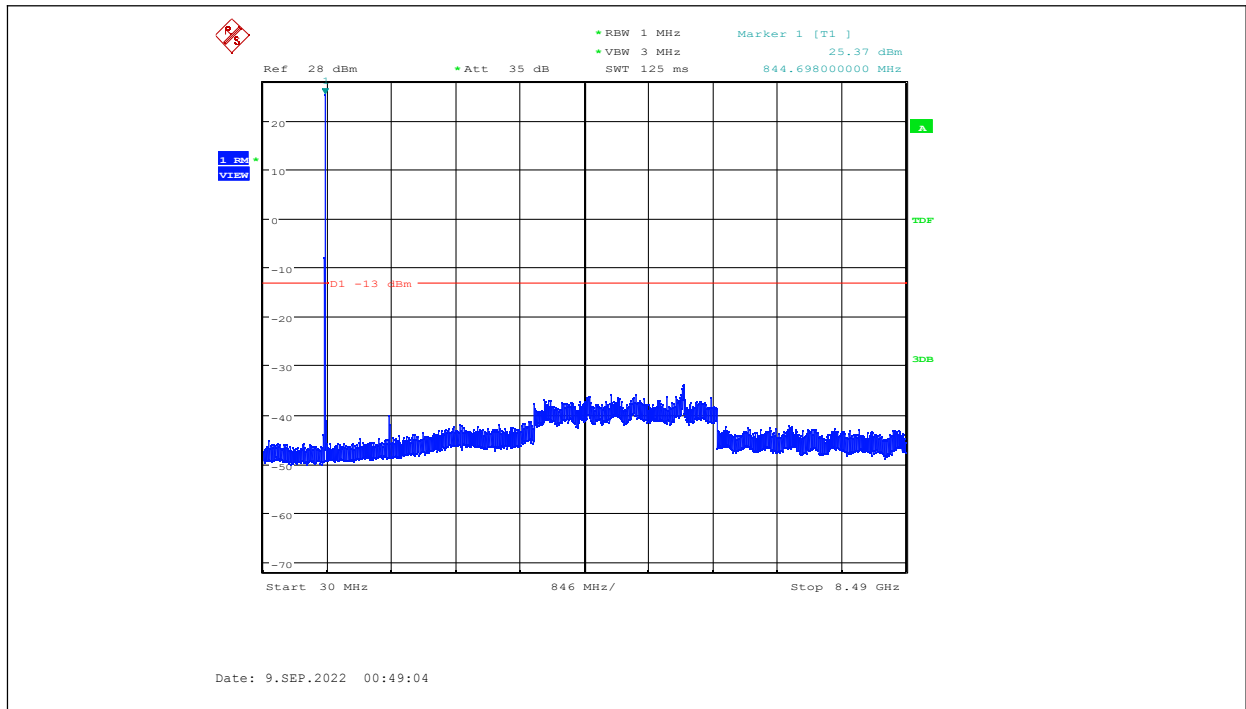
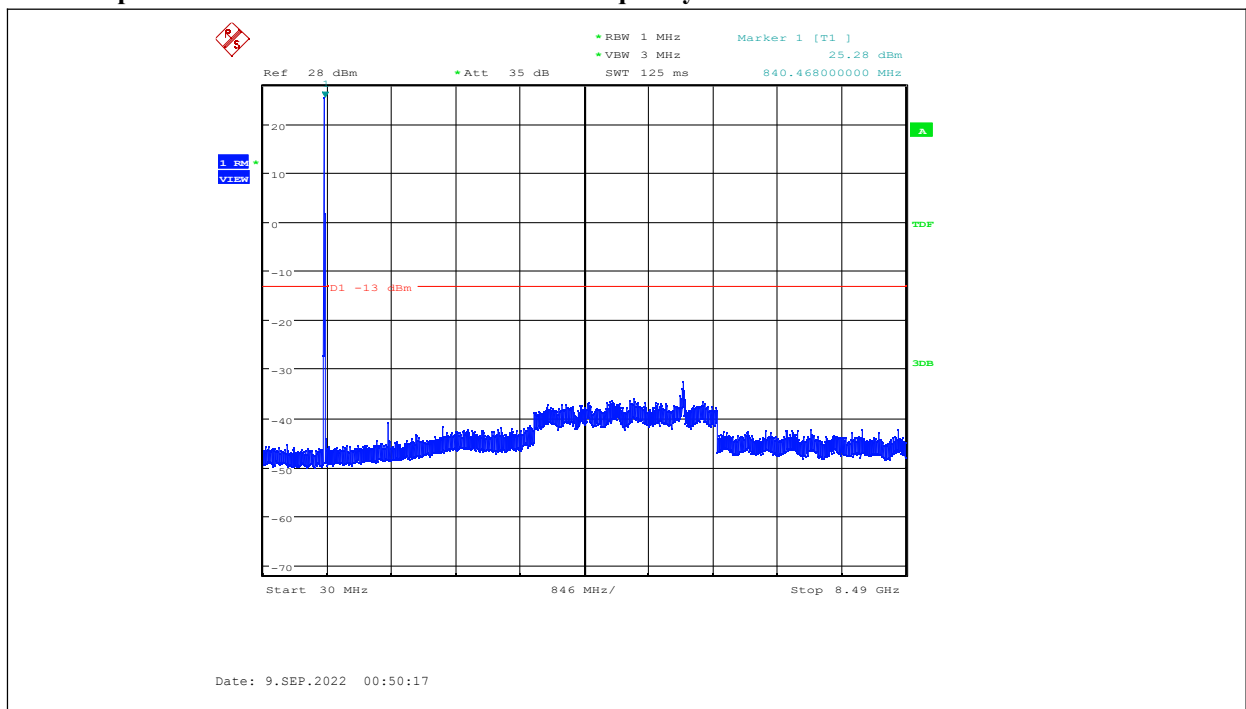




LTE band 5-10MHz-QPSK-Mid

NOTE: peak above the limit line is the carrier frequency.

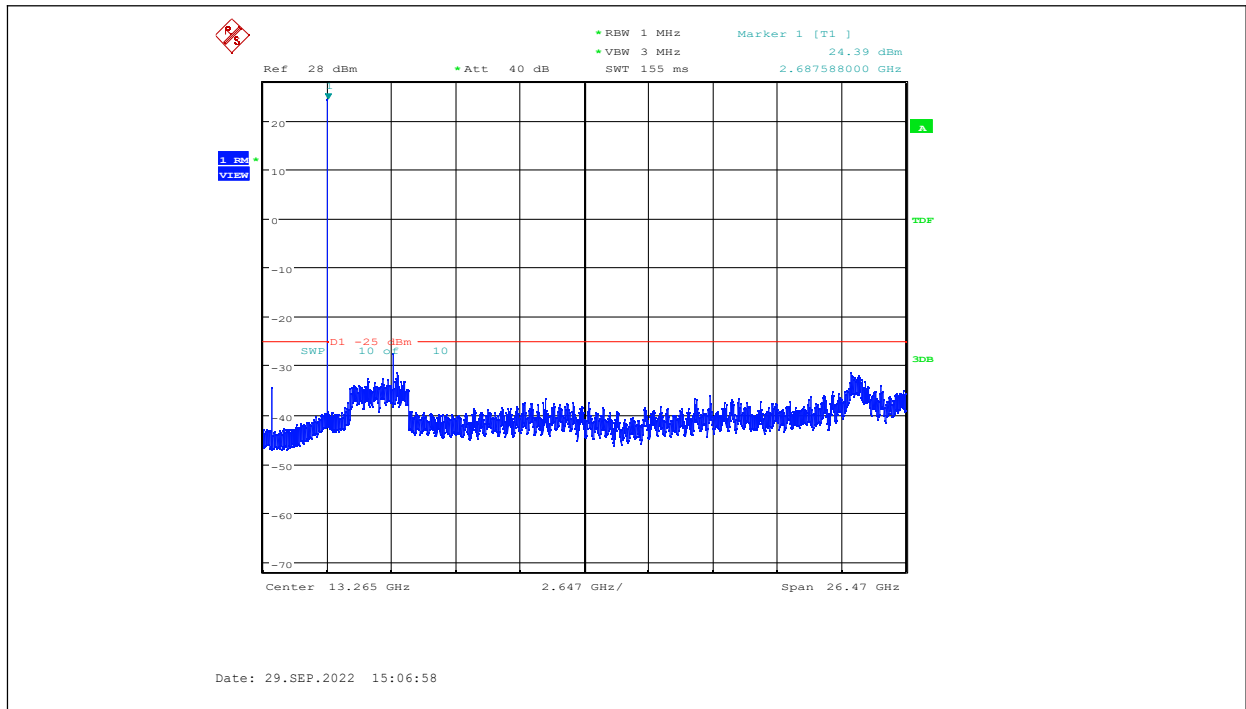


LTE band 41-5MHz-QPSK-High

NOTE: peak above the limit line is the carrier frequency.

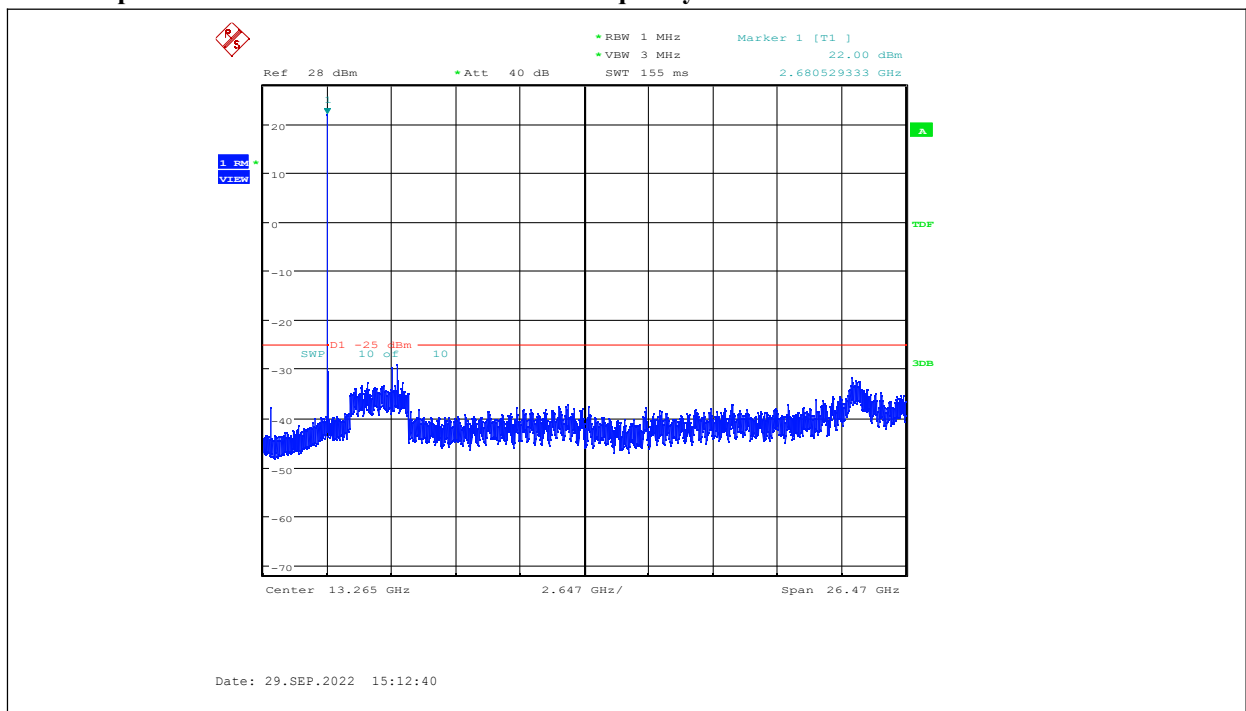
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LTE band 41-10MHz-QPSK-High

NOTE: peak above the limit line is the carrier frequency.

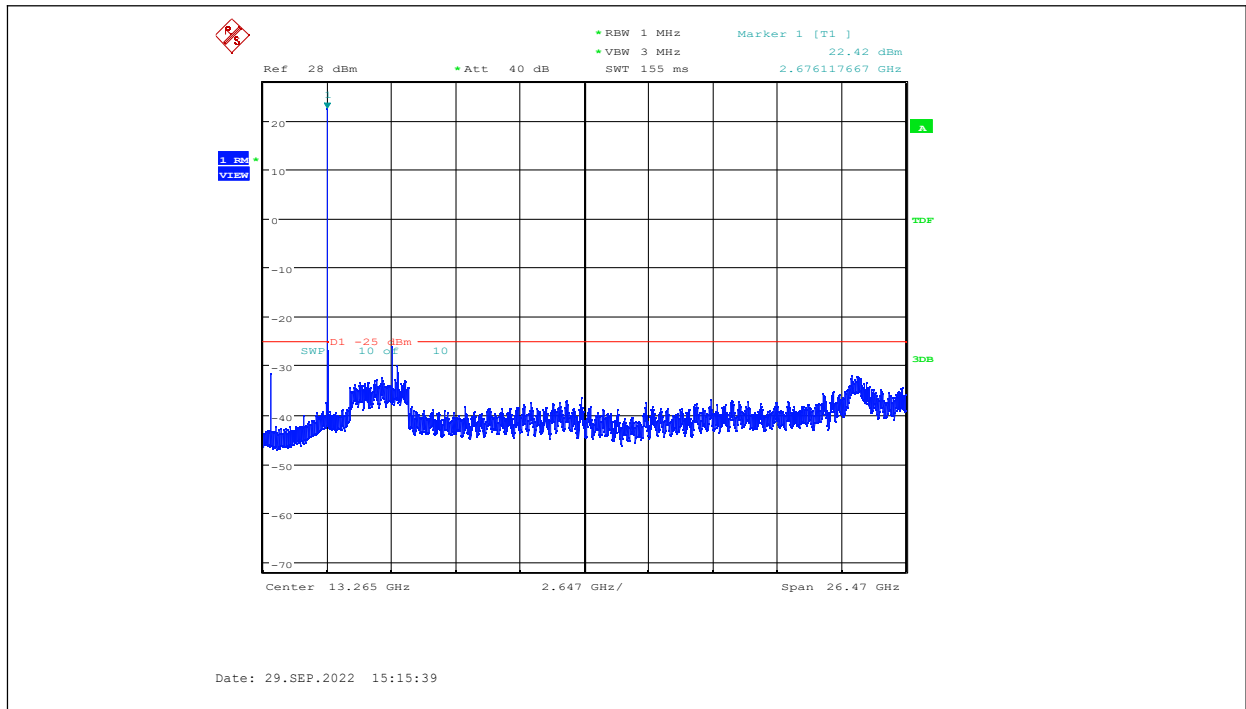


LTE band 41-15MHz-QPSK-High

NOTE: peak above the limit line is the carrier frequency.

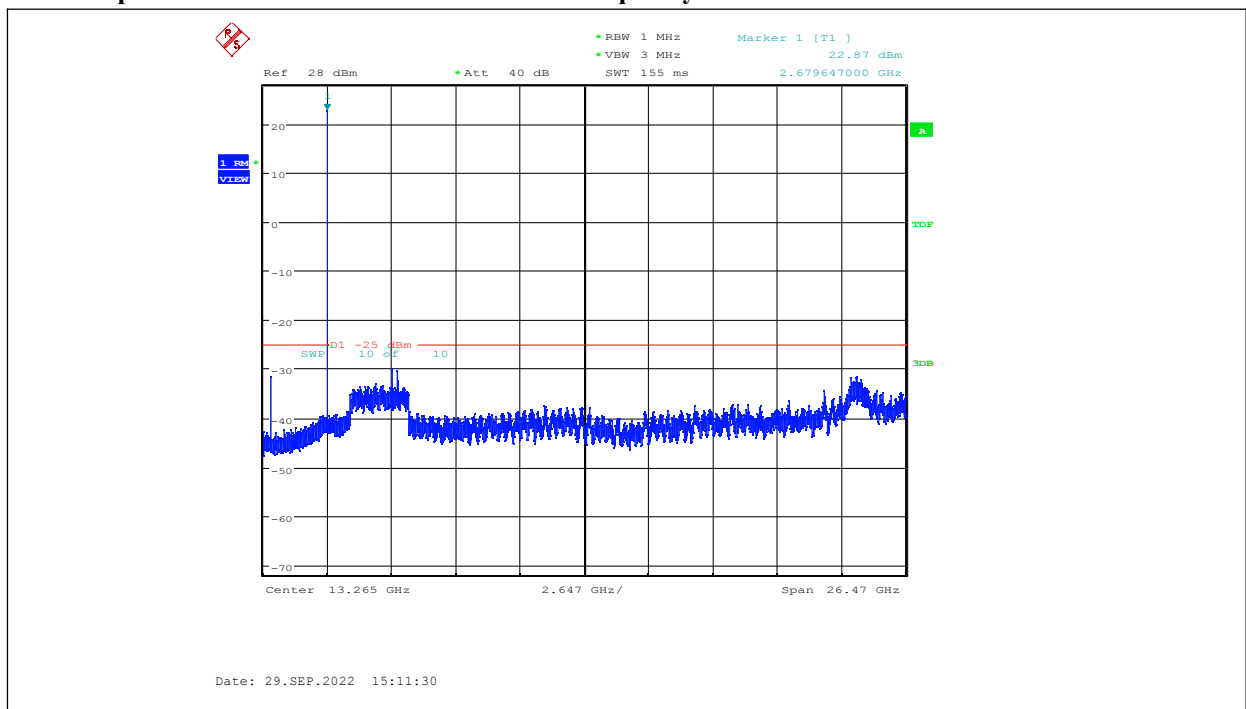
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LTE band 41-20MHz-QPSK-High

NOTE: peak above the limit line is the carrier frequency.

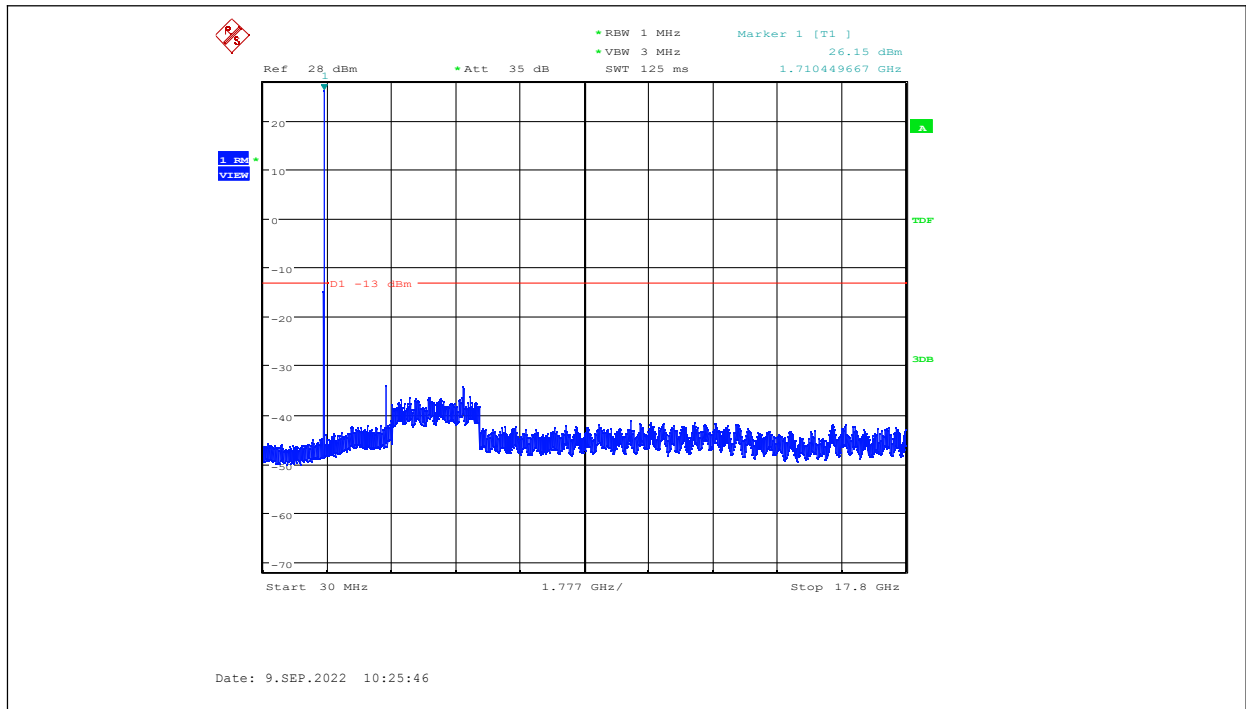


LTE band 66-1.4MHz-16QAM-Low

NOTE: peak above the limit line is the carrier frequency.

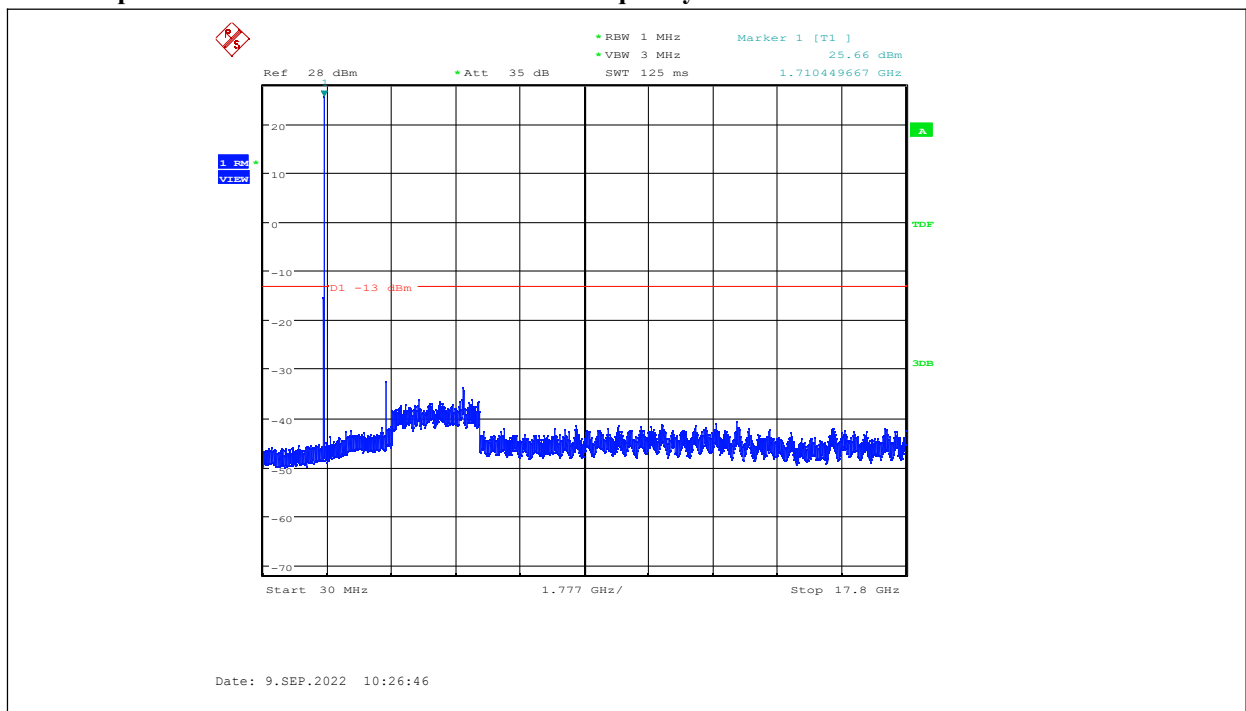
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LTE band 66-3MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

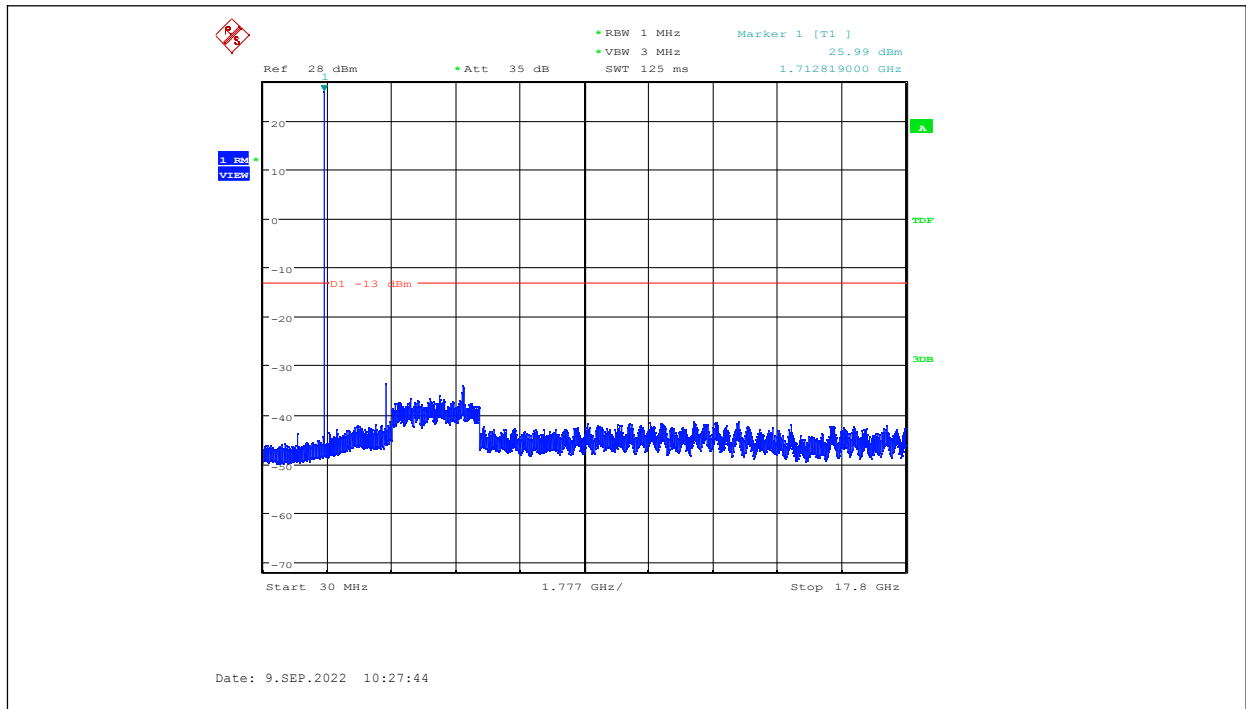


LTE band 66-5MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

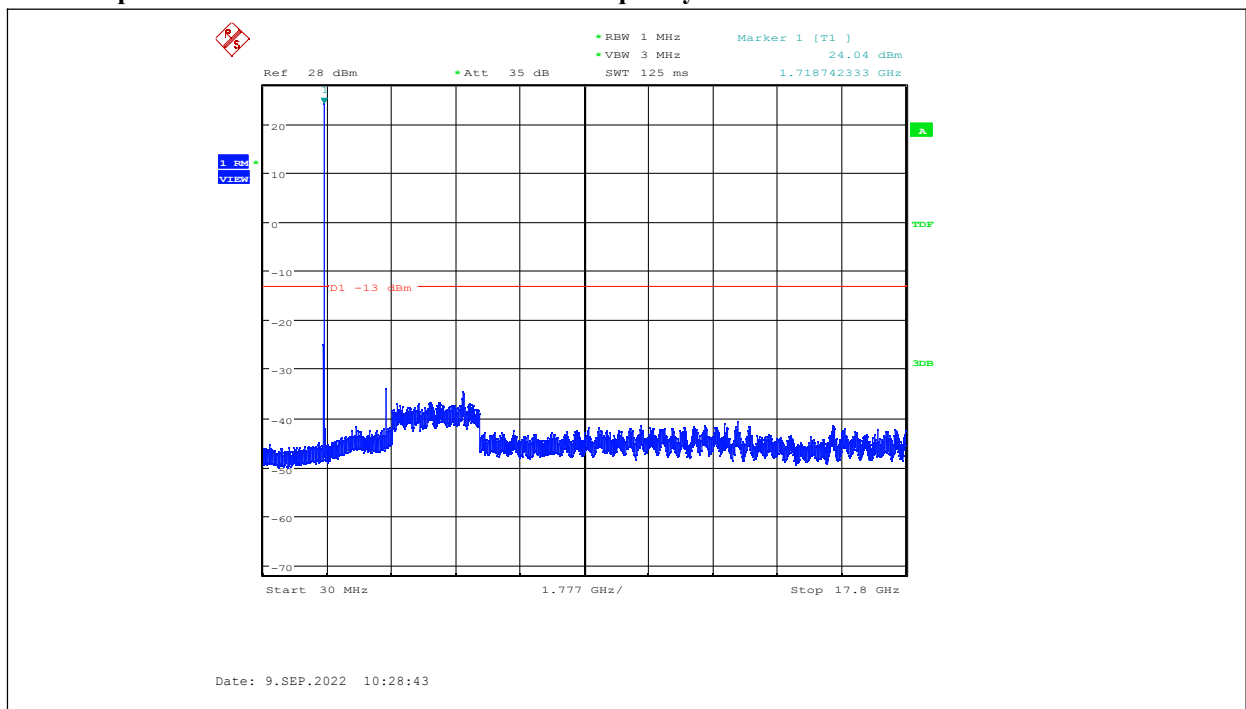
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LTE band 66-10MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

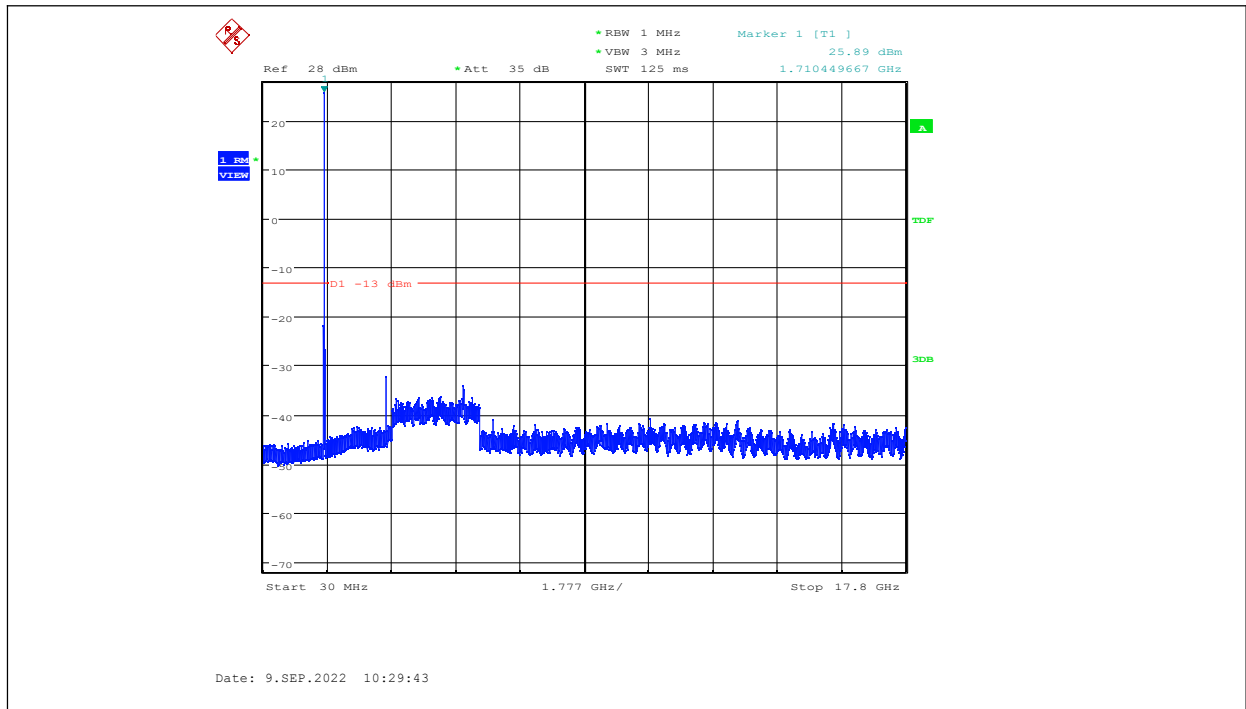


LTE band 66-15MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

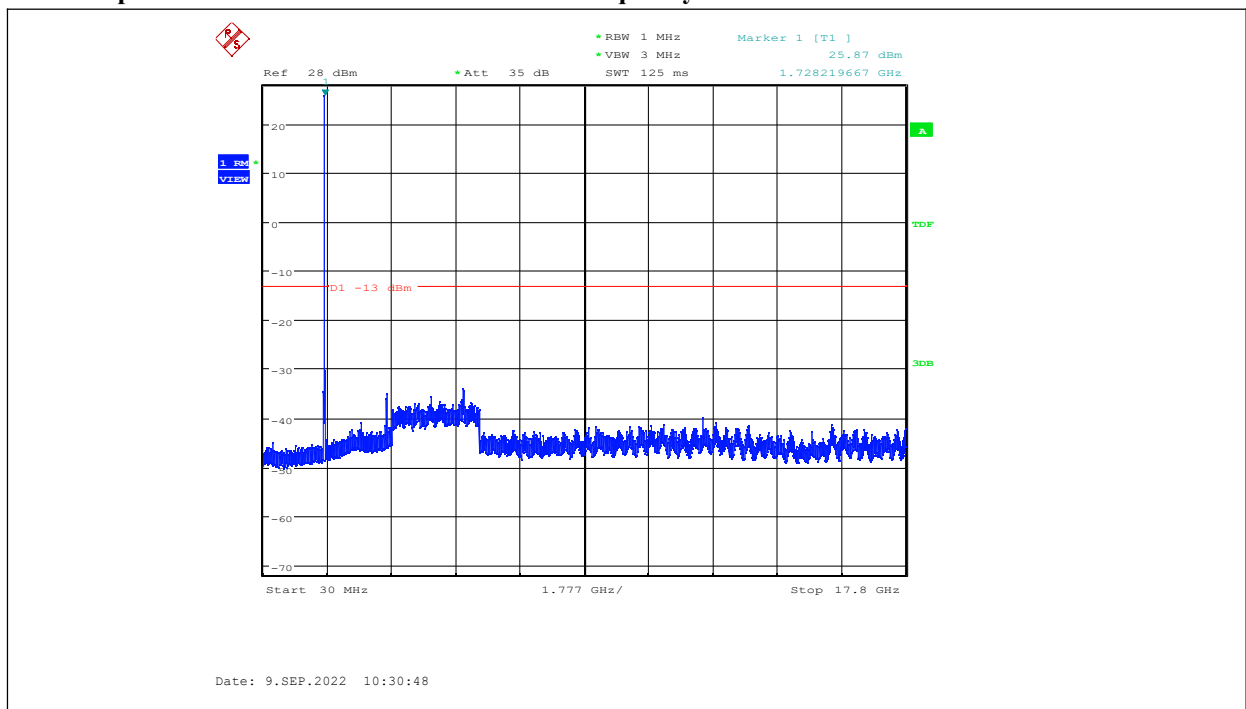
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LTE band 66-20MHz-16QAM-Low

NOTE: peak above the limit line is the carrier frequency.



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6.6. Radiated Spurious Emission

Specifications:	FCC Part 2.1051, 2.1053, 24.238, 22.917, 27.53
DUT Serial Number:	IMEI:862733060027151
Test conditions:	Ambient Temperature:24.1°C-26.2°C Relative Humidity:52.0%-55.0% Air pressure: 97.2-97.4kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. 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.

According to Part 24.238 (a), i.e., Out of Band emissions. 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, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13 \text{ dBm}$.

According to Part 27.53(c):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

According to Part 27.53(h):

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 Part 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 Part 27.53(m): 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

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operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Limits for Radiated spurious emissions(UE)	
Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty (30MHz-150MHz)	5.15 dB (k=2)
Expanded Uncertainty (150MHz-1GHz)	4.09dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	2.92dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	2.93dB (k=2)
Expanded Uncertainty (3GHz-20GHz)	2.69dB (k=2)

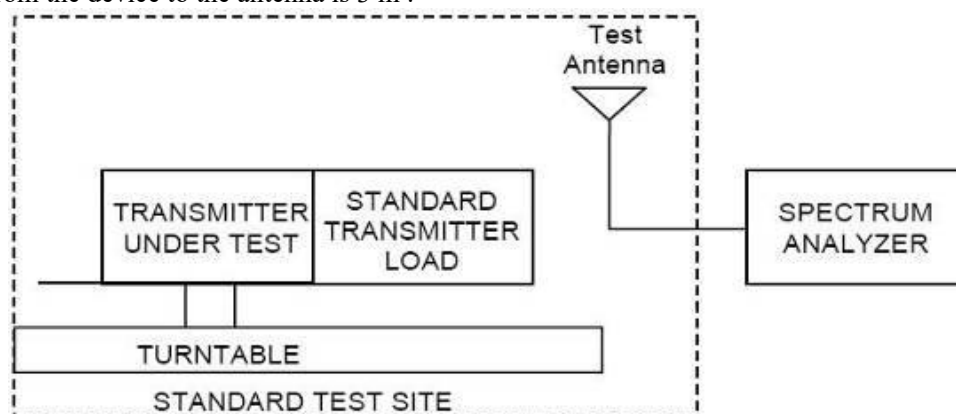
Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

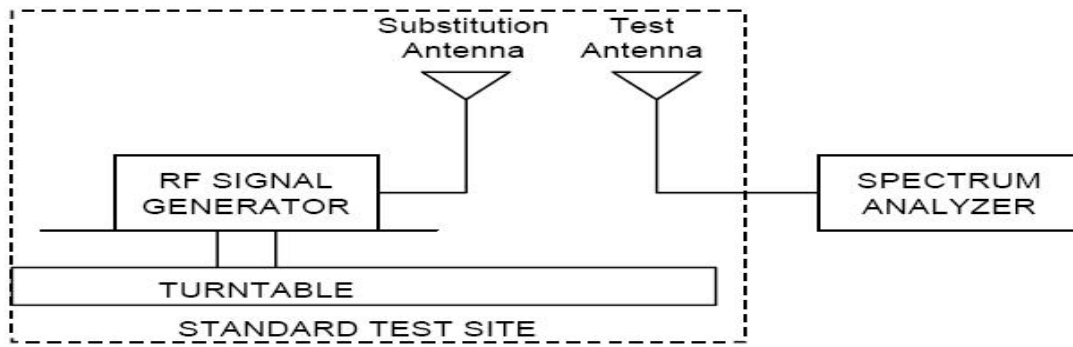
(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.

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(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{Antenna Gain (dB)}$$

where:

P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

Note: All modes of Radiated Spurious Emission were tested, only the worst case was reported.

6.6.1 LTE Radiated Spurious Emission Results

Test frequency: 30MHz-20GHz

All modes were tested, only the worst case of each band was reported.

LTE B2 Radiated Spurious Emission Results

Test Data (1.4 MHz bandwidth CH18607 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3701.4	-60.5	1.5	9.3	-52.7	H
5552.1	-80.4	2.1	10.3	-72.2	V
7402.8	-70.3	2.5	11.7	-61.1	V
9253.5	-59.3	3.1	12.4	-50.0	V
11104.2	-69.7	3.6	13.8	-59.5	V
12954.9	-71.8	4.0	14.0	-61.8	V

LTE B4 Radiated Spurious Emission Results

Test Data (5MHz bandwidth CH19975 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3425.0	-82.5	1.5	9.0	-75.0	H
5137.5	-78.9	2.0	9.8	-71.1	H
6850.0	-76.3	2.5	11.4	-67.4	H
8562.5	-73.0	3.0	12.2	-63.8	H
10275.0	-68.9	3.6	13.2	-59.3	V
11987.5	-71.8	3.7	14.0	-61.5	V

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LTE B5 Radiated Spurious Emission Results**Test Data (1.4MHz bandwidth CH20643 16QAM Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1696.6	-73.0	1.0	8.0	-66.0	H
2544.9	-65.8	1.3	9.1	-58.0	V
3393.2	-82.5	1.5	9.0	-75.0	V
4241.5	-82.1	1.7	9.3	-74.5	H
5089.8	-79.6	1.9	9.8	-71.7	H
5938.1	-79.1	2.2	10.9	-70.4	H

LTE B41 Radiated Spurious Emission Results**Test Data (15MHz bandwidth CH41515 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5365.0	-77.6	2.1	10.3	-69.4	H
8047.5	-73.8	2.7	11.9	-64.6	H
10730.0	-68.6	3.2	13.2	-58.6	V
13412.5	-70.3	4.0	14.0	-60.3	V
16095.0	-67.0	4.6	12.4	-59.2	H
17777.5	-62.5	5.0	11.0	-56.5	H

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LTE B66 Radiated Spurious Emission Results**Test Data (5MHz bandwidth CH131997 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3425.0	-82.1	1.5	9.0	-74.6	H
5137.5	-78.7	2.0	9.8	-70.9	H
6850.0	-76.2	2.5	11.4	-67.3	H
8562.5	-72.8	3.0	12.2	-63.6	V
10275.0	-68.8	3.6	13.2	-59.2	V
11987.5	-71.9	3.7	14.0	-61.6	H

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6.7. Band Edge

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
DUT Serial Number:	862733060028209
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. 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.

According to Part 24.238 (a), i.e., Out of Band emissions. 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, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$.

According to Part 27.53(h):

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 Part 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 Part 27.53(m):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 2490.5MHz 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.

Measurement Uncertainty:

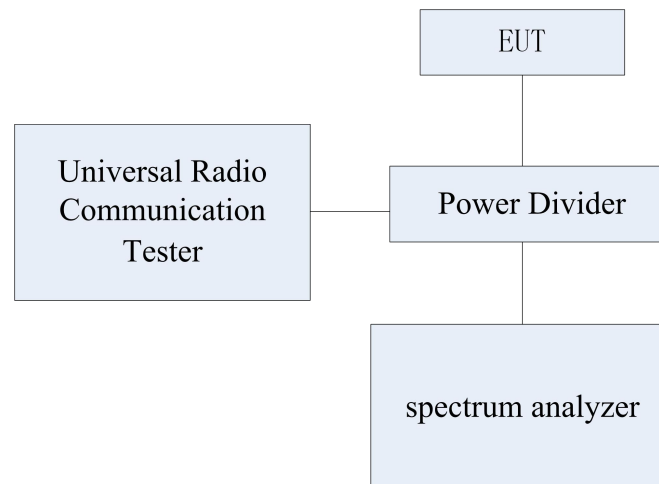
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Item	Uncertainty	
Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}$	0.71 dB (k=2)
	$4\text{GHz} \leq f < 12.75\text{GHz}$	0.74 dB (k=2)
	$12.75\text{GHz} \leq f < 26\text{GHz}$	2.70 dB (k=2)

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method:

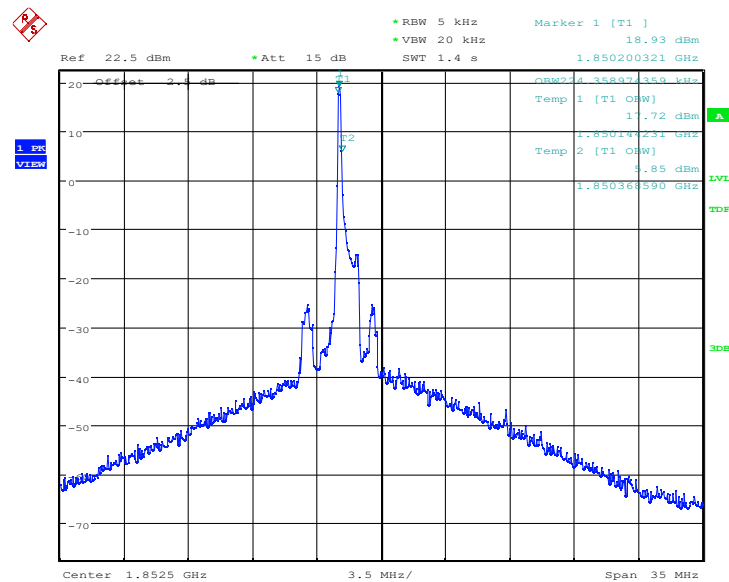
- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission Bandwidth.

Note: Band Edge test data include QPSK and 16QAM. The following test data only reflect the data of the worst mode QPSK

6.7.1 Band Edge Results

LTE band 2-1.4MHz

OBW: 1RB-LOW_offset

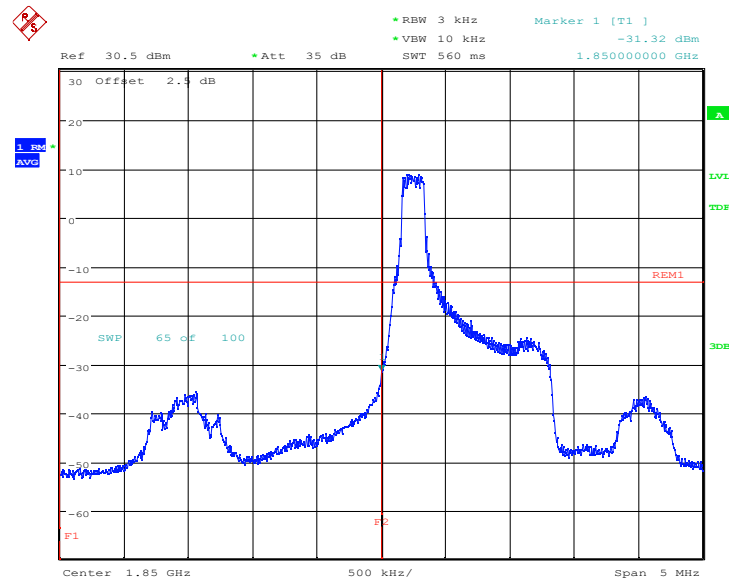


Date: 6.JUL.2022 13:52:17

LOW BAND EDGE BLOCK-1RB-LOW_offset

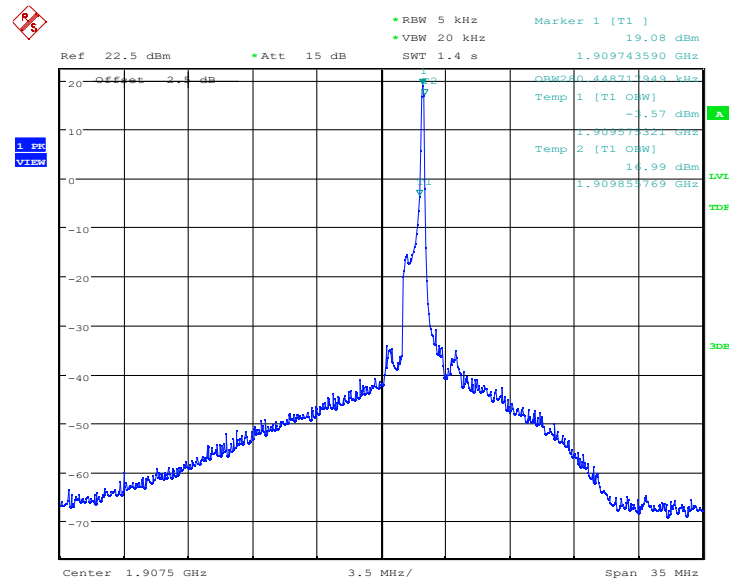
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Date: 6.JUL.2022 13:53:55

OBW: 1RB-HIGH_offset

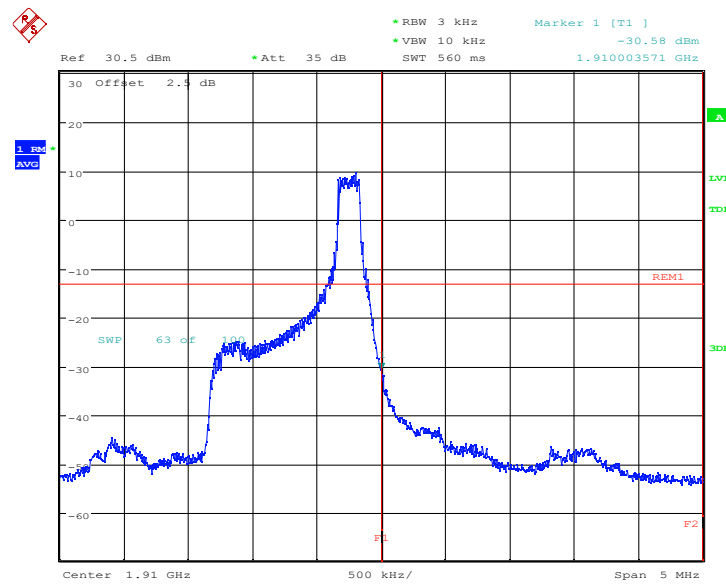


Date: 6.JUL.2022 13:54:21

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

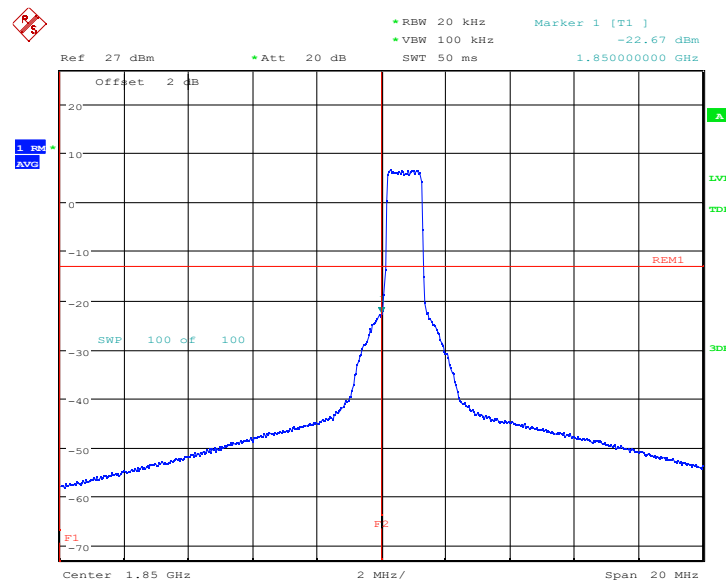
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Date: 6.JUL.2022 13:55:59

LOW BAND EDGE BLOCK-1.4M-100%RB

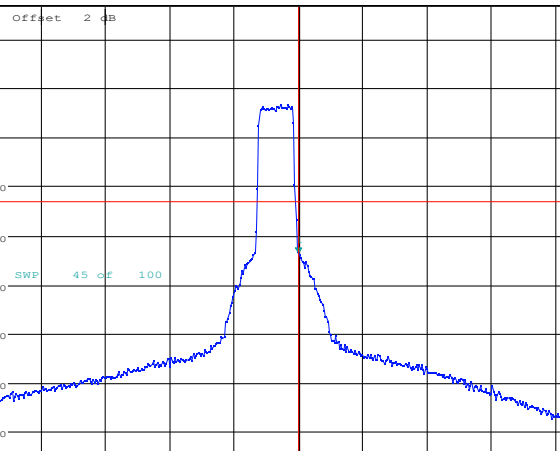


Date: 8.SEP.2022 22:18:38

HIGH BAND EDGE BLOCK-1.4M-100%RB

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Ref 27 dBm Att 20 dB RBW 20 kHz VBW 100 kHz SWT 50 ms Marker 1 [T1] -23.72 dBm 1.91000000 GHz

Offset 2 dB

1 3dB AVG

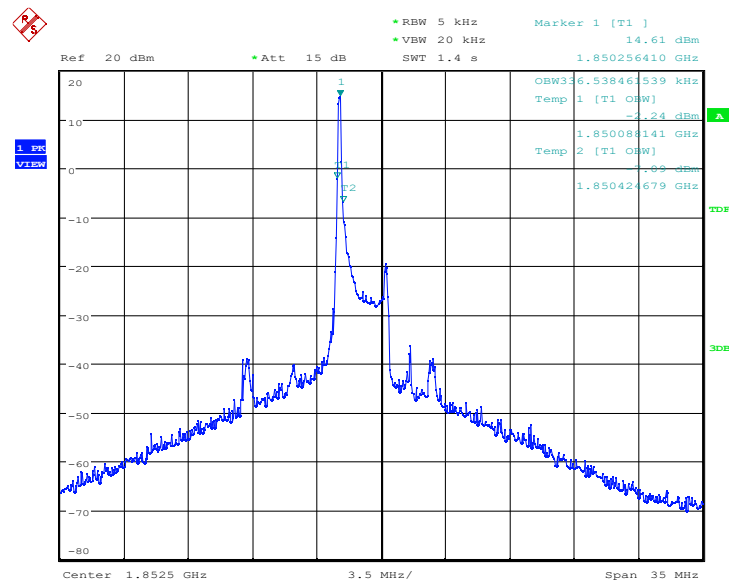
SWP 45 of 100

REMI

F1 F2

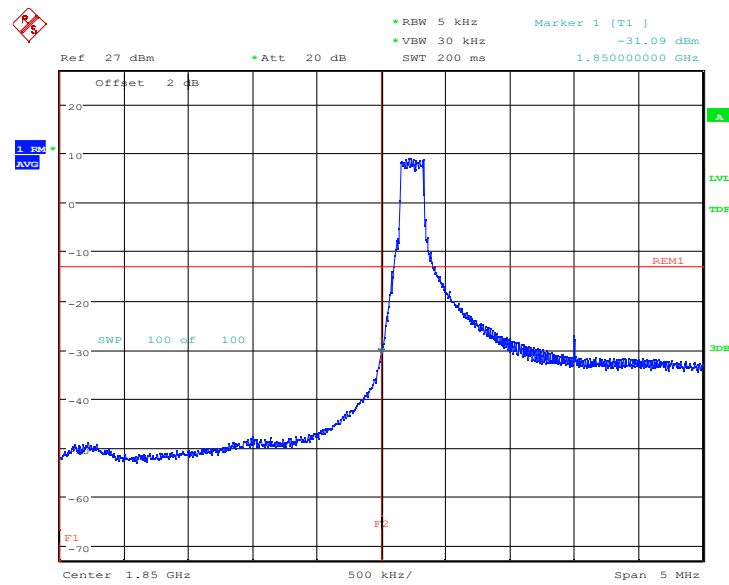
Center 1.91 GHz 2 MHz/ Span 20 MHz

OBW: 1RB-LOW_offset



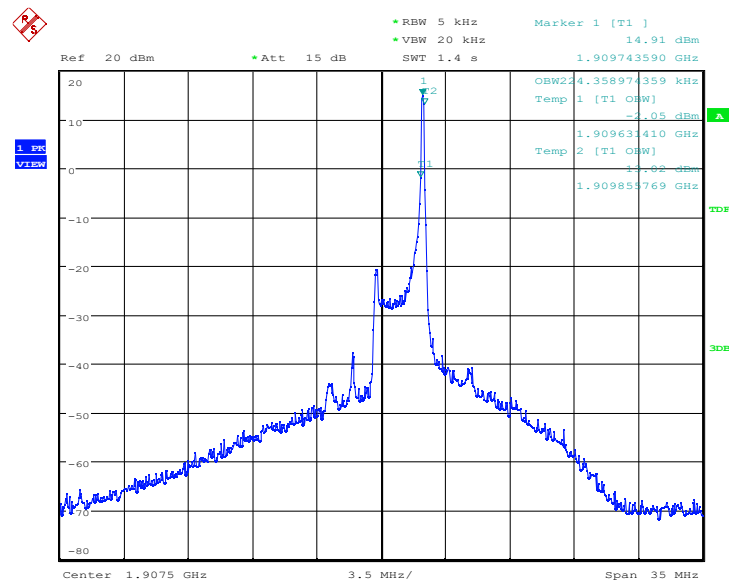
LOW BAND EDGE BLOCK-1RB-LOW_offset

FAX:0086-23-88608777



Date: 8.SEP.2022 22:21:30

OBW: 1RB-HIGH_offset

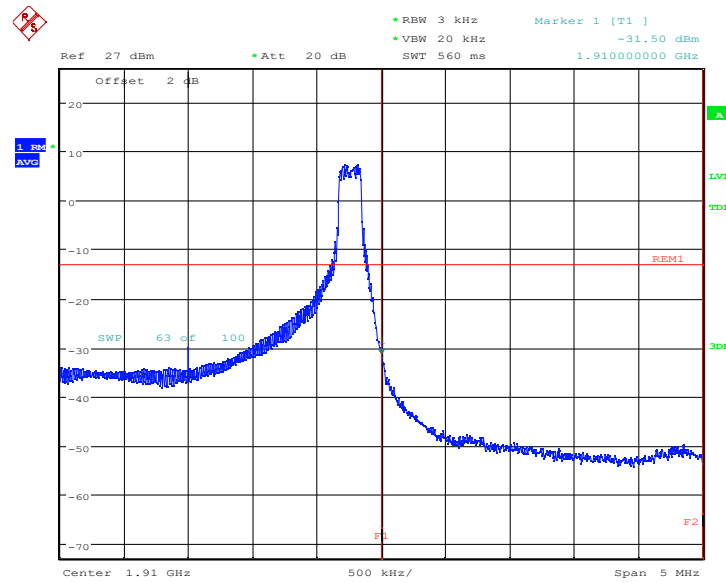


Date: 8.SEP.2022 22:22:41

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

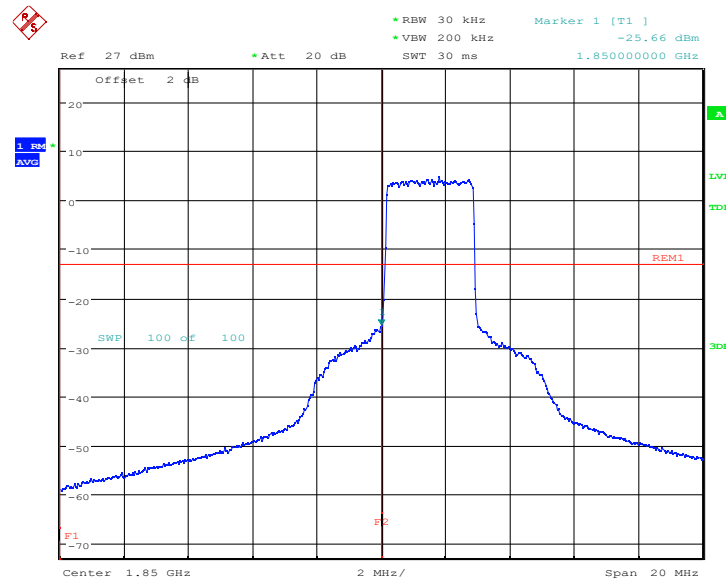
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Date: 8.SEP.2022 22:24:18

LOW BAND EDGE BLOCK-3M-100%RB

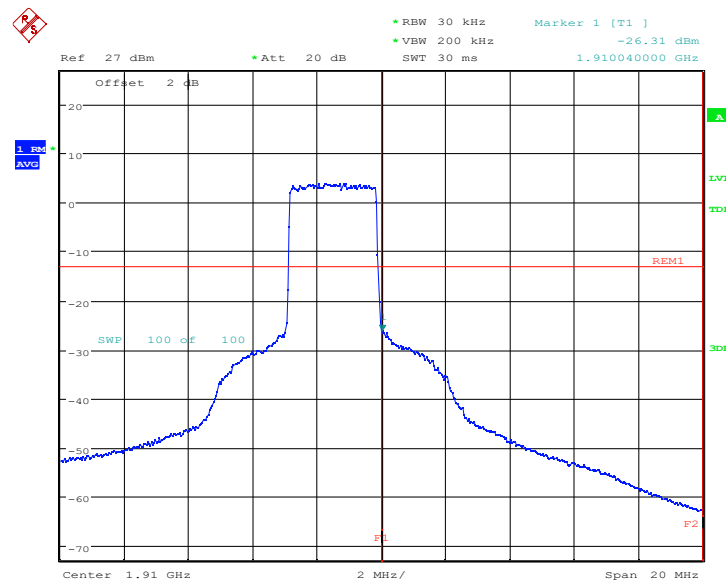


Date: 8.SEP.2022 22:22:17

HIGH BAND EDGE BLOCK-3M-100%RB

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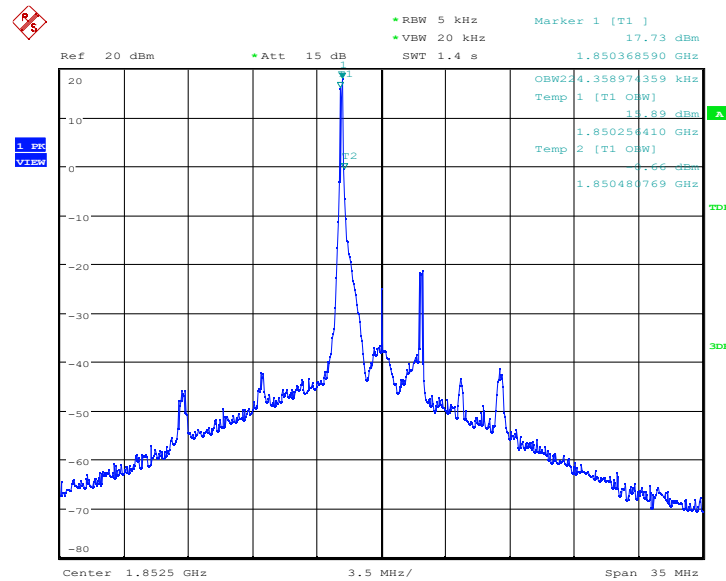
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 22:25:04

LTE band 2-5MHz

OBW: 1RB-LOW_offset



Date: 8.SEP.2022 22:26:10

LOW BAND EDGE BLOCK-1RB-LOW_offset

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



Ref 27 dBm • Att 20 dB • RBW 3 kHz • VBW 20 kHz Marker 1 [T1] -40.01 dBm
SWT 560 ms 1.85000000 GHz

Offset 2 dB

1.85 GHz
AVG

SWP 65 of 100

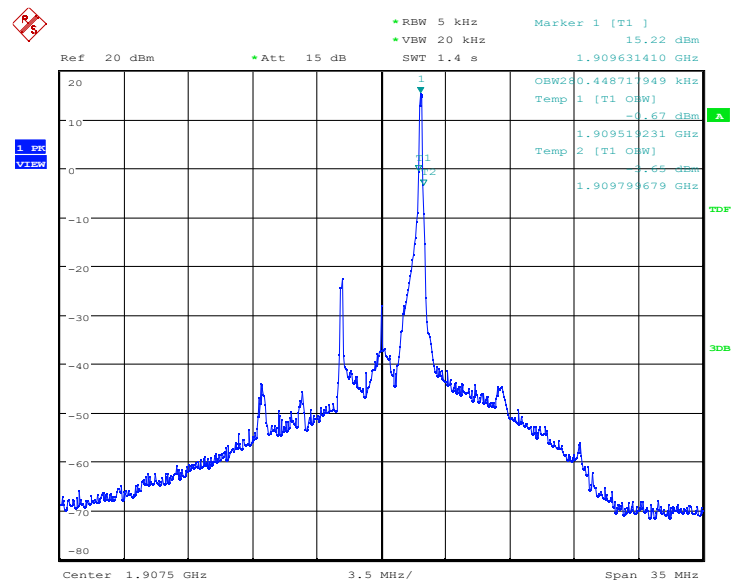
REM1

F1

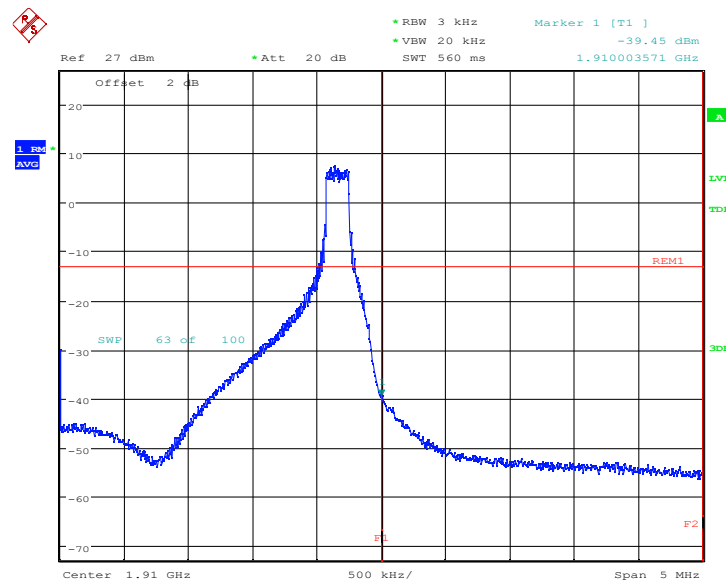
F2

Center 1.85 GHz 500 kHz/ Span 5 MHz

OBW: 1RB-HIGH_offset

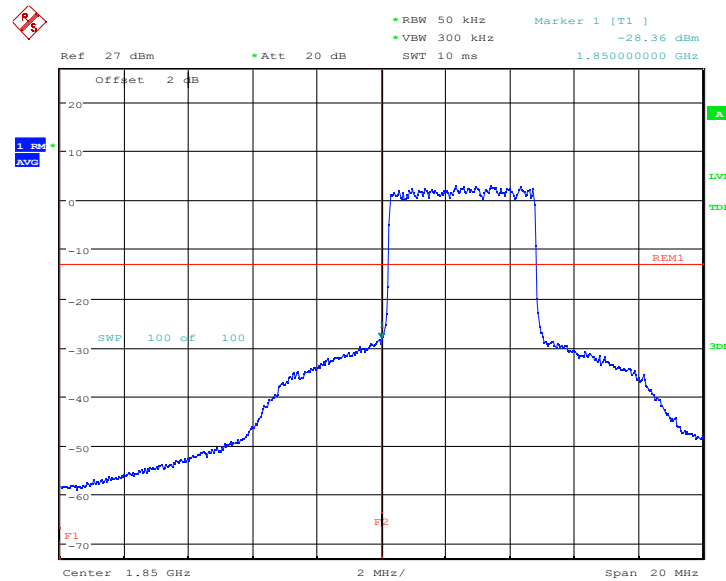


HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 8.SEP.2022 22:30:29

LOW BAND EDGE BLOCK-5M-100%RB

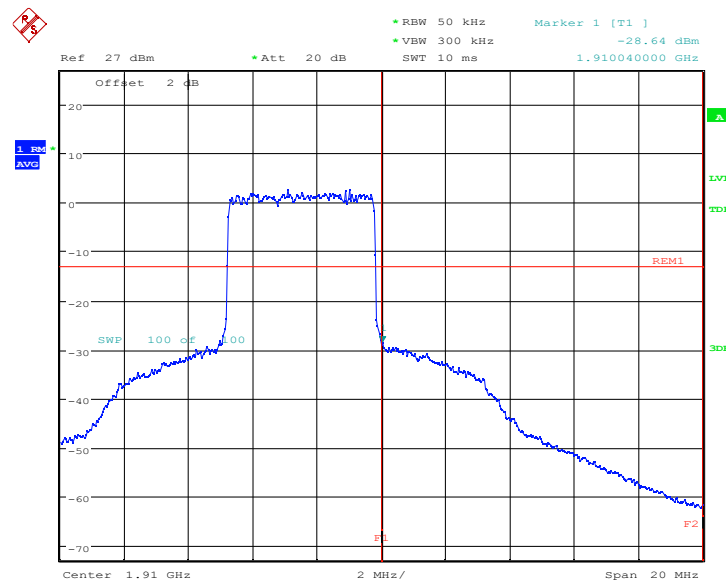


Date: 8.SEP.2022 22:28:29

HIGH BAND EDGE BLOCK-5M-100%RB

Chongqing Academy of Information and Communication Technology

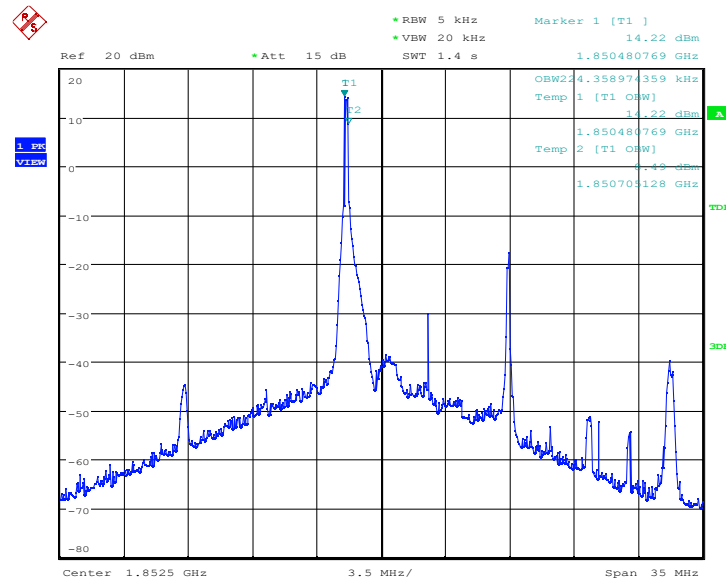
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 22:31:13

LTE band 2-10MHz

OBW: 1RB-LOW_offset

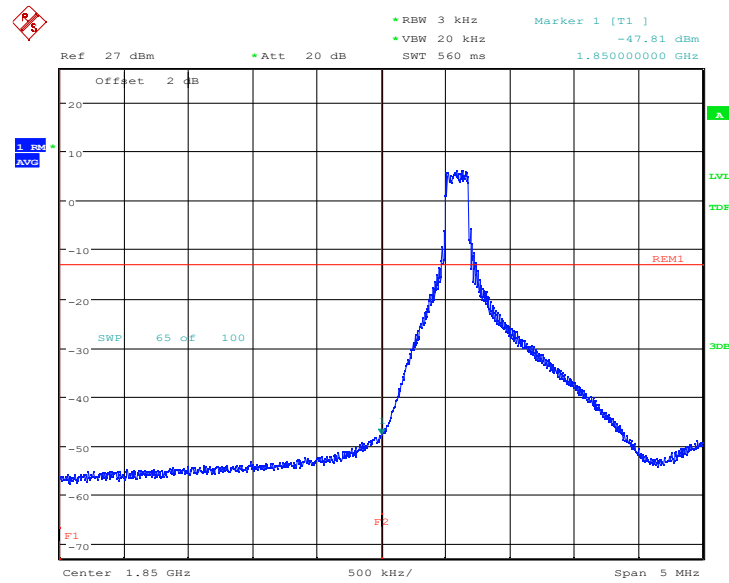


Date: 8.SEP.2022 22:32:20

LOW BAND EDGE BLOCK-1RB-LOW_offset

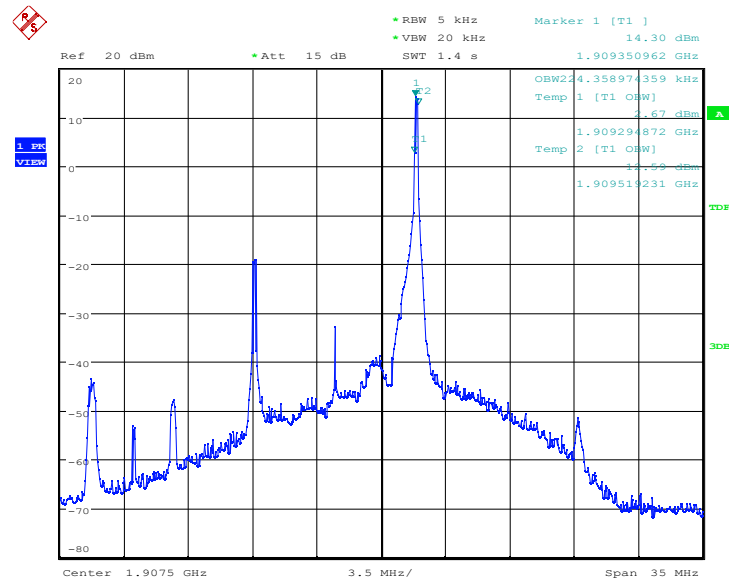
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 22:33:57

OBW: 1RB-HIGH_offset

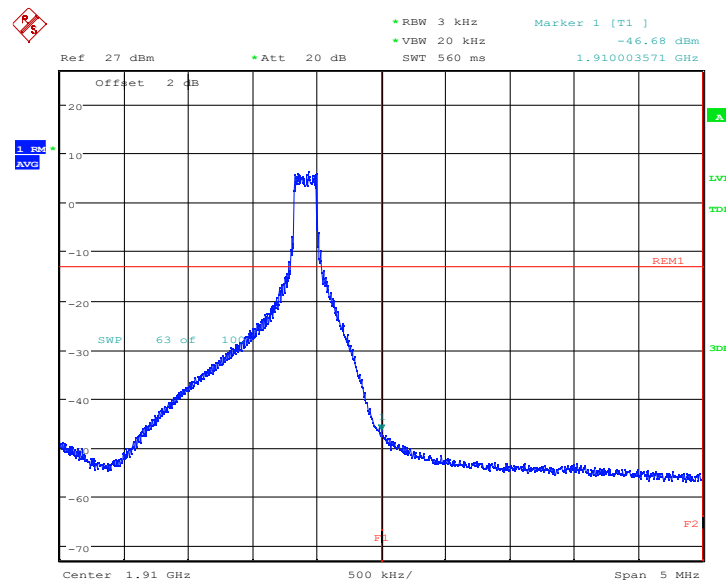


Date: 8.SEP.2022 22:35:09

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

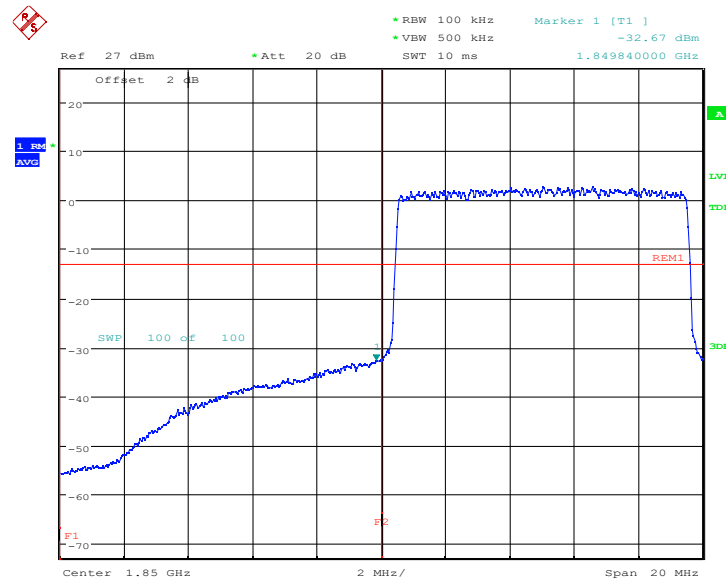
Chongqing Academy of Information and Communication Technology

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Date: 8.SEP.2022 22:36:49

LOW BAND EDGE BLOCK-10M-100%RB



Date: 8.SEP.2022 22:34:41

HIGH BAND EDGE BLOCK-10M-100%RB

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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Ref 27 dBm Att 20 dB RBW 100 kHz VBW 500 kHz SWT 10 ms Marker 1 [T1] -33.10 dBm 1.910040000 GHz

Offset 2 dB

1 93d AVG

SWP 100 of 100

REM1

FL

F2

Center 1.91 GHz 2 MHz/ Span 20 MHz

Ref 20 dBm Att 15 dB RBW 5 kHz VBW 20 kHz SWT 1.4 s Marker 1 [T1] 15.70 dBm

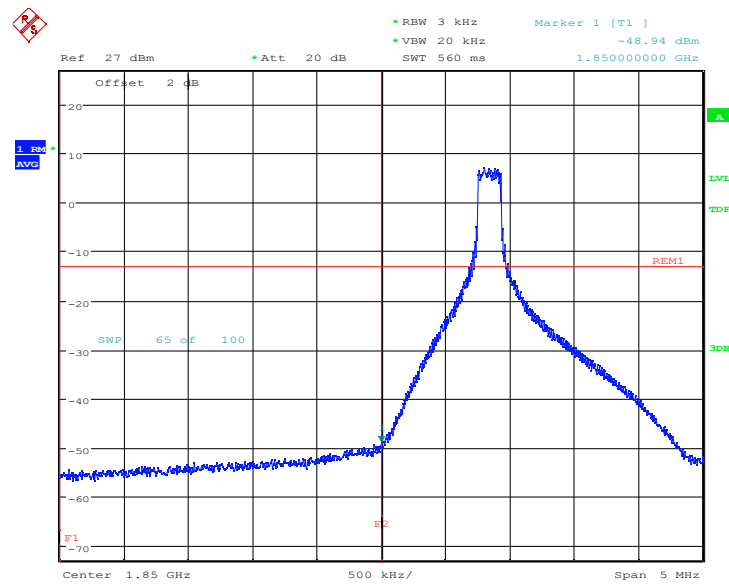
OBW20.44871949 kHz Temp 1 [T1 OBW] 1.34 dBm

1.850705128 GHz Temp 2 [T1 OBW] 1.14 dBm

1.850929487 GHz

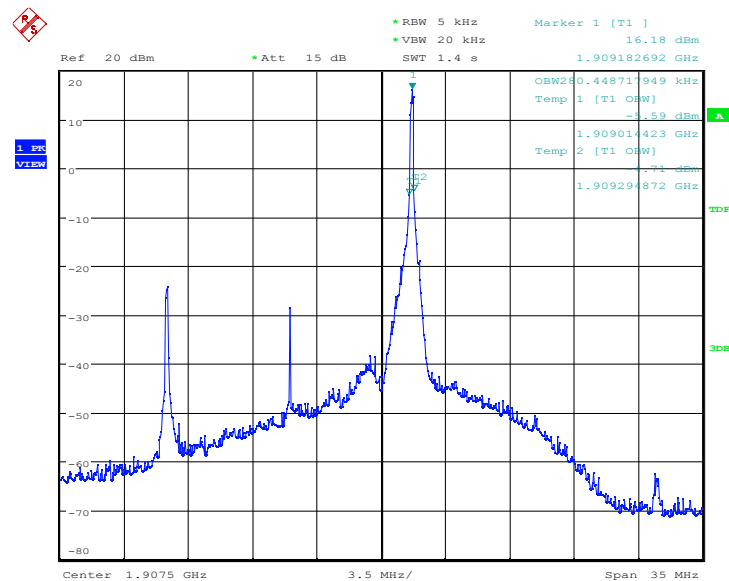
Center 1.8525 GHz 3.5 MHz/div Span 35 MHz

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Date: 8.SEP.2022 22:40:20

OBW: 1RB-HIGH_offset



Date: 8.SEP.2022 22:41:27

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Tel: 0086-23-88069965 FAX:0086-23-88608777



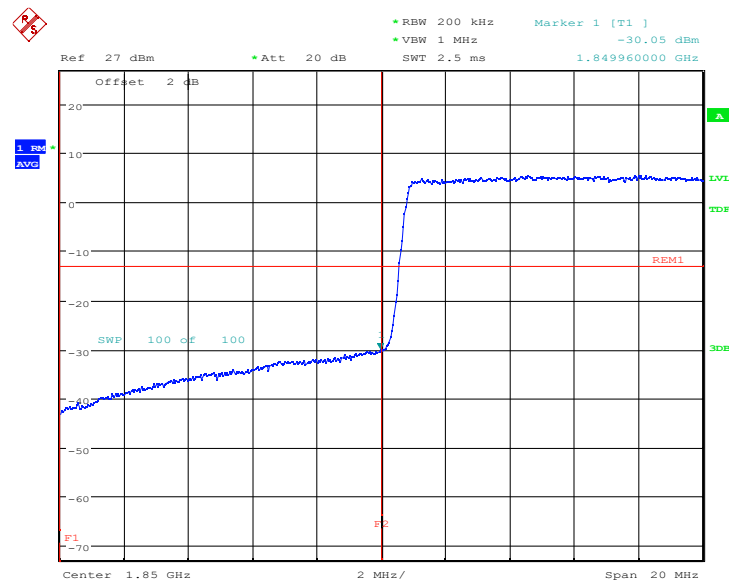
Ref 27 dBm • Att 20 dB • RBW 3 kHz Marker 1 [T1] -48.75 dBm
 SWT 560 ms 1.91000000 GHz

Offset 2 dB

SWP 63.9 1.00

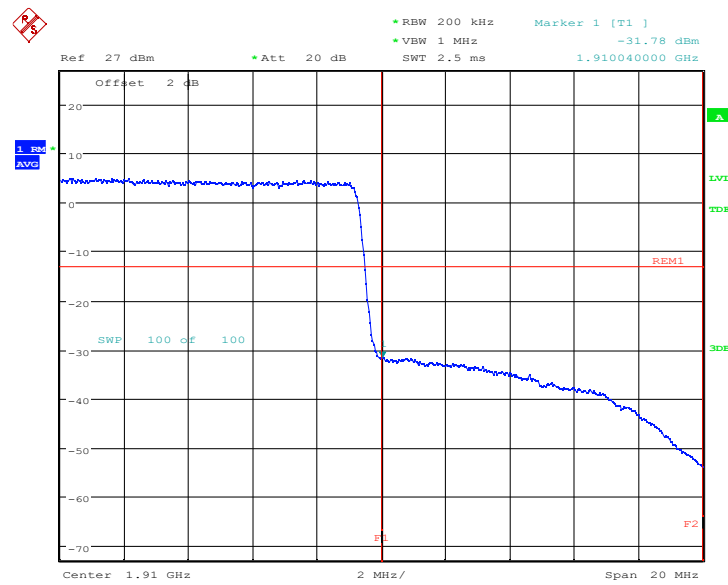
Center 1.91 GHz 500 kHz/ Span 5 MHz

LOW BAND EDGE BLOCK-15M-100%RB



HIGH BAND EDGE BLOCK-15M-100%RB

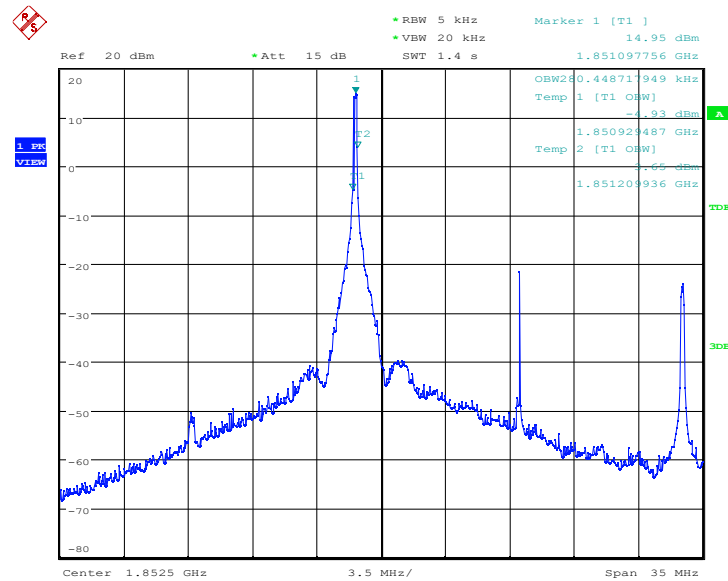
FAX:0086-23-88608777



Date: 8.SEP.2022 22:43:47

LTE band 2-20MHz

OBW: 1RB-LOW_offset

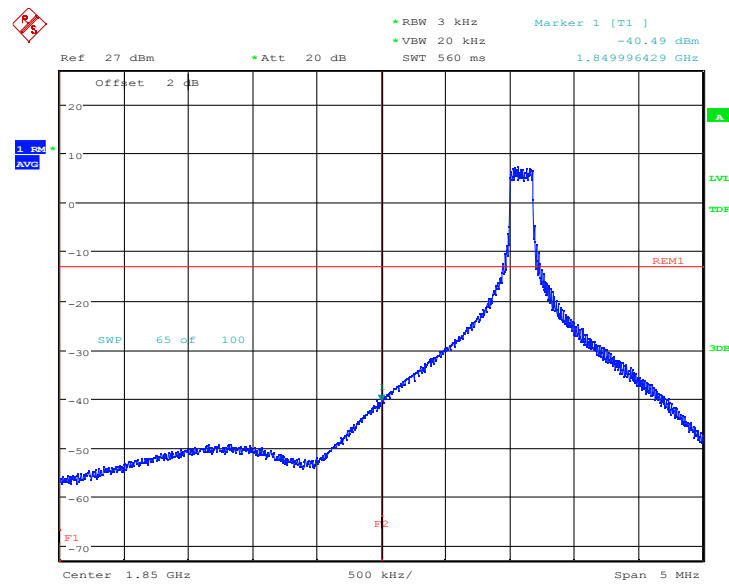


Date: 8.SEP.2022 22:44:54

LOW BAND EDGE BLOCK-1RB-LOW_offset

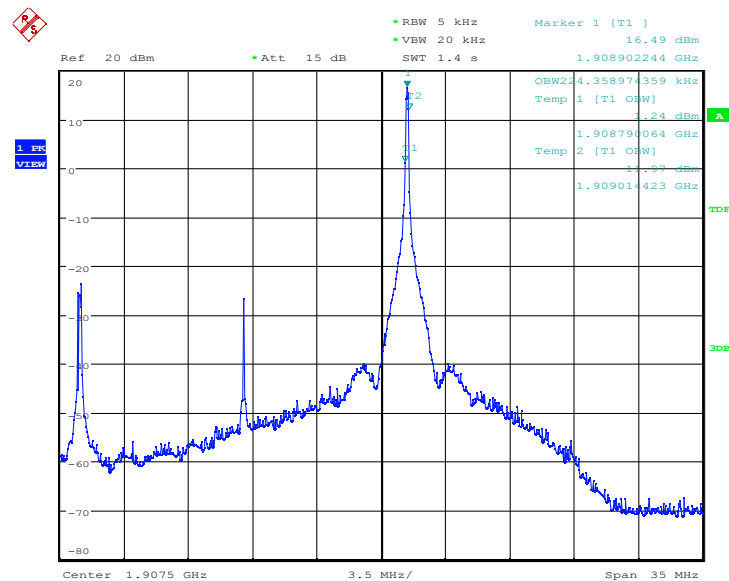
Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 8.SEP.2022 22:46:29

OBW: 1RB-HIGH_offset

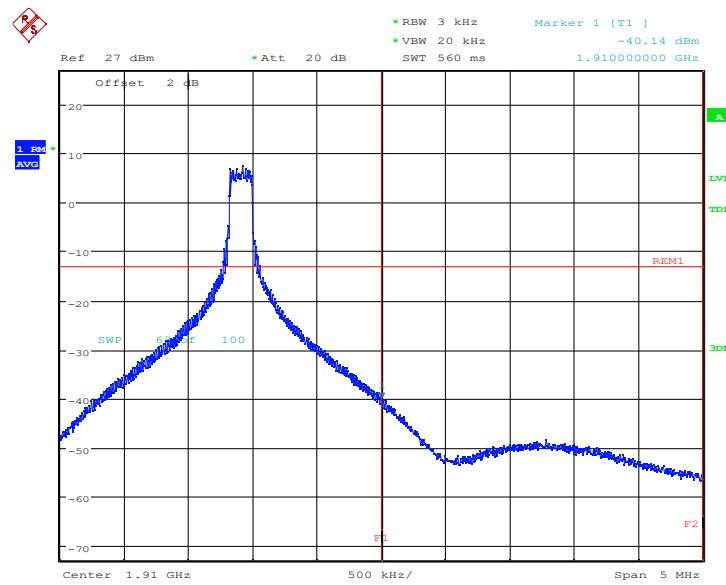


Date: 8.SEP.2022 22:46:57

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

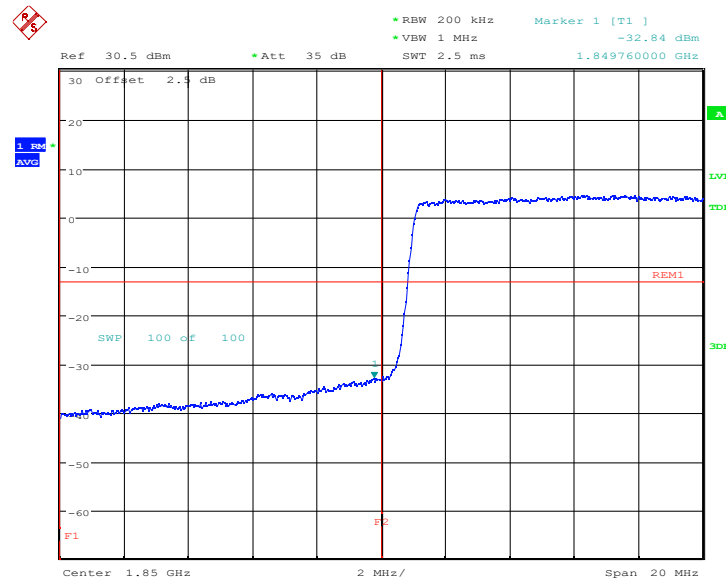
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 22:48:34

LOW BAND EDGE BLOCK-20M-100%RB

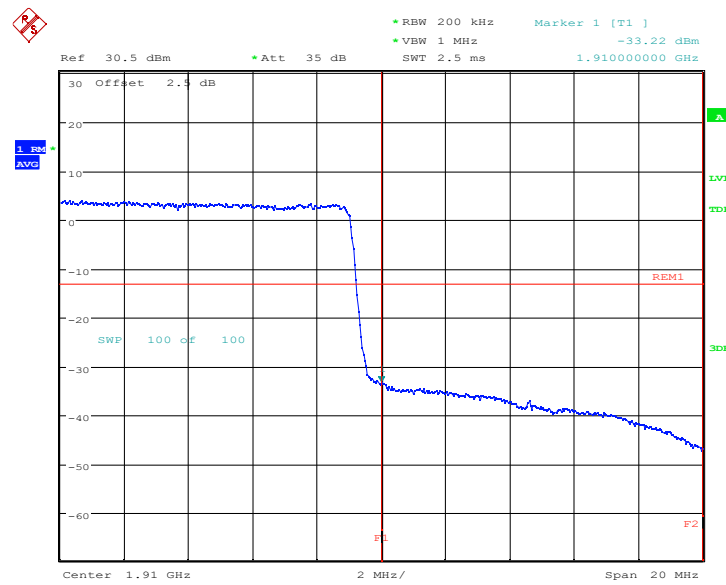


Date: 6.JUL.2022 13:12:13

HIGH BAND EDGE BLOCK-20M-100%RB

Chongqing Academy of Information and Communication Technology

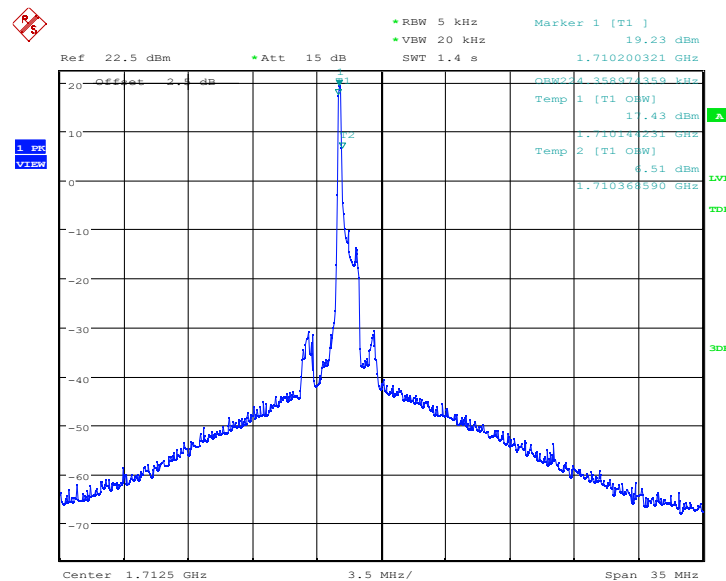
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 6.JUL.2022 13:13:06

LTE band 4-1.4MHz

OBW: 1RB-LOW_offset

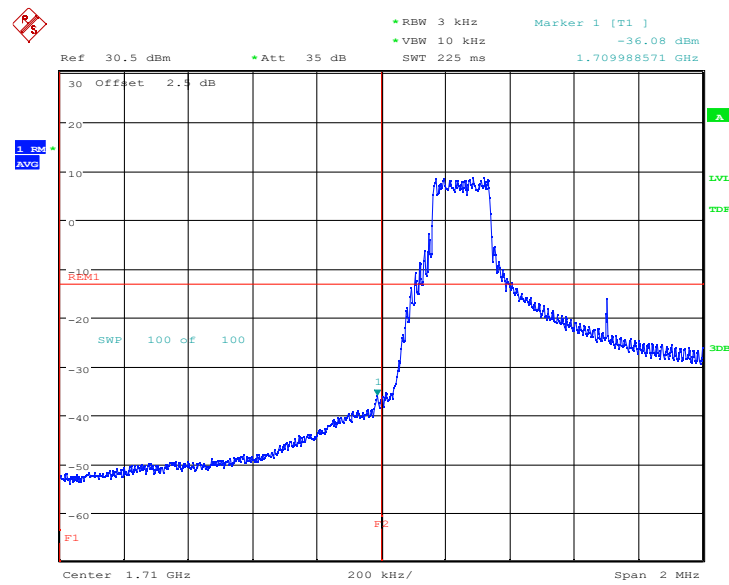


Date: 6.JUL.2022 13:56:27

LOW BAND EDGE BLOCK-1RB-LOW_offset

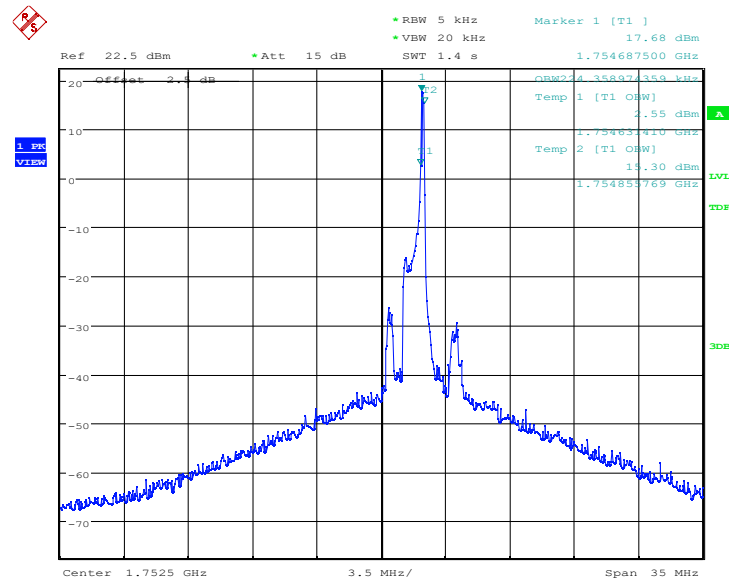
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 6.JUL.2022 13:57:31

OBW: 1RB-HIGH_offset

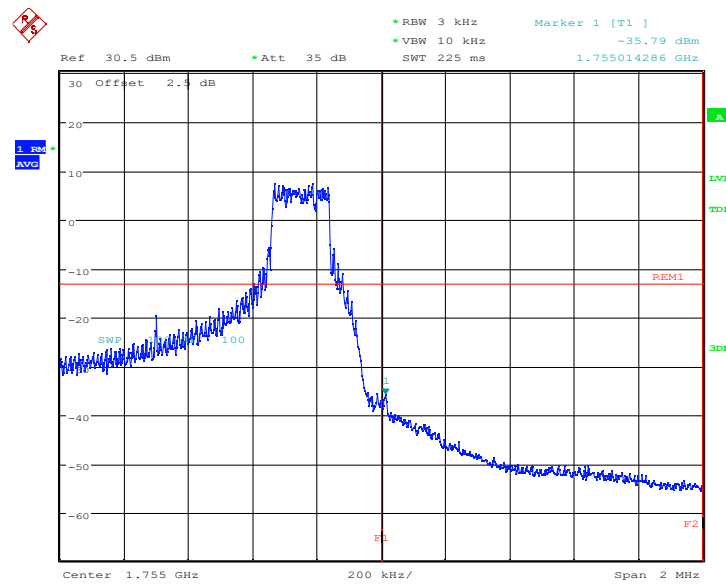


Date: 6.JUL.2022 13:57:56

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

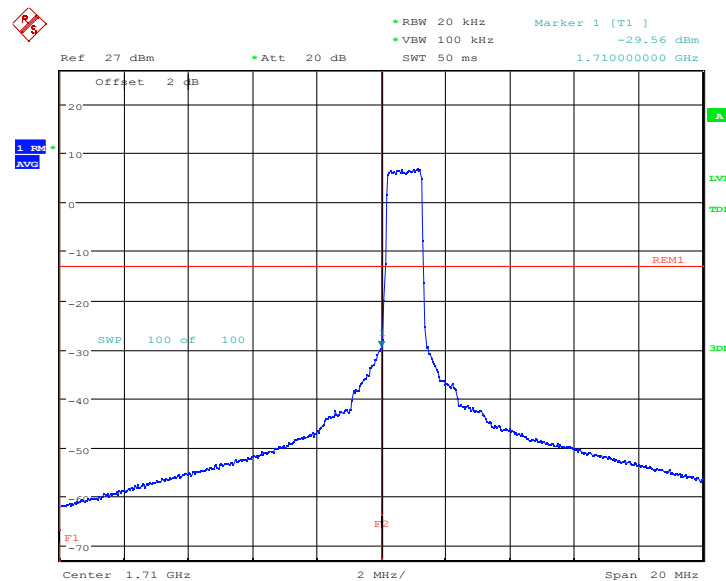
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 6.JUL.2022 13:58:58

LOW BAND EDGE BLOCK-1.4M-100%RB

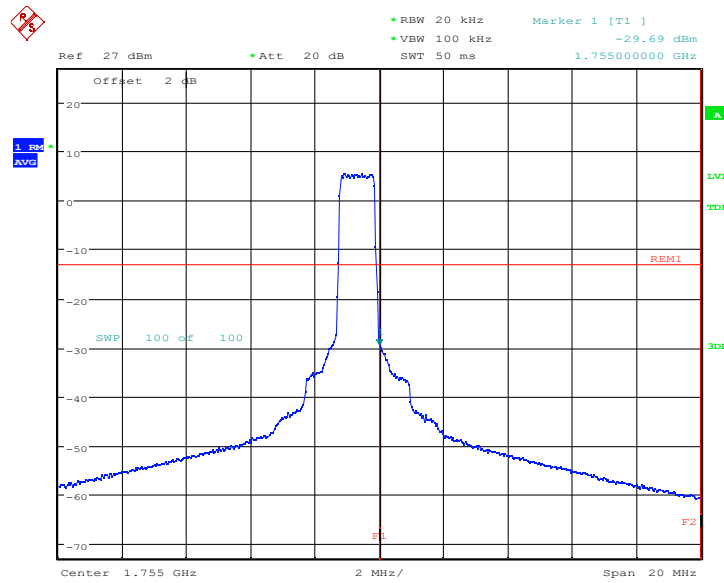


Date: 8.SEP.2022 22:50:10

HIGH BAND EDGE BLOCK-1.4M-100%RB

Chongqing Academy of Information and Communication Technology

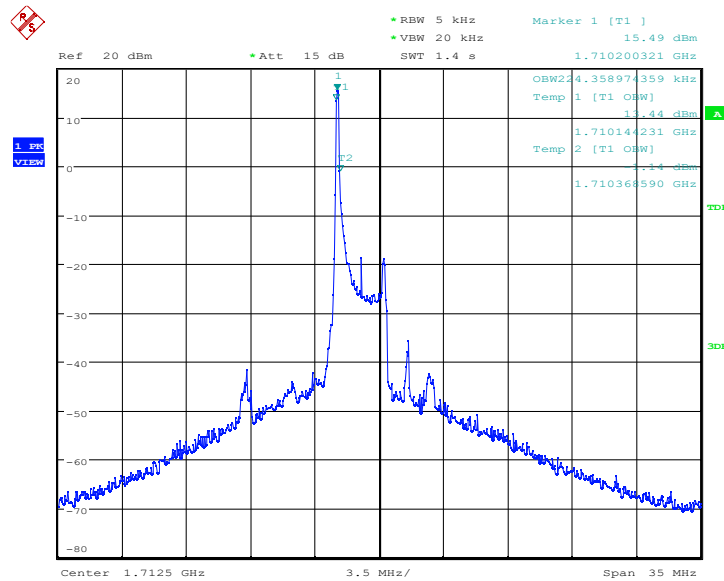
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 8.SEP.2022 22:51:01

LTE band 4-3MHz

OBW: 1RB-LOW_offset

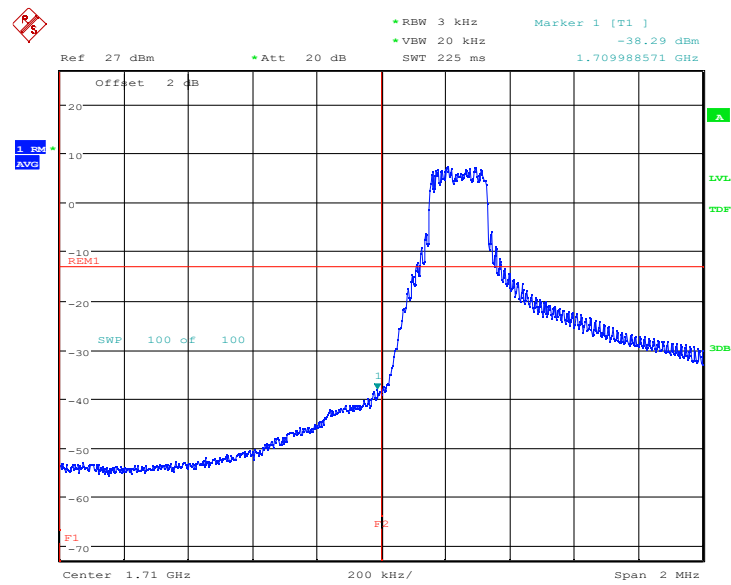


Date: 8.SEP.2022 22:51:33

LOW BAND EDGE BLOCK-1RB-LOW_offset

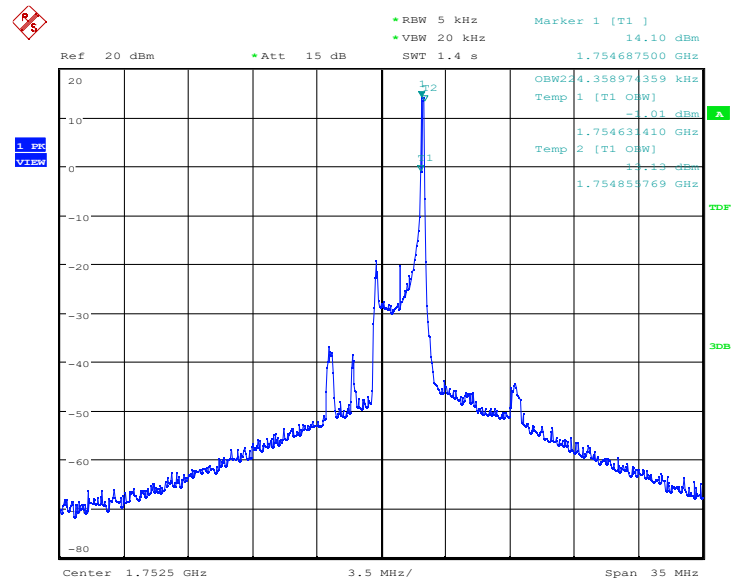
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 22:52:36

OBW: 1RB-HIGH_offset

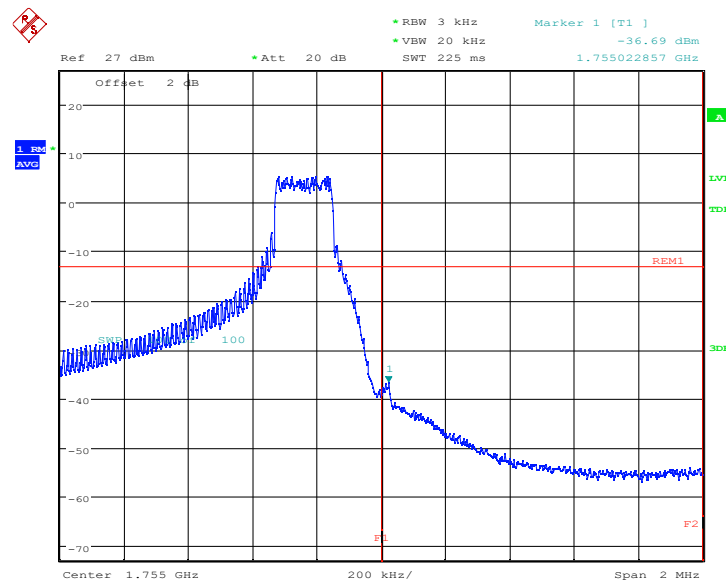


Date: 8.SEP.2022 22:53:48

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

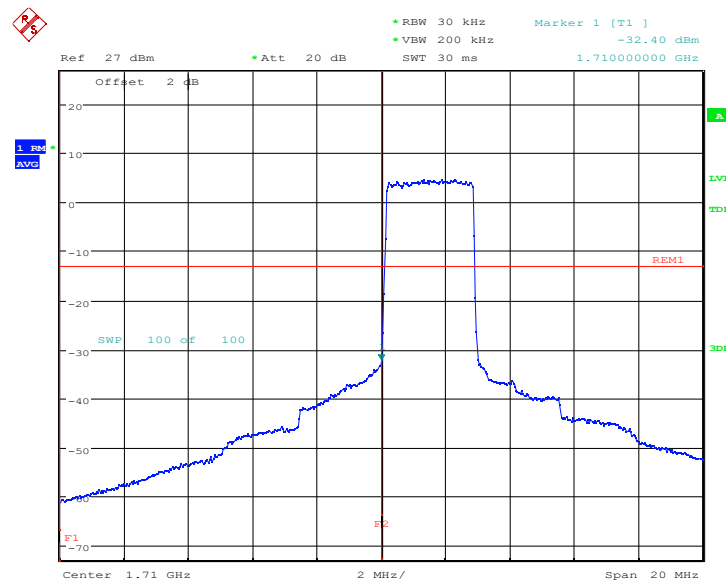
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 22:54:53

LOW BAND EDGE BLOCK-3M-100%RB

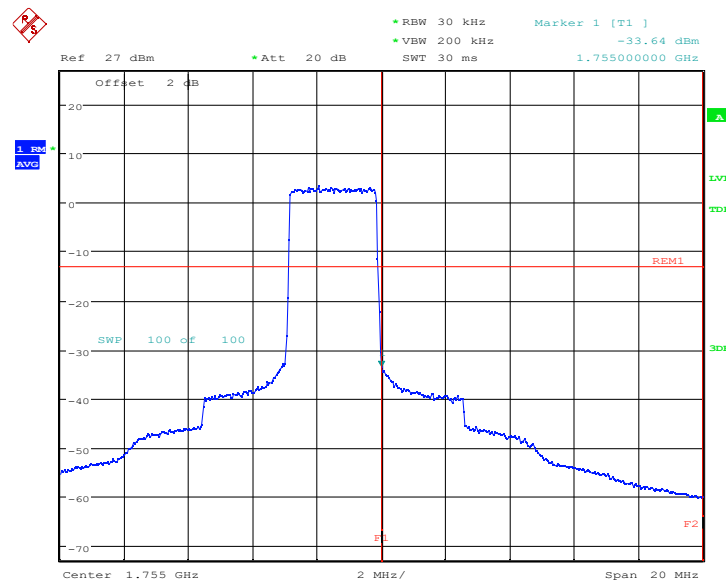


Date: 8.SEP.2022 22:53:22

HIGH BAND EDGE BLOCK-3M-100%RB

Chongqing Academy of Information and Communication Technology

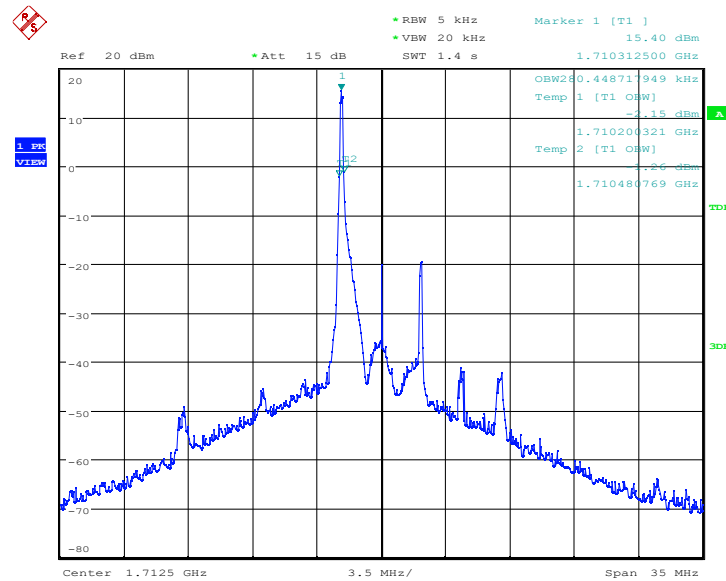
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 8.SEP.2022 22:55:37

LTE band 4-5MHz

OBW: 1RB-LOW_offset

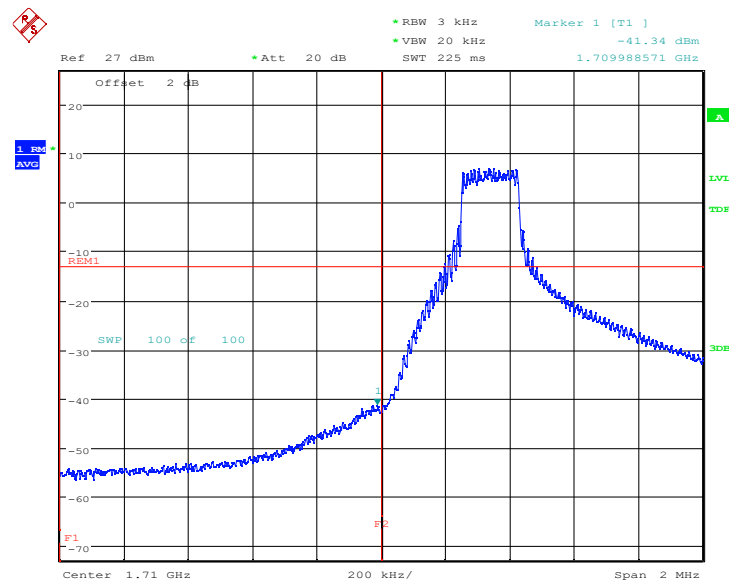


Date: 8.SEP.2022 22:56:18

LOW BAND EDGE BLOCK-1RB-LOW_offset

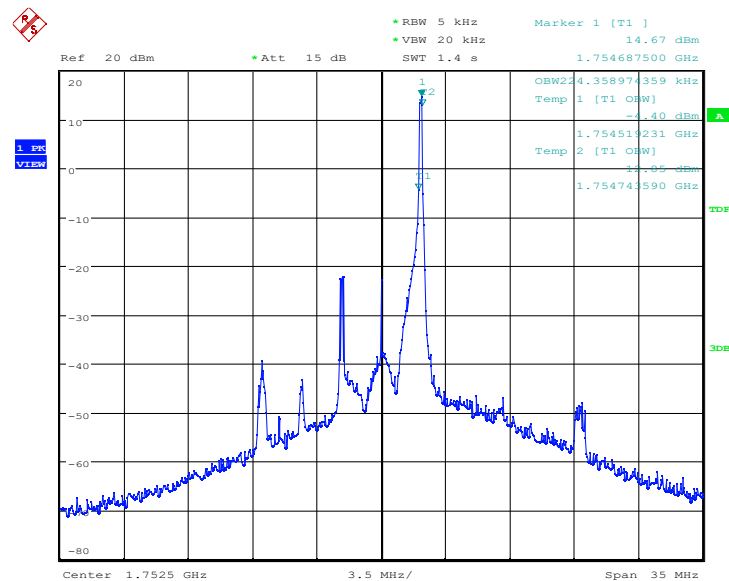
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 22:57:21

OBW: 1RB-HIGH_offset

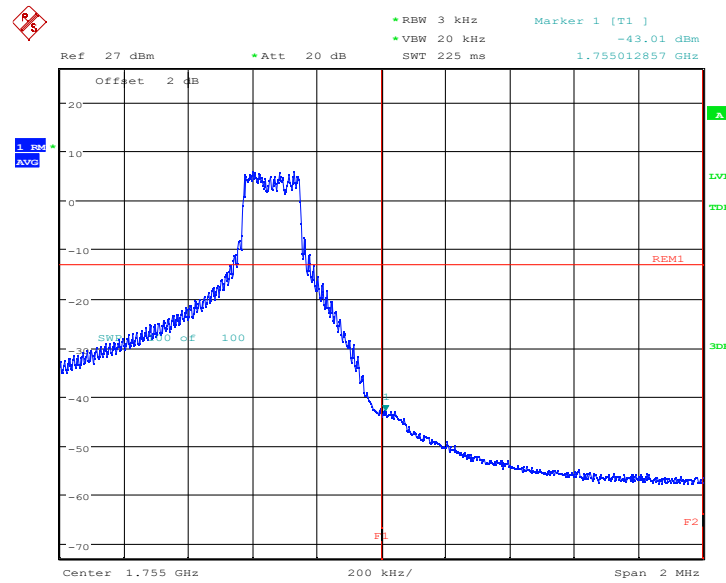


Date: 8.SEP.2022 22:58:30

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

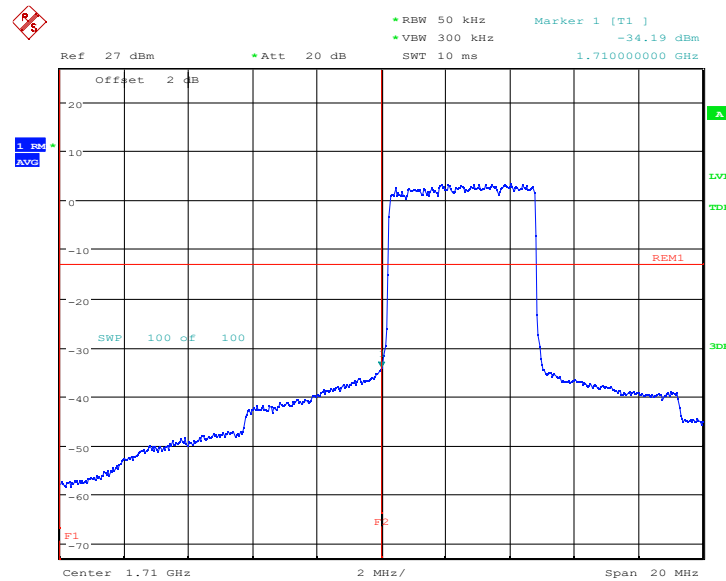
Chongqing Academy of Information and Communication Technology

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Date: 8.SEP.2022 22:59:31

LOW BAND EDGE BLOCK-5M-100%RB

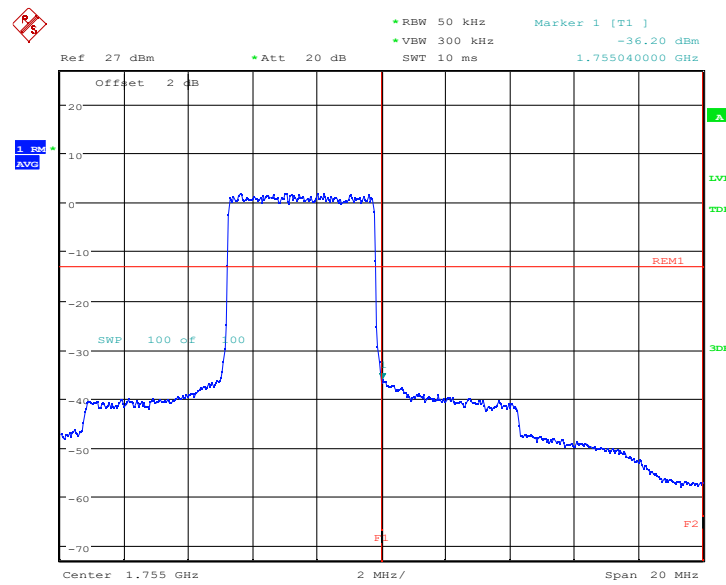


Date: 8.SEP.2022 22:58:06

HIGH BAND EDGE BLOCK-5M-100%RB

Chongqing Academy of Information and Communication Technology

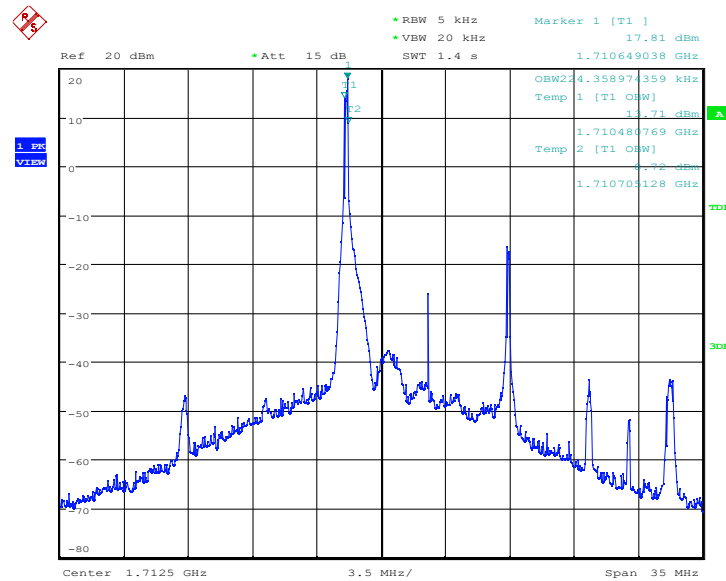
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 23:00:14

LTE band 4-10MHz

OBW: 1RB-LOW_offset

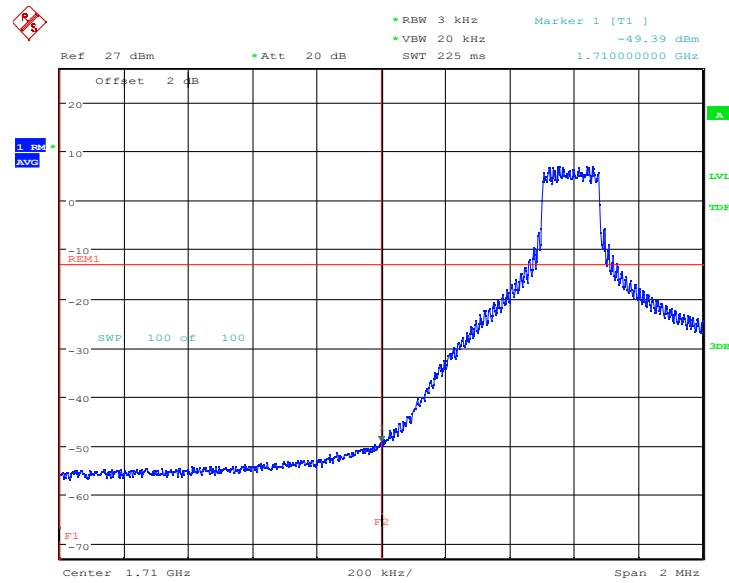


Date: 8.SEP.2022 23:00:54

LOW BAND EDGE BLOCK-1RB-LOW_offset

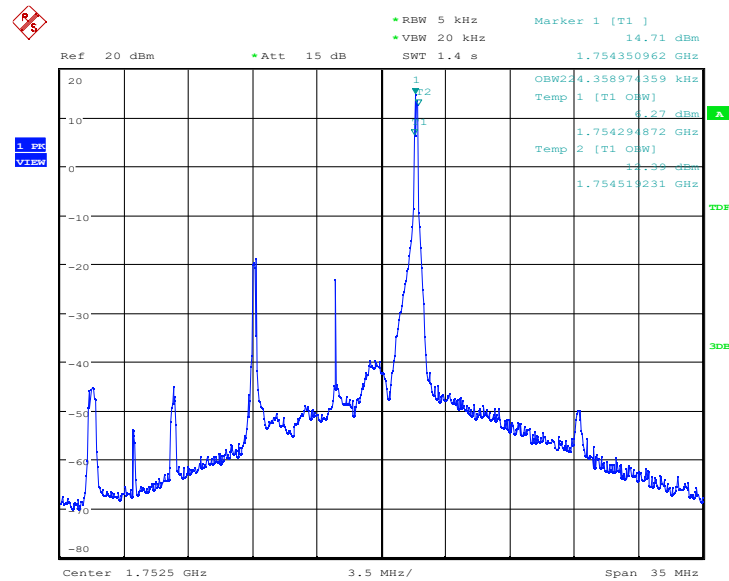
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 8.SEP.2022 23:01:57

OBW: 1RB-HIGH_offset

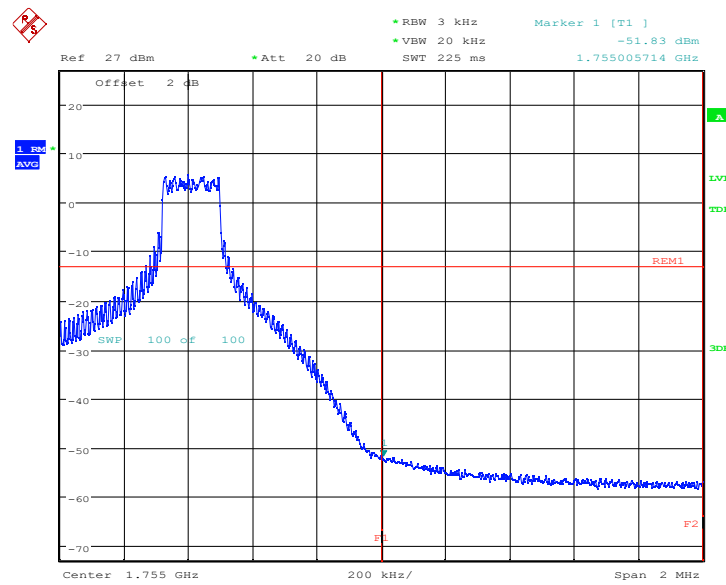


Date: 8.SEP.2022 23:03:13

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

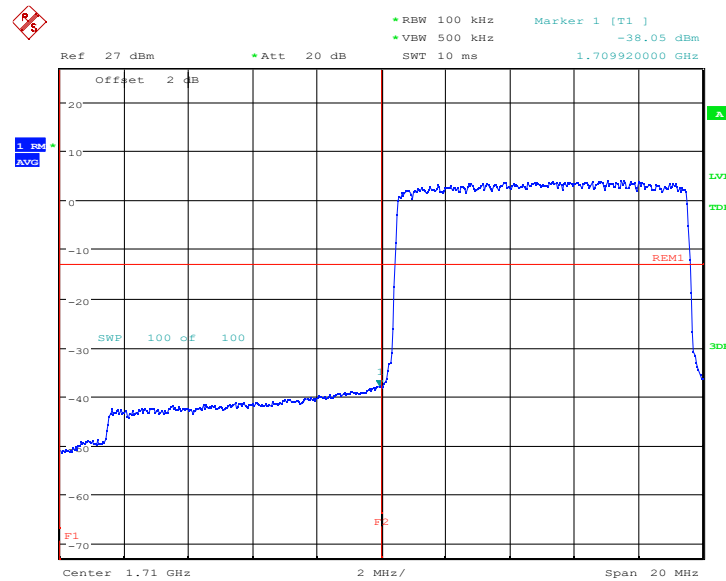
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 23:04:17

LOW BAND EDGE BLOCK-10M-100%RB



Date: 8.SEP.2022 23:02:47

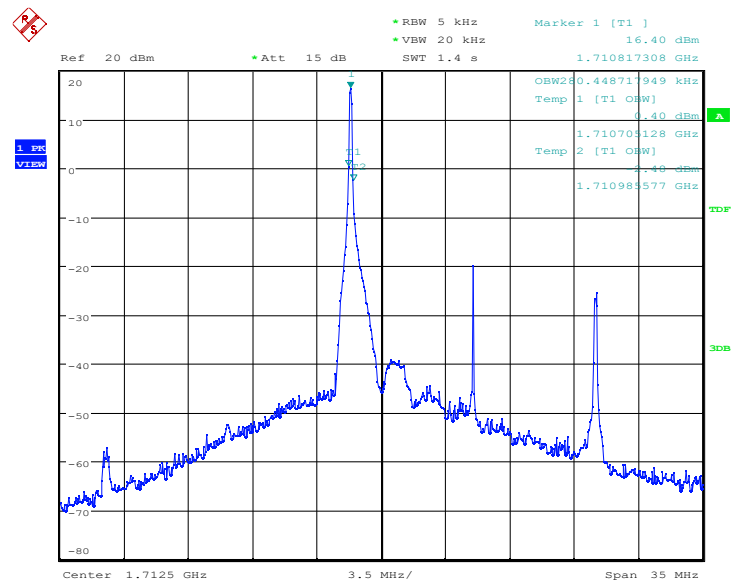
HIGH BAND EDGE BLOCK-10M-100%RB

Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



OBW: 1RB-LOW_offset



Date: 8.SEP.2022 23:05:40

LOW BAND EDGE BLOCK-1RB-LOW_offset

Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Ref 27 dBm • Att 20 dB • RBW 3 kHz • VBW 20 kHz Marker 1 [T1] -53.72 dBm
 SWT 225 ms 1.709982857 GHz

Offset 2 dB

1 93d AVG

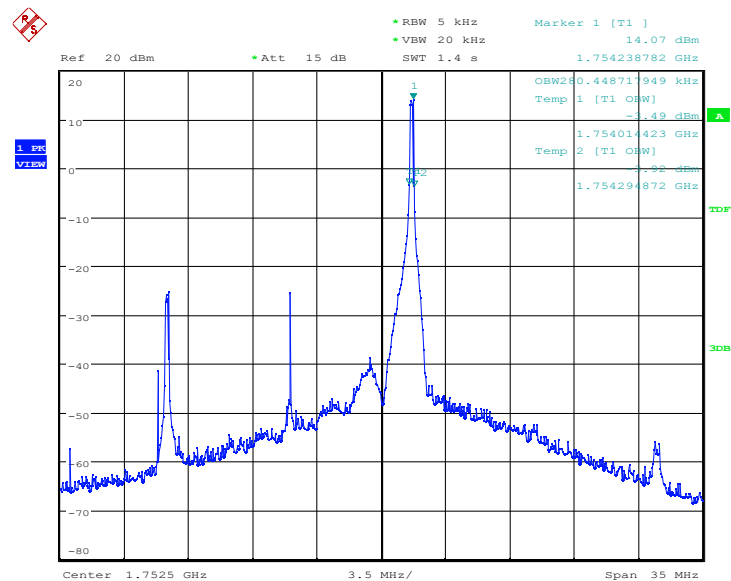
REMI

SWP 100 of 100

F1 F2

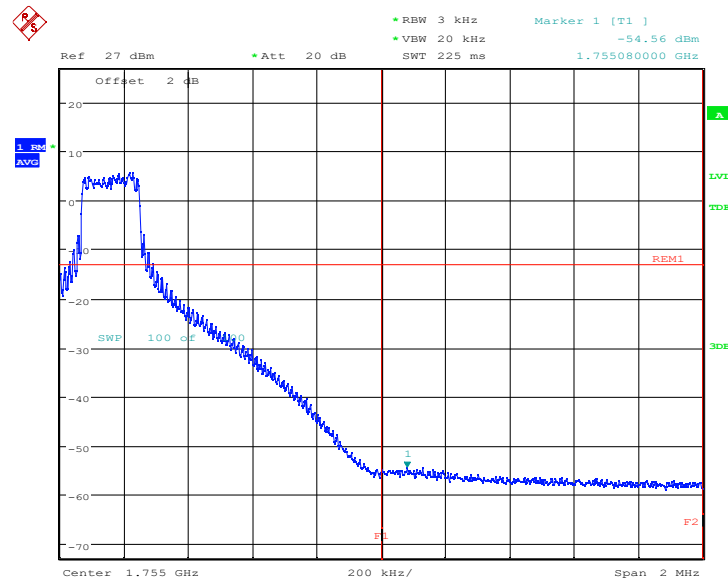
Center 1.71 GHz 200 kHz/ Span 2 MHz

OBW: 1RB-HIGH_offset



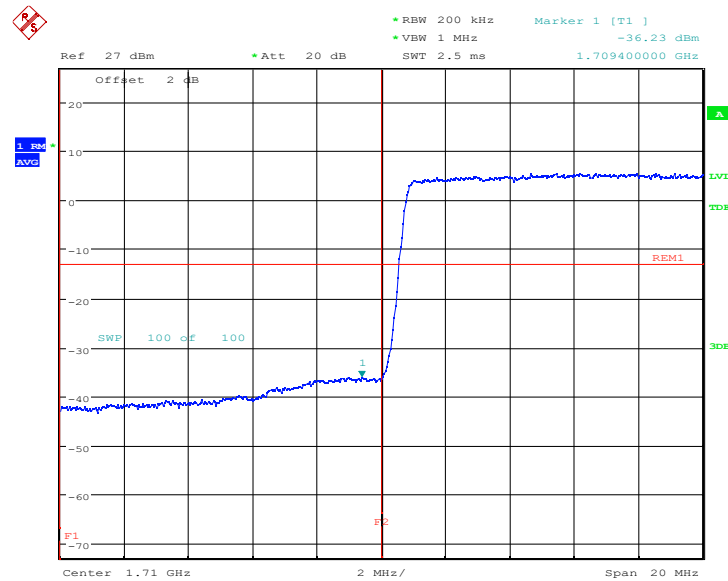
HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Date: 8.SEP.2022 23:08:53

LOW BAND EDGE BLOCK-15M-100%RB

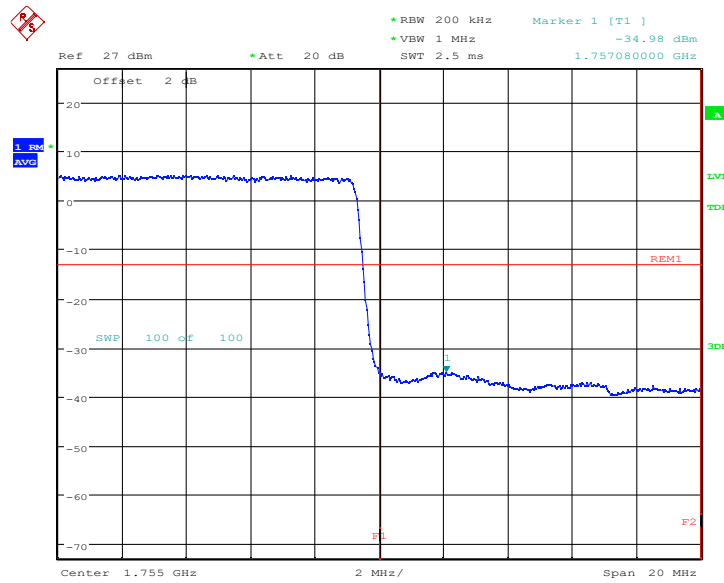


Date: 8.SEP.2022 23:07:27

HIGH BAND EDGE BLOCK-15M-100%RB

Chongqing Academy of Information and Communication Technology

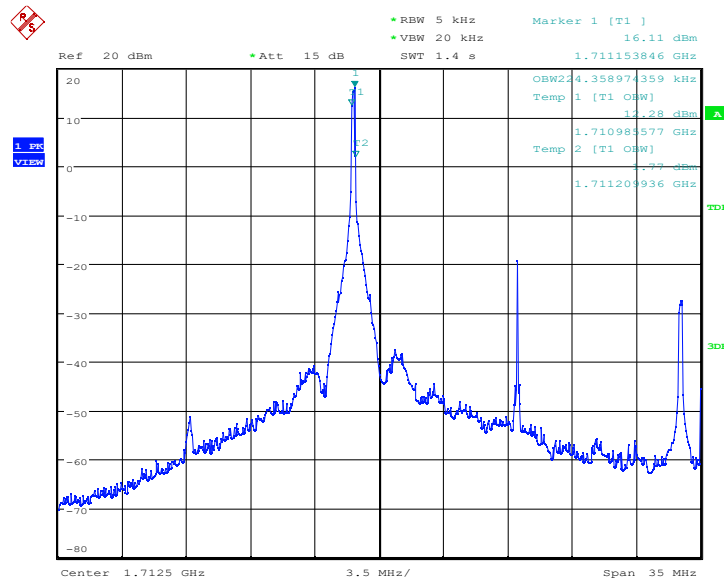
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 23:09:35

LTE band 4-20MHz

OBW: 1RB-LOW_offset



Date: 8.SEP.2022 23:10:18

LOW BAND EDGE BLOCK-1RB-LOW_offset

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Offset 2 dB

1.500 AVG

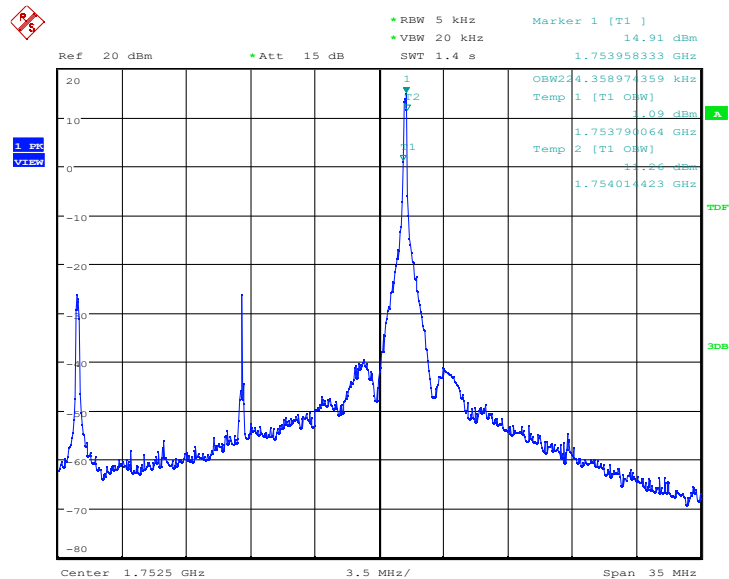
Ref 27 dBm Att 20 dB RBW 3 kHz VBW 20 kHz SWT 225 ms Marker 1 [T1] -41.16 dBm 1.709997143 GHz

SWP 100 of 100

F1 F2

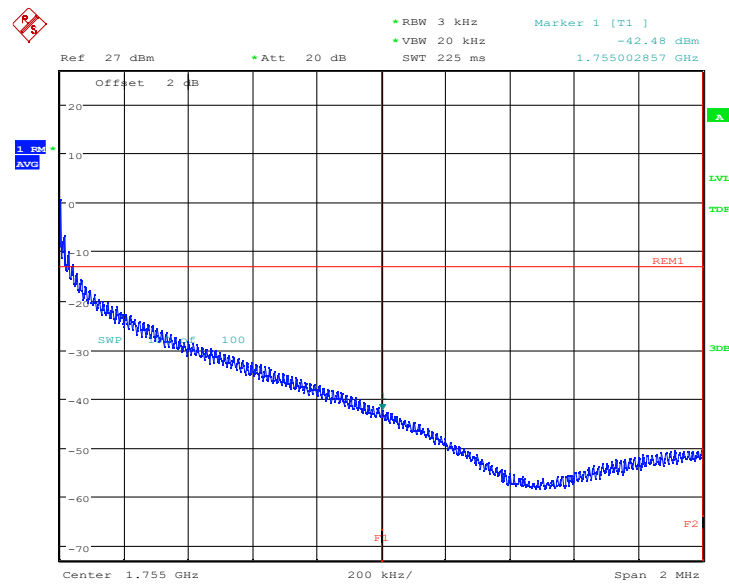
Center 1.71 GHz 200 kHz/ Span 2 MHz

OBW: 1RB-HIGH_offset



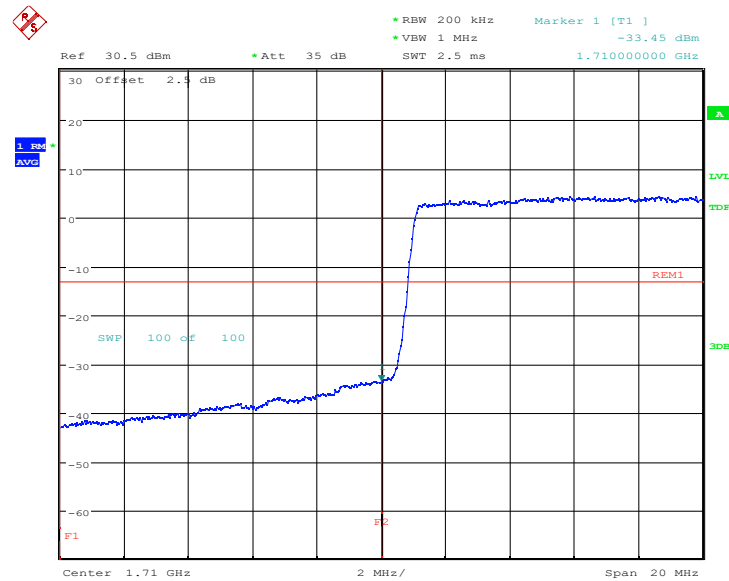
HIGH BAND EDGE BLOCK-1RB-HIGH_offset

FAX:0086-23-88608777



Date: 8.SEP.2022 23:12:50

LOW BAND EDGE BLOCK-20M-100%RB

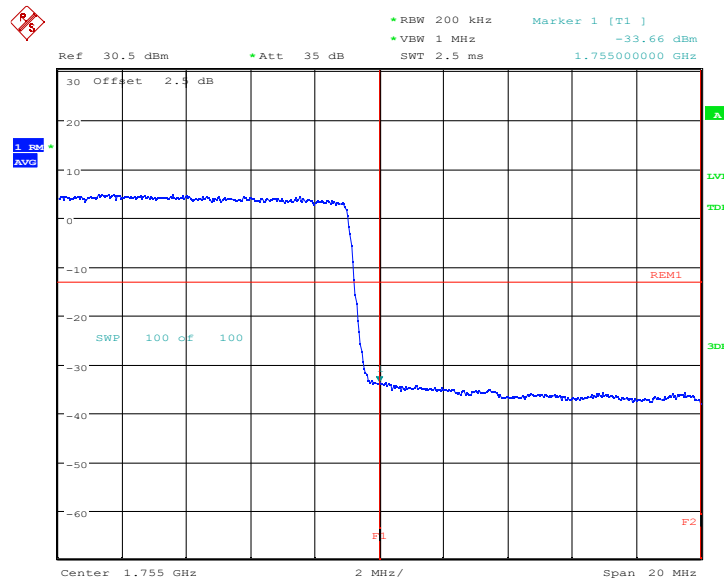


Date: 6.JUL.2022 13:14:05

HIGH BAND EDGE BLOCK-20M-100%RB

Chongqing Academy of Information and Communication Technology

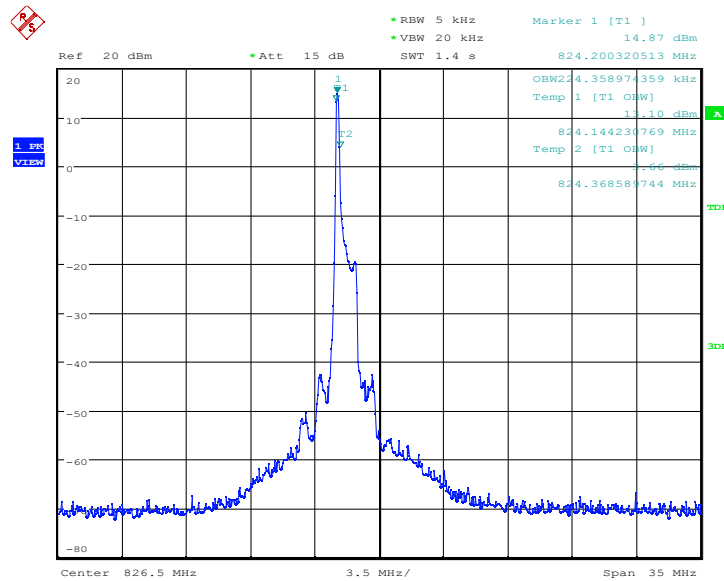
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 6.JUL.2022 13:15:00

LTE band 5-1.4MHz

OBW: 1RB-LOW_offset

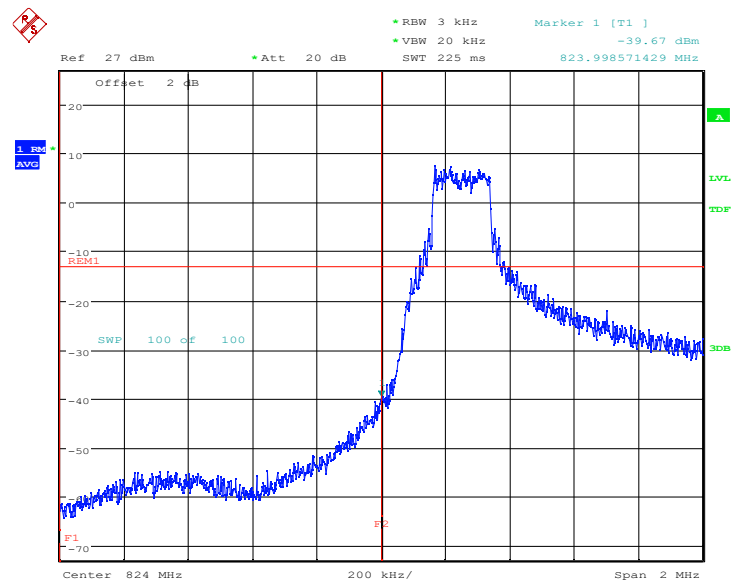


Date: 8.SEP.2022 23:13:58

LOW BAND EDGE BLOCK-1RB-LOW_offset

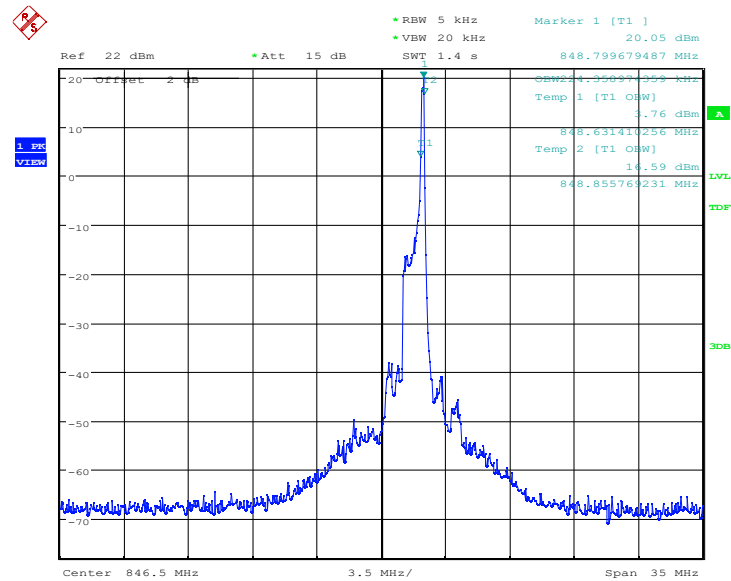
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 23:14:59

OBW: 1RB-HIGH_offset

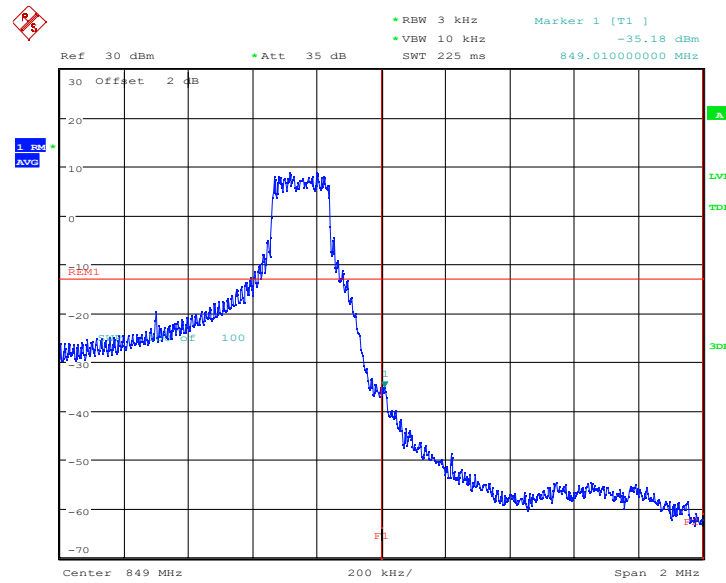


Date: 6.JUL.2022 14:01:05

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

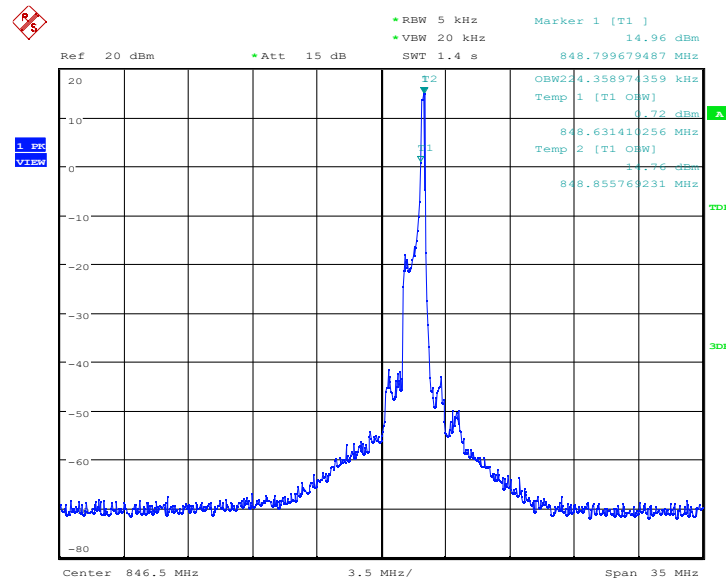
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 6.JUL.2022 14:02:07

OBW: 1RB-HIGH_offset

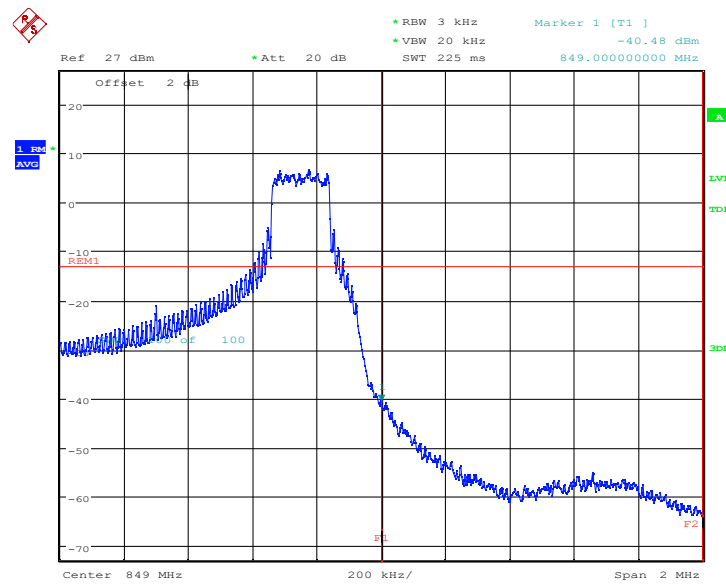


Date: 8.SEP.2022 23:16:08

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

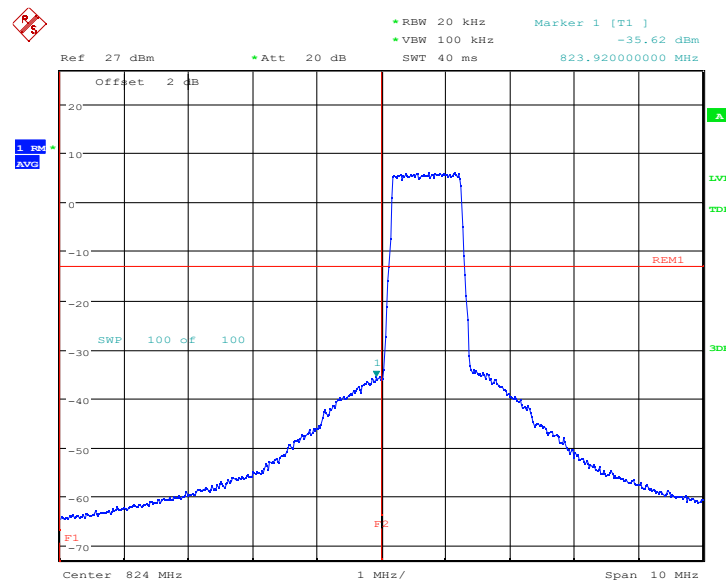
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 8.SEP.2022 23:17:09

LOW BAND EDGE BLOCK-1.4M-100%RB

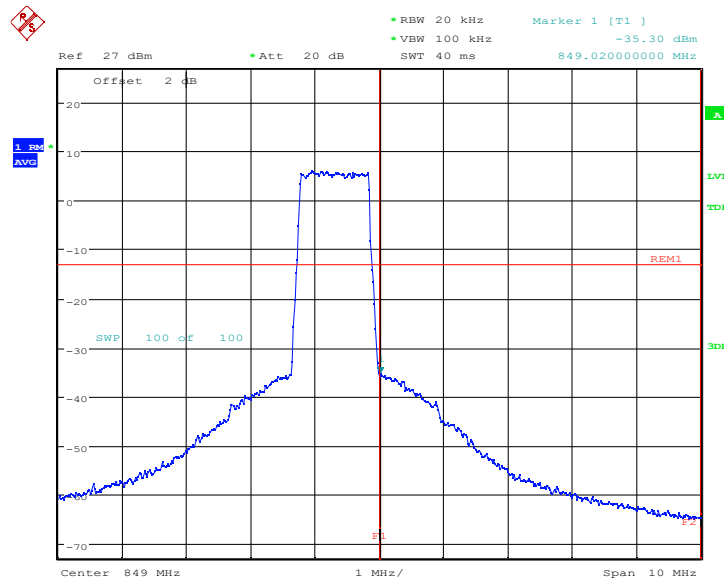


Date: 8.SEP.2022 23:15:44

HIGH BAND EDGE BLOCK-1.4M-100%RB

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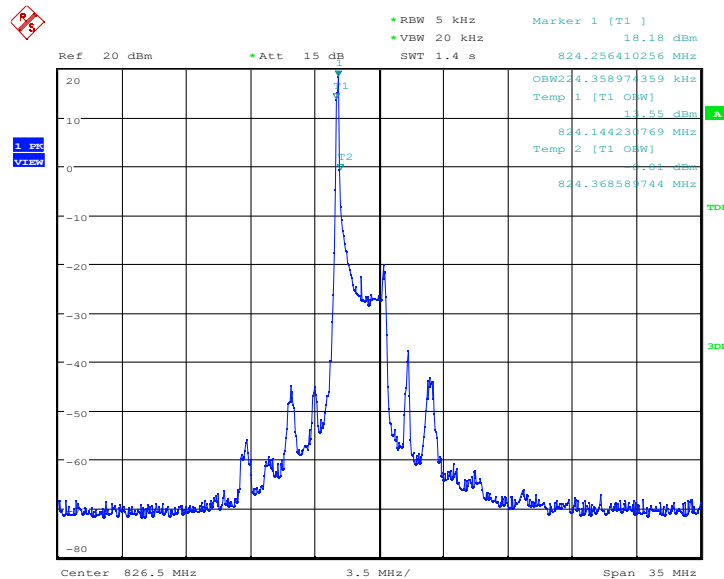
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 23:17:55

LTE band 5-3MHz

OBW: 1RB-LOW_offset



Date: 8.SEP.2022 23:18:24

LOW BAND EDGE BLOCK-1RB-LOW_offset

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Ref 27 dBm * Att 20 dB * RBW 3 kHz * VBW 20 kHz Marker 1 [T1] -37.17 dBm
SWT 225 ms 823.99000000 MHz

Offset 2 dB

1 3dB
AVC

RFL

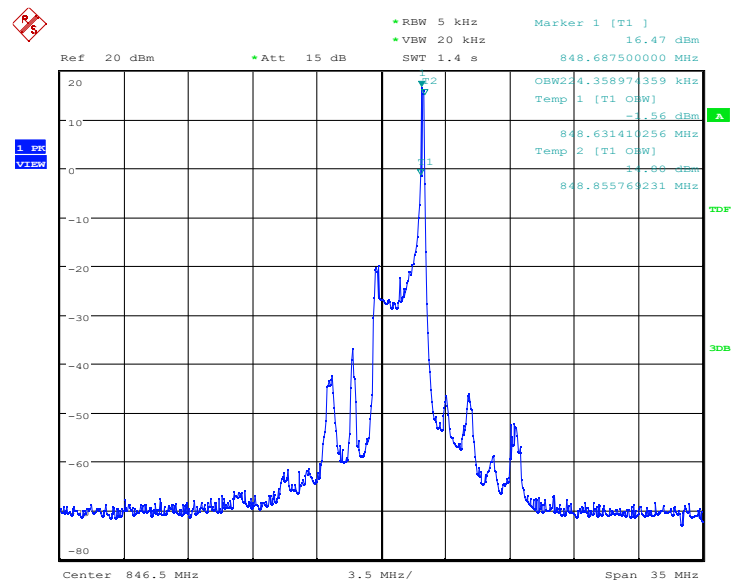
SWP 100 of 100

F1

F2

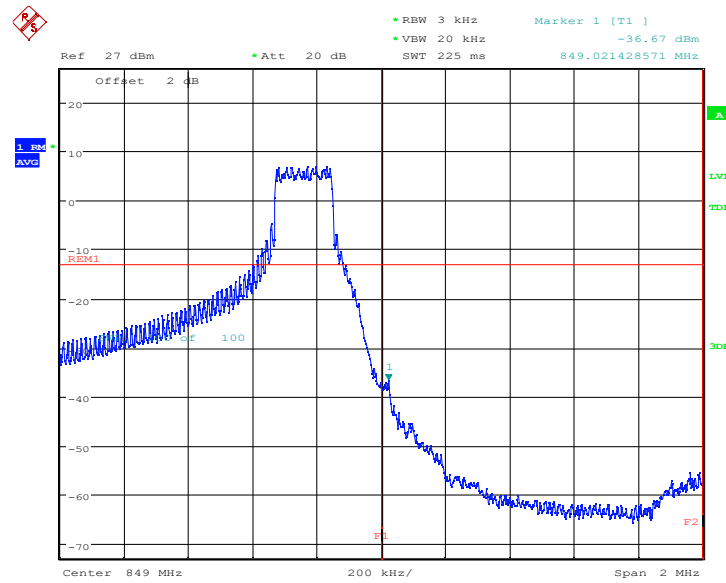
Center 824 MHz 200 kHz/ Span 2 MHz

OBW: 1RB-HIGH_offset



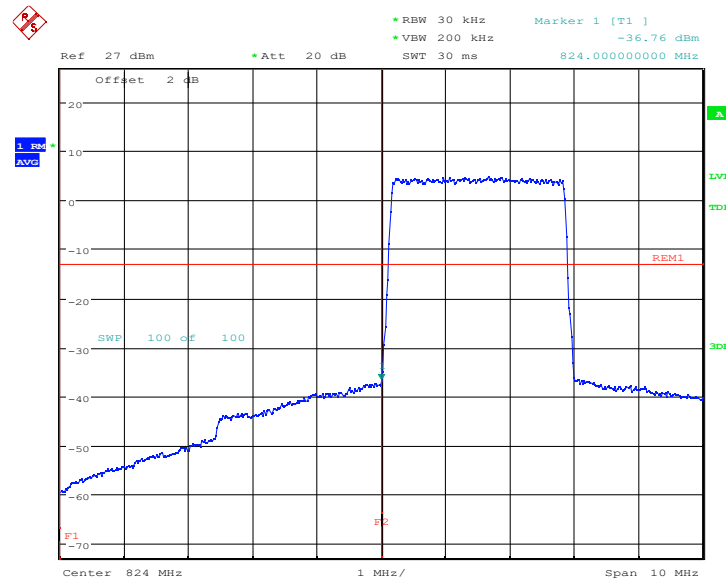
HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Date: 8.SEP.2022 23:21:35

LOW BAND EDGE BLOCK-3M-100%RB

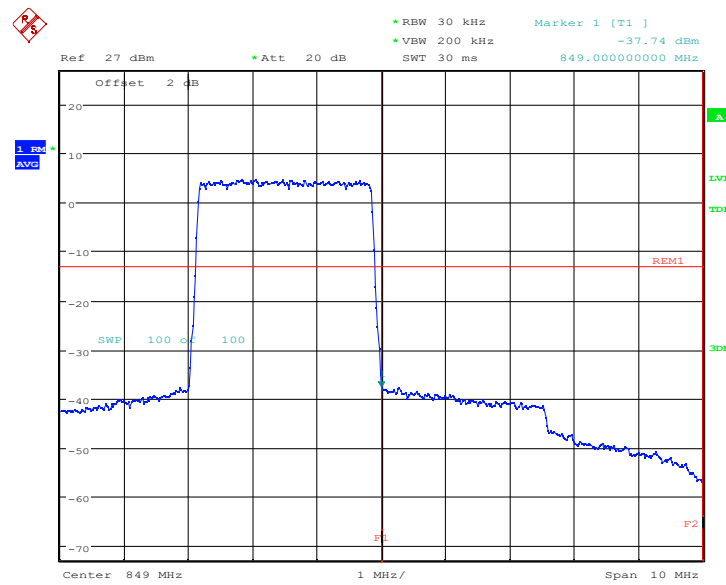


Date: 8.SEP.2022 23:20:09

HIGH BAND EDGE BLOCK-3M-100%RB

Chongqing Academy of Information and Communication Technology

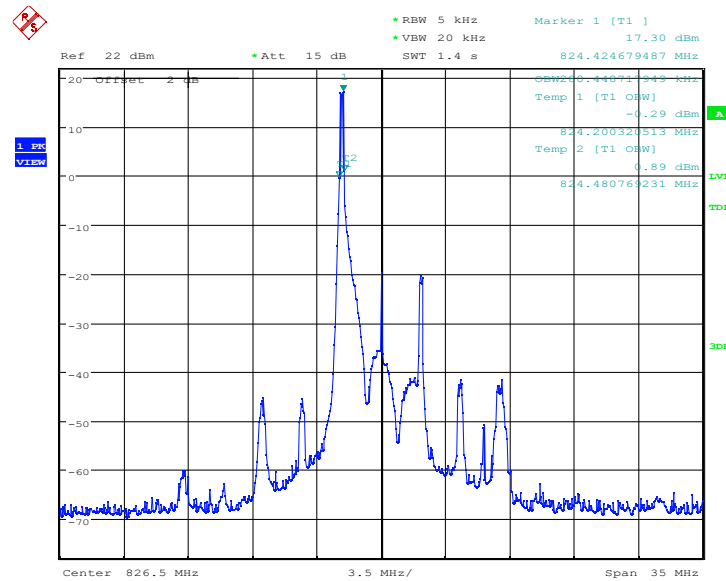
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 23:22:19

LTE band 5-5MHz

OBW: 1RB-LOW_offset

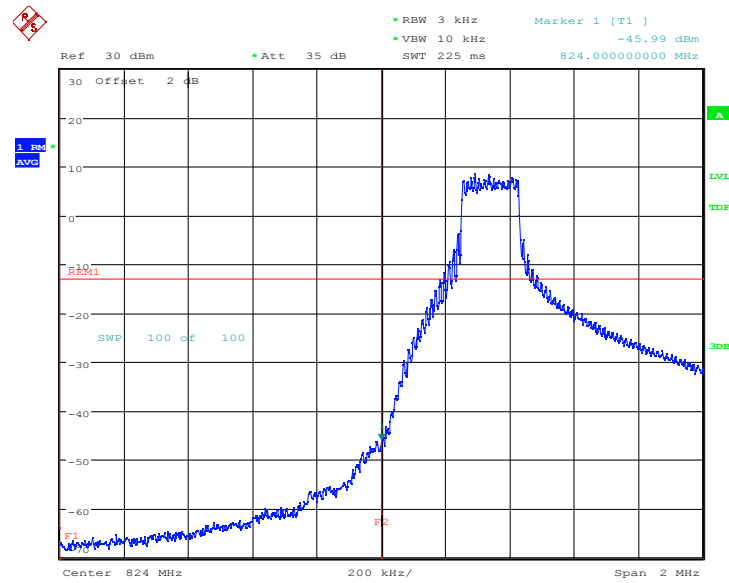


Date: 6.JUL.2022 13:59:32

LOW BAND EDGE BLOCK-1RB-LOW_offset

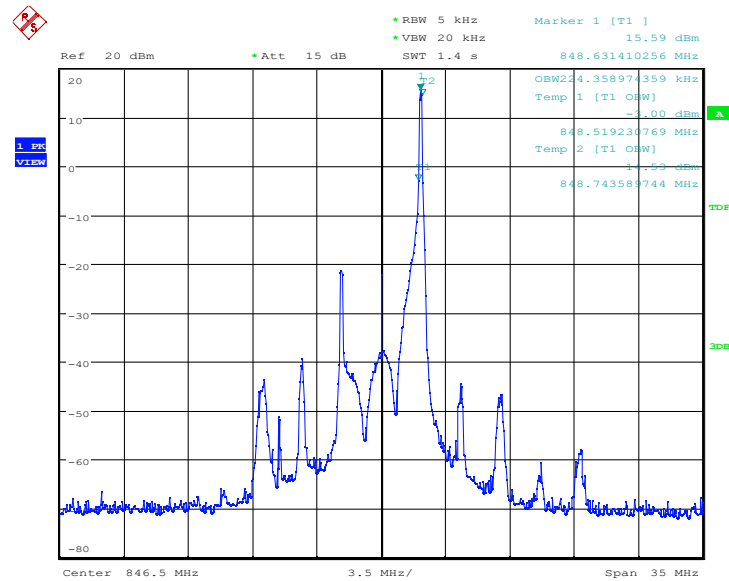
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Date: 6.JUL.2022 14:00:34

OBW: 1RB-HIGH_offset

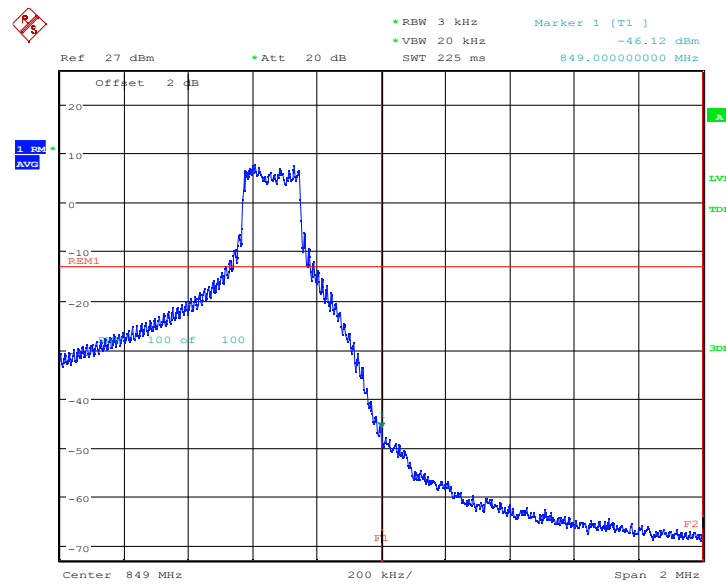


Date: 8.SEP.2022 23:23:51

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

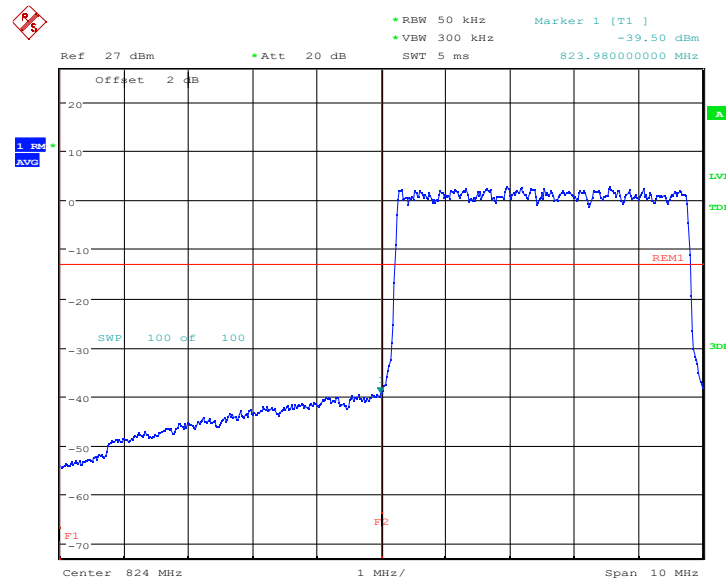
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Date: 8.SEP.2022 23:24:52

LOW BAND EDGE BLOCK-5M-100%RB



Date: 8.SEP.2022 23:23:24

HIGH BAND EDGE BLOCK-5M-100%RB

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Ref 27 dBm Att 20 dB RBW 50 kHz VBW 300 kHz SWT 5 ms Marker 1 [T1] -39.43 dBm 849.52000000 MHz

Offset 2 dB

1 13d AVG

SWP 100 of 100

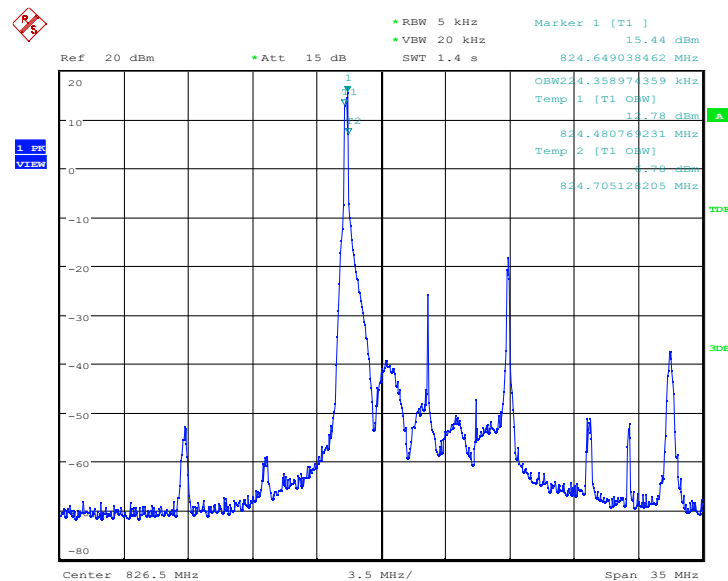
1

F1

F2

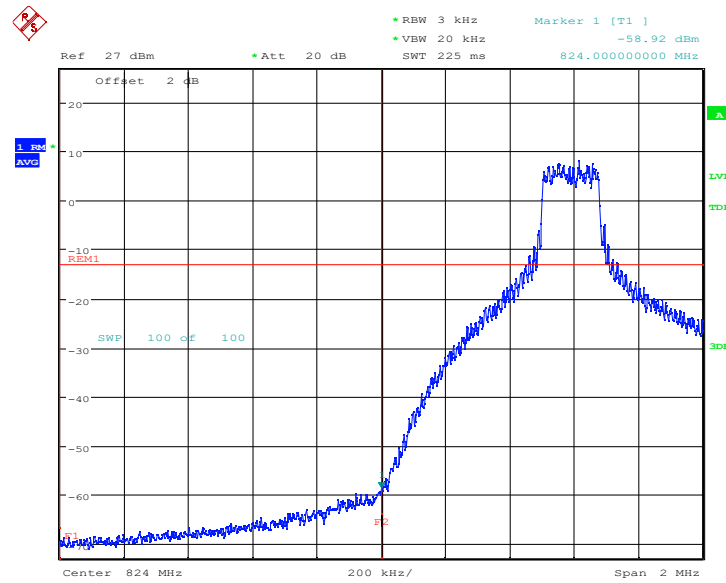
Center 849 MHz 1 MHz/ Span 10 MHz

OBW: 1RB-LOW_offset



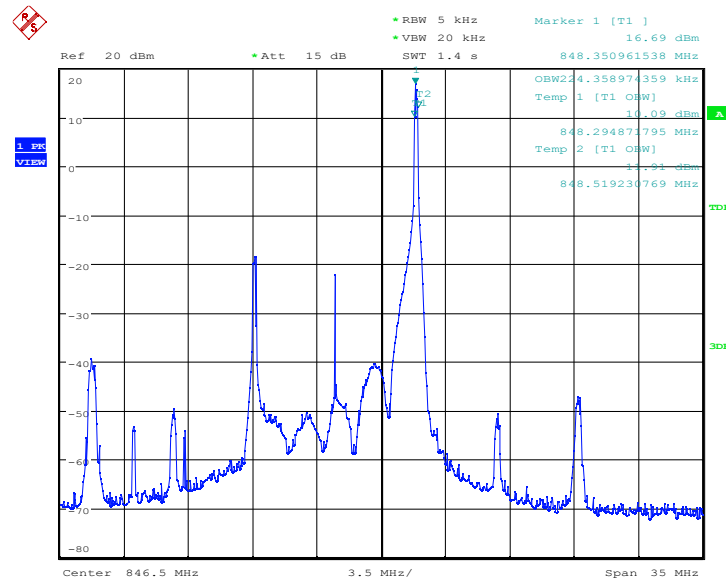
LOW BAND EDGE BLOCK-1RB-LOW_offset

FAX:0086-23-88608777



Date: 8.SEP.2022 23:27:09

OBW: 1RB-HIGH_offset

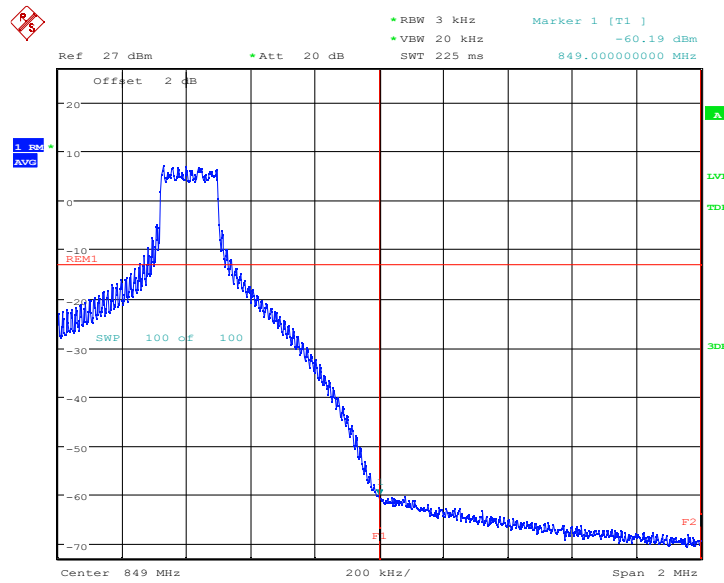


Date: 8.SEP.2022 23:27:36

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

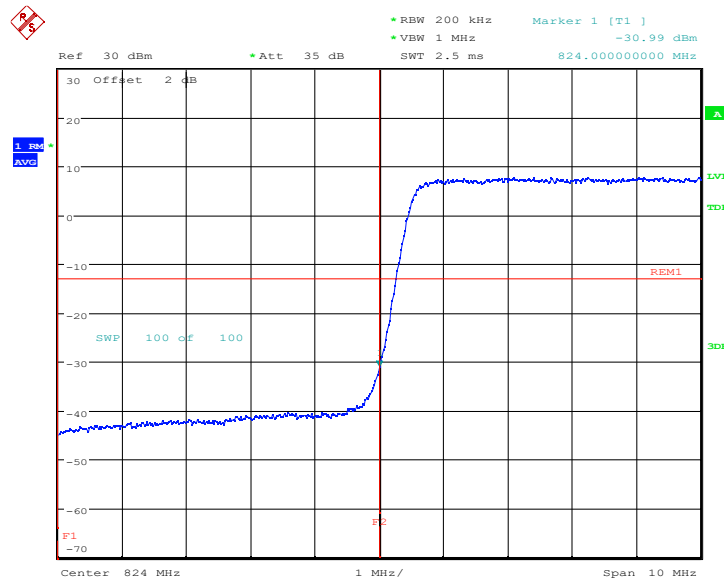
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Date: 8.SEP.2022 23:28:37

LOW BAND EDGE BLOCK-10M-100%RB



Date: 6.JUL.2022 13:16:31

HIGH BAND EDGE BLOCK-10M-100%RB

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Ref 30 dBm Att 35 dB RBW 200 kHz Marker 1 [T1] -29.11 dBm
 VBW 1 MHz SWT 2.5 ms 849.000000000 MHz

30 Offset 2 dB

1 93d
 AVG

SWP 100 of 100

REM1

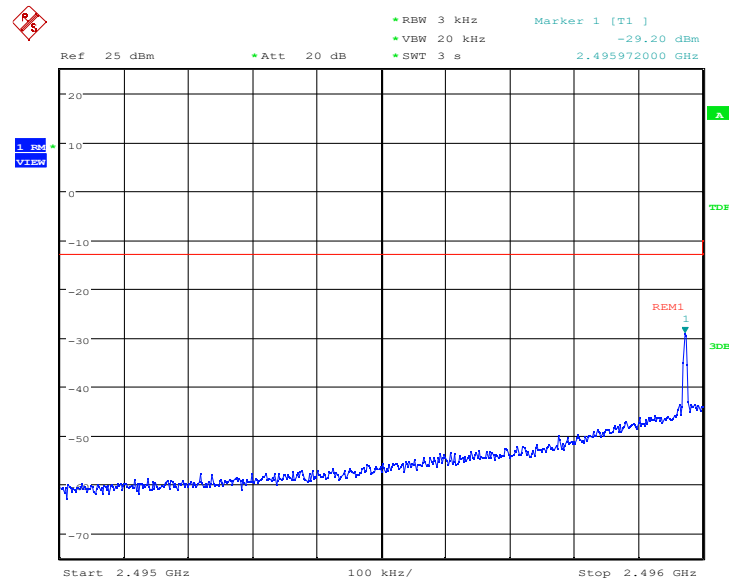
F1

F2

Center 849 MHz 1 MHz/ Span 10 MHz

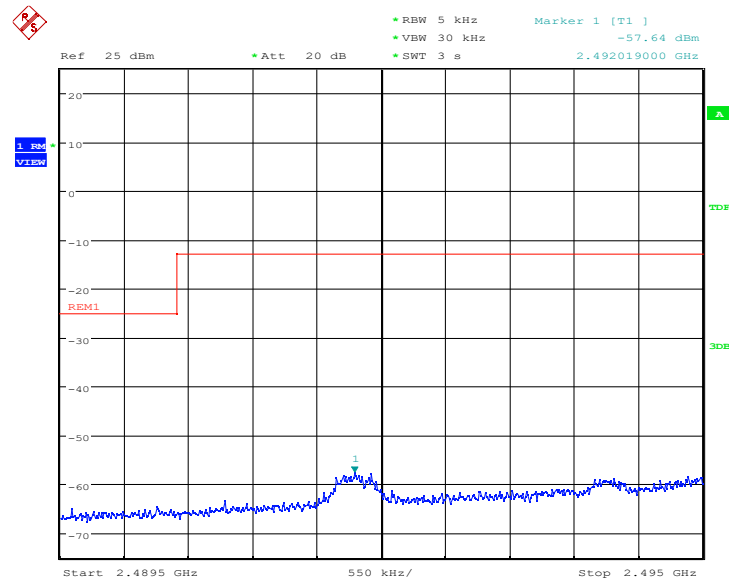
Ref 20 dBm
 Att 15 dB
 RBW 5 kHz
 VBW 20 kHz
 SWT 1.4 s
 Marker 1 [T1]
 13.02 dBm
 2.496424679 GHz
 OBW24.358974359 kHz
 Temp 1 [T1 OBW]
 13.33 dBm
 2.496254410 GHz
 Temp 2 [T1 OBW]
 13.63 dBm
 2.496480769 GHz
 Center 2.4985 GHz
 3.5 MHz/
 Span 35 MHz

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Date: 8.SEP.2022 23:30:17

LOW BAND EDGE BLOCK-1RB-LOW_offset

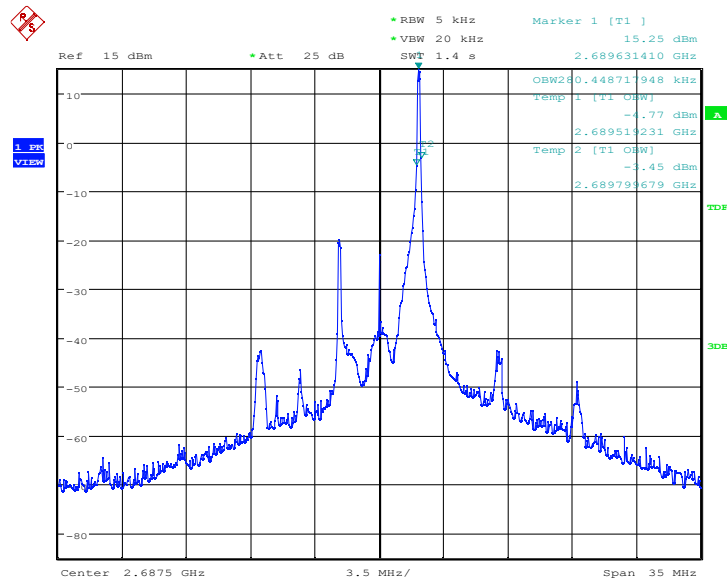


Date: 8.SEP.2022 23:30:59

OBW: 1RB-HIGH_offset

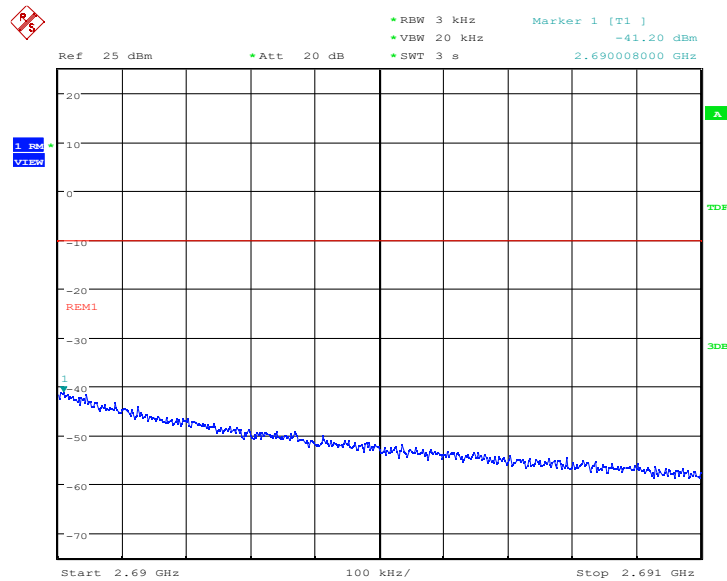
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Date: 8.SEP.2022 23:32:55

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

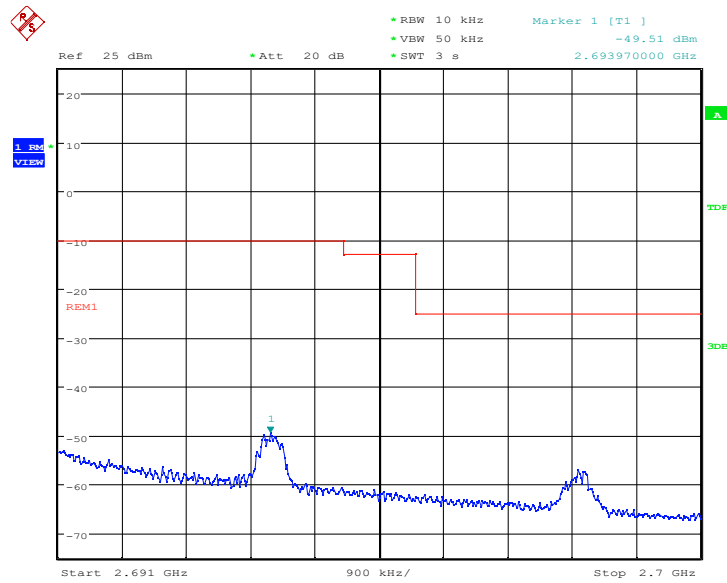


Date: 8.SEP.2022 23:33:36

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

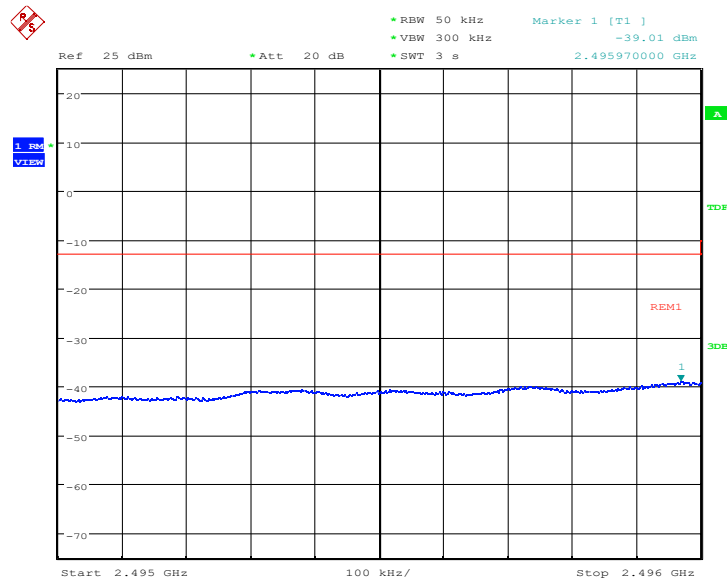
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Date: 8.SEP.2022 23:34:18

LOW BAND EDGE BLOCK-5M-100%RB

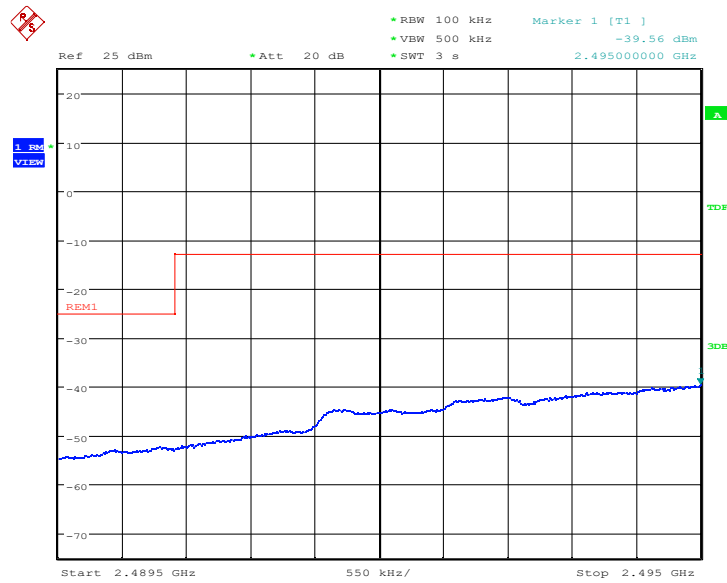


Date: 8.SEP.2022 23:31:42

LOW BAND EDGE BLOCK-5M-100%RB

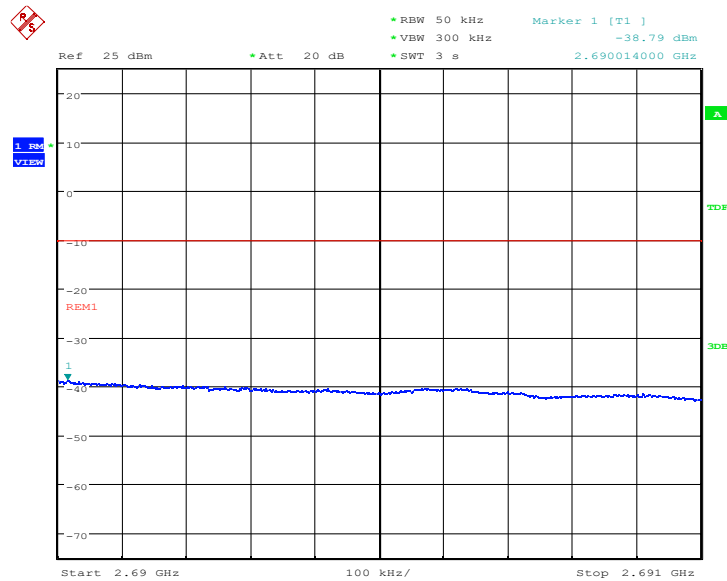
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Date: 8.SEP.2022 23:32:24

HIGH BAND EDGE BLOCK-5M-100%RB

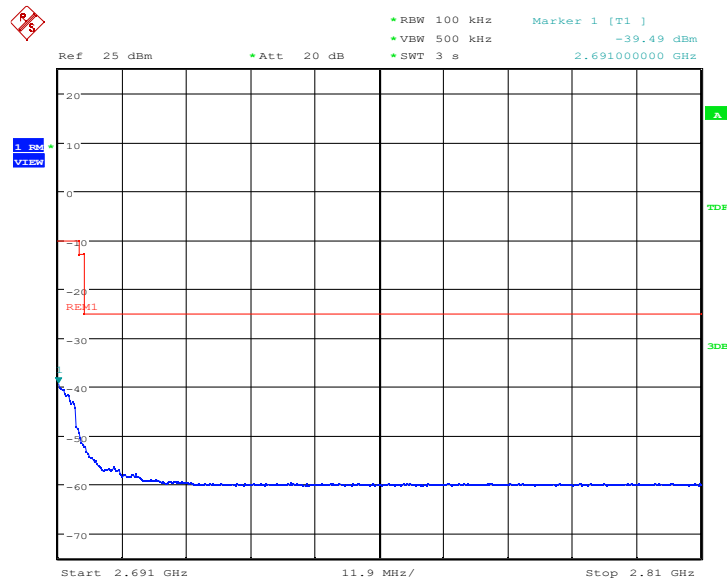


Date: 8.SEP.2022 23:35:01

HIGH BAND EDGE BLOCK-5M-100%RB

Chongqing Academy of Information and Communication Technology

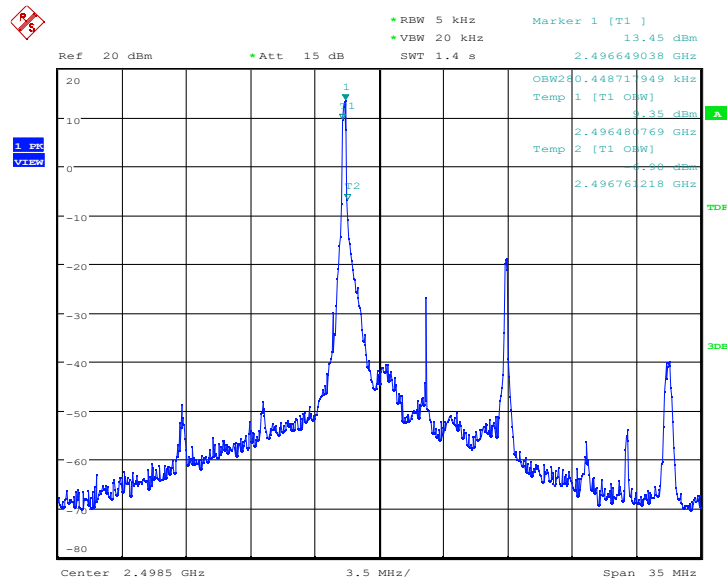
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Date: 8.SEP.2022 23:35:42

LTE band 41-10MHz

OBW: 1RB-LOW_offset

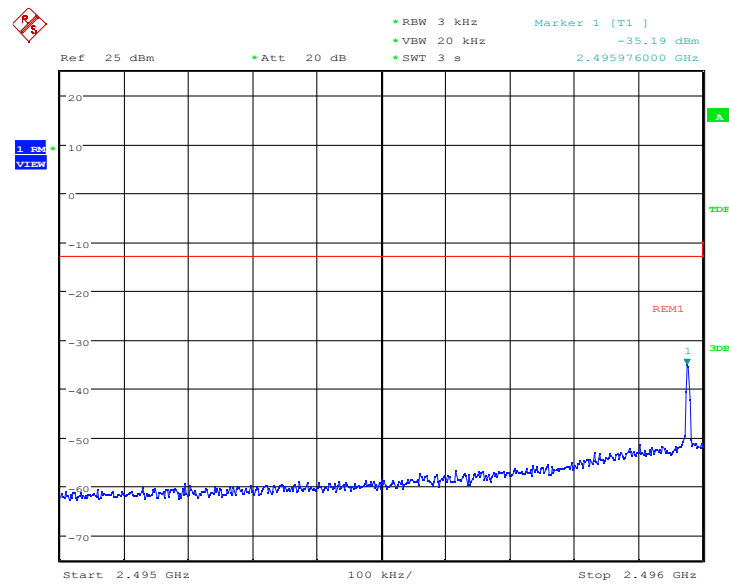


Date: 8.SEP.2022 23:36:48

LOW BAND EDGE BLOCK-1RB-LOW_offset

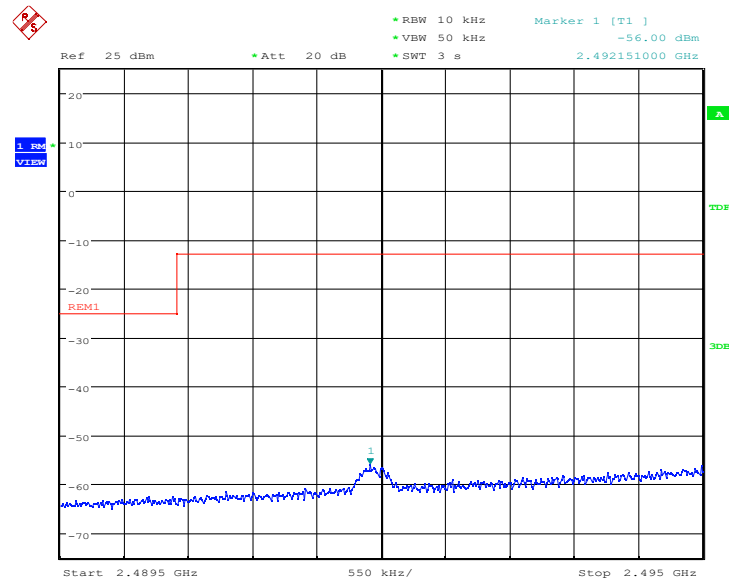
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Date: 8.SEP.2022 23:37:30

LOW BAND EDGE BLOCK-1RB-LOW_offset

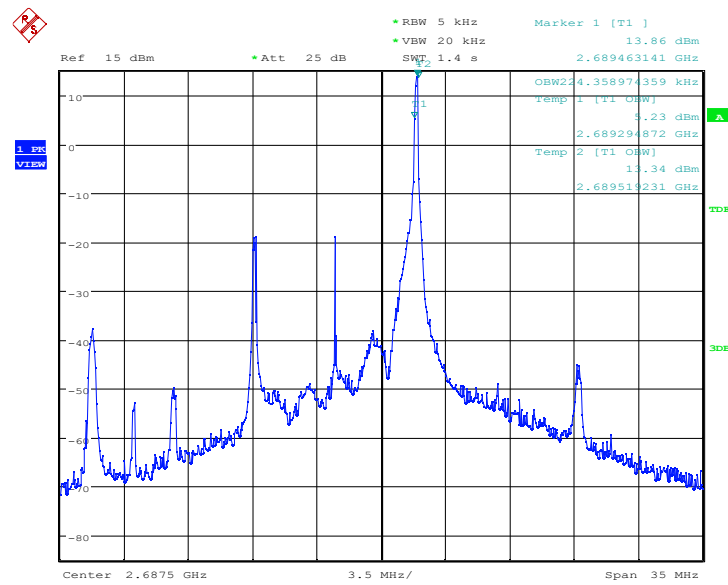


Date: 8.SEP.2022 23:38:11

OBW: 1RB-HIGH_offset

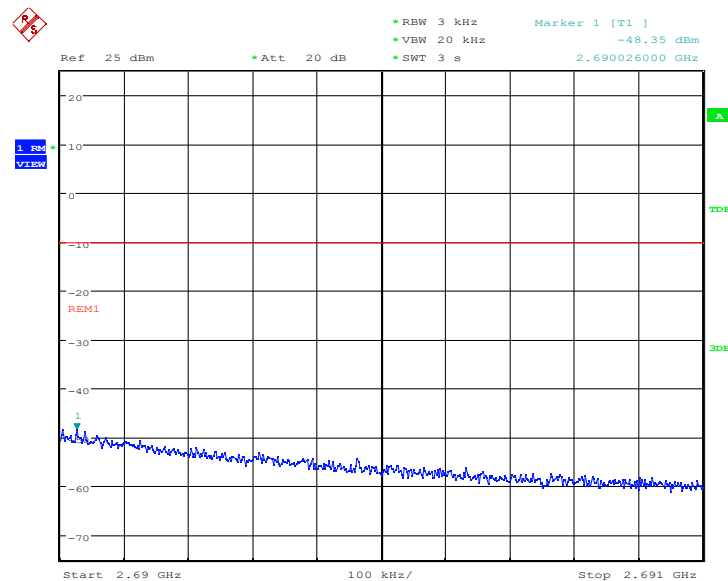
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Date: 8.SEP.2022 23:40:00

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

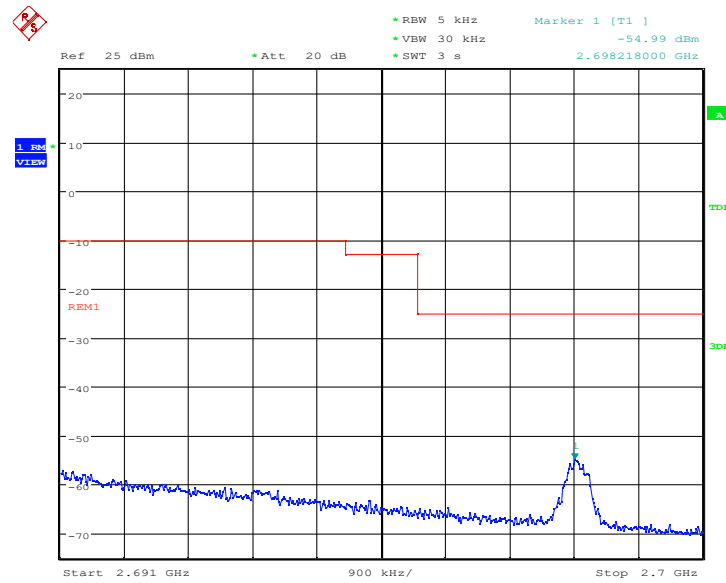


Date: 8.SEP.2022 23:40:41

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

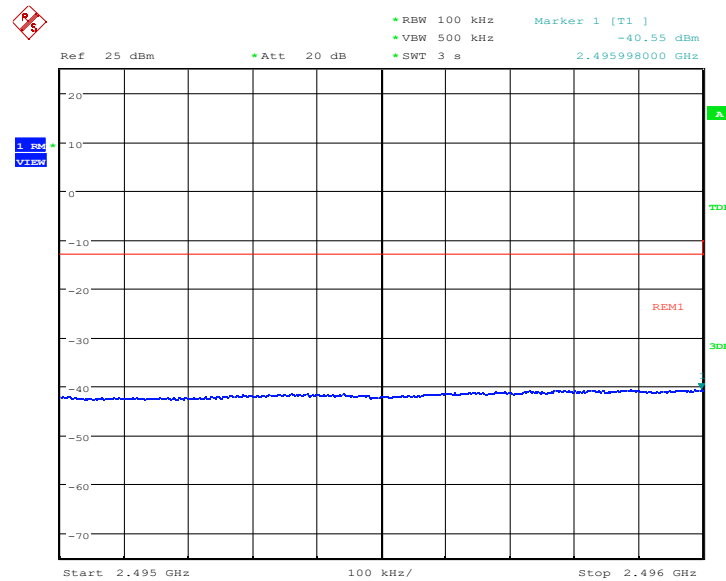
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Date: 8.SEP.2022 23:41:22

LOW BAND EDGE BLOCK-10M-100%RB

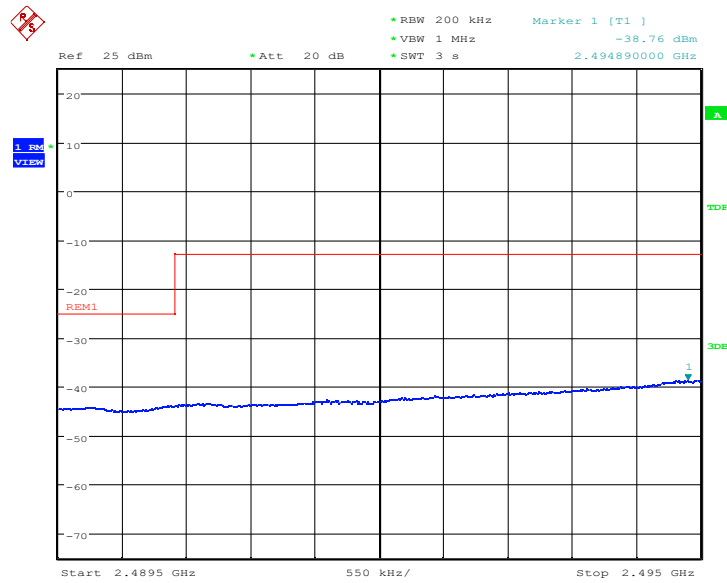


Date: 8.SEP.2022 23:38:54

LOW BAND EDGE BLOCK-10M-100%RB

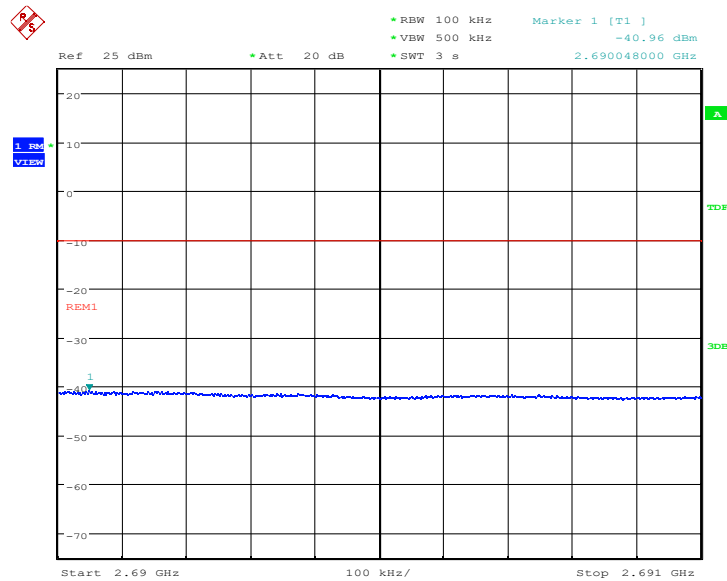
Chongqing Academy of Information and Communication Technology

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Date: 8.SEP.2022 23:39:35

HIGH BAND EDGE BLOCK-10M-100%RB

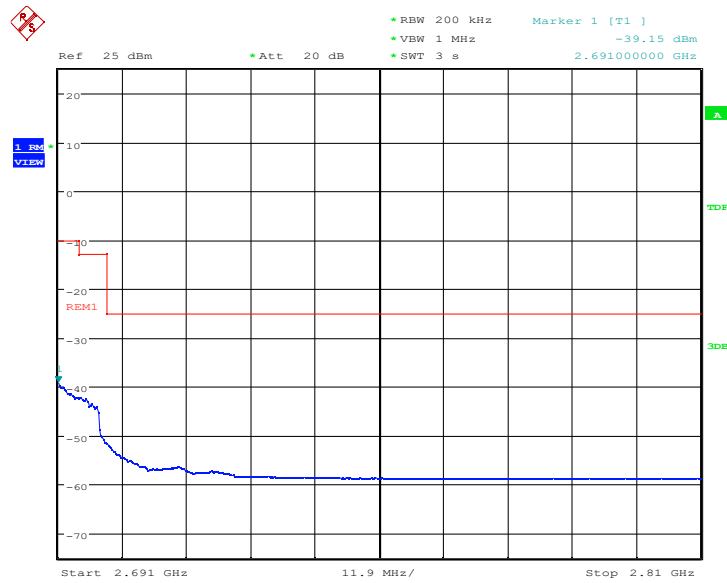


Date: 8.SEP.2022 23:42:05

HIGH BAND EDGE BLOCK-10M-100%RB

Chongqing Academy of Information and Communication Technology

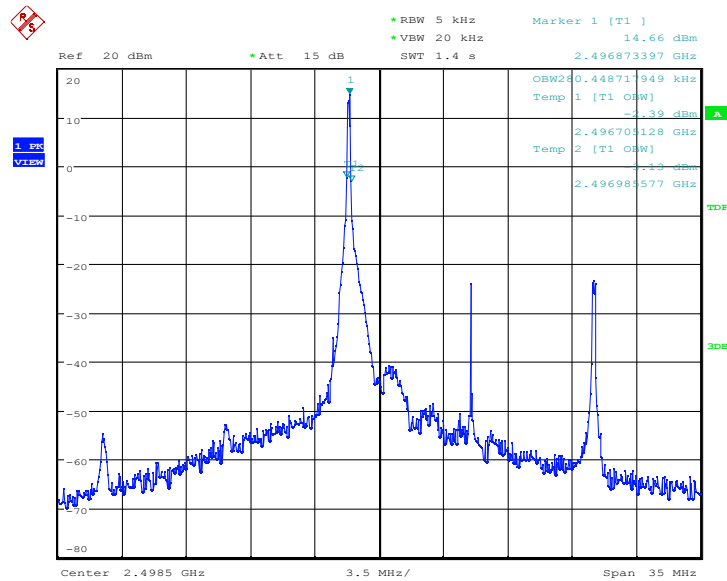
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Date: 8.SEP.2022 23:42:47

LTE band 41-15MHz

OBW: 1RB-LOW_offset

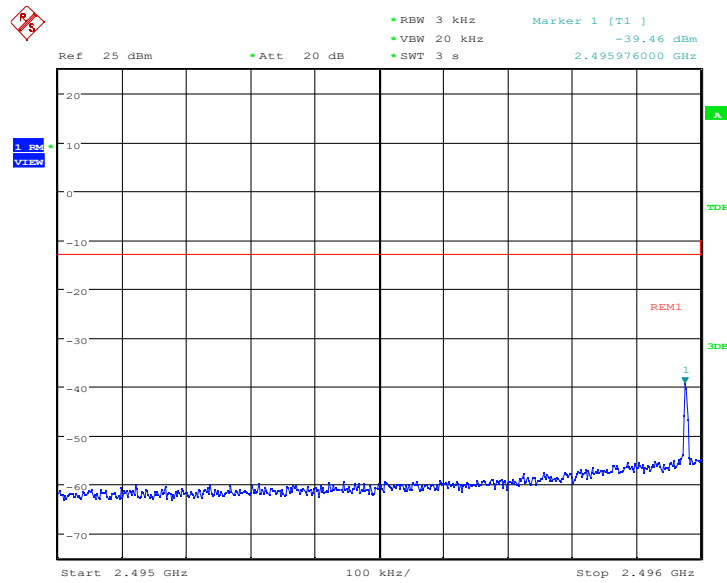


Date: 8.SEP.2022 23:43:53

LOW BAND EDGE BLOCK-1RB-LOW_offset

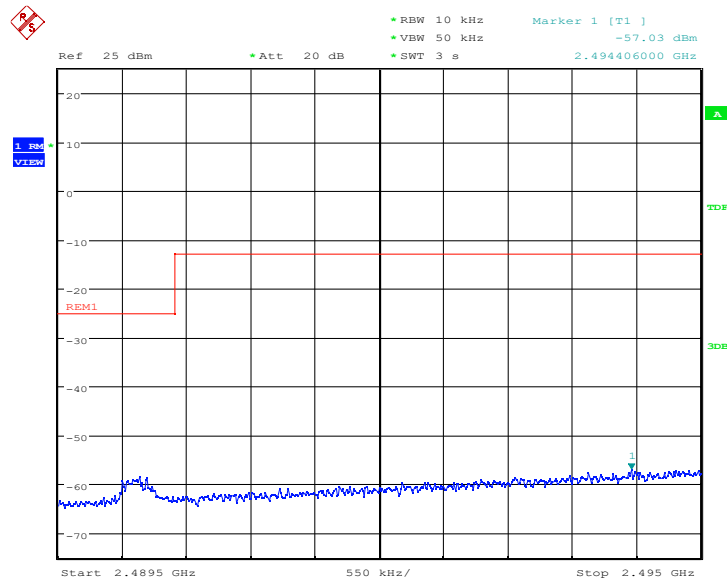
Chongqing Academy of Information and Communication Technology

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Date: 8.SEP.2022 23:44:34

LOW BAND EDGE BLOCK-1RB-LOW_offset

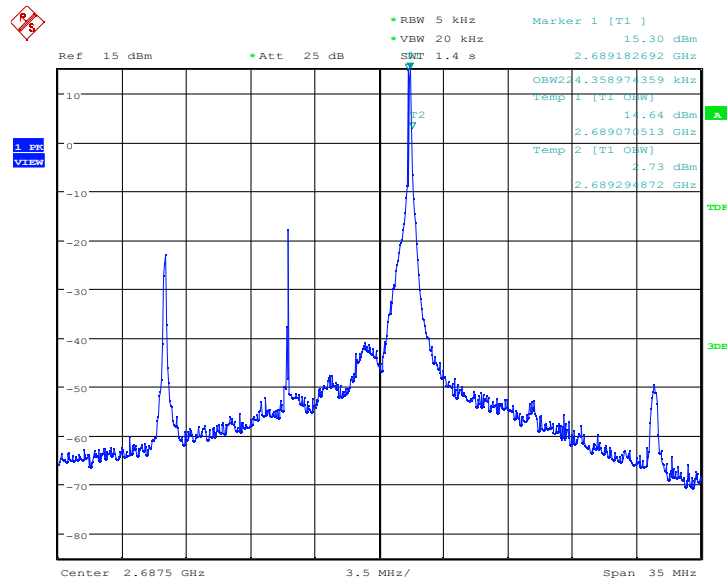


Date: 8.SEP.2022 23:45:16

OBW: 1RB-HIGH_offset

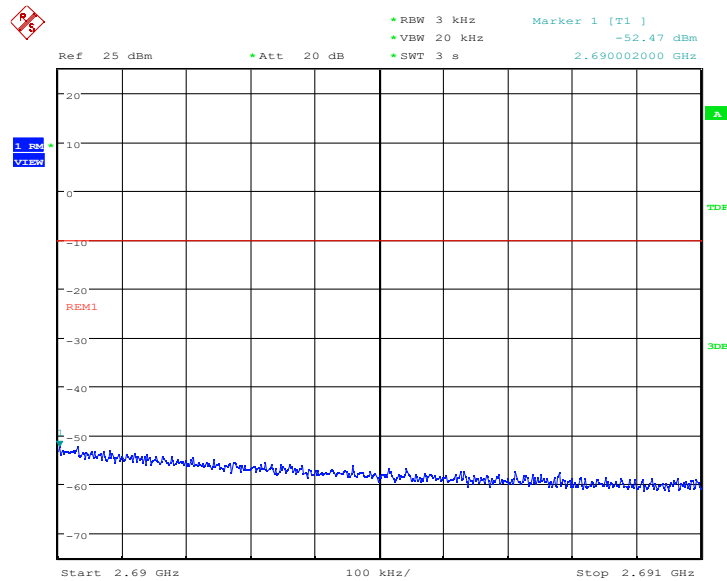
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Date: 8.SEP.2022 23:47:05

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

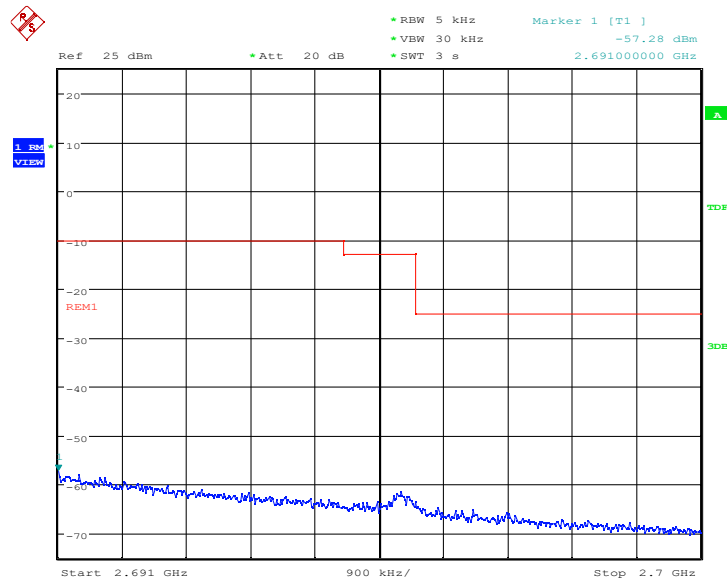


Date: 8.SEP.2022 23:47:46

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

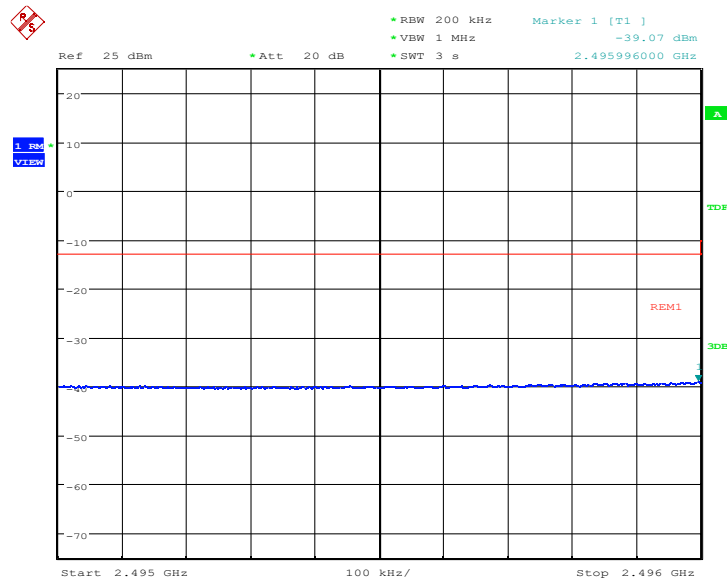
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Date: 8.SEP.2022 23:48:28

LOW BAND EDGE BLOCK-15M-100%RB

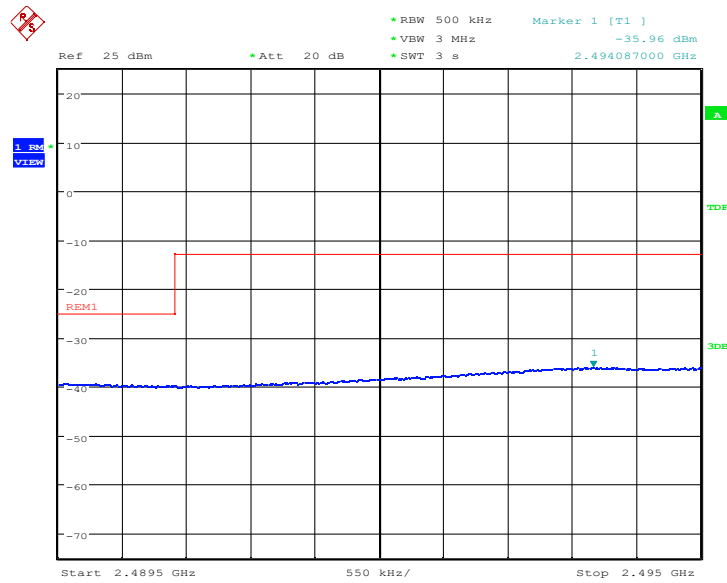


Date: 8.SEP.2022 23:45:58

LOW BAND EDGE BLOCK-15M-100%RB

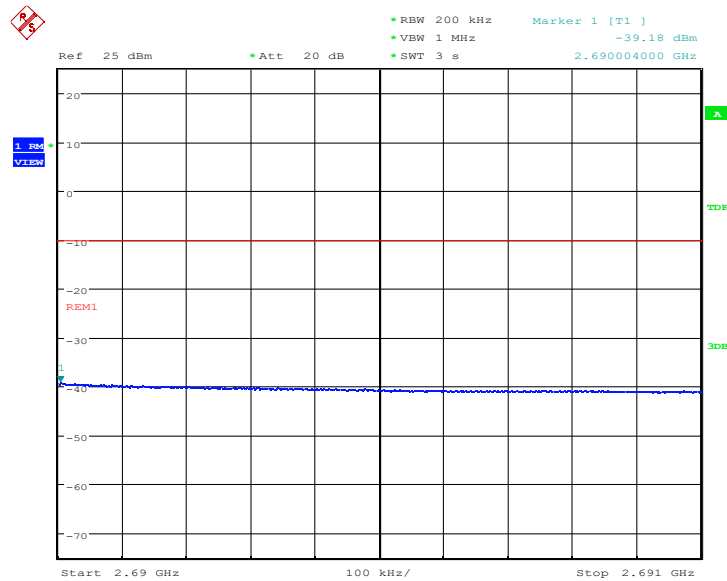
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 8.SEP.2022 23:46:40

HIGH BAND EDGE BLOCK-15M-100%RB

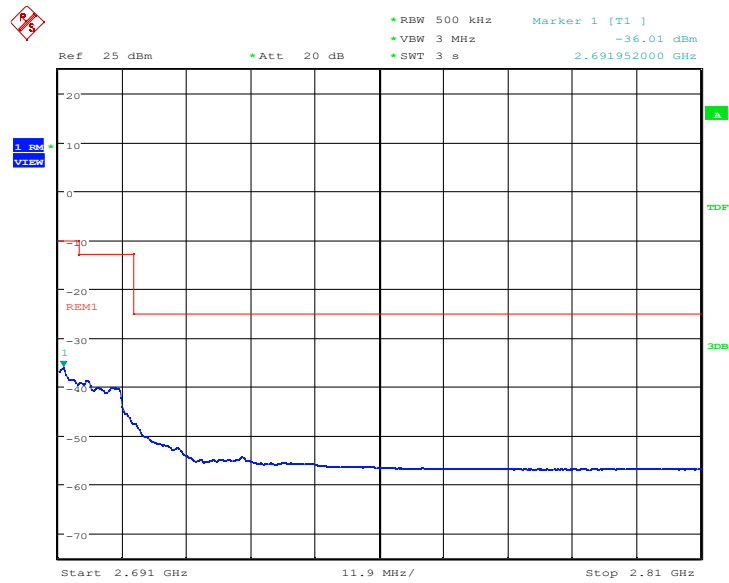


Date: 8.SEP.2022 23:49:11

HIGH BAND EDGE BLOCK-15M-100%RB

Chongqing Academy of Information and Communication Technology

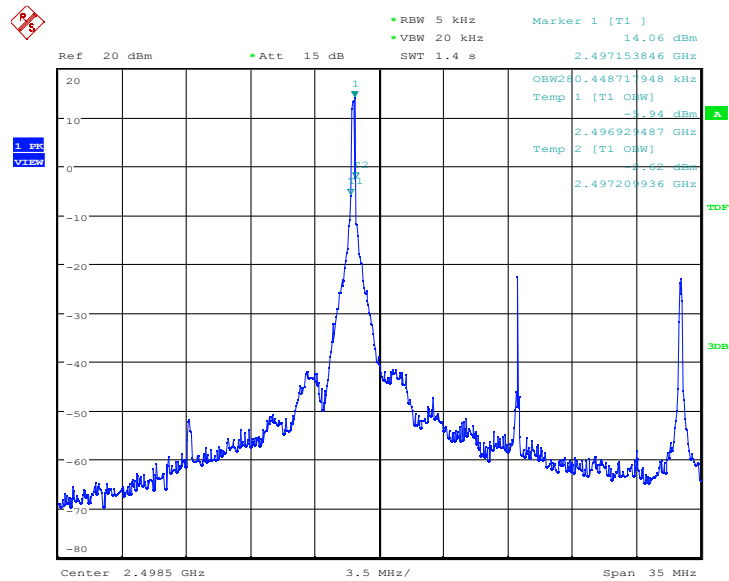
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 8.SEP.2022 23:49:52

LTE band 41-20MHz

OBW: 1RB-LOW_offset

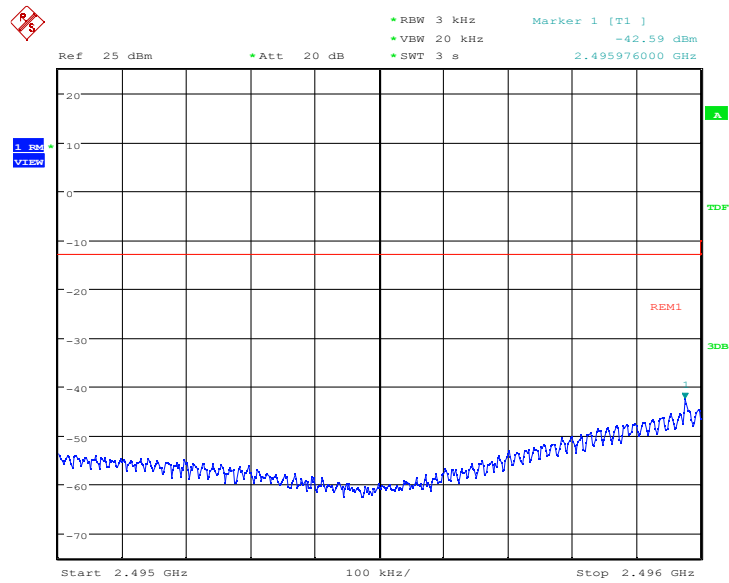


Date: 8.SEP.2022 23:50:58

LOW BAND EDGE BLOCK-1RB-LOW_offset

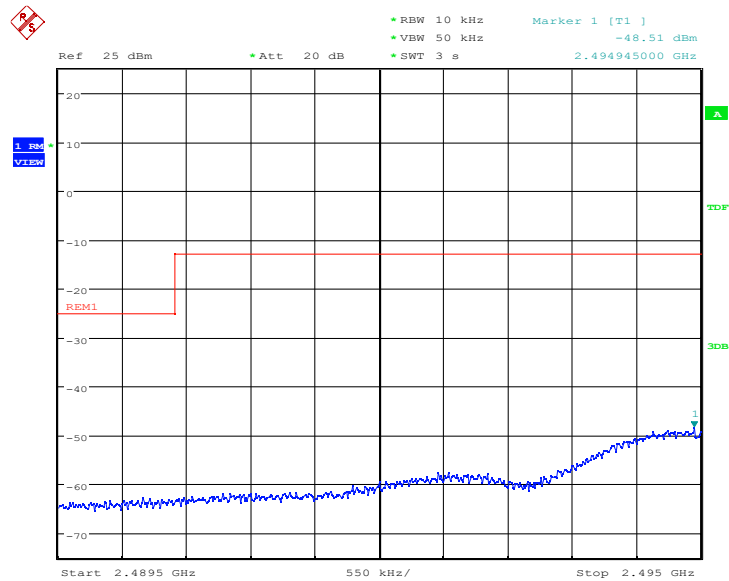
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 8.SEP.2022 23:51:43

LOW BAND EDGE BLOCK-1RB-LOW_offset

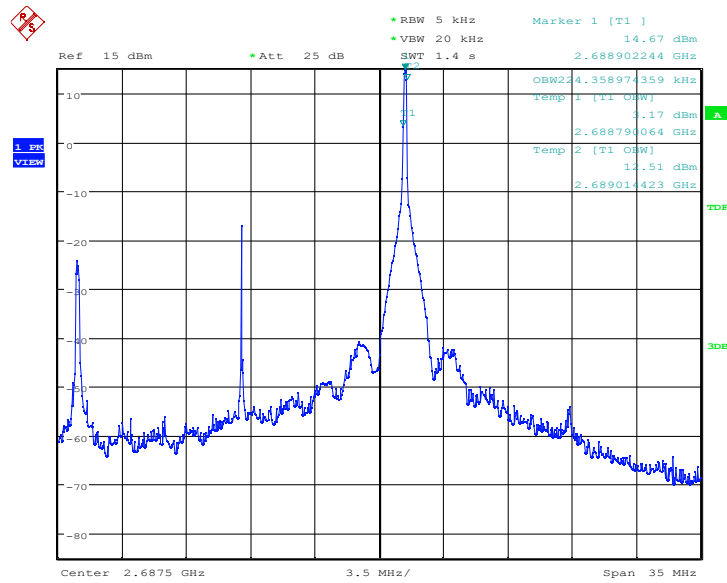


Date: 8.SEP.2022 23:52:25

OBW: 1RB-HIGH_offset

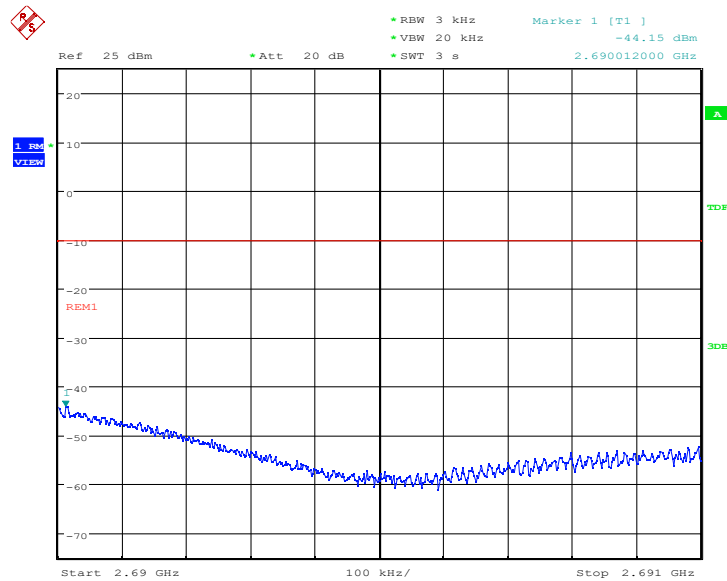
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Date: 8.SEP.2022 23:54:13

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

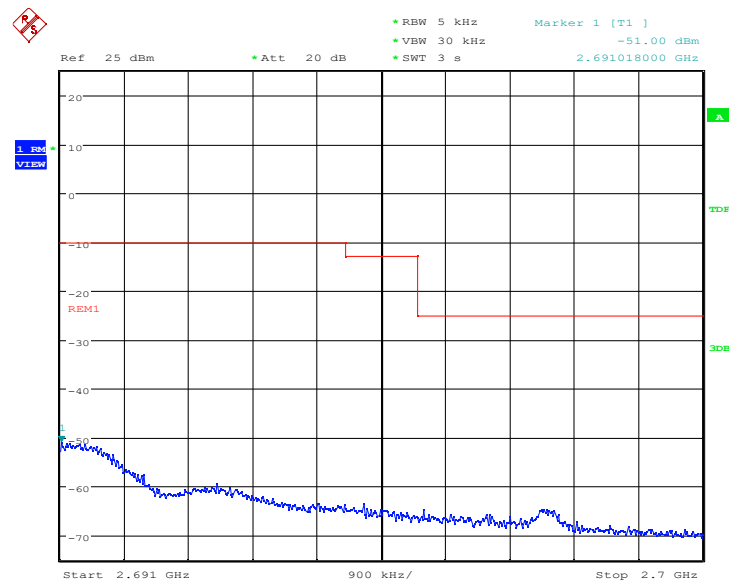


Date: 8.SEP.2022 23:54:54

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

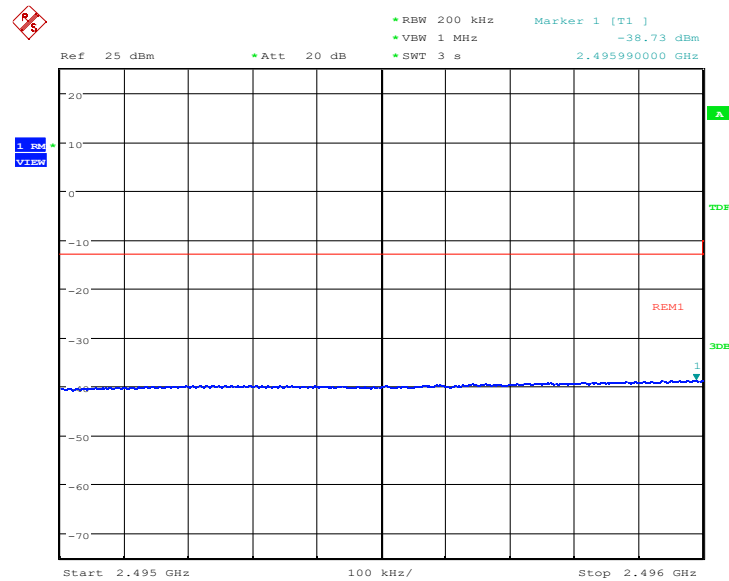
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Date: 8.SEP.2022 23:55:36

LOW BAND EDGE BLOCK-20M-100%RB

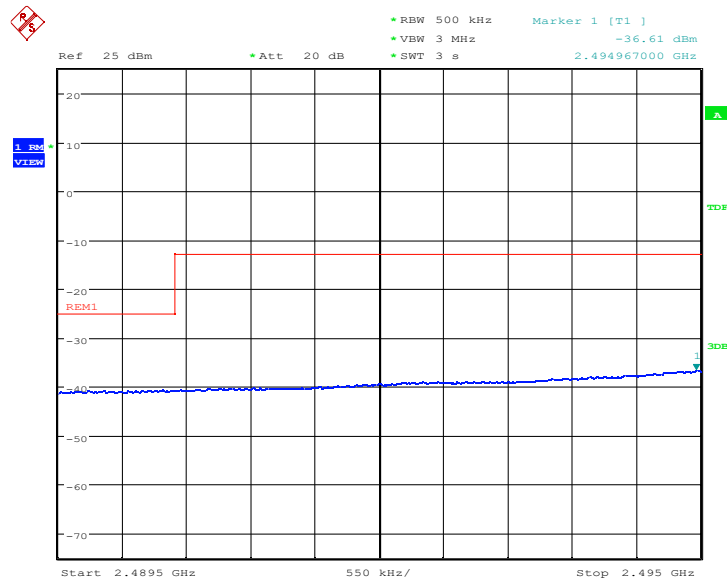


Date: 8.SEP.2022 23:53:07

LOW BAND EDGE BLOCK-20M-100%RB

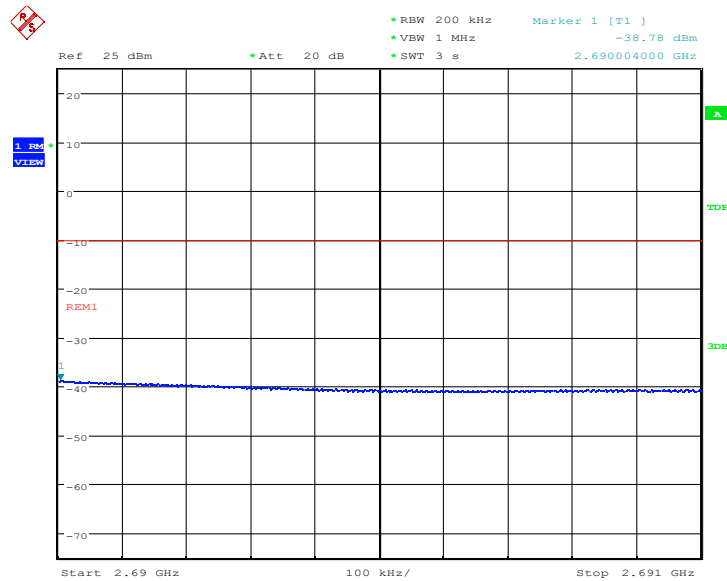
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Date: 8.SEP.2022 23:53:49

HIGH BAND EDGE BLOCK-20M-100%RB

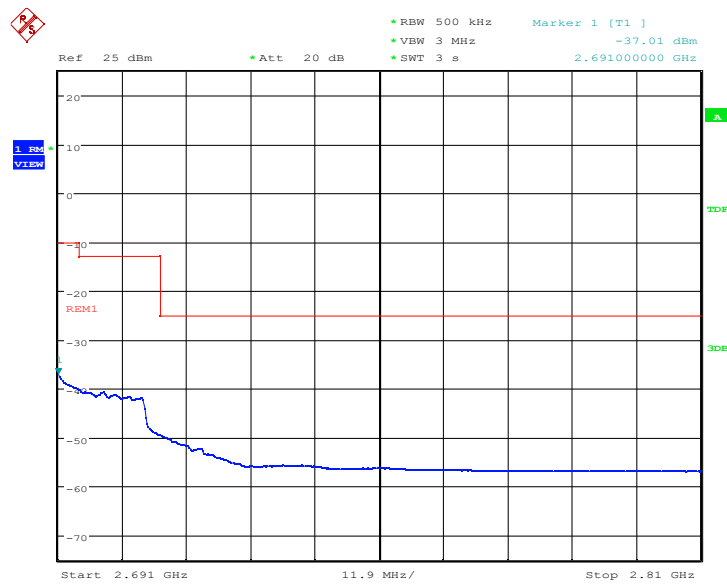


Date: 8.SEP.2022 23:56:19

HIGH BAND EDGE BLOCK-20M-100%RB

Chongqing Academy of Information and Communication Technology

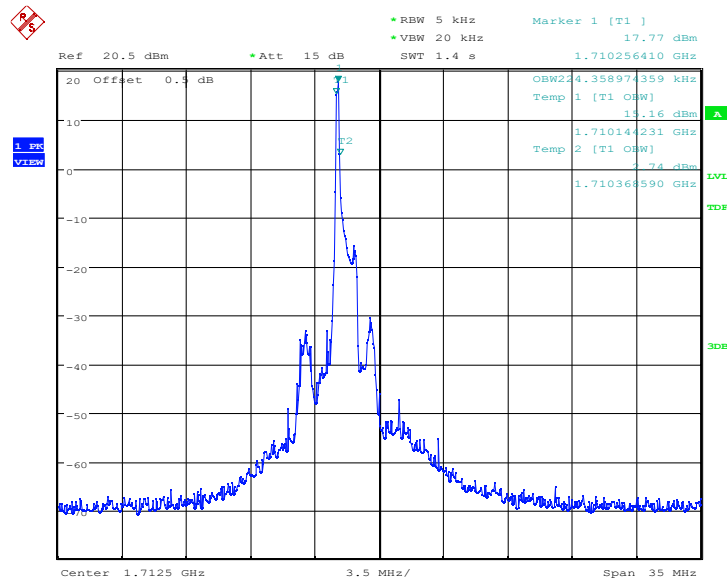
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 8.SEP.2022 23:57:00

LTE band 66-1.4MHz

OBW: 1RB-LOW_offset

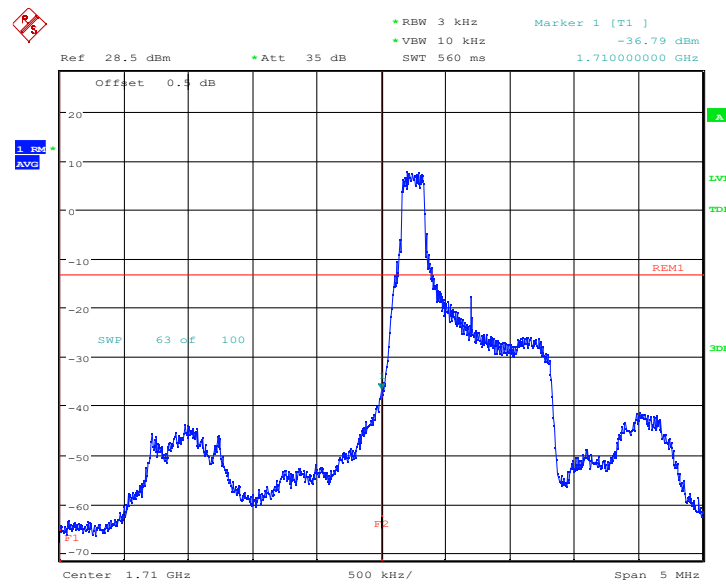


Date: 6.JUL.2022 14:11:48

LOW BAND EDGE BLOCK-1RB-LOW_offset

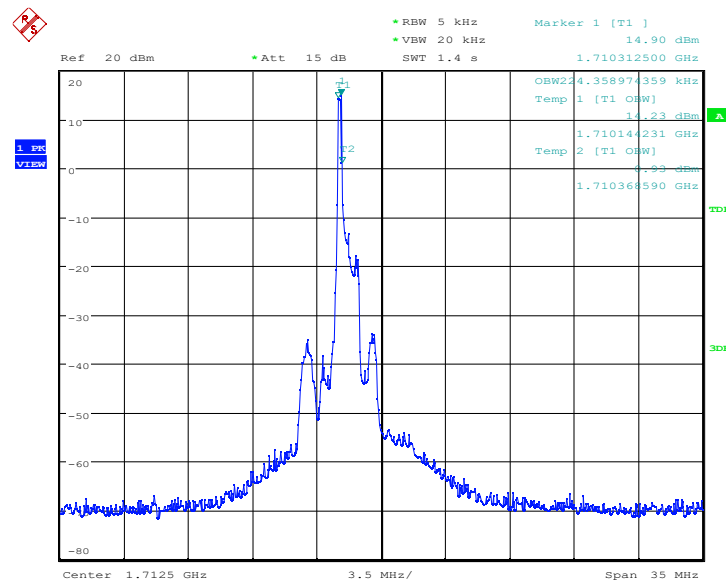
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 6.JUL.2022 14:13:25

OBW: 1RB-LOW_offset

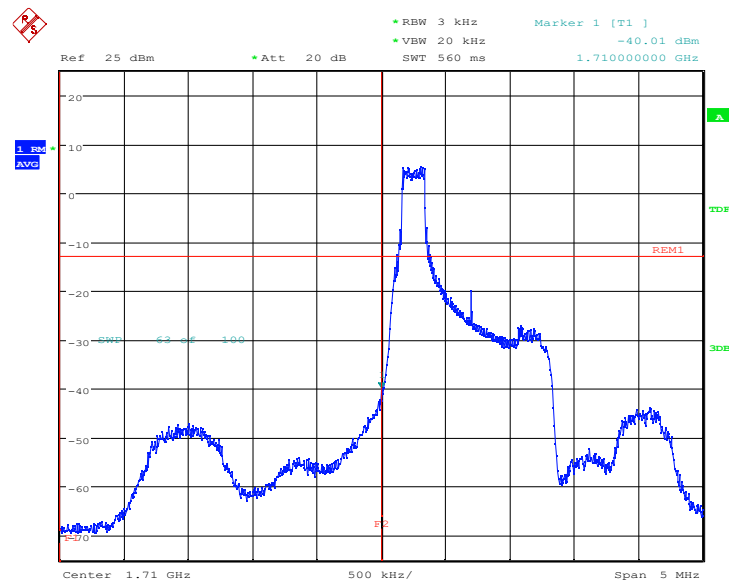


Date: 8.SEP.2022 23:57:46

LOW BAND EDGE BLOCK-1RB-LOW_offset

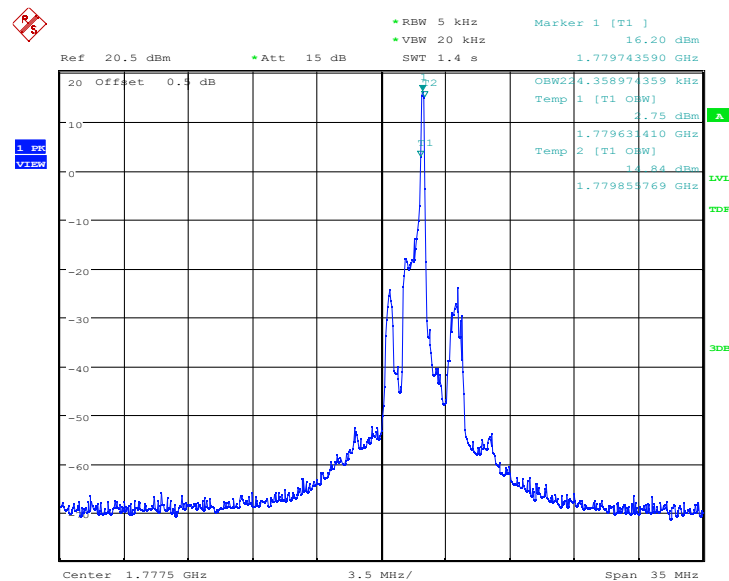
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Date: 8.SEP.2022 23:59:23

OBW: 1RB-HIGH_offset

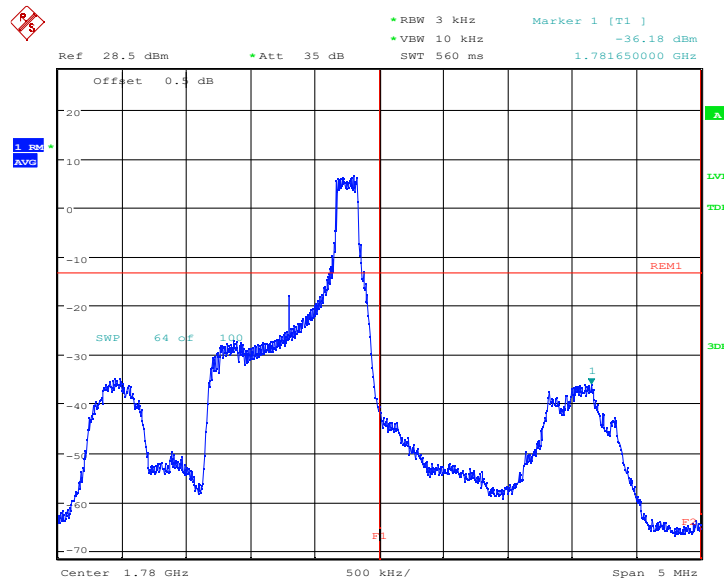


Date: 6.JUL.2022 14:13:51

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

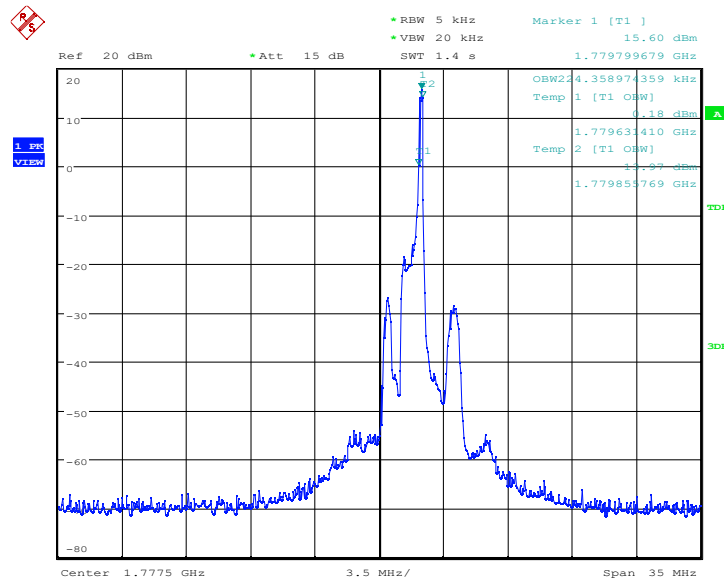
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Date: 6.JUL.2022 14:15:29

OBW: 1RB-HIGH_offset

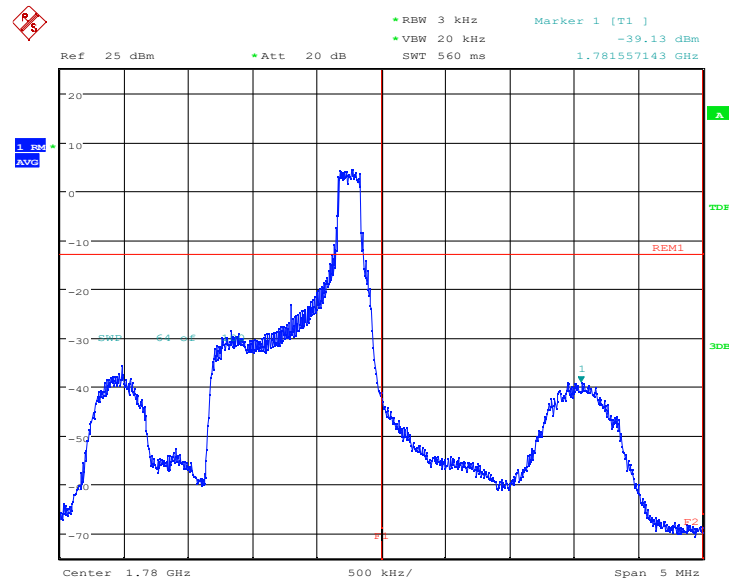


Date: 9.SEP.2022 00:00:38

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

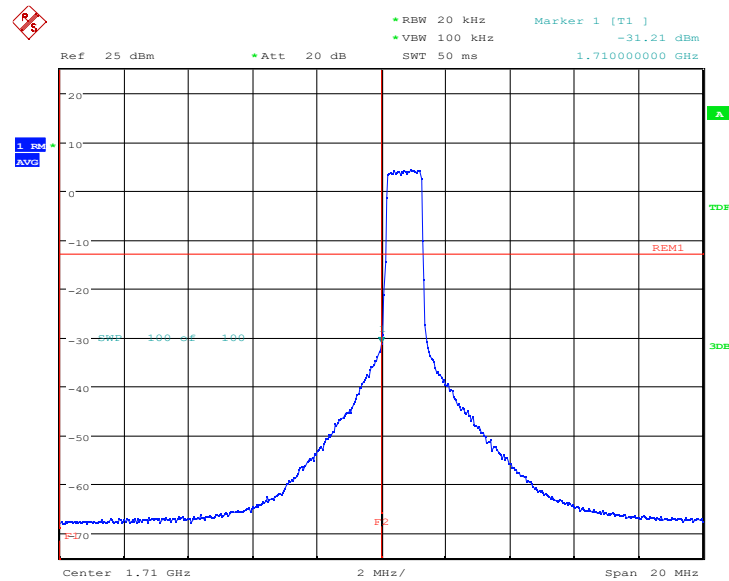
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Date: 9.SEP.2022 00:02:14

LOW BAND EDGE BLOCK-1.4M-100%RB

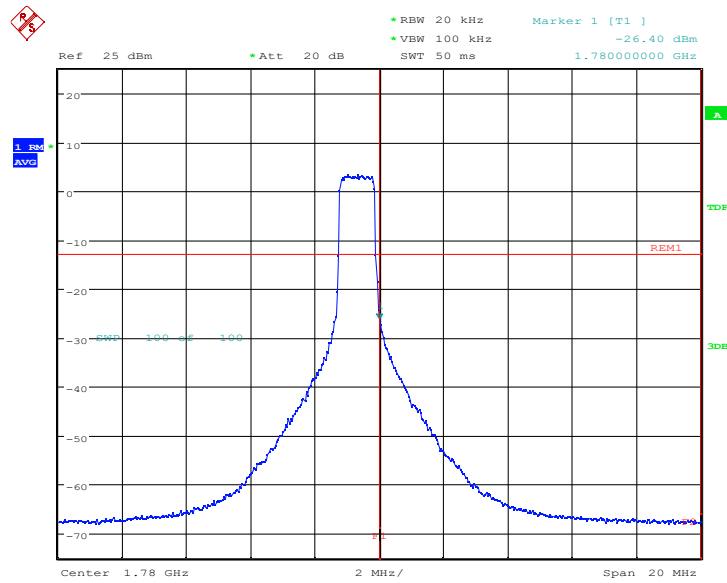


Date: 9.SEP.2022 00:00:14

HIGH BAND EDGE BLOCK-1.4M-100%RB

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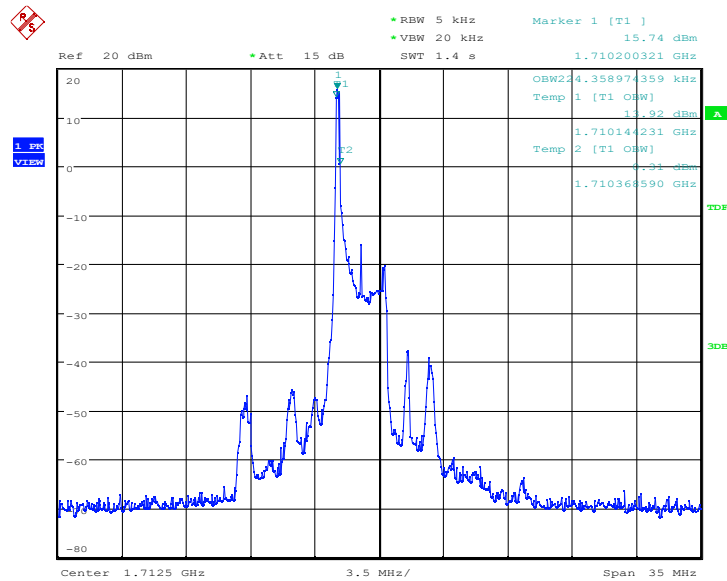
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 9.SEP.2022 00:03:03

LTE band 66-3MHz

OBW: 1RB-LOW_offset

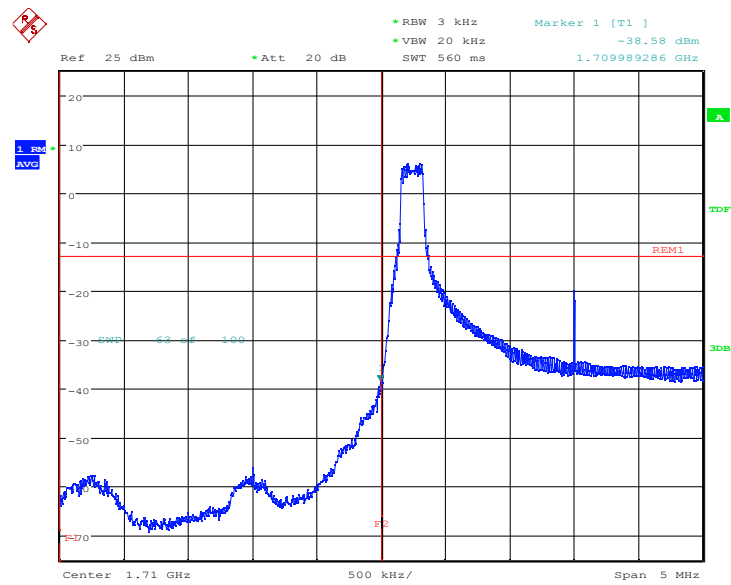


Date: 9.SEP.2022 00:03:33

LOW BAND EDGE BLOCK-1RB-LOW_offset

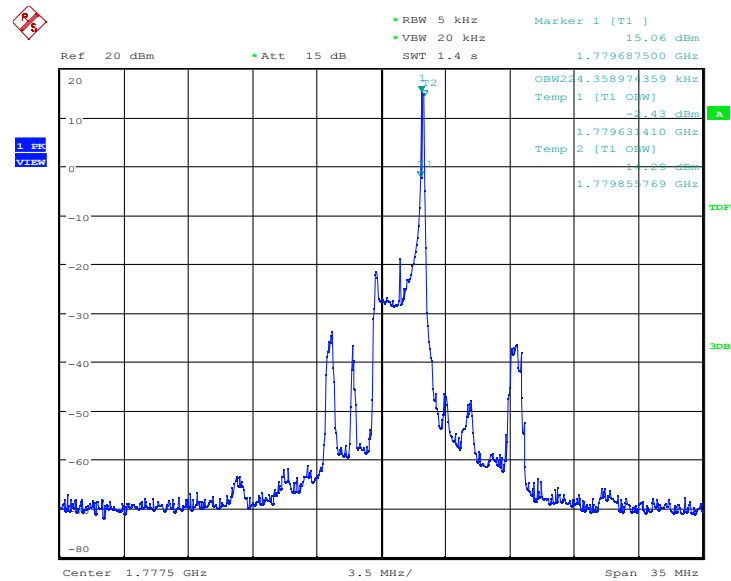
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Date: 9.SEP.2022 00:05:09

OBW: 1RB-HIGH_offset

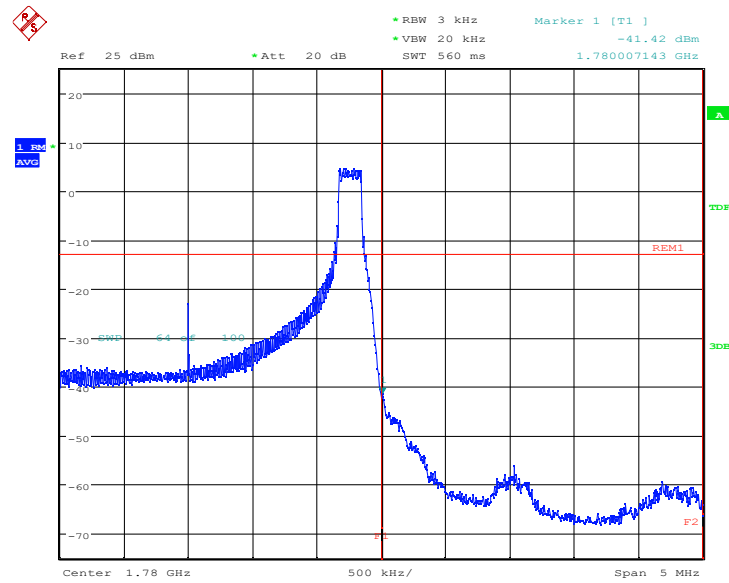


Date: 9.SEP.2022 00:06:19

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

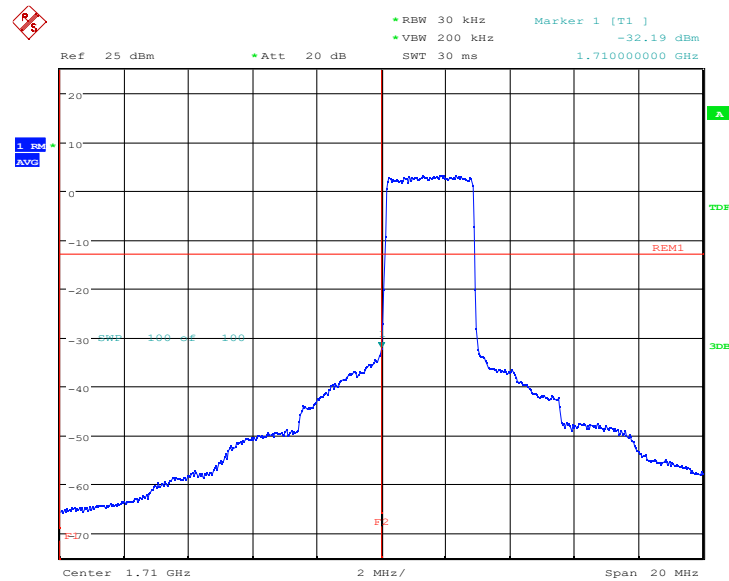
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Date: 9.SEP.2022 00:07:56

LOW BAND EDGE BLOCK-3M-100%RB



Date: 9.SEP.2022 00:05:55

HIGH BAND EDGE BLOCK-3M-100%RB

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Ref 25 dBm • Att 20 dB • RBW 30 kHz Marker 1 [T1] -31.07 dBm
 • VBW 200 kHz SWT 30 ms 1.780000000 GHz

1.500
AVG

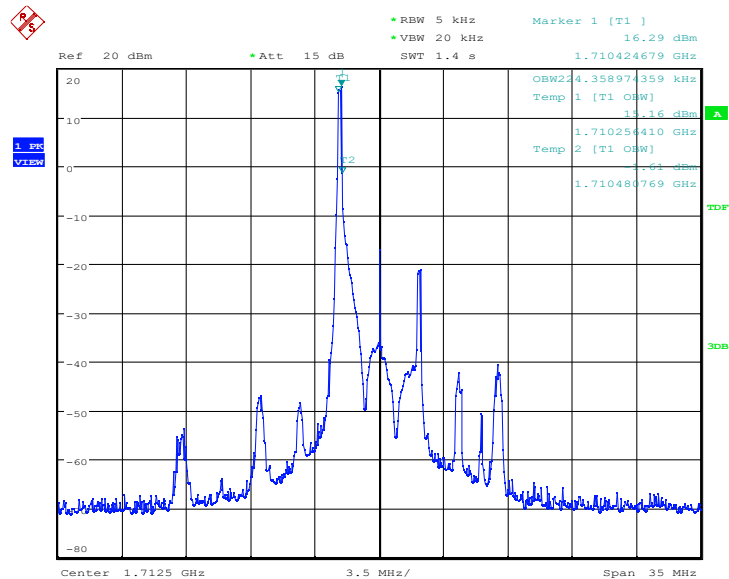
20
10
0
-10
-20
-30
-40
-50
-60
-70

Center 1.78 GHz 2 MHz/ Span 20 MHz

REM1

F2

OBW: 1RB-LOW_offset

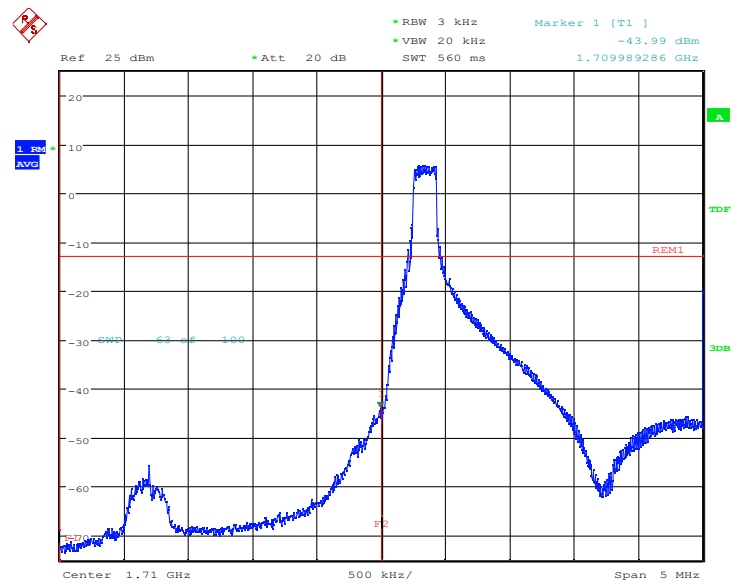


Date: 9.SEP.2022 00:09:25

LOW BAND EDGE BLOCK-1RB-LOW_offset

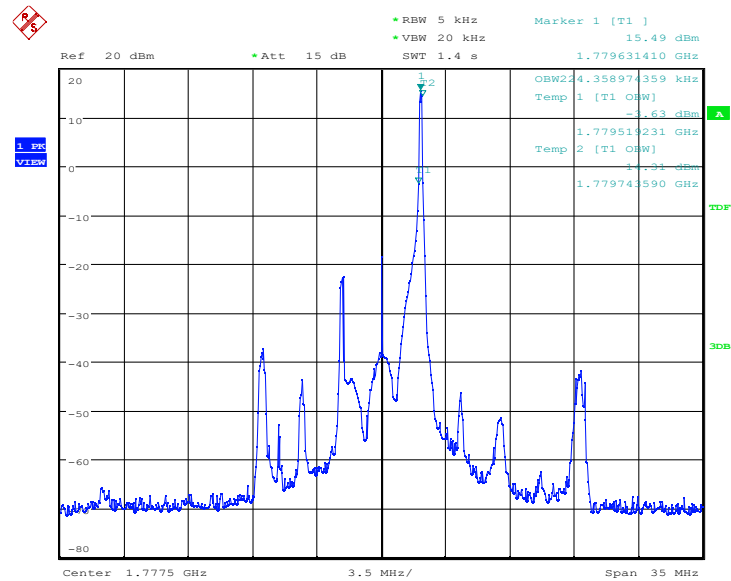
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Date: 9.SEP.2022 00:11:04

OBW: 1RB-HIGH_offset

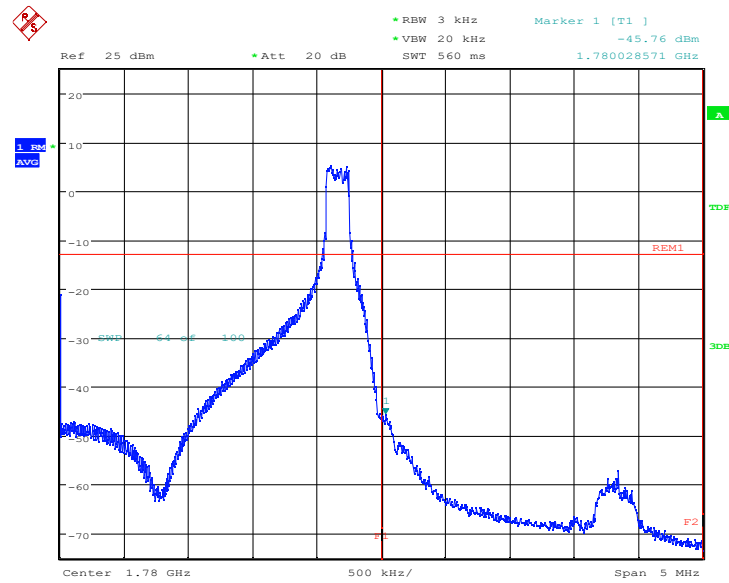


Date: 9.SEP.2022 00:12:12

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

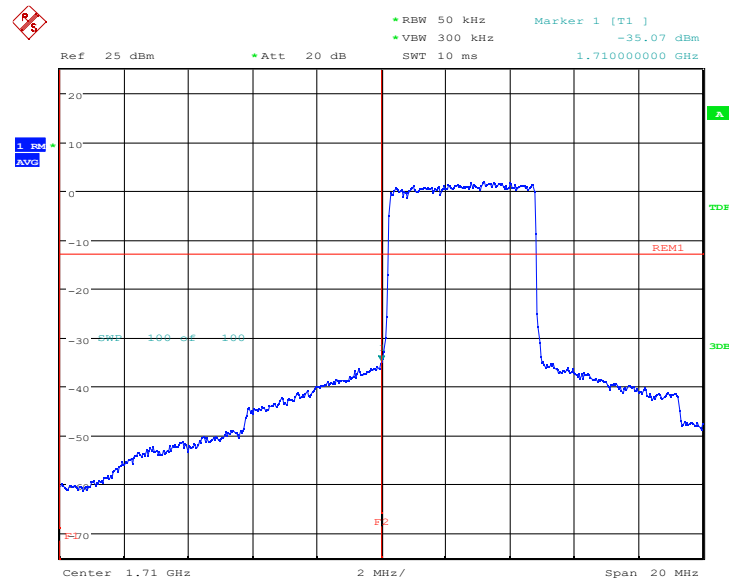
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Date: 9.SEP.2022 00:13:49

LOW BAND EDGE BLOCK-5M-100%RB

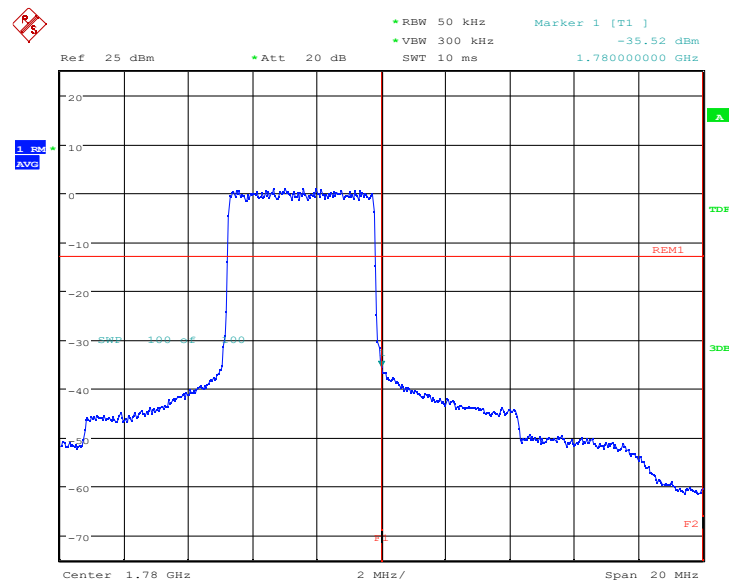


Date: 9.SEP.2022 00:11:48

HIGH BAND EDGE BLOCK-5M-100%RB

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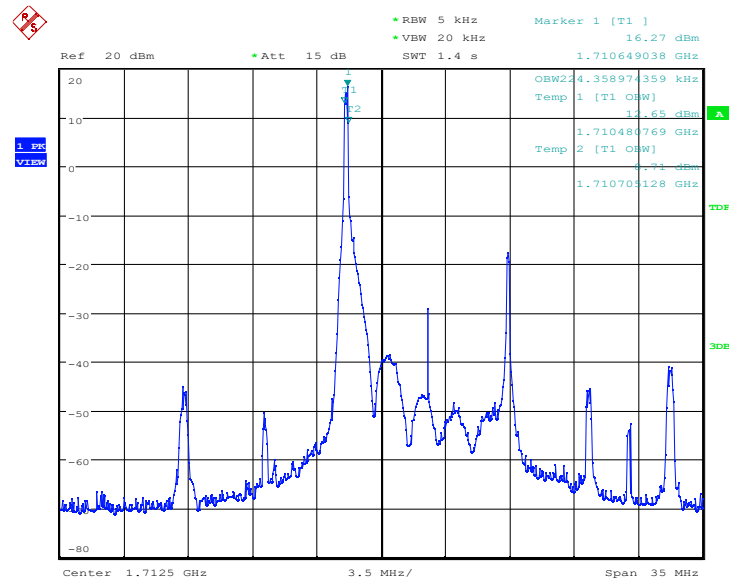
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Date: 9.SEP.2022 00:14:34

LTE band 66-10MHz

OBW: 1RB-LOW_offset

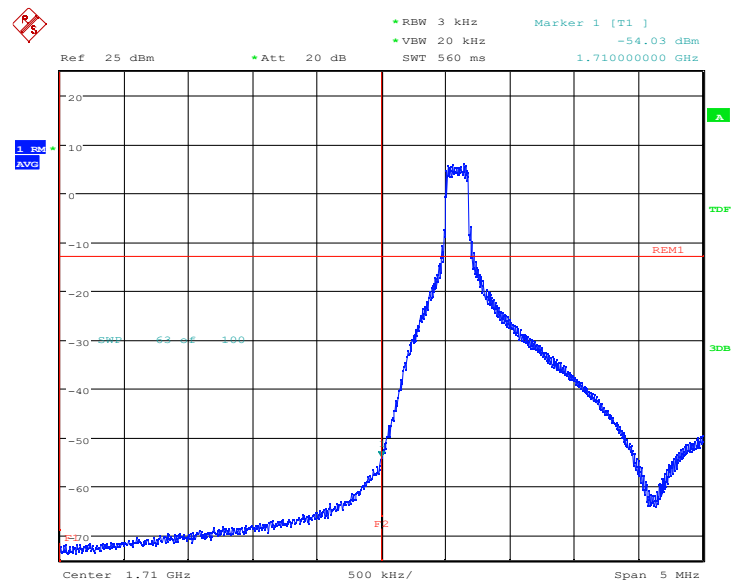


Date: 9.SEP.2022 00:15:13

LOW BAND EDGE BLOCK-1RB-LOW_offset

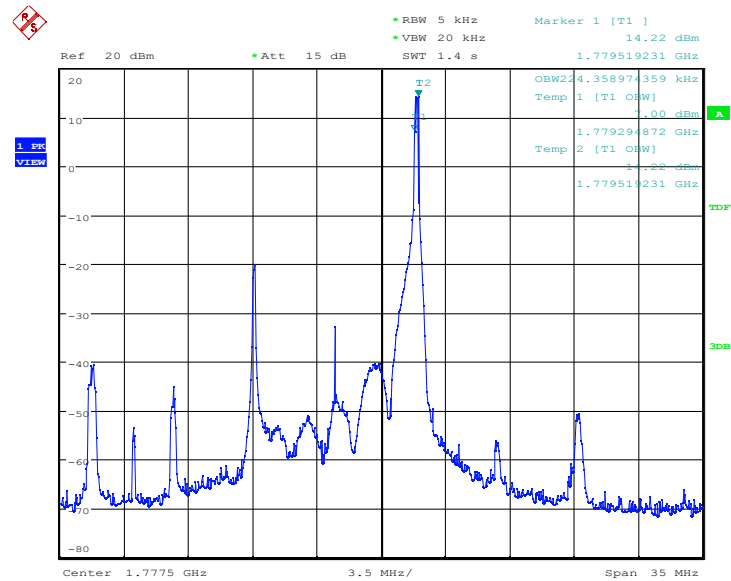
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Date: 9.SEP.2022 00:16:50

OBW: 1RB-HIGH_offset

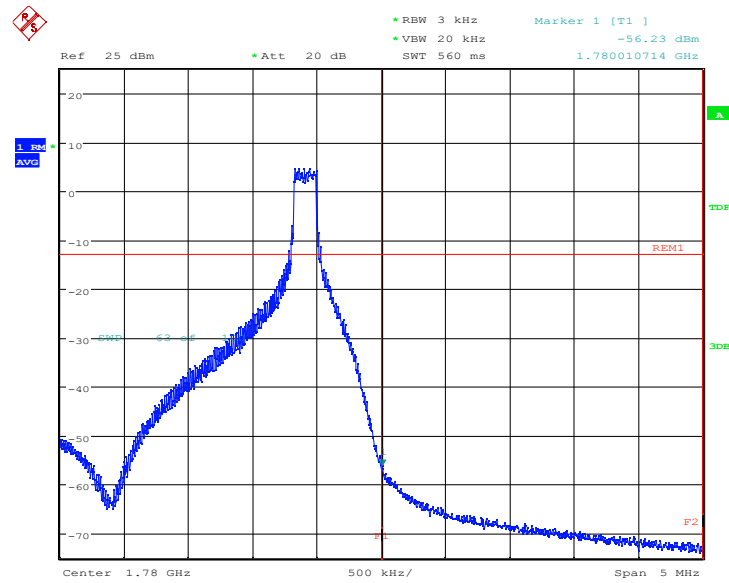


Date: 9.SEP.2022 00:17:59

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

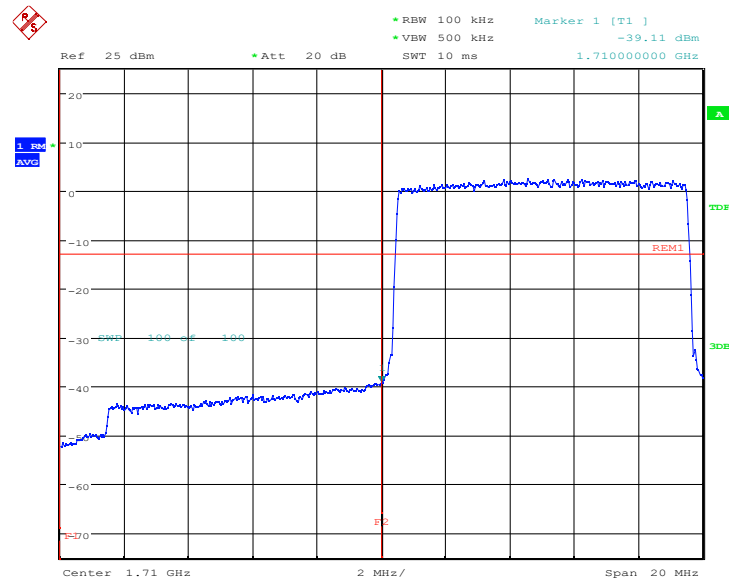
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Date: 9.SEP.2022 00:19:35

LOW BAND EDGE BLOCK-10M-100%RB

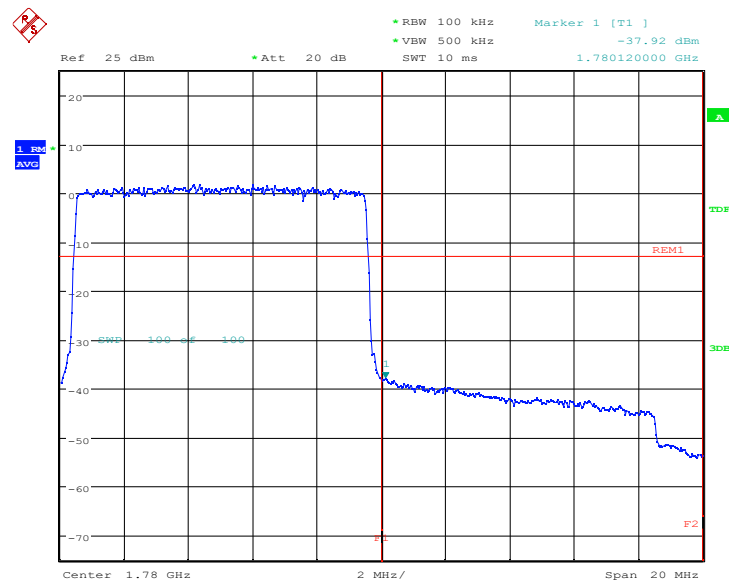


Date: 9.SEP.2022 00:17:35

HIGH BAND EDGE BLOCK-10M-100%RB

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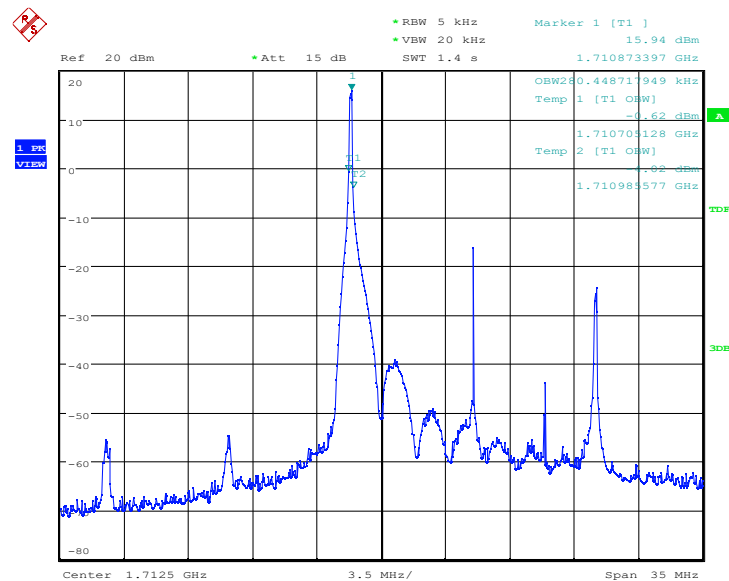
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Date: 9.SEP.2022 00:20:20

LTE band 66-15MHz

OBW: 1RB-LOW_offset

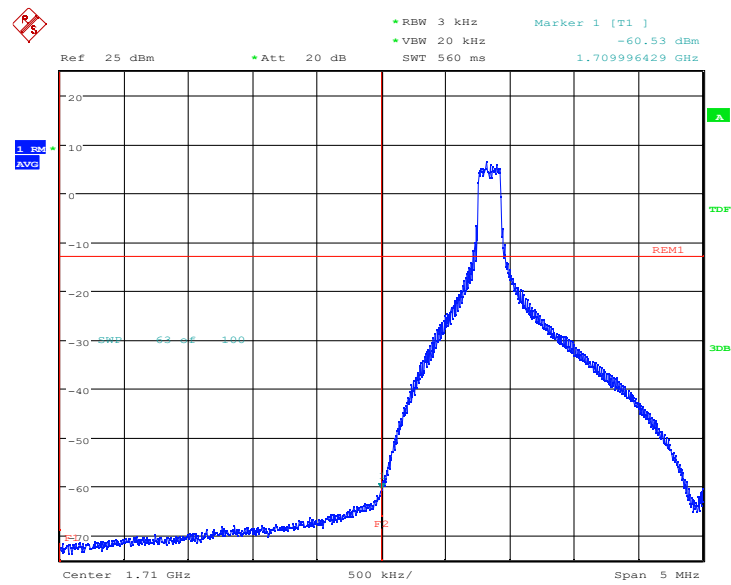


Date: 9.SEP.2022 00:21:01

LOW BAND EDGE BLOCK-1RB-LOW_offset

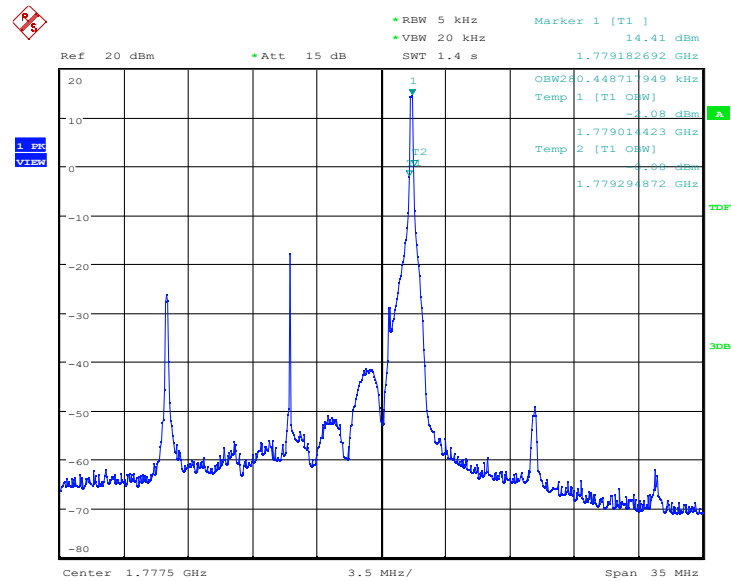
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Date: 9.SEP.2022 00:22:40

OBW: 1RB-HIGH_offset

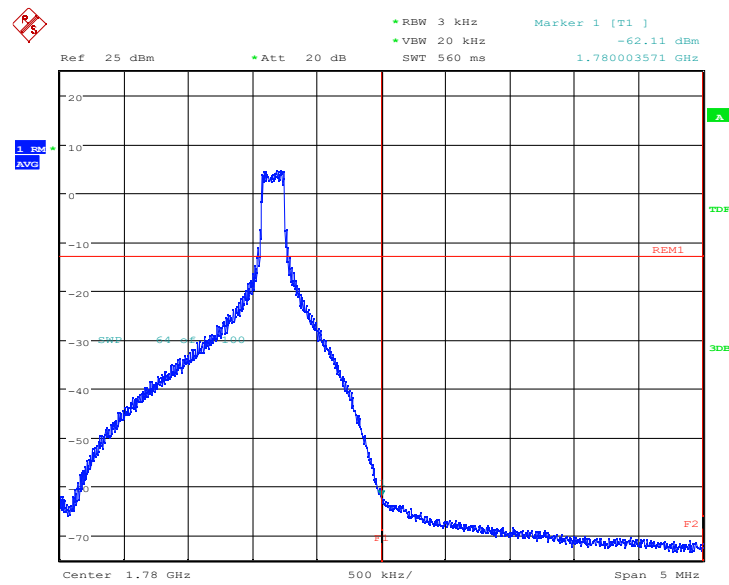


Date: 9.SEP.2022 00:23:48

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

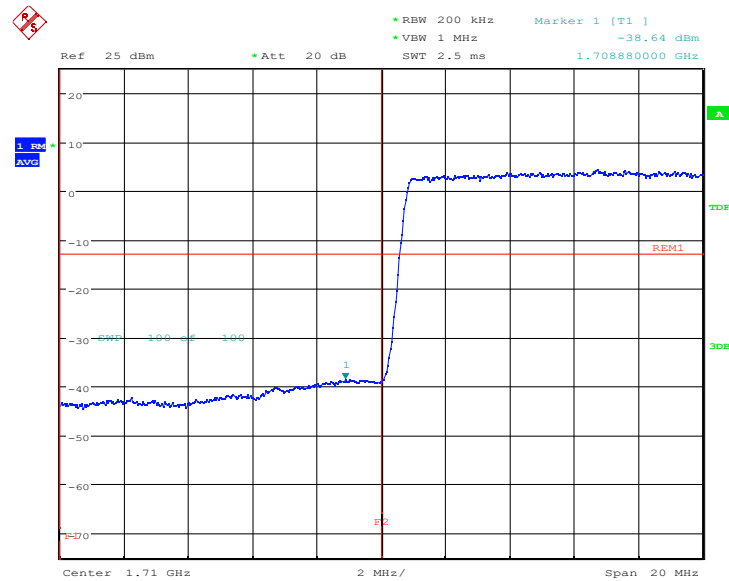
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Date: 9.SEP.2022 00:25:24

LOW BAND EDGE BLOCK-15M-100%RB

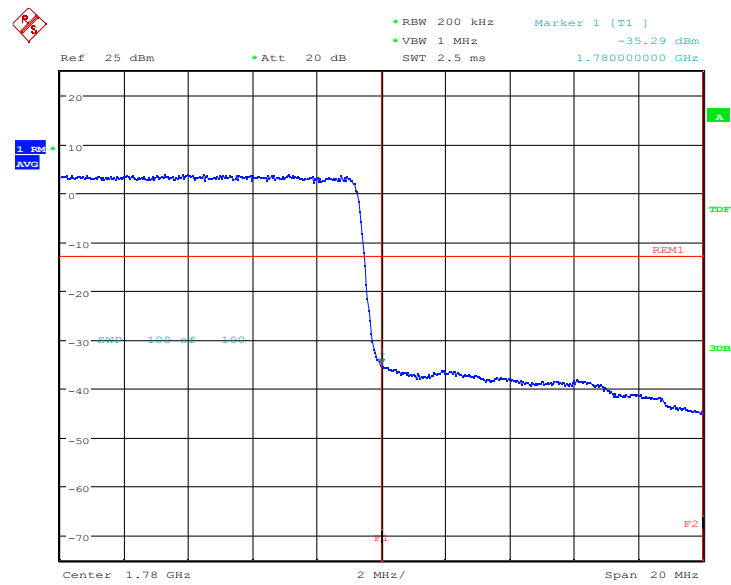


Date: 9.SEP.2022 00:23:23

HIGH BAND EDGE BLOCK-15M-100%RB

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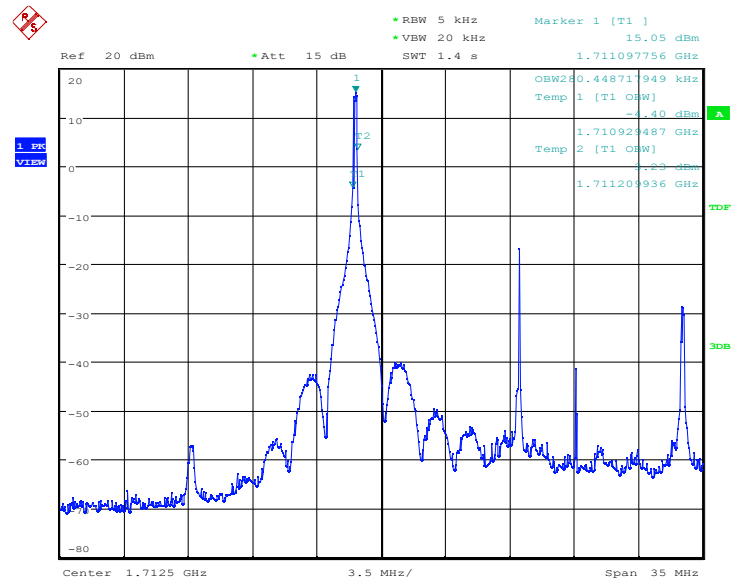
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Date: 9.SEP.2022 00:26:08

LTE band 66-20MHz

OBW: 1RB-LOW_offset

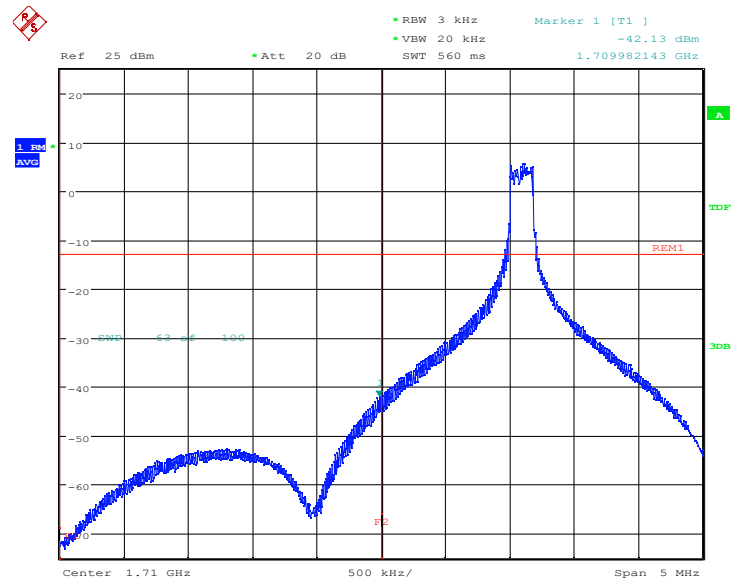


Date: 9.SEP.2022 00:26:50

LOW BAND EDGE BLOCK-1RB-LOW_offset

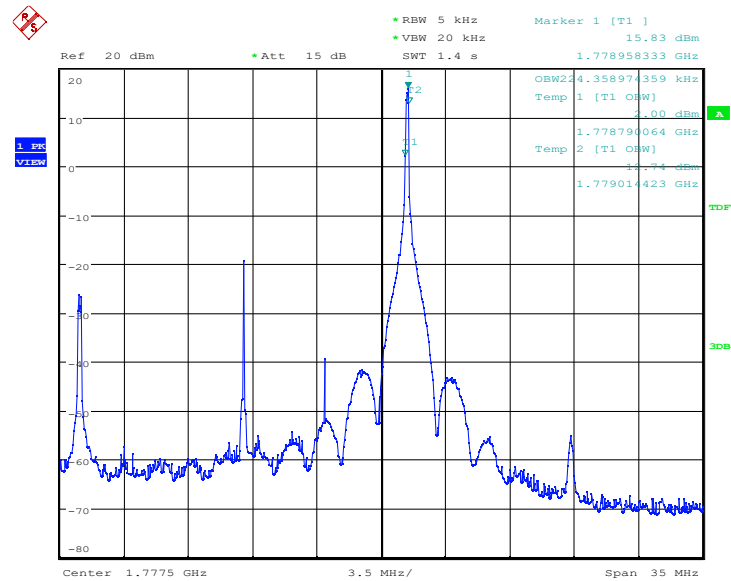
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.SEP.2022 00:28:27

OBW: 1RB-HIGH_offset

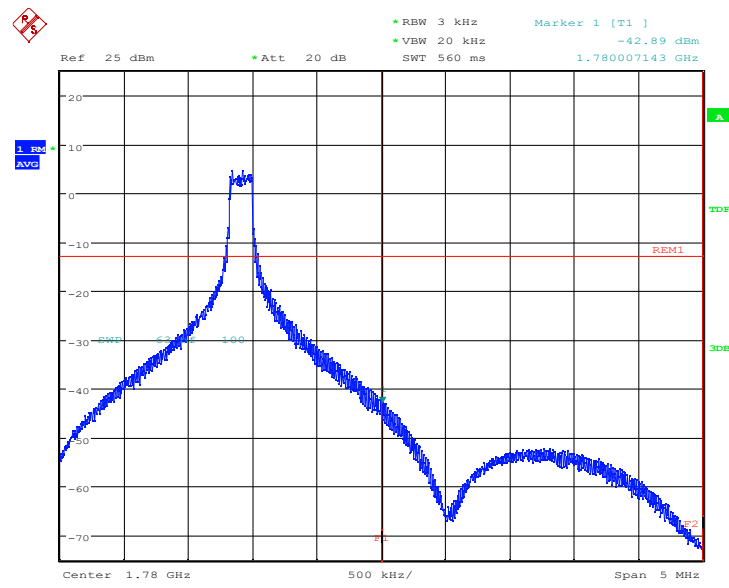


Date: 9.SEP.2022 00:29:34

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

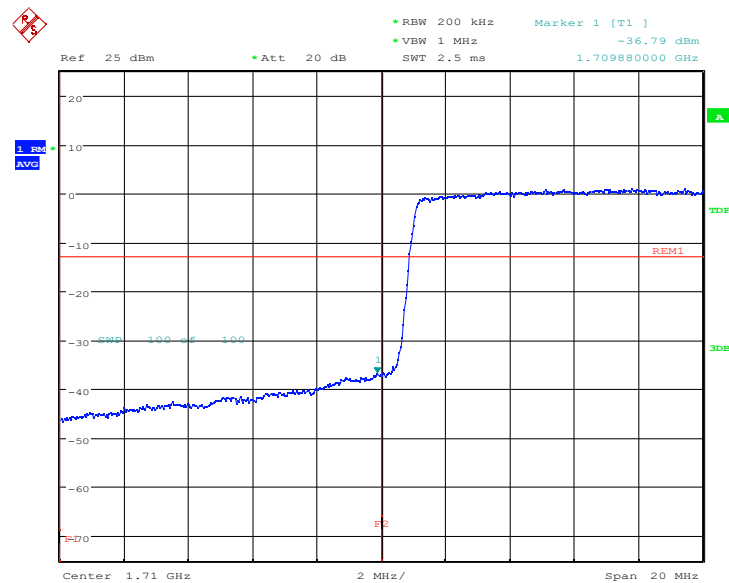
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 9.SEP.2022 00:31:11

LOW BAND EDGE BLOCK-20M-100%RB

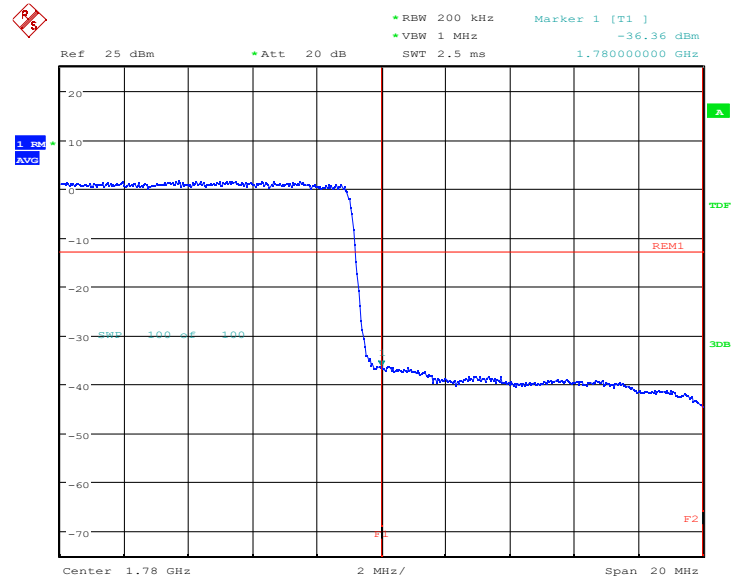


Date: 9.SEP.2022 00:29:10

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HIGH BAND EDGE BLOCK-20M-100%RB



Date: 9.SEP.2022 00:31:55

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6.8. Frequency Stability

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	862733060028209
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit	
Frequency deviation [ppm]	±2.5

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.54 Hz (k=2)

Test Method

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as FL and FH respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.

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6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

6.8.1 Frequency Stability over Temperature Variation Results

LTE band 2, 20MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1880	1.32	0.0007
50			1.60	0.0009
40			2.70	0.0014
30			1.83	0.0010
10			0.96	0.0005
0			2.66	0.0014
-10			2.56	0.0014
-20			0.22	0.0001
-30			4.32	0.0023

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	1880	10.16	0.0054
4.2			11.13	0.0059

LTE band 4, 20MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1732.5	-1.74	-0.0010
50			-3.92	-0.0023
40			-7.01	-0.0040
30			-2.66	-0.0015
10			-8.96	-0.0052
0			-4.42	-0.0026
-10			-2.75	-0.0016

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-20			-5.62	-0.0032
-30			-1.97	-0.0011

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	1732.5	-5.31	-0.0031
4.2			-4.51	-0.0026

LTE band 5, 10MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	836.5	6.32	0.0076
50			7.41	0.0089
40			-1.55	-0.0019
30			-4.76	-0.0057
10			-10.90	-0.0130
0			12.33	0.0147
-10			10.84	0.0130
-20			8.77	0.0105
-30			4.81	0.0058

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	836.5	11.56	0.0138
4.2			13.12	0.0157

LTE band 41, 20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	2593	4.25	0.0016
50			0.56	0.0002
40			-1.29	-0.0005
30			6.24	0.0024
10			-11.30	-0.0044
0			5.74	0.0022
-10			6.07	0.0023
-20			1.46	0.0006
-30			3.25	0.0013

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	2593	-1.45	-0.0006
4.2			3.32	0.0013

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LTE band 66, 20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1745	1.38	0.0008
50			-1.30	-0.0007
40			1.44	0.0008
30			1.46	0.0008
10			2.09	0.0012
0			-2.06	-0.0012
-10			-3.26	-0.0019
-20			1.09	0.0006
-30			-1.40	-0.0008

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.4	20	1745	1.77	0.0010
4.2			0.59	0.0003

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6.9. Peak to Average Ratio

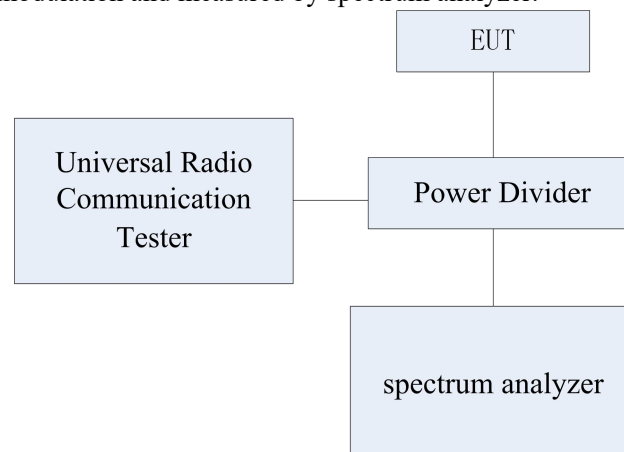
Specifications:	FCC Part 24.232, 27.50
DUT Serial Number:	862733060028209
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.62 dB (k=2)

Test Method

The transmitter output was connected to a CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each Band on the Spectrum Analyzer.

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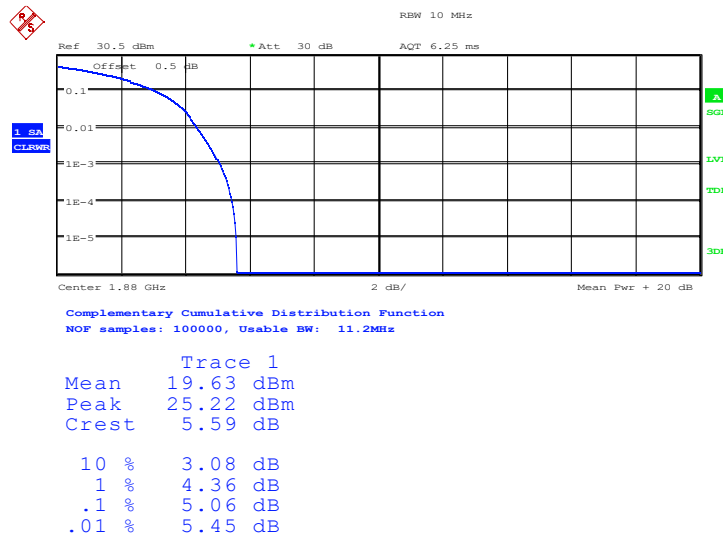
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6.9.1 Peak to Average Ratio Results

LTE Band 2, 20MHz

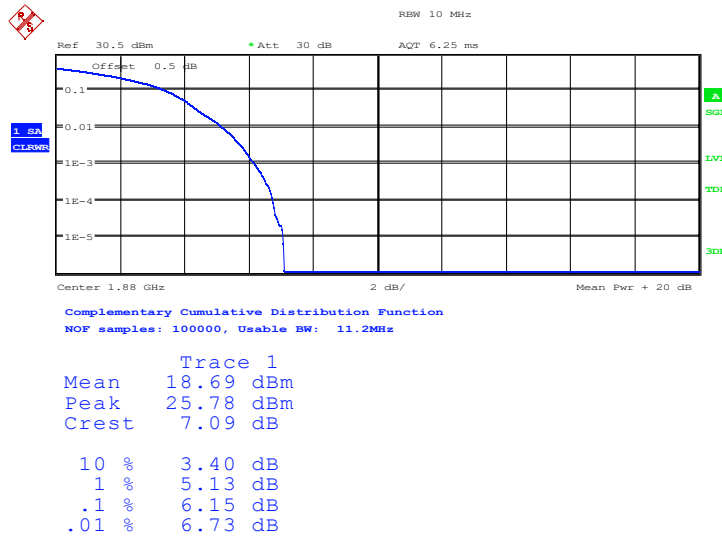
Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1880	100%,0	5.06	6.15

LTE band 2 , 20MHz Bandwidth,QPSK



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LTE band 2 , 20MHz Bandwidth,16QAM



Date: 6.JUL.2022 13:24:29

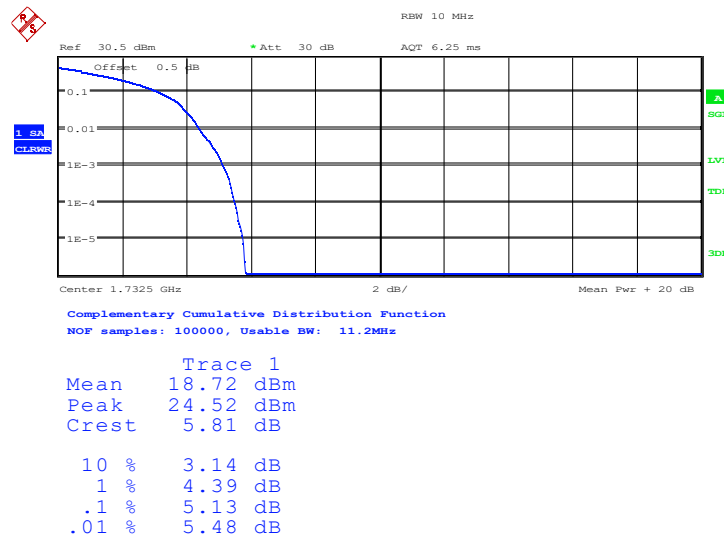
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LTE Band 4, 20MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1732.5	100%,0	5.13	6.41

LTE band 4 , 20MHz Bandwidth,QPSK

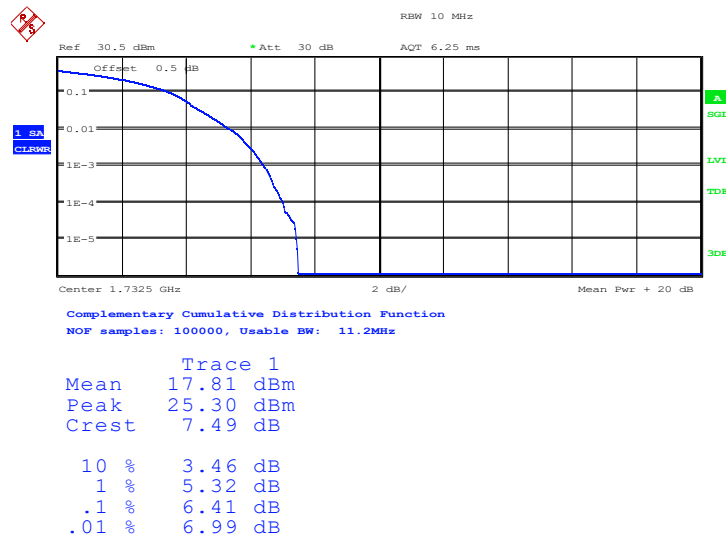


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LTE band 4 , 20MHz Bandwidth,16QAM



Date: 6.JUL.2022 13:25:11

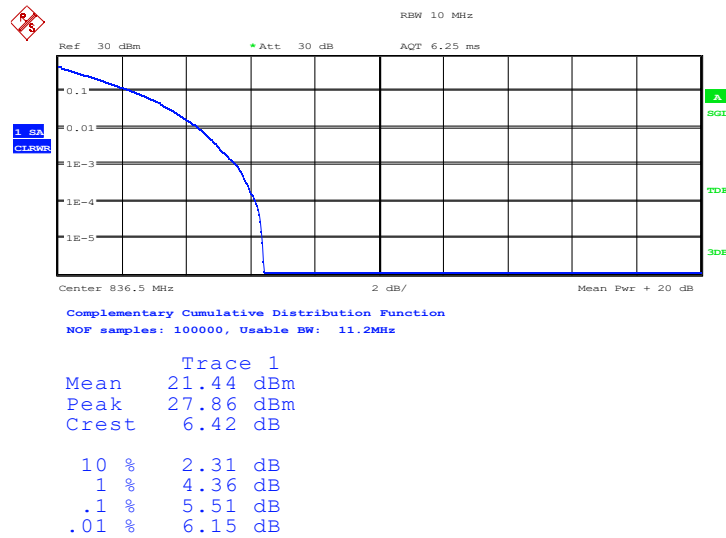
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LTE Band 5, 10MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
836.5	100%,0	5.51	6.31

LTE band 5 , 10MHz Bandwidth,QPSK

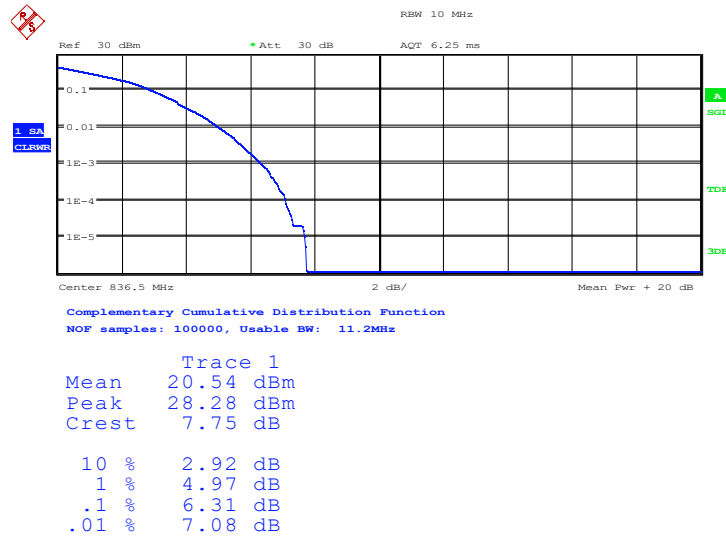


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LTE band 5 , 10MHz Bandwidth,16QAM



Date: 6.JUL.2022 13:26:14

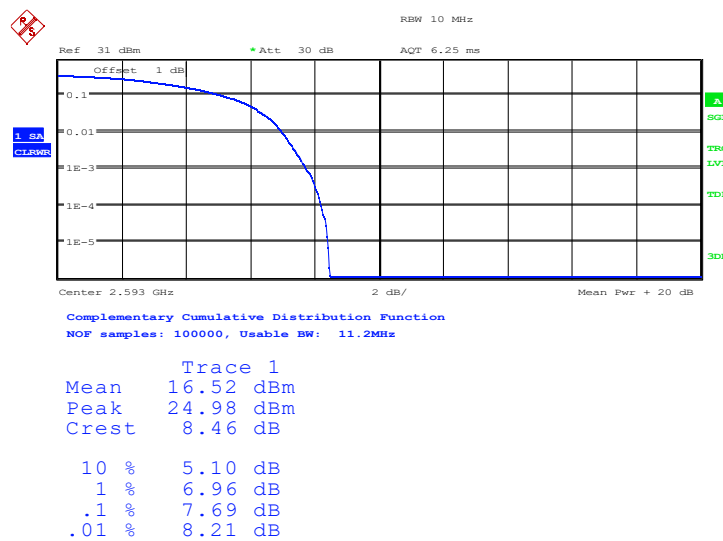
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LTE Band 41, 20MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
2593	100%,0	7.69	9.01

LTE band 41 , 20MHz Bandwidth,QPSK

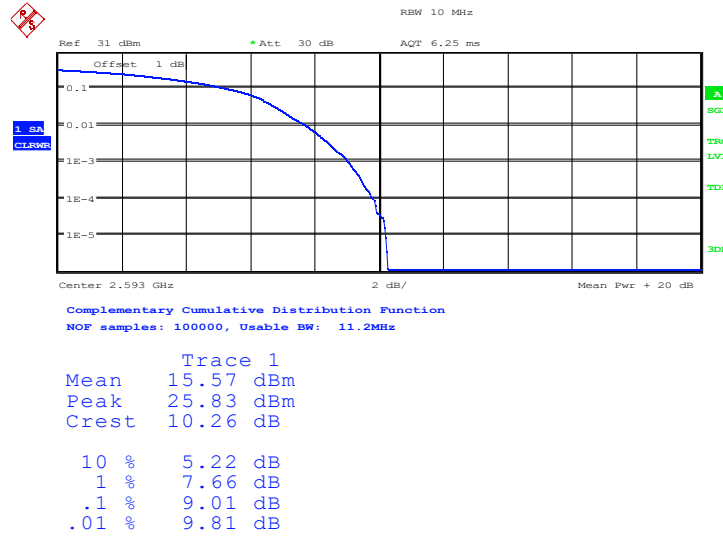


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LTE band 41 , 20MHz Bandwidth,16QAM



Date: 6.JUL.2022 13:27:02

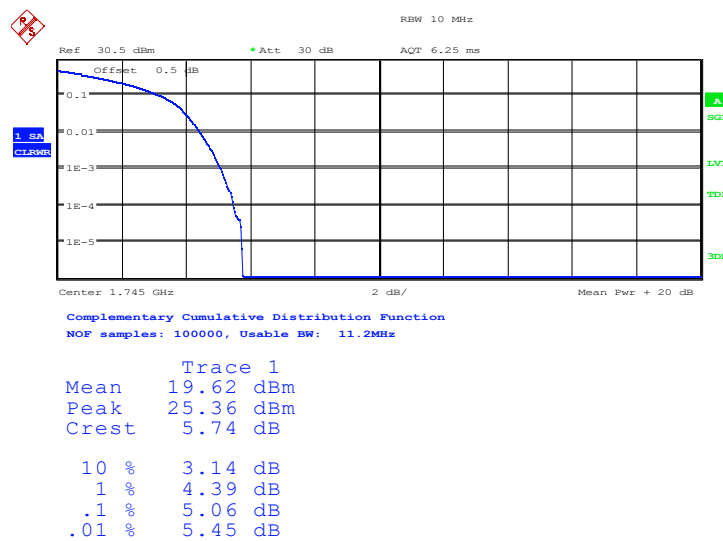
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LTE Band 66, 20MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1745	100%,0	5.06	6.38

LTE band 66 , 20MHz Bandwidth,QPSK



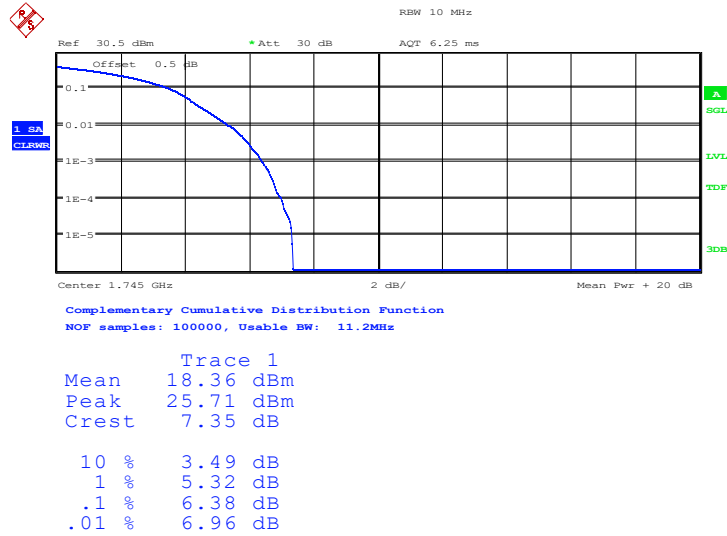
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LTE band 66 , 20MHz Bandwidth,16QAM



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Report No.: I22W00053-LTE-RF-Rev3

Annex A EUT Photos

See the document "I22W00053-External Photos".

See the document "I22W00053-Internal Photos".

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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

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