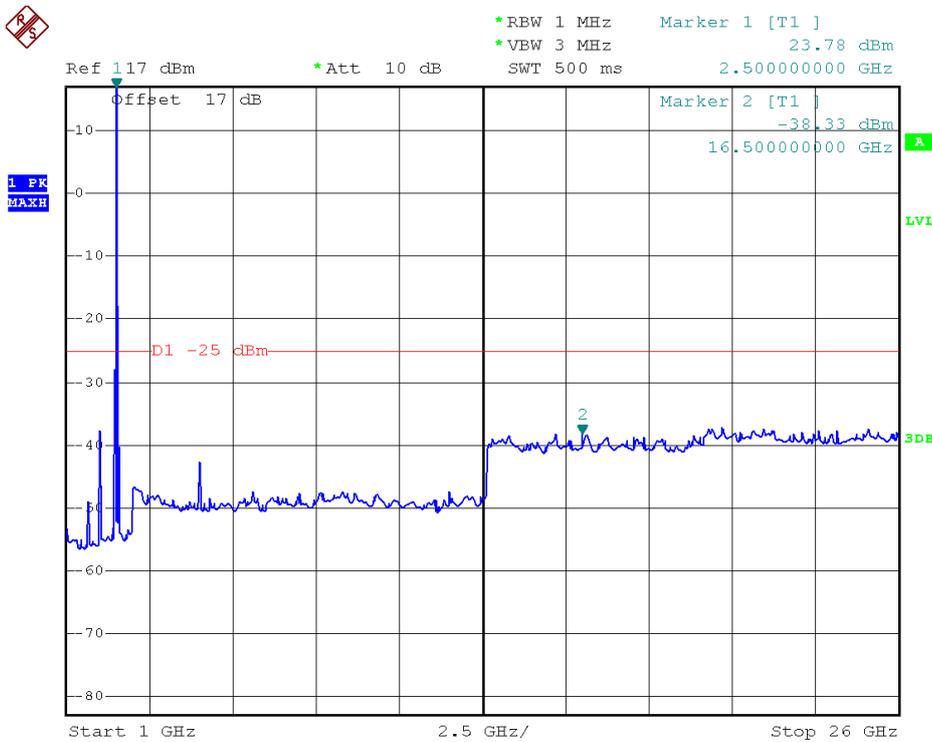
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 7	Channel:	Low
Bandwidth	10MHz	Modulation	QPSK



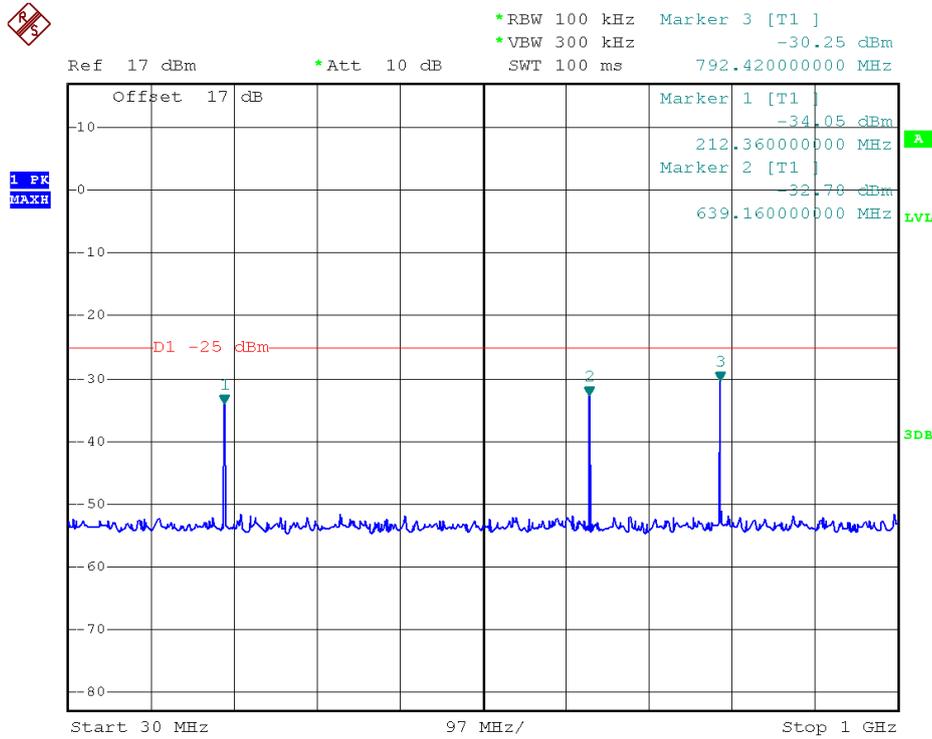
RB Size 1, RB Offset 0 30MHz to 1GHz



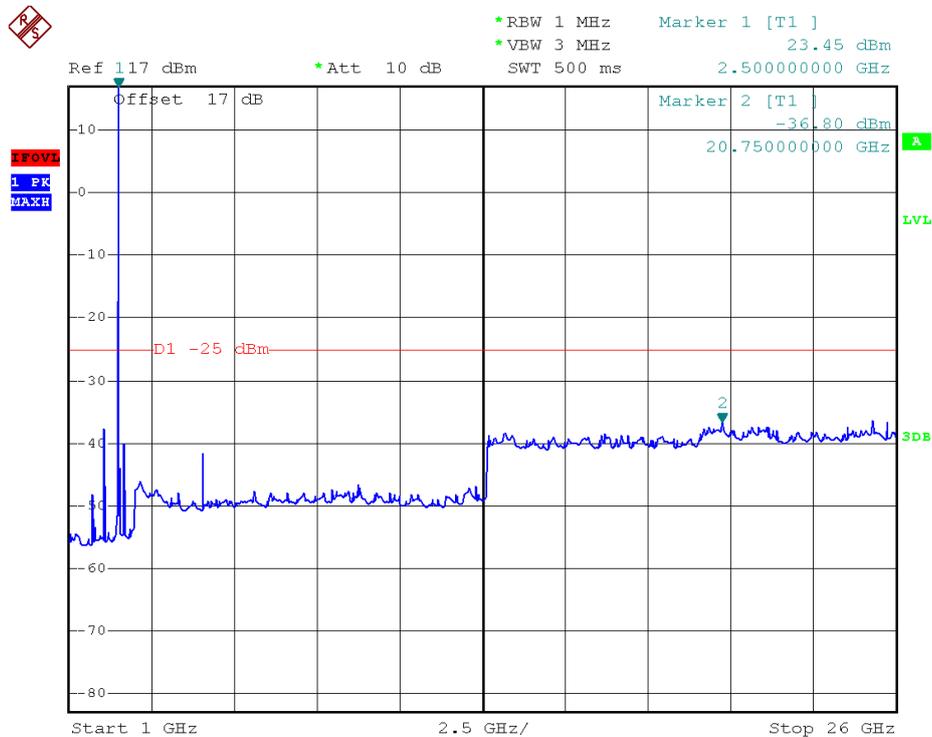
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 7	Channel	Middle
Bandwidth	10MHz	Modulation	QPSK



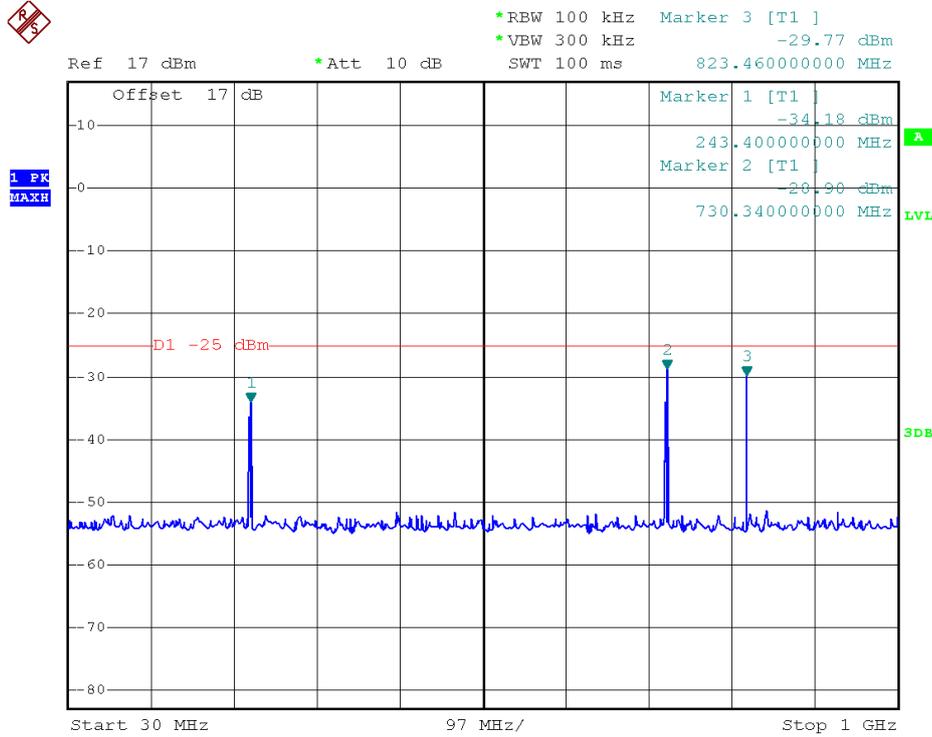
RB Size 1, RB Offset 0 30MHz to 1GHz



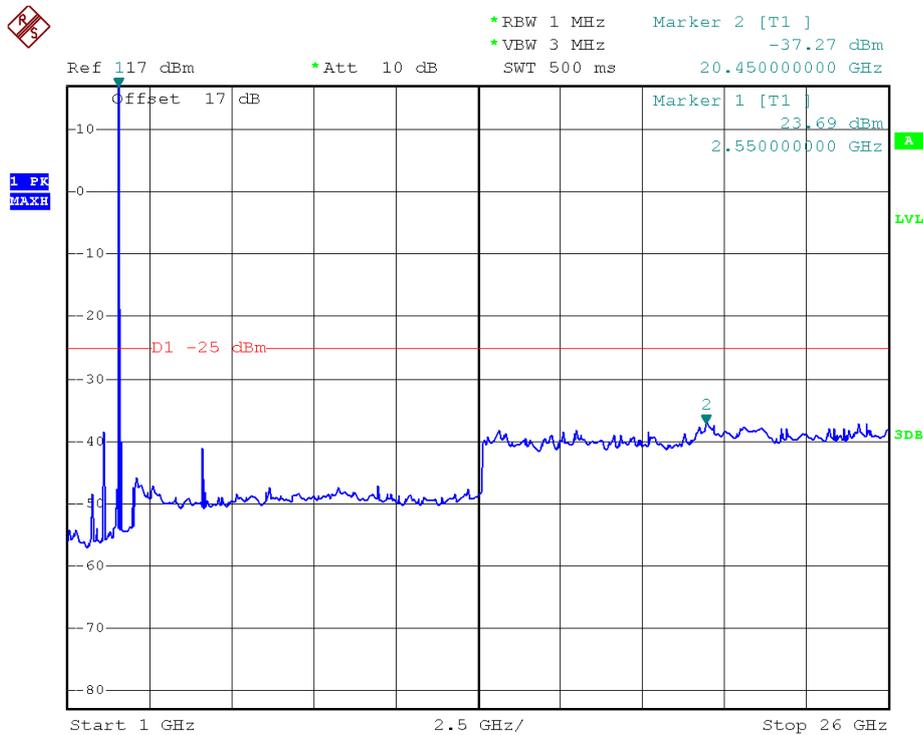
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 7	Channel	High
Bandwidth	10MHz	Modulation	QPSK



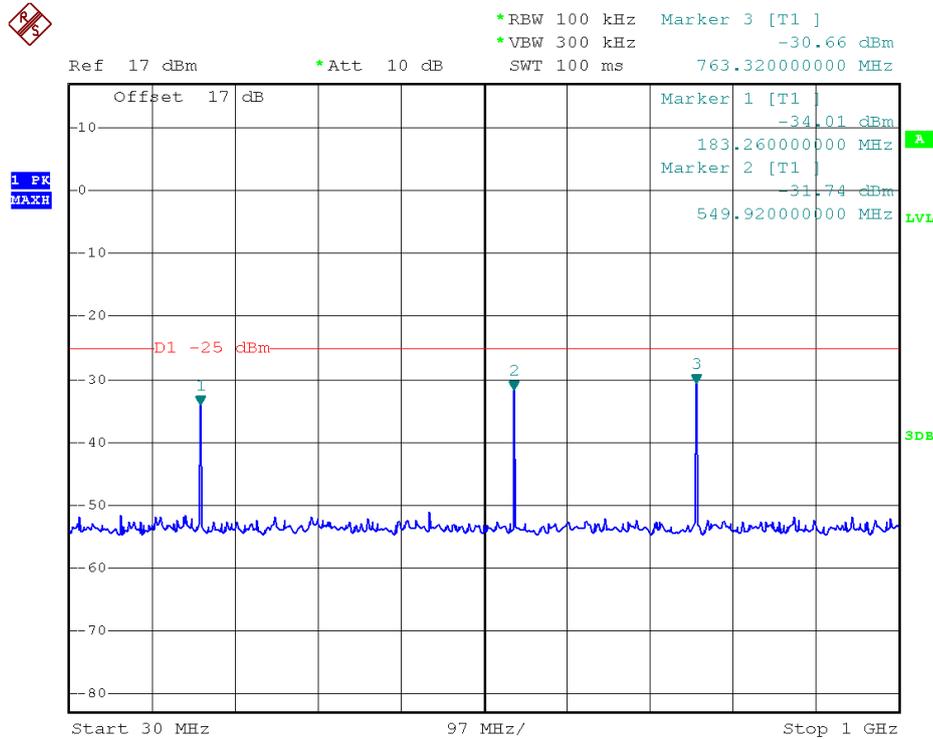
RB Size 1, RB Offset 0 30MHz to 1GHz



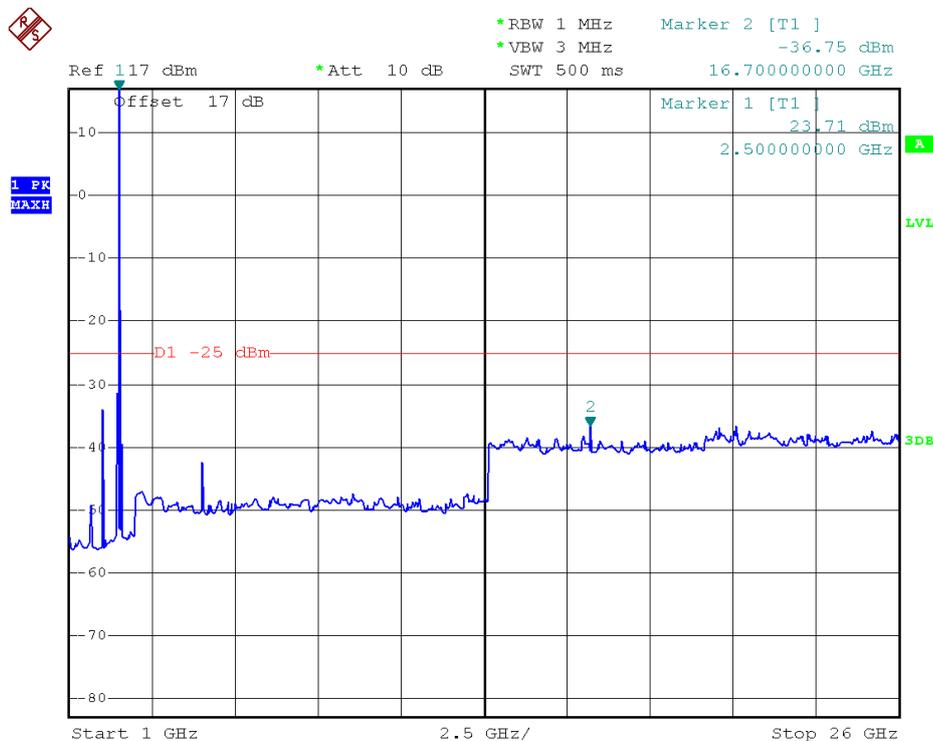
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 7	Channel	Low
Bandwidth	15MHz	Modulation	QPSK



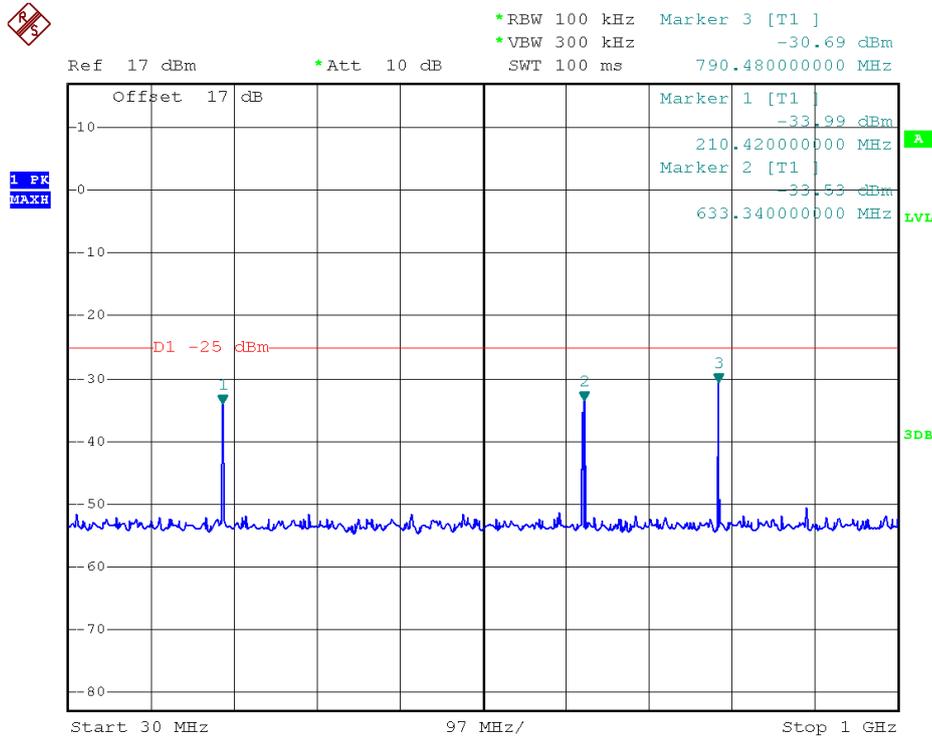
RB Size 1, RB Offset 0 30MHz to 1GHz



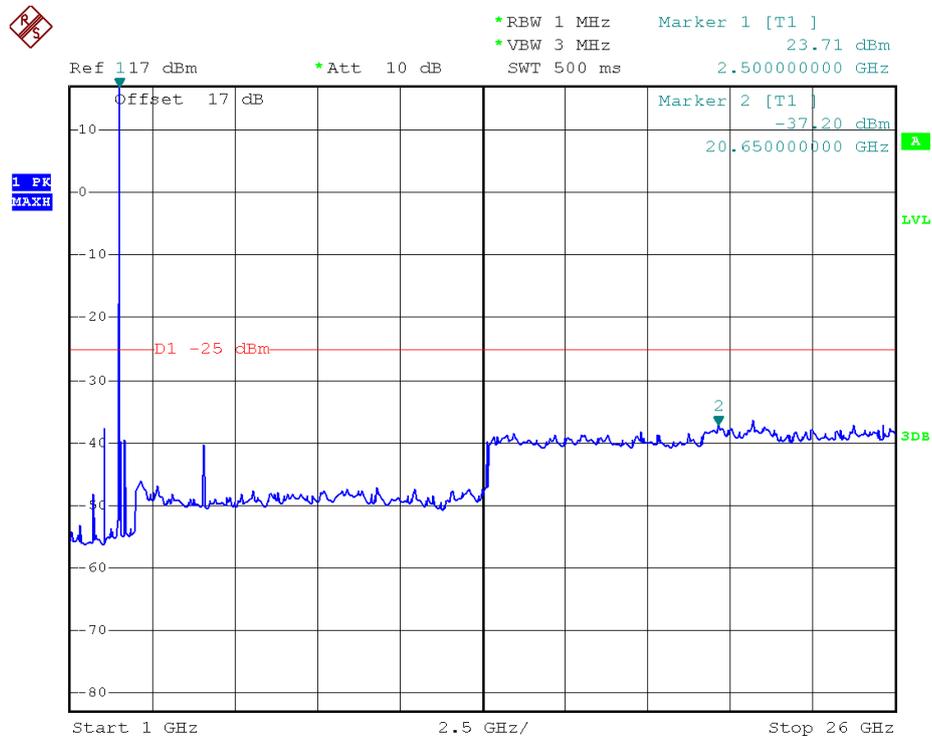
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 7	Channel:	Middle
Bandwidth	15MHz	Modulation	QPSK



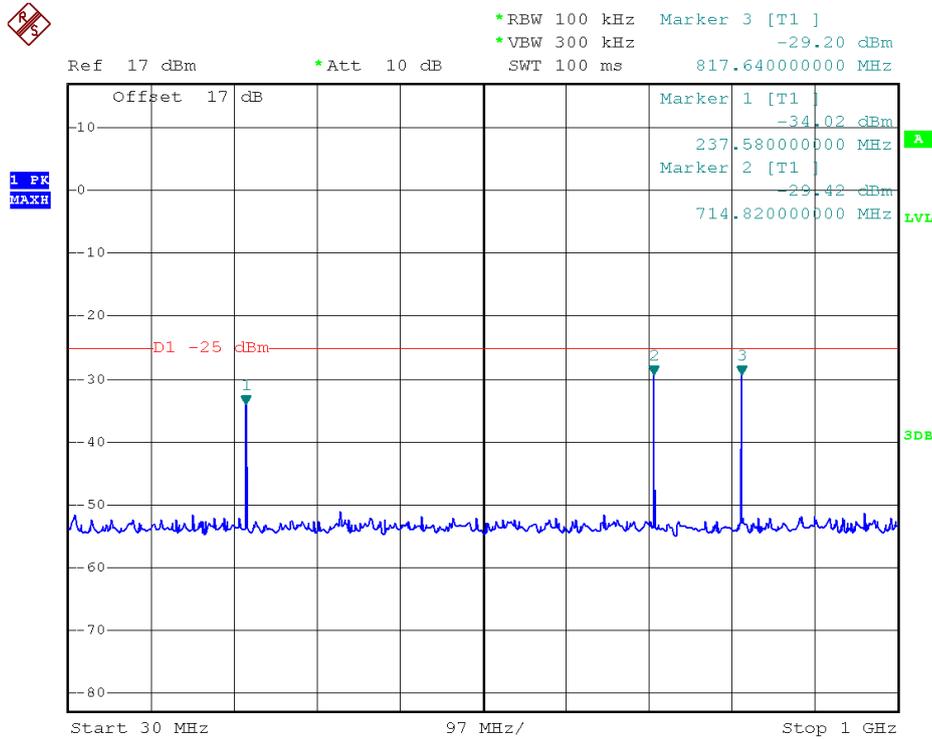
RB Size 1, RB Offset 0 30MHz to 1GHz



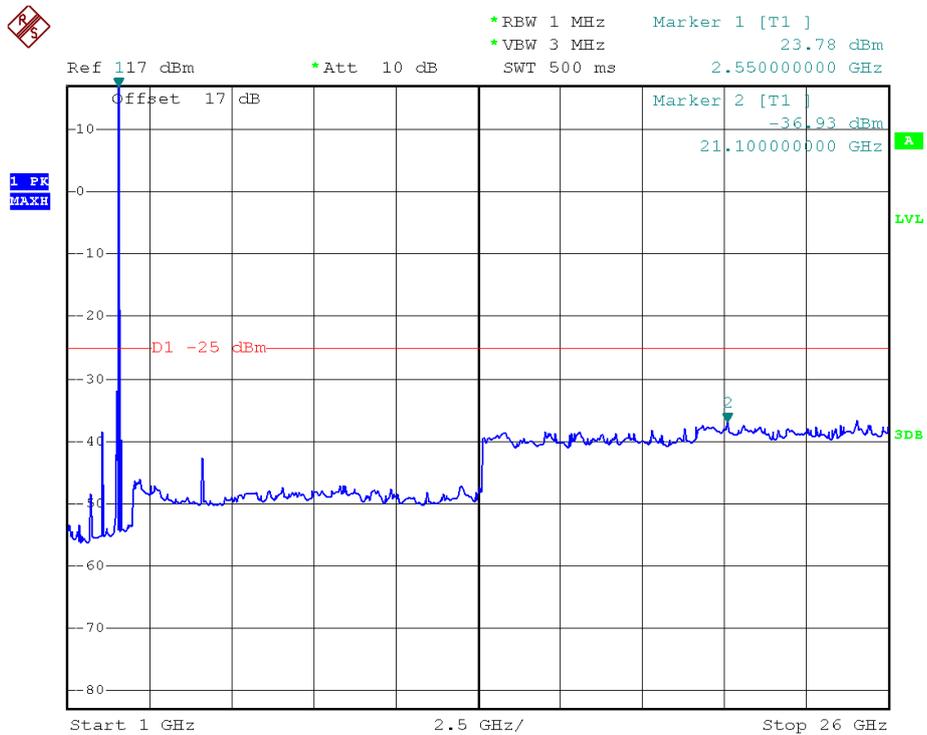
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 7	Channel:	High
Bandwidth	15MHz	Modulation	QPSK



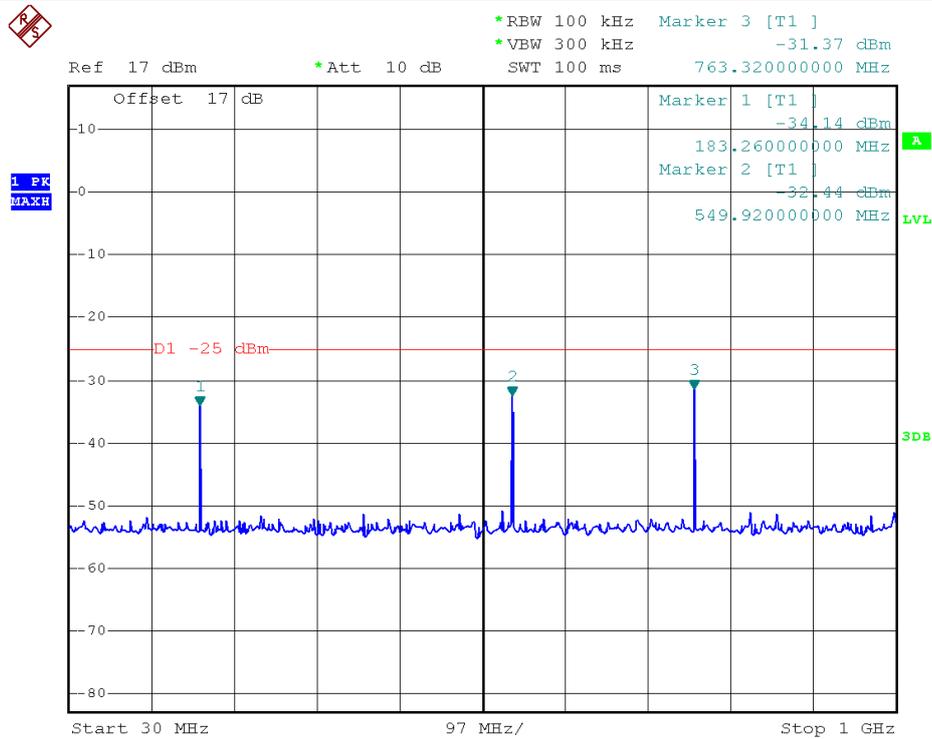
RB Size 1, RB Offset 0 30MHz to 1GHz



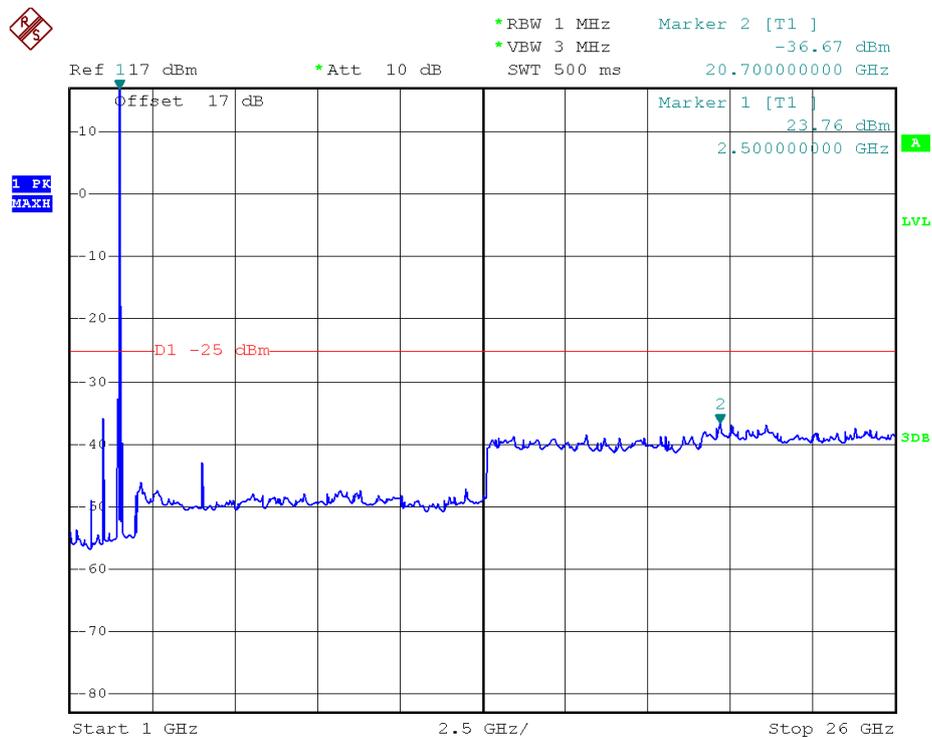
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 7	Channel:	Low
Bandwidth	20MHz	Modulation	QPSK



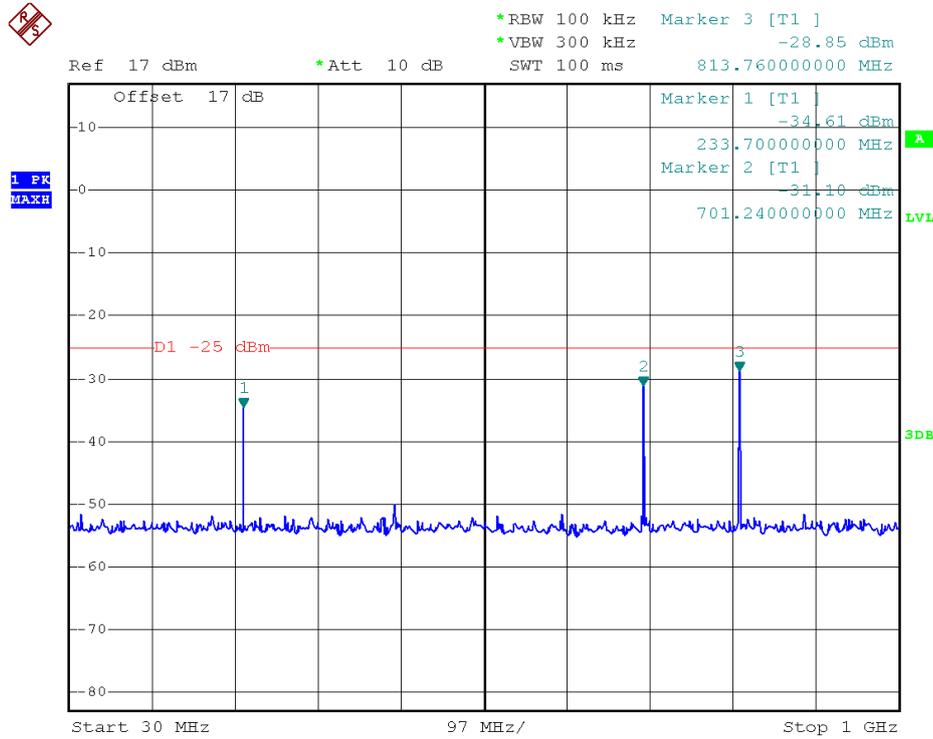
RB Size 1, RB Offset 0 30MHz to 1GHz



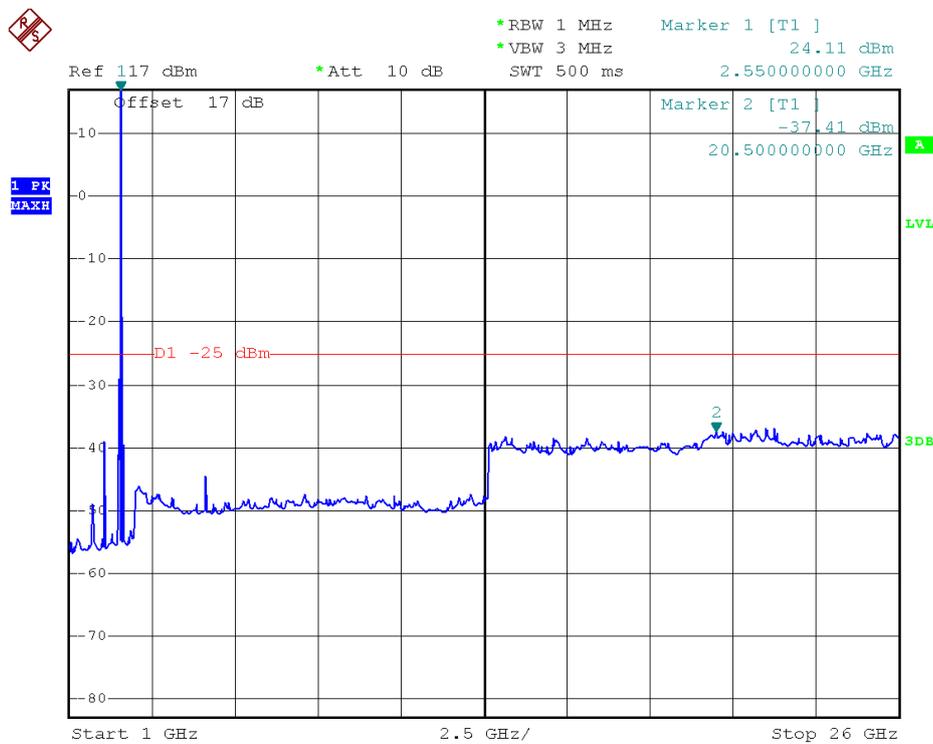
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 7	Channel	High
Bandwidth	20MHz	Modulation	QPSK



RB Size 1, RB Offset 0 30MHz to 1GHz



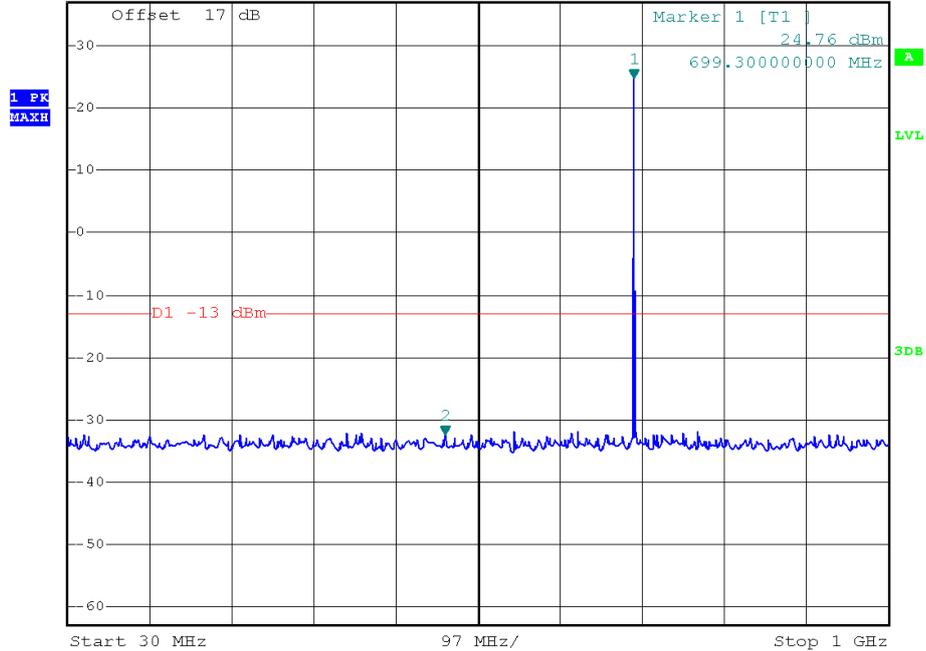
RB Size 1, RB Offset 0 1GHz to 26GHz



Band	LTE Band 12	Channel	Low
Bandwidth	1.4MHz	Modulation	QPSK



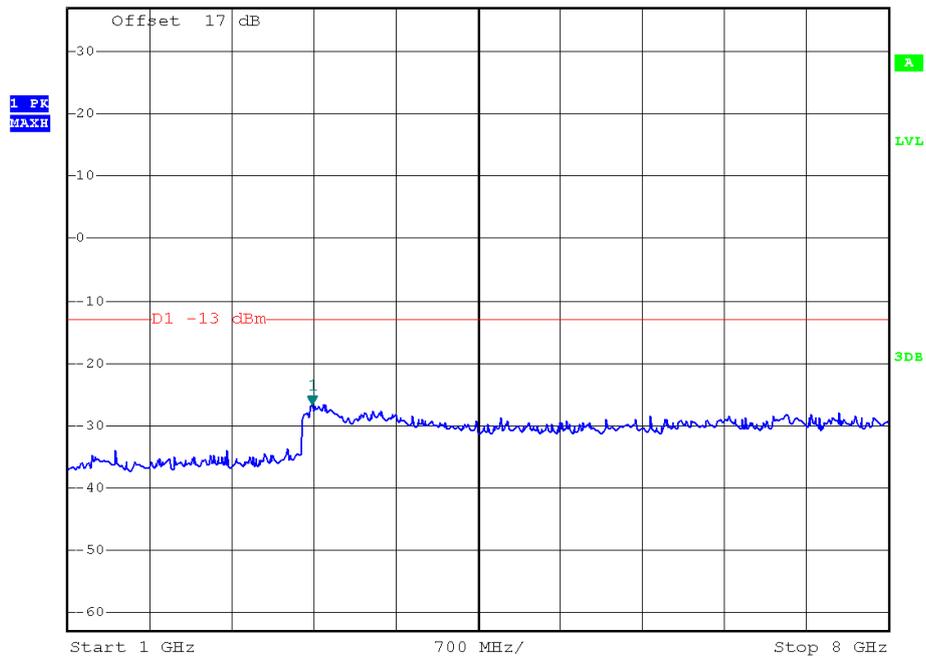
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -32.38 dBm
*VBW 300 kHz 476.200000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.59 dBm
*VBW 3 MHz 3.086000000 GHz
SWT 140 ms



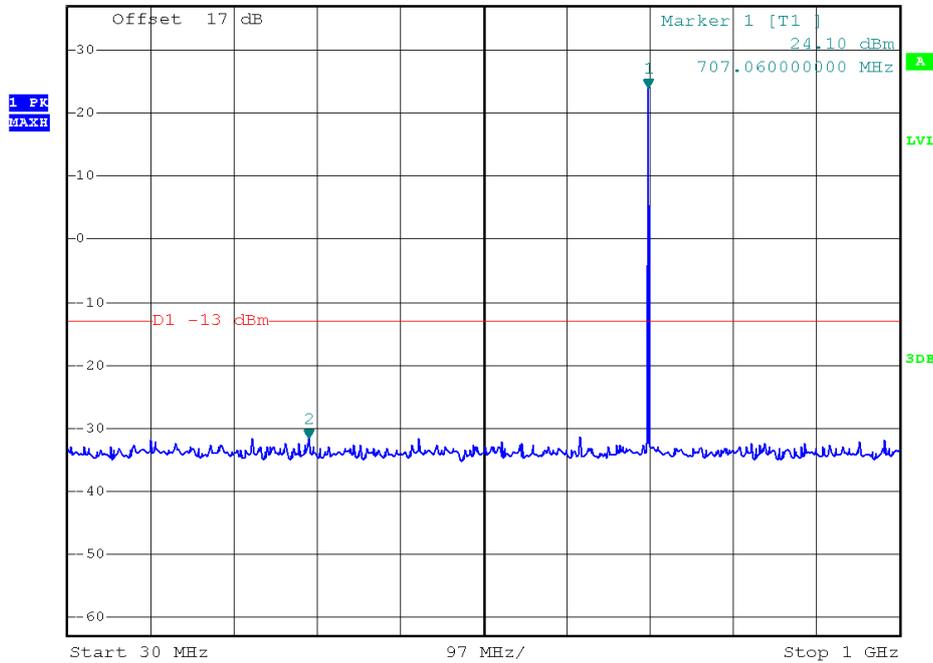
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	Middle
Bandwidth	1.4MHz	Modulation	QPSK



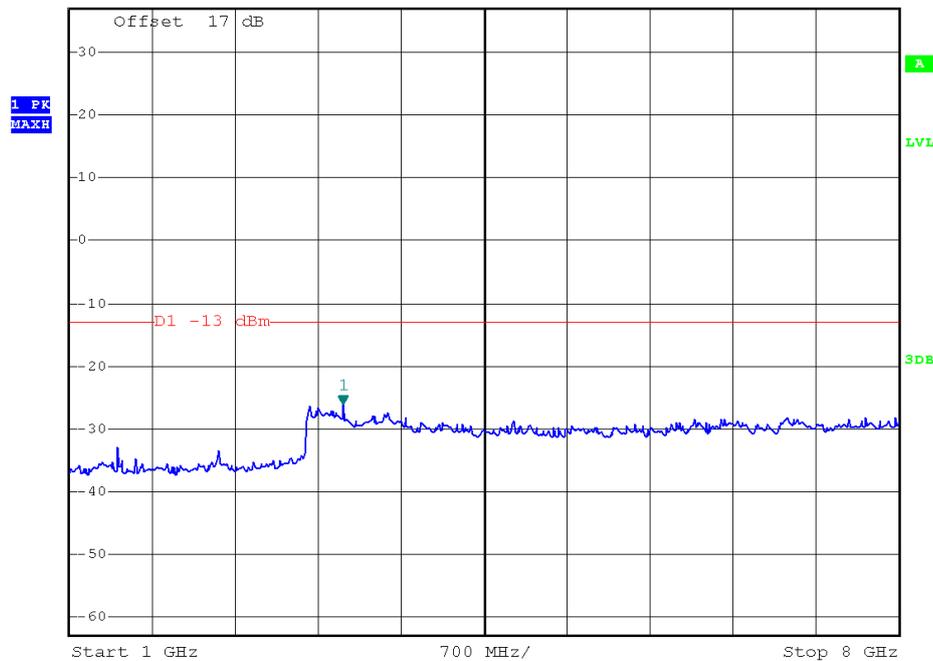
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -31.54 dBm
 *VBW 300 kHz 311.300000000 MHz
 SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.01 dBm
 *VBW 3 MHz 3.310000000 GHz
 SWT 140 ms



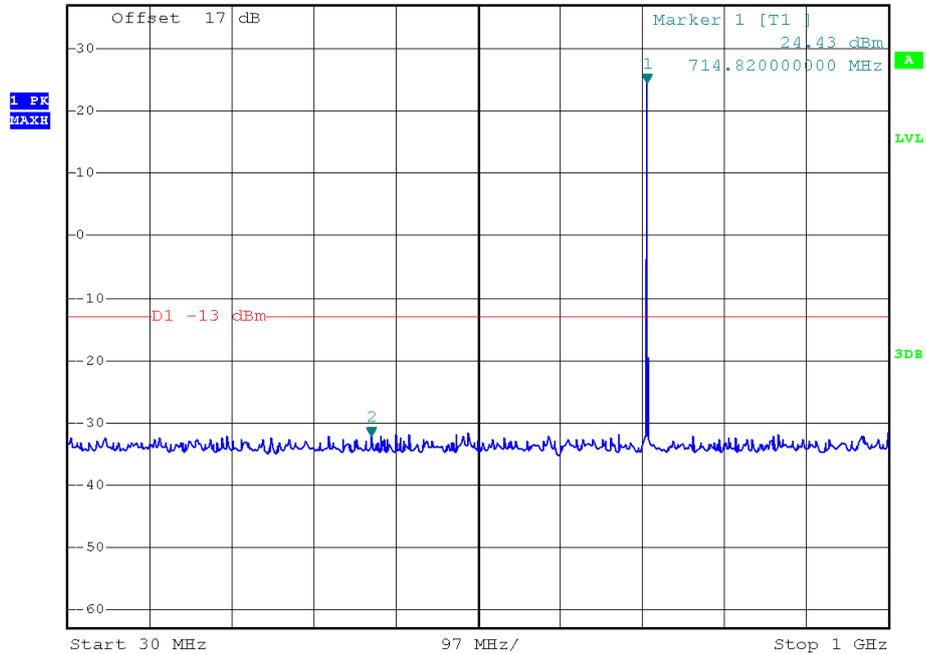
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	High
Bandwidth	1.4MHz	Modulation	QPSK



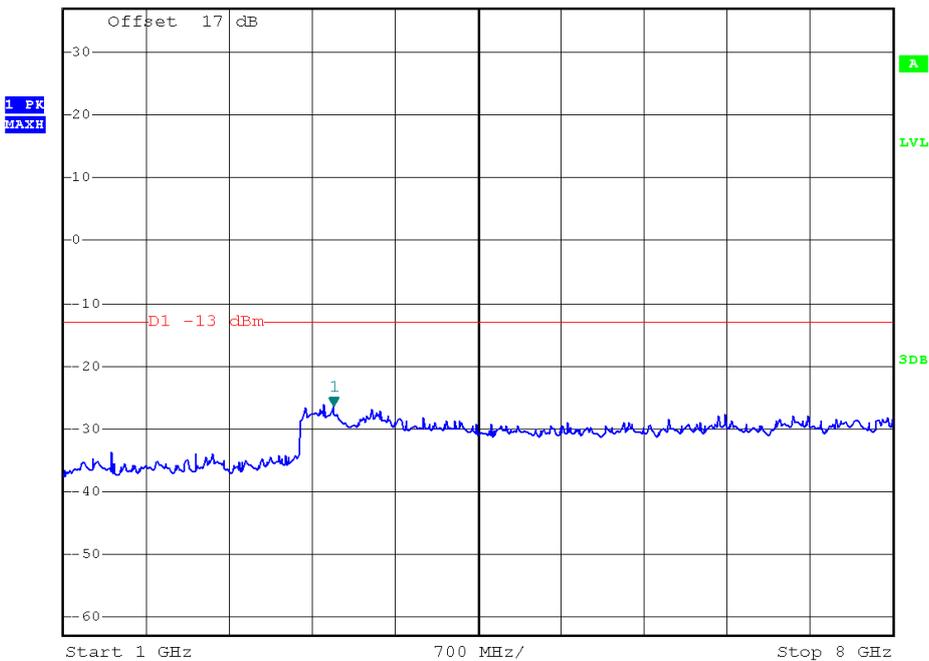
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -32.04 dBm
 *VBW 300 kHz 388.900000000 MHz
 SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.43 dBm
 *VBW 3 MHz 3.282000000 GHz
 SWT 140 ms



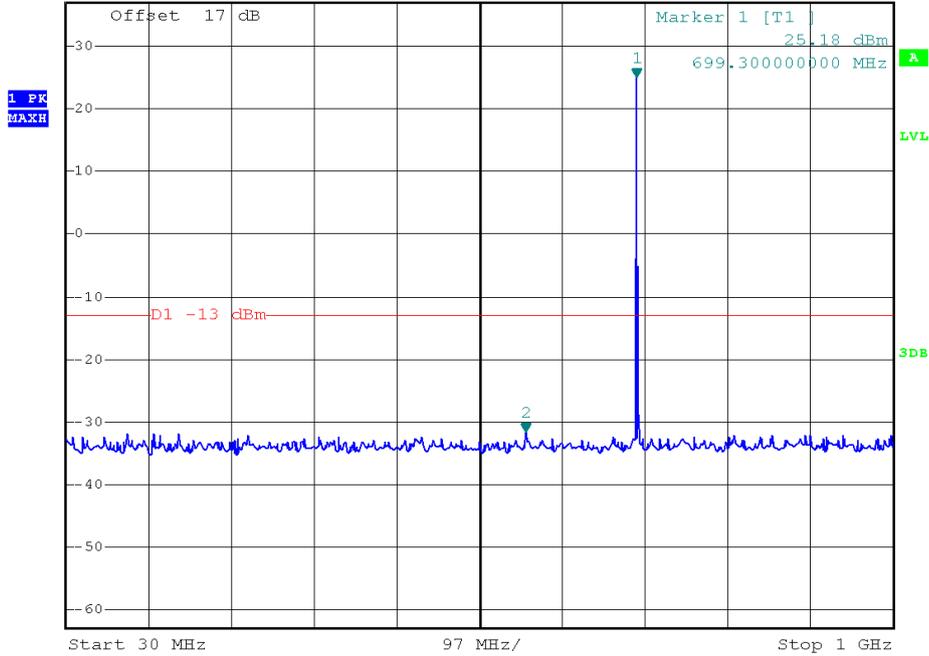
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	Low
Bandwidth	3MHz	Modulation	QPSK



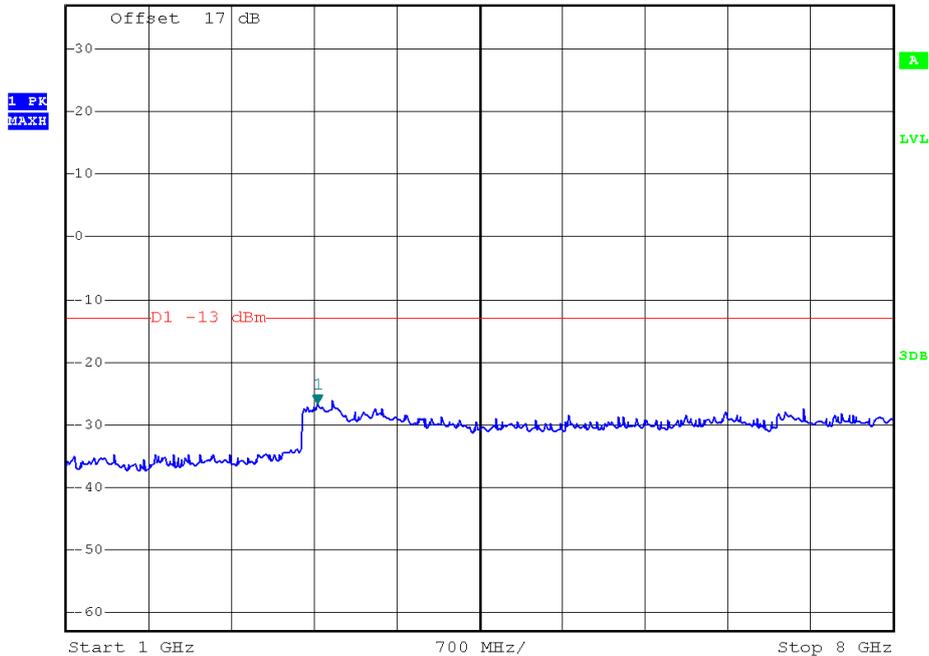
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1]
 *VBW 300 kHz -31.54 dBm
 SWT 100 ms 569.320000000 MHz



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -26.69 dBm
 SWT 140 ms 3.128000000 GHz



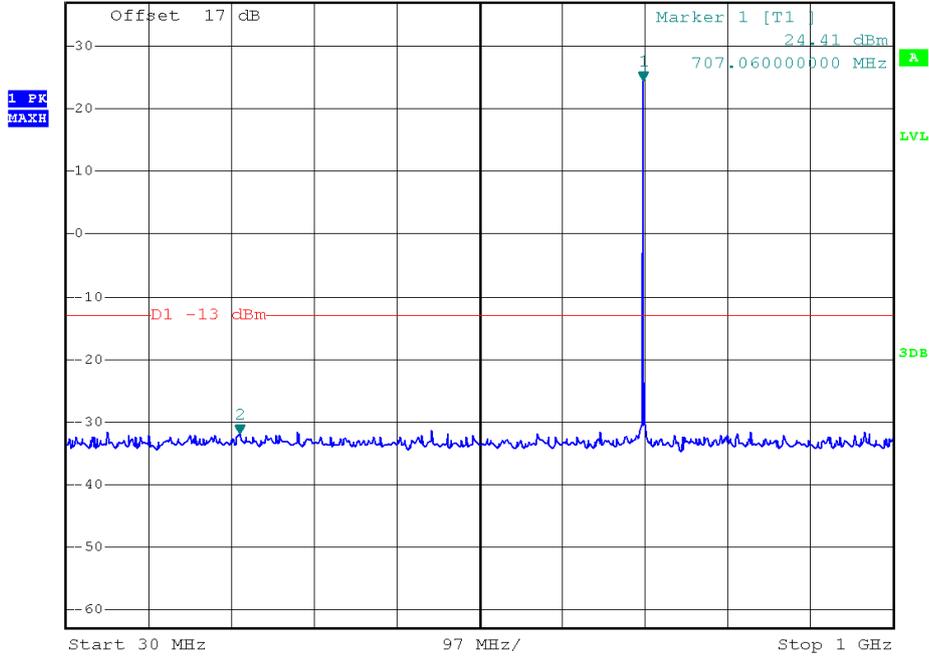
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	Middle
Bandwidth	3MHz	Modulation	QPSK



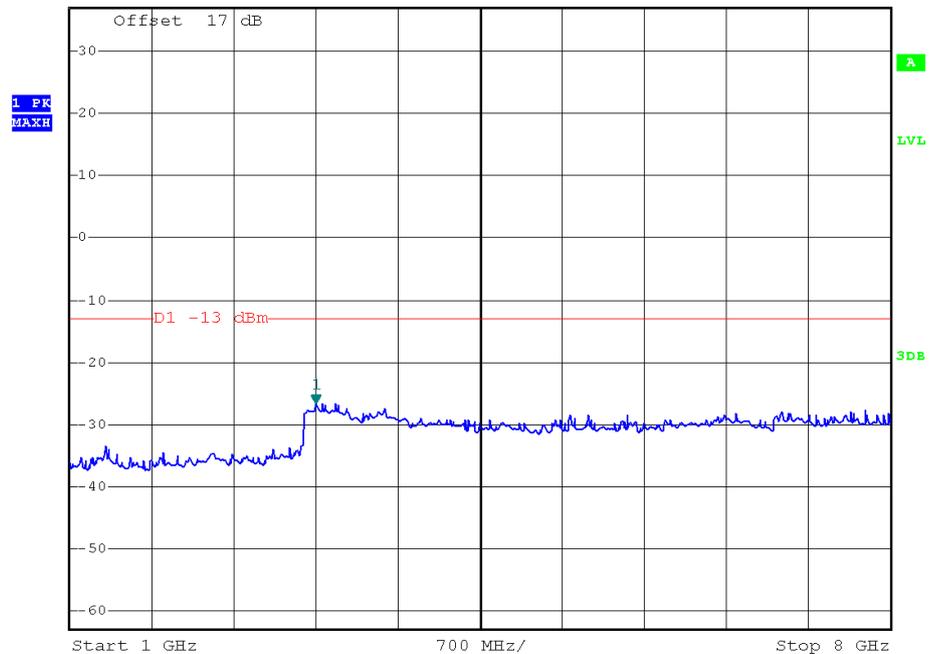
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -31.98 dBm
*VBW 300 kHz 233.700000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.54 dBm
*VBW 3 MHz 3.100000000 GHz
SWT 140 ms



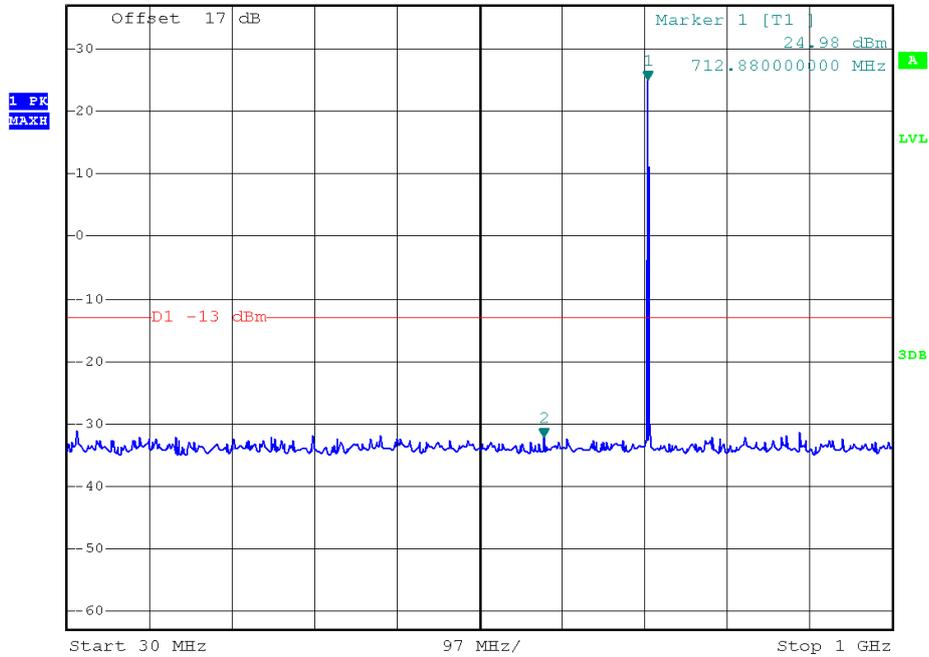
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	High
Bandwidth	3MHz	Modulation	QPSK



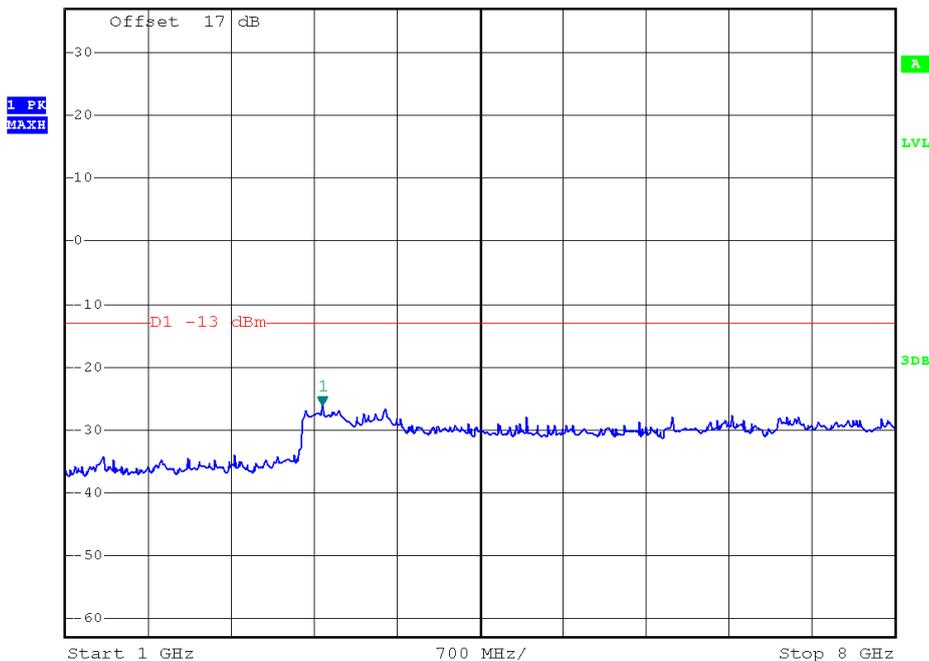
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -32.17 dBm
*VBW 300 kHz 590.660000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.21 dBm
*VBW 3 MHz 3.170000000 GHz
SWT 140 ms



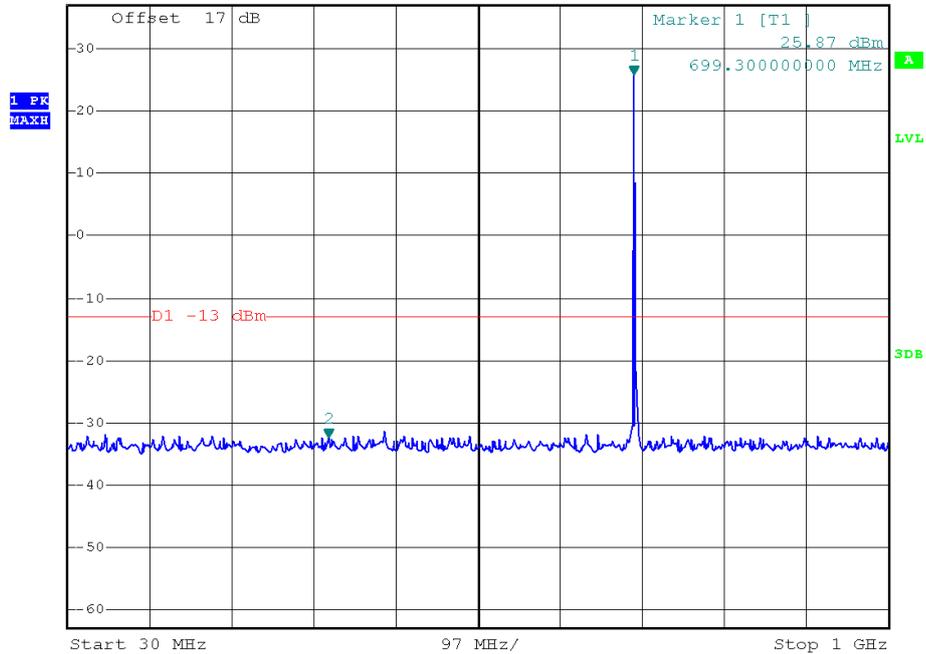
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	Low
Bandwidth	5MHz	Modulation	QPSK



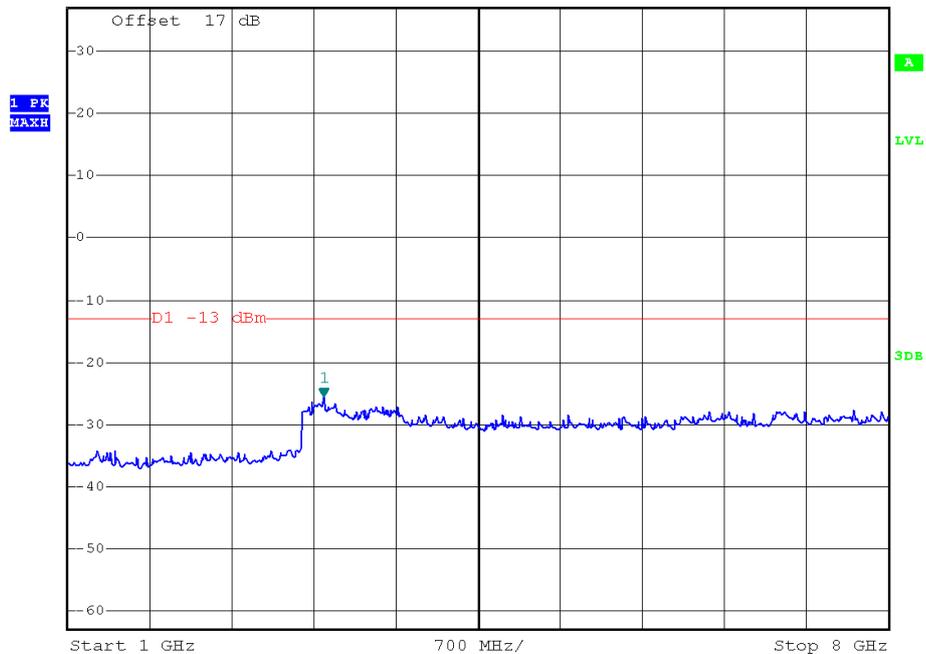
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -32.48 dBm
*VBW 300 kHz 338.460000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -25.48 dBm
*VBW 3 MHz 3.184000000 GHz
SWT 140 ms



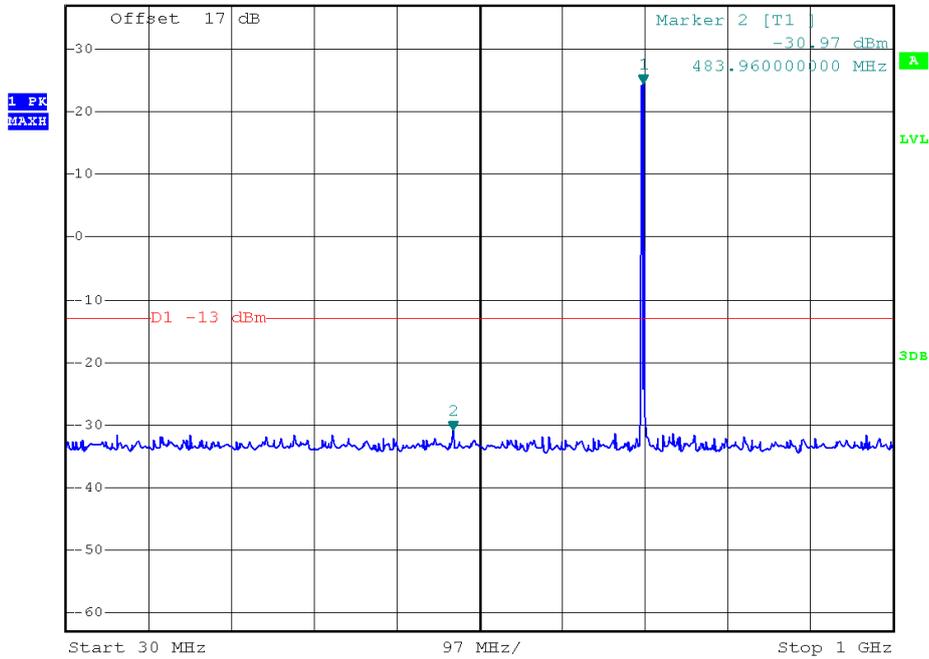
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	Middle
Bandwidth	5MHz	Modulation	QPSK



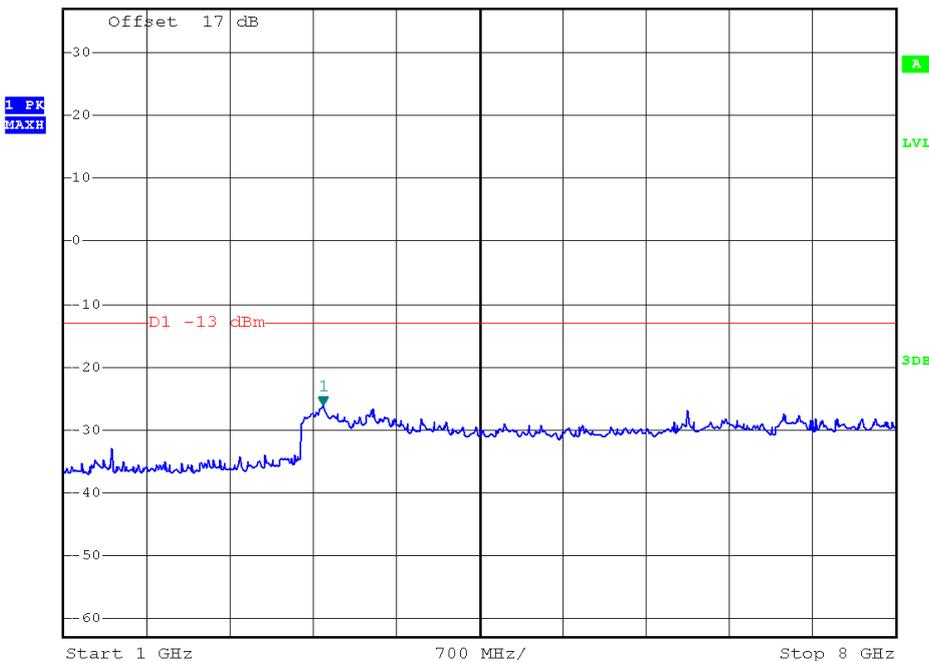
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] 24.63 dBm
 *VBW 300 kHz 483.960000000 MHz
 SWT 100 ms 707.060000000 MHz



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.08 dBm
 *VBW 3 MHz 3.184000000 GHz
 SWT 140 ms



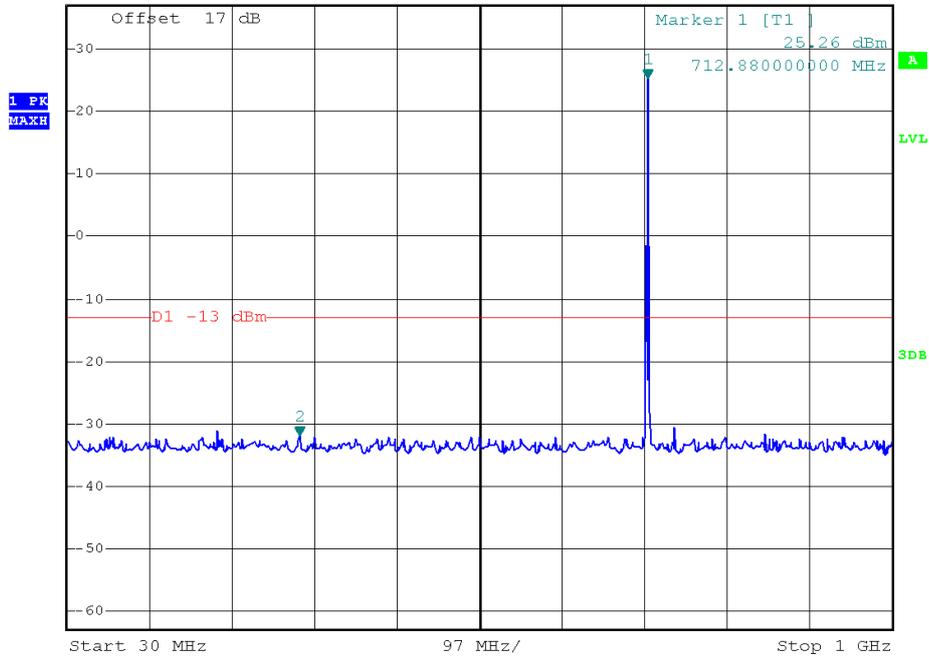
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	High
Bandwidth	5MHz	Modulation	QPSK



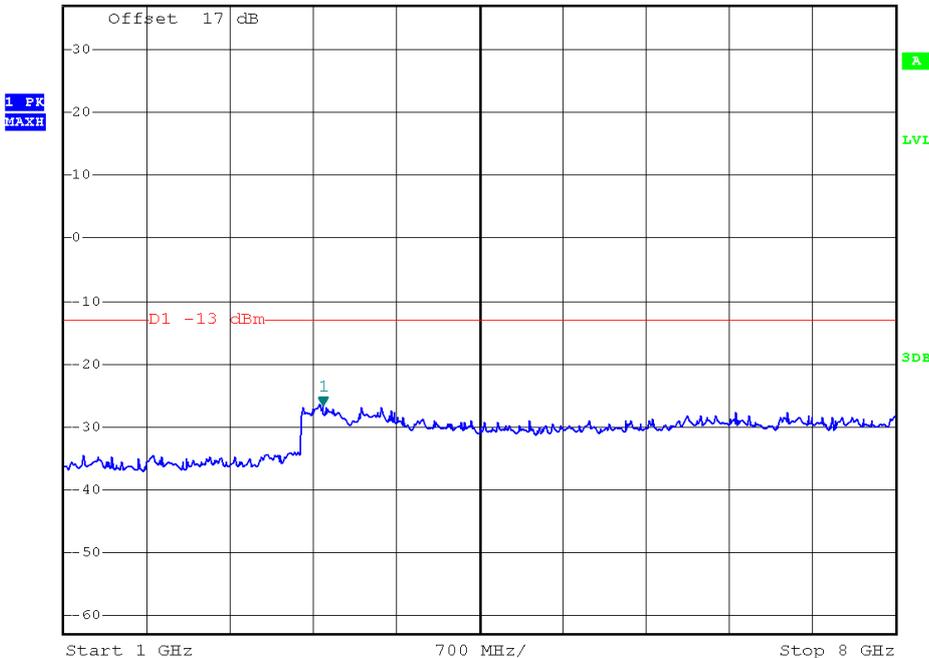
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -31.97 dBm
*VBW 300 kHz 303.540000000 MHz
SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



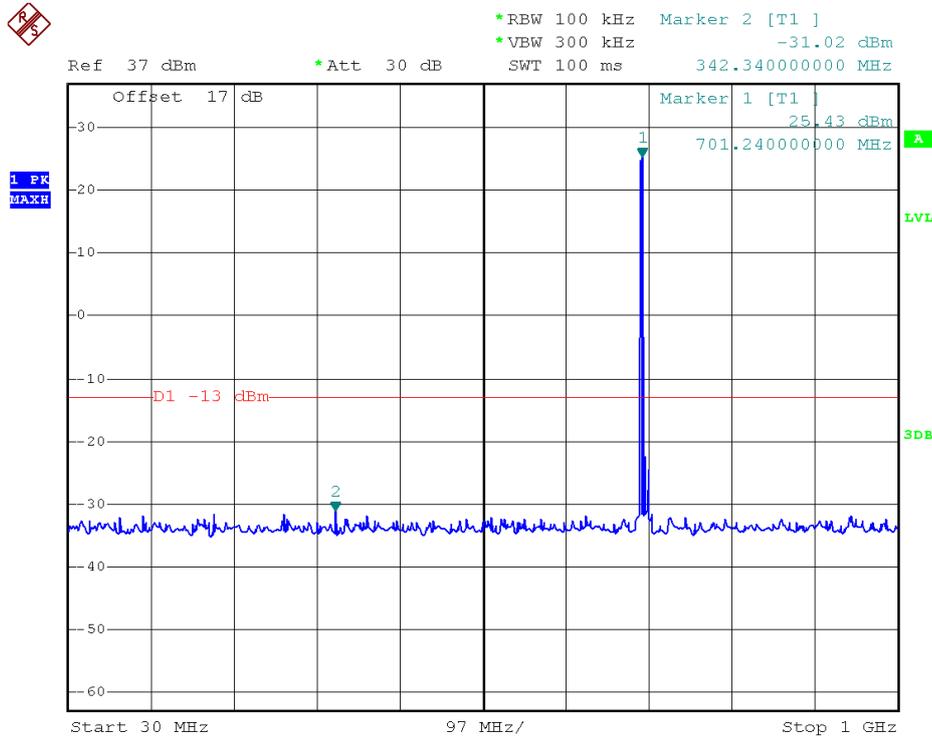
Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -26.57 dBm
*VBW 3 MHz 3.184000000 GHz
SWT 140 ms



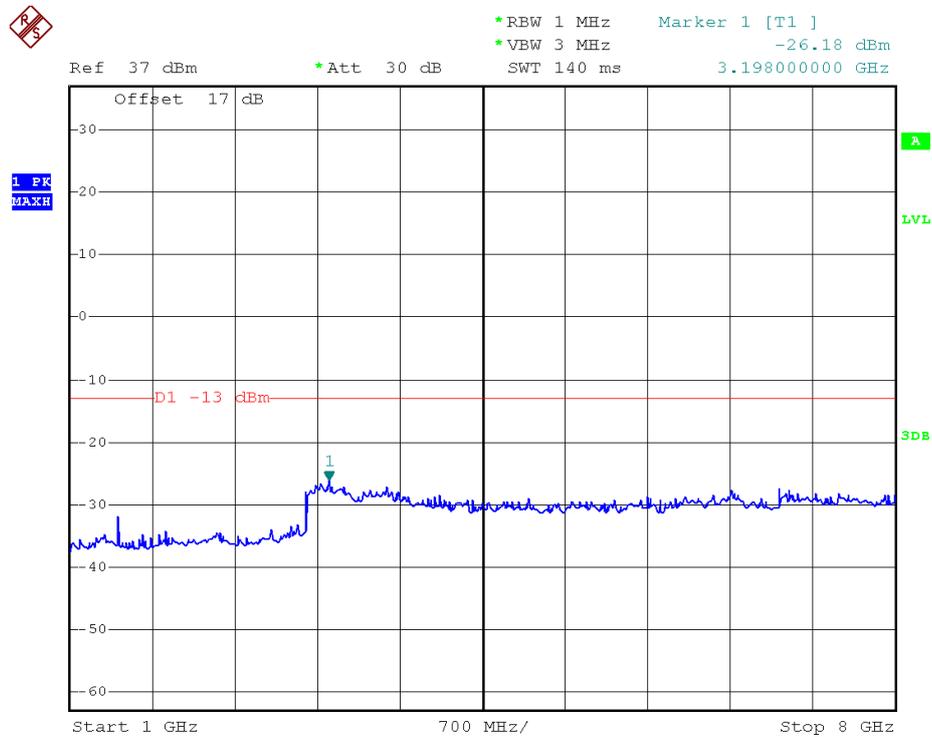
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	Low
Bandwidth	10MHz	Modulation	QPSK



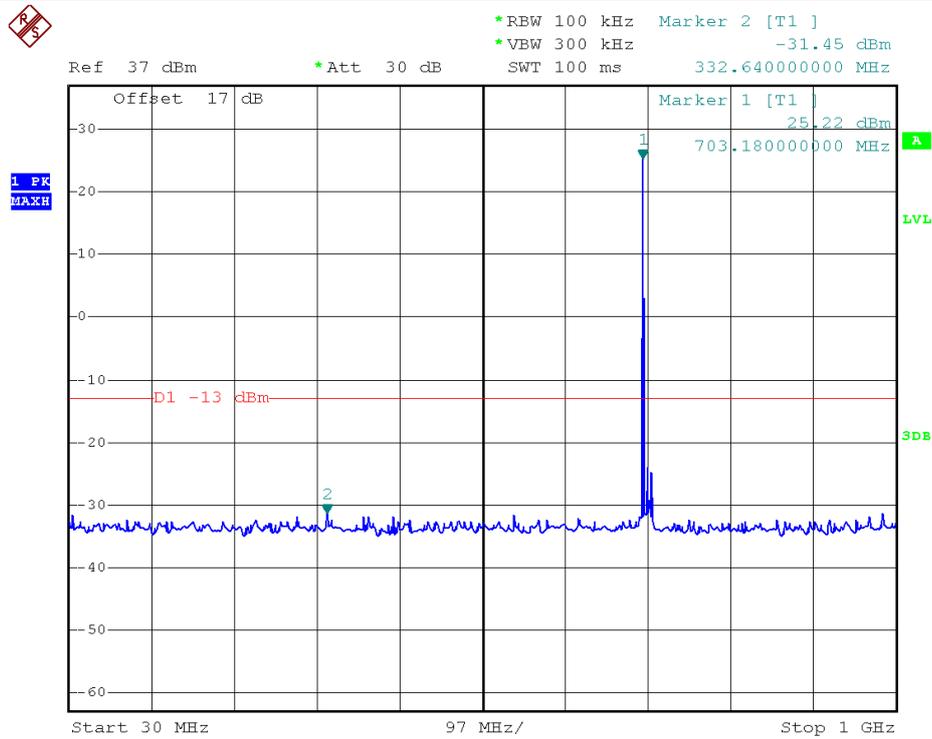
RB Size 1, RB Offset 0 30MHz to 1GHz



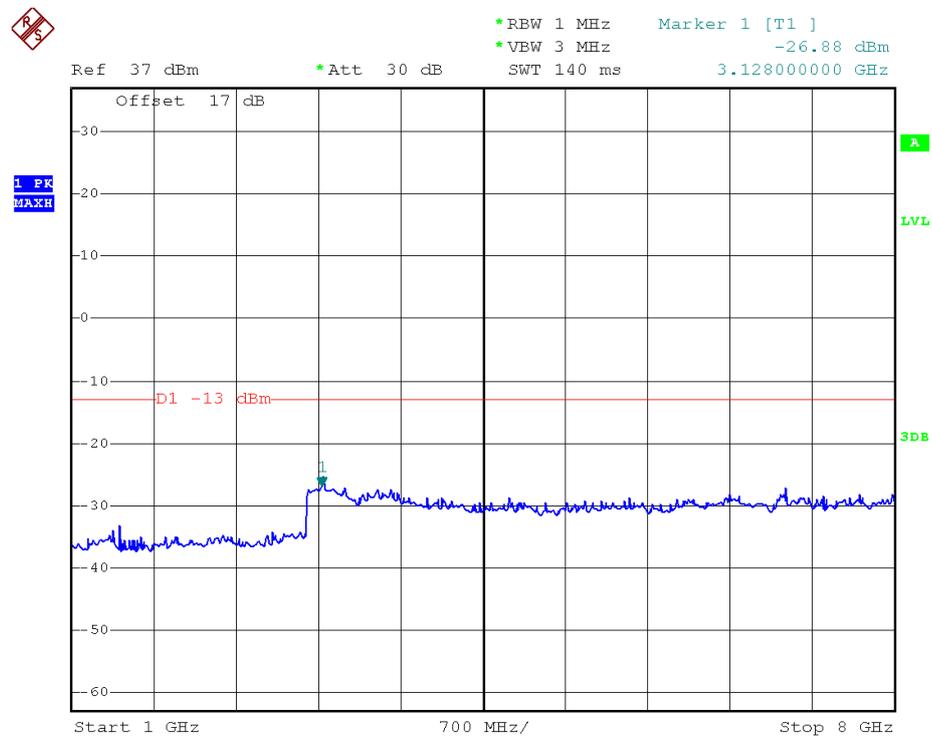
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	Middle
Bandwidth	10MHz	Modulation	QPSK



RB Size 1, RB Offset 0 30MHz to 1GHz



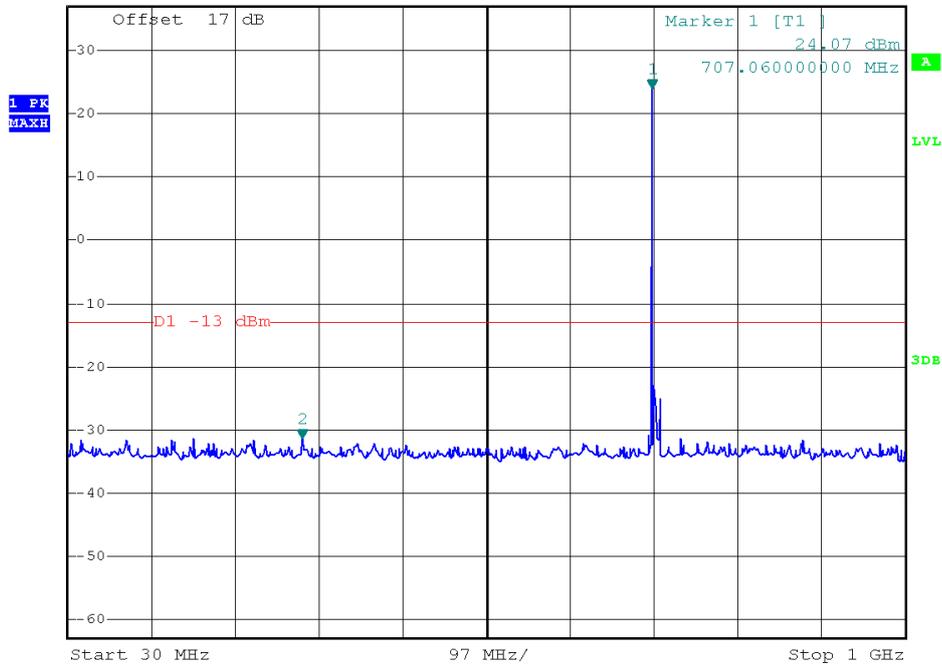
RB Size 1, RB Offset 0 1GHz to 8GHz



Band	LTE Band 12	Channel	High
Bandwidth	10MHz	Modulation	QPSK



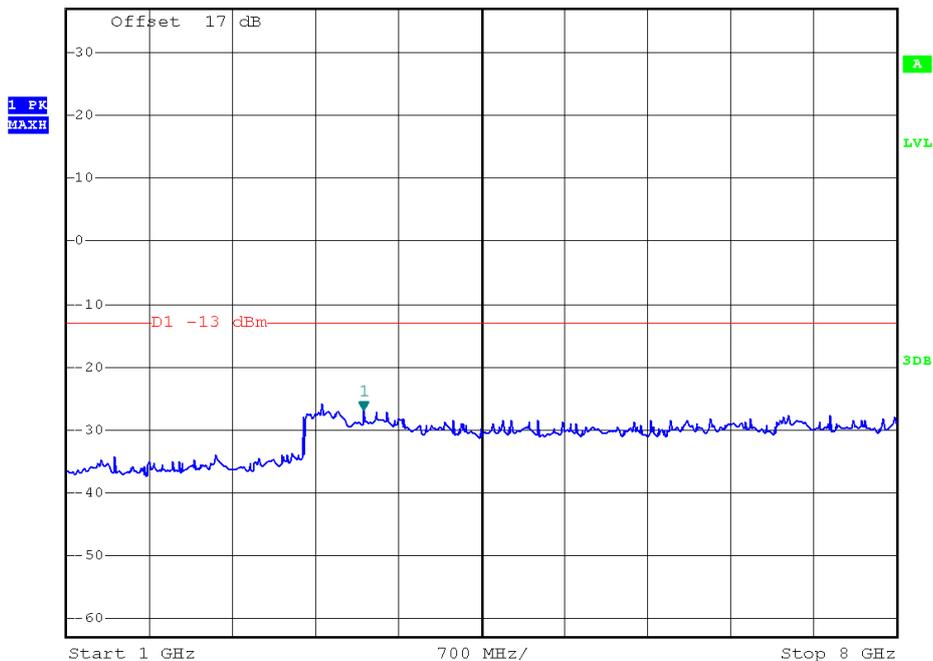
Ref 37 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -31.32 dBm
 *VBW 300 kHz 301.600000000 MHz
 SWT 100 ms



RB Size 1, RB Offset 0 30MHz to 1GHz



Ref 37 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -27.00 dBm
 *VBW 3 MHz 3.506000000 GHz
 SWT 140 ms



RB Size 1, RB Offset 0 1GHz to 8GHz

2.6 Conducted Band Edge

2.6.1 Description of Conducted Band Edge Measurement

24.238(a) for Band 2

For operations in the 1850 -1910 MHz band, the FCC limit is $43 + 10\log_{10}(P \text{ [Watts]})$ dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(h) for Band 4

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P \text{ [Watts]})$ dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

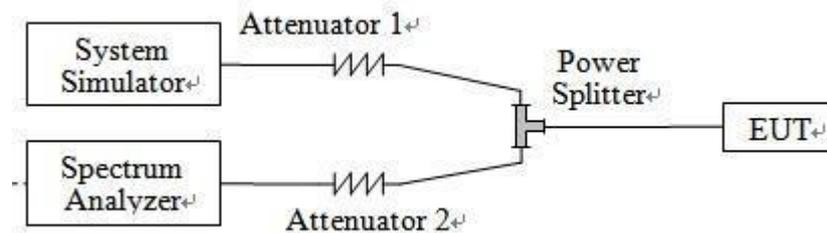
27.53 (m)(4) for Band 7

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 that $43 + 10 \log (P)$ 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.

2.6.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.6.3 Test Setup



2.6.4 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set $RBW \geq 1\% \text{ EBW}$ in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

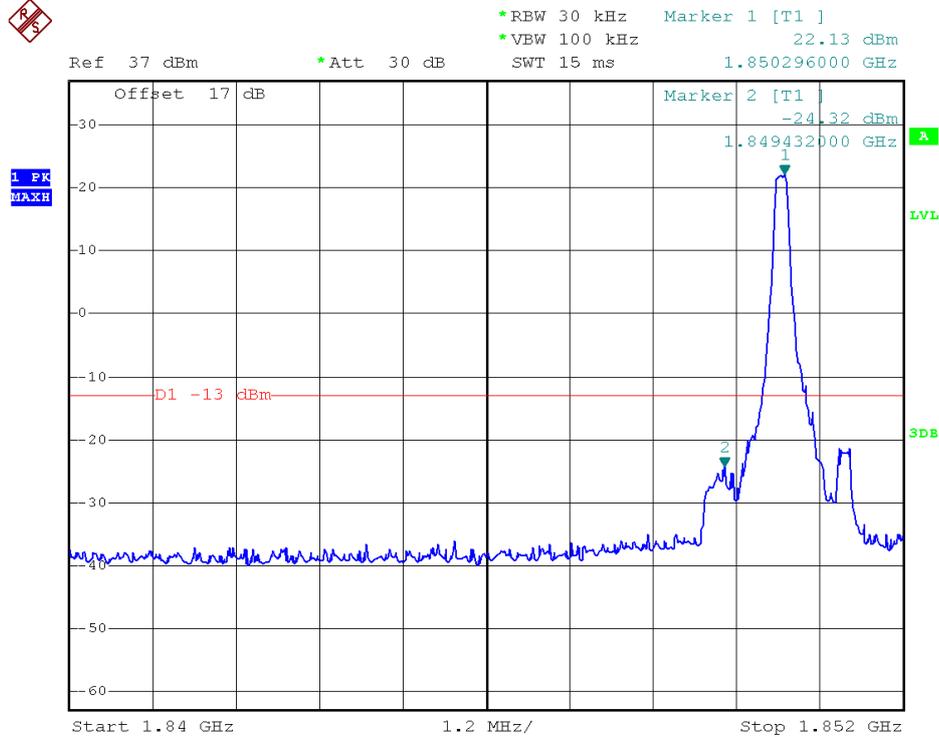
$$= -13\text{dBm}.$$

<For Band 7>

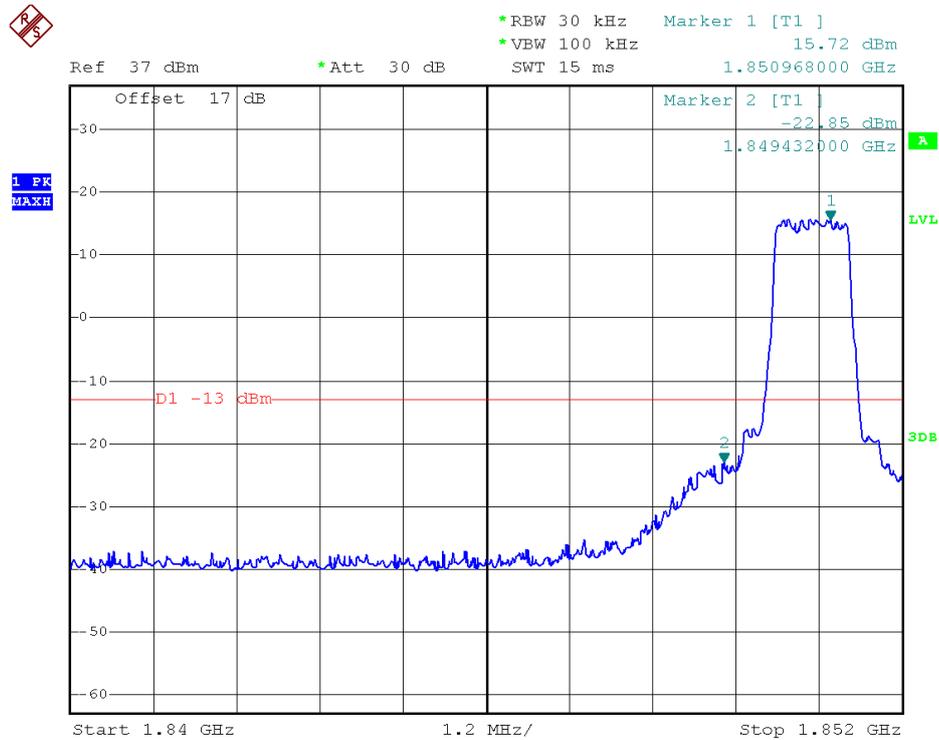
- The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
- $$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$
- $$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$
- $$= -25\text{dBm}.$$

2.6.5 Test Result of Conducted Band Edge

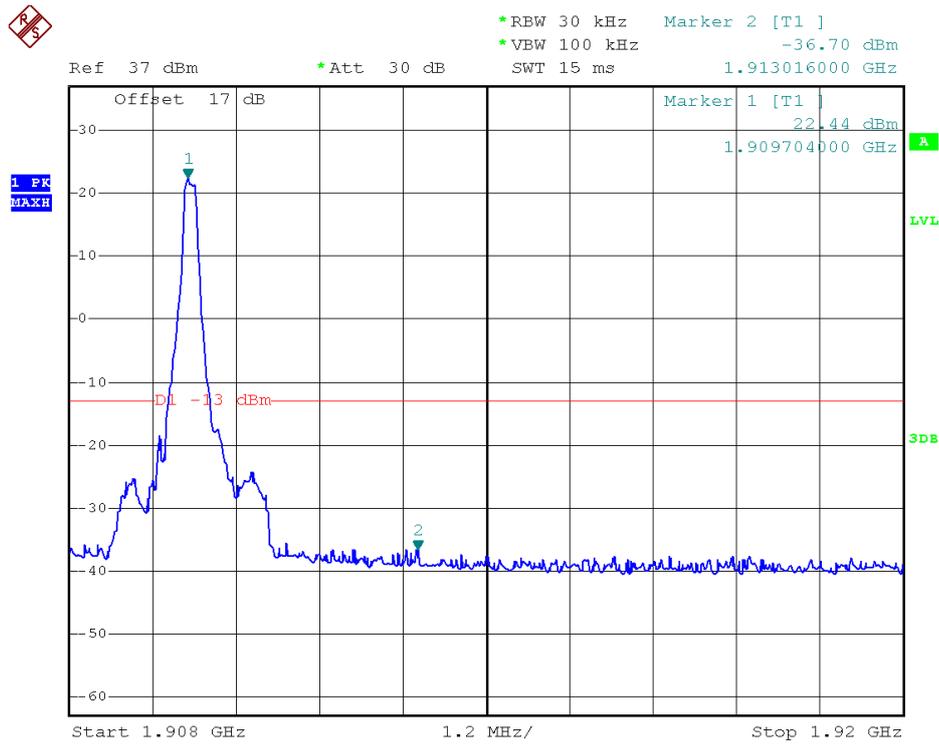
Band	LTE Band 2	Modulation	QPSK
Bandwidth	1.4MHz		



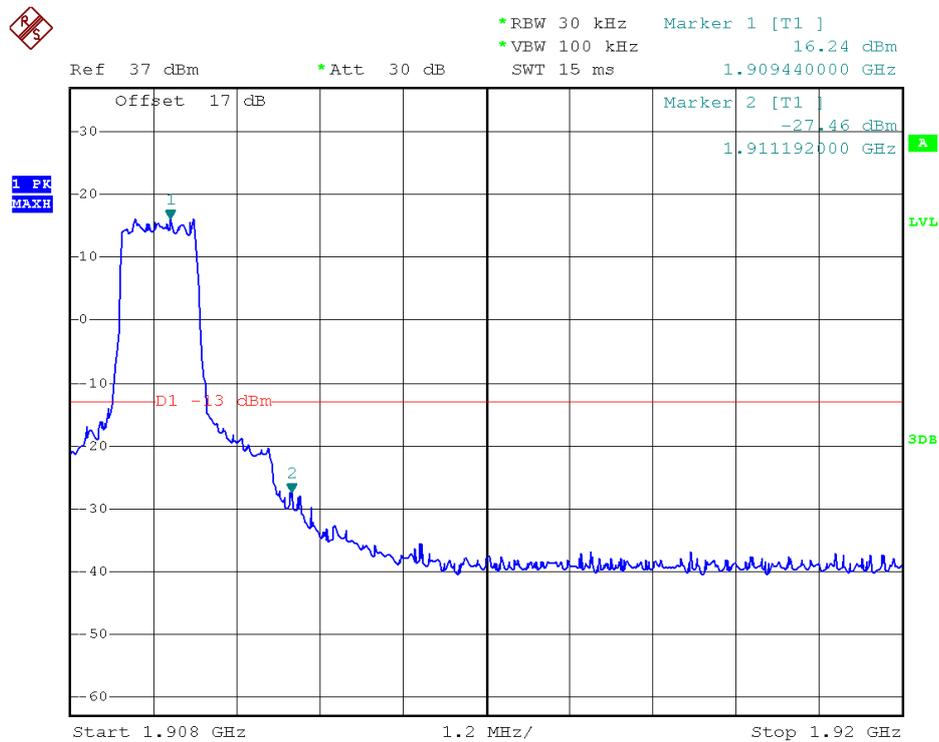
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



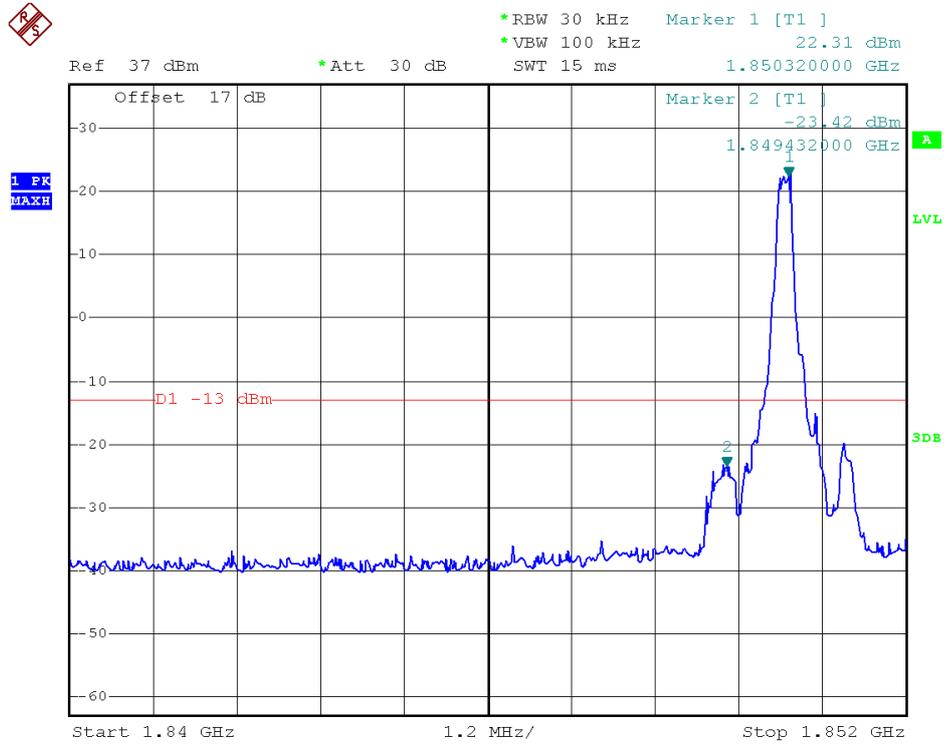
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



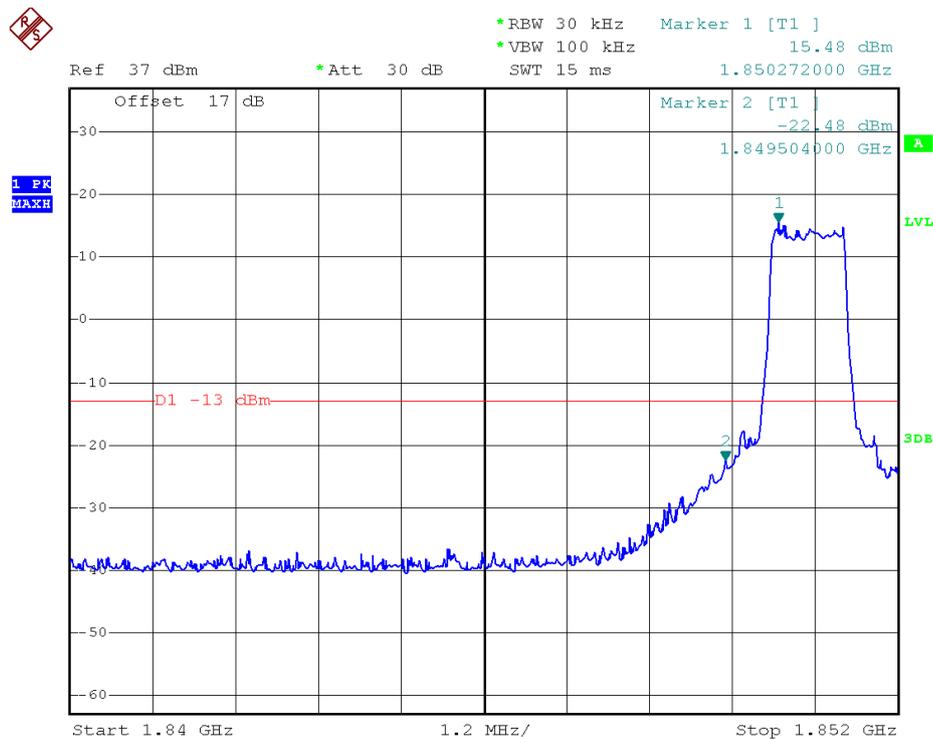
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



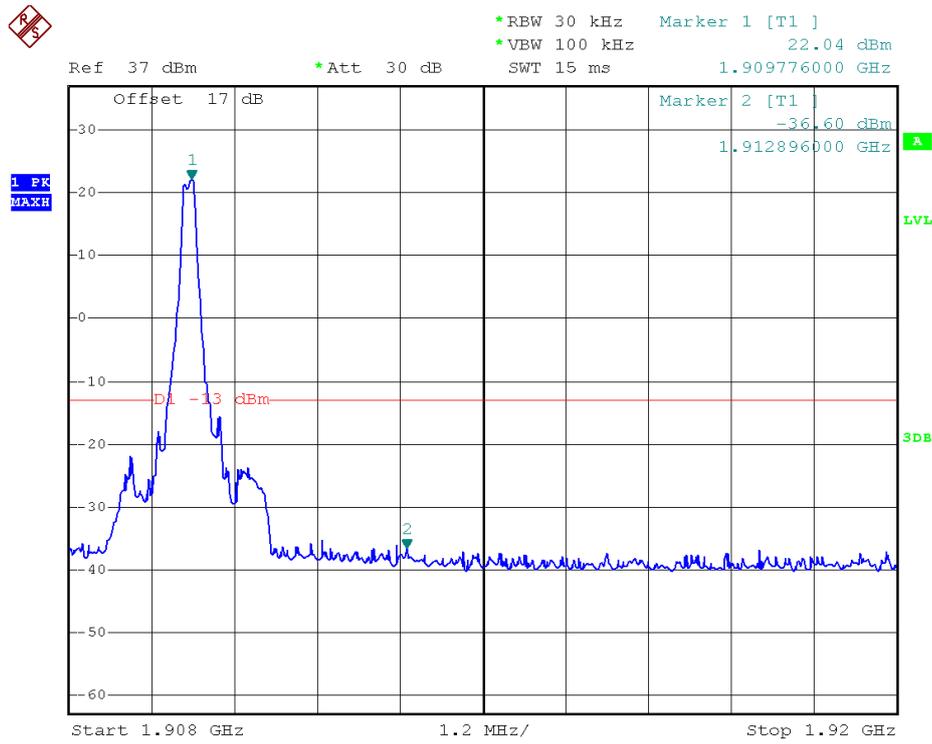
Band	LTE Band 2	Modulation	16QAM
Bandwidth	1.4MHz		



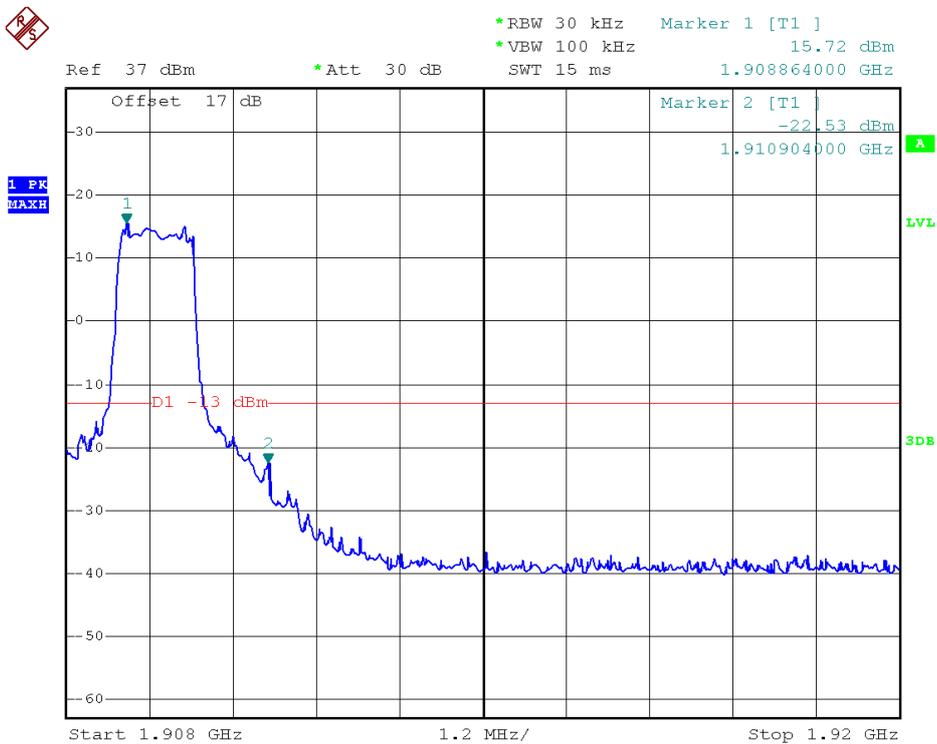
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 6, RB Offset 0



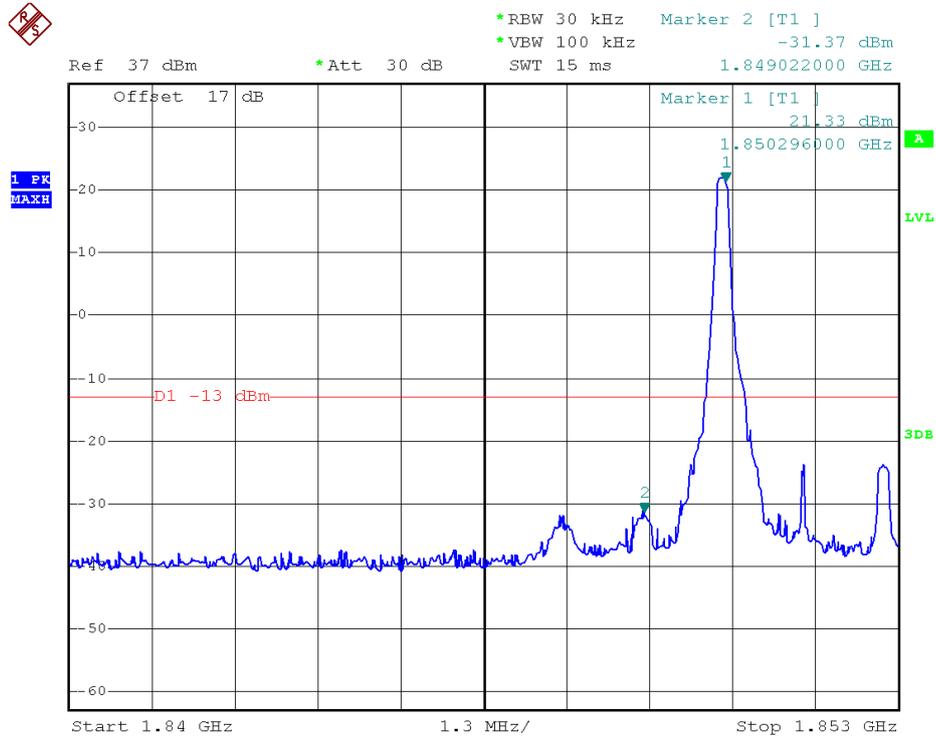
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 5



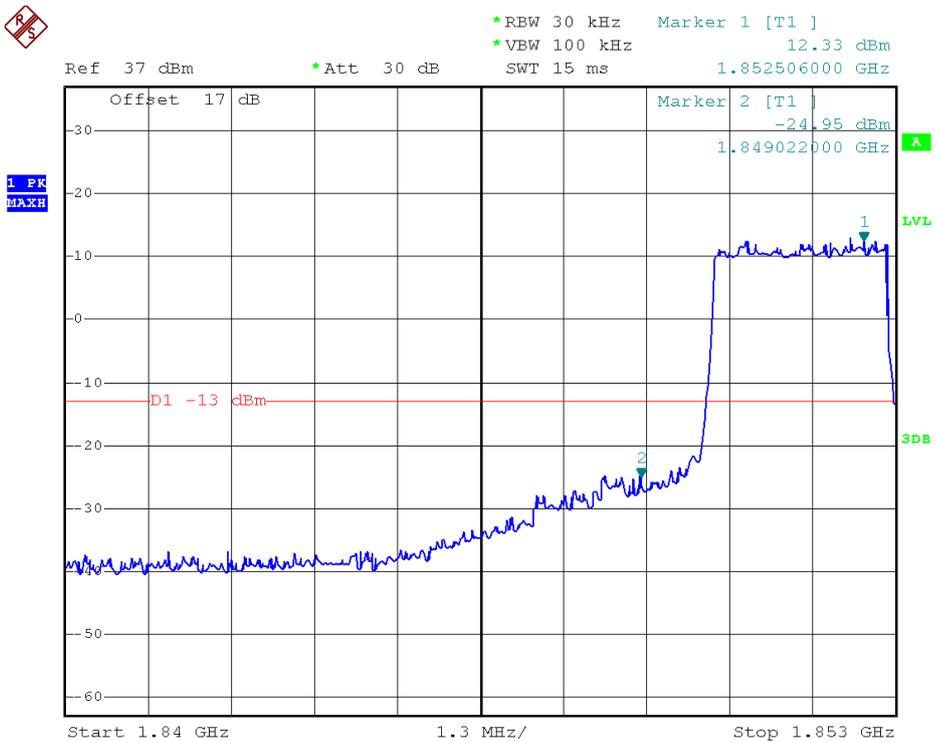
Higher Band Edge Plot for 16QAM-RB Size 6, RB Offset 0



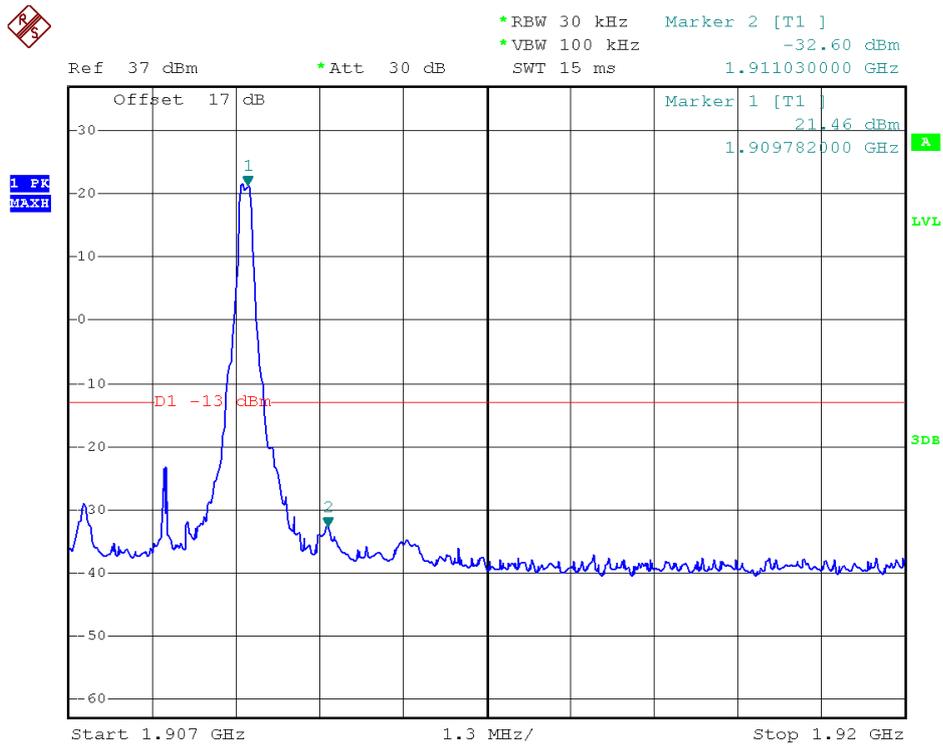
Band	LTE Band 2	Modulation	QPSK
Bandwidth	3MHz		



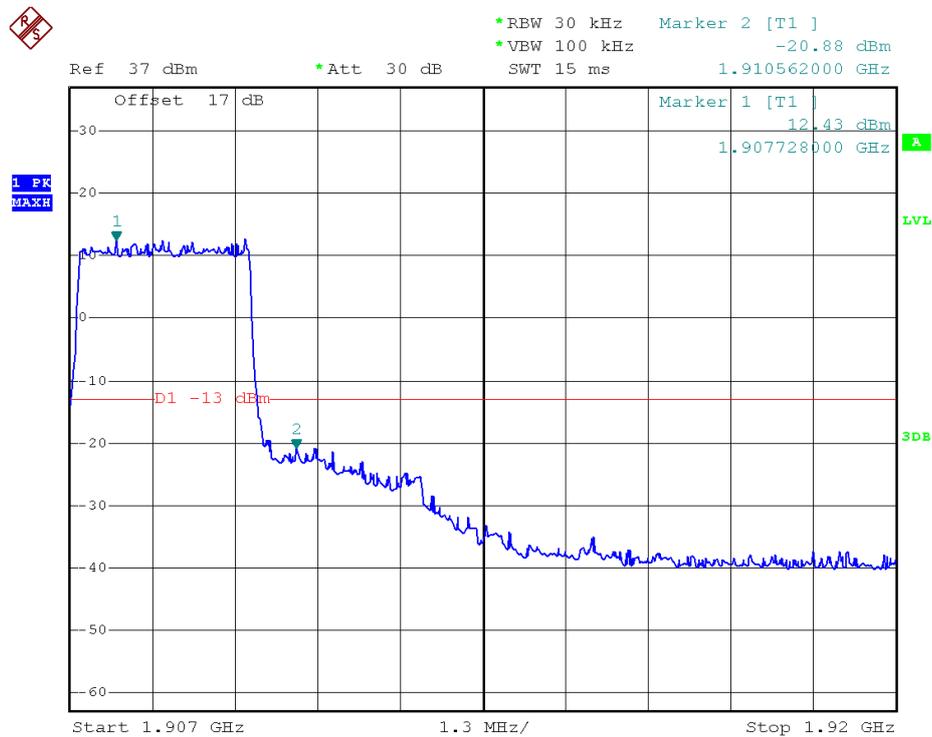
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



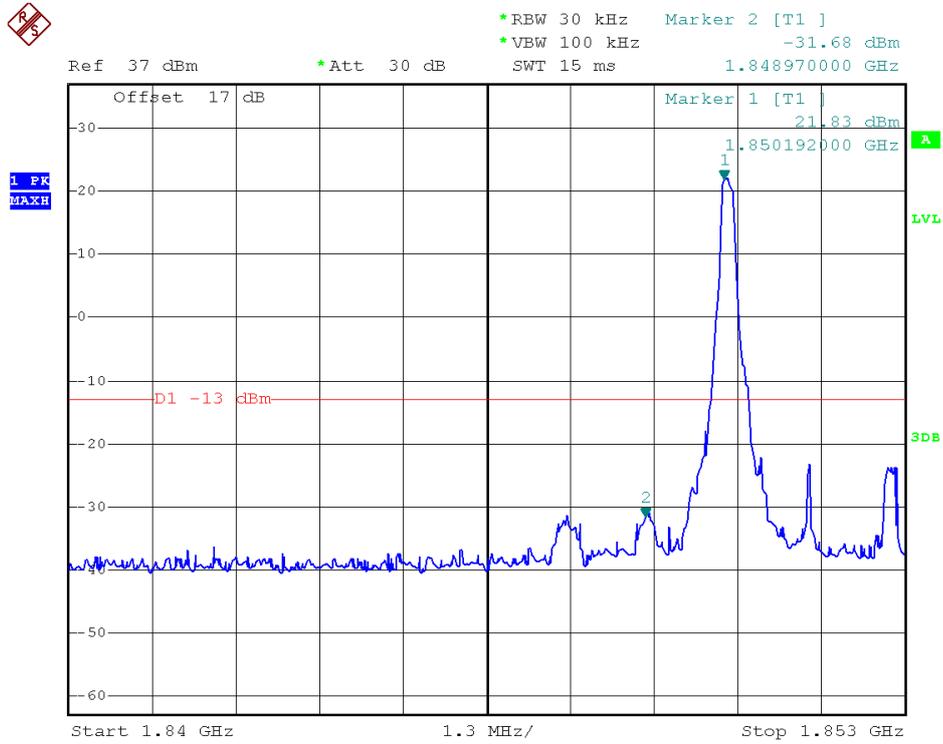
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



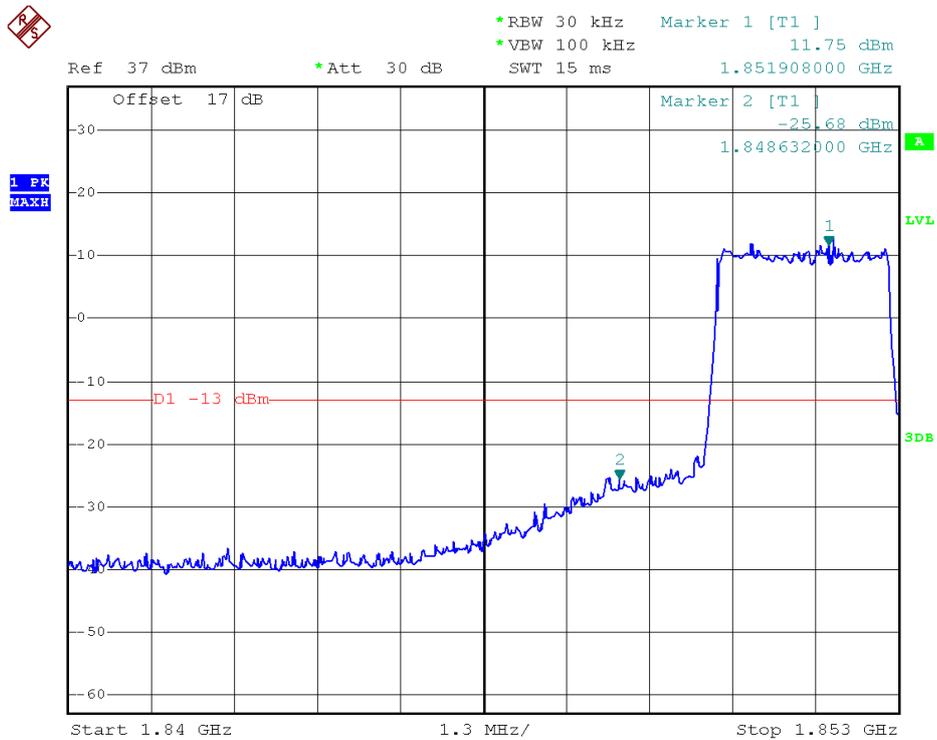
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



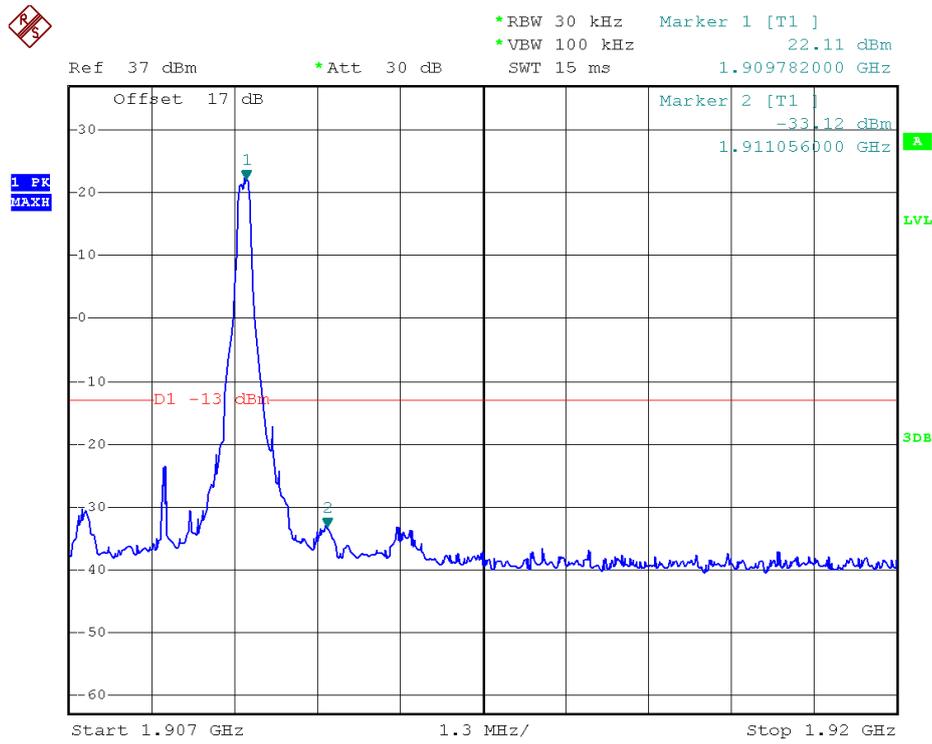
Band	LTE Band 2	Modulation	16QAM
Bandwidth	3MHz		



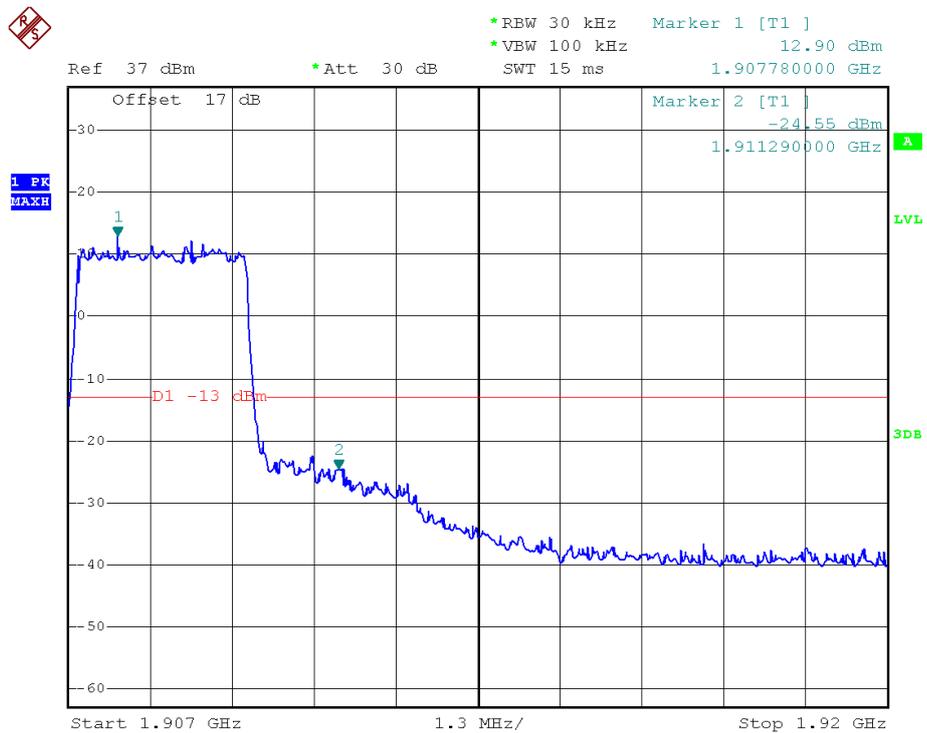
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



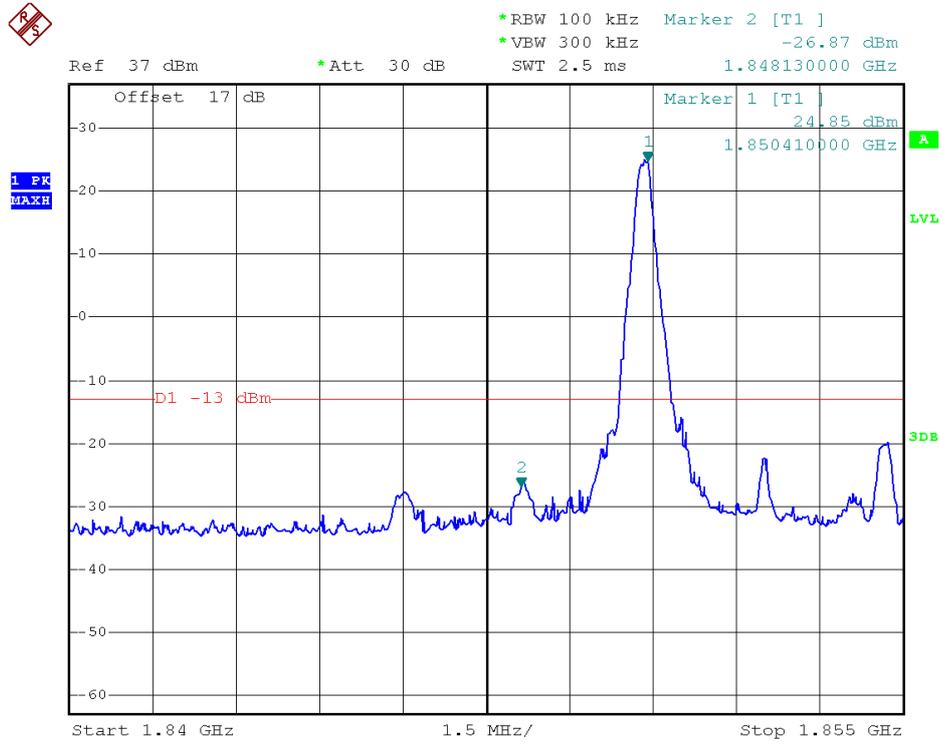
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 14



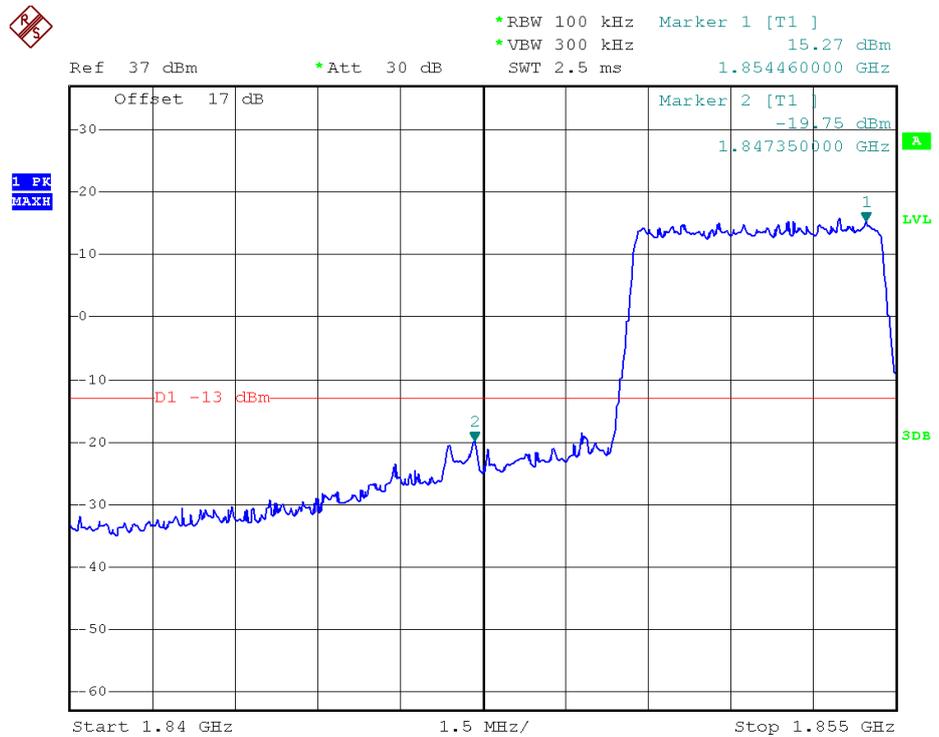
Higher Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



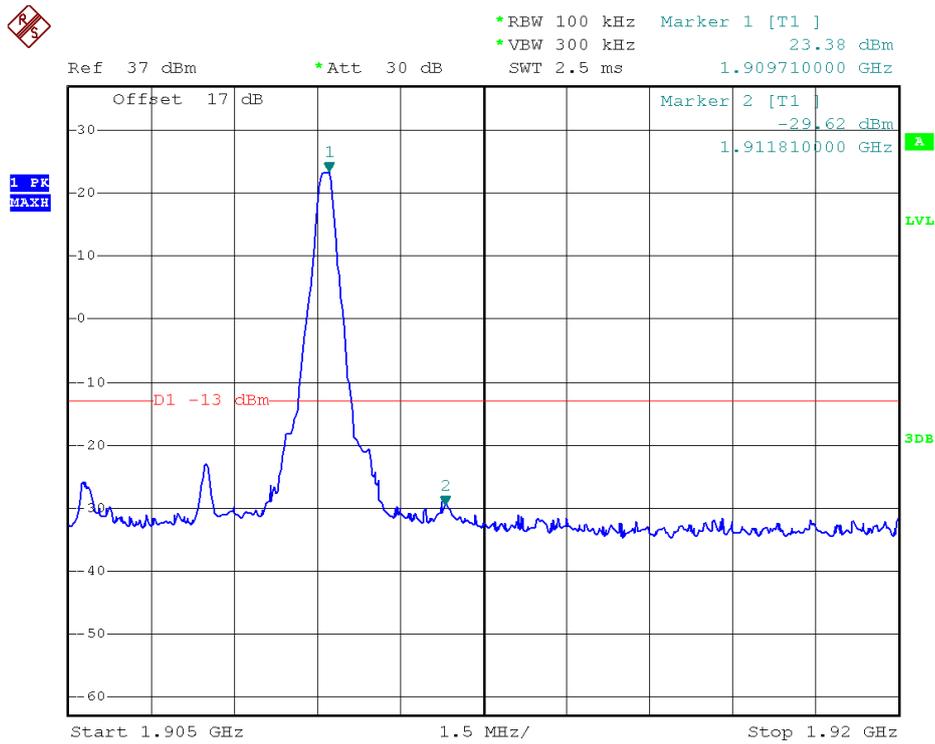
Band	LTE Band 2	Modulation	QPSK
Bandwidth	5MHz		



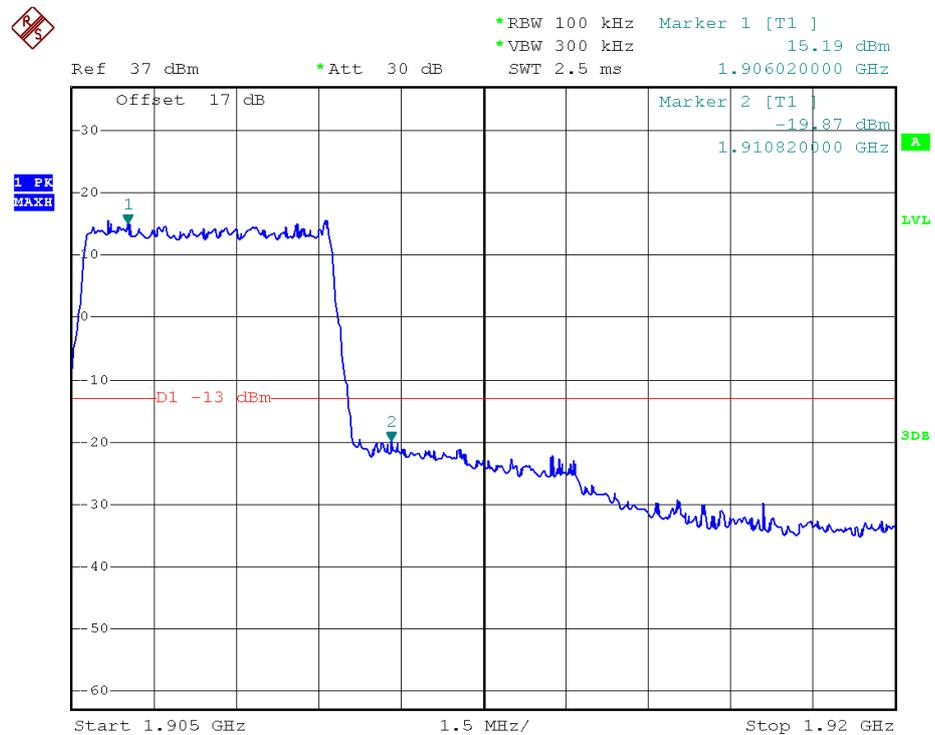
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



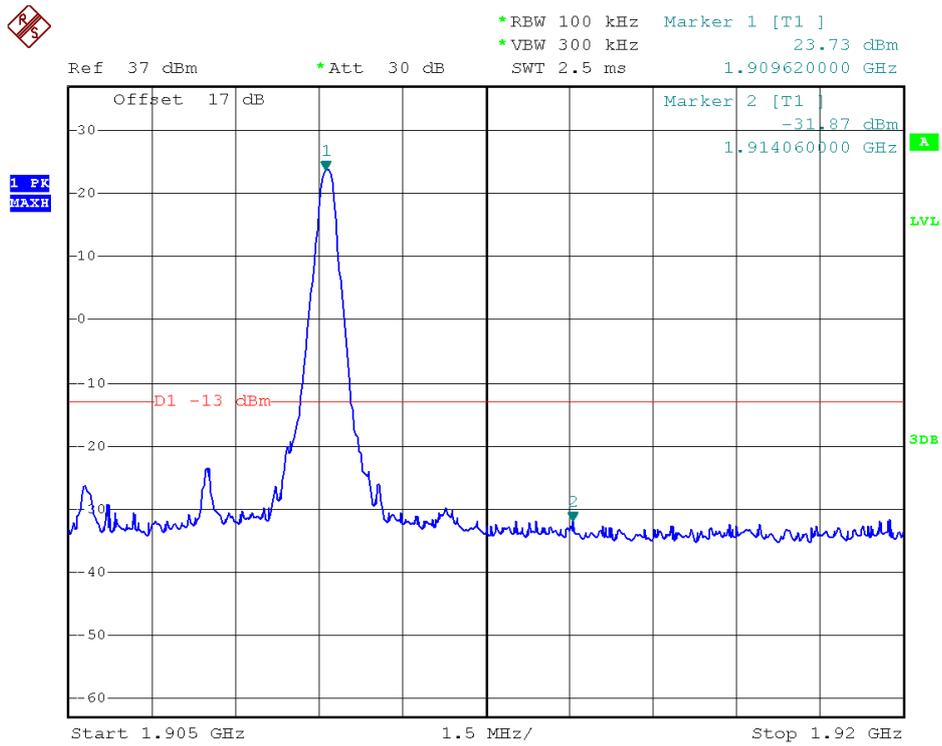
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



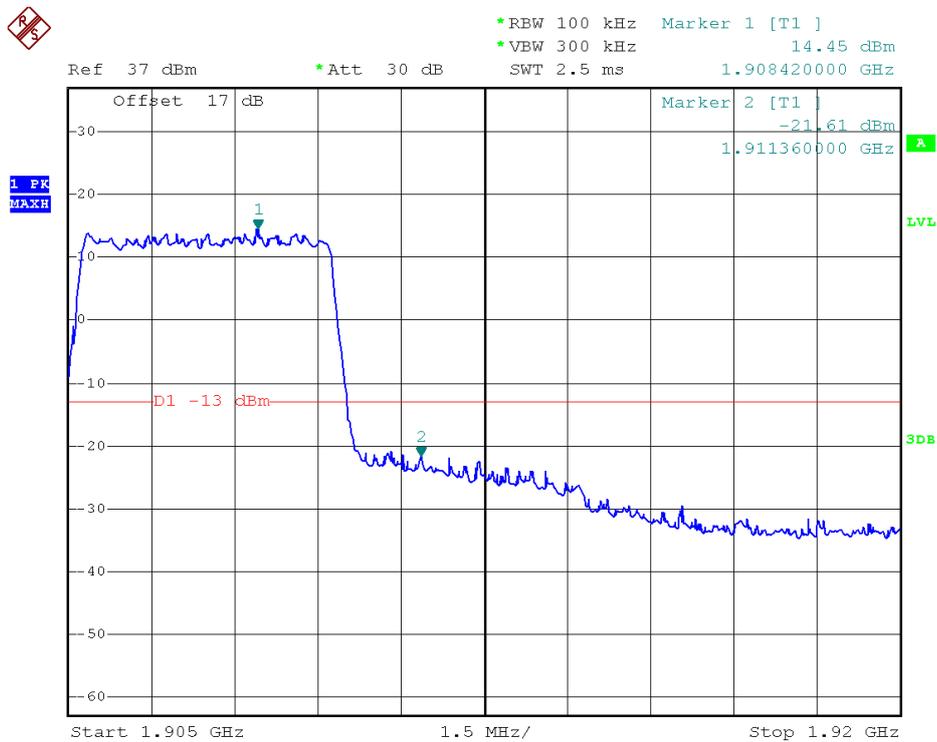
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



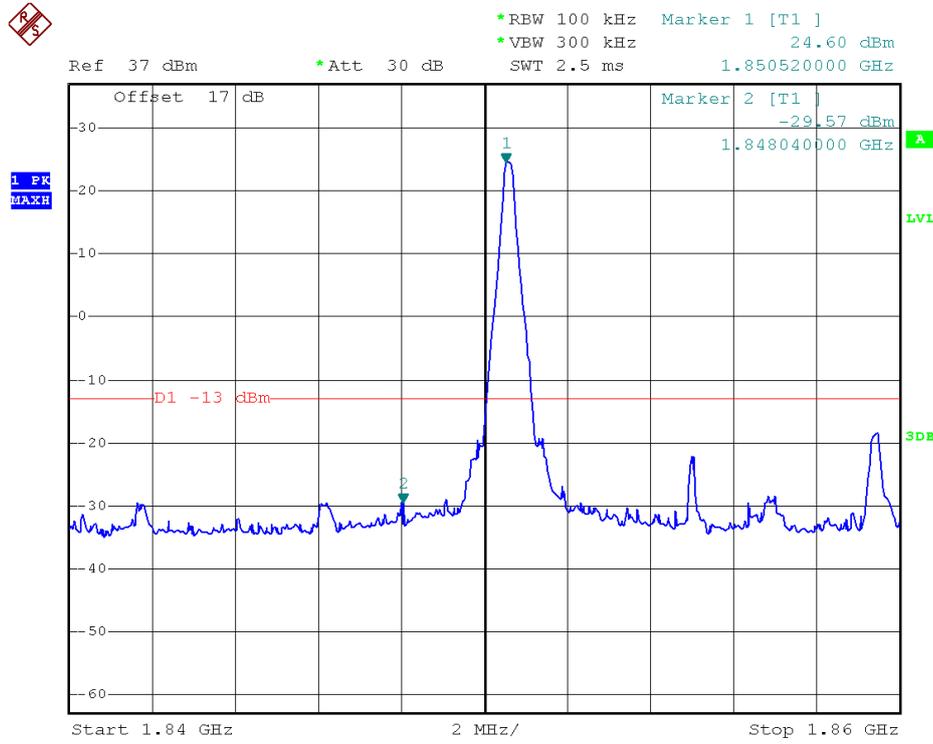
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



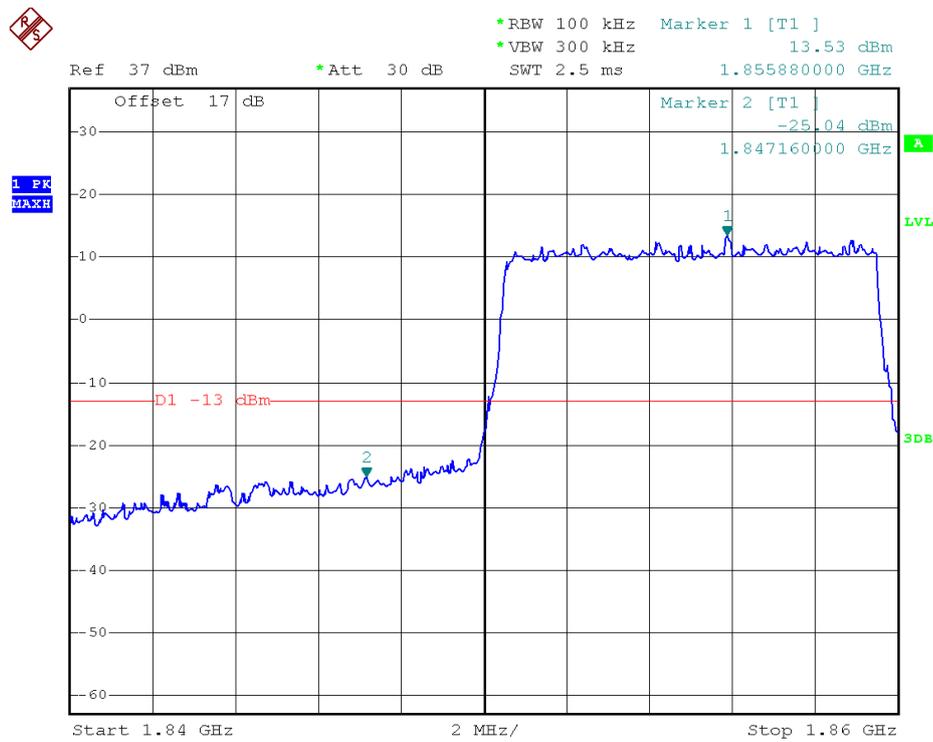
Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



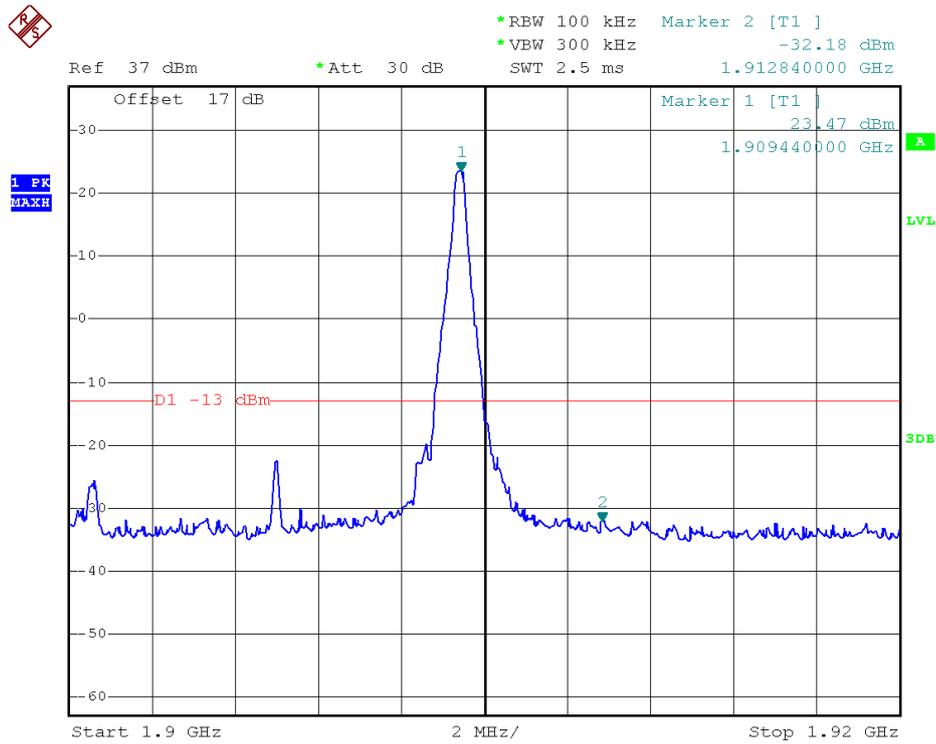
Band	LTE Band 2	Modulation	QPSK
Bandwidth	10MHz		



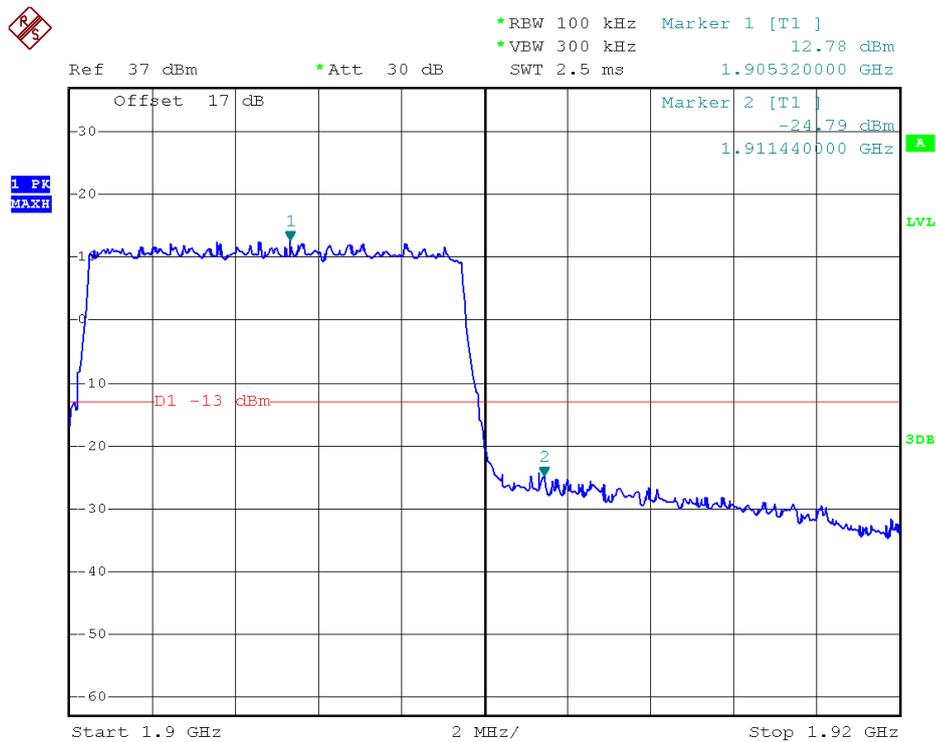
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



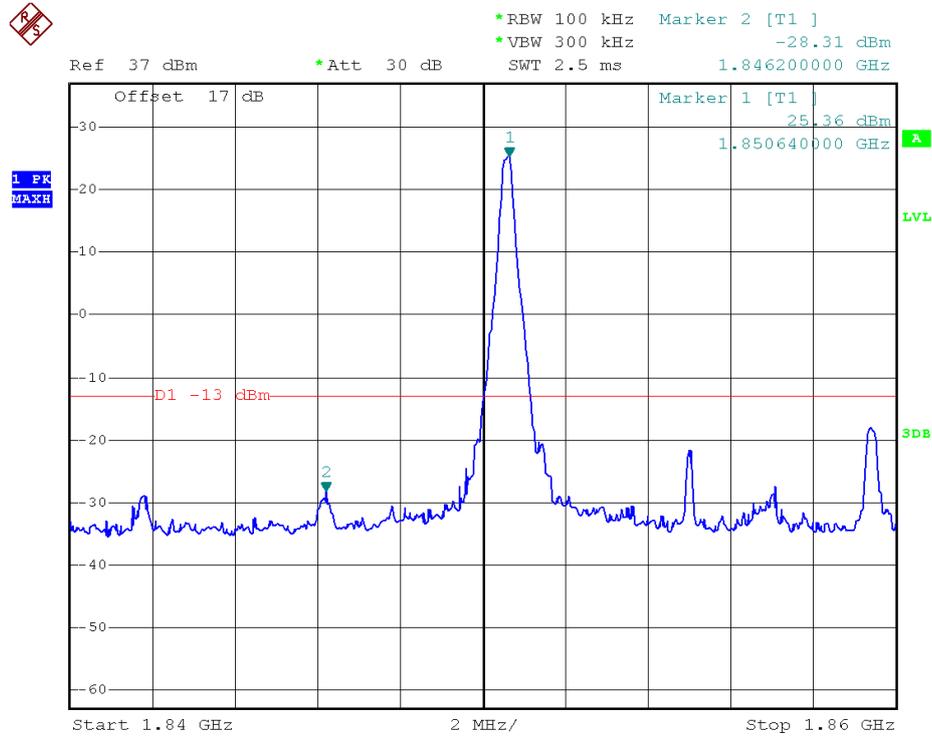
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



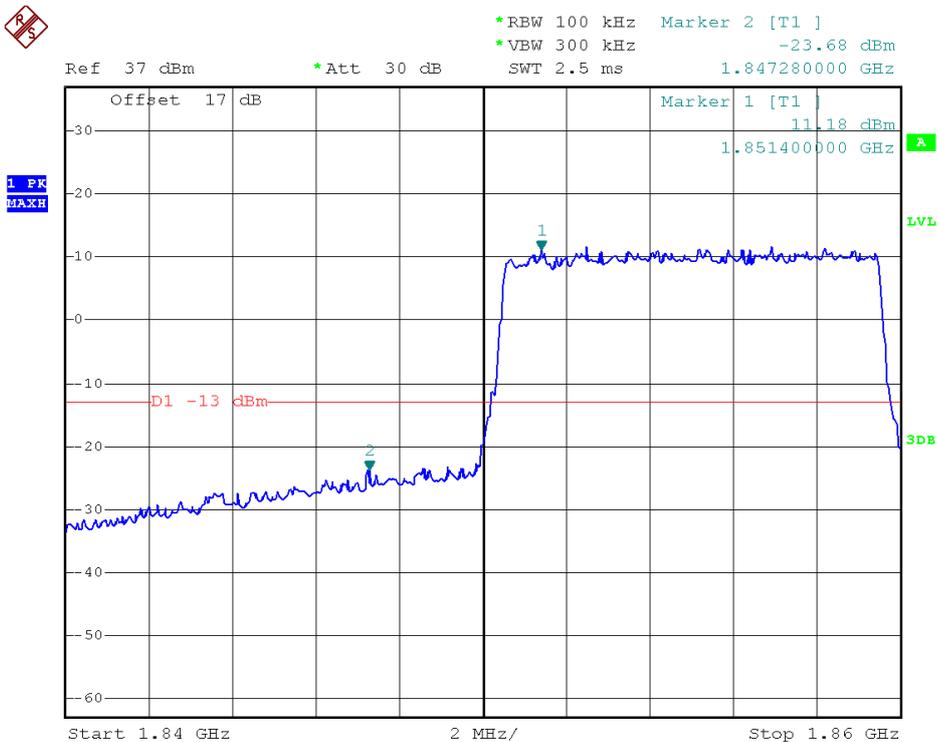
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



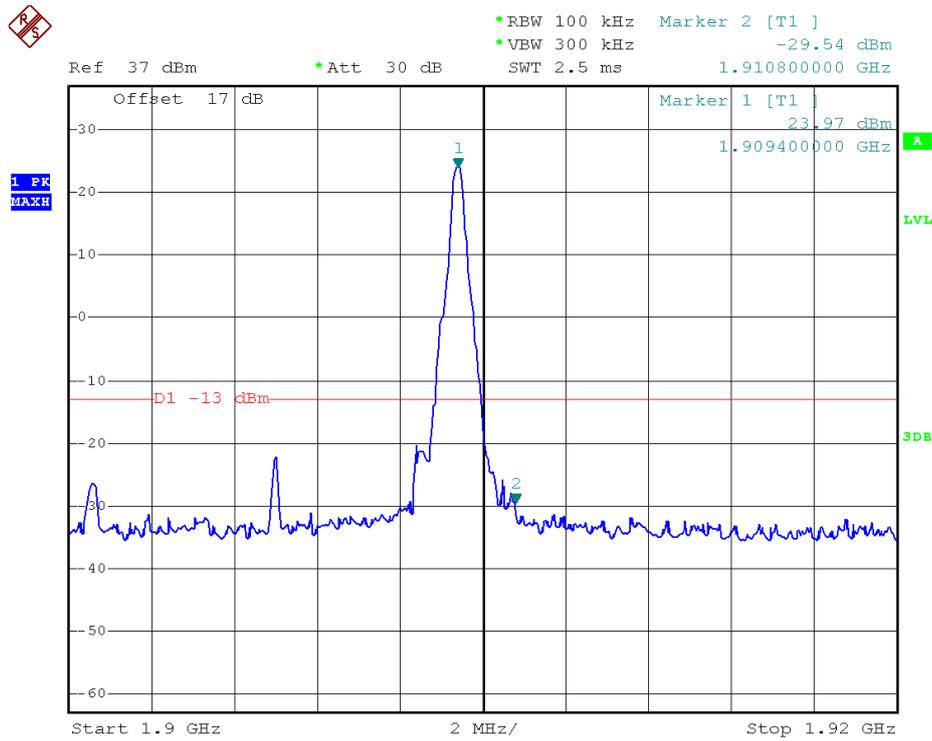
Band	LTE Band 2	Modulation	16QAM
Bandwidth	10MHz		



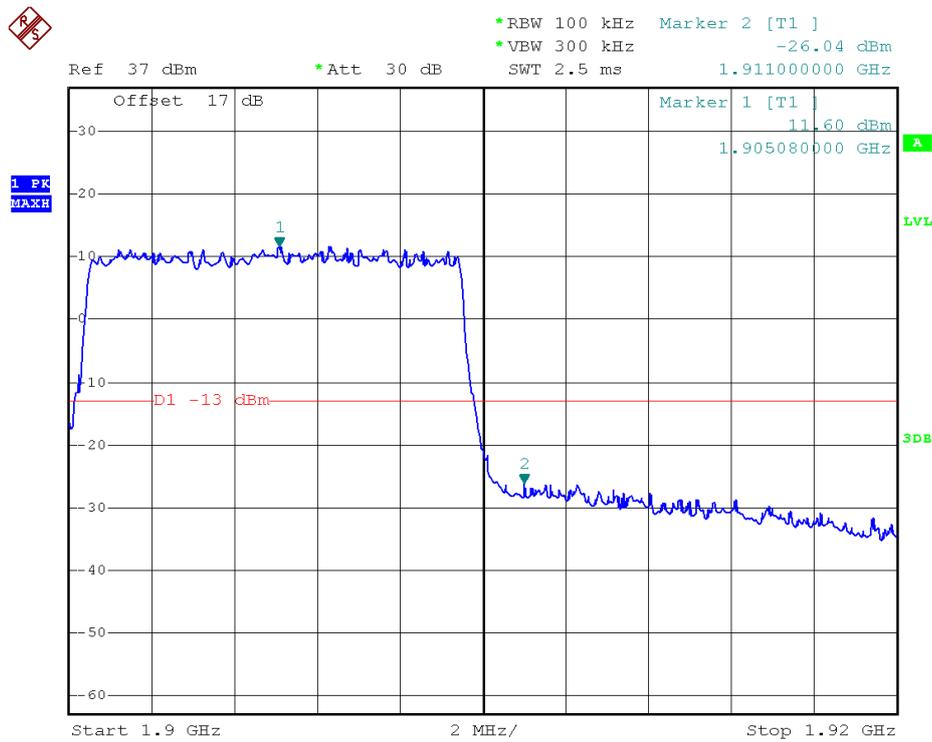
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



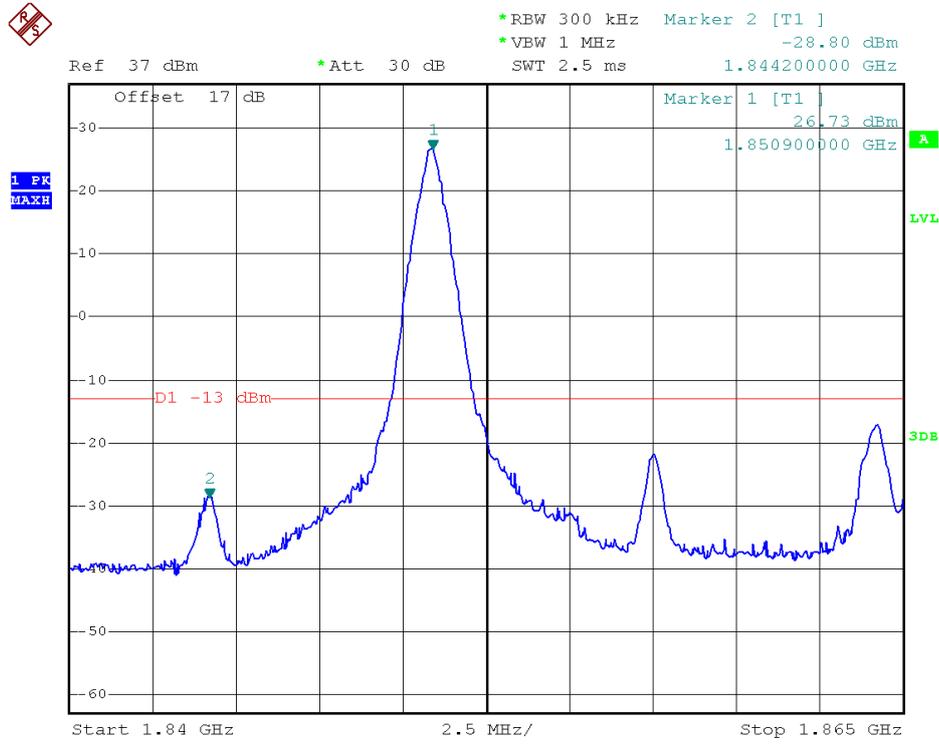
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



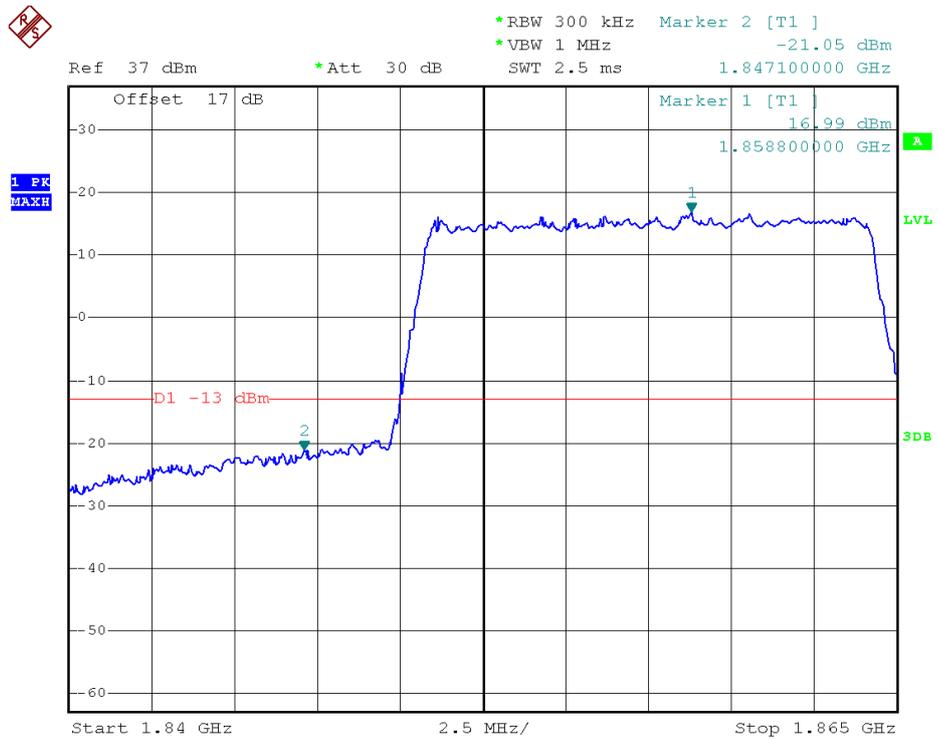
Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



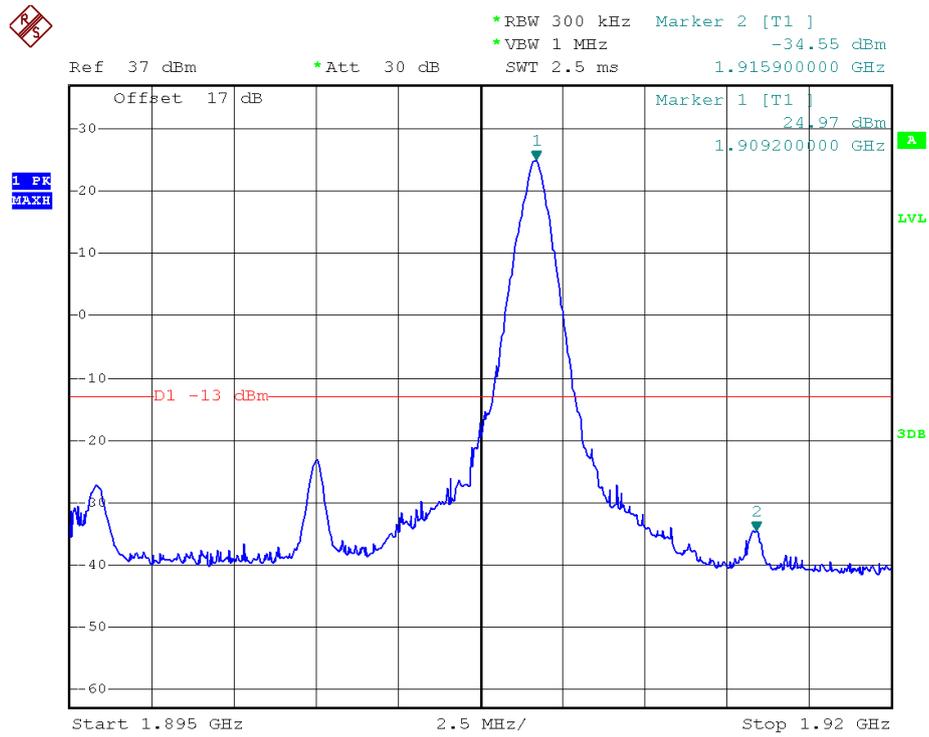
Band	LTE Band 2	Modulation	QPSK
Bandwidth	15MHz		



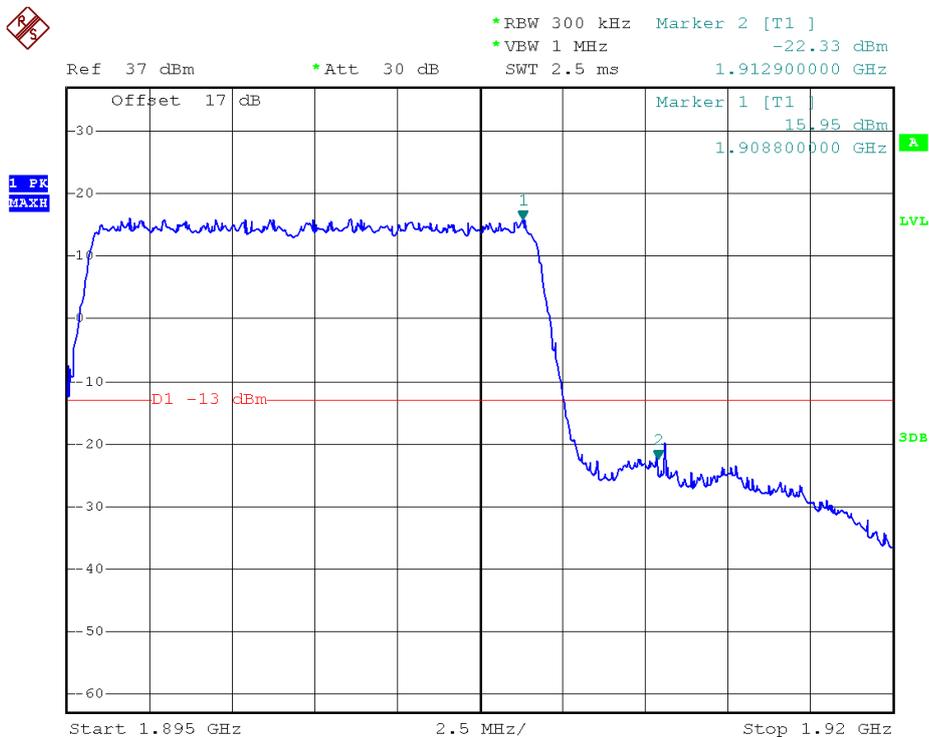
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



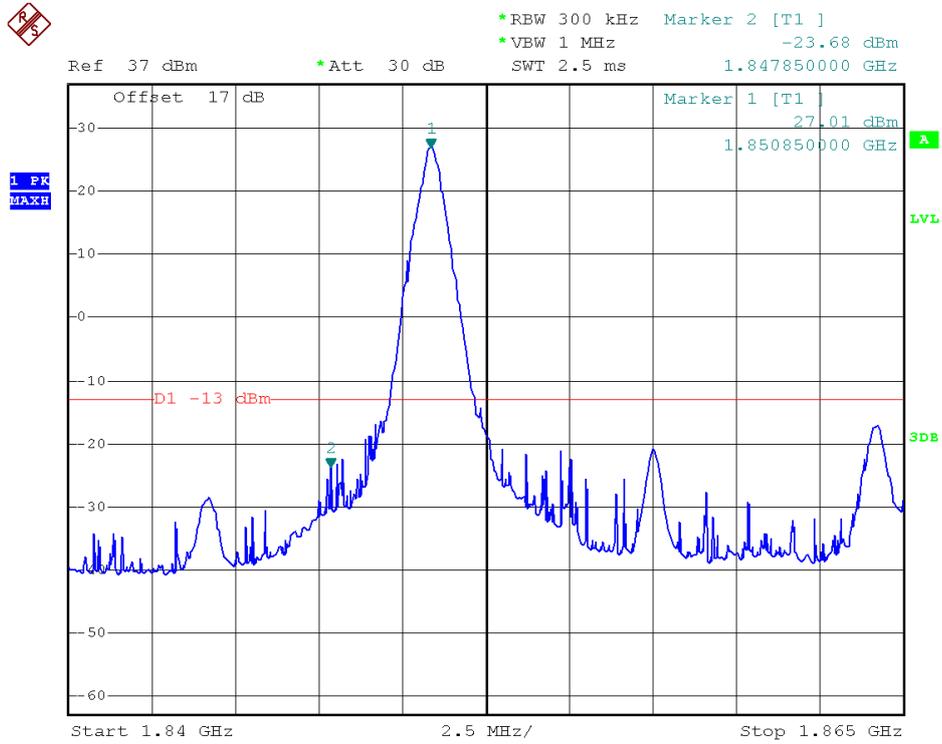
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



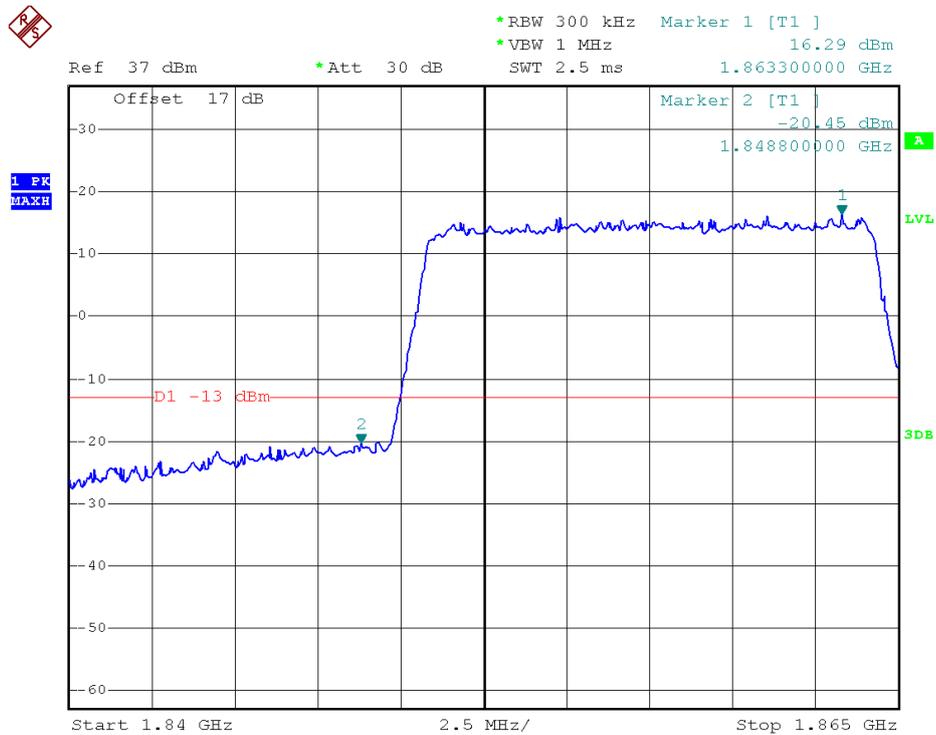
Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0



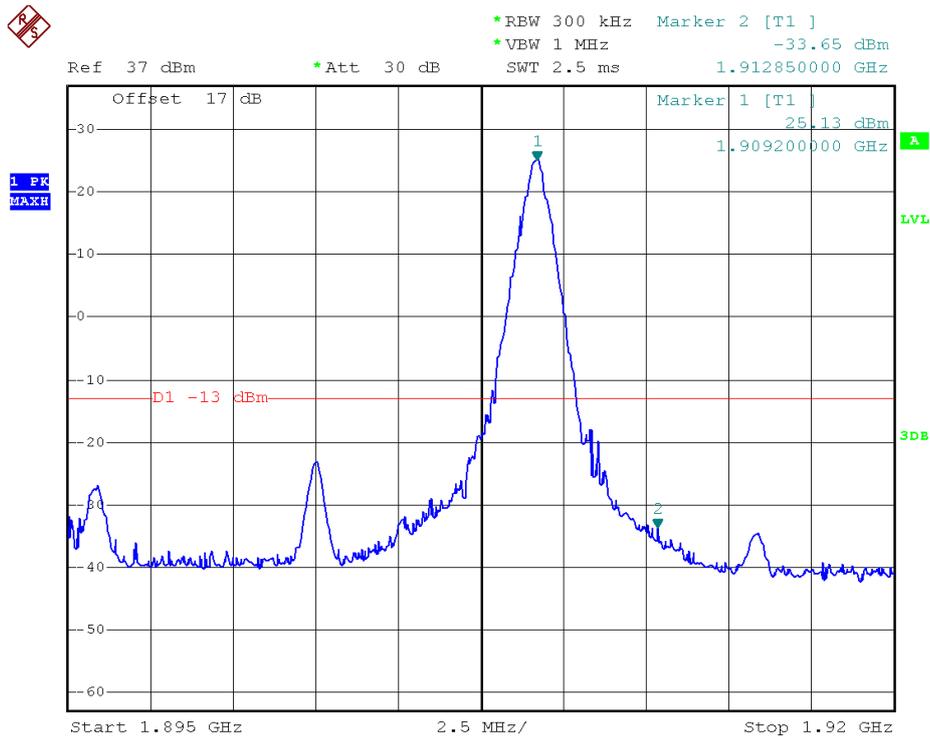
Band	LTE Band 2	Modulation	16QAM
Bandwidth	15MHz		



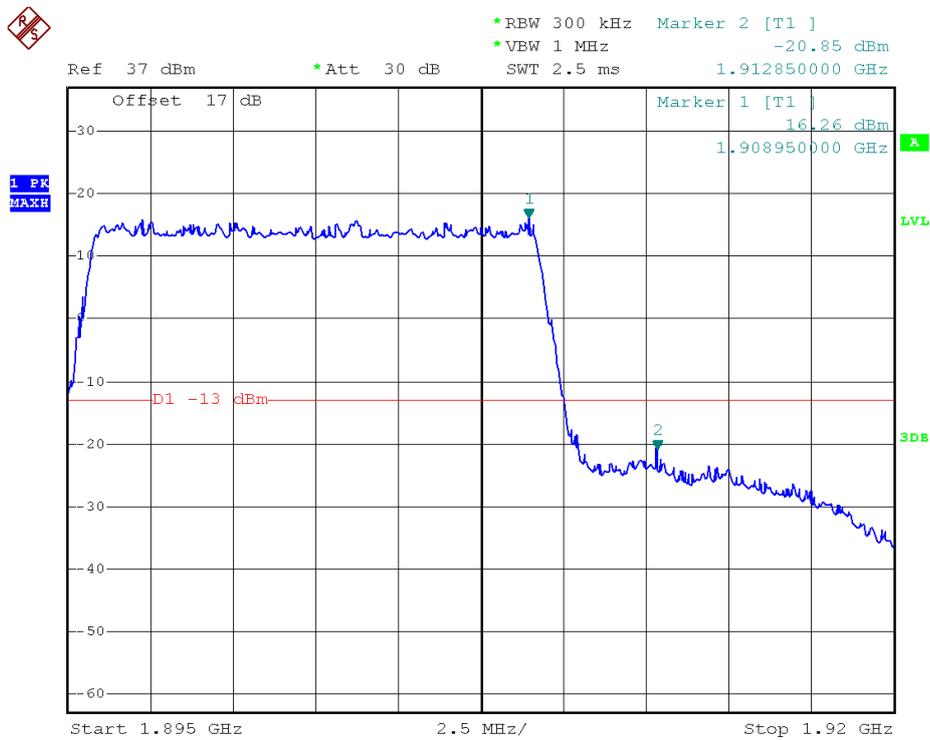
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



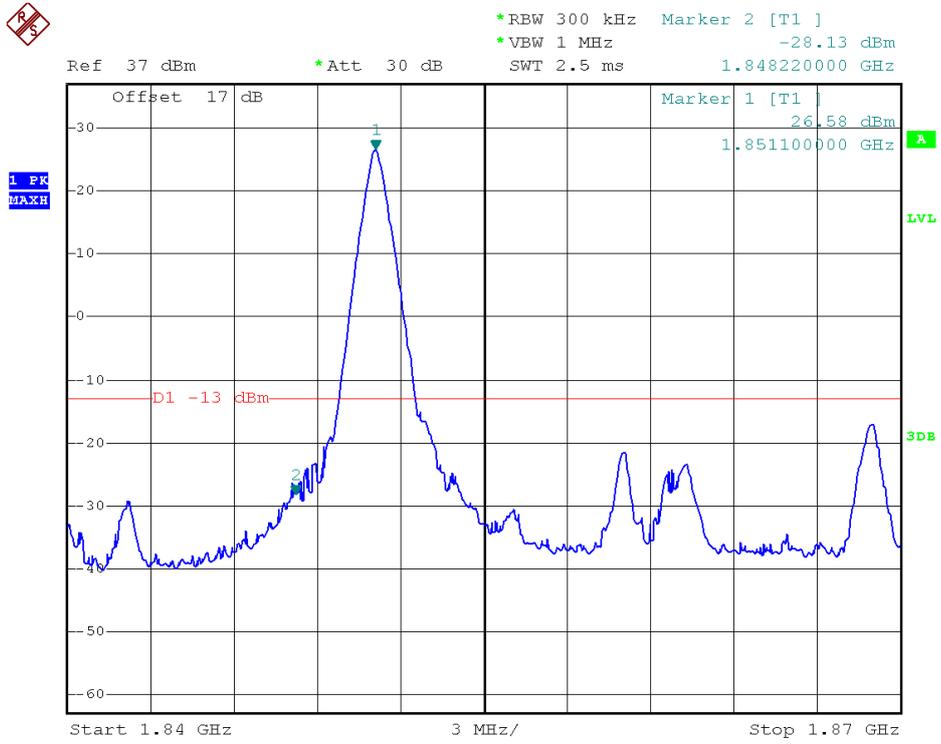
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



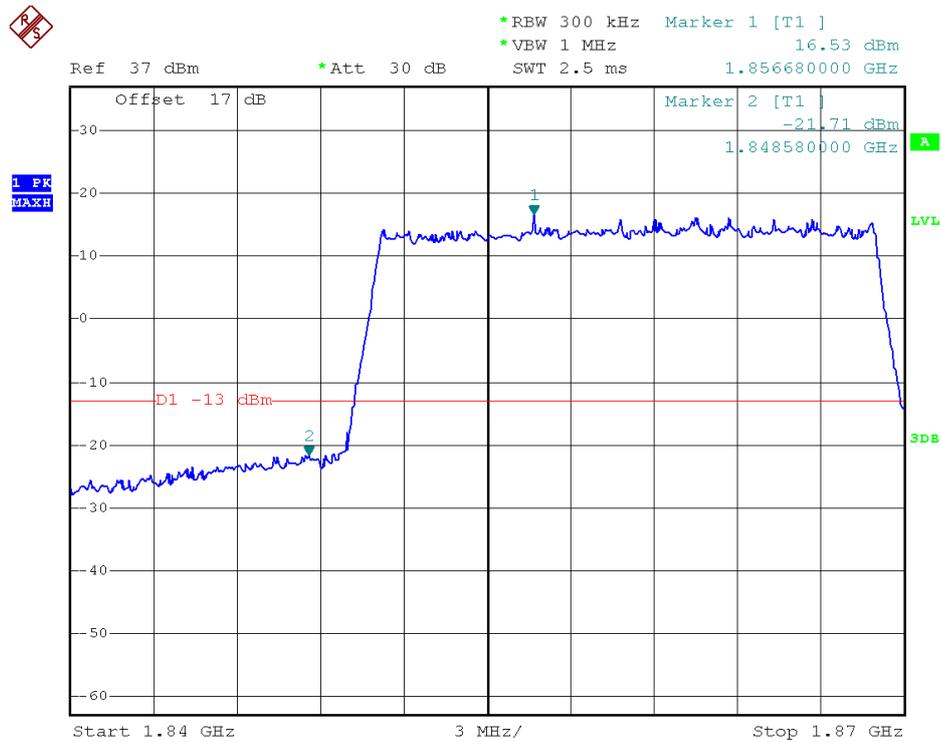
Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



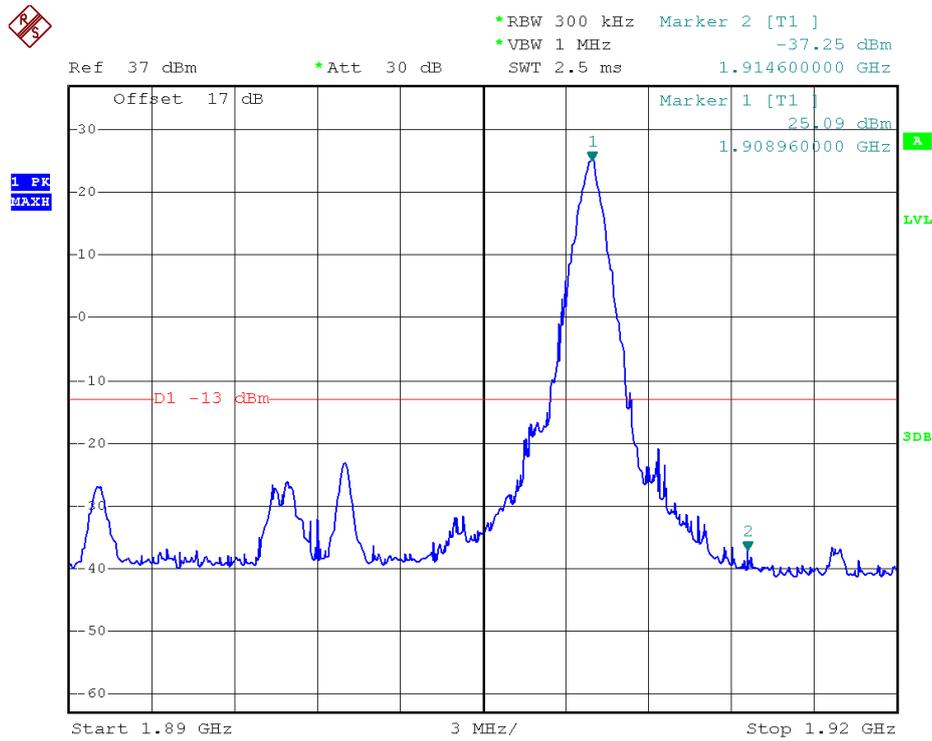
Band	LTE Band 2	Modulation	QPSK
Bandwidth	20MHz		



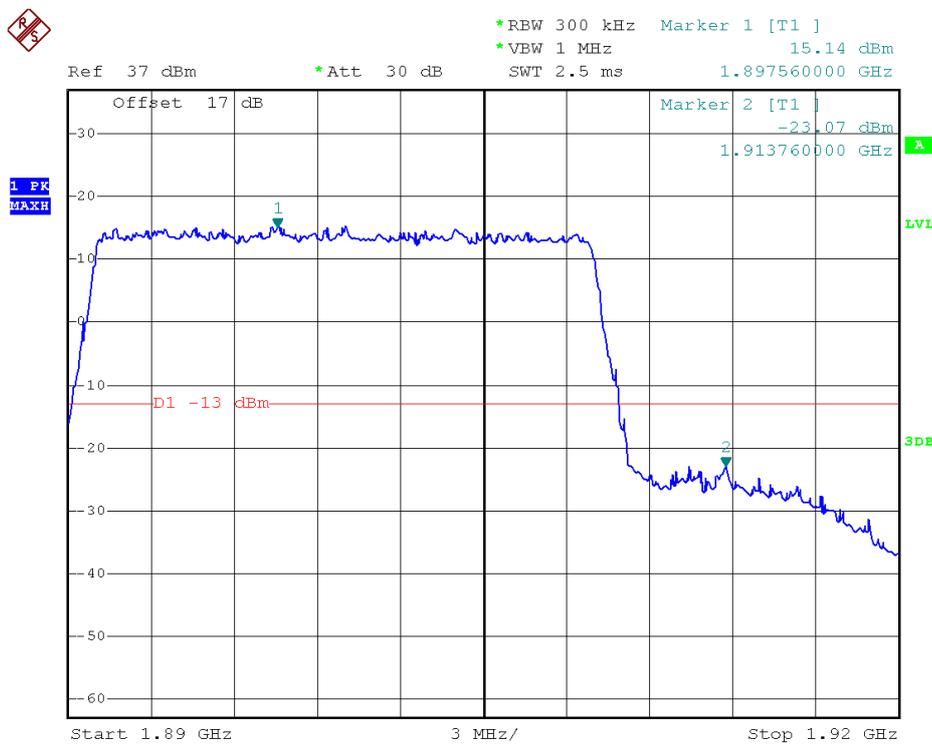
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



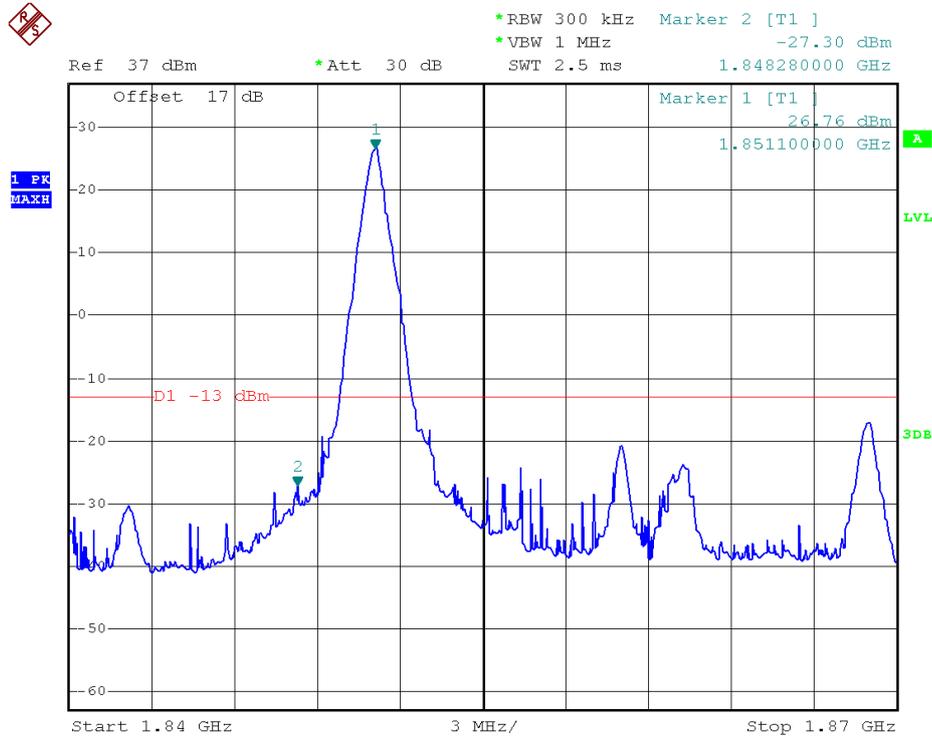
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



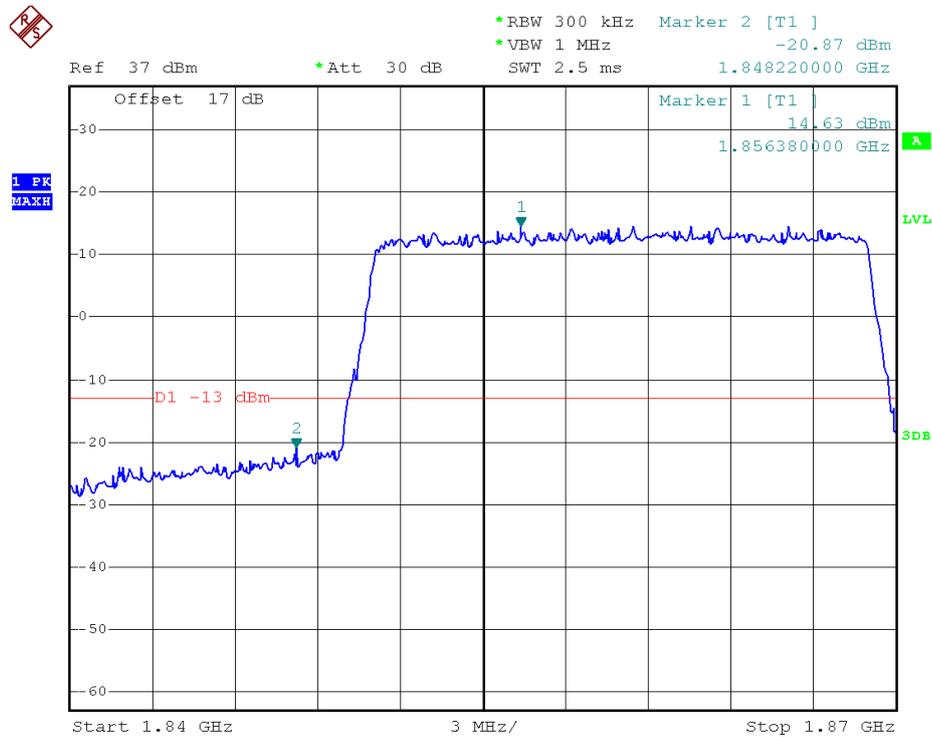
Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0



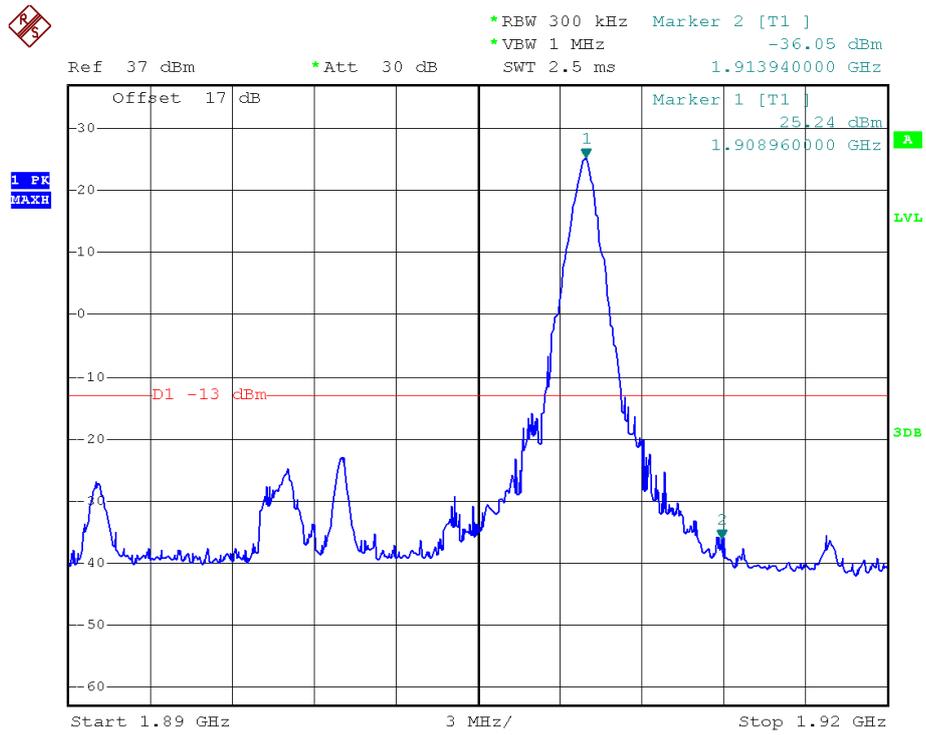
Band	LTE Band 2	Modulation	16QAM
Bandwidth	20MHz		



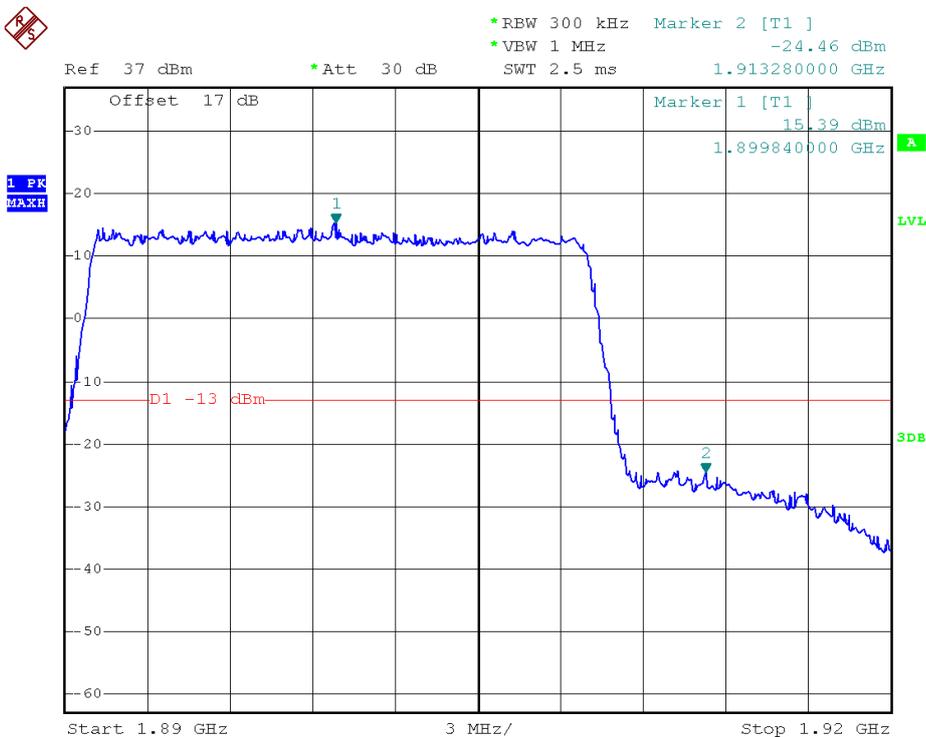
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



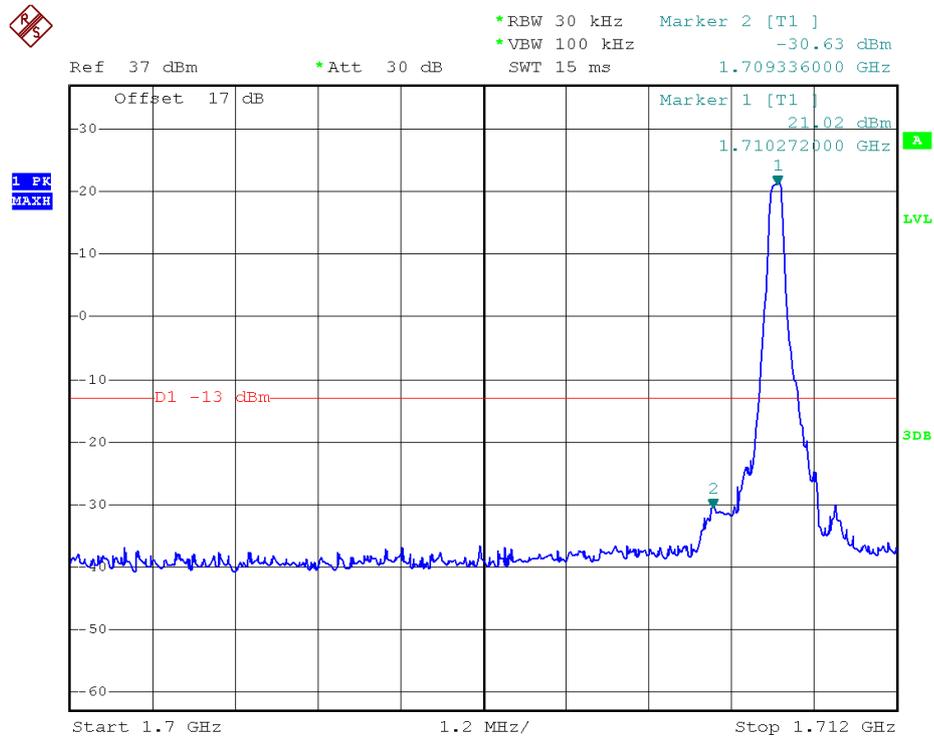
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99



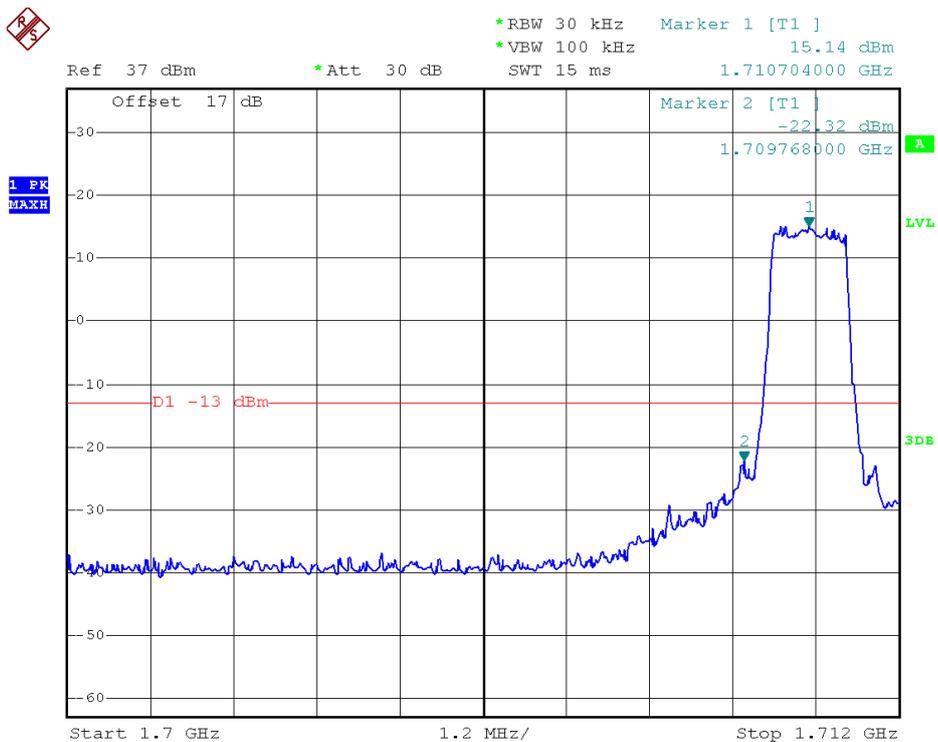
Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



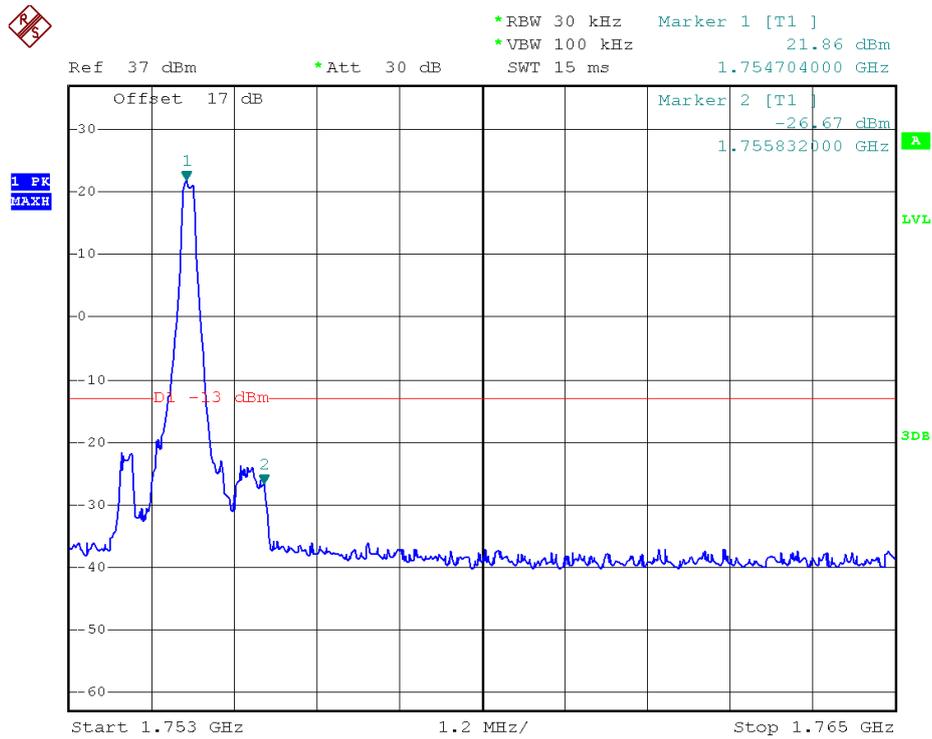
Band	LTE Band 4	Modulation	QPSK
Bandwidth	1.4MHz		



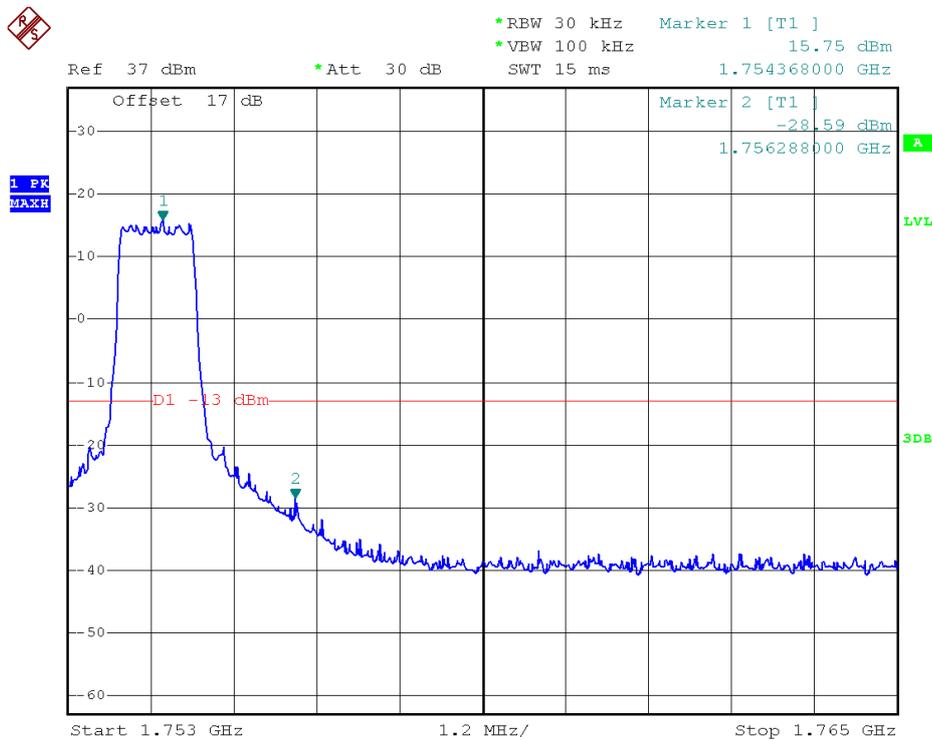
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



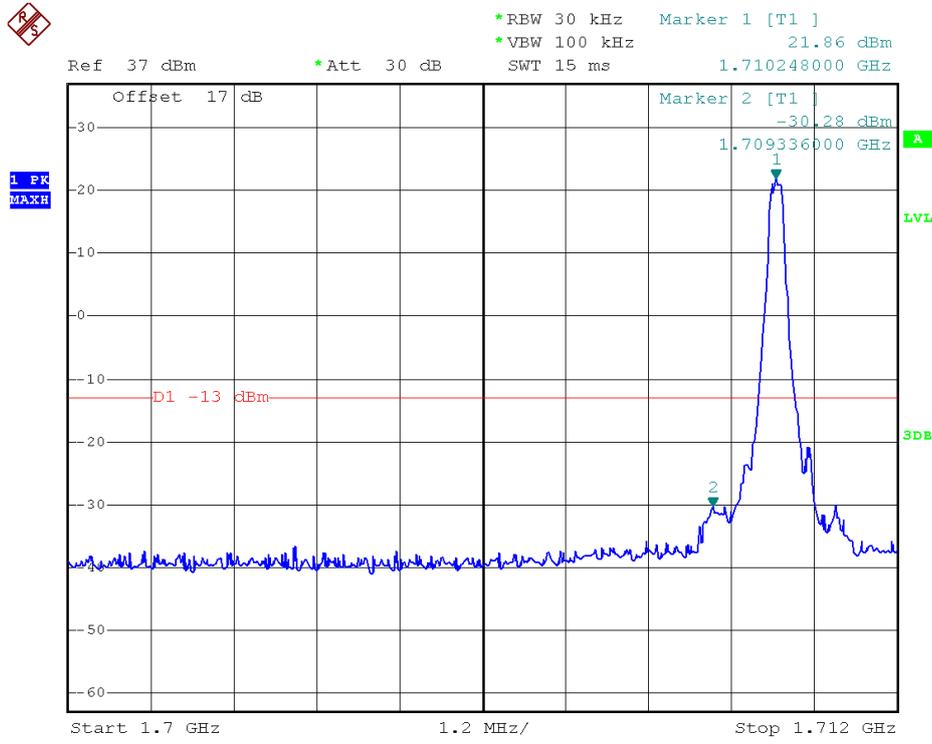
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



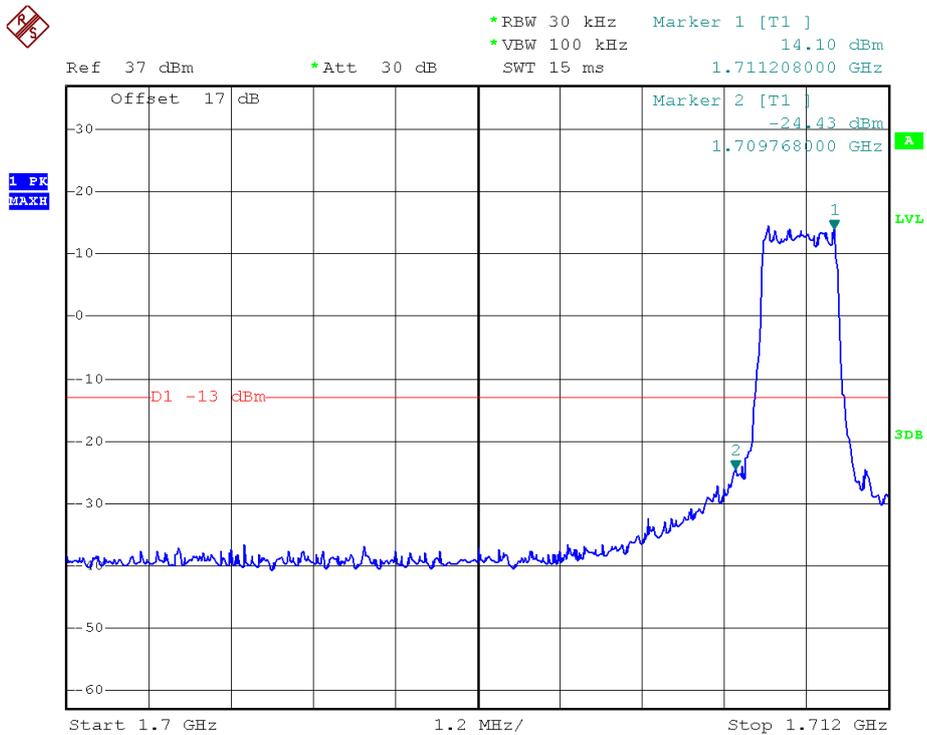
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



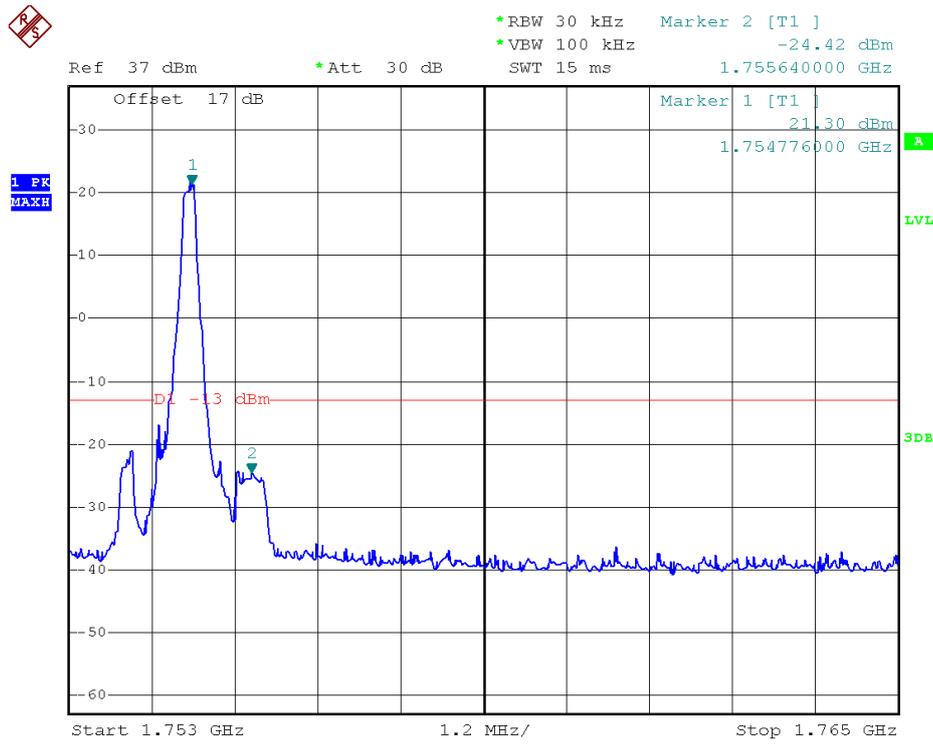
Band	LTE Band 4	Modulation	16QAM
Bandwidth	1.4MHz		



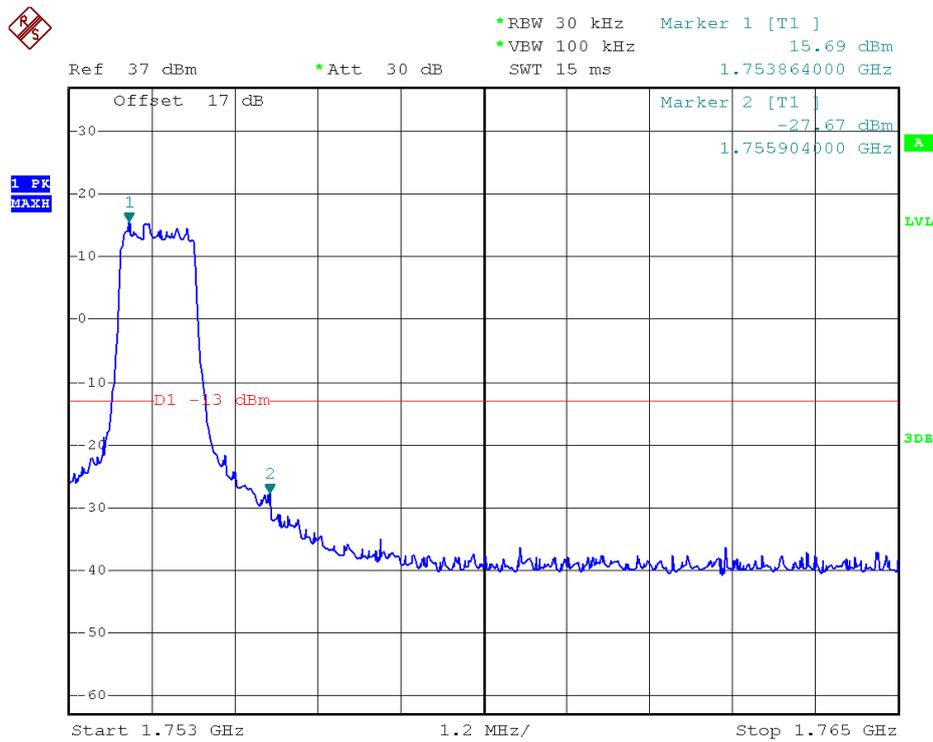
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



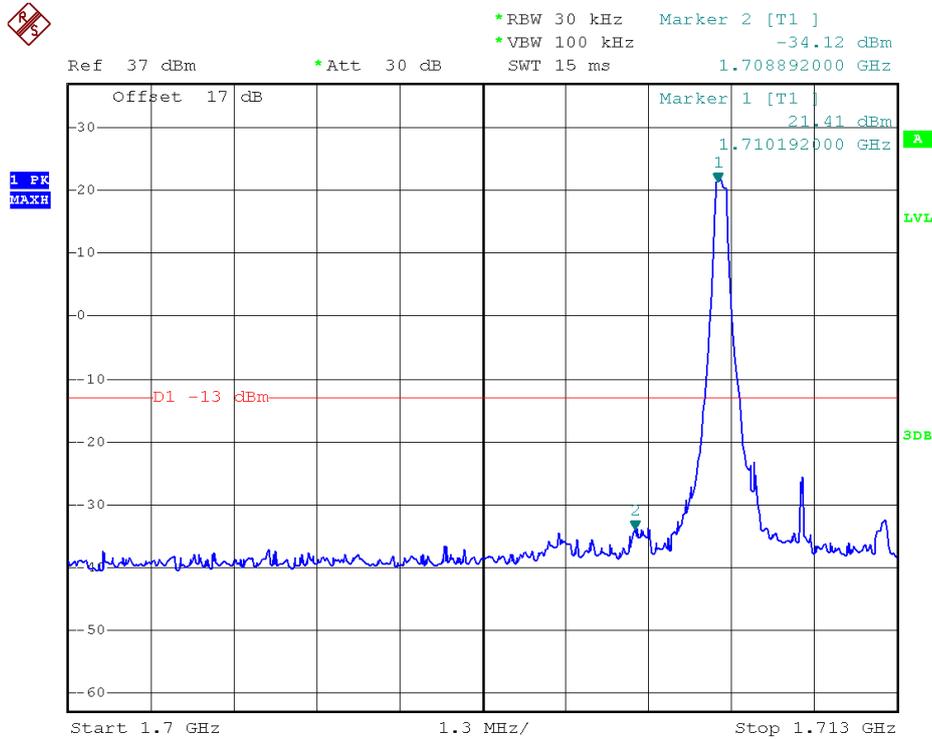
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



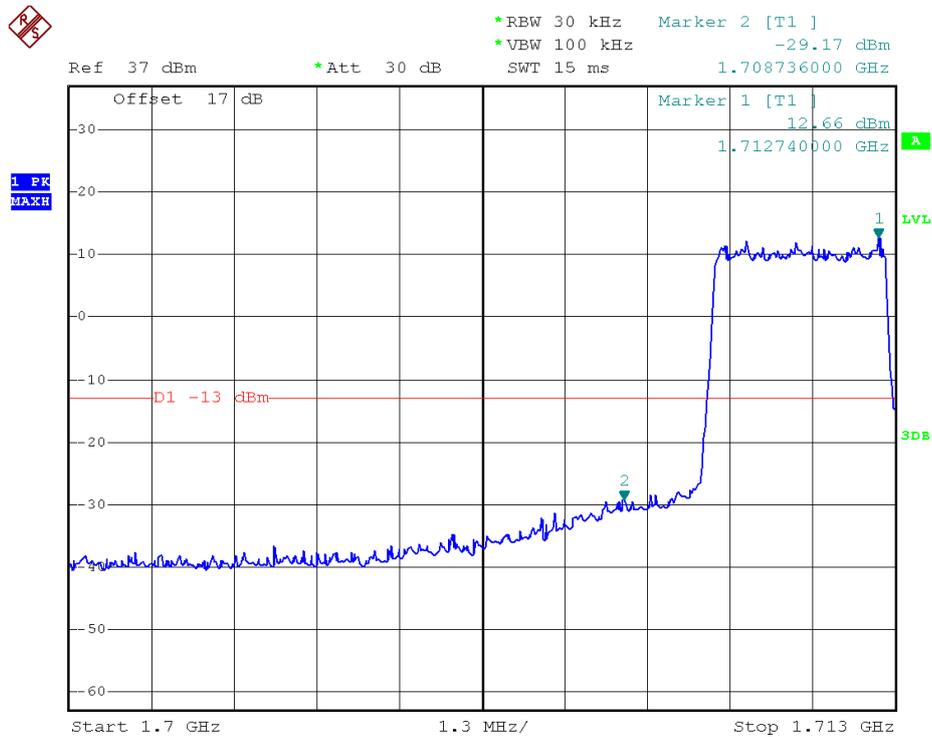
Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



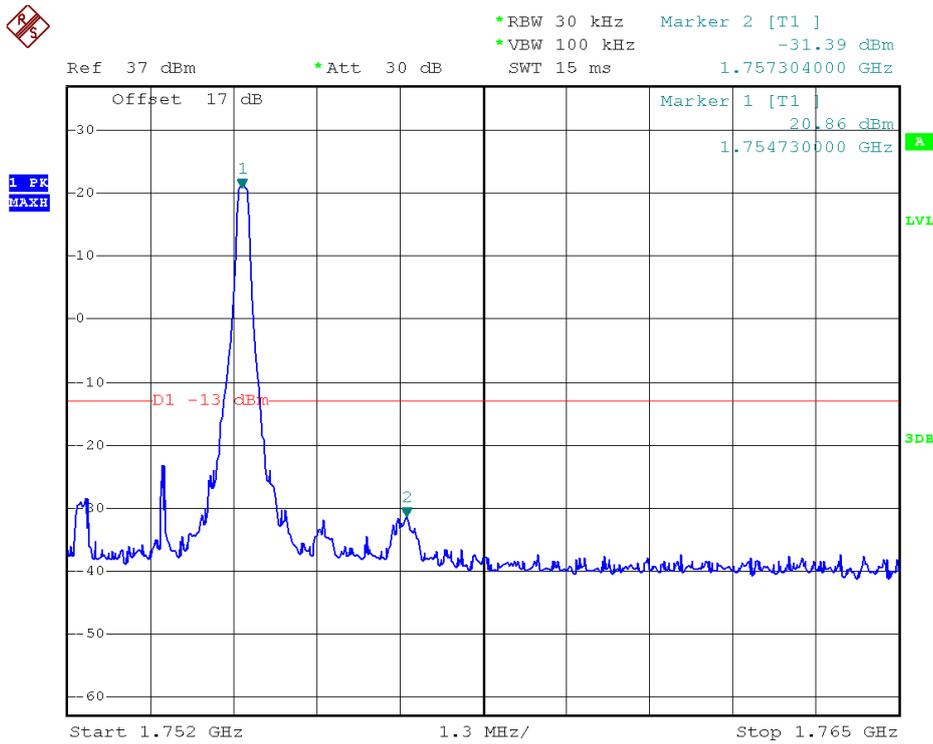
Band	LTE Band 4	Modulation	QPSK
Bandwidth	3MHz		



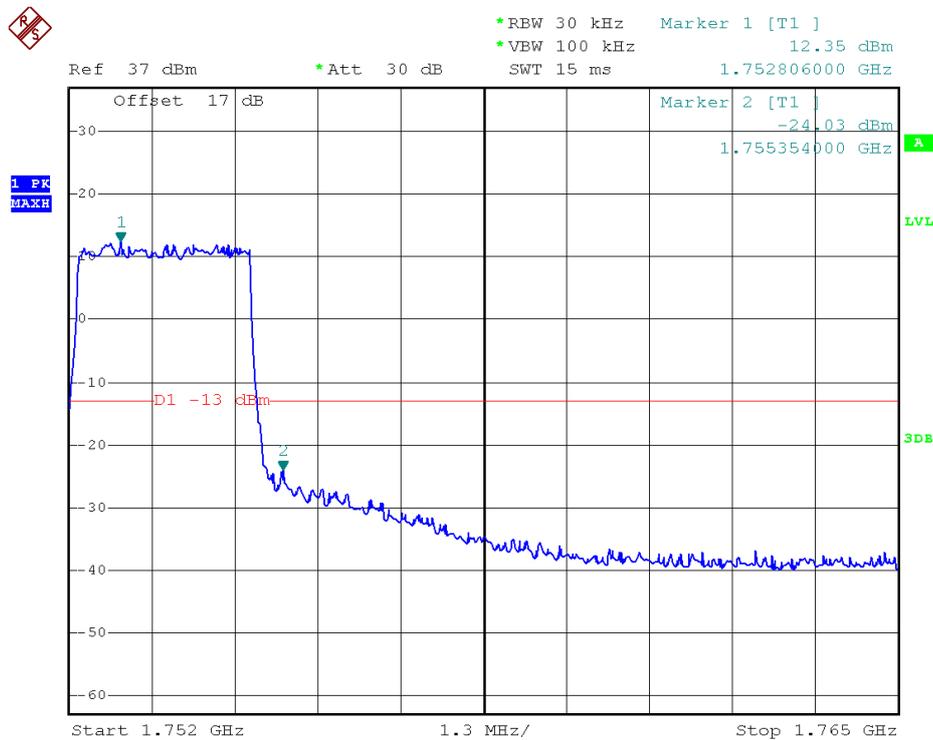
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



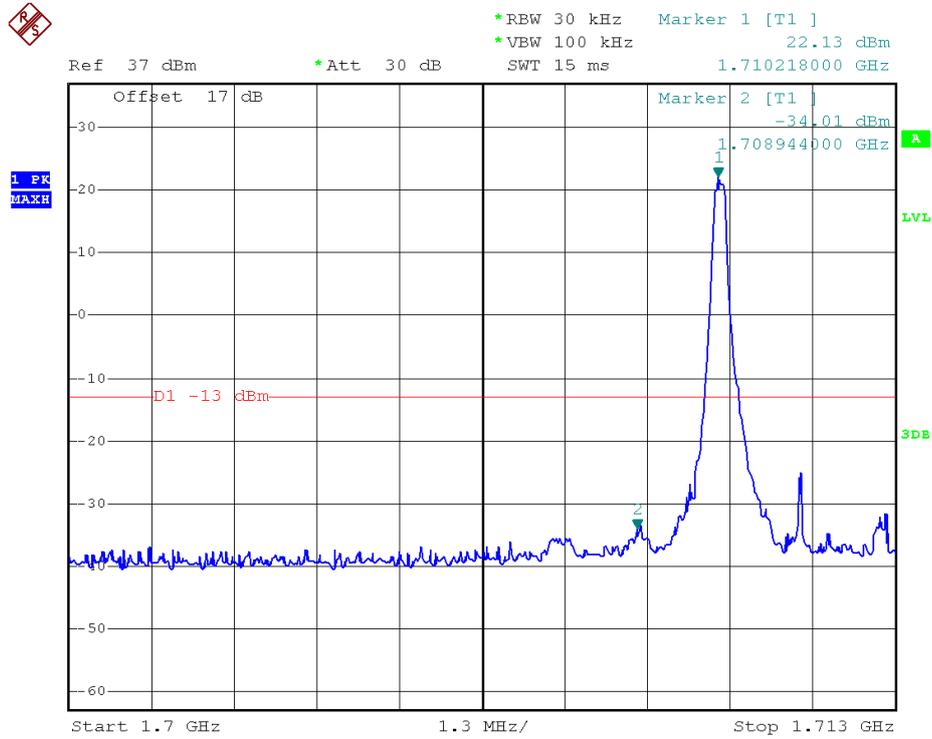
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



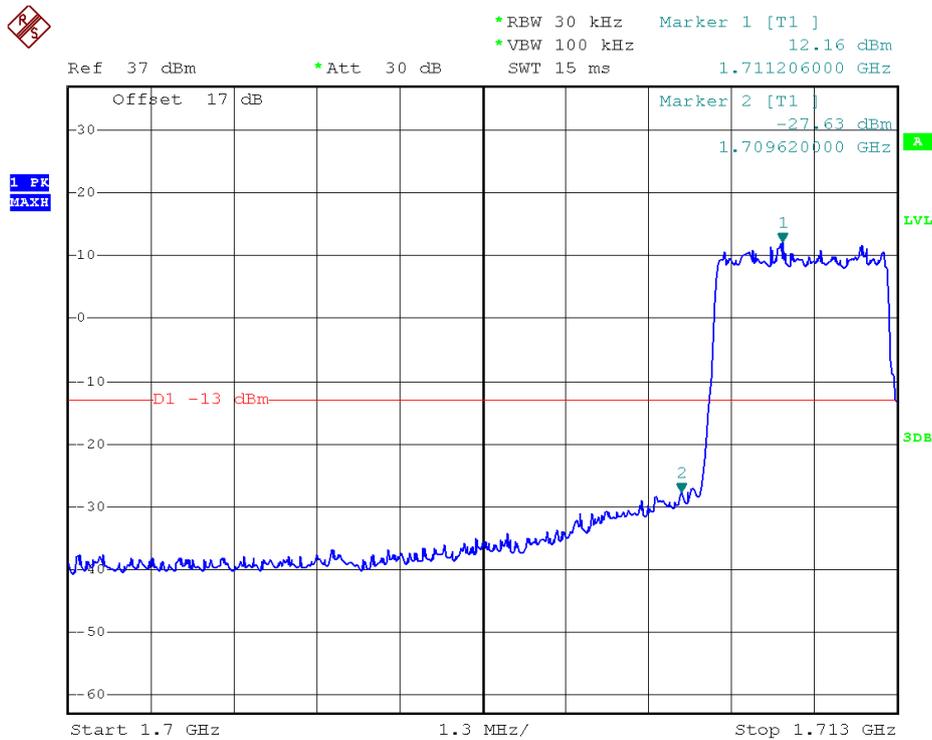
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



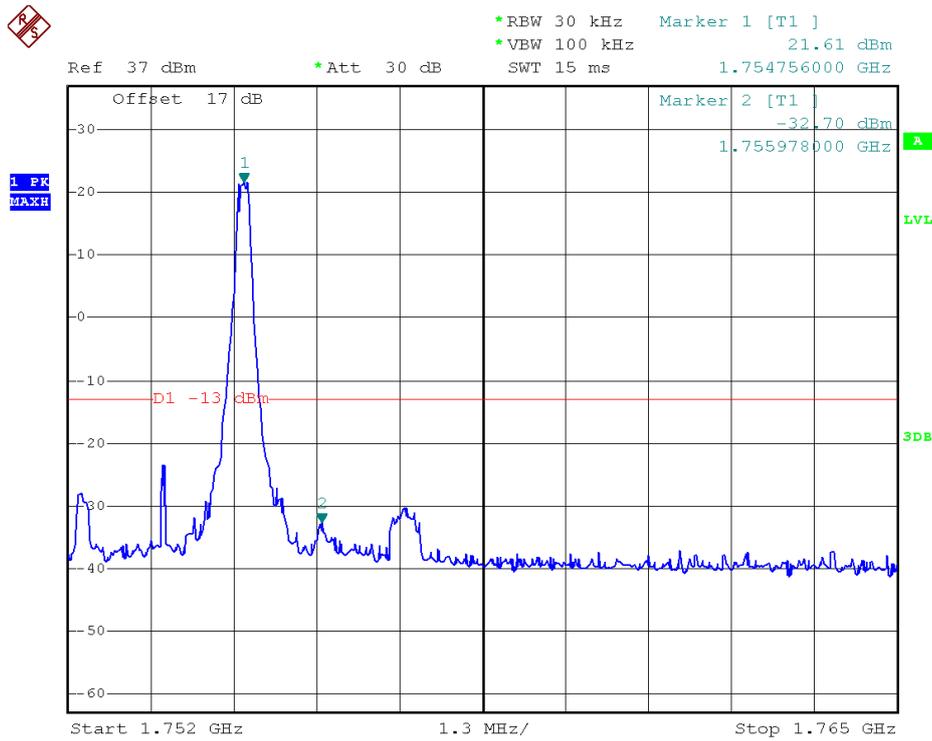
Band	LTE Band 4	Modulation	16QAM
Bandwidth	3MHz		



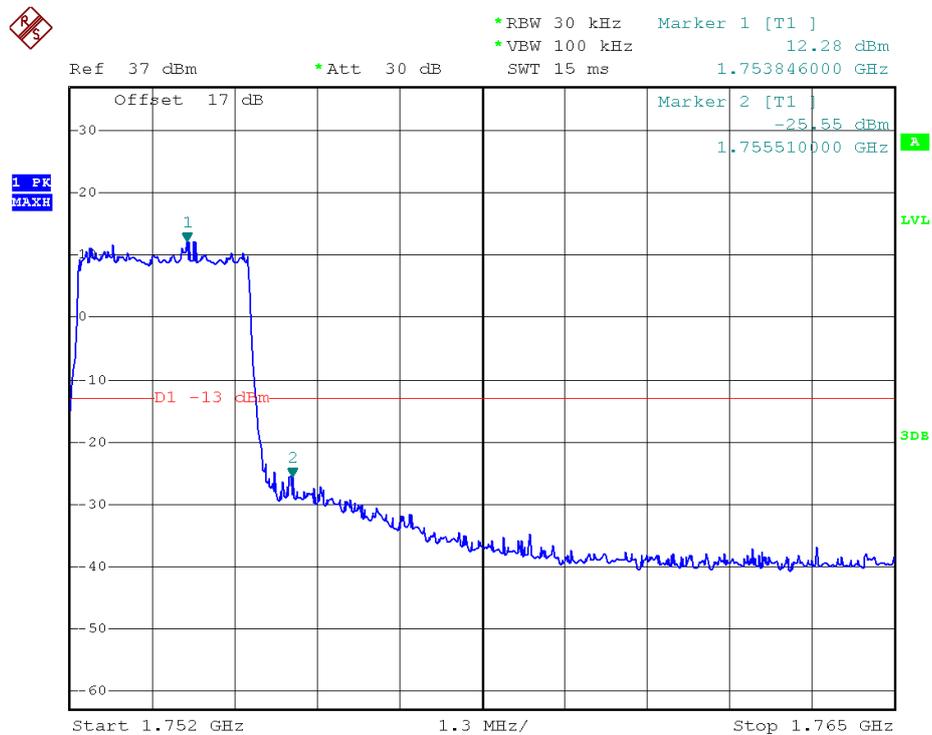
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



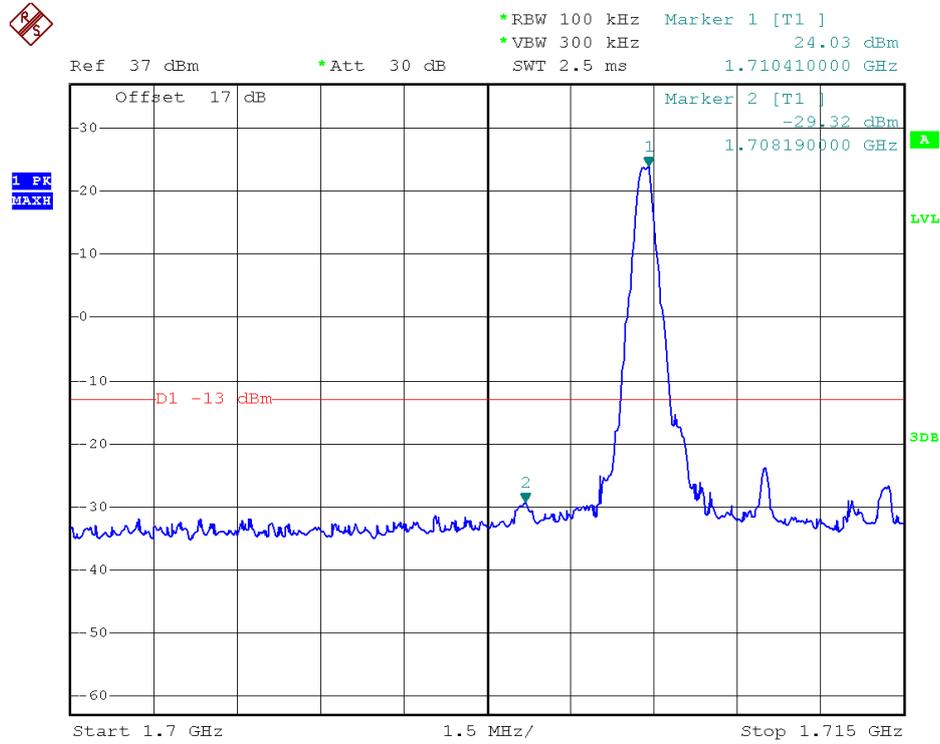
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



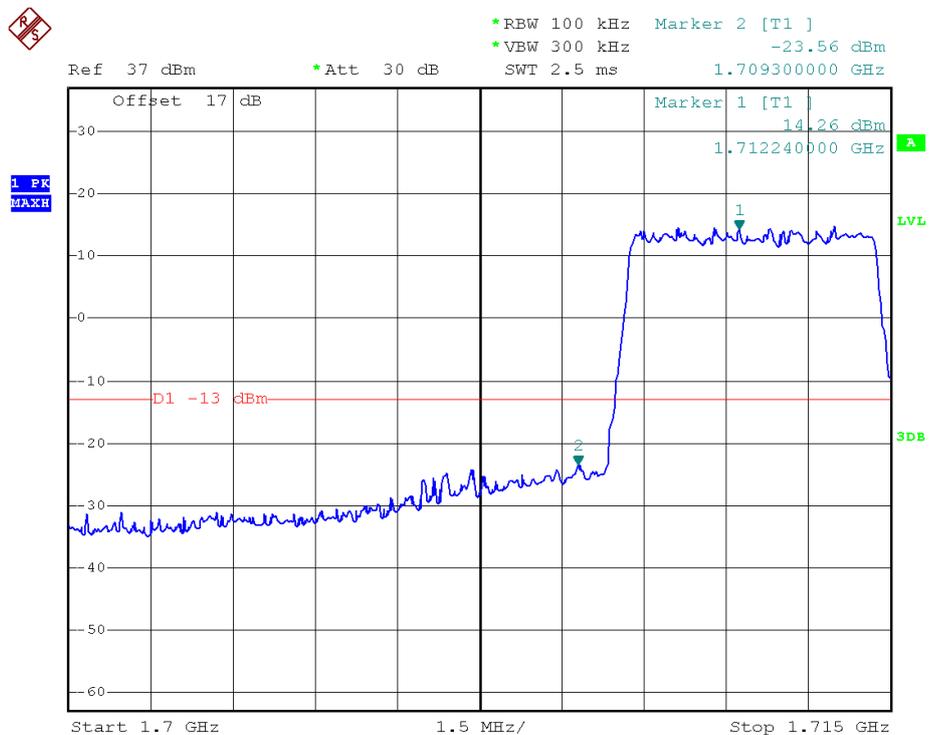
Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



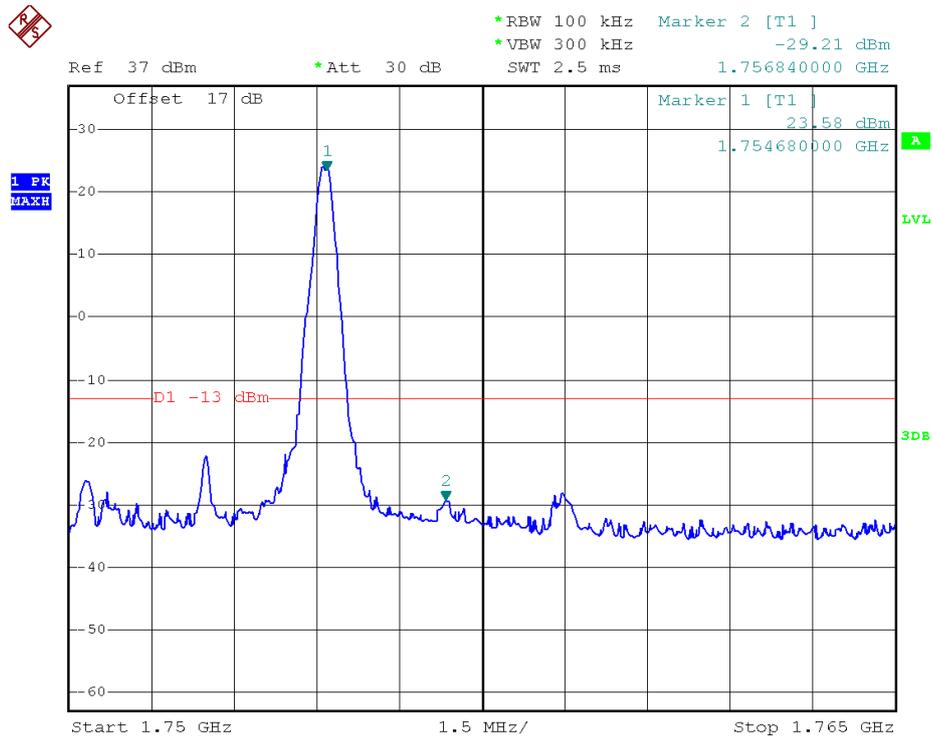
Band	LTE Band 4	Modulation	QPSK
Bandwidth	5MHz		



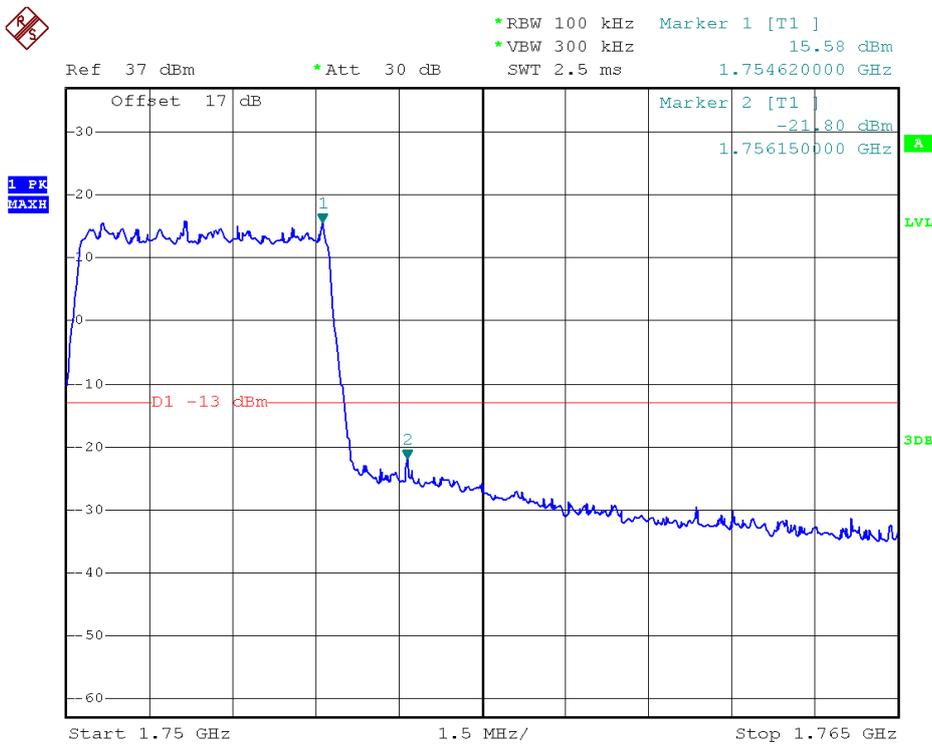
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



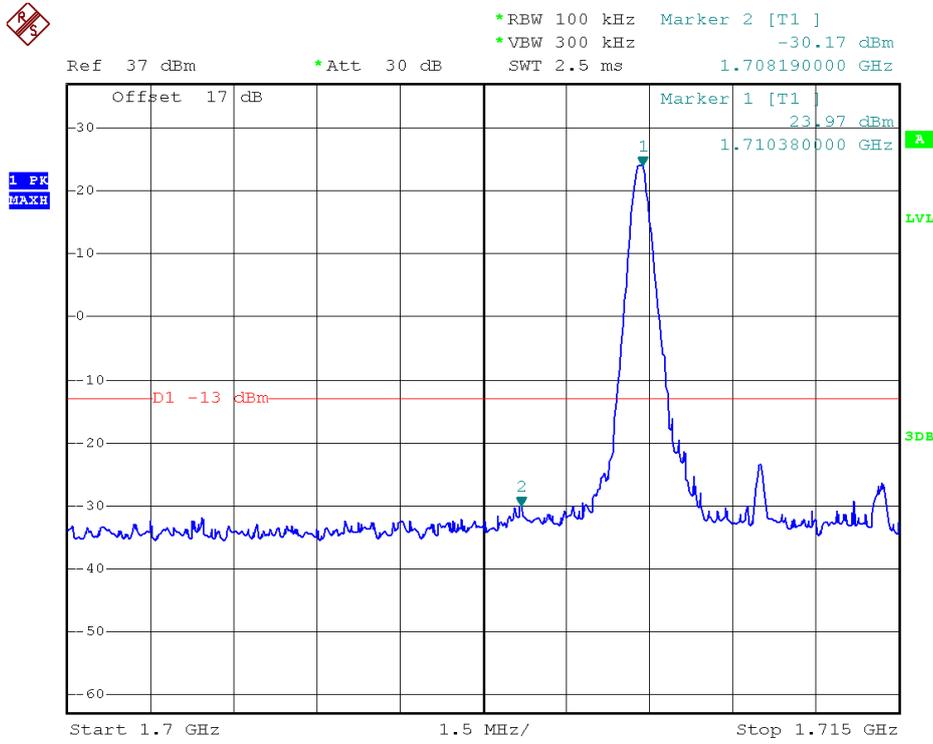
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



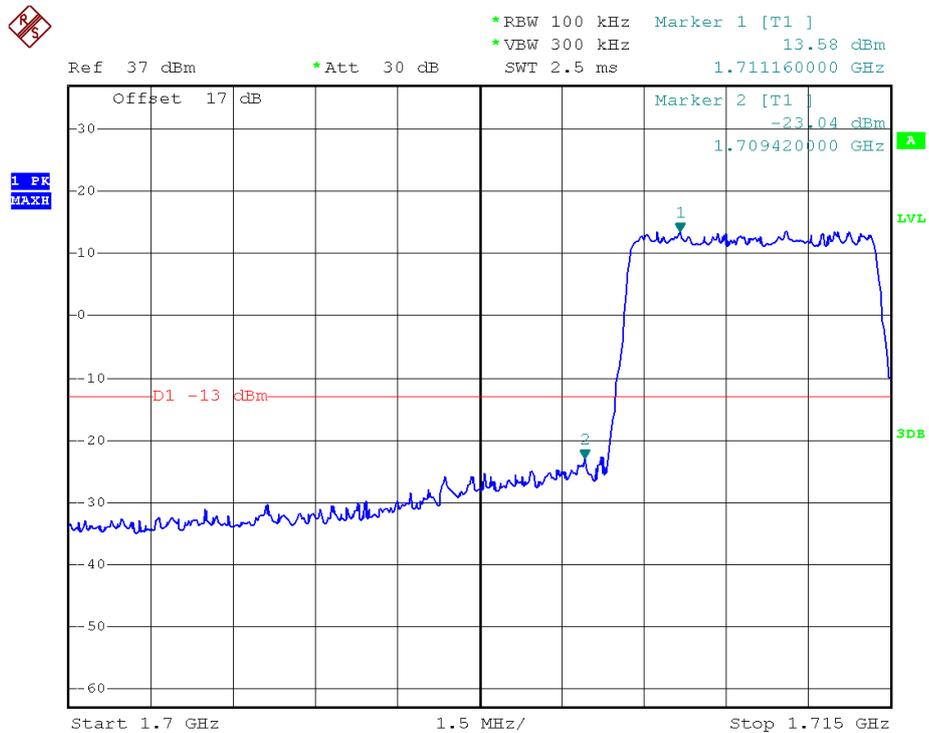
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



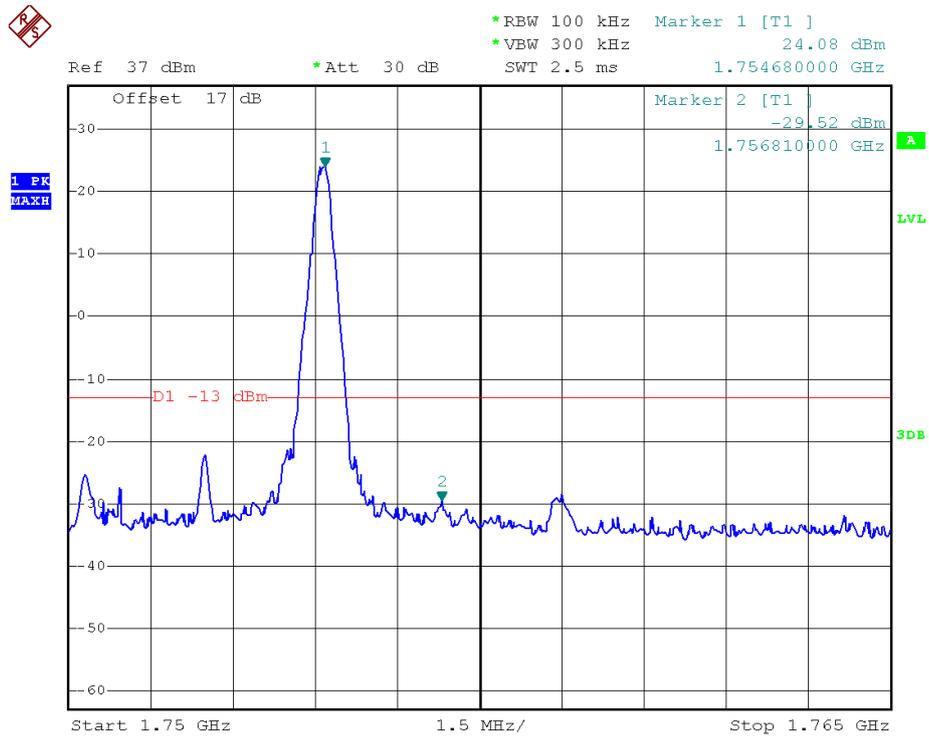
Band	LTE Band 4	Modulation	16QAM
Bandwidth	5MHz		



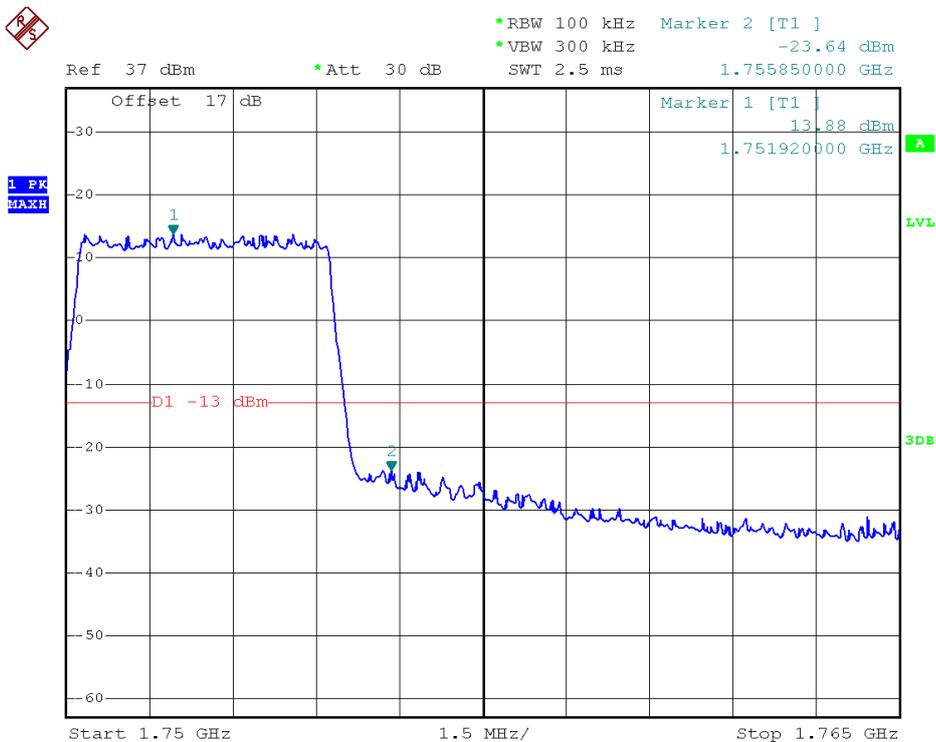
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



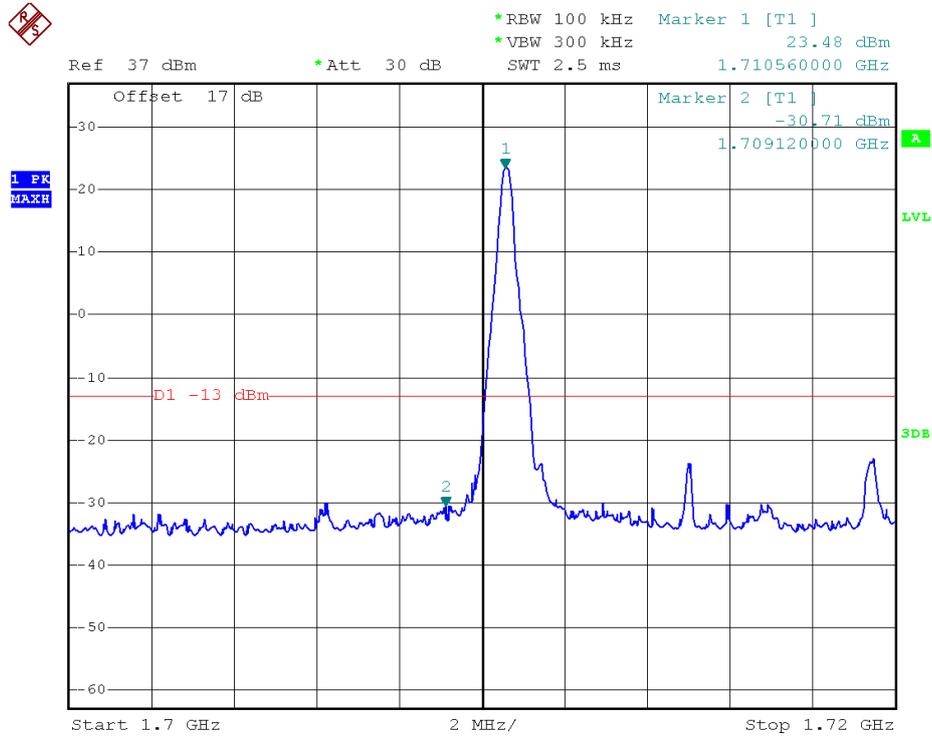
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



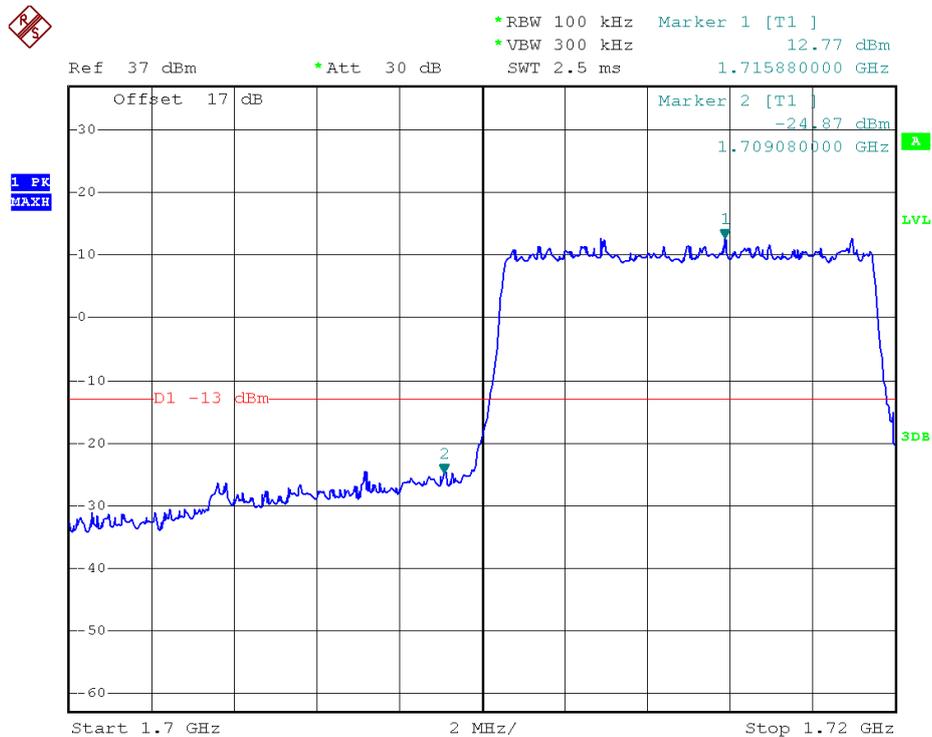
Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



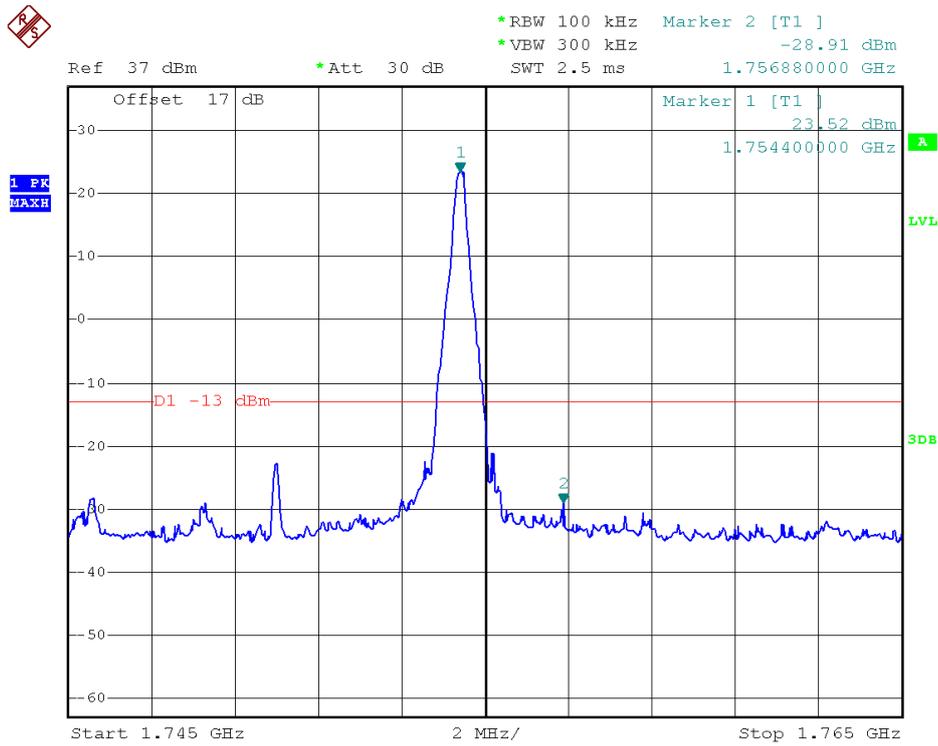
Band	LTE Band 4	Modulation	QPSK
Bandwidth	10MHz		



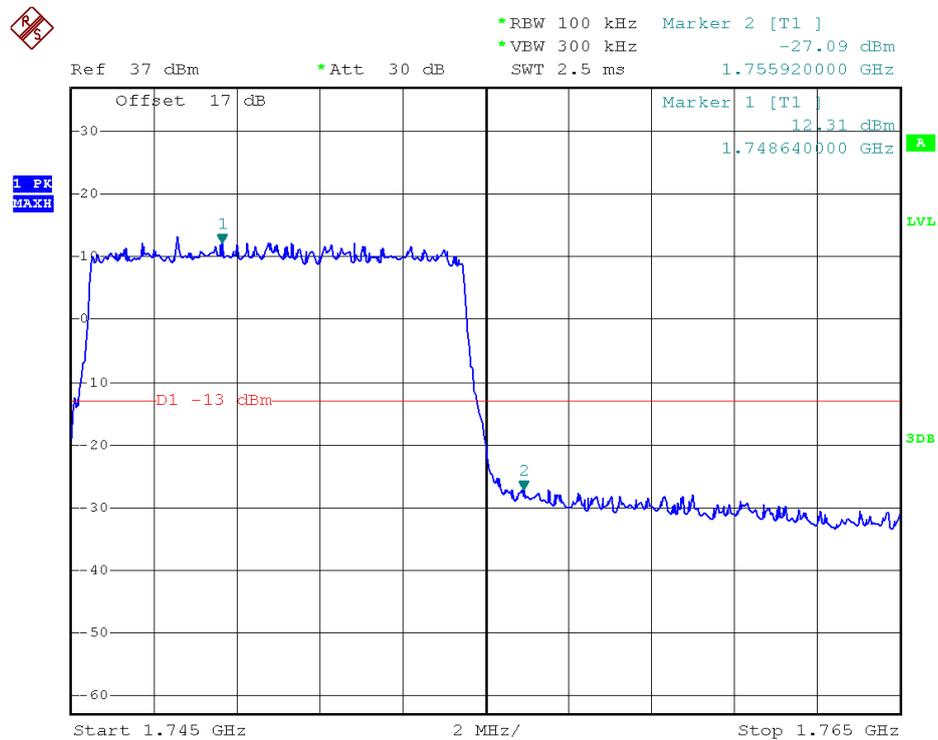
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



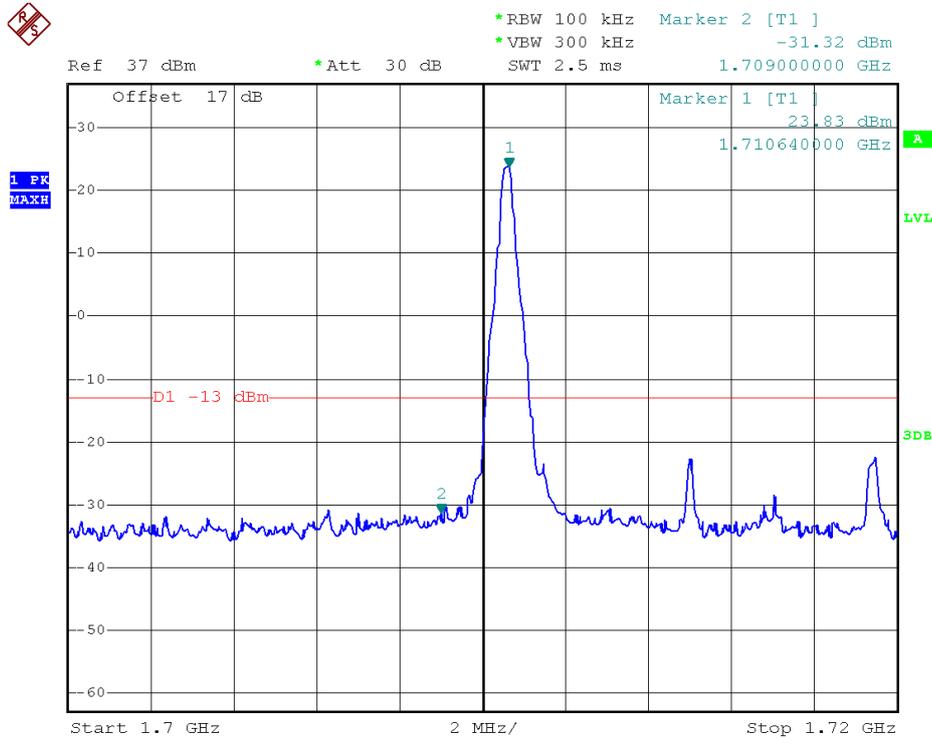
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



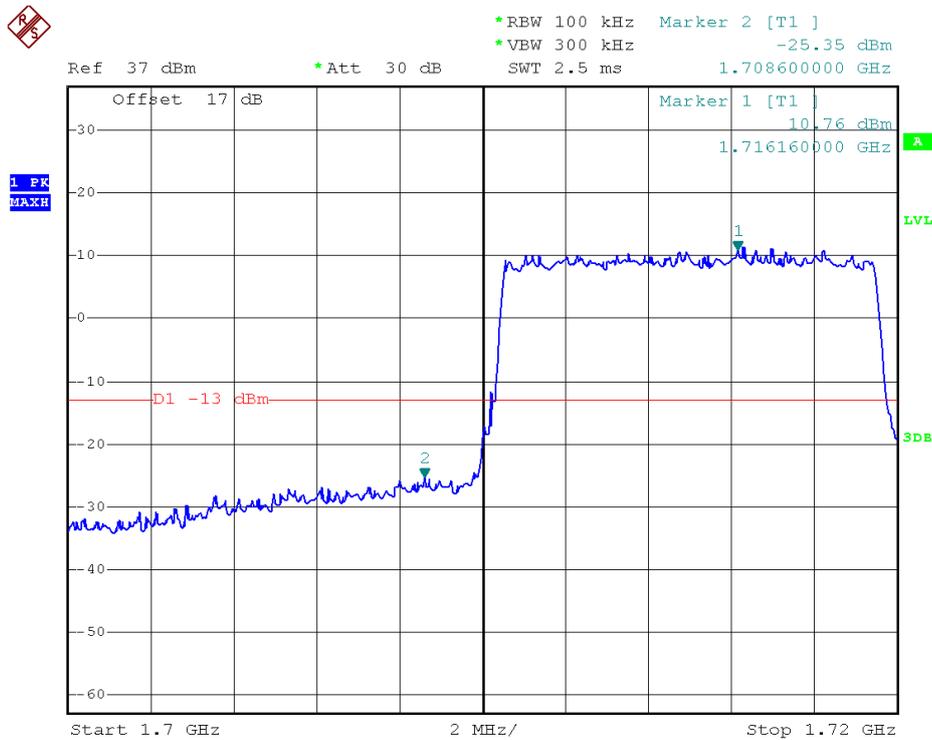
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



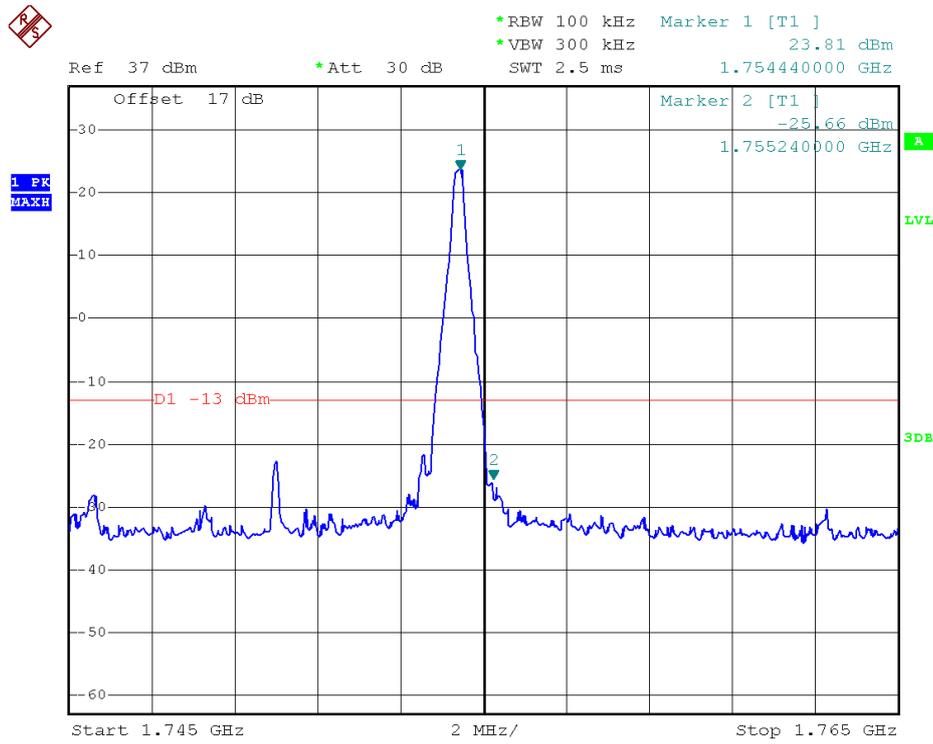
Band	LTE Band 4	Modulation	16QAM
Bandwidth	10MHz		



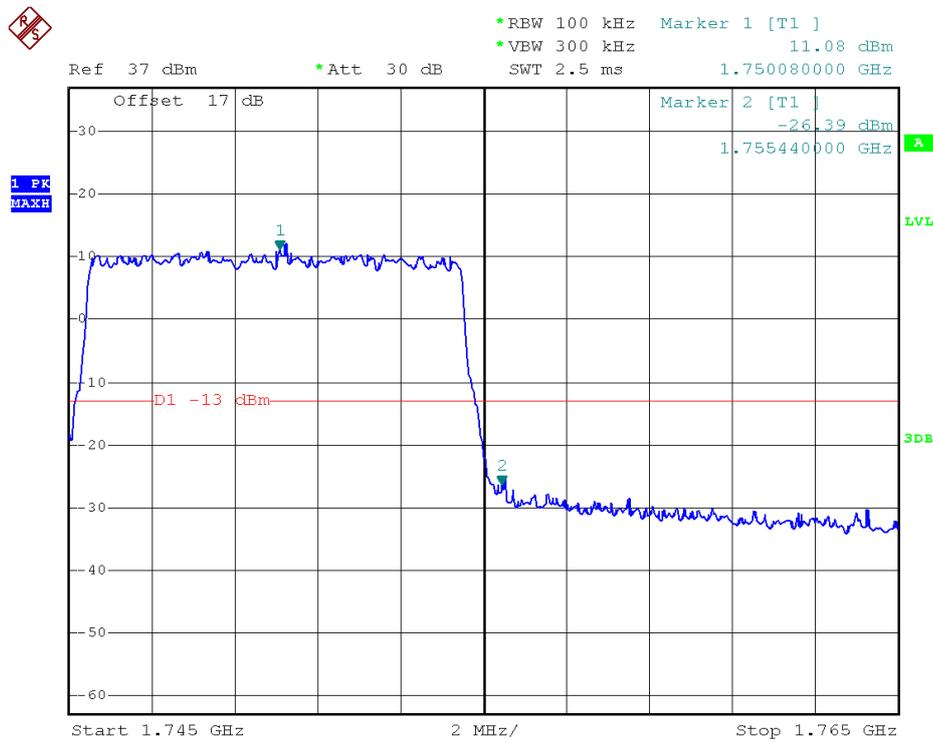
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



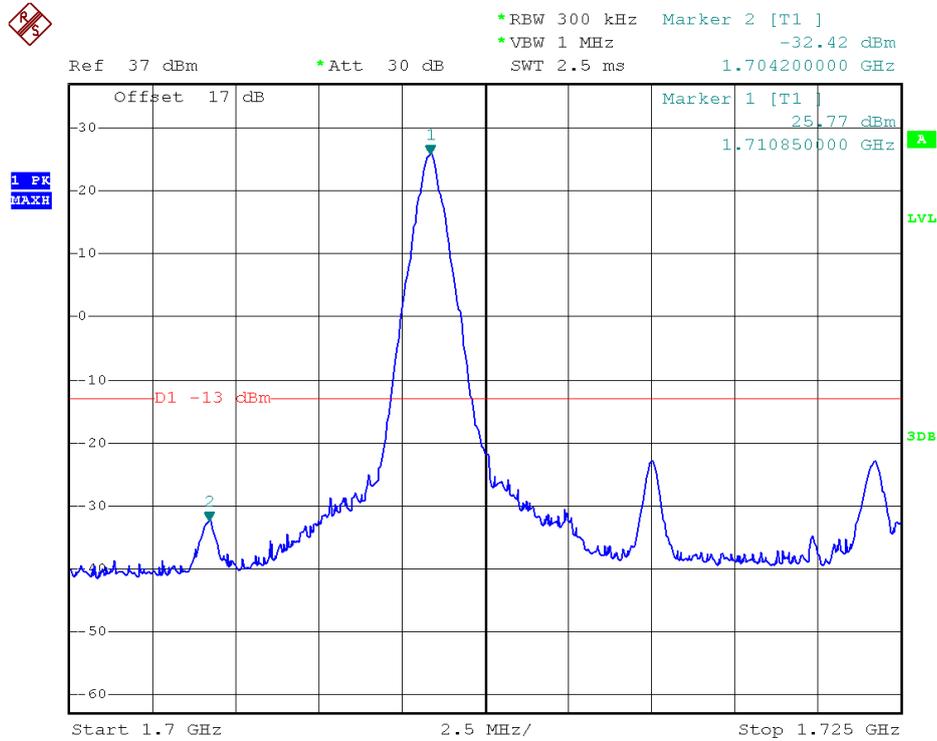
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



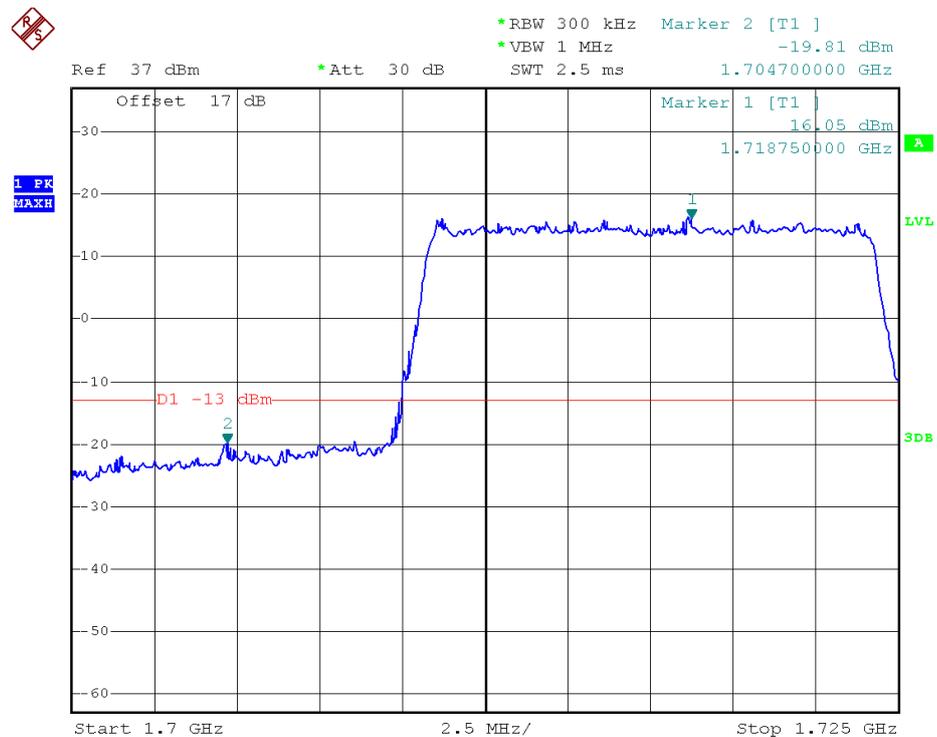
Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



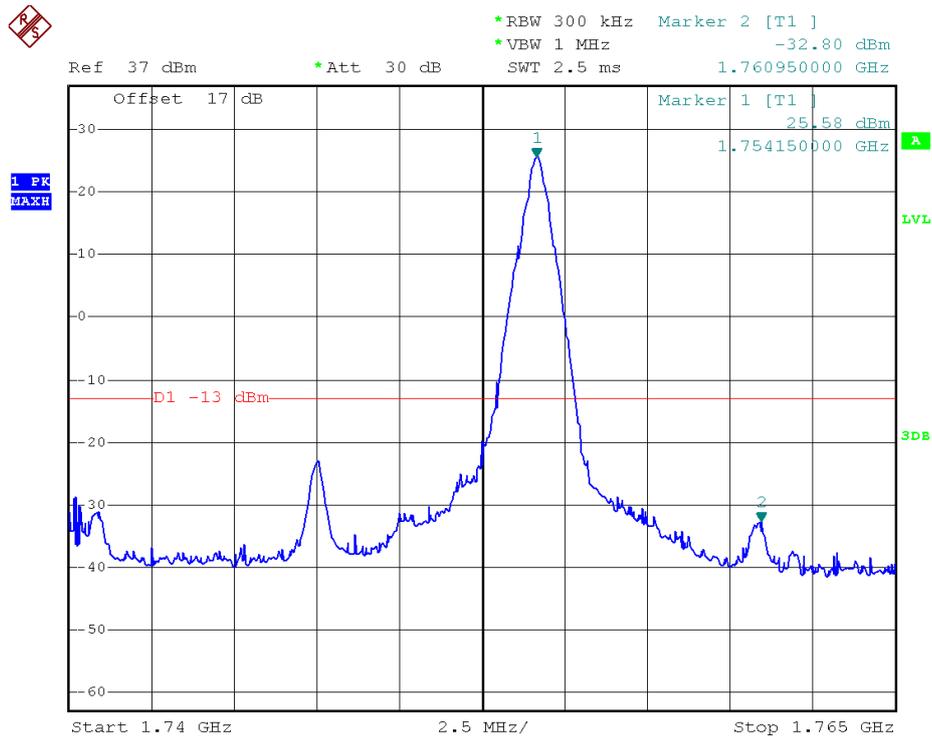
Band	LTE Band 4	Modulation	QPSK
Bandwidth	15MHz		



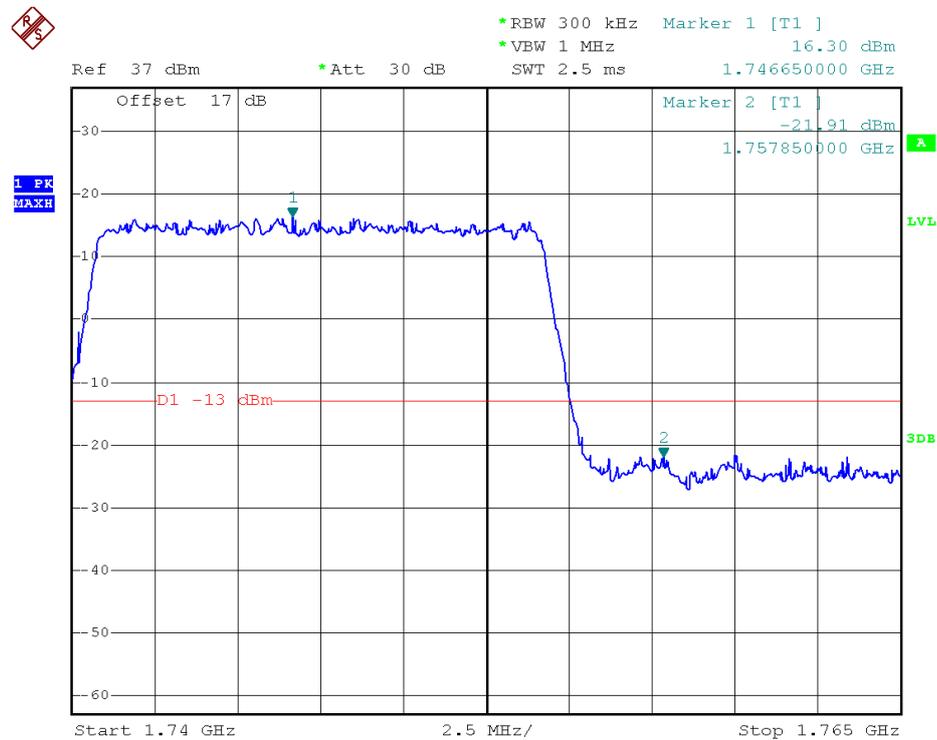
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



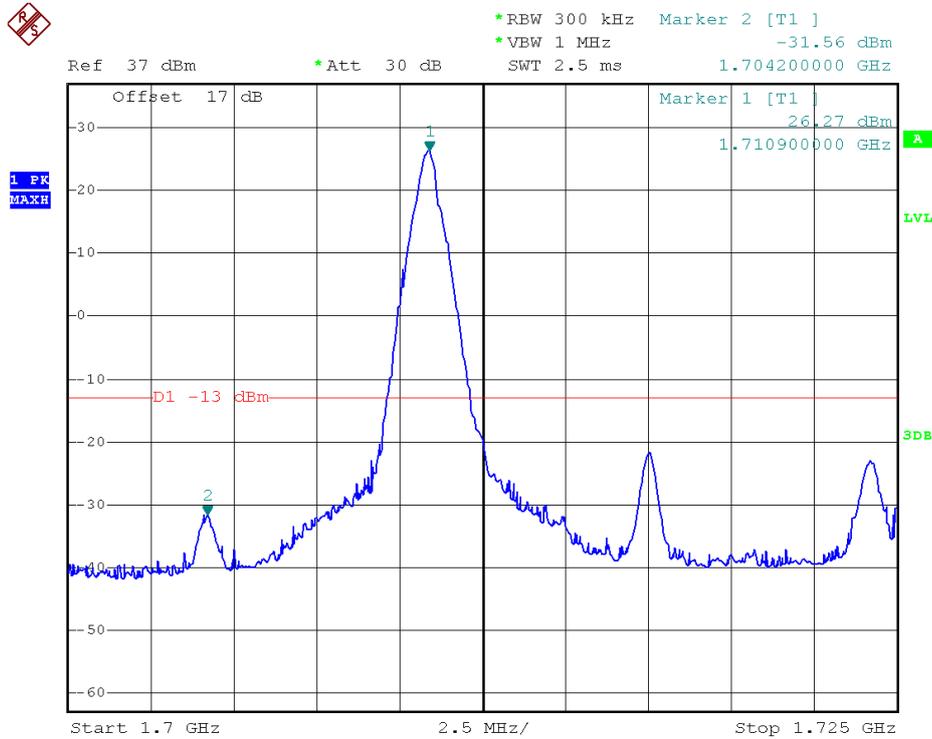
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



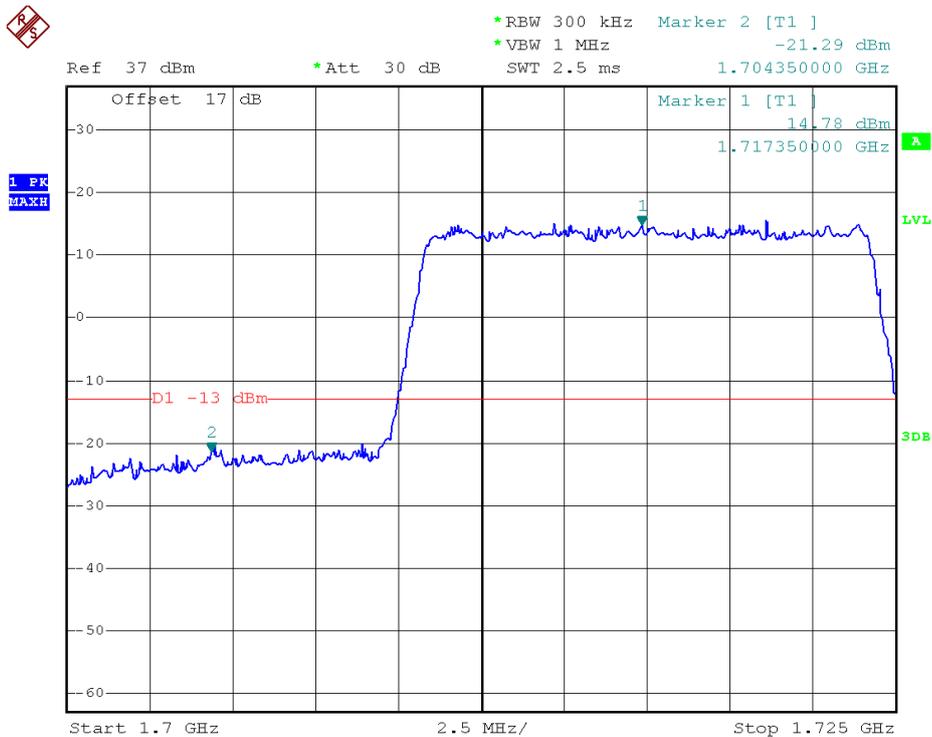
Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0



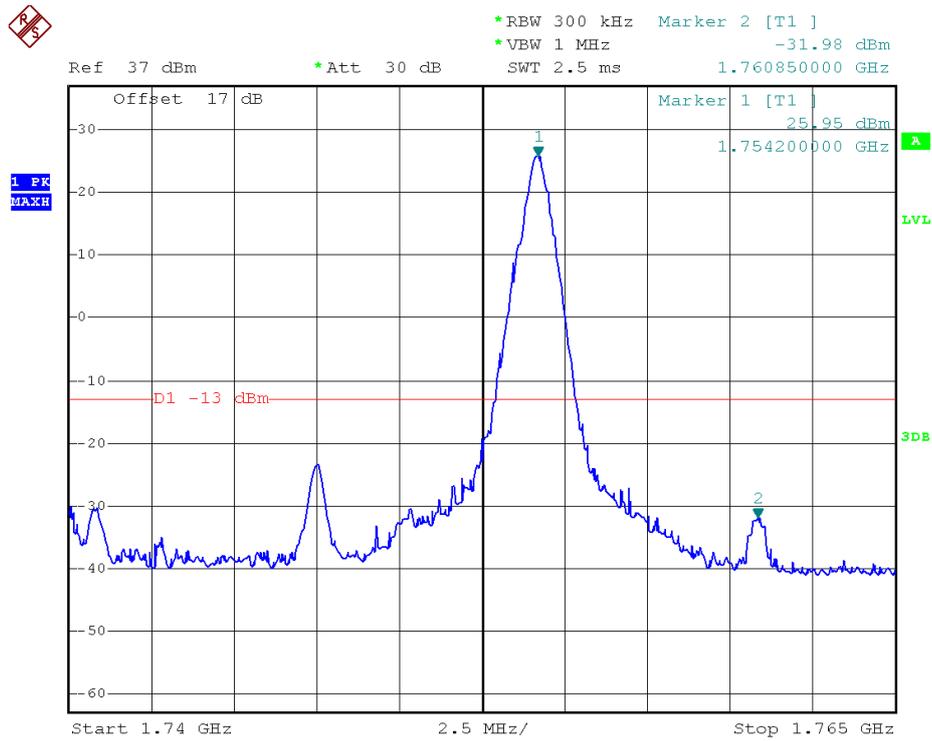
Band	LTE Band 4	Modulation	16QAM
Bandwidth	15MHz		



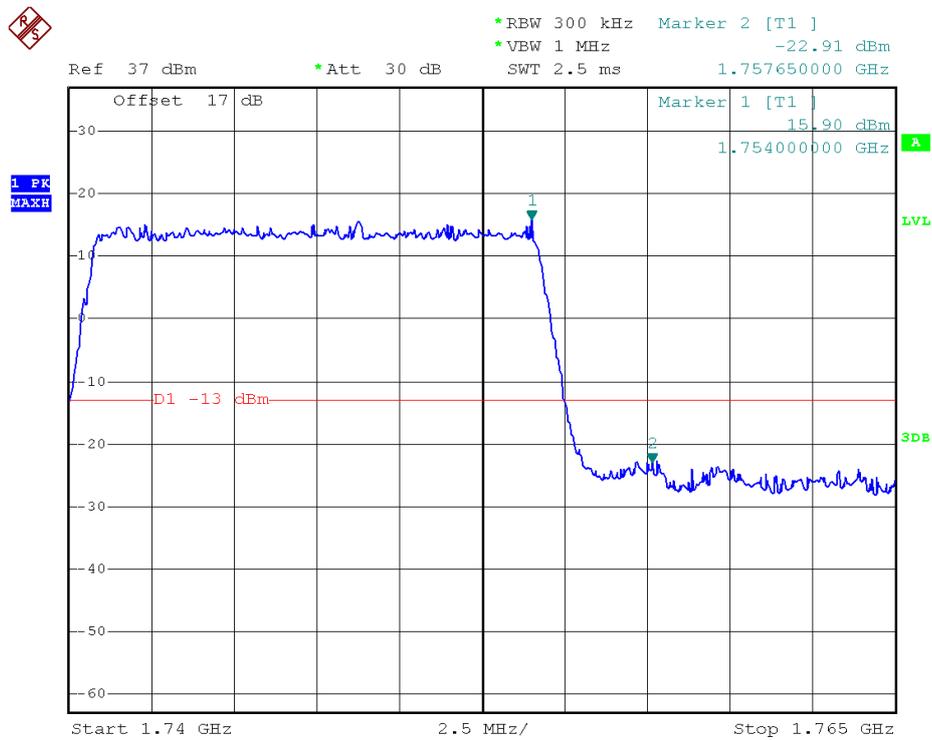
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



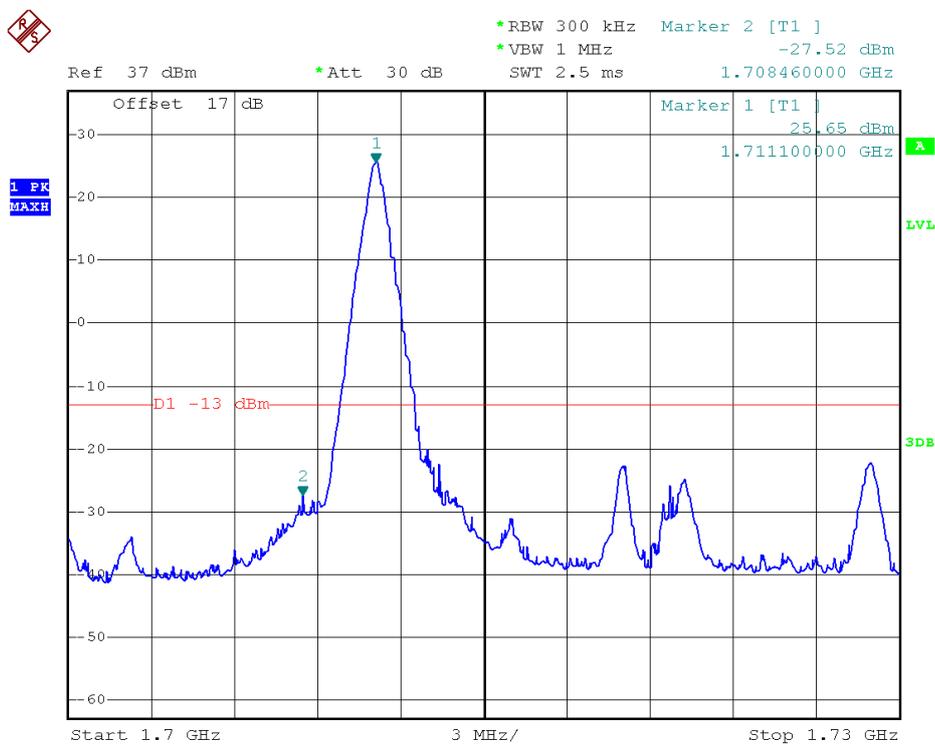
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



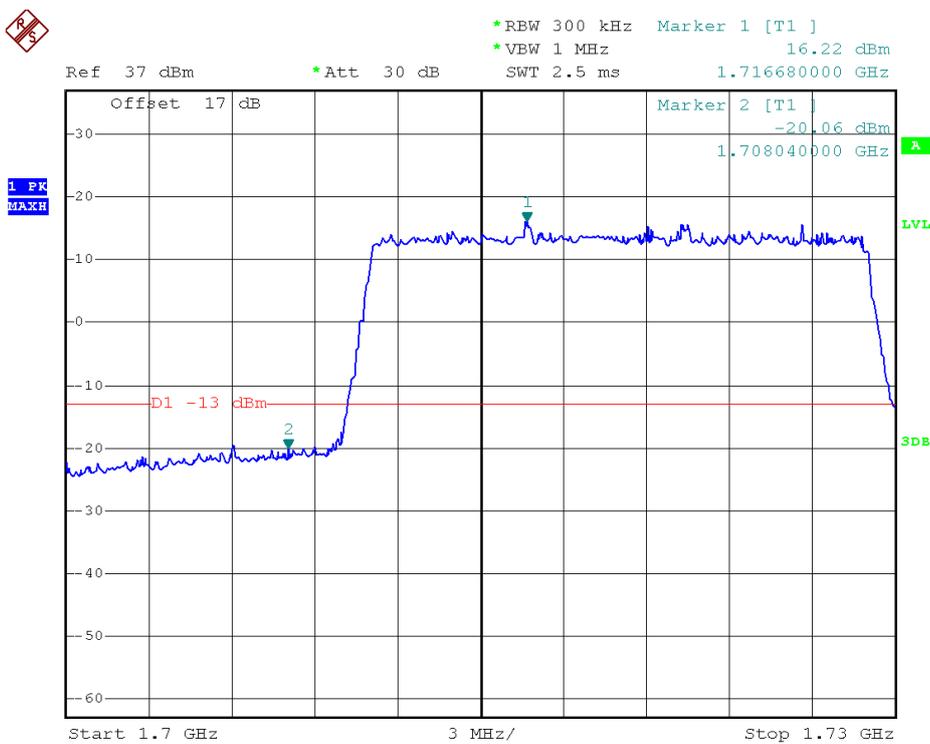
Higher Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



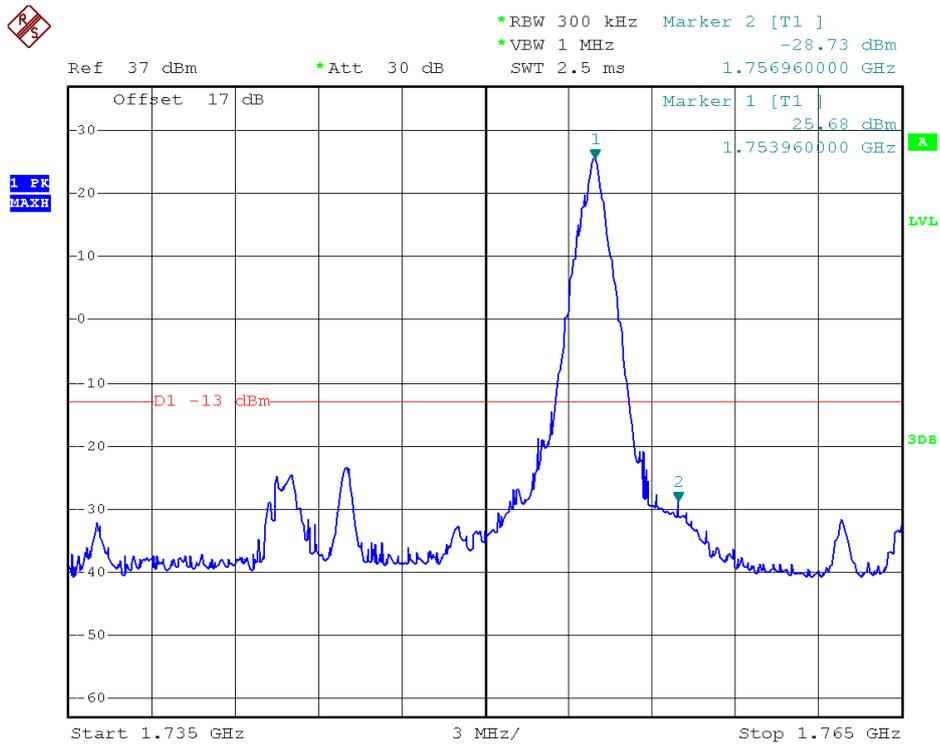
Band	LTE Band 4	Modulation	QPSK
Bandwidth	20MHz		



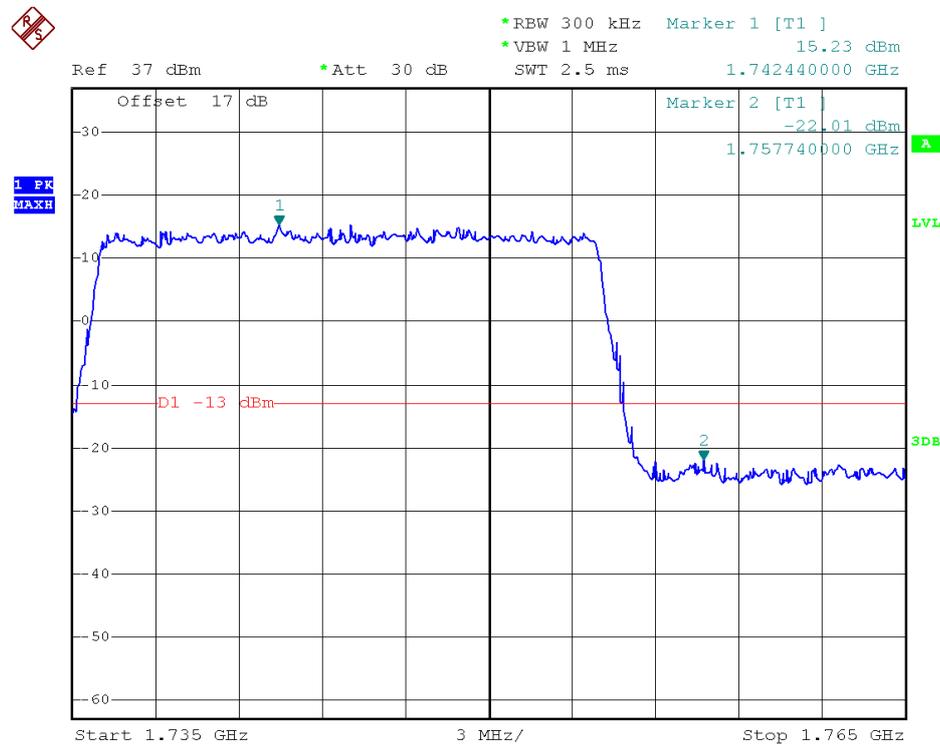
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



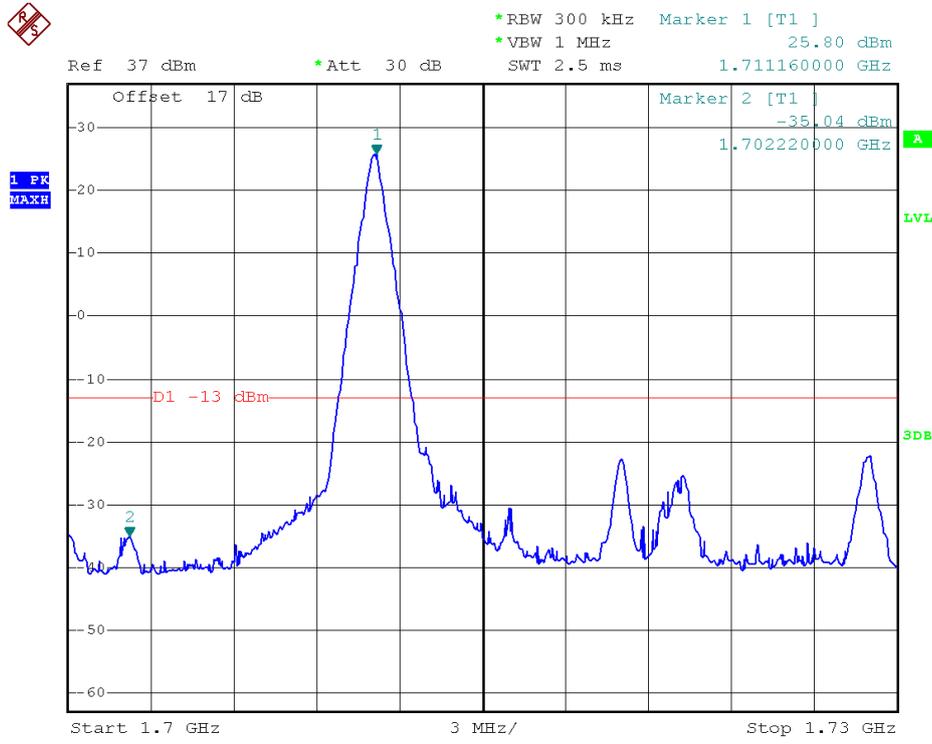
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



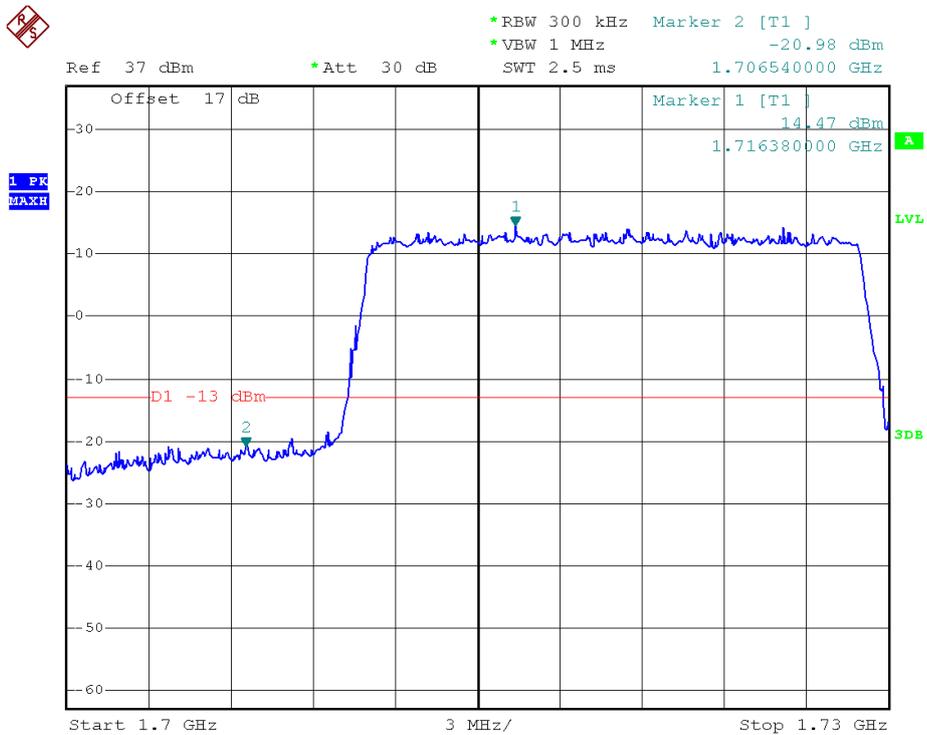
Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0



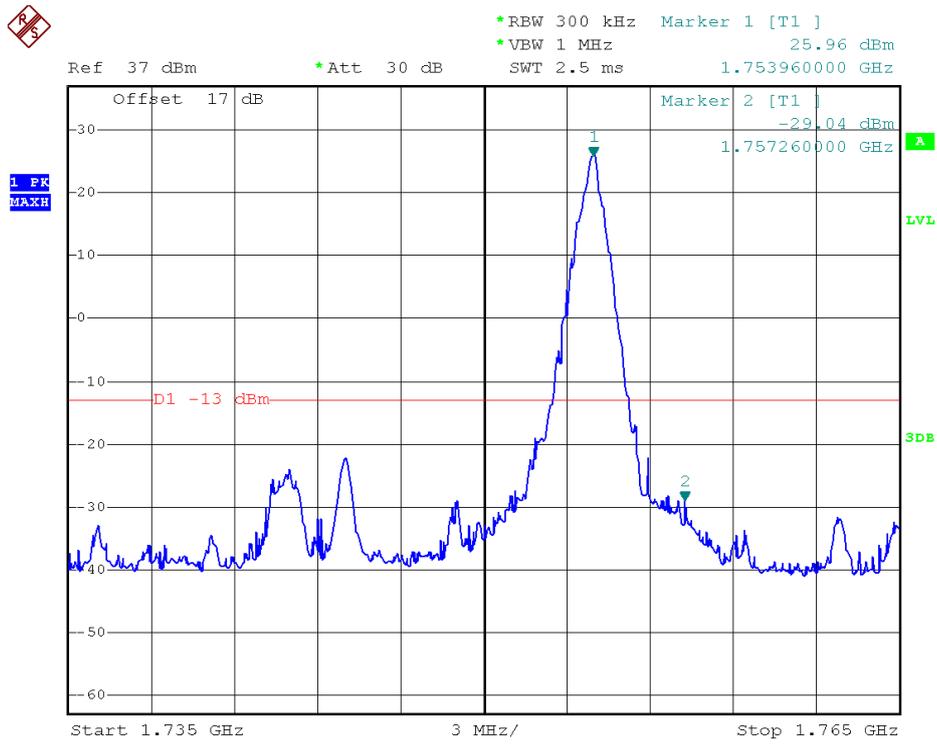
Band	LTE Band 4	Modulation	16QAM
Bandwidth	20MHz		



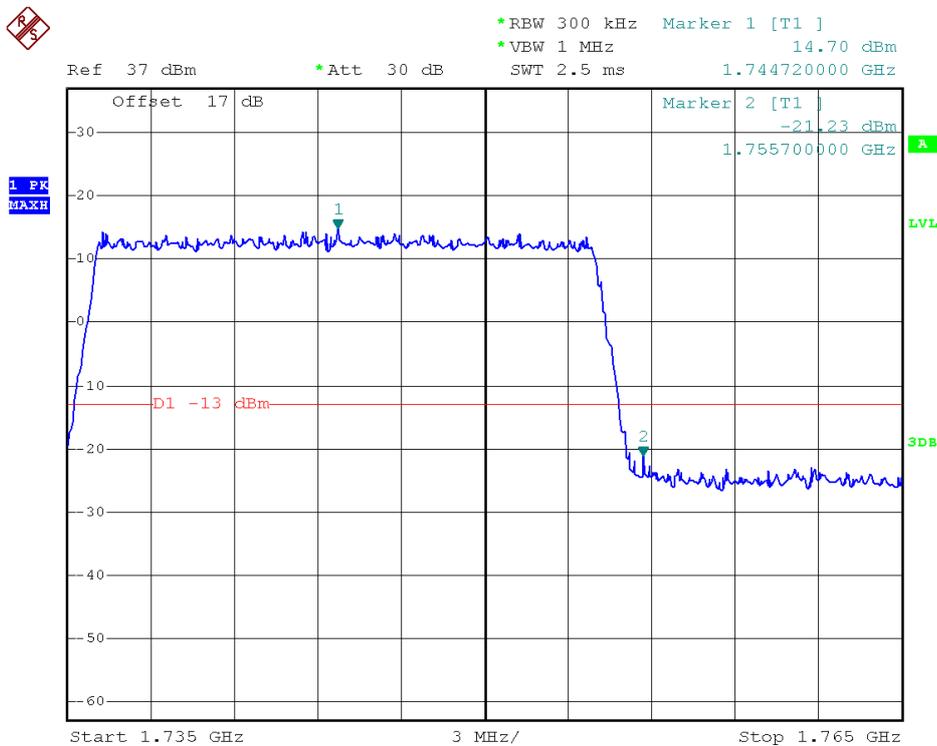
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



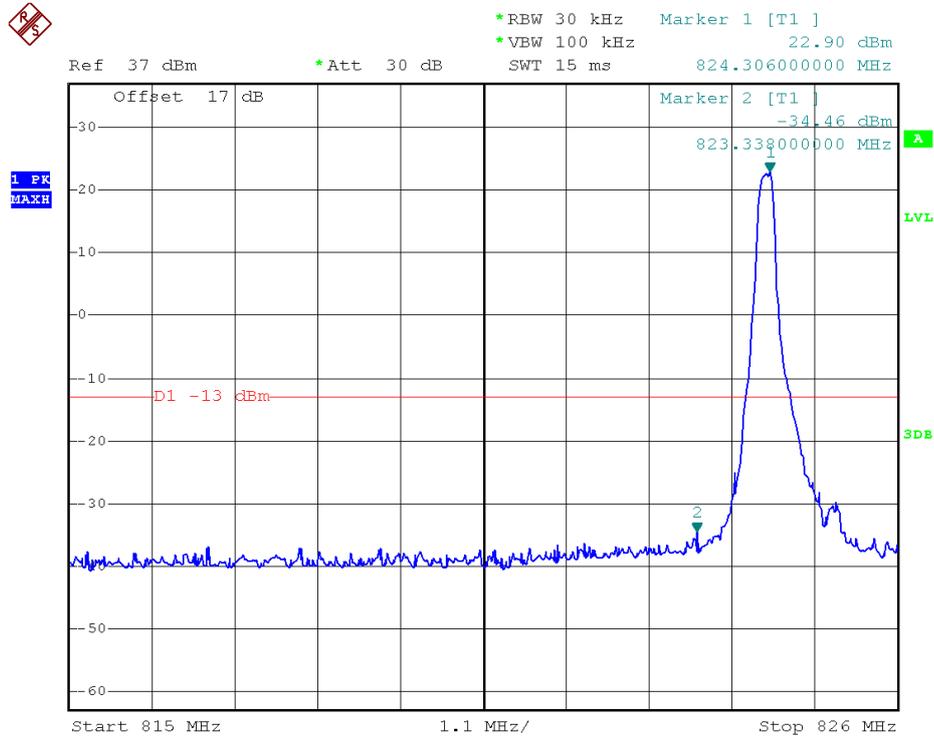
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



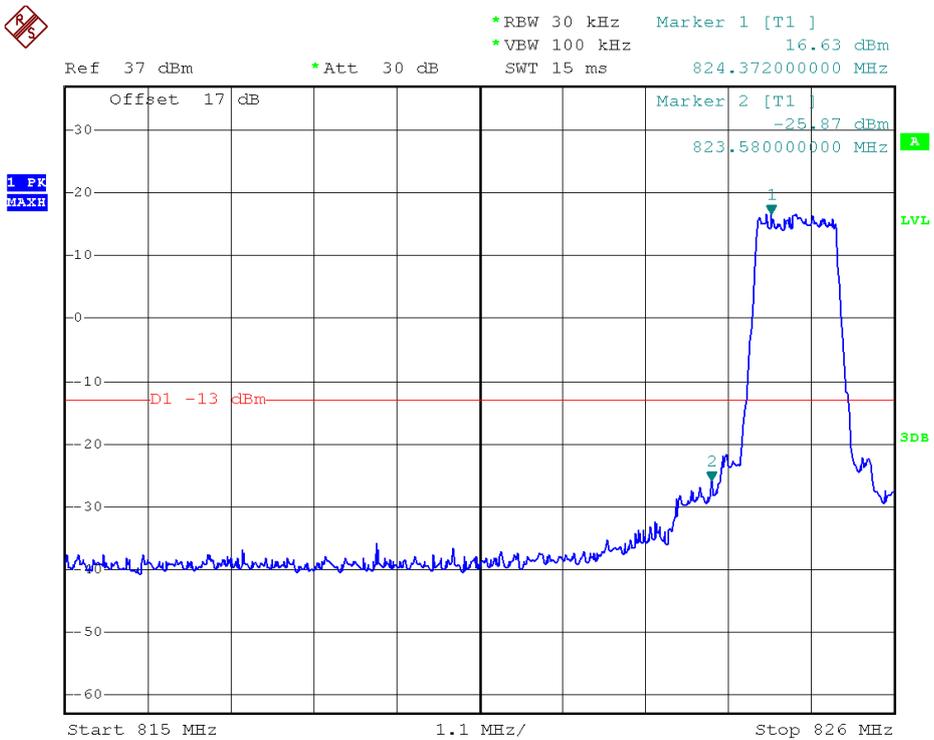
Higher Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



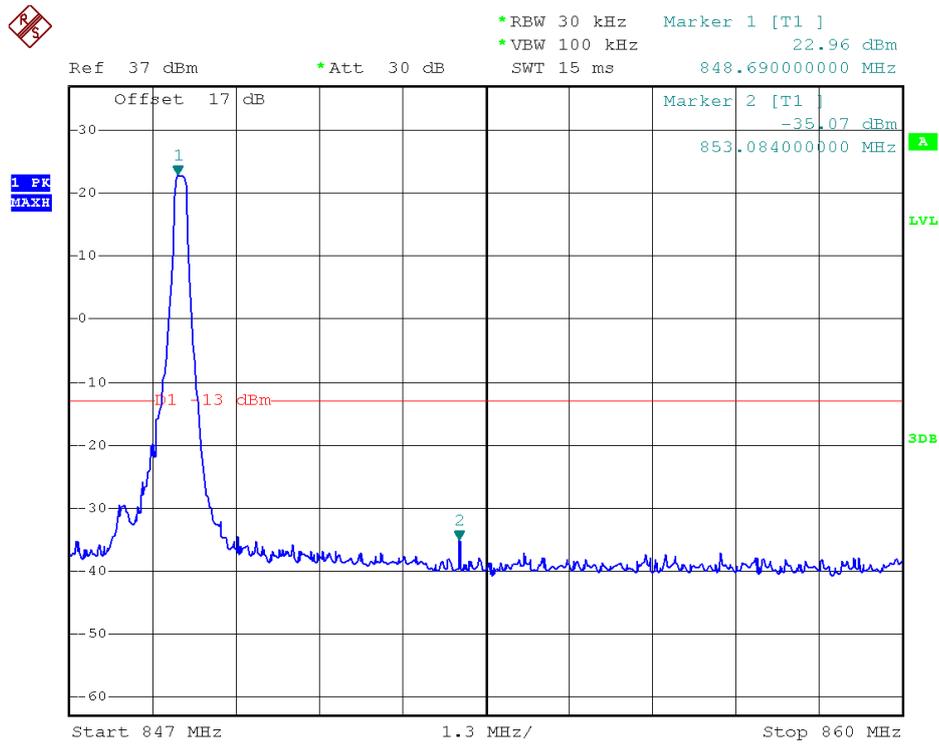
Band	LTE Band 5	Modulation	QPSK
Bandwidth	1.4MHz		



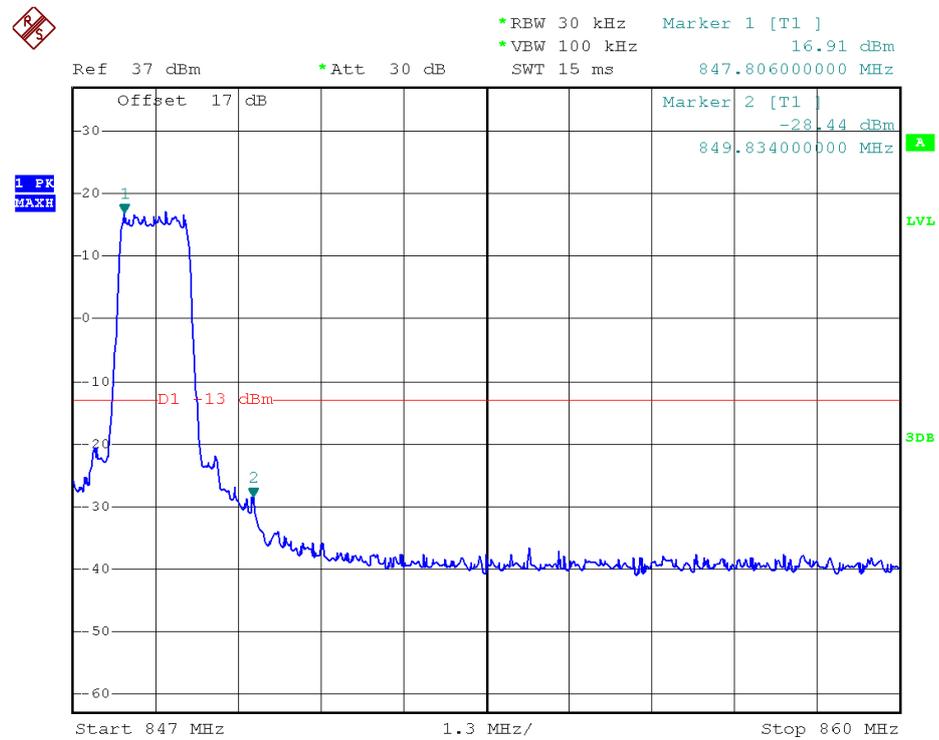
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



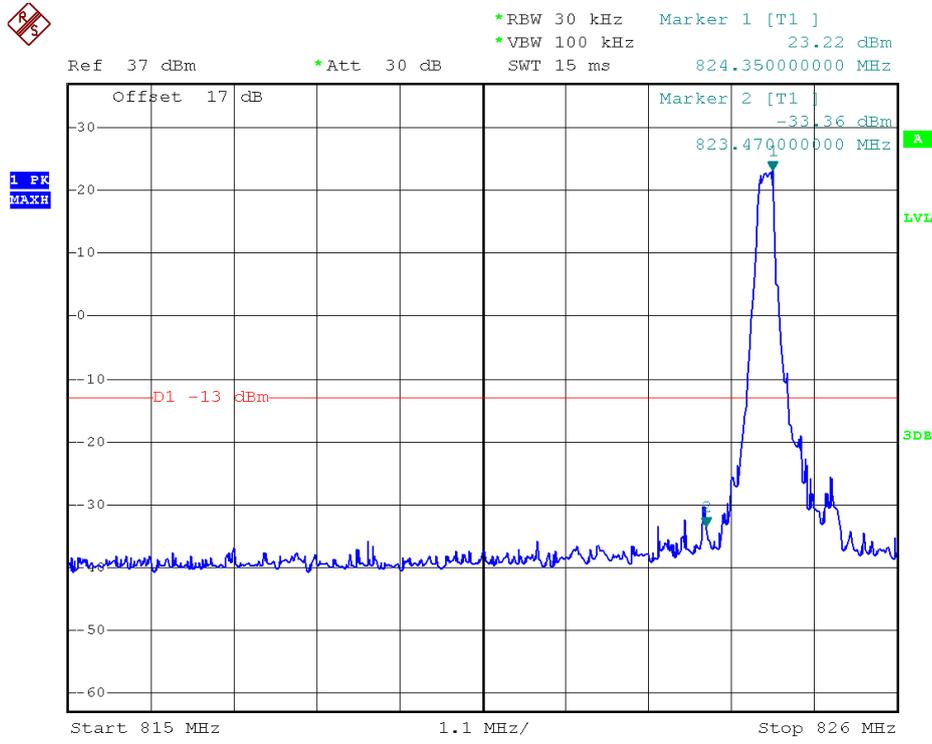
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



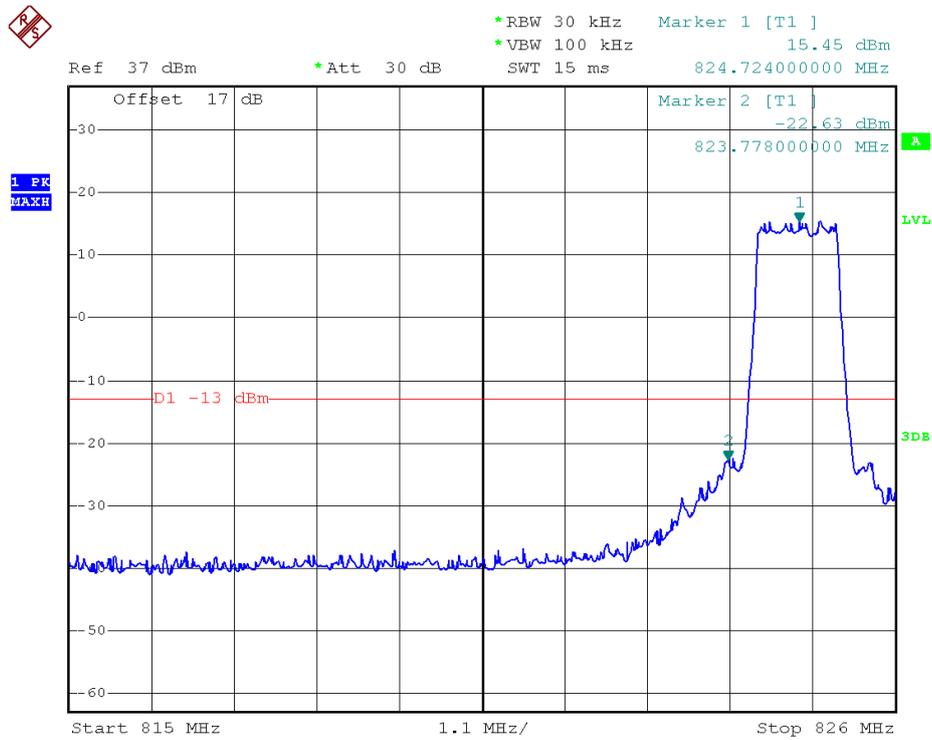
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



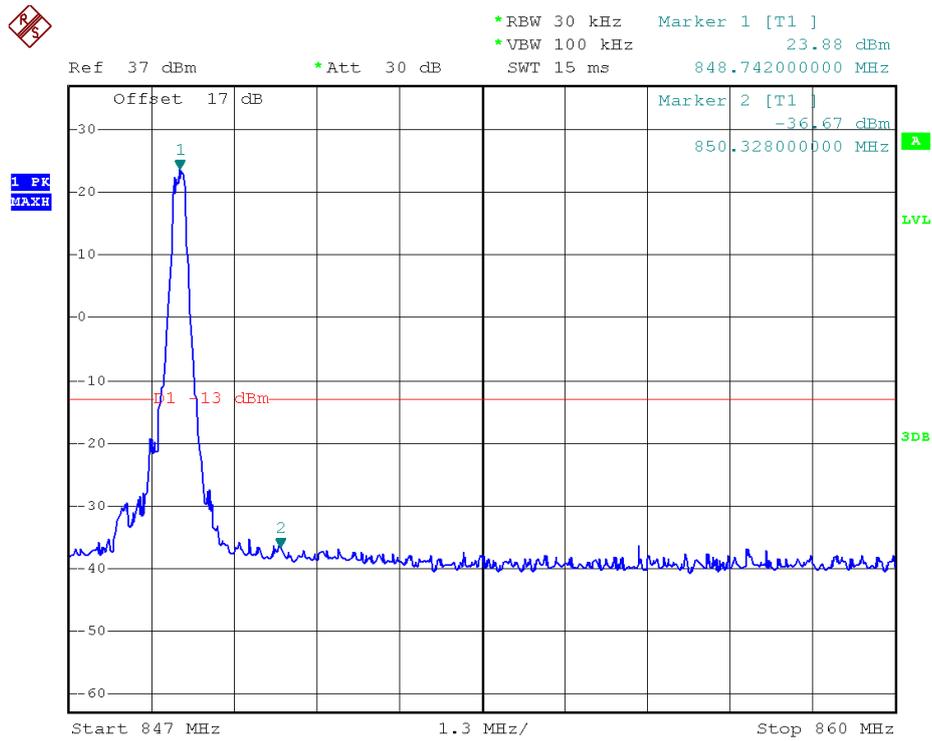
Band	LTE Band 5	Modulation	16QAM
Bandwidth	1.4MHz		



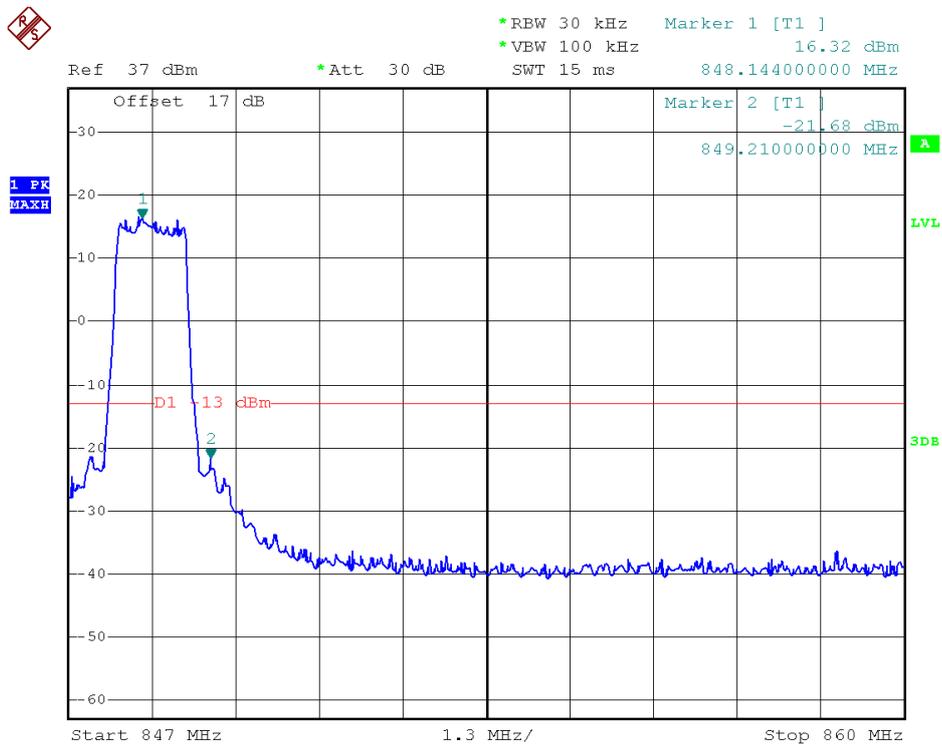
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



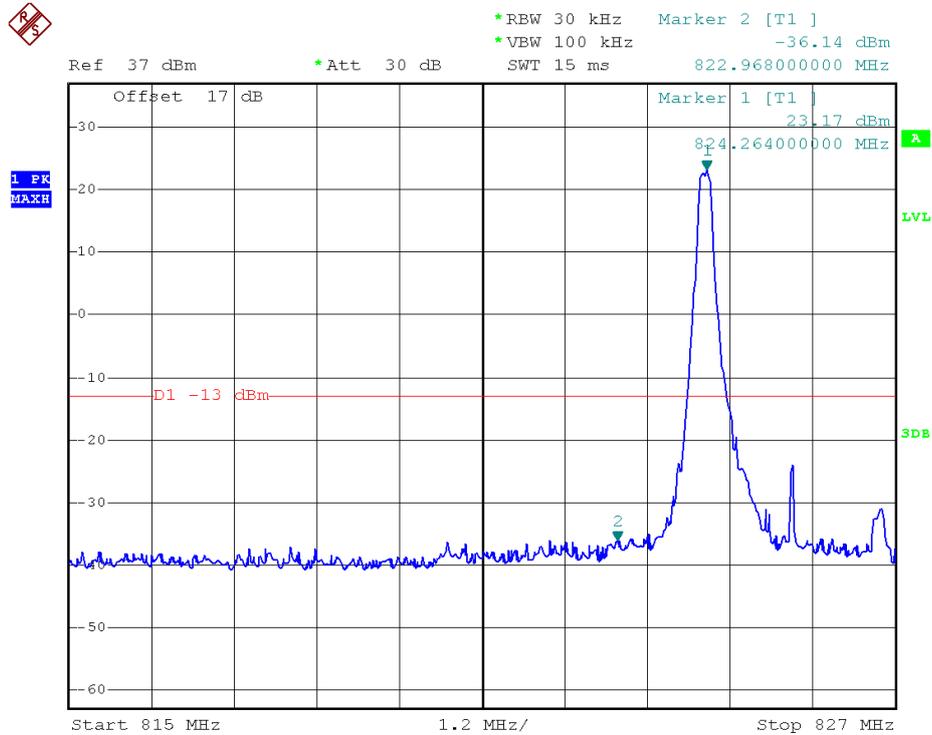
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



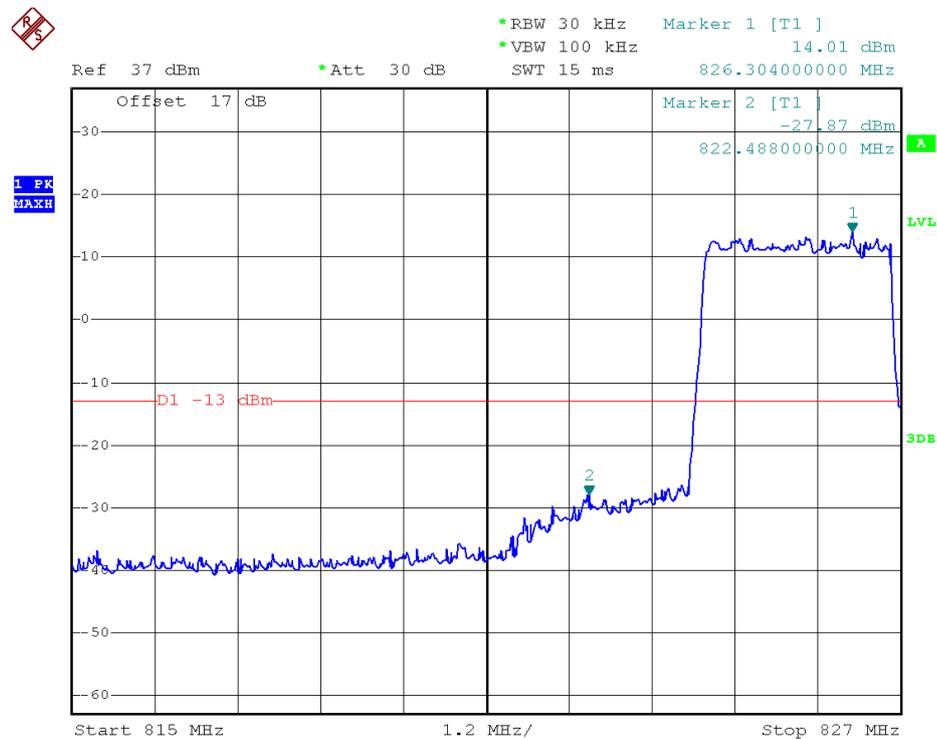
Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



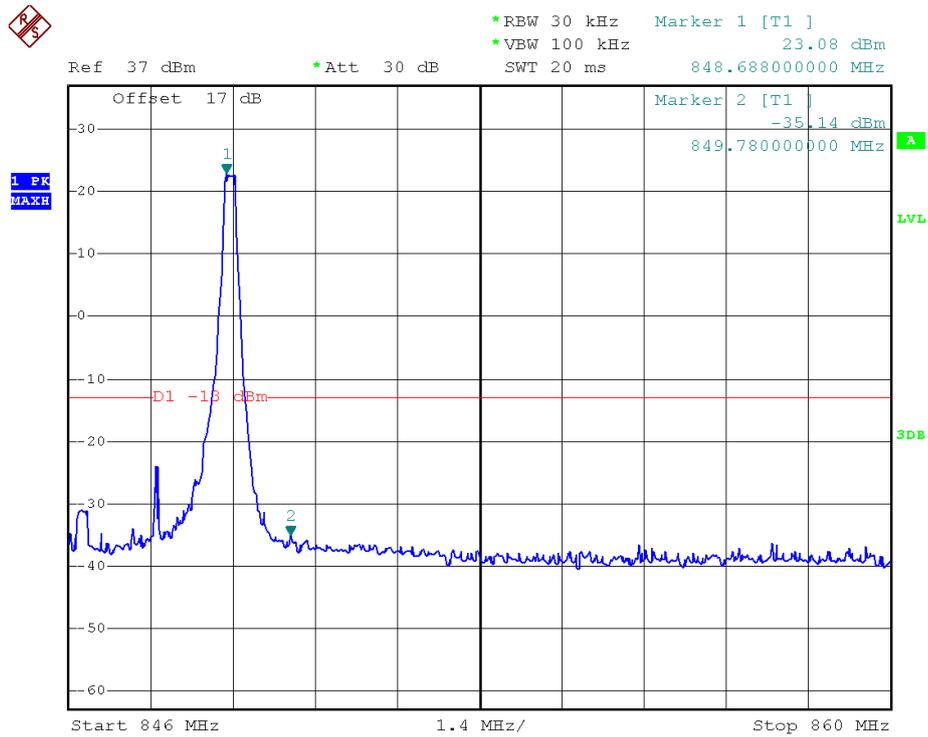
Band	LTE Band 5	Modulation	QPSK
Bandwidth	3MHz		



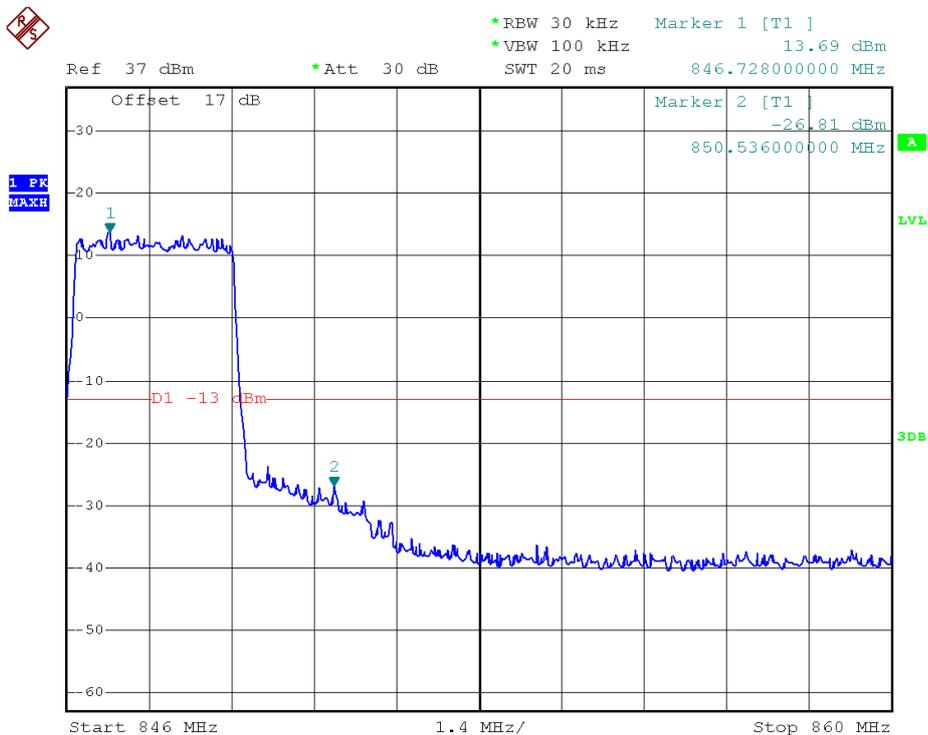
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower LTE Edge Plot for QPSK-RB Size 15, RB Offset 0



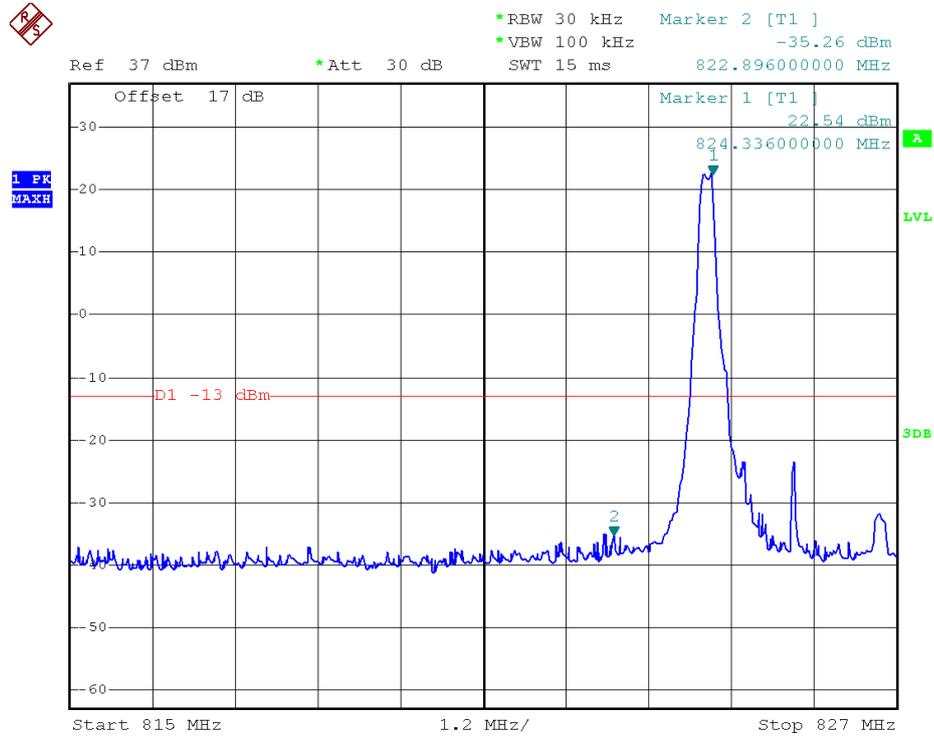
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



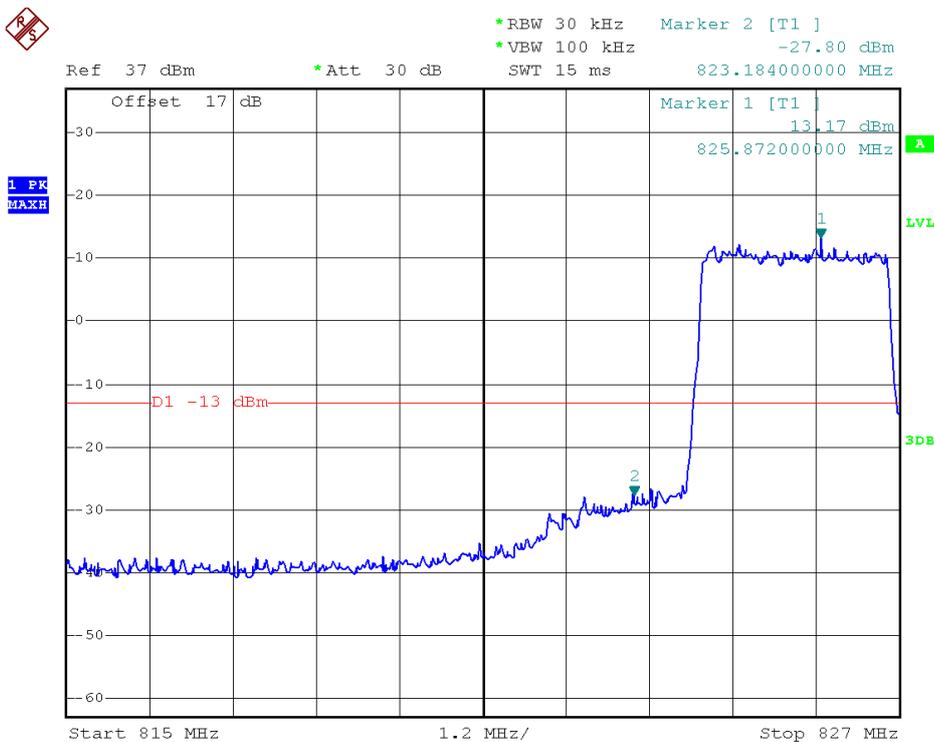
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



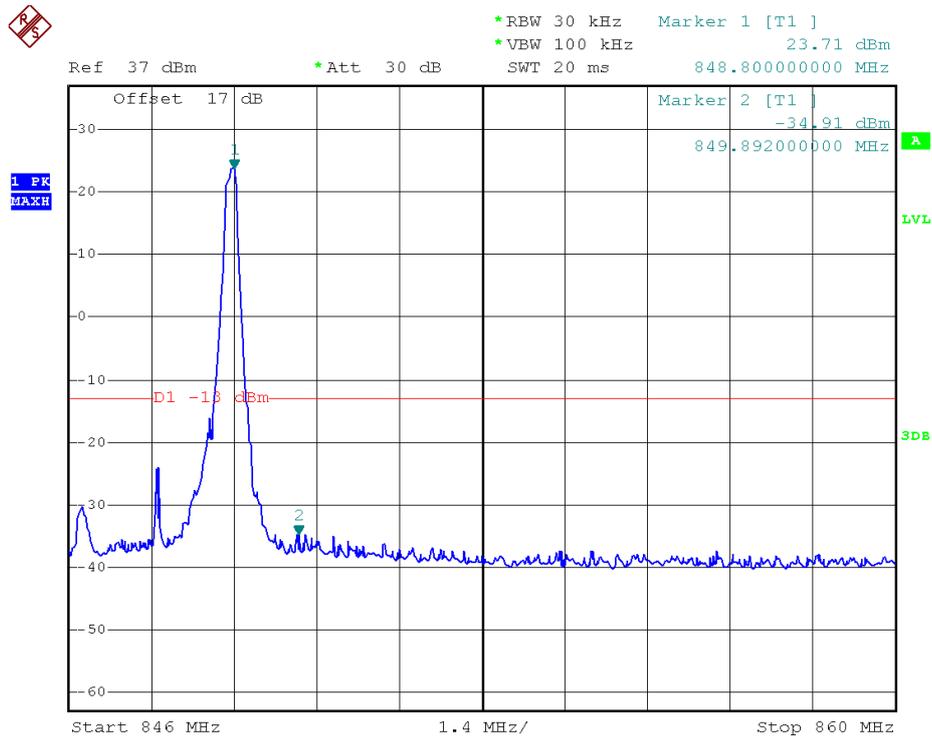
Band	LTE Band 5	Modulation	16QAM
Bandwidth	3MHz		



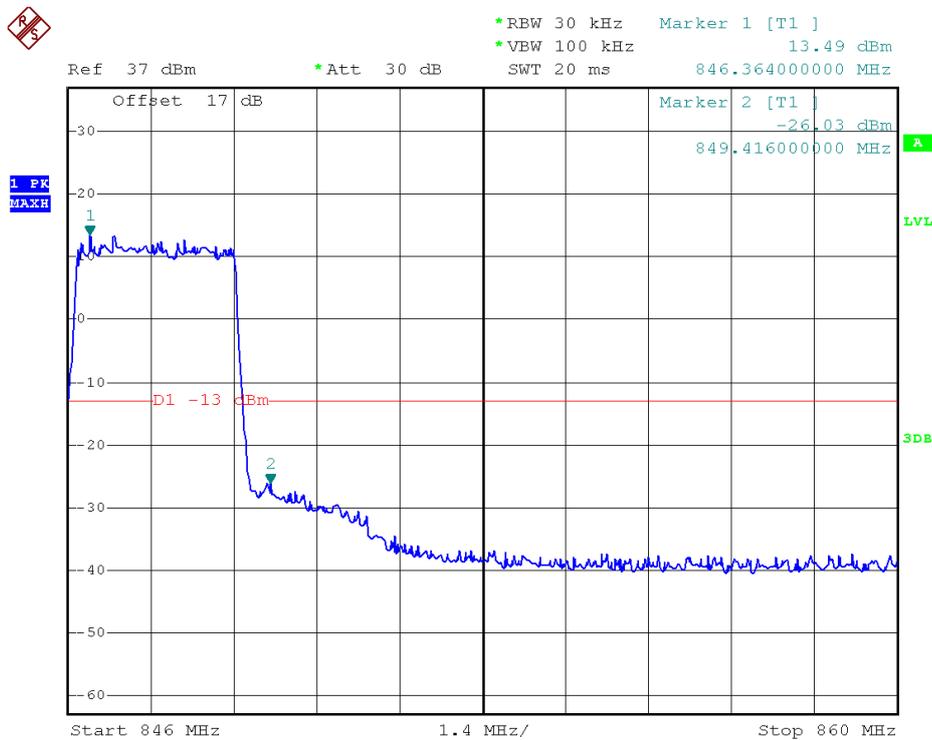
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



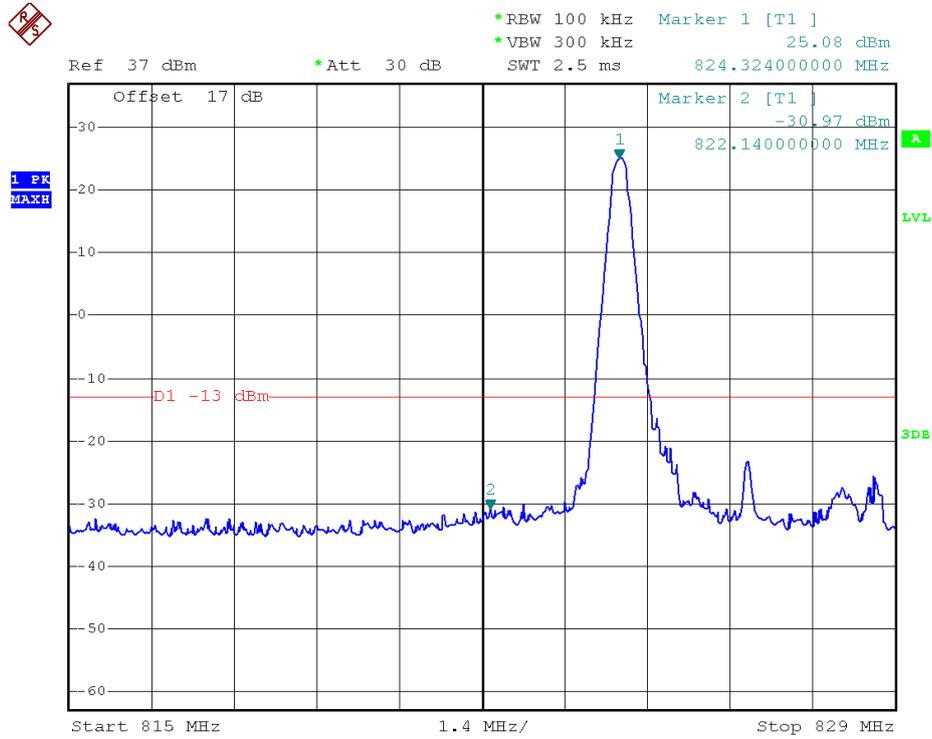
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



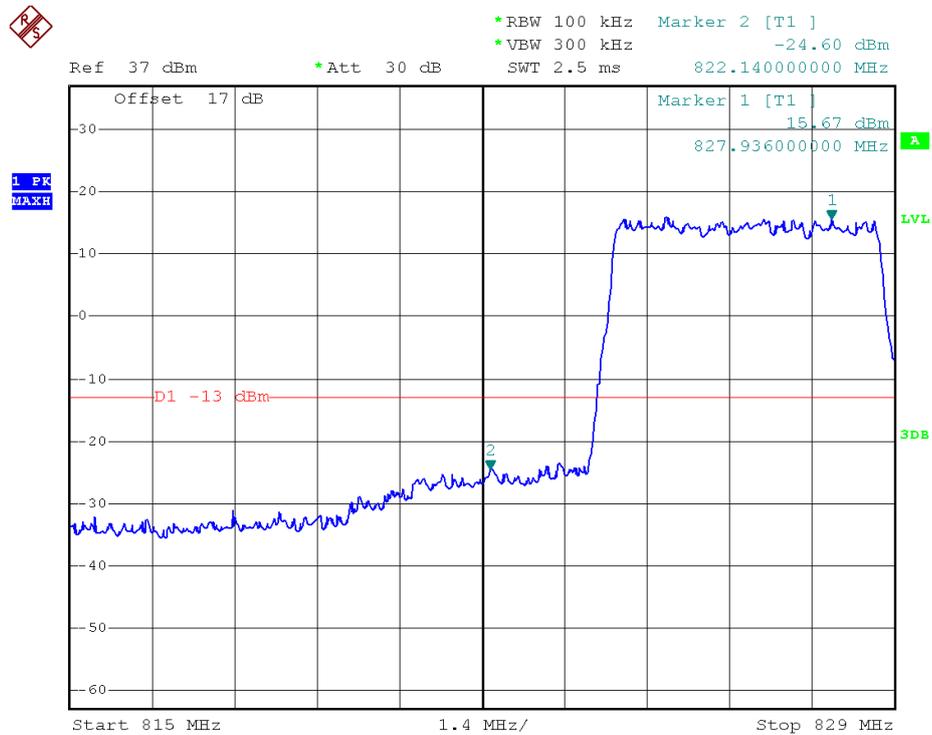
Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



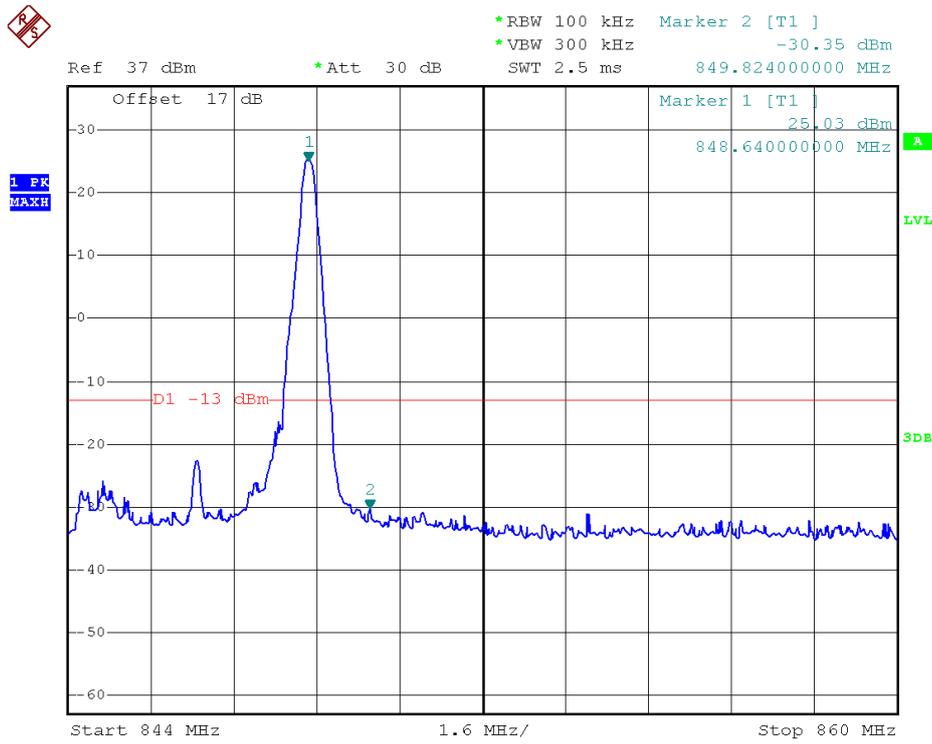
Band	LTE Band 5	Modulation	QPSK
Bandwidth	5MHz		



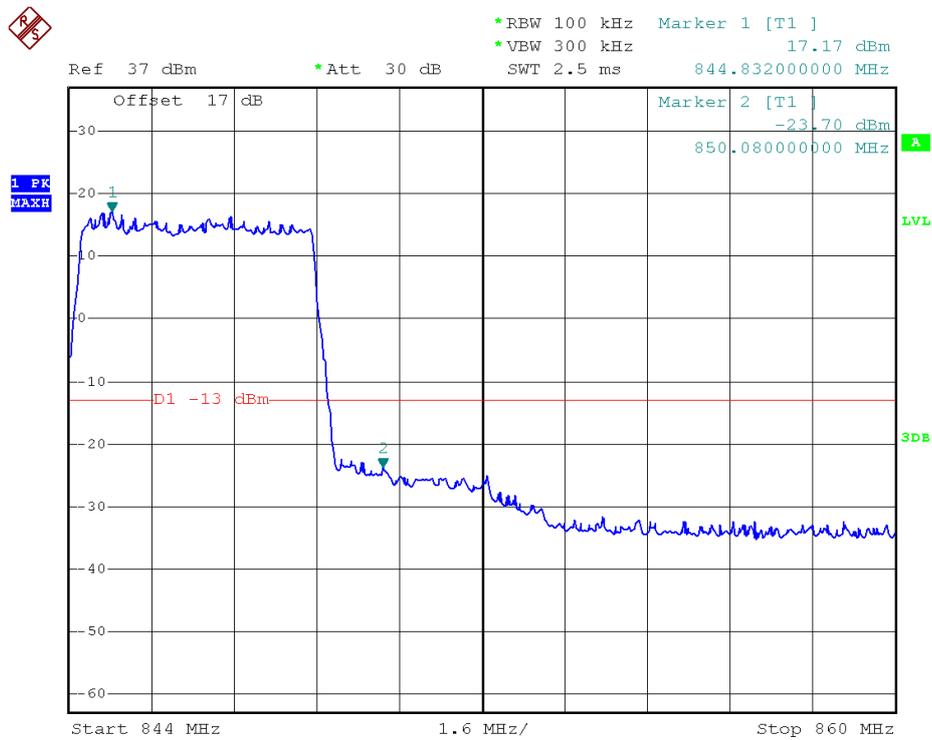
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



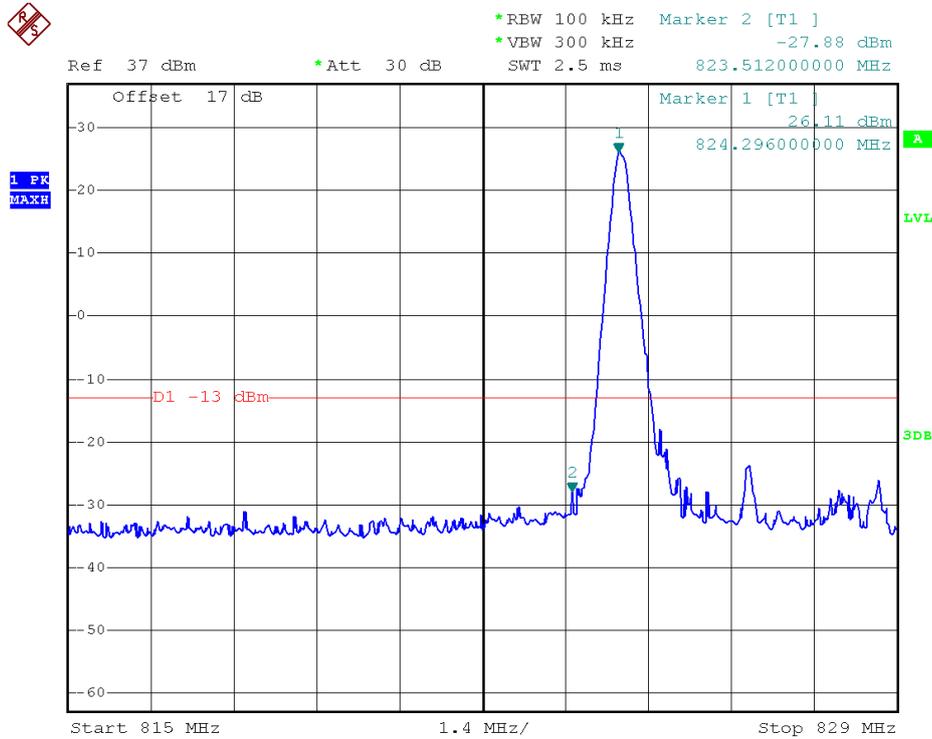
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



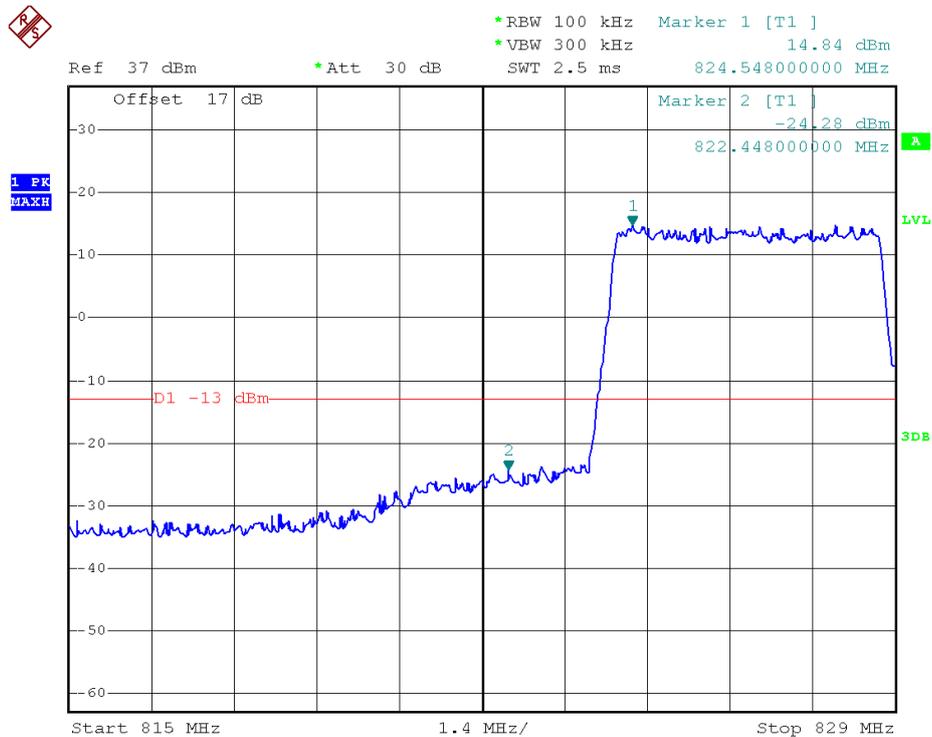
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



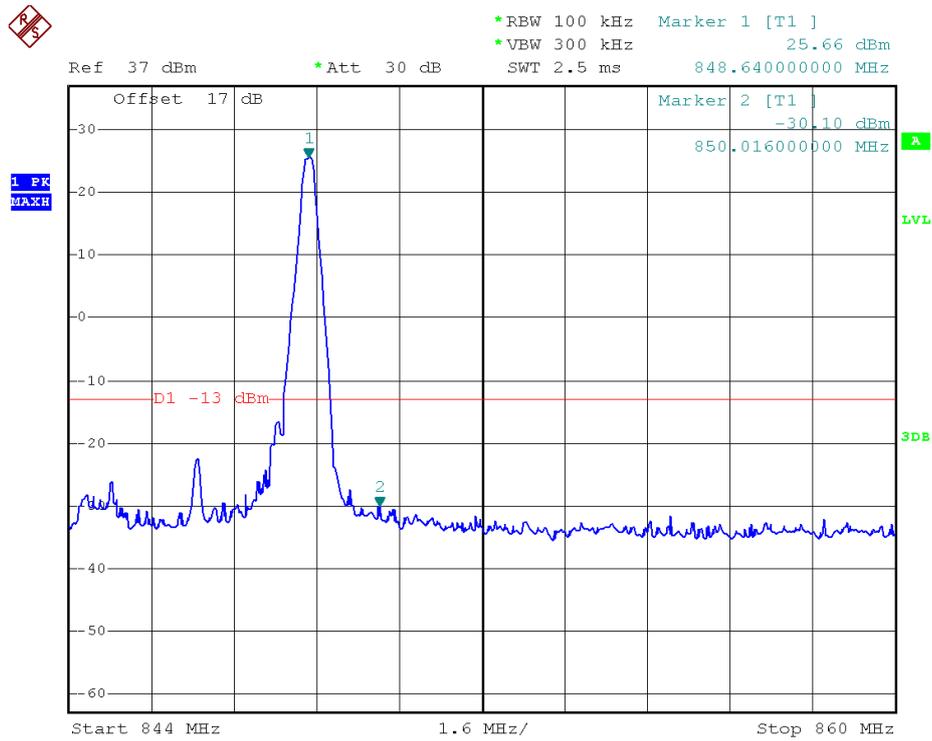
Band	LTE Band 5	Modulation	16QAM
Bandwidth	5MHz		



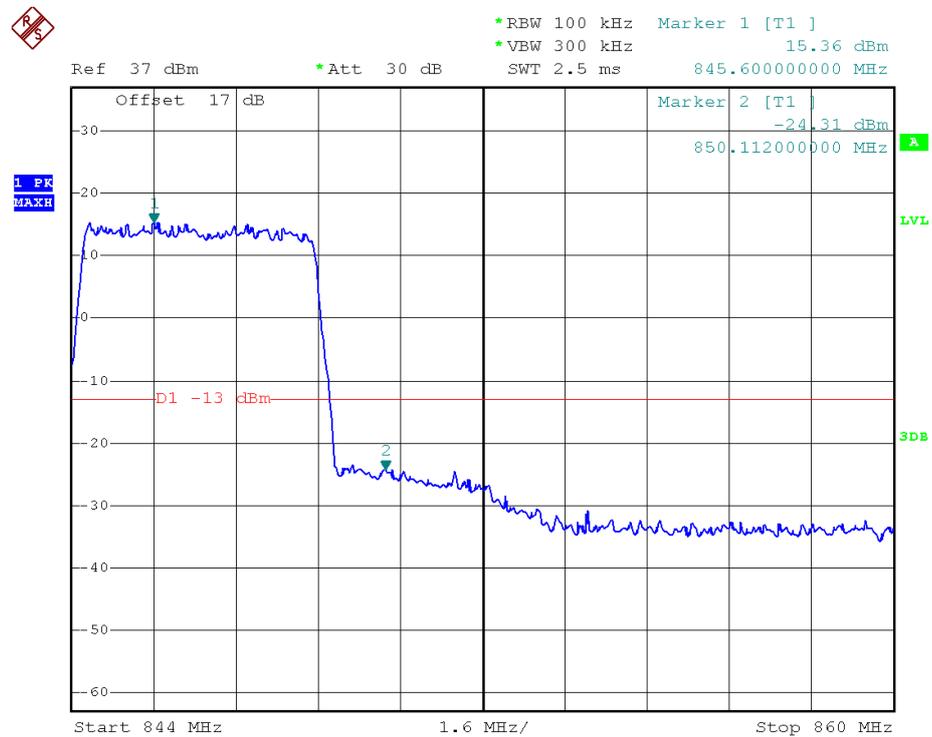
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



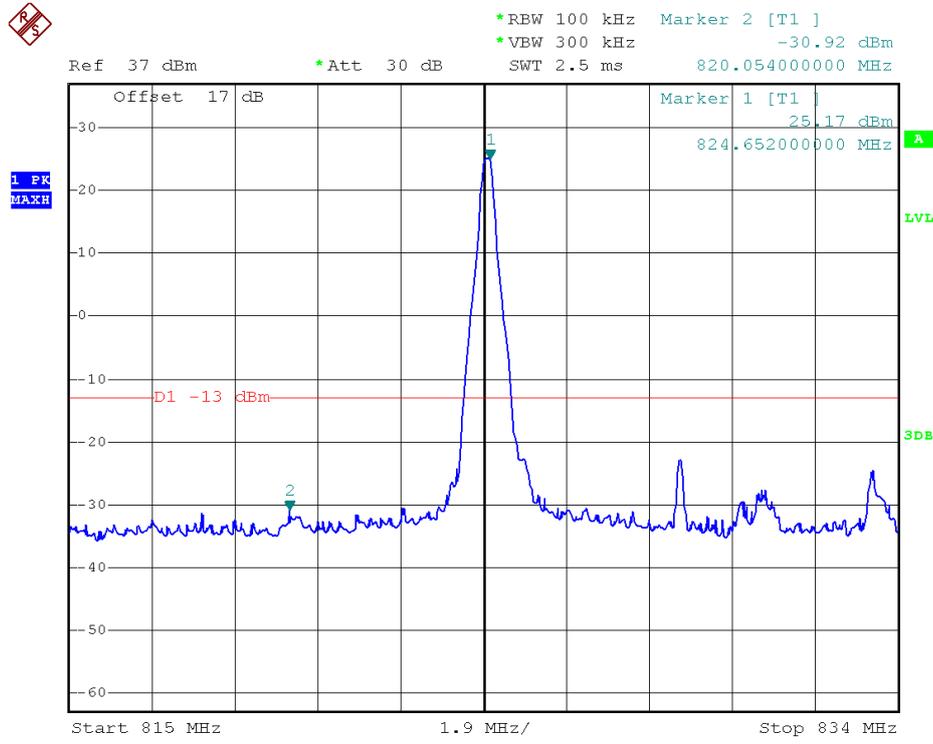
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



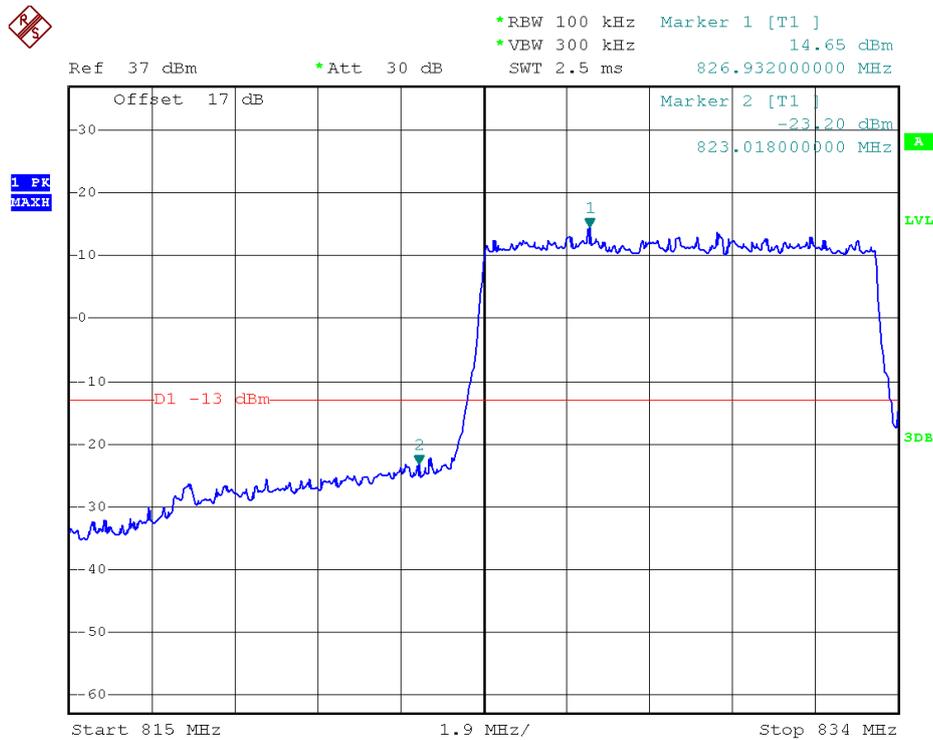
Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



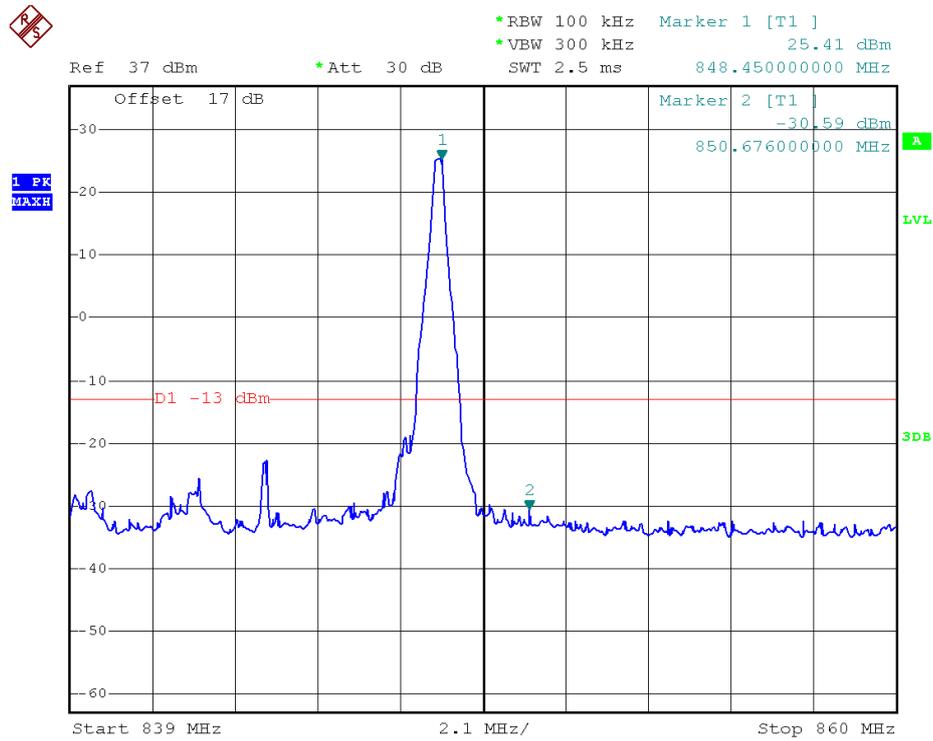
Band	LTE Band 5	Modulation	QPSK
Bandwidth	10MHz		



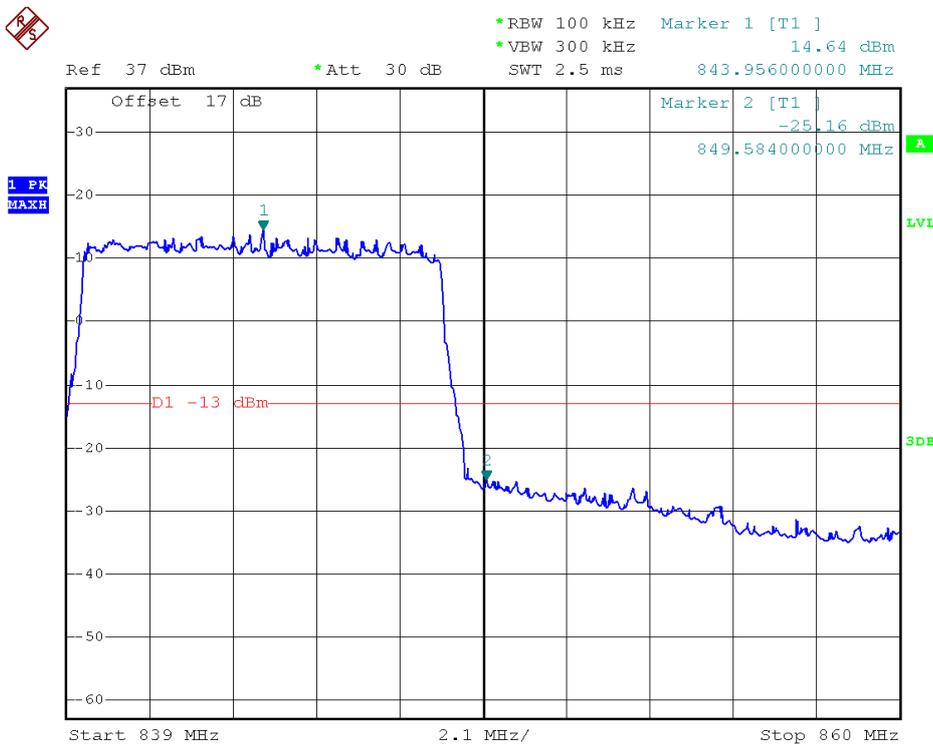
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



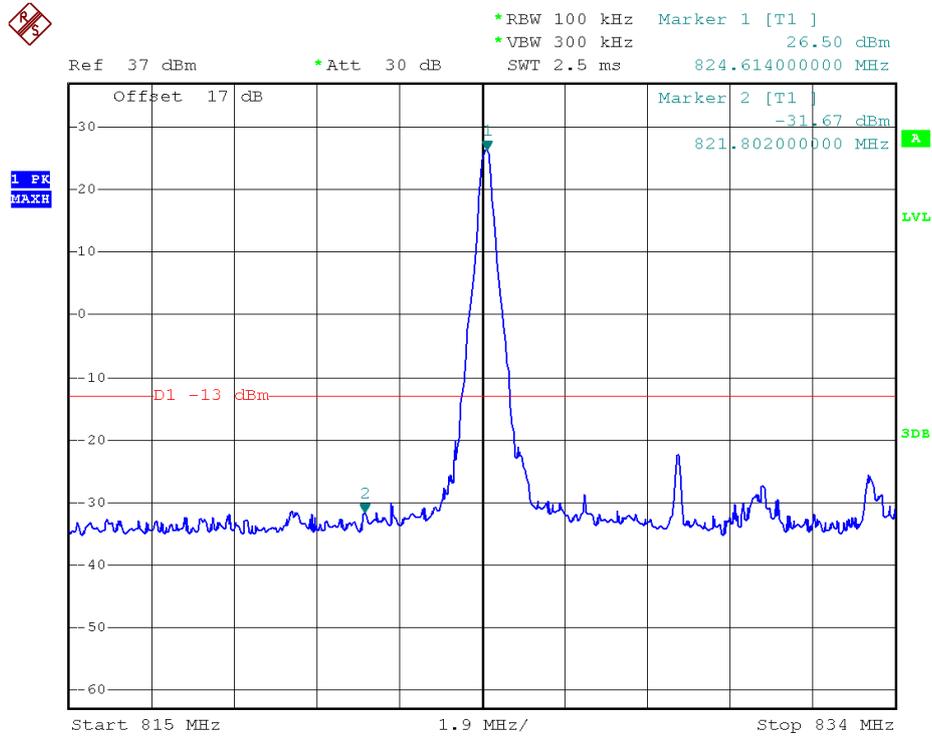
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



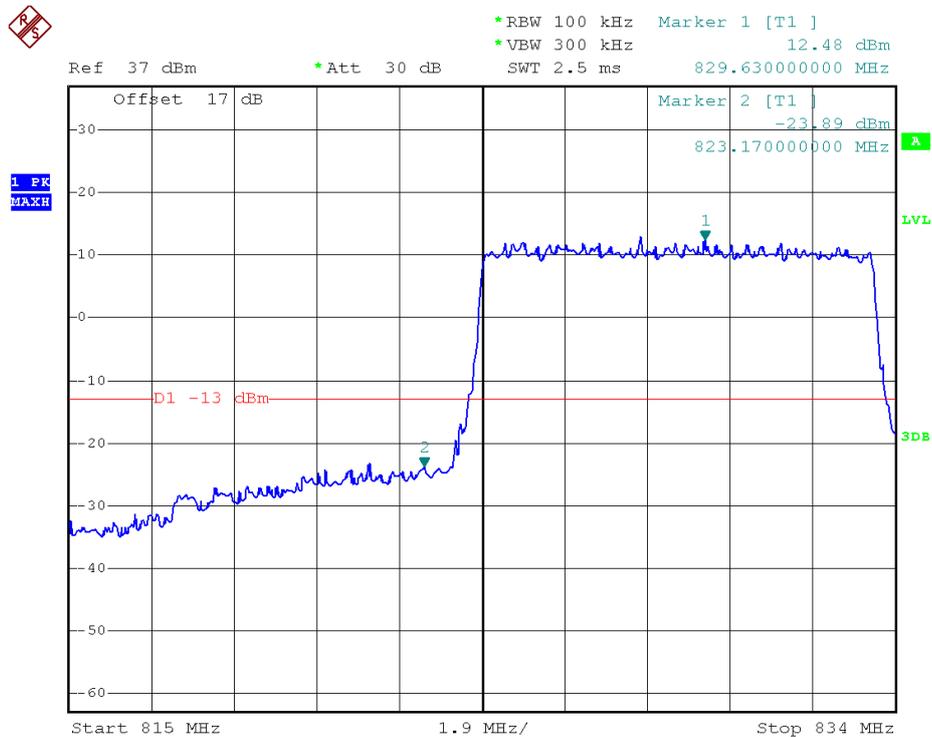
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



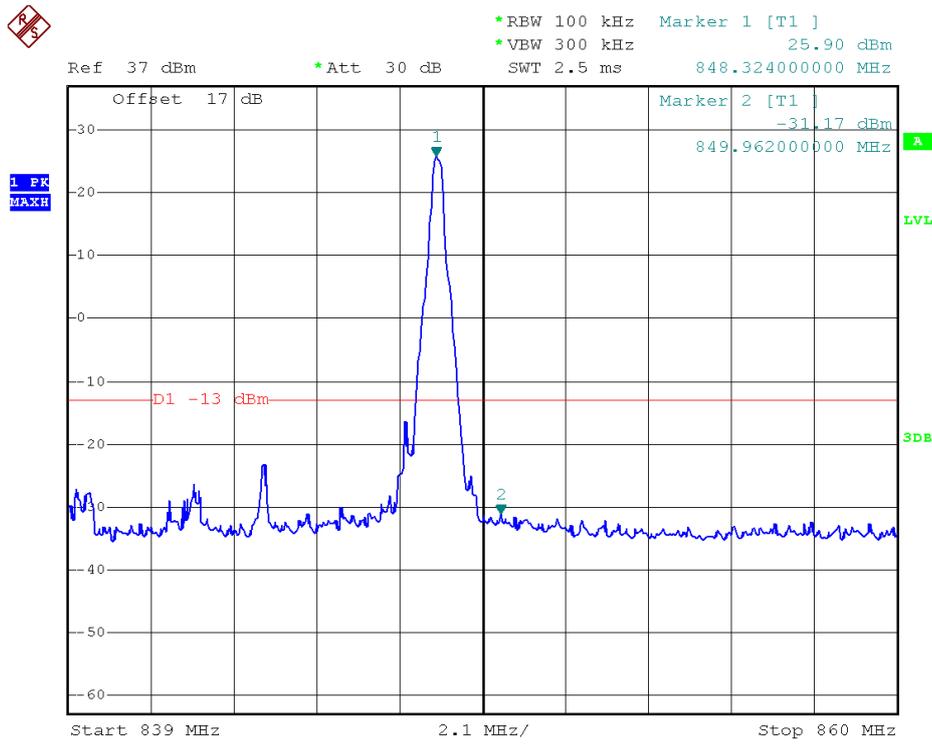
Band	LTE Band 5	Modulation	16QAM
Bandwidth	10MHz		



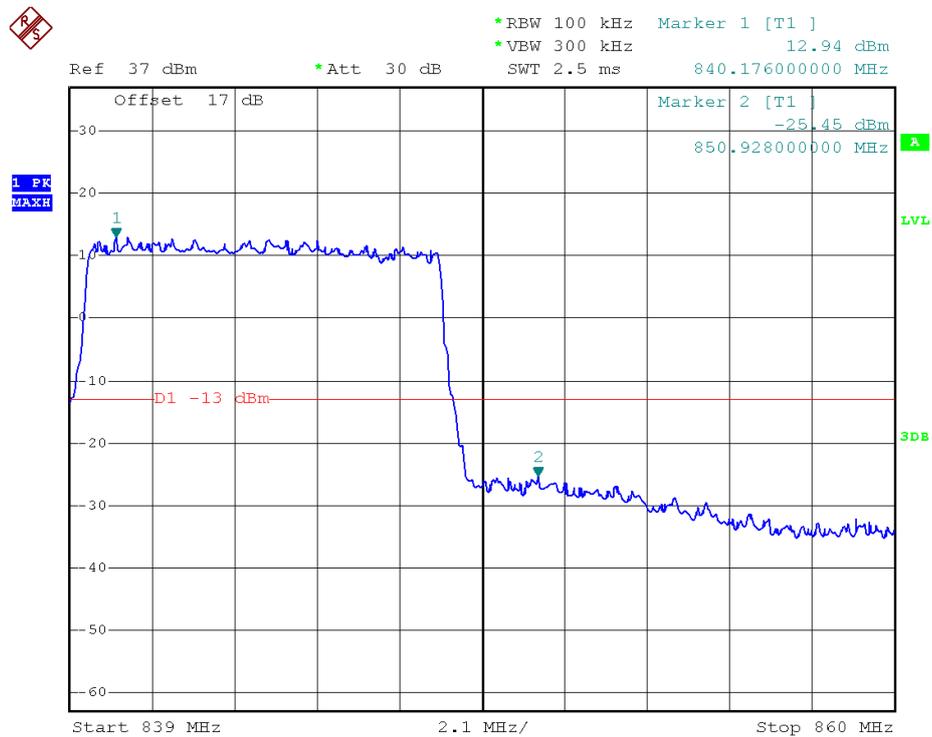
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



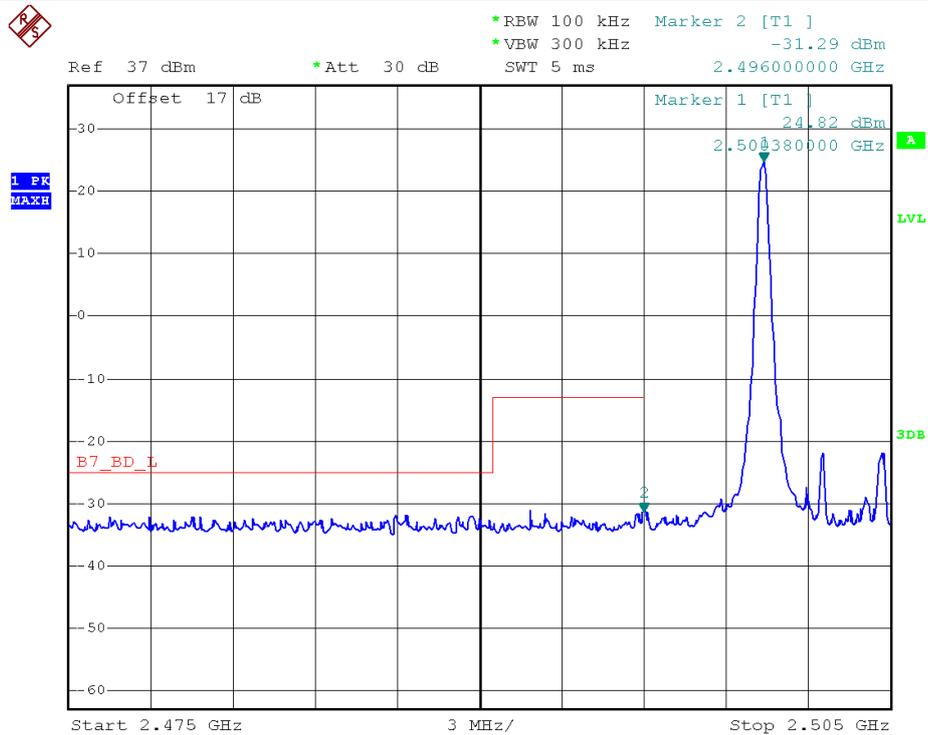
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



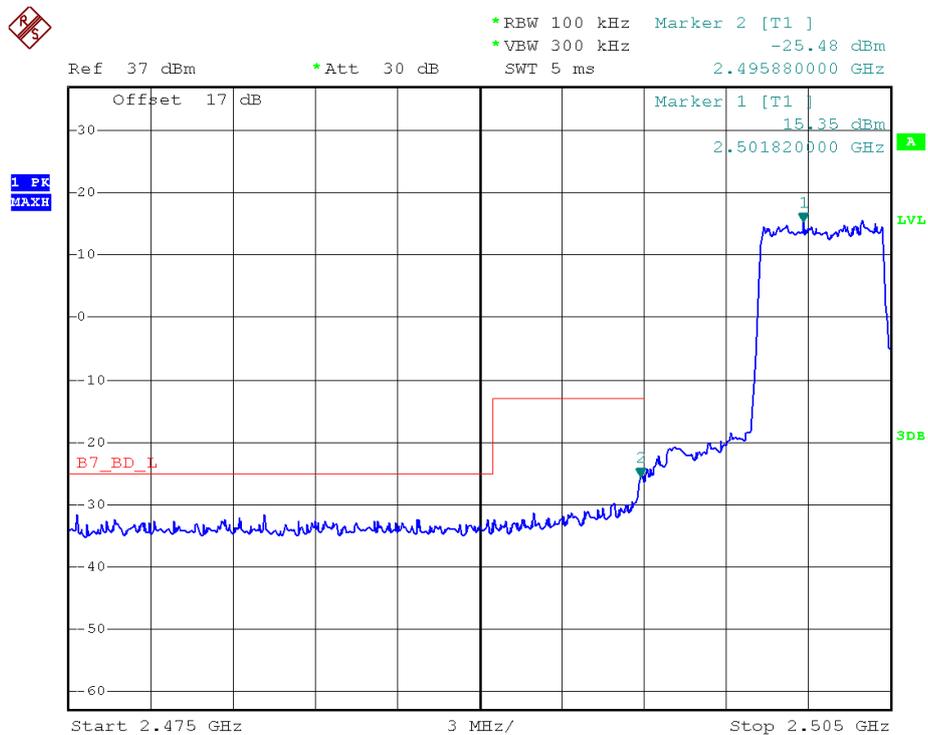
Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



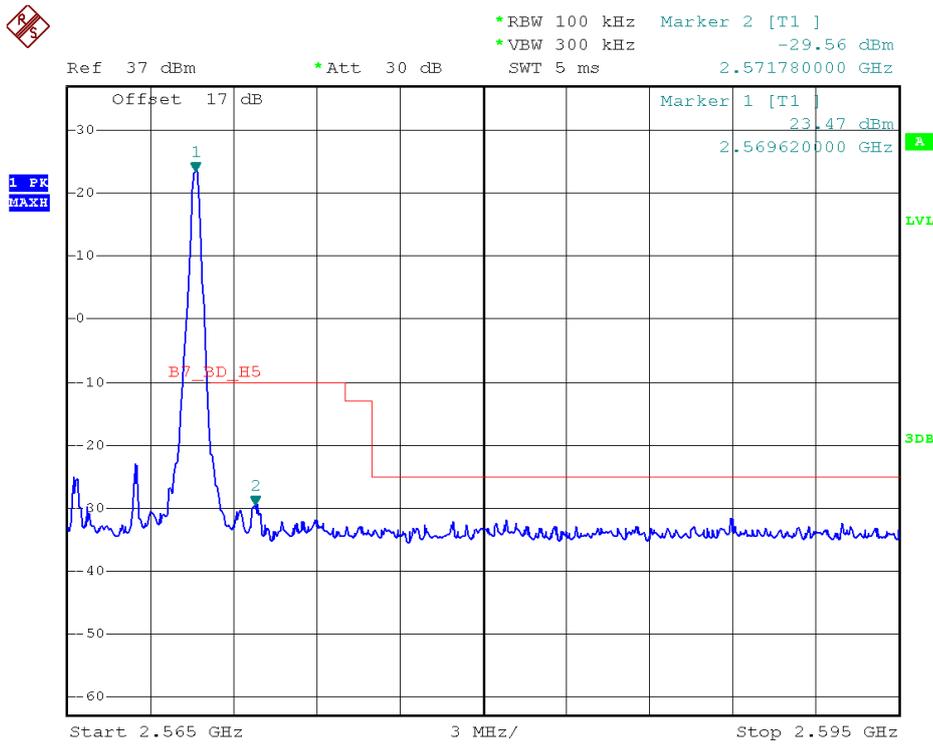
Band	LTE Band 7	Modulation	QPSK
Bandwidth	5MHz		



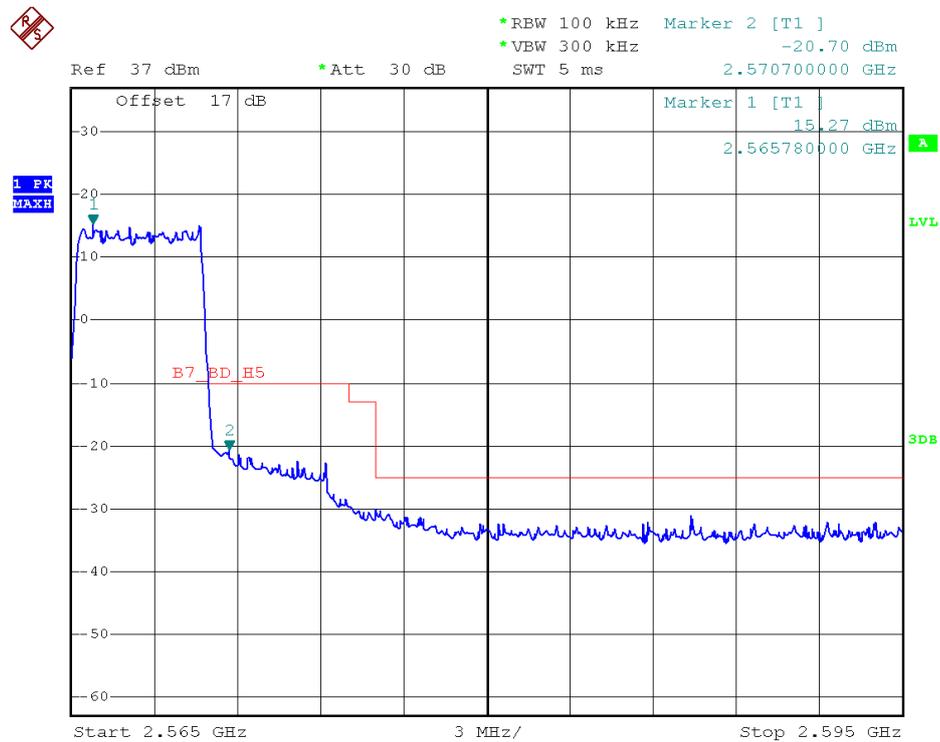
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



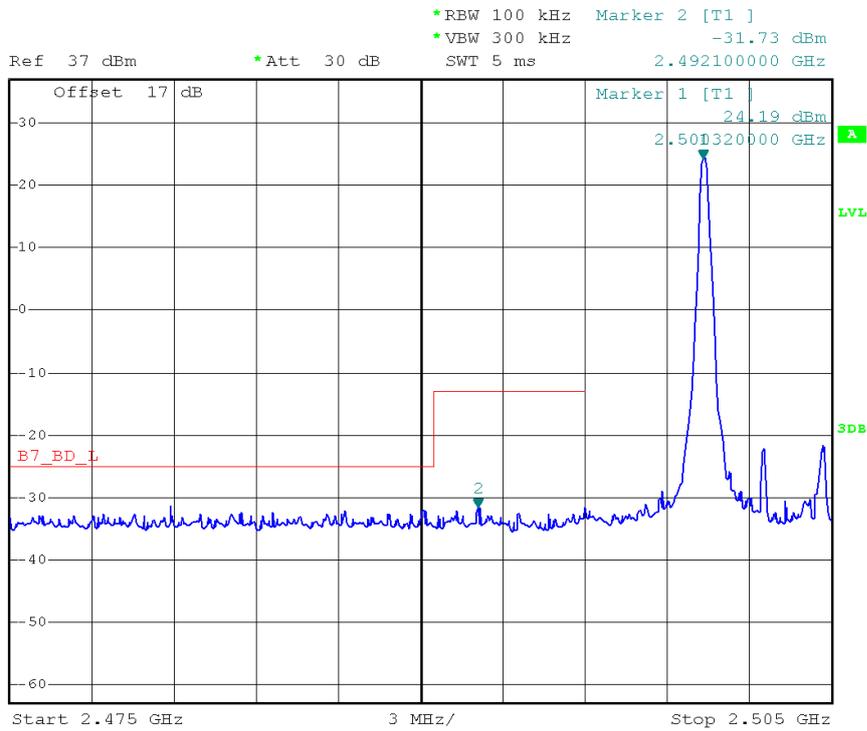
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



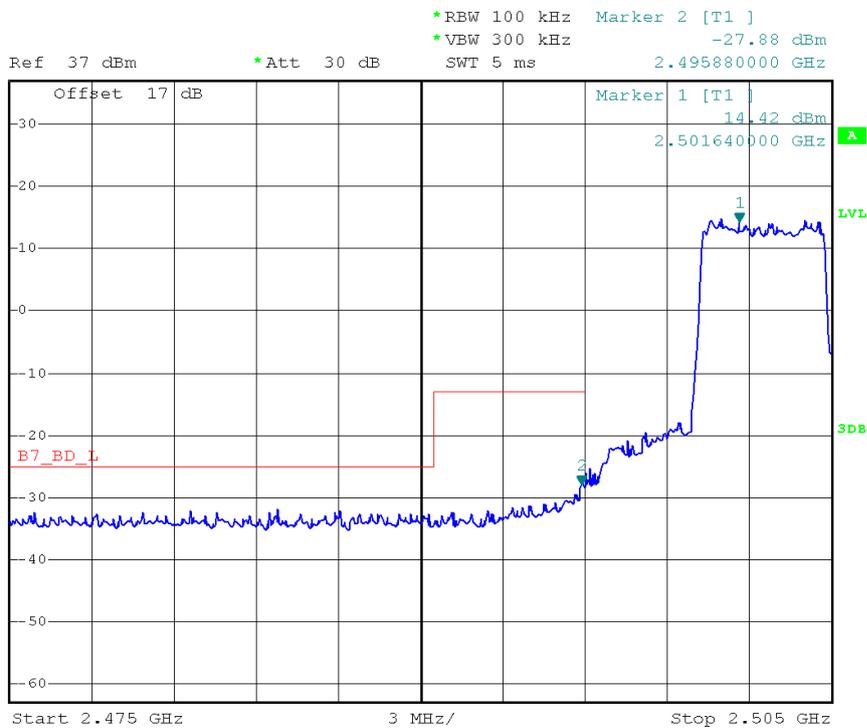
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



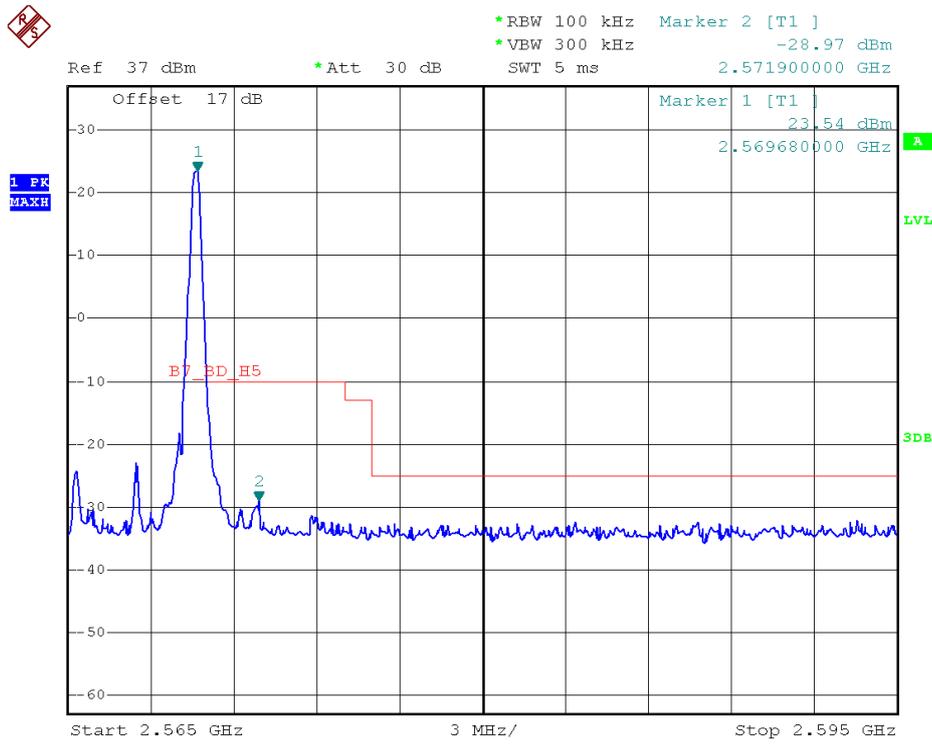
Band	LTE Band 7	Modulation	16QAM
Bandwidth	5MHz		



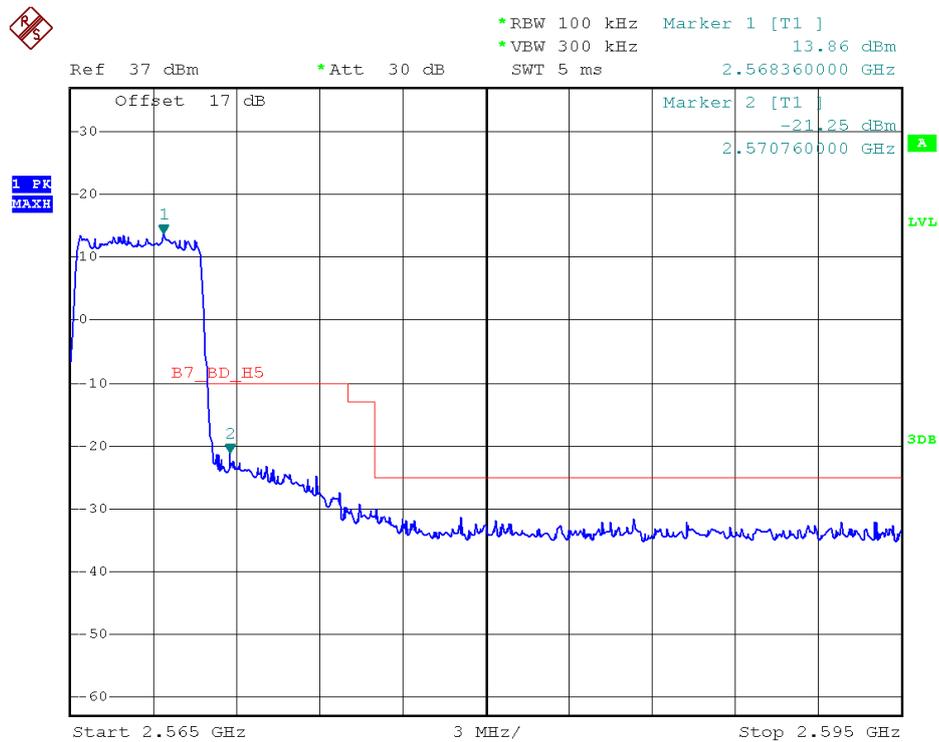
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



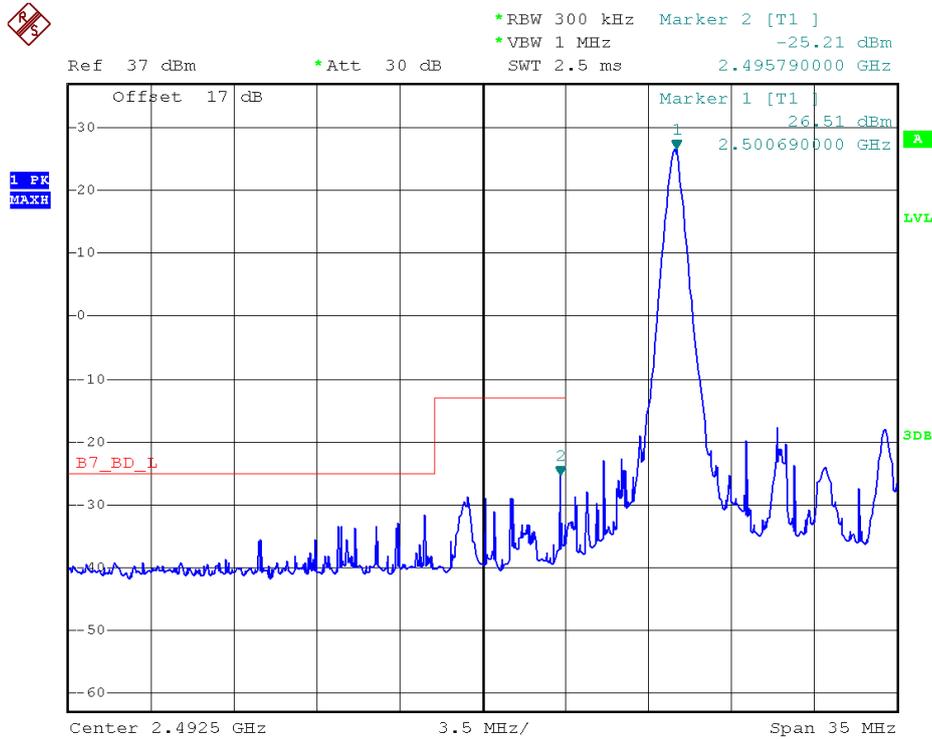
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



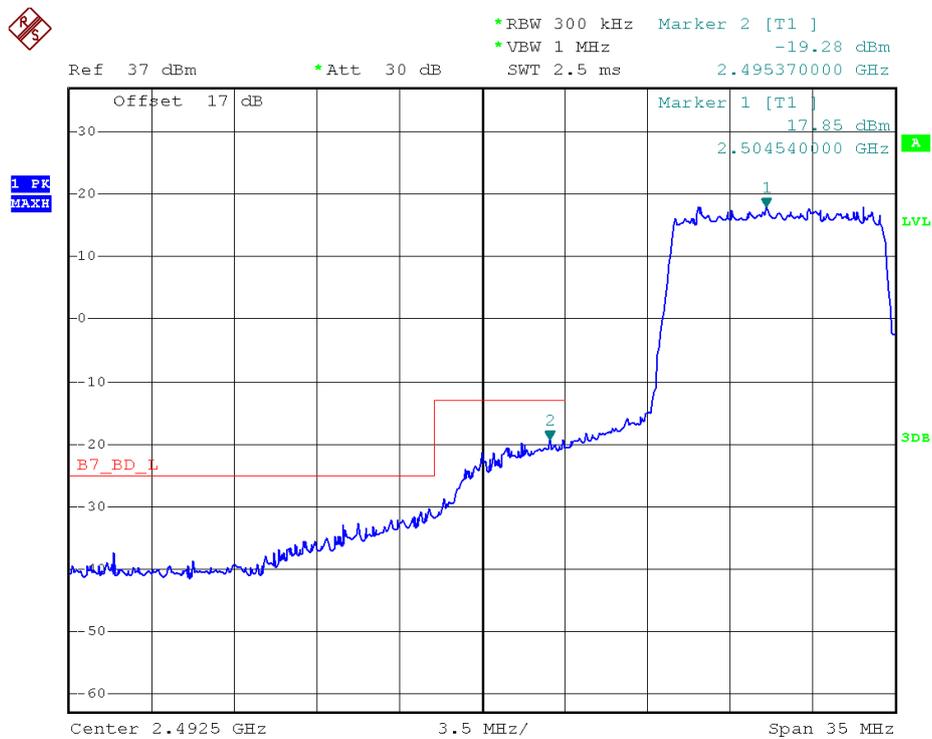
Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



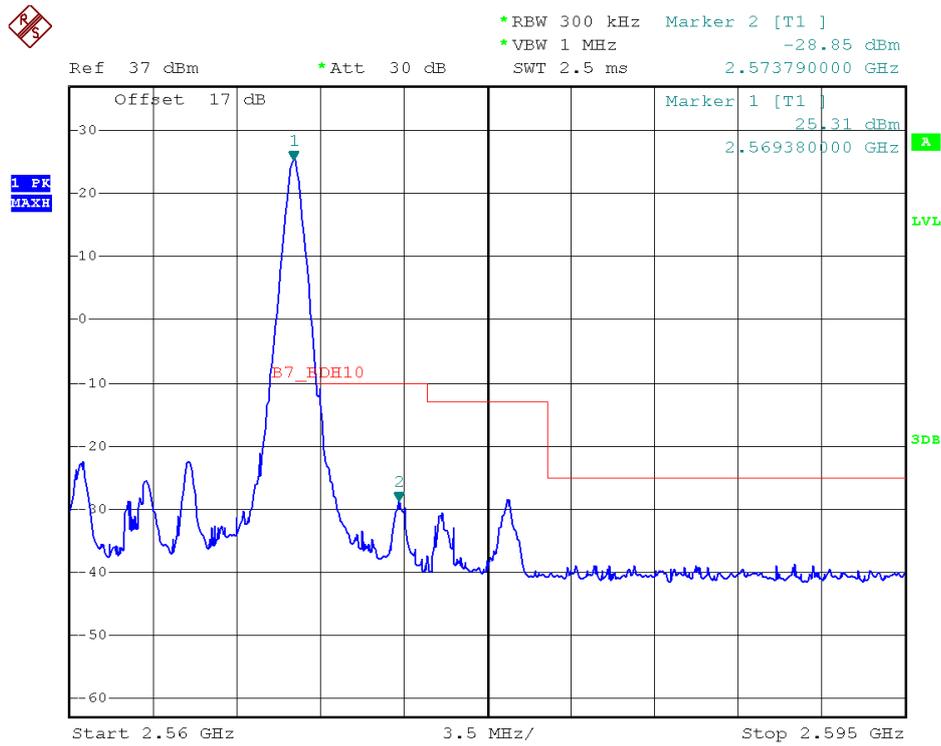
Band	LTE Band 7	Modulation	QPSK
Bandwidth	10MHz		



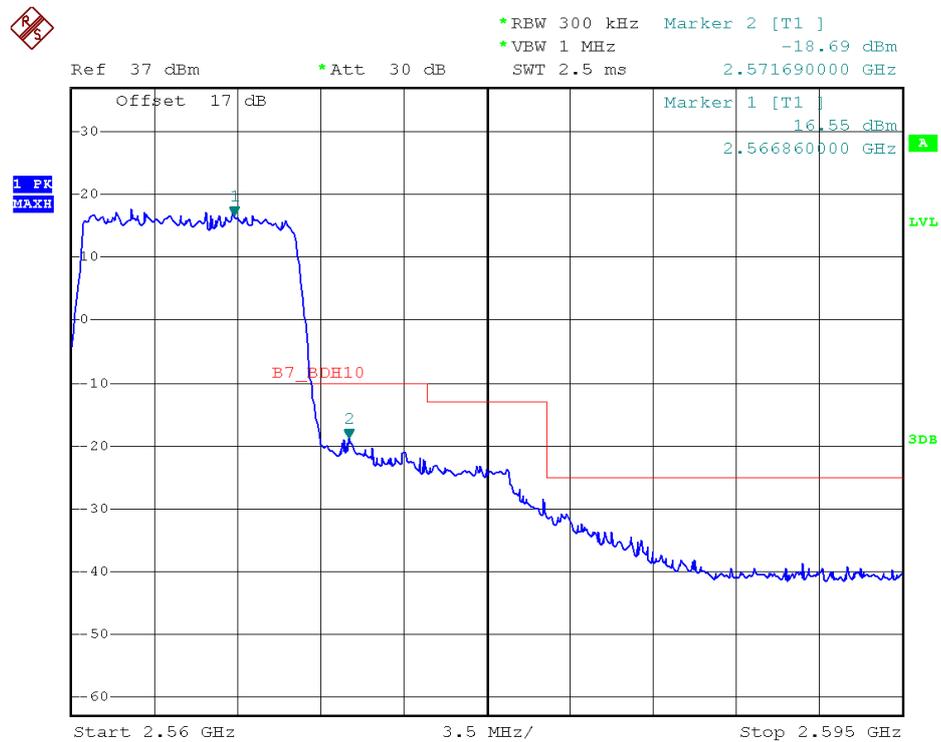
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



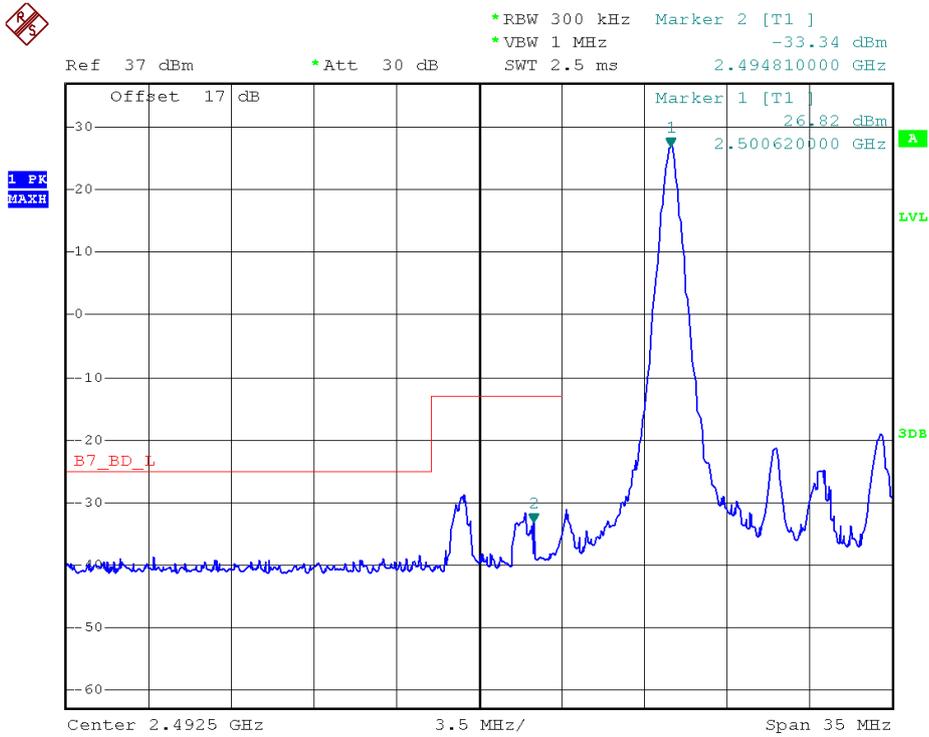
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



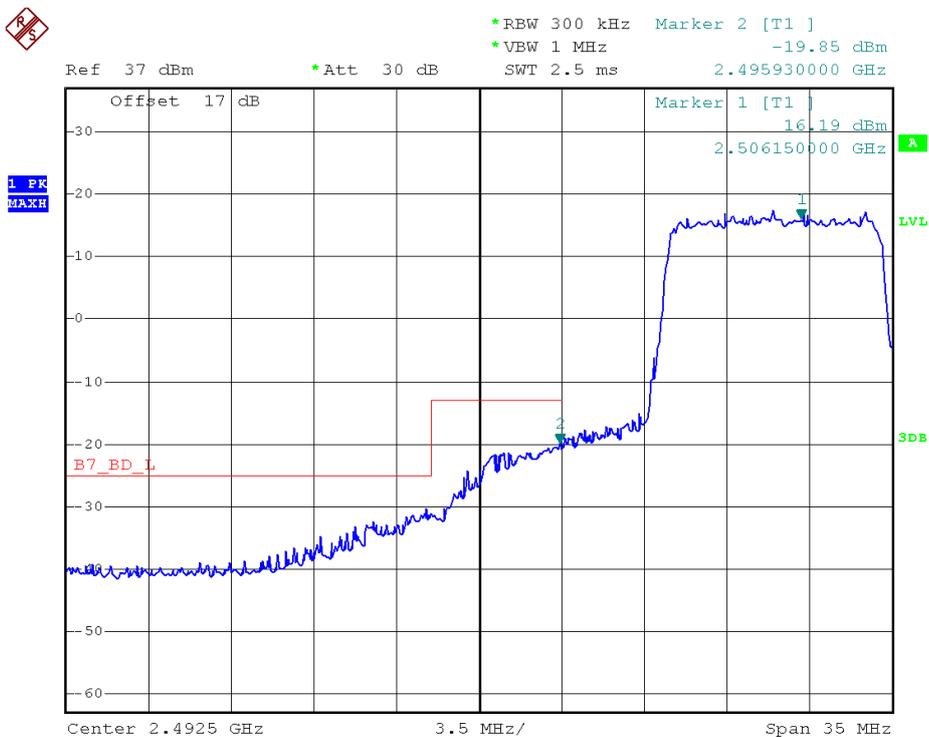
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



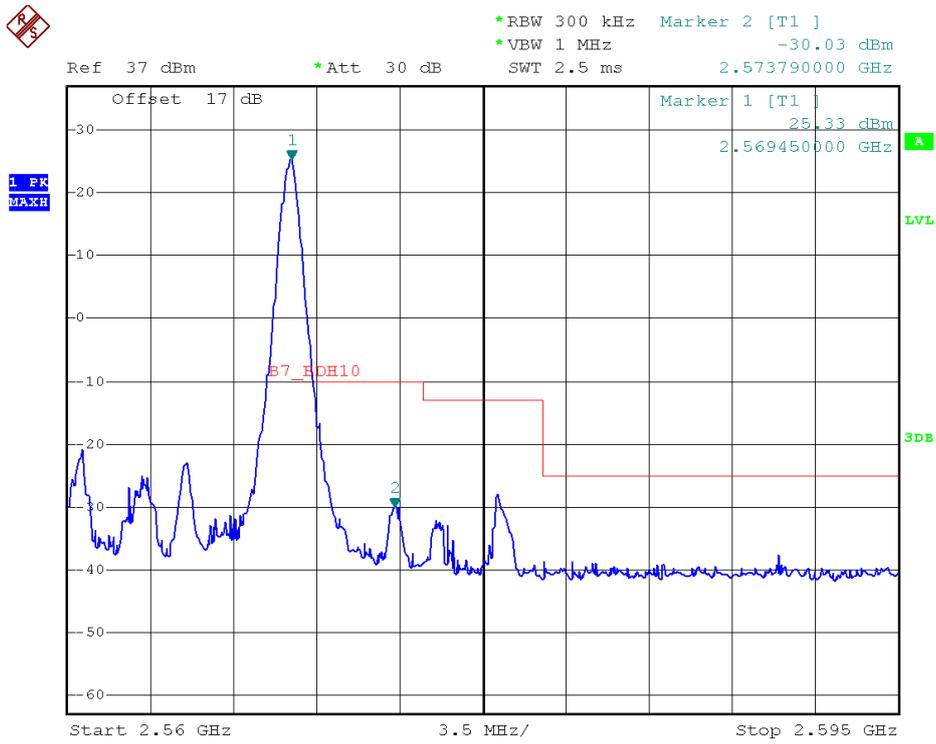
Band	LTE Band 7	Modulation	16QAM
Bandwidth	10MHz		



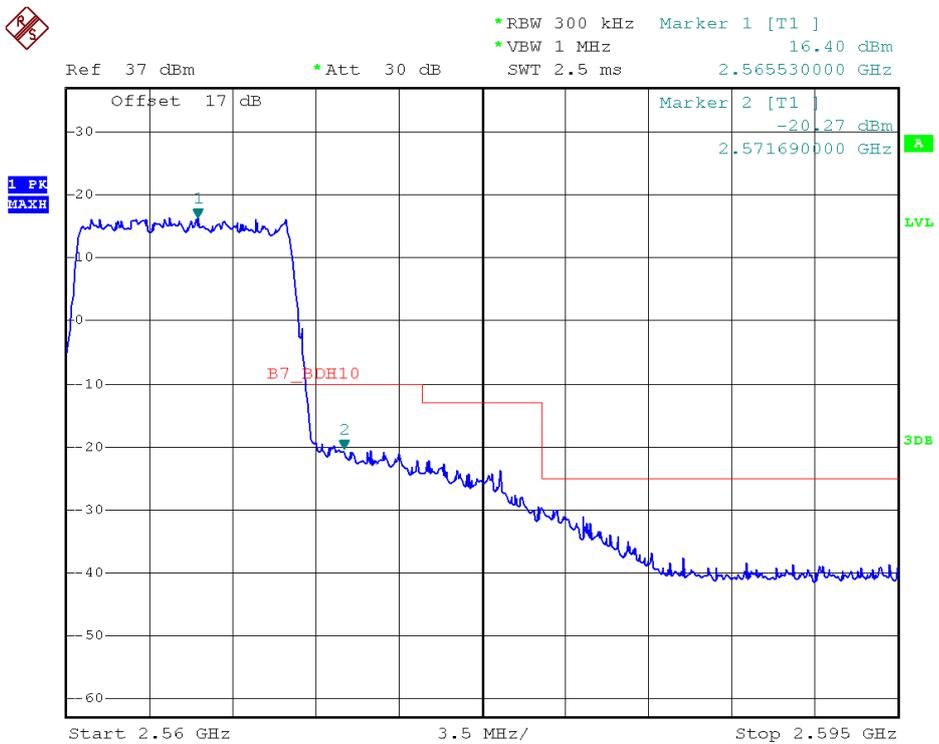
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



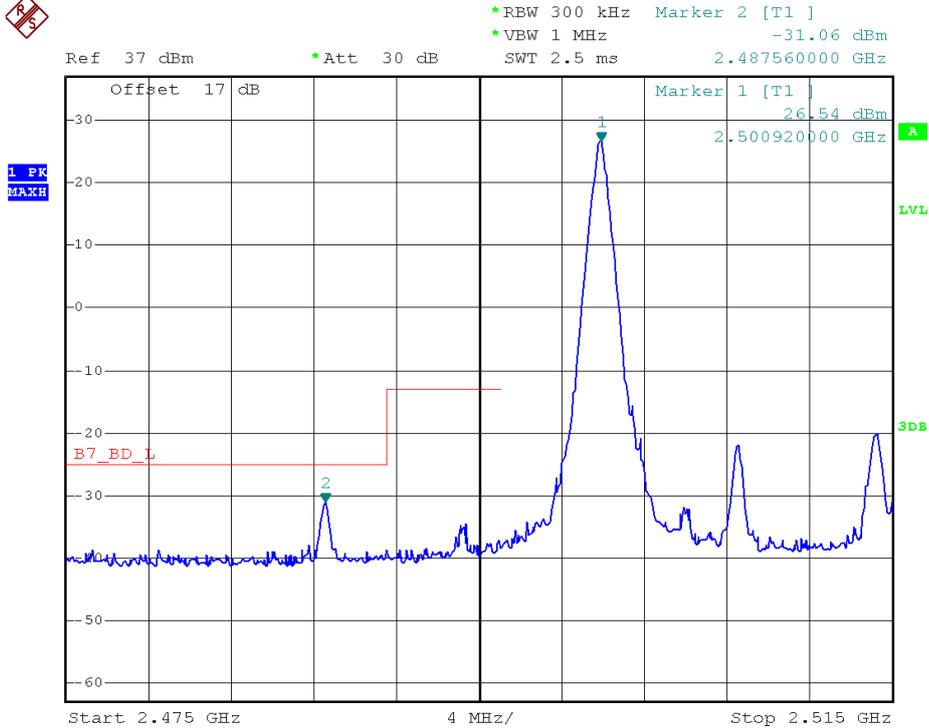
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



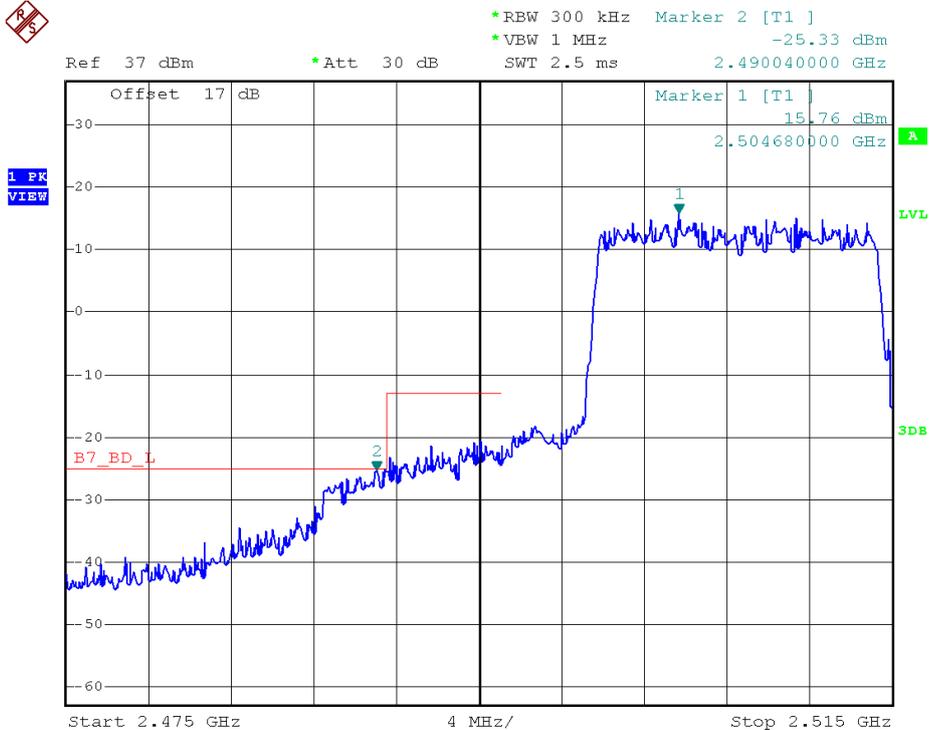
Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



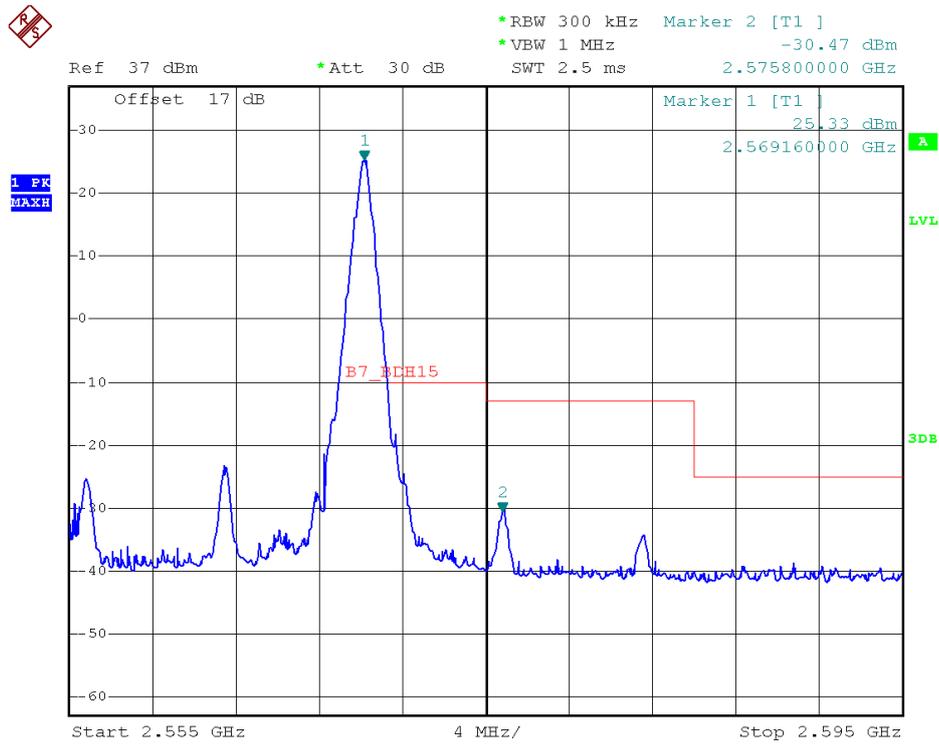
Band	LTE Band 7	Modulation	QPSK
Bandwidth	15MHz		



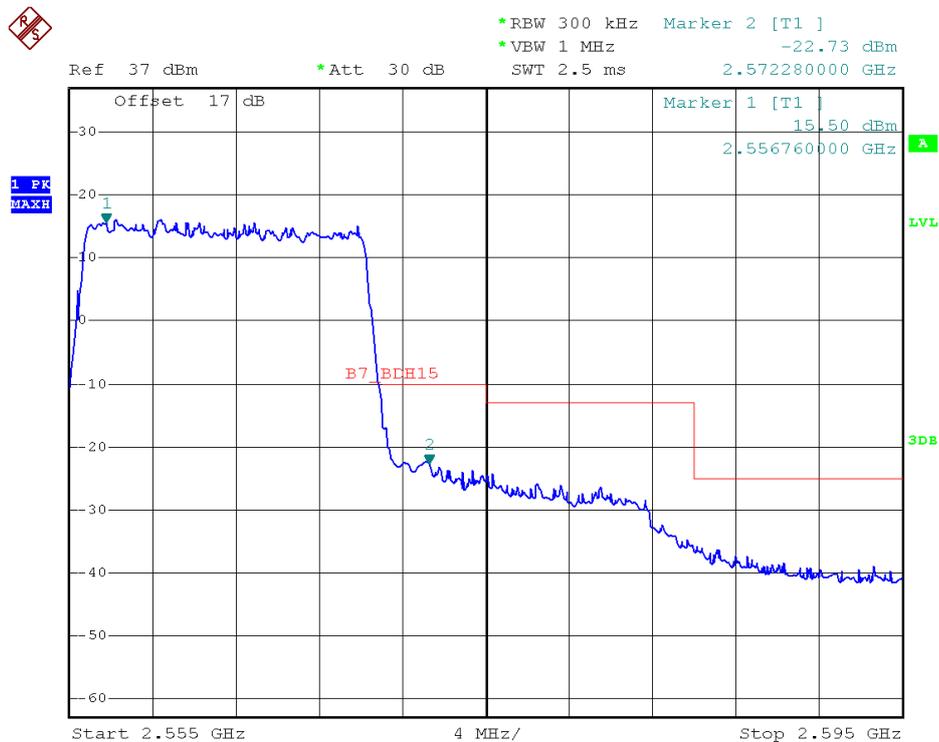
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK -RB Size 75, RB Offset 0



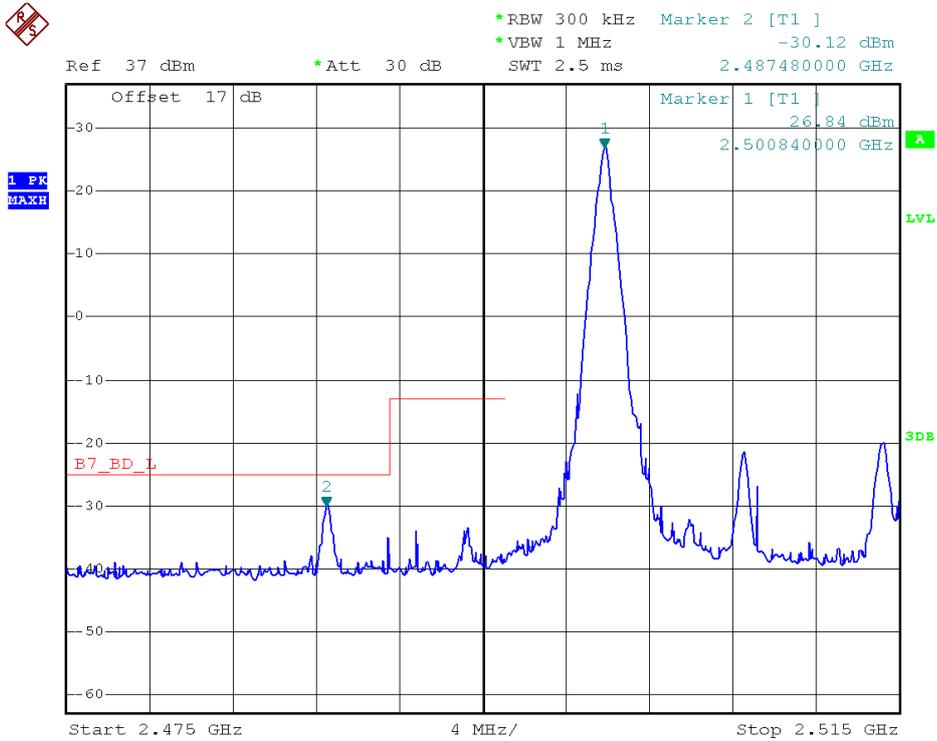
Higher Band Edge Plot for QPSK -RB Size 1, RB Offset 74



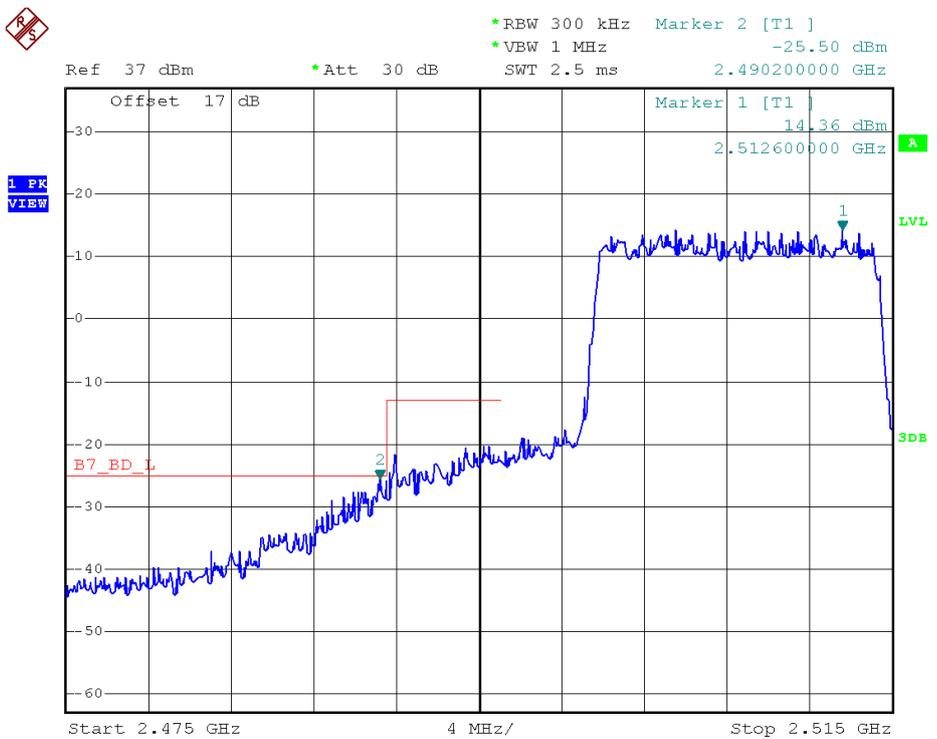
Higher Band Edge Plot for QPSK -RB Size 75, RB Offset 0



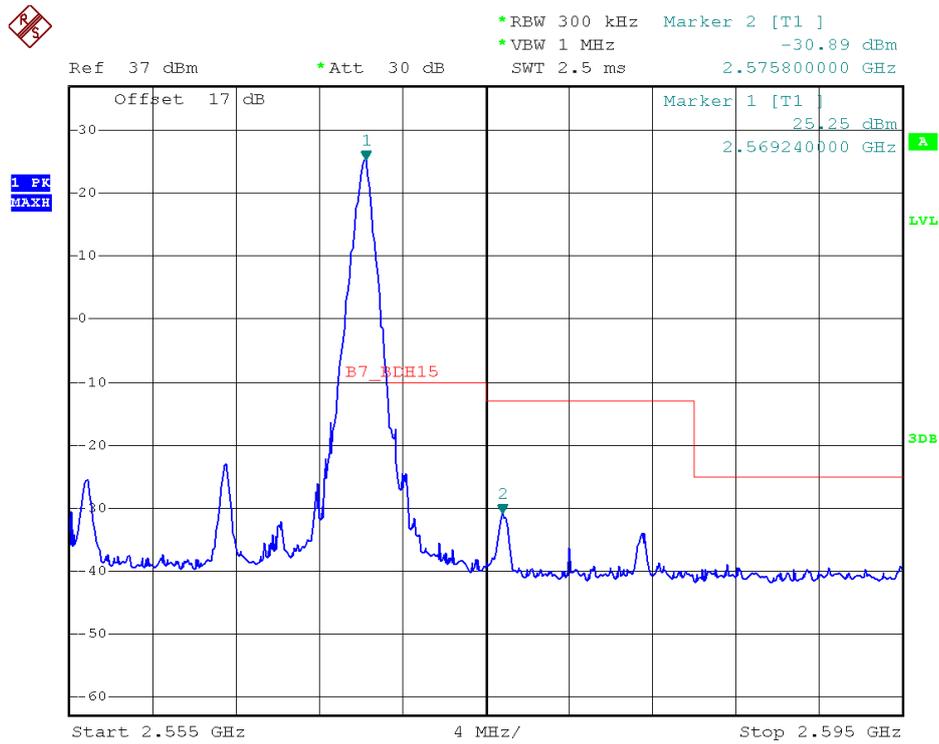
Band	LTE Band 7	Modulation	16QAM
Bandwidth	15MHz		



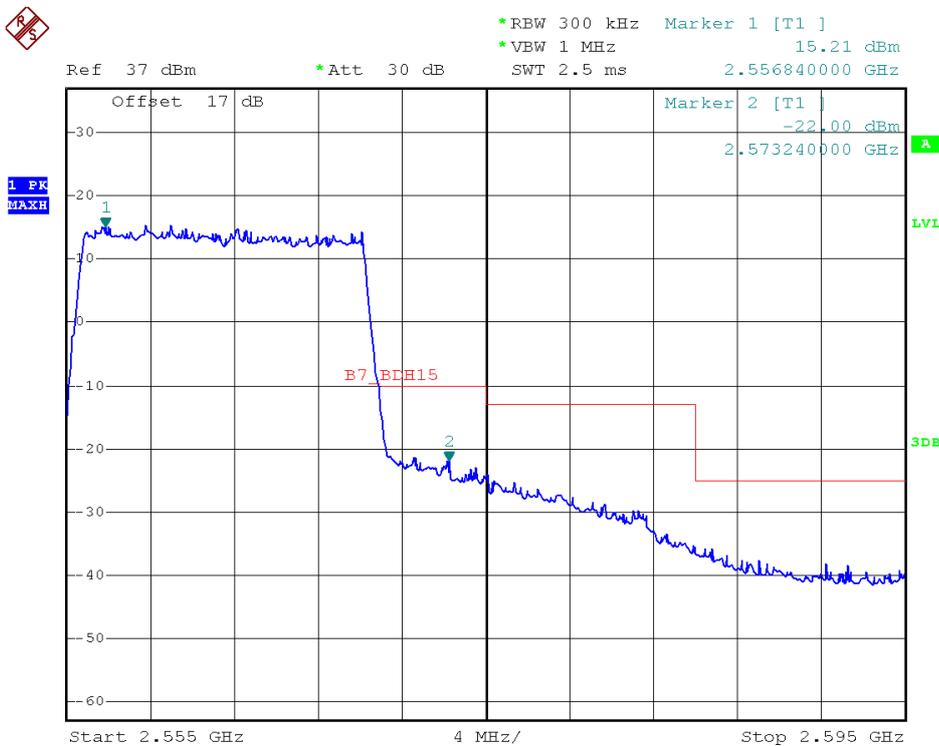
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



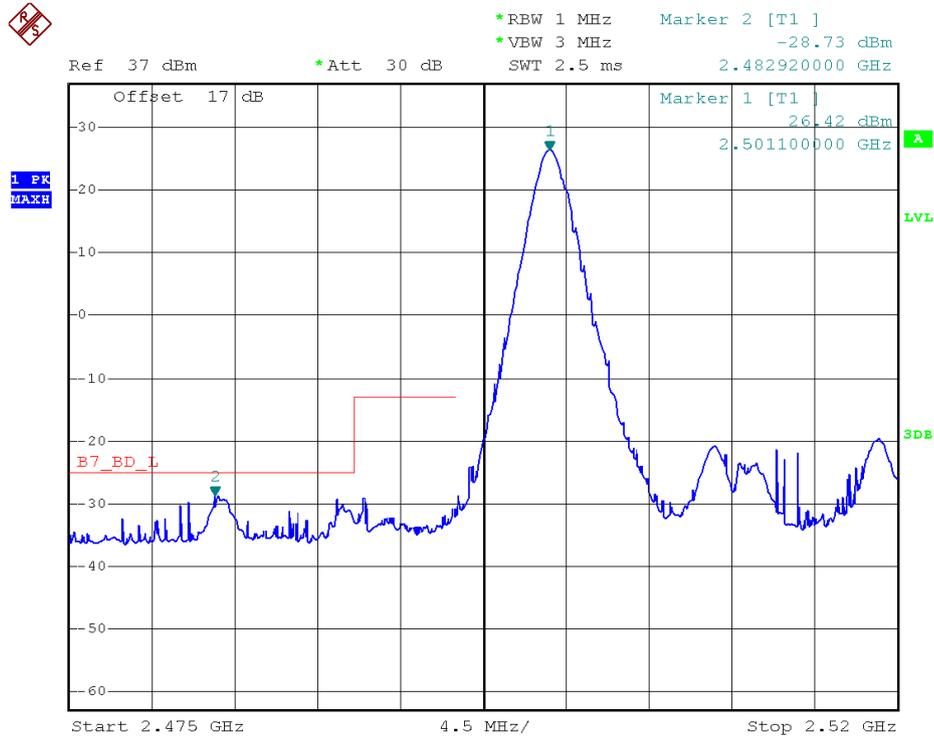
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



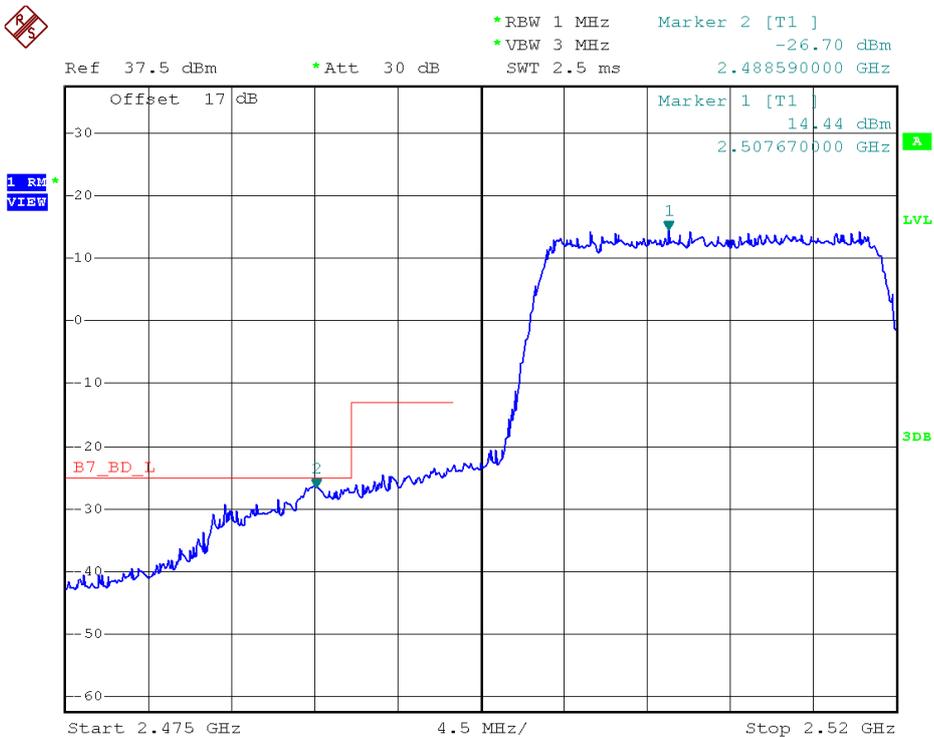
Higher Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



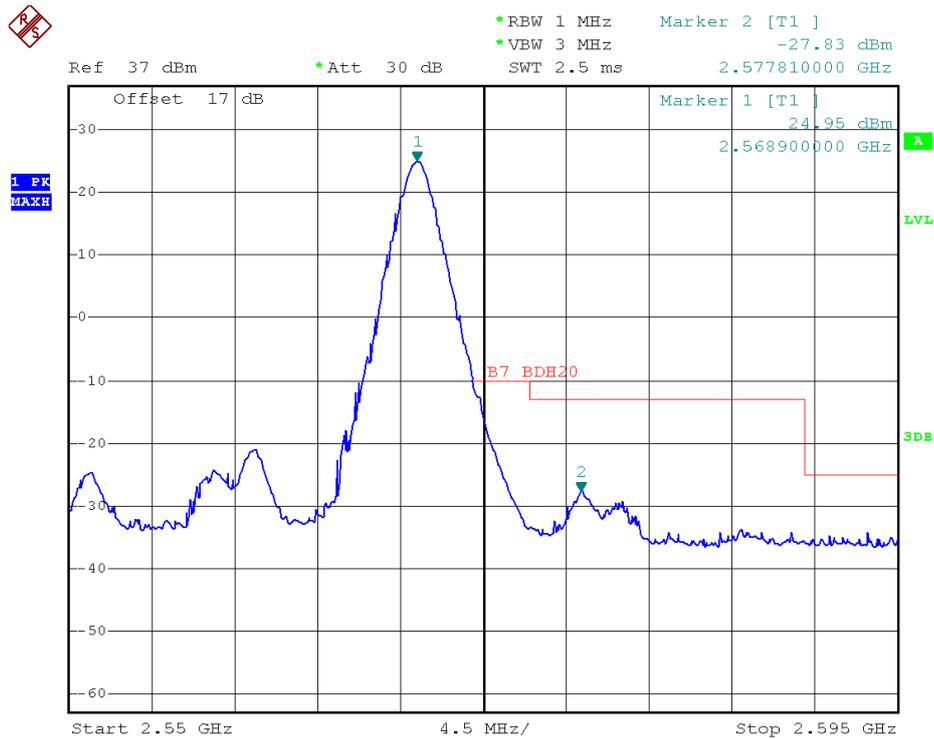
Band	LTE Band 7	Modulation	QPSK
Bandwidth	20MHz		



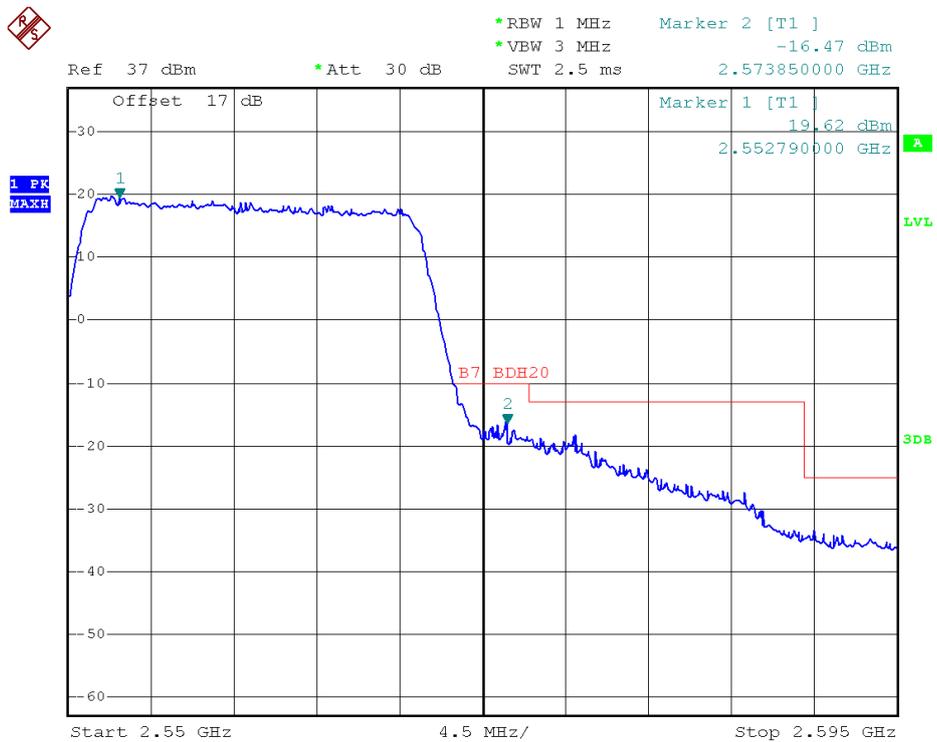
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK -RB Size 100, RB Offset 0



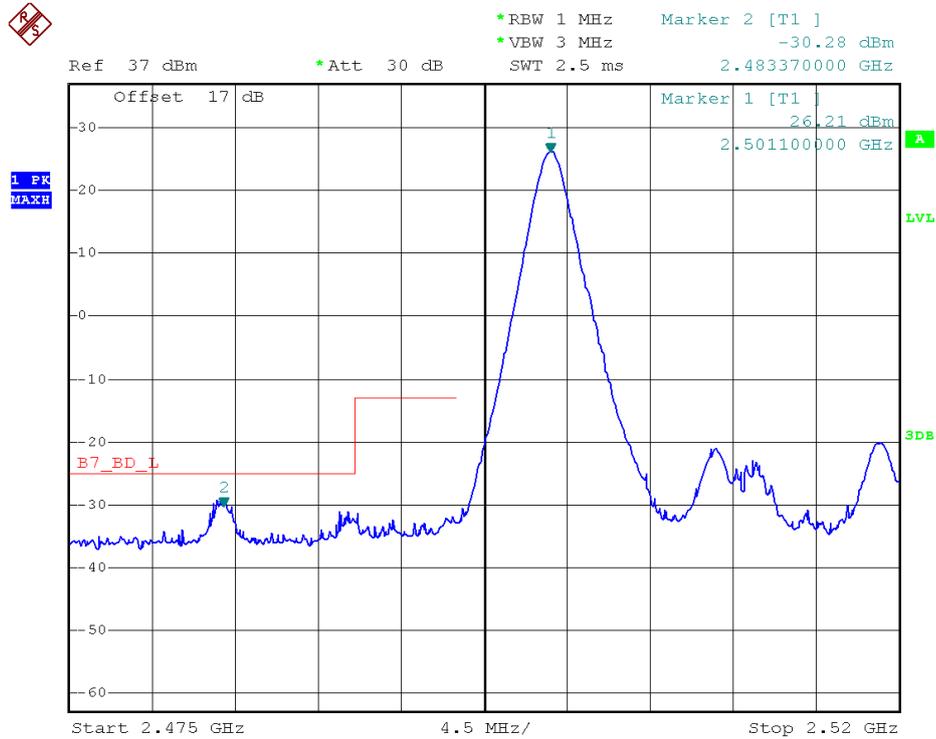
Higher Band Edge Plot for QPSK -RB Size 1, RB Offset 99



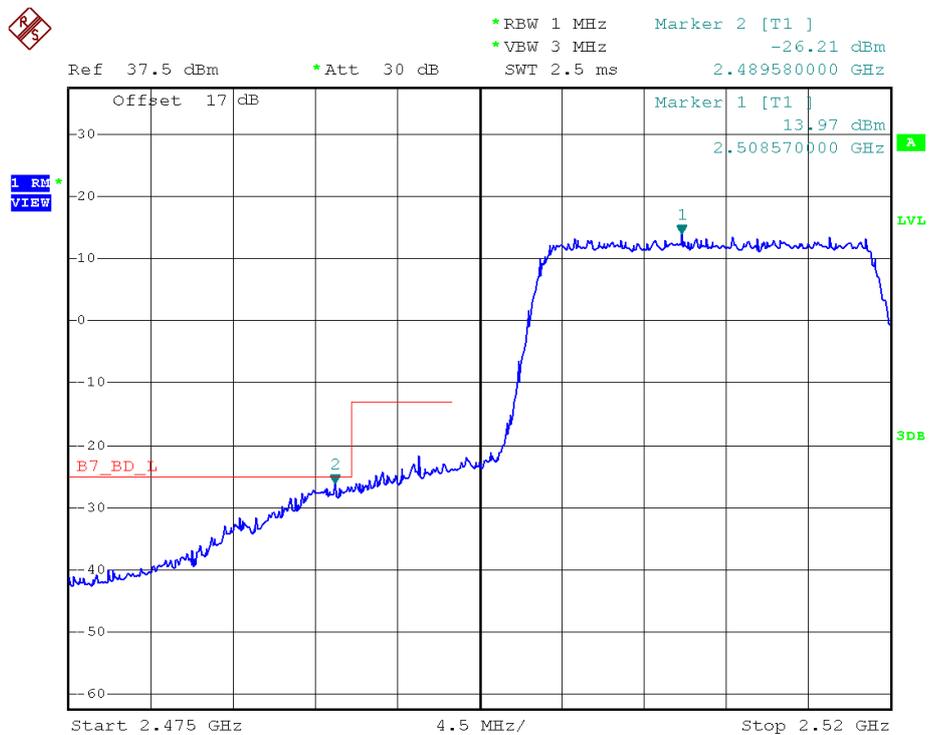
Higher Band Edge Plot for QPSK -RB Size 100, RB Offset 0



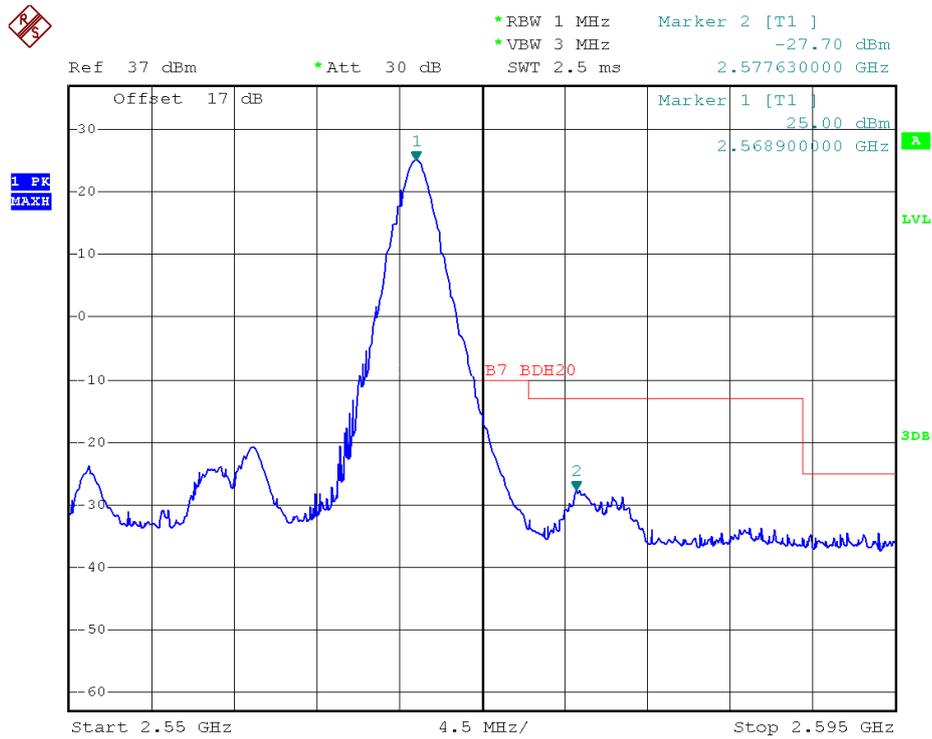
Band	LTE Band 7	Modulation	16QAM
Bandwidth	20MHz		



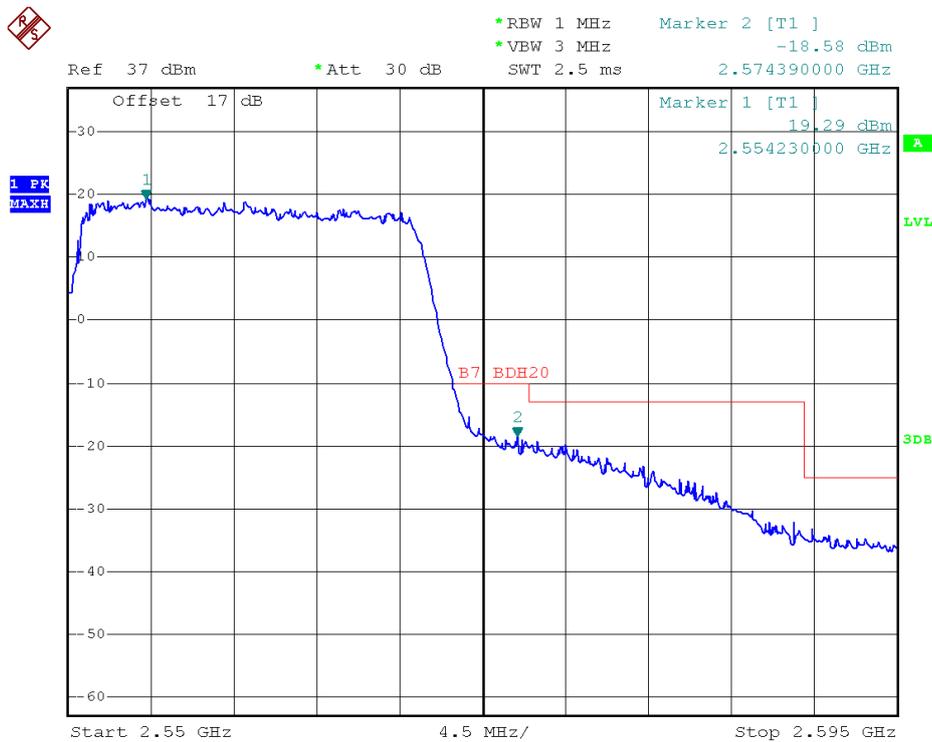
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



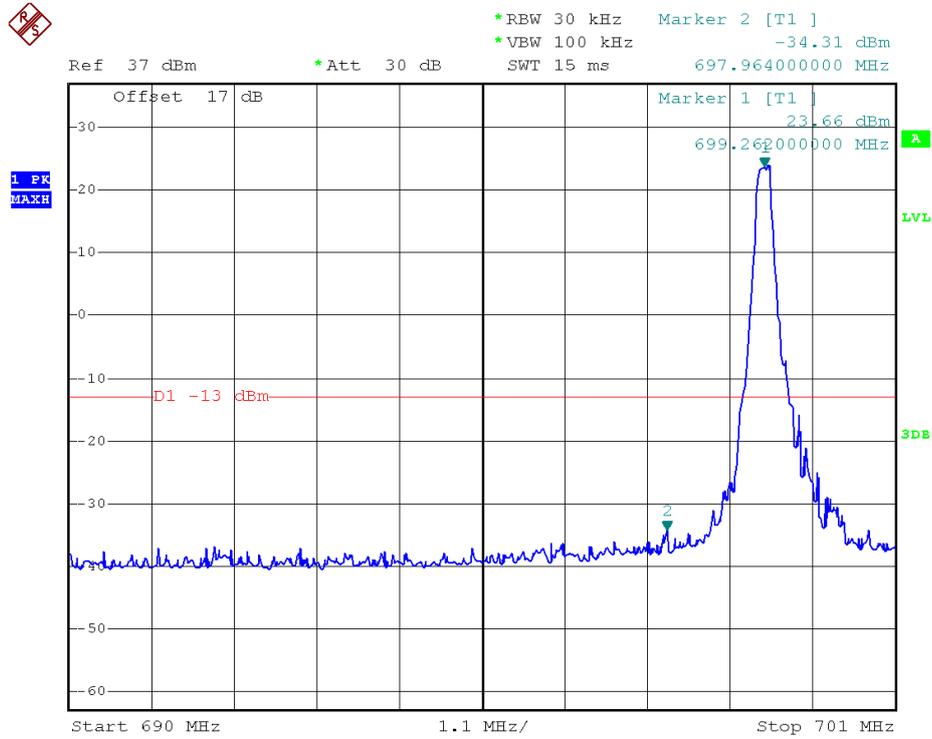
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



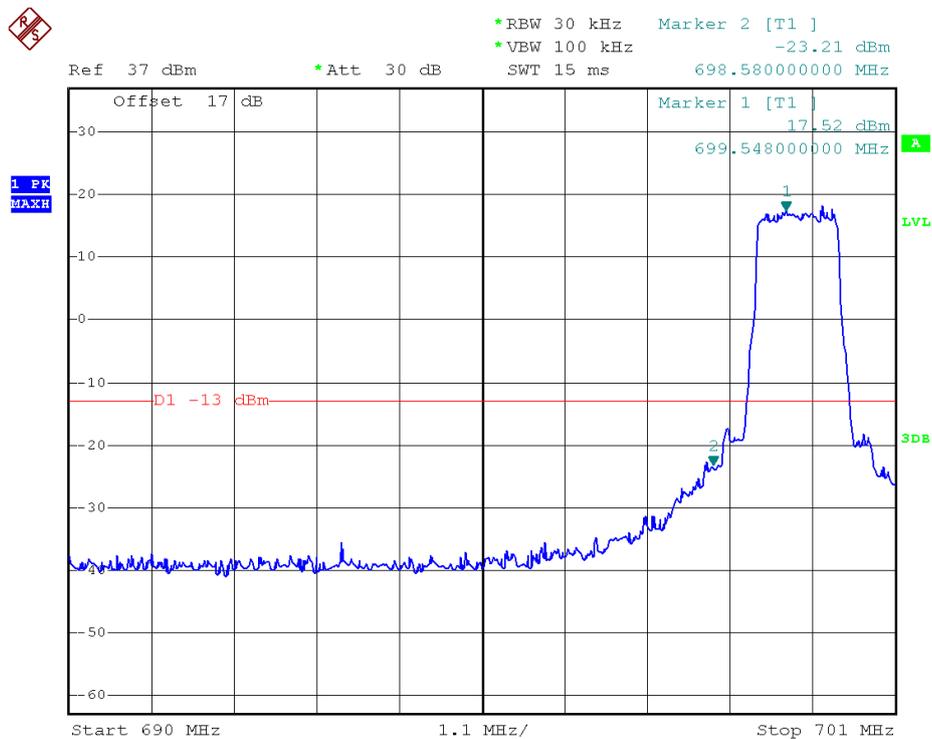
Higher Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



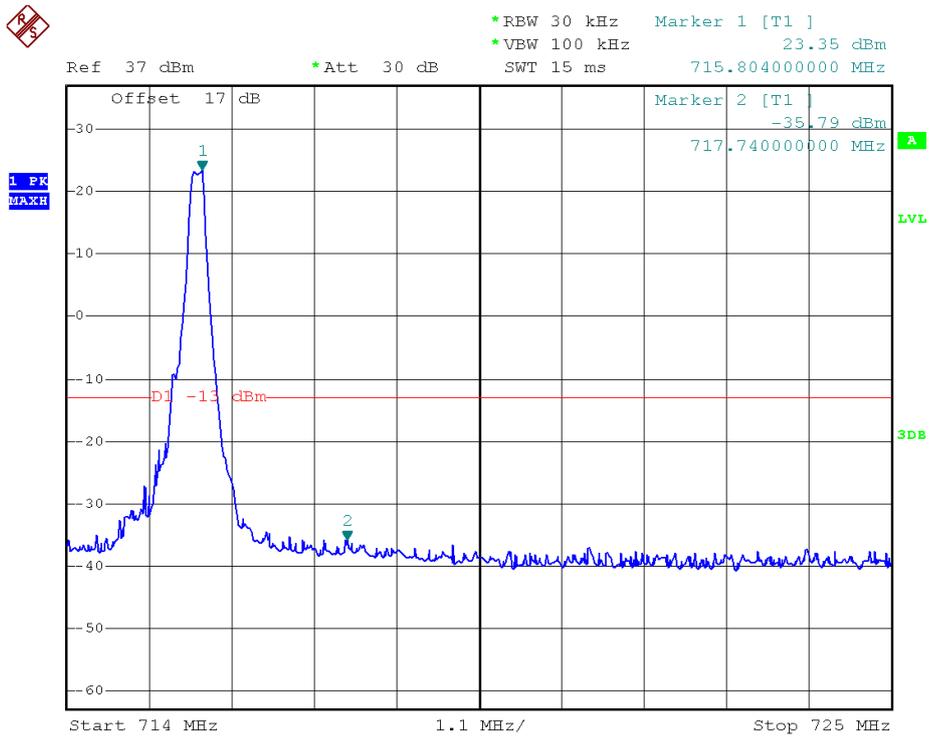
Band	LTE Band 12	Modulation	QPSK
Bandwidth	1.4MHz		



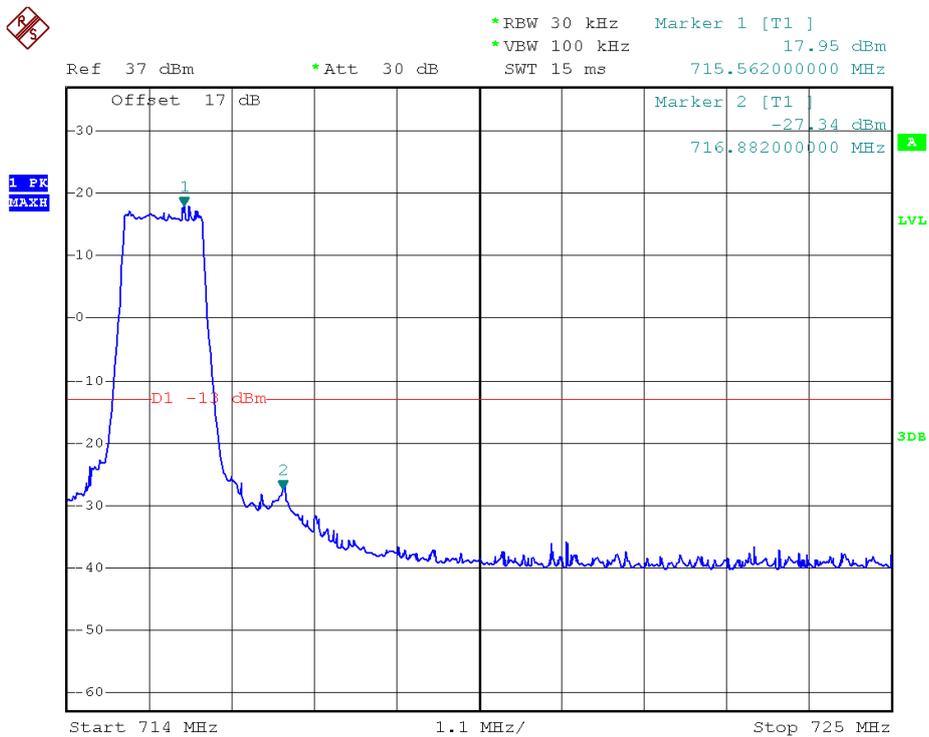
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



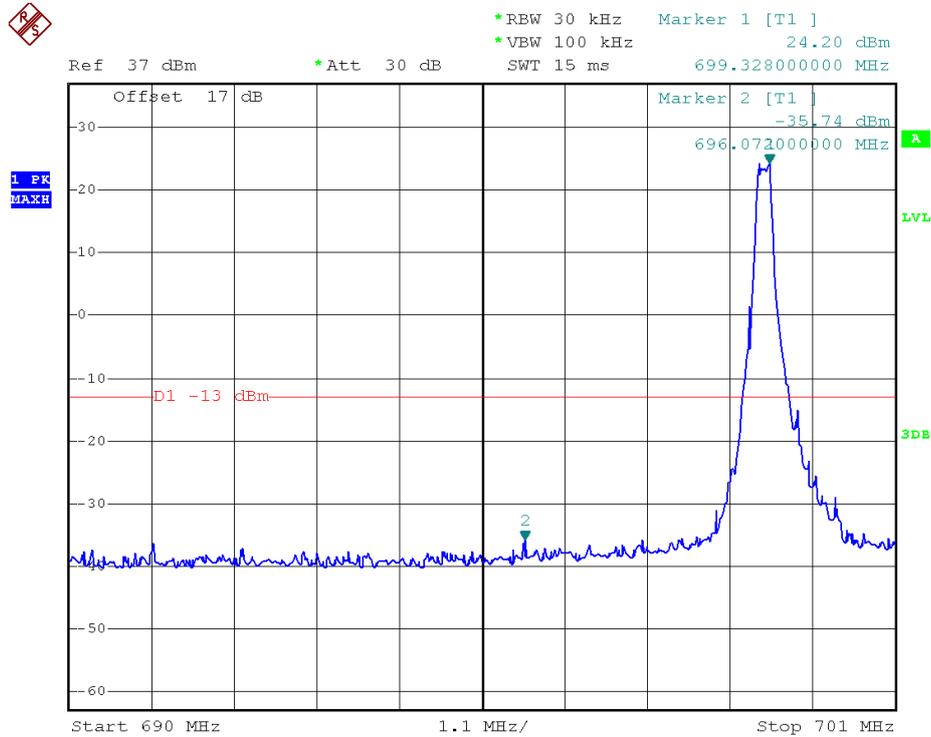
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



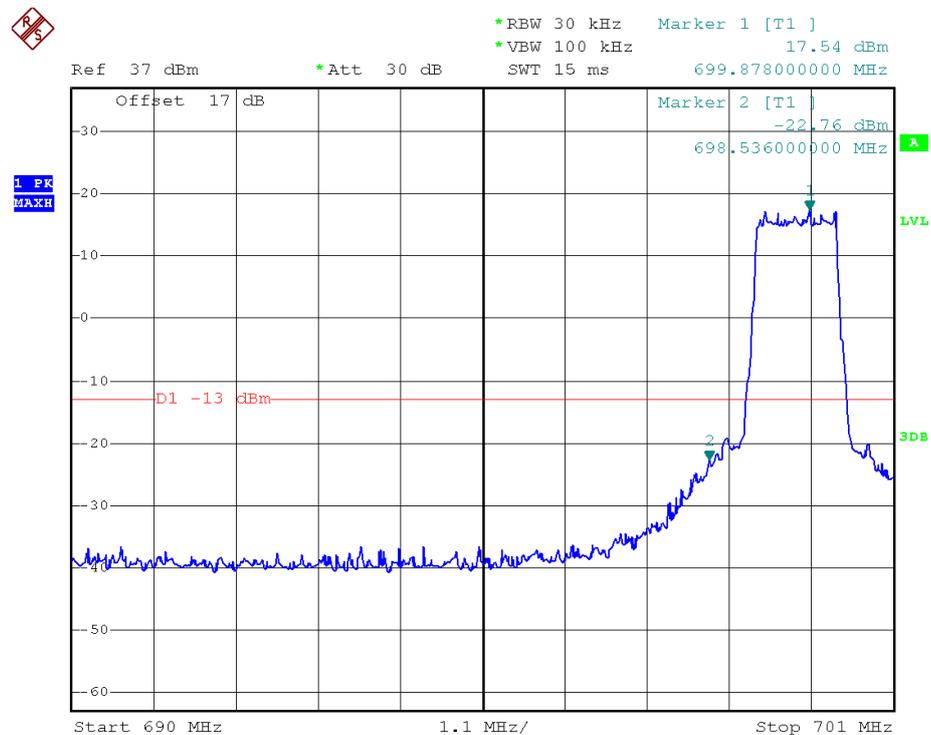
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



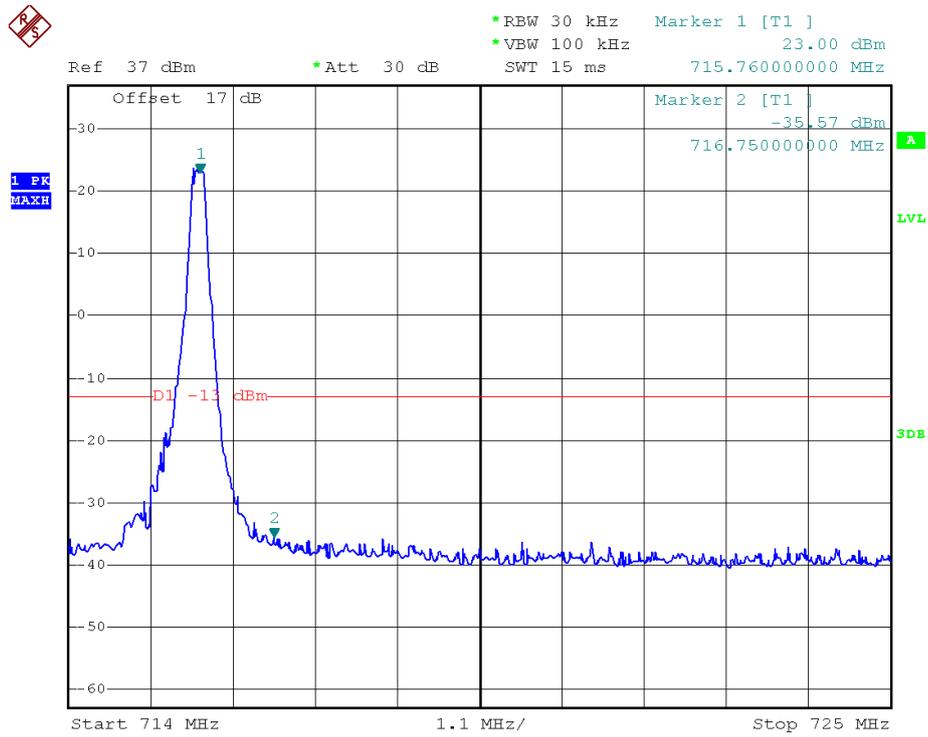
Band	LTE Band 12	Modulation	16QAM
Bandwidth	1.4MHz		



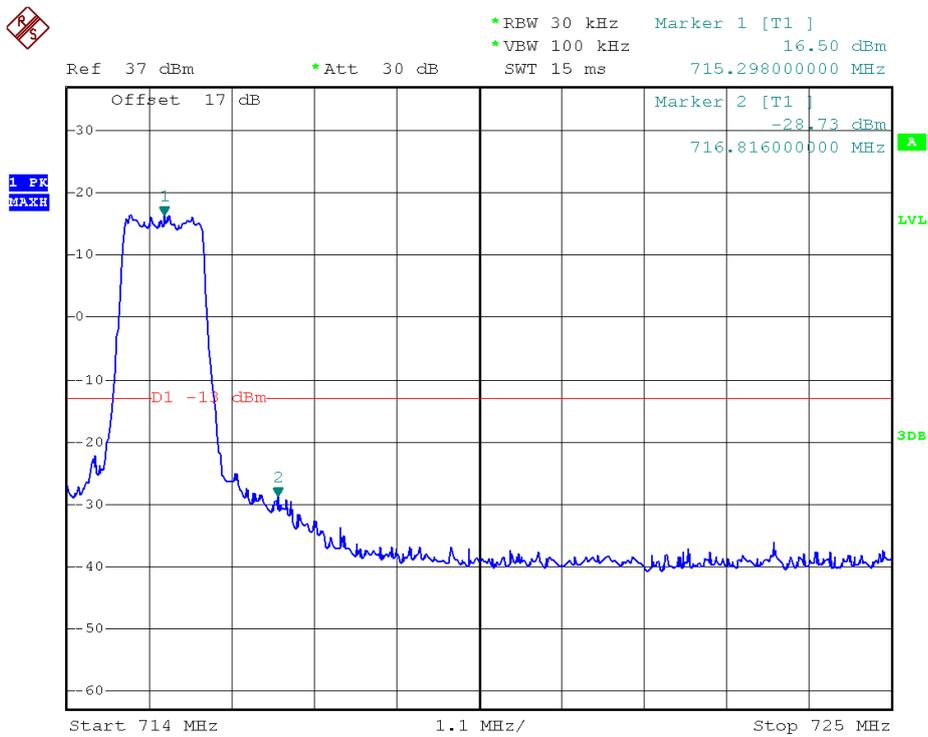
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



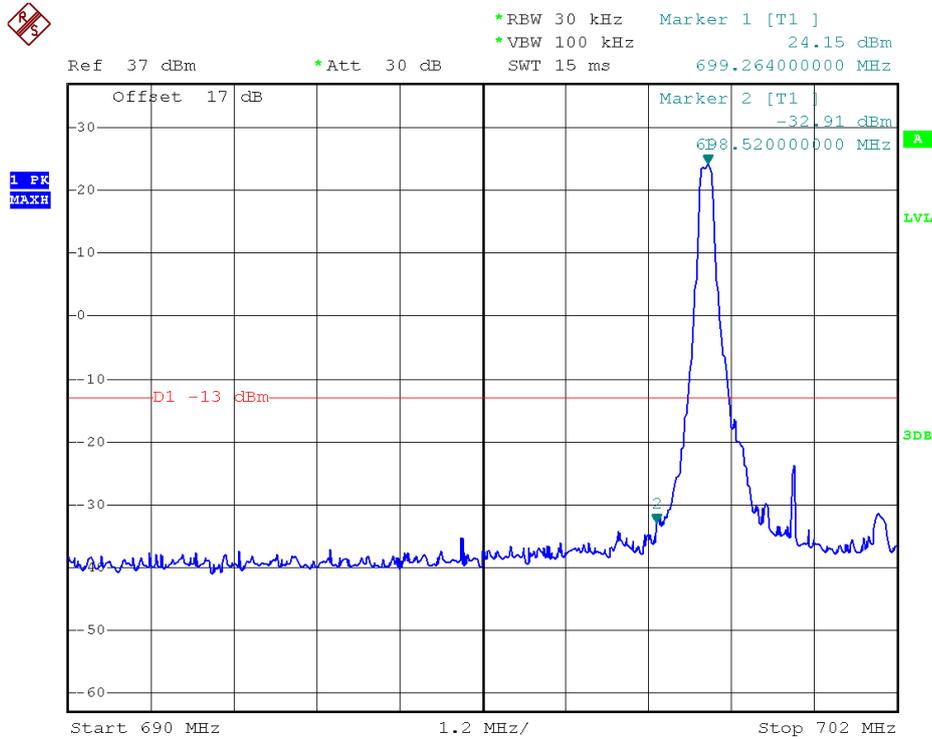
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



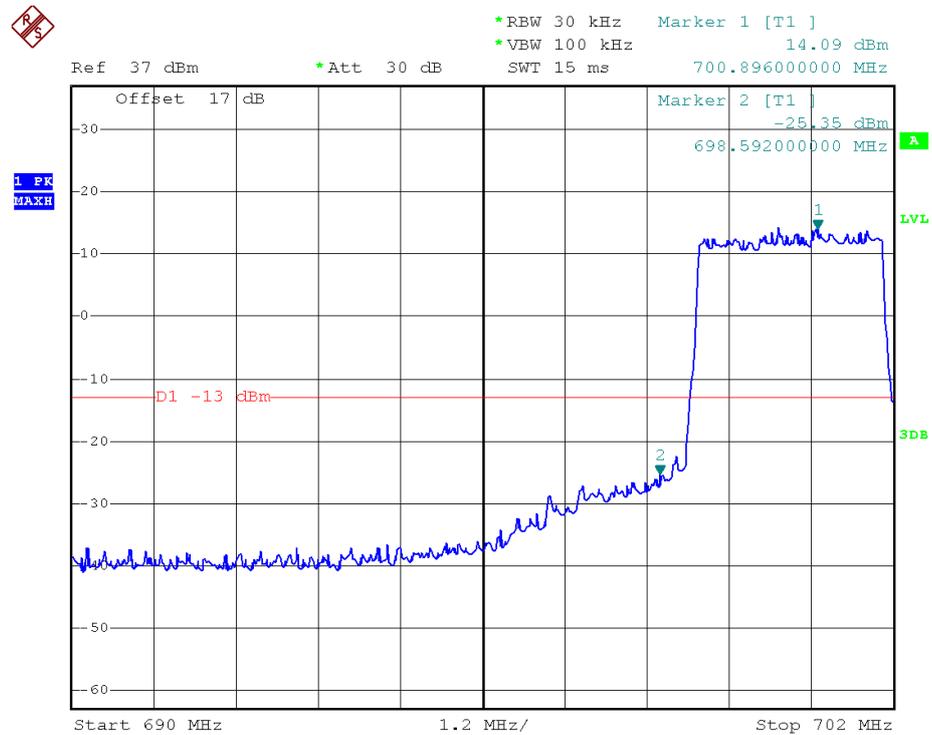
Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



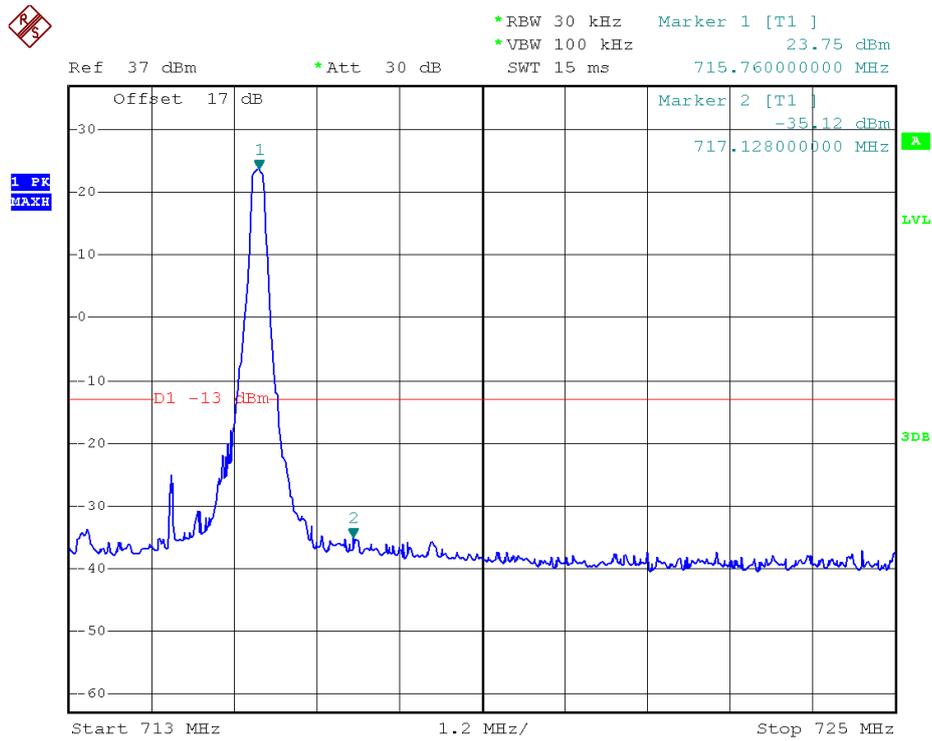
Band	LTE Band 12	Modulation	QPSK
Bandwidth	3MHz		



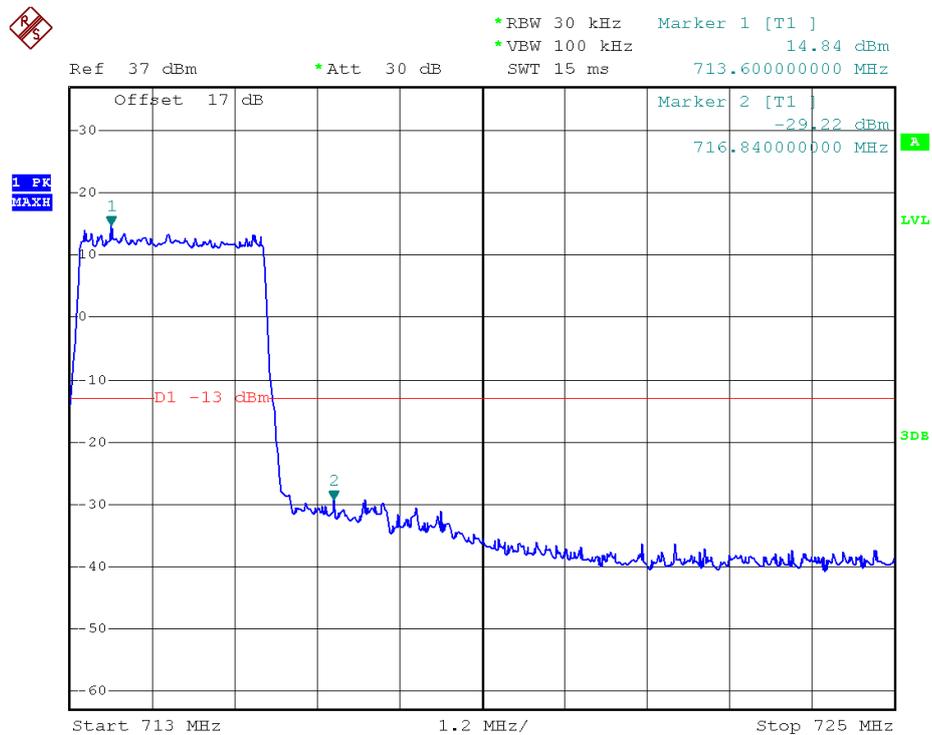
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



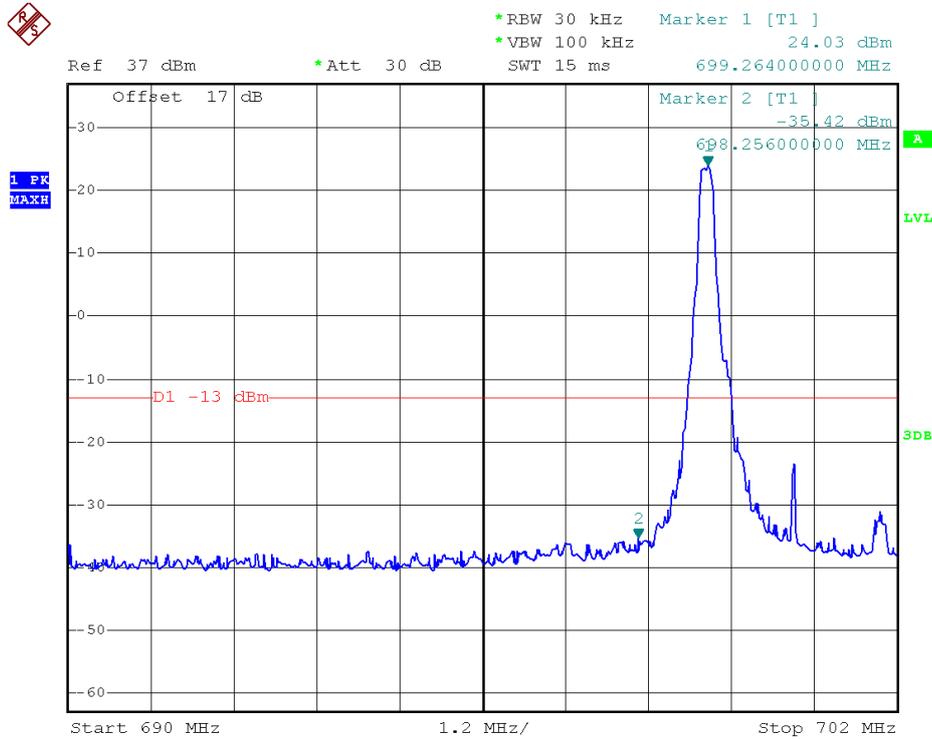
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



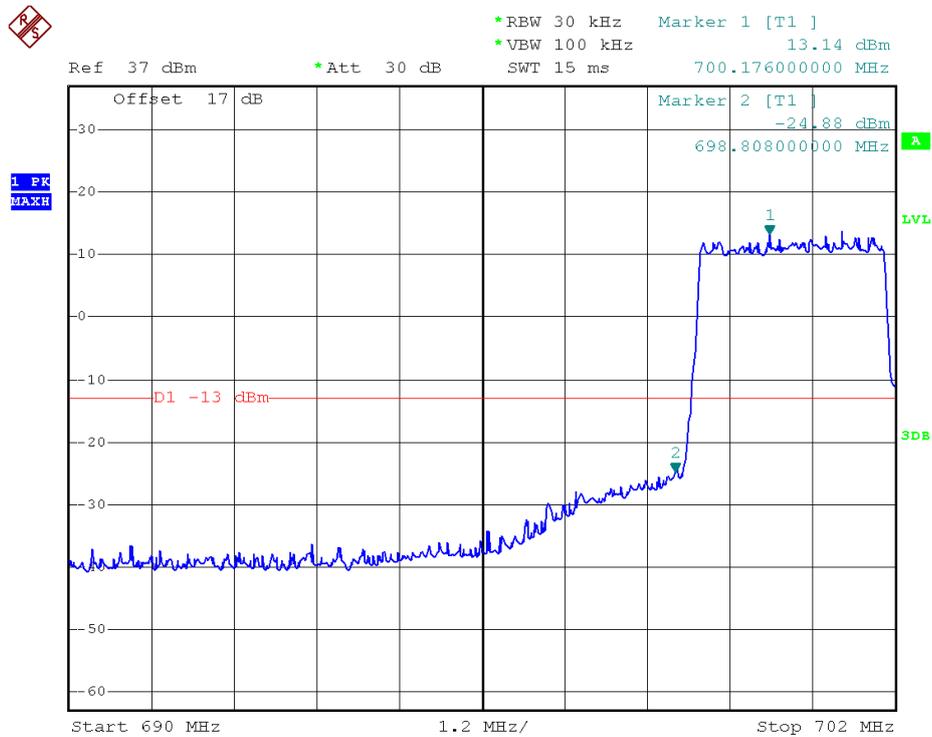
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



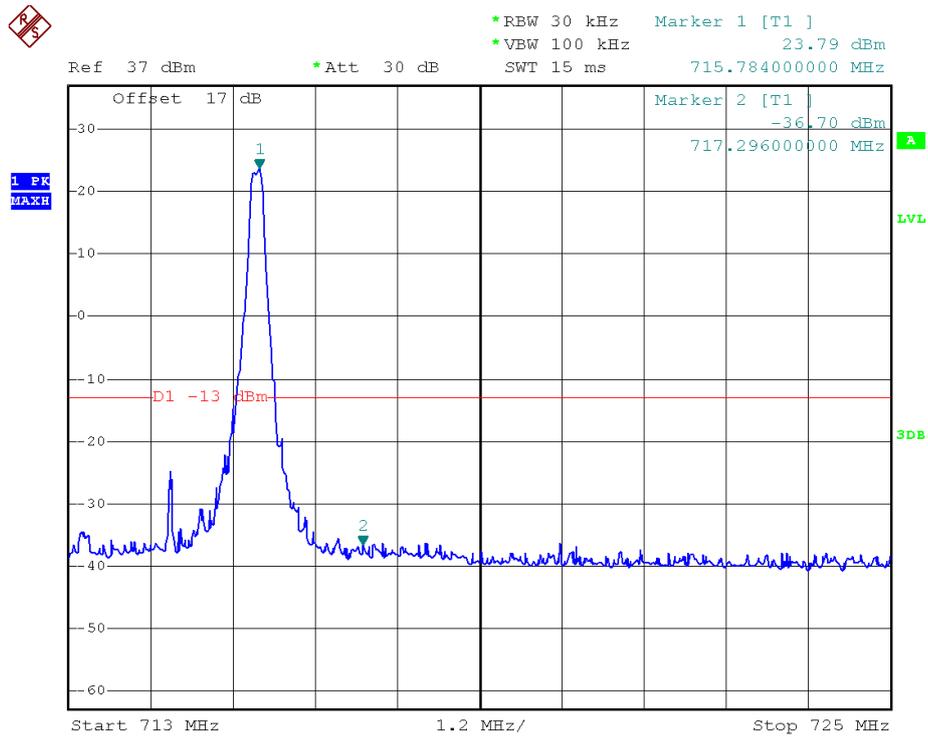
Band	LTE Band 12	Modulation	16QAM
Bandwidth	3MHz		



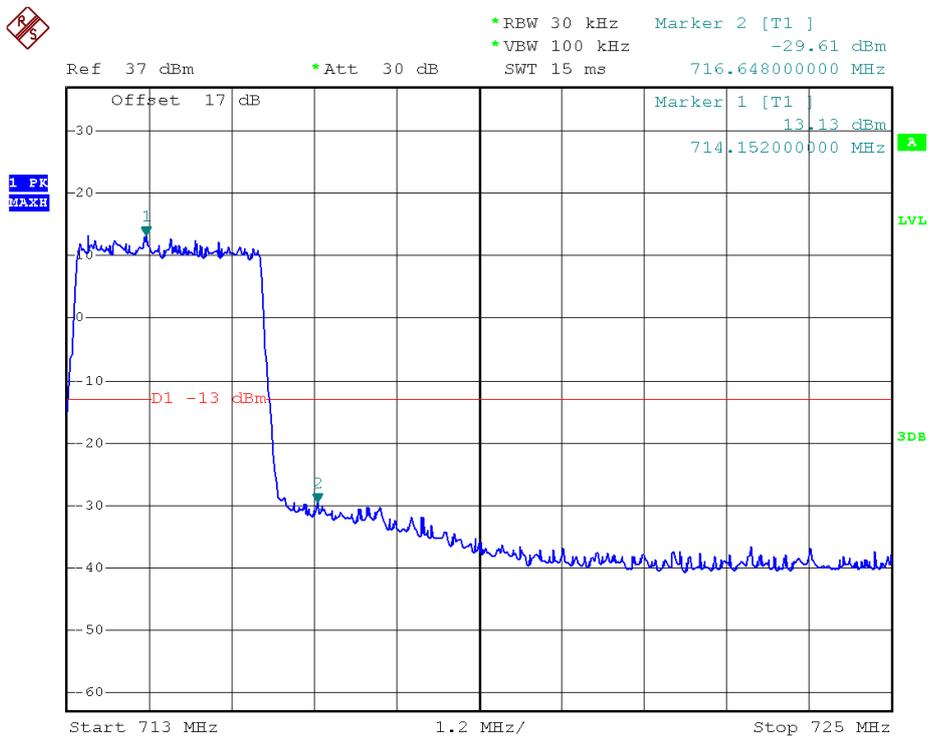
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



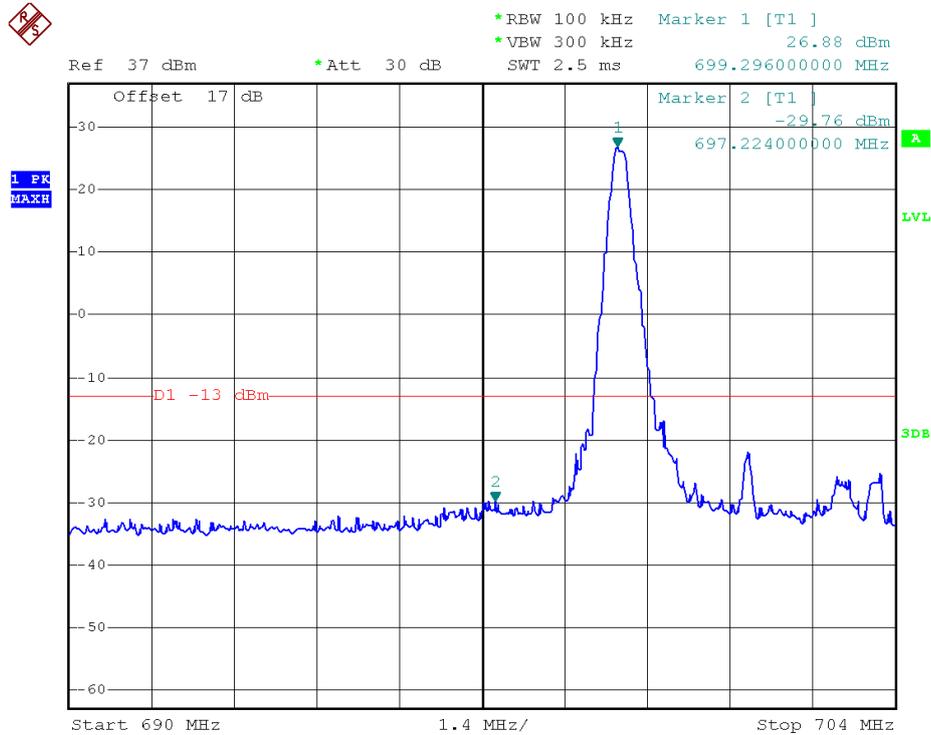
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



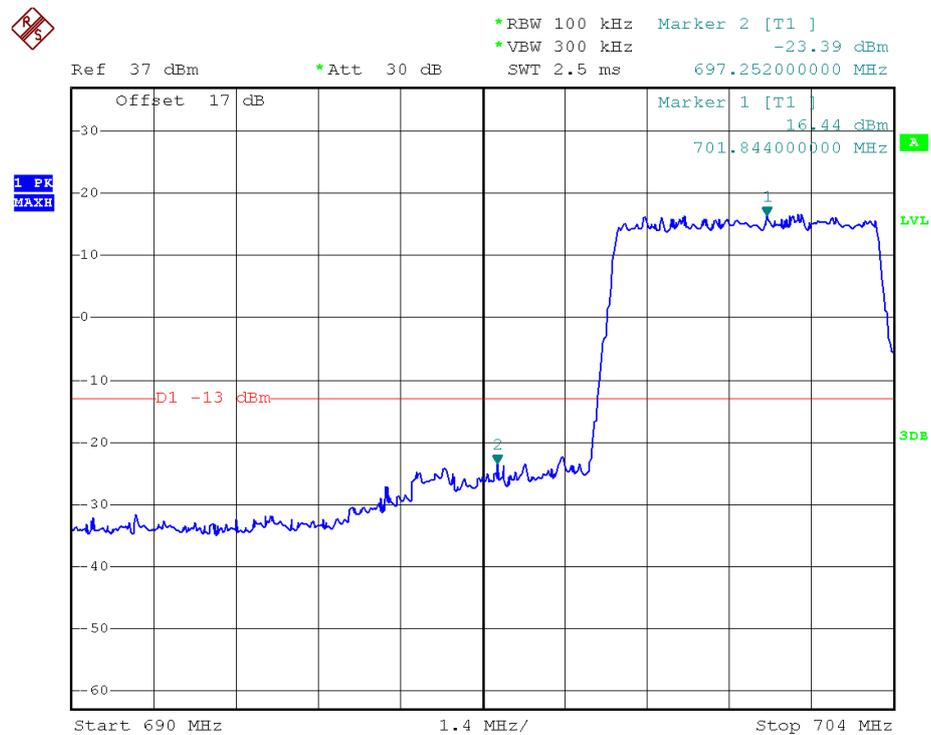
Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



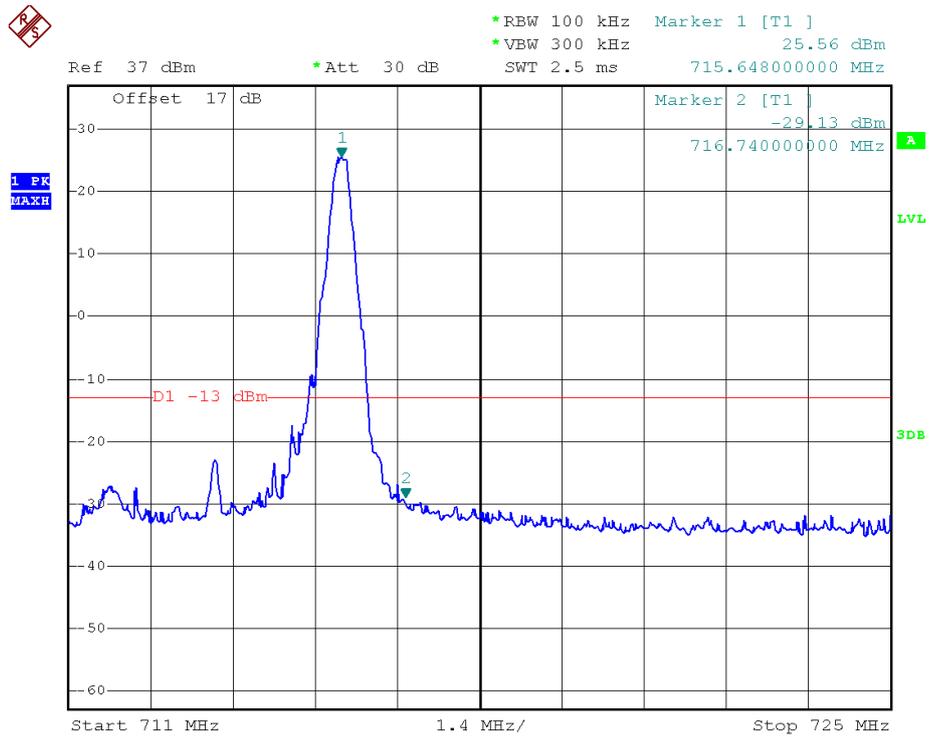
Band	LTE Band 12	Modulation	QPSK
Bandwidth	5MHz		



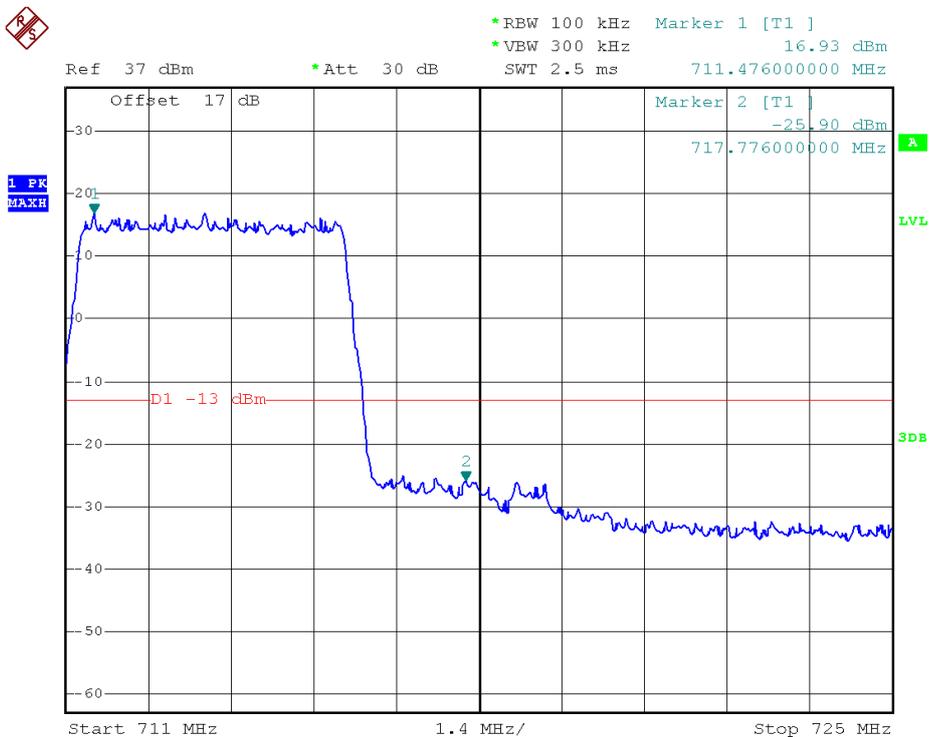
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



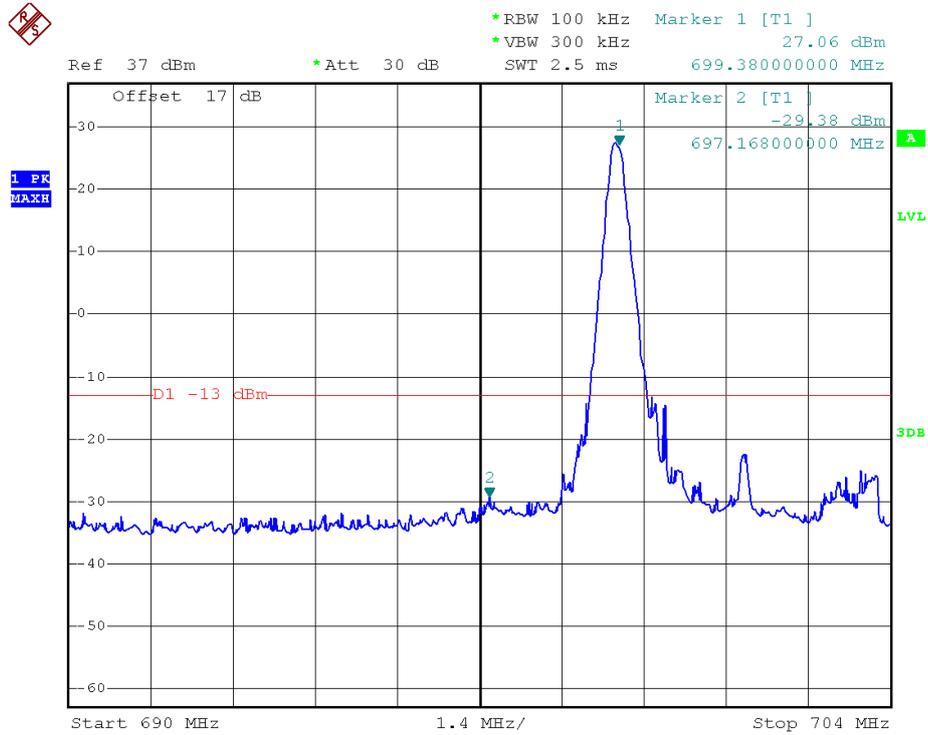
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



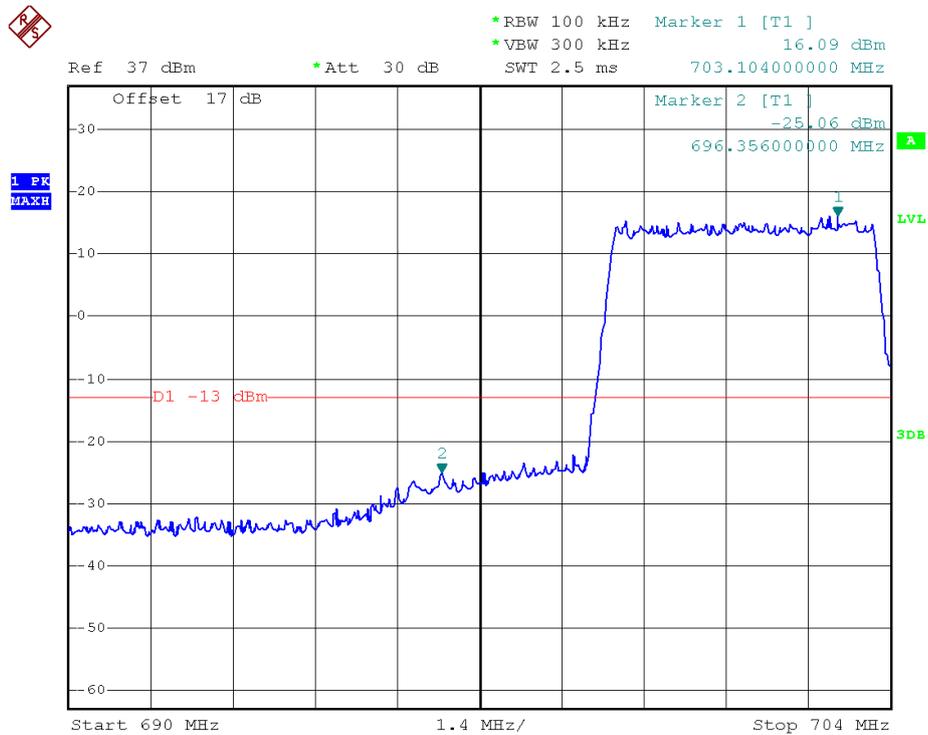
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



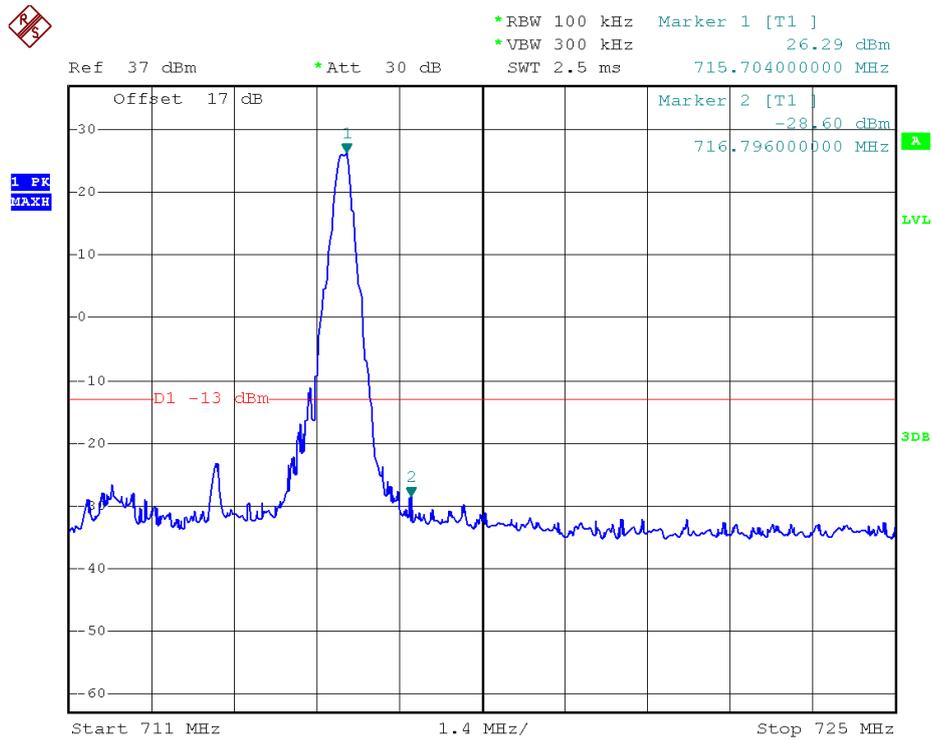
Band	LTE Band 12	Modulation	16QAM
Bandwidth	5MHz		



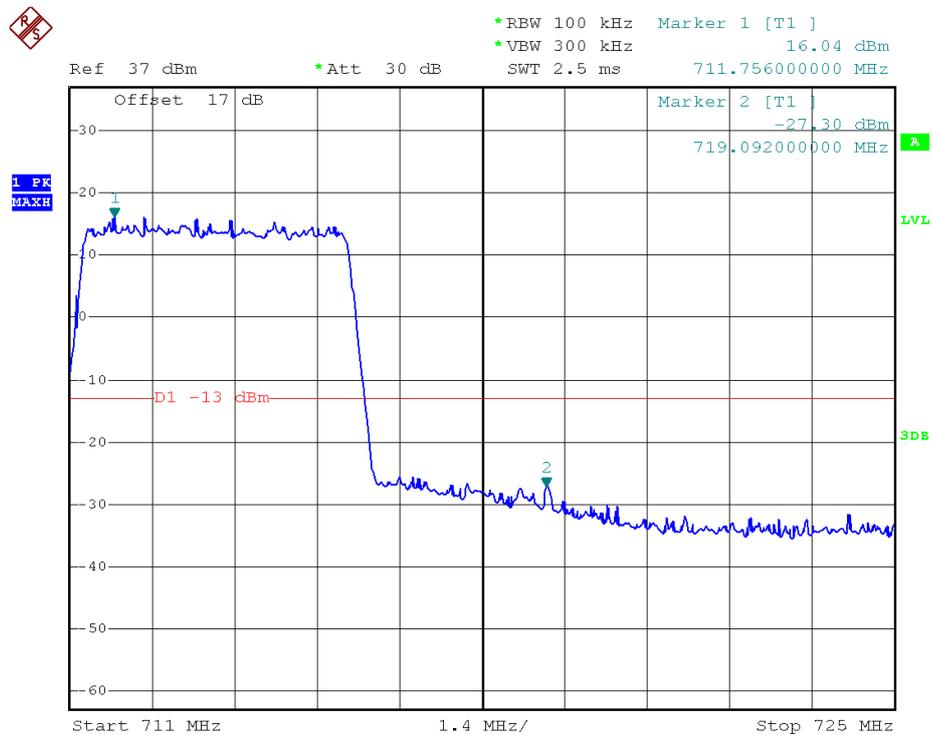
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



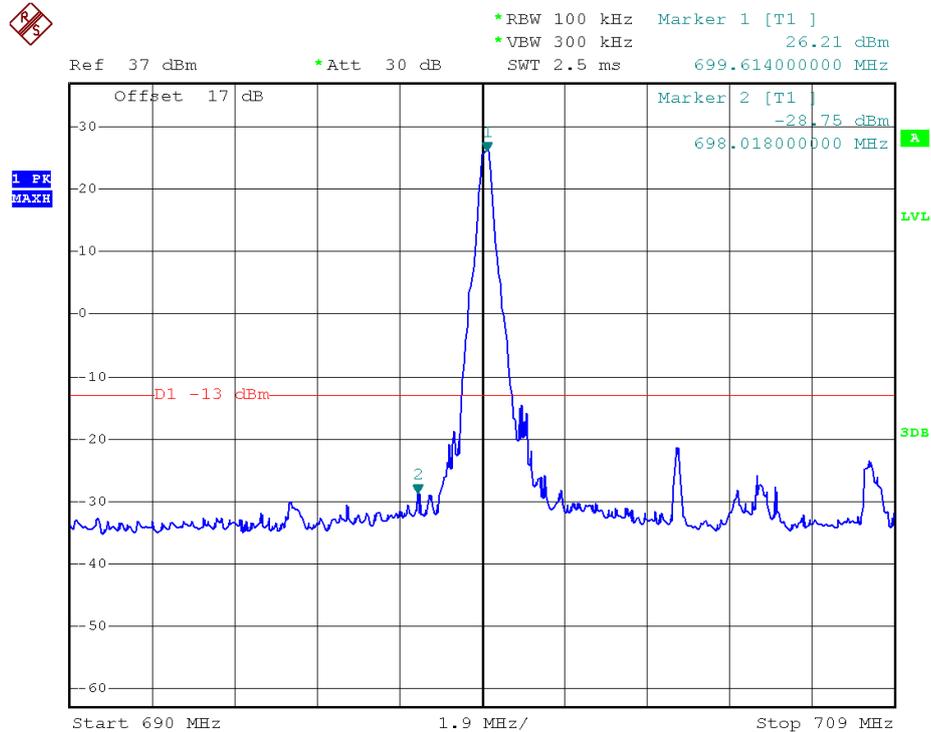
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



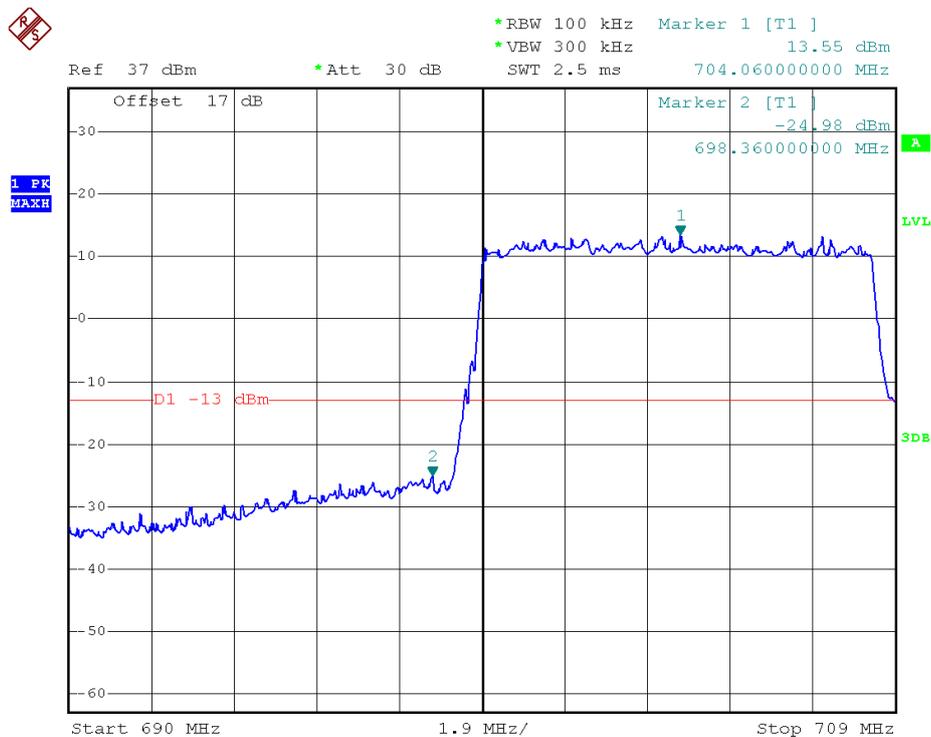
Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



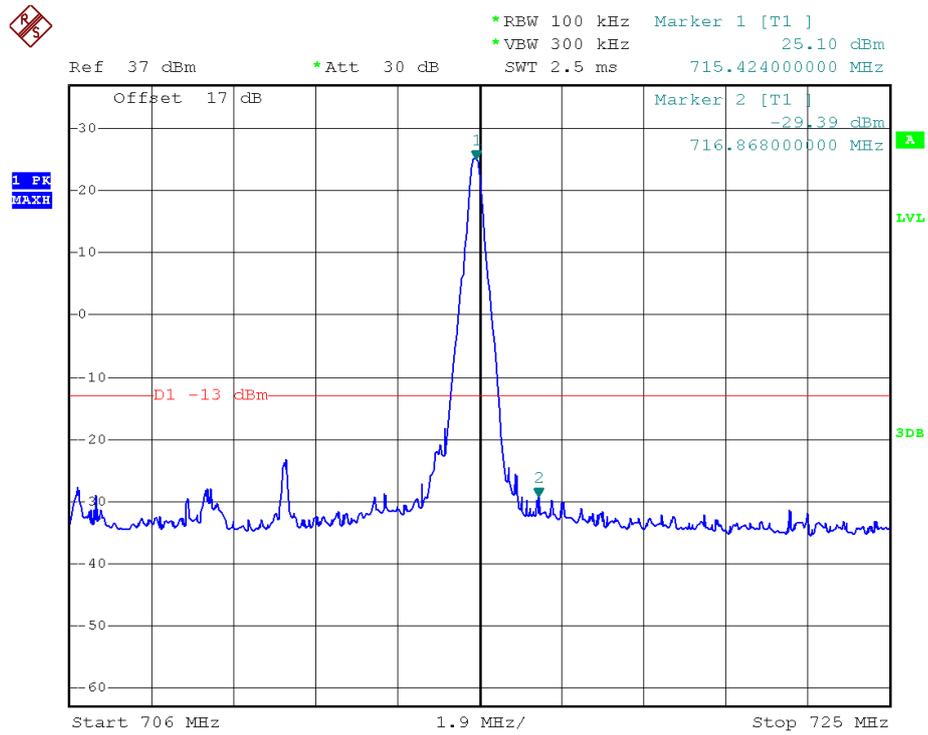
Band	LTE Band 12	Modulation	QPSK
Bandwidth	10MHz		



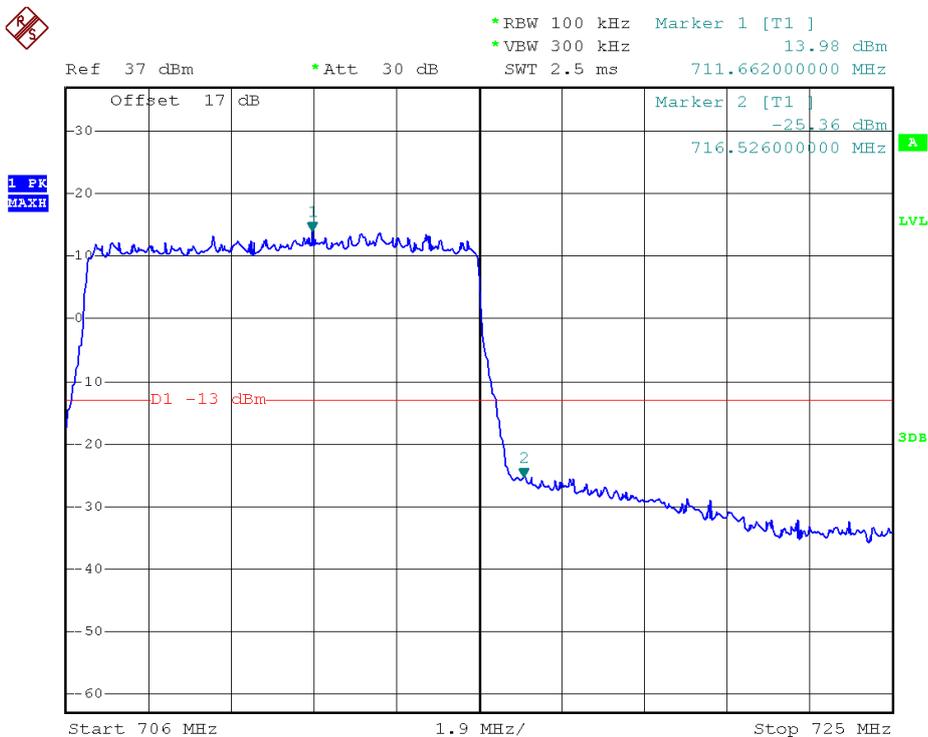
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



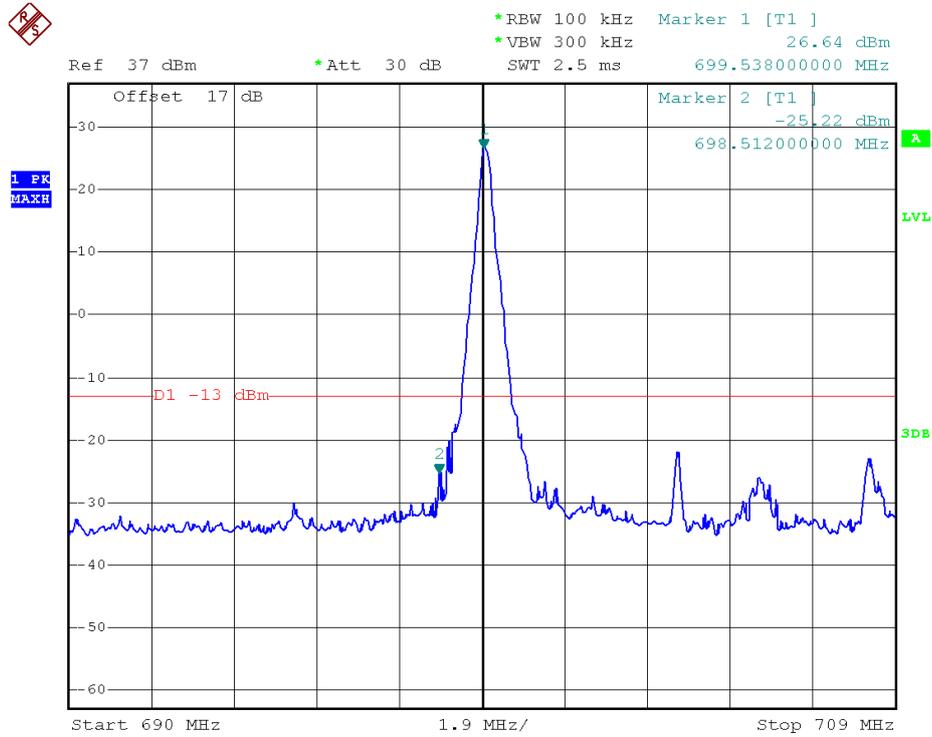
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



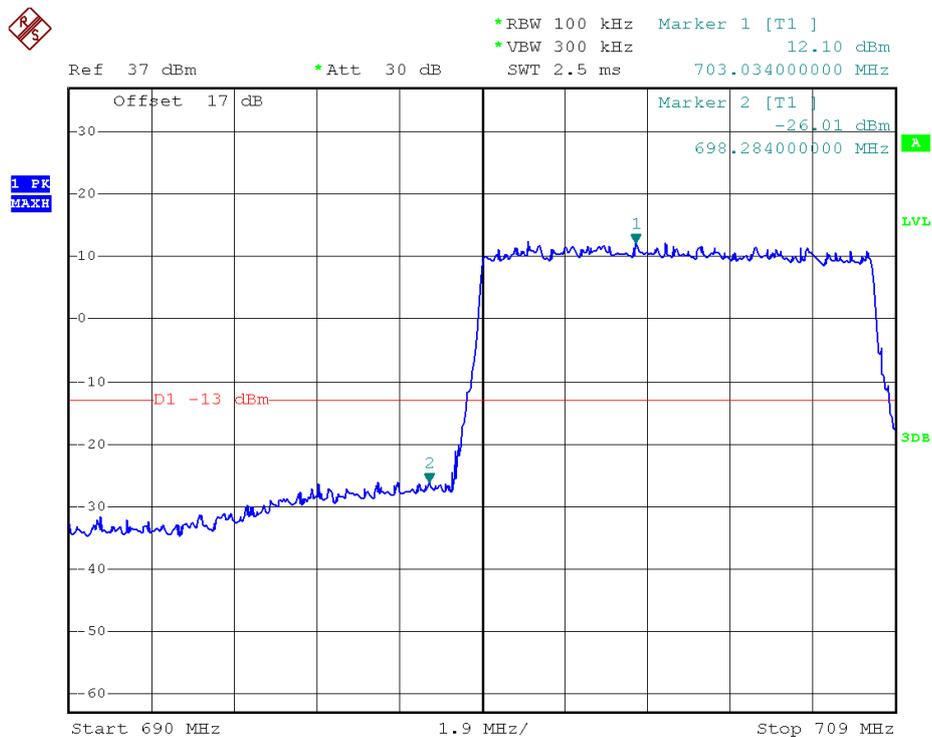
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



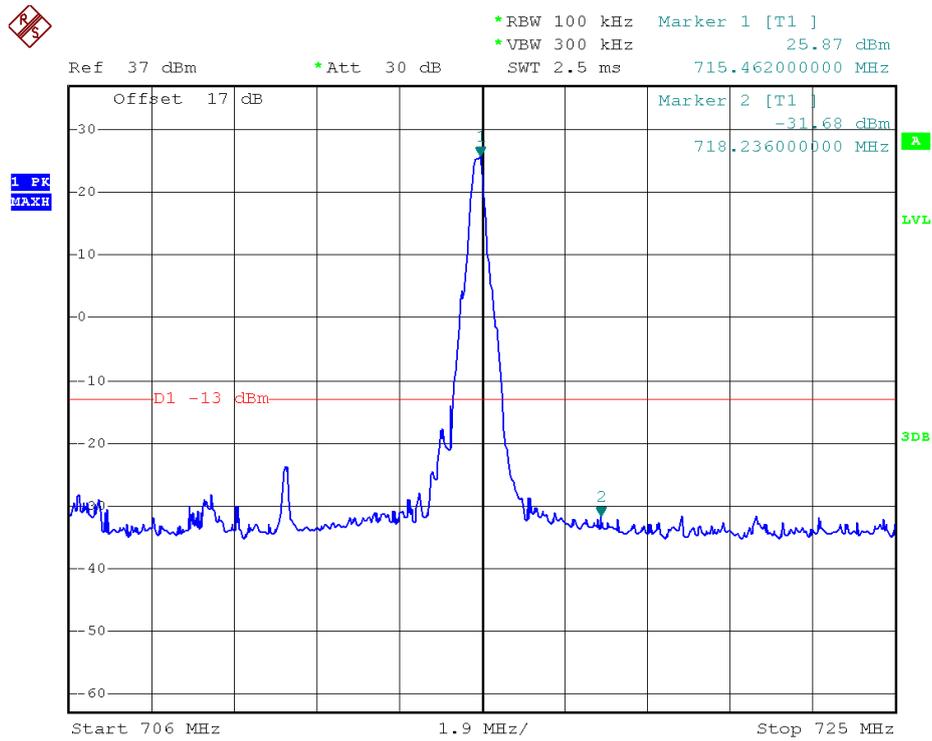
Band	LTE Band 12	Modulation	16QAM
Bandwidth	10MHz		



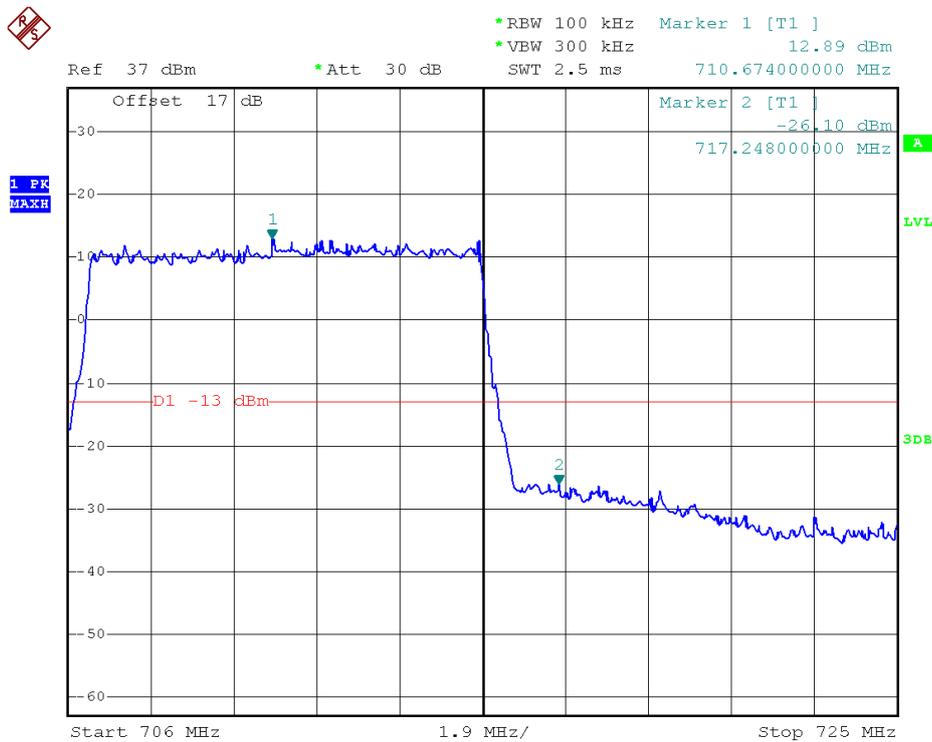
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0

2.7 Transmitter Radiated Power (EIRP/ERP)

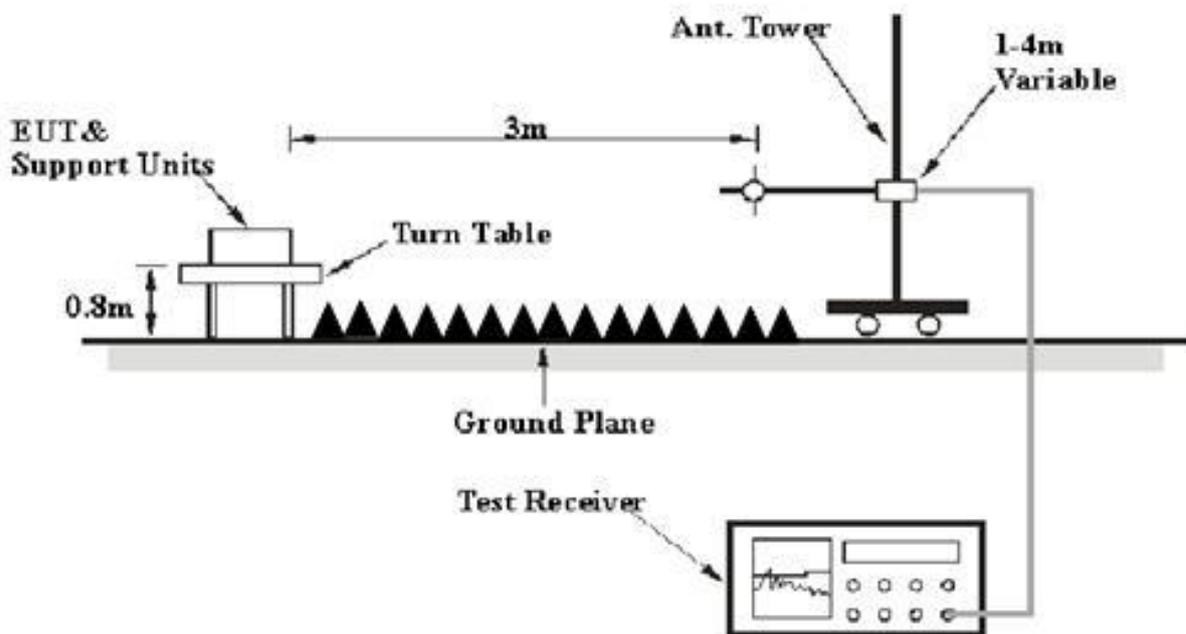
2.7.1 Requirement

Equivalent isotropic radiated power output measurements by substitution method according to ANSI /TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2 / 7 and 1 watt with LTE band 4.

2.7.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3 Test Setup



2.7.4 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer which used a channel power option across EUT's signal



bandwidth per section 4.0 of KDB 971168 D01v02r02.

4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm): Input power to substitution antenna.

G_s (dBi or dBd): Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

AF (dB/m): Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

**2.7.5 Test Result of ERP/EIRP**

1. LTE Band 2 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
2	1.4	QPSK	1	2	1710.7	22.33	H	PASS
2	1.4	QPSK	1	5	1732.5	22.30	H	PASS
2	1.4	QPSK	3	2	1754.3	22.32	H	PASS
2	1.4	QPSK	1	2	1710.7	21.88	V	PASS
2	1.4	QPSK	1	5	1732.5	21.85	V	PASS
2	1.4	QPSK	3	2	1754.3	21.87	V	PASS
2	1.4	16QAM	1	0	1710.7	21.48	H	PASS
2	1.4	16QAM	1	2	1732.5	21.42	H	PASS
2	1.4	16QAM	3	2	1754.3	21.53	H	PASS
2	1.4	16QAM	1	0	1710.7	20.82	V	PASS
2	1.4	16QAM	1	2	1732.5	20.87	V	PASS
2	1.4	16QAM	3	2	1754.3	20.88	V	PASS
2	3	QPSK	1	7	1711.5	22.29	H	PASS
2	3	QPSK	1	14	1732.5	22.35	H	PASS
2	3	QPSK	1	0	1753.5	22.28	H	PASS
2	3	QPSK	1	7	1711.5	21.82	V	PASS
2	3	QPSK	1	14	1732.5	21.84	V	PASS
2	3	QPSK	1	0	1753.5	21.85	V	PASS
2	3	16QAM	1	14	1711.5	21.51	H	PASS
2	3	16QAM	1	0	1732.5	21.48	H	PASS
2	3	16QAM	1	0	1753.5	21.47	H	PASS
2	3	16QAM	1	14	1711.5	20.91	V	PASS
2	3	16QAM	1	0	1732.5	20.85	V	PASS
2	3	16QAM	1	0	1753.5	20.83	V	PASS
2	5	QPSK	1	0	1712.5	22.30	H	PASS
2	5	QPSK	1	0	1732.5	22.31	H	PASS
2	5	QPSK	1	24	1752.5	22.37	H	PASS
2	5	QPSK	1	0	1712.5	21.82	V	PASS
2	5	QPSK	1	0	1732.5	21.89	V	PASS
2	5	QPSK	1	24	1752.5	21.85	V	PASS
2	5	16QAM	1	12	1712.5	21.52	H	PASS
2	5	16QAM	1	0	1732.5	21.50	H	PASS
2	5	16QAM	1	12	1752.5	21.55	H	PASS
2	5	16QAM	1	12	1712.5	20.85	V	PASS
2	5	16QAM	1	0	1732.5	20.84	V	PASS
2	5	16QAM	1	12	1752.5	20.89	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
2	10	QPSK	1	0	1715	22.31	H	PASS
2	10	QPSK	1	0	1732.5	22.27	H	PASS
2	10	QPSK	1	49	1750	22.32	H	PASS
2	10	QPSK	1	0	1715	21.85	V	PASS
2	10	QPSK	1	0	1732.5	21.84	V	PASS
2	10	QPSK	1	49	1750	21.88	V	PASS
2	10	16QAM	1	0	1715	21.48	H	PASS
2	10	16QAM	1	0	1732.5	21.50	H	PASS
2	10	16QAM	1	24	1750	21.52	H	PASS
2	10	16QAM	1	0	1715	20.84	V	PASS
2	10	16QAM	1	0	1732.5	20.90	V	PASS
2	10	16QAM	1	24	1750	20.85	V	PASS
2	15	QPSK	1	0	1717.5	22.38	H	PASS
2	15	QPSK	1	0	1732.5	22.39	H	PASS
2	15	QPSK	1	74	1747.5	22.33	H	PASS
2	15	QPSK	1	0	1717.5	21.82	V	PASS
2	15	QPSK	1	0	1732.5	21.91	V	PASS
2	15	QPSK	1	74	1747.5	21.87	V	PASS
2	15	16QAM	1	0	1717.5	21.49	H	PASS
2	15	16QAM	1	0	1732.5	21.57	H	PASS
2	15	16QAM	1	74	1747.5	21.53	H	PASS
2	15	16QAM	1	0	1717.5	20.89	V	PASS
2	15	16QAM	1	0	1732.5	20.92	V	PASS
2	15	16QAM	1	74	1747.5	20.87	V	PASS
2	20	QPSK	1	0	1720	22.41	H	PASS
2	20	QPSK	1	0	1732.5	22.35	H	PASS
2	20	QPSK	1	0	1745	22.39	H	PASS
2	20	QPSK	1	0	1720	21.85	V	PASS
2	20	QPSK	1	0	1732.5	21.89	V	PASS
2	20	QPSK	1	0	1745	21.92	V	PASS
2	20	16QAM	1	0	1720	21.59	H	PASS
2	20	16QAM	1	0	1732.5	21.62	H	PASS
2	20	16QAM	1	49	1745	21.65	H	PASS
2	20	16QAM	1	0	1720	20.91	V	PASS
2	20	16QAM	1	0	1732.5	20.96	V	PASS
2	20	16QAM	1	49	1745	20.94	V	PASS



2. LTE Band 4 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
4	1.4	QPSK	3	0	1710.7	22.11	H	PASS
4	1.4	QPSK	3	2	1732.5	22.24	H	PASS
4	1.4	QPSK	1	2	1754.3	22.25	H	PASS
4	1.4	QPSK	3	0	1710.7	21.76	V	PASS
4	1.4	QPSK	3	2	1732.5	21.74	V	PASS
4	1.4	QPSK	1	2	1754.3	21.77	V	PASS
4	1.4	16QAM	3	2	1710.7	21.19	H	PASS
4	1.4	16QAM	3	2	1732.5	21.20	H	PASS
4	1.4	16QAM	3	2	1754.3	21.17	H	PASS
4	1.4	16QAM	3	2	1710.7	20.57	V	PASS
4	1.4	16QAM	3	2	1732.5	20.61	V	PASS
4	1.4	16QAM	3	2	1754.3	20.62	V	PASS
4	3	QPSK	1	0	1711.5	22.11	H	PASS
4	3	QPSK	1	0	1732.5	22.17	H	PASS
4	3	QPSK	1	7	1753.5	22.15	H	PASS
4	3	QPSK	1	0	1711.5	21.60	V	PASS
4	3	QPSK	1	0	1732.5	21.64	V	PASS
4	3	QPSK	1	7	1753.5	21.71	V	PASS
4	3	16QAM	1	14	1711.5	21.22	H	PASS
4	3	16QAM	1	14	1732.5	21.14	H	PASS
4	3	16QAM	1	14	1753.5	21.24	H	PASS
4	3	16QAM	1	14	1711.5	20.57	V	PASS
4	3	16QAM	1	14	1732.5	20.52	V	PASS
4	3	16QAM	1	14	1753.5	20.60	V	PASS
4	5	QPSK	1	12	1712.5	22.20	H	PASS
4	5	QPSK	1	24	1732.5	22.22	H	PASS
4	5	QPSK	1	24	1752.5	22.19	H	PASS
4	5	QPSK	1	12	1712.5	21.76	V	PASS
4	5	QPSK	1	24	1732.5	21.70	V	PASS
4	5	QPSK	1	24	1752.5	21.68	V	PASS
4	5	16QAM	1	24	1712.5	21.15	H	PASS
4	5	16QAM	1	0	1732.5	21.11	H	PASS
4	5	16QAM	1	0	1752.5	21.19	H	PASS
4	5	16QAM	1	24	1712.5	20.72	V	PASS
4	5	16QAM	1	0	1732.5	20.65	V	PASS
4	5	16QAM	1	0	1752.5	20.70	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
4	10	QPSK	1	24	1715	22.19	H	PASS
4	10	QPSK	1	0	1732.5	22.15	H	PASS
4	10	QPSK	1	24	1750	22.11	H	PASS
4	10	QPSK	1	24	1715	21.67	V	PASS
4	10	QPSK	1	0	1732.5	21.62	V	PASS
4	10	QPSK	1	24	1750	21.63	V	PASS
4	10	16QAM	1	24	1715	21.21	H	PASS
4	10	16QAM	1	0	1732.5	21.28	H	PASS
4	10	16QAM	1	24	1750	21.13	H	PASS
4	10	16QAM	1	24	1715	20.62	V	PASS
4	10	16QAM	1	0	1732.5	20.71	V	PASS
4	10	16QAM	1	24	1750	20.63	V	PASS
4	15	QPSK	1	74	1717.5	22.24	H	PASS
4	15	QPSK	1	74	1732.5	22.28	H	PASS
4	15	QPSK	1	0	1747.5	22.23	H	PASS
4	15	QPSK	1	74	1717.5	21.63	V	PASS
4	15	QPSK	1	74	1732.5	21.65	V	PASS
4	15	QPSK	1	0	1747.5	21.69	V	PASS
4	15	16QAM	1	74	1717.5	21.24	H	PASS
4	15	16QAM	1	0	1732.5	21.20	H	PASS
4	15	16QAM	1	0	1747.5	21.25	H	PASS
4	15	16QAM	1	74	1717.5	20.66	V	PASS
4	15	16QAM	1	0	1732.5	20.71	V	PASS
4	15	16QAM	1	0	1747.5	20.69	V	PASS
4	20	QPSK	1	0	1720	22.28	H	PASS
4	20	QPSK	1	0	1732.5	22.32	H	PASS
4	20	QPSK	1	0	1745	22.29	H	PASS
4	20	QPSK	1	0	1720	21.69	V	PASS
4	20	QPSK	1	0	1732.5	21.74	V	PASS
4	20	QPSK	1	0	1745	21.66	V	PASS
4	20	16QAM	1	0	1720	21.23	H	PASS
4	20	16QAM	1	0	1732.5	21.26	H	PASS
4	20	16QAM	1	0	1745	21.29	H	PASS
4	20	16QAM	1	0	1720	20.73	V	PASS
4	20	16QAM	1	0	1732.5	20.76	V	PASS
4	20	16QAM	1	0	1745	20.74	V	PASS



3. LTE Band 5 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
5	1.4	QPSK	3	0	824.7	21.88	H	PASS
5	1.4	QPSK	3	2	836.5	21.90	H	PASS
5	1.4	QPSK	1	2	848.3	21.91	H	PASS
5	1.4	QPSK	3	0	824.7	21.45	V	PASS
5	1.4	QPSK	3	2	836.5	21.34	V	PASS
5	1.4	QPSK	1	2	848.3	21.37	V	PASS
5	1.4	16QAM	3	2	824.7	20.89	H	PASS
5	1.4	16QAM	3	2	836.5	20.91	H	PASS
5	1.4	16QAM	3	2	848.3	20.87	H	PASS
5	1.4	16QAM	3	2	824.7	20.17	V	PASS
5	1.4	16QAM	3	2	836.5	20.21	V	PASS
5	1.4	16QAM	3	2	848.3	20.22	V	PASS
5	3	QPSK	1	0	825.5	21.87	H	PASS
5	3	QPSK	1	0	836.5	21.88	H	PASS
5	3	QPSK	1	7	847.5	21.85	H	PASS
5	3	QPSK	1	0	825.5	21.40	V	PASS
5	3	QPSK	1	0	836.5	21.44	V	PASS
5	3	QPSK	1	7	847.5	21.51	V	PASS
5	3	16QAM	1	14	825.5	20.82	H	PASS
5	3	16QAM	1	14	836.5	20.84	H	PASS
5	3	16QAM	1	14	847.5	20.87	H	PASS
5	3	16QAM	1	14	825.5	20.27	V	PASS
5	3	16QAM	1	14	836.5	20.22	V	PASS
5	3	16QAM	1	14	847.5	20.20	V	PASS
5	5	QPSK	1	12	826.5	21.90	H	PASS
5	5	QPSK	1	24	836.5	21.92	H	PASS
5	5	QPSK	1	24	846.5	21.89	H	PASS
5	5	QPSK	1	12	826.5	21.46	V	PASS
5	5	QPSK	1	24	836.5	21.50	V	PASS
5	5	QPSK	1	24	846.5	21.48	V	PASS
5	5	16QAM	1	24	826.5	20.85	H	PASS
5	5	16QAM	1	0	836.5	20.81	H	PASS
5	5	16QAM	1	0	846.5	20.90	H	PASS
5	5	16QAM	1	24	826.5	20.22	V	PASS
5	5	16QAM	1	0	836.5	20.25	V	PASS
5	5	16QAM	1	0	846.5	20.18	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
5	10	QPSK	1	24	829	21.87	H	PASS
5	10	QPSK	1	0	836.5	21.96	H	PASS
5	10	QPSK	1	24	844	21.92	H	PASS
5	10	QPSK	1	24	829	21.47	V	PASS
5	10	QPSK	1	0	836.5	21.52	V	PASS
5	10	QPSK	1	24	844	21.48	V	PASS
5	10	16QAM	1	24	829	20.88	H	PASS
5	10	16QAM	1	0	836.5	20.92	H	PASS
5	10	16QAM	1	24	844	20.83	H	PASS
5	10	16QAM	1	24	829	20.25	V	PASS
5	10	16QAM	1	0	836.5	20.27	V	PASS
5	10	16QAM	1	24	844	20.23	V	PASS



4. LTE Band 7 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	H/V	Verdict
			RB Size	RB Offset				
7	5	QPSK	1	12	2502.5	21.76	H	PASS
7	5	QPSK	1	0	2535	21.70	H	PASS
7	5	QPSK	1	24	2567.5	21.78	H	PASS
7	5	QPSK	1	12	2502.5	21.16	V	PASS
7	5	QPSK	1	0	2535	21.20	V	PASS
7	5	QPSK	1	24	2567.5	21.18	V	PASS
7	5	16QAM	1	24	2502.5	20.45	H	PASS
7	5	16QAM	1	24	2535	20.48	H	PASS
7	5	16QAM	1	0	2567.5	20.49	H	PASS
7	5	16QAM	1	24	2502.5	19.72	V	PASS
7	5	16QAM	1	24	2535	19.65	V	PASS
7	5	16QAM	1	0	2567.5	19.75	V	PASS
7	10	QPSK	1	24	2505	21.78	H	PASS
7	10	QPSK	1	49	2535	21.69	H	PASS
7	10	QPSK	1	24	2565	21.71	H	PASS
7	10	QPSK	1	24	2505	21.23	V	PASS
7	10	QPSK	1	49	2535	21.18	V	PASS
7	10	QPSK	1	24	2565	21.15	V	PASS
7	10	16QAM	1	24	2505	20.50	H	PASS
7	10	16QAM	1	49	2535	20.45	H	PASS
7	10	16QAM	1	24	2565	20.53	H	PASS
7	10	16QAM	1	24	2505	19.82	V	PASS
7	10	16QAM	1	49	2535	19.75	V	PASS
7	10	16QAM	1	24	2565	19.83	V	PASS
7	15	QPSK	1	37	2507.5	21.74	H	PASS
7	15	QPSK	1	74	2535	21.73	H	PASS
7	15	QPSK	1	0	2562.5	21.70	H	PASS
7	15	QPSK	1	37	2507.5	21.25	V	PASS
7	15	QPSK	1	74	2535	21.20	V	PASS
7	15	QPSK	1	0	2562.5	21.19	V	PASS
7	15	16QAM	1	37	2507.5	20.44	H	PASS
7	15	16QAM	1	18	2535	20.50	H	PASS
7	15	16QAM	1	0	2562.5	20.51	H	PASS
7	15	16QAM	1	37	2507.5	19.86	V	PASS
7	15	16QAM	1	18	2535	19.81	V	PASS
7	15	16QAM	1	0	2562.5	19.79	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	H/V	Verdict
7	20	QPSK	1	0	2510	21.78	H	PASS
7	20	QPSK	1	0	2535	21.75	H	PASS
7	20	QPSK	1	0	2560	21.81	H	PASS
7	20	QPSK	1	0	2510	21.29	V	PASS
7	20	QPSK	1	0	2535	21.24	V	PASS
7	20	QPSK	1	0	2560	21.25	V	PASS
7	20	16QAM	1	0	2510	20.53	H	PASS
7	20	16QAM	1	0	2535	20.56	H	PASS
7	20	16QAM	1	0	2560	20.49	H	PASS
7	20	16QAM	1	0	2510	19.83	V	PASS
7	20	16QAM	1	0	2535	19.86	V	PASS
7	20	16QAM	1	0	2560	19.91	V	PASS



5. LTE Band 12 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
12	1.4	QPSK	3	0	699.7	20.88	H	PASS
12	1.4	QPSK	3	2	707.5	20.84	H	PASS
12	1.4	QPSK	1	2	715.3	20.89	H	PASS
12	1.4	QPSK	3	0	699.7	20.26	V	PASS
12	1.4	QPSK	3	2	707.5	20.34	V	PASS
12	1.4	QPSK	1	2	715.3	20.27	V	PASS
12	1.4	16QAM	3	2	699.7	19.69	H	PASS
12	1.4	16QAM	3	2	707.5	19.71	H	PASS
12	1.4	16QAM	3	2	715.3	19.67	H	PASS
12	1.4	16QAM	3	2	699.7	19.17	V	PASS
12	1.4	16QAM	3	2	707.5	19.21	V	PASS
12	1.4	16QAM	3	2	715.3	19.22	V	PASS
12	3	QPSK	1	0	700.5	20.84	H	PASS
12	3	QPSK	1	0	707.5	20.87	H	PASS
12	3	QPSK	1	7	714.5	20.85	H	PASS
12	3	QPSK	1	0	700.5	20.20	V	PASS
12	3	QPSK	1	0	707.5	20.24	V	PASS
12	3	QPSK	1	7	714.5	20.21	V	PASS
12	3	16QAM	1	14	700.5	19.72	H	PASS
12	3	16QAM	1	14	707.5	19.64	H	PASS
12	3	16QAM	1	14	714.5	19.75	H	PASS
12	3	16QAM	1	14	700.5	19.17	V	PASS
12	3	16QAM	1	14	707.5	19.12	V	PASS
12	3	16QAM	1	14	714.5	19.20	V	PASS
12	5	QPSK	1	12	701.5	20.85	H	PASS
12	5	QPSK	1	24	707.5	20.92	H	PASS
12	5	QPSK	1	24	713.5	20.89	H	PASS
12	5	QPSK	1	12	701.5	20.26	V	PASS
12	5	QPSK	1	24	707.5	20.20	V	PASS
12	5	QPSK	1	24	713.5	20.28	V	PASS
12	5	16QAM	1	24	701.5	19.65	H	PASS
12	5	16QAM	1	0	707.5	19.71	H	PASS
12	5	16QAM	1	0	713.5	19.78	H	PASS
12	5	16QAM	1	24	701.5	19.12	V	PASS
12	5	16QAM	1	0	707.5	19.25	V	PASS
12	5	16QAM	1	0	713.5	19.18	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
12	10	QPSK	1	24	704	20.87	H	PASS
12	10	QPSK	1	0	707.5	20.95	H	PASS
12	10	QPSK	1	24	711	20.84	H	PASS
12	10	QPSK	1	24	704	20.27	V	PASS
12	10	QPSK	1	0	707.5	20.25	V	PASS
12	10	QPSK	1	24	711	20.33	V	PASS
12	10	16QAM	1	24	704	19.78	H	PASS
12	10	16QAM	1	0	707.5	19.81	H	PASS
12	10	16QAM	1	24	711	19.77	H	PASS
12	10	16QAM	1	24	704	19.18	V	PASS
12	10	16QAM	1	0	707.5	19.25	V	PASS
12	10	16QAM	1	24	711	19.23	V	PASS

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

The radiated spurious emission was measured by substitution method according to ANSI / TIA /EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7

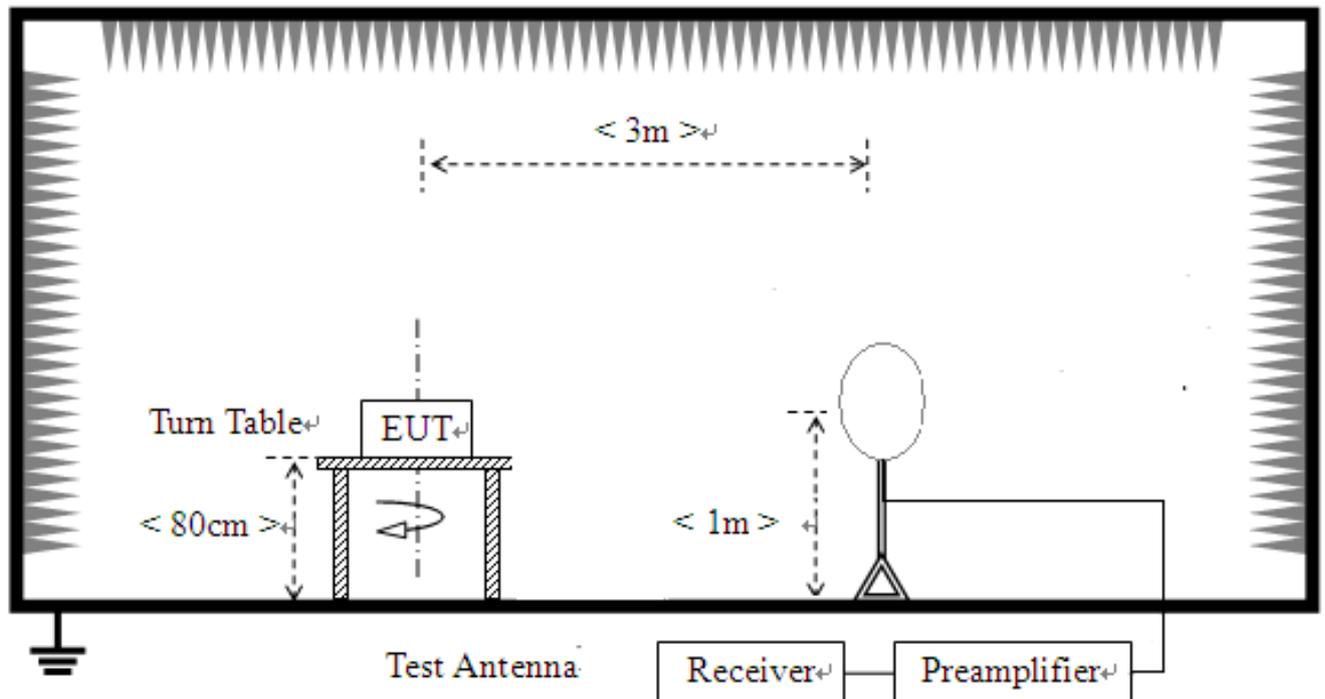
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.8.2 Measuring Instruments

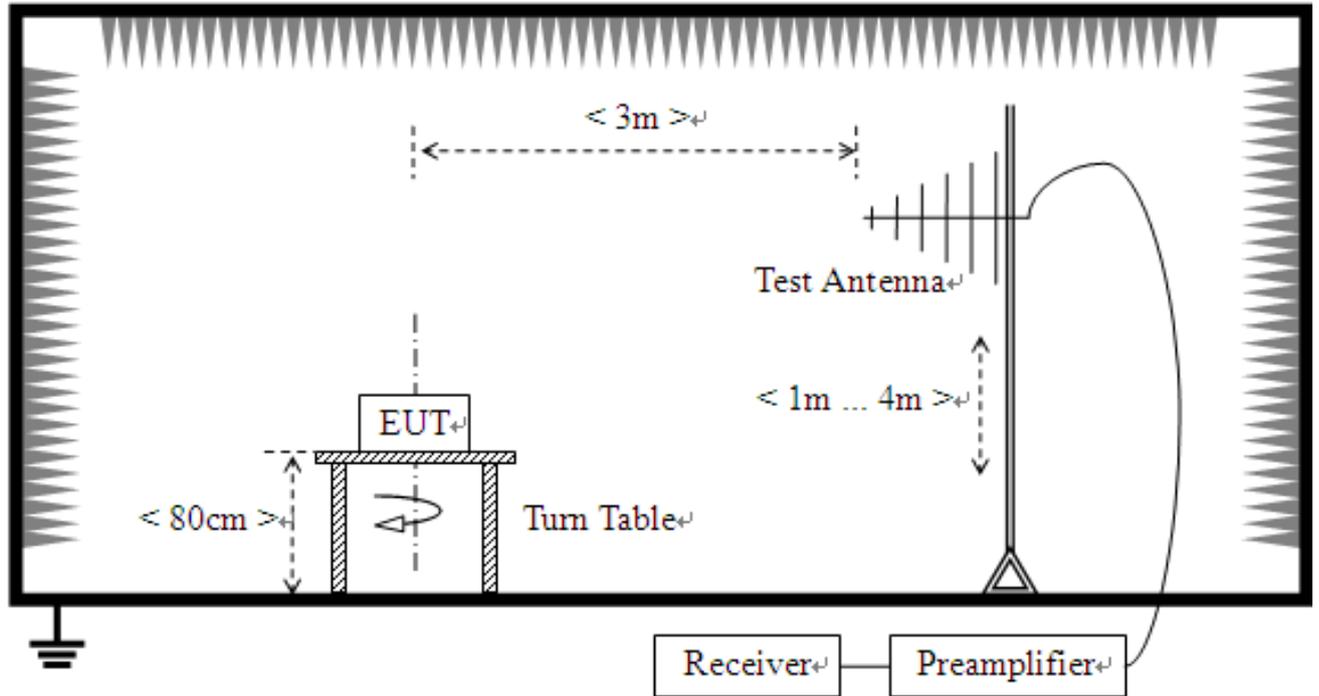
The measuring equipment is listed in the section 3 of this test report.

2.8.3 Test Setup

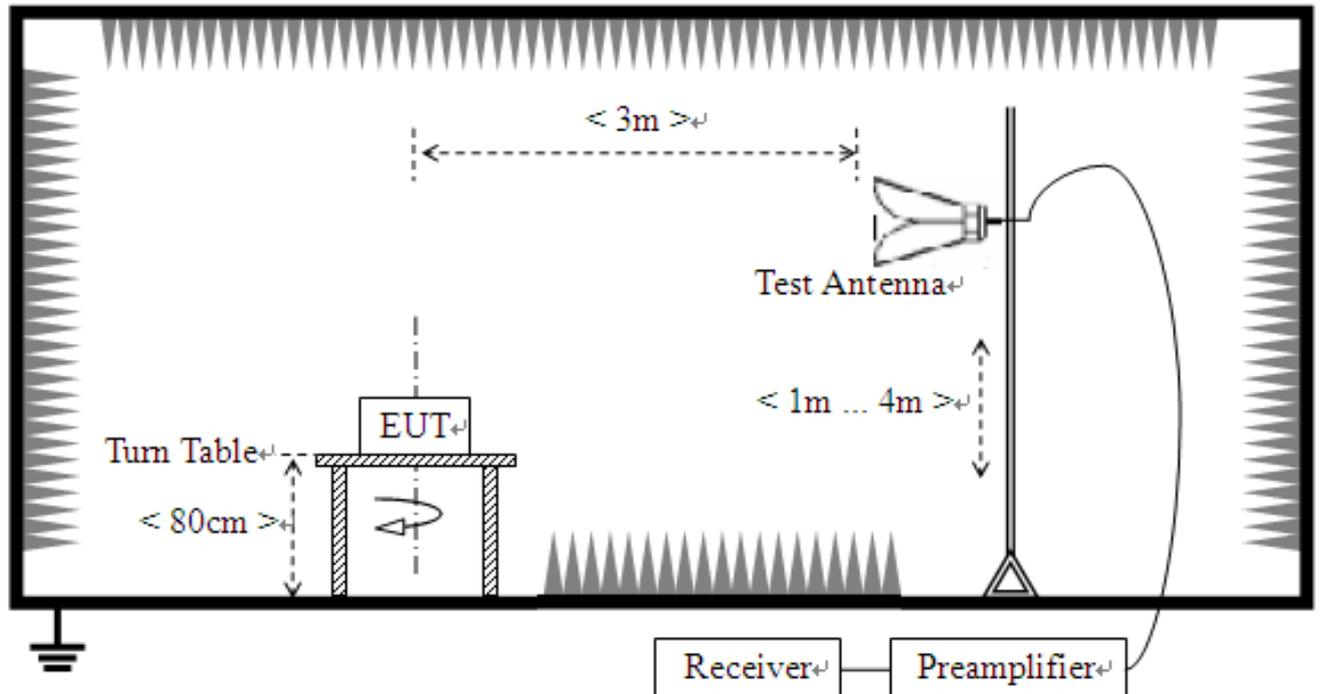
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.8.4 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

$$\begin{aligned} & \text{The limit line is derived from } 43 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [43 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} \\ & = -13\text{dBm}. \end{aligned}$$

<For Band 7>

$$\begin{aligned} & \text{The limit line is derived from } 55 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [55 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)} \\ & = -25\text{dBm}. \end{aligned}$$

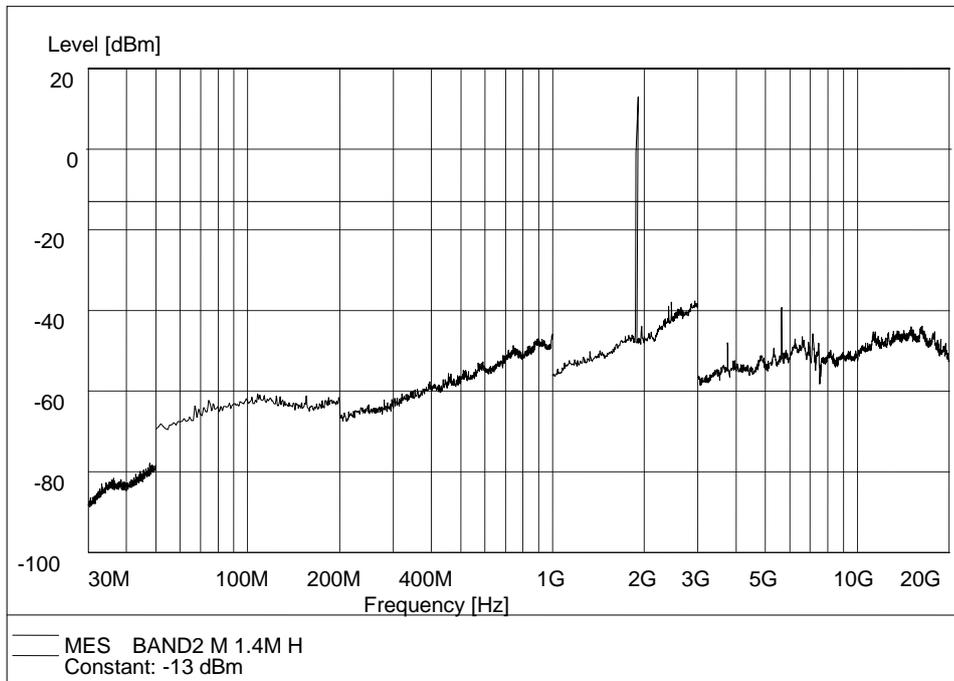
11. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
12. The spectrum is measured from 9 KHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.



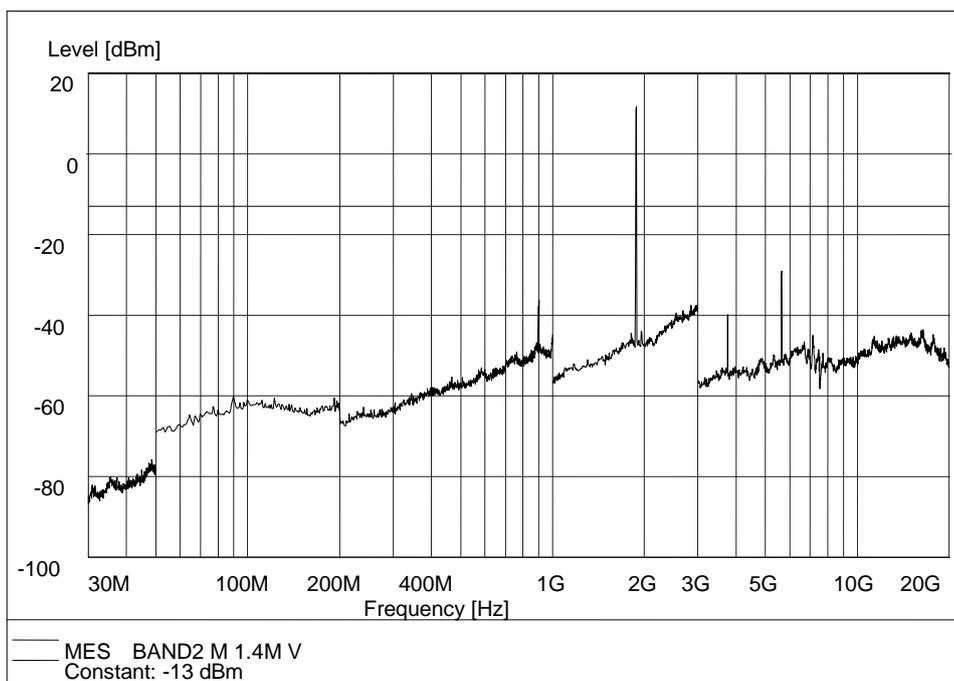
13. The maximum RB configurations of the Radiated Spurious Emissions as RB Size 1,
RB Offset 0

2.8.5 Test Result (Plots) of Radiated Spurious Emission

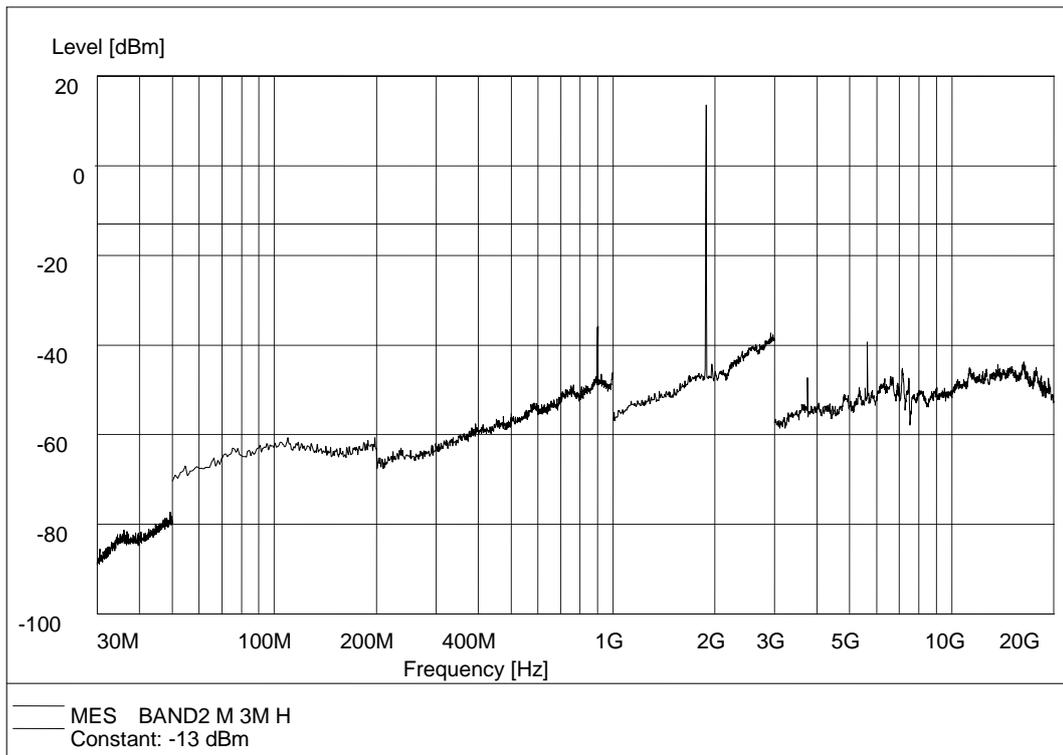
Note: For 9 KHz to 30MHz: the amplitude of spurious emissions is attenuated by more than 20dB below the permissible value, so we not provide the test result here.



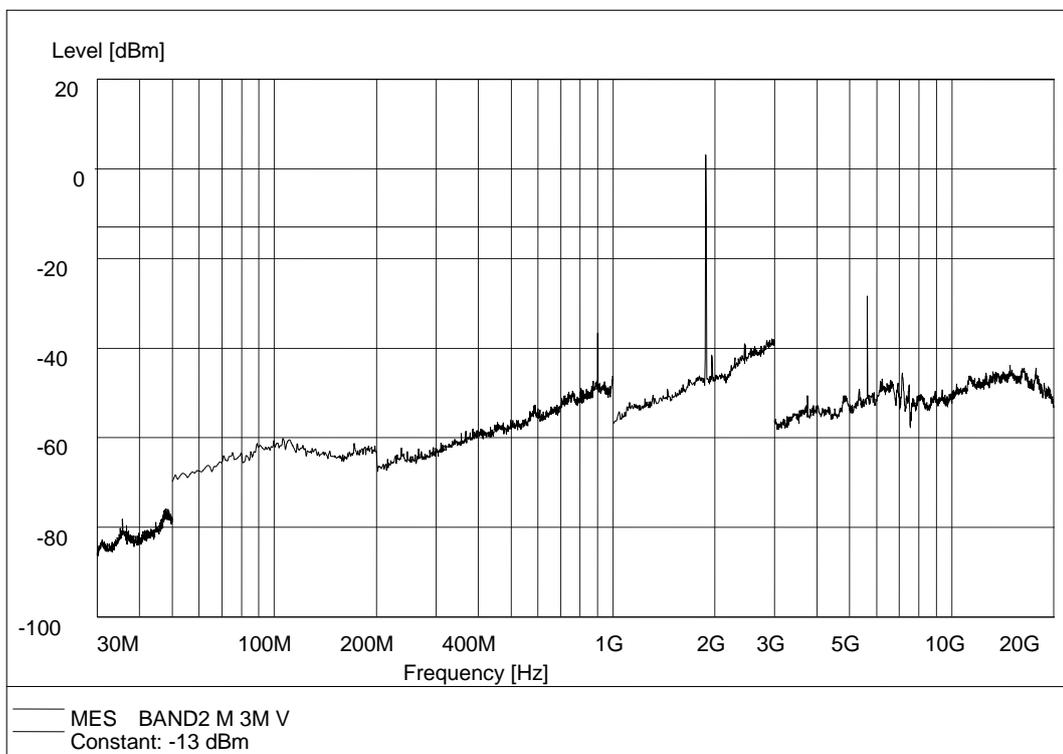
LTE Band 2 QPSK 1.4MHz BW Test Antenna Horizontal



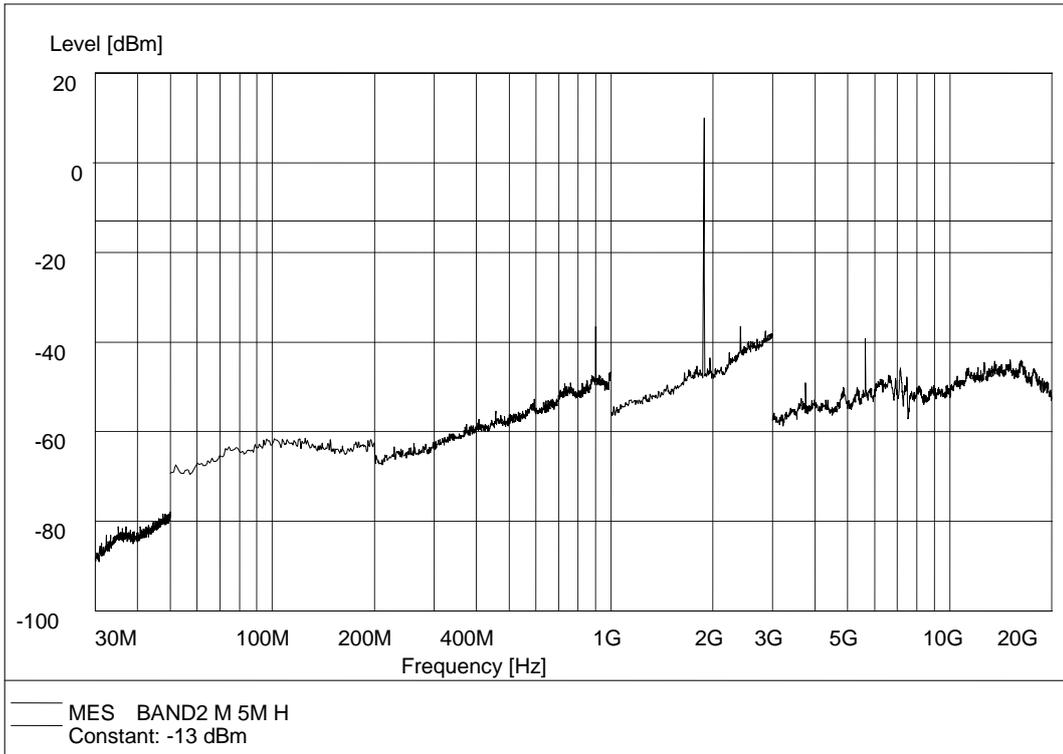
LTE Band 2 QPSK 1.4MHz BW Test Antenna Vertical



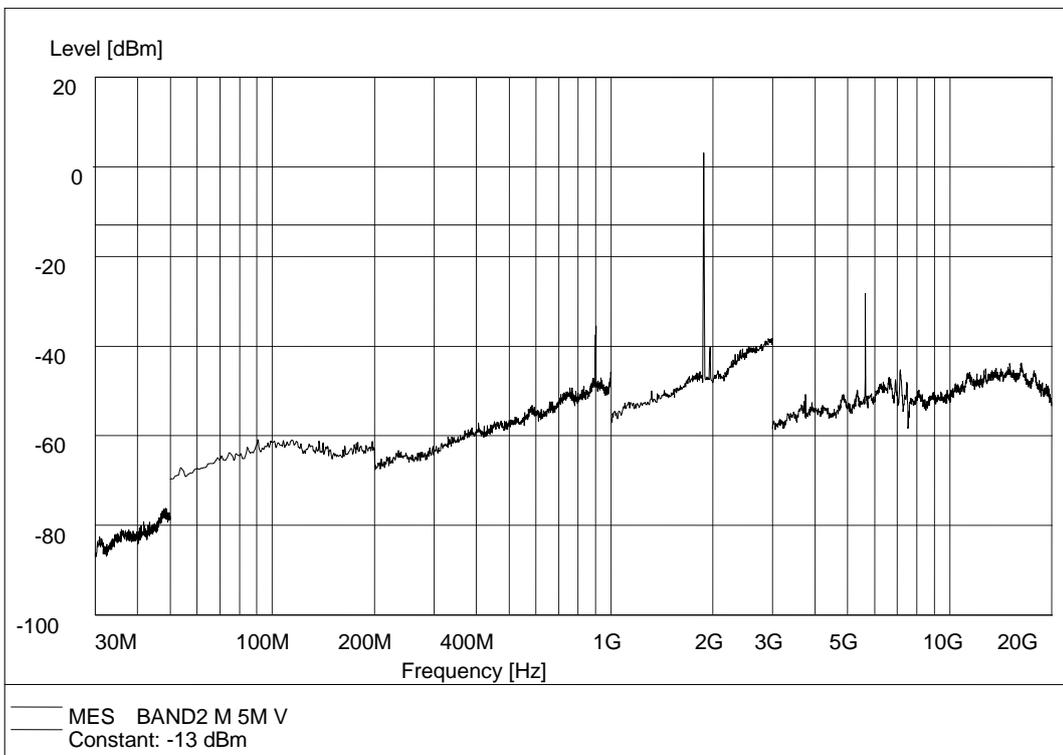
LTE Band 2 QPSK 3MHz BW Test Antenna Horizontal



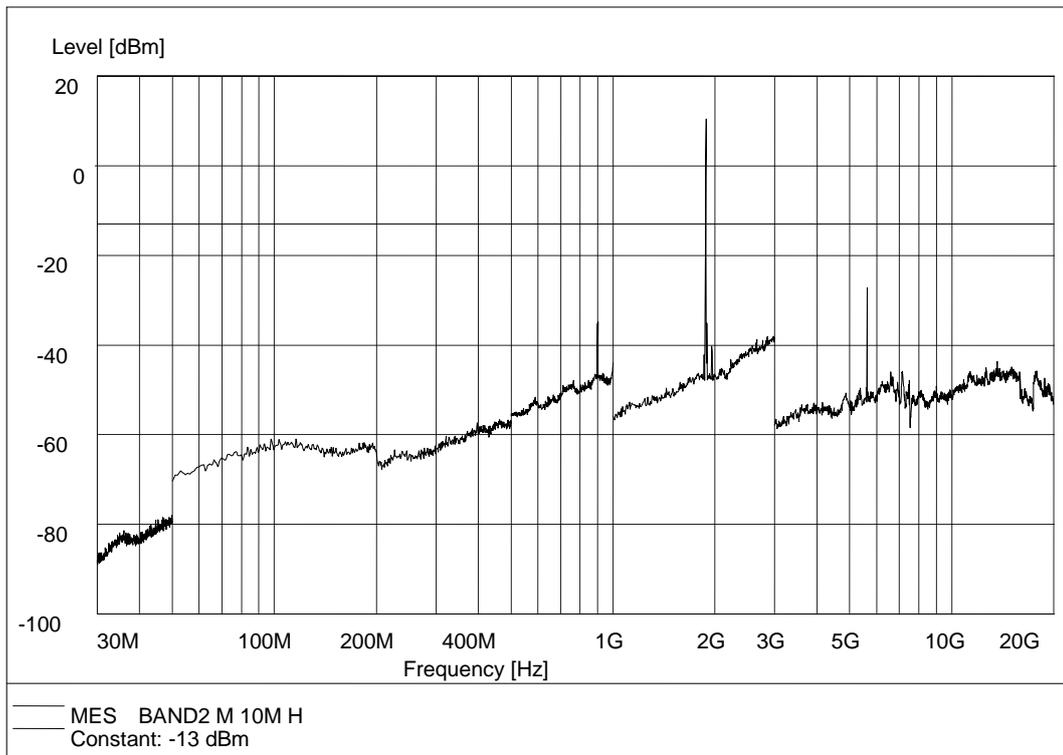
LTE Band 2 QPSK 3MHz BW Test Antenna Vertical



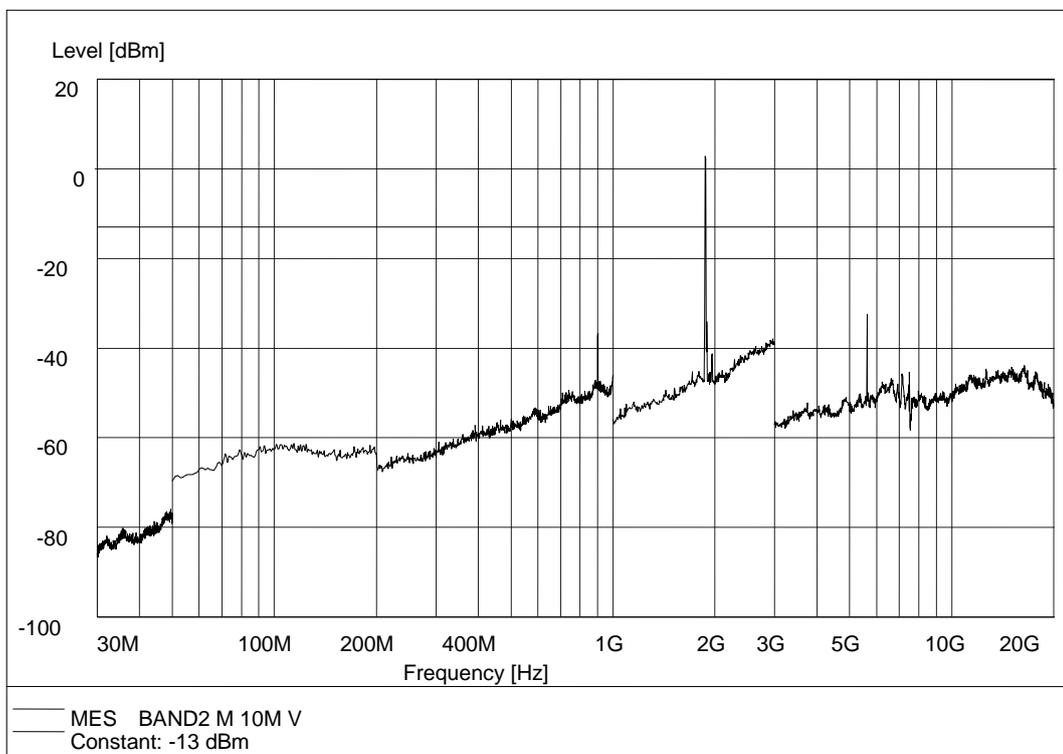
LTE Band 2 QPSK 5MHz BW Test Antenna Horizontal



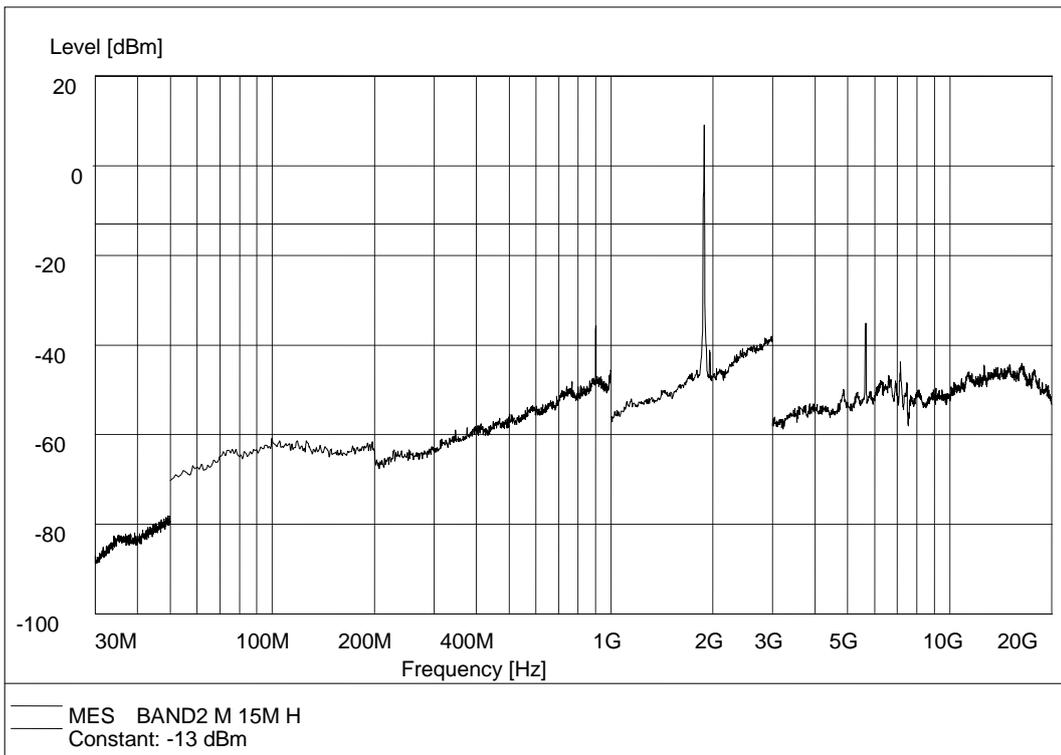
LTE Band 2 QPSK 5MHz BW Test Antenna Vertical



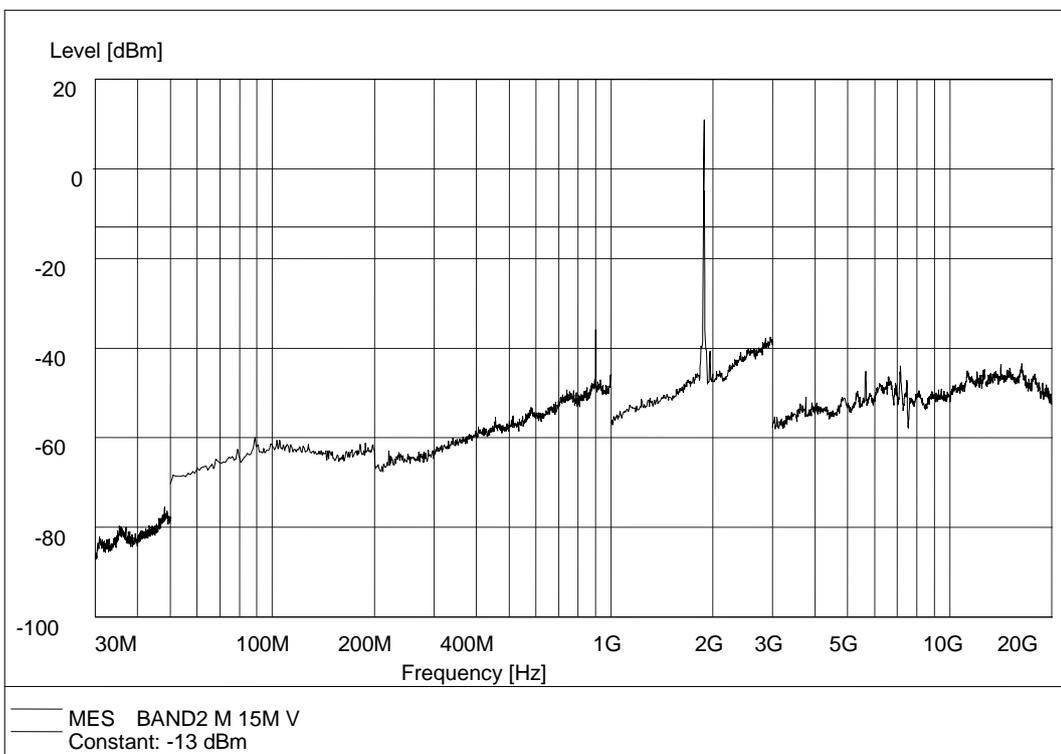
LTE Band 2 QPSK 10MHz BW Test Antenna Horizontal



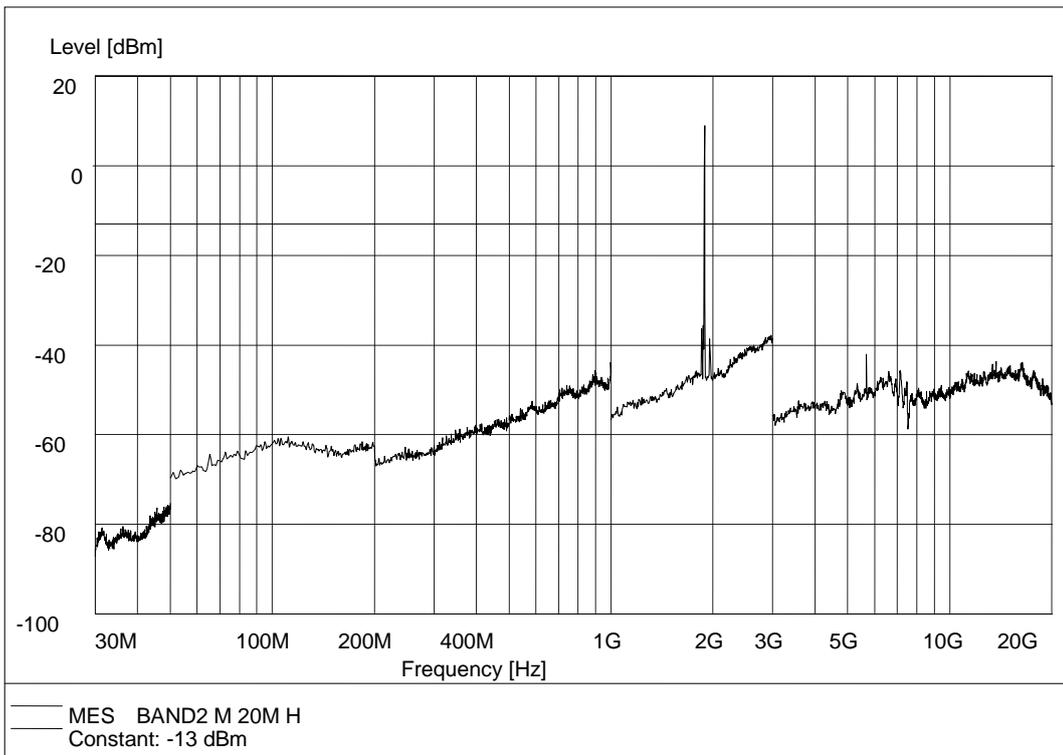
LTE Band 2 QPSK 10MHz BW Test Antenna Vertical



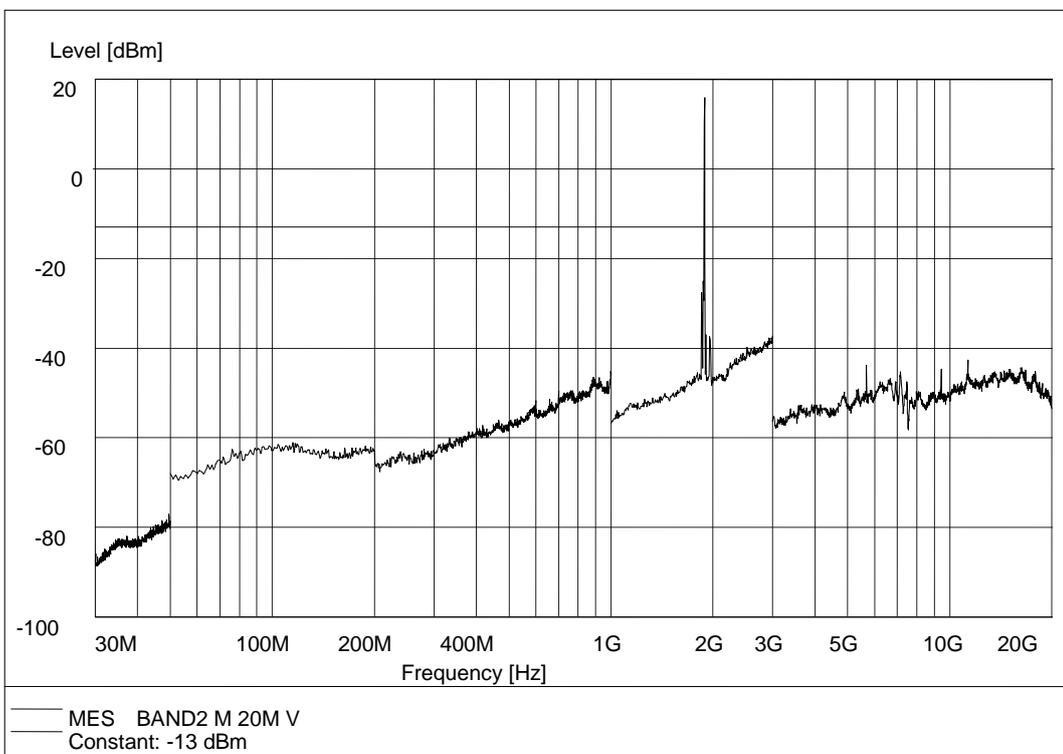
LTE Band 2 QPSK 15MHz BW Test Antenna Horizontal



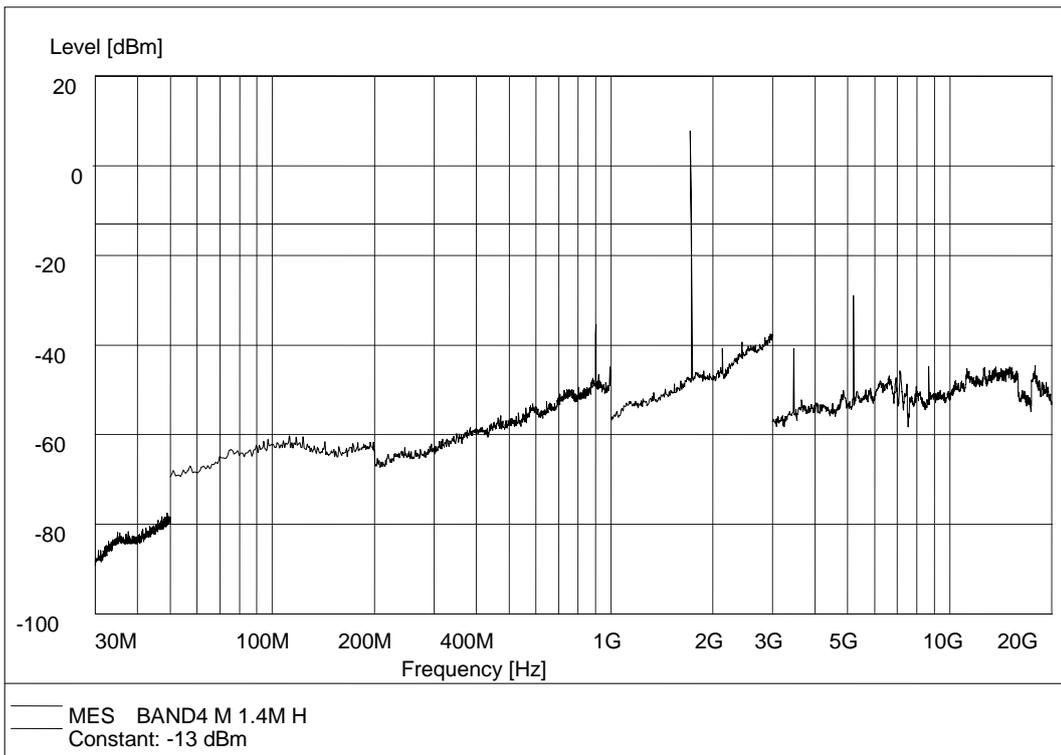
LTE Band 2 QPSK 15MHz BW Test Antenna Vertical



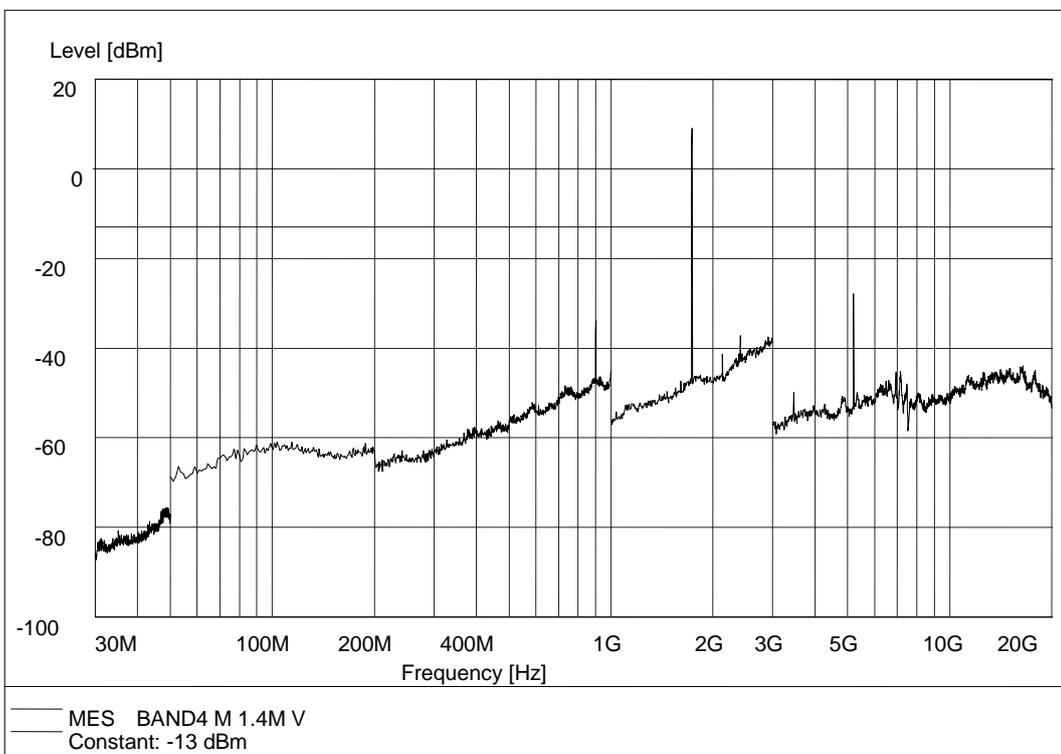
LTE Band 2 QPSK 20MHz BW Test Antenna Horizontal



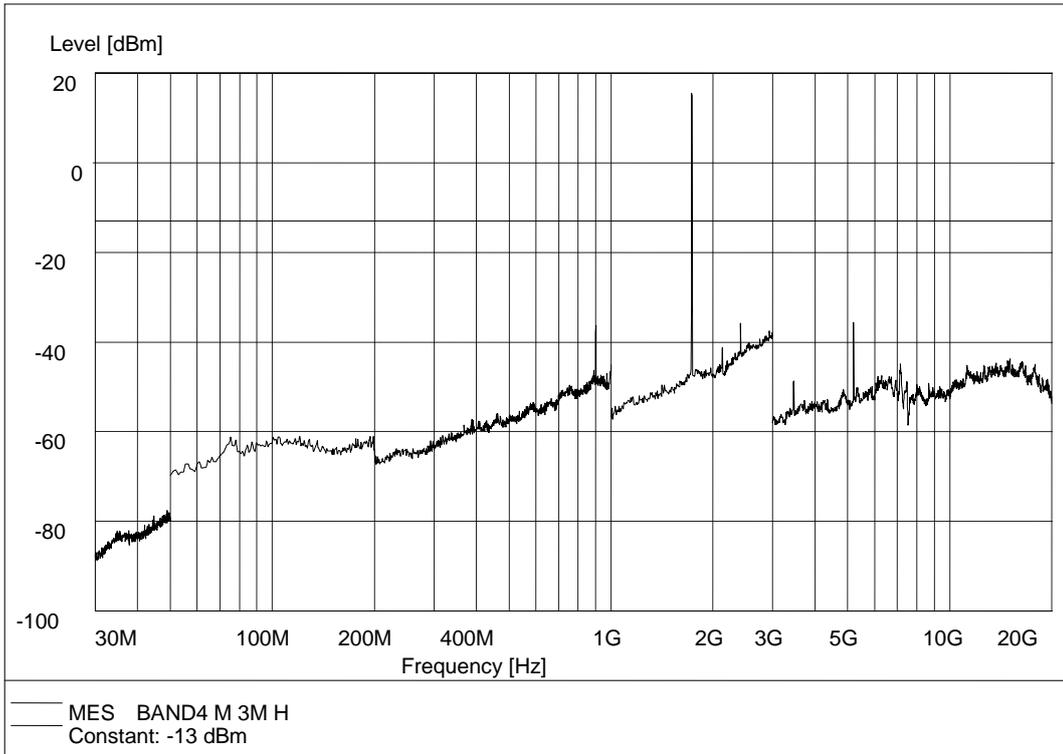
LTE Band 2 QPSK 20MHz BW Test Antenna Vertical



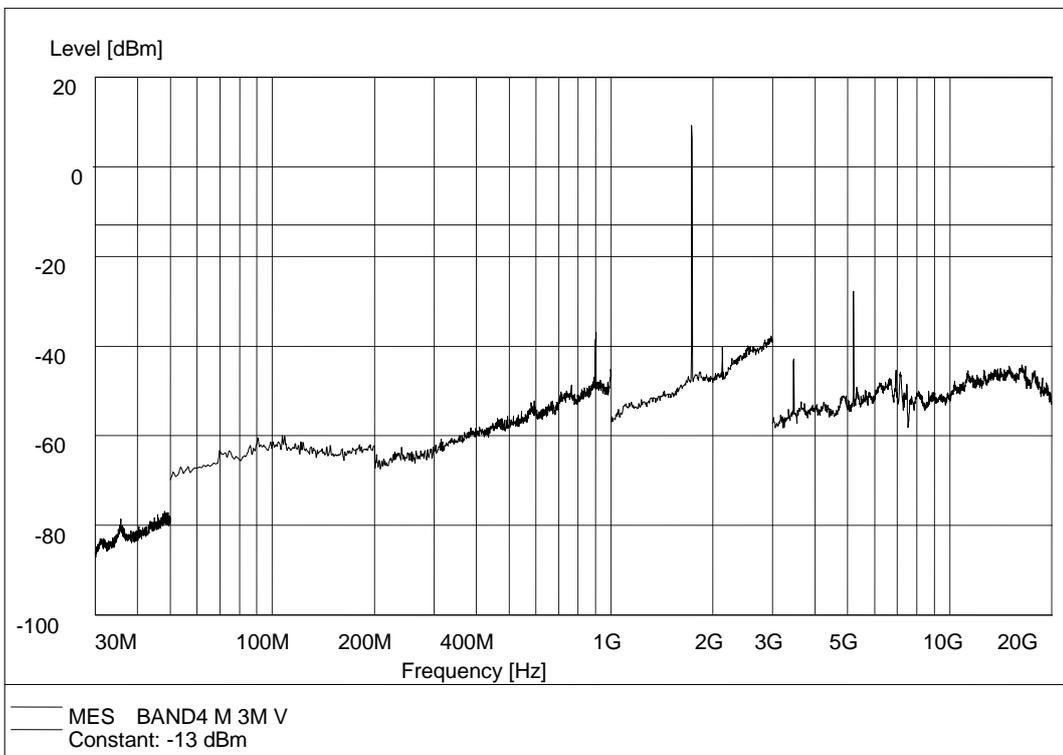
LTE Band 4 QPSK 1.4MHz BW Test Antenna Horizontal



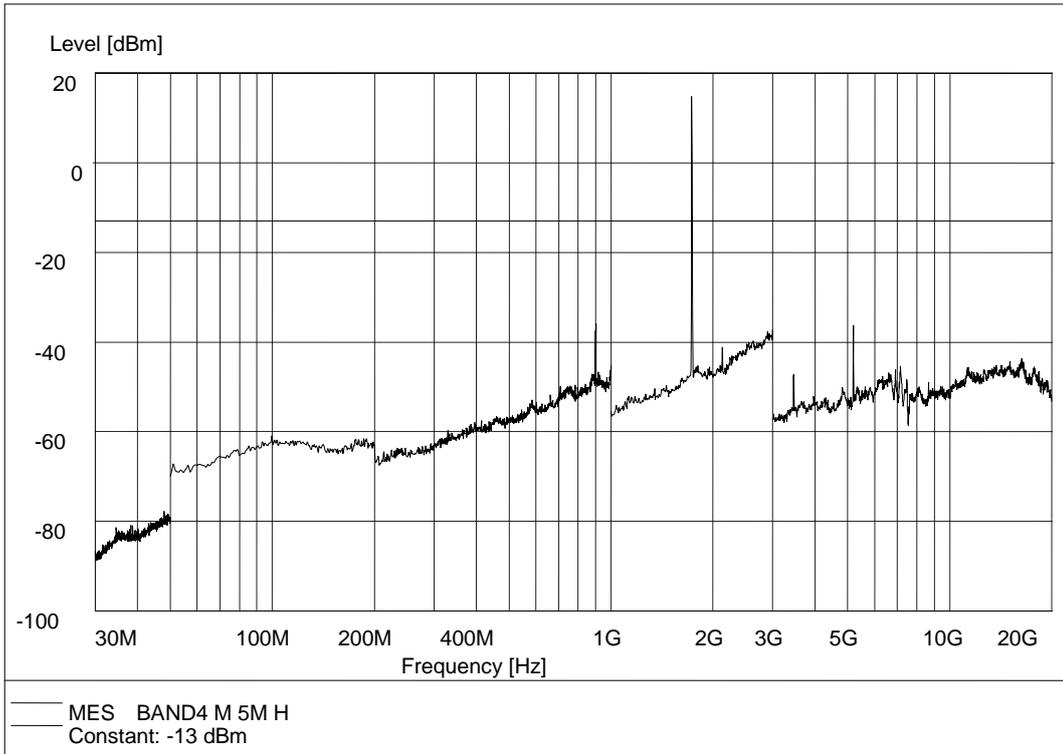
LTE Band 4 QPSK 1.4MHz BW Test Antenna Vertical



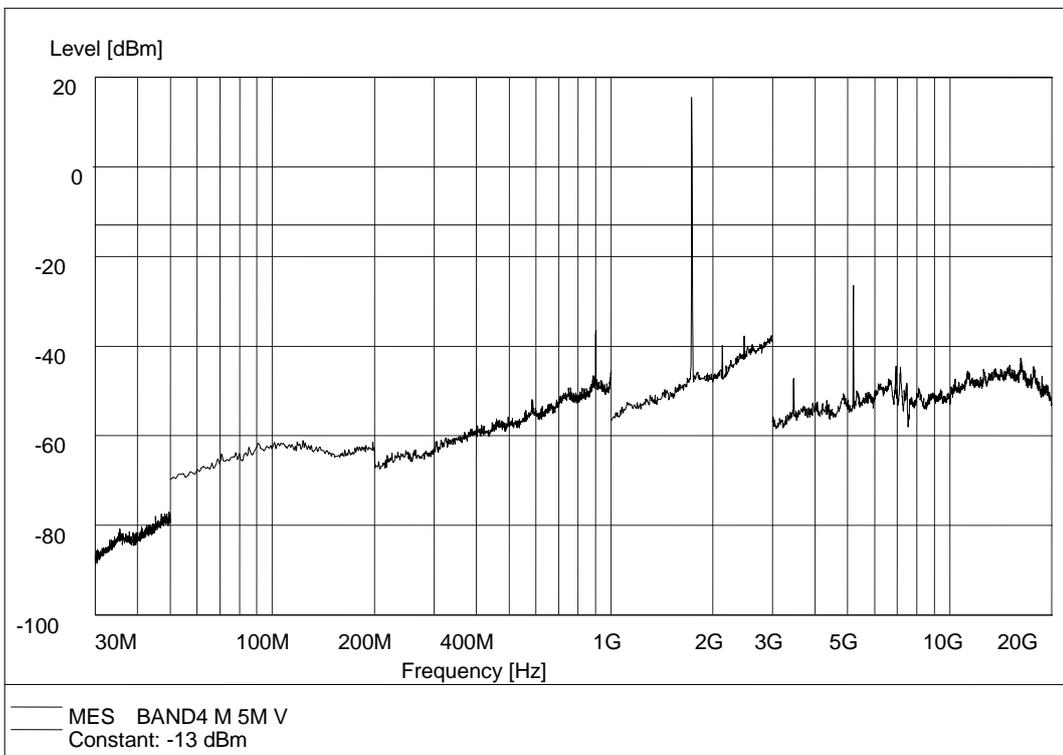
LTE Band 4 QPSK 3MHz BW Test Antenna Horizontal



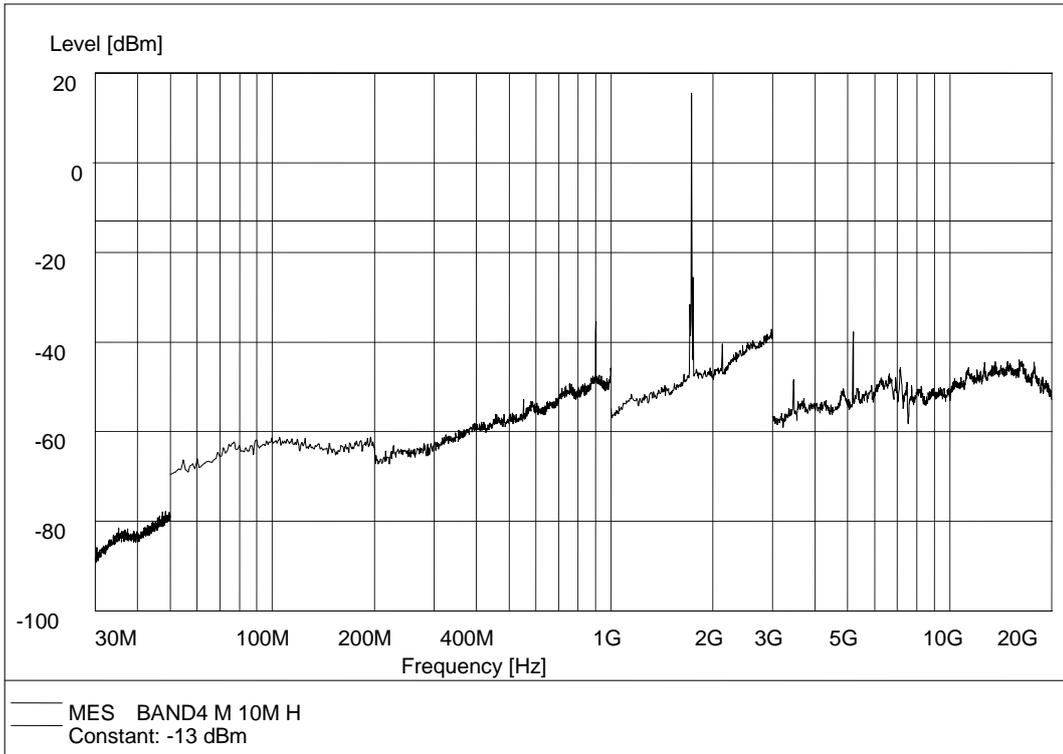
LTE Band 4 QPSK 3MHz BW Test Antenna Vertical



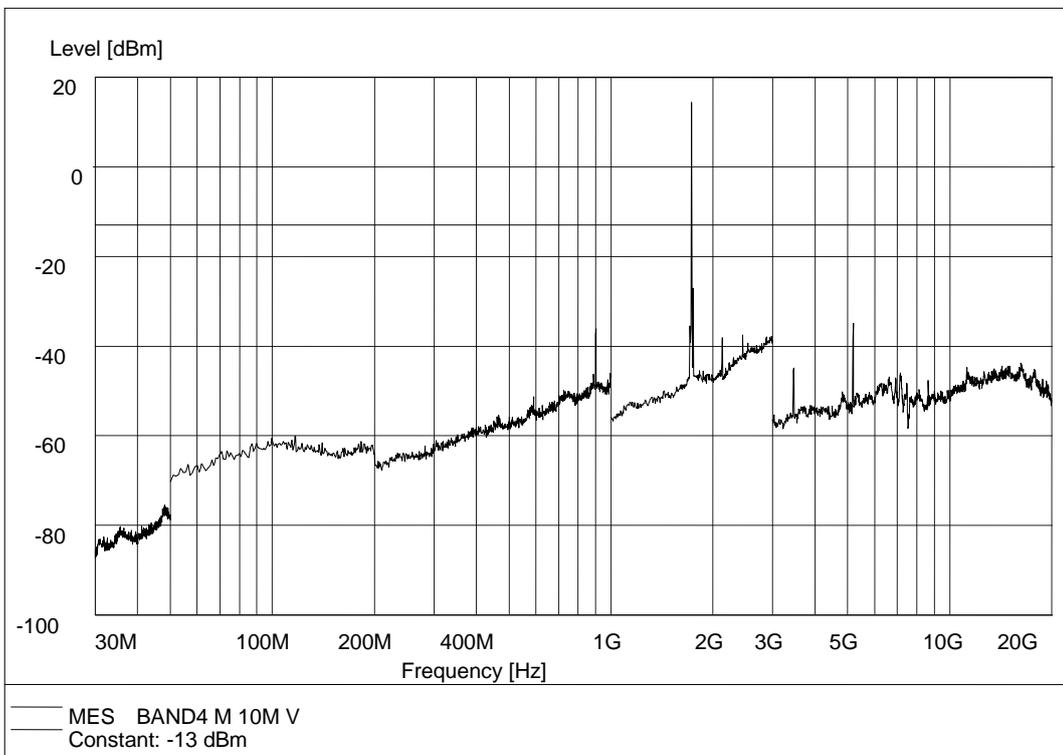
LTE Band 4 QPSK 5MHz BW Test Antenna Horizontal



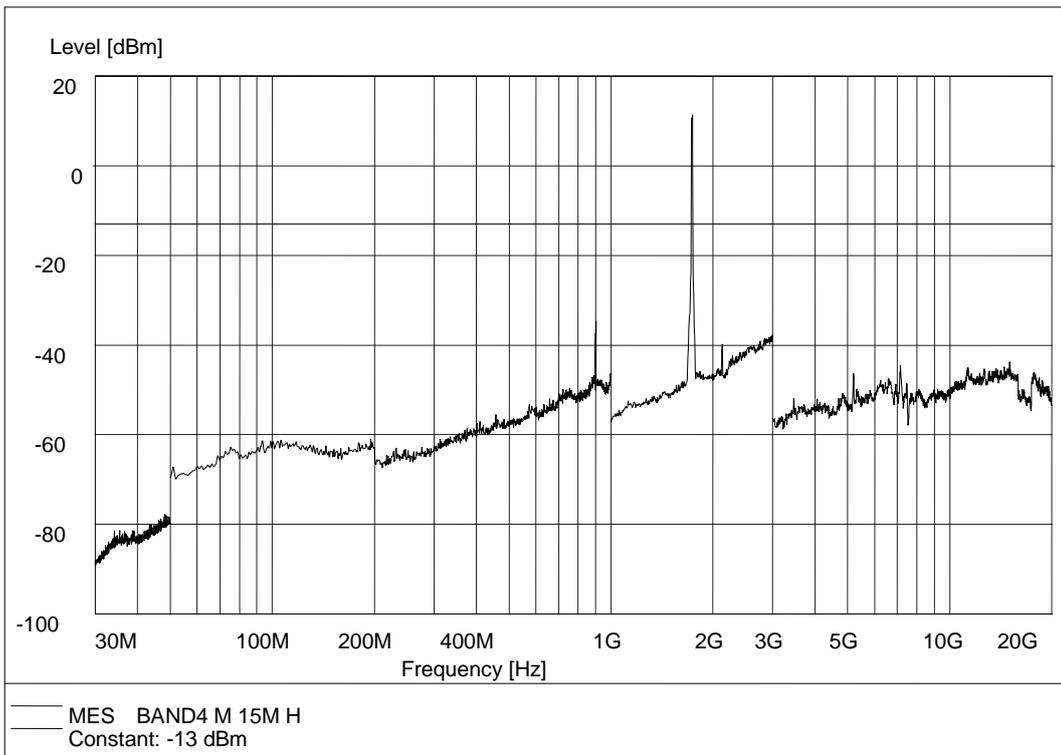
LTE Band 4 QPSK 5MHz BW Test Antenna Vertical



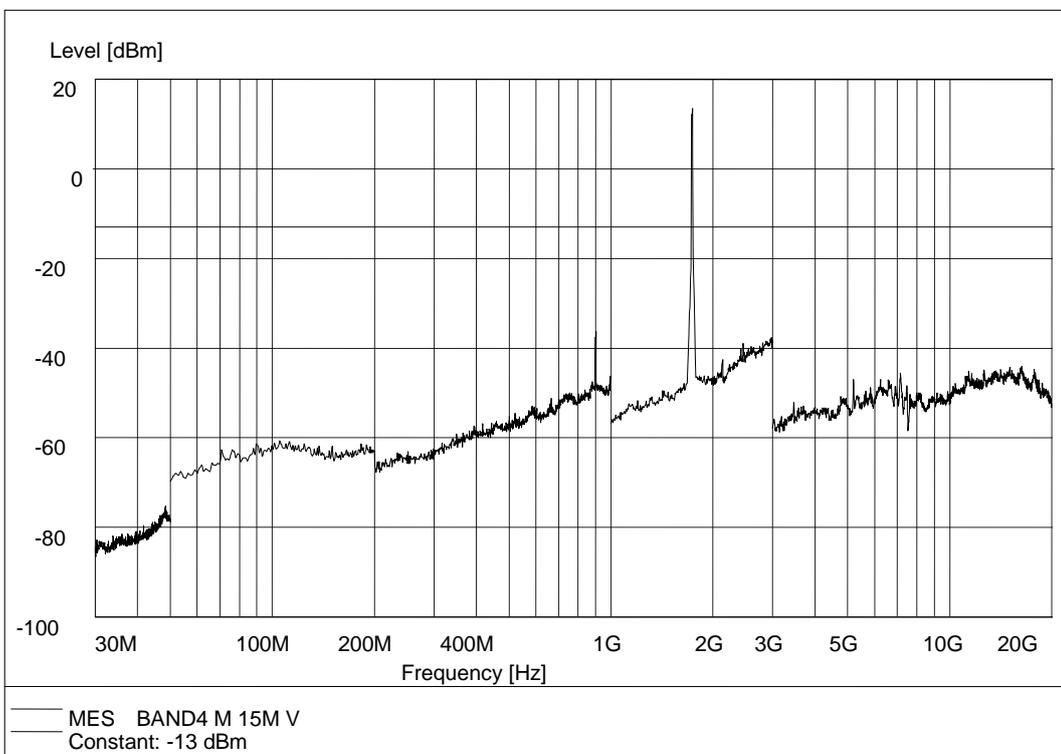
LTE Band 4 QPSK 10MHz BW Test Antenna Horizontal



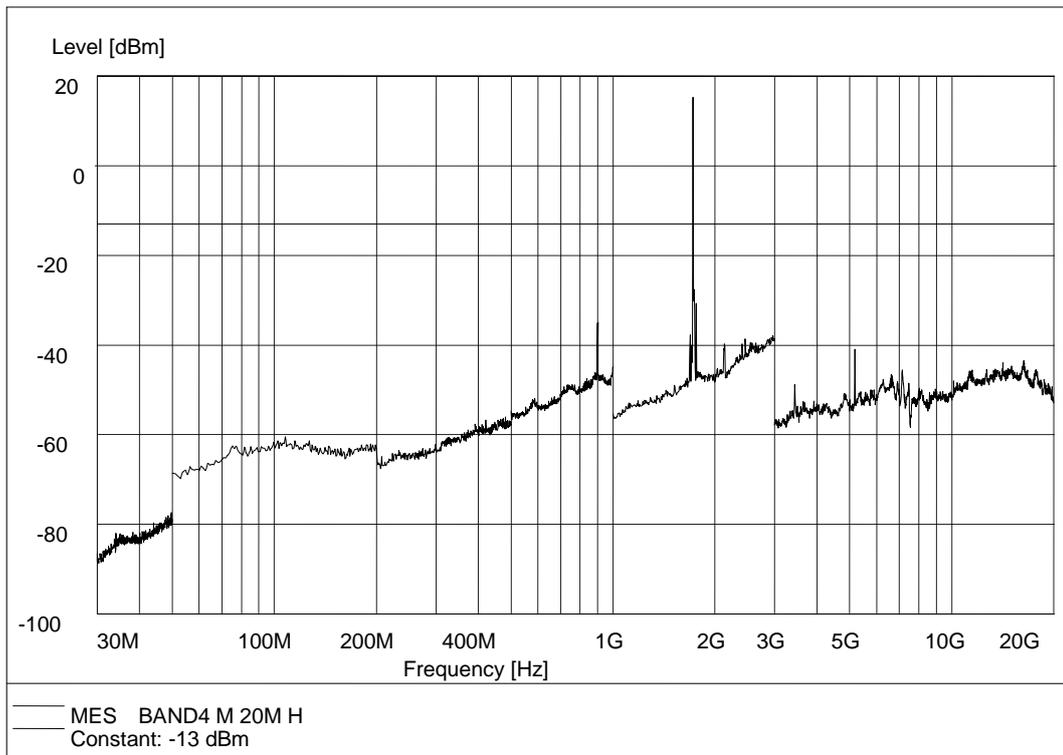
LTE Band 4 QPSK 10MHz BW Test Antenna Vertical



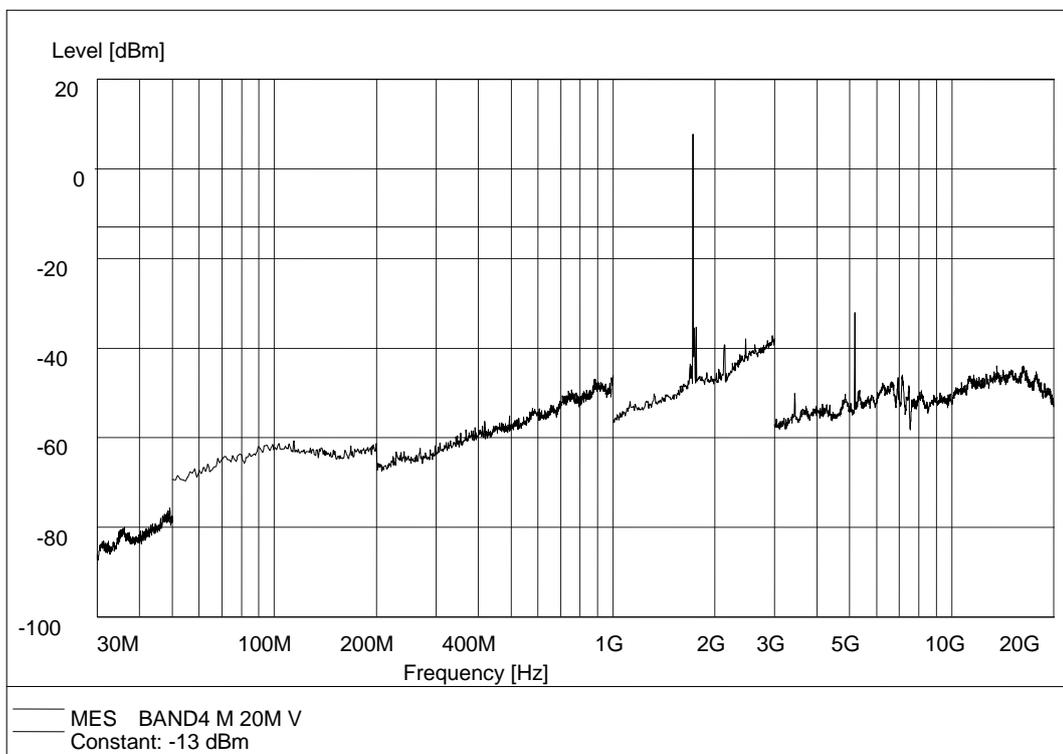
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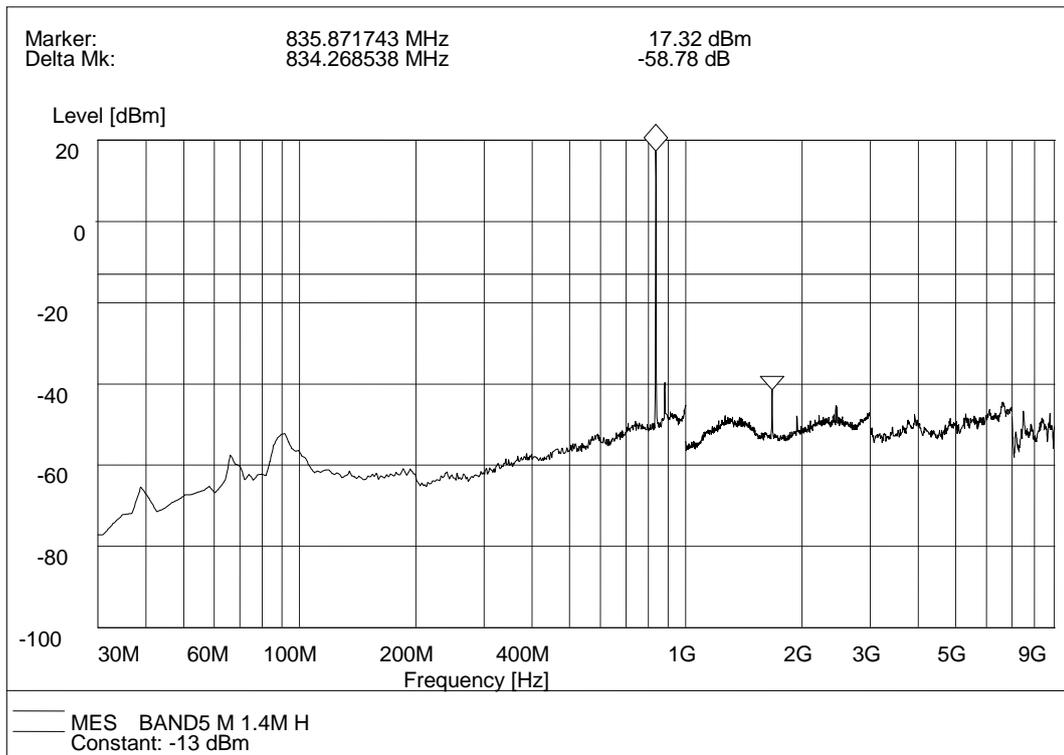
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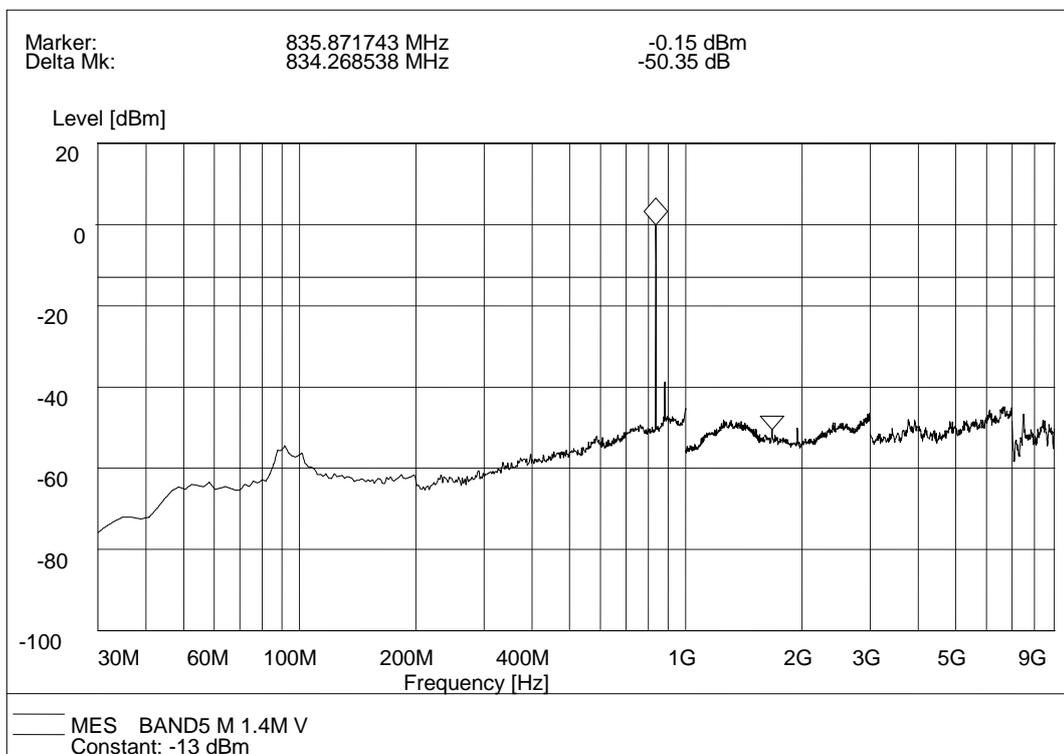
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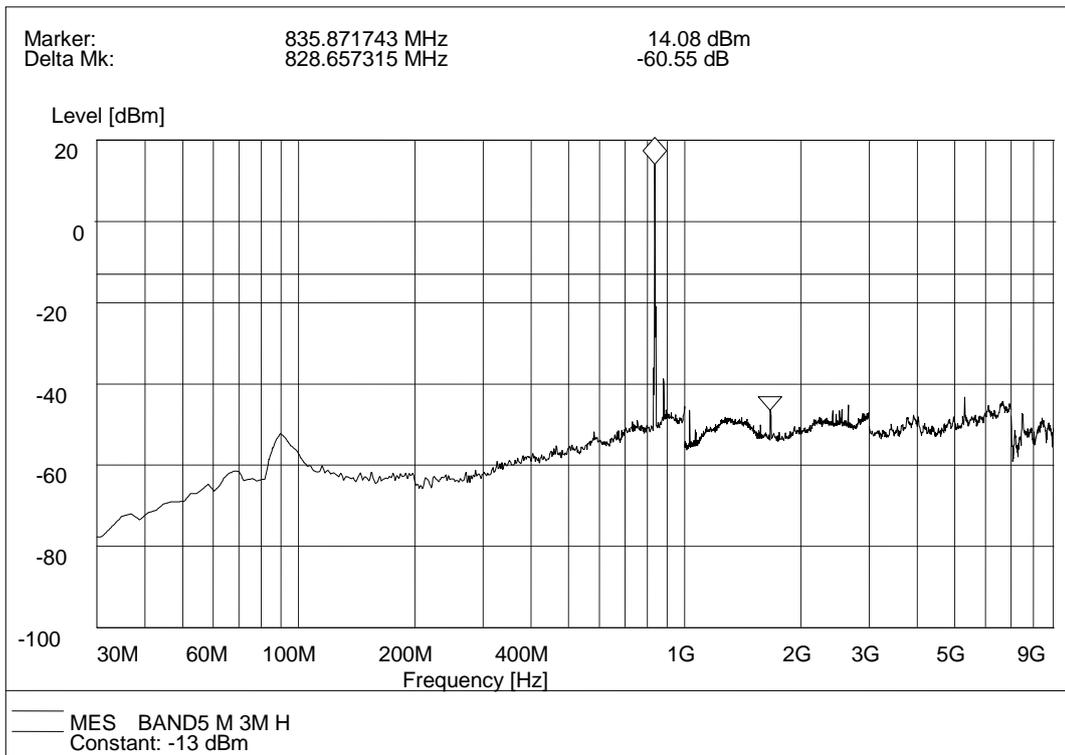
LTE Band 4 QPSK 20MHz BW Test Antenna Vertical



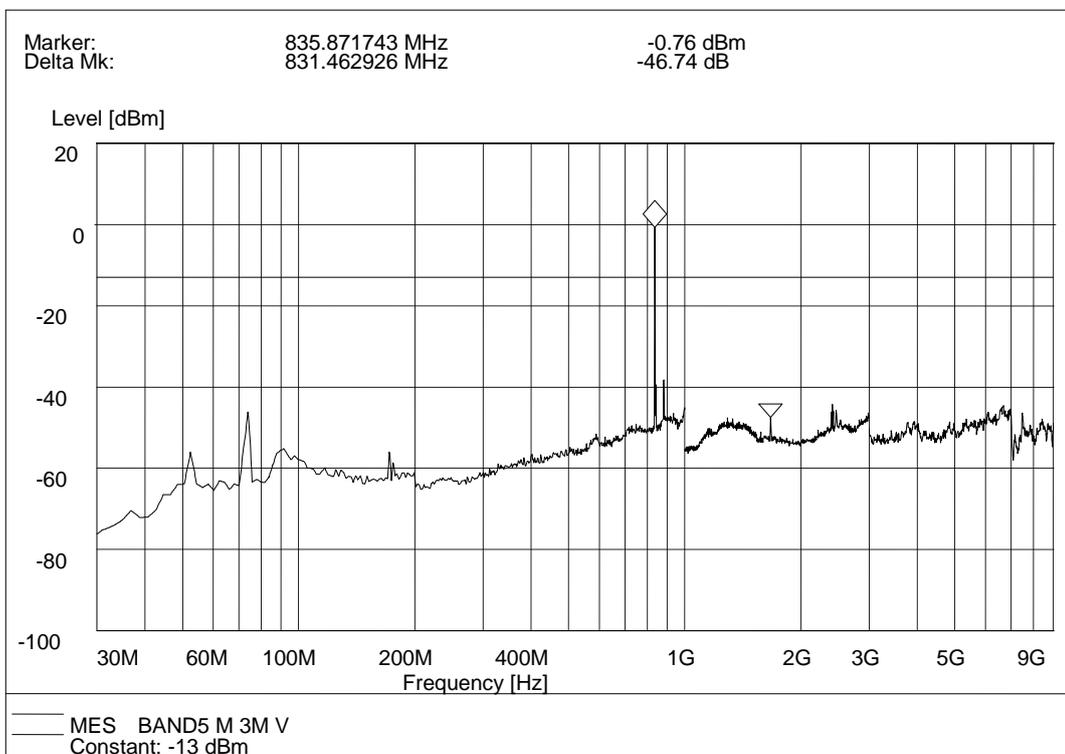
LTE Band 5 QPSK 1.4MHz BW Test Antenna Horizontal



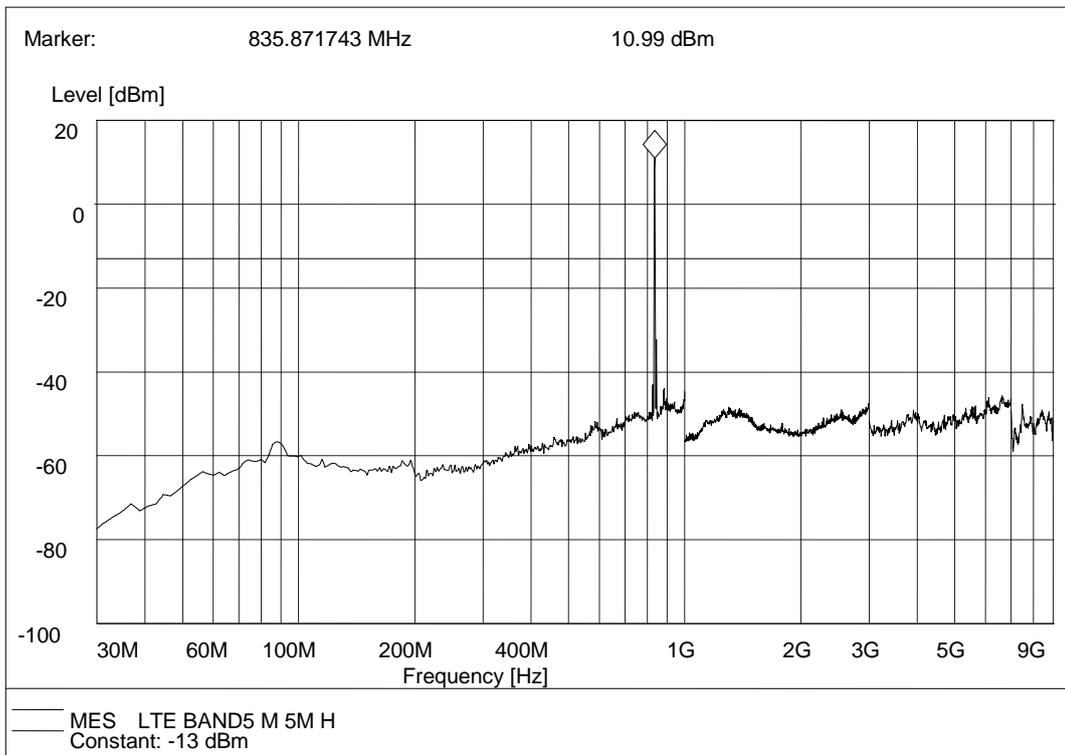
LTE Band 5 QPSK 1.4MHz BW Test Antenna Vertical



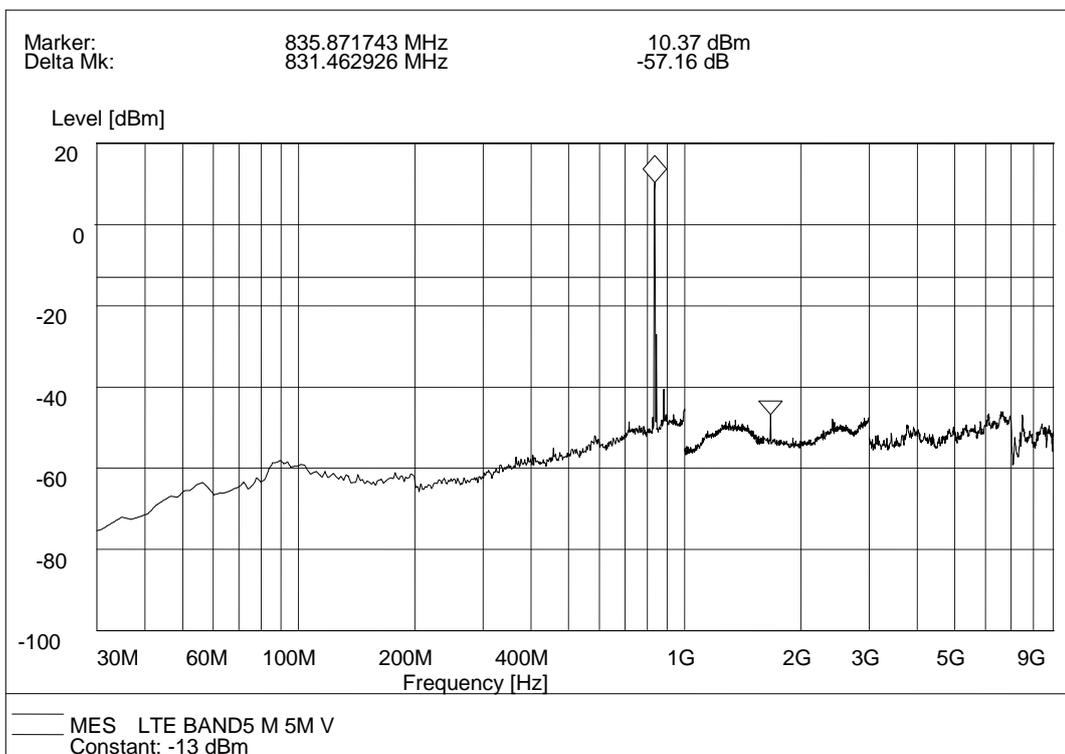
LTE Band 5 QPSK 3MHz BW Test Antenna Horizontal



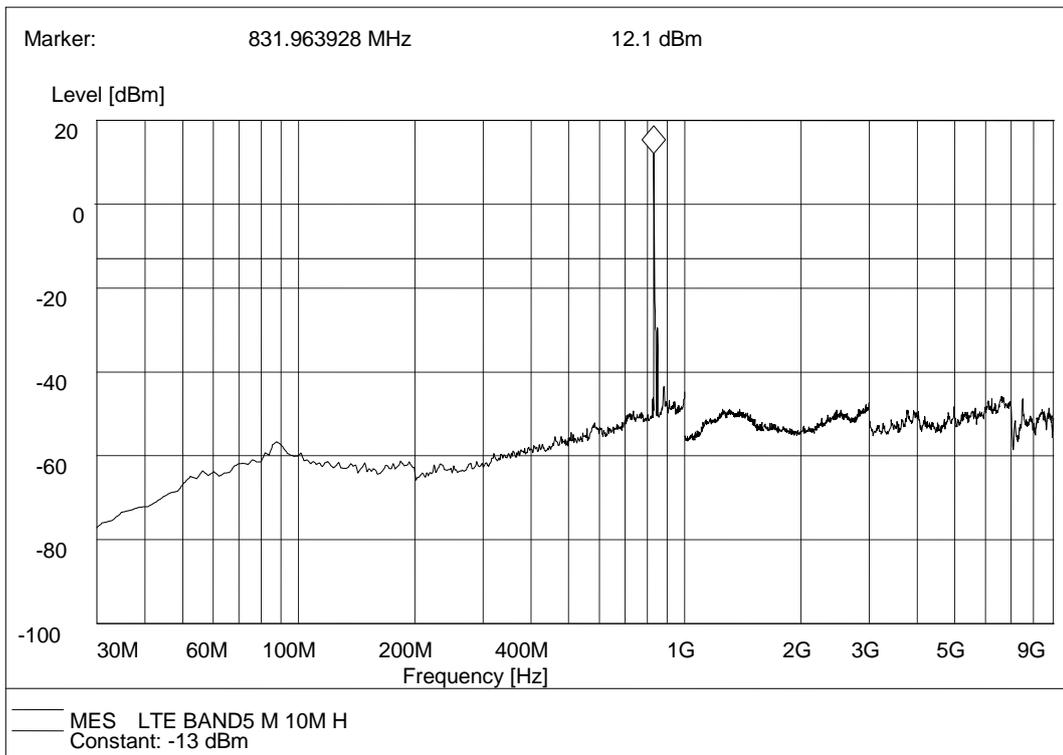
LTE Band 5 QPSK 3MHz BW Test Antenna Vertical



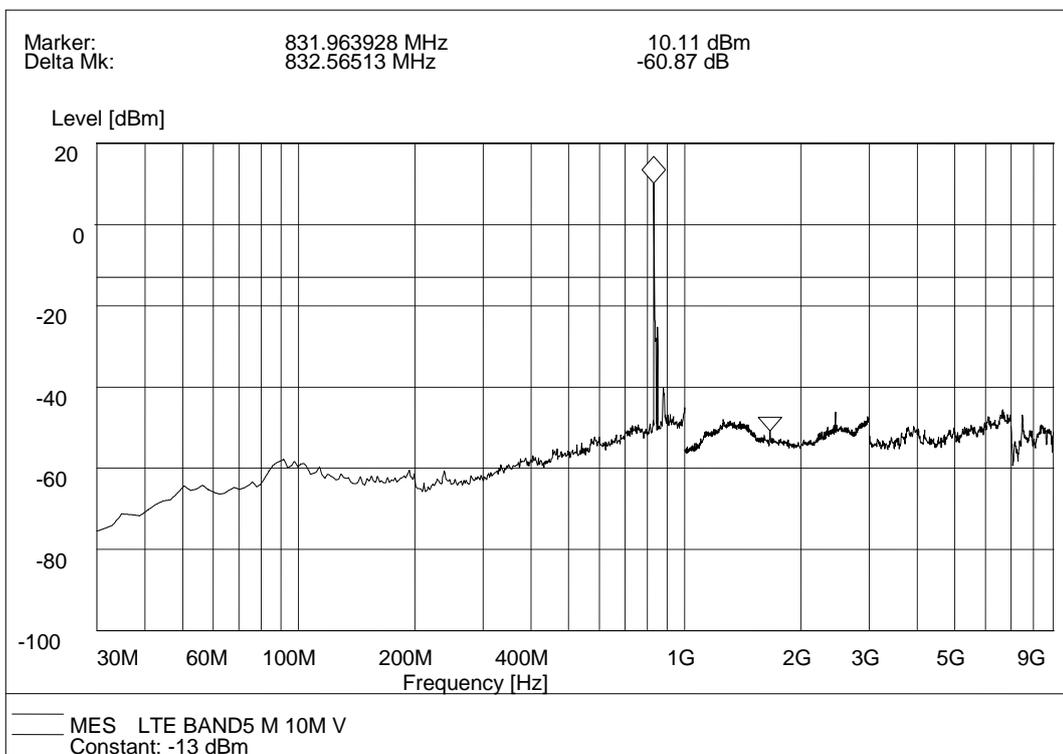
LTE Band 5 QPSK 5MHz BW Test Antenna Horizontal



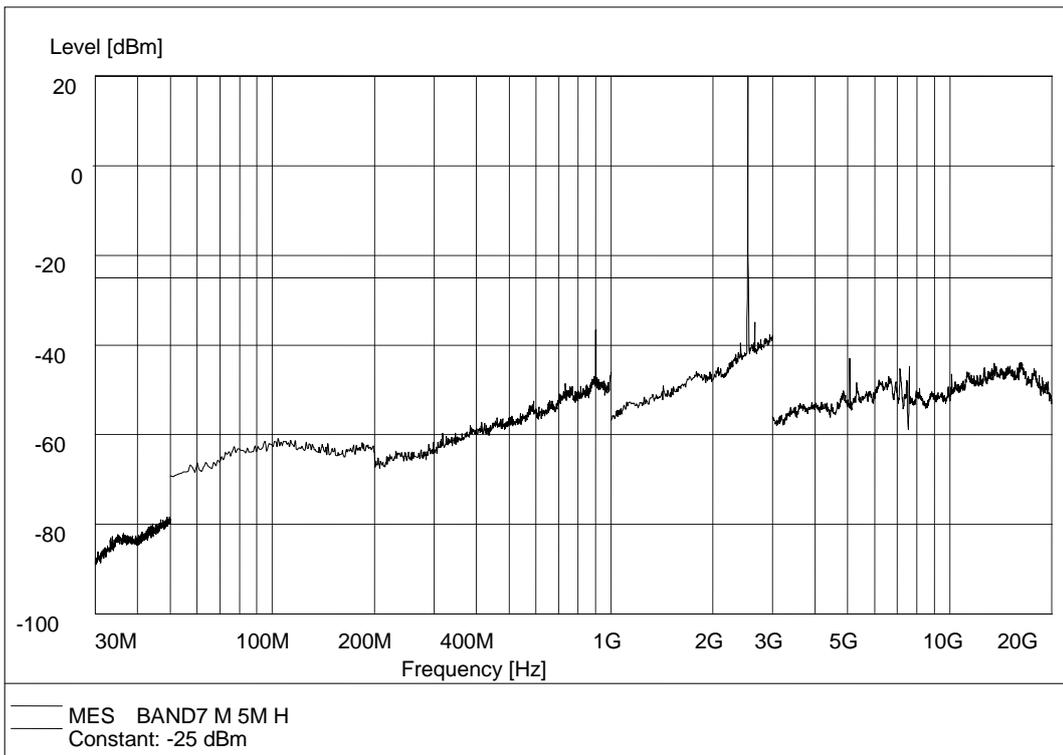
LTE Band 5 QPSK 5MHz BW Test Antenna Vertical



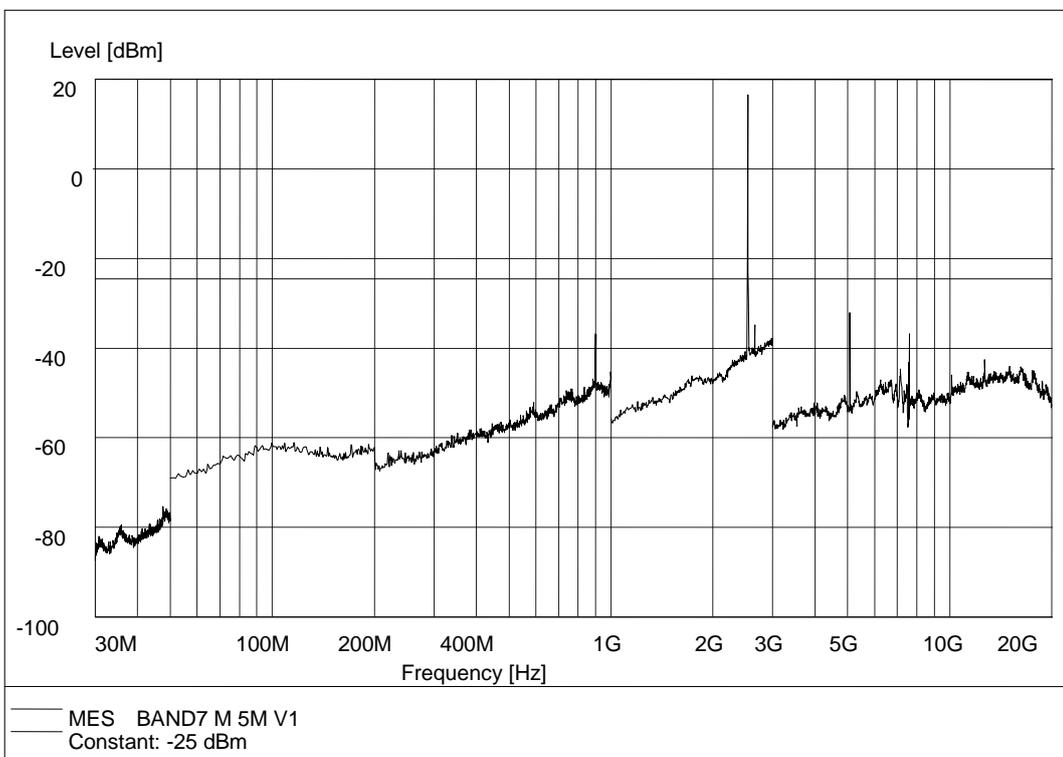
LTE Band 5 QPSK 10MHz BW Test Antenna Horizontal



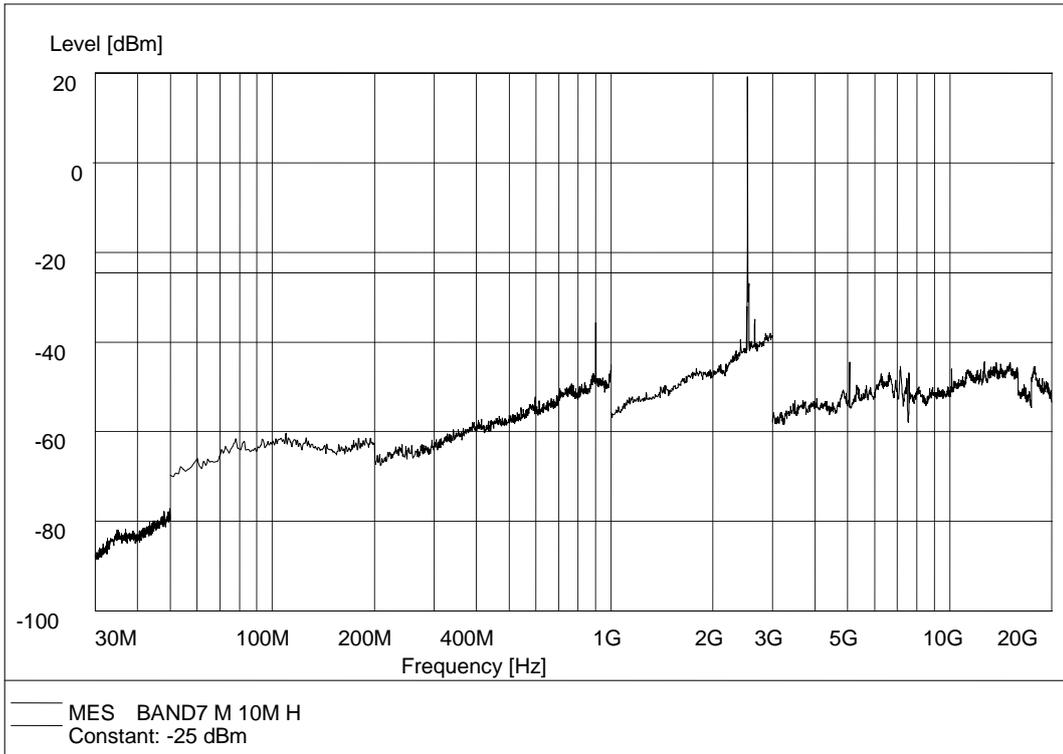
LTE Band 5 QPSK 10MHz BW Test Antenna Vertical



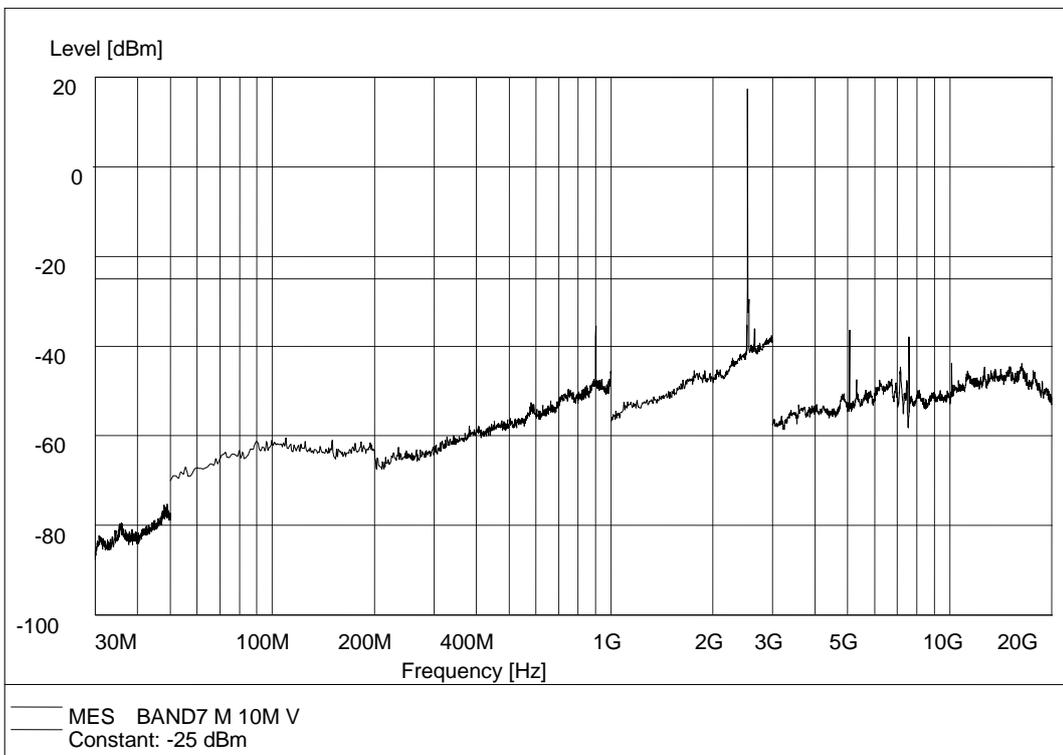
LTE Band 7 QPSK 5MHz BW Test Antenna Horizontal



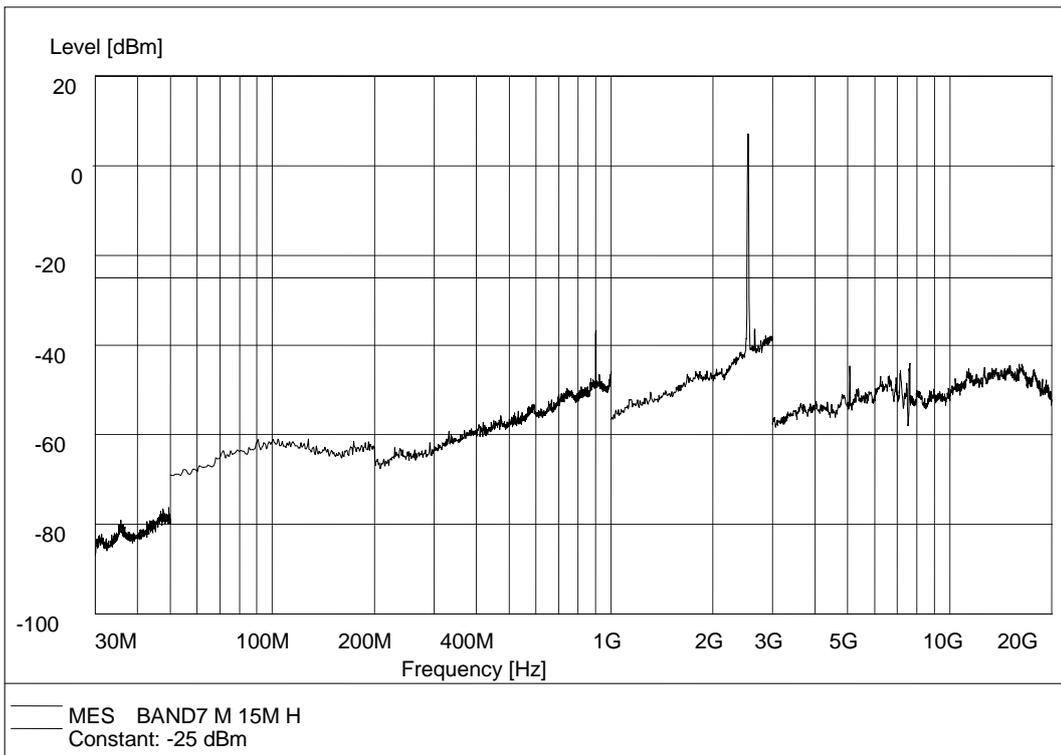
LTE Band 7 QPSK 5MHz BW Test Antenna Vertical



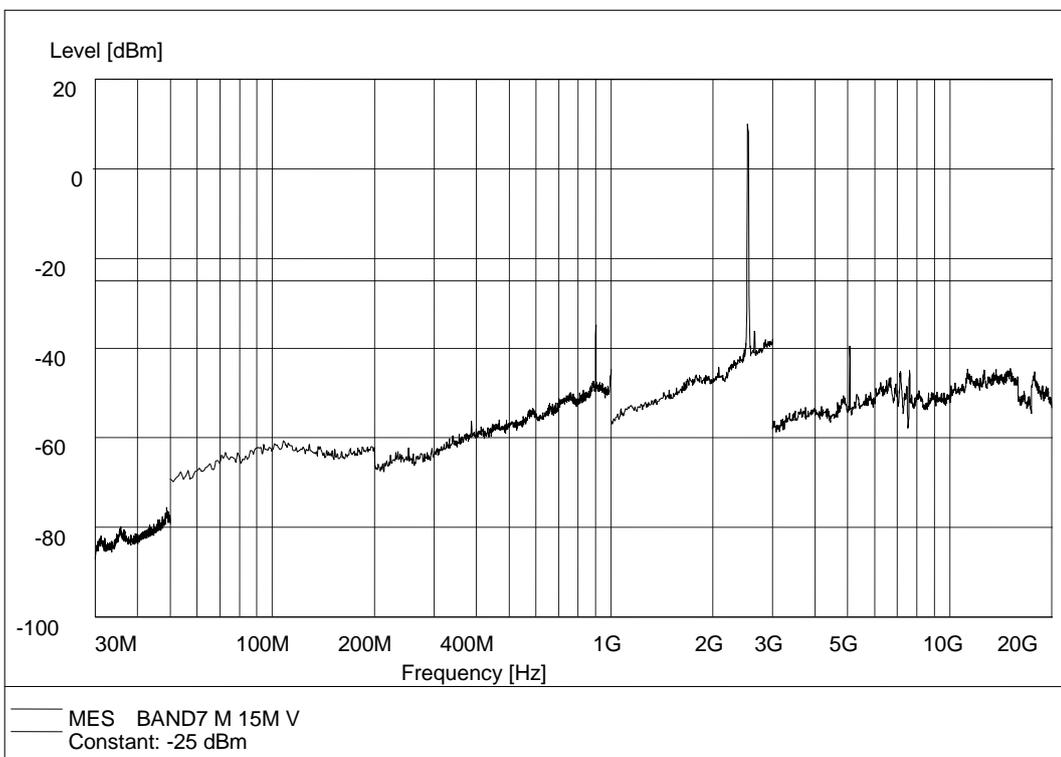
LTE Band 7 QPSK 10MHz BW Test Antenna Horizontal



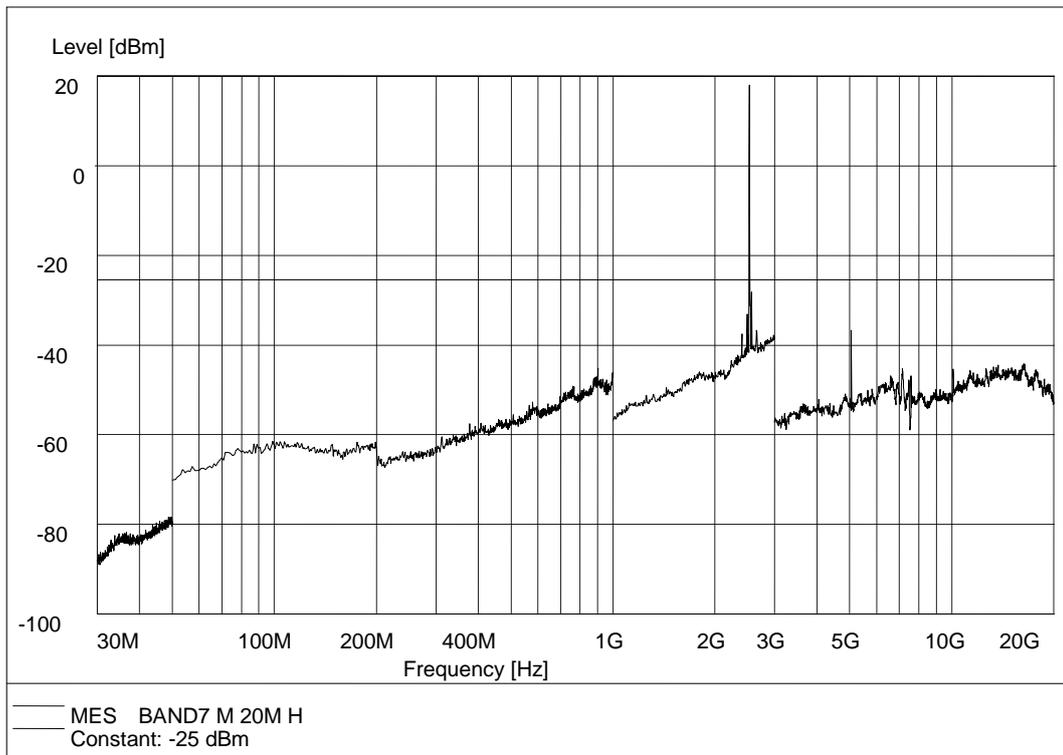
LTE Band 7 QPSK 10MHz BW Test Antenna Vertical



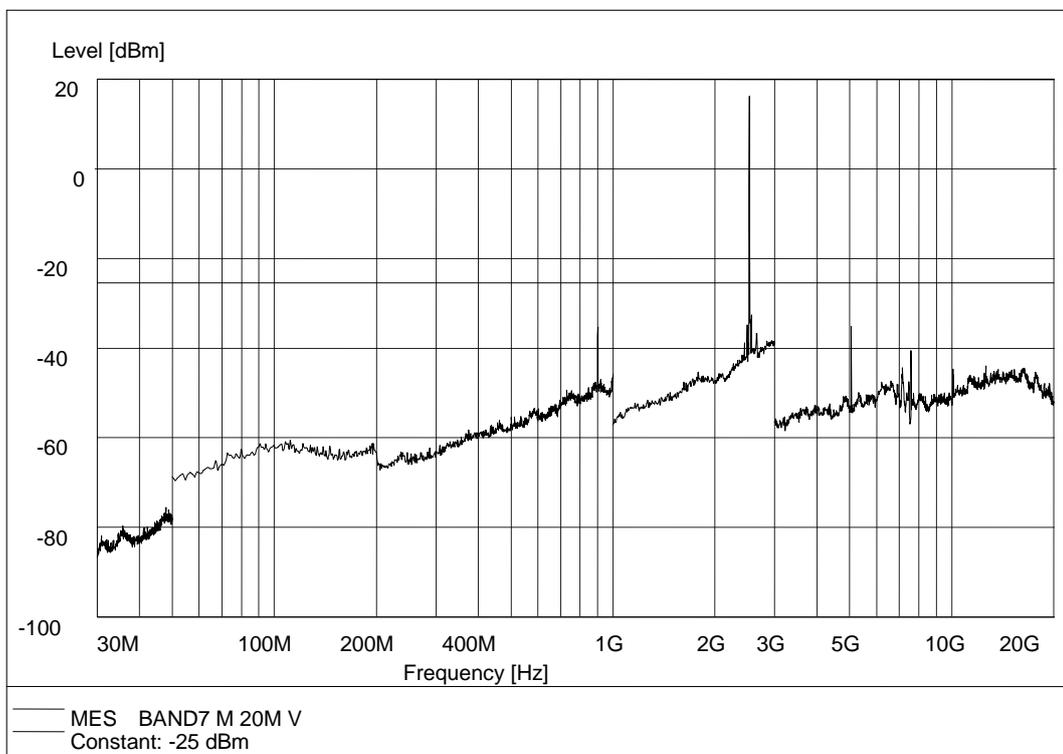
LTE Band 7 QPSK 15MHz BW Test Antenna Horizontal



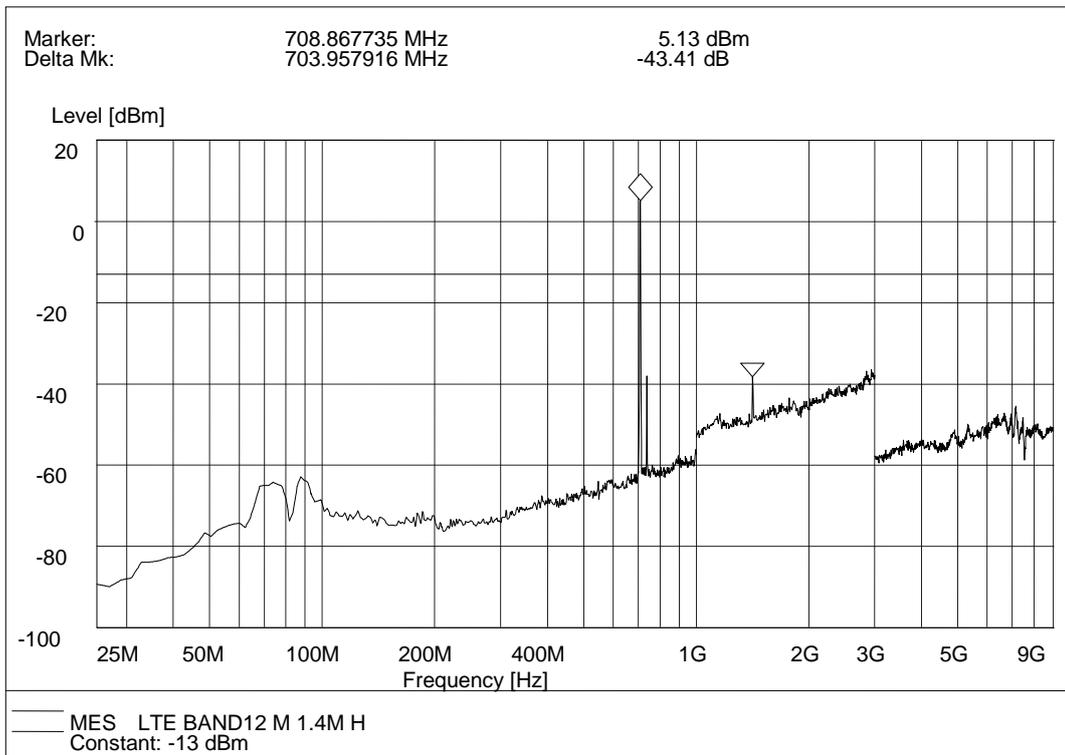
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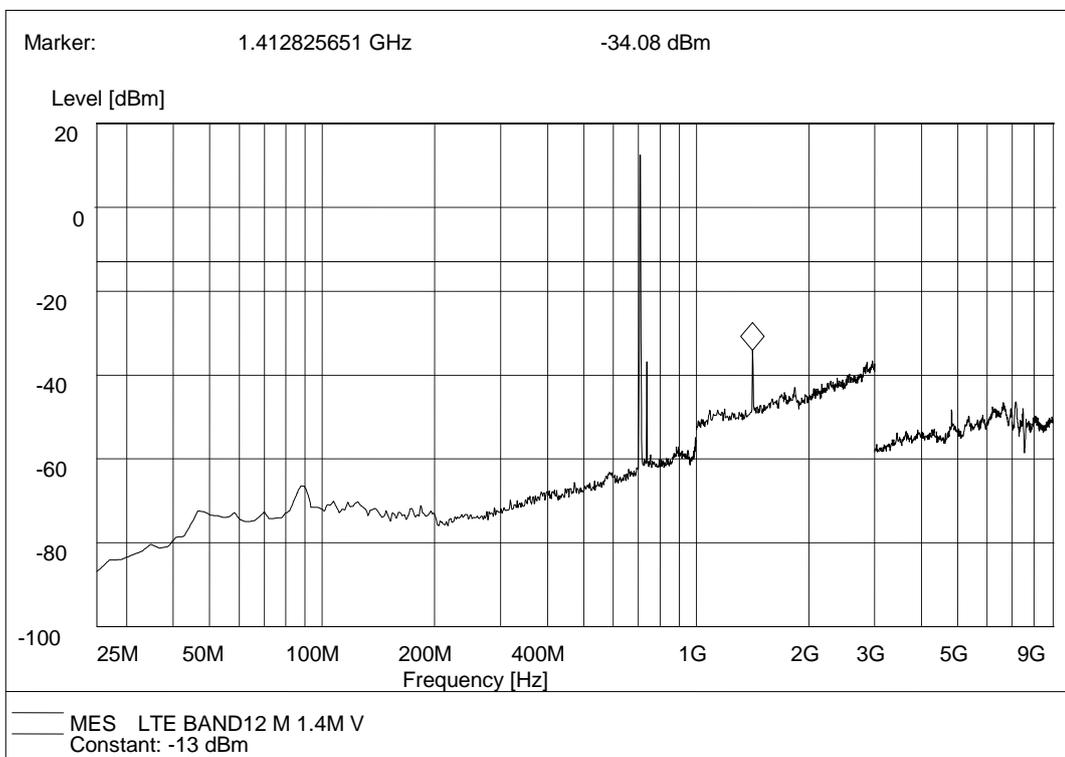
LTE Band 7 QPSK 20MHz BW Test Antenna Horizontal



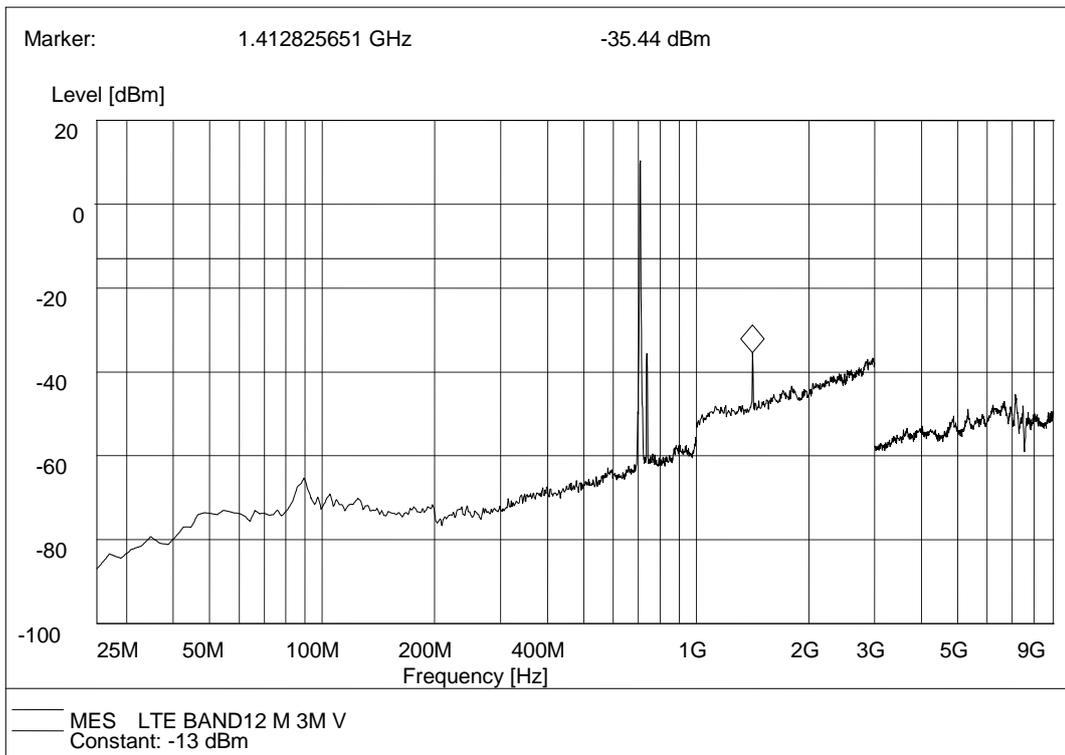
LTE Band 7 QPSK 20MHz BW Test Antenna Vertical



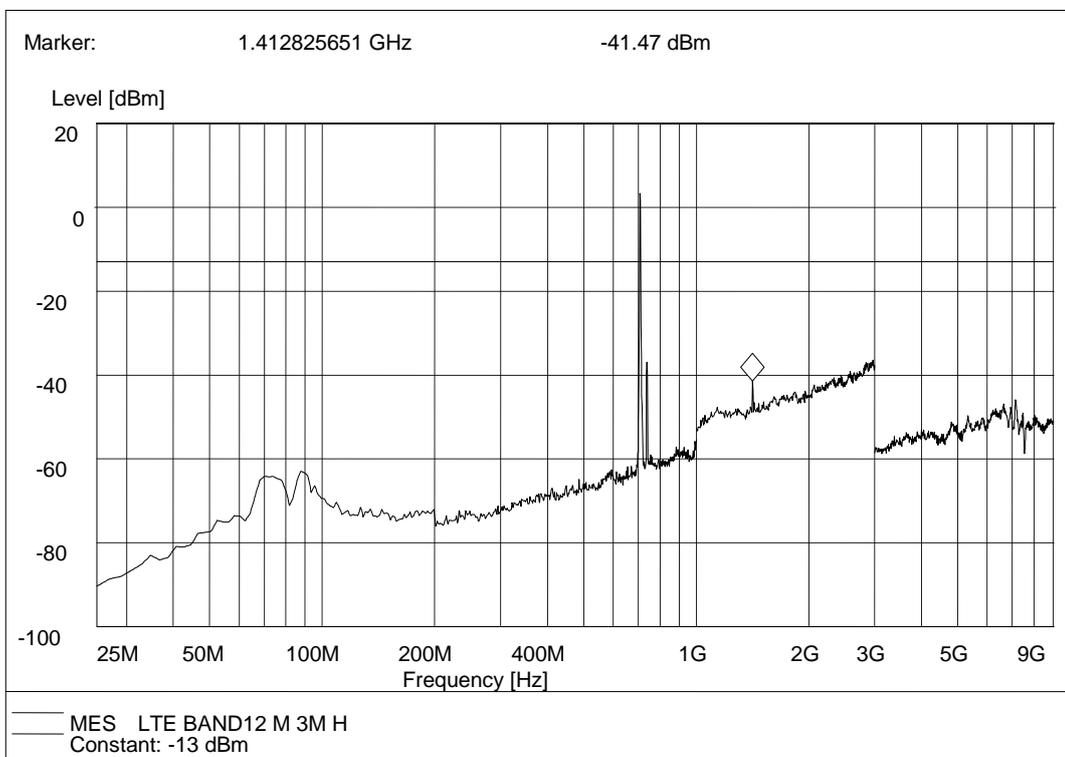
LTE Band 12 QPSK 1.4MHz BW Test Antenna Horizontal



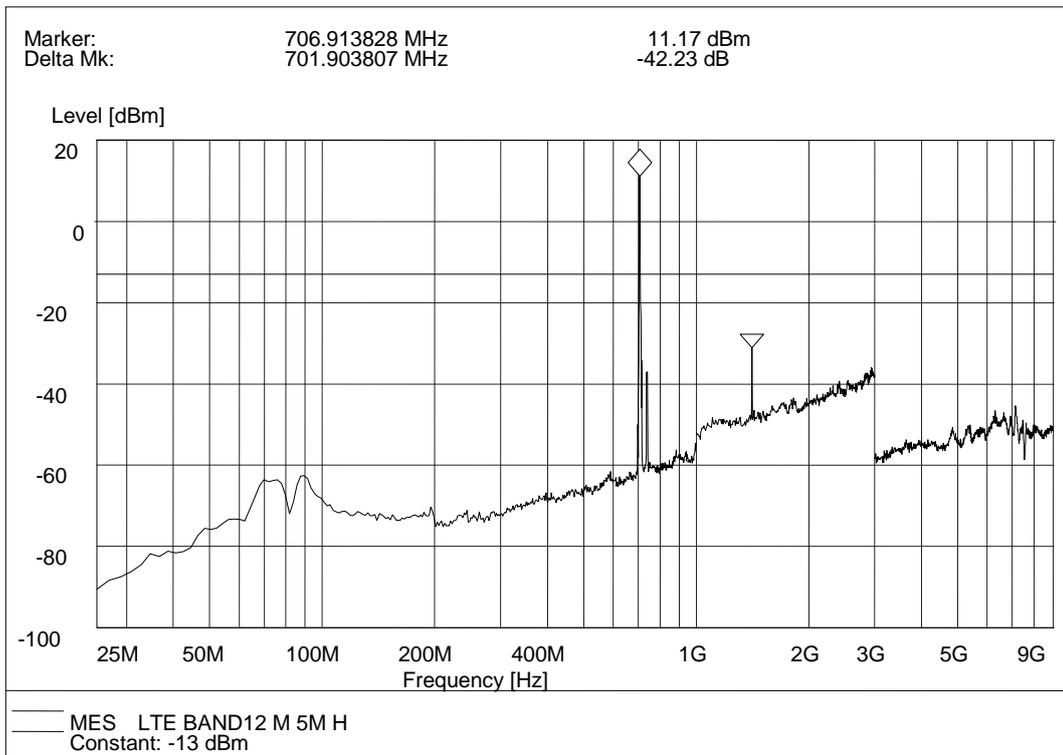
LTE Band 12 QPSK 1.4MHz BW Test Antenna Vertical



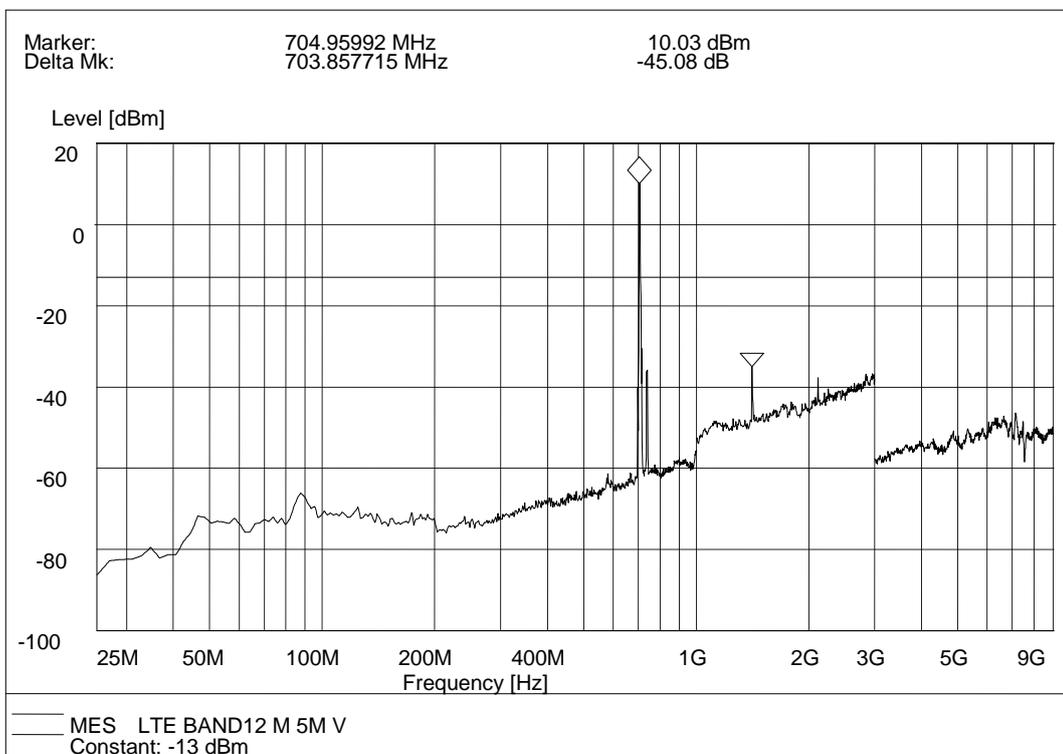
LTE Band 12 QPSK 3MHz BW Test Antenna Horizontal



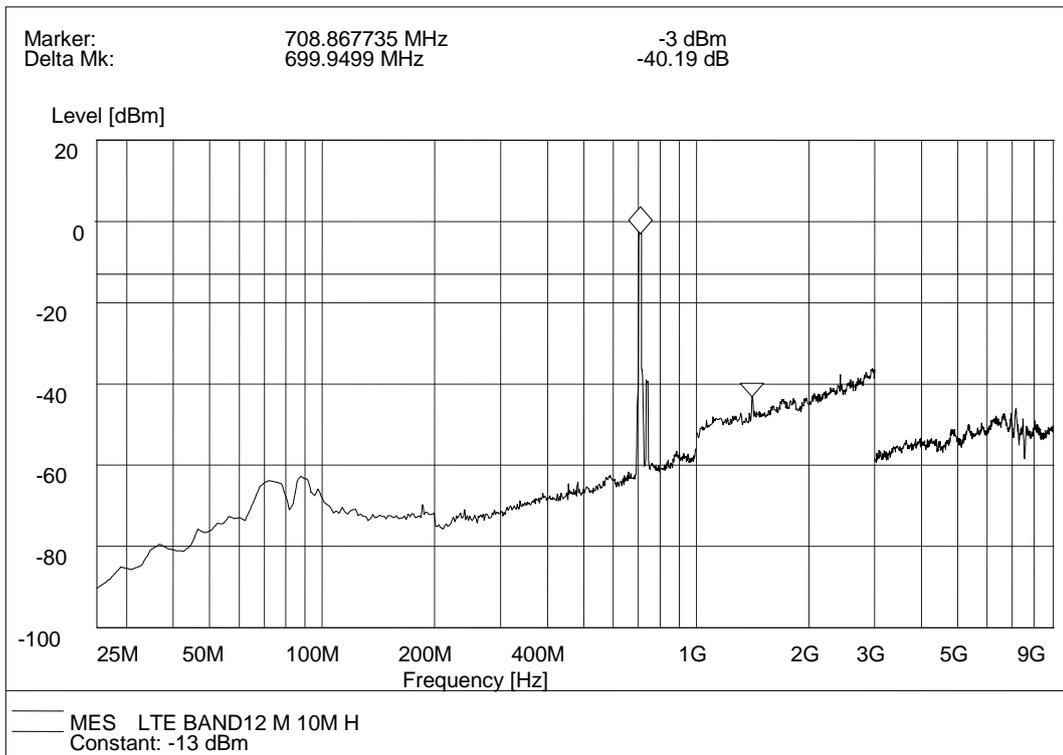
LTE Band 12 QPSK 3MHz BW Test Antenna Vertical



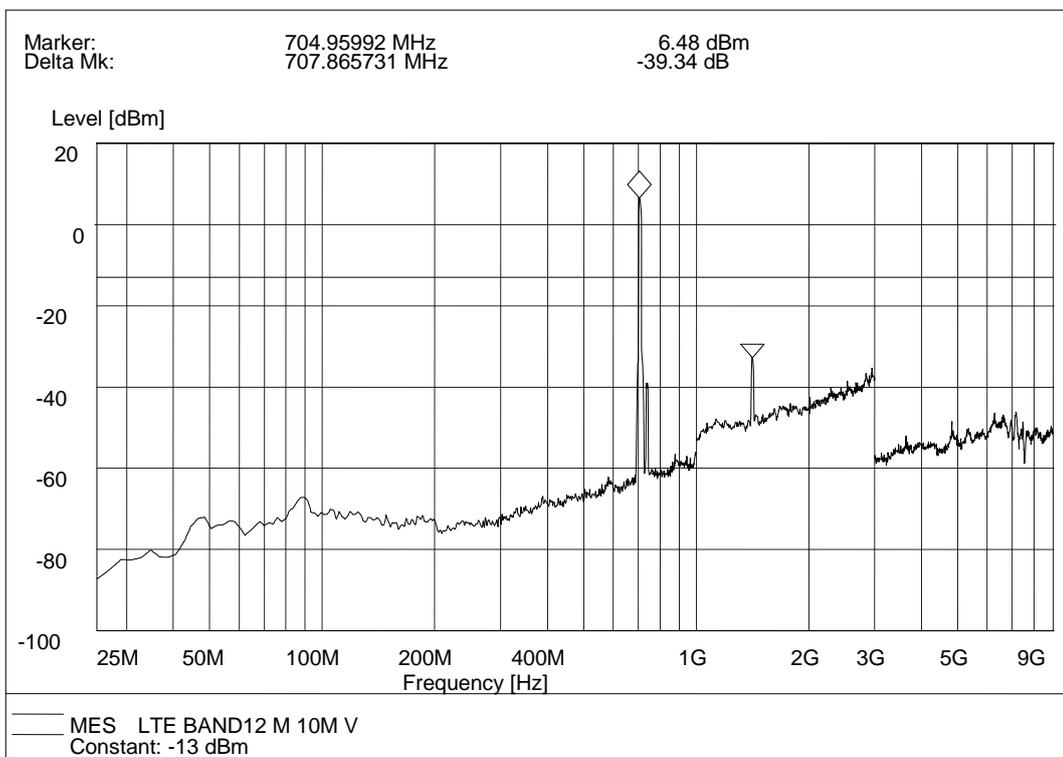
LTE Band 12 QPSK 5MHz BW Test Antenna Horizontal



LTE Band 12 QPSK 5MHz BW Test Antenna Vertical



LTE Band 12 QPSK 10MHz BW Test Antenna Horizontal



LTE Band 12 QPSK 10MHz BW Test Antenna Vertical



3. LIST OF MEASURING EQUIPMENT

Description	Manufacturer	Model	Serial No.	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB26	A0304218	2015.06.02	2016.06.01	Radiation
Full-Anechoic Chamber	Albatross	12.8m*6.8m* 6.4m	A0412372	2015.06.02	2016.06.01	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2015.06.02	2016.06.01	Radiation
Bilog Antenna	Schwarzbeck	VULB 9163	9163-274	2015.06.02	2016.06.01	Radiation
Double ridge horn antenna	R&S	HF906	100150	2015.06.02	2016.06.01	Radiation
Ultra-wideband antenna	R&S	HL562	100089	2015.06.02	2016.06.01	Radiation
Test Antenna – Horn (18-25GHz)	ETS	3160-09	A0902607	2015.06.02	2016.06.01	Radiation
Amplifier 20M~3GHz	R&S	PAP-0203H	22018	2015.06.02	2016.06.01	Radiation
Amplifier 1G~18GHz	R&S	MITEQ AFS42-00101 800	25-S-42	2015.06.02	2016.06.01	Radiation
Amplifier 18G~40GHz	R&S	JS42-180026 00-28-5A	12111.0980.00	2015.06.02	2016.06.01	Radiation
Spectrum Analyzer	R&S	FSP40	100341	2015.07.27	2016.07.26	Conducted
Power Meter	R&S	NRP2	1020.1809.02	2015.06.02	2016.06.01	Conducted
Power Sensor	R&S	NRP-Z81	823.3618.03	2015.06.02	2016.06.01	Conducted
System Simulator	R&S	CMW500	148888	2015.09.10	2016.09.09	Conducted
LISN	ROHDE&SCH WARZ	ESH2-Z5	A0304221	2015.06.02	2016.06.01	Conducted
Test Receiver	R&S	ESCS30	A0304260	2015.06.02	2016.06.01	Conducted
Cable	SUNHNER	SUCOFLEX 100	/	2015.06.02	2016.06.01	Radiation
Cable	SUNHNER	SUCOFLEX 104	/	2015.06.02	2016.06.01	Radiation



4. UNCERTAINTY OF EVALUATION

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	2.35dB
Radiated emissions	9kHz~30MHz	2.59dB
	30MHz~1000MHz	2.45dB
	1G~18GHz	2.21dB
	18G~40GHz	1.96dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

**** END OF REPORT ****