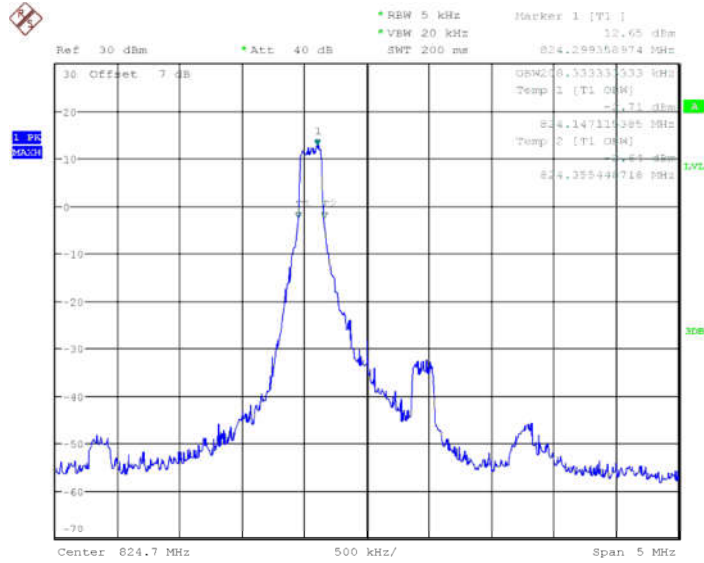


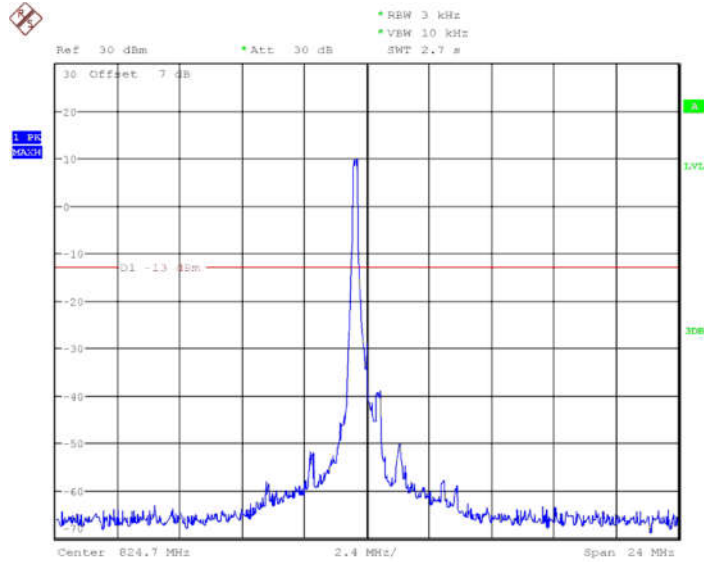
LTE band 5

OBW: 1RB-low_offset



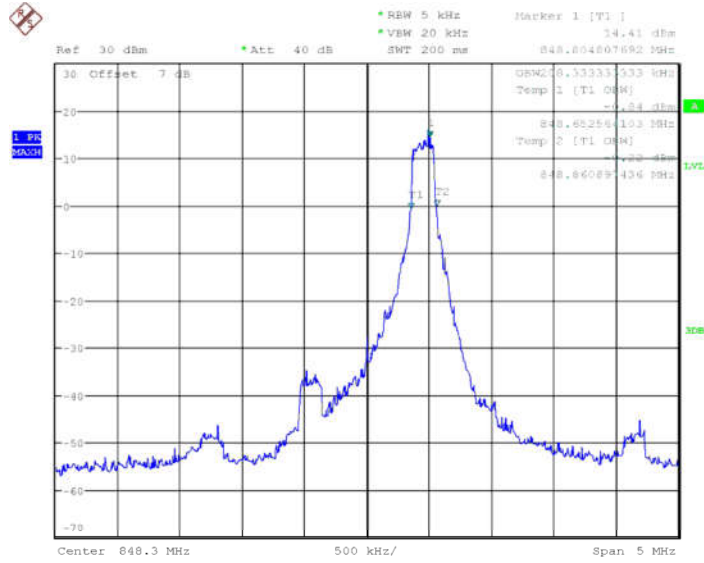
Date: 1.JAN.2003 07:54:09

LOW BAND EDGE BLOCK-1RB-low_offset



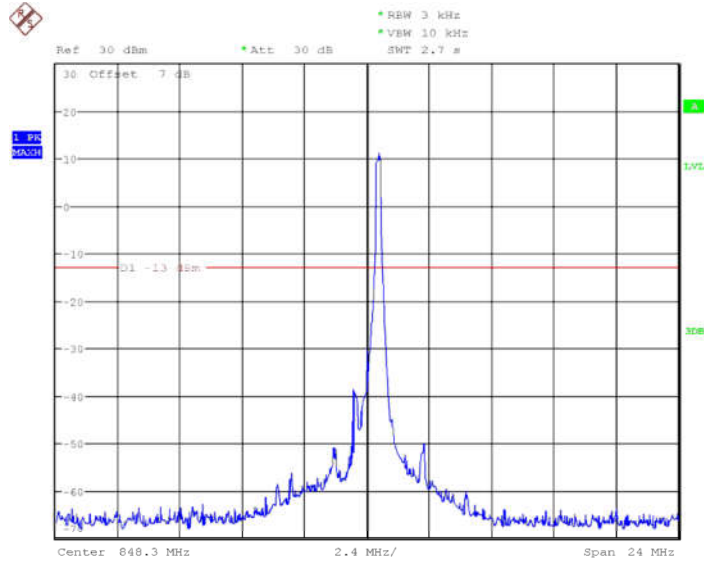
Date: 1.JAN.2003 07:55:02

OBW: 1RB-high_offset



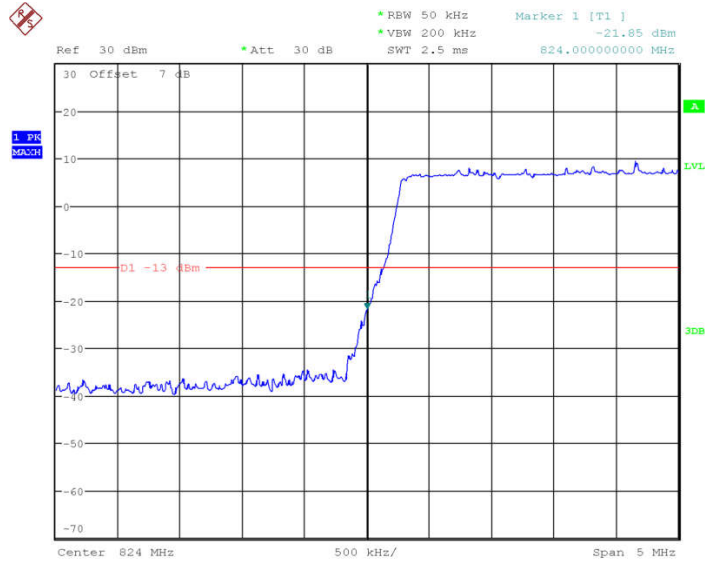
Date: 1.JAN.2003 07:35:36

HIGH BAND EDGE BLOCK-1RB-high_offset



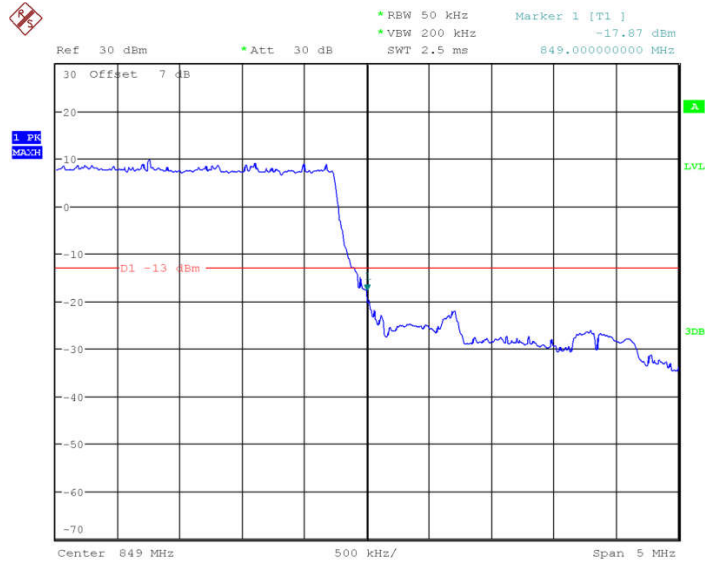
Date: 1.JAN.2003 07:39:43

LOW BAND EDGE BLOCK-QPSK-10MHz-100%RB



Date: 1.JAN.2003 08:26:05

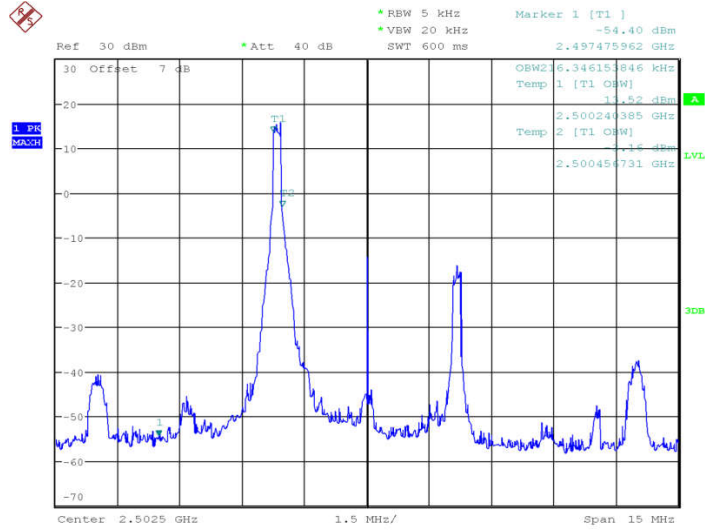
HIGH BAND EDGE BLOCK-QPSK-10MHz-100%RB



Date: 1.JAN.2003 08:28:36

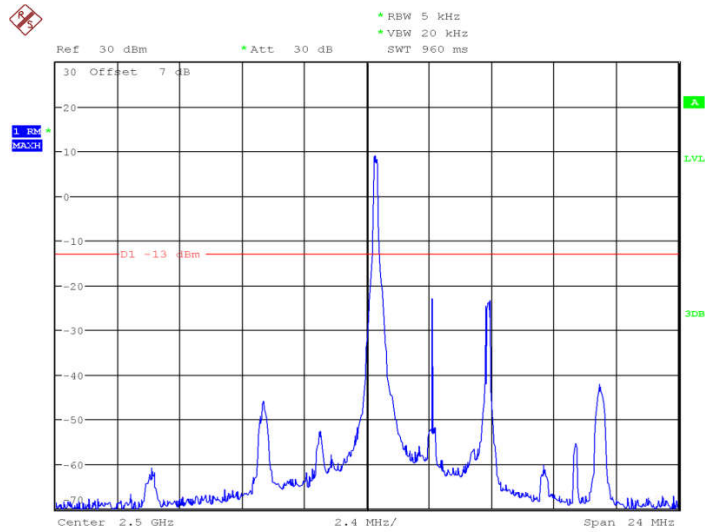
LTE band 7

OBW: 1RB-low_offset



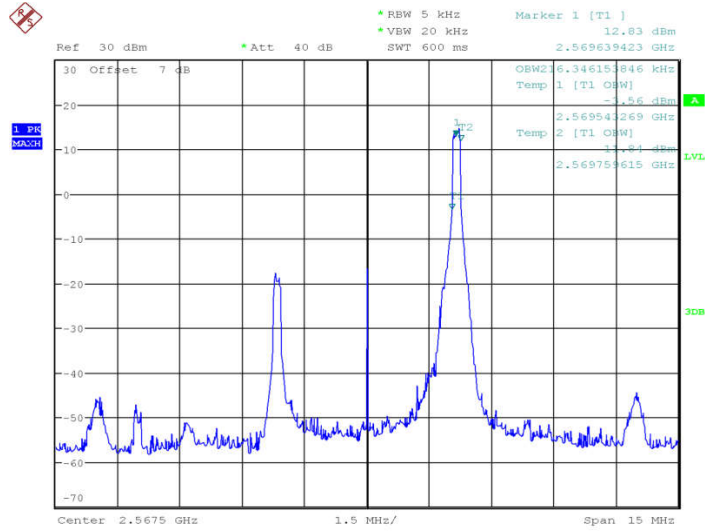
IF Overload
Date: 27.MAR.2018 12:20:31

LOW BAND EDGE BLOCK-1RB-low_offset



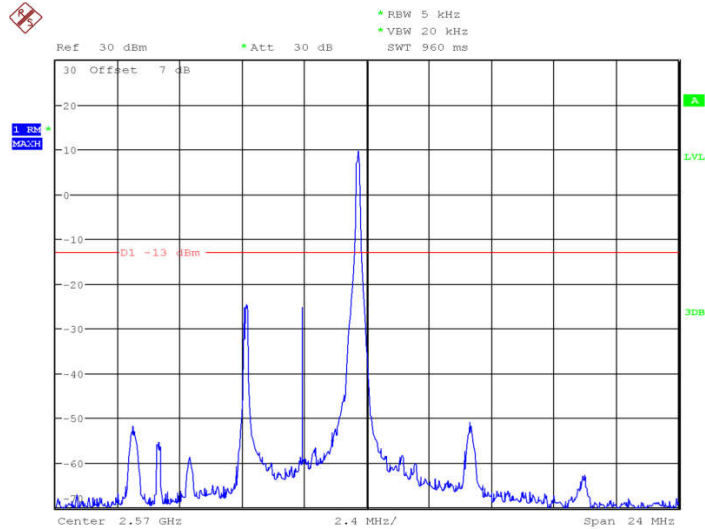
IF Overload
Date: 27.MAR.2018 12:20:53

OBW: 1RB-high_offset



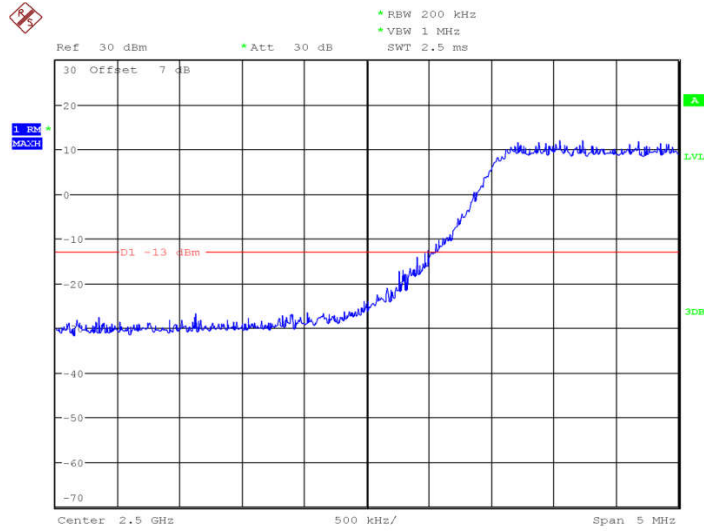
IF Overload
Date: 27.MAR.2018 12:21:55

HIGH BAND EDGE BLOCK-1RB-high_offset



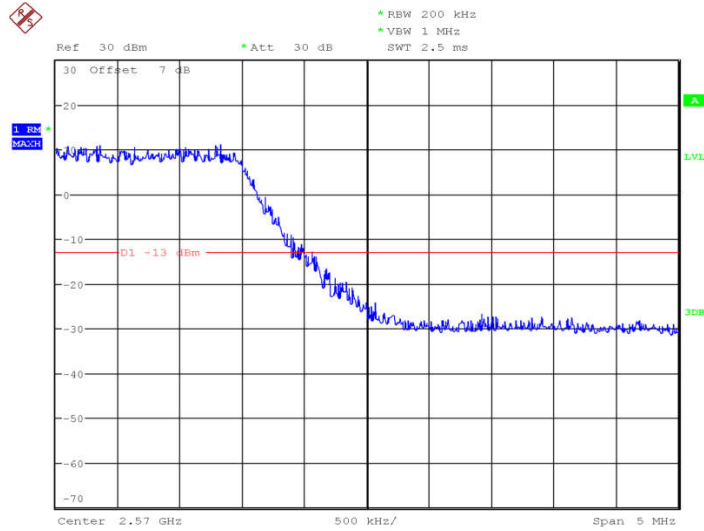
IF Overload
Date: 27.MAR.2018 12:22:17

LOW BAND EDGE BLOCK-20MHz-100%RB



IF Overload
 Date: 27.MAR.2018 12:21:22

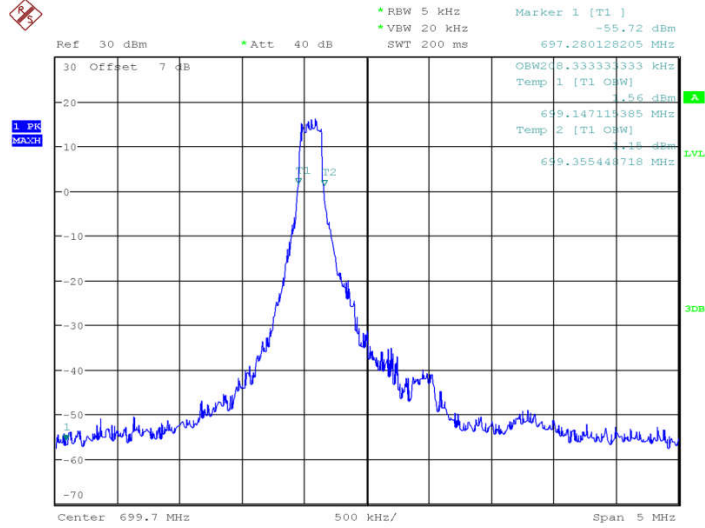
HIGH BAND EDGE BLOCK-20MHz-100%RB



IF Overload
 Date: 27.MAR.2018 12:22:46

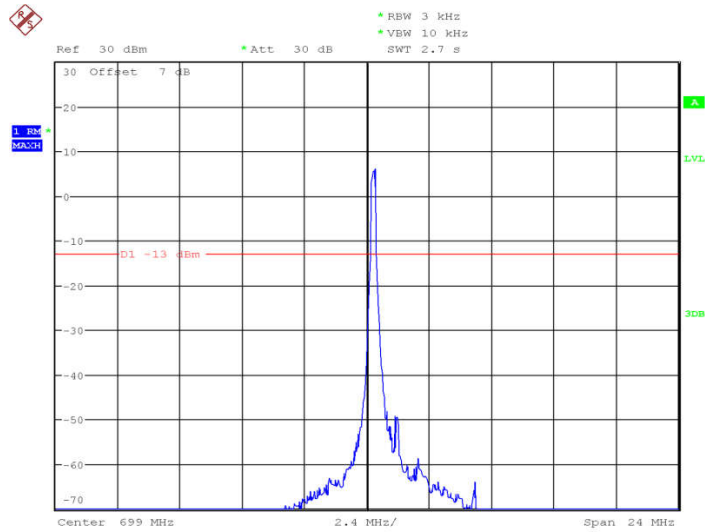
LTE band 12

OBW: 1RB-low_offset



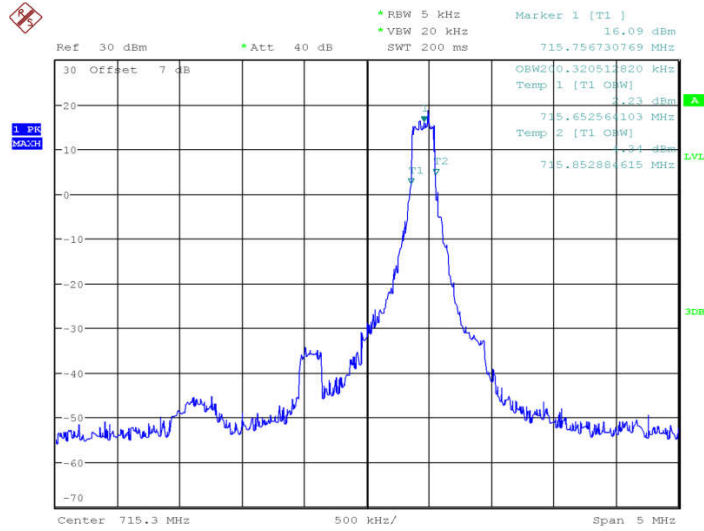
IF Overload
Date: 27.MAR.2018 14:22:34

LOW BAND EDGE BLOCK-1RB-low_offset



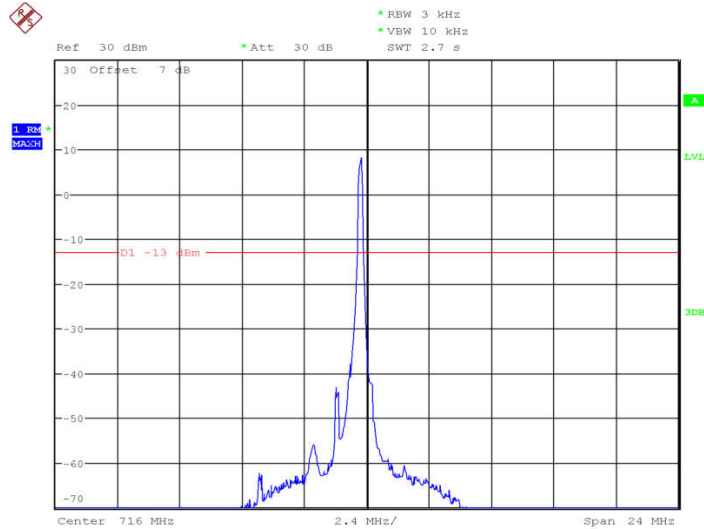
IF Overload
Date: 27.MAR.2018 14:22:57

OBW: 1RB-high_offset



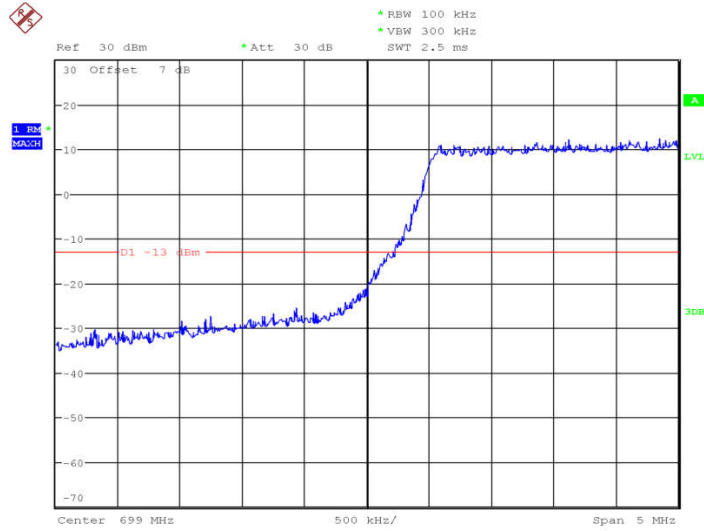
IF Overload
 Date: 27.MAR.2018 14:23:59

HIGH BAND EDGE BLOCK-1RB-high_offset



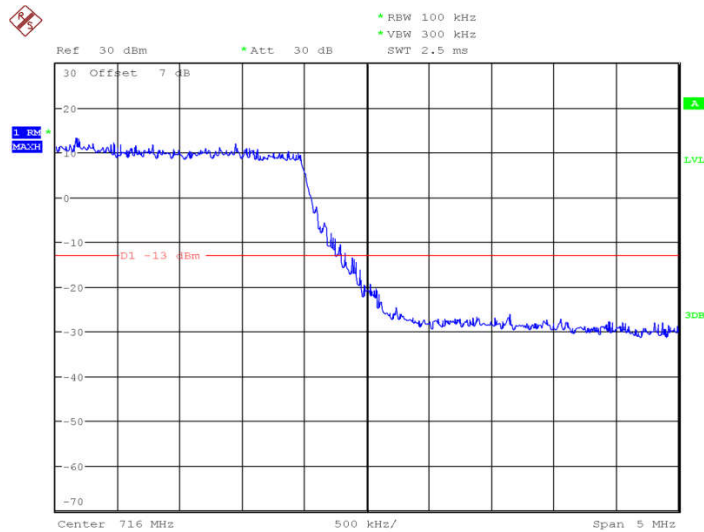
IF Overload
 Date: 27.MAR.2018 14:24:21

LOW BAND EDGE BLOCK-10MHz-100%RB



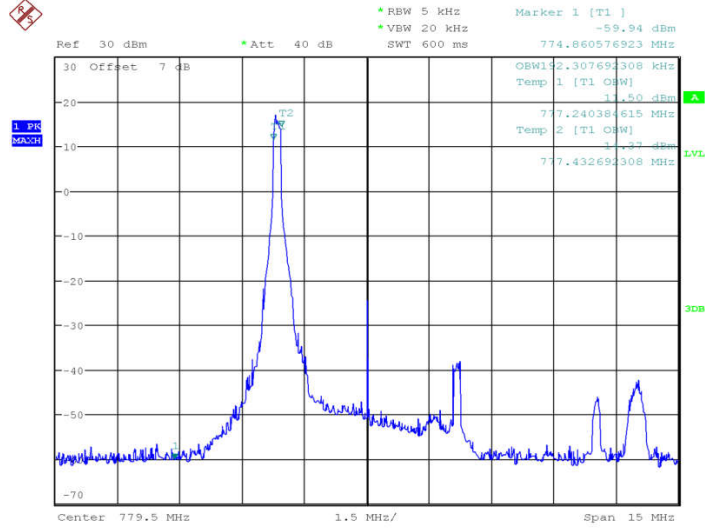
IF Overload
 Date: 27.MAR.2018 14:23:27

HIGH BAND EDGE BLOCK-10MHz-100%RB



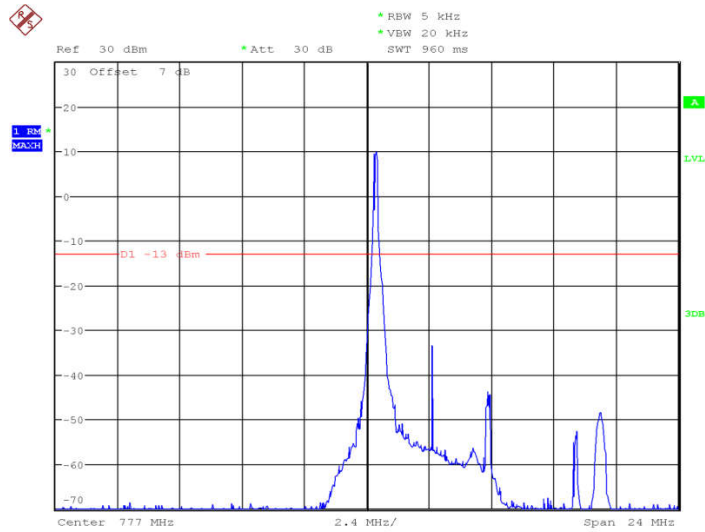
IF Overload
 Date: 27.MAR.2018 14:24:50

LTE band 13 OBW: 1RB-low_offset



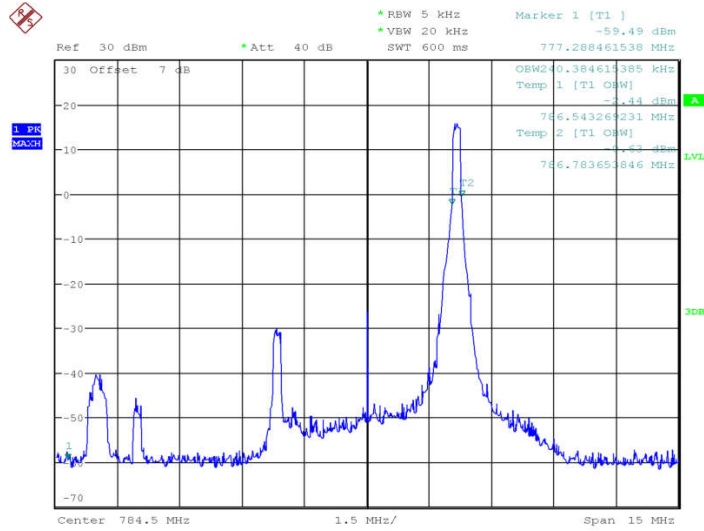
IF Overload
Date: 27.MAR.2018 14:42:01

LOW BAND EDGE BLOCK-1RB-low_offset



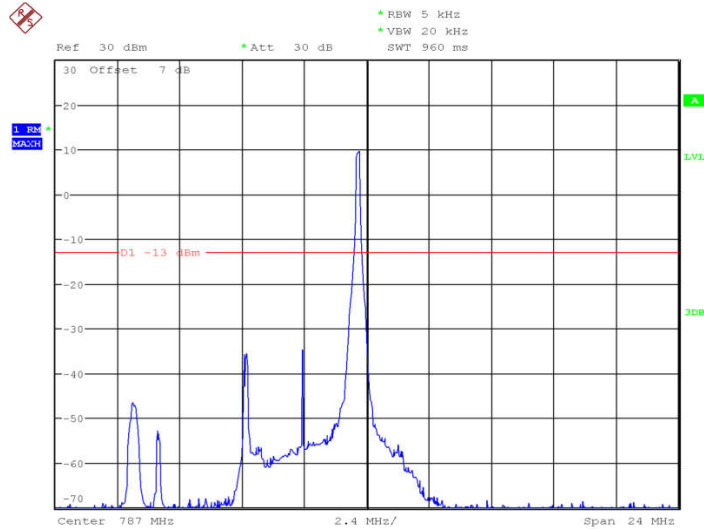
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OBW: 1RB-high_offset



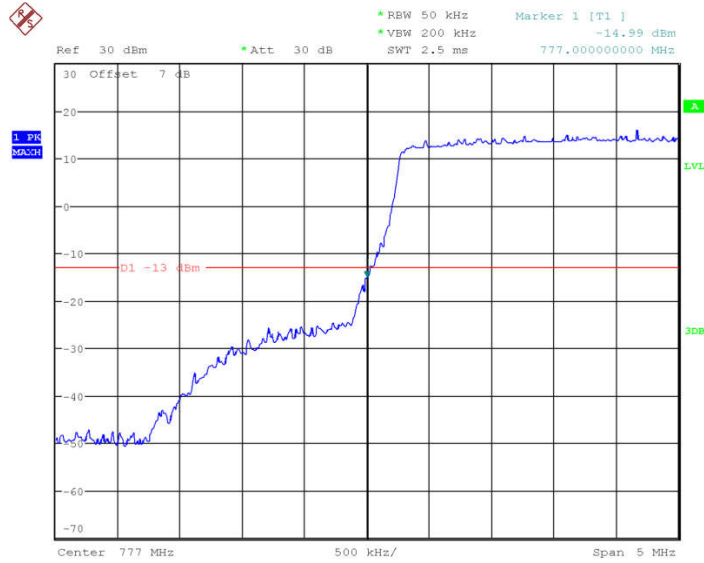
IF Overload
 Date: 27.MAR.2018 14:43:44

HIGH BAND EDGE BLOCK-1RB-high_offset



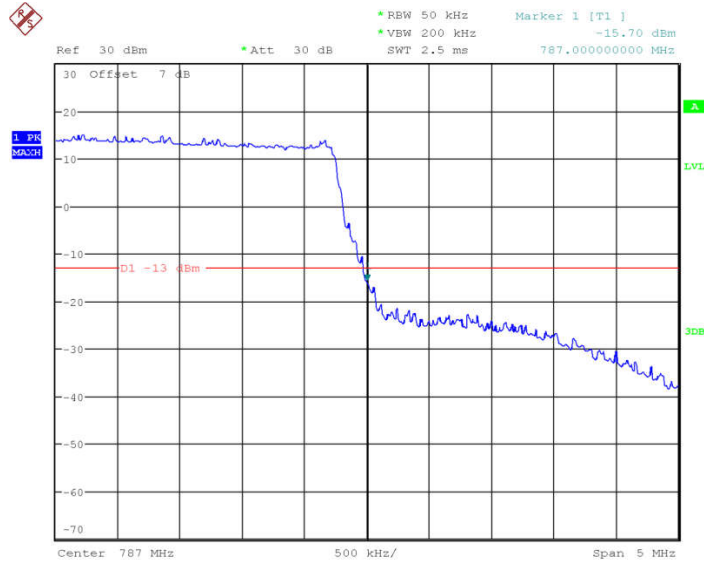
IF Overload
 Date: 27.MAR.2018 14:44:06

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 1.JAN.2003 08:55:27

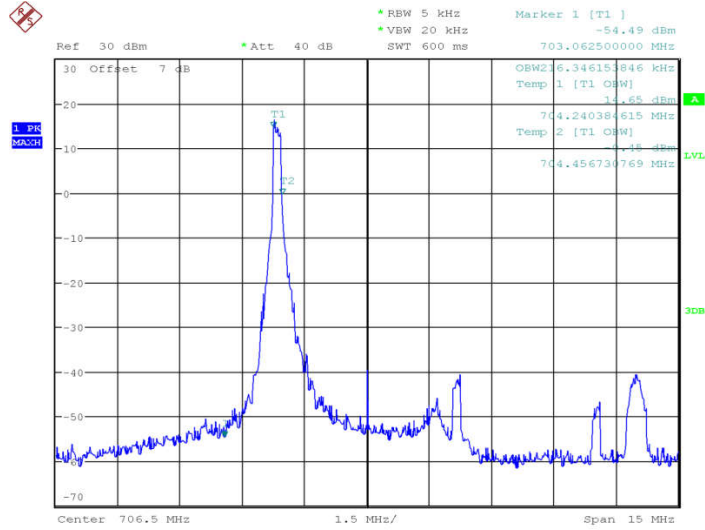
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 1.JAN.2003 08:58:48

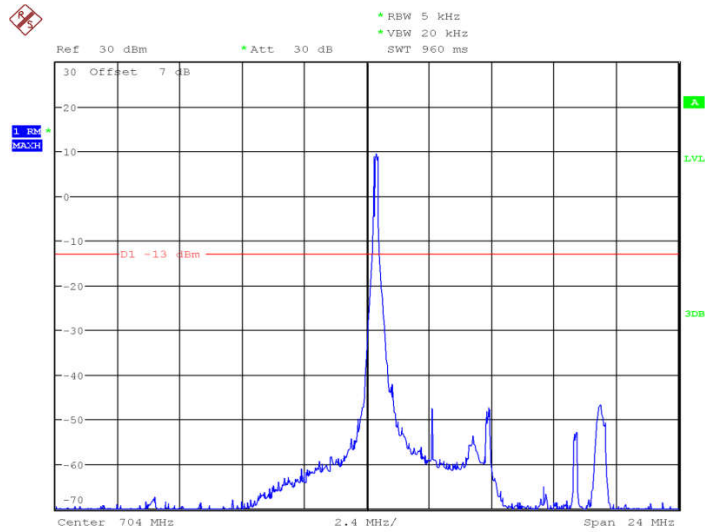
LTE band 17

OBW: 1RB-low_offset



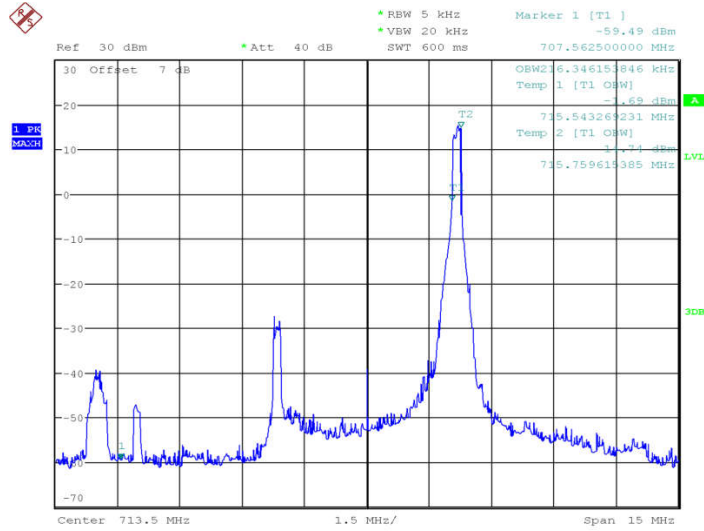
IF Overload
Date: 27.MAR.2018 14:58:32

LOW BAND EDGE BLOCK-1RB-low_offset



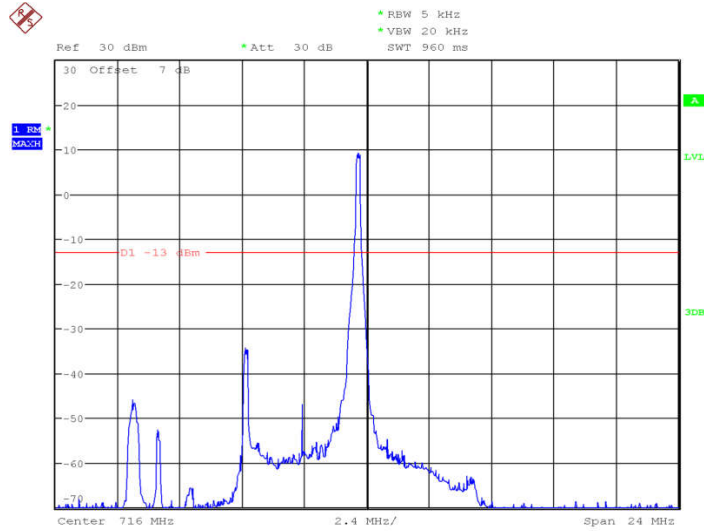
IF Overload
Date: 27.MAR.2018 14:58:54

OBW: 1RB-high_offset



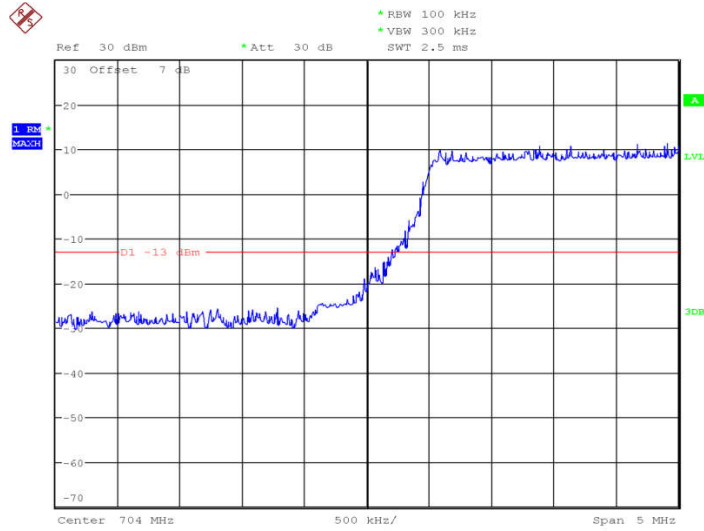
IF Overload
Date: 27.MAR.2018 14:59:59

HIGH BAND EDGE BLOCK-1RB-high_offset



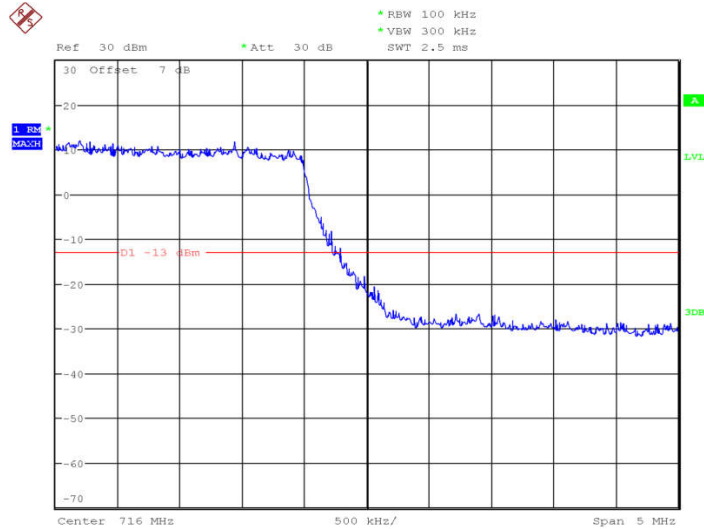
IF Overload
Date: 27.MAR.2018 15:00:21

LOW BAND EDGE BLOCK-QPSK-10MHz-100%RB



IF Overload
 Date: 27.MAR.2018 14:59:27

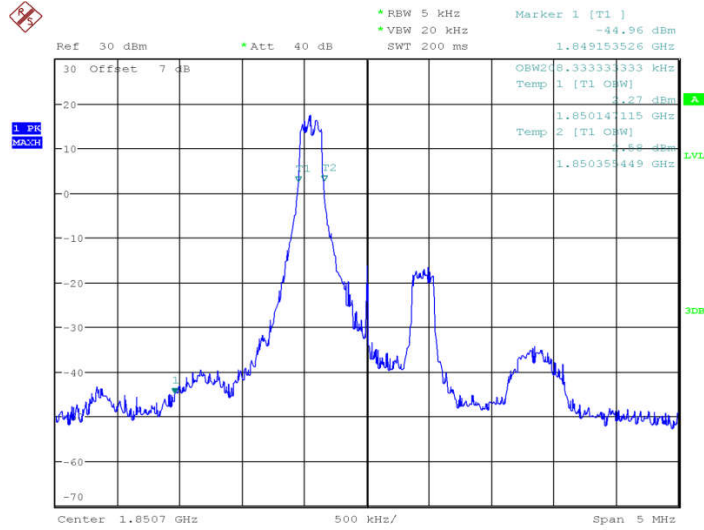
HIGH BAND EDGE BLOCK-QPSK-10MHz-100%RB



IF Overload
 Date: 27.MAR.2018 15:00:51

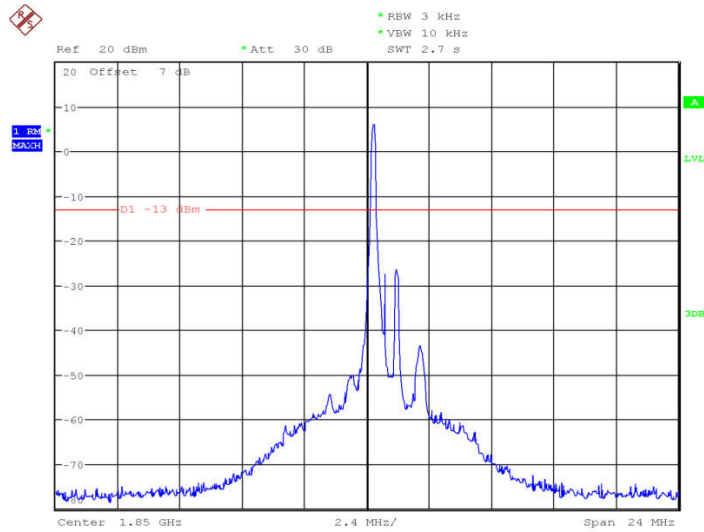
LTE band 25

OBW: 1RB-low_offset



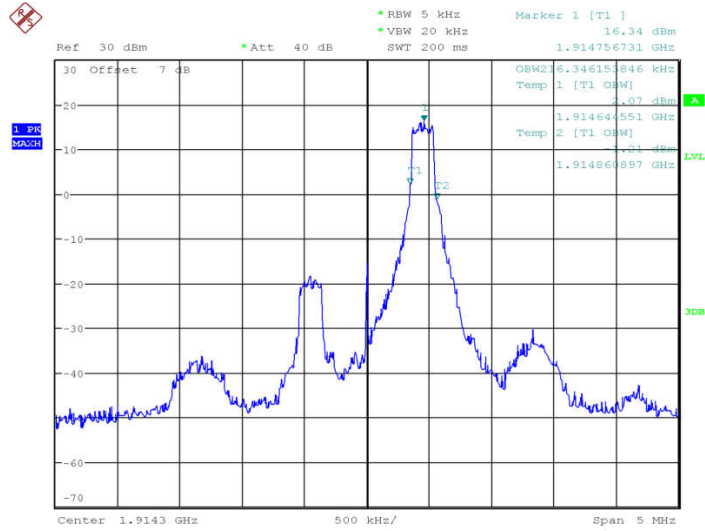
IF Overload
 Date: 27.MAR.2018 17:19:18

LOW BAND EDGE BLOCK-1RB-low_offset



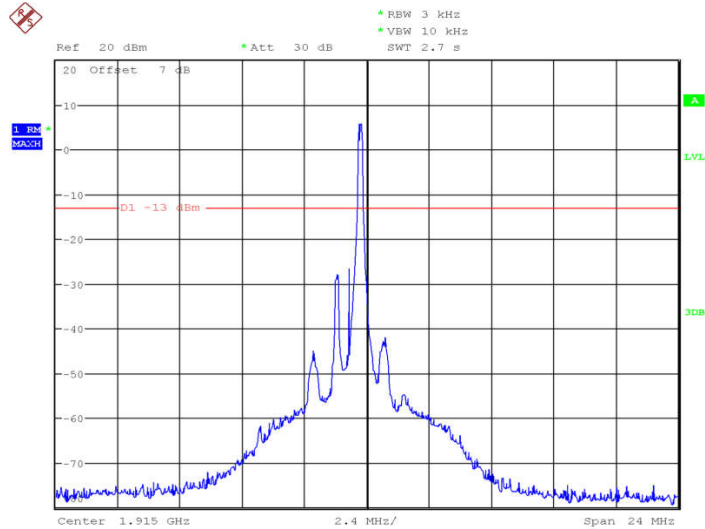
IF Overload
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OBW: 1RB-high_offset



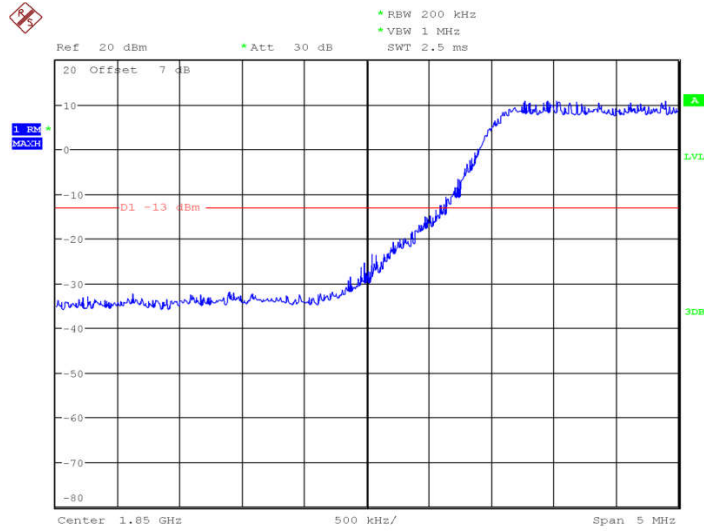
IF Overload
Date: 27.MAR.2018 17:20:47

HIGH BAND EDGE BLOCK-1RB-high_offset



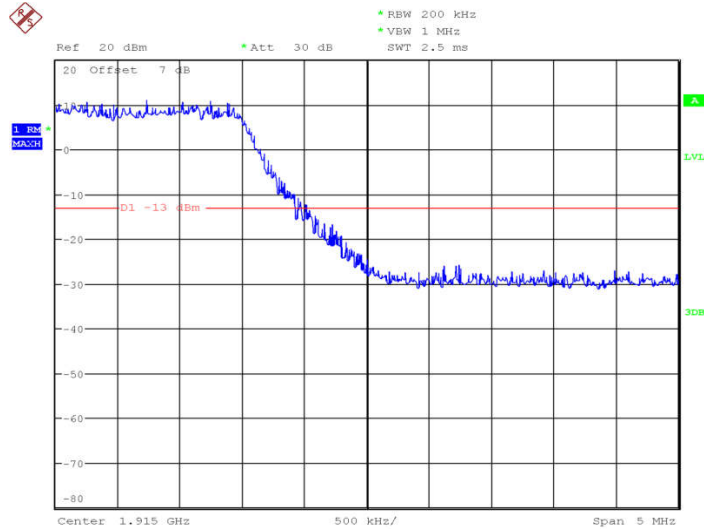
IF Overload
Date: 27.MAR.2018 17:21:09

LOW BAND EDGE BLOCK-QPSK-10MHz-100%RB



IF Overload
 Date: 27.MAR.2018 17:20:15

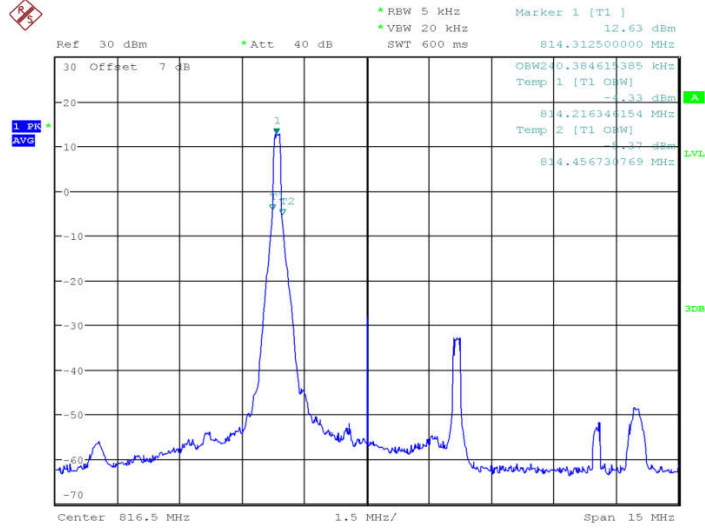
HIGH BAND EDGE BLOCK-QPSK-10MHz-100%RB



IF Overload
 Date: 27.MAR.2018 17:21:39

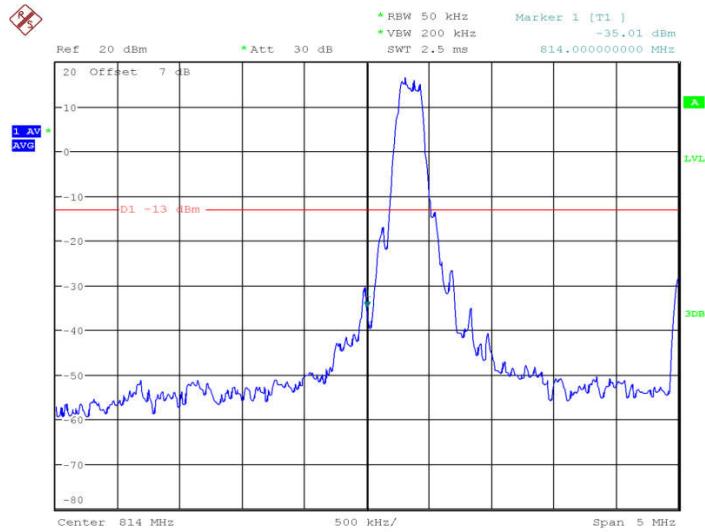
LTE band 26

OBW: 1RB-low_offset



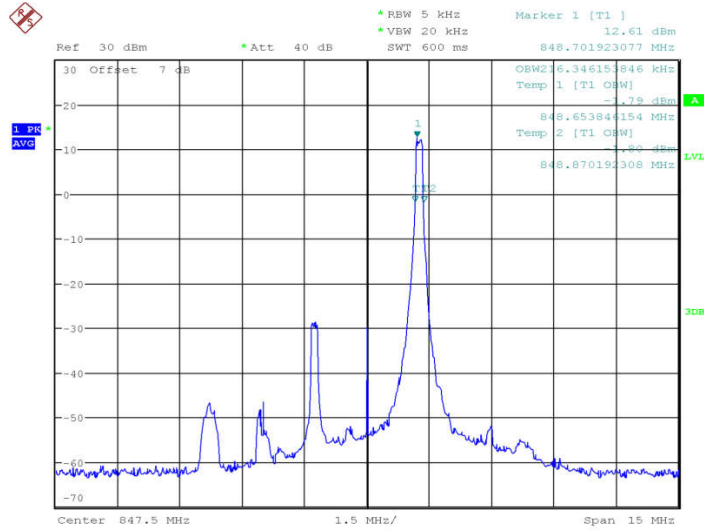
IF Overload
Date: 1.JAN.2003 02:04:44

LOW BAND EDGE BLOCK-1RB-low_offset



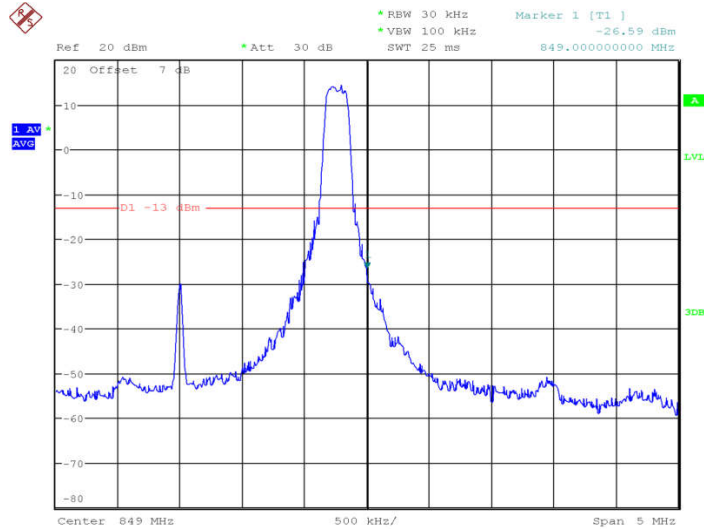
IF Overload
Date: 1.JAN.2003 02:05:13

OBW: 1RB-high_offset



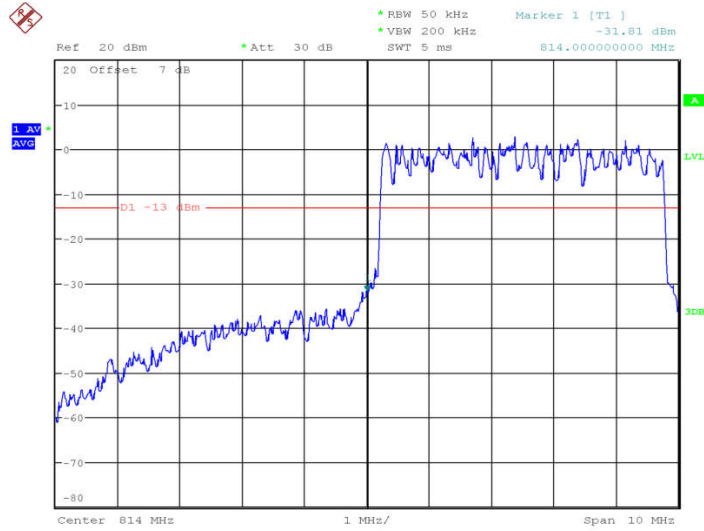
IF Overload
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HIGH BAND EDGE BLOCK-1RB-high_offset



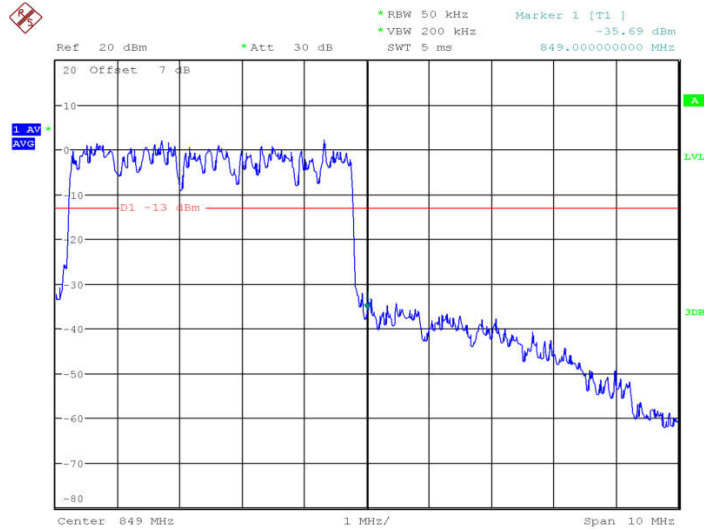
IF Overload
 Date: 1.JAN.2003 02:07:09

LOW BAND EDGE BLOCK-QPSK-10MHz-100%RB



IF Overload
 Date: 1.JAN.2003 02:05:50

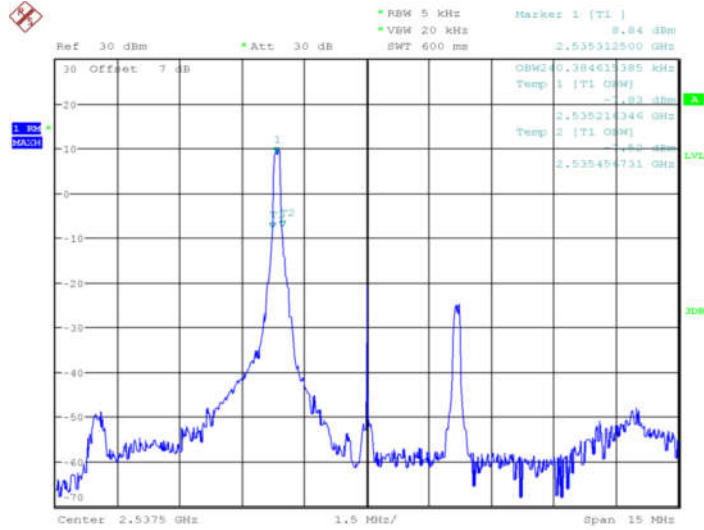
HIGH BAND EDGE BLOCK-QPSK-10MHz-100%RB



IF Overload
 Date: 1.JAN.2003 02:11:52

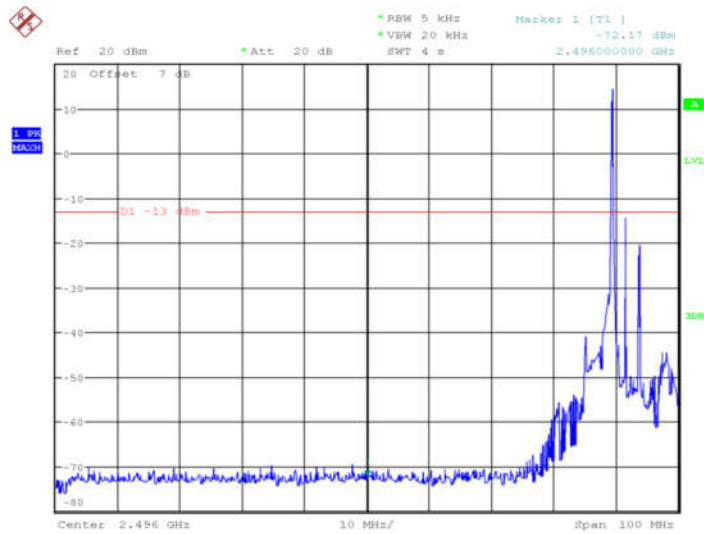
LTE band 41

OBW: 1RB-low_offset



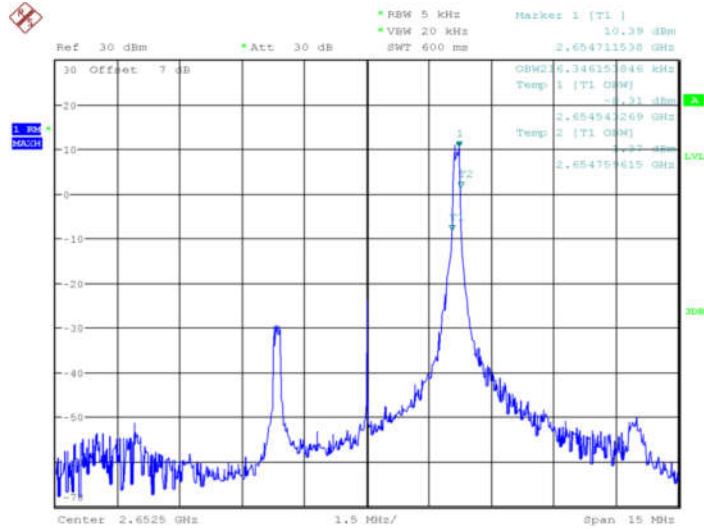
IF Overload
Date: 1.JAN.2003 08:36:48

LOW BAND EDGE BLOCK-1RB-low_offset



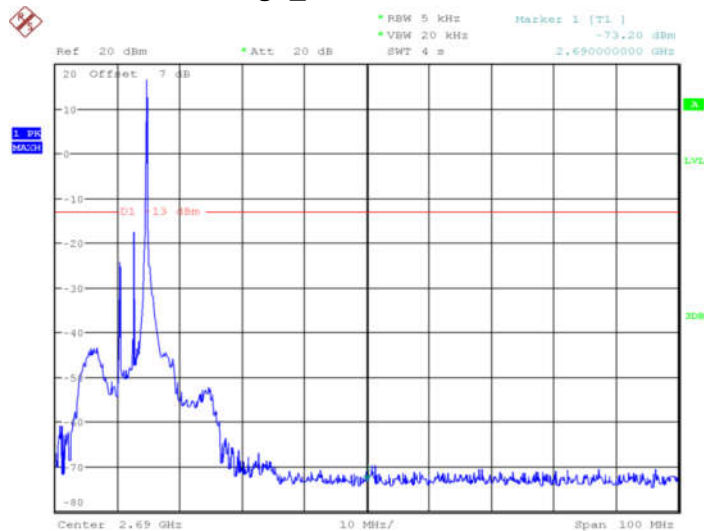
IF Overload
Date: 1.JAN.2003 08:51:25

OBW: 1RB-high_offset



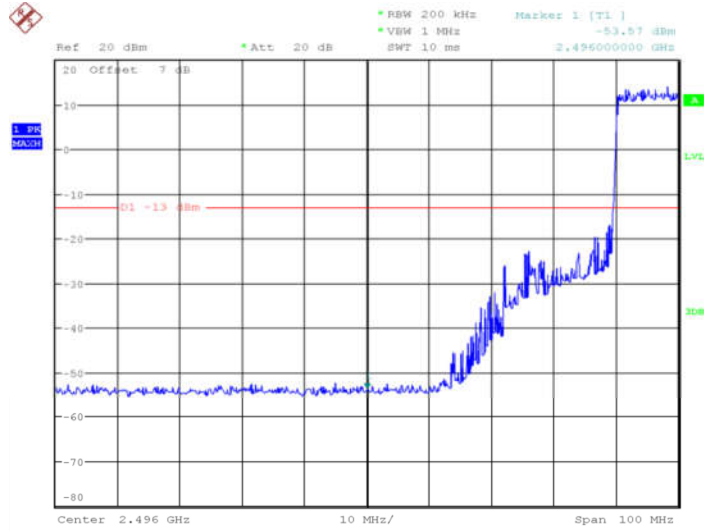
IF Overload
Date: 1.JAN.2003 08:38:46

HIGH BAND EDGE BLOCK-1RB-high_offset



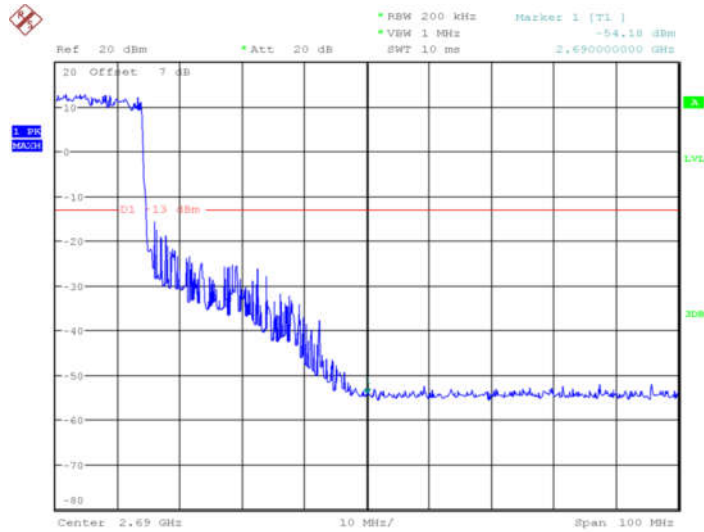
IF Overload
Date: 1.JAN.2003 08:48:36

LOW BAND EDGE BLOCK-20MHz-100%RB



IF Overload
Date: 1.JAN.2003 08:54:26

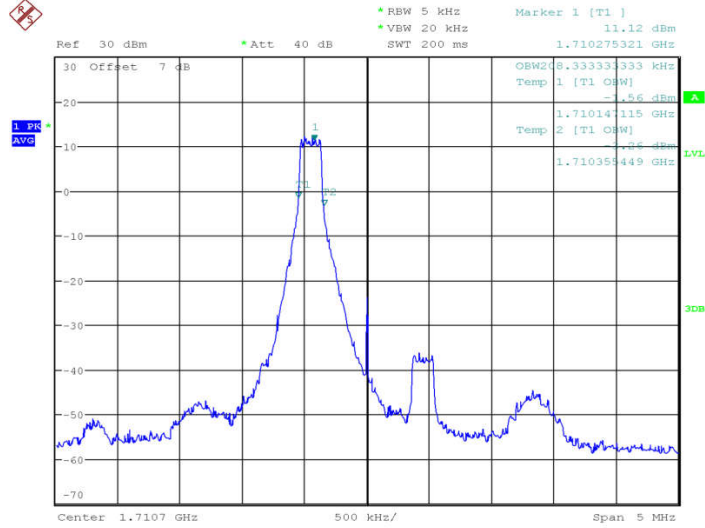
HIGH BAND EDGE BLOCK-20MHz-100%RB



IF Overload
Date: 1.JAN.2003 08:55:45

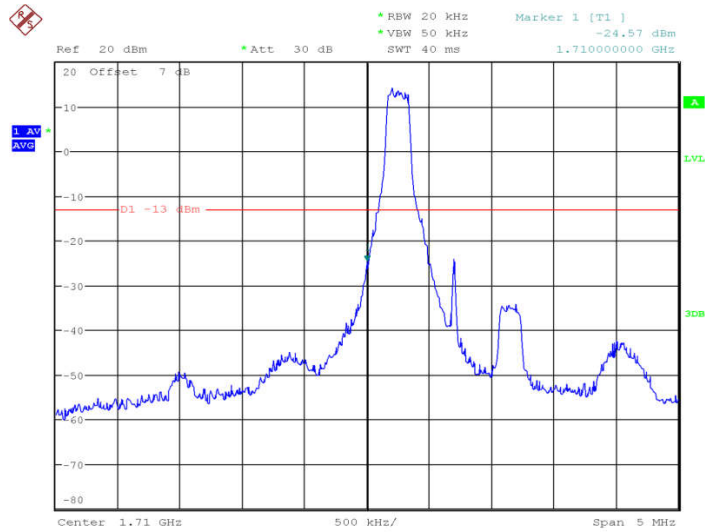
LTE band 66

OBW: 1RB-low_offset



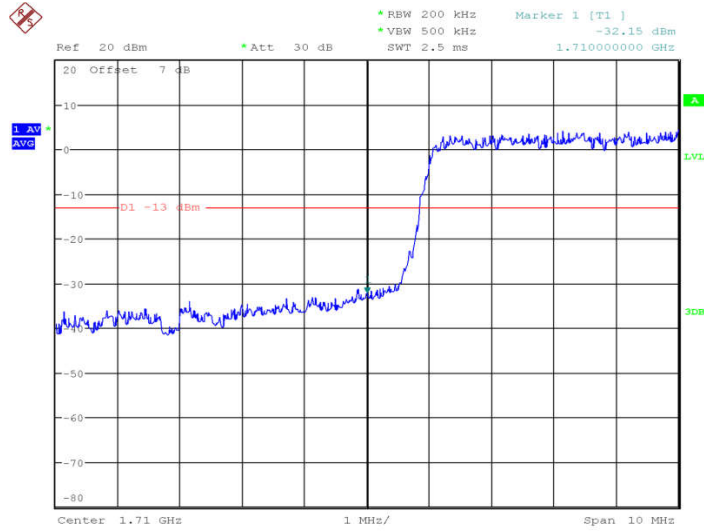
IF Overload
 Date: 1.JAN.2003 08:23:08

LOW BAND EDGE BLOCK-1RB-low_offset



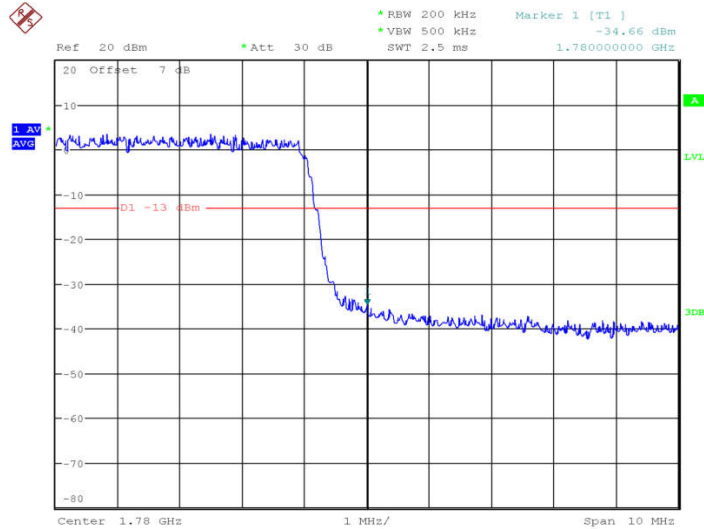
IF Overload
 Date: 1.JAN.2003 08:23:38

LOW BAND EDGE BLOCK-QPSK-10MHz-100%RB



IF Overload
 Date: 1.JAN.2003 08:37:12

HIGH BAND EDGE BLOCK-QPSK-10MHz-100%RB



IF Overload
 Date: 1.JAN.2003 08:39:54

ANNEX A.7. CONDUCTED SPURIOUS EMISSION**Reference**

FCC: CFR Part 22.917(b),24.238(a), 27.53(g),27.53(h), 27.53(m)

A.7.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 9 GHz, data taken from 10 MHz to 25 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is set to 30001 which is greater than span/RBW.

A. 7.2 Measurement Limit

Part 22.917(b),24.238(a), 27.53(g),27.53(h), 27.53(m) specify that the power of any emission 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.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

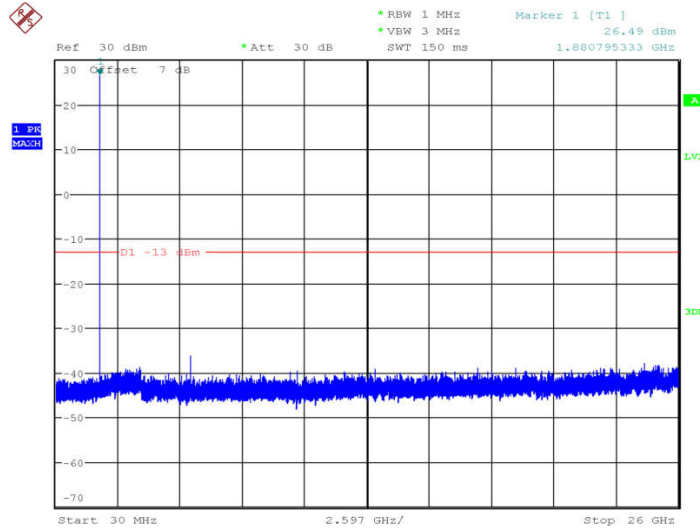
Part 27.53(m)(4) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge,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

A. 7.3 Measurement result

Only worst case result is given below

LTE band 2: 30MHz – 26GHz

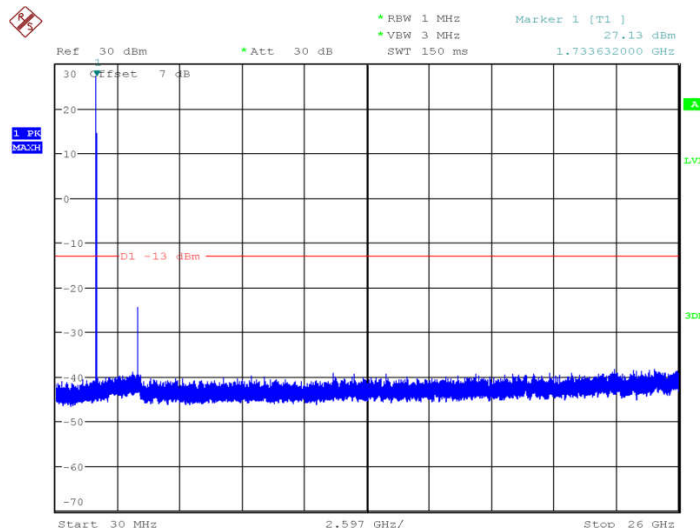
Spurious emission limit -13dBm.



IF Overload
Date: 24.MAR.2018 15:47:48

LTE band 4: 30MHz – 26GHz

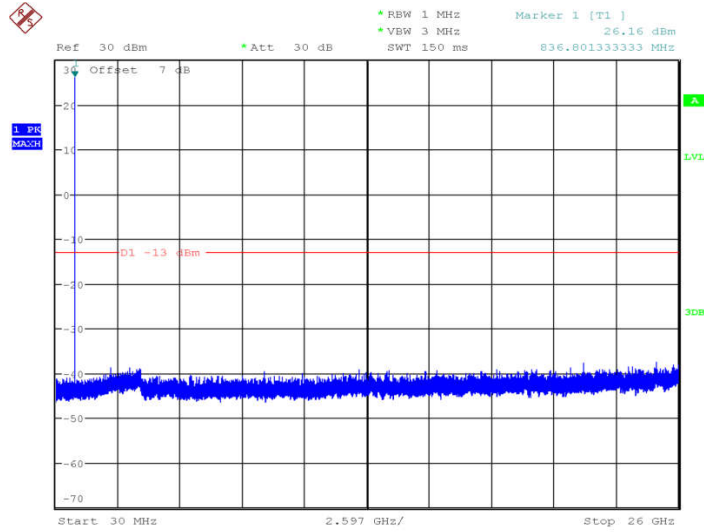
Spurious emission limit -13dBm.



IF Overload
Date: 24.MAR.2018 15:48:15

LTE band 5: 30MHz – 26GHz

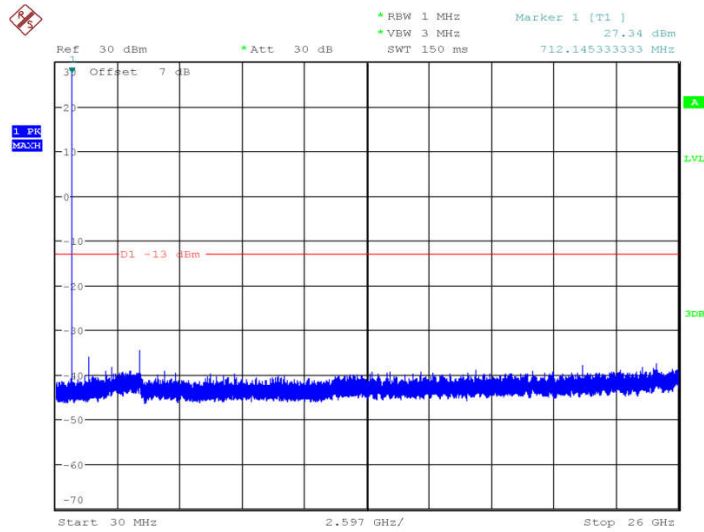
Spurious emission limit –13dBm.



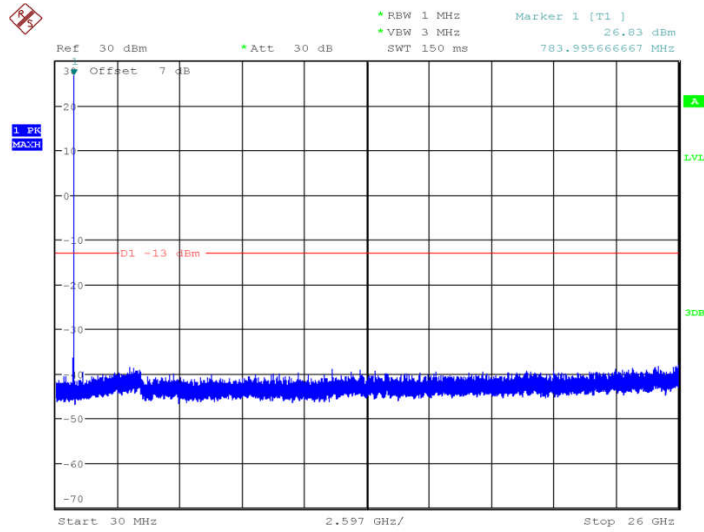
IF Overload
 Date: 24.MAR.2018 15:48:42

LTE band 7: 30MHz – 26GHz

Spurious emission limit –13dBm.

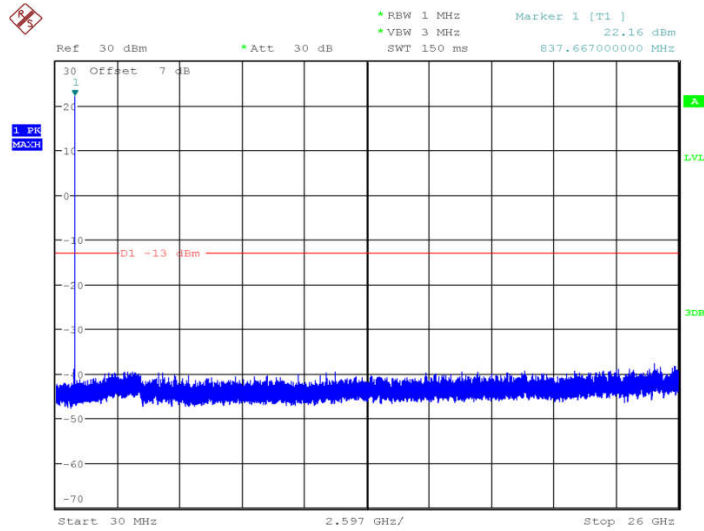


IF Overload
 Date: 24.MAR.2018 15:54:33



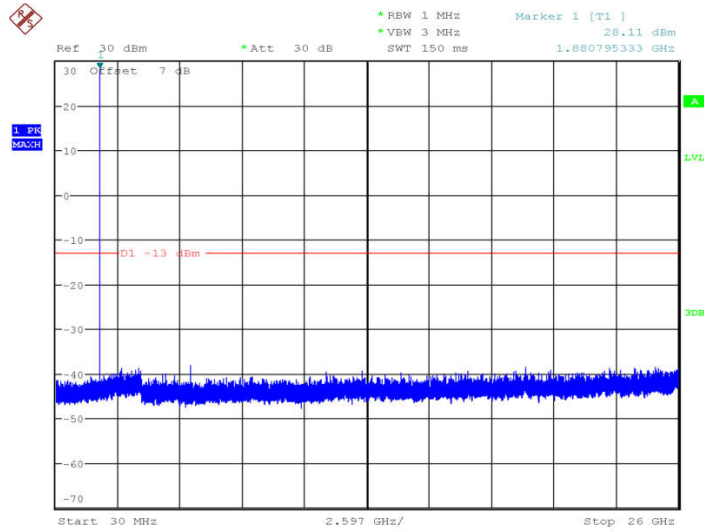
IF Overload
Date: 24.MAR.2018 15:53:54

LTE band 25: 30MHz – 26GHz
Spurious emission limit –13dBm.



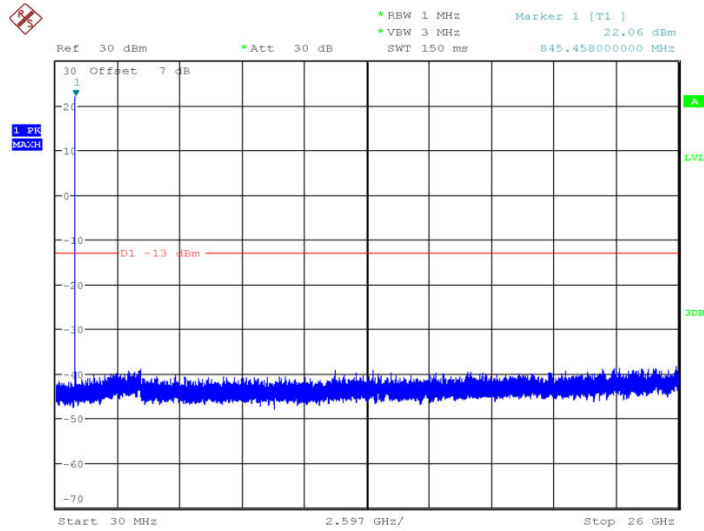
IF Overload
Date: 27.MAR.2018 16:29:49

LTE band 26: 30MHz – 26GHz
Spurious emission limit –13dBm.



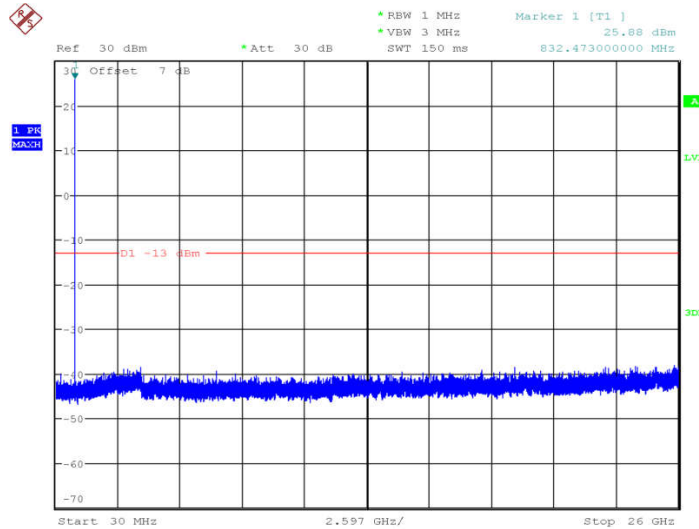
IF Overload
Date: 6.JAN.2003 06:20:57

LTE band 41: 30MHz – 26GHz
Spurious emission limit –13dBm.



IF Overload
Date: 27.MAR.2018 17:01:48

LTE band 66: 30MHz – 26GHz
Spurious emission limit –13dBm.



IF Overload
Date: 24.MAR.2018 15:50:33

ANNEX A.8. PEAK-TO-AVERAGE POWER RATIO

Reference

FCC: CFR Part 24.232 (d), 27.50(a)

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

According to KDB 971168 5.7:

- Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Set the measurement interval to 1 ms
- Record the maximum PAPR level associated with a probability of 0.1%

A.8.1 Measurement limit

not exceed 13 dB

A.8.2 Measurement results

LTE band 2, 20MHz

Frequency(MHz)	PAPR(dB)	
1880.0	QPSK	16QAM

	5.48	6.41
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LTE band 4, 20MHz

Frequency(MHz)	PAPR(dB)	
1732.5	QPSK	16QAM
	5.26	6.12

LTE band5, 10MHz

Frequency(MHz)	PAPR(dB)	
836.5	QPSK	16QAM
	5.19	5.96

LTE band 7, 20MHz

Frequency(MHz)	PAPR(dB)	
2535.0	QPSK	16QAM
	5.13	6.03

LTE band 12,10MHz

Frequency(MHz)	PAPR(dB)	
707.5	QPSK	16QAM
	5.16	6.03

LTE band 13,10MHz

Frequency(MHz)	PAPR(dB)	
782.0	QPSK	16QAM
	5.57	6.25

LTE band 17,10MHz

Frequency(MHz)	PAPR(dB)	
710.0	QPSK	16QAM
	5.03	5.9

LTE band 25,10MHz

Frequency(MHz)	PAPR(dB)	
1882.5	QPSK	16QAM
	5.46	6.16

LTE band 26,15MHz

Frequency(MHz)	PAPR(dB)	
831.5	QPSK	16QAM
	5.09	6.35

LTE band 41, 20MHz

Frequency(MHz)	PAPR(dB)	
2593.0	QPSK	16QAM
	5.07	6.46

LTE band 66,20MHz

Frequency(MHz)	PAPR(dB)	
1745.0	QPSK	16QAM
	5.25	6.58

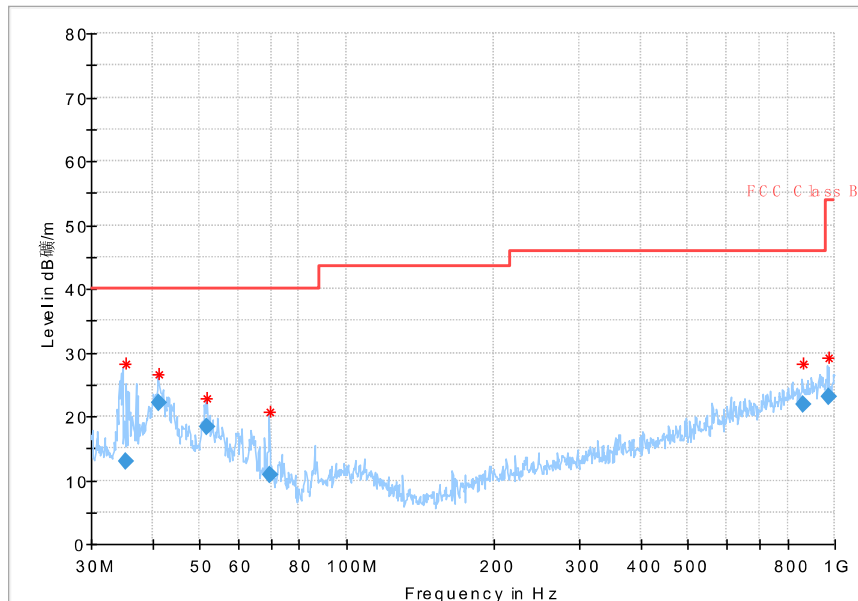
ANNEX A.1. RECEIVER RADIATION EMISSION

A.9.1 Method of Measurement

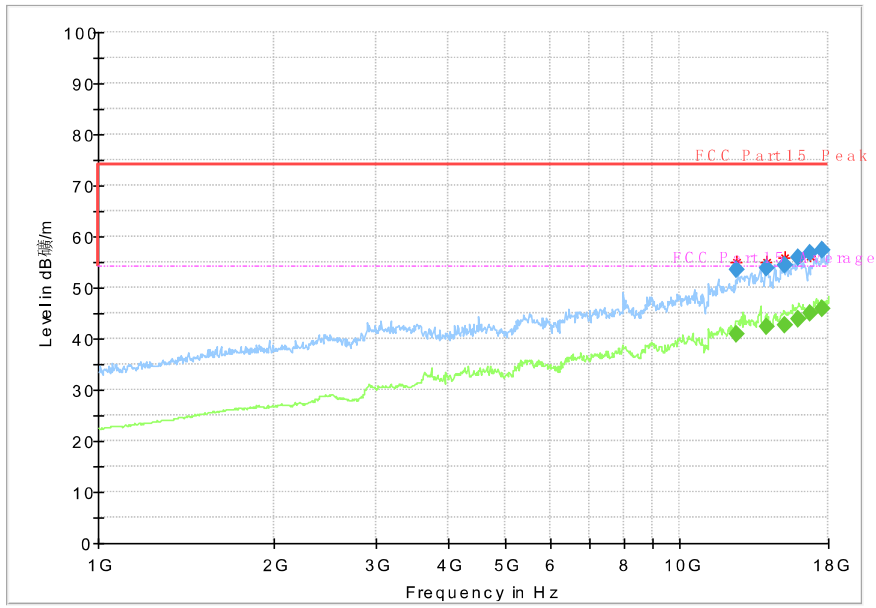
The EUT is placed on a 80cm height non-conductive table locating on the center of turntable. From 30MHz-1GHz, the measurement distance is 10m. For frequency range above 1GHz, the measurement distance is 3m.

The EUT is measured with travel charger and the operating mode is idle without CMW500's signaling.

A. 9.2 Measurement results



Idle Mode: 30MHz-1GHz



Idle Mode: 1GHz-18GHz

ANNEX B. Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

ANNEX C. Accreditation Certificate



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