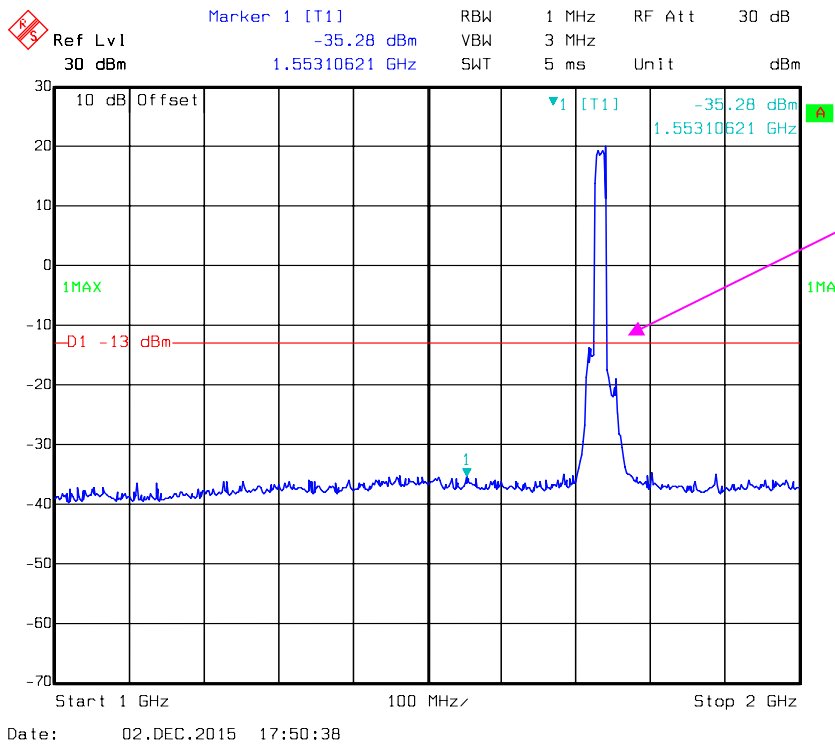
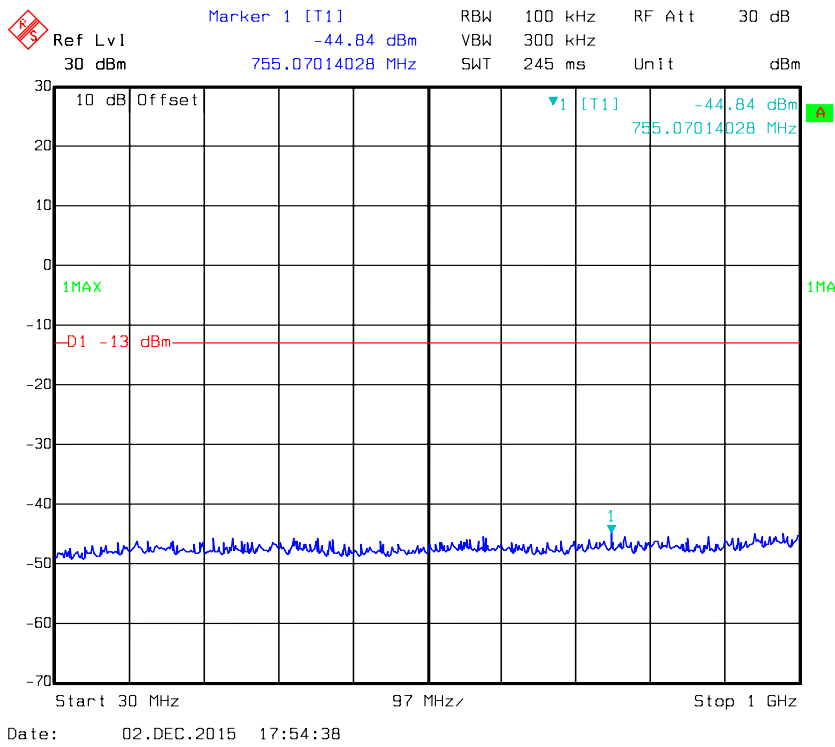
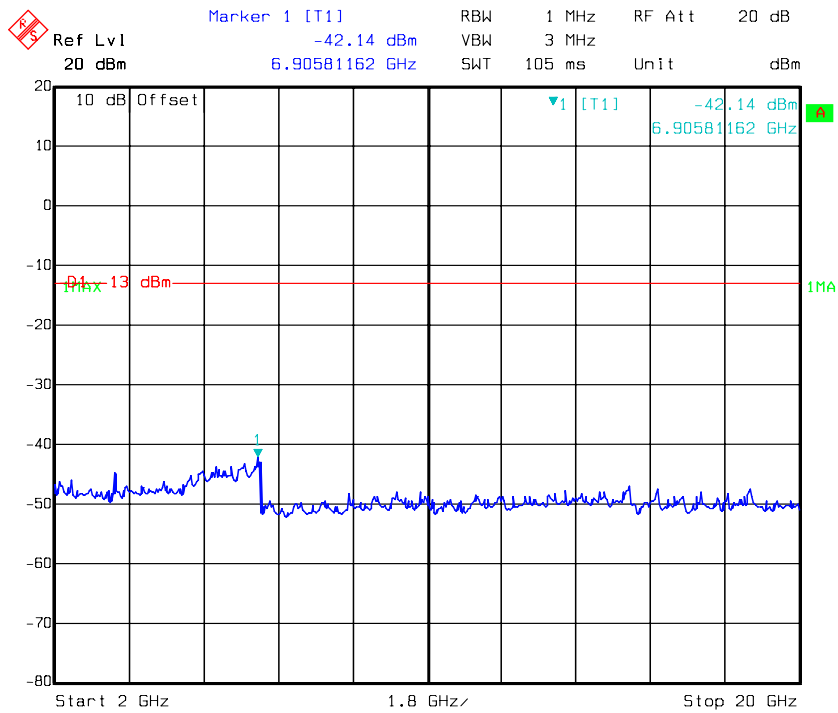
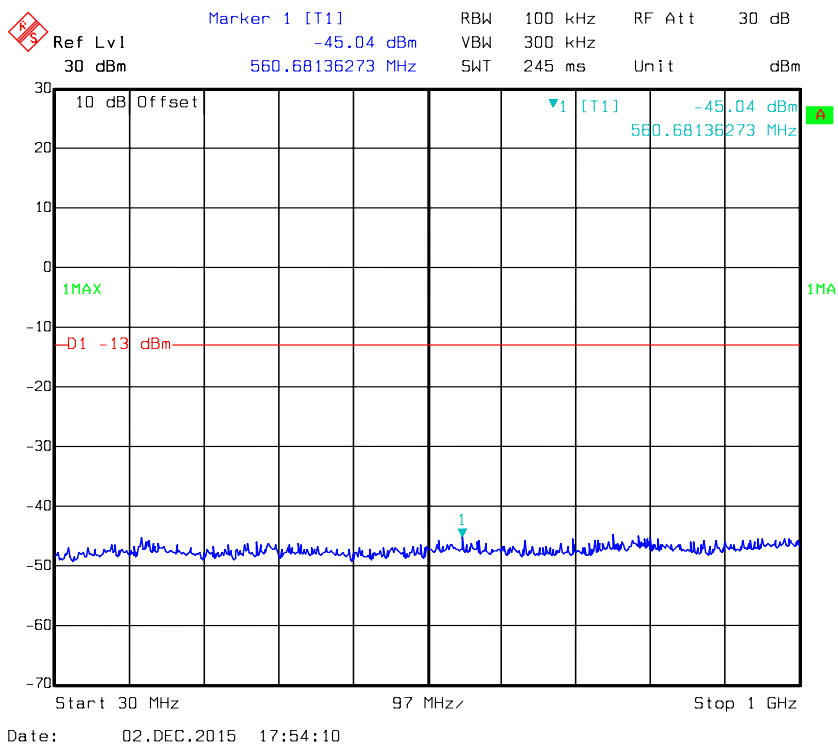


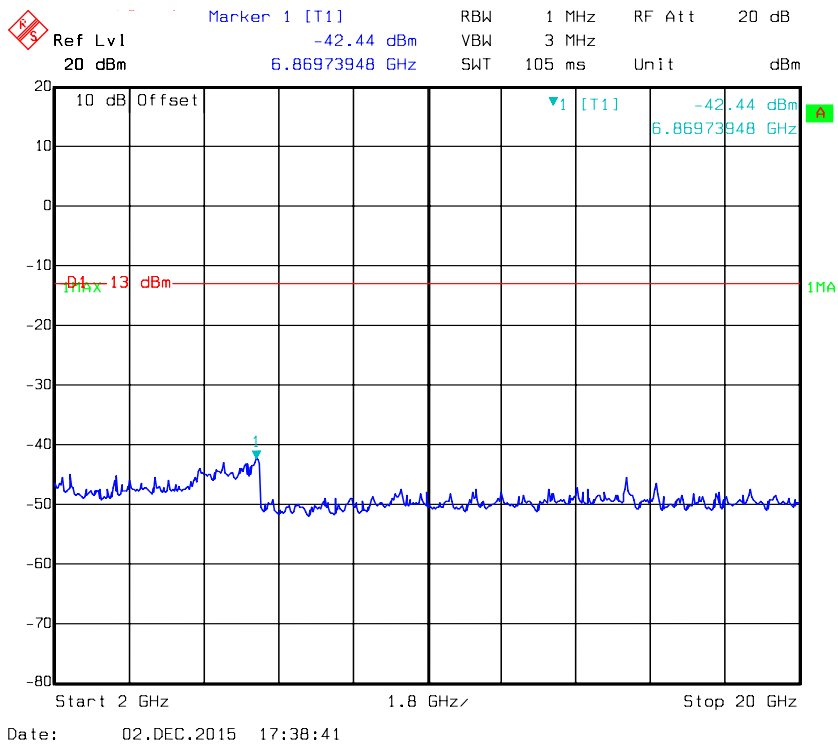
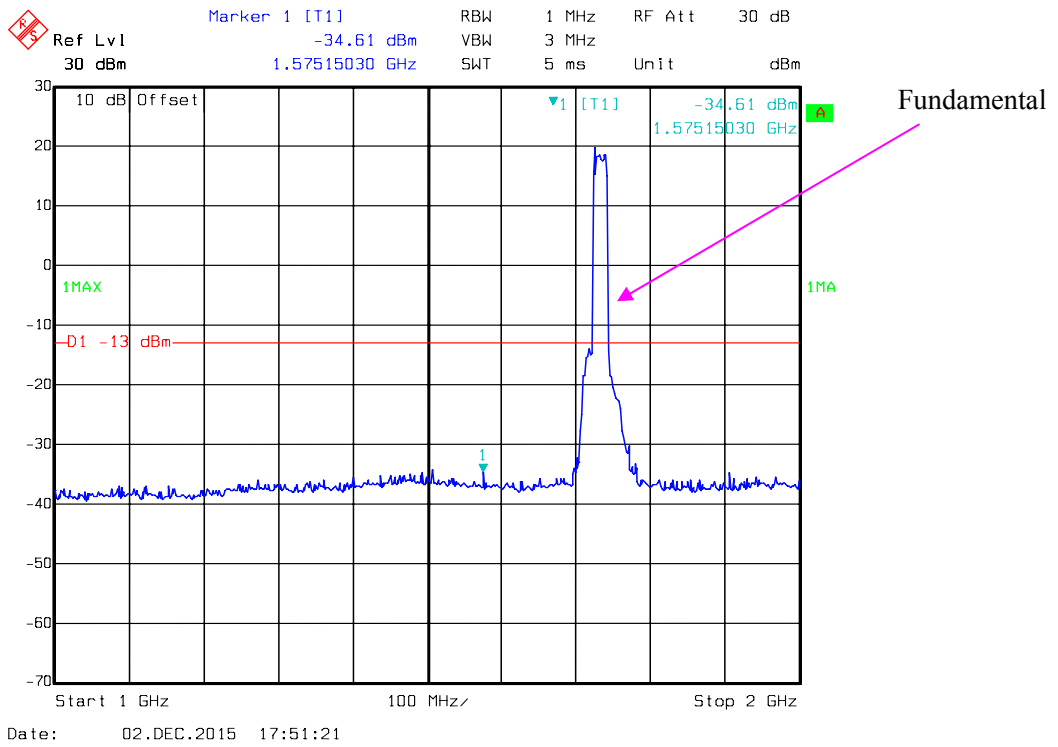
QPSK, Band 4-15M _ Middle Channel



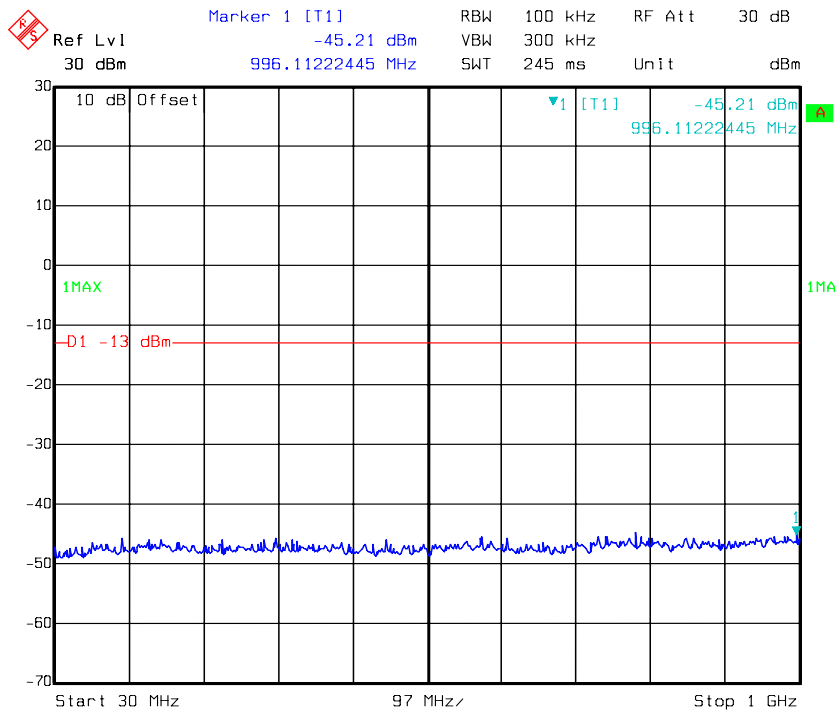


QPSK, Band 4-20M _ Middle Channel

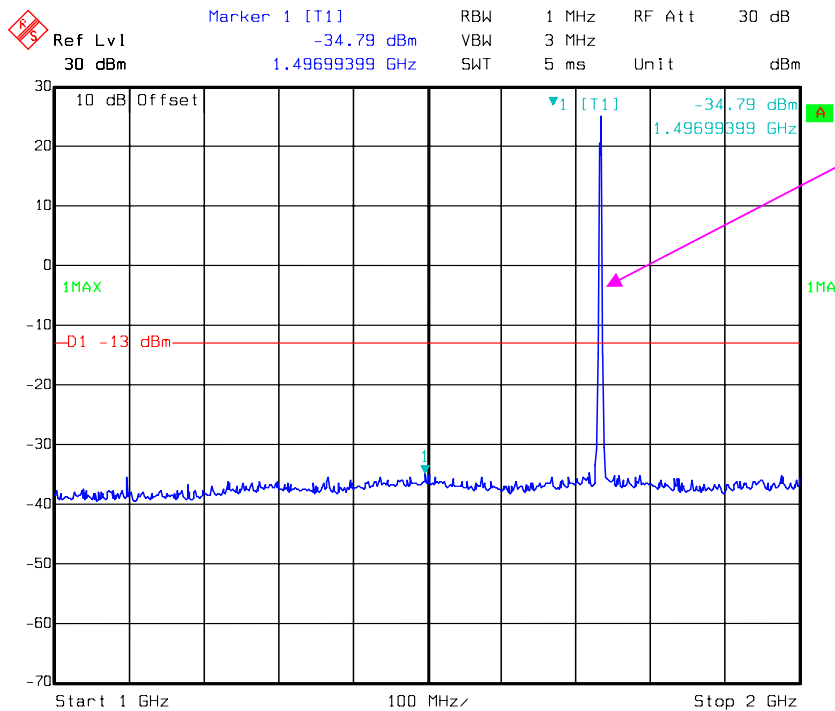




16-QAM, Band 4-1.4M _ Middle Channel

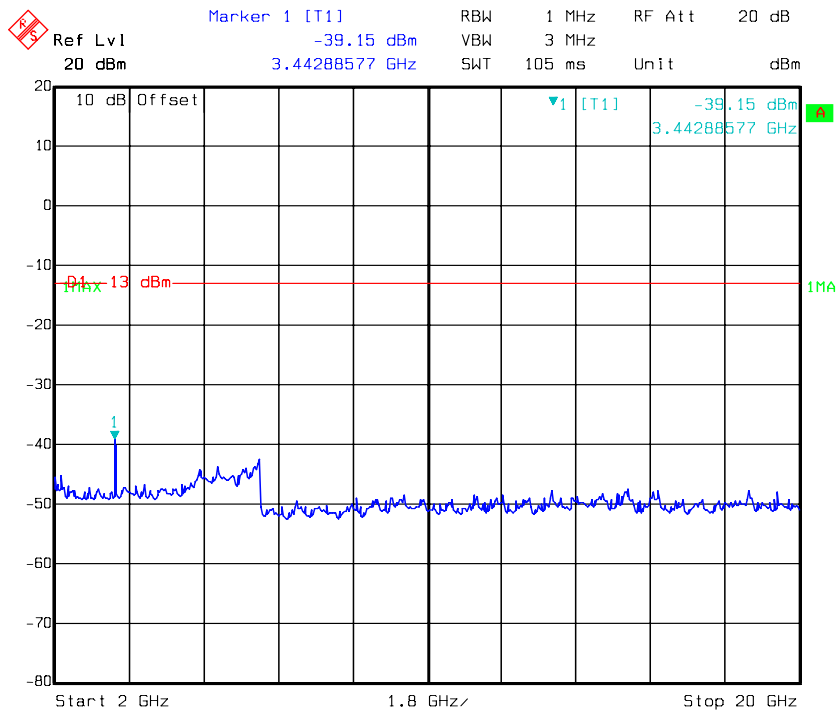


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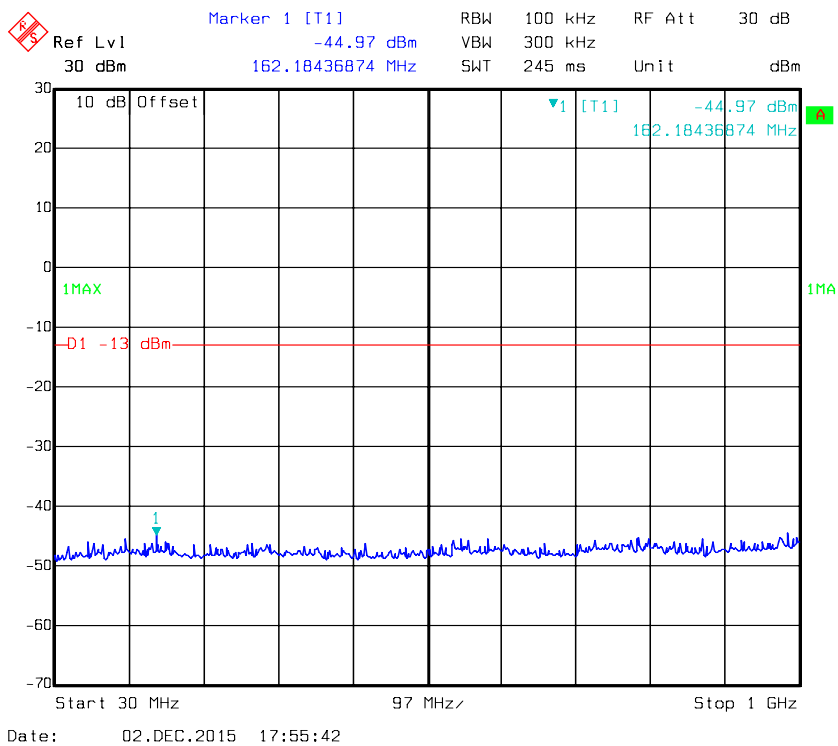


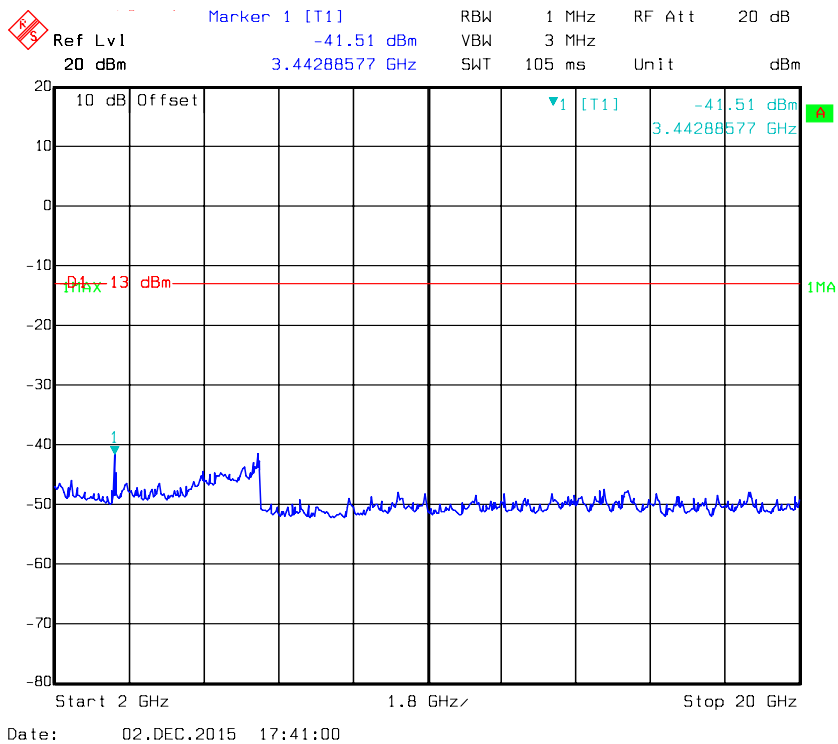
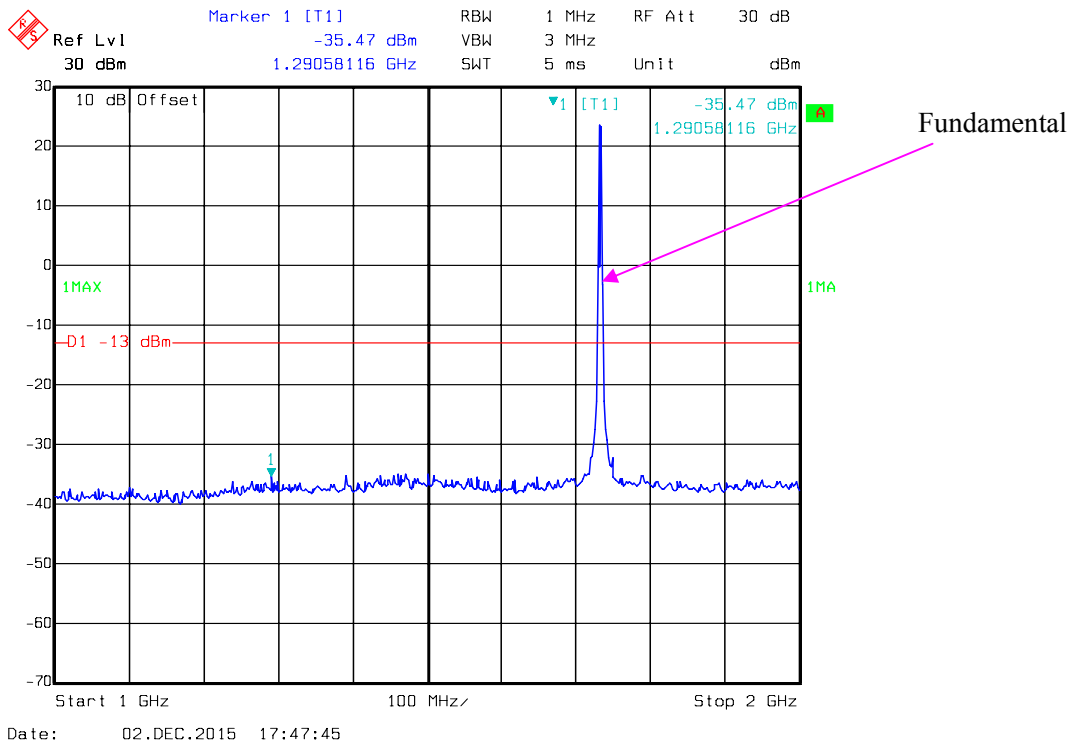
Fundamental

Date: 02.DEC.2015 17:46:59

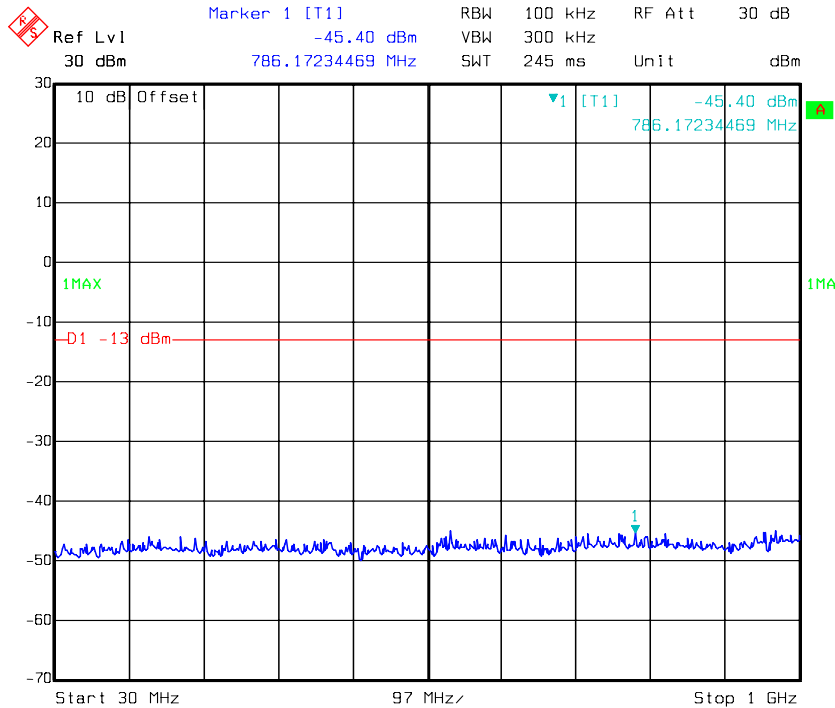


16-QAM, Band 4-3M_Middle Channel

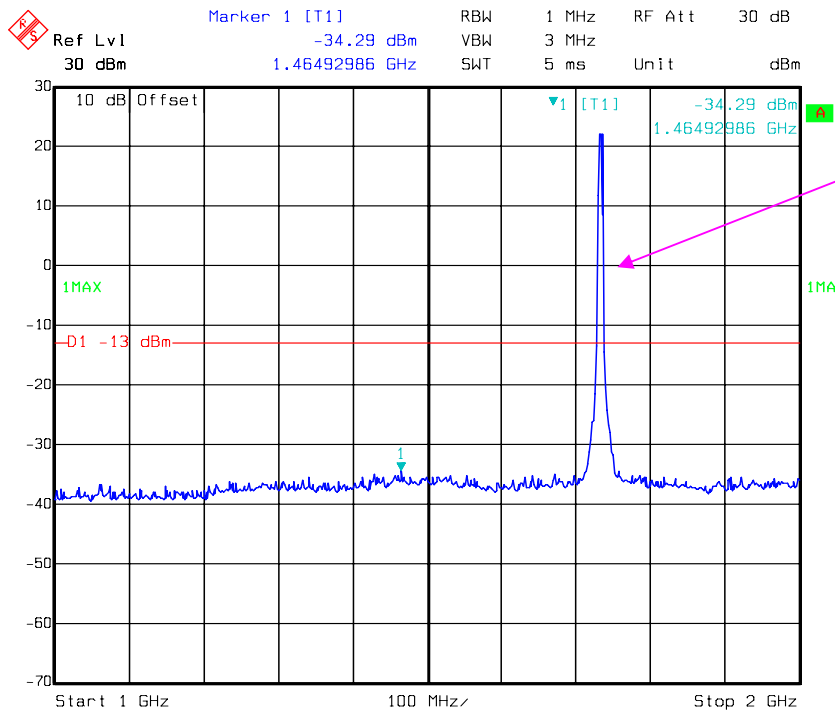




16-QAM, Band 4-5M _ Middle Channel

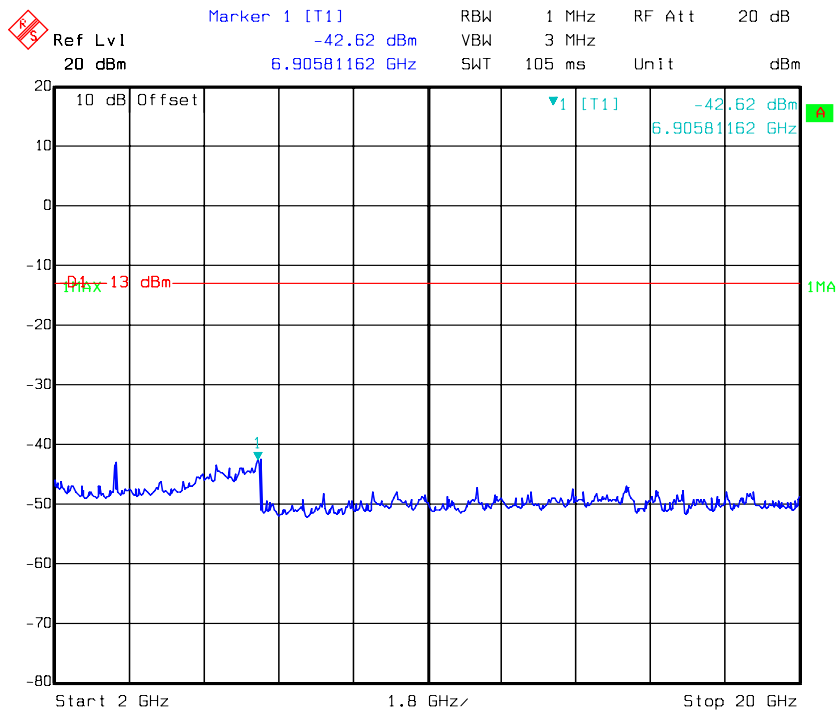


Date: 02.DEC.2015 17:55:14

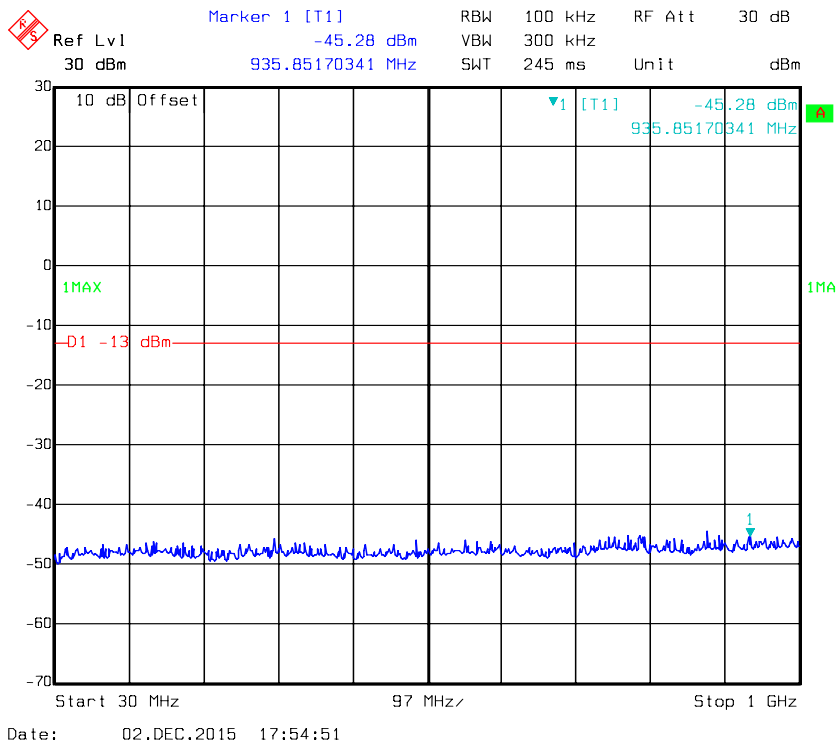


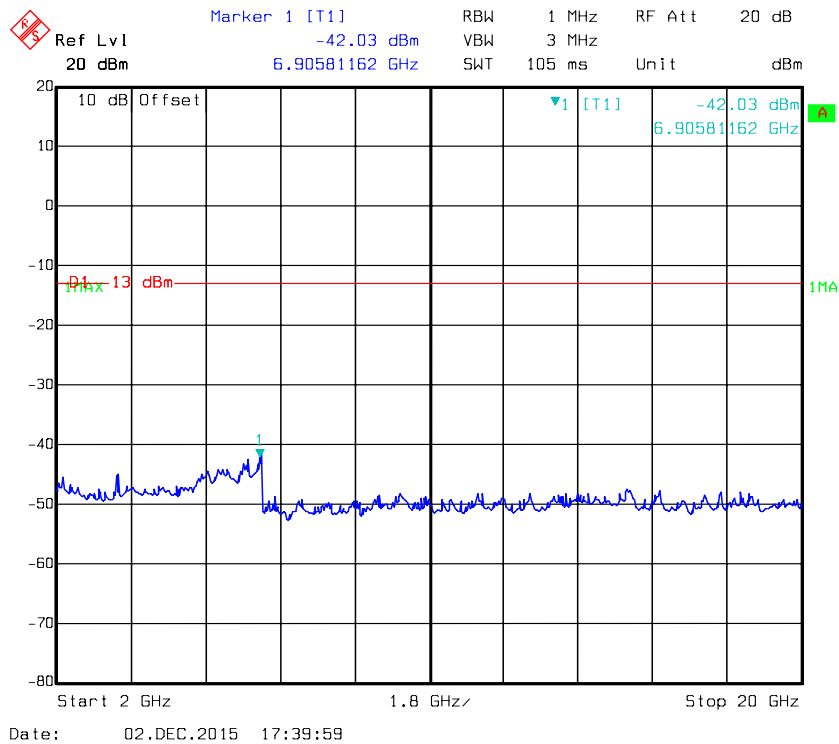
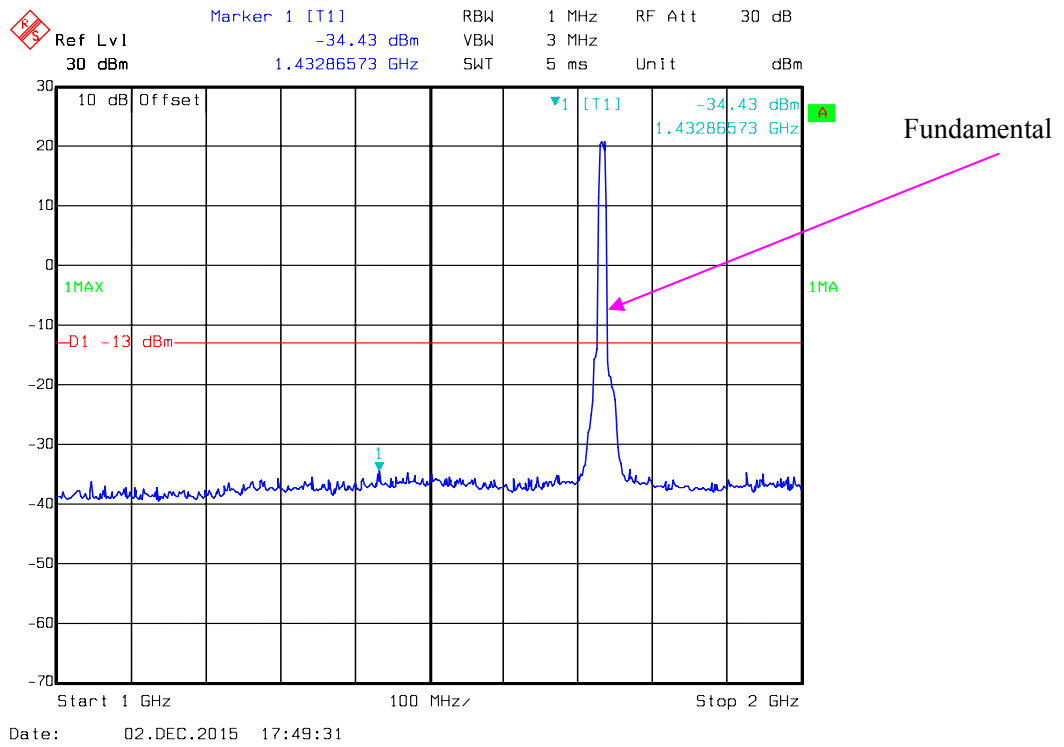
Fundamental

Date: 02.DEC.2015 17:48:29

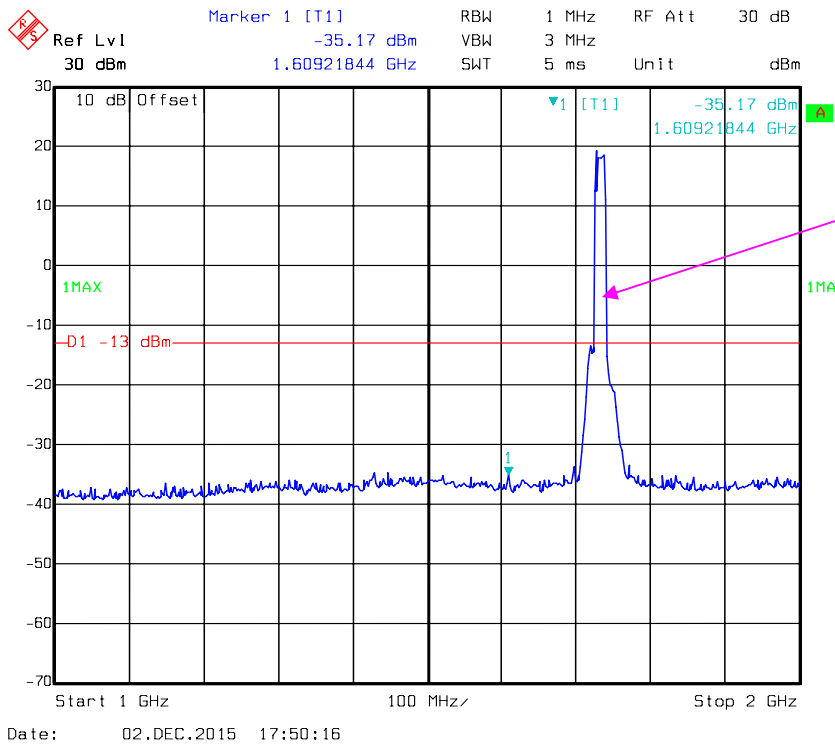
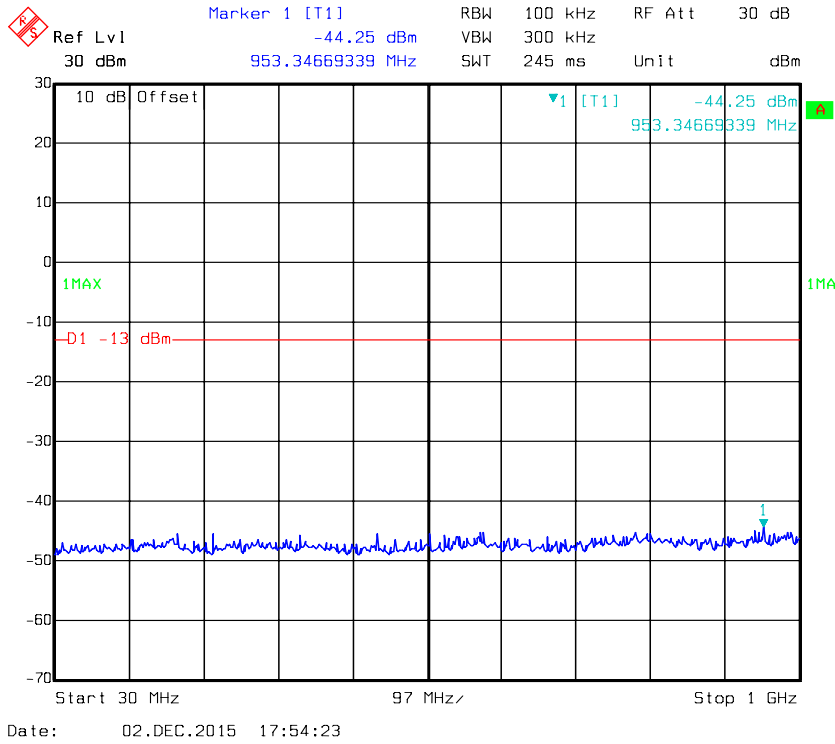


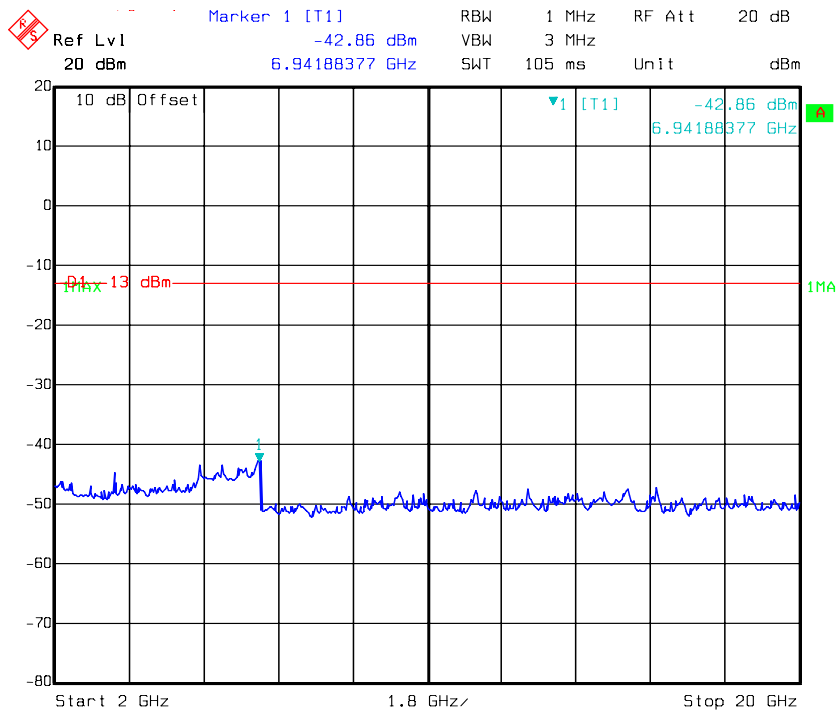
16-QAM, Band 4-10M_Middle Channel



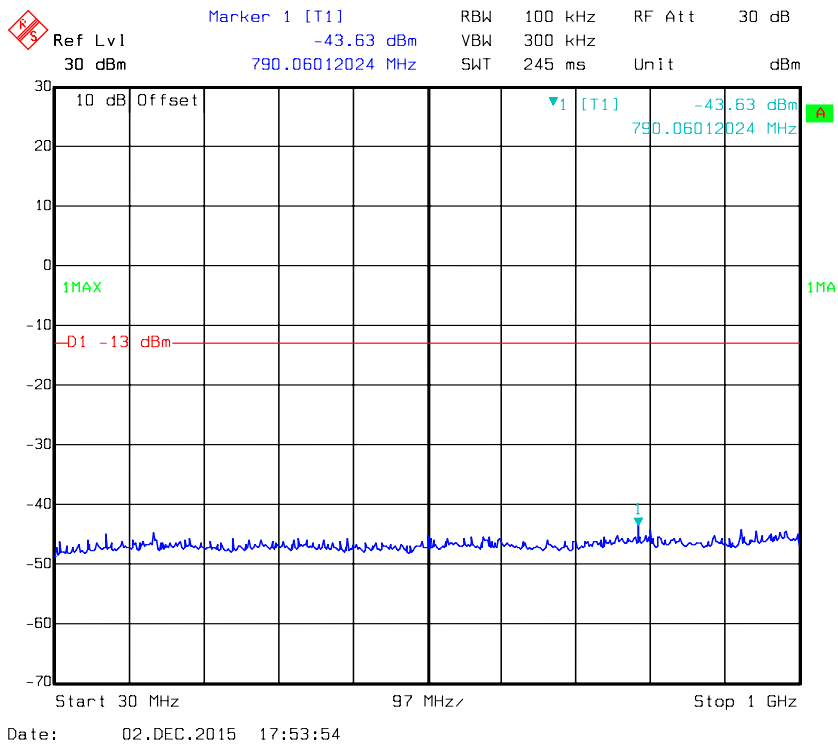


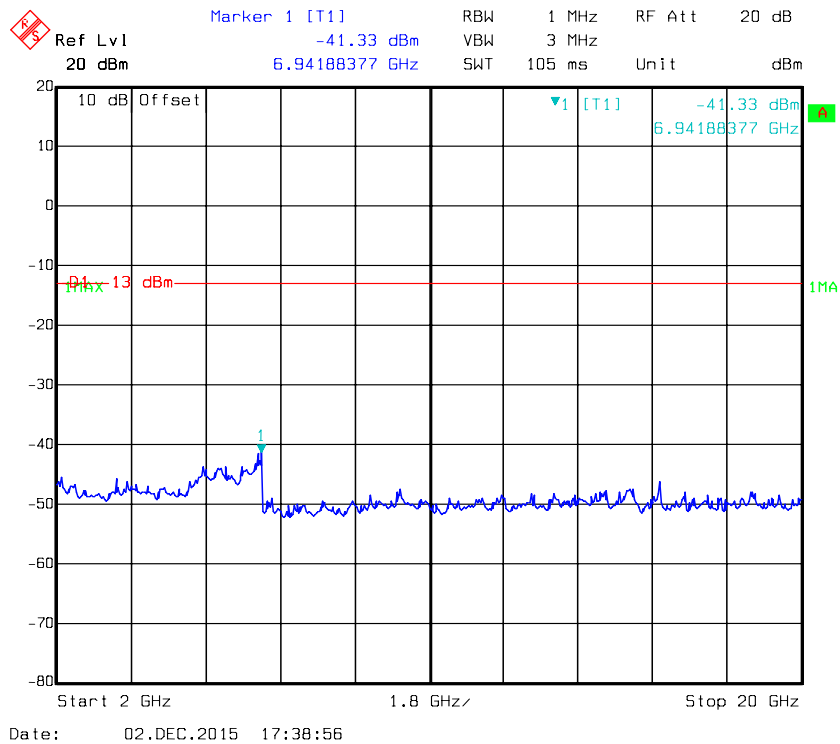
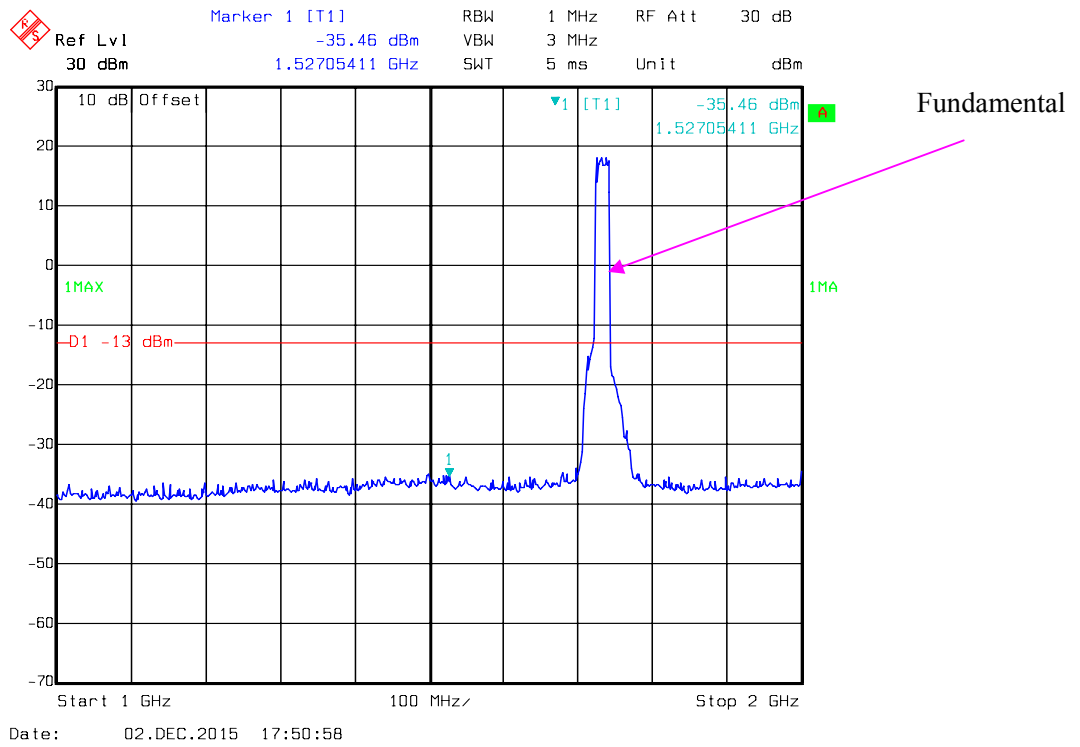
16-QAM, Band 4-15M _ Middle Channel





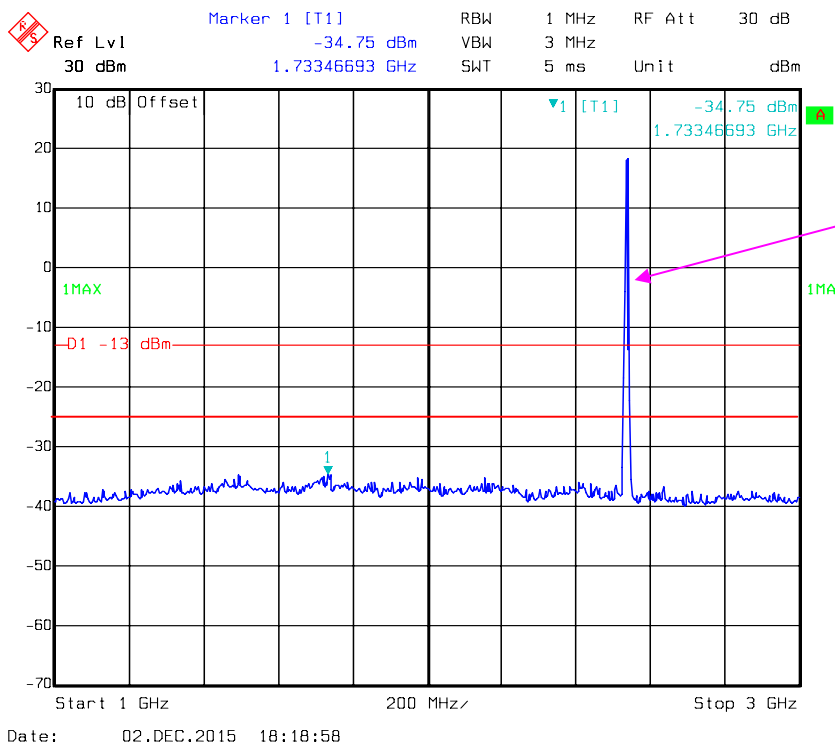
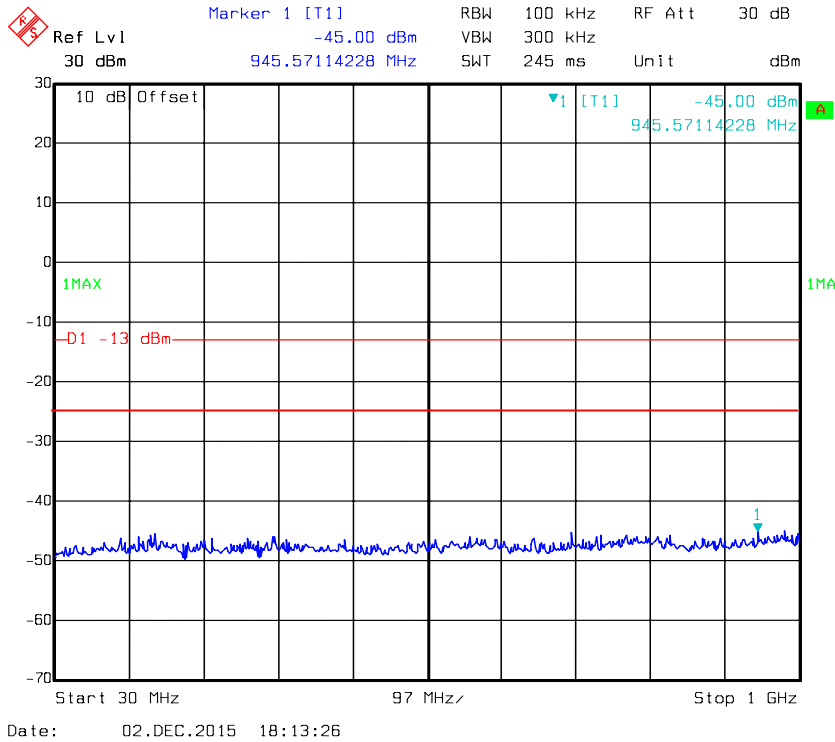
16-QAM, Band 4-20M_Middle Channel

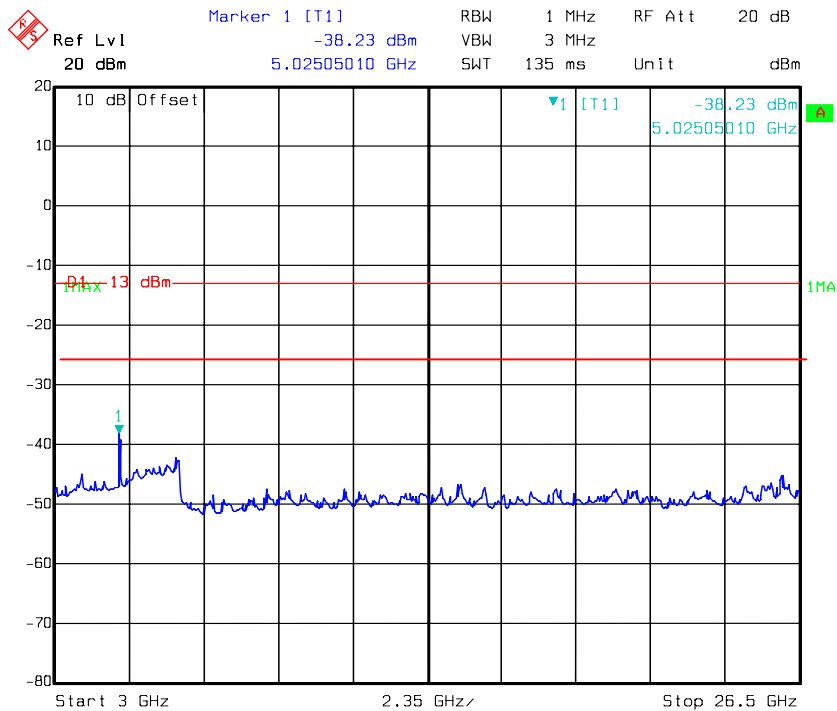




LTE Band 7:

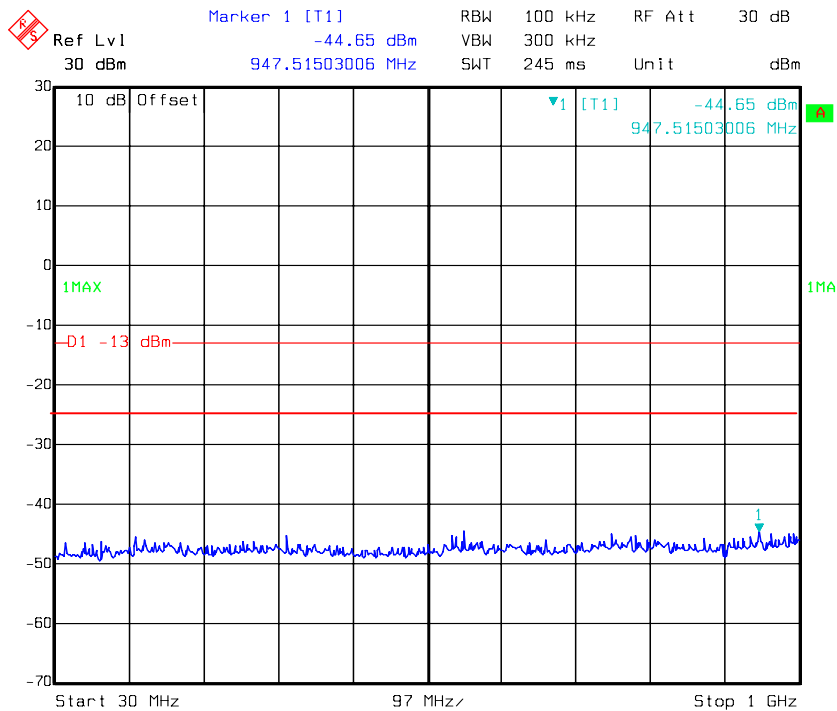
QPSK, Band 7-5M _ Middle Channel



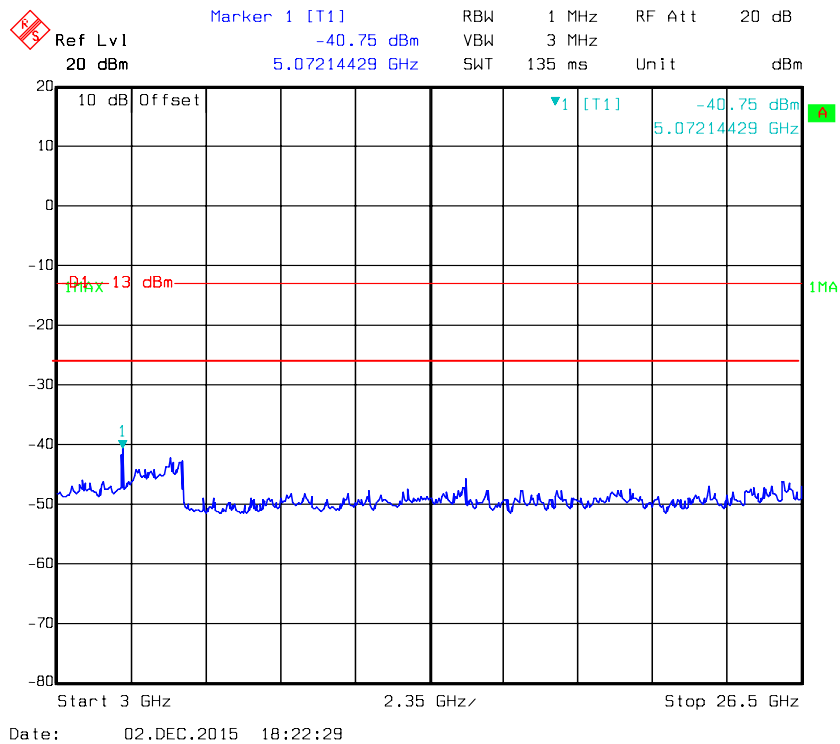
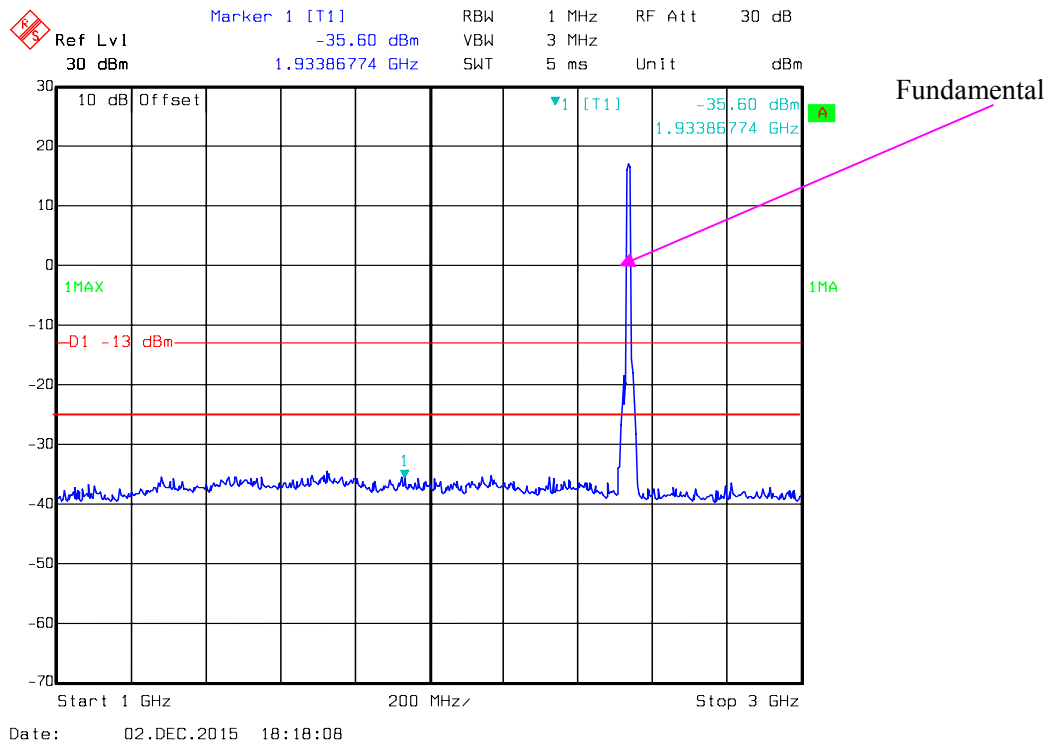


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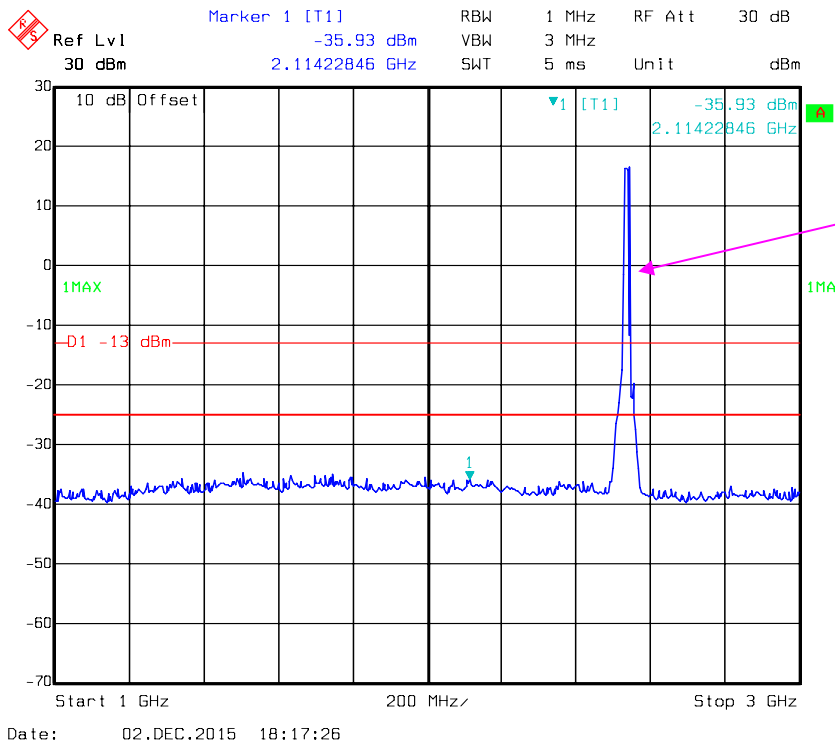
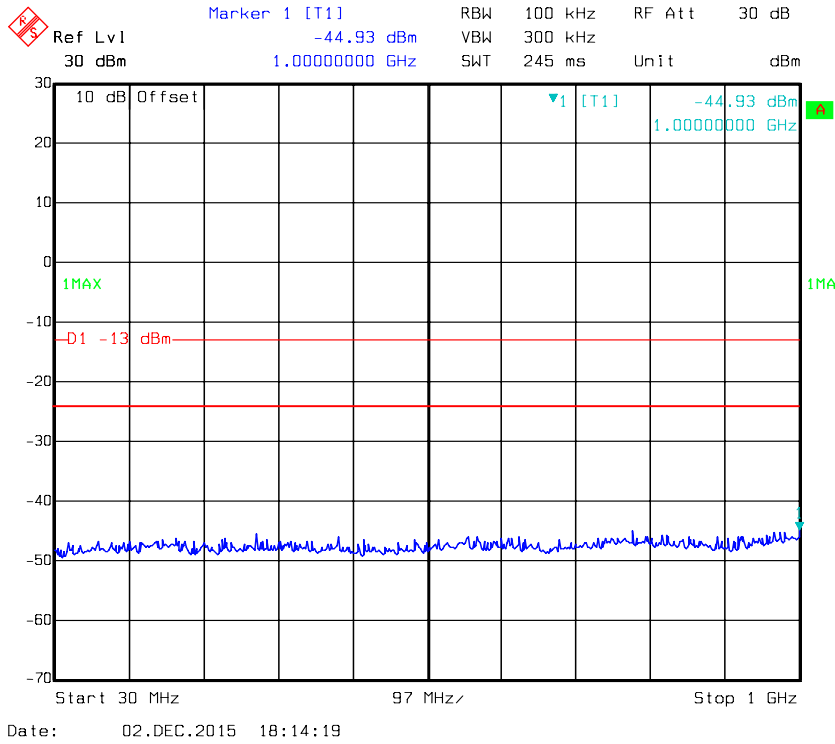
QPSK, Band 7-10M _ Middle Channel

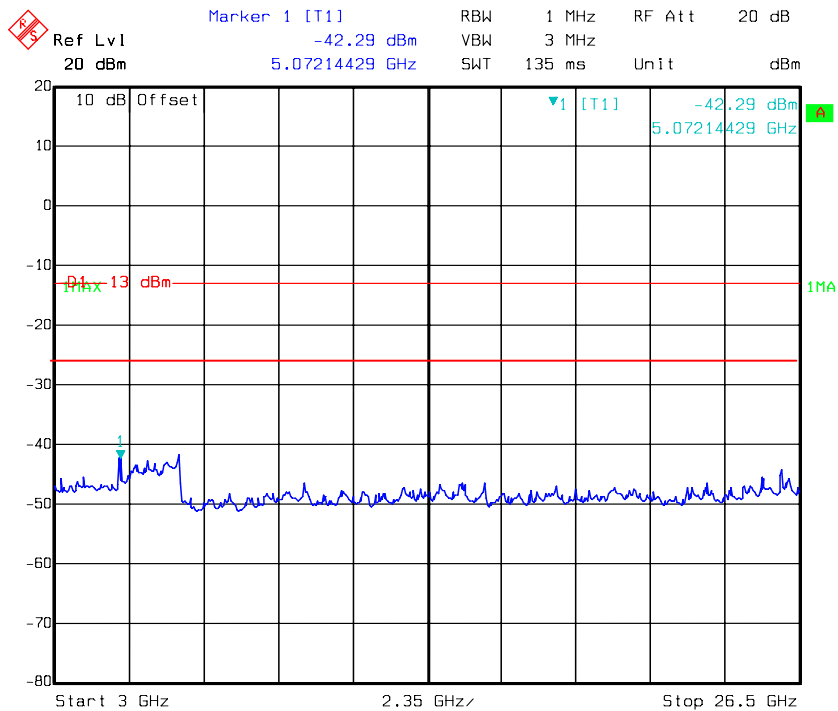


Date: 02.DEC.2015 18:13:52

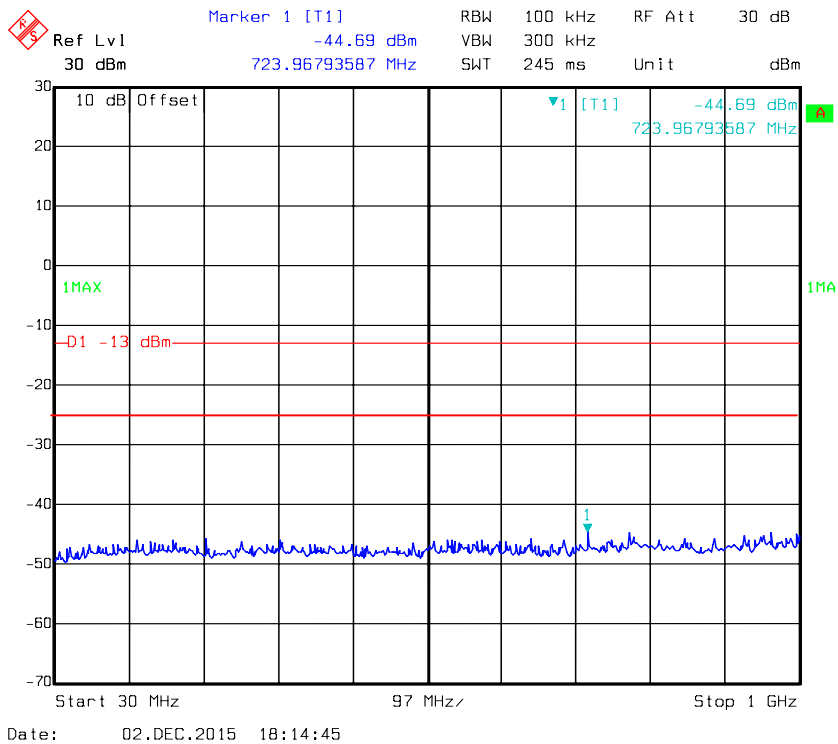


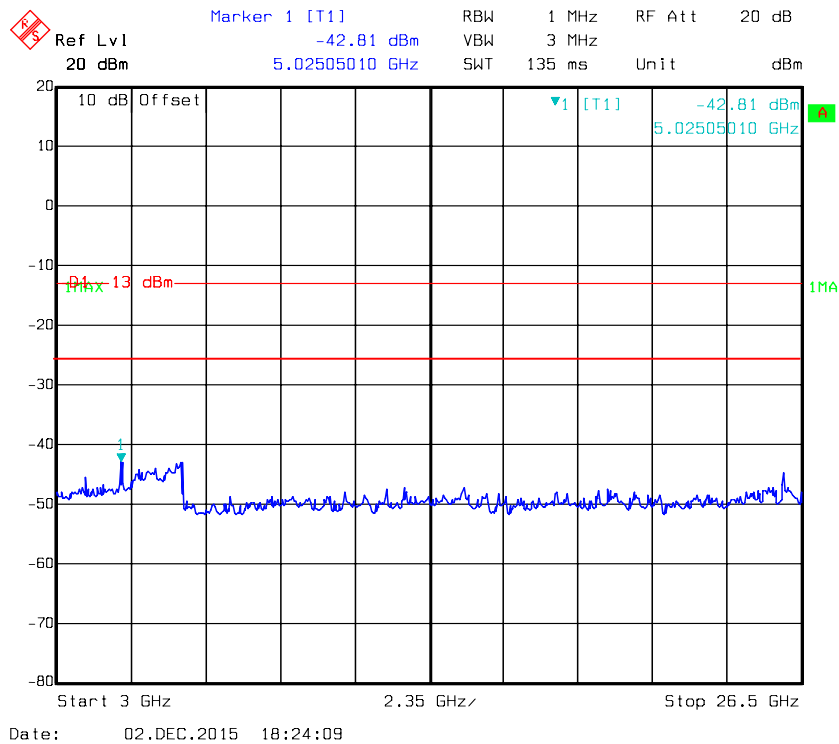
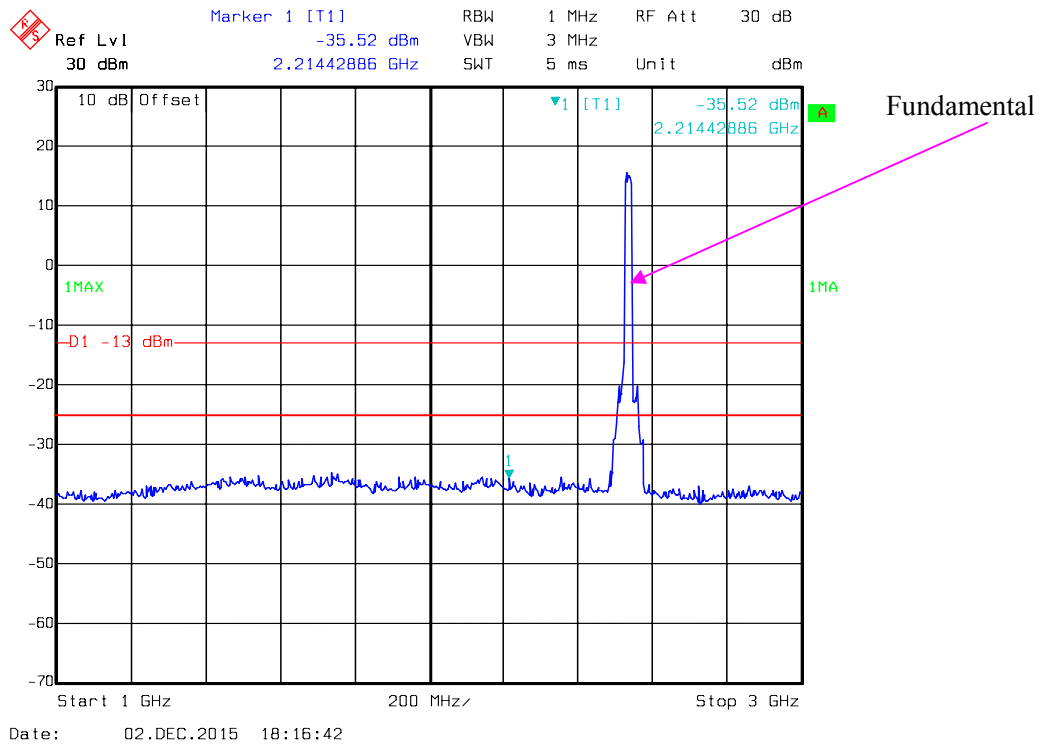
QPSK, Band 7-15M _ Middle Channel



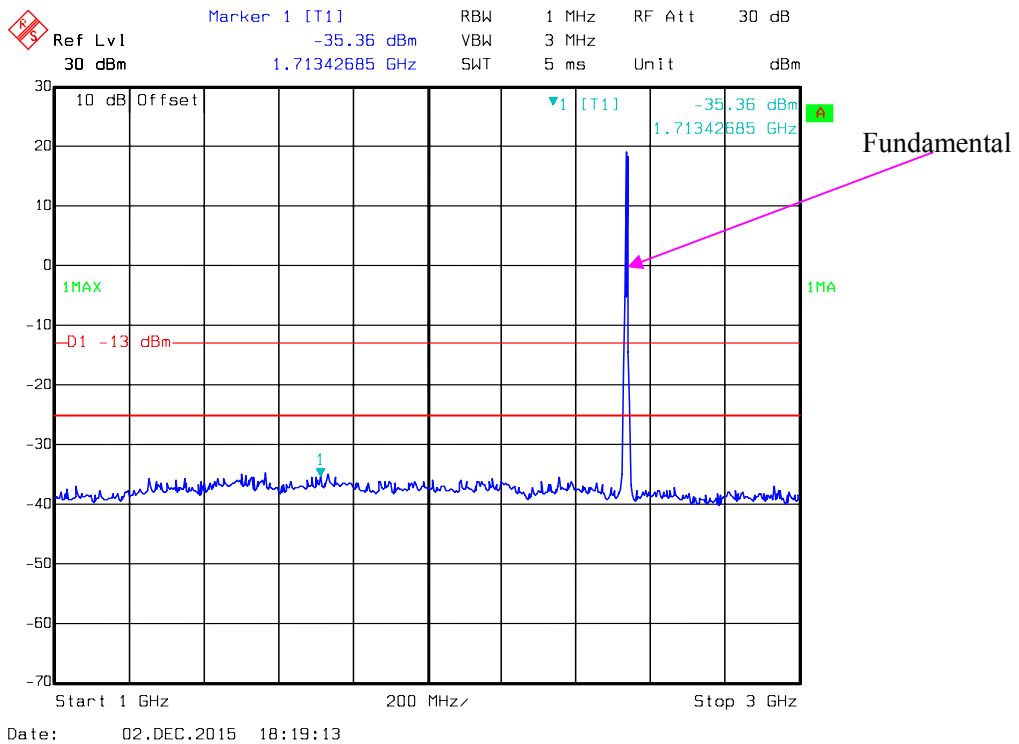
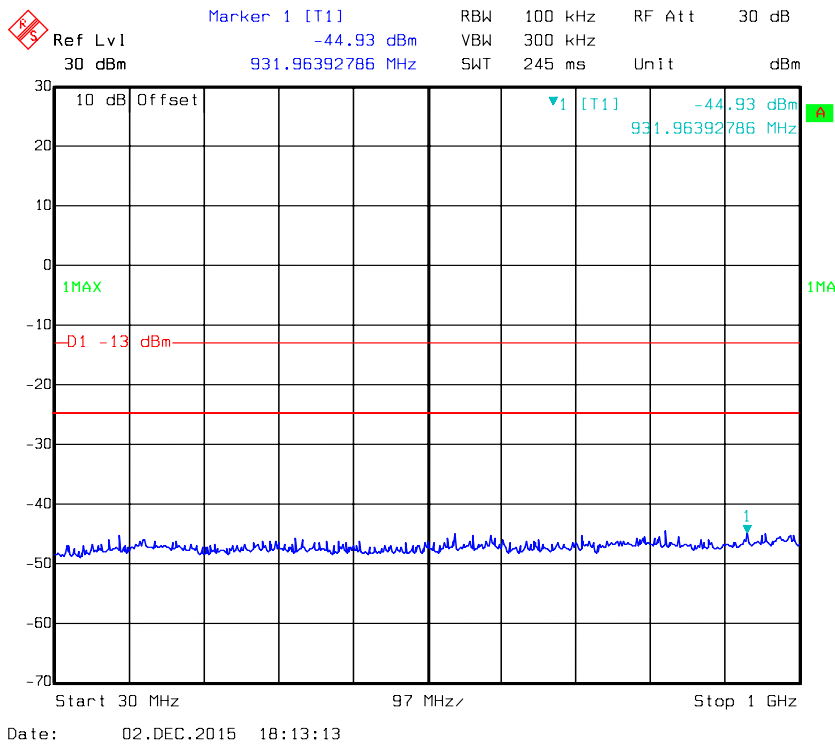


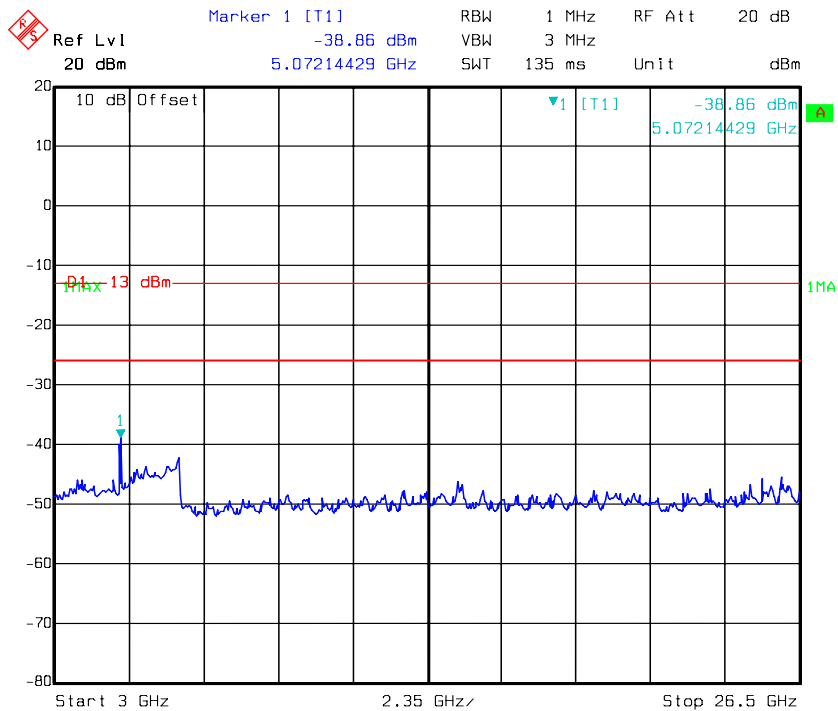
QPSK, Band 7-20M _ Middle Channel





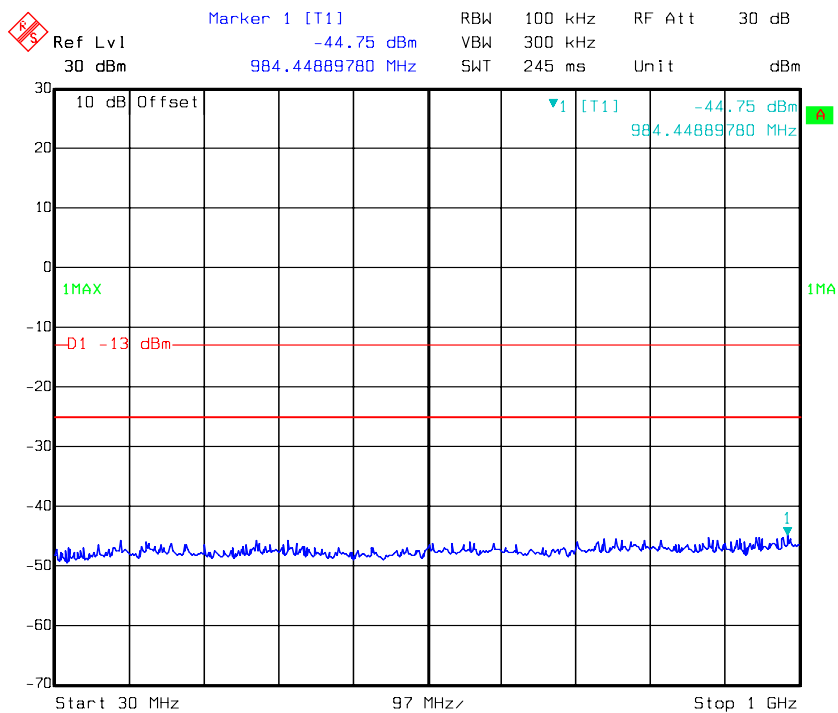
16-QAM, Band 7-5M_ Middle Channel



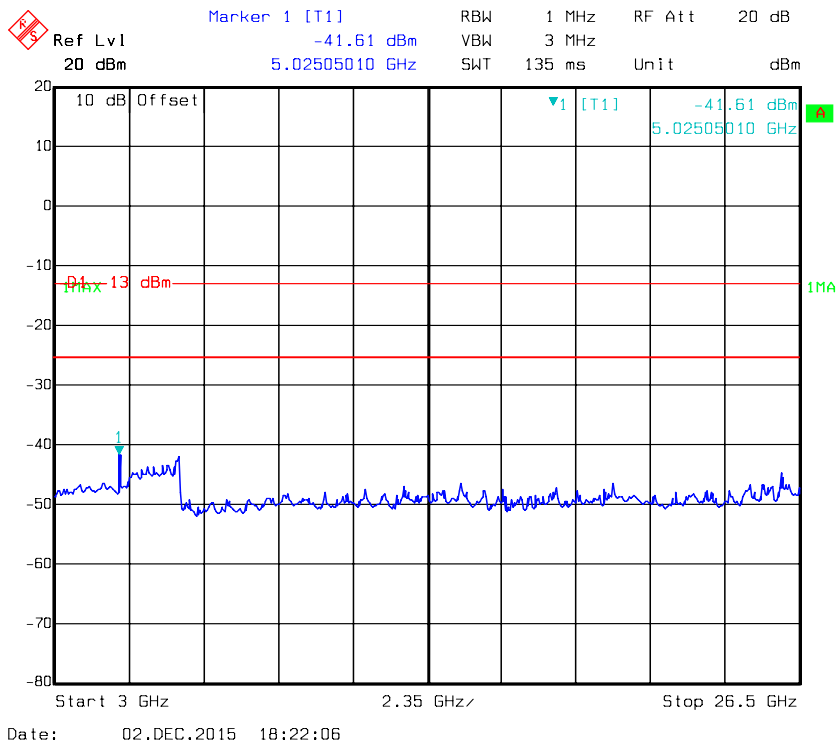
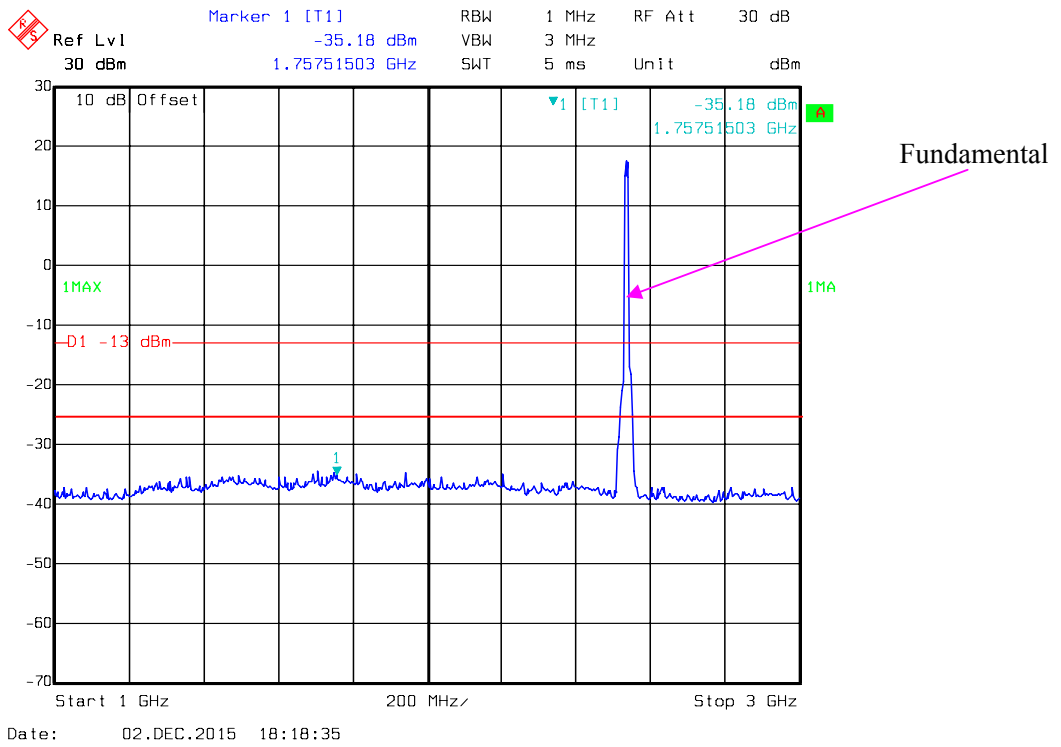


Date: 02.DEC.2015 18:21:16

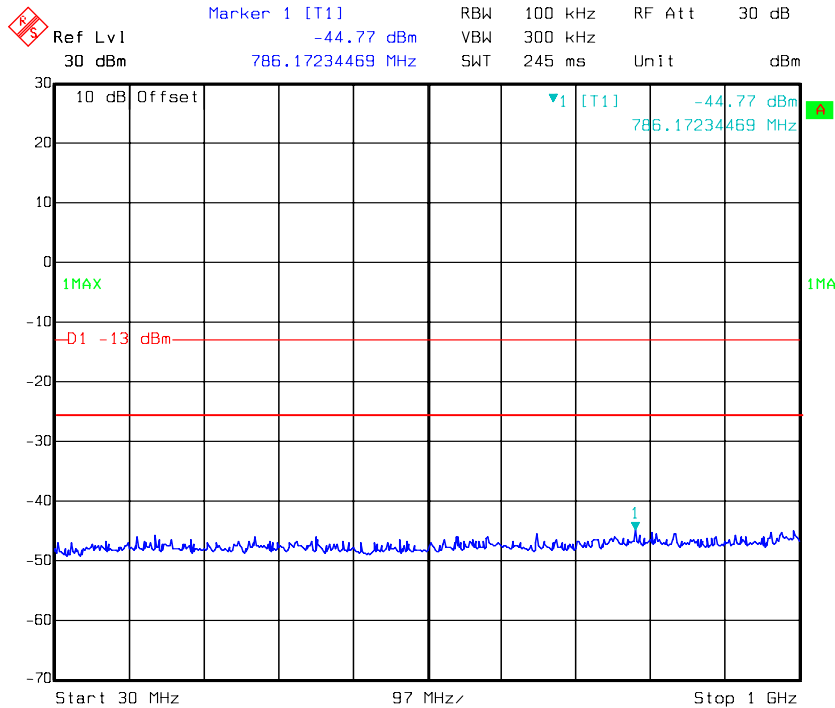
16-QAM, Band 7-10M_Middle Channel



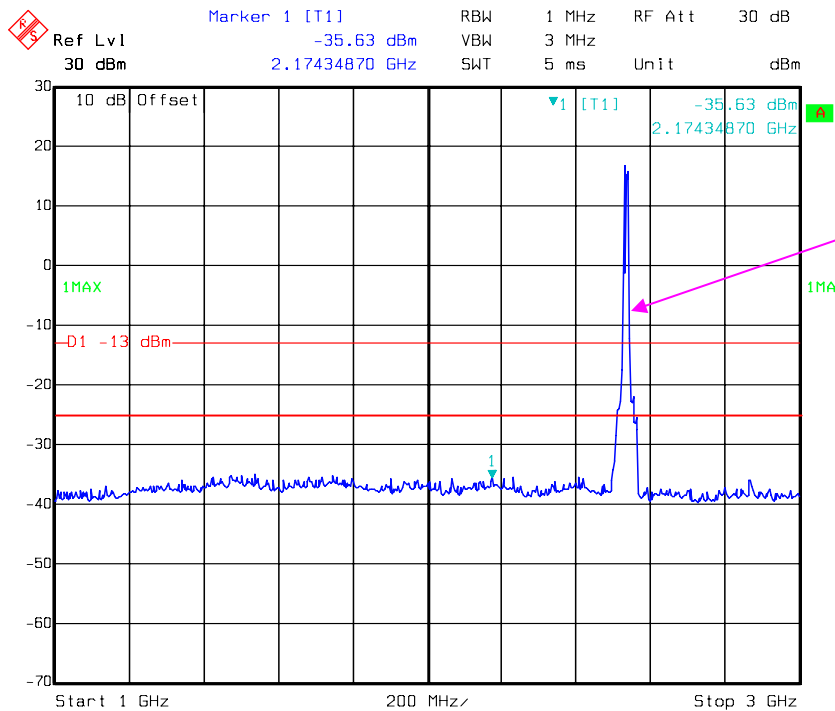
Date: 02.DEC.2015 18:13:39



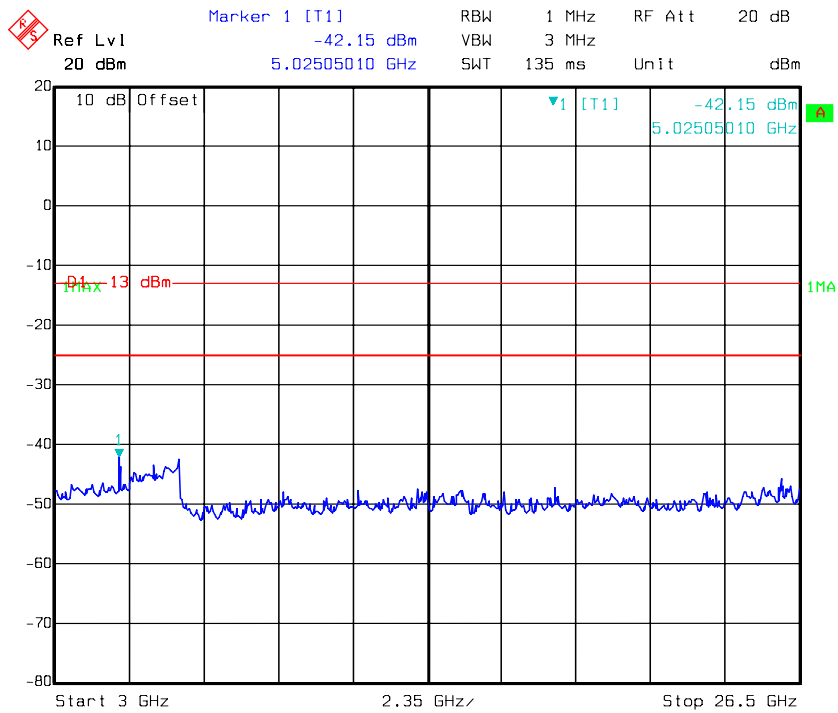
16-QAM, Band 7-15M _ Middle Channel



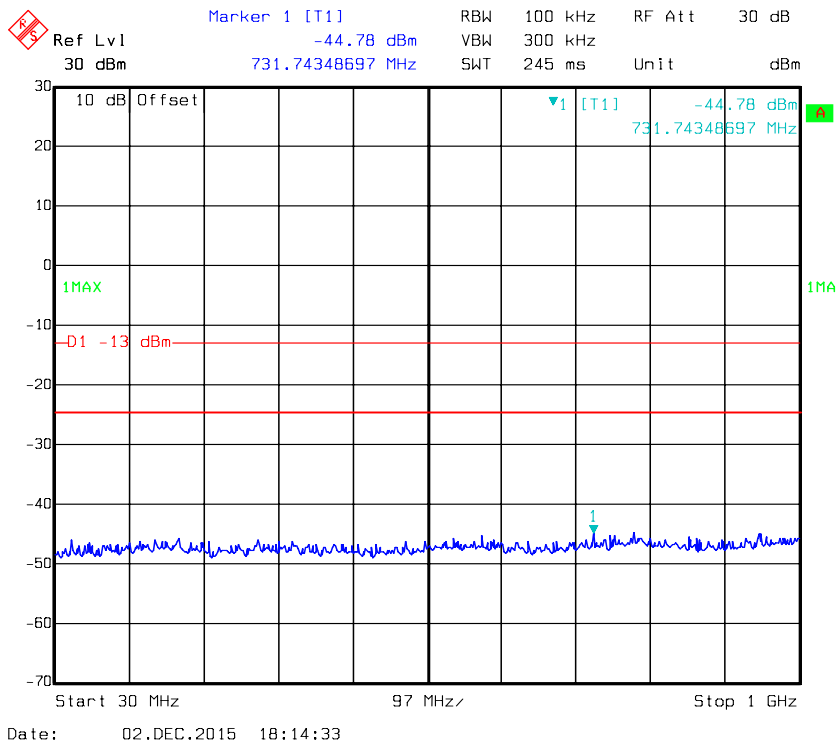
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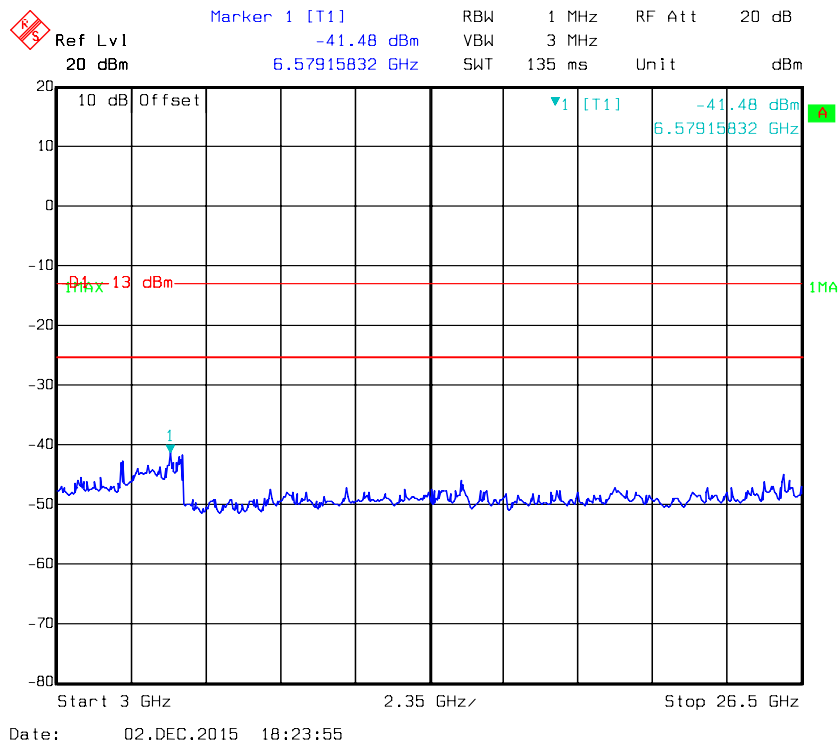
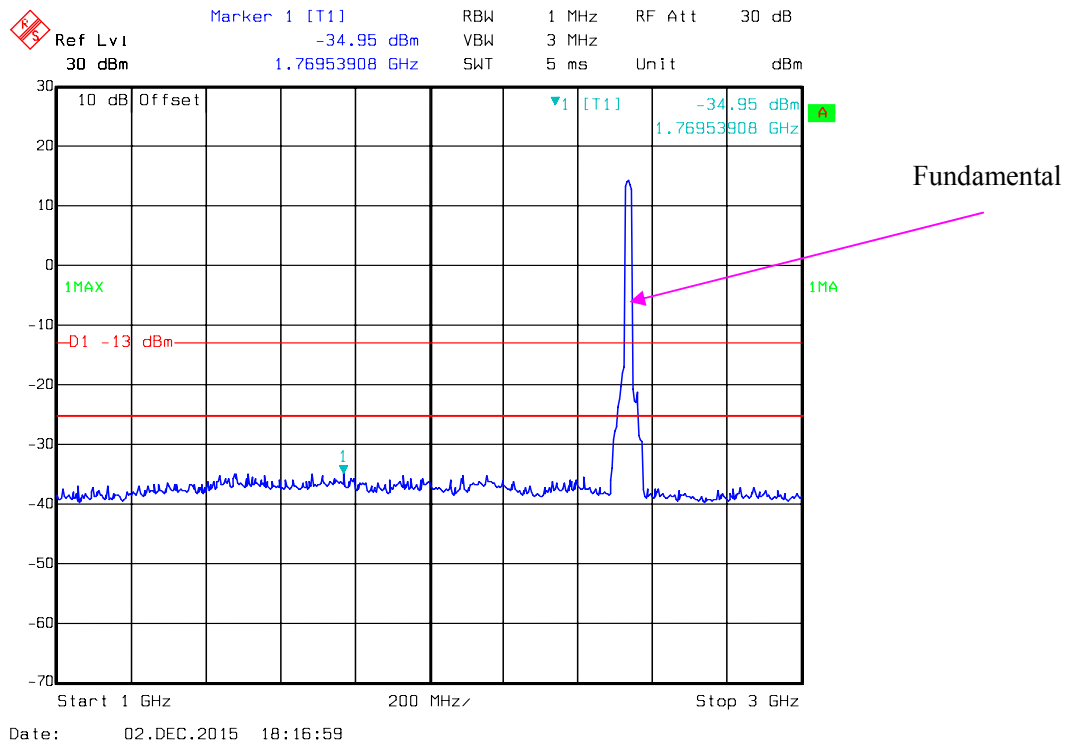


Date: 02.DEC.2015 18:17:48



16-QAM, Band 7-20M_Middle Channel

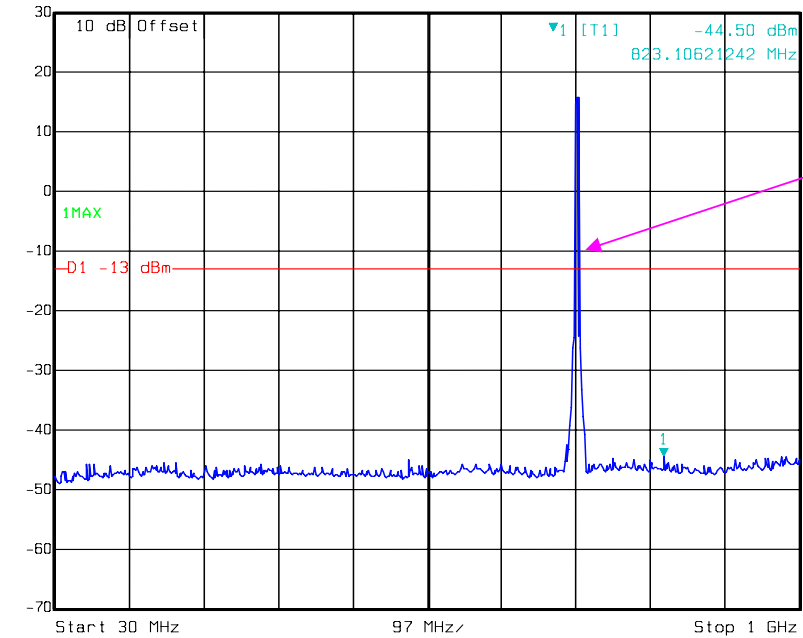




LTE Band 17:

QPSK, Band 17-5M _ Middle Channel

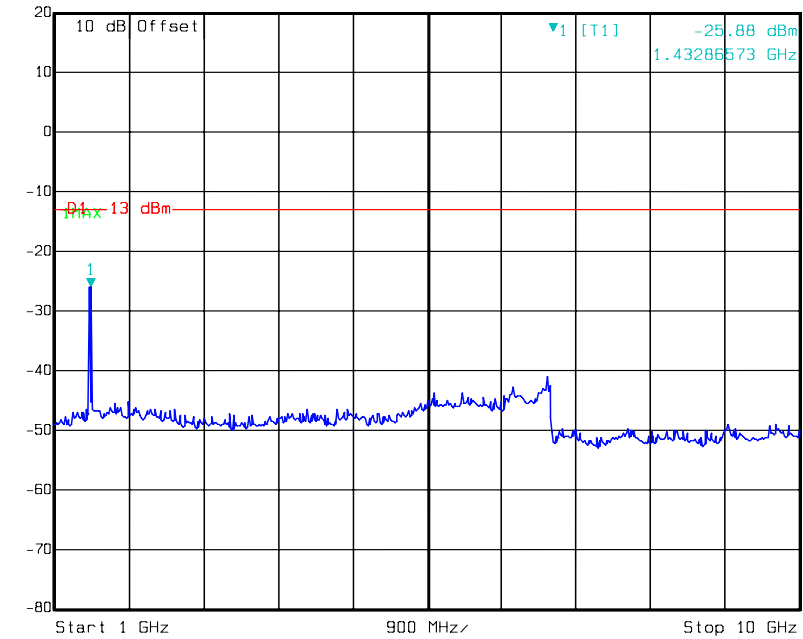
Marker 1 [T1] RBW 100 kHz RF Att 30 dB
Ref Lvl -44.50 dBm VBW 300 kHz
30 dBm 823.10621242 MHz SWT 245 ms Unit dBm



Fundamental

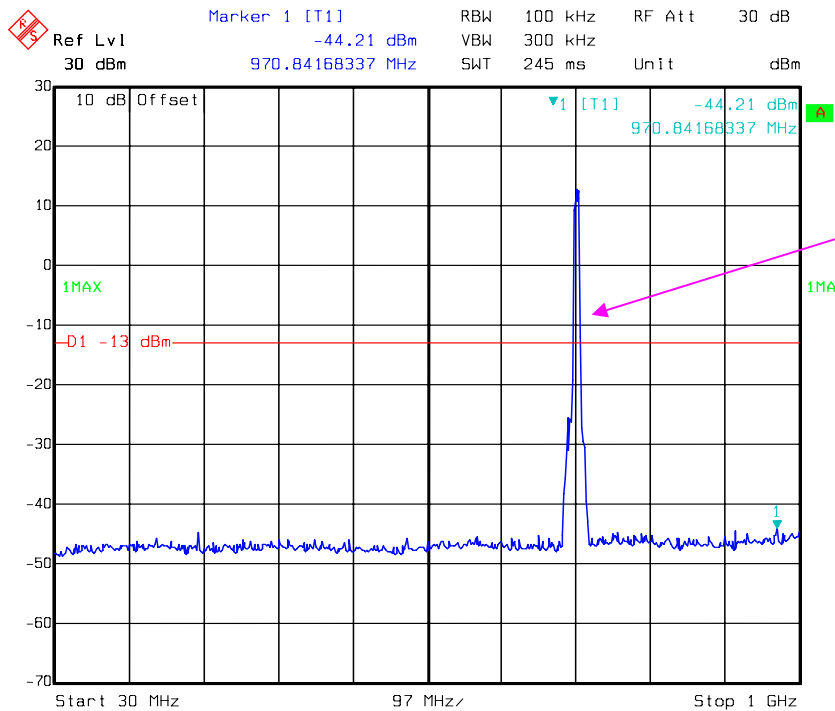
Date: 02.DEC.2015 18:30:32

Marker 1 [T1] RBW 1 MHz RF Att 20 dB
Ref Lvl -25.88 dBm VBW 3 MHz
20 dBm 1.43286573 GHz SWT 52 ms Unit dBm



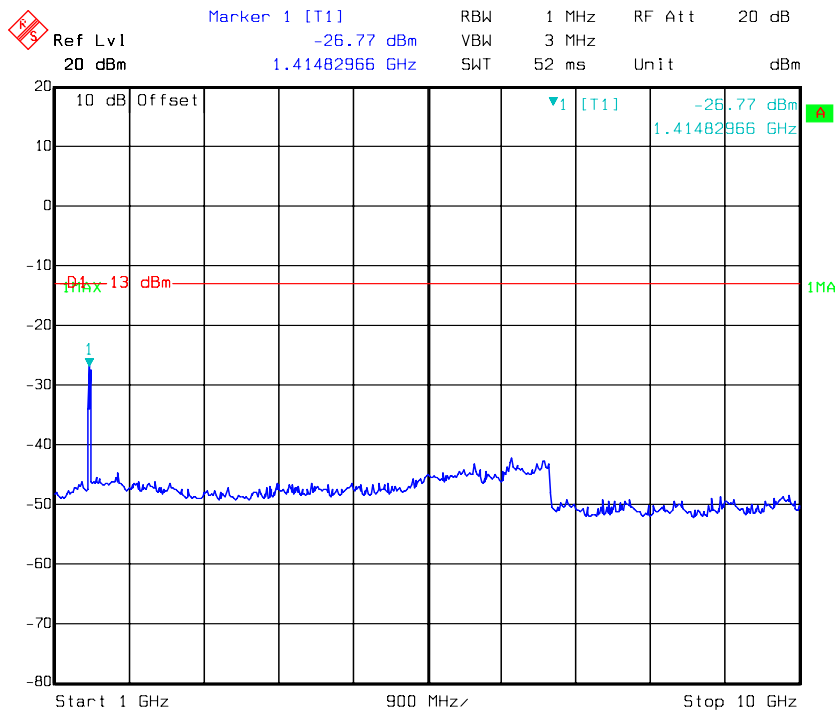
Date: 02.DEC.2015 18:28:29

QPSK, Band 17-10M_ Middle Channel



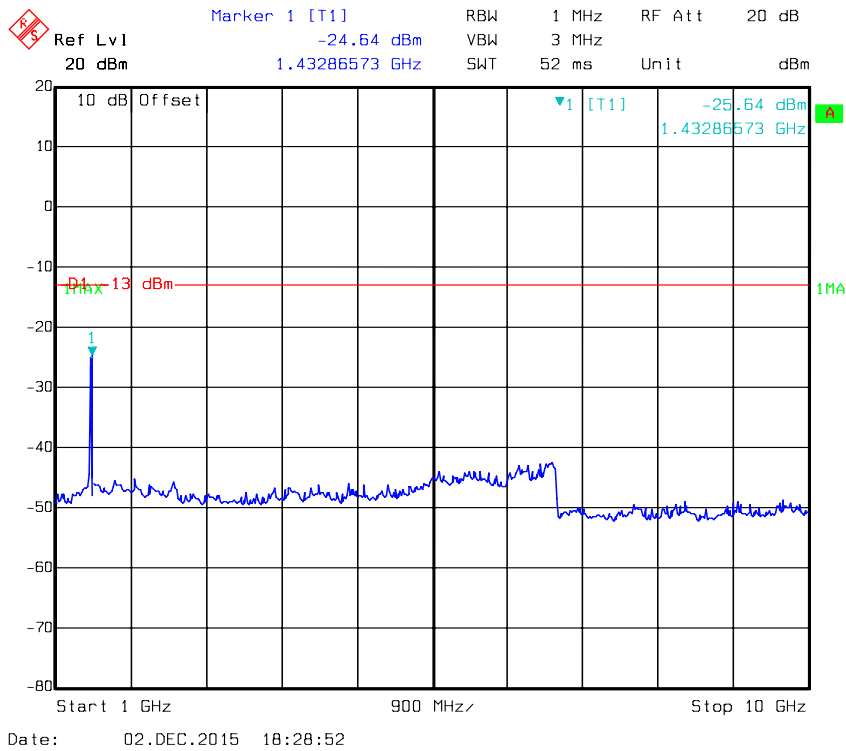
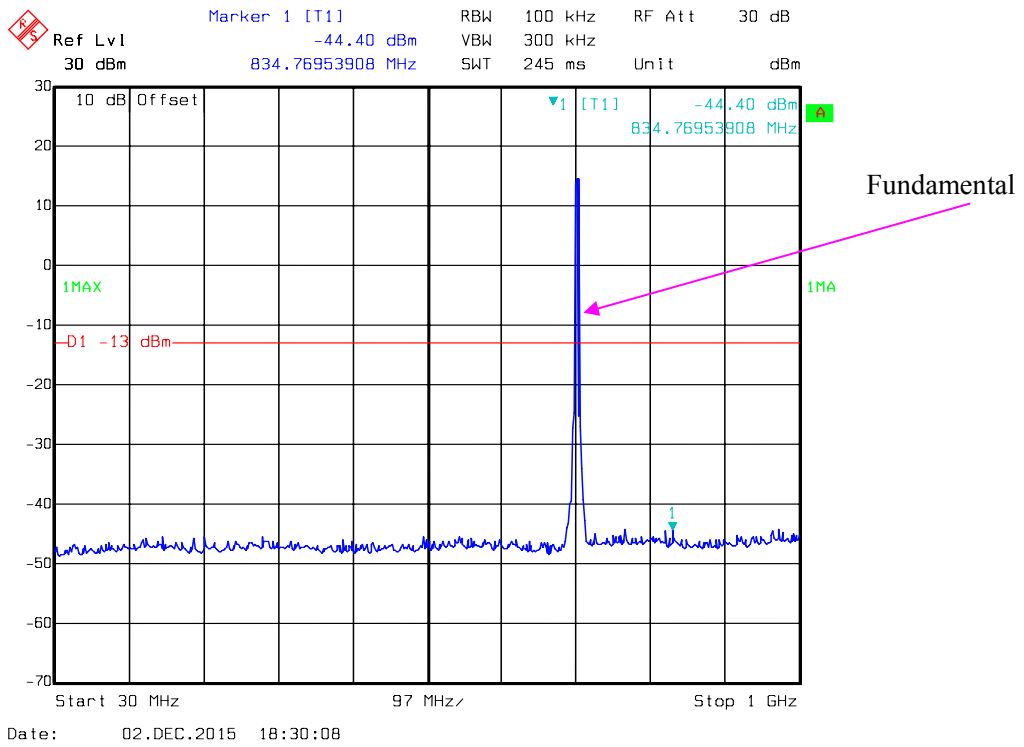
Date: 02.DEC.2015 18:31:16

Fundamental

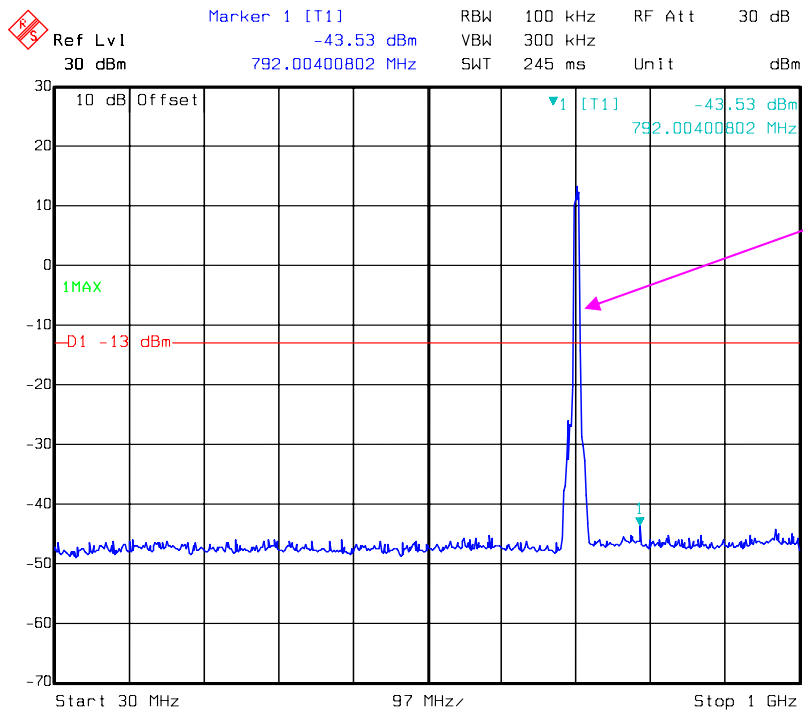


Date: 02.DEC.2015 18:27:10

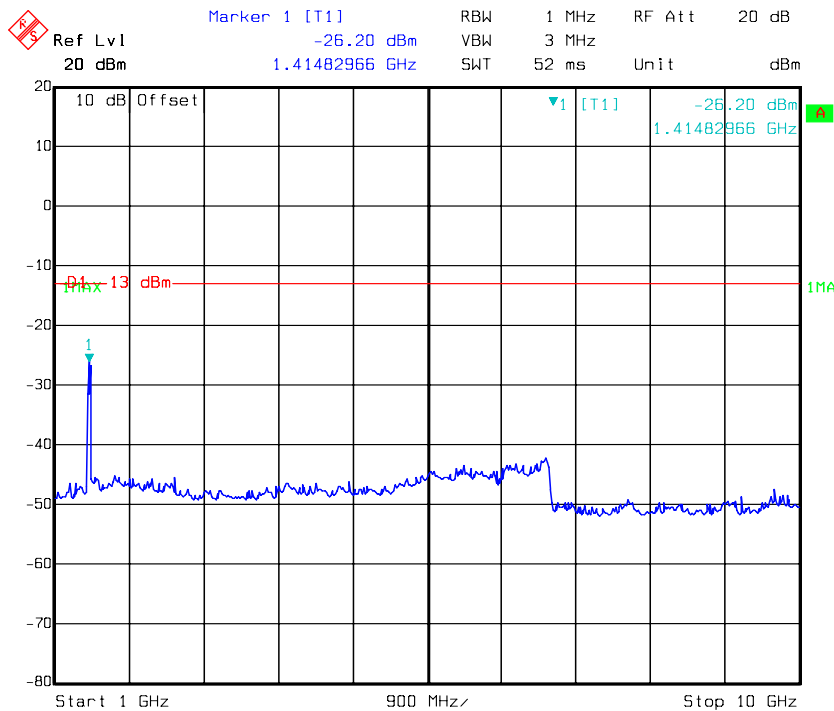
16-QAM, Band 17-5M _ Middle Channel



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



Date: 02.DEC.2015 18:30:54



Date: 02.DEC.2015 18:28:05

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

Applicable Standard

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

Test Procedure

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

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

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

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

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log₁₀ (power out in Watts)

Spurious attenuation limit in dB = 55 + 10 Log₁₀ (power out in Watts) for band 7

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Giga	Signal Generator	1026	320408	2015-11-23	2016-11-22
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2015-09-06	2018-09-06

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

Test Data**Environmental Conditions**

Temperature:	27.1°C
Relative Humidity:	52 %
ATM Pressure:	100.2 kPa

The testing was performed by Lion Xiao on 2015-11-27.

EUT Operation Mode: Transmitting

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

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:836.6 MHz								
1673.200	H	55.81	-45.3	10.6	1.5	-36.2	-13.0	23.2
1673.200	V	52.66	-48.7	10.6	1.5	-39.6	-13.0	26.6
2509.800	H	39.86	-58.2	13.1	2.8	-47.9	-13.0	34.9
2509.800	V	37.57	-59.5	13.1	2.8	-49.2	-13.0	36.2
216.100	H	35.41	-72.4	0.0	0.5	-72.9	-13.0	59.9
239.500	V	34.87	-70.8	0.0	0.5	-71.3	-13.0	58.3

WCDMA Band V

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:836.6 MHz								
1673.200	H	48.48	-52.6	10.6	1.5	-43.5	-13.0	30.5
1673.200	V	45.87	-55.5	10.6	1.5	-46.4	-13.0	33.4
199.700	H	35.23	-72.4	0.0	0.5	-72.9	-13.0	59.9
215.200	V	34.08	-71.3	0.0	0.5	-71.8	-13.0	58.8

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

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1880 MHz								
3760.000	H	42.76	-51.5	13.8	2.9	-40.6	-13.0	27.6
3760.000	V	40.62	-52.4	13.8	2.9	-41.5	-13.0	28.5
234.600	H	35.68	-72.3	0.0	0.5	-72.8	-13.0	59.8
269.200	V	34.03	-71.4	0.0	0.5	-71.9	-13.0	58.9

WCDMA Band II

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1880 MHz								
3760.000	H	38.04	-56.3	13.8	2.9	-45.4	-13.0	32.4
3760.000	V	36.46	-56.6	13.8	2.9	-45.7	-13.0	32.7
256.900	H	35.79	-72.3	0.0	0.5	-72.8	-13.0	59.8
228.500	V	34.52	-71	0.0	0.5	-71.5	-13.0	58.5

WCDMA Band IV

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1880 MHz								
3465.200	H	49.51	-47.4	13.9	1.9	-35.4	-13.0	22.4
3465.200	V	46.22	-49.9	13.9	1.9	-37.9	-13.0	24.9
211.300	H	35.89	-71.9	0.0	0.5	-72.4	-13.0	59.4
291.800	V	34.26	-70.8	0.0	0.5	-71.3	-13.0	58.3

Note:

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

LTE Band 2

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency:1880.00 MHz								
3760.000	H	43.15	-51.1	13.8	2.9	-40.2	-13.0	27.2
3760.000	V	41.24	-51.8	13.8	2.9	-40.9	-13.0	27.9
5640.000	H	36.85	-54.8	14.0	2.1	-42.9	-13.0	29.9
5640.000	V	36.07	-55.6	14.0	2.1	-43.7	-13.0	30.7
213.700	H	35.49	-72.3	0.0	0.5	-72.8	-13.0	59.8
198.200	V	34.64	-70.8	0.0	0.5	-71.3	-13.0	58.3
16- QAM, Frequency:1880.00 MHz								
3760.000	H	42.56	-51.7	13.8	2.9	-40.8	-13.0	27.8
3760.000	V	40.81	-52.3	13.8	2.9	-41.4	-13.0	28.4
5640.000	H	36.43	-55.3	14.0	2.1	-43.4	-13.0	30.4
5640.000	V	35.85	-55.8	14.0	2.1	-43.9	-13.0	30.9
213.700	H	35.23	-72.6	0.0	0.5	-73.1	-13.0	60.1
198.200	V	34.40	-71	0.0	0.5	-71.5	-13.0	58.5

LTE Band 4

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency:1732.5 MHz								
3465.000	H	42.86	-54.1	13.9	1.9	-42.1	-13.0	29.1
3465.000	V	40.03	-56.1	13.9	1.9	-44.1	-13.0	31.1
5197.500	H	38.57	-52.4	14.0	2.3	-40.7	-13.0	27.7
5197.500	V	35.44	-57.1	14.0	2.3	-45.4	-13.0	32.4
179.500	H	35.07	-73.7	0.0	0.4	-74.1	-13.0	61.1
201.900	V	34.53	-70.7	0.0	0.5	-71.2	-13.0	58.2
16- QAM, Frequency:1732.5 MHz								
3465.000	H	41.48	-55.5	13.9	1.9	-43.5	-13.0	30.5
3465.000	V	38.73	-57.4	13.9	1.9	-45.4	-13.0	32.4
5197.500	H	37.40	-53.6	14.0	2.3	-41.9	-13.0	28.9
5197.500	V	35.03	-57.5	14.0	2.3	-45.8	-13.0	32.8
179.500	H	35.26	-73.5	0.0	0.4	-73.9	-13.0	60.9
201.900	V	34.72	-70.6	0.0	0.5	-71.1	-13.0	58.1

LTE Band 7

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2535.000 MHz								
1420.000	H	40.11	-60.8	9.1	1.3	-53.0	-25.0	28.0
1420.000	V	38.65	-62	9.1	1.3	-54.2	-25.0	29.2
2130.000	H	37.87	-58.1	11.2	1.4	-48.3	-25.0	23.3
2130.000	V	36.52	-58.3	11.2	1.4	-48.5	-25.0	23.5
209.400	H	35.77	-72	0.0	0.5	-72.5	-25.0	47.5
261.100	V	34.50	-71.1	0.0	0.5	-71.6	-25.0	46.6
16- QAM, Frequency: 2535.000 MHz								
5070.000	H	42.51	-48.8	13.9	2.4	-37.3	-25.0	12.3
5070.000	V	40.23	-51.9	13.9	2.4	-40.4	-25.0	15.4
7605.000	H	34.13	-53.4	13.2	3.1	-43.3	-25.0	18.3
7605.000	V	33.24	-54.3	13.2	3.1	-44.2	-25.0	19.2
238.200	H	35.19	-72.9	0.0	0.5	-73.4	-25.0	48.4
301.700	V	34.32	-70.4	0.0	0.5	-70.9	-25.0	45.9

LTE Band 17

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency:710.000 MHz								
1420.000	H	40.11	-60.8	9.1	1.3	-53.0	-13.0	40.0
1420.000	V	38.65	-62	9.1	1.3	-54.2	-13.0	41.2
2130.000	H	37.87	-58.1	11.2	1.4	-48.3	-13.0	35.3
2130.000	V	36.52	-58.3	11.2	1.4	-48.5	-13.0	35.5
209.400	H	35.77	-72	0.0	0.5	-72.5	-13.0	59.5
261.100	V	34.50	-71.1	0.0	0.5	-71.6	-13.0	58.6
16- QAM, Frequency: 710.000 MHz								
1420.000	H	39.69	-61.2	9.1	1.3	-53.4	-13.0	40.4
1420.000	V	38.47	-62.2	9.1	1.3	-54.4	-13.0	41.4
2130.000	H	37.64	-58.3	11.2	1.4	-48.5	-13.0	35.5
2130.000	V	36.45	-58.3	11.2	1.4	-48.5	-13.0	35.5
209.400	H	35.20	-72.5	0.0	0.5	-73.0	-13.0	60.0
261.100	V	34.46	-71.1	0.0	0.5	-71.6	-13.0	58.6

Note:

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

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

Applicable Standard

According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §27.53 (g), For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

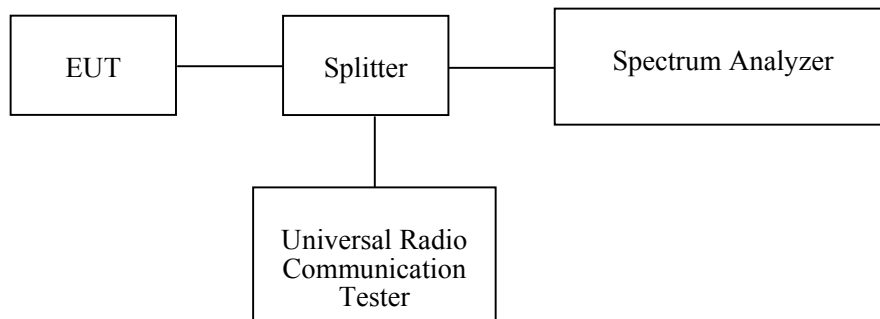
According to §27.53 (h), AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission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

According to §27.53 (m), (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less 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.

Test Procedure

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

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



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
R&S	Universal Radio Communication Tester	CMU200	109038	2015-05-09	2016-05-09
R&S	Wideband Radio Communication Tester	CMW500	106891	2014-12-19	2015-12-19

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

Test Data**Environmental Conditions**

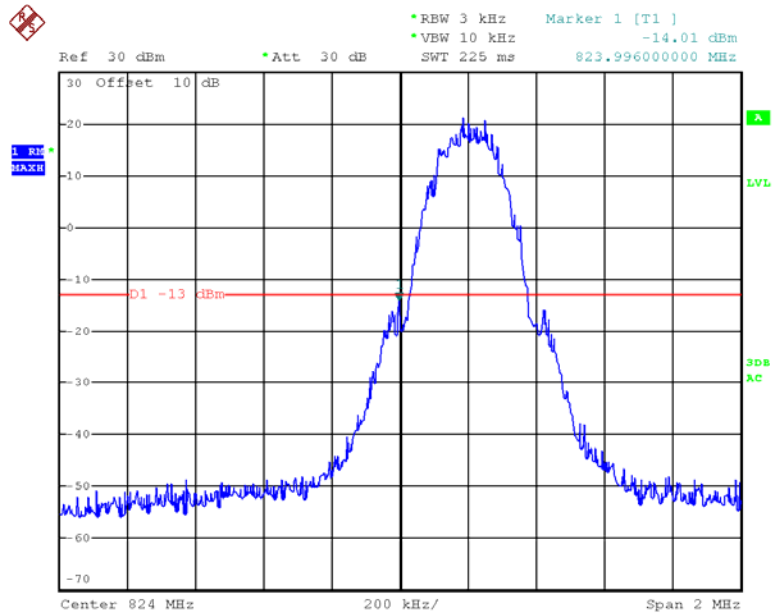
Temperature:	26.8~27.2 °C
Relative Humidity:	51~54 %
ATM Pressure:	100.2~100.6 kPa

The testing was performed by Lion Xiao from 2015-11-30 to 2015-12-03.

Test Mode: Transmitting

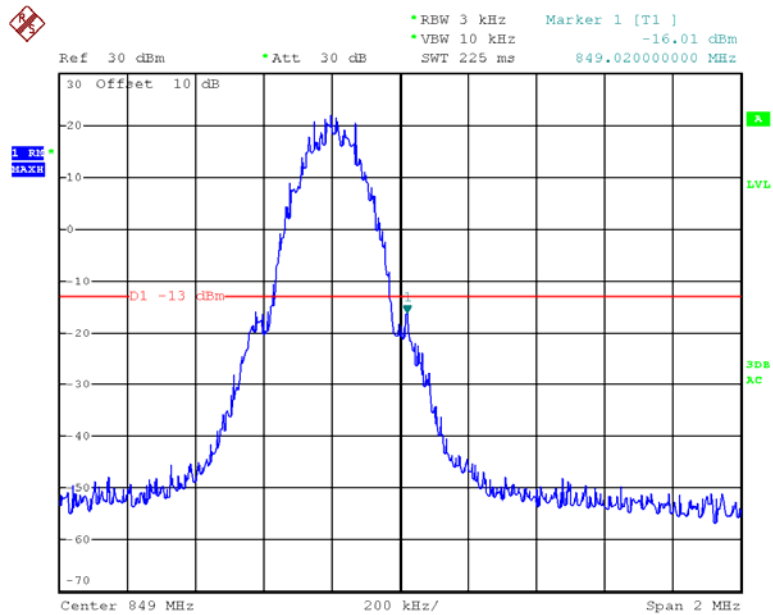
Test Result: Compliance. Please refer to the following plots.

GSM 850, Left Band Edge



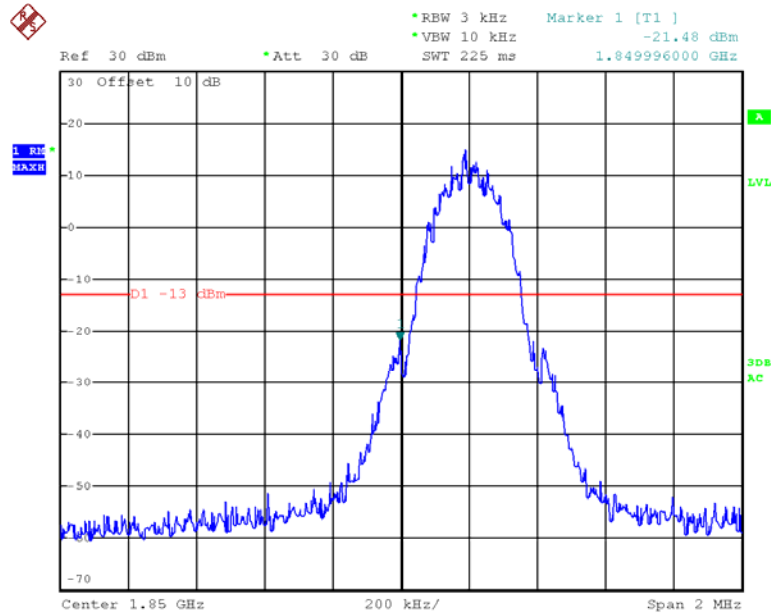
Date: 27.NOV.2015 18:44:46

GSM 850, Right Band Edge



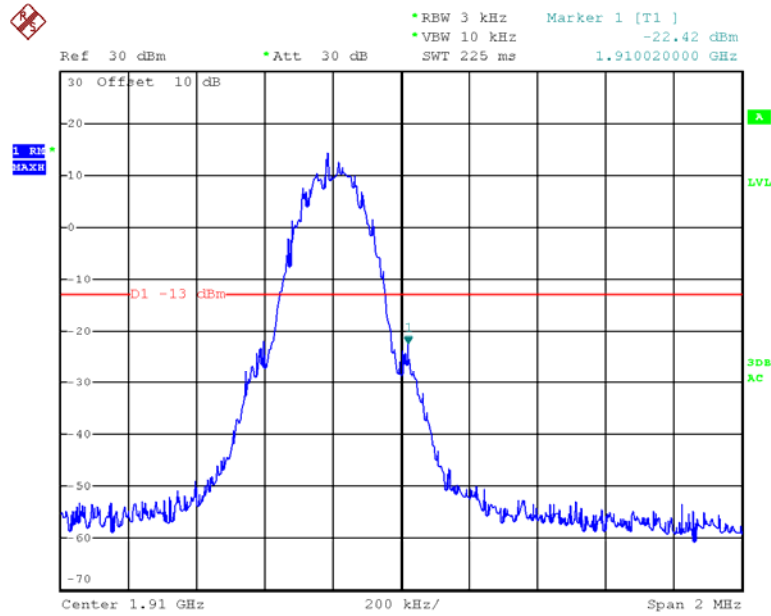
Date: 27.NOV.2015 18:43:56

GSM 1900, Left Band Edge



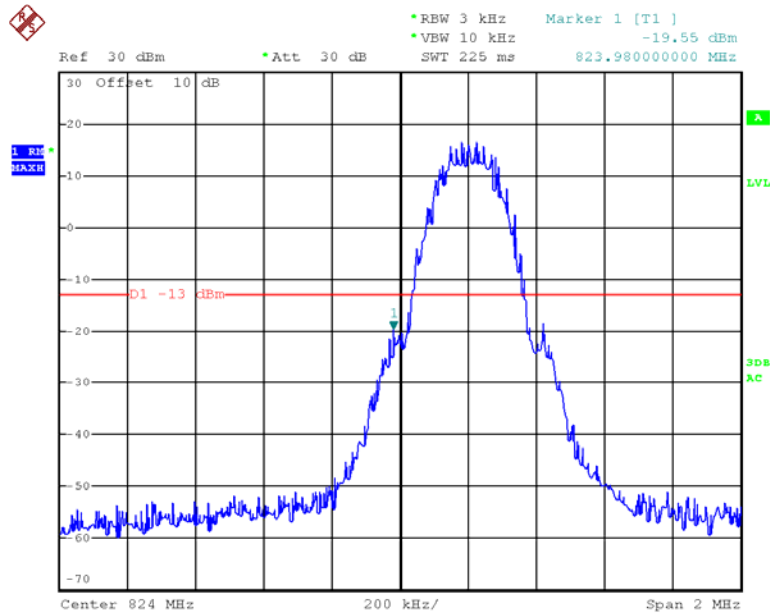
Date: 27.NOV.2015 18:52:58

GSM 1900, Right Band Edge



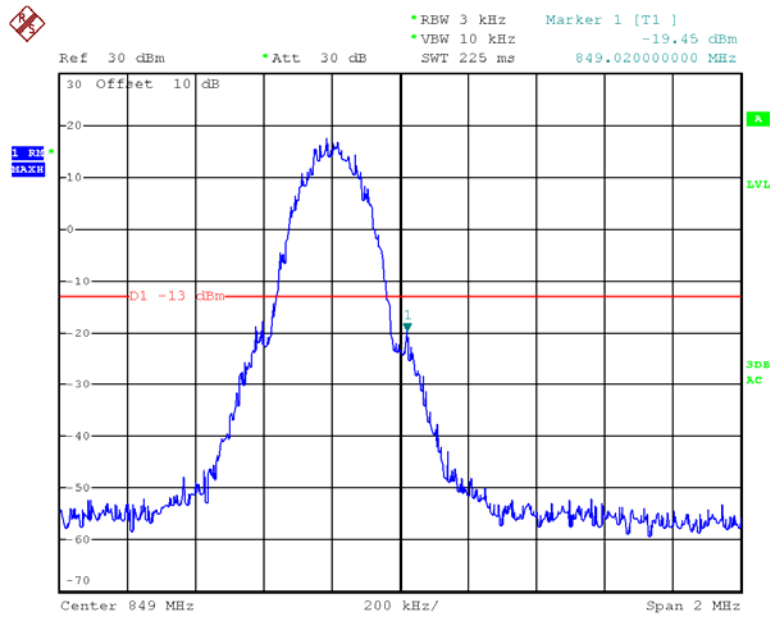
Date: 27.NOV.2015 18:52:23

EDGE 850, Left Band Edge



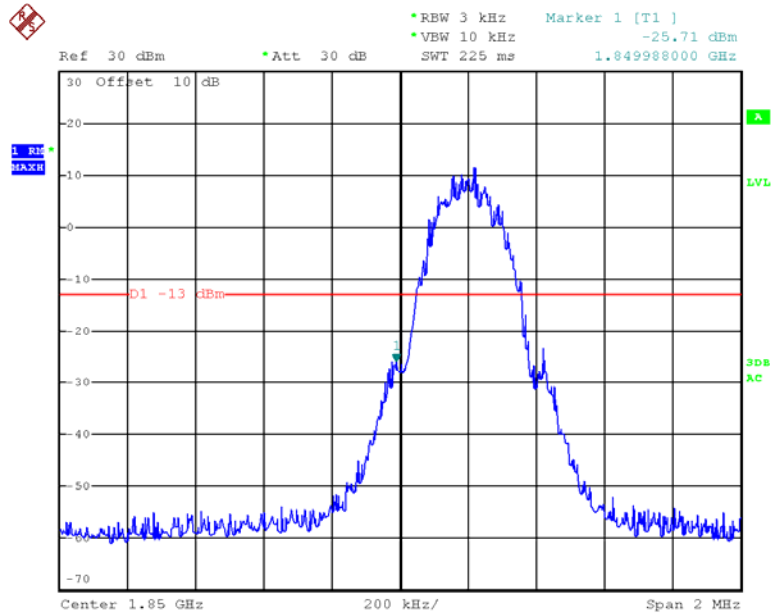
Date: 27.NOV.2015 18:50:32

EDGE 850, Right Band Edge



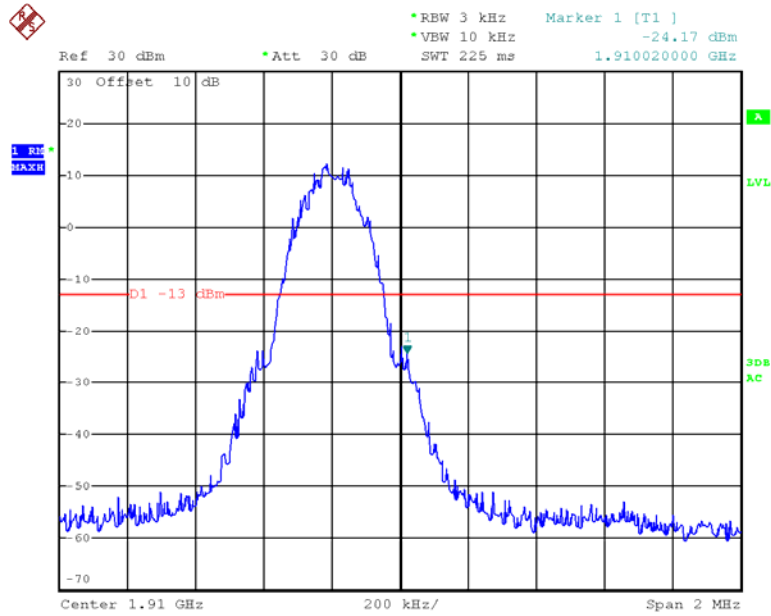
Date: 27.NOV.2015 18:51:11

EDGE 1900, Left Band Edge



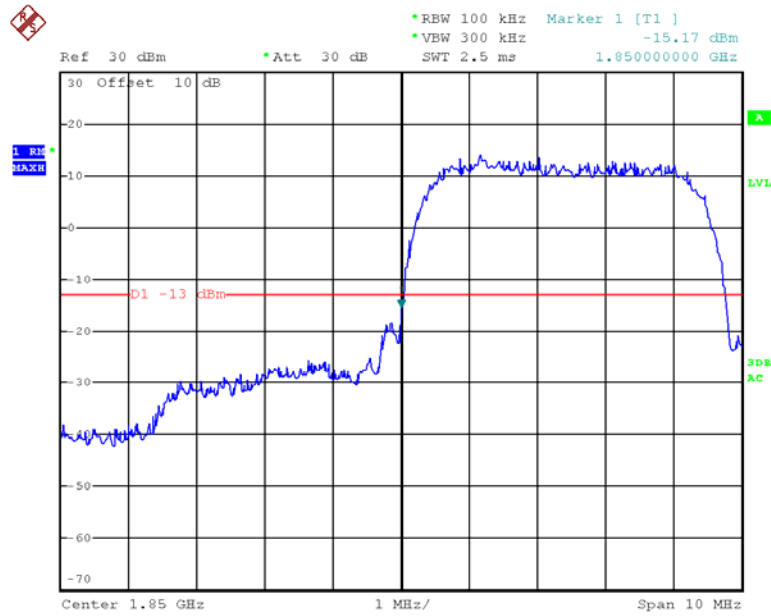
Date: 27.NOV.2015 18:40:19

EDGE 1900, Right Band Edge



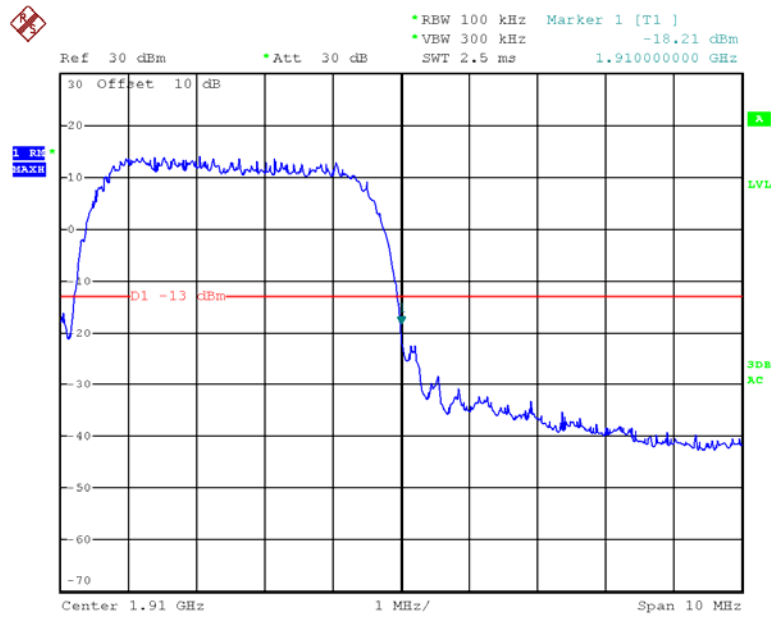
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REL99 Band II, Left Band Edge



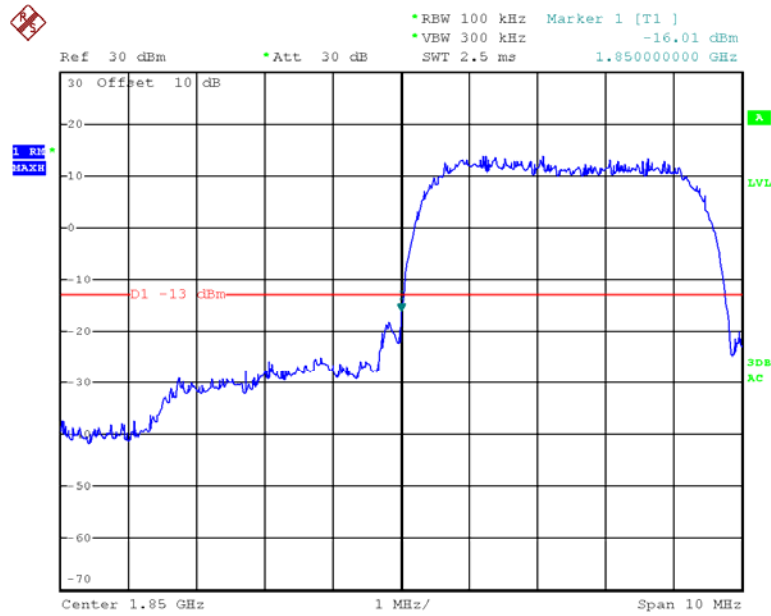
Date: 26.NOV.2015 21:43:47

REL99 Band II, Right Band Edge



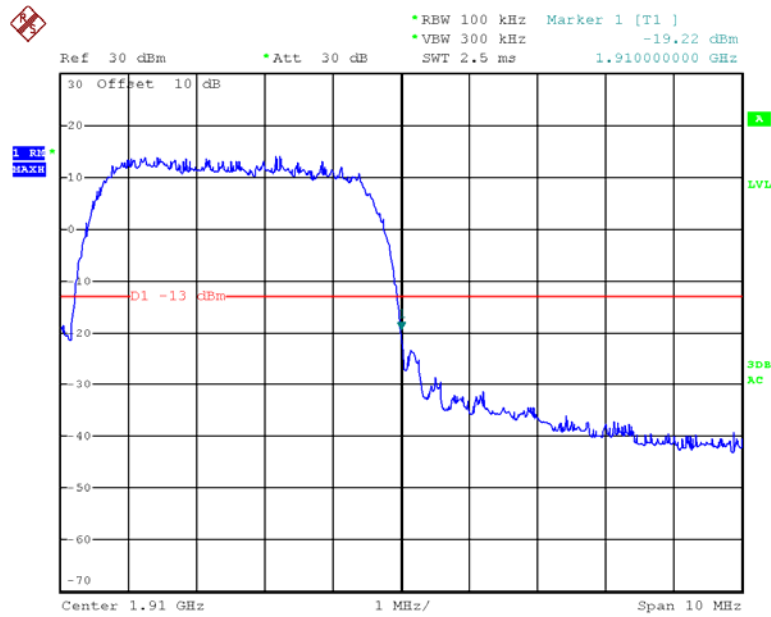
Date: 26.NOV.2015 21:37:44

HSDPA Band II, Left Band Edge



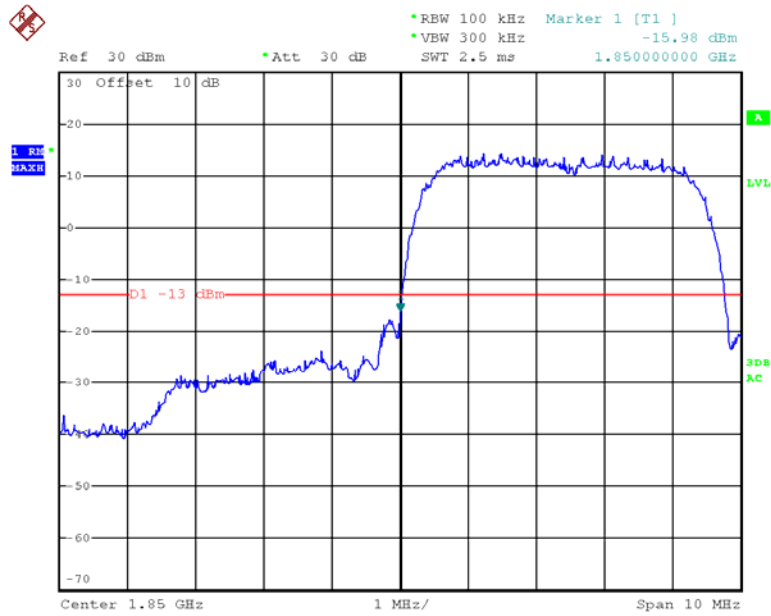
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HSDPA Band II, Right Band Edge



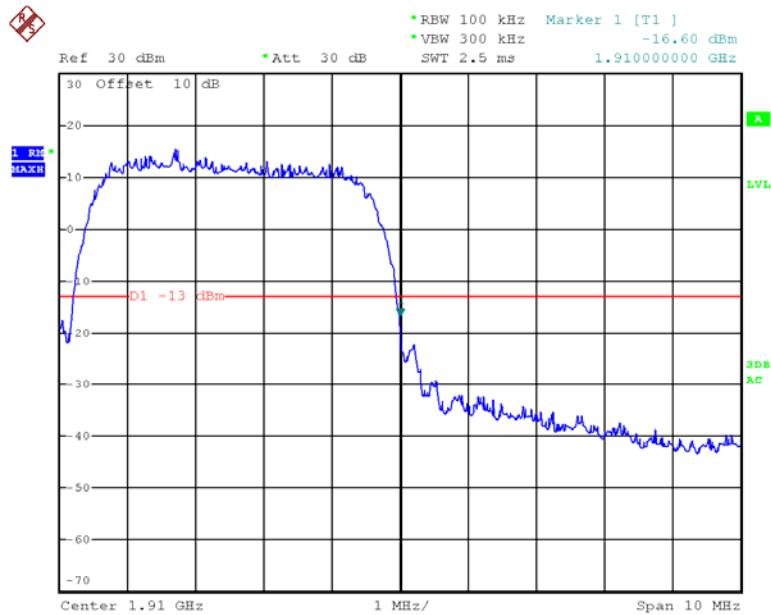
Date: 26.NOV.2015 21:39:58

HSUPA Band II, Left Band Edge



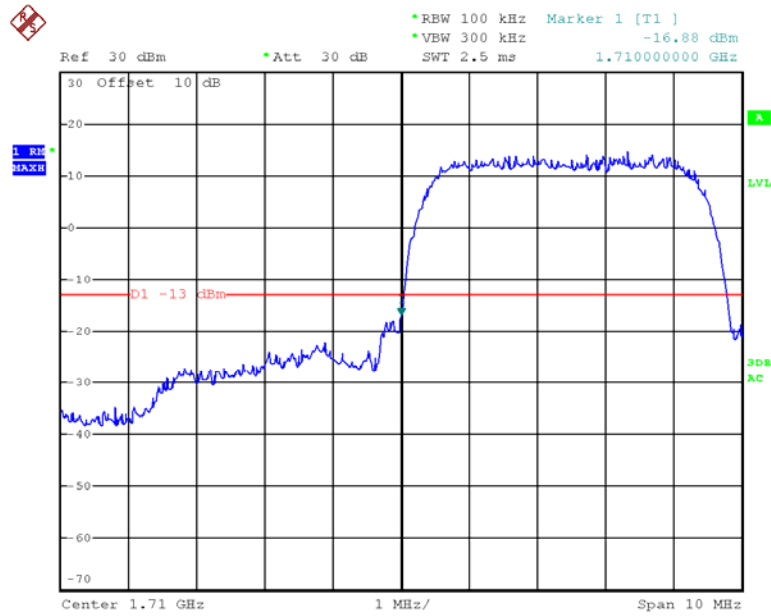
Date: 26.NOV.2015 21:49:22

HSUPA Band II, Right Band Edge



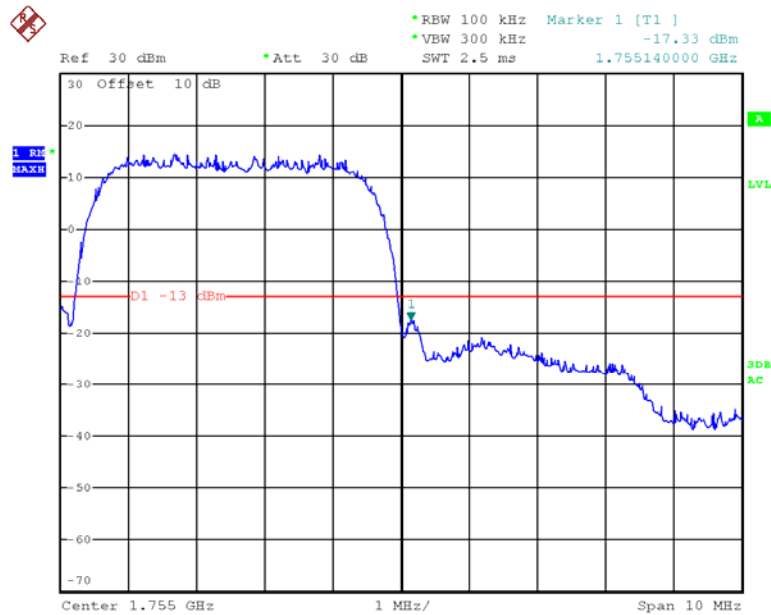
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REL99 Band IV, Left Band Edge



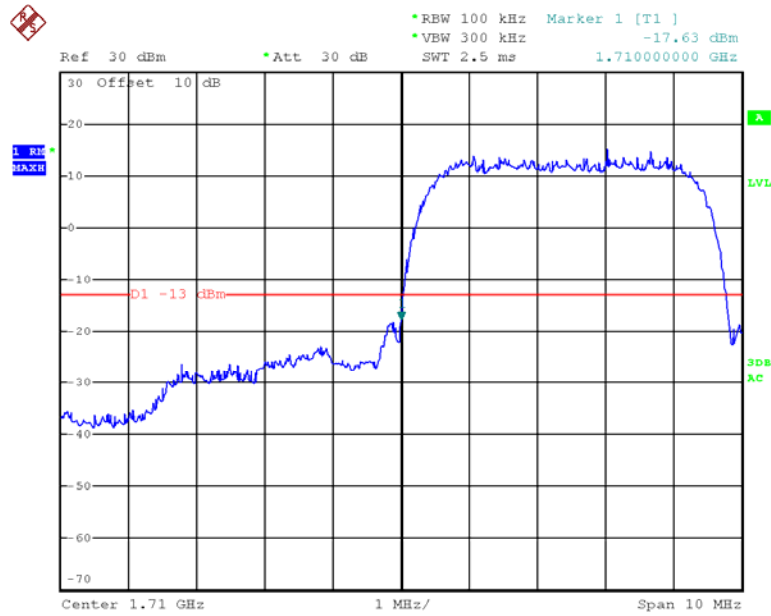
Date: 26.NOV.2015 21:58:44

REL99 Band IV, Right Band Edge



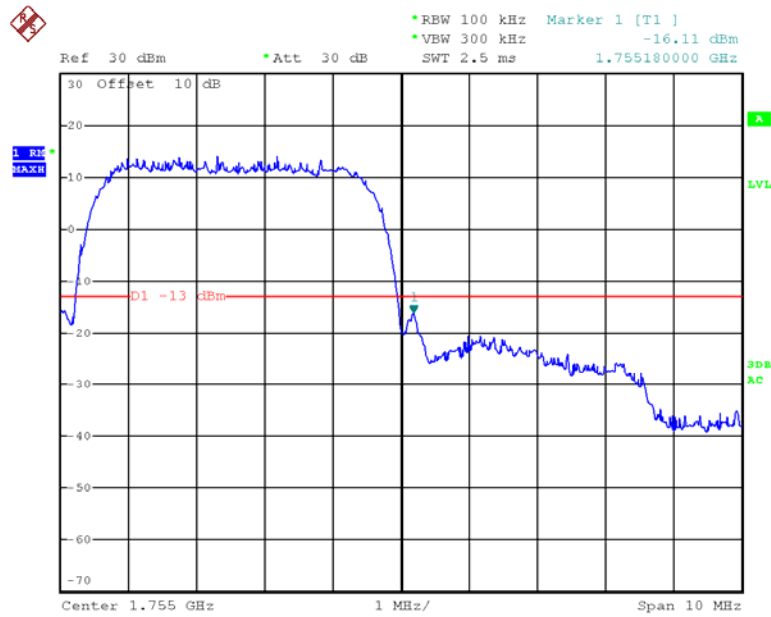
Date: 26.NOV.2015 21:53:34

HSDPA Band IV, Left Band Edge



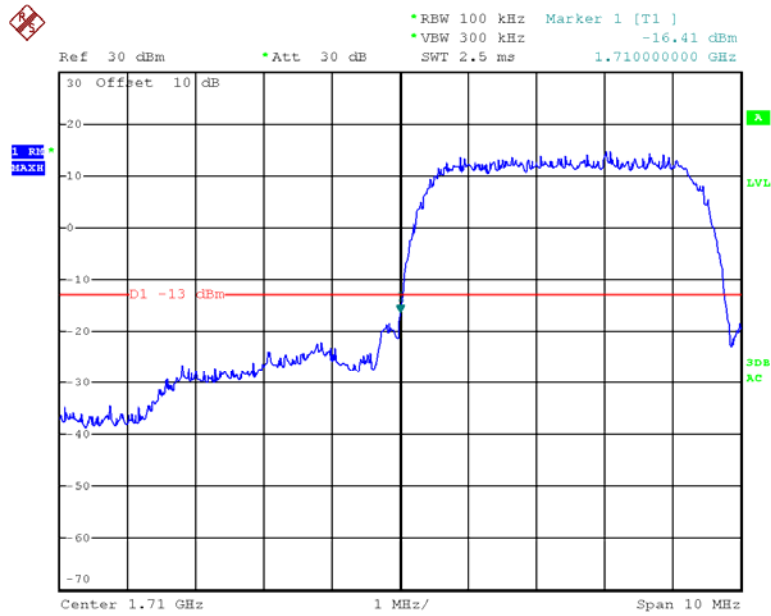
Date: 26.NOV.2015 21:54:08

HSDPA Band IV, Right Band Edge



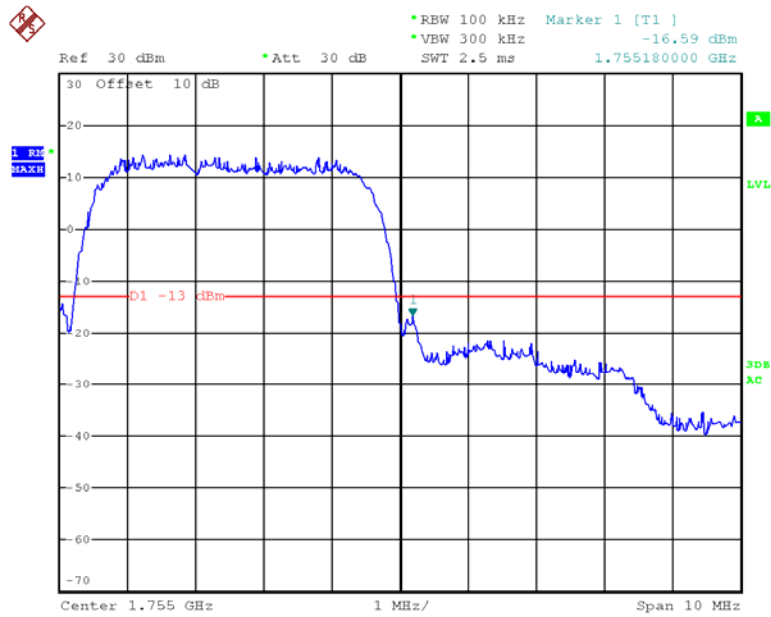
Date: 26.NOV.2015 21:49:53

HSUPA Band IV, Left Band Edge



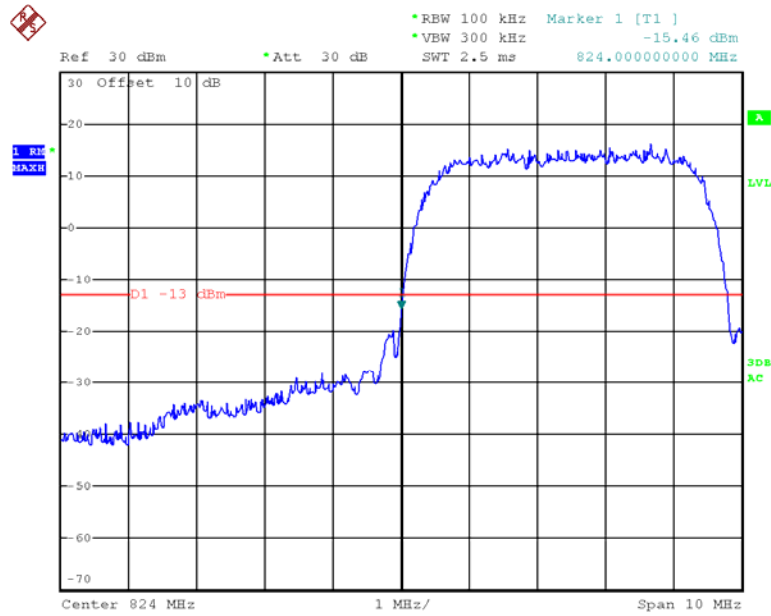
Date: 26.NOV.2015 21:56:21

HSUPA Band IV, Right Band Edge



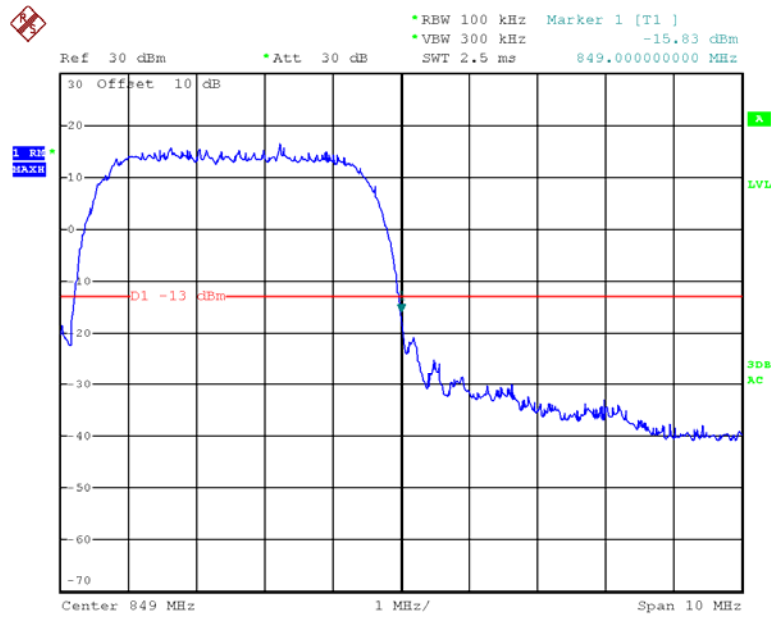
Date: 26.NOV.2015 21:51:08

REL99 Band V, Left Band Edge



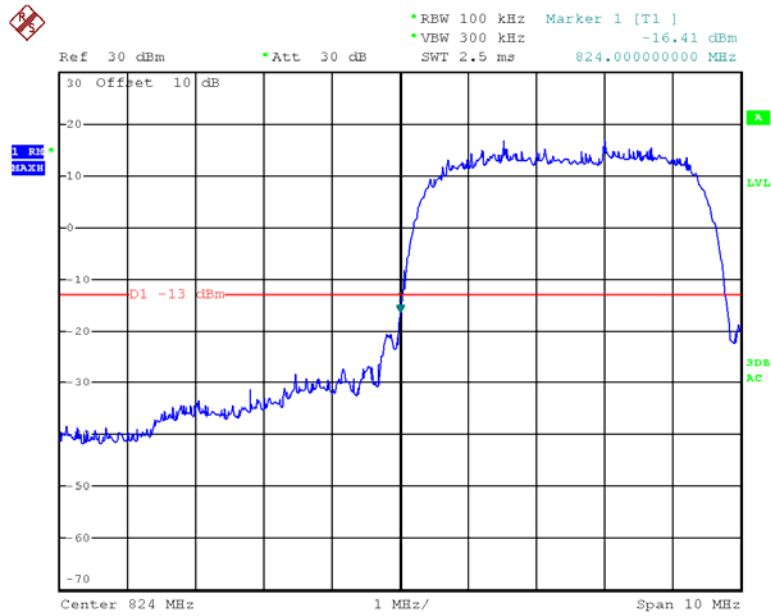
Date: 26.NOV.2015 22:04:26

REL99 Band V Right Band Edge



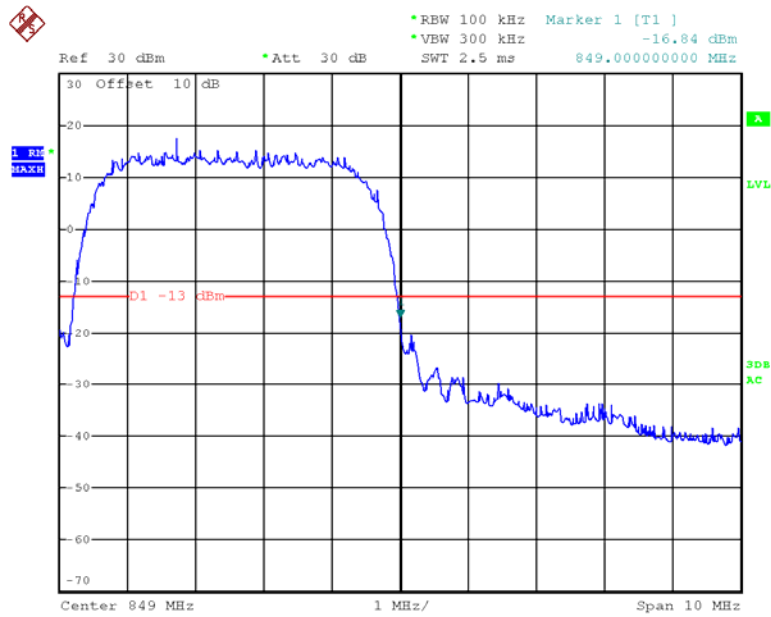
Date: 26.NOV.2015 22:10:15

HSDPA Band V, Left Band Edge



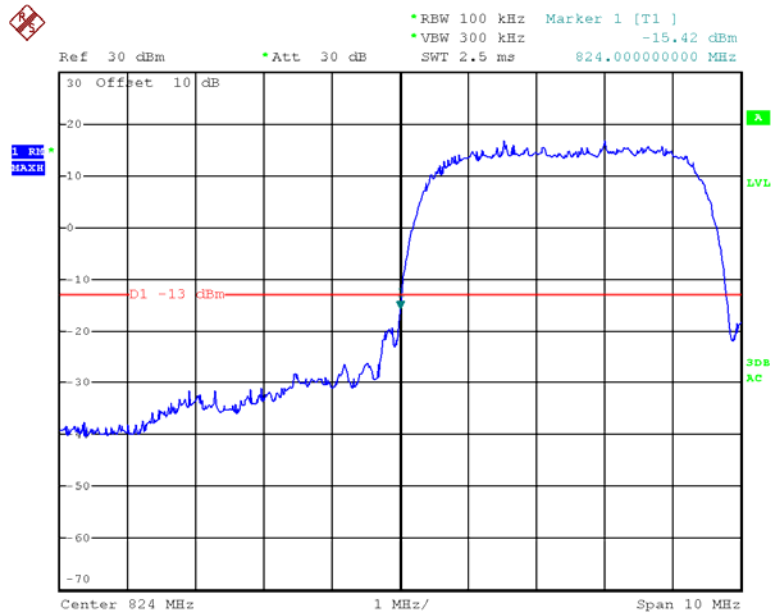
Date: 26.NOV.2015 21:59:19

HSDPA Band V, Right Band Edge



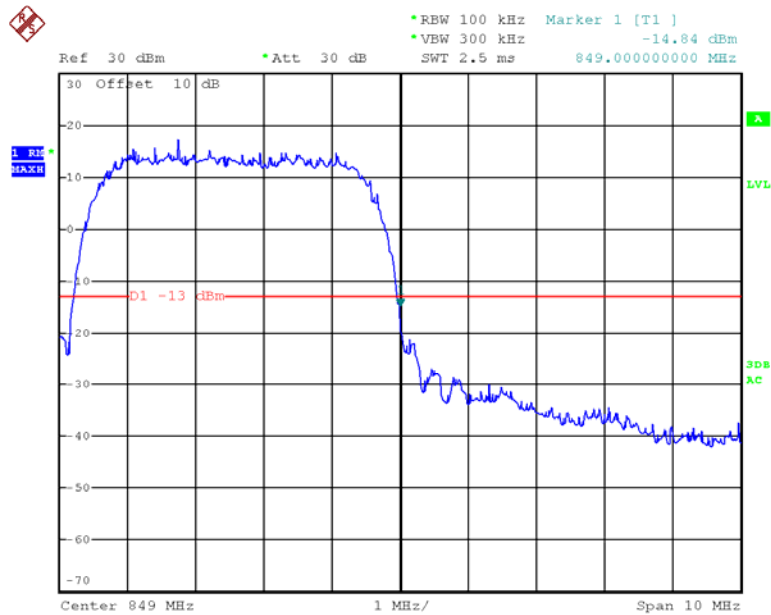
Date: 26.NOV.2015 22:04:41

HSUPA Band V, Left Band Edge



Date: 26.NOV.2015 22:01:57

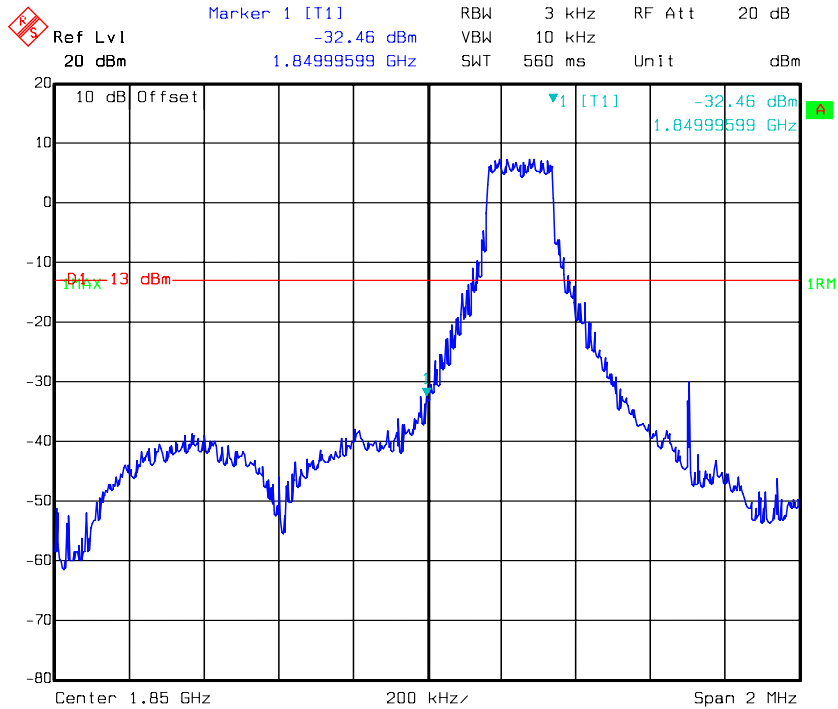
HSUPA Band V, Right Band Edge



Date: 26.NOV.2015 22:06:54

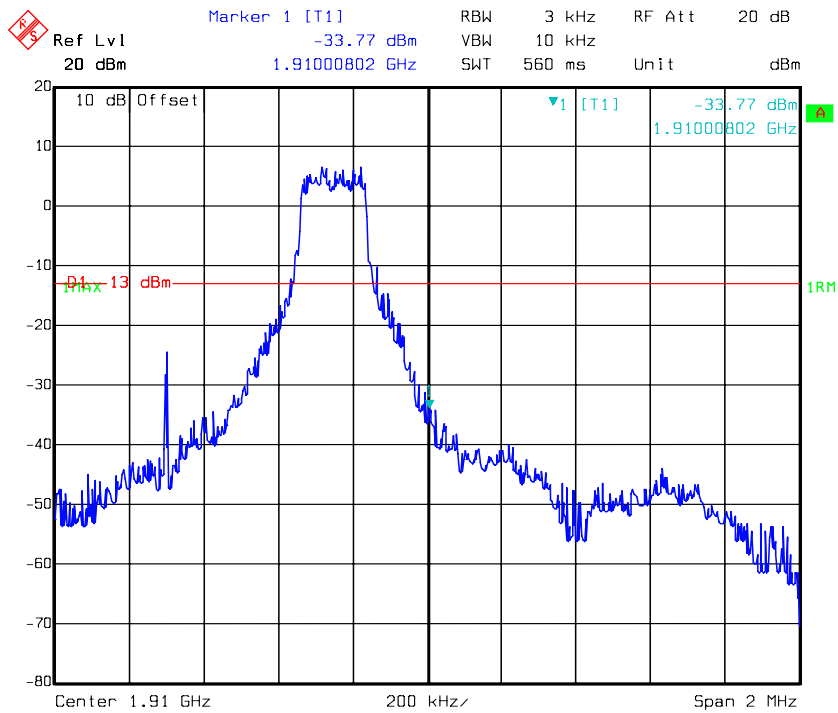
LTE Band 2:

QPSK-1.4M 1RB, Left Band Edge



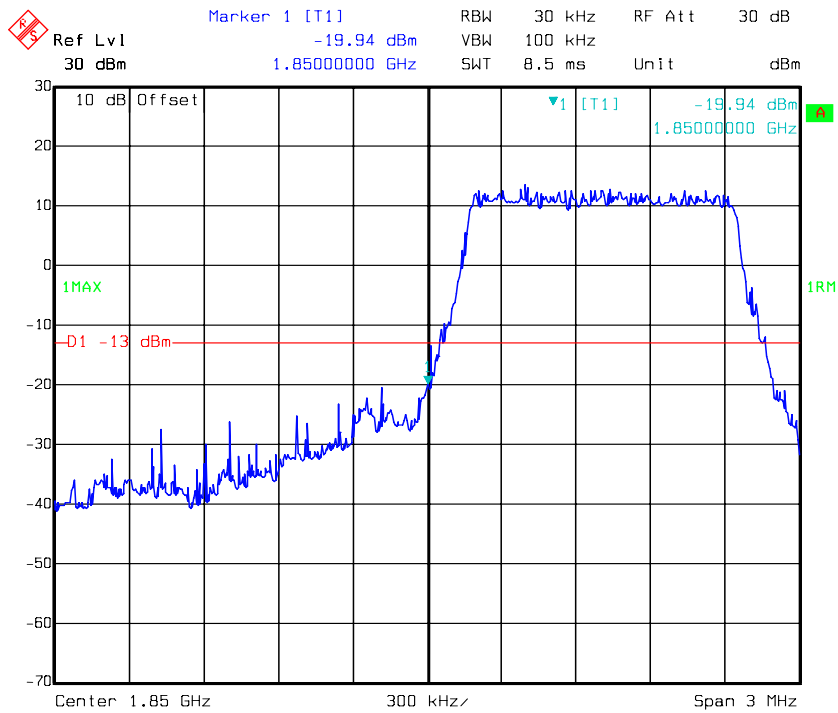
Date: 02.DEC.2015 21:50:29

QPSK-1.4M 1RB, Right Band Edge

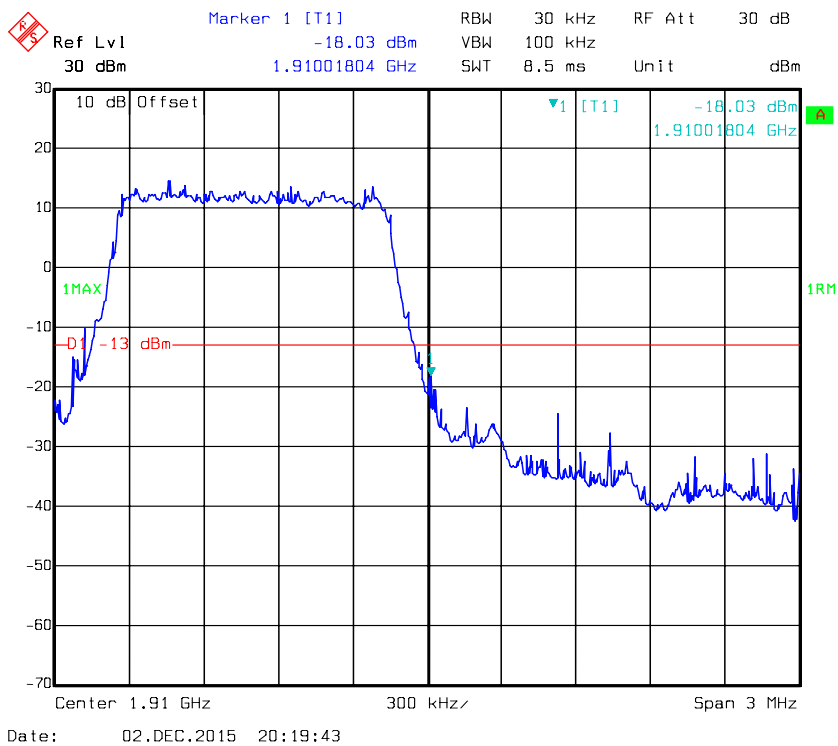


Date: 02.DEC.2015 21:49:32

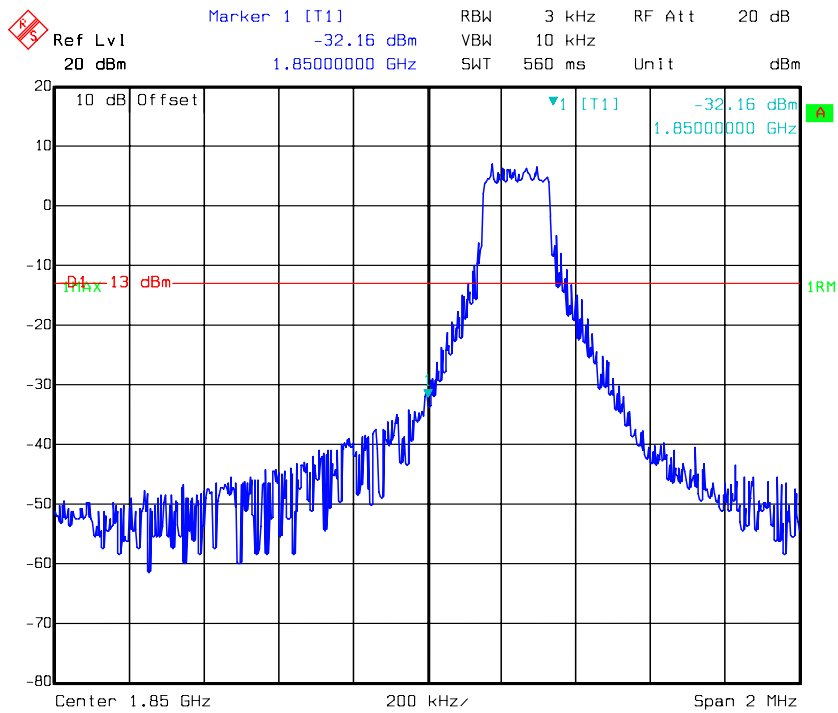
QPSK-1.4M 6RB, Left Band Edge



QPSK-1.4M 6RB, Right Band Edge

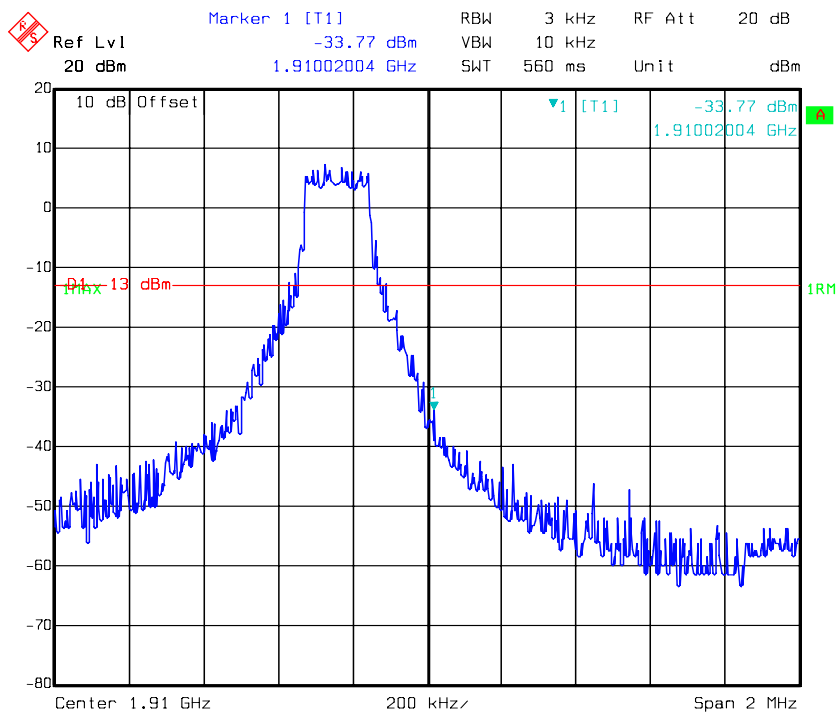


QPSK-3M 1RB, Left Band Edge



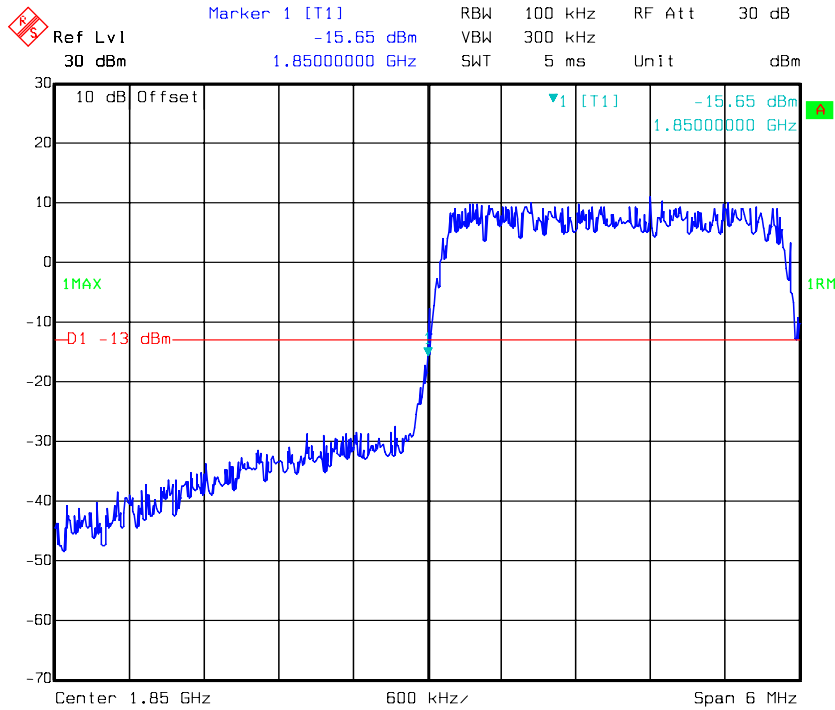
Date: 02.DEC.2015 21:45:54

QPSK-3M 1RB, Right Band Edge



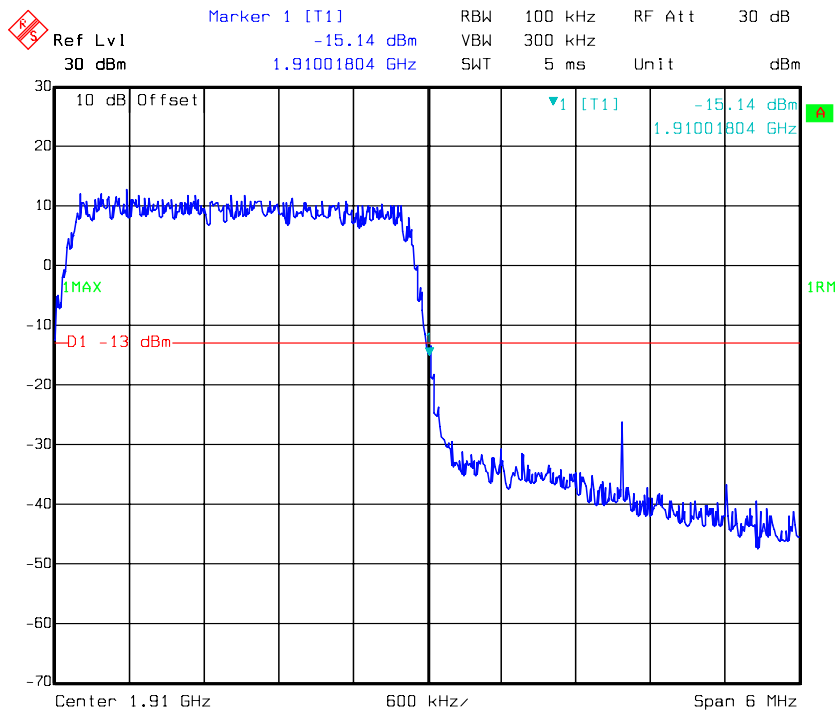
Date: 02.DEC.2015 21:47:22

QPSK-3M 15 RB, Left Band Edge



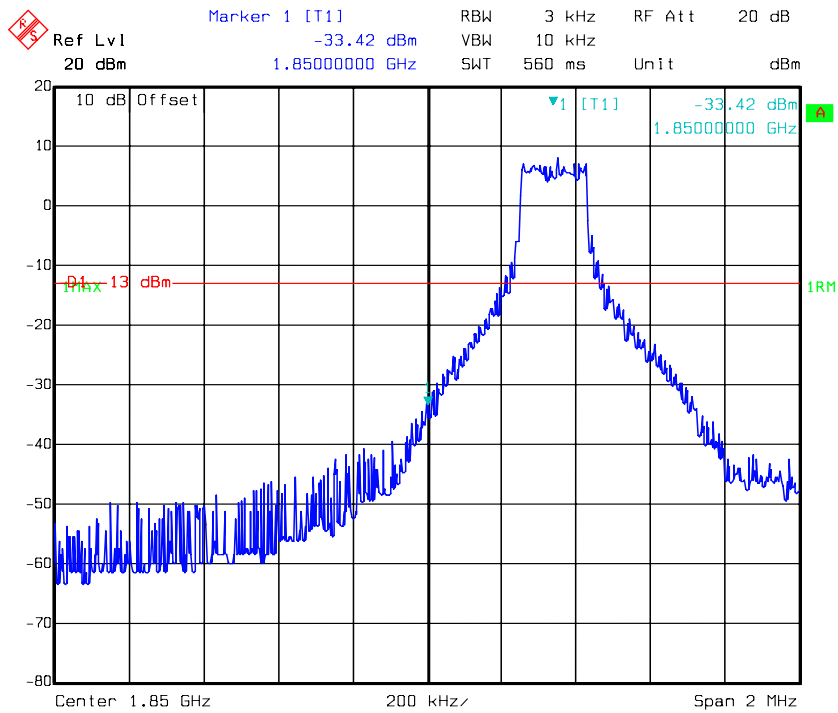
Date: 02.DEC.2015 20:25:31

QPSK-3M 15 RB, Right Band Edge

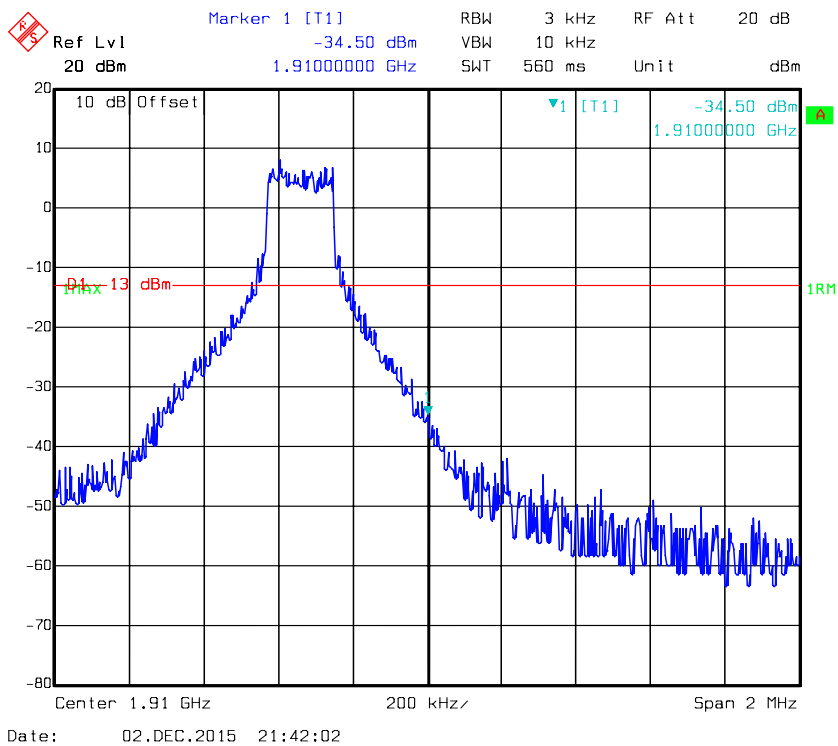


Date: 02.DEC.2015 20:21:03

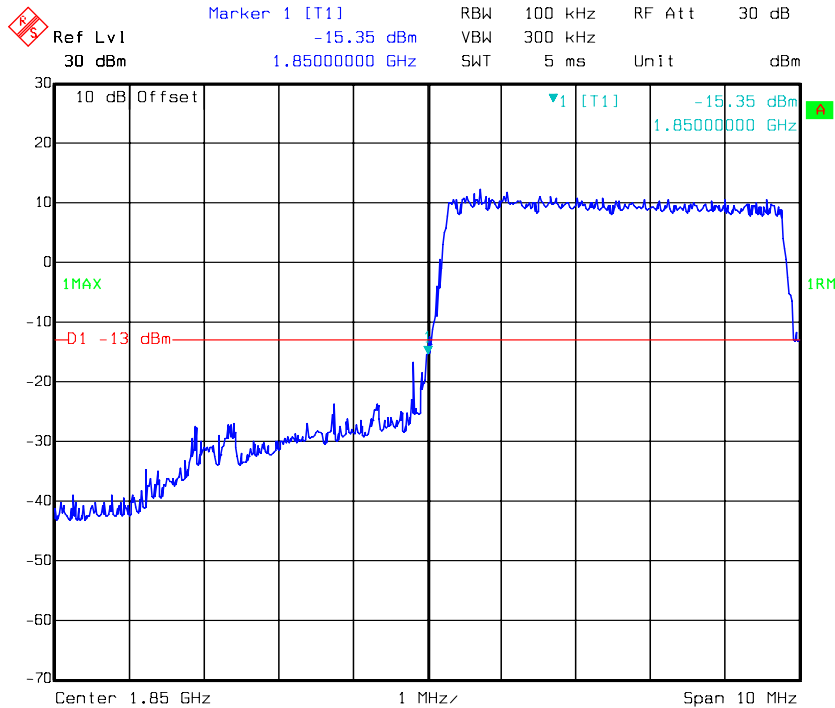
QPSK-5M 1RB, Left Band Edge



QPSK-5M 1RB, Right Band Edge

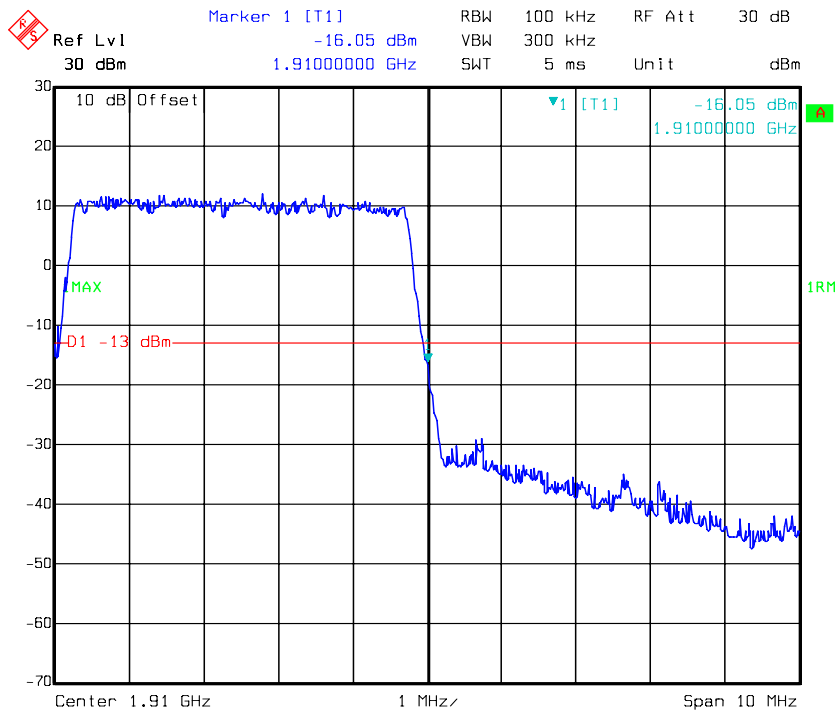


QPSK-5M 25 RB, Left Band Edge



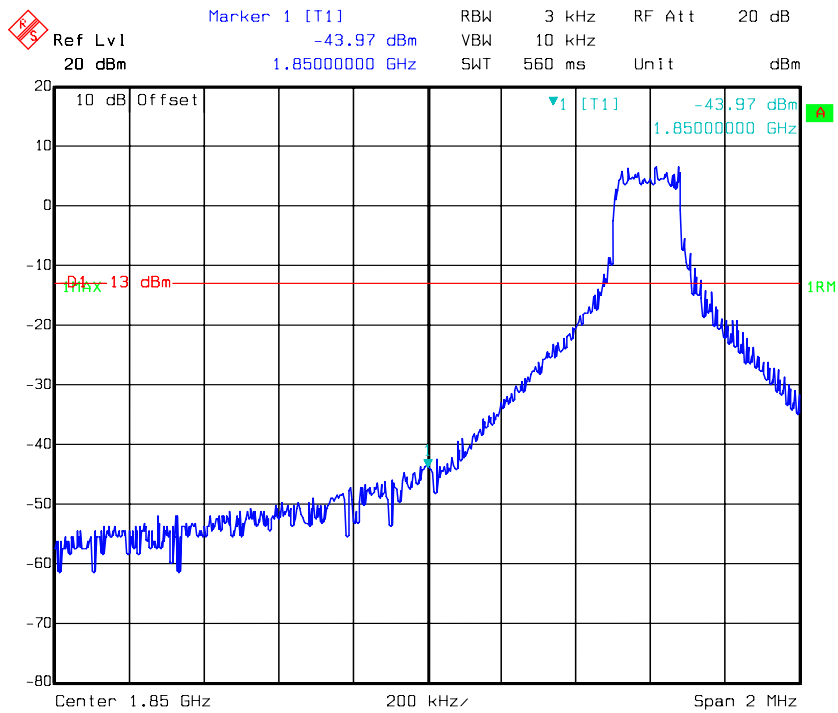
Date: 02.DEC.2015 20:28:28

QPSK-5M 25 RB, Right Band Edge



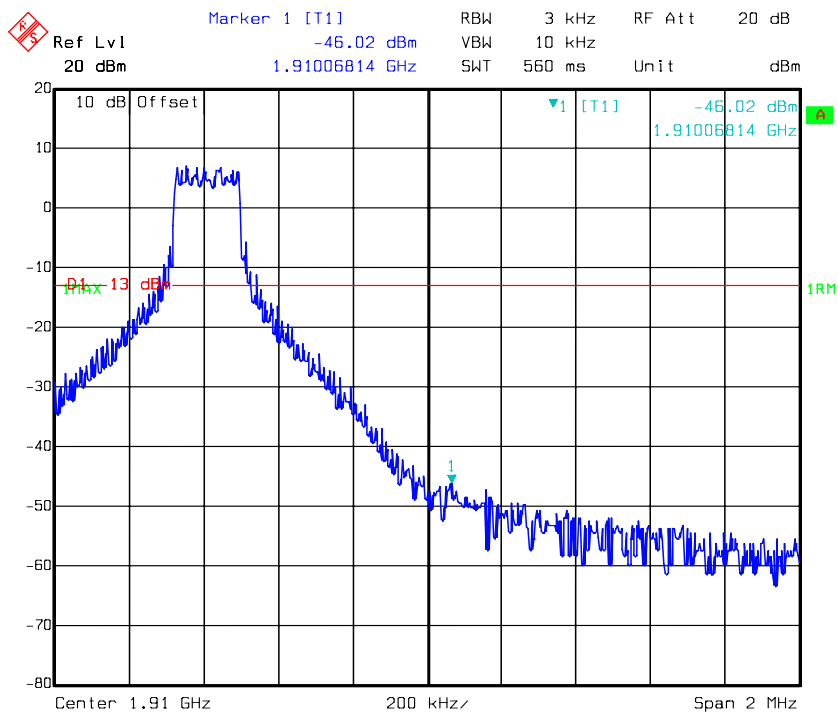
Date: 02.DEC.2015 20:29:28

QPSK-10M 1RB, Left Band Edge



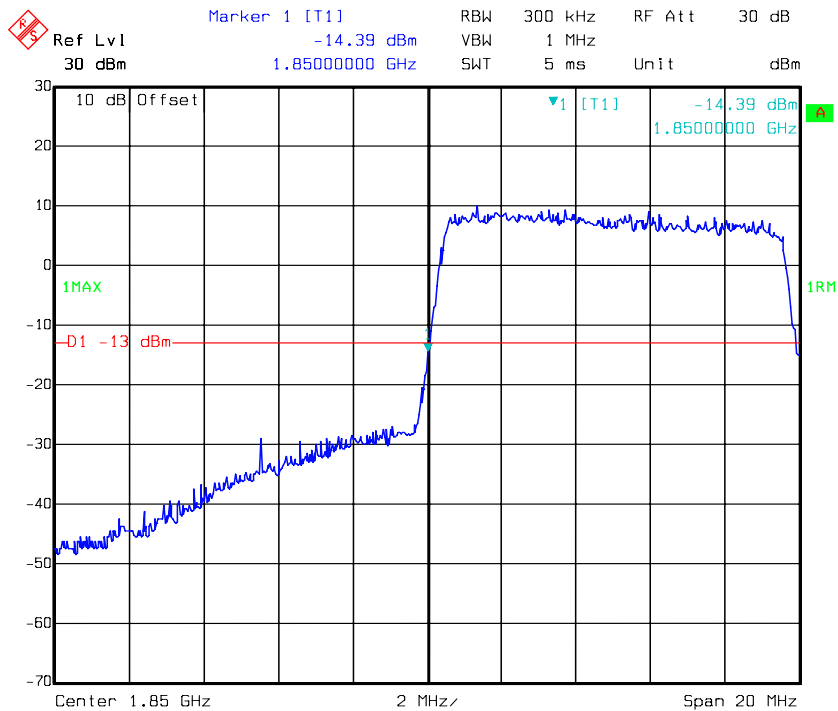
Date: 02.DEC.2015 21:37:42

QPSK-10M 1RB, Right Band Edge



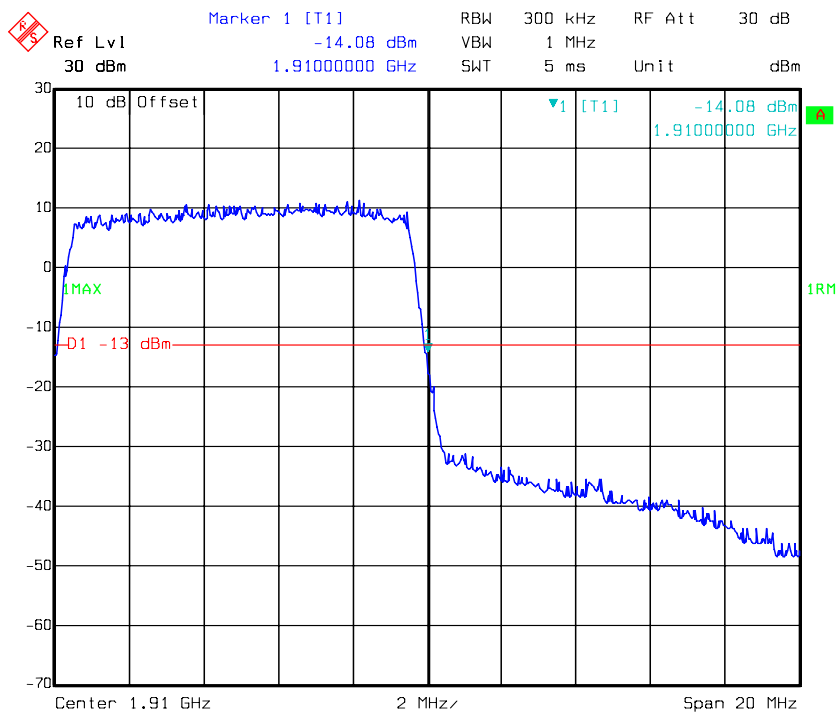
Date: 02.DEC.2015 21:40:08

QPSK-10M 50 RB, Left Band Edge



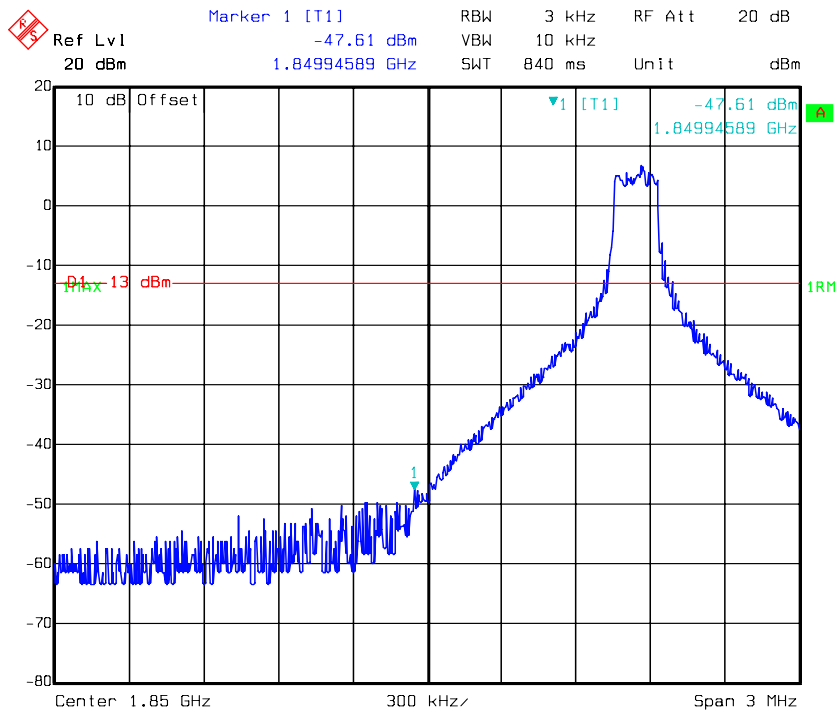
Date: 02.DEC.2015 20:33:27

QPSK-10M 50 RB, Right Band Edge

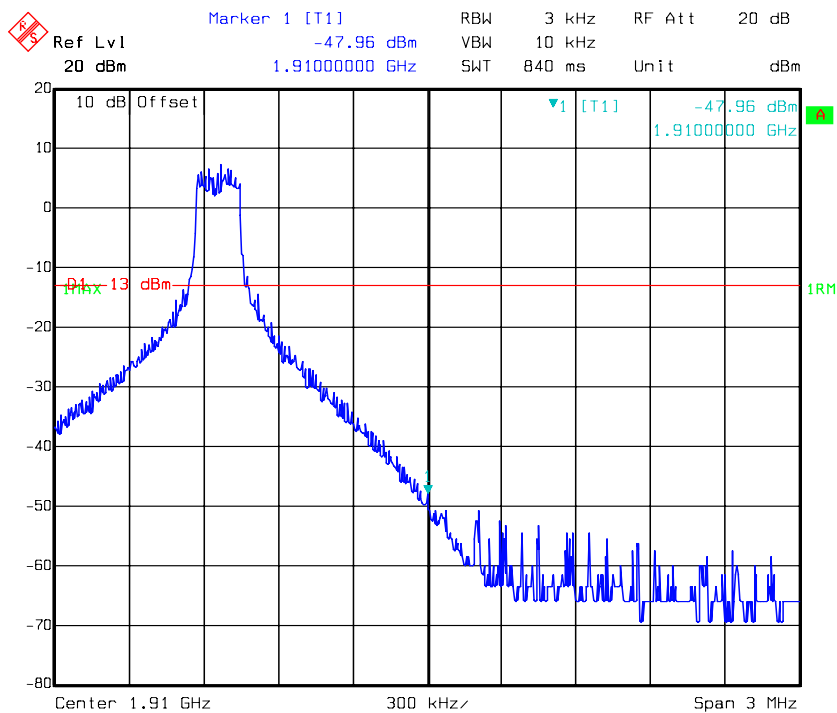


Date: 02.DEC.2015 20:31:55

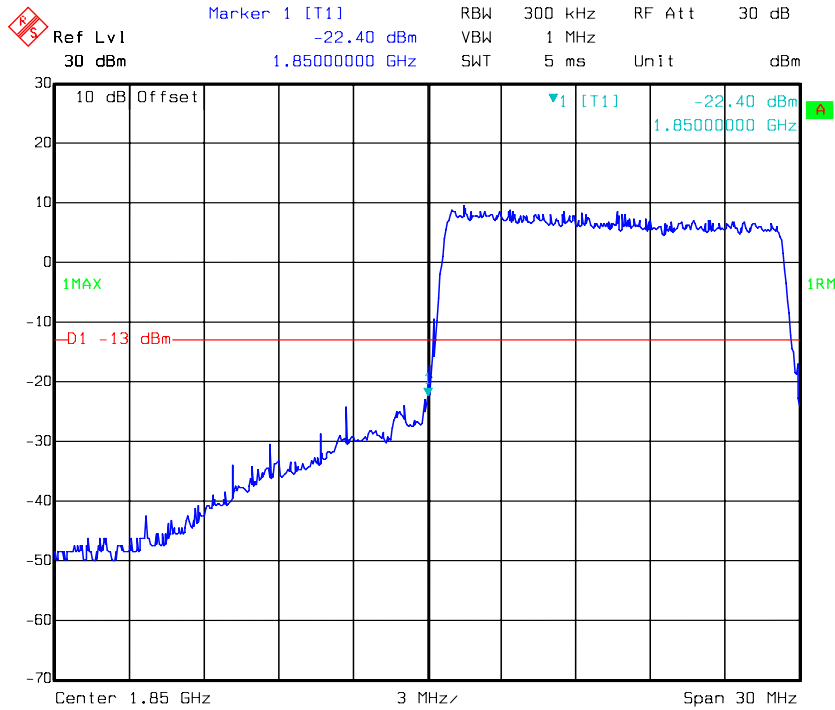
QPSK-15M 1RB, Left Band Edge



QPSK-15M 1RB, Right Band Edge

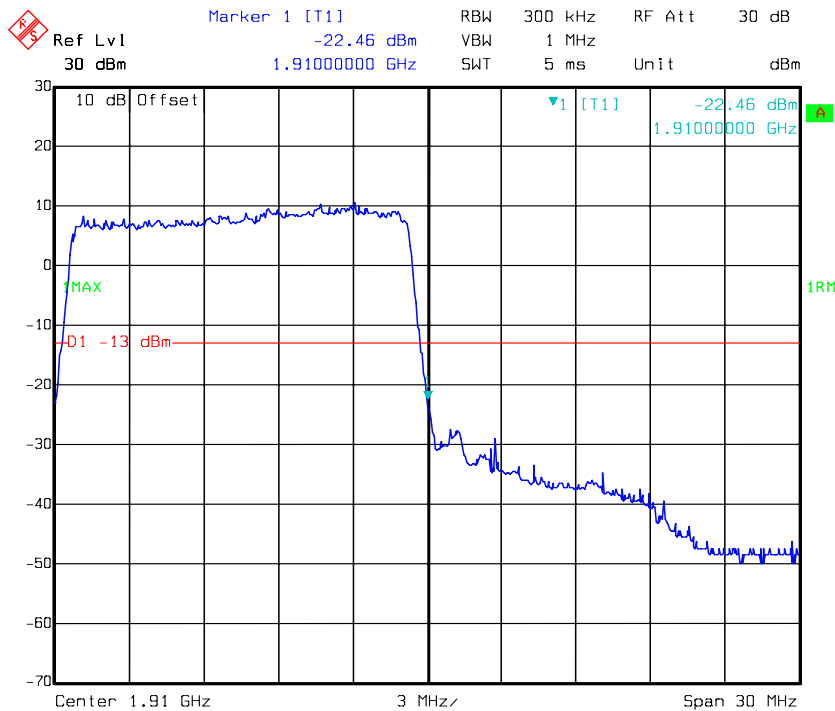


QPSK-15M 75 RB, Left Band Edge



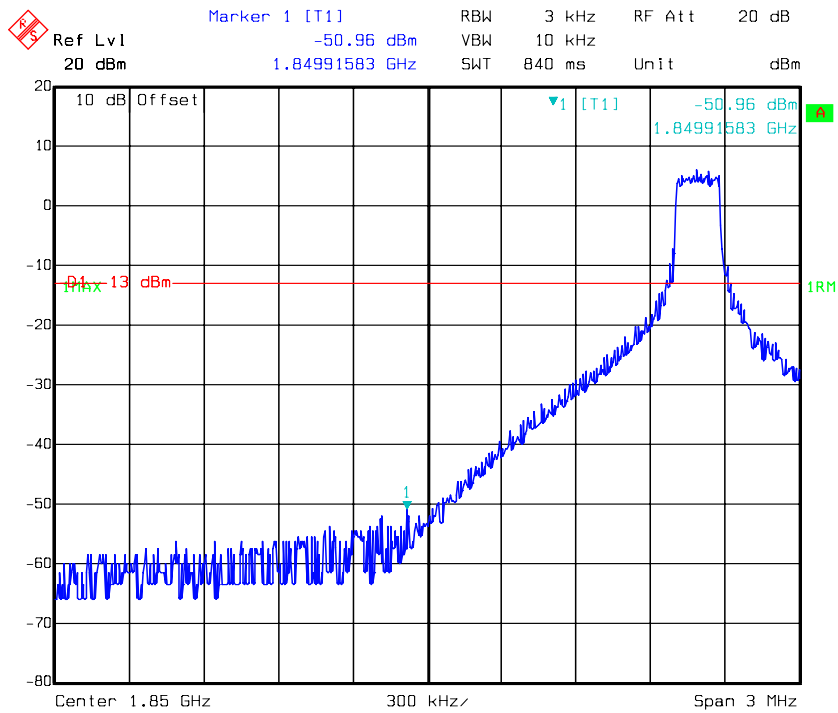
Date: 02.DEC.2015 20:35:30

QPSK-15M 75 RB, Right Band Edge

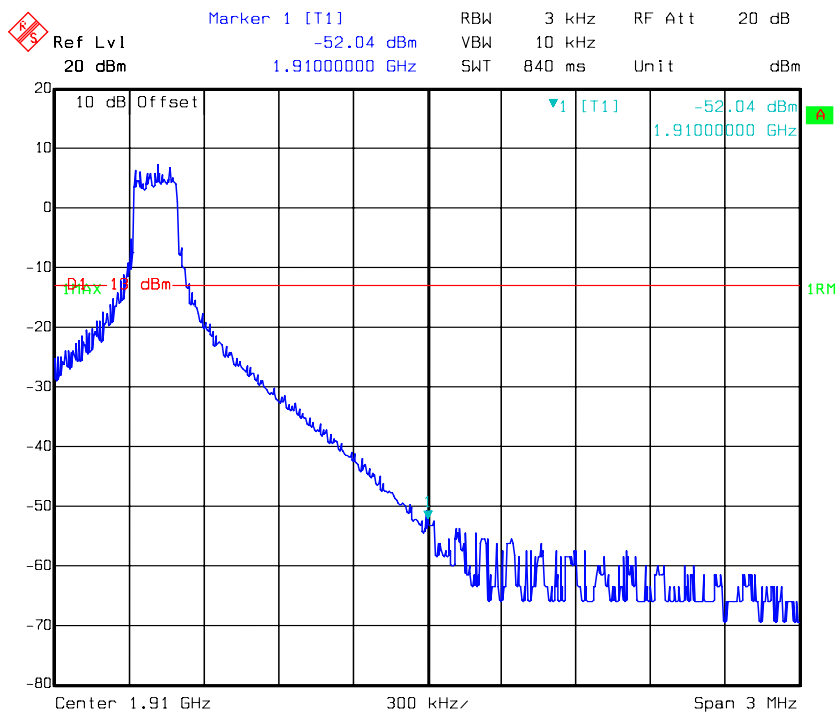


Date: 02.DEC.2015 20:36:33

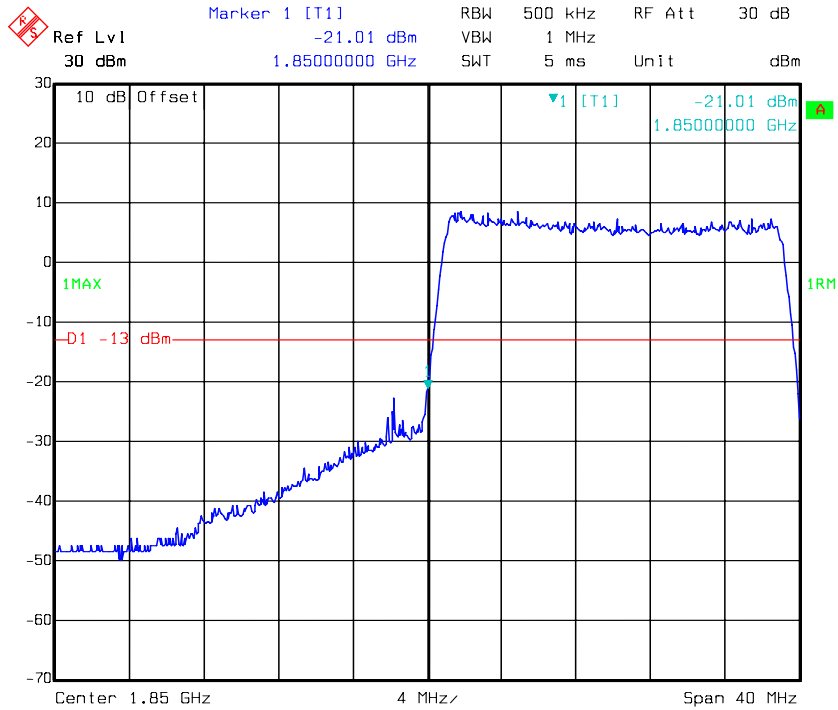
QPSK-20M 1RB, Left Band Edge



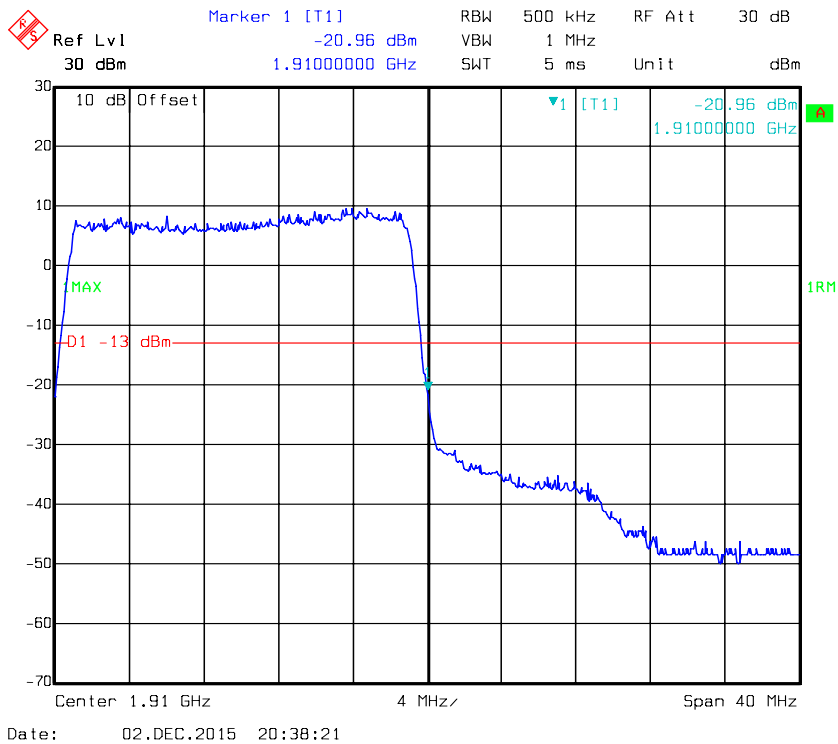
QPSK-20M 1RB, Right Band Edge



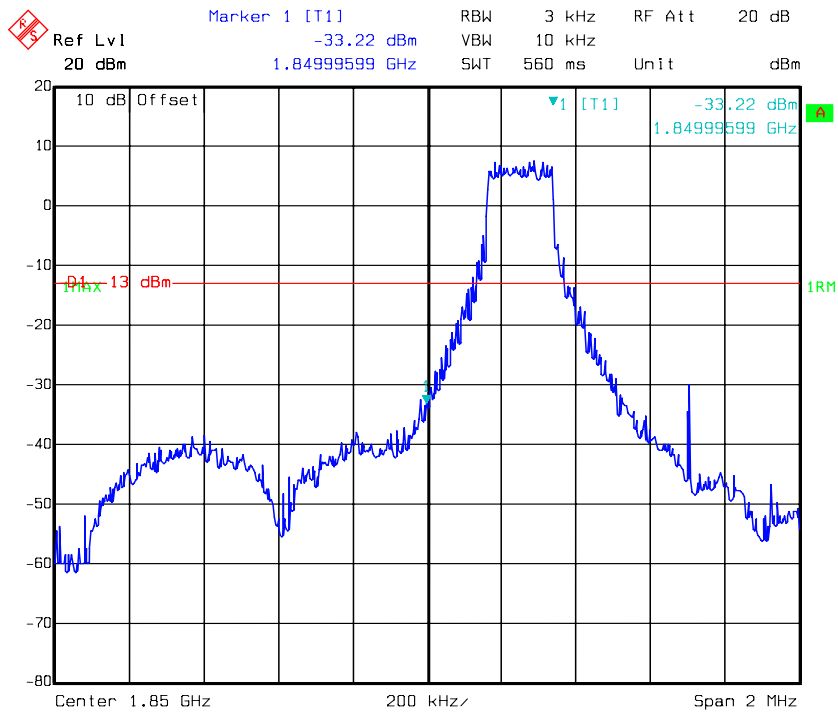
QPSK-20M 100 RB, Left Band Edge



QPSK-20M 100 RB, Right Band Edge

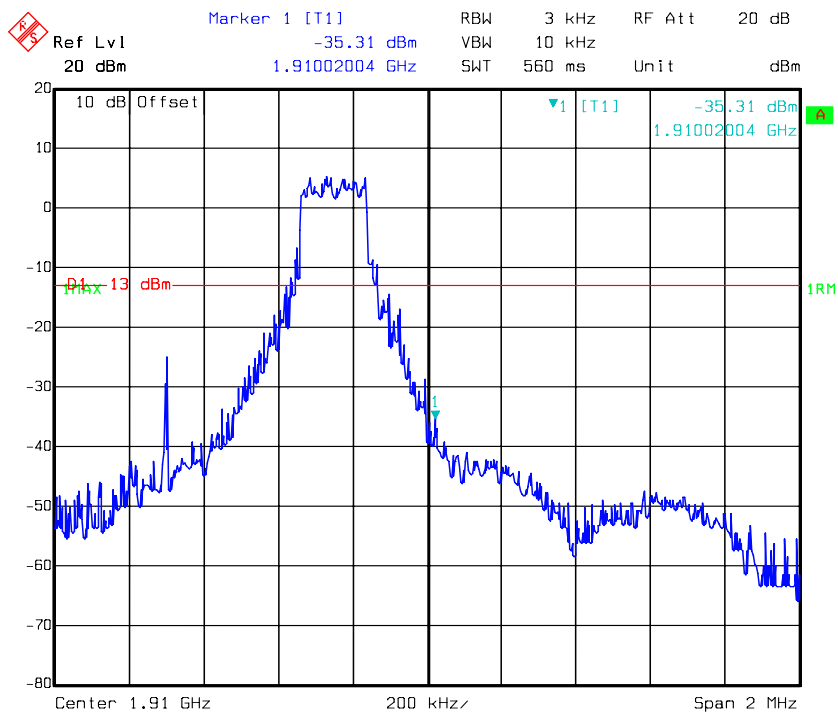


16QAM -1.4M 1RB, Left Band Edge



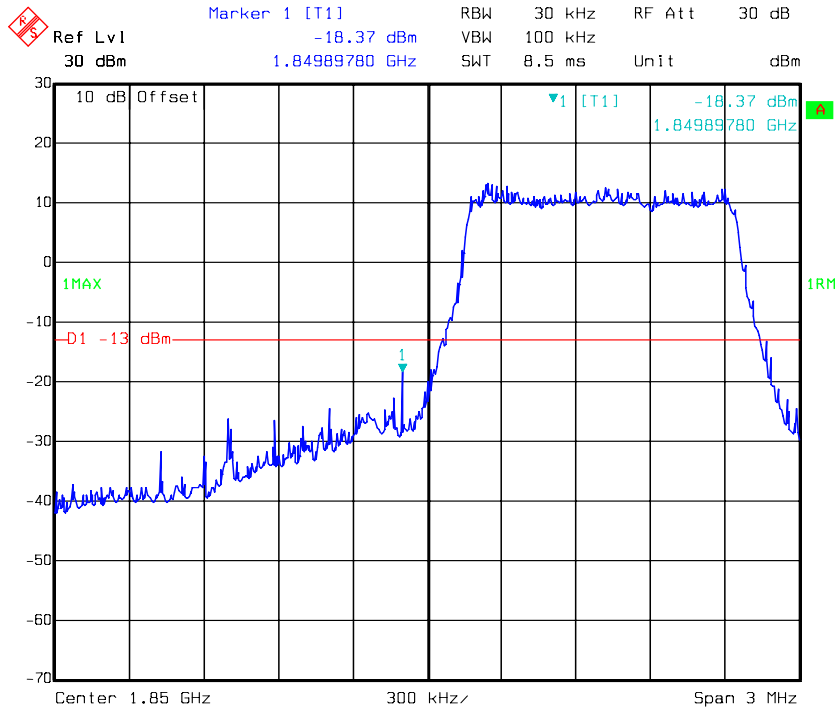
Date: 02.DEC.2015 21:50:50

16QAM -1.4M 1RB, Right Band Edge

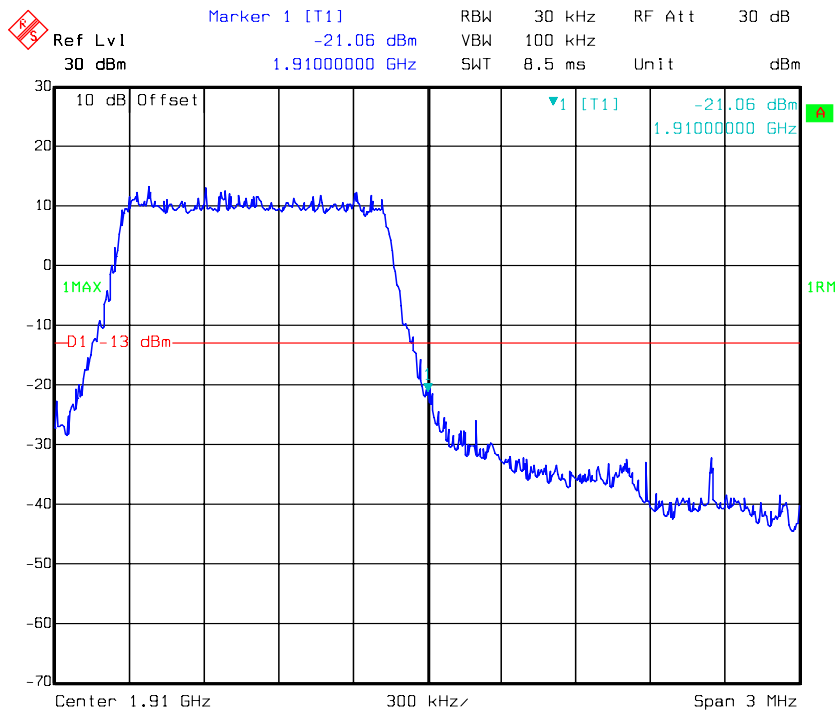


Date: 02.DEC.2015 21:48:51

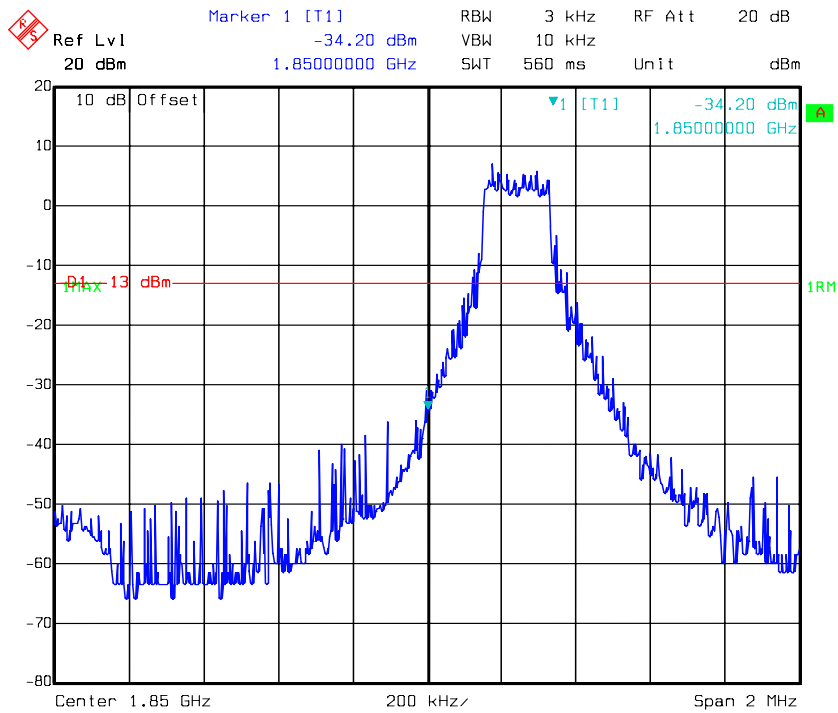
16QAM -1.4M 6 RB, Left Band Edge



16QAM -1.4M 6 RB, Right Band Edge

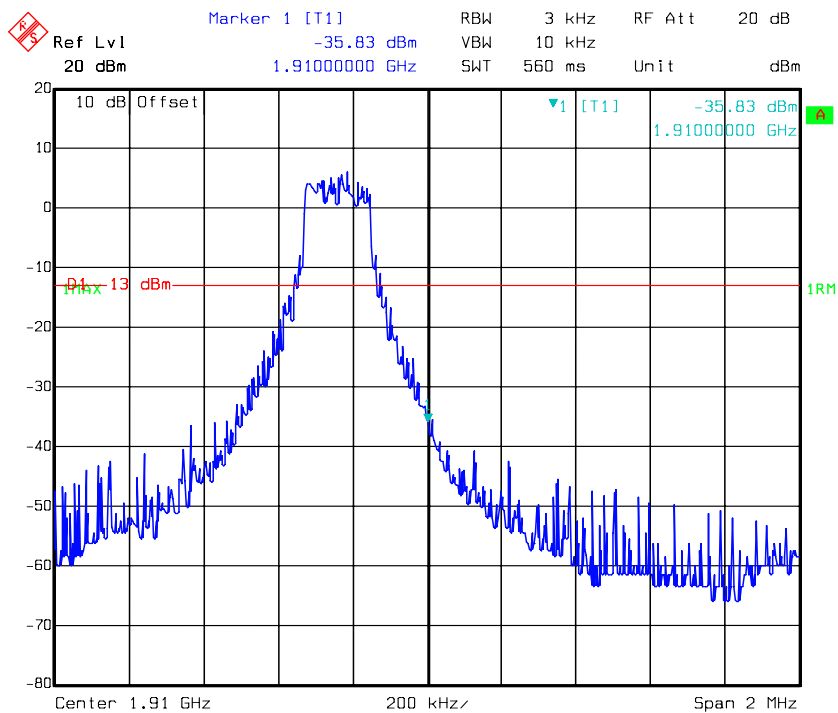


16QAM -3M 1RB, Left Band Edge



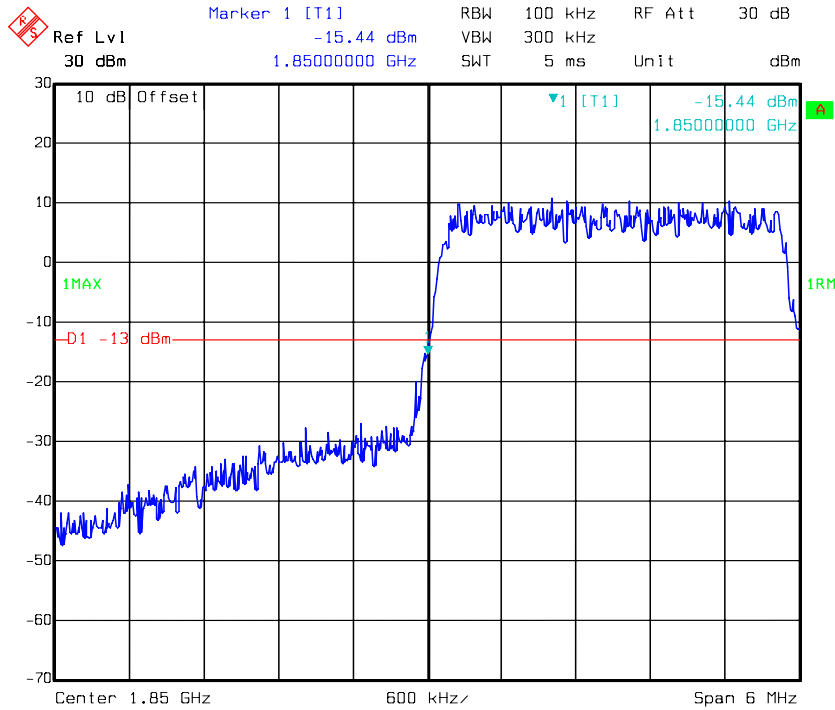
Date: 02.DEC.2015 21:45:19

16QAM -3M 1RB, Right Band Edge

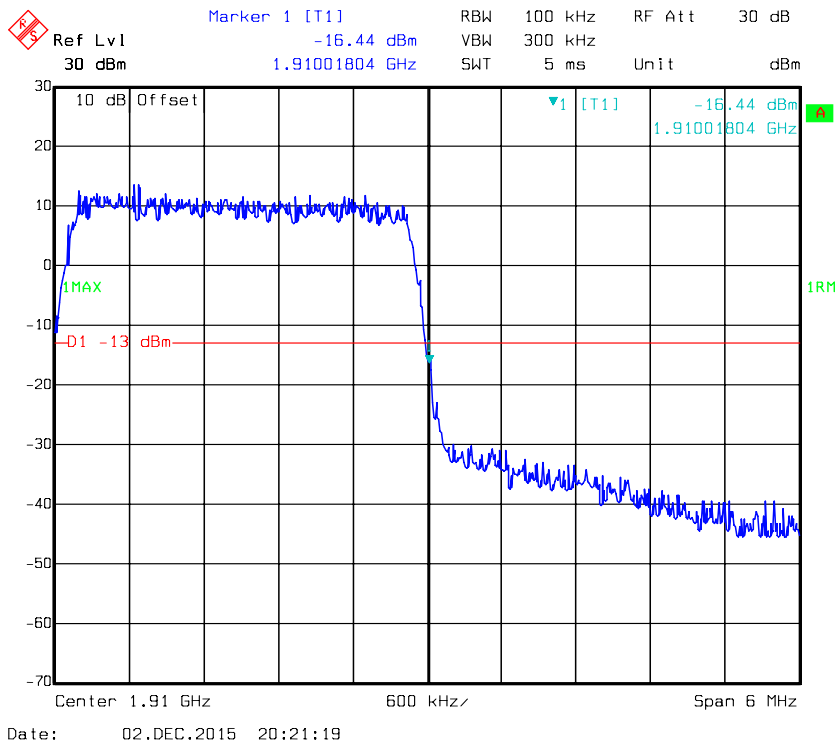


Date: 02.DEC.2015 21:46:39

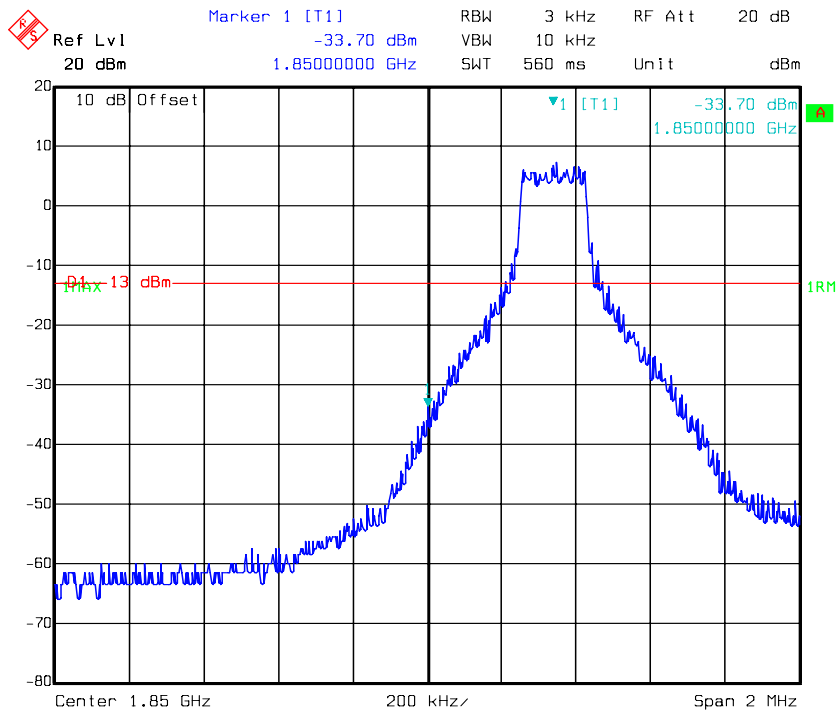
16QAM -3M 15 RB, Left Band Edge



16QAM -3M 15 RB, Right Band Edge

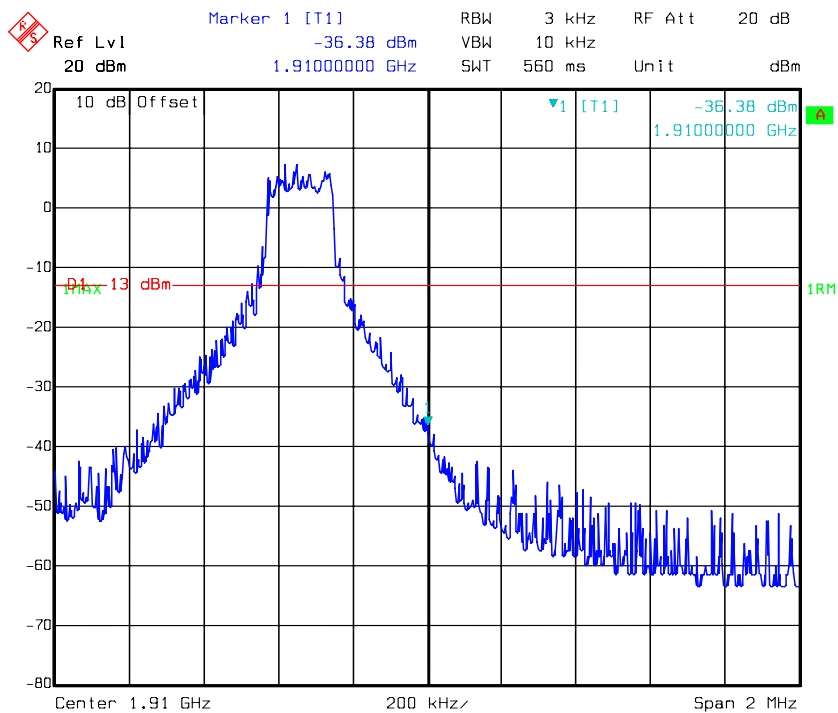


16QAM -5M 1RB, Left Band Edge



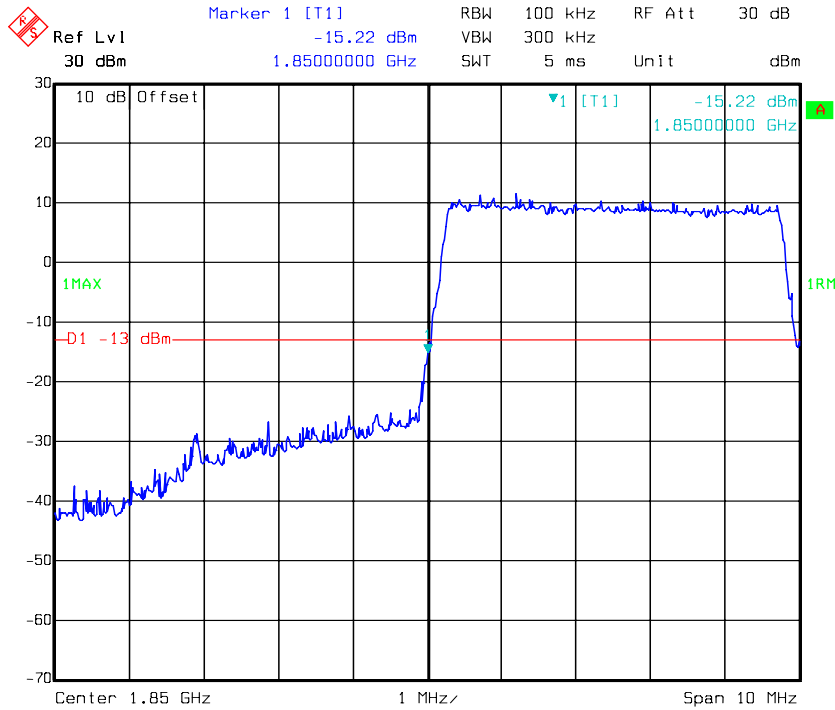
Date: 02.DEC.2015 21:43:12

16QAM -5M 1RB, Right Band Edge

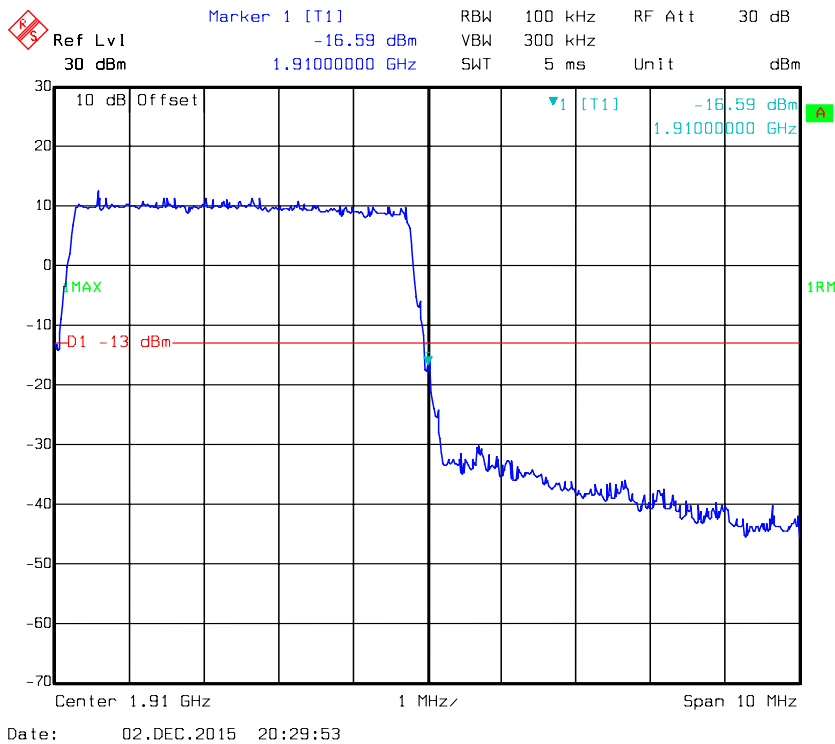


Date: 02.DEC.2015 21:41:17

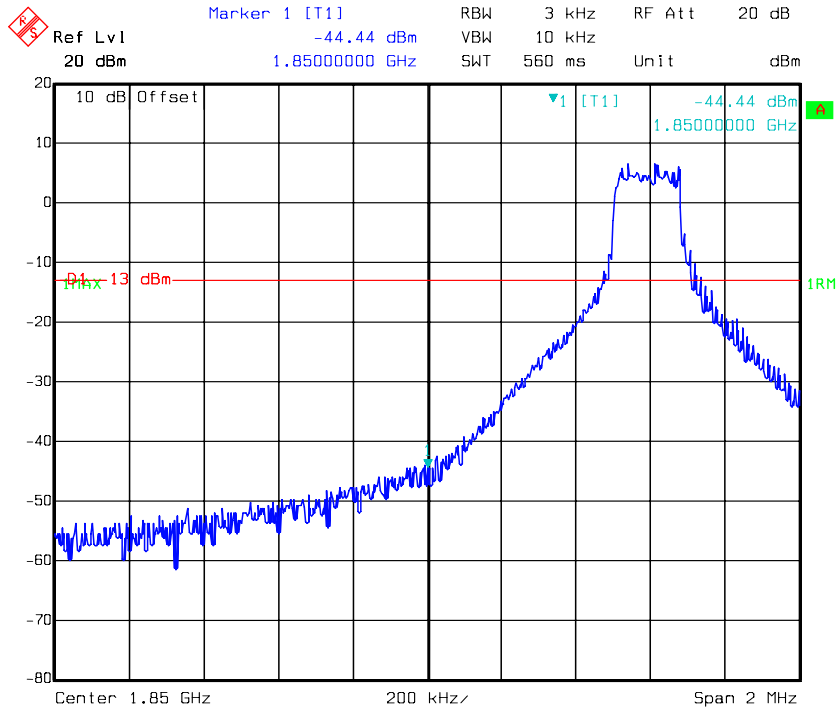
16QAM -5M 25 RB, Left Band Edge



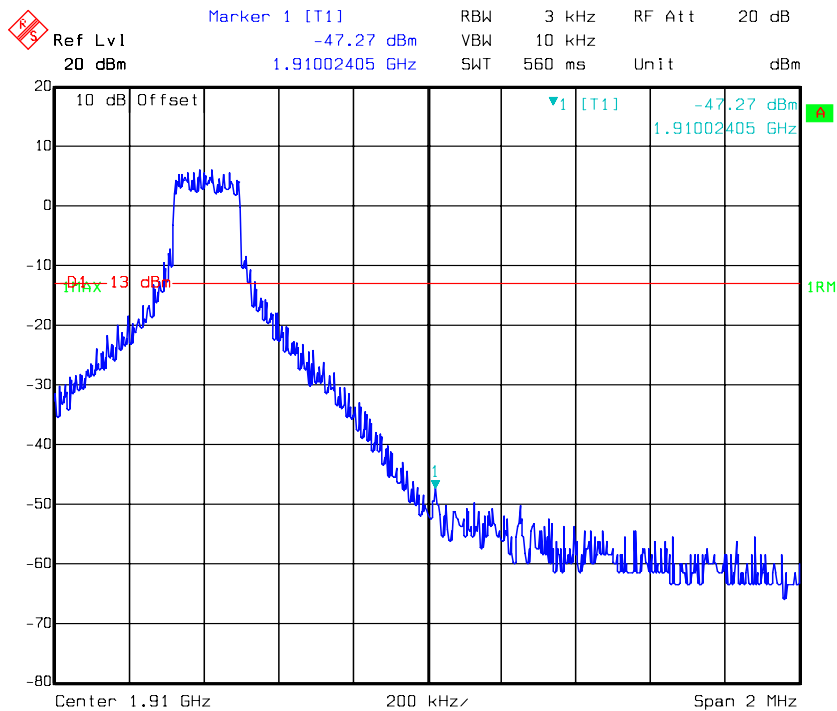
16QAM -5M 25 RB, Right Band Edge



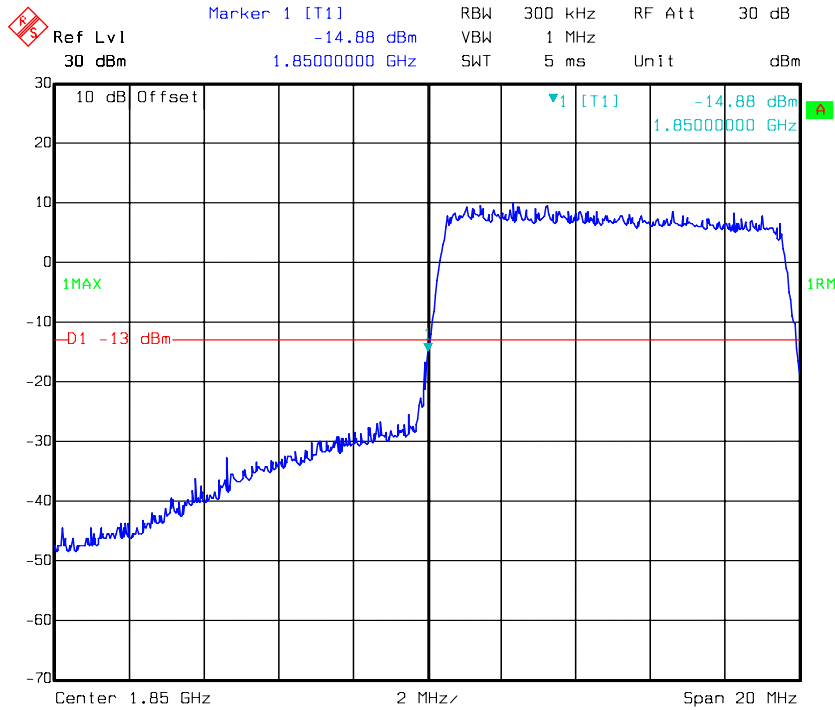
16QAM -10M 1RB, Left Band Edge



16QAM -10M 1RB, Right Band Edge

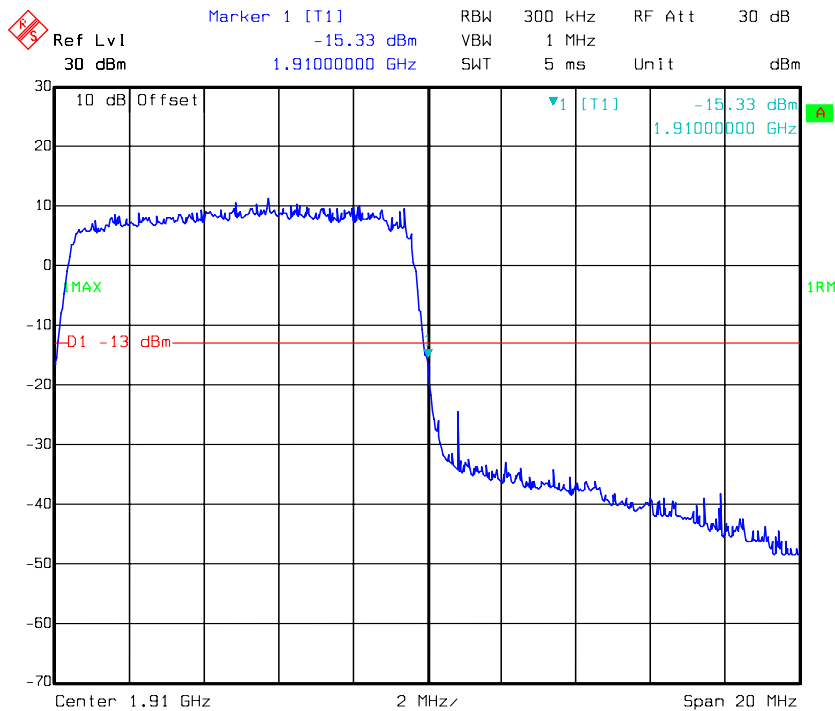


16QAM -10M 50 RB, Left Band Edge



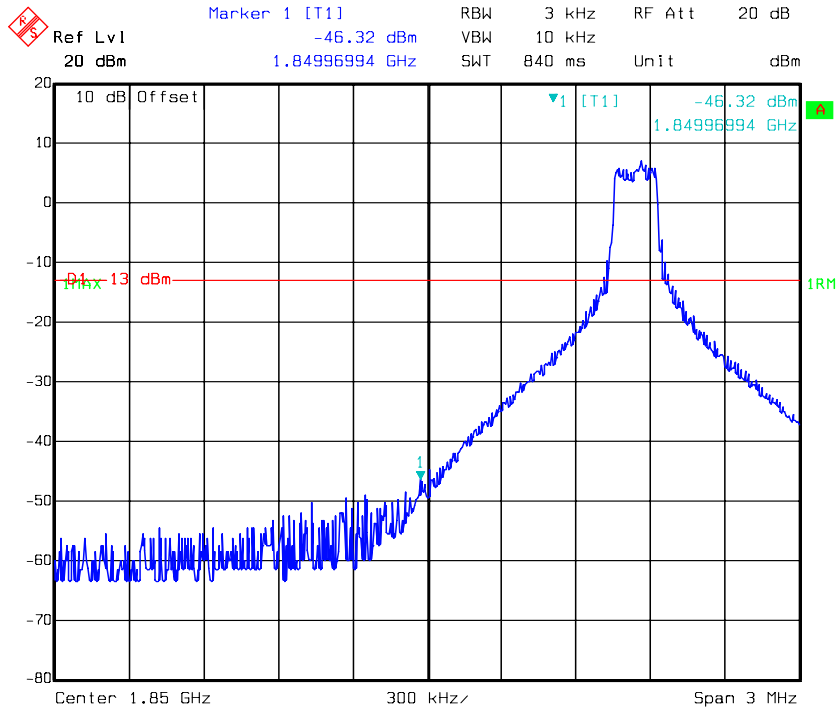
Date: 02.DEC.2015 20:33:53

16QAM -10M 50 RB, Right Band Edge

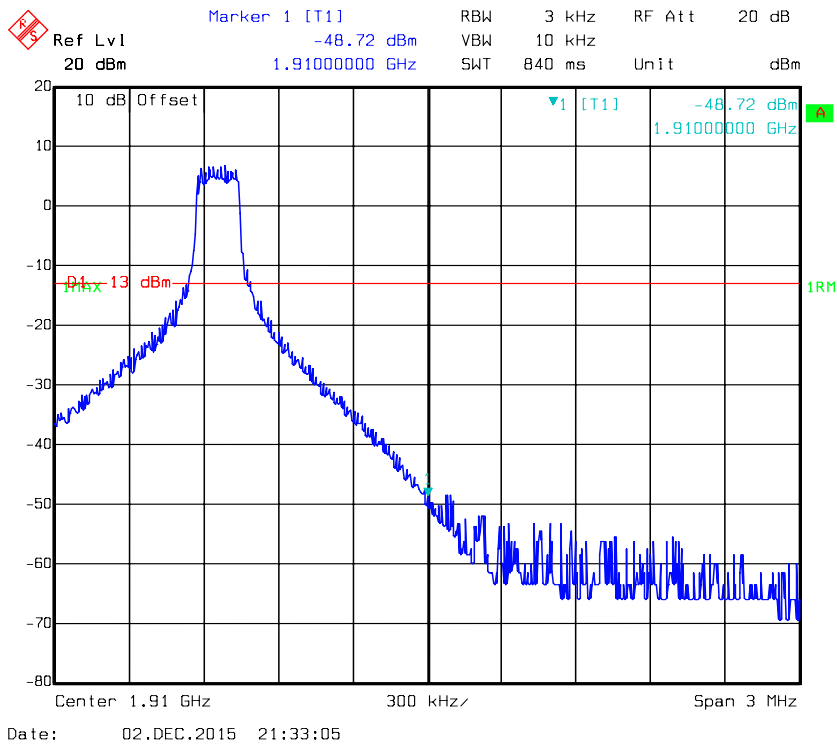


Date: 02.DEC.2015 20:32:19

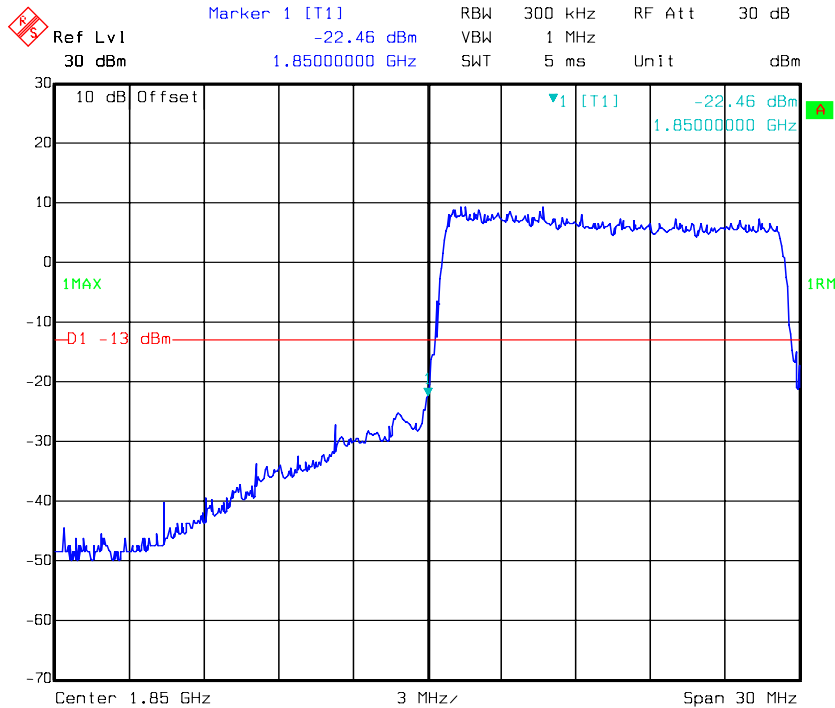
16QAM -15M 1RB, Left Band Edge



16QAM -15M 1RB, Right Band Edge

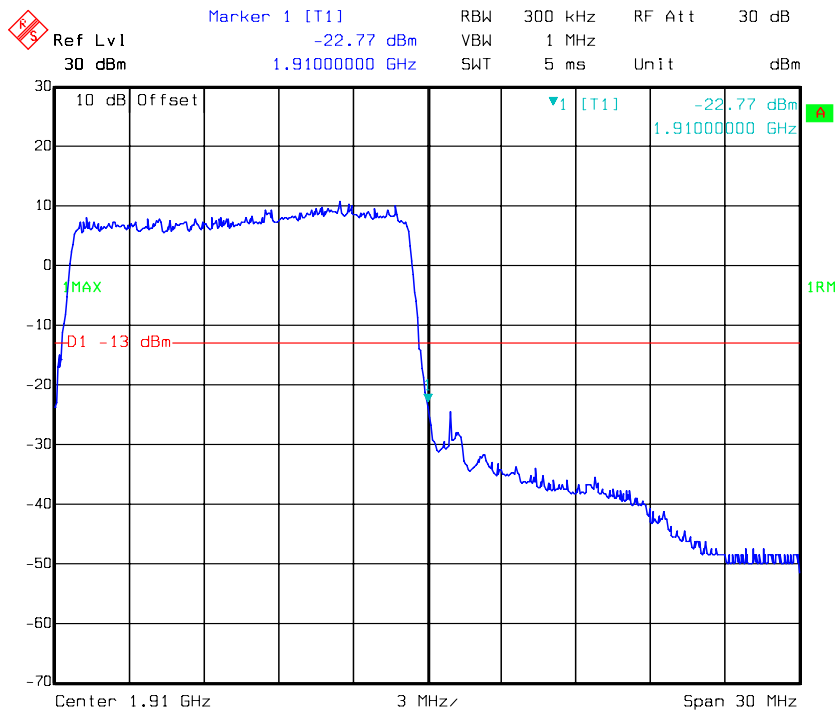


16QAM -15M 75 RB, Left Band Edge



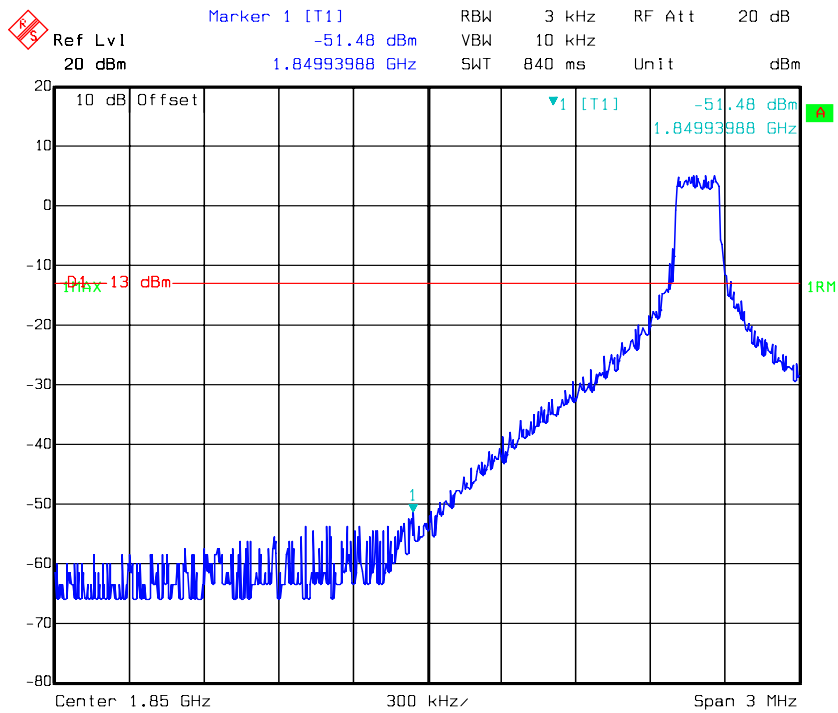
Date: 02.DEC.2015 20:35:00

16QAM -15M 75 RB, Right Band Edge



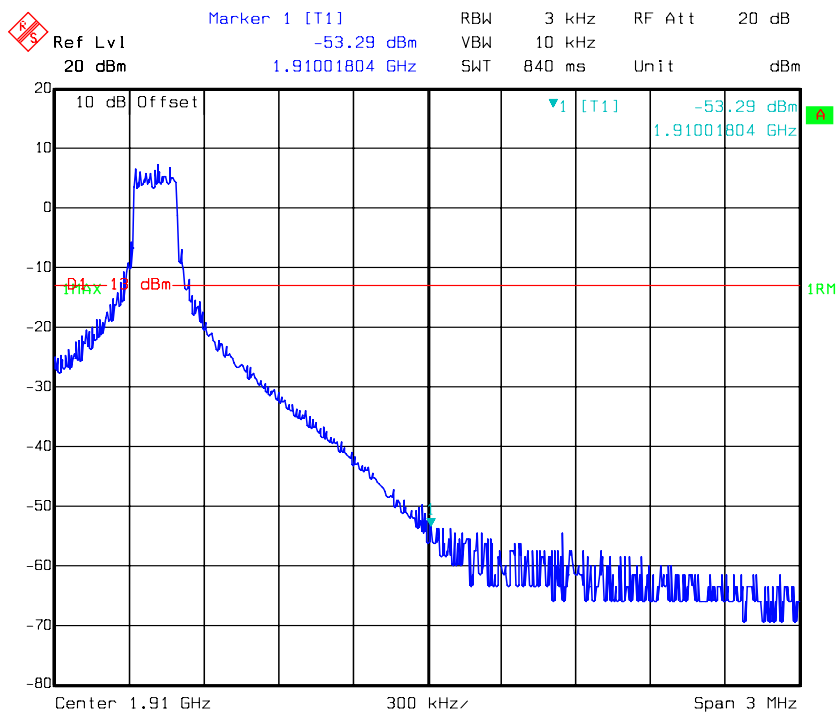
Date: 02.DEC.2015 20:36:59

16QAM -20M 1RB, Left Band Edge



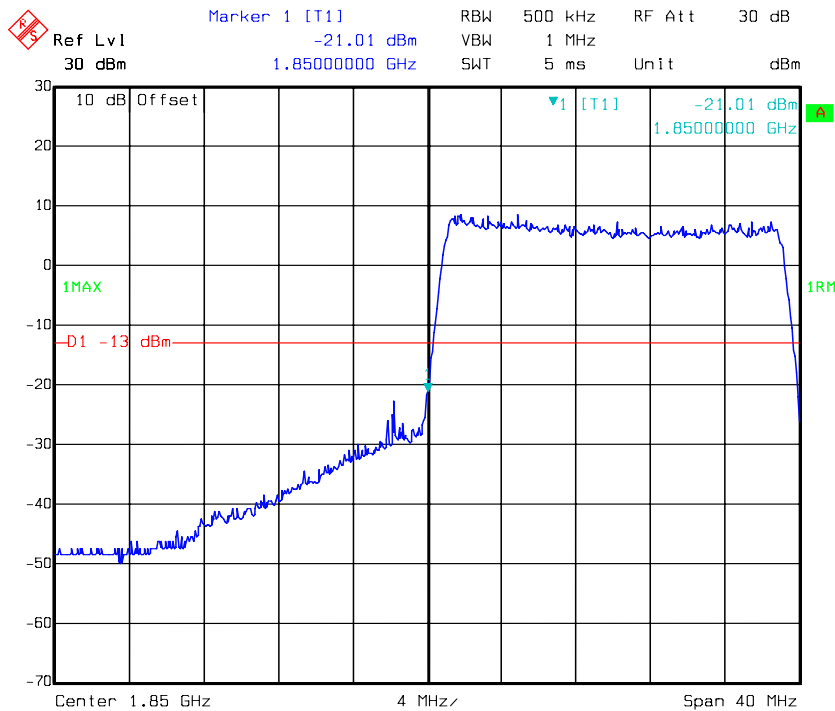
Date: 02.DEC.2015 21:30:00

16QAM -20M 1RB, Right Band Edge



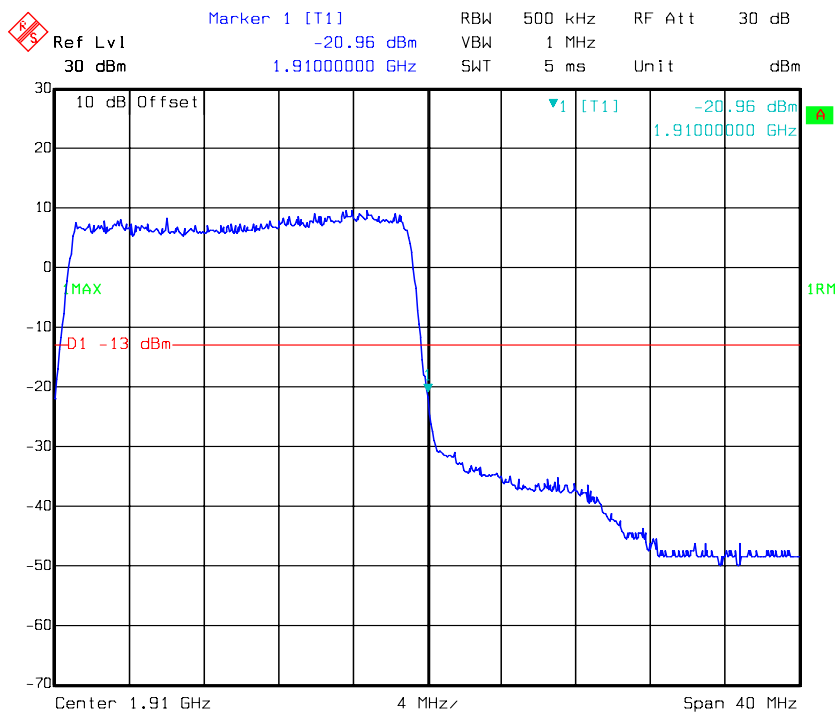
Date: 02.DEC.2015 21:31:07

16QAM -20M 100 RB, Left Band Edge



Date: 02.DEC.2015 20:38:50

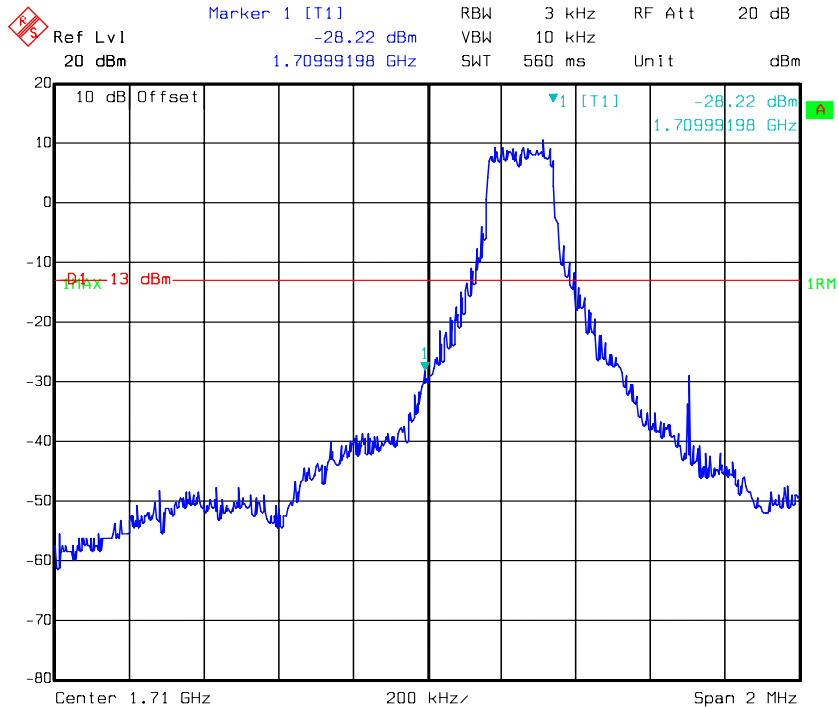
16QAM-20M 100 RB, Right Band Edge



Date: 02.DEC.2015 20:38:21

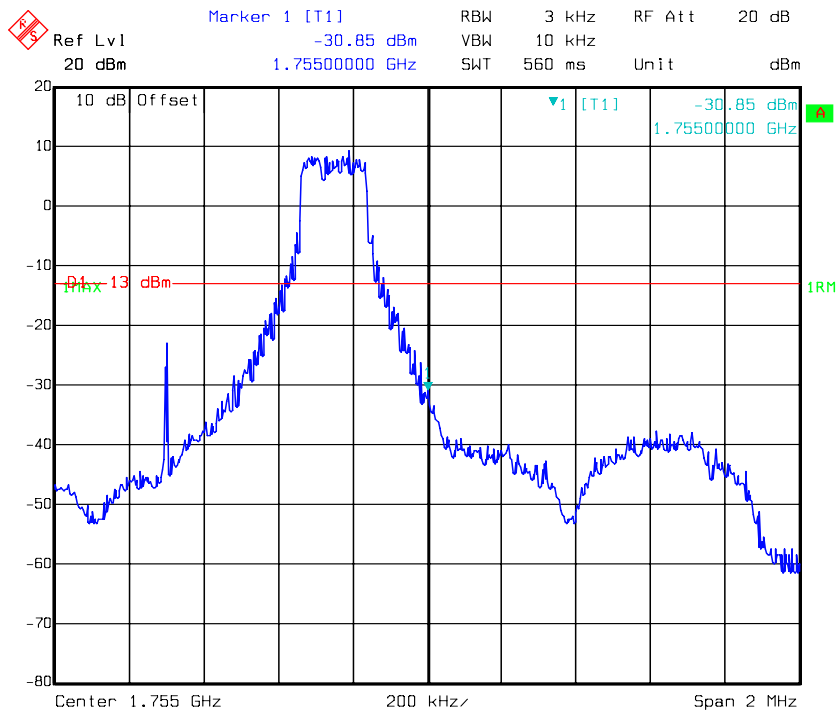
LTE Band 4:

QPSK-1.4M 1RB, Left Band Edge



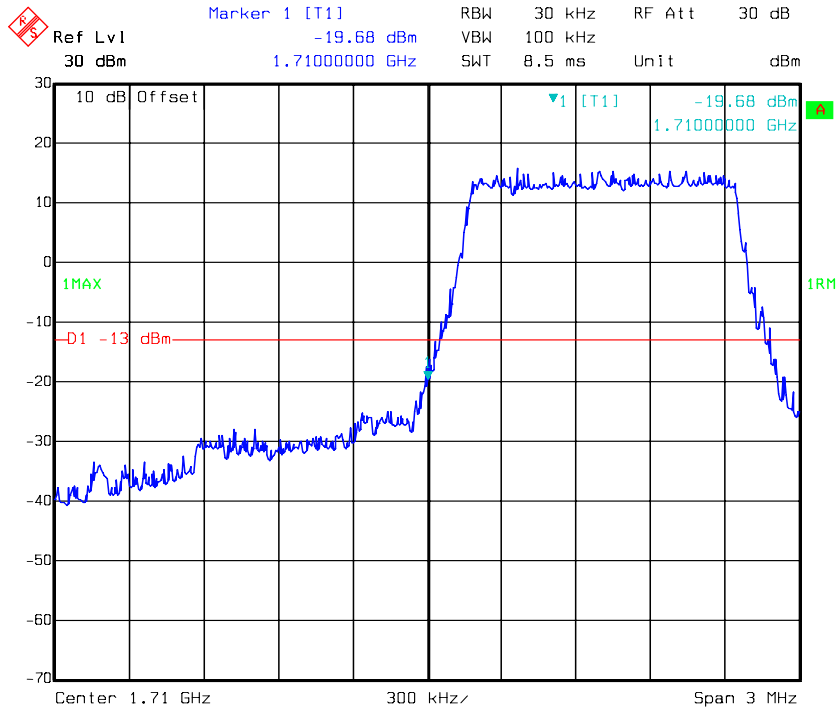
Date: 02.DEC.2015 21:10:02

QPSK-1.4M 1RB, Right Band Edge

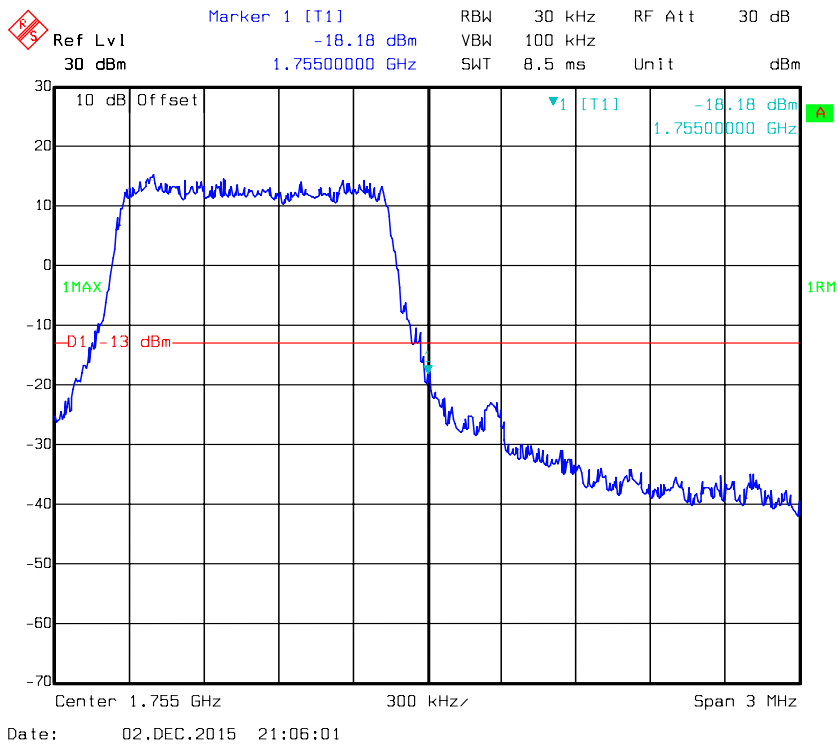


Date: 02.DEC.2015 21:11:06

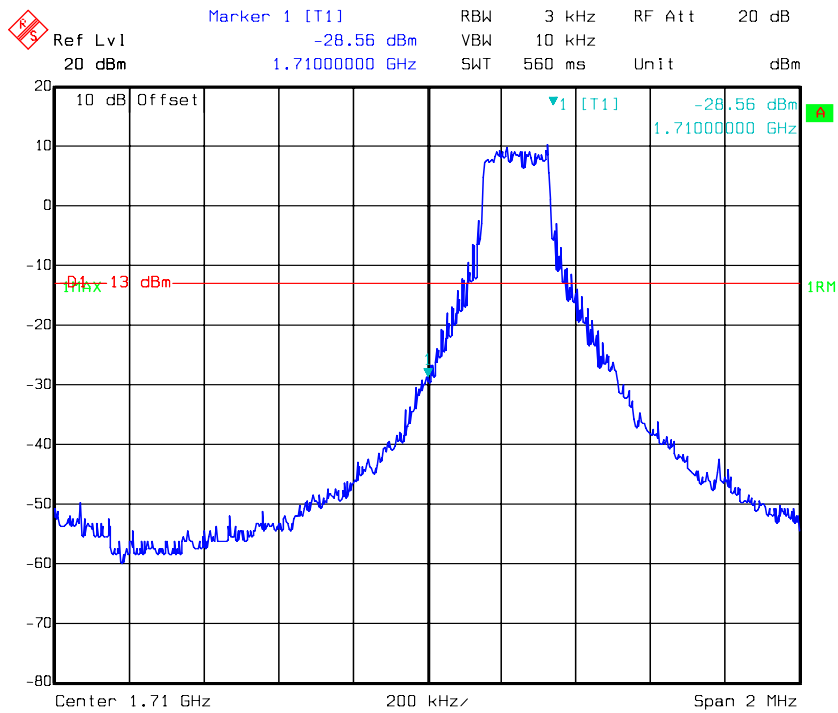
QPSK-1.4M 6RB, Left Band Edge



QPSK-1.4M 6RB, Right Band Edge

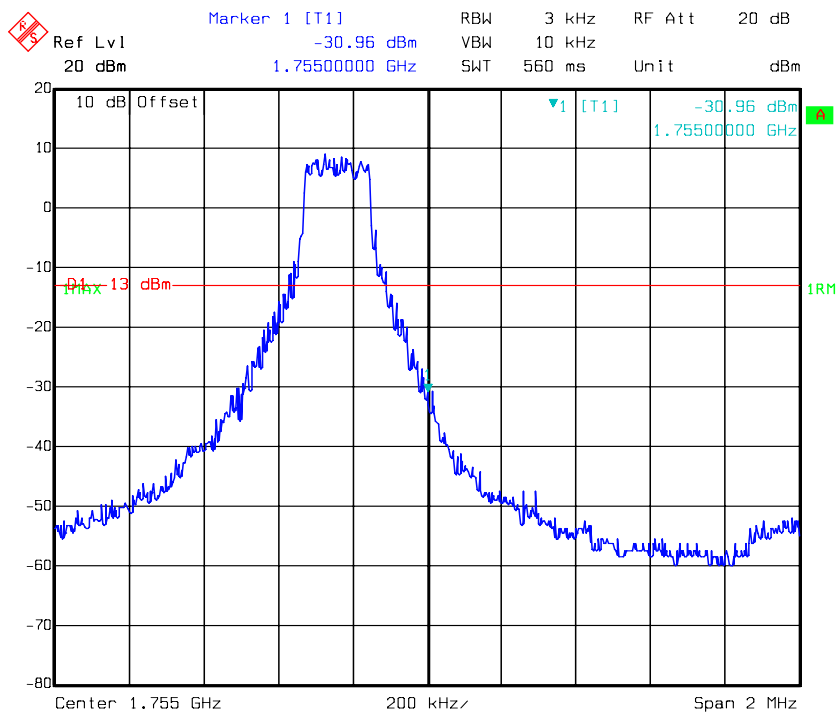


QPSK-3M 1RB, Left Band Edge



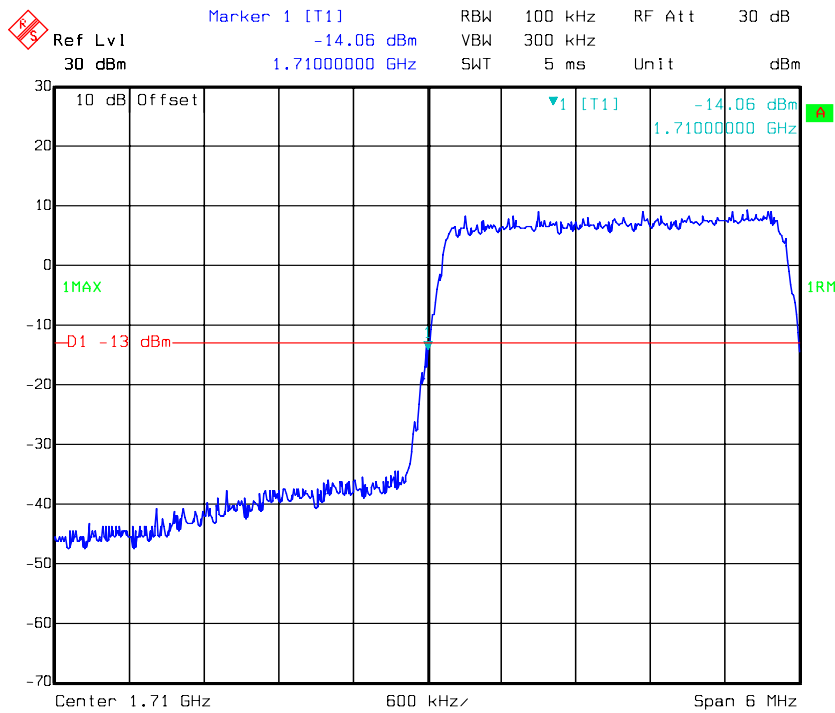
Date: 02.DEC.2015 21:14:29

QPSK-3M 1RB, Right Band Edge



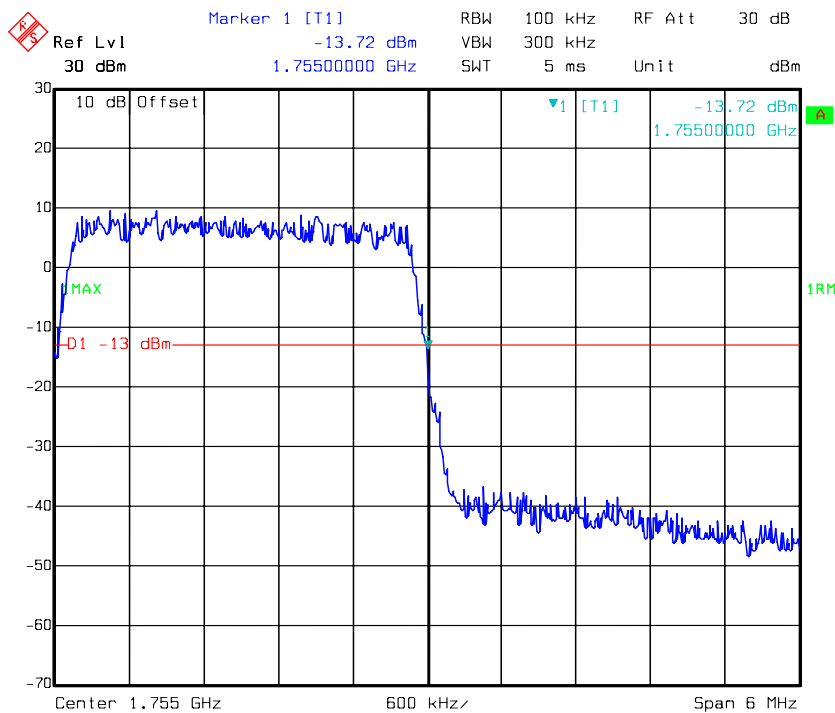
Date: 02.DEC.2015 21:13:48

QPSK-3M 15 RB, Left Band Edge



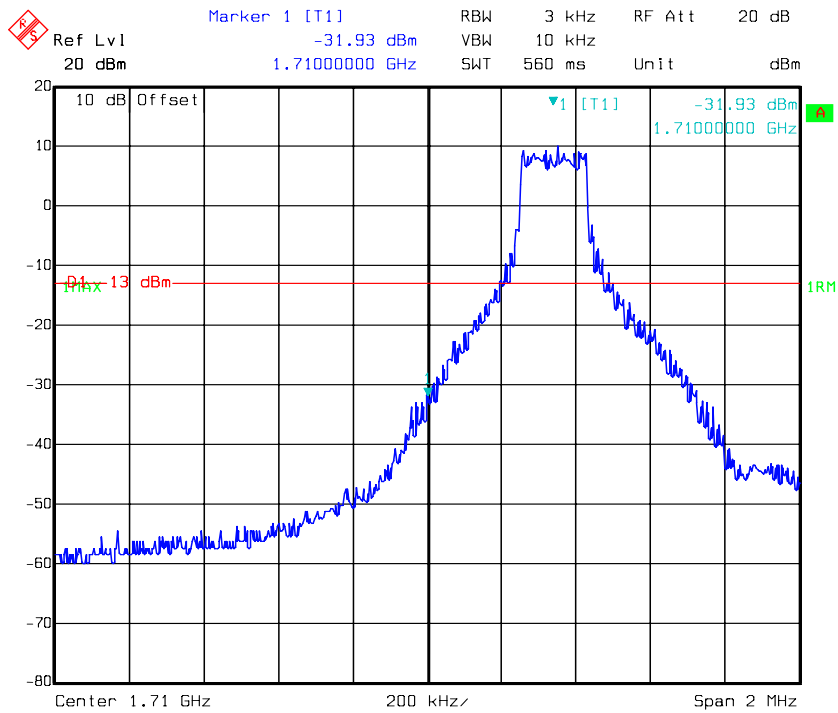
Date: 02.DEC.2015 21:03:13

QPSK-3M 15 RB, Right Band Edge



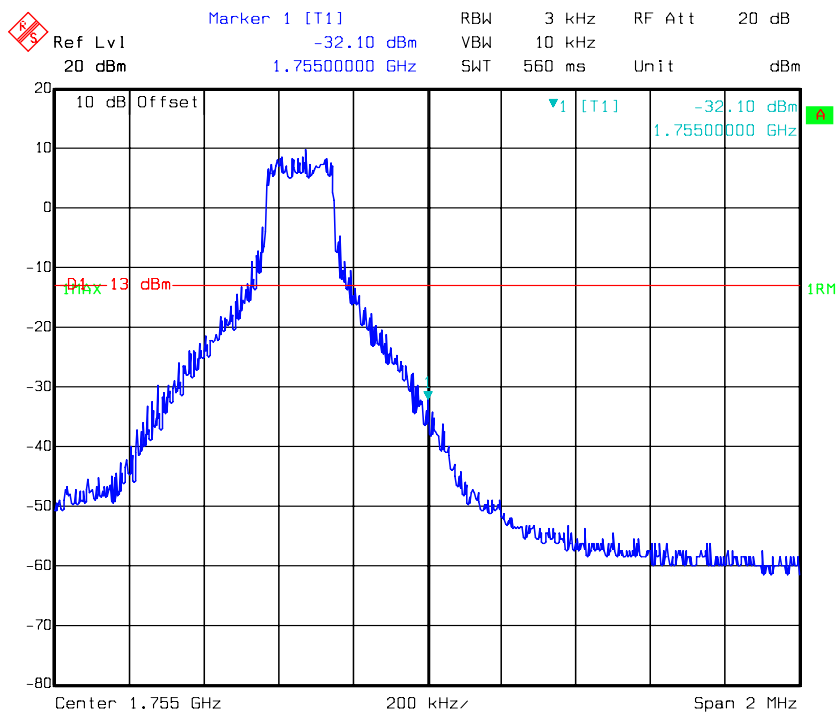
Date: 02.DEC.2015 21:04:33

QPSK-5M 1RB, Left Band Edge



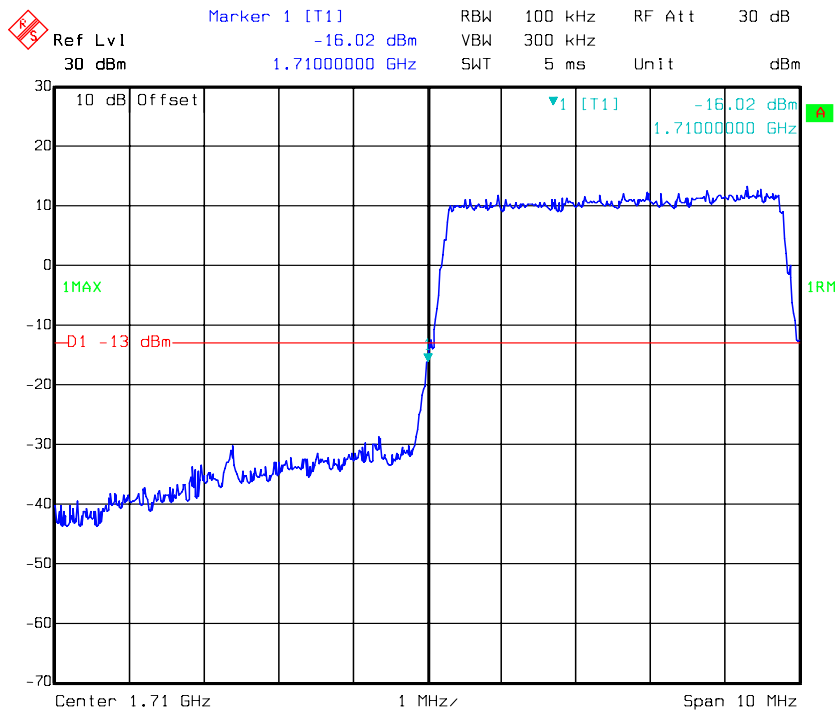
Date: 02.DEC.2015 21:16:47

QPSK-5M 1RB, Right Band Edge

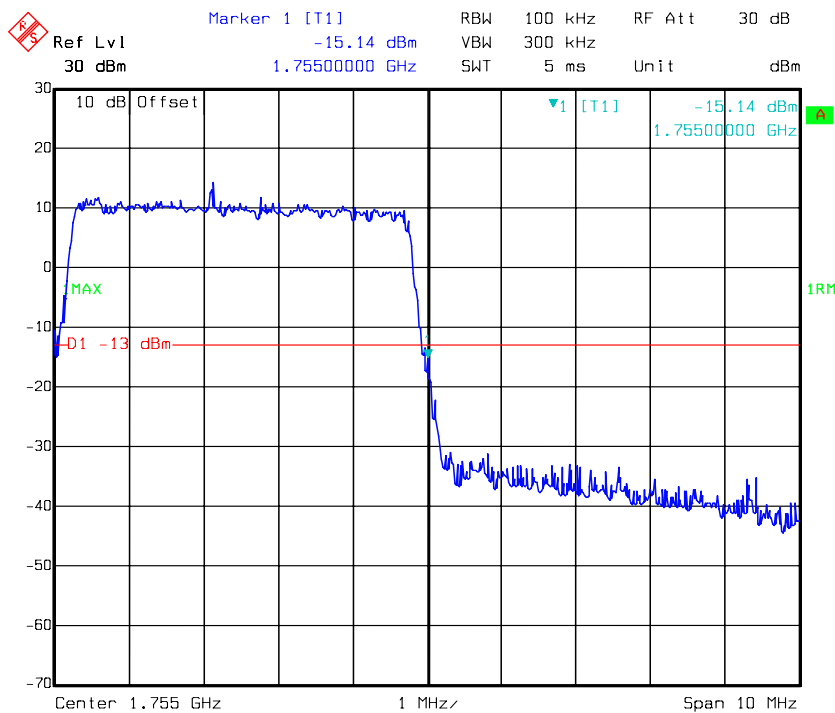


Date: 02.DEC.2015 21:17:27

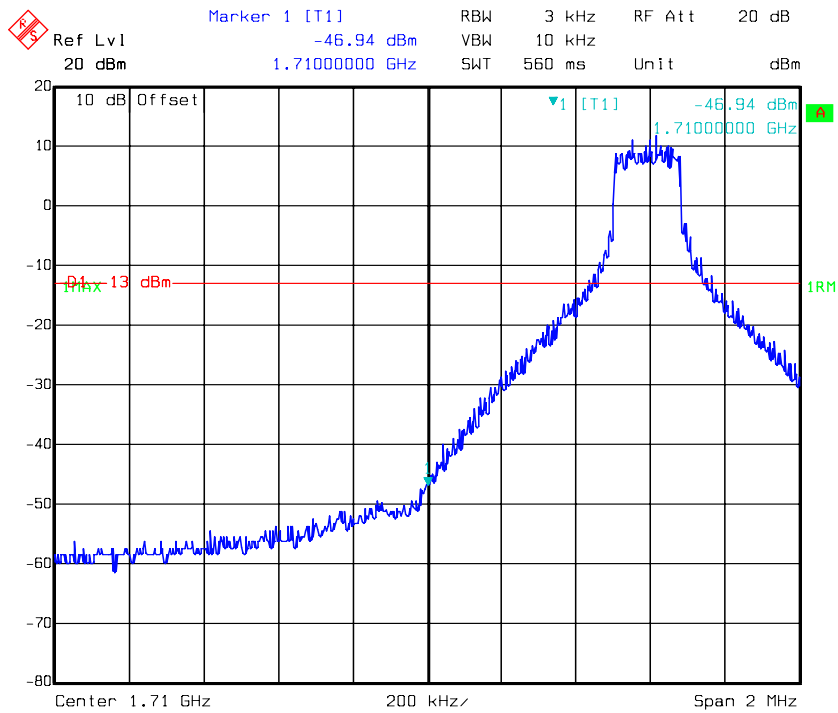
QPSK-5M 25 RB, Left Band Edge



QPSK-5M 25 RB, Right Band Edge

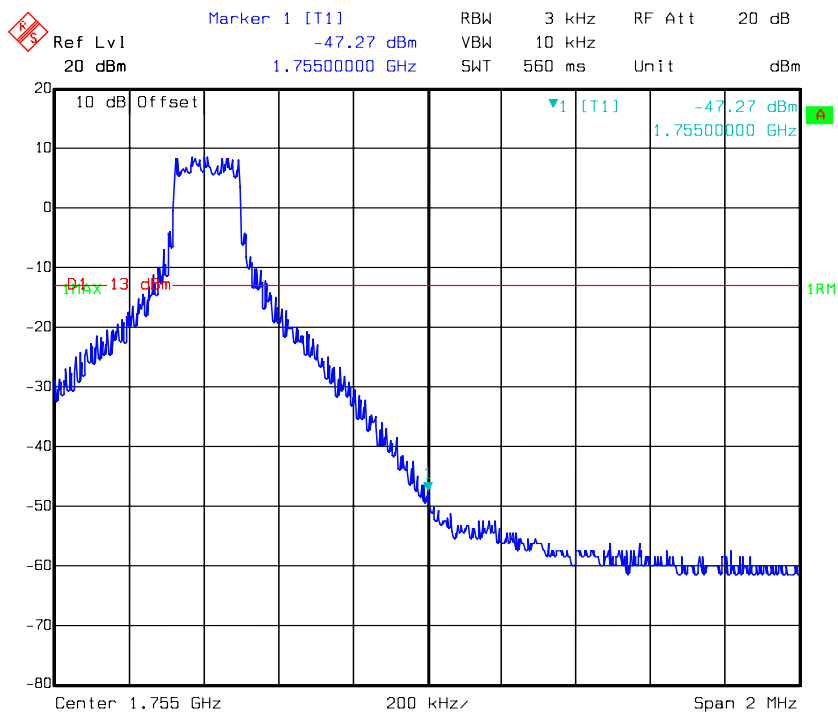


QPSK-10M 1RB, Left Band Edge



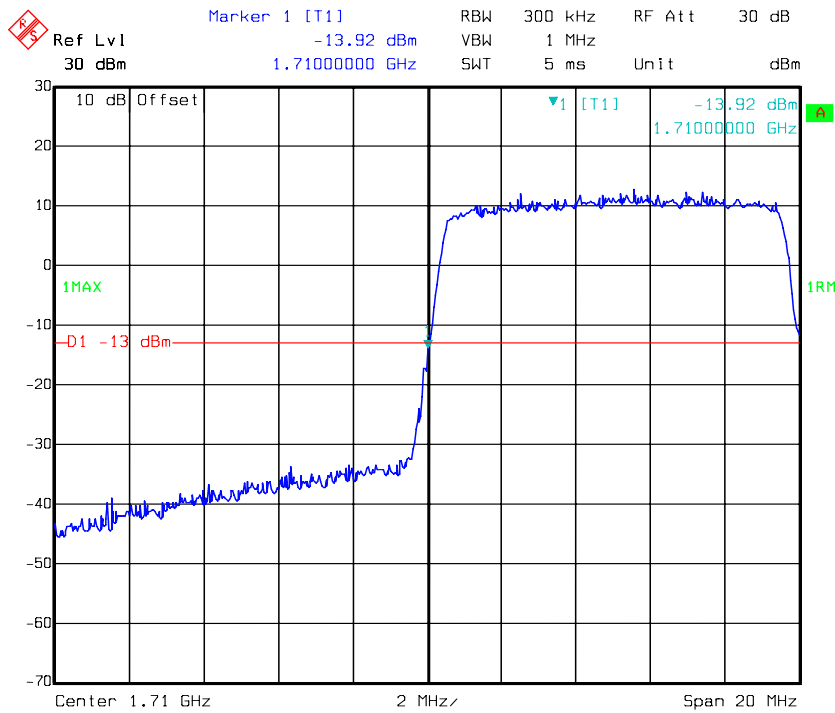
Date: 02.DEC.2015 21:20:35

QPSK-10M 1RB, Right Band Edge

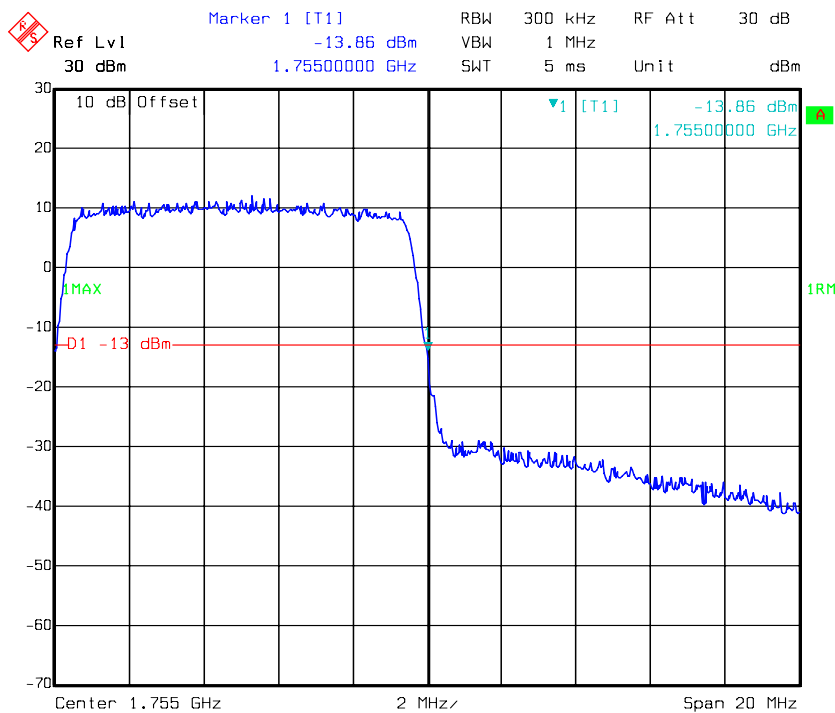


Date: 02.DEC.2015 21:19:44

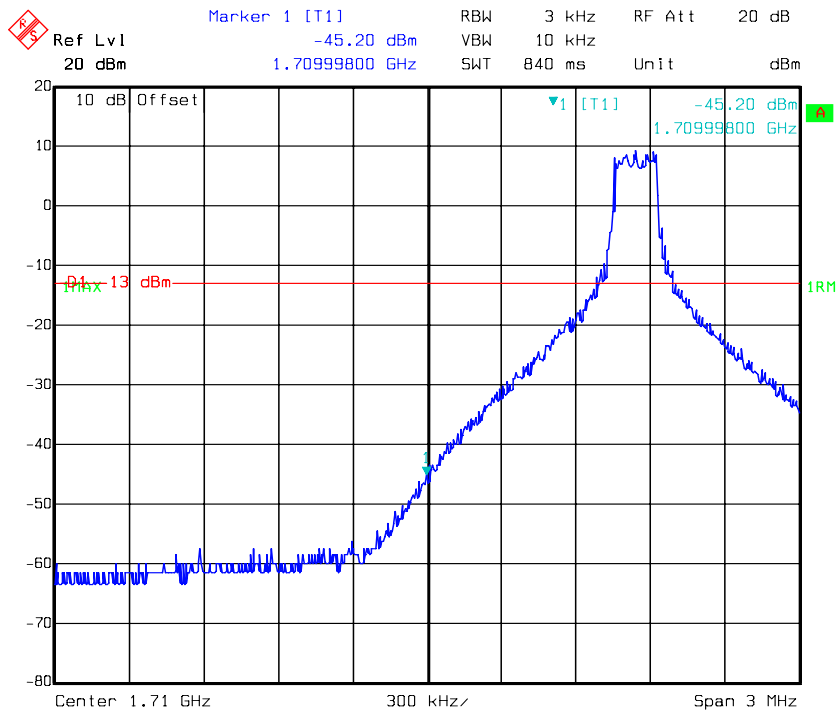
QPSK-10M 50 RB, Left Band Edge



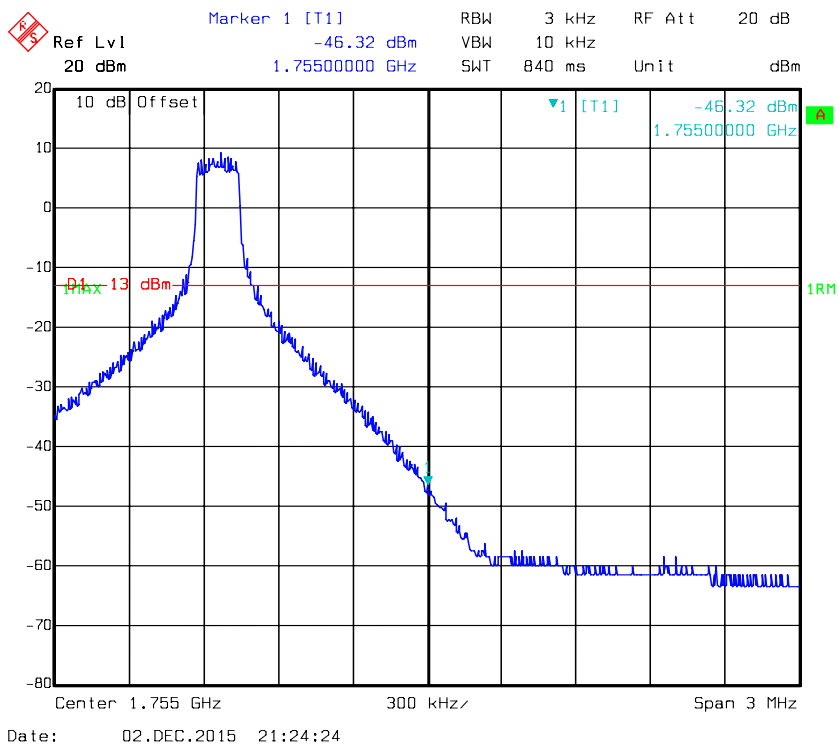
QPSK-10M 50 RB, Right Band Edge



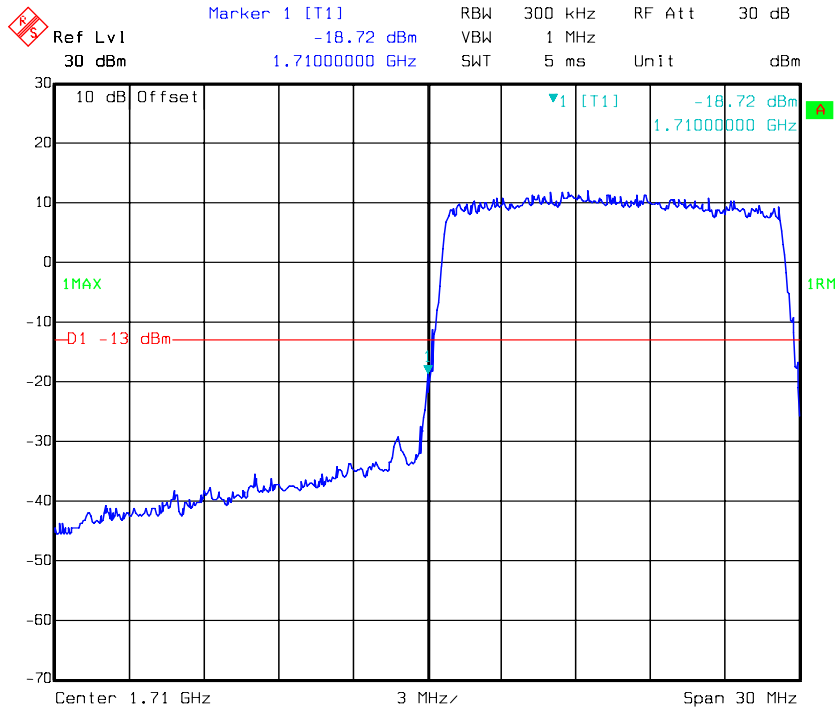
QPSK-15M 1RB, Left Band Edge



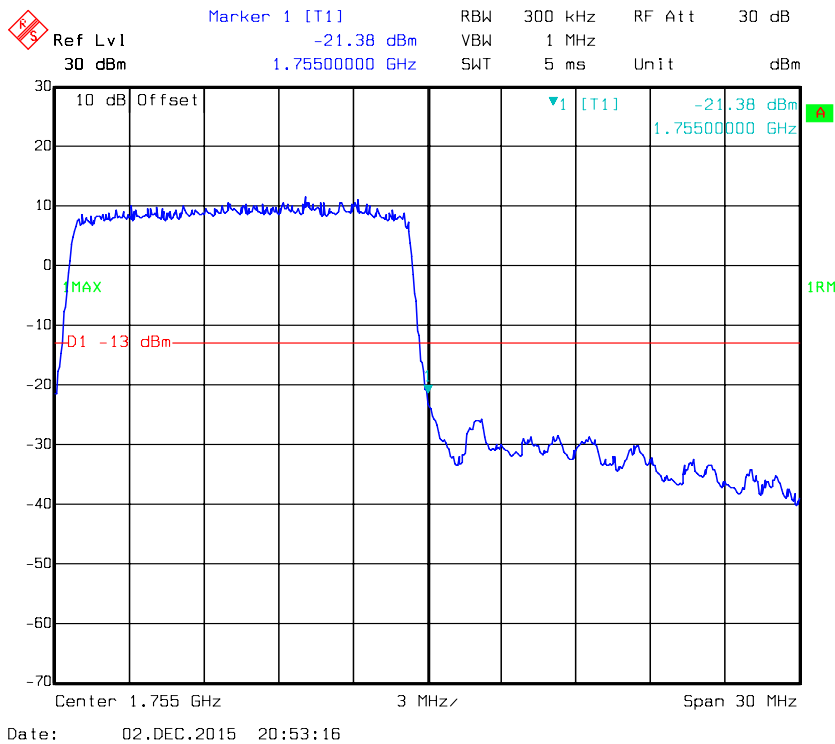
QPSK-15M 1RB, Right Band Edge



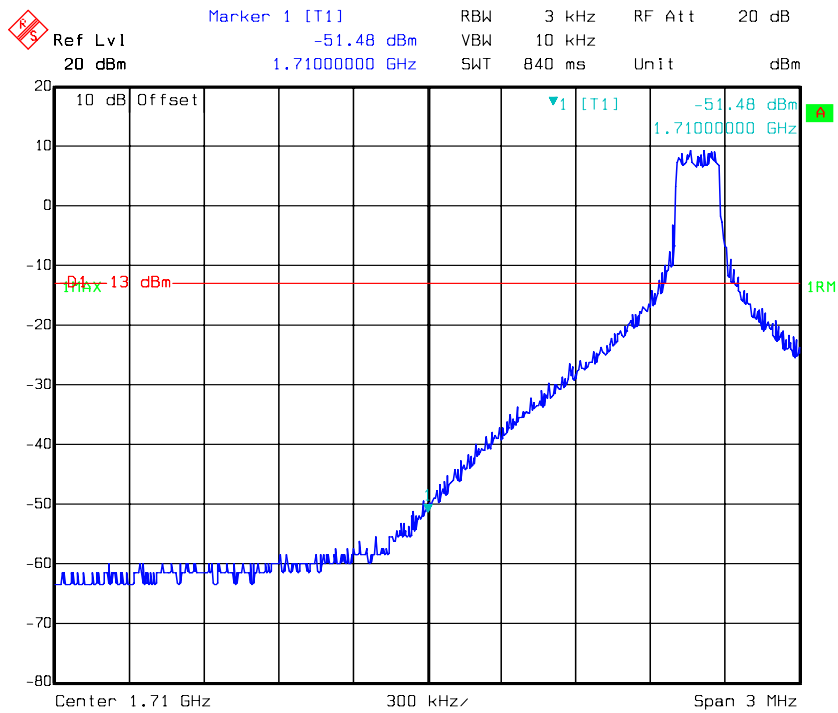
QPSK-15M 75 RB, Left Band Edge



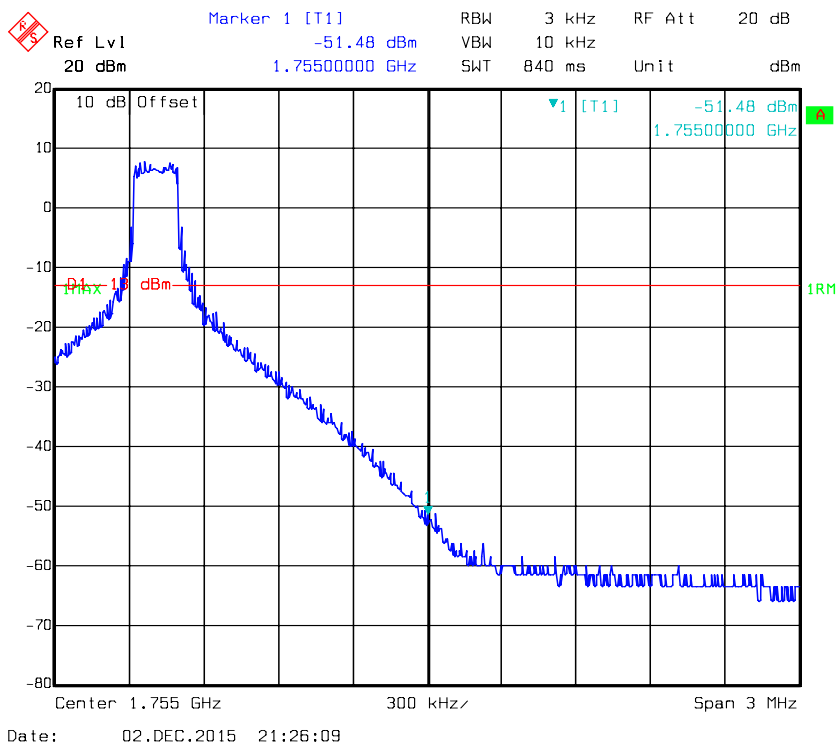
QPSK-15M 75 RB, Right Band Edge



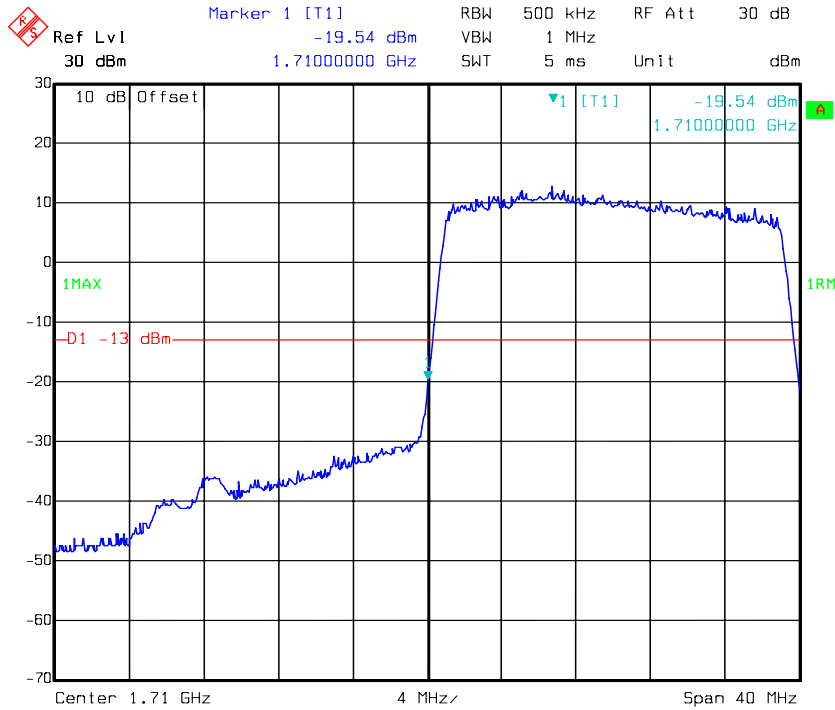
QPSK-20M 1RB, Left Band Edge



QPSK-20M 1RB, Right Band Edge

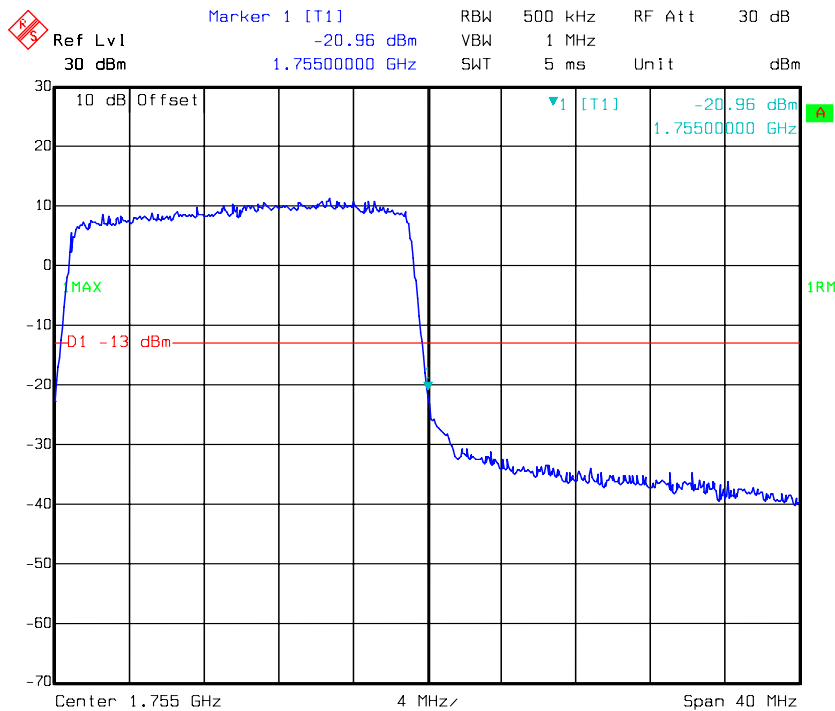


QPSK-20M 100 RB, Left Band Edge



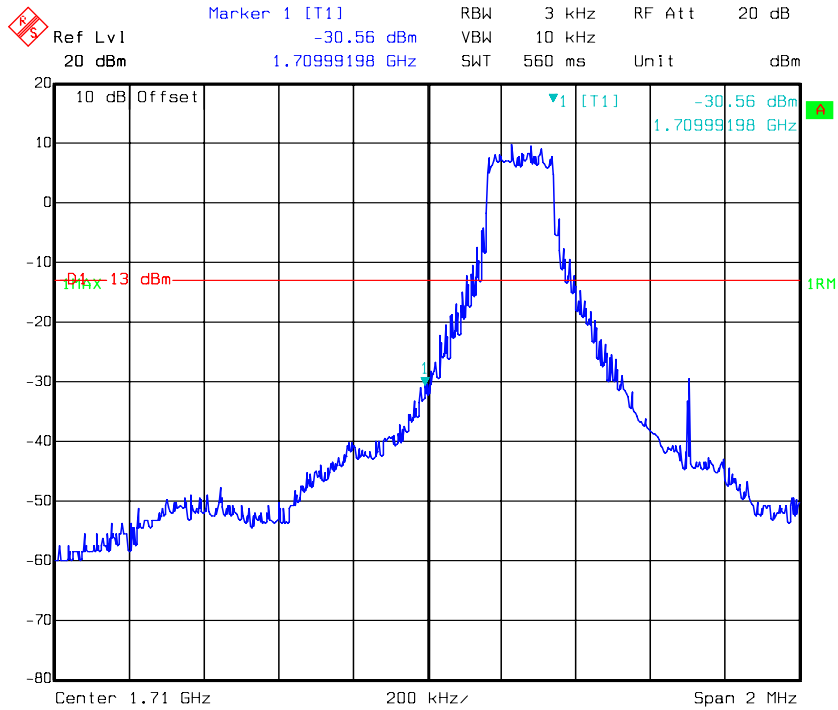
Date: 02.DEC.2015 20:50:38

QPSK-20M 100 RB, Right Band Edge



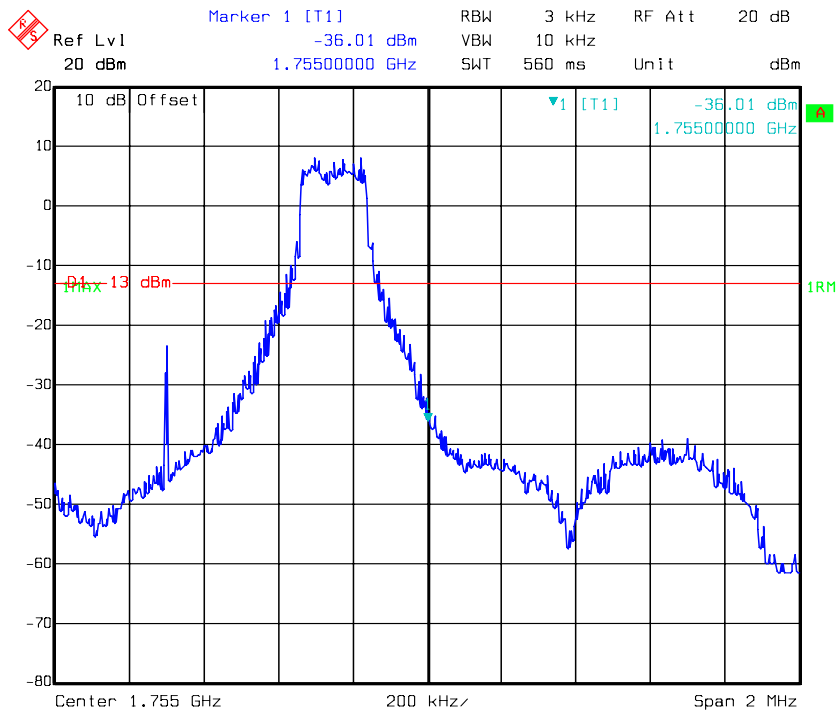
Date: 02.DEC.2015 20:51:57

16QAM -1.4M 1RB, Left Band Edge



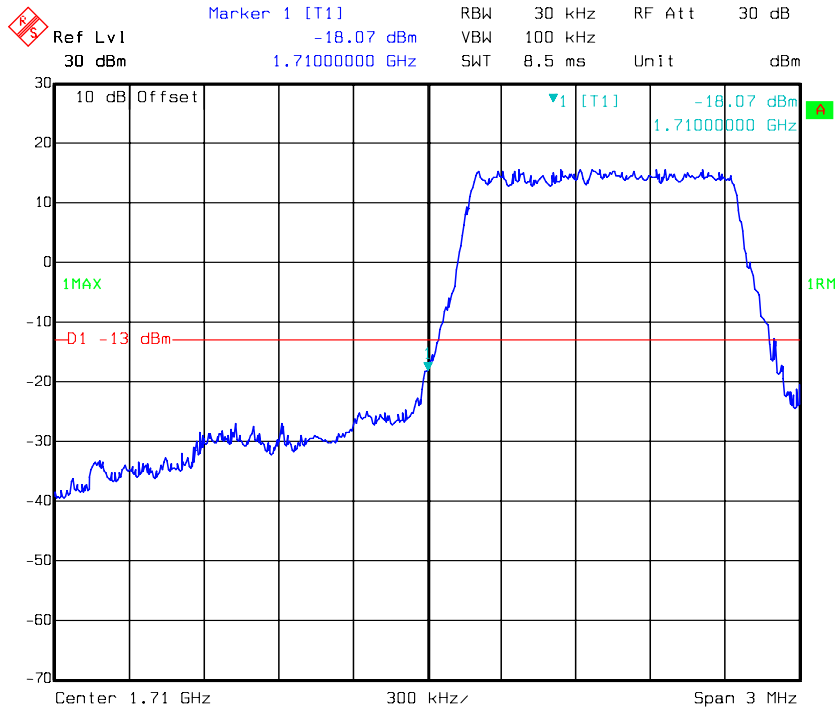
Date: 02.DEC.2015 21:10:30

16QAM -1.4M 1RB, Right Band Edge



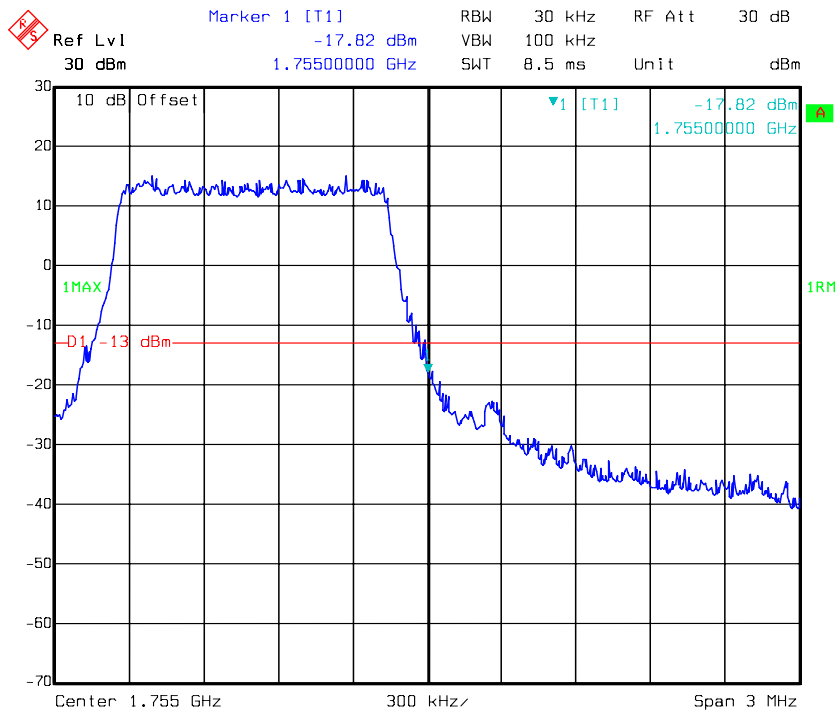
Date: 02.DEC.2015 21:11:50

16QAM -1.4M 6 RB, Left Band Edge



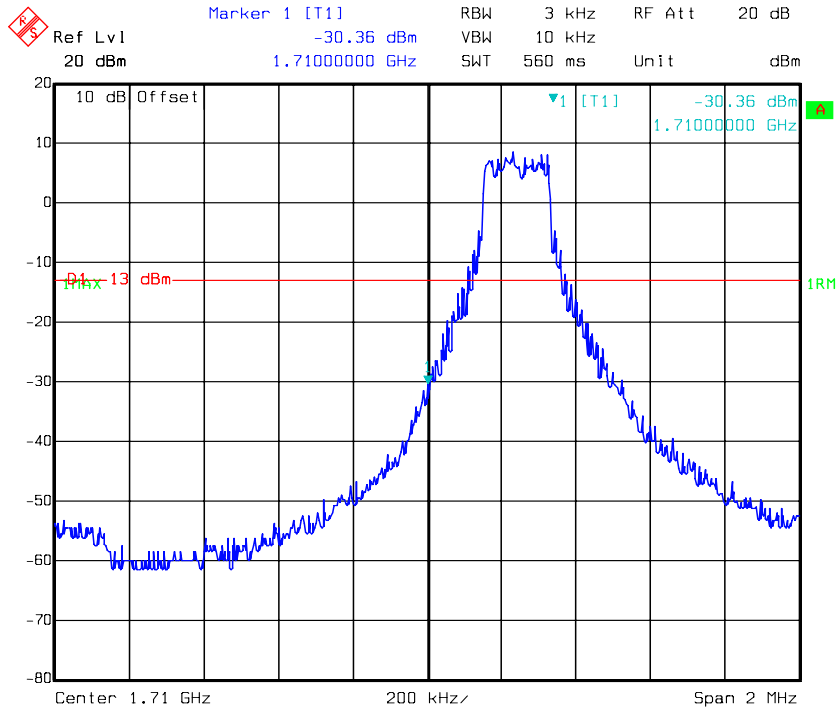
Date: 02.DEC.2015 21:08:00

16QAM -1.4M 6 RB, Right Band Edge

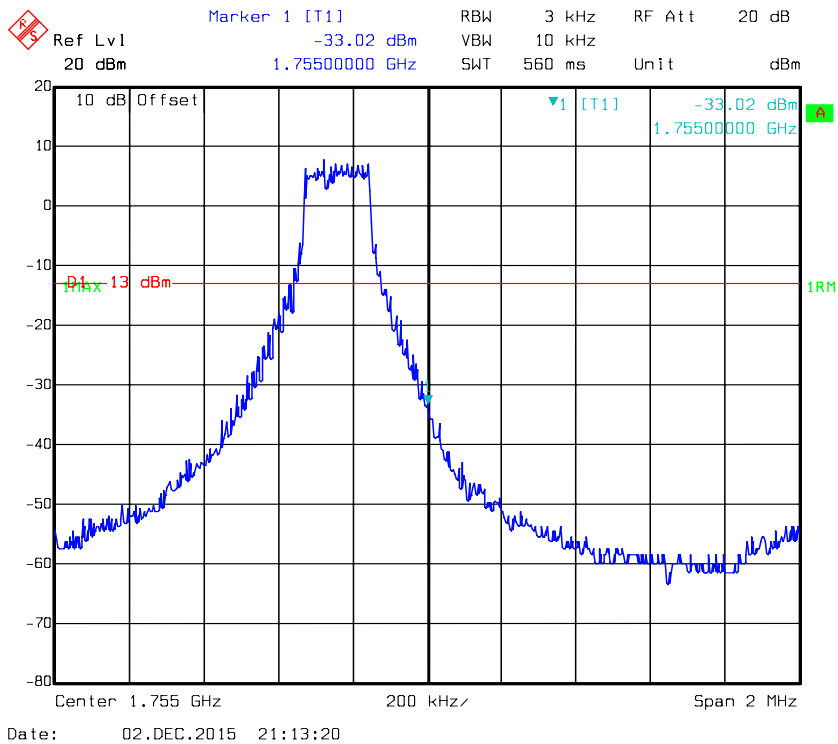


Date: 02.DEC.2015 21:06:29

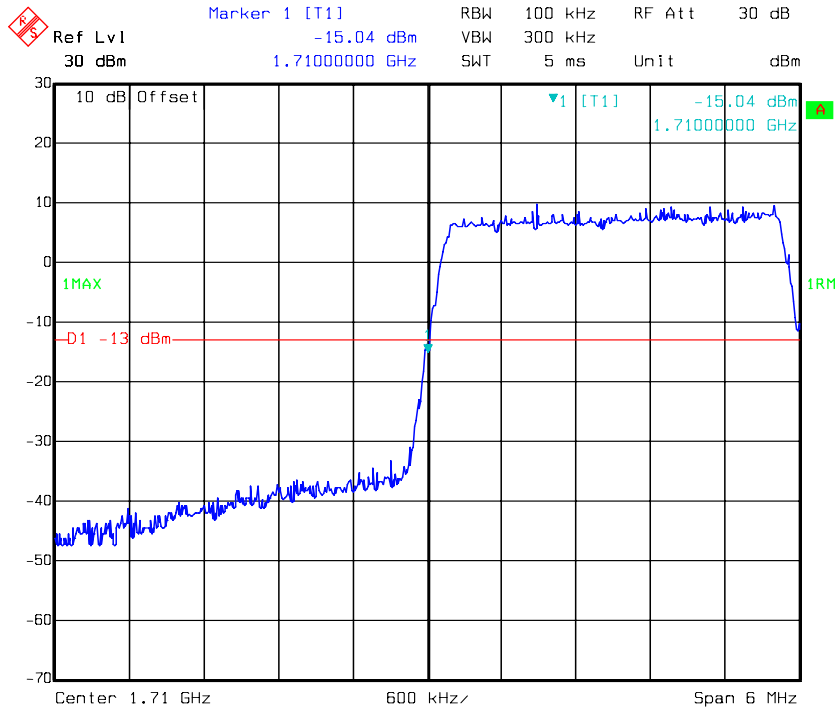
16QAM -3M 1RB, Left Band Edge



16QAM -3M 1RB, Right Band Edge

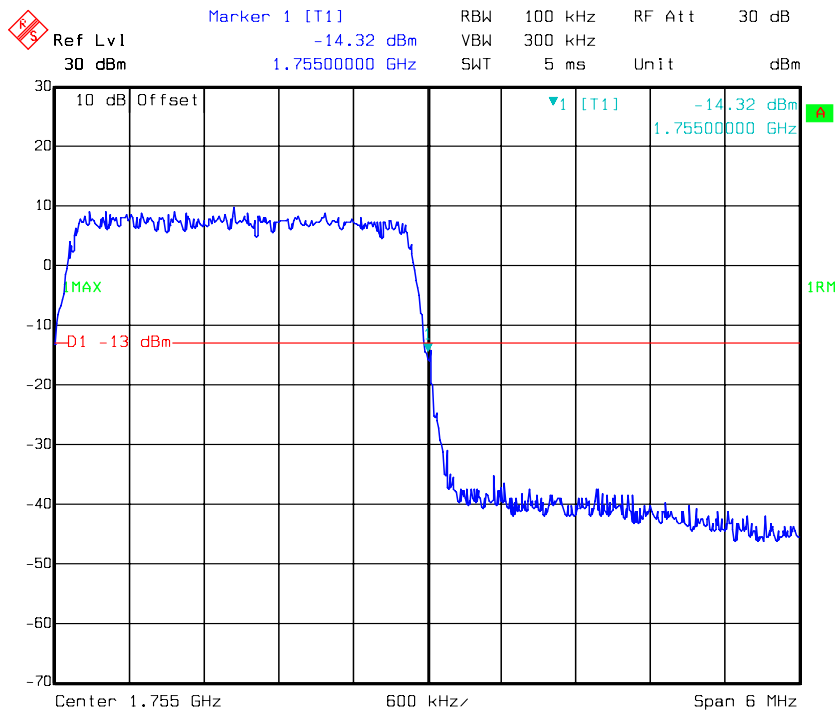


16QAM -3M 15 RB, Left Band Edge



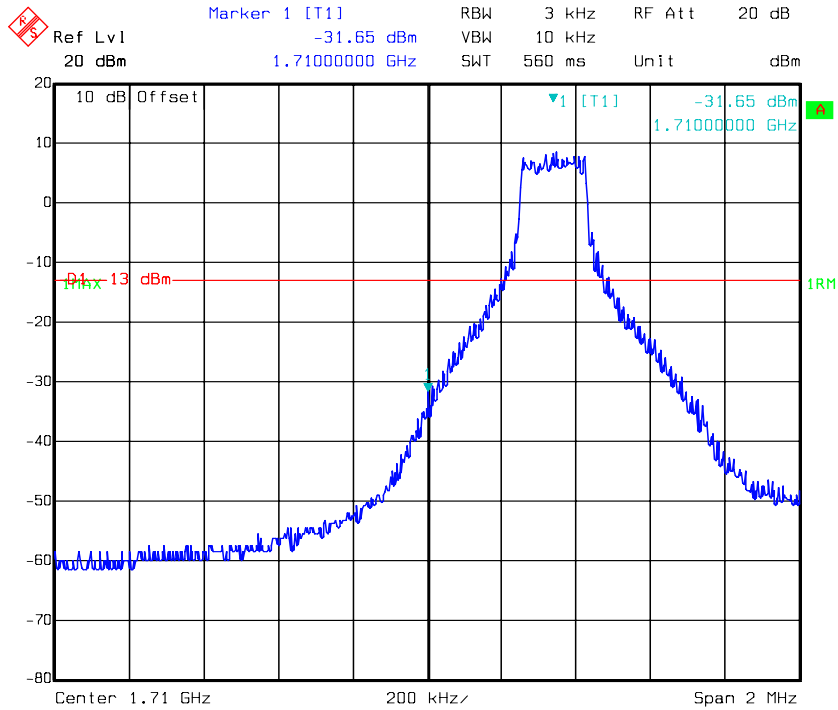
Date: 02.DEC.2015 21:03:33

16QAM -3M 15 RB, Right Band Edge



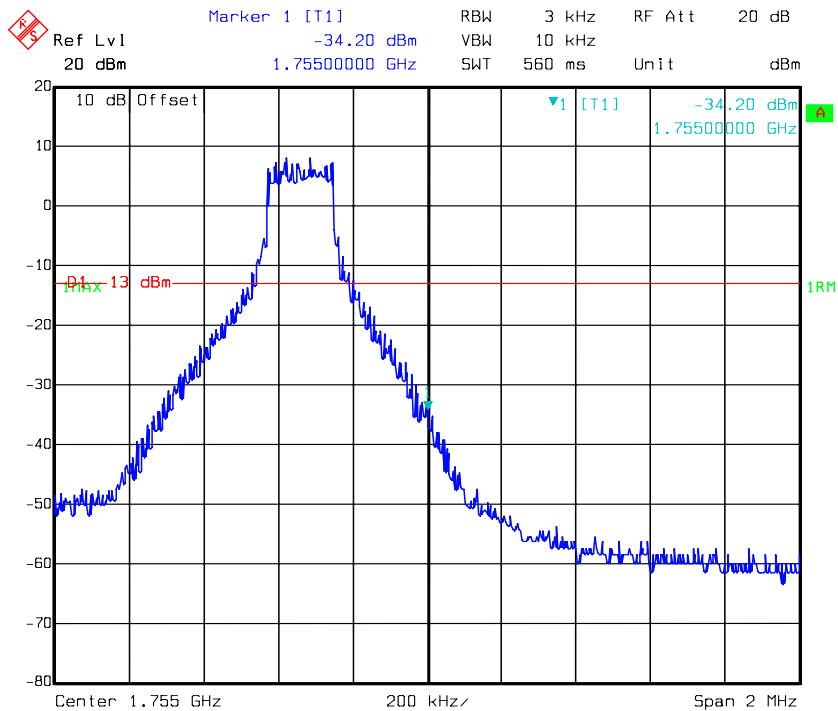
Date: 02.DEC.2015 21:04:49

16QAM -5M 1RB, Left Band Edge



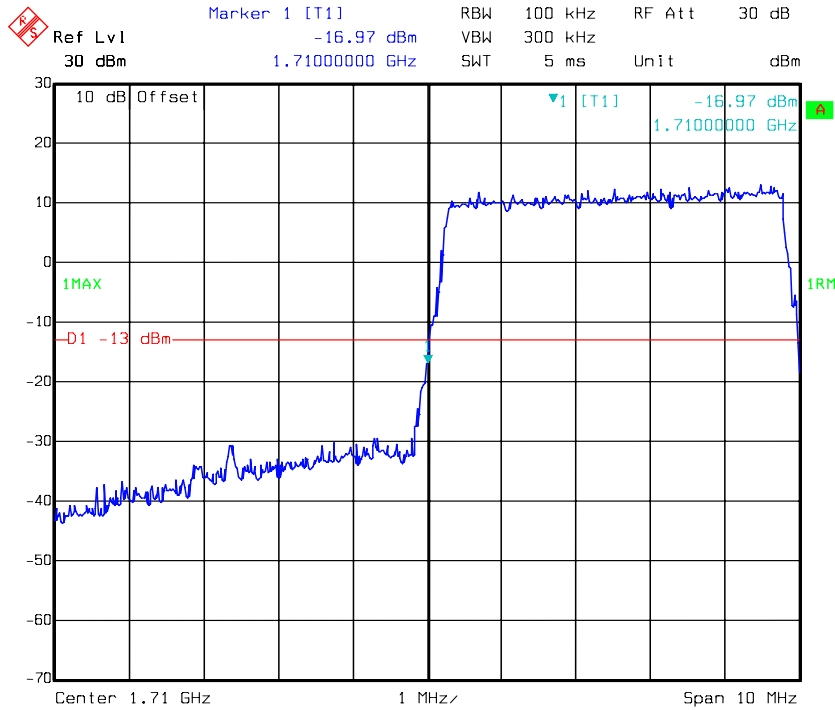
Date: 02.DEC.2015 21:15:54

16QAM -5M 1RB, Right Band Edge

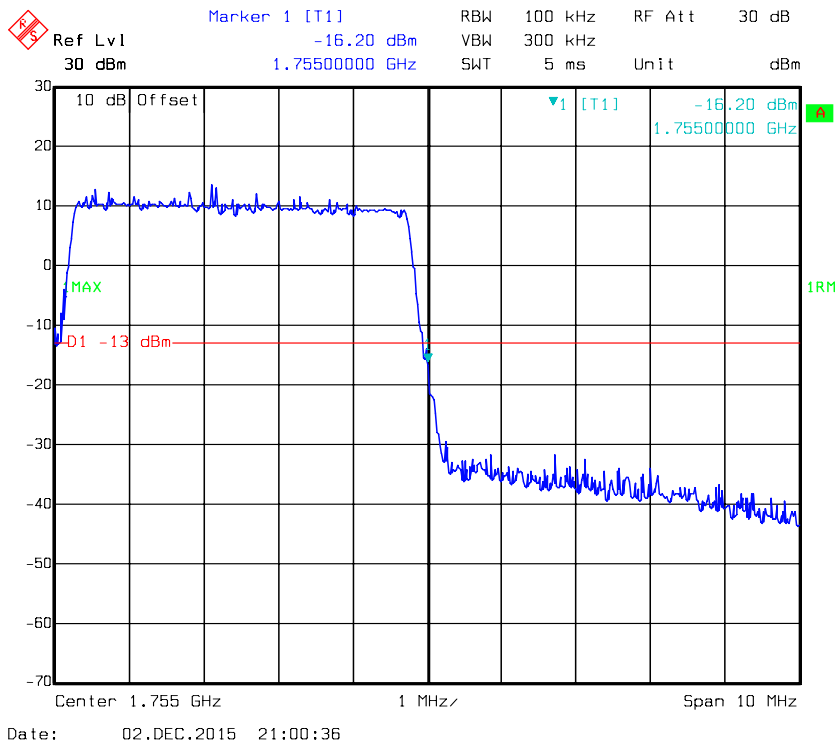


Date: 02.DEC.2015 21:17:48

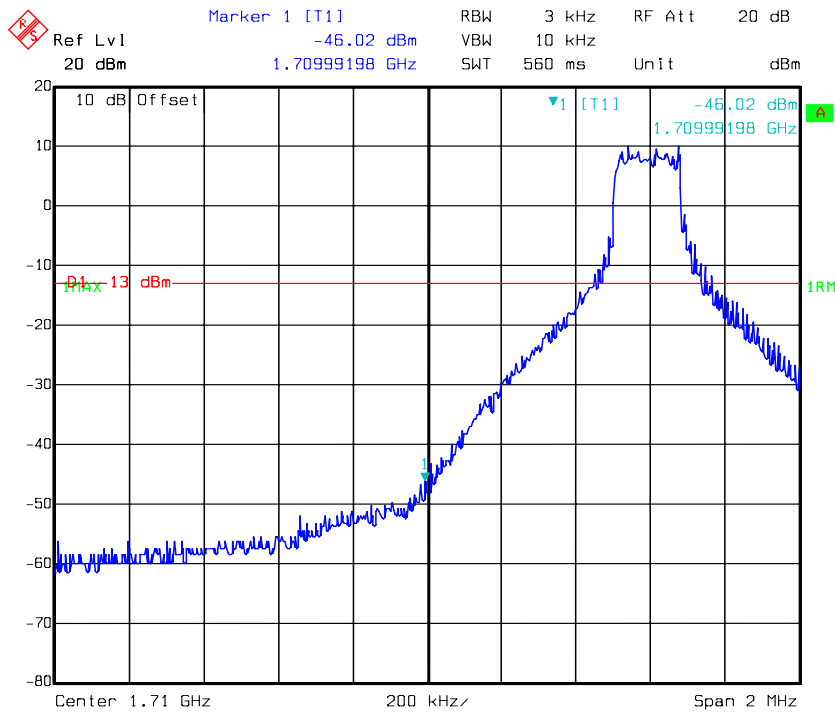
16QAM -5M 25 RB, Left Band Edge



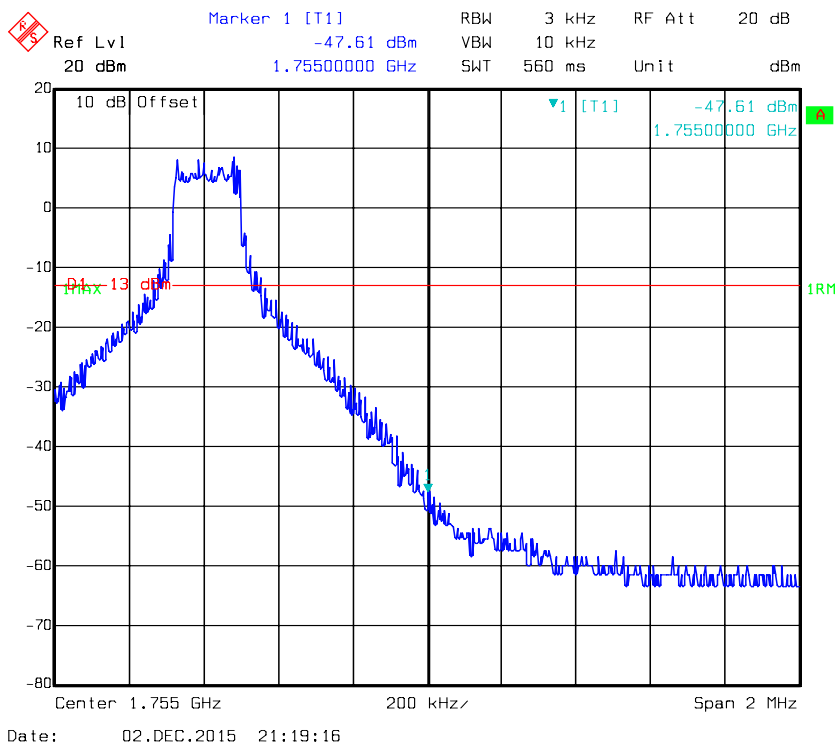
16QAM -5M 25 RB, Right Band Edge



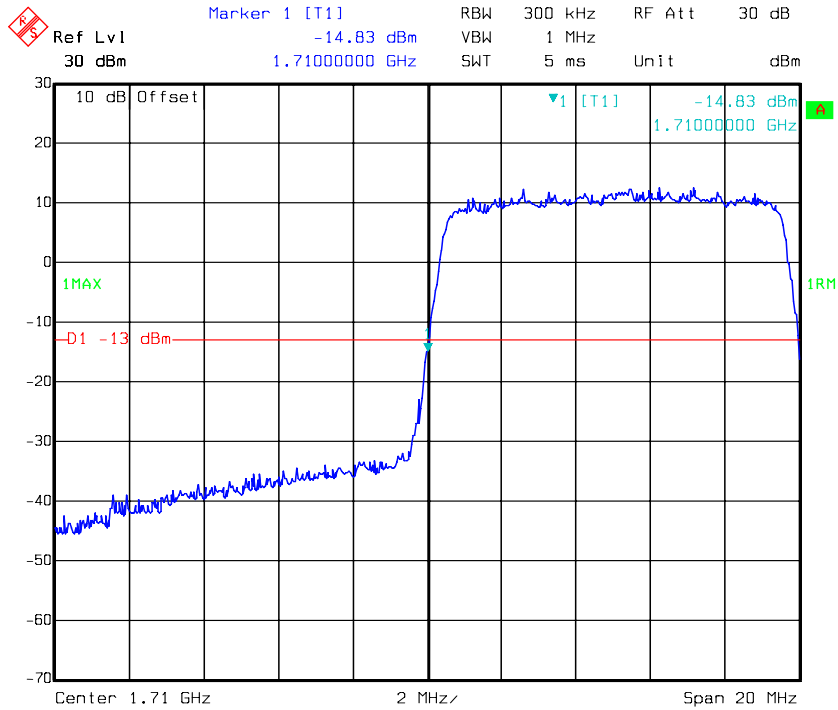
16QAM -10M 1RB, Left Band Edge



16QAM -10M 1RB, Right Band Edge

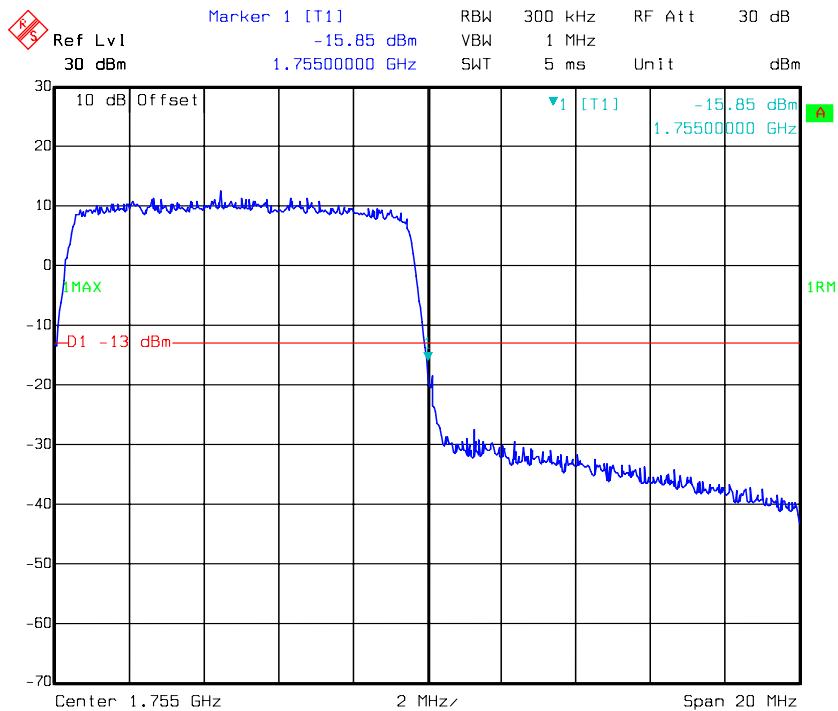


16QAM -10M 50 RB, Left Band Edge



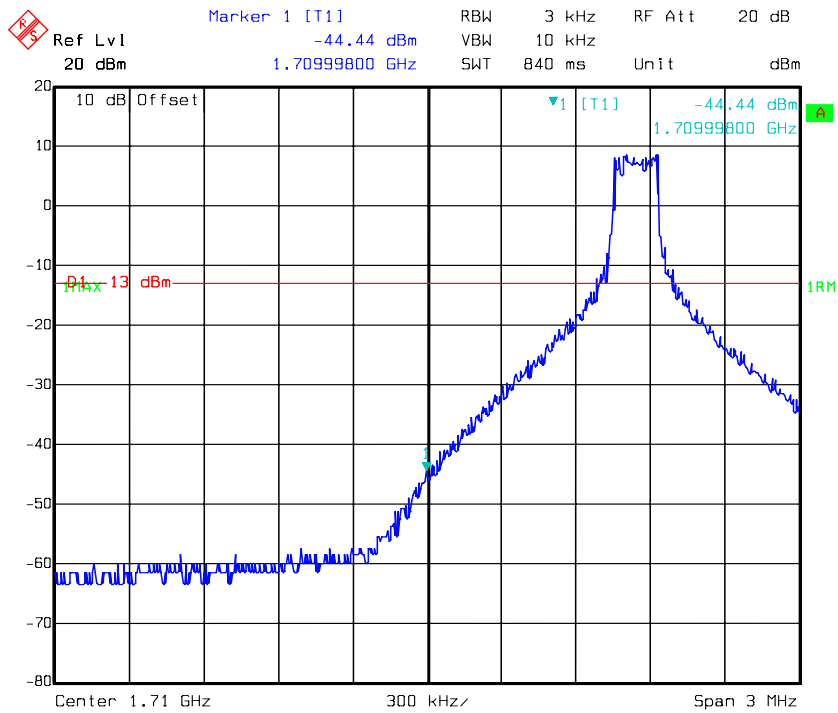
Date: 02.DEC.2015 20:57:14

16QAM -10M 50 RB, Right Band Edge

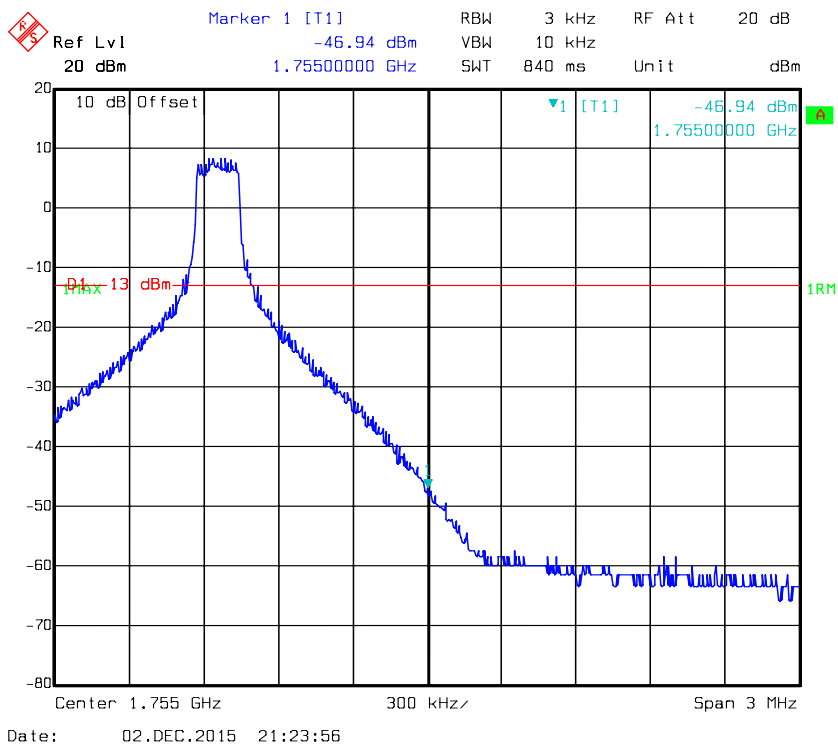


Date: 02.DEC.2015 20:58:19

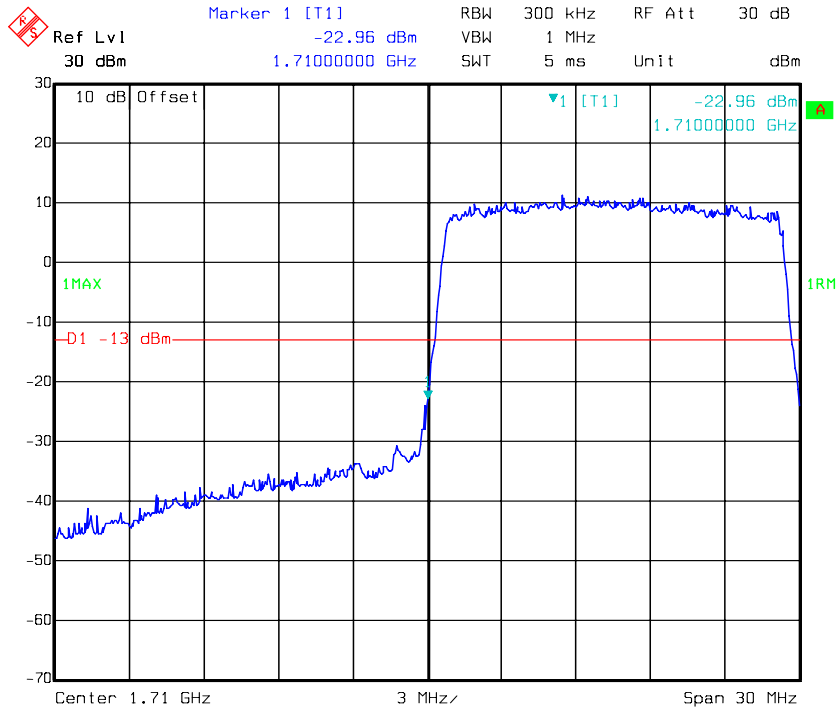
16QAM -15M 1RB, Left Band Edge



16QAM -15M 1RB, Right Band Edge

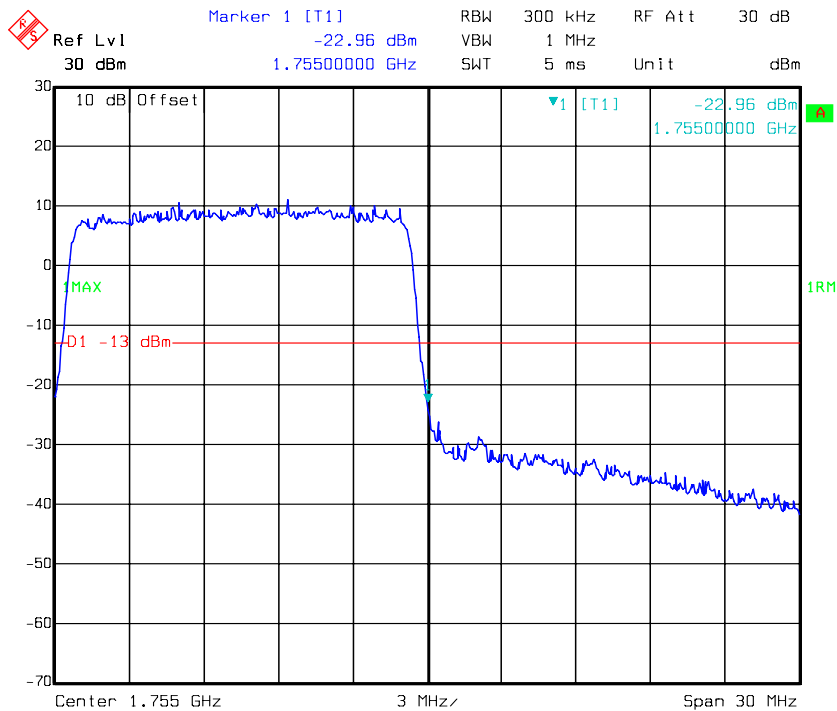


16QAM -15M 75 RB, Left Band Edge



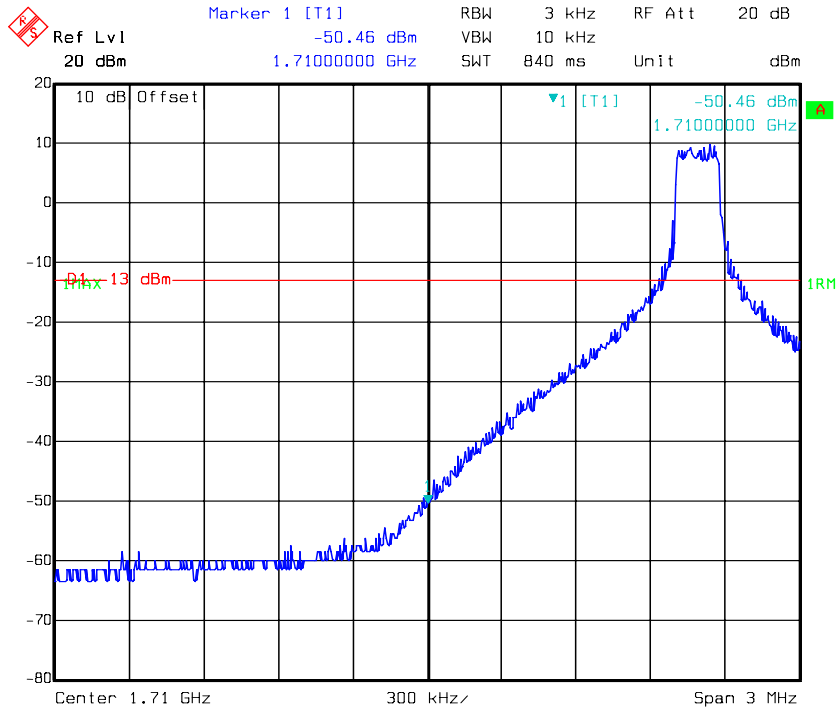
Date: 02.DEC.2015 20:55:40

16QAM -15M 75 RB, Right Band Edge

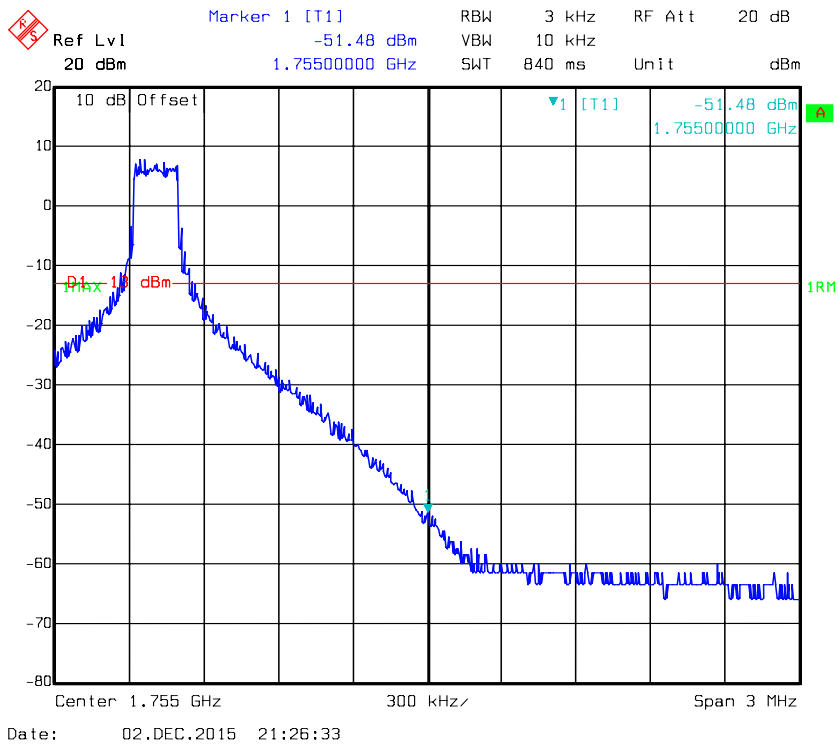


Date: 02.DEC.2015 20:53:54

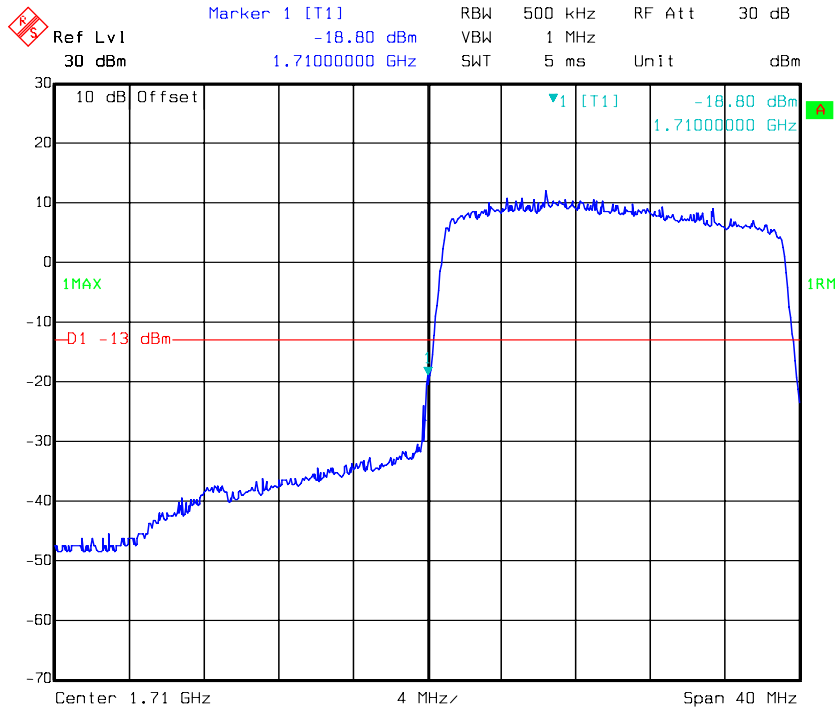
16QAM -20M 1RB, Left Band Edge



16QAM -20M 1RB, Right Band Edge

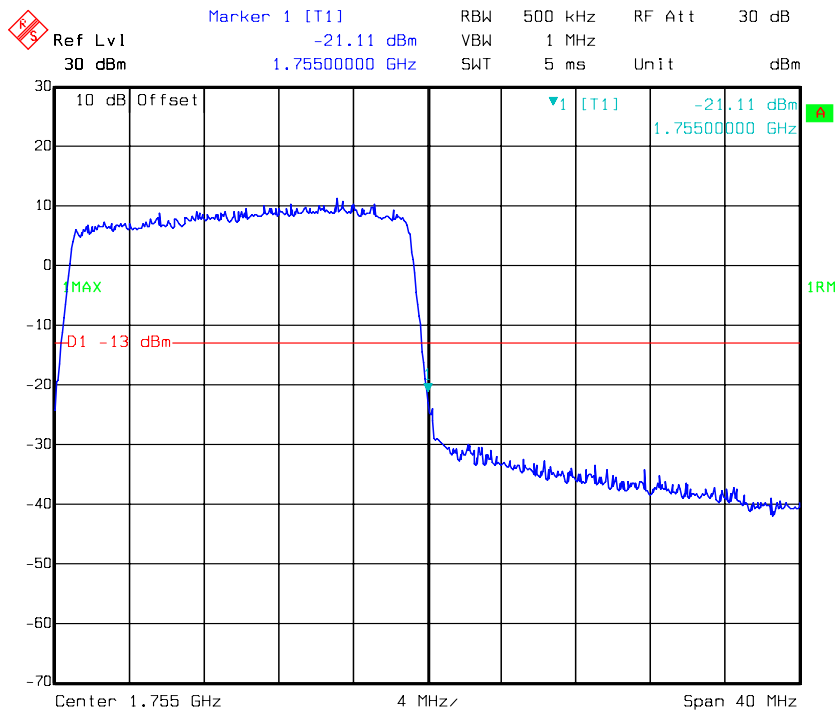


16QAM -20M 100 RB, Left Band Edge



Date: 02.DEC.2015 20:50:55

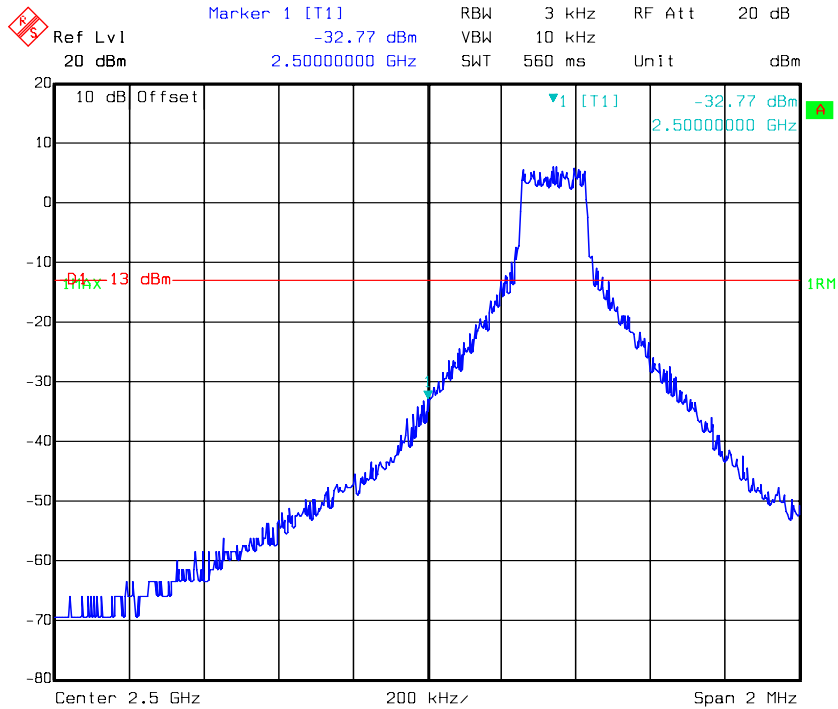
16QAM-20M 100 RB, Right Band Edge



Date: 02.DEC.2015 20:51:31

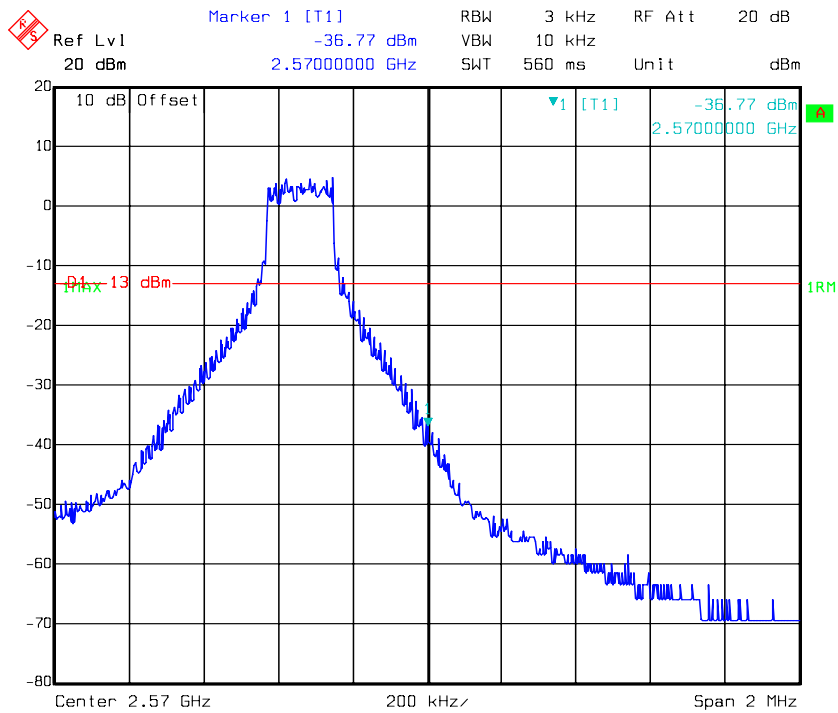
LTE Band 7:

QPSK-5M 1RB, Left Band Edge



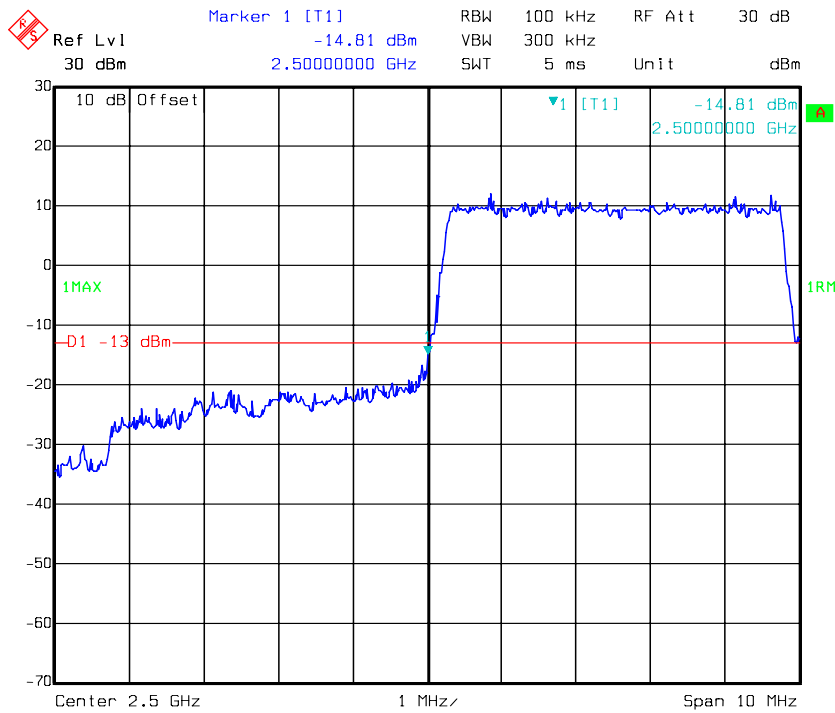
Date: 02.DEC.2015 19:42:38

QPSK-5M 1RB, Right Band Edge



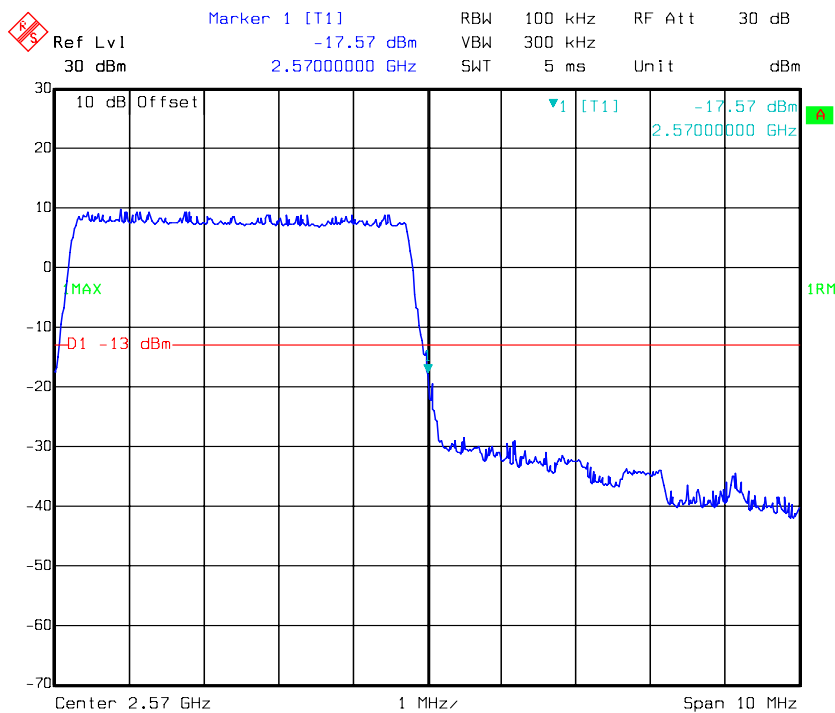
Date: 02.DEC.2015 19:44:45

QPSK-5M Full RB, Left Band Edge



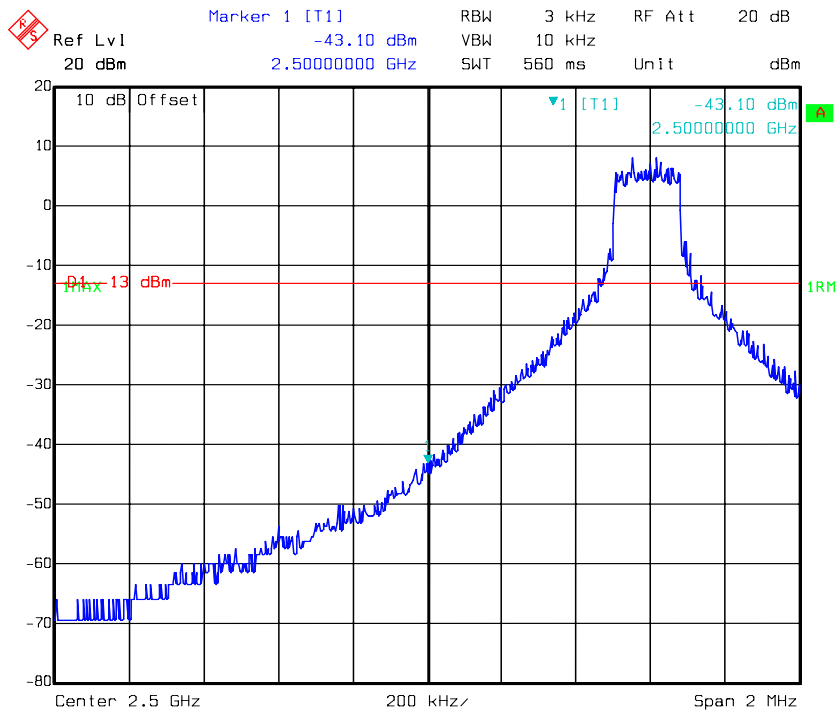
Date: 02.DEC.2015 20:14:10

QPSK-5M Full RB, Right Band Edge



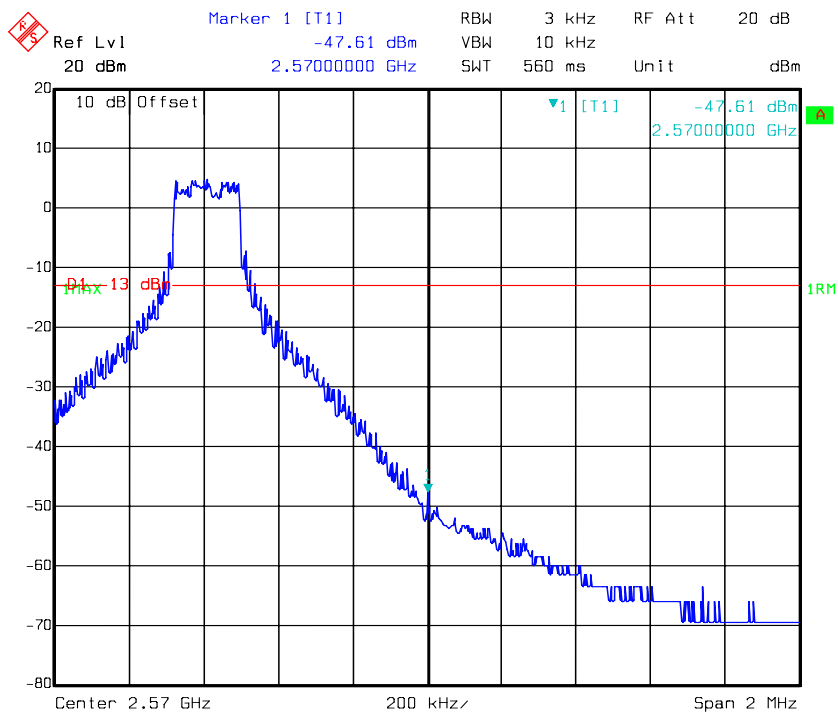
Date: 02.DEC.2015 20:13:48

QPSK-10M 1RB, Left Band Edge



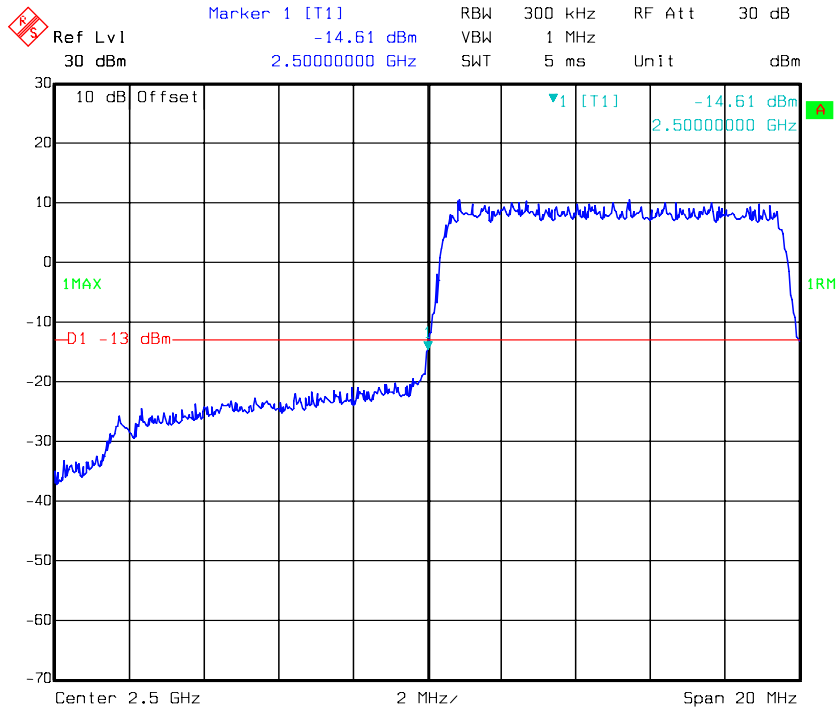
Date: 02.DEC.2015 19:50:04

QPSK-10M 1RB, Right Band Edge



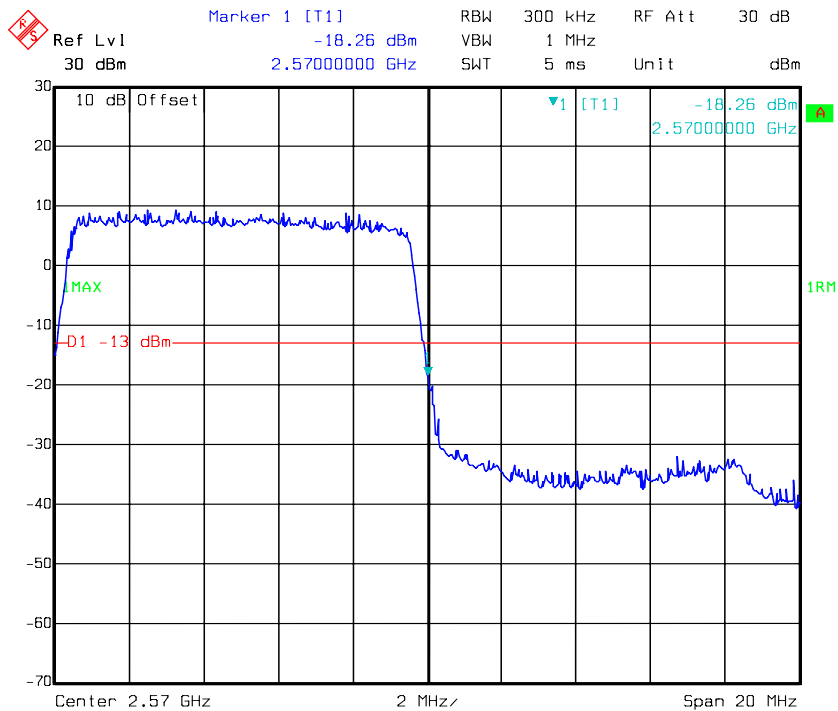
Date: 02.DEC.2015 19:47:01

QPSK-10M Full RB, Left Band Edge



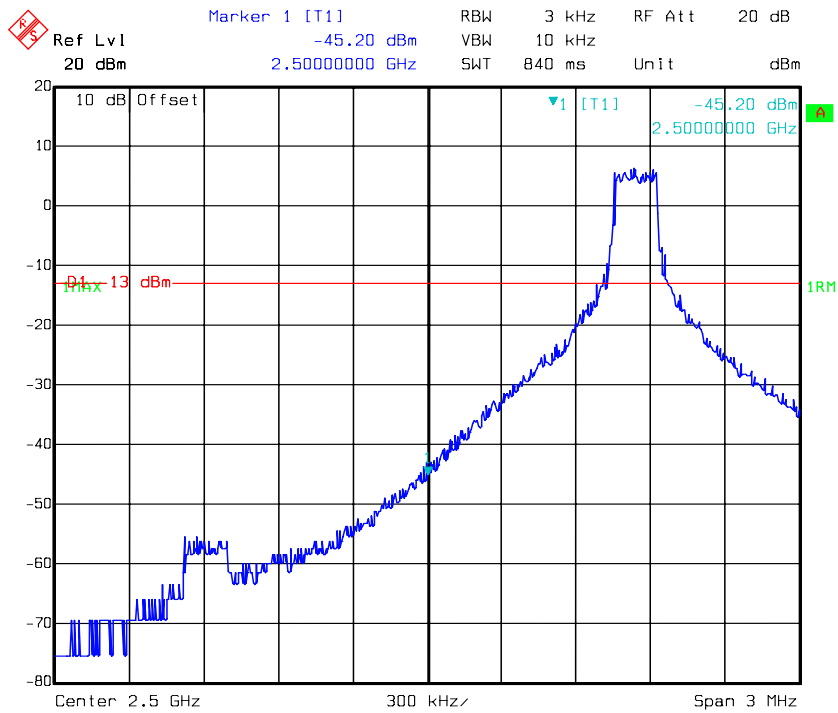
Date: 02.DEC.2015 20:08:22

QPSK-10M Full RB, Right Band Edge



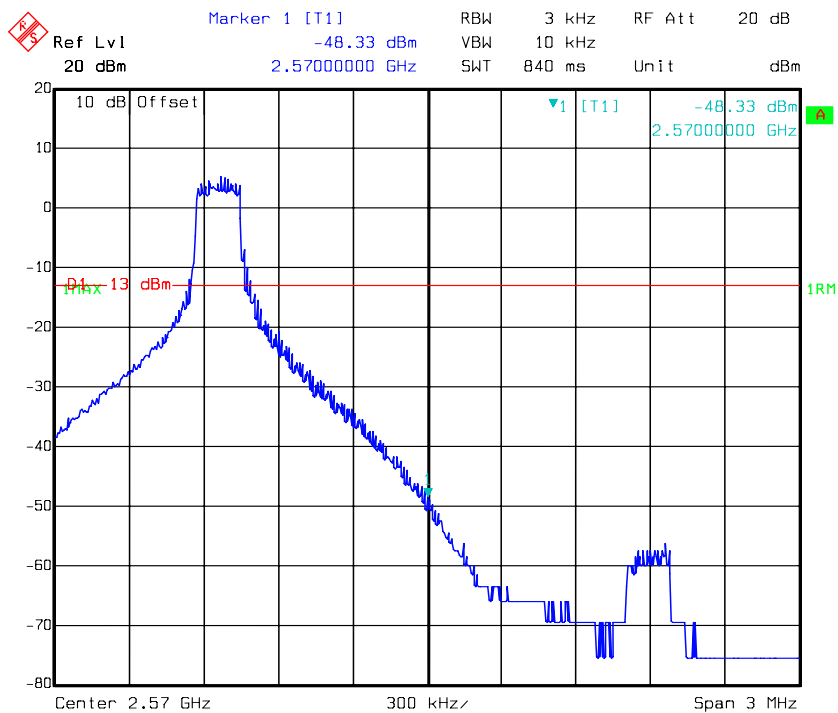
Date: 02.DEC.2015 20:10:43

QPSK-15M 1RB, Left Band Edge



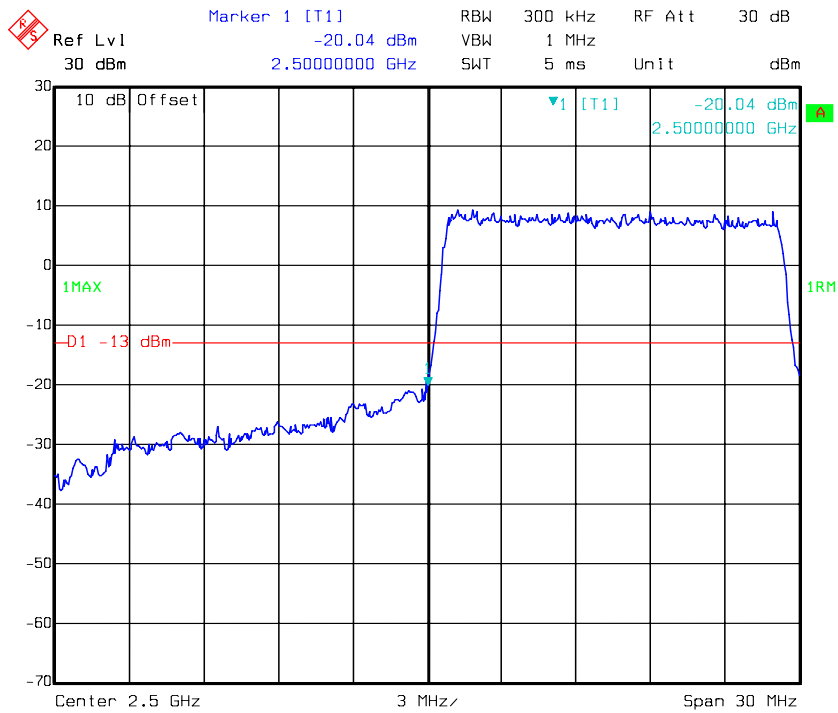
Date: 02.DEC.2015 19:51:34

QPSK-15M 1RB, Right Band Edge



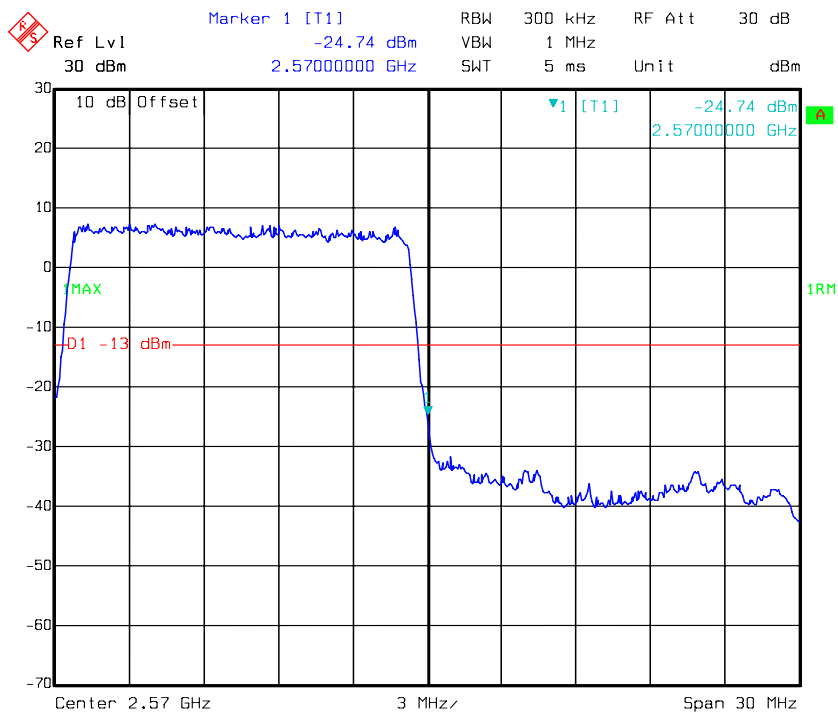
Date: 02.DEC.2015 19:54:44

QPSK-15M Full RB, Left Band Edge



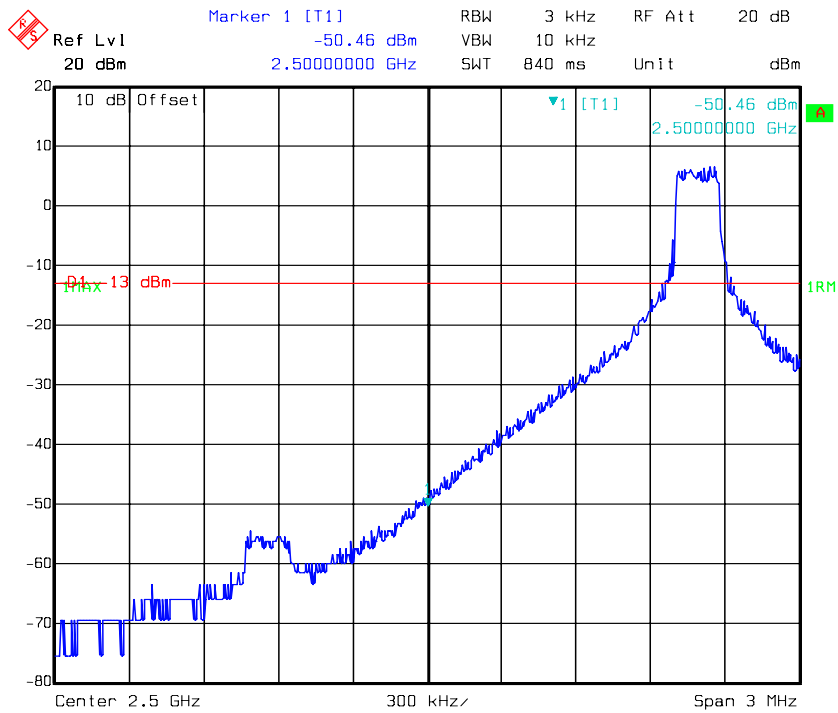
Date: 02.DEC.2015 20:07:26

QPSK-15M Full RB, Right Band Edge



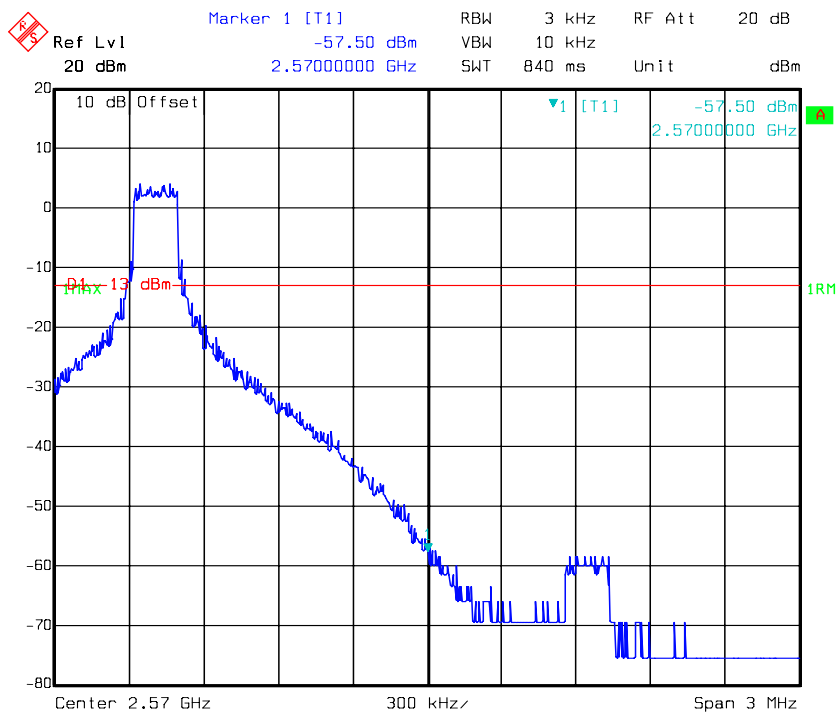
Date: 02.DEC.2015 20:04:45

QPSK-20M 1RB, Left Band Edge



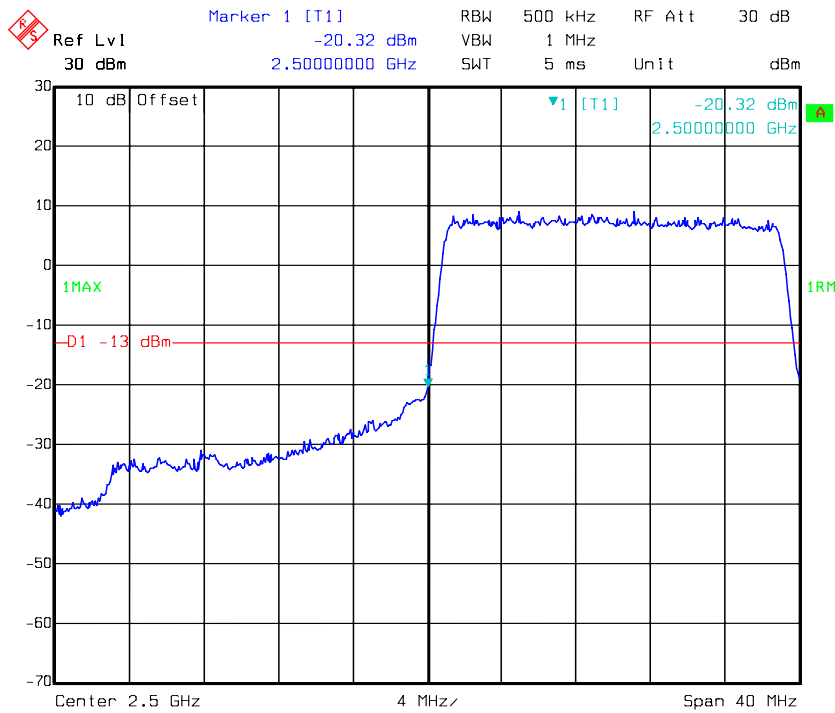
Date: 02.DEC.2015 19:58:57

QPSK-20M 1RB, Right Band Edge

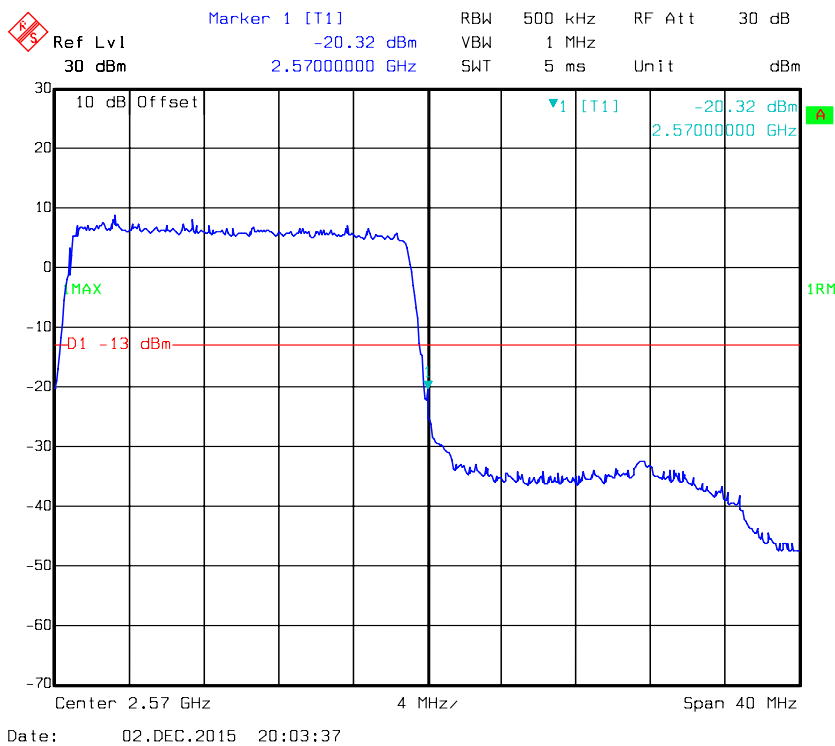


Date: 02.DEC.2015 19:57:45

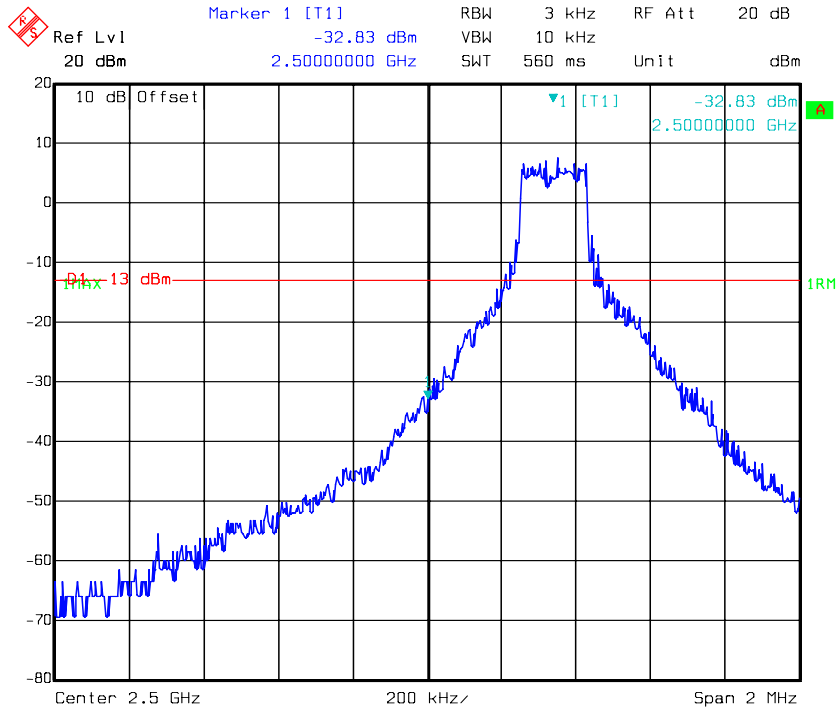
QPSK-20M Full RB, Left Band Edge



QPSK-20M Full RB, Right Band Edge

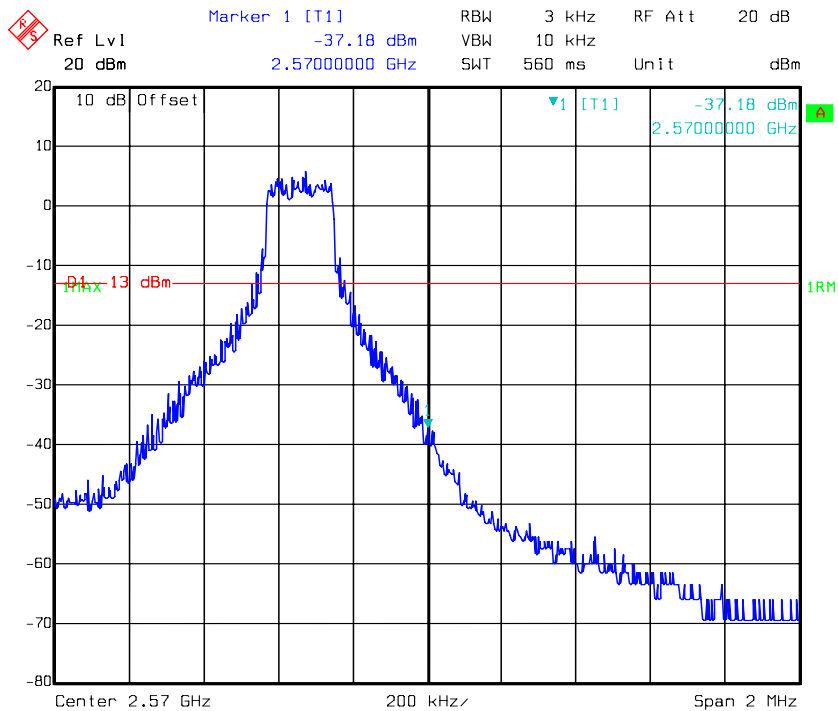


16QAM -5M 1RB, Left Band Edge



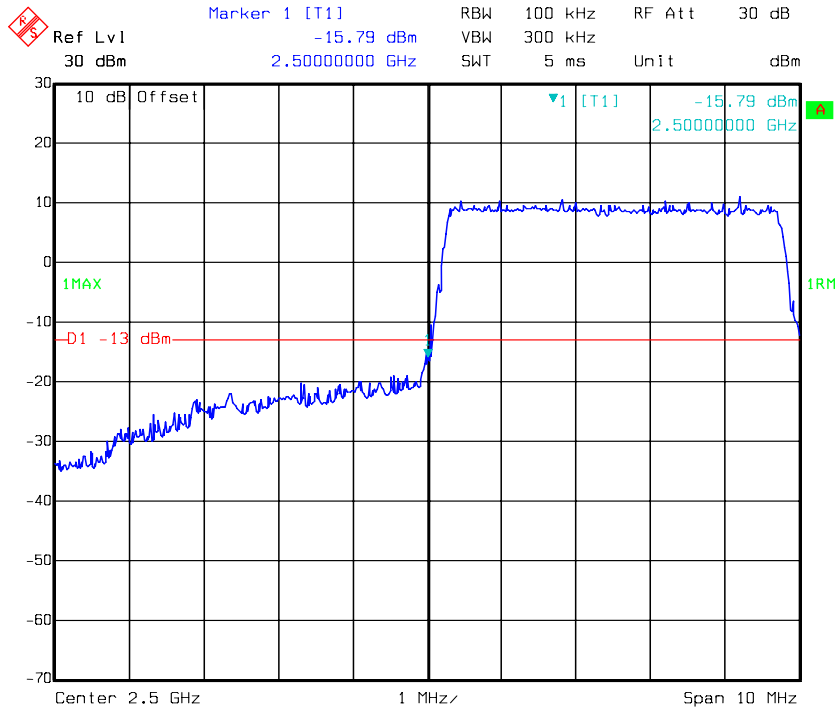
Date: 02.DEC.2015 19:43:02

16QAM -5M 1RB, Right Band Edge



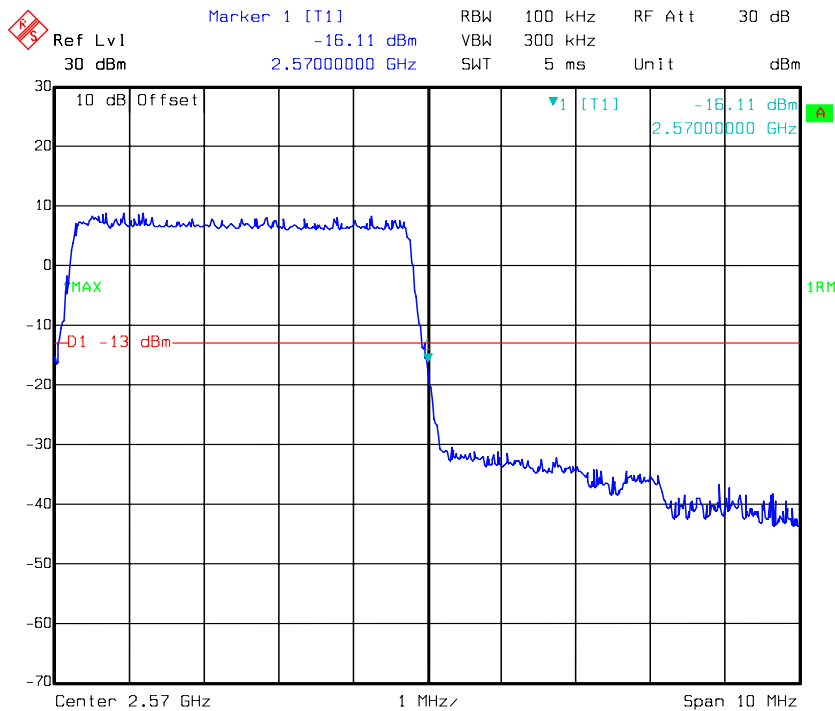
Date: 02.DEC.2015 19:44:03

16QAM -5M Full RB, Left Band Edge



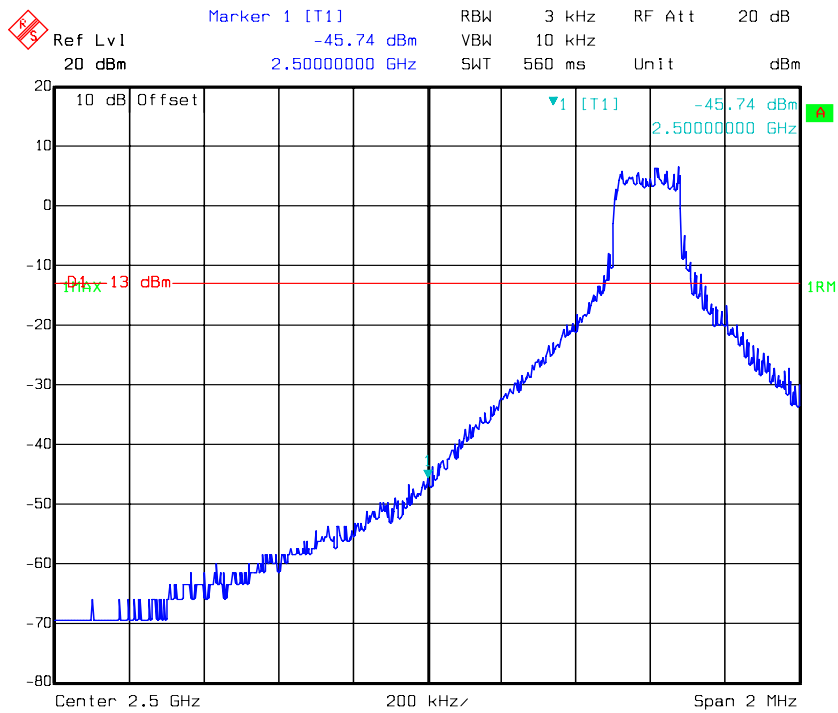
Date: 02.DEC.2015 20:14:52

16QAM -5M Full RB, Right Band Edge



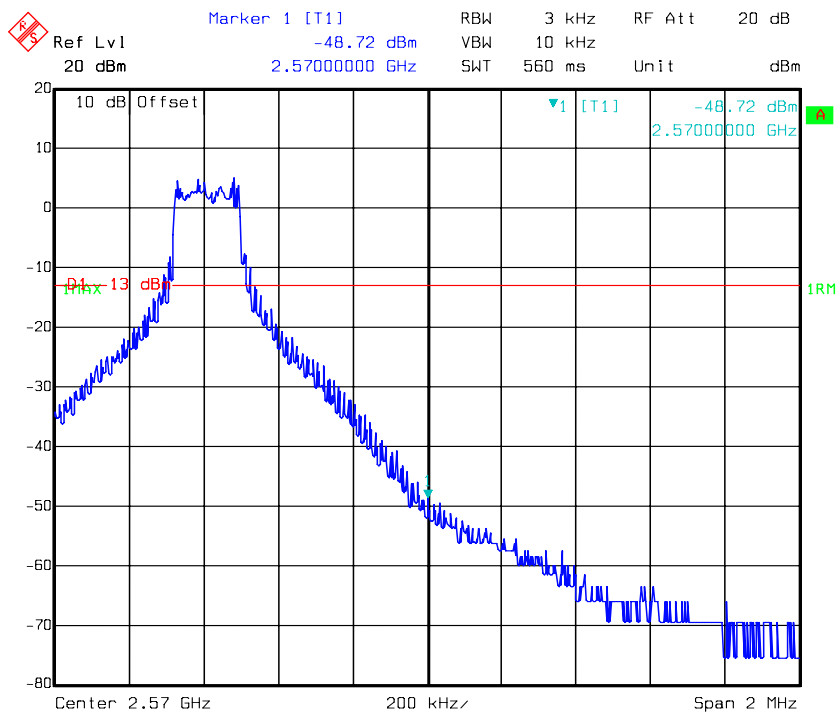
Date: 02.DEC.2015 20:13:00

16QAM -10M 1RB, Left Band Edge



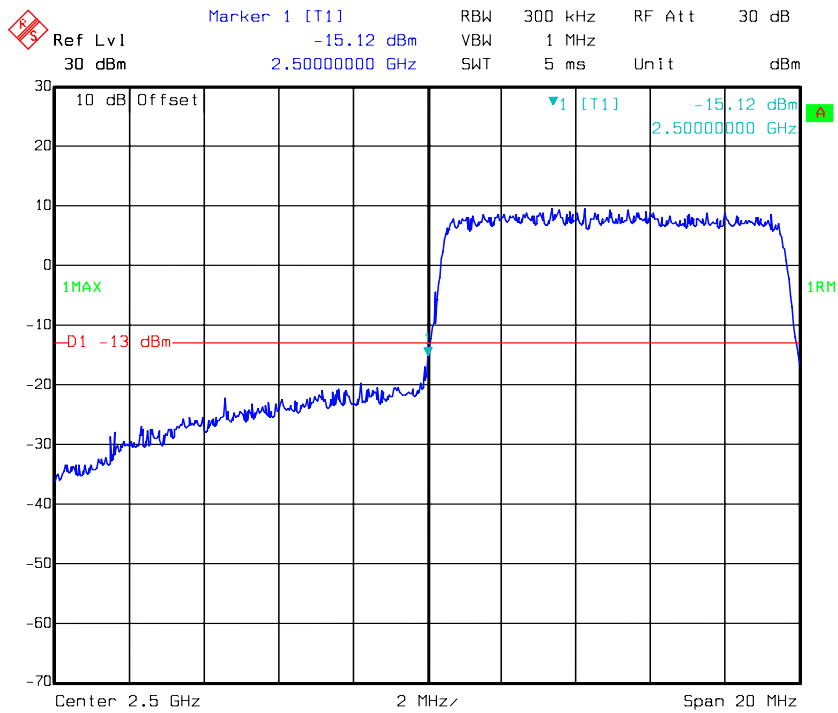
Date: 02.DEC.2015 19:49:23

16QAM -10M 1RB, Right Band Edge



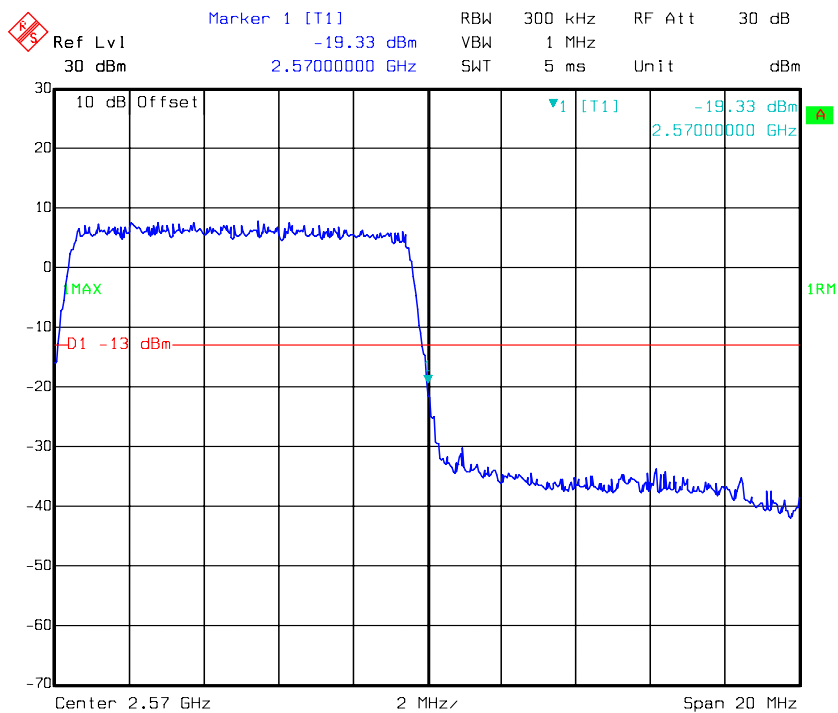
Date: 02.DEC.2015 19:47:42

16QAM -10M Full RB, Left Band Edge



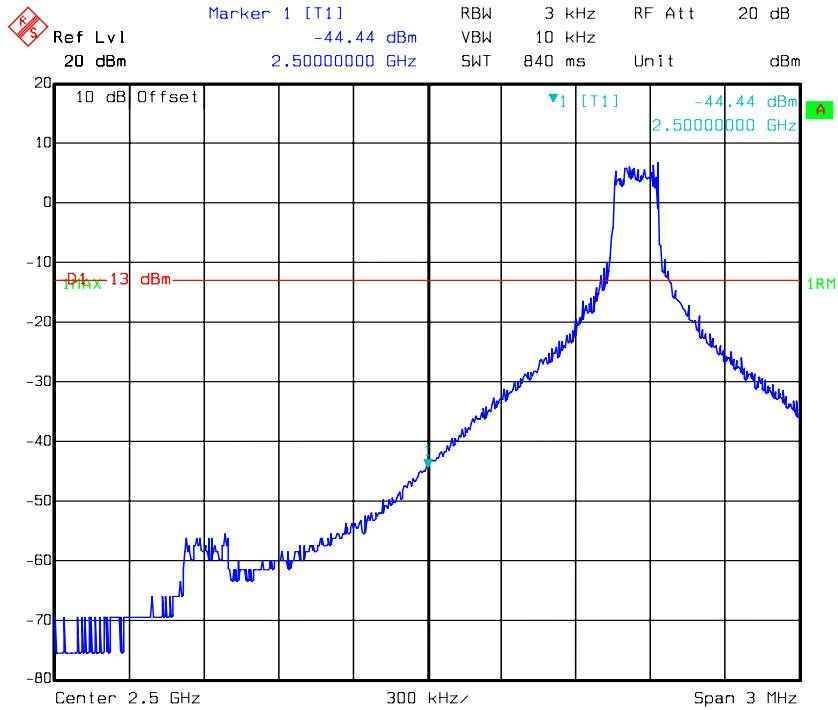
Date: 02.DEC.2015 20:08:53

16QAM -10M Full RB, Right Band Edge

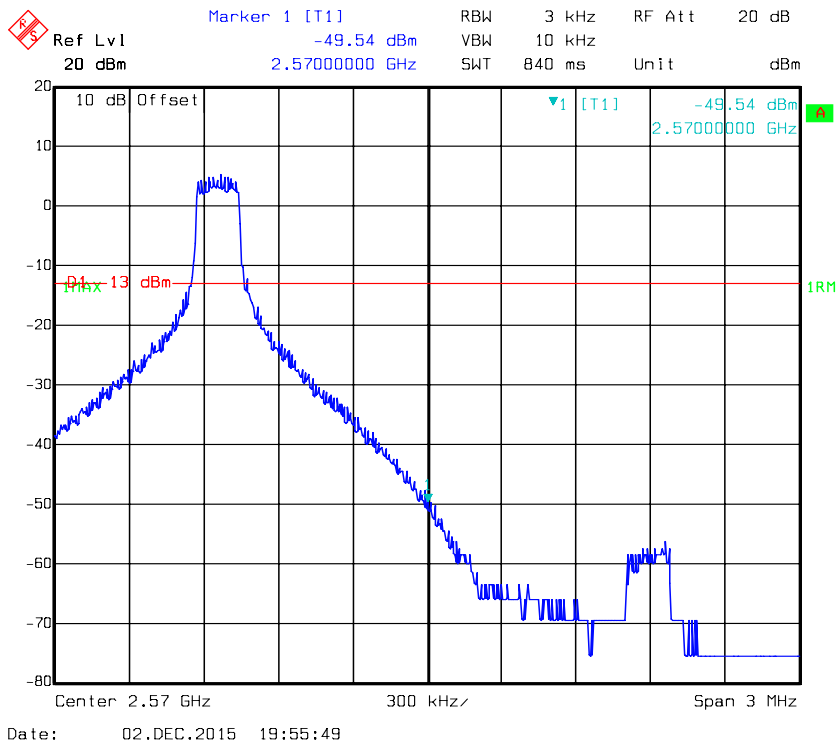


Date: 02.DEC.2015 20:10:08

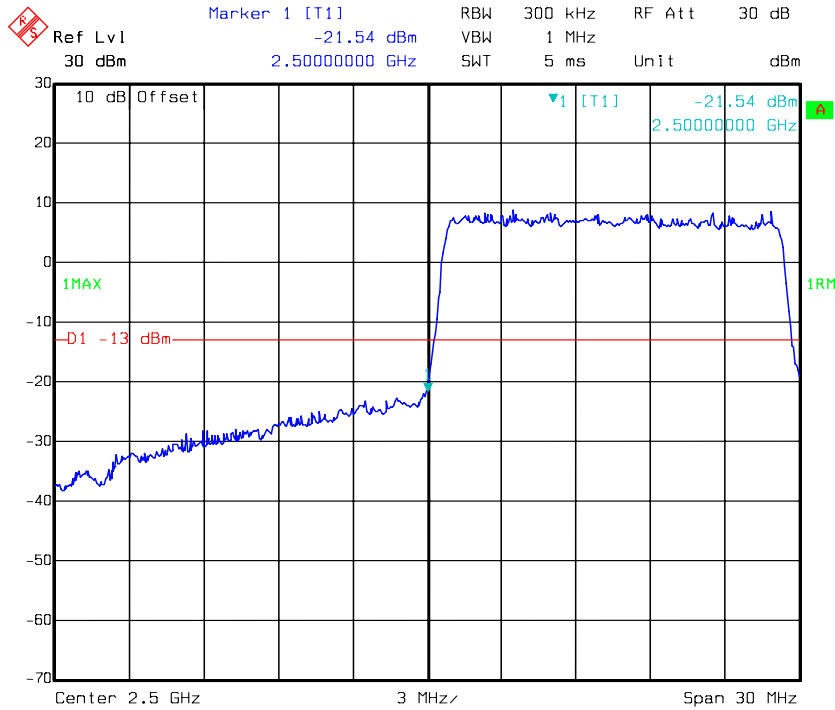
16QAM -15M 1RB, Left Band Edge



16QAM -15M 1RB, Right Band Edge

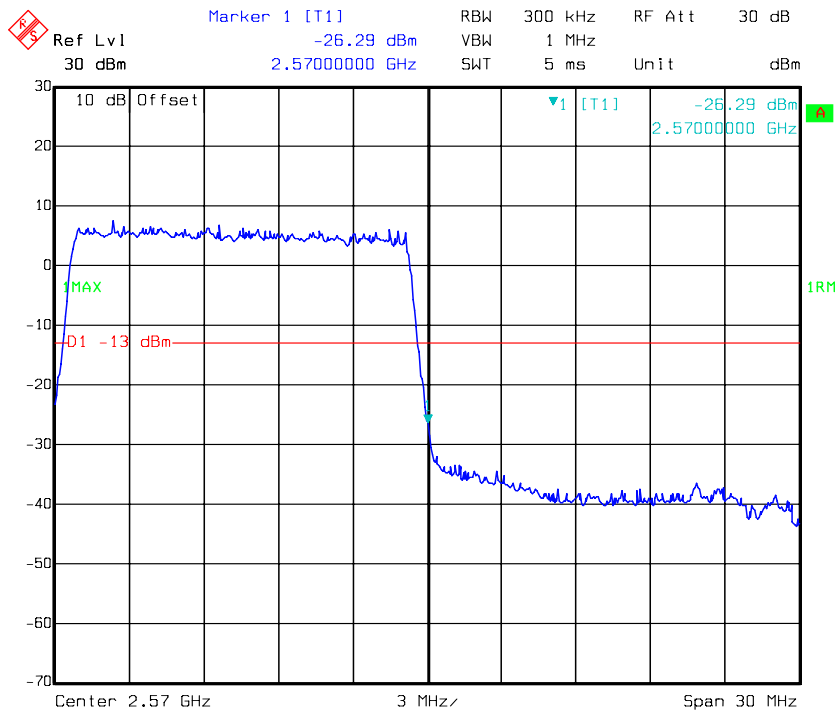


16QAM -15M Full RB, Left Band Edge



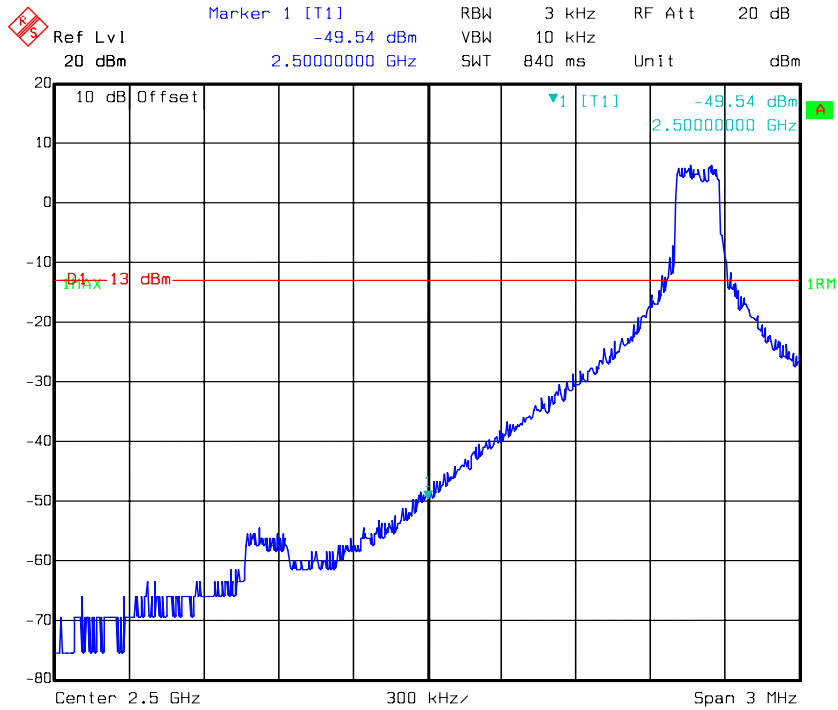
Date: 02.DEC.2015 20:06:54

16QAM -15M Full RB, Right Band Edge

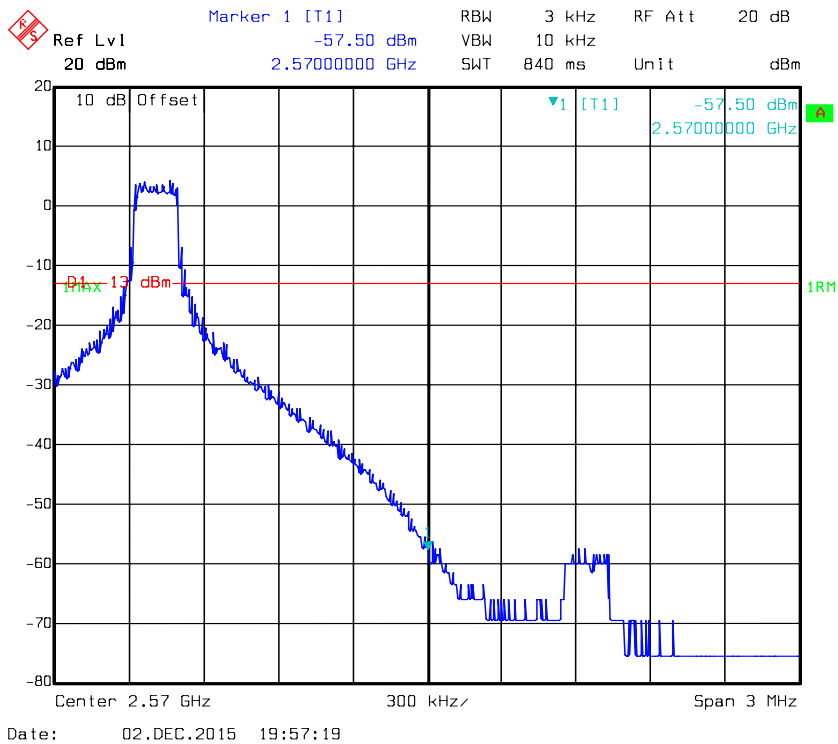


Date: 02.DEC.2015 20:05:23

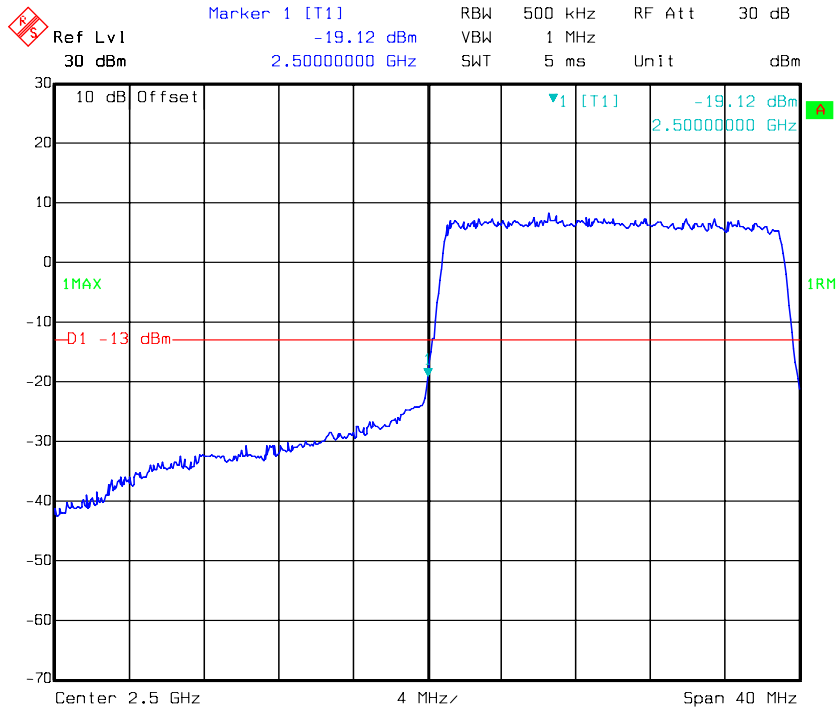
16QAM -20M 1RB, Left Band Edge



16QAM -20M 1RB, Right Band Edge

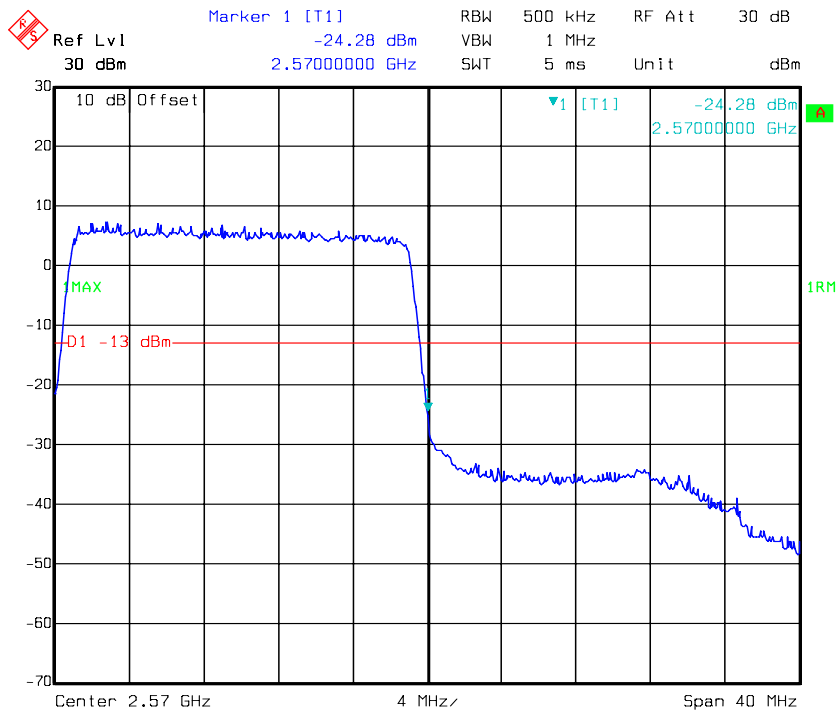


16QAM -20M Full RB, Left Band Edge



Date: 02.DEC.2015 20:01:29

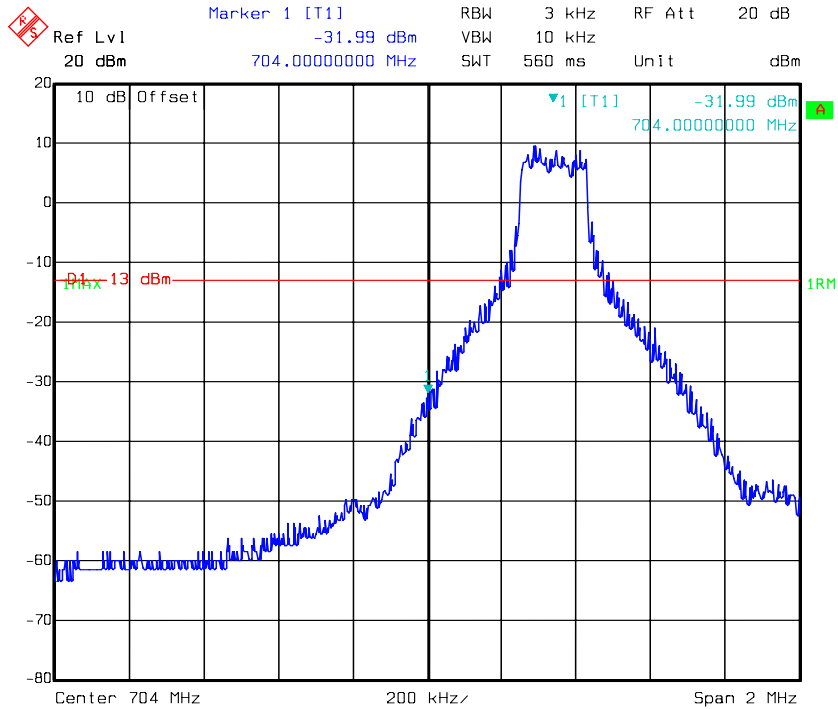
16QAM-20M Full RB, Right Band Edge



Date: 02.DEC.2015 20:02:09

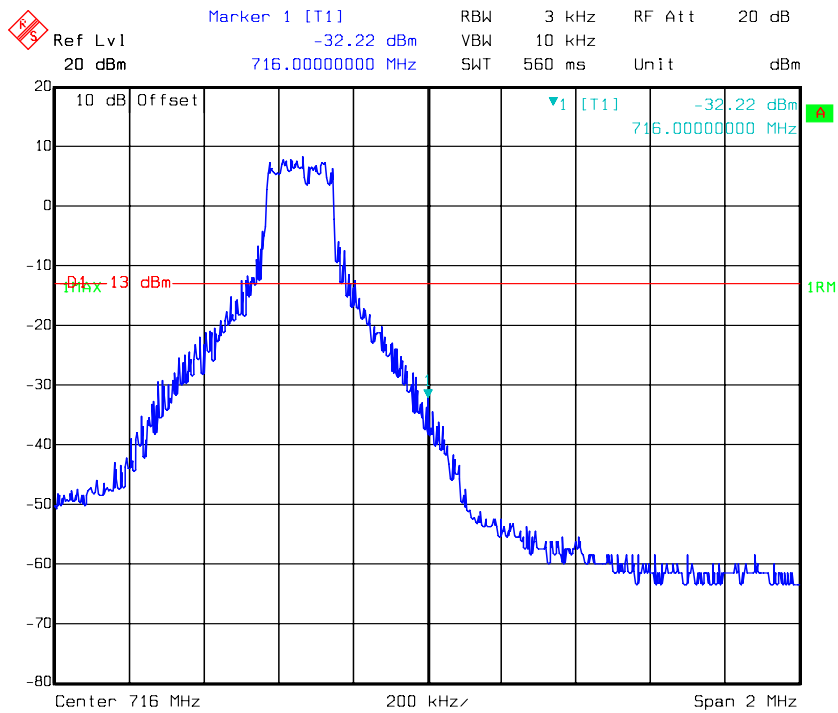
LTE Band 17:

QPSK-5M 1RB, Left Band Edge



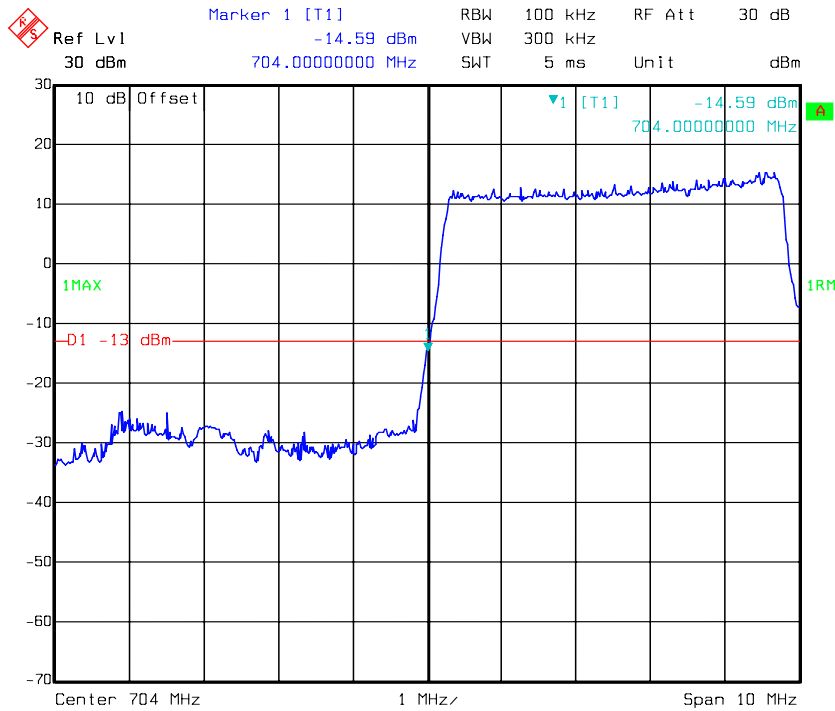
Date: 02.DEC.2015 19:36:12

QPSK-5M 1RB, Right Band Edge

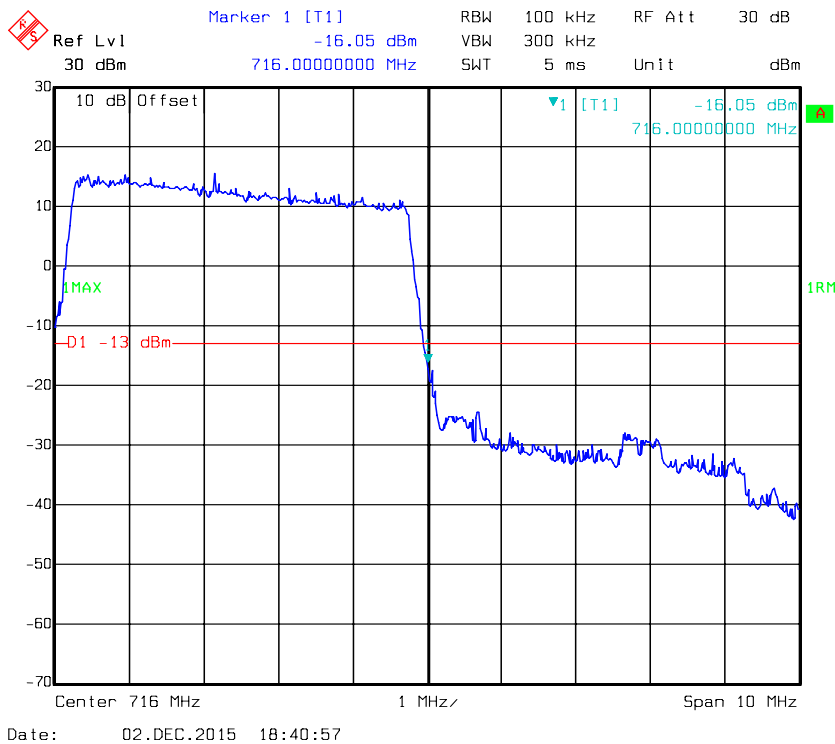


Date: 02.DEC.2015 19:35:38

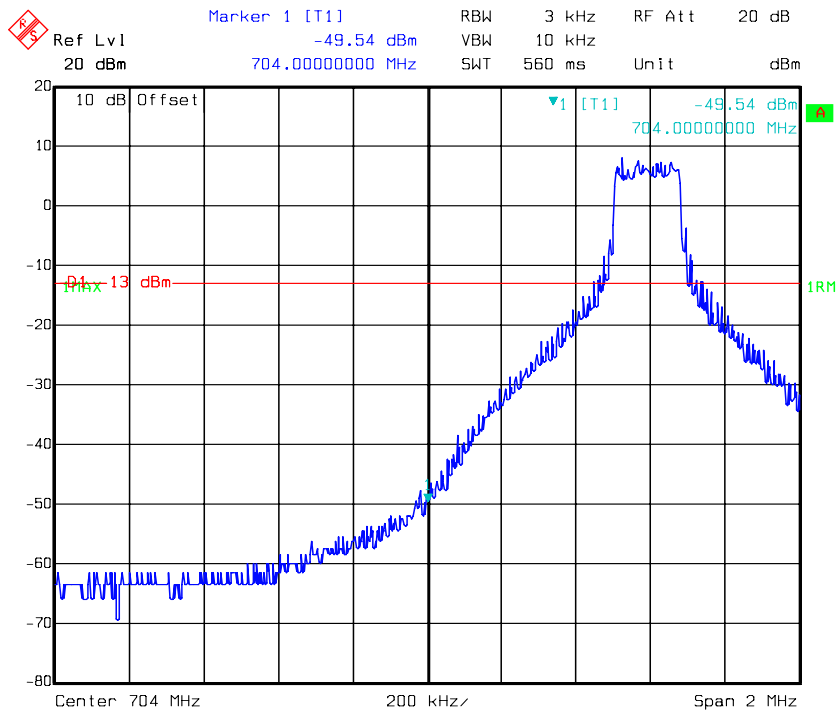
QPSK-5M Full RB, Left Band Edge



QPSK-5M Full RB, Right Band Edge

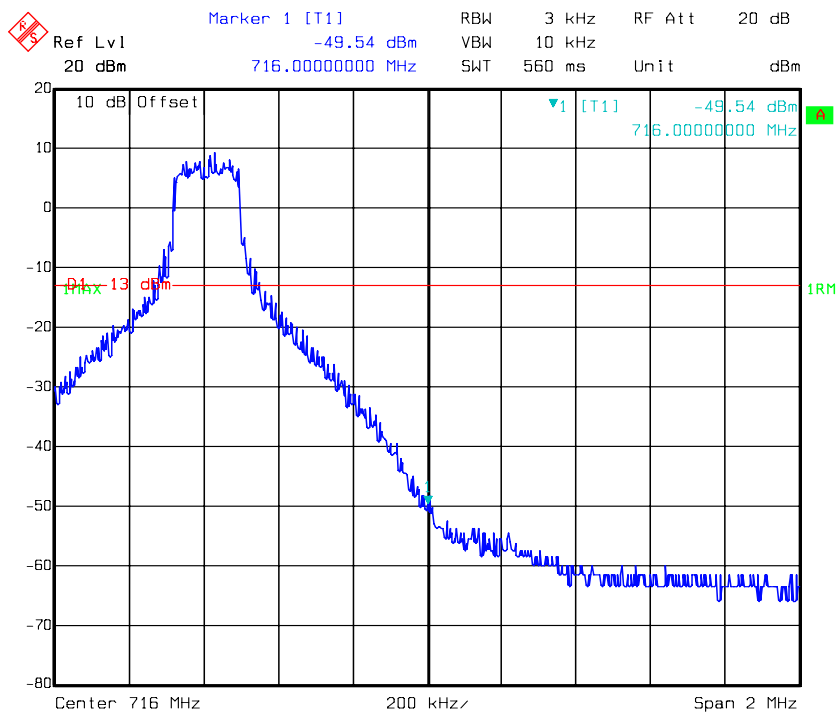


QPSK-10M 1RB, Left Band Edge



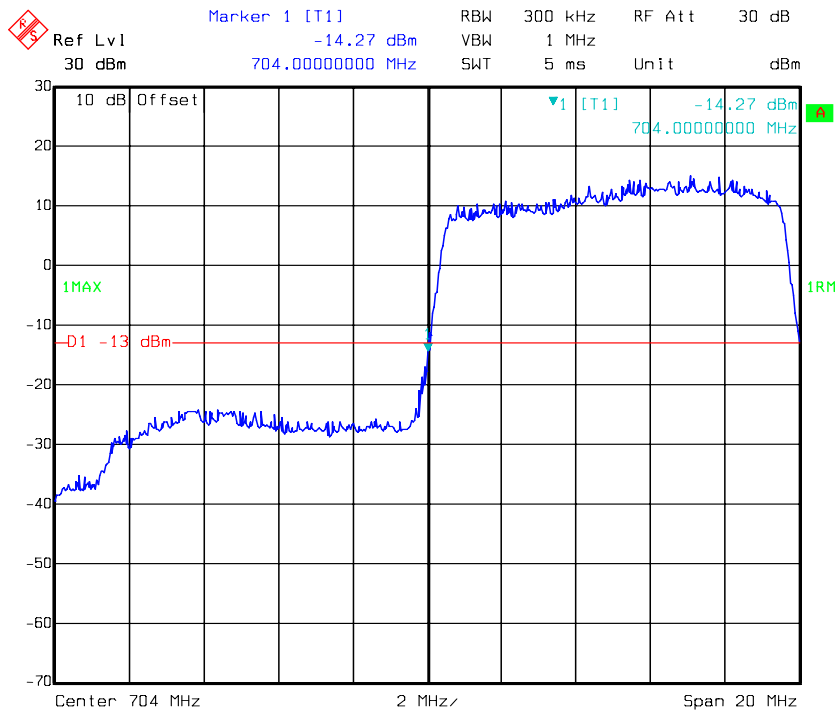
Date: 02.DEC.2015 19:38:09

QPSK-10M 1RB, Right Band Edge



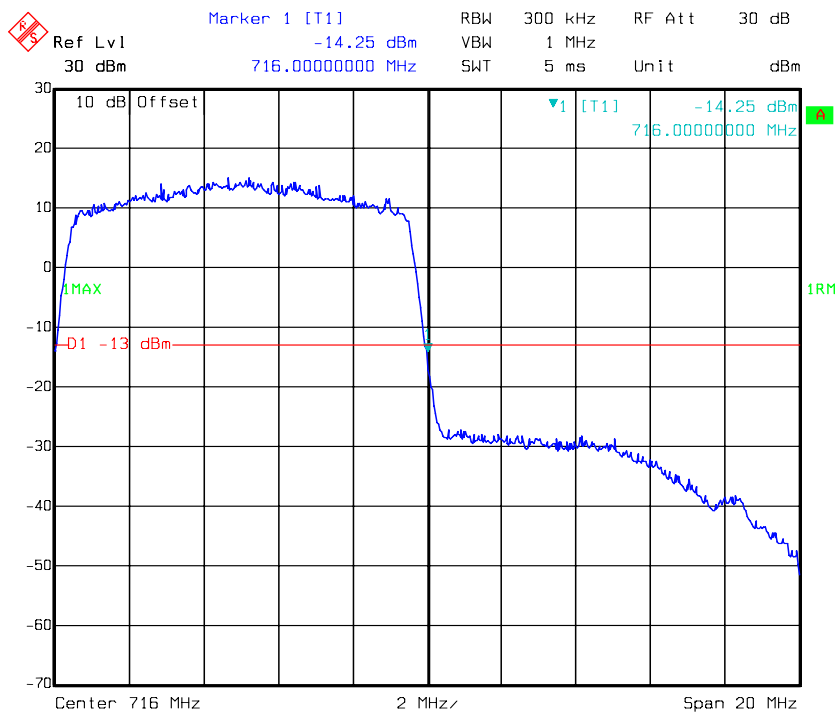
Date: 02.DEC.2015 19:39:23

QPSK-10M Full RB, Left Band Edge



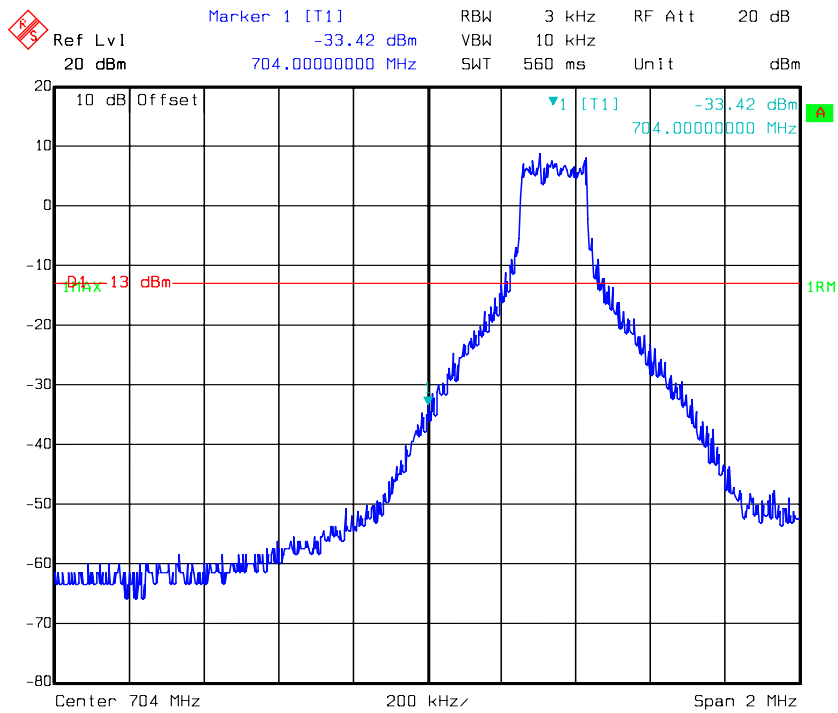
Date: 02.DEC.2015 18:35:46

QPSK-10M Full RB, Right Band Edge



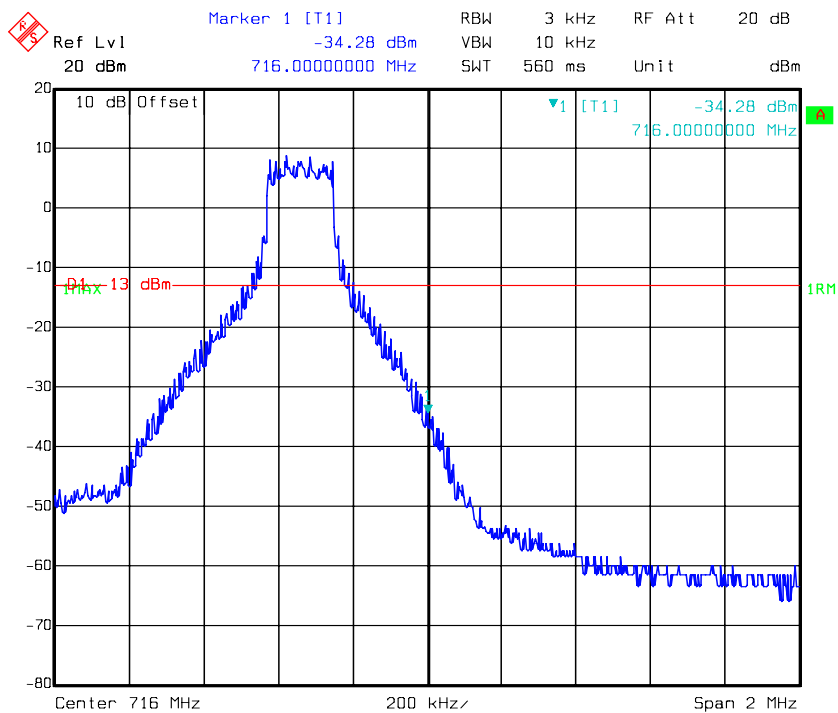
Date: 02.DEC.2015 18:34:34

16QAM -5M 1RB, Left Band Edge



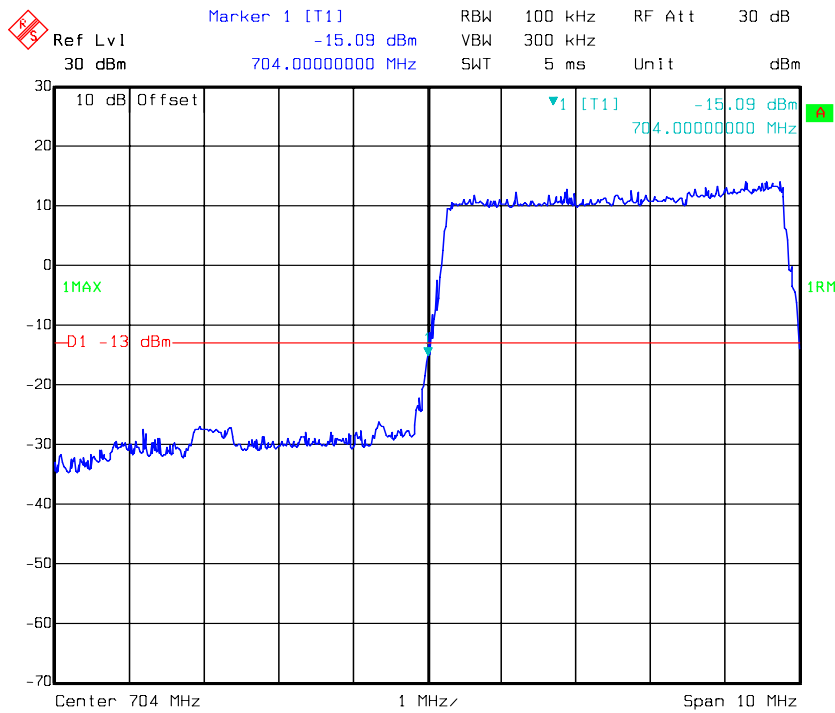
Date: 02.DEC.2015 19:36:28

16QAM -5M 1RB, Right Band Edge



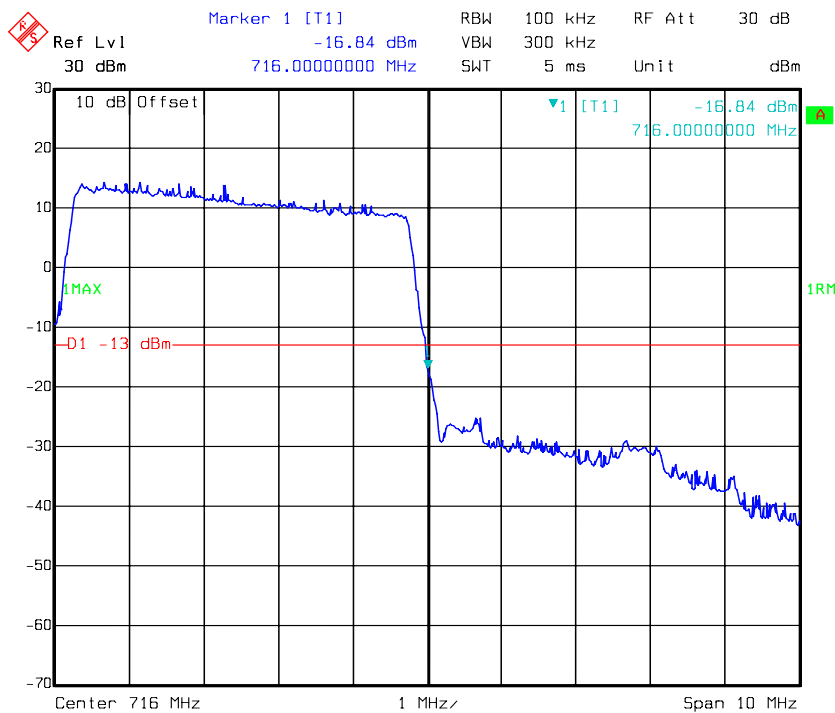
Date: 02.DEC.2015 19:35:16

16QAM -5M Full RB, Left Band Edge



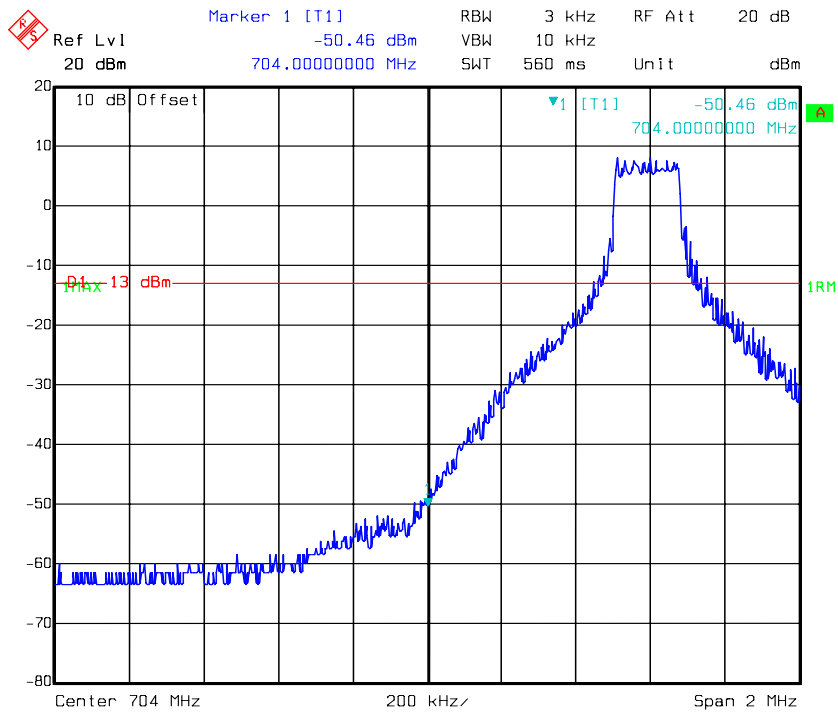
Date: 02.DEC.2015 18:39:00

16QAM -5M Full RB, Right Band Edge



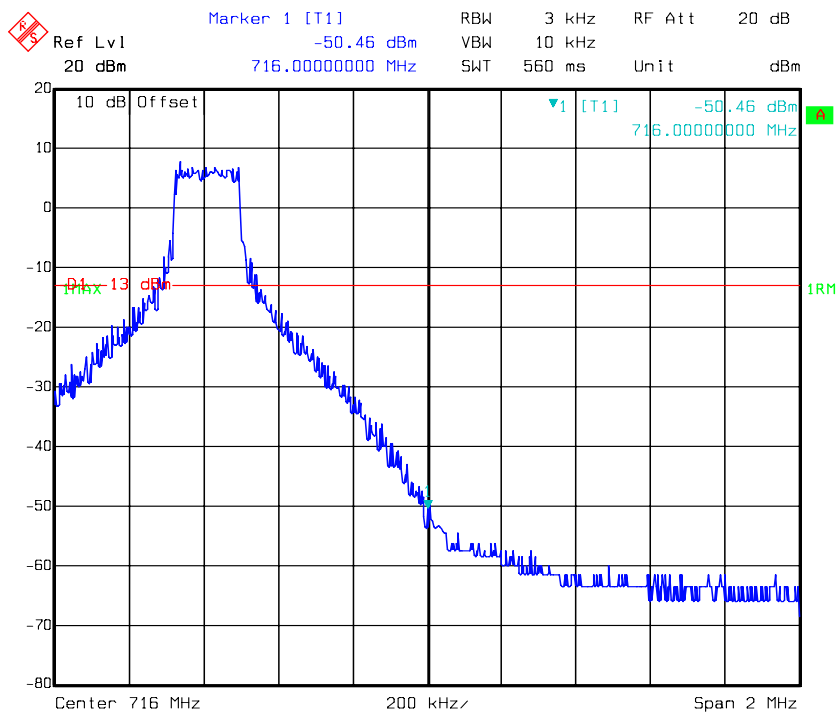
Date: 02.DEC.2015 18:40:21

16QAM -10M 1RB, Left Band Edge



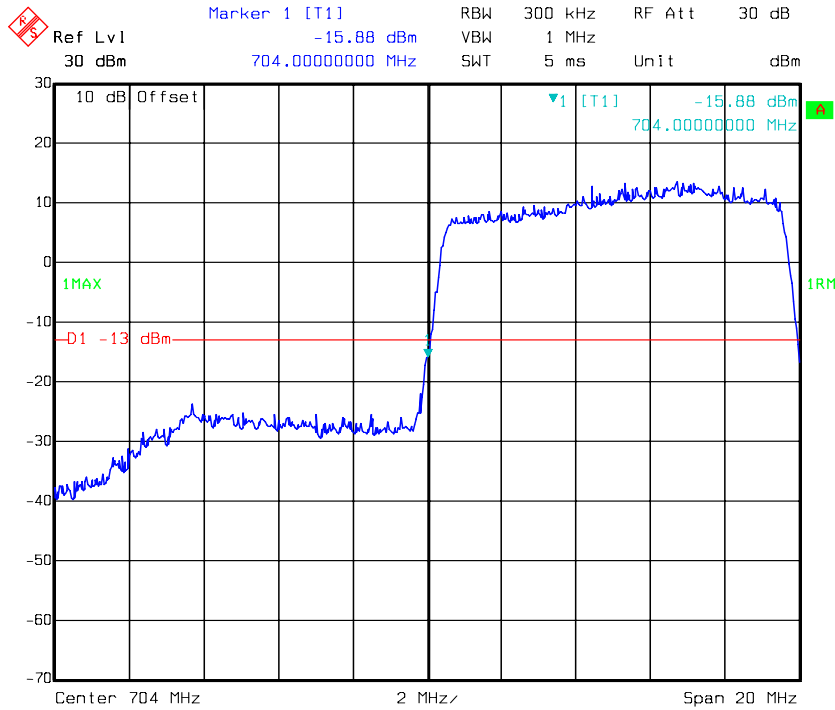
Date: 02.DEC.2015 19:37:47

16QAM -10M 1RB, Right Band Edge



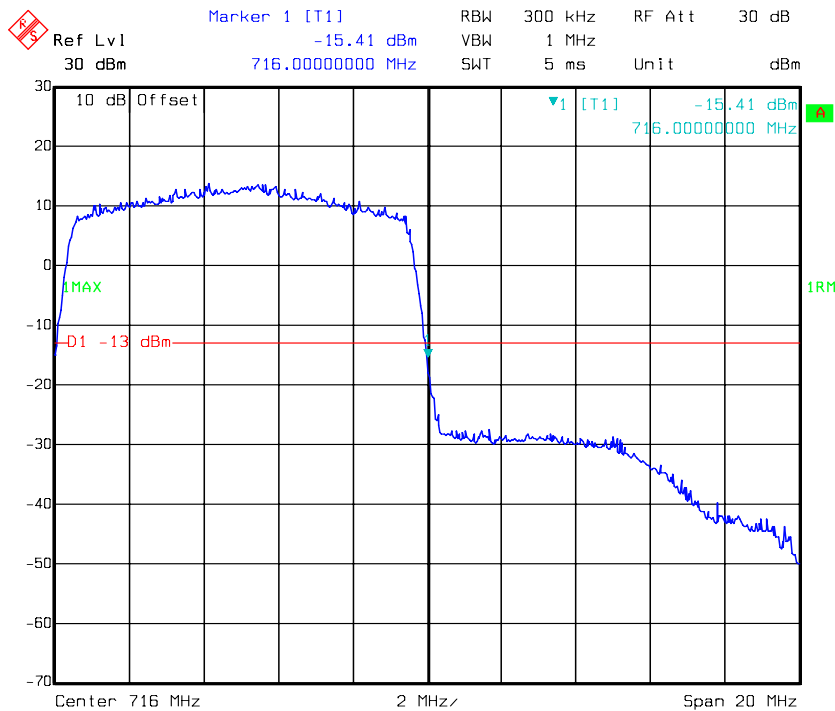
Date: 02.DEC.2015 19:38:53

16QAM -10M Full RB, Left Band Edge



Date: 02.DEC.2015 18:36:05

16QAM -10M Full RB, Right Band Edge



Date: 02.DEC.2015 18:34:04

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

Applicable Standard

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

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

Frequency Tolerance for Transmitters in the Public Mobile Services

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

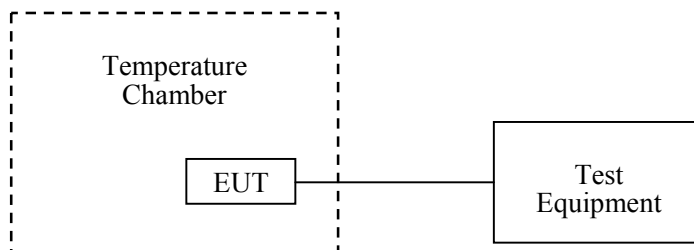
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

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

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

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



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-3	2015-09-10	2016-09-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
R&S	Wideband Radio Communication Tester	CMW500	106891	2014-12-19	2015-12-19

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

Test Data

Environmental Conditions

Temperature:	26.8 °C
Relative Humidity:	54 %
ATM Pressure:	100.3 kPa

The testing was performed by Lion Xiao on 2015-12-02.

Cellular Band (Part 22H)

GMSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	10	0.012	2.5
-20	3.8	13	0.016	2.5
-10	3.8	17	0.020	2.5
0	3.8	15	0.018	2.5
10	3.8	12	0.014	2.5
20	3.8	19	0.023	2.5
30	3.8	15	0.018	2.5
40	3.8	17	0.020	2.5
50	3.8	13	0.016	2.5
25	3.6	10	0.012	2.5
25	4.3	14	0.017	2.5

EDGE, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	30	-0.055	2.5
-20	3.8	34	-0.048	2.5
-10	3.8	39	-0.056	2.5
0	3.8	32	-0.048	2.5
10	3.8	37	-0.054	2.5
20	3.8	33	-0.049	2.5
30	3.8	36	-0.059	2.5
40	3.8	30	-0.055	2.5
50	3.8	35	-0.051	2.5
25	3.6	32	-0.054	2.5
25	4.3	38	-0.057	2.5

WCDMA Band V: Re199

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	34	0.041	2.5
-20	3.8	30	0.036	2.5
-10	3.8	36	0.043	2.5
0	3.8	39	0.047	2.5
10	3.8	32	0.038	2.5
20	3.8	37	0.044	2.5
30	3.8	33	0.039	2.5
40	3.8	30	0.036	2.5
50	3.8	38	0.045	2.5
25	3.6	36	0.043	2.5
25	4.3	32	0.038	2.5

WCDMA Band V: HSDPA

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.8	27	0.032	2.5
-20	3.8	22	0.026	2.5
-10	3.8	29	0.035	2.5
0	3.8	23	0.027	2.5
10	3.8	27	0.032	2.5
20	3.8	25	0.030	2.5
30	3.8	21	0.025	2.5
40	3.8	28	0.033	2.5
50	3.8	26	0.031	2.5
25	3.6	21	0.025	2.5
25	4.3	28	0.033	2.5

WCDMA Band V: HSUPA

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.8	-20	-0.024	2.5
-20	3.8	-23	-0.027	2.5
-10	3.8	-19	-0.023	2.5
0	3.8	-22	-0.026	2.5
10	3.8	-27	-0.032	2.5
20	3.8	-24	-0.029	2.5
30	3.8	-29	-0.035	2.5
40	3.8	-23	-0.027	2.5
50	3.8	-28	-0.033	2.5
25	3.6	-21	-0.025	2.5
25	4.3	-26	-0.031	2.5

WCDMA Band IV: REL99

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	59	0.034	2.5
-20	3.8	52	0.030	2.5
-10	3.8	57	0.033	2.5
0	3.8	50	0.029	2.5
10	3.8	54	0.031	2.5
20	3.8	58	0.033	2.5
30	3.8	53	0.031	2.5
40	3.8	57	0.033	2.5
50	3.8	61	0.035	2.5
25	3.6	56	0.032	2.5
25	4.3	52	0.030	2.5

WCDMA Band IV: HSDPA

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	43	0.025	2.5
-20	3.8	40	0.023	2.5
-10	3.8	49	0.028	2.5
0	3.8	47	0.027	2.5
10	3.8	40	0.023	2.5
20	3.8	42	0.024	2.5
30	3.8	45	0.026	2.5
40	3.8	48	0.028	2.5
50	3.8	42	0.024	2.5
25	3.6	45	0.026	2.5
25	4.3	44	0.025	2.5

WCDMA Band IV: HSUPA

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	52	0.030	2.5
-20	3.8	49	0.028	2.5
-10	3.8	56	0.032	2.5
0	3.8	52	0.030	2.5
10	3.8	59	0.034	2.5
20	3.8	51	0.029	2.5
30	3.8	54	0.031	2.5
40	3.8	58	0.033	2.5
50	3.8	53	0.031	2.5
25	3.6	50	0.029	2.5
25	4.3	56	0.032	2.5

PCS Band (Part 24E)

GMSK, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V _{DC}	Hz	ppm	
-30	3.8	-23	-0.012	Compliance
-20	3.8	-27	-0.014	Compliance
-10	3.8	-20	-0.011	Compliance
0	3.8	-22	-0.012	Compliance
10	3.8	-28	-0.015	Compliance
20	3.8	-25	-0.013	Compliance
30	3.8	-21	-0.011	Compliance
40	3.8	-24	-0.013	Compliance
50	3.8	-29	-0.015	Compliance
25	3.6	-30	-0.016	Compliance
25	4.3	-24	-0.013	Compliance

EDGE, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	-16	-0.024	Compliance
-20	3.8	-19	-0.021	Compliance
-10	3.8	-12	-0.025	Compliance
0	3.8	-18	-0.021	Compliance
10	3.8	-10	-0.024	Compliance
20	3.8	-13	-0.022	Compliance
30	3.8	-17	-0.026	Compliance
40	3.8	-12	-0.024	Compliance
50	3.8	-15	-0.023	Compliance
25	3.6	-18	-0.024	Compliance
25	4.3	-13	-0.026	Compliance

WCDMA Band II: Re199

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	-46	-0.024	Compliance
-20	3.8	-40	-0.021	Compliance
-10	3.8	-47	-0.025	Compliance
0	3.8	-40	-0.021	Compliance
10	3.8	-45	-0.024	Compliance
20	3.8	-41	-0.022	Compliance
30	3.8	-49	-0.026	Compliance
40	3.8	-46	-0.024	Compliance
50	3.8	-43	-0.023	Compliance
25	3.6	-45	-0.024	Compliance
25	4.3	-48	-0.026	Compliance

WCDMA Band II: HSDPA

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V _{DC}	Hz	ppm	
-30	3.8	-56	-0.030	Compliance
-20	3.8	-51	-0.027	Compliance
-10	3.8	-50	-0.027	Compliance
0	3.8	-58	-0.031	Compliance
10	3.8	-53	-0.028	Compliance
20	3.8	-59	-0.031	Compliance
30	3.8	-54	-0.029	Compliance
40	3.8	-57	-0.030	Compliance
50	3.8	-55	-0.029	Compliance
25	3.6	-52	-0.028	Compliance
25	4.3	-57	-0.030	Compliance

WCDMA Band II: HSUPA

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V _{DC}	Hz	ppm	
-30	3.8	-49	-0.026	Compliance
-20	3.8	-53	-0.028	Compliance
-10	3.8	-47	-0.025	Compliance
0	3.8	-42	-0.022	Compliance
10	3.8	-48	-0.026	Compliance
20	3.8	-43	-0.023	Compliance
30	3.8	-40	-0.021	Compliance
40	3.8	-44	-0.023	Compliance
50	3.8	-49	-0.026	Compliance
25	3.6	-42	-0.022	Compliance
25	4.3	-46	-0.024	Compliance

LTE Band 2:

QPSK, Channel Bandwidth:10MHz Middle Channel, f_c = 1732.5 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	12.89	0.0069	Compliance
-20	3.8	12.12	0.0064	Compliance
-10	3.8	12.33	0.0066	Compliance
0	3.8	12.50	0.0066	Compliance
10	3.8	12.68	0.0067	Compliance
20	3.8	12.59	0.0067	Compliance
30	3.8	12.56	0.0067	Compliance
40	3.8	12.49	0.0066	Compliance
50	3.8	12.95	0.0069	Compliance
25	3.6	12.63	0.0067	Compliance
25	4.3	12.41	0.0066	Compliance

16QAM, Channel Bandwidth:10MHz Middle Channel, f_c = 1732.5 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	11.78	0.0063	Compliance
-20	3.8	11.15	0.0059	Compliance
-10	3.8	11.58	0.0062	Compliance
0	3.8	11.64	0.0062	Compliance
10	3.8	11.18	0.0059	Compliance
20	3.8	11.35	0.0060	Compliance
30	3.8	11.30	0.0060	Compliance
40	3.8	11.23	0.0060	Compliance
50	3.8	11.16	0.0059	Compliance
25	3.6	11.64	0.0062	Compliance
25	4.3	11.39	0.0061	Compliance

LTE Band 4:

QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 1732.5$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	-17.90	-0.0103	Compliance
-20	3.8	-17.43	-0.0101	Compliance
-10	3.8	-17.27	-0.0100	Compliance
0	3.8	-17.74	-0.0102	Compliance
10	3.8	-17.48	-0.0101	Compliance
20	3.8	-17.33	-0.0100	Compliance
30	3.8	-17.50	-0.0101	Compliance
40	3.8	-17.65	-0.0102	Compliance
50	3.8	-17.83	-0.0103	Compliance
25	3.6	-17.08	-0.0099	Compliance
25	4.3	-17.72	-0.0102	Compliance

16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 1732.5$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	14.13	0.0082	Compliance
-20	3.8	14.90	0.0086	Compliance
-10	3.8	14.71	0.0085	Compliance
0	3.8	14.00	0.0081	Compliance
10	3.8	14.61	0.0084	Compliance
20	3.8	14.29	0.0082	Compliance
30	3.8	14.70	0.0085	Compliance
40	3.8	14.29	0.0082	Compliance
50	3.8	14.31	0.0083	Compliance
25	3.6	14.96	0.0086	Compliance
25	4.3	14.19	0.0082	Compliance

LTE Band 7:

QPSK, Channel Bandwidth:10MHz Middle Channel, f_c = 2535 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	21.94	0.0087	Compliance
-20	3.8	21.31	0.0084	Compliance
-10	3.8	21.79	0.0086	Compliance
0	3.8	21.33	0.0084	Compliance
10	3.8	21.07	0.0083	Compliance
20	3.8	21.65	0.0085	Compliance
30	3.8	21.18	0.0084	Compliance
40	3.8	21.02	0.0083	Compliance
50	3.8	21.08	0.0083	Compliance
25	3.6	21.26	0.0084	Compliance
25	4.3	22.10	0.0087	Compliance

16QAM, Channel Bandwidth:10MHz Middle Channel, f_c = 2535 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	20.30	0.0080	Compliance
-20	3.8	20.01	0.0079	Compliance
-10	3.8	20.72	0.0082	Compliance
0	3.8	20.38	0.0080	Compliance
10	3.8	20.43	0.0081	Compliance
20	3.8	20.97	0.0083	Compliance
30	3.8	20.63	0.0081	Compliance
40	3.8	20.80	0.0082	Compliance
50	3.8	20.99	0.0083	Compliance
25	3.6	20.78	0.0082	Compliance
25	4.3	20.95	0.0083	Compliance

LTE Band 17:

QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 710$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	-12.34	-0.0174	Compliance
-20	3.8	-12.71	-0.0179	Compliance
-10	3.8	-12.30	-0.0173	Compliance
0	3.8	-12.77	-0.0180	Compliance
10	3.8	-12.55	-0.0177	Compliance
20	3.8	-12.69	-0.0179	Compliance
30	3.8	-12.92	-0.0182	Compliance
40	3.8	-12.87	-0.0181	Compliance
50	3.8	-12.62	-0.0178	Compliance
25	3.6	-12.35	-0.0174	Compliance
25	4.3	-12.73	-0.0179	Compliance

16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 710$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	-14.05	-0.0198	Compliance
-20	3.8	-14.87	-0.0209	Compliance
-10	3.8	-14.02	-0.0197	Compliance
0	3.8	-14.45	-0.0204	Compliance
10	3.8	-14.41	-0.0203	Compliance
20	3.8	-14.57	-0.0205	Compliance
30	3.8	-14.32	-0.0202	Compliance
40	3.8	-14.90	-0.0210	Compliance
50	3.8	-14.58	-0.0205	Compliance
25	3.6	-14.36	-0.0202	Compliance
25	4.3	-14.29	-0.0201	Compliance

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

DECLARATION LETTER

MAXWEST INTERNATIONAL LIMITED

Add: No.1,Longgang Road,Buji,Longgang,ShenzhenCity,Guangdong Province, P.R. China

Tel: 9498007607

Fax: 9498007607

DECLARATION OF SIMILARITY

Date: 2015-11-25

Dear Sir or Madam:

We, MAXWEST INTERNATIONAL LIMITED, hereby declare that product name: Gravity 5LTE, model:Gravity 5LTE,they are the same electromagnetic emissions and electromagnetic compatibility characteristics. A description of the difference among the 3 samples and those that are declared similar are as follows:

1) They have different colours:golden ,black and silver.

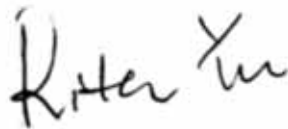
The rest are the same.

Please contact me should there be need for any additional clarification or information.

Best Regards,

Signature:

Rita Yu



Assistant Manager

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