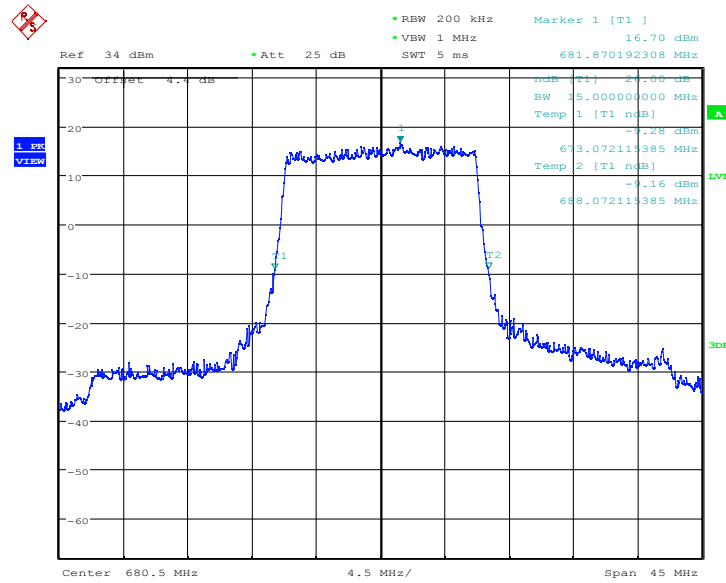
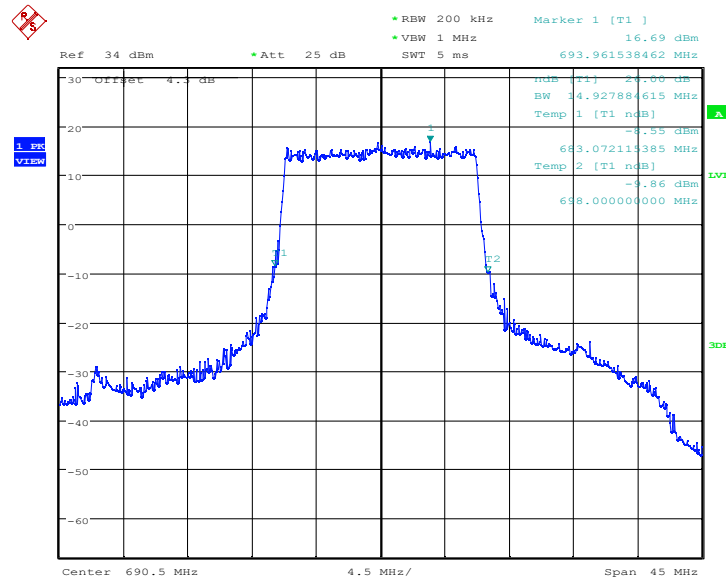




Date: 8.MAY.2024 16:20:03

LTE band 71 , 15MHz Bandwidth,HIGH,QPSK (-26dBc BW)



Date: 8.MAY.2024 16:20:33

LTE band 71,20MHz(-26dBc)

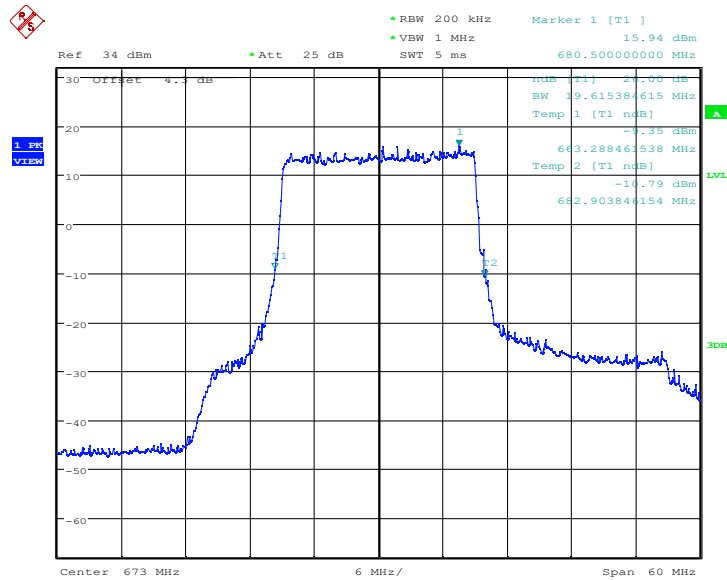
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK

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673	19.615
683	19.808
688	19.712

LTE band 71 , 20MHz Bandwidth,LOW,QPSK (-26dBc BW)

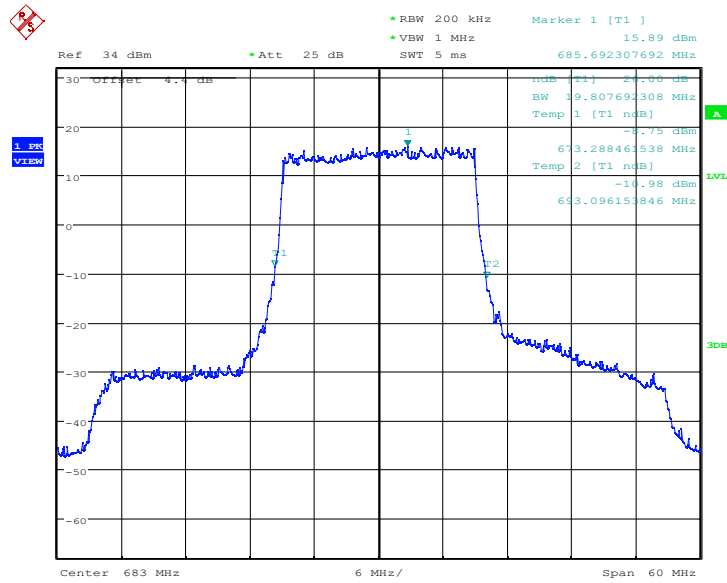


Date: 8.MAY.2024 16:21:30

LTE band 71 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)

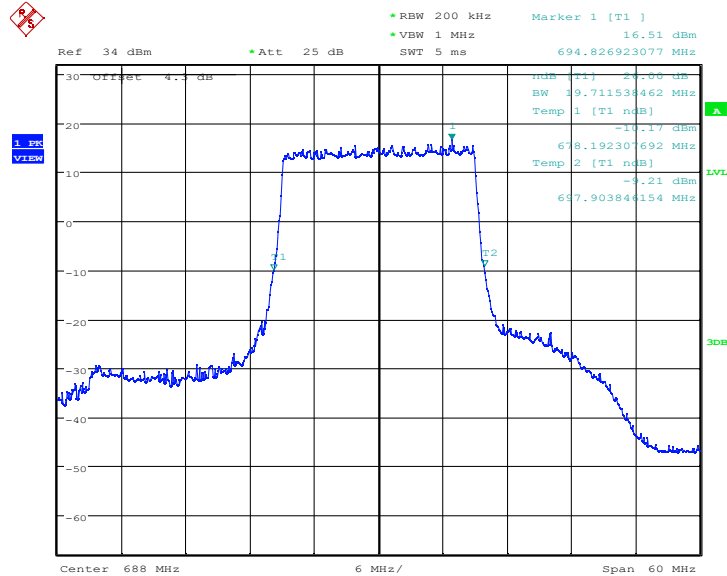
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Date: 8.MAY.2024 16:22:02

LTE band 71 , 20MHz Bandwidth,HIGH,QPSK (-26dBc BW)



Date: 8.MAY.2024 16:22:36

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6.5. Conducted spurious emissions

Specifications:	FCC Part 2.1051,24.238,2.1053,22.917, 27.53
DUT Serial Number:	IMEI:865357069912010
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917(a):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):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 27.53(c)(f):For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the 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, in accordance with the following:

- (1) On any frequency outside the 746–758 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;
- (2) 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;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4)
- (f) For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

According to Part 27.53(h):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,

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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.

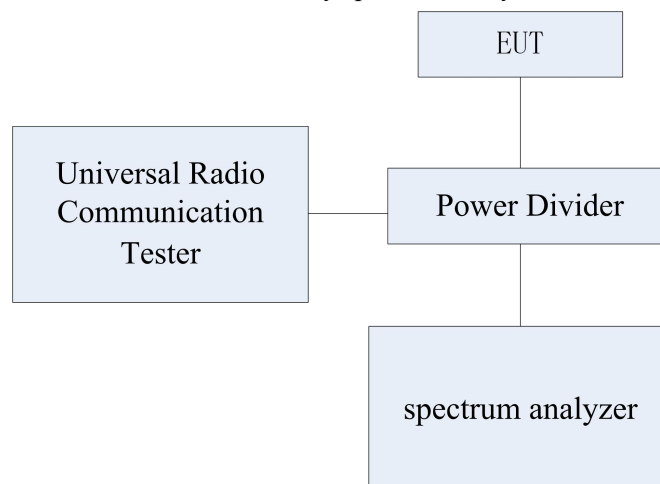
According to Part 27.53(g): For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ 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.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.74 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:

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution. The spectrum analyzer was set to Maximum hold mode to ensure that the worst-case emissions were captured.

Note: The following test results are the worst case selected in each bandwidth of each frequency band..

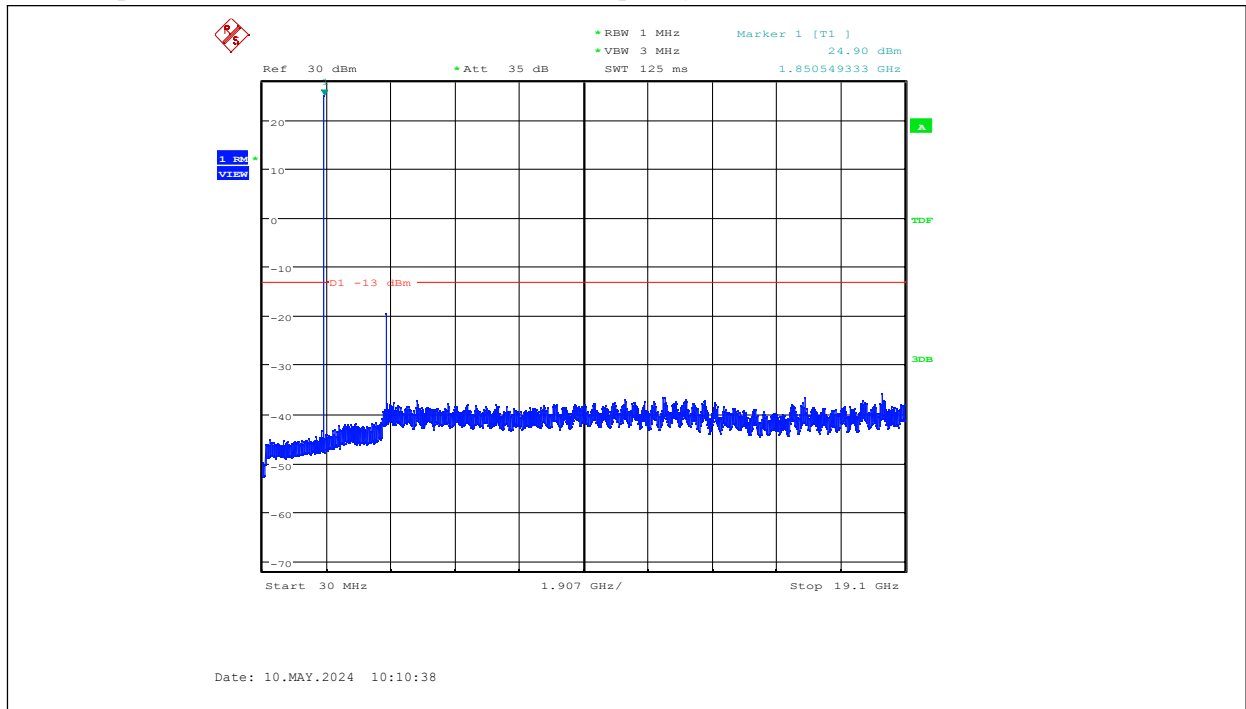
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6.5.1 Conducted Spurious Emission Results

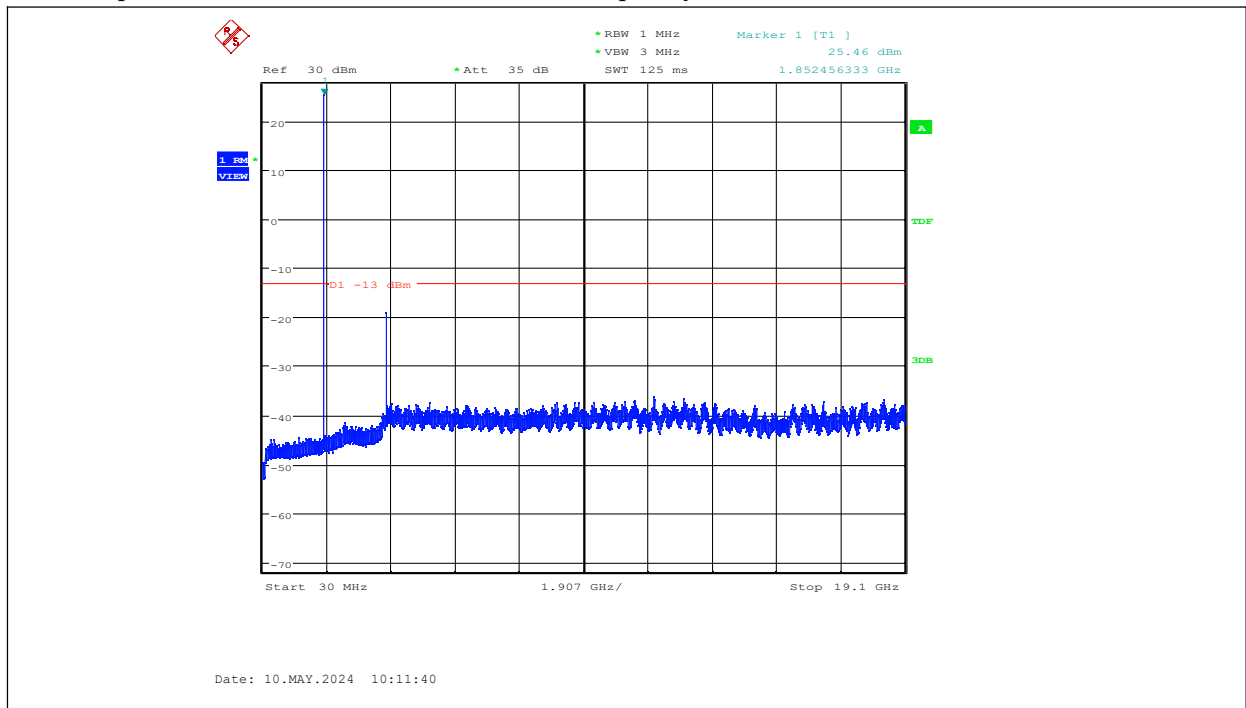
LTE band 2-1.4MHz-QPSK-HIGH-50%RB

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



LTE band 2-3MHz-QPSK-LOW-50%RB

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

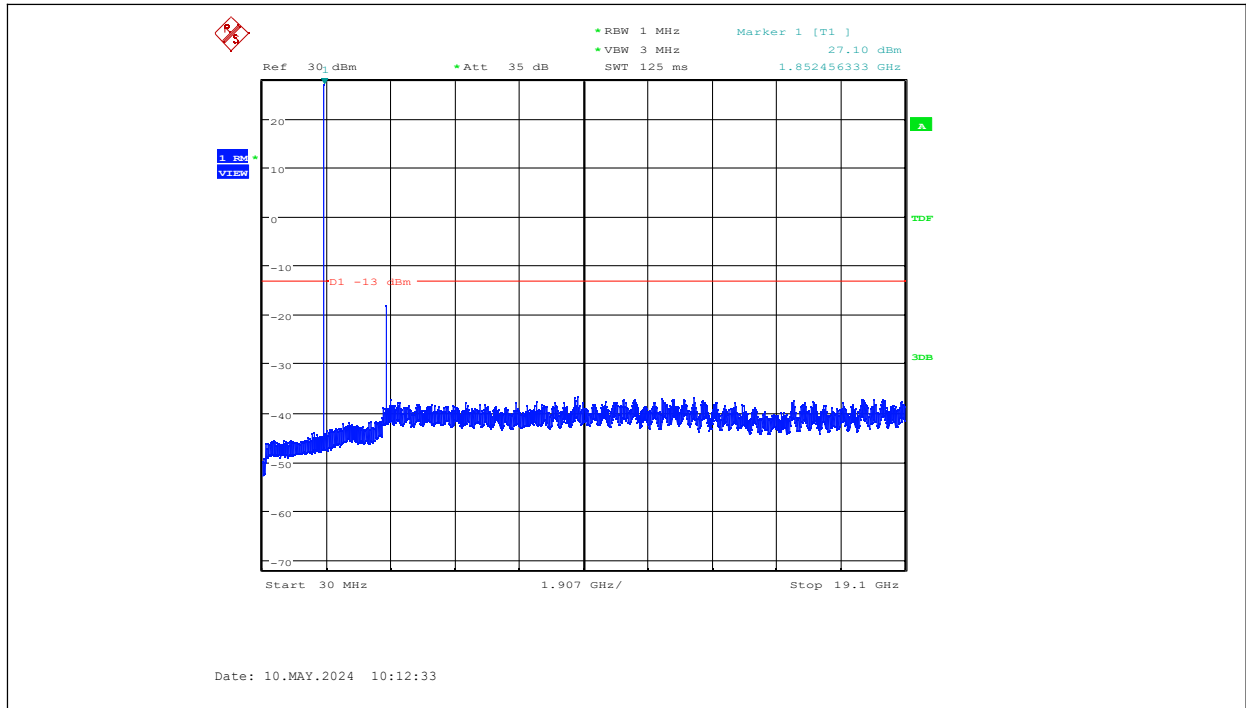


LTE band 2-5MHz-QPSK-LOW-1RB

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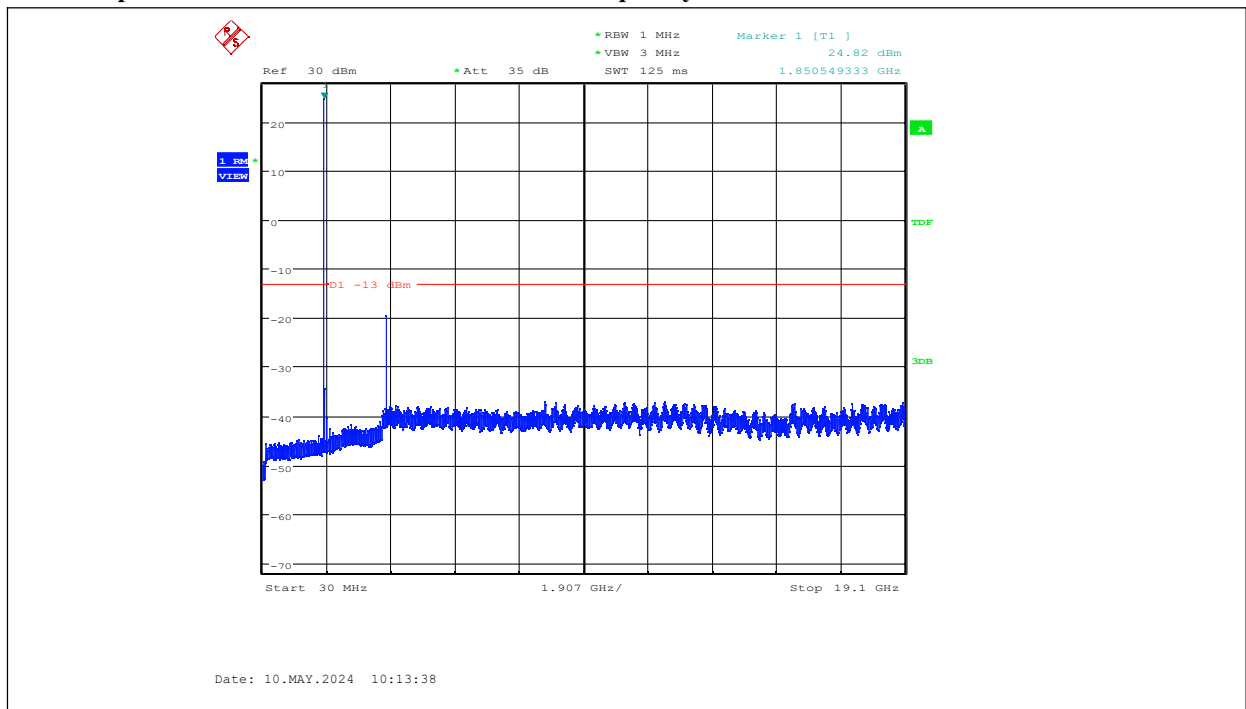
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NOTE: peak above the limit line is the carrier frequency.



LTE band 2-10MHz-QPSK-LOW-1RB

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

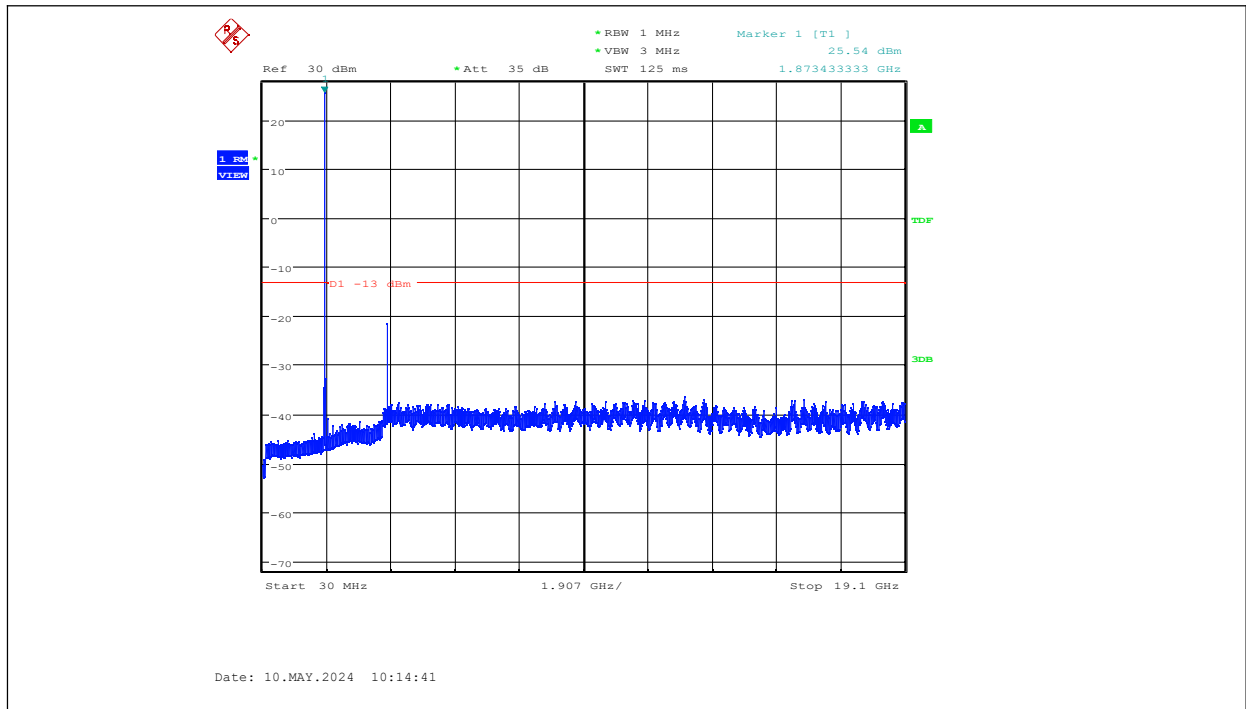


LTE band 2-15MHz-QPSK-MID-1RB

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

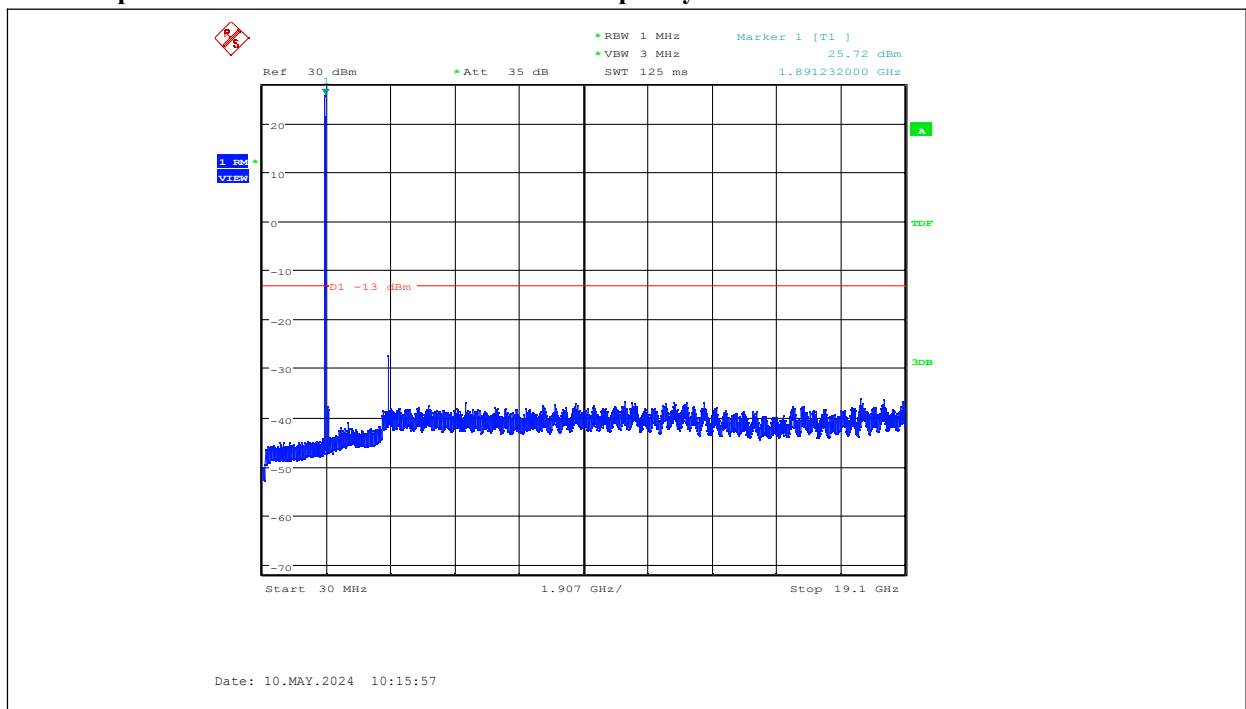
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LTE band 2-20MHz-QPSK-HIGH-1RB

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

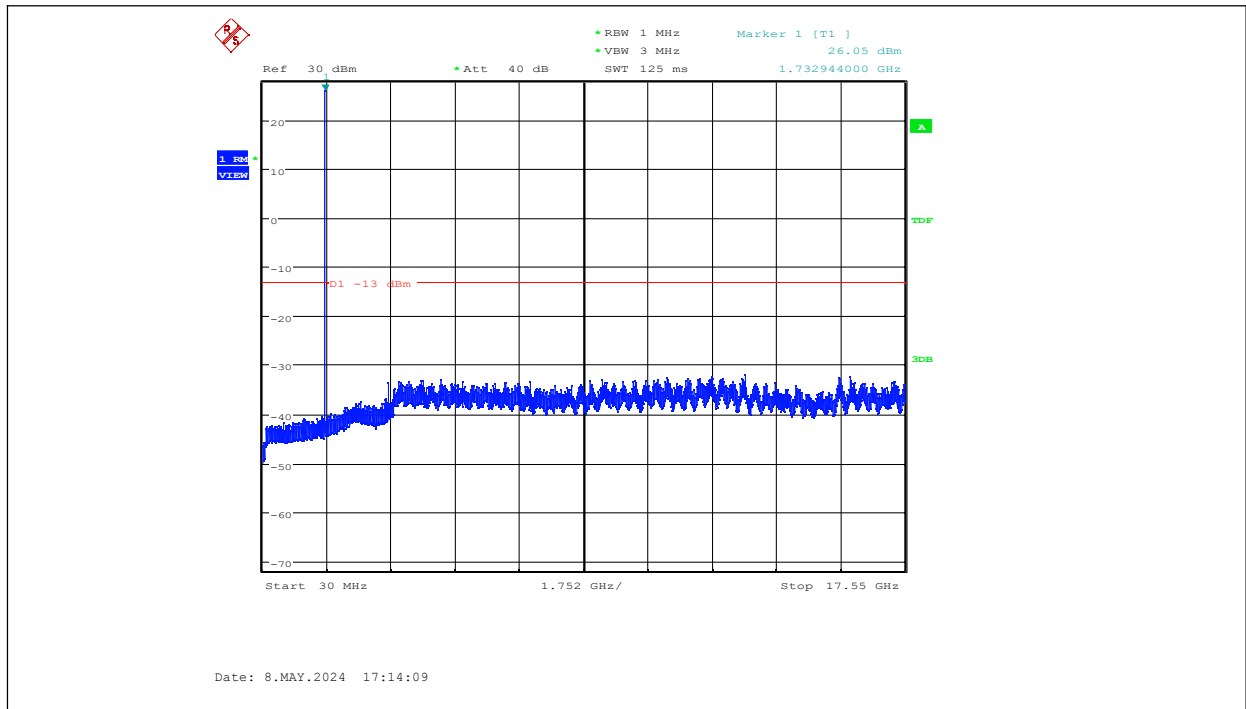


LTE band 4-1.4MHz-QPSK-MID-1RB

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

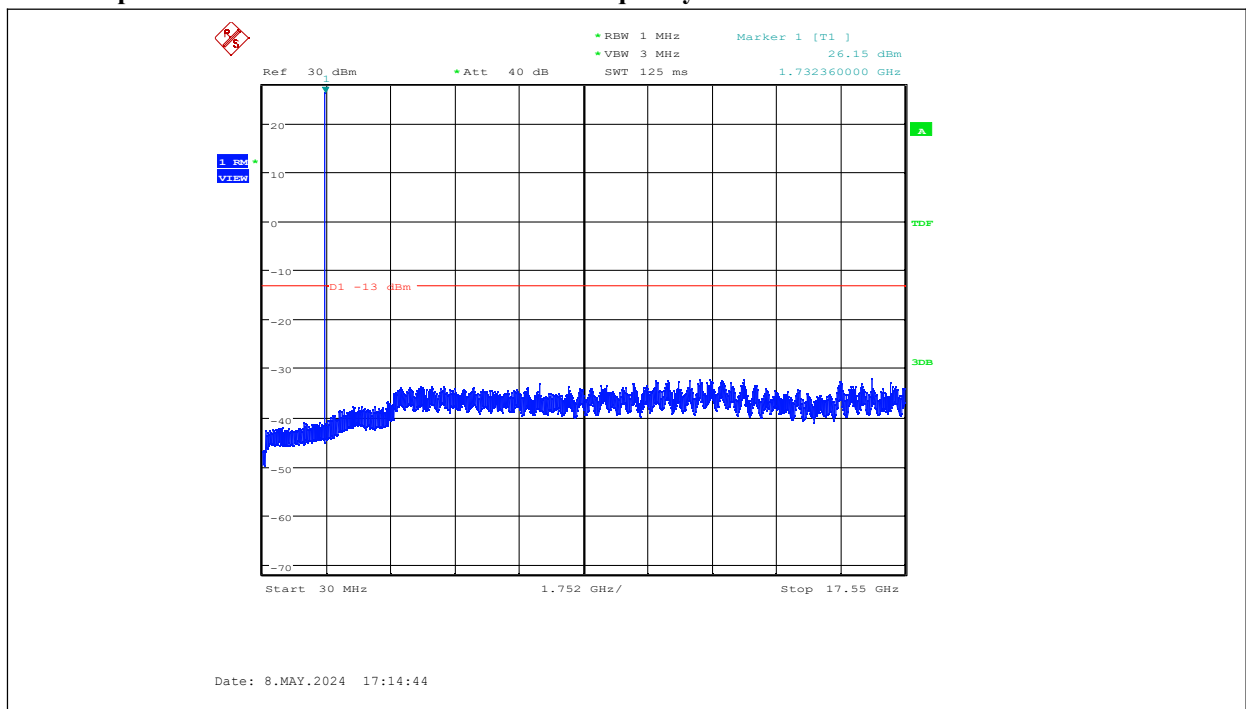
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LTE band 4-3MHz-QPSK-MID-1RB

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

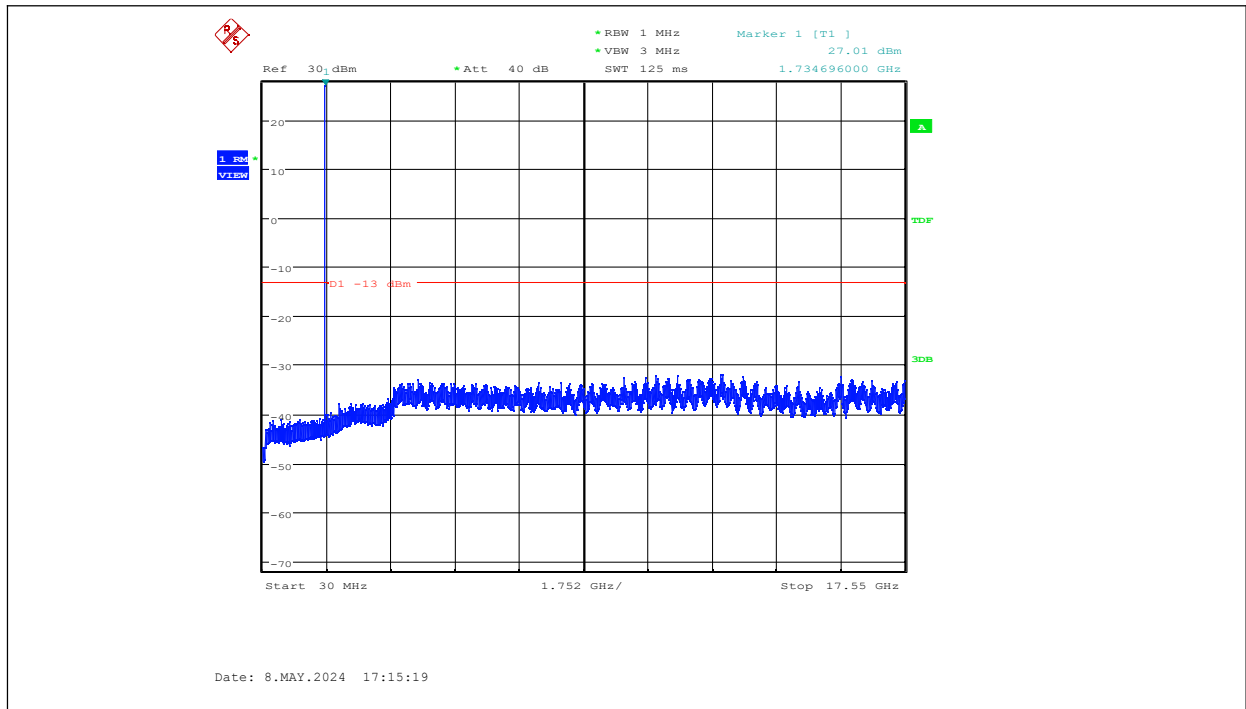


LTE band 4-5MHz-QPSK-MID-1RB

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

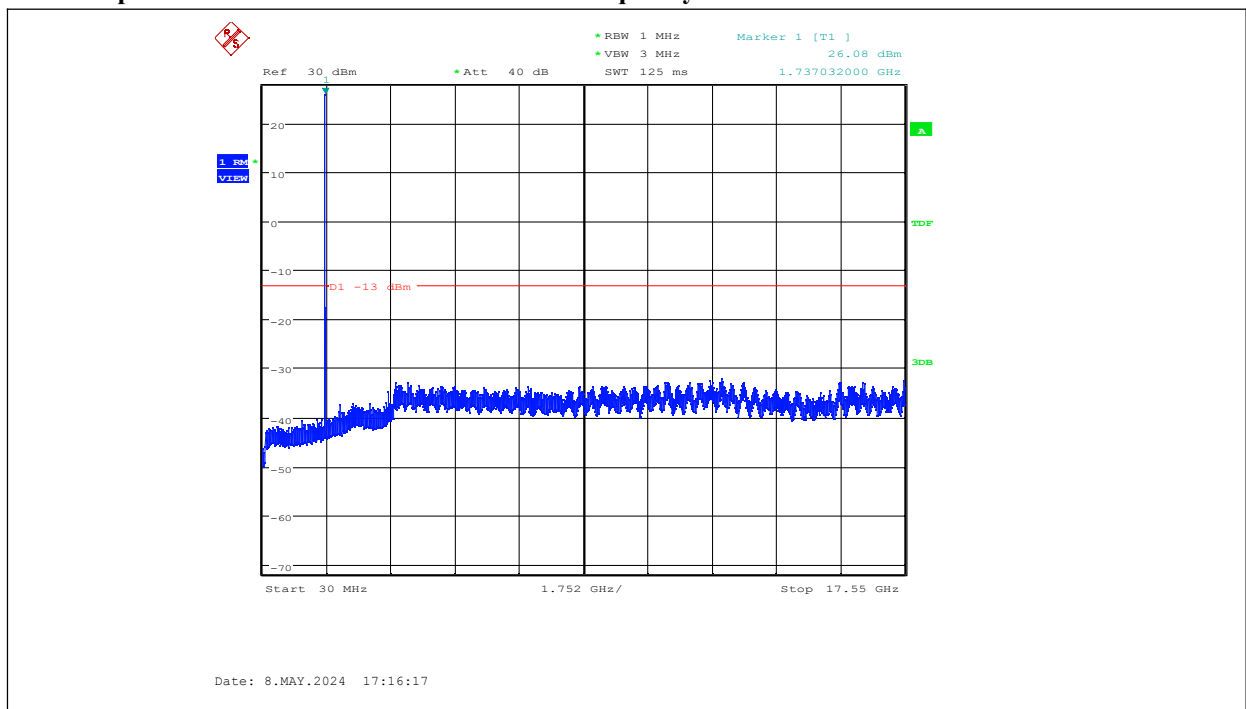
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LTE band 4-10MHz-QPSK-MID-1RB

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

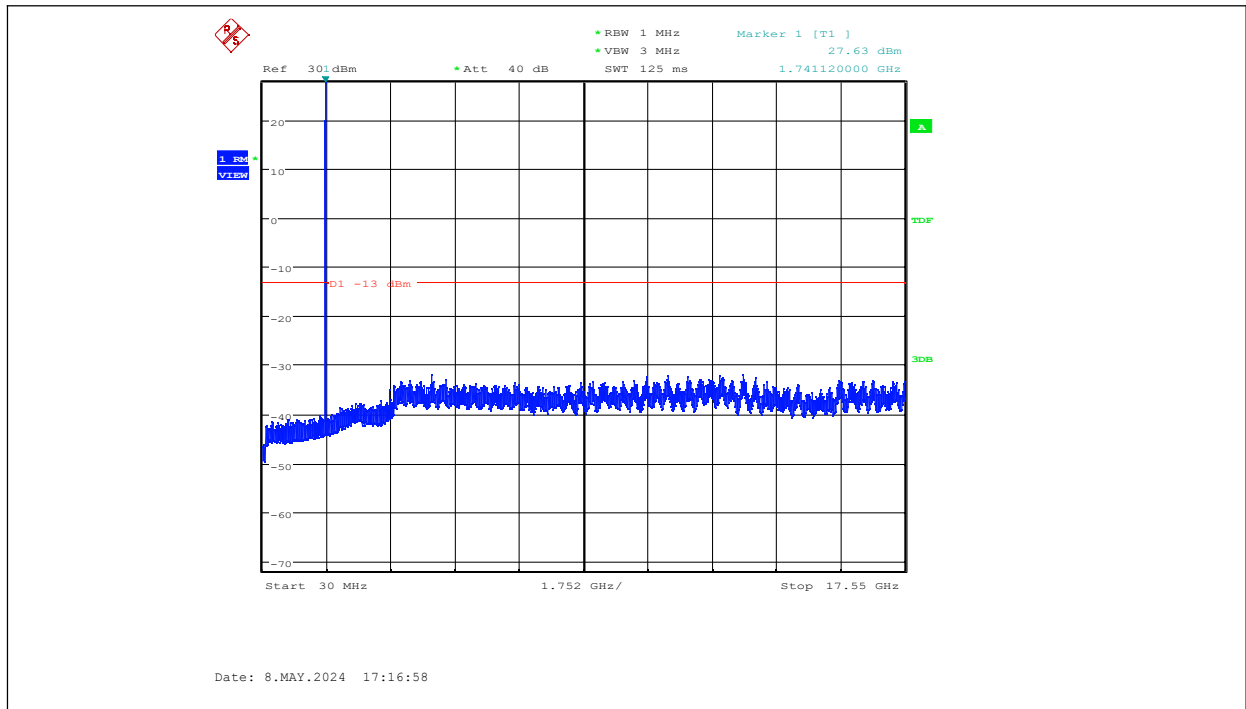


LTE band 4-15MHz-QPSK-HIGH-1RB

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

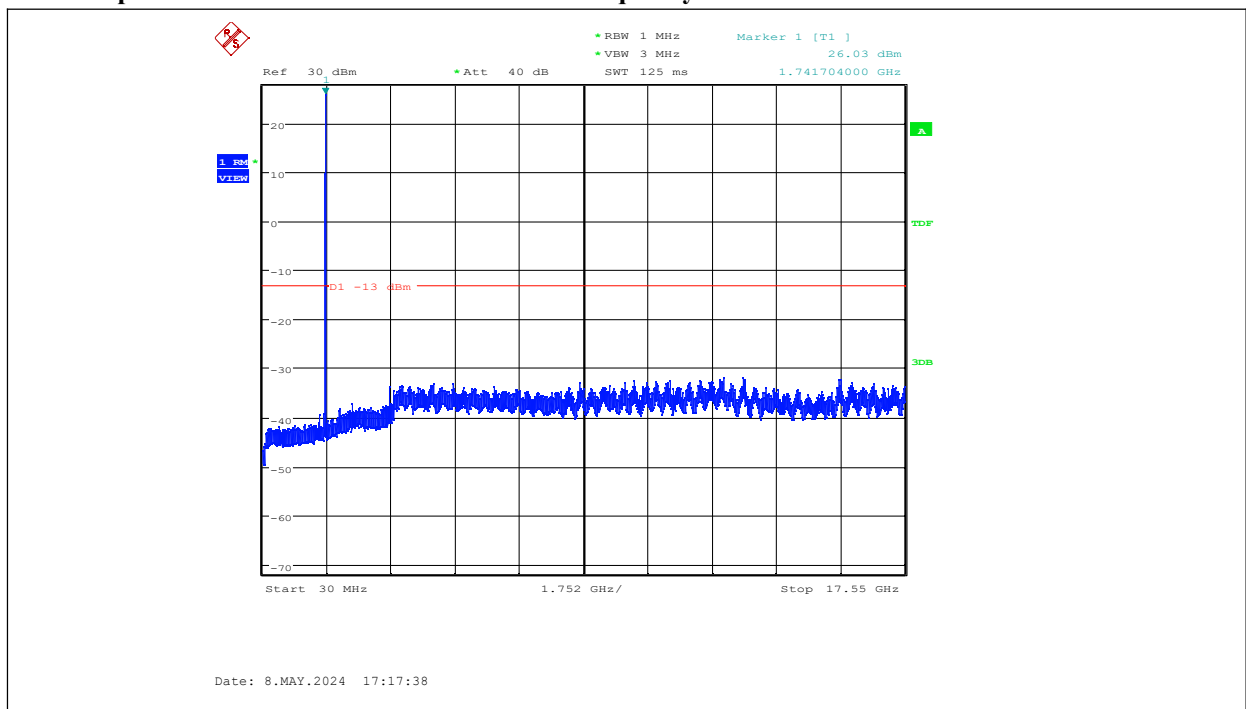
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LTE band 4-20MHz-QPSK-MID-1RB

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

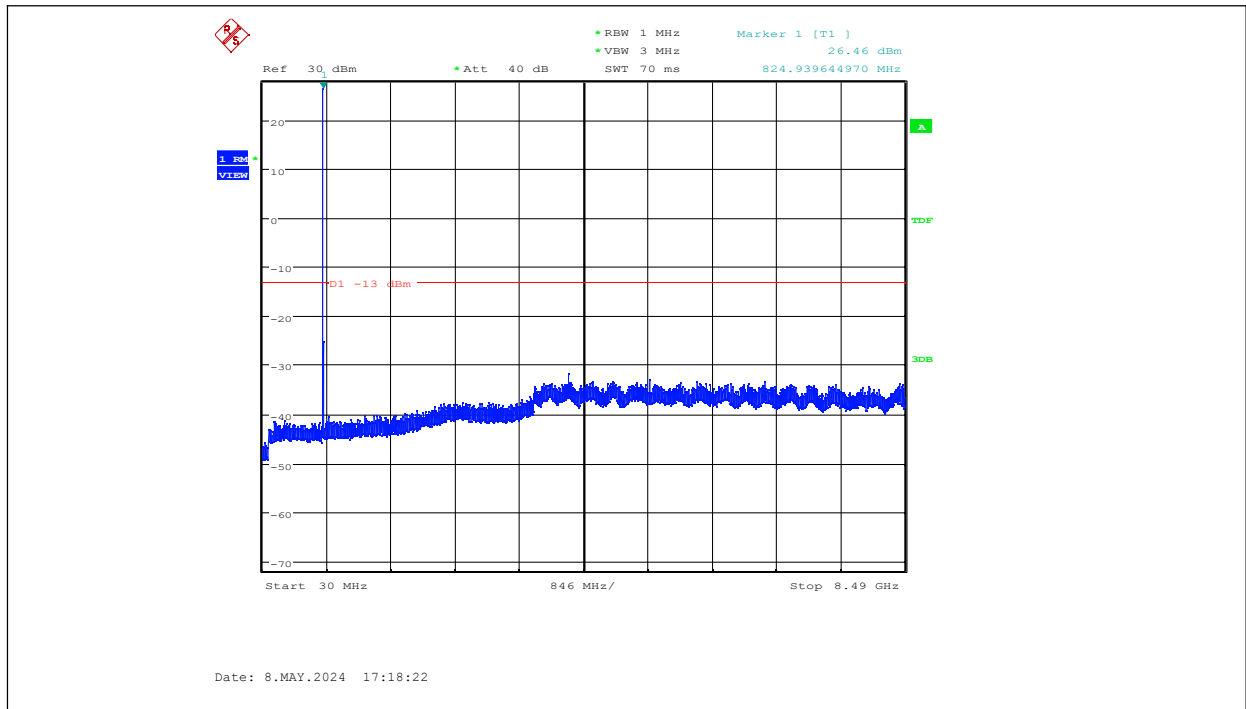


LTE band 5-1.4MHz-QPSK-LOW-50%RB

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

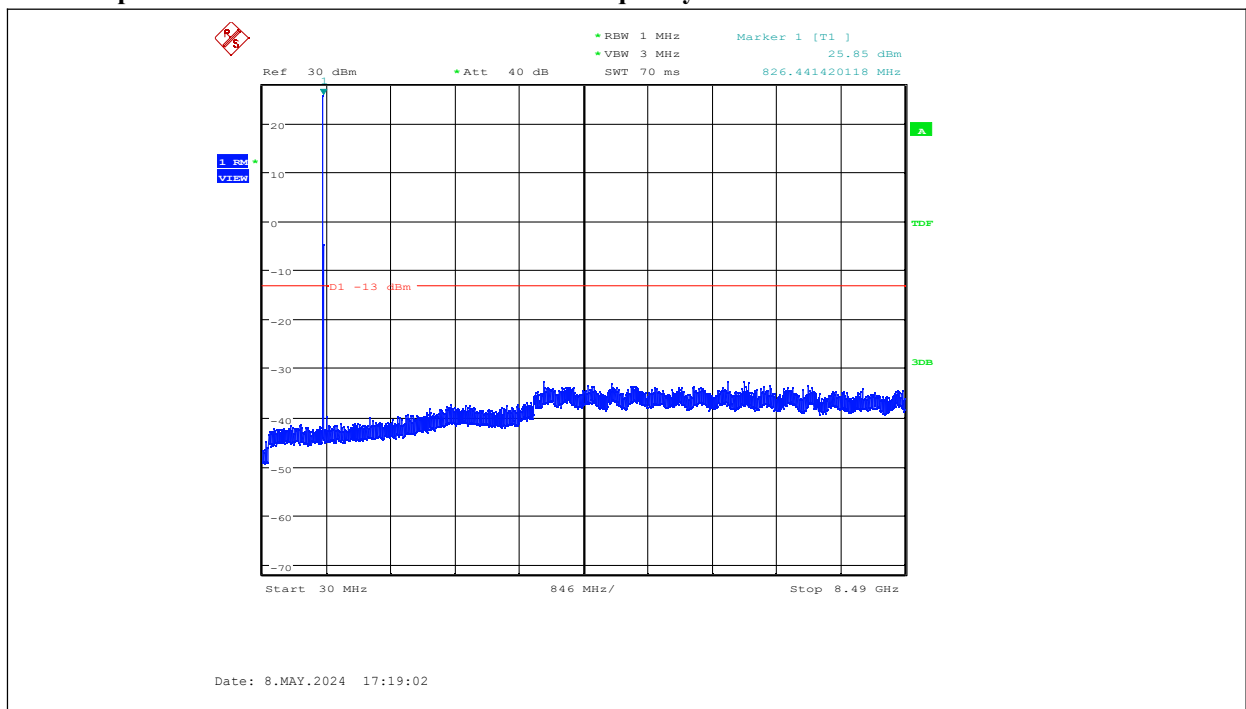
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LTE band 5-3MHz-QPSK-LOW-50%RB

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

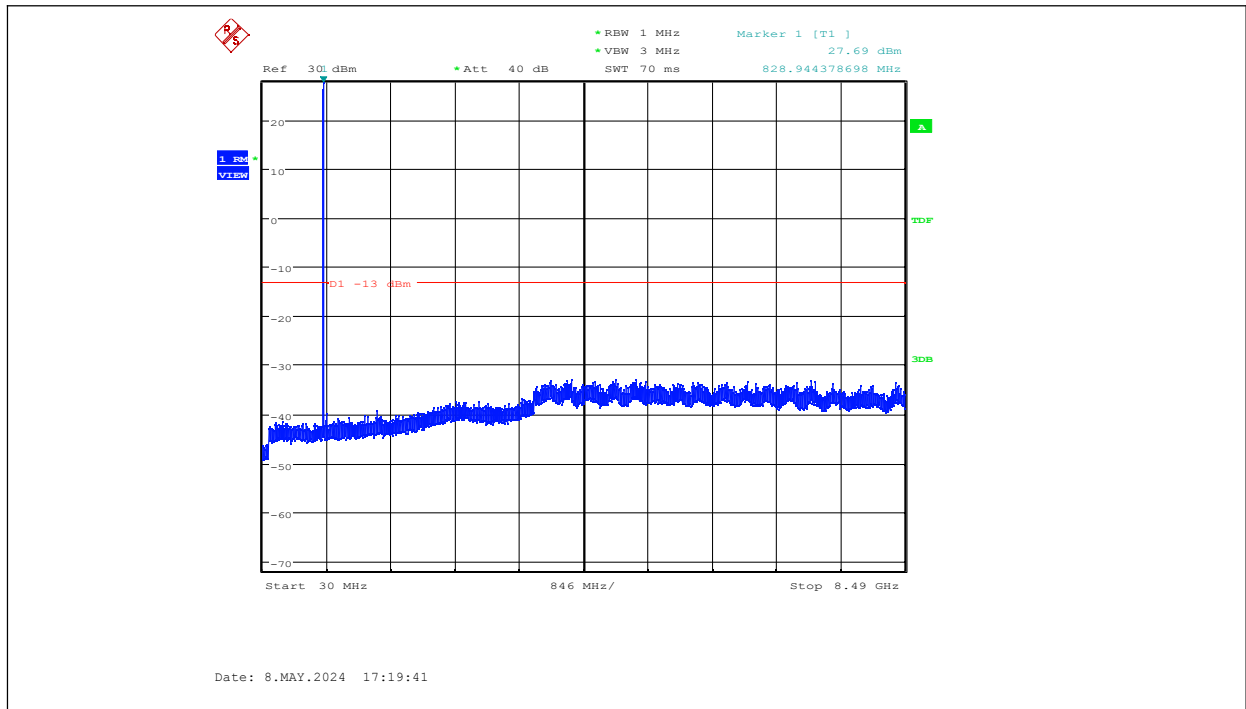


LTE band 5-5MHz-QPSK-LOW-1RB

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

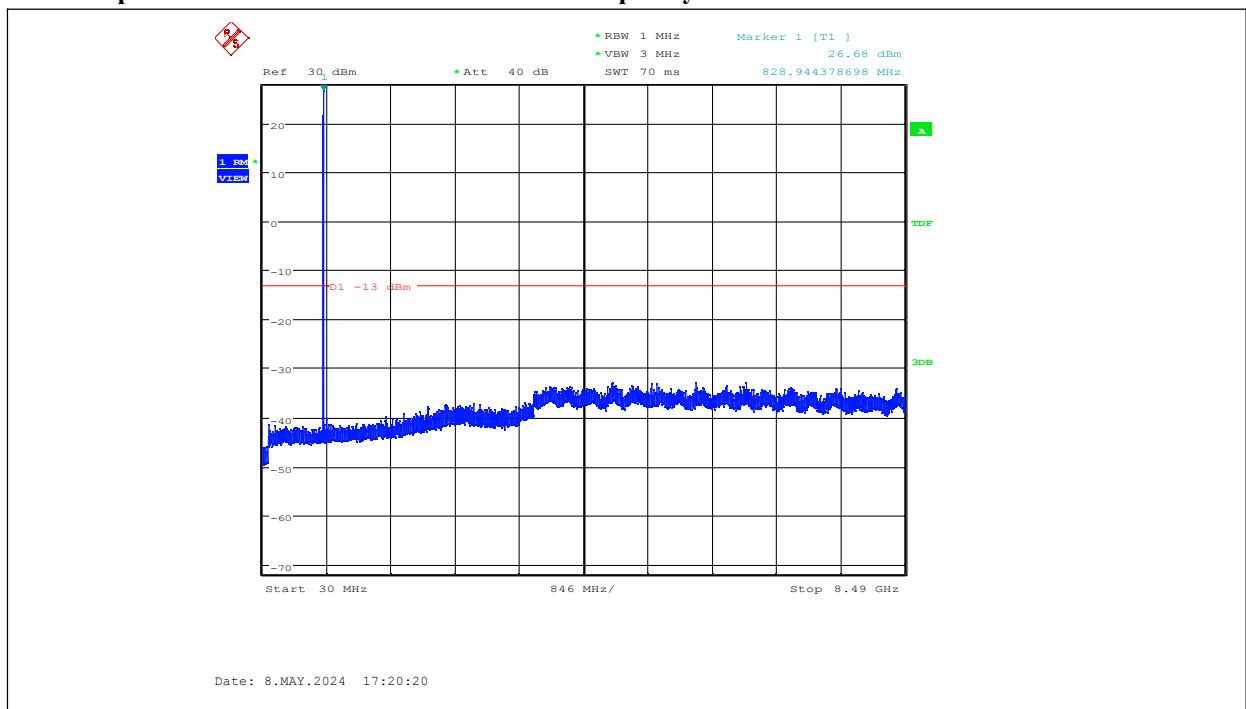
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LTE band 5-10MHz-QPSK-LOW-1RB

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

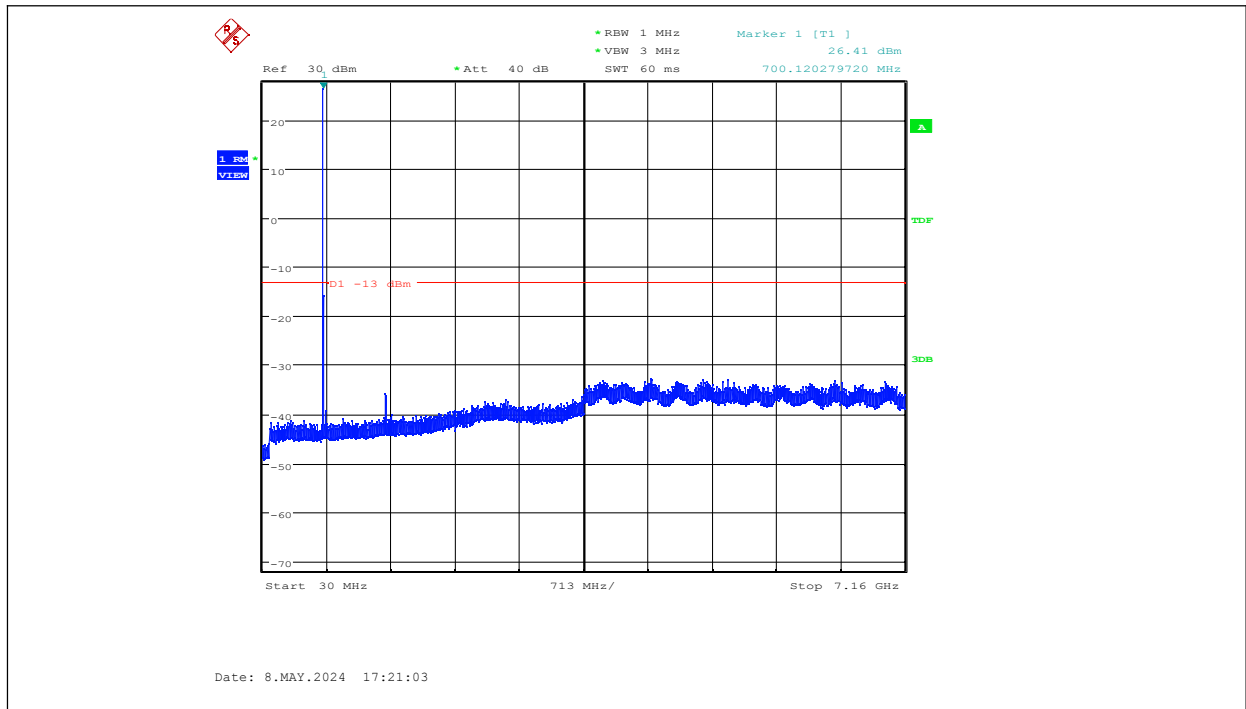


LTE band 12-1.4MHz-QPSK-LOW-50%RB

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

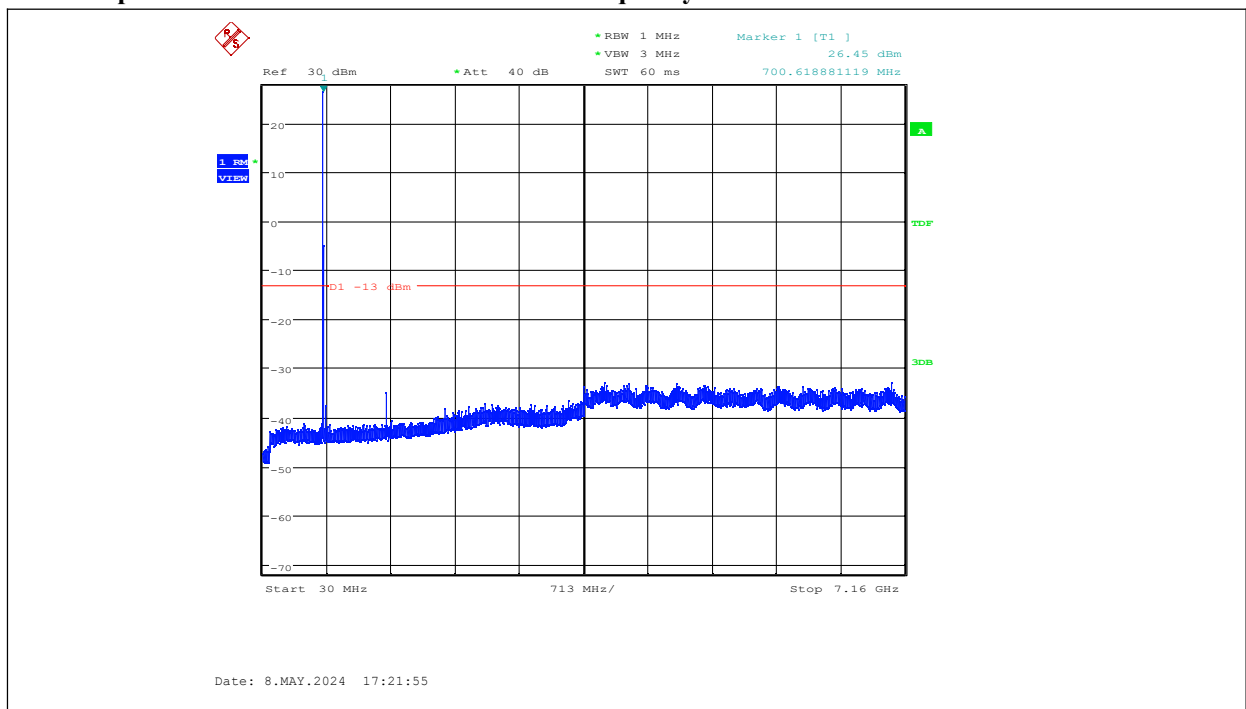
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LTE band 12-3MHz-QPSK-LOW-1RB

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

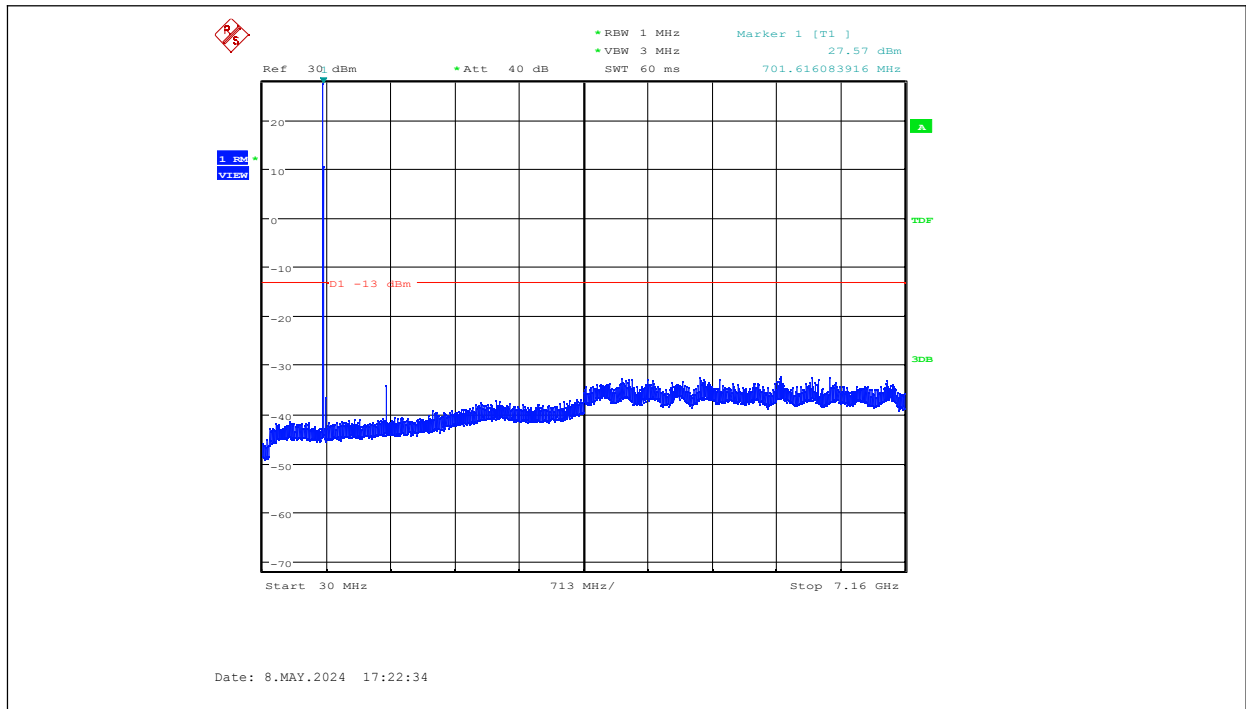


LTE band 12-5MHz-QPSK-LOW-1RB

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

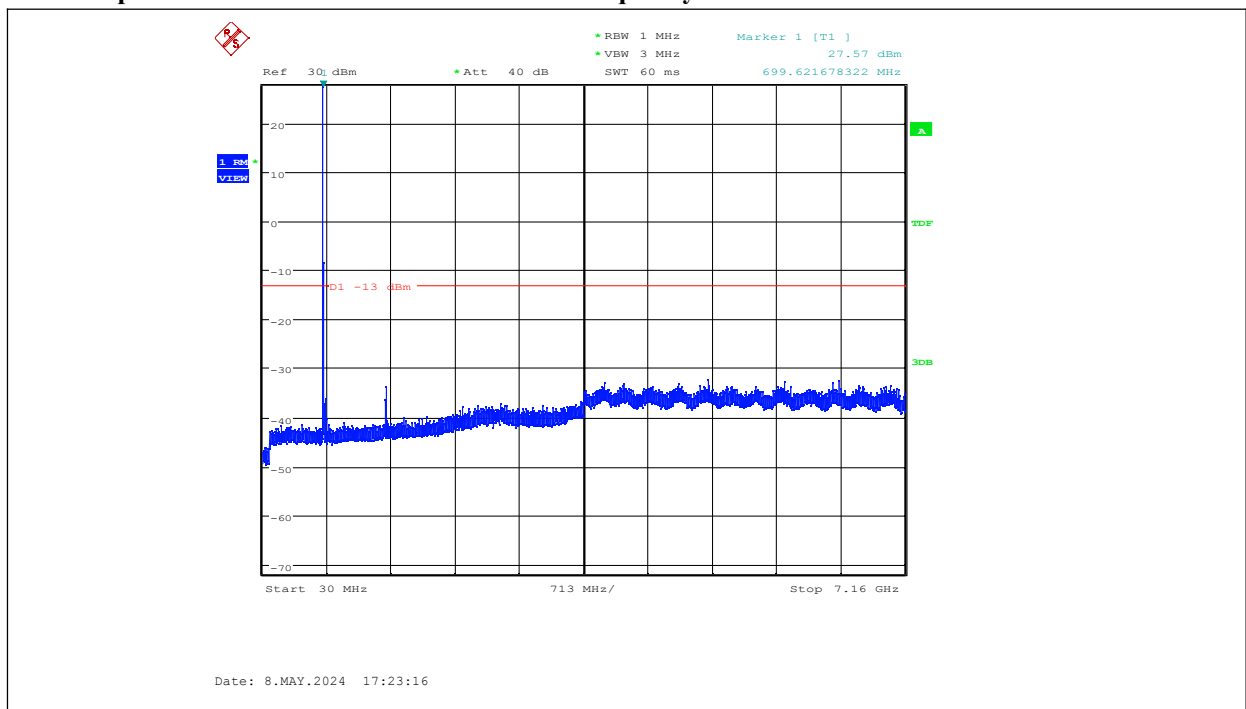
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LTE band 12-10MHz-QPSK-LOW-1RB

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

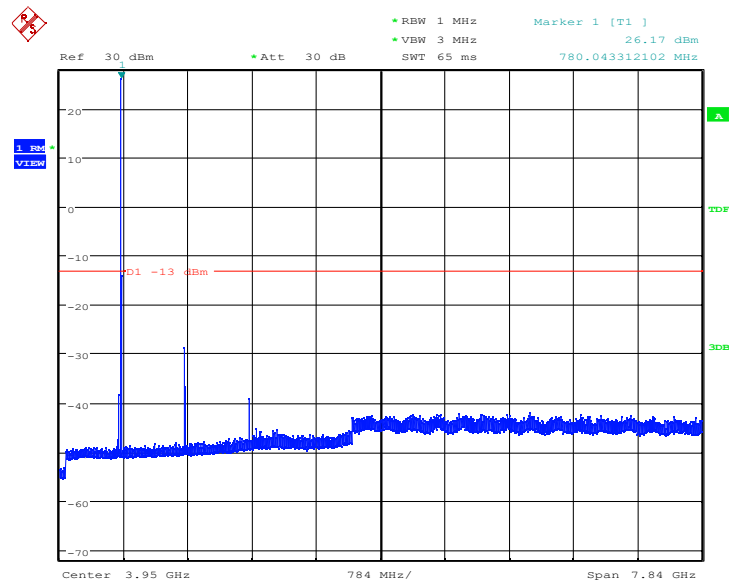


LTE band 13-5MHz-QPSK-MID-1RB

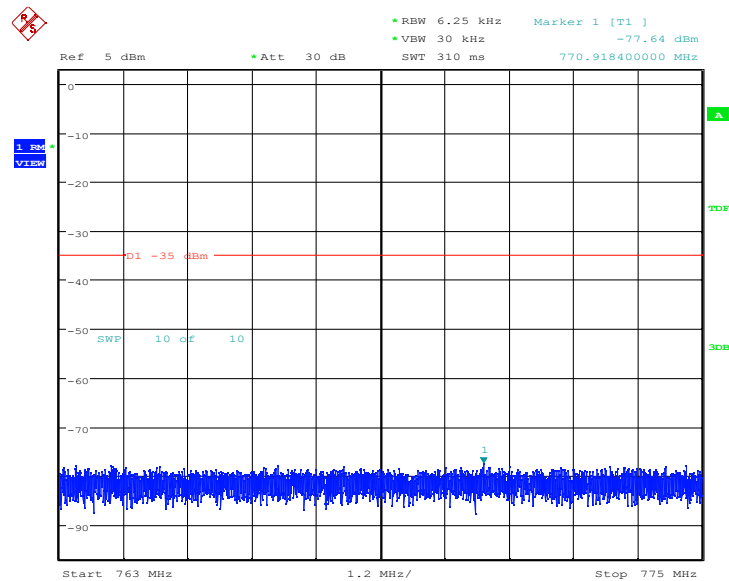
NOTE: peak above the limit line is the carrier frequency.

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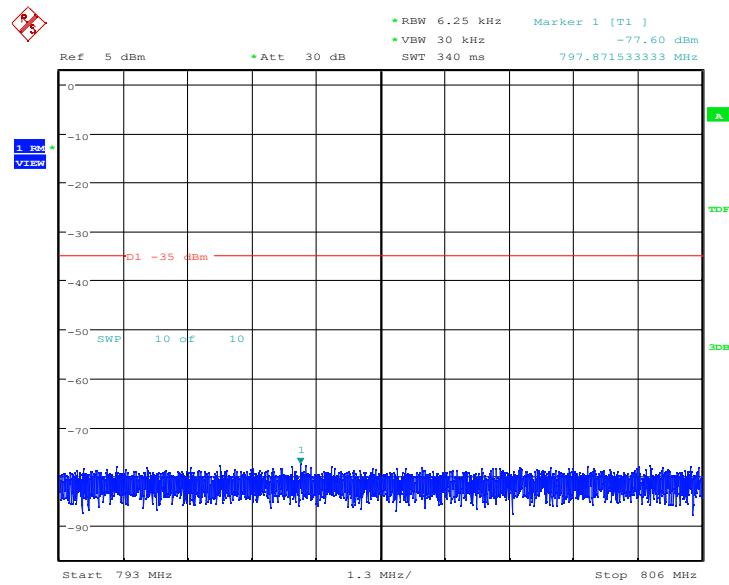
Date: 10.MAY.2024 13:59:27



Date: 10.MAY.2024 14:00:03

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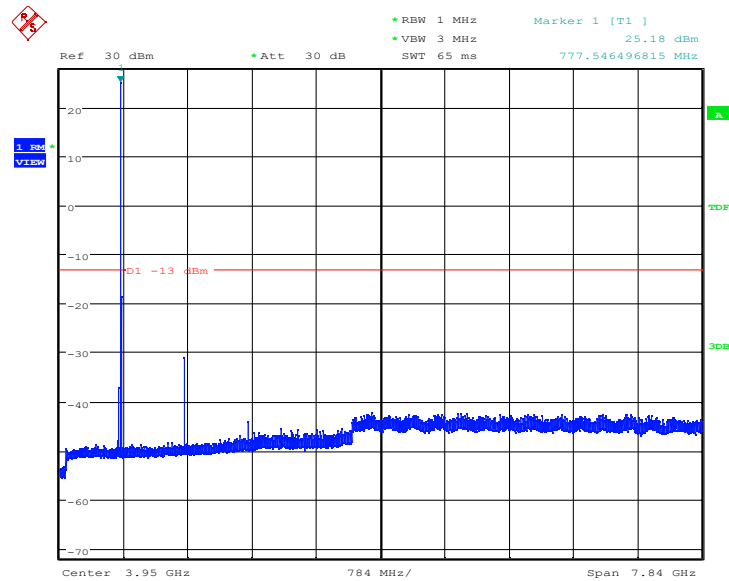
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
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Date: 10.MAY.2024 14:00:37

LTE band 13-10MHz-QPSK-LOW-1RB

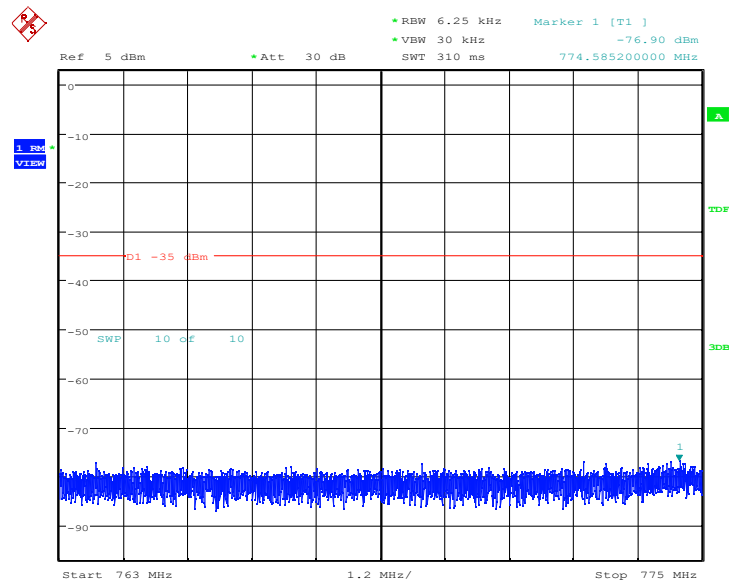
NOTE: peak above the limit line is the carrier frequency.



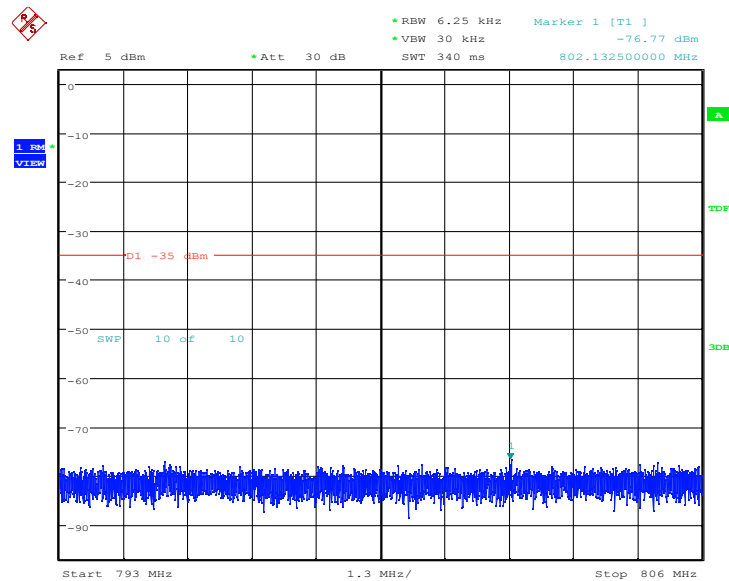
Date: 10.MAY.2024 14:03:16

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Date: 10.MAY.2024 14:03:52



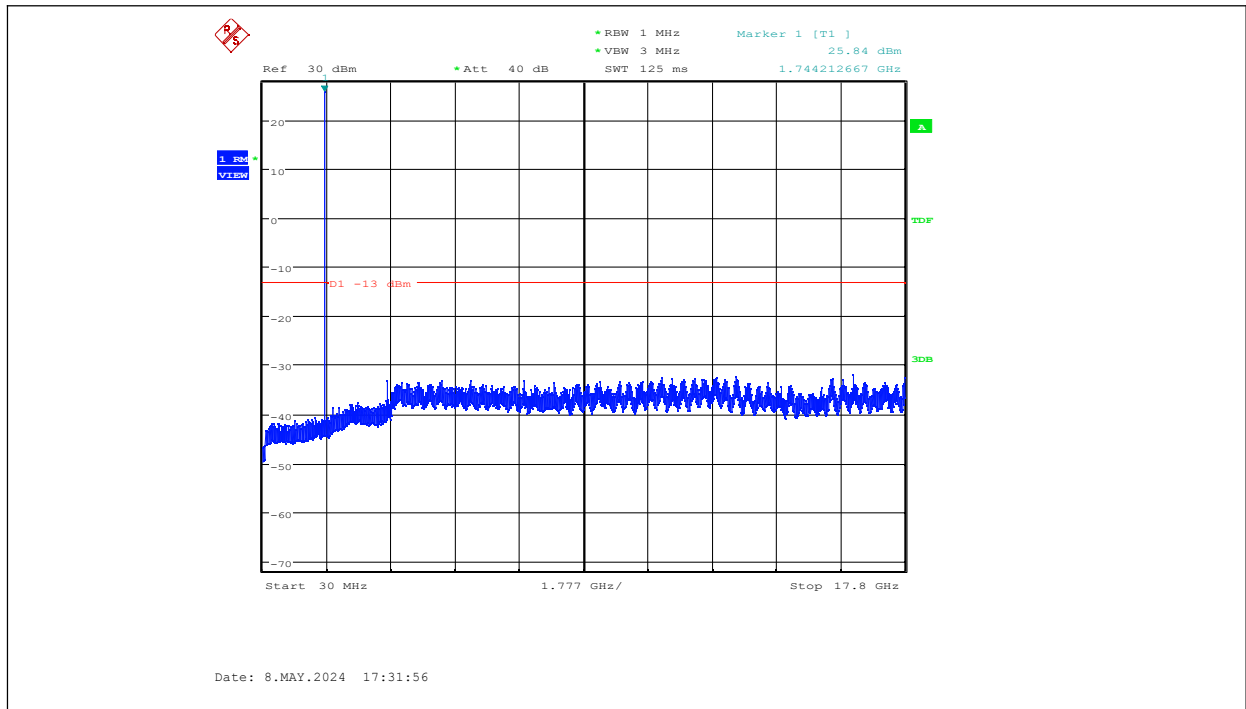
Date: 10.MAY.2024 14:04:27

LTE band 66-1.4MHz-QPSK-MID-1RB

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

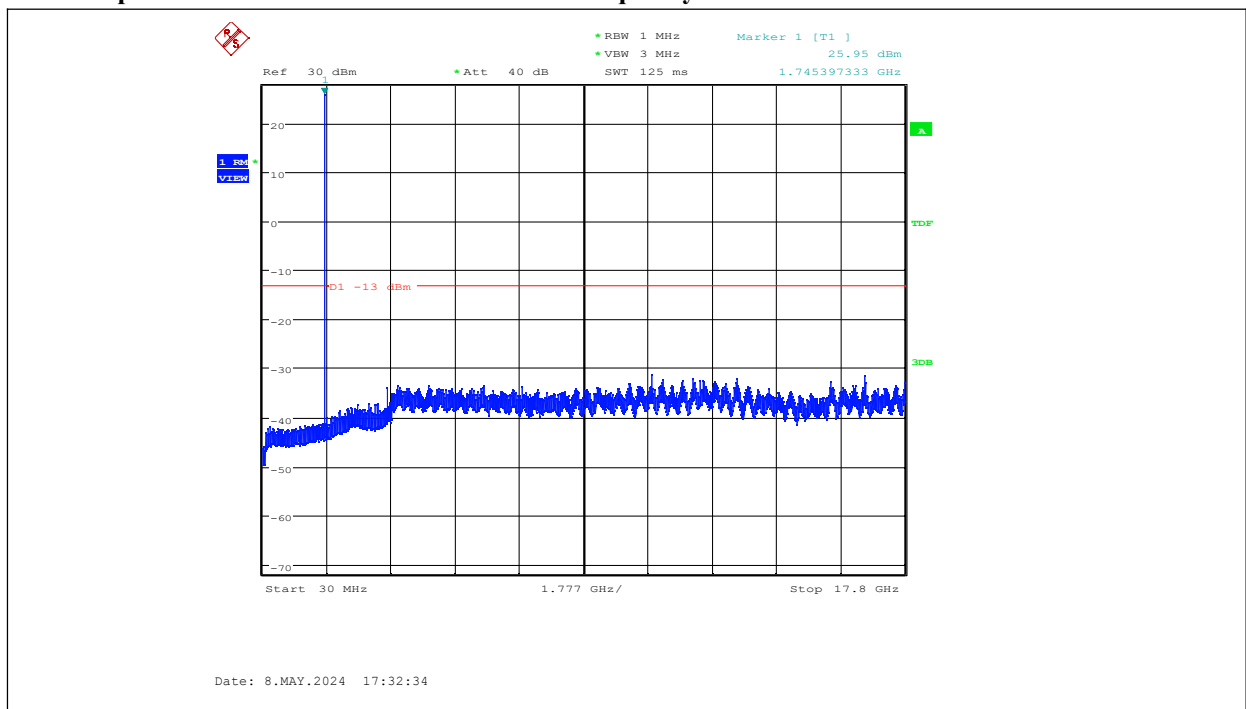
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LTE band 66-3MHz-QPSK-MID-1RB

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

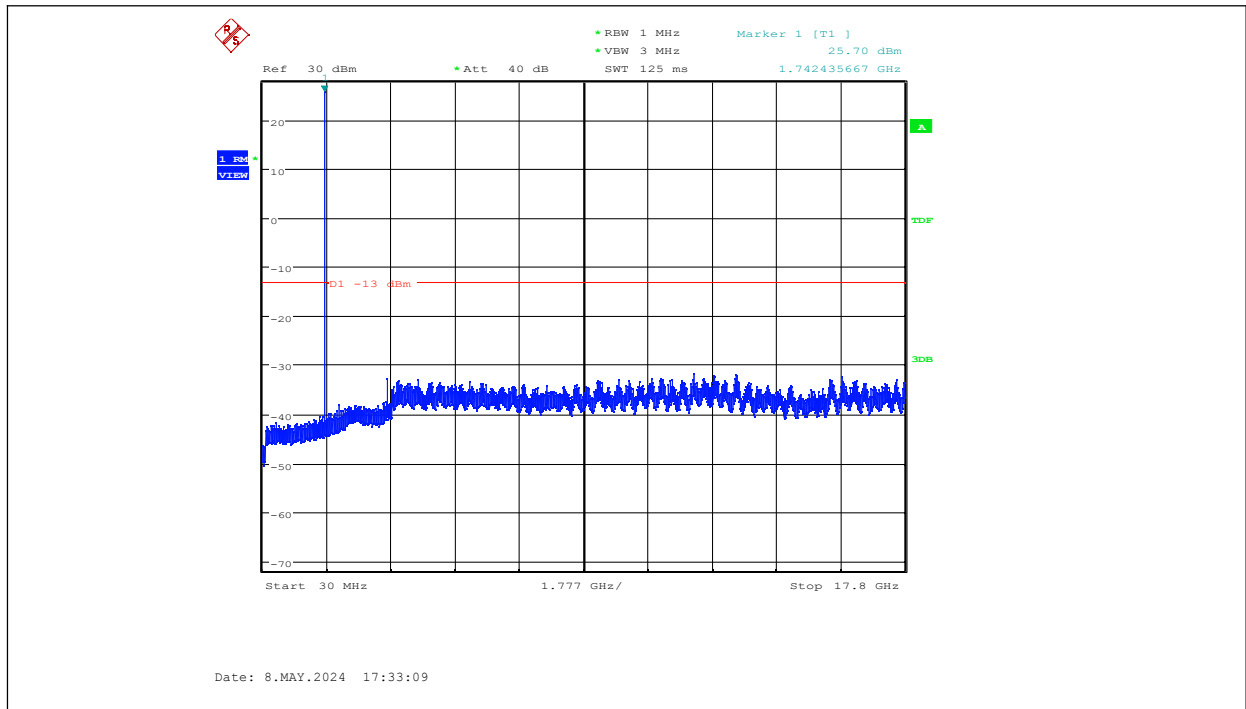


LTE band 66-5MHz-QPSK-MID-1RB

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

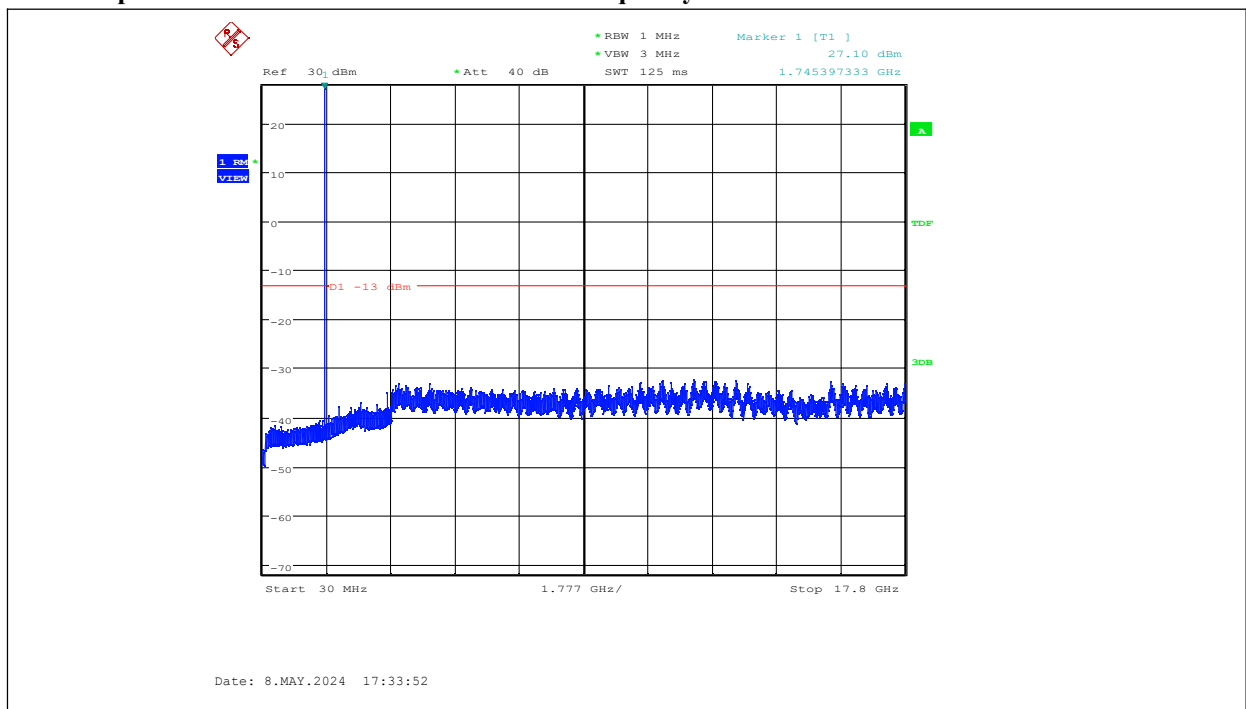
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LTE band 66-10MHz-QPSK-MID-1RB

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

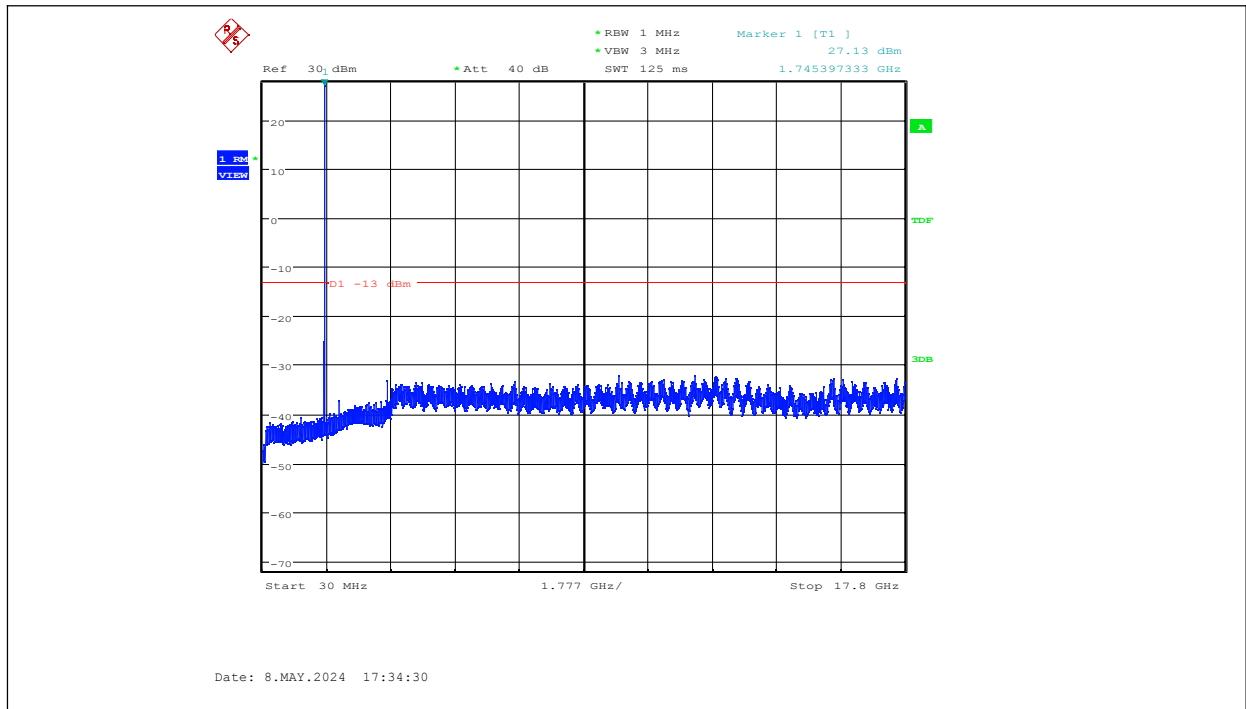


LTE band 66-15MHz-QPSK-MID-1RB

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

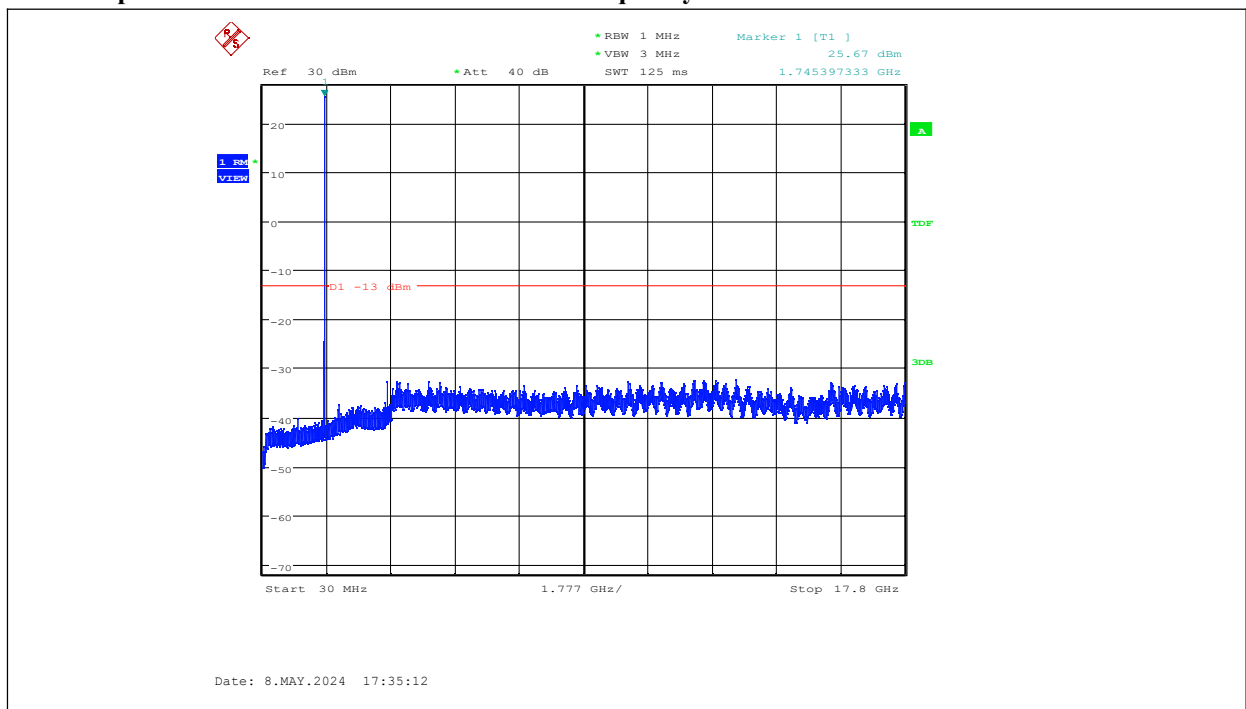
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LTE band 66-20MHz-QPSK-MID-1RB

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

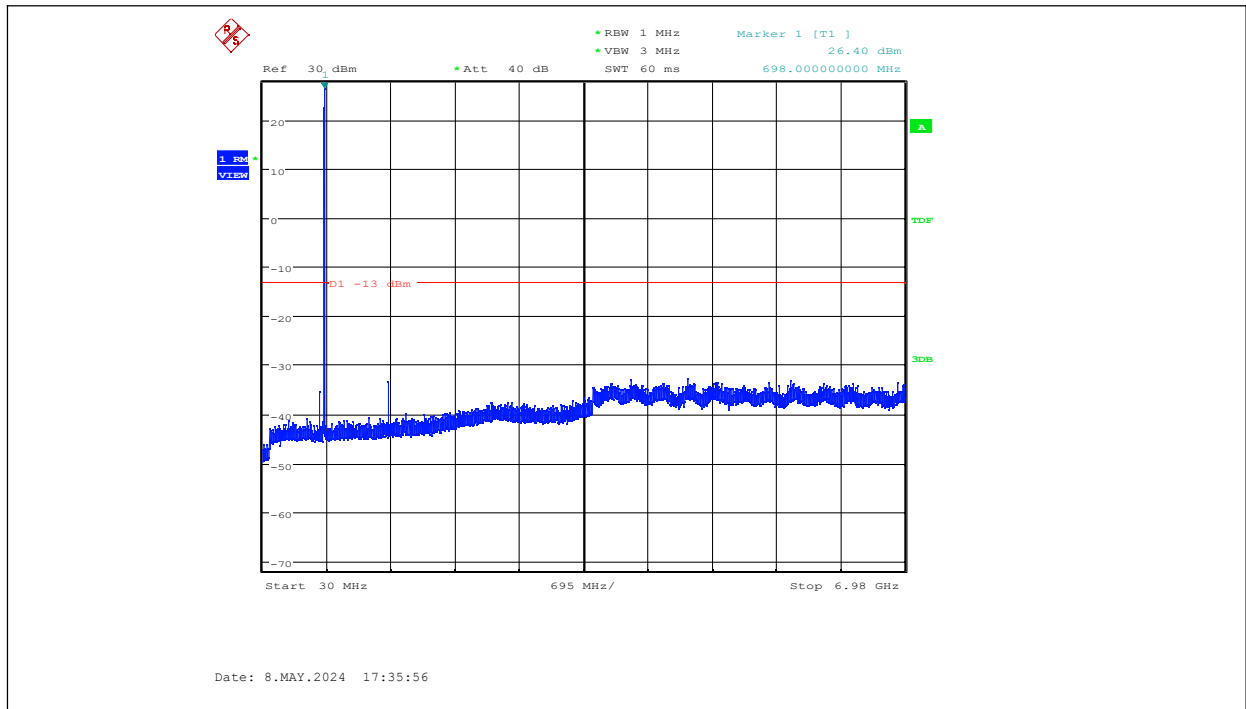


LTE band 71-5MHz-QPSK-HIGH-1RB

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

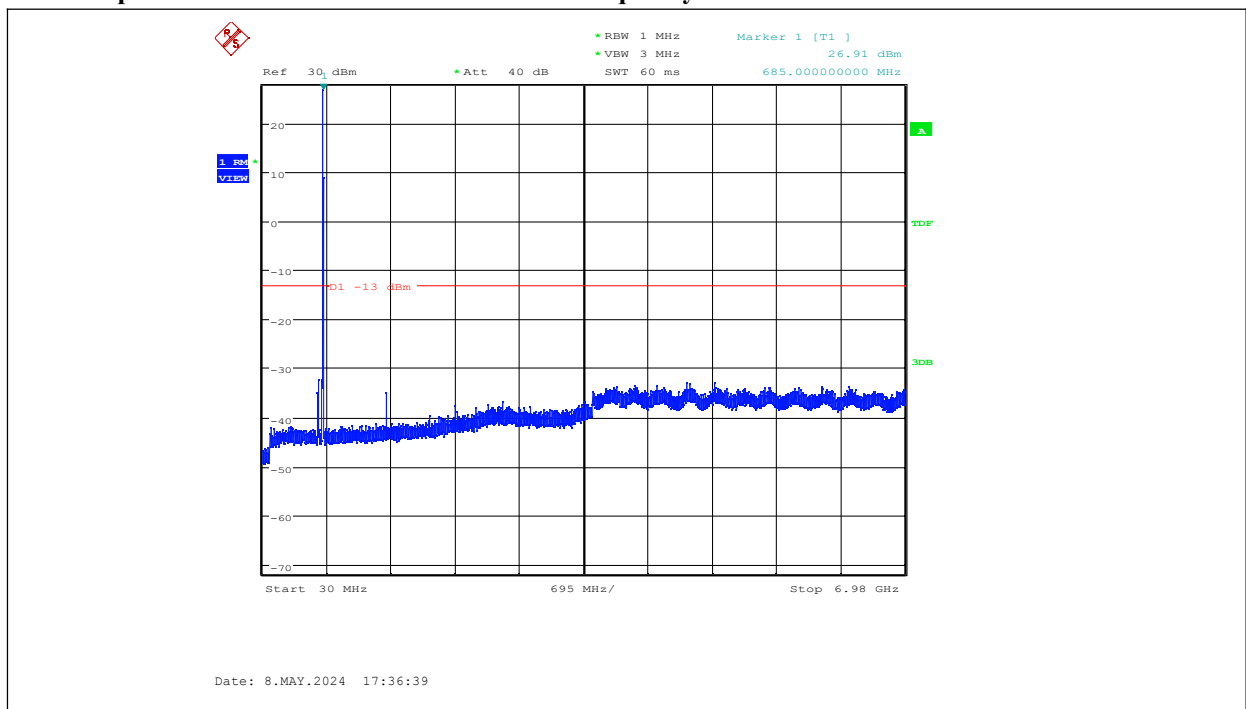
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LTE band 71-10MHz-QPSK-MID-1RB

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

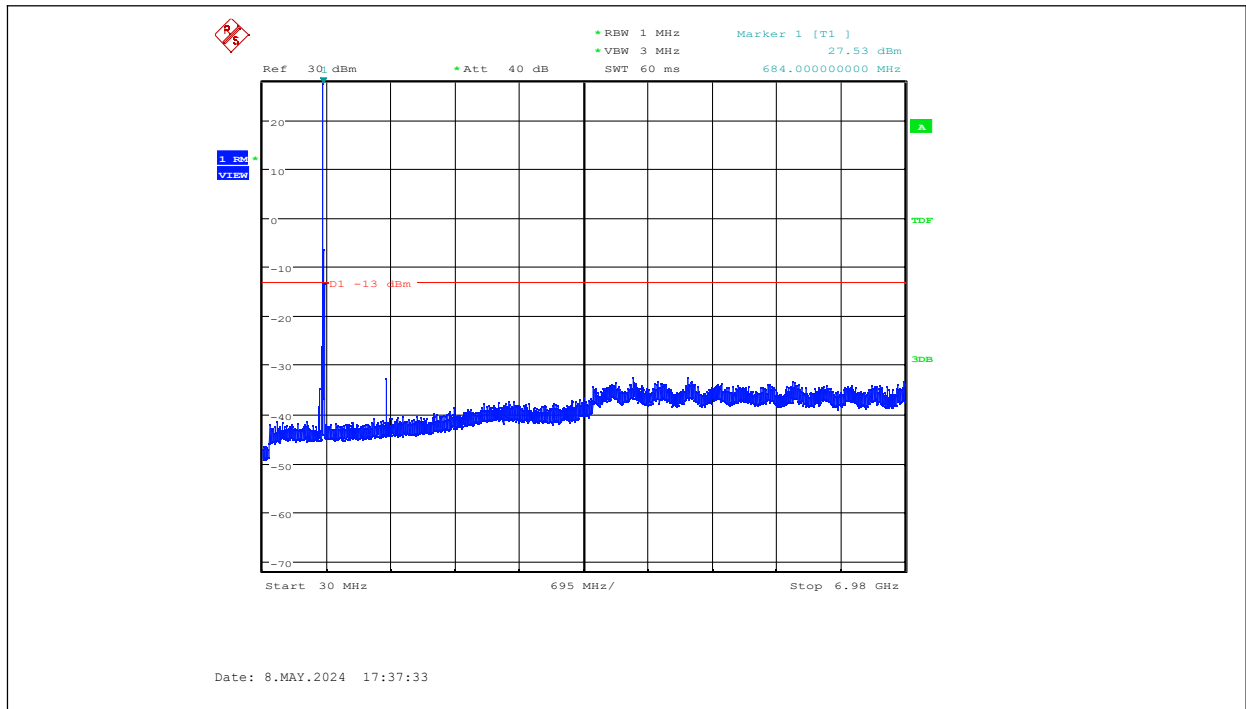


LTE band 71-15MHz-QPSK-HIGH-1RB

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

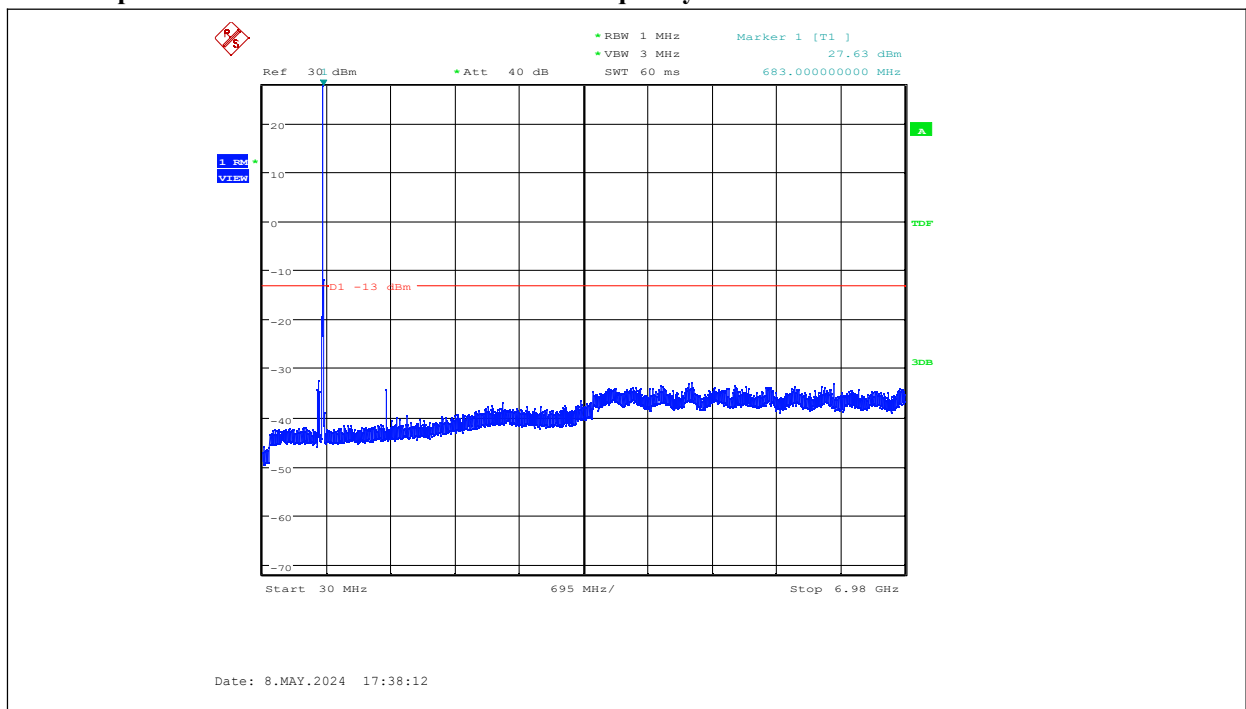
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LTE band 71-20MHz-QPSK-MID-1RB

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



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6.6. Radiated Spurious Emission

Specifications:	FCC Part 2.1051,24.238,2.1053,22.917, 27.53
DUT Serial Number:	IMEI:865357069912077
Test conditions:	Ambient Temperature:16.9°C-23.1°C Relative Humidity:53.0%-59.0% Air pressure: 95.4kPa-96.0kPa
Test Results:	Pass

Limit Level Construction:

According to Part 27.53(c)(f):(c)For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the 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, in accordance with the following:

- (1) On any frequency outside the 746–758 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;
- (2) 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;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4)
- (f) For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to –70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and –80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

According to Part 27.53(h):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.

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

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Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty (30MHz-150MHz)	3.8 dB (k=2)
Expanded Uncertainty (150MHz-1GHz)	4.0dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	3.1dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	3.2dB (k=2)
Expanded Uncertainty (6GHz-20GHz)	3.9dB (k=2)

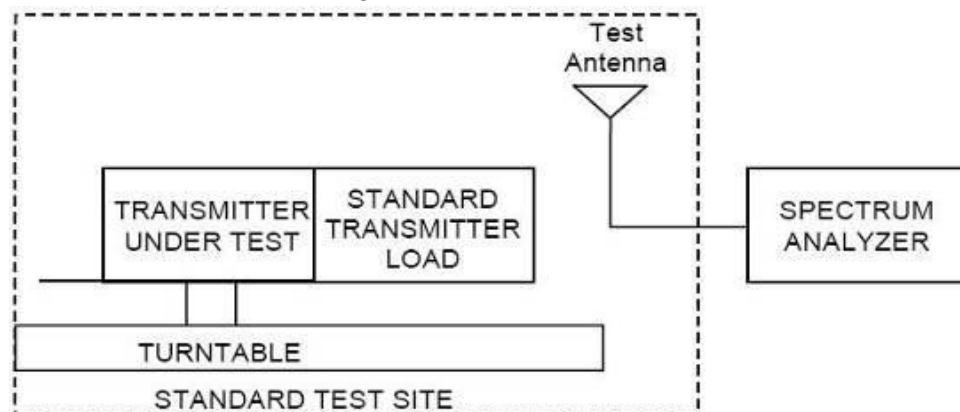
Test Setup:

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.

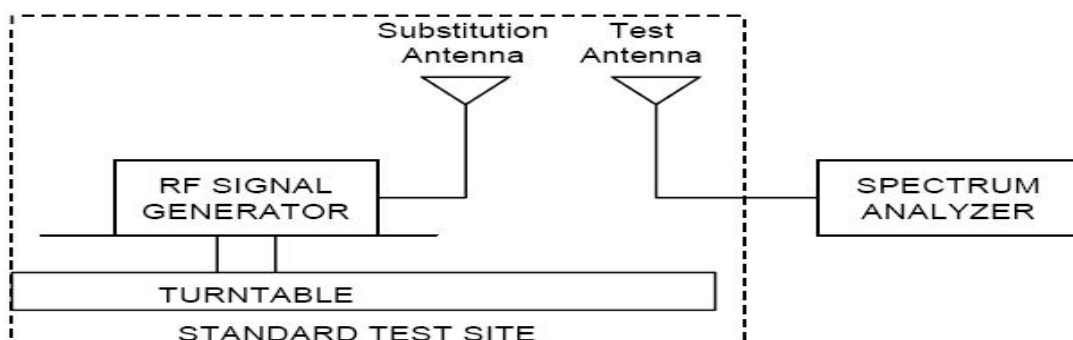
Test Method:

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.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna

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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.

Test frequency: 30MHz- 20GHz

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

6.6.1 LTE Radiated Spurious Emission Results

LTE B2 Radiated Spurious Emission Results

Test Data (20MHz bandwidth 18700 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
121.896000	-85.37	0.4	2.1	-83.67	V
166.248000	-90.82	0.3	5.9	-85.22	V
2200.000000	-65.21	1.1	9.0	-57.31	H
3719.516129	-76.17	2.3	12.3	-66.17	H
7440.000000	-71.62	2.4	11.3	-62.72	V
10578.000000	-65.39	3.1	11.0	-57.49	V

LTE B2 Radiated Spurious Emission Results

Test Data (20MHz bandwidth 18900 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
124.710000	-85.76	0.4	2.1	-84.06	V
166.668000	-91.05	0.3	5.9	-85.45	H
1490.800000	-73.17	0.9	8.0	-66.07	V
3760.645161	-73.90	2.3	12.5	-63.70	V
7519.838710	-72.37	2.7	11.5	-63.57	V
10575.000000	-65.62	3.1	11.0	-57.72	V

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LTE B2 Radiated Spurious Emission Results

Test Data (20MHz bandwidth 19100 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
165.996000	-91.32	0.3	5.9	-85.72	H
1591.000000	-75.52	0.9	10.4	-66.02	H
2200.000000	-65.40	1.1	9.0	-57.50	H
3804.677419	-71.50	2.4	12.5	-61.40	H
9143.000000	-67.16	3.1	11.1	-59.16	V
10575.000000	-64.74	3.1	11.0	-56.84	V

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LTE B4 Radiated Spurious Emission Results

Test Data (20MHz bandwidth 20050 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
125.004000	-88.15	0.4	3.9	-84.65	V
168.768000	-91.86	0.3	5.9	-86.26	H
2201.200000	-65.16	1.1	9.0	-57.26	H
7242.580645	-73.79	2.2	11.4	-64.59	V
9258.000000	-66.88	3.3	10.8	-59.38	V
10575.000000	-65.68	3.1	11.0	-57.78	V

LTE B4 Radiated Spurious Emission Results

Test Data (20MHz bandwidth 20175 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
125.004000	-88.06	0.4	3.9	-84.56	V
825.360000	-77.00	0.6	7.3	-70.30	V
2570.400000	-66.24	1.2	11.3	-56.14	H
7250.322581	-73.75	2.2	11.4	-64.55	V
9194.500000	-66.90	3.3	10.9	-59.30	V
10576.000000	-65.75	3.1	11.0	-57.85	V

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LTE B4 Radiated Spurious Emission Results**Test Data (20MHz bandwidth 20300 QPSK Mode 1RB)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
125.004000	-88.94	0.4	3.9	-85.44	V
166.626000	-91.16	0.3	5.9	-85.56	H
2201.200000	-65.39	1.1	9.0	-57.49	H
7231.451613	-73.78	2.2	11.4	-64.58	V
9198.000000	-67.18	3.1	10.9	-59.38	V
10574.000000	-65.65	3.1	11.0	-57.75	V

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LTE B5 Radiated Spurious Emission Results

Test Data (10MHz bandwidth 20450 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
166.626000	-91.16	0.3	5.9	-85.56	H
1852.800000	-71.03	1.0	9.7	-62.33	H
2200.000000	-65.29	1.1	9.0	-57.39	H
3516.774194	-77.71	1.7	12.2	-67.21	V
7245.967742	-73.68	2.2	11.4	-64.48	V
10575.500000	-65.43	3.1	11.0	-57.53	V

LTE B5 Radiated Spurious Emission Results

Test Data (10MHz bandwidth 20525 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
111.354000	-84.76	0.4	-0.3	-85.46	V
166.752000	-90.92	0.3	5.9	-85.32	H
2200.000000	-65.30	1.1	9.0	-57.40	H
7243.064516	-73.42	2.4	11.4	-64.42	V
9202.000000	-66.80	3.3	10.9	-59.20	V
10574.500000	-65.59	3.1	11.0	-57.69	V

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LTE B5 Radiated Spurious Emission Results**Test Data (10MHz bandwidth 20600 QPSK Mode 1RB)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
125.004000	-88.07	0.4	3.9	-84.57	V
1853.500000	-71.02	1.0	9.7	-62.32	H
2200.000000	-65.18	1.1	9.0	-57.28	H
5110.645161	-78.31	1.9	12.4	-67.81	V
9196.500000	-67.07	3.1	10.9	-59.27	V
10574.500000	-65.59	3.1	11.0	-57.69	V

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LTE B12 Radiated Spurious Emission Results

Test Data (3MHz bandwidth 23025 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
510.620000	-78.97	0.4	6.8	-72.57	V
768.745000	-72.11	0.6	6.8	-65.91	V
2201.200000	-65.22	1.1	9.0	-57.32	H
7244.516129	-73.43	2.4	11.4	-64.43	V
9355.500000	-67.39	2.8	11.0	-59.19	V
10573.500000	-65.61	3.1	11.0	-57.71	V

LTE B12 Radiated Spurious Emission Results

Test Data (3MHz bandwidth 23095 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
165.828000	-91.24	0.3	5.9	-85.64	V
1850.000000	-71.18	1.0	9.7	-62.48	H
2201.200000	-65.18	1.2	9.0	-57.38	H
5111.612903	-77.84	2.1	12.4	-67.54	V
7243.548387	-73.68	2.2	11.4	-64.48	V
10575.000000	-65.40	3.1	11.0	-57.50	V

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LTE B12 Radiated Spurious Emission Results**Test Data (3MHz bandwidth 23165 QPSK Mode 1RB)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
121.518000	-85.25	0.4	2.1	-83.55	V
751.910000	-72.73	0.5	6.8	-66.43	V
2207.600000	-65.29	1.1	9.0	-57.39	H
5112.580645	-78.16	2.1	12.4	-67.86	V
9200.000000	-66.87	3.3	10.9	-59.27	V
10574.000000	-65.57	3.1	11.0	-57.67	V

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LTE B13 Radiated Spurious Emission Results

Test Data (10MHz bandwidth 23230 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
166.584000	-91.05	0.3	5.9	-85.45	H
635.500000	-76.91	0.5	7.1	-70.31	V
2207.600000	-65.31	1.1	9.0	-57.41	H
1560.200000	-73.49	1.0	8.6	-65.89	V
9197.500000	-67.03	3.1	10.9	-59.23	V
10573.500000	-65.59	3.1	11.0	-57.69	V

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1560.200000	-73.49	1.0	8.6	-65.89	V

The max radiated power of 1559-1610 MHz is -65.89dBm<-40dBm (-70dBW/MHz) .

There is no signal that bandwidth is less than 700 Hz bandwidth

LTE B66 Radiated Spurious Emission Results

Test Data (20MHz bandwidth 132072 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
166.500000	-90.8	0.3	5.9	-85.20	V
2200.000000	-65.18	1.1	9.0	-57.28	H
2808.500000	-64.79	1.4	10.9	-55.29	V
7251.774194	-73.54	2.2	11.4	-64.34	V
9199.500000	-66.77	3.1	10.9	-58.97	V
10575.500000	-65.39	3.1	11.0	-57.49	V

LTE B66 Radiated Spurious Emission Results

Test Data (20MHz bandwidth 132322 QPSK Mode 1RB)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
166.626000	-91.12	0.3	5.9	-85.52	H
1101.600000	-76.14	0.7	6.8	-70.04	V
2200.000000	-65.22	1.1	9.0	-57.32	H
3496.935484	-78.75	1.7	12.2	-68.25	H
7243.548387	-73.49	2.2	11.4	-64.29	V
10573.500000	-65.56	3.1	11.0	-57.66	V

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LTE B66 Radiated Spurious Emission Results**Test Data (20MHz bandwidth 132572 QPSK Mode 1RB)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
166.794000	-90.81	0.3	5.9	-85.21	H
1485.600000	-73.20	0.9	8.0	-66.10	V
2201.200000	-65.17	1.1	9.0	-57.27	H
3547.741936	-76.63	1.6	12.2	-66.03	H
7250.322581	-73.48	2.2	11.4	-64.28	V
10577.000000	-65.40	3.1	11.0	-57.50	V

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LTE B71 Radiated Spurious Emission Results**Test Data (15MHz bandwidth 133197 QPSK Mode 1RB)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
594.060000	-76.79	0.5	6.4	-70.89	V
766.365000	-72.36	0.6	6.8	-66.16	V
2200.000000	-65.16	1.1	9.0	-57.26	H
7227.580645	-73.67	2.2	11.4	-64.47	V
9199.500000	-66.89	3.3	10.9	-59.29	V
10572.500000	-65.64	3.1	11.0	-57.74	V

LTE B71 Radiated Spurious Emission Results**Test Data (15MHz bandwidth 133297 QPSK Mode 1RB)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
750.650000	-72.51	0.5	6.8	-66.21	V
1852.100000	-71.04	1.0	9.7	-62.34	H
2200.000000	-65.14	1.1	9.0	-57.24	H
5107.258065	-78.12	2.1	12.4	-67.82	V
7225.161290	-73.66	2.2	11.4	-64.46	V
10573.500000	-65.57	3.1	11.0	-57.67	V

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LTE B71 Radiated Spurious Emission Results**Test Data (15MHz bandwidth 133397 QPSK Mode 1RB)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
124.962000	-84.70	0.4	2.1	-83.00	V
1852.100000	-71.02	1.0	9.7	-62.32	H
2200.000000	-65.11	1.1	9.0	-57.21	H
7243.064516	-73.64	2.2	11.4	-64.44	V
9350.500000	-67.39	2.8	11.0	-59.19	V
10573.000000	-65.56	3.1	11.0	-57.66	V

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6.7. Band Edge

Specifications:	FCC Part 2.1051,24.238,2.1053,22.917, 27.53
DUT Serial Number:	IMEI:865357069912010
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917(a):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):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 27.53(c)(f):For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the 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, in accordance with the following:

- (1) On any frequency outside the 746–758 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;
- (2) 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;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4)
- (f) For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

According to Part 27.53(h):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,

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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.

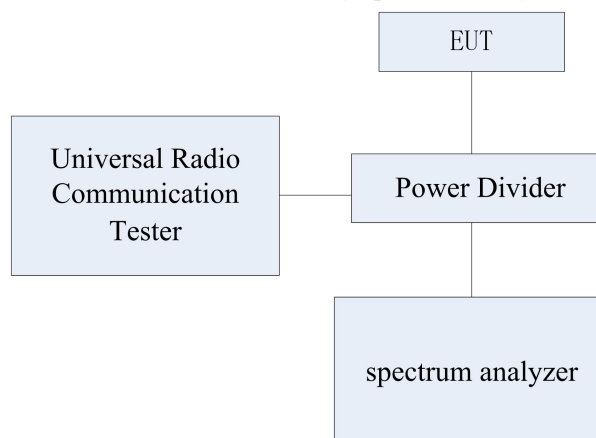
According to Part 27.53(g):For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ 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.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.28 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 emission Bandwidth.

Note1: The Band Edge test data include QPSK and 16QAM. The following test results only reflect the data of the worse mode QPSK.

Note2: In this test item, the OBW test data do only use the OBW values to calculate RBW setting for the 1RB band edge test .

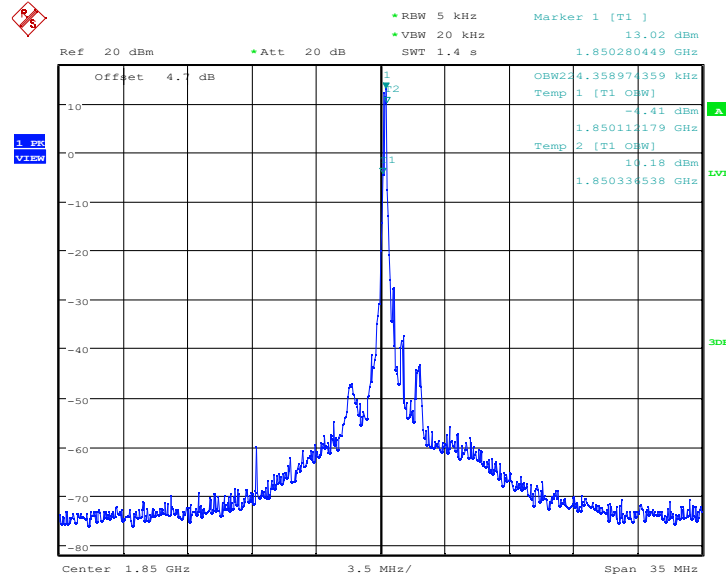
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6.7.1 Band Edge Results

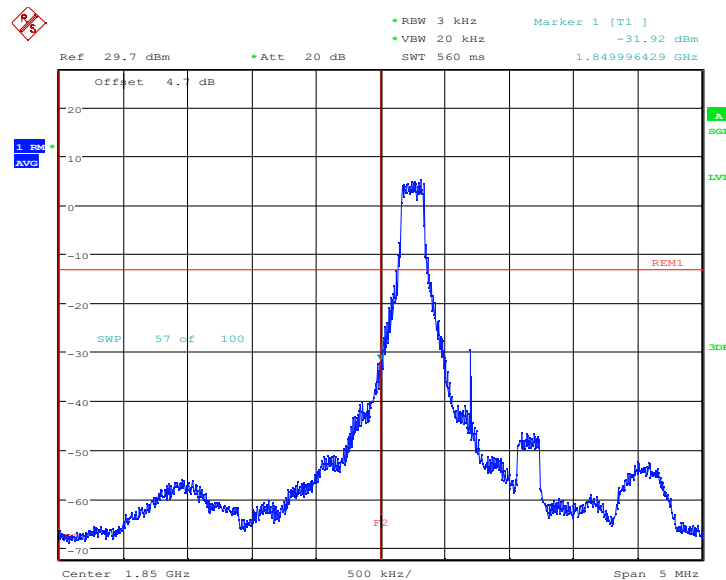
LTE band 2-1.4MHz

OBW: 1RB-LOW_offset



Date: 10.MAY.2024 09:24:41

LOW BAND EDGE BLOCK-1RB-LOW_offset

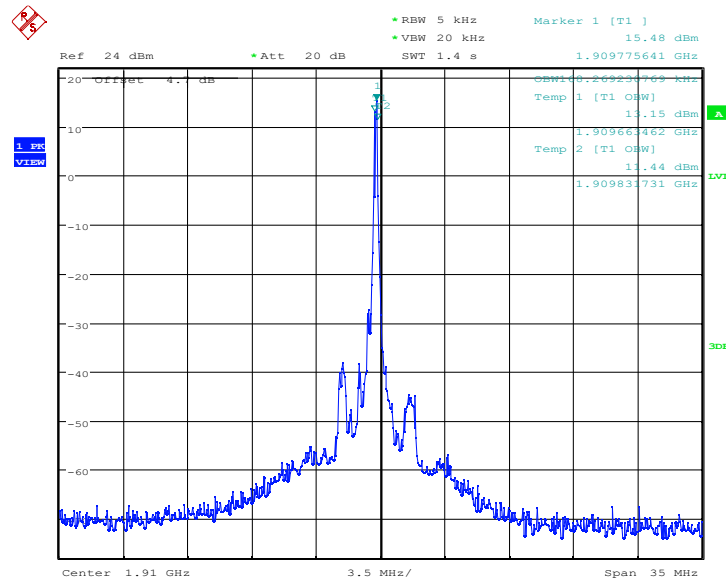


Date: 10.MAY.2024 09:25:29

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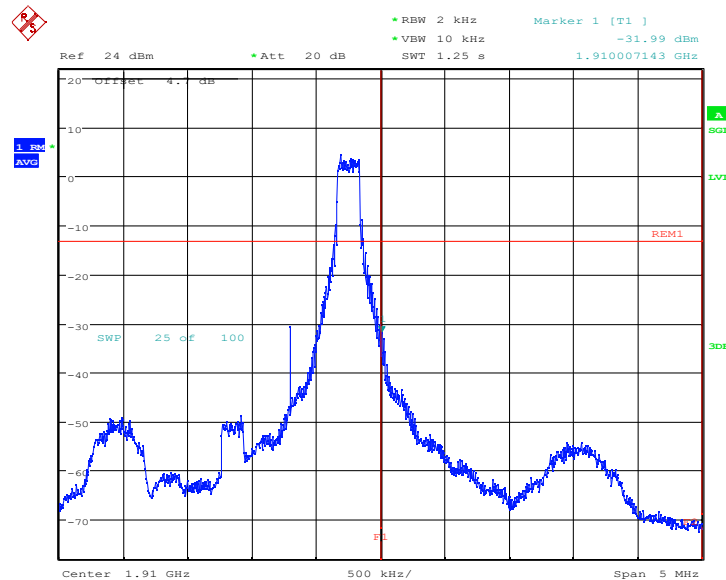
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

OBW: 1RB-HIGH_offset



Date: 10.MAY.2024 09:26:38

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

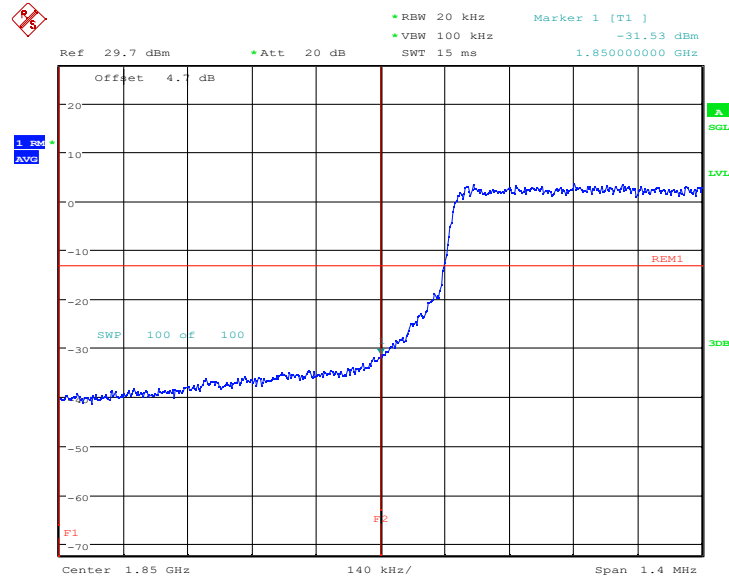


Date: 10.MAY.2024 09:27:24

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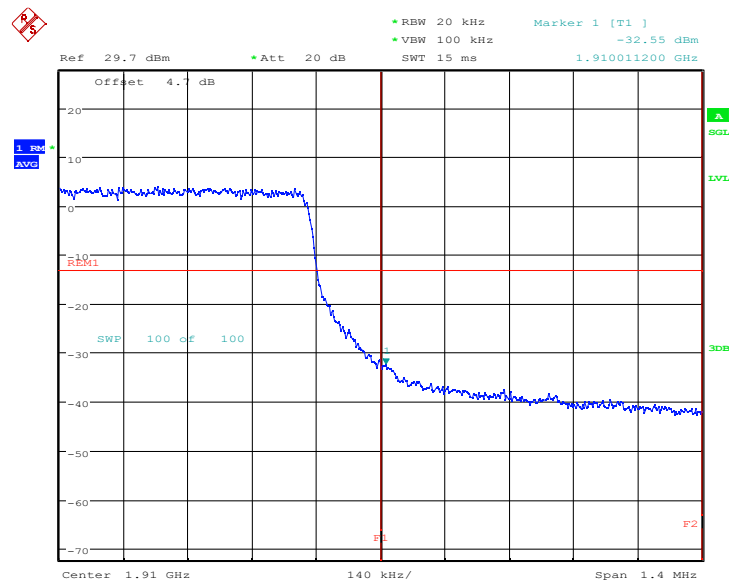
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

LOW BAND EDGE BLOCK-1.4M-100%RB



Date: 10.MAY.2024 09:26:11

HIGH BAND EDGE BLOCK-1.4M-100%RB



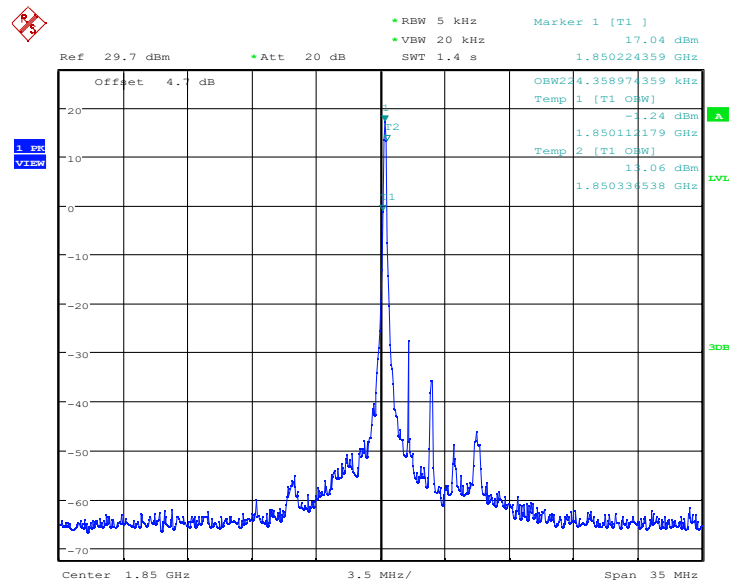
Date: 10.MAY.2024 09:28:07

LTE band 2-3MHz

OBW: 1RB-LOW_offset

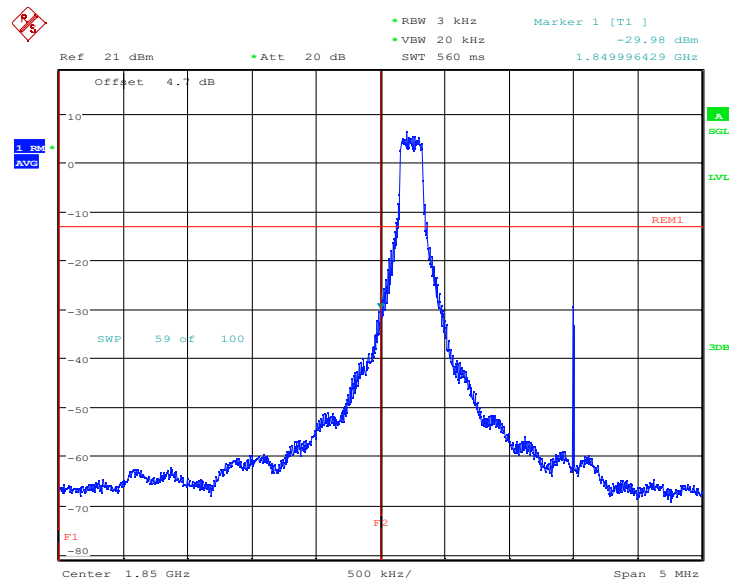
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 09:28:41

LOW BAND EDGE BLOCK-1RB-LOW_offset

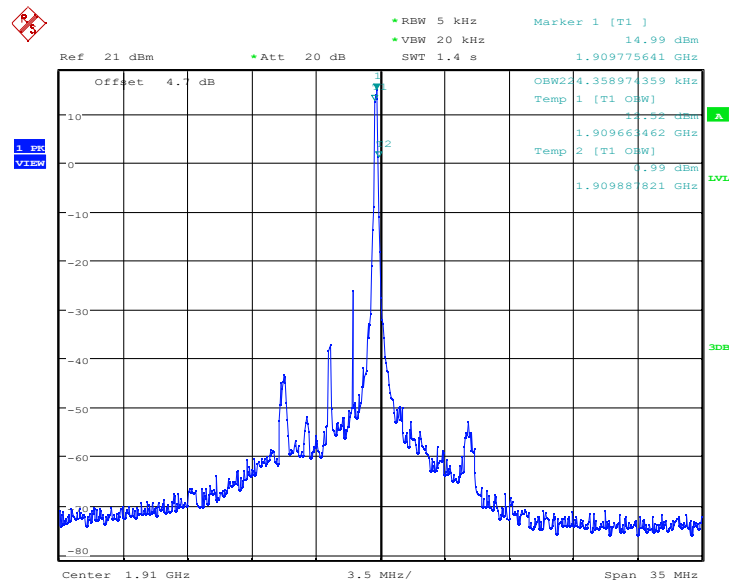


Date: 10.MAY.2024 09:29:27

OBW: 1RB-HIGH_offset

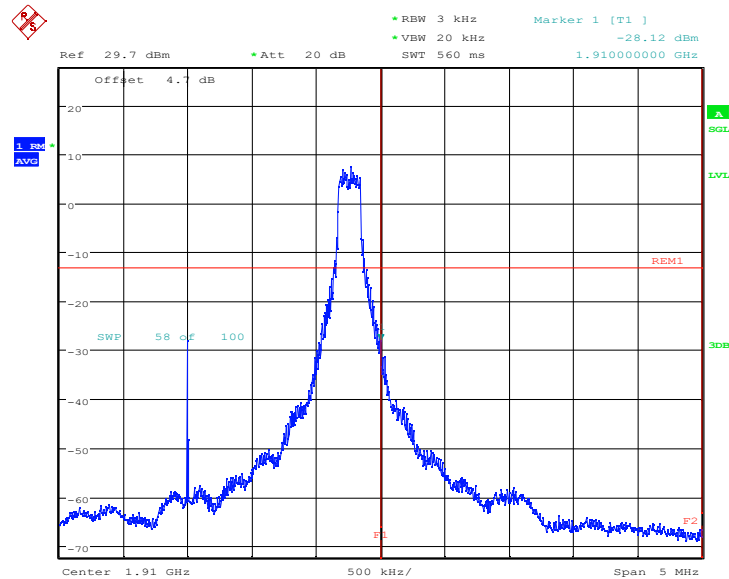
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Date: 10.MAY.2024 09:30:43

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

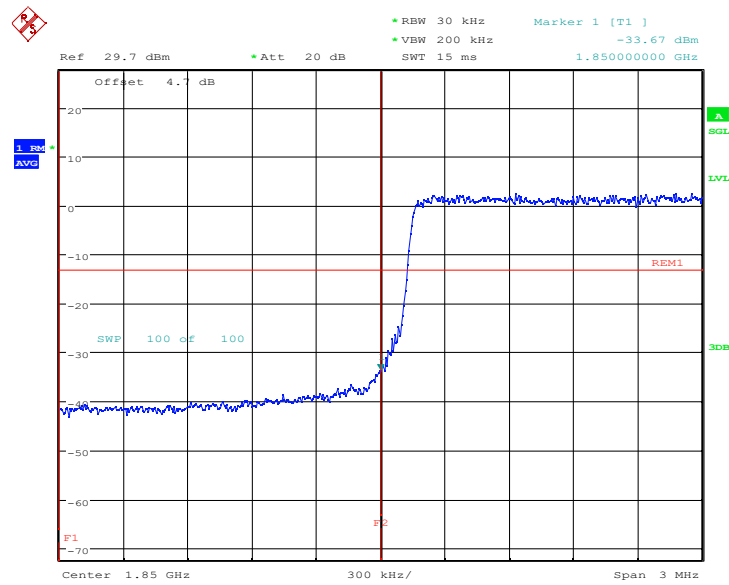


Date: 10.MAY.2024 09:31:31

LOW BAND EDGE BLOCK-3M-100%RB

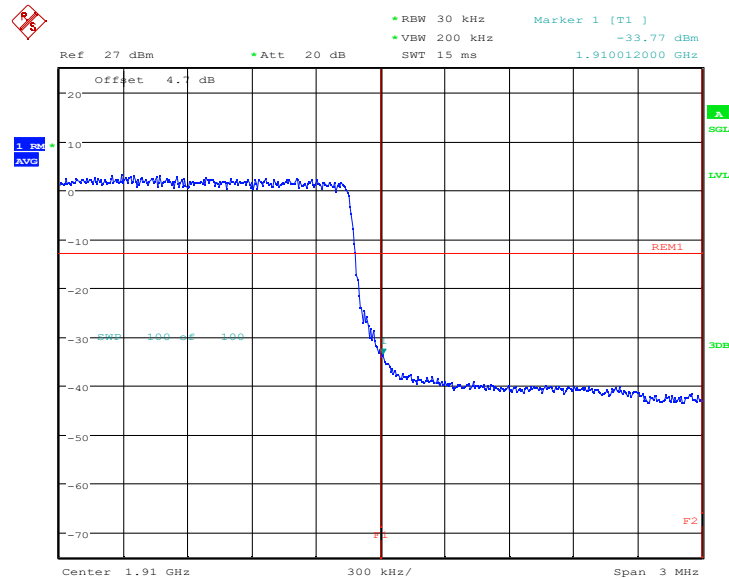
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Date: 10.MAY.2024 09:30:10

HIGH BAND EDGE BLOCK-3M-100%RB



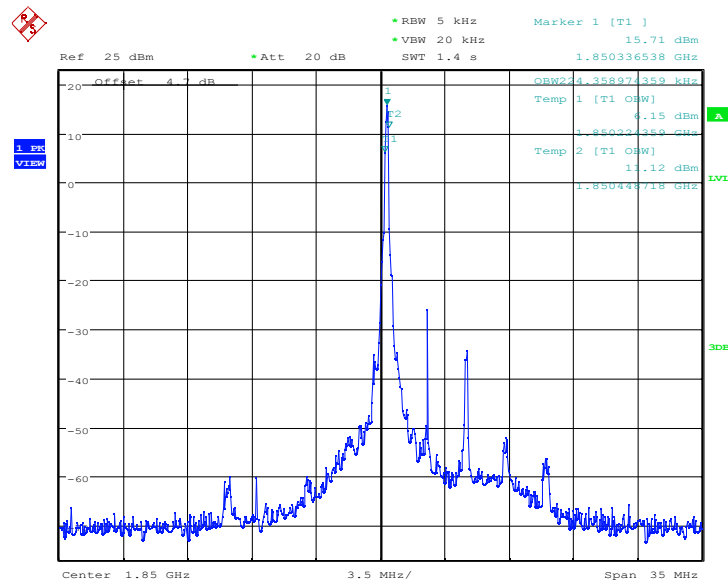
Date: 10.MAY.2024 09:32:16

LTE band 2-5MHz

OBW: 1RB-LOW_offset

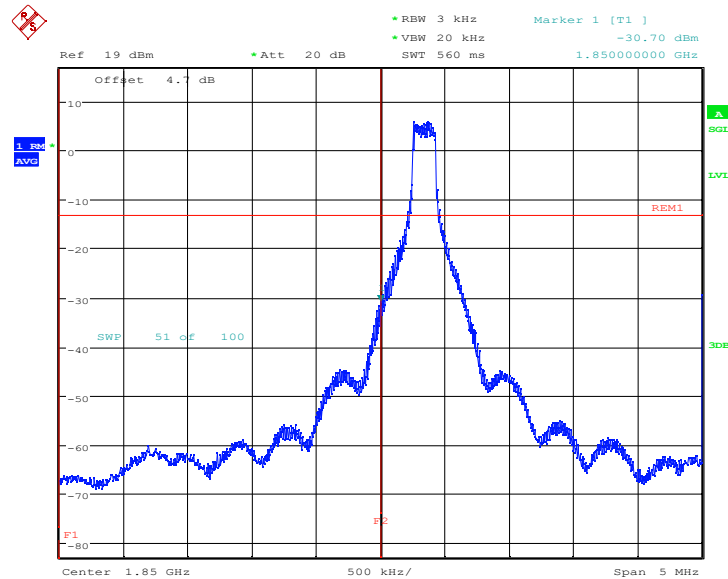
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 09:32:50

LOW BAND EDGE BLOCK-1RB-LOW_offset

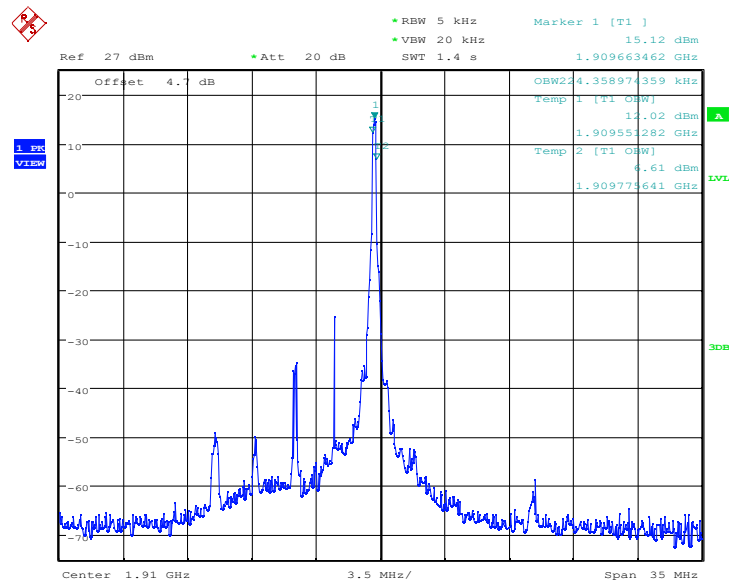


Date: 10.MAY.2024 09:33:34

OBW: 1RB-HIGH_offset

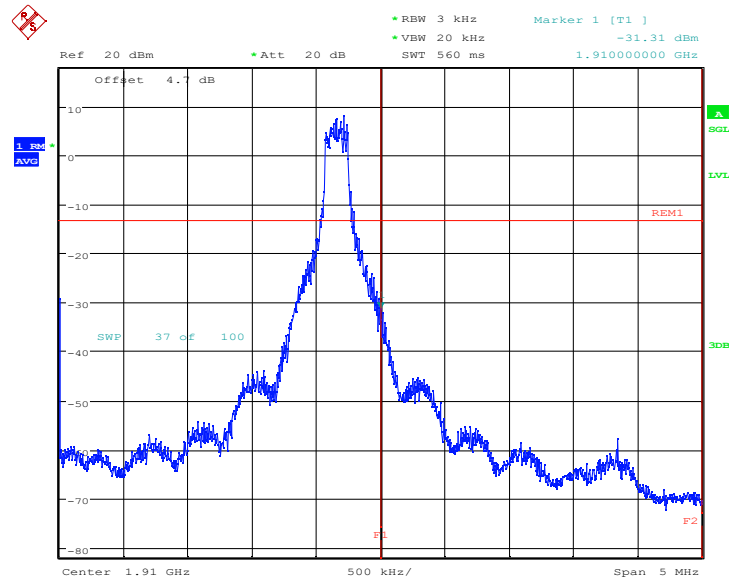
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Date: 10.MAY.2024 09:34:54

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

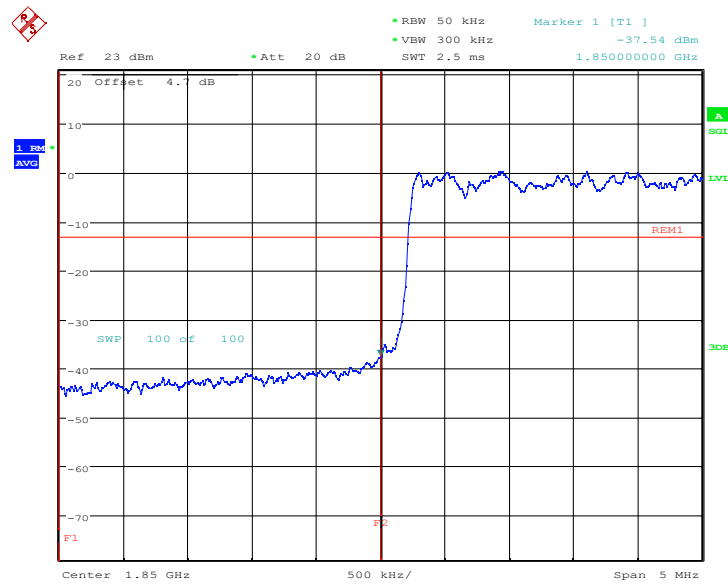


Date: 10.MAY.2024 09:35:43

LOW BAND EDGE BLOCK-5M-100%RB

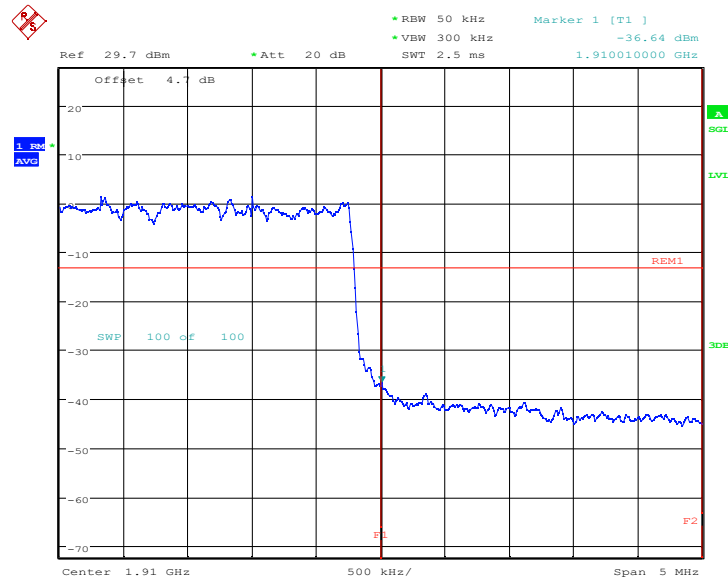
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 09:34:16

HIGH BAND EDGE BLOCK-5M-100%RB



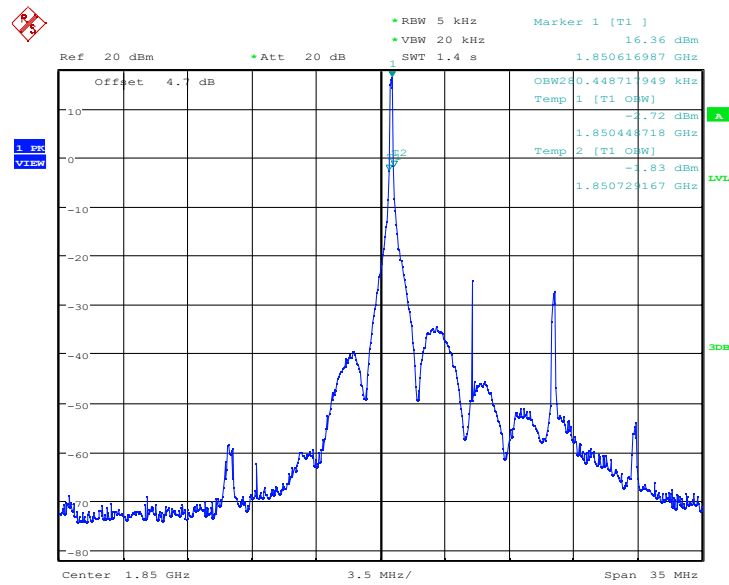
Date: 10.MAY.2024 09:36:54

LTE band 2-10MHz

OBW: 1RB-LOW_offset

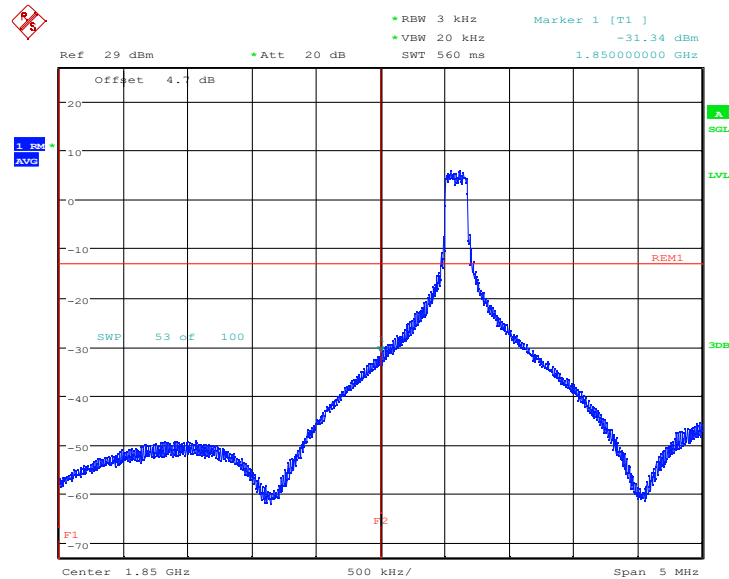
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Date: 10.MAY.2024 09:37:50

LOW BAND EDGE BLOCK-1RB-LOW_offset

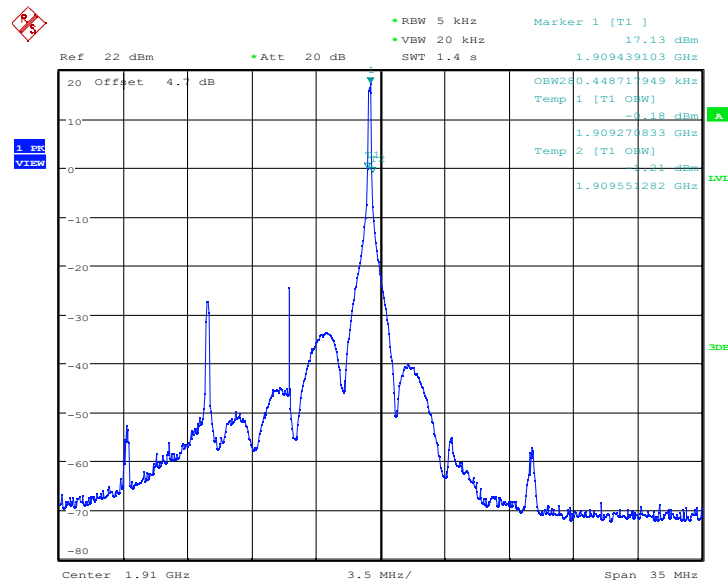


Date: 10.MAY.2024 09:38:37

OBW: 1RB-HIGH_offset

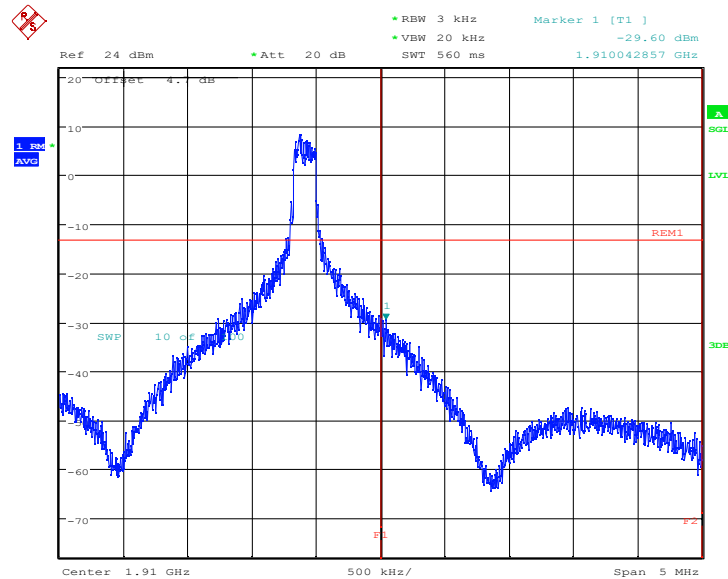
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Date: 10.MAY.2024 09:40:37

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 10.MAY.2024 09:42:10

LOW BAND EDGE BLOCK-10M-100%RB

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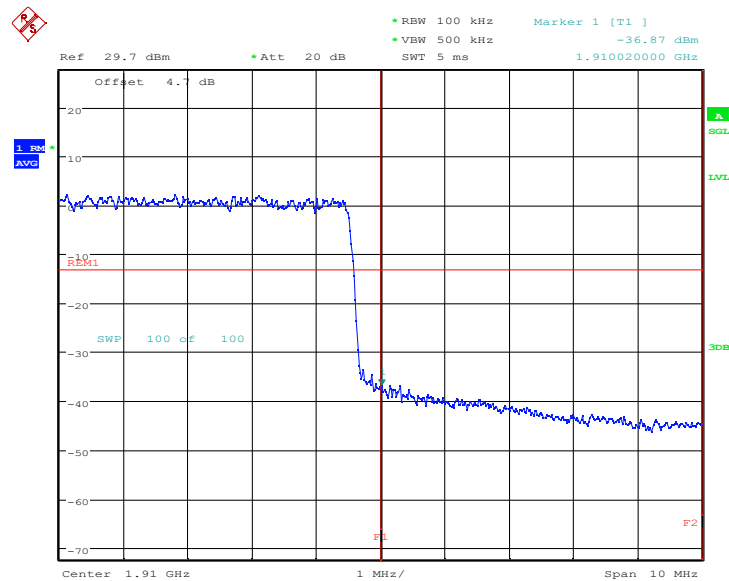
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



The screenshot displays a Spectrum Analyzer interface with the following details:

- Top Status Bar:**
 - Ref: 29.7 dBm
 - Att: 20 dB
 - RBW: 100 kHz
 - VBW: 500 kHz
 - SWT: 5 ms
 - Marker 1 [T1]: -35.29 dBm
 - Frequency: 1.849860000 GHz
- Plot Area:**
 - Offset: 4.1 dB
 - Y-axis: Power in dBm, ranging from -70 to 20.
 - X-axis: Frequency in MHz, ranging from 1.84 to 1.86.
 - Signal: A blue trace showing a signal that rises sharply at approximately 1.85 GHz.
 - Grid: A 10x10 grid is visible.
 - Annotations: "F1" at the bottom left, "F2" at the bottom right, and "1" near the rising edge of the signal.
- Bottom Status Bar:**
 - Center: 1.85 GHz
 - Span: 10 MHz
 - Resolution: 1 Hz
 - Average: AVG

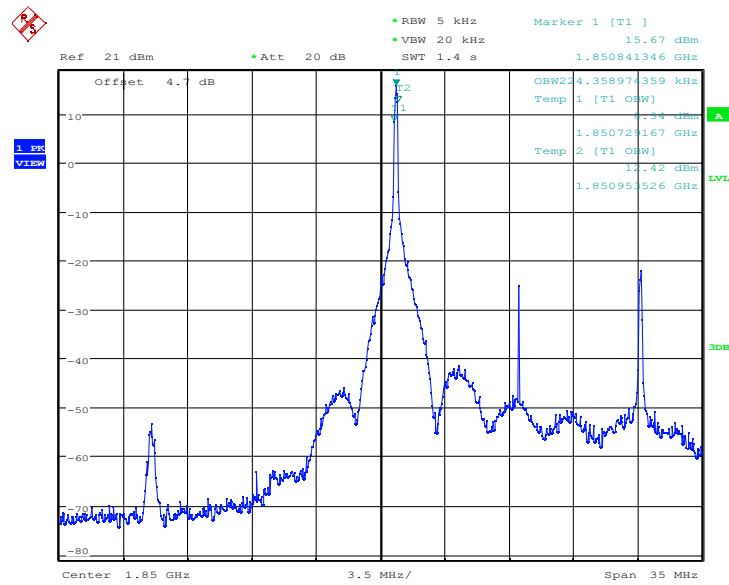
HIGH BAND EDGE BLOCK-10M-100%RB



LTE band 2-15MHz

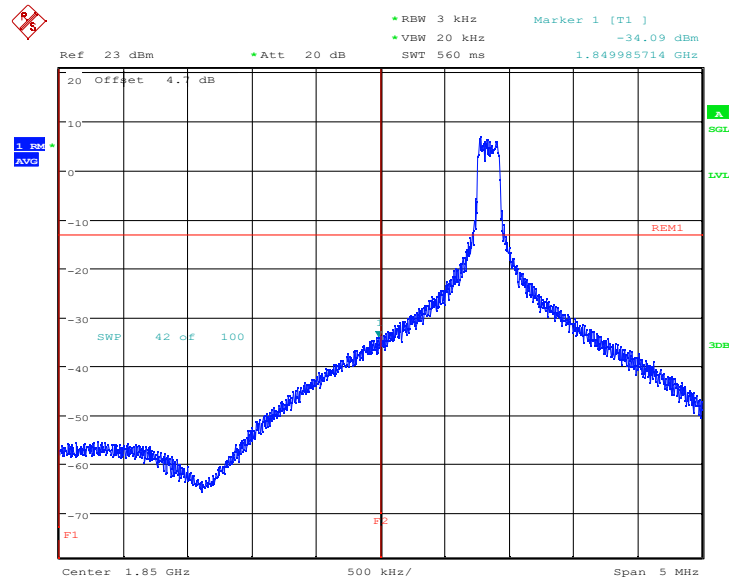
OBW: 1RB-LOW_offset

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



Date: 10.MAY.2024 09:44:09

LOW BAND EDGE BLOCK-1RB-LOW_offset

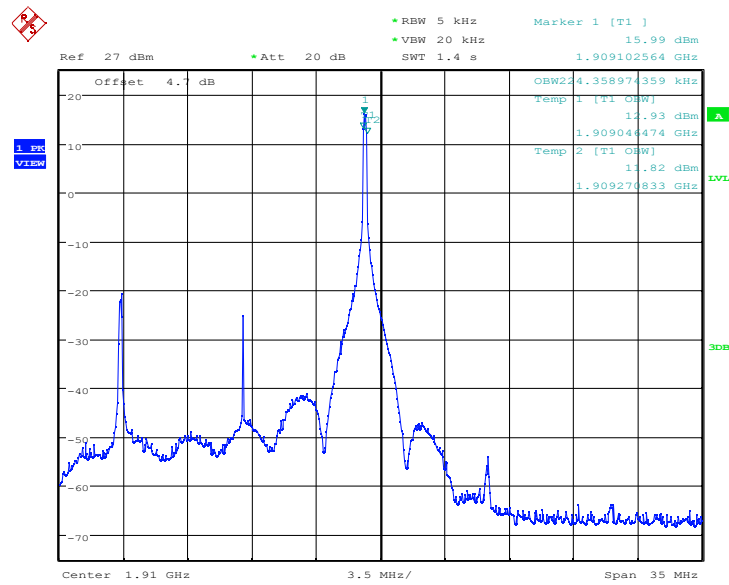


Date: 10.MAY.2024 09:44:53

OBW: 1RB-HIGH_offset

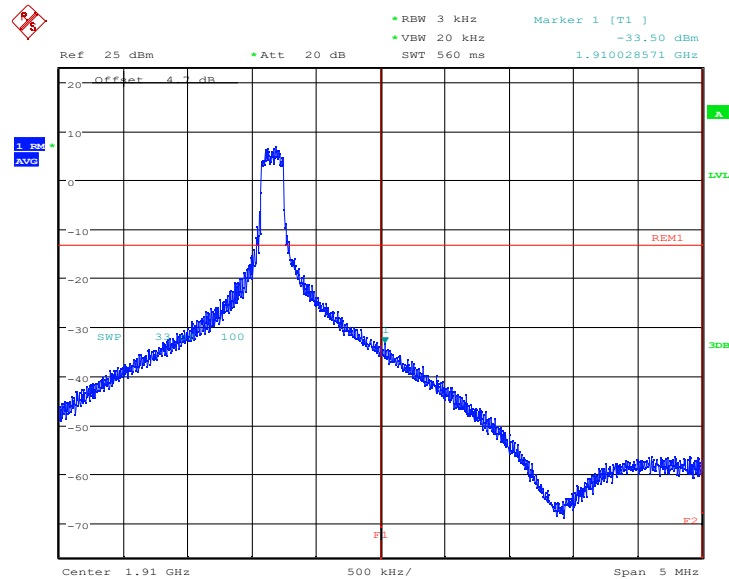
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 09:46:54

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 10.MAY.2024 09:47:39

LOW BAND EDGE BLOCK-15M-100%RB

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Ref 29.7 dBm Att 20 dB RBW 200 kHz VBW 1 MHz SWT 2.5 ms Marker 1 [T1] -34.29 dBm 1.848380000 GHz

Offset 4.1 dB

1 sec AVG

SWP 100 dB 100

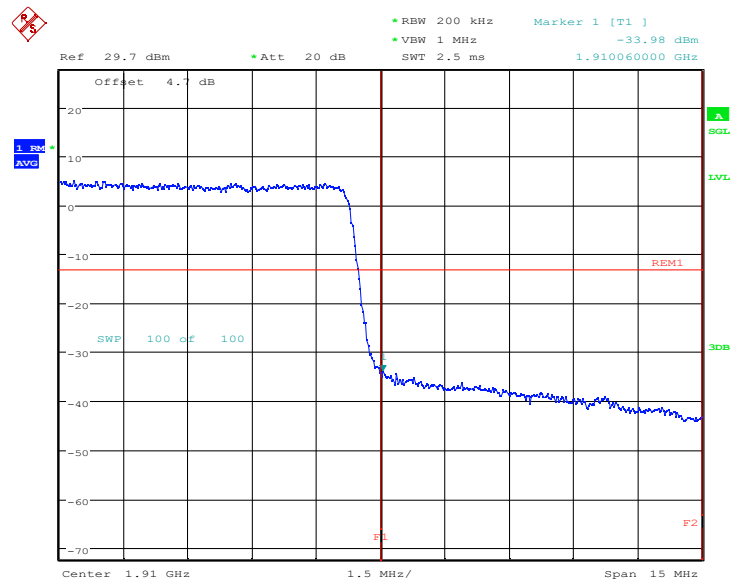
F1

F2

REM1

Center 1.85 GHz 1.5 MHz/ Span 15 MHz

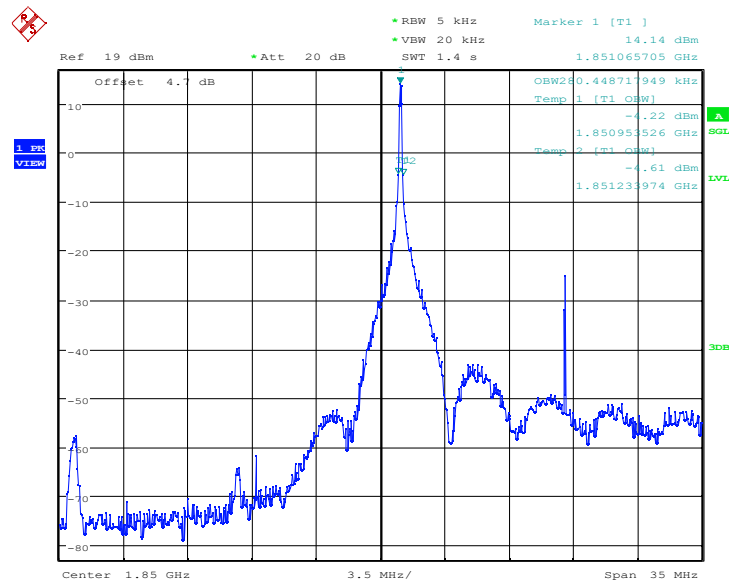
HIGH BAND EDGE BLOCK-15M-100%RB



LTE band 2-20MHz

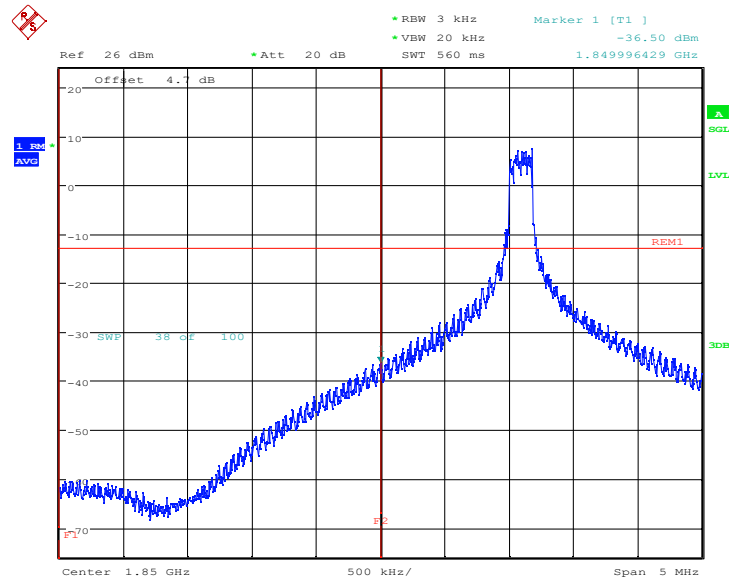
OBW: 1RB-LOW_offset

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Date: 10.MAY.2024 09:49:43

LOW BAND EDGE BLOCK-1RB-LOW_offset

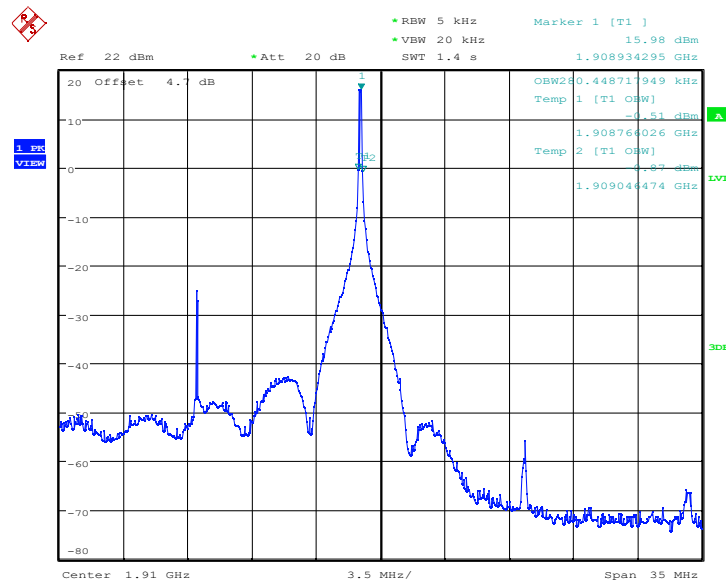


Date: 10.MAY.2024 09:50:31

OBW: 1RB-HIGH_offset

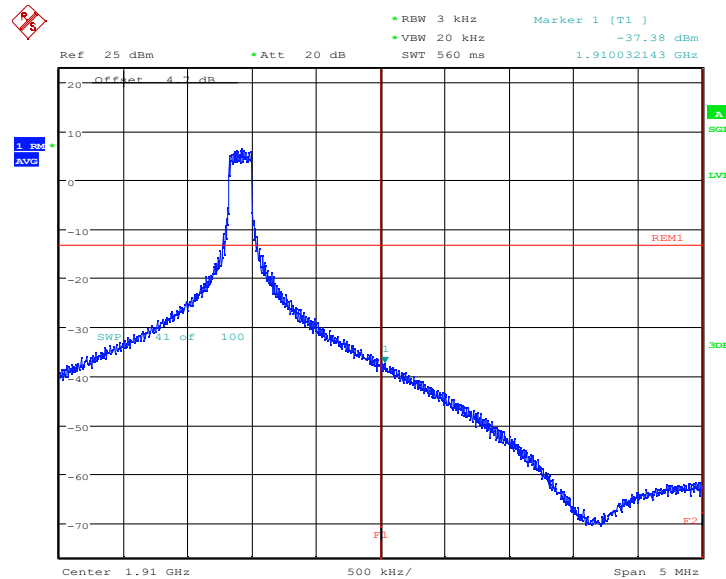
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Date: 10.MAY.2024 09:57:35

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

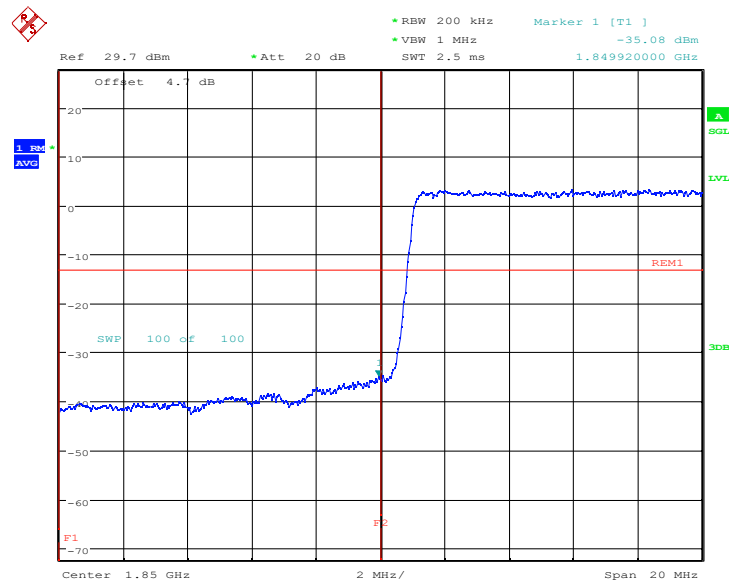


Date: 10.MAY.2024 09:58:19

LOW BAND EDGE BLOCK-20M-100%RB

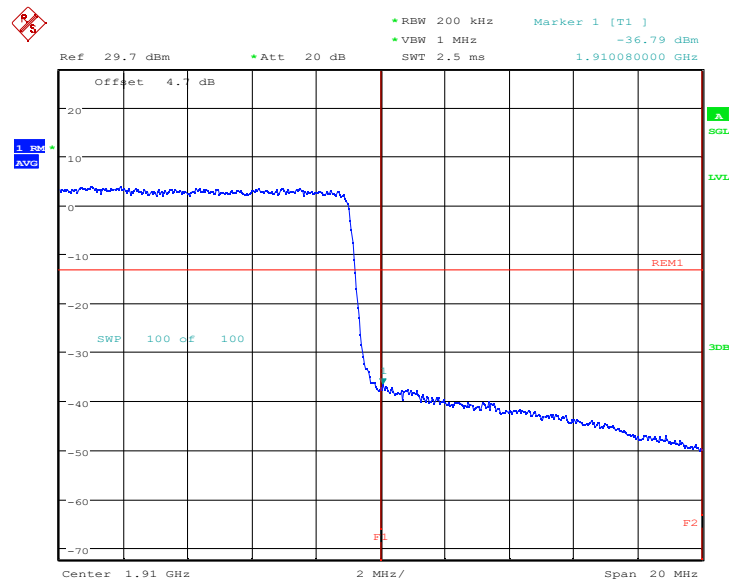
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 09:51:17

HIGH BAND EDGE BLOCK-20M-100%RB



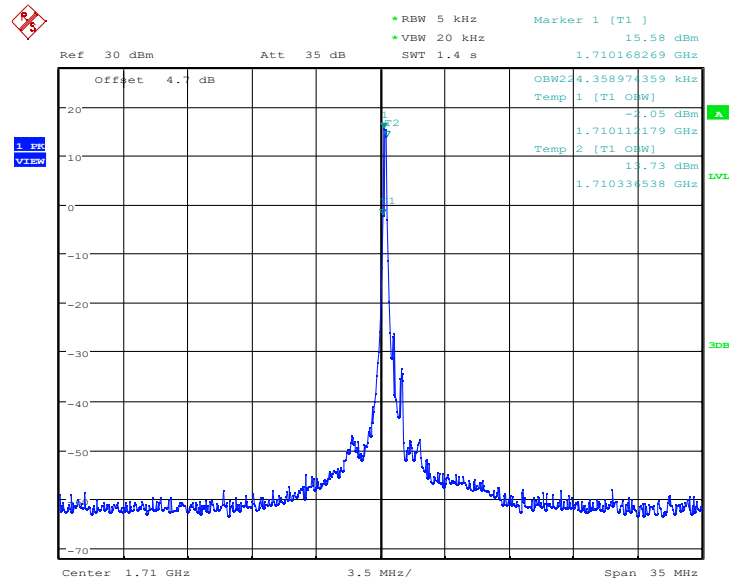
Date: 10.MAY.2024 09:54:12

LTE band 4-1.4MHz

OBW: 1RB-LOW_offset

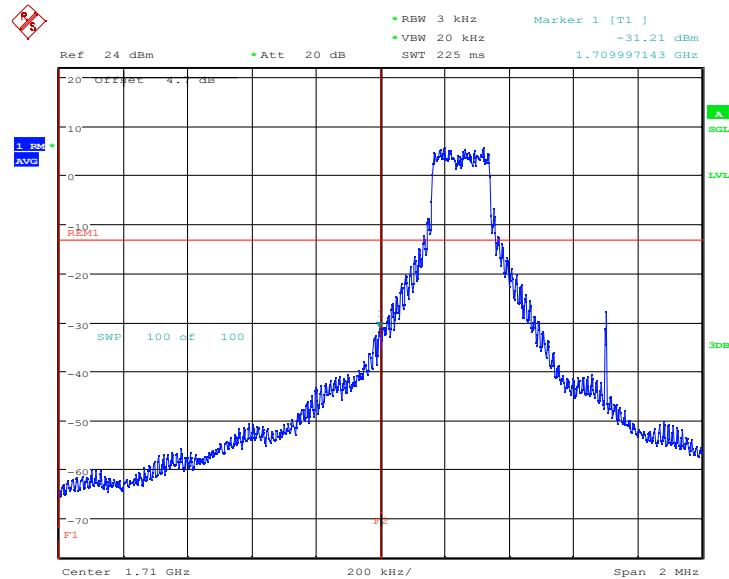
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Date: 9.MAY.2024 14:23:54

LOW BAND EDGE BLOCK-1RB-LOW_offset

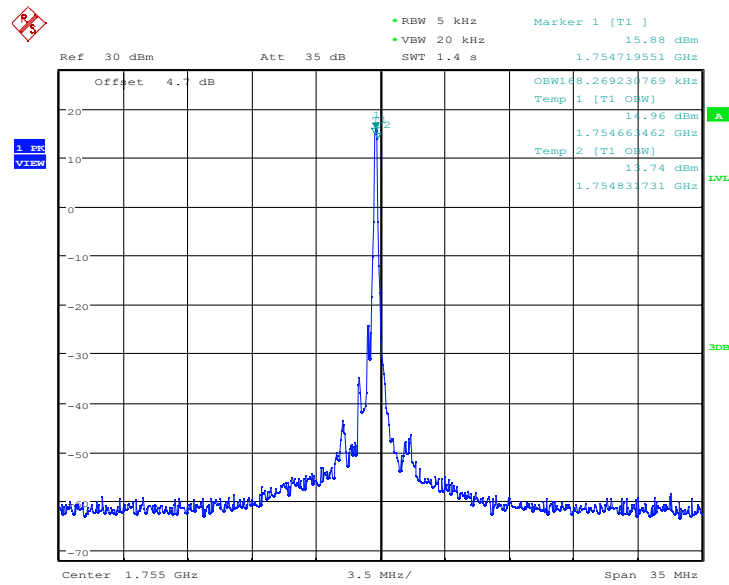


Date: 9.MAY.2024 14:25:00

OBW: 1RB-HIGH_offset

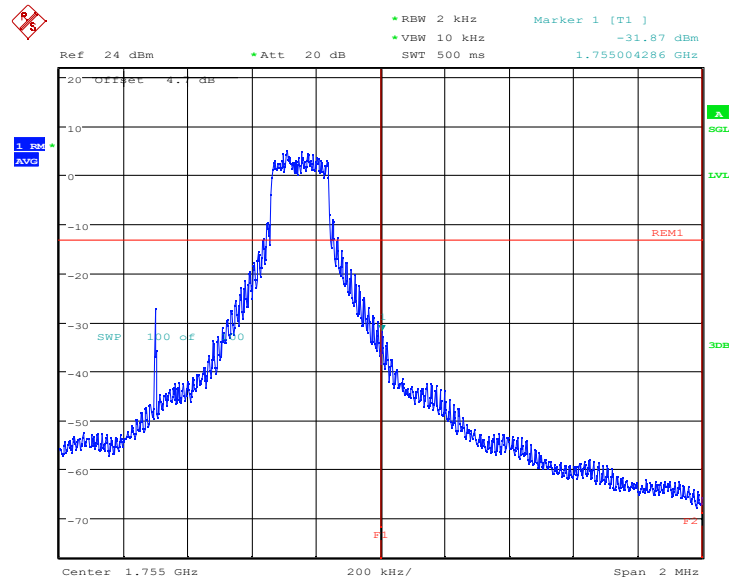
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Date: 9.MAY.2024 14:26:13

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

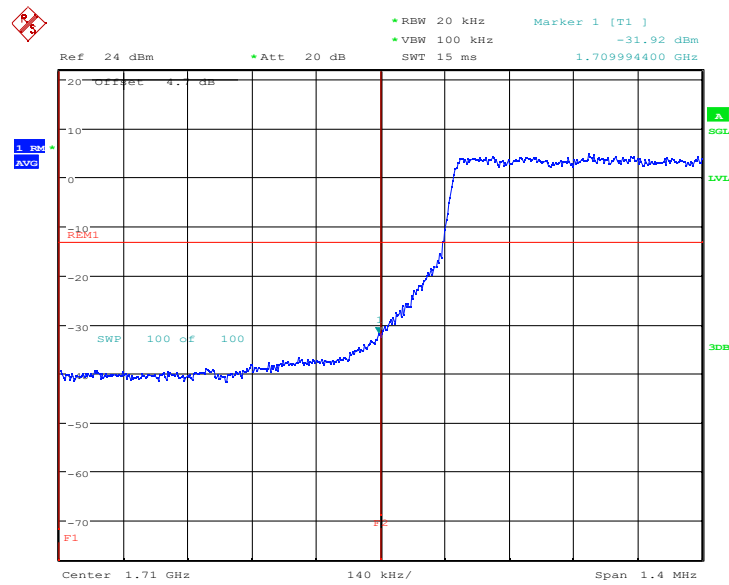


Date: 9.MAY.2024 14:27:42

LOW BAND EDGE BLOCK-1.4M-100%RB

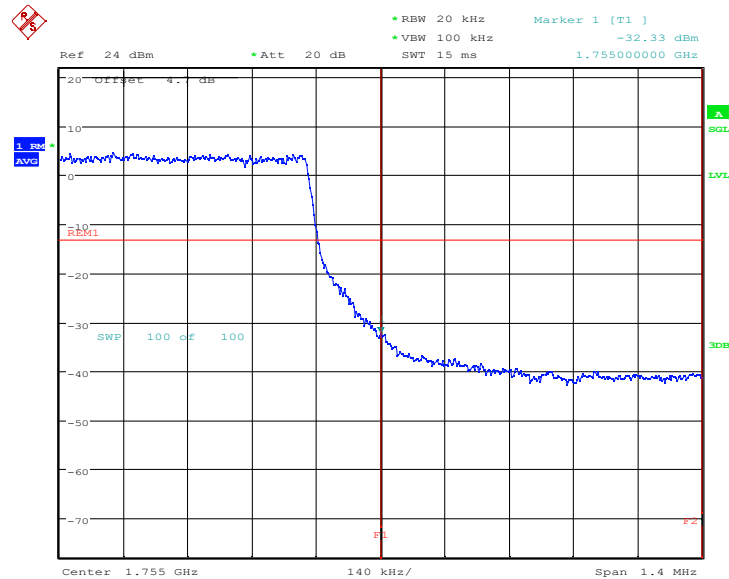
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Date: 9.MAY.2024 14:25:47

HIGH BAND EDGE BLOCK-1.4M-100%RB



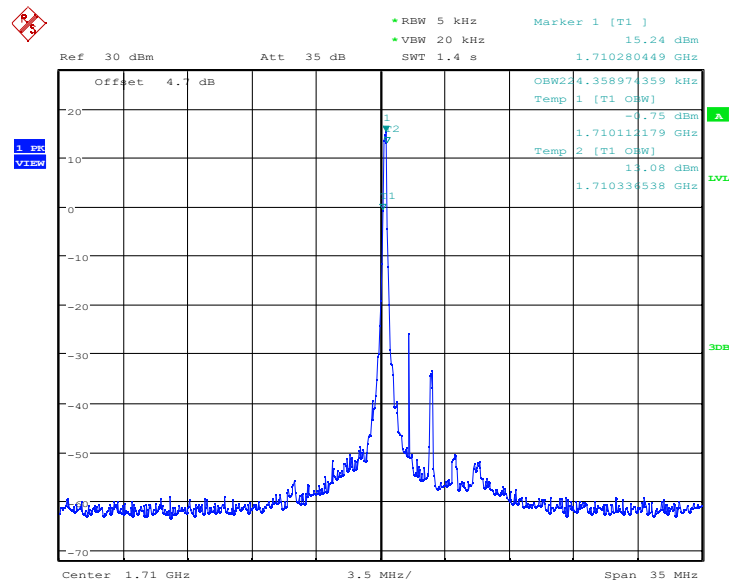
Date: 9.MAY.2024 14:28:25

LTE band 4-3MHz

OBW: 1RB-LOW_offset

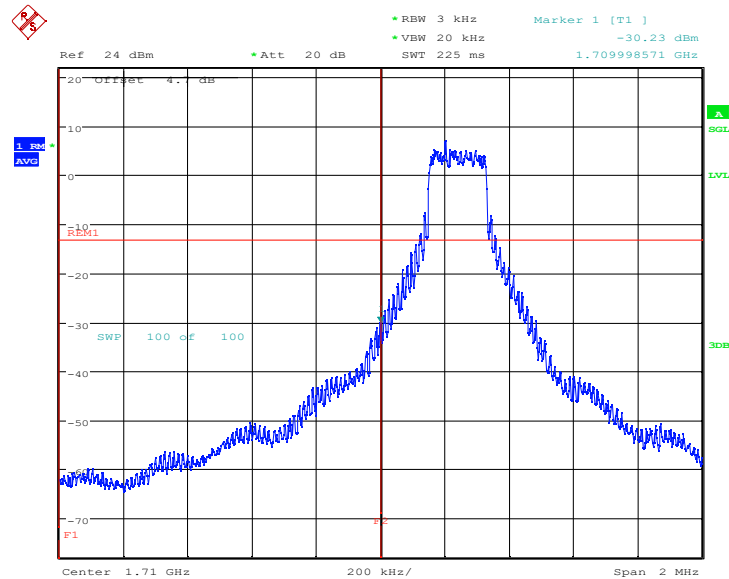
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Date: 9.MAY.2024 14:28:58

LOW BAND EDGE BLOCK-1RB-LOW_offset

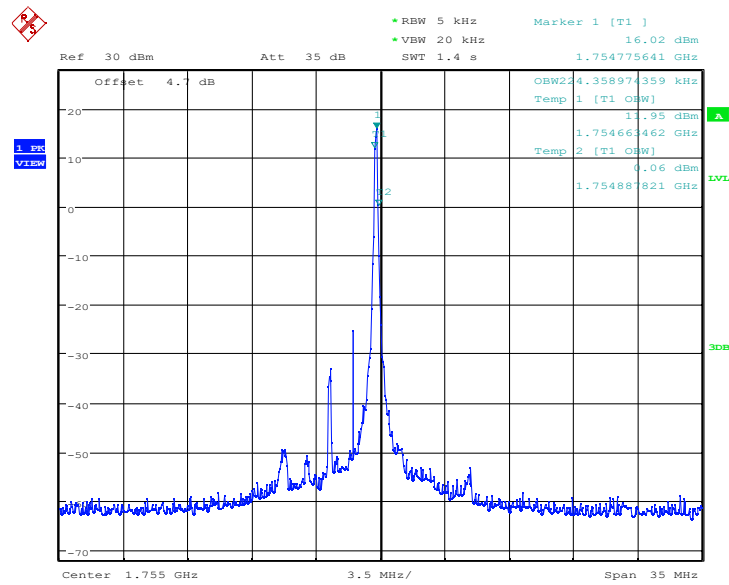


Date: 9.MAY.2024 14:30:01

OBW: 1RB-HIGH_offset

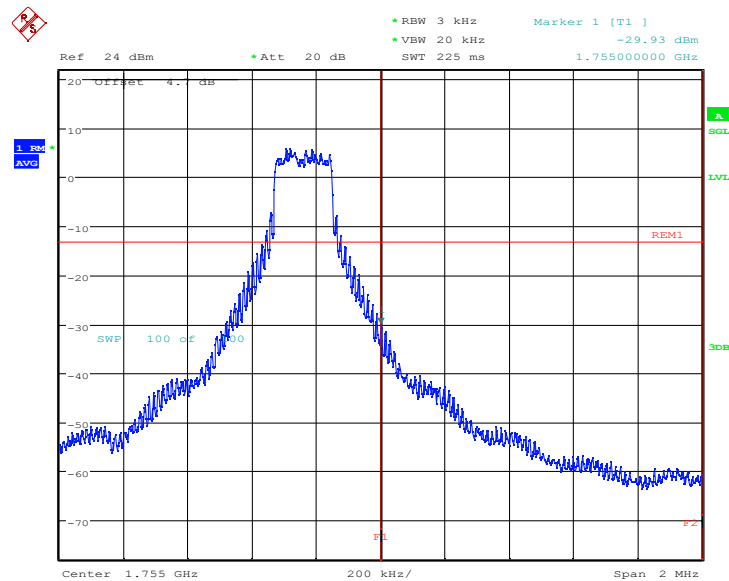
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Date: 9.MAY.2024 14:31:12

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

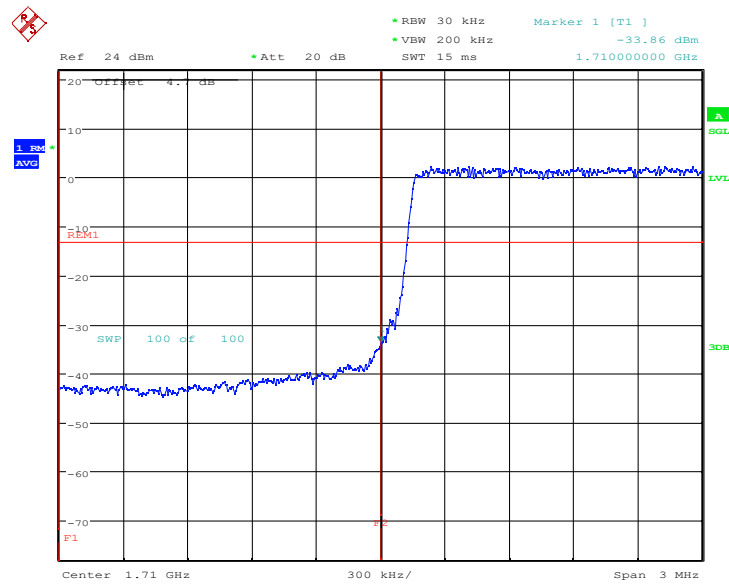


Date: 9.MAY.2024 14:32:13

LOW BAND EDGE BLOCK-3M-100%RB

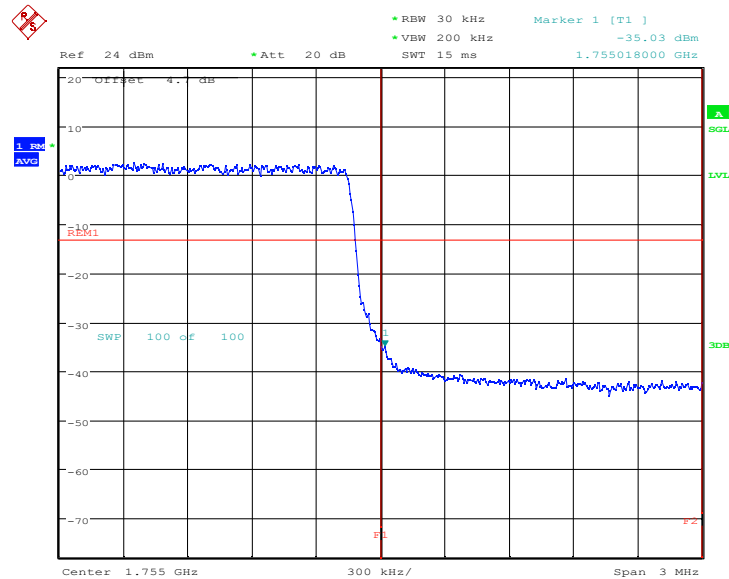
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Date: 9.MAY.2024 14:30:46

HIGH BAND EDGE BLOCK-3M-100%RB



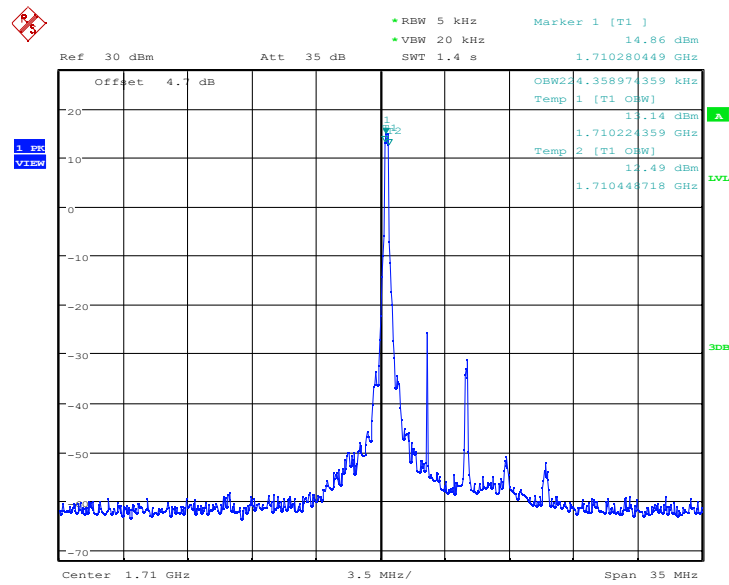
Date: 9.MAY.2024 14:32:56

LTE band 4-5MHz

OBW: 1RB-LOW_offset

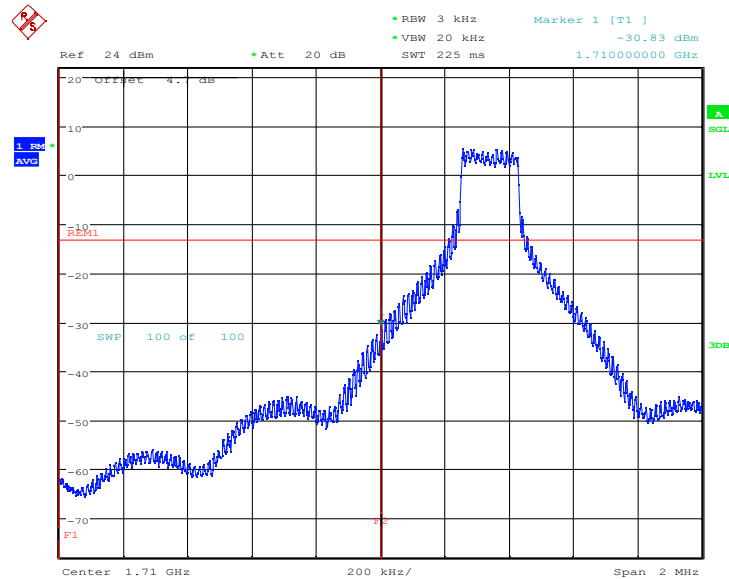
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Date: 9.MAY.2024 14:33:30

LOW BAND EDGE BLOCK-1RB-LOW_offset

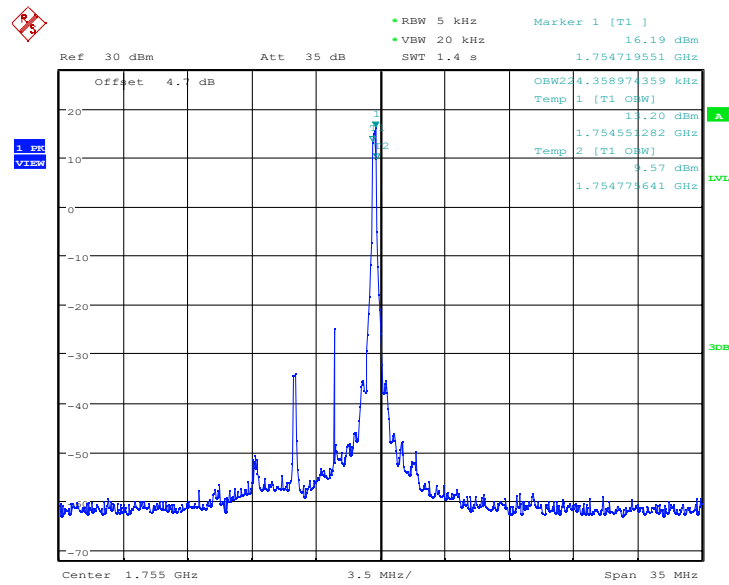


Date: 9.MAY.2024 14:34:33

OBW: 1RB-HIGH_offset

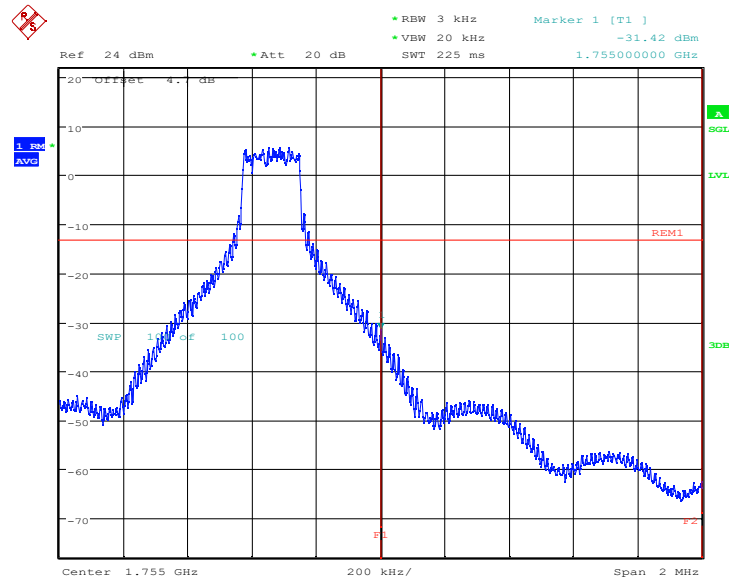
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 14:35:43

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

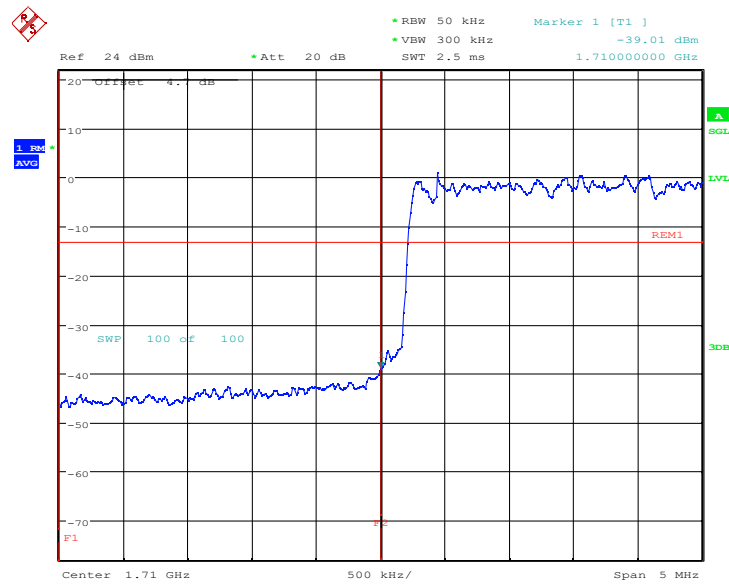


Date: 9.MAY.2024 14:36:47

LOW BAND EDGE BLOCK-5M-100%RB

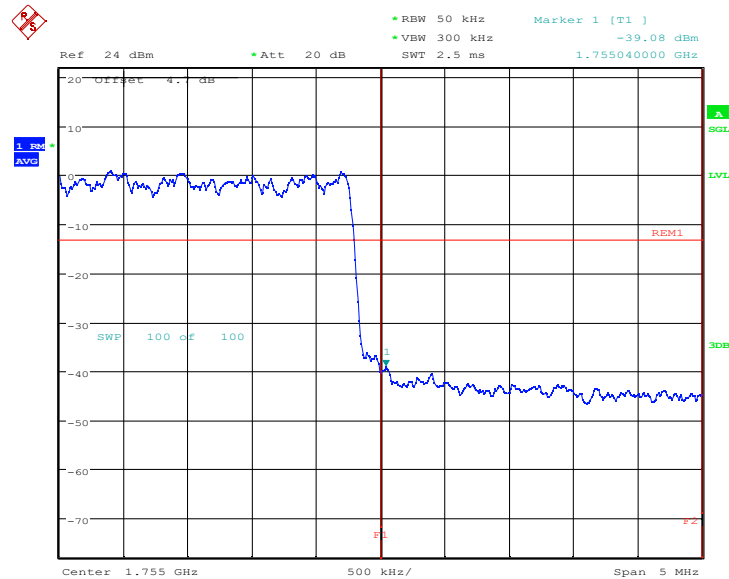
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Date: 9.MAY.2024 14:35:17

HIGH BAND EDGE BLOCK-5M-100%RB



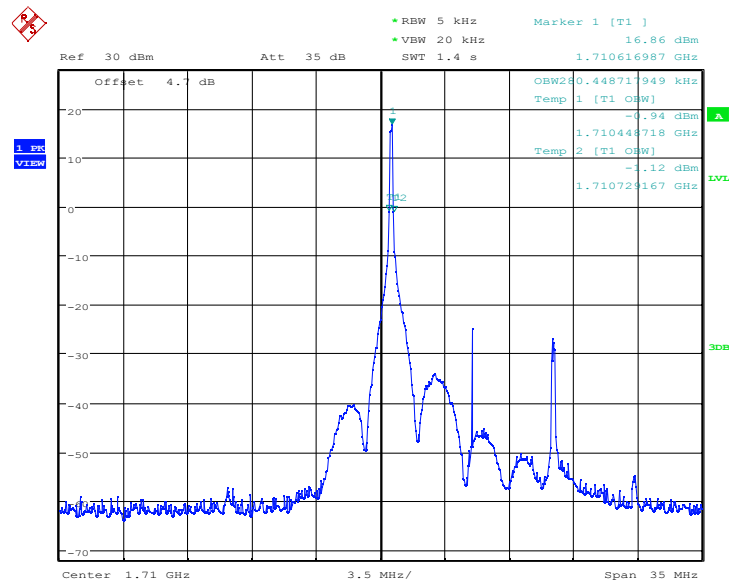
Date: 9.MAY.2024 14:37:29

LTE band 4-10MHz

OBW: 1RB-LOW_offset

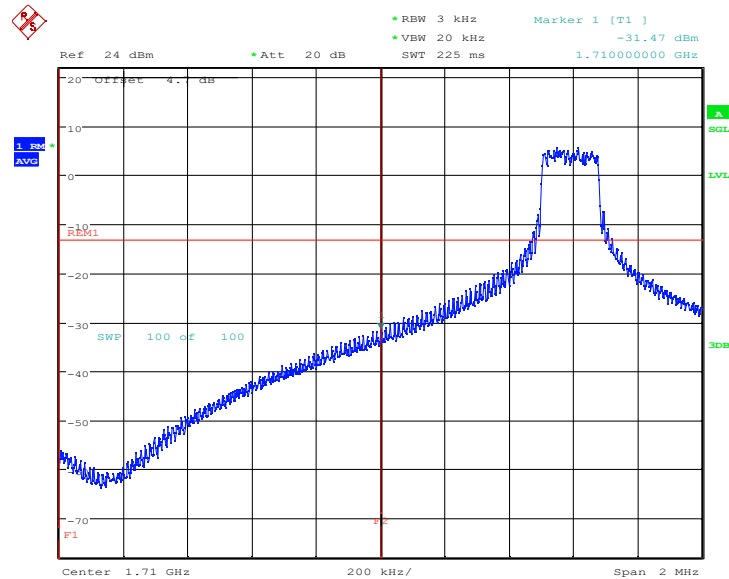
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 14:38:02

LOW BAND EDGE BLOCK-1RB-LOW_offset

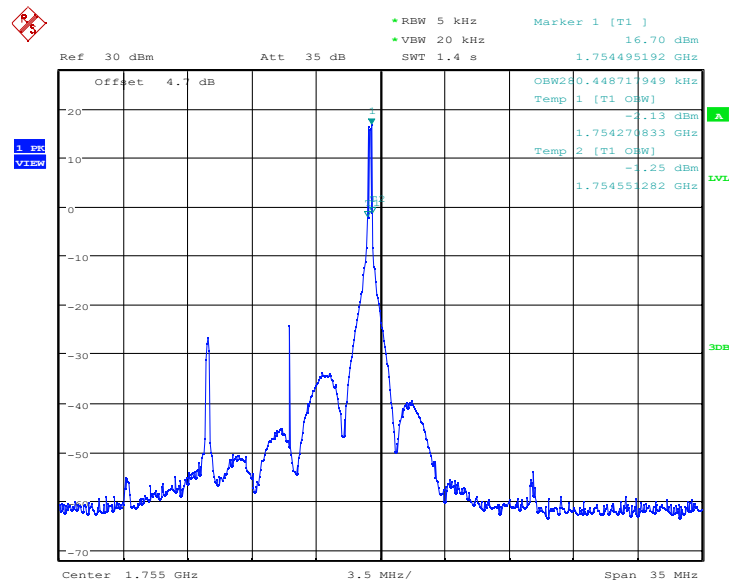


Date: 9.MAY.2024 14:39:06

OBW: 1RB-HIGH_offset

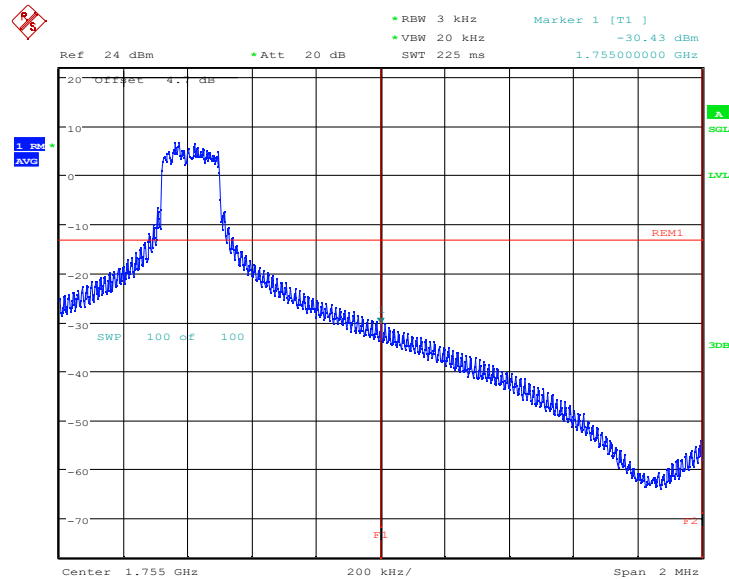
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Date: 9.MAY.2024 14:40:15

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

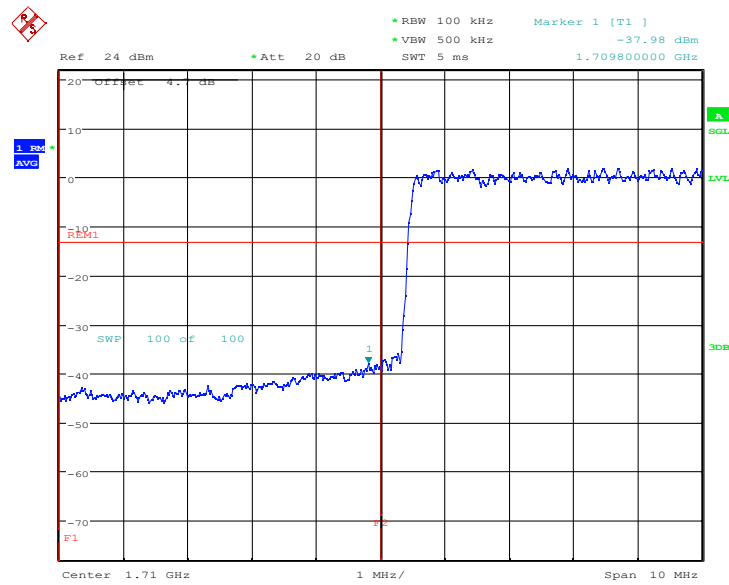


Date: 9.MAY.2024 14:41:17

LOW BAND EDGE BLOCK-10M-100%RB

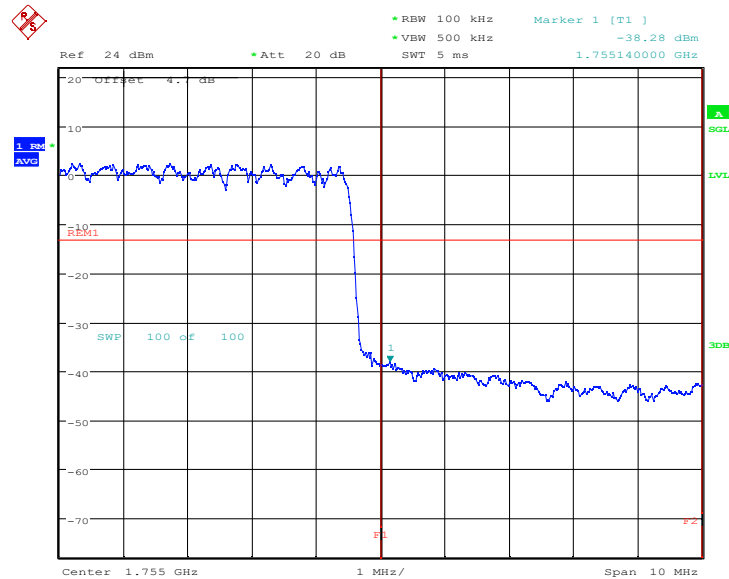
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Date: 9.MAY.2024 14:39:49

HIGH BAND EDGE BLOCK-10M-100%RB



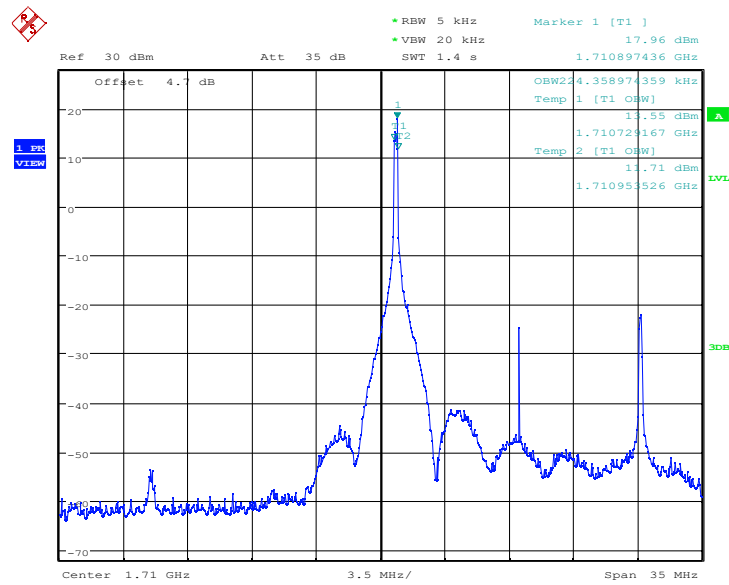
Date: 9.MAY.2024 14:42:00

LTE band 4-15MHz

OBW: 1RB-LOW_offset

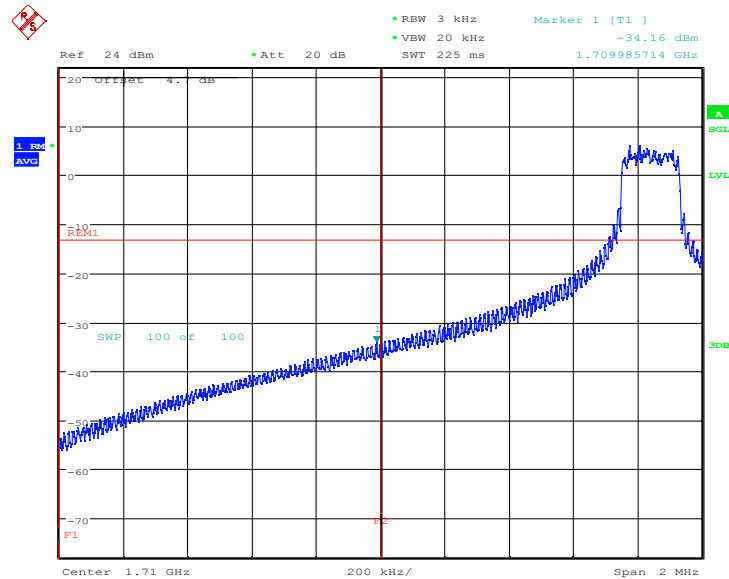
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Date: 9.MAY.2024 14:42:35

LOW BAND EDGE BLOCK-1RB-LOW_offset

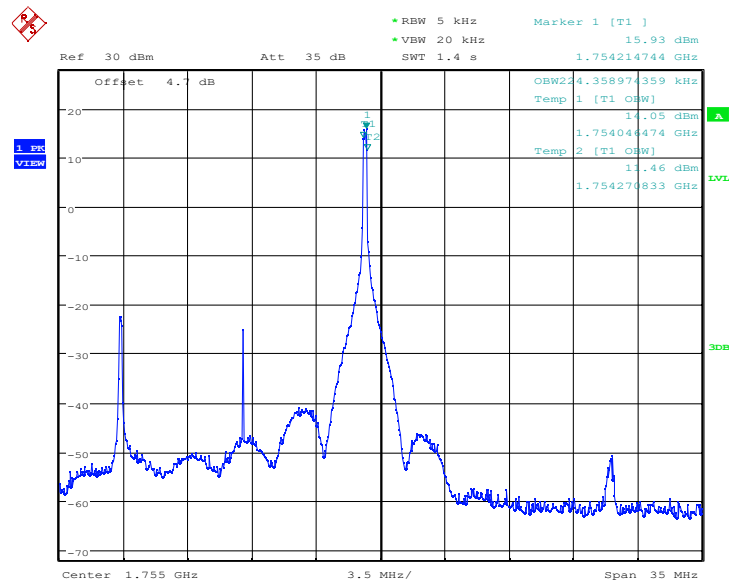


Date: 9.MAY.2024 14:43:38

OBW: 1RB-HIGH_offset

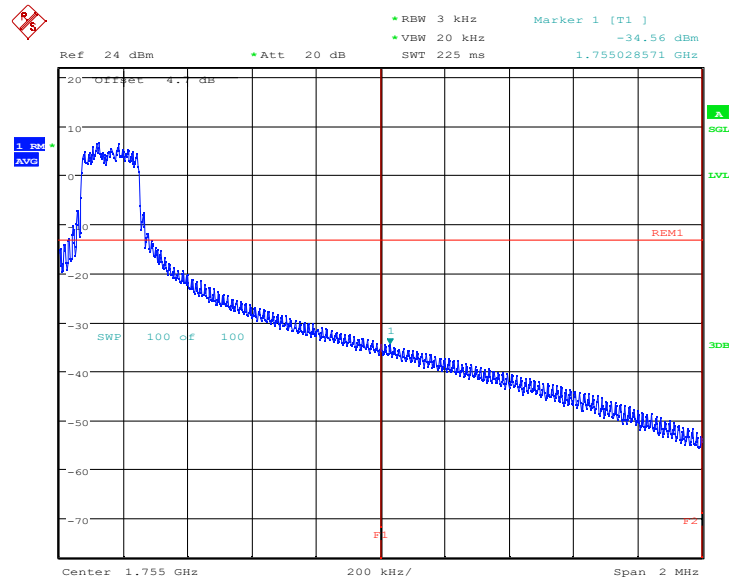
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Date: 9.MAY.2024 14:50:31

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

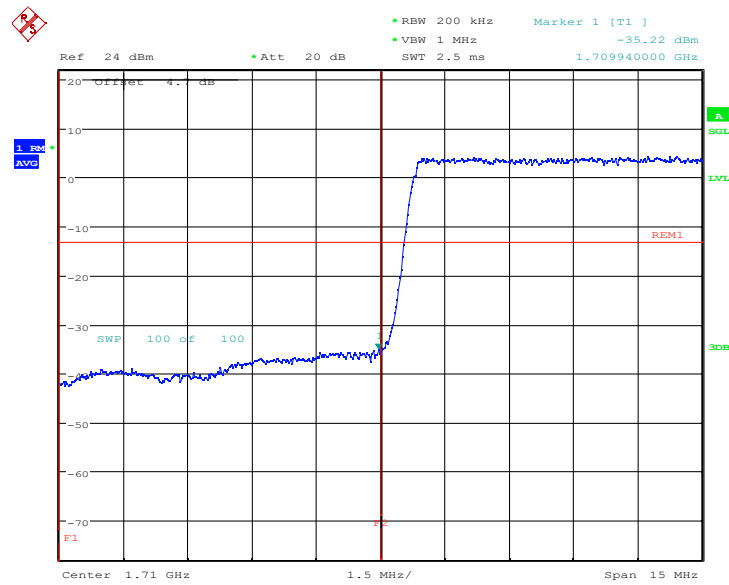


Date: 9.MAY.2024 14:51:33

LOW BAND EDGE BLOCK-15M-100%RB

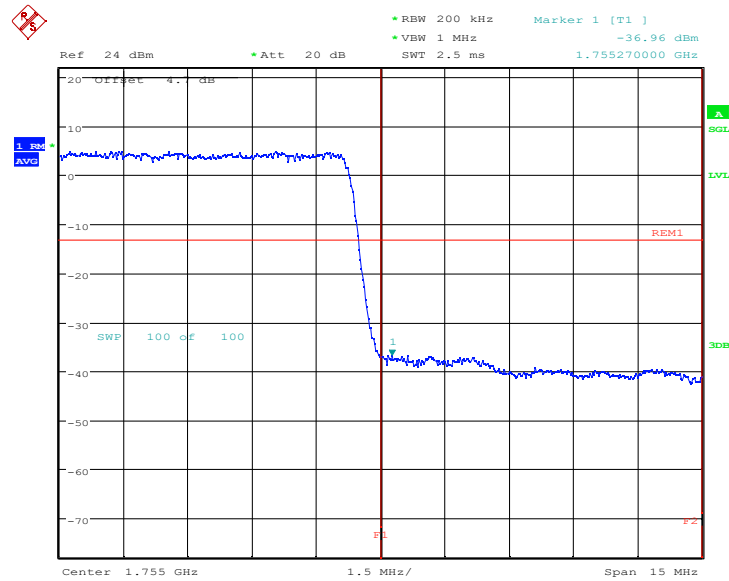
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Date: 9.MAY.2024 14:50:05

HIGH BAND EDGE BLOCK-15M-100%RB



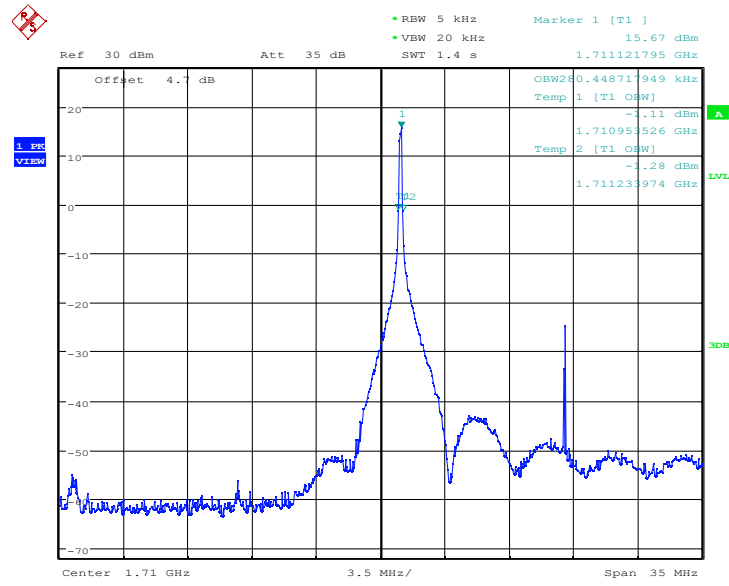
Date: 9.MAY.2024 14:52:16

LTE band 4-20MHz

OBW: 1RB-LOW_offset

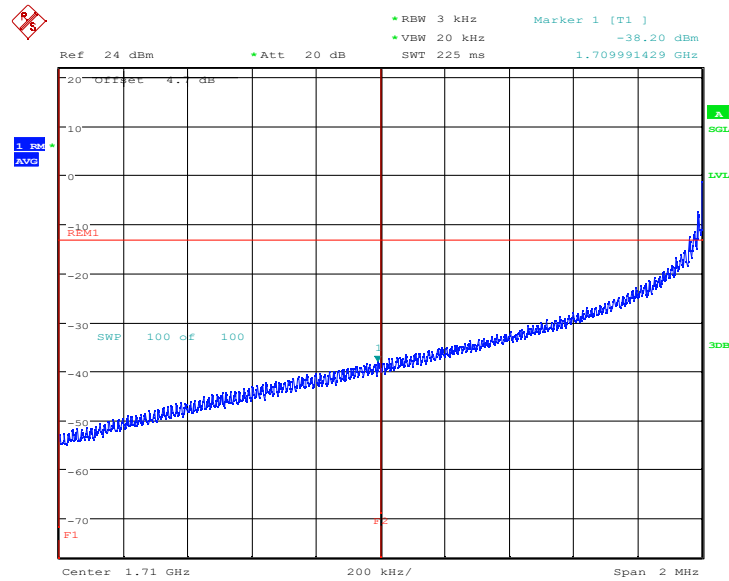
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 14:52:50

LOW BAND EDGE BLOCK-1RB-LOW_offset

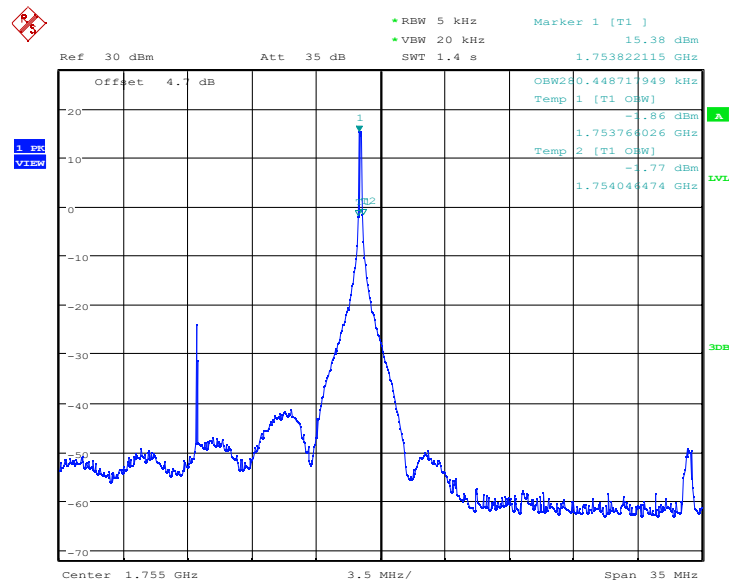


Date: 9.MAY.2024 14:53:53

OBW: 1RB-HIGH_offset

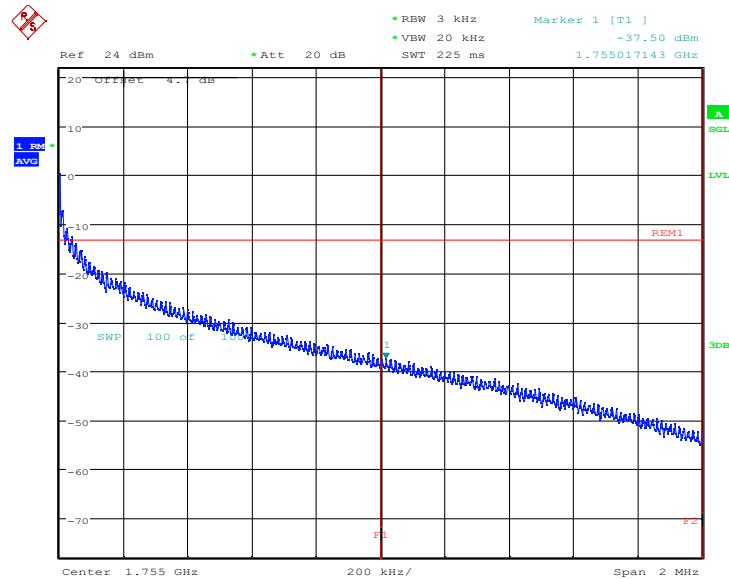
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 14:55:04

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

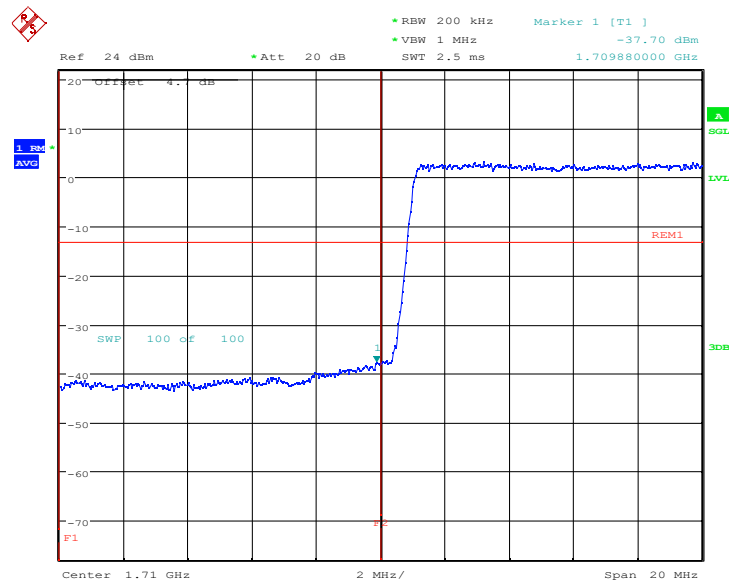


Date: 9.MAY.2024 14:56:05

LOW BAND EDGE BLOCK-20M-100%RB

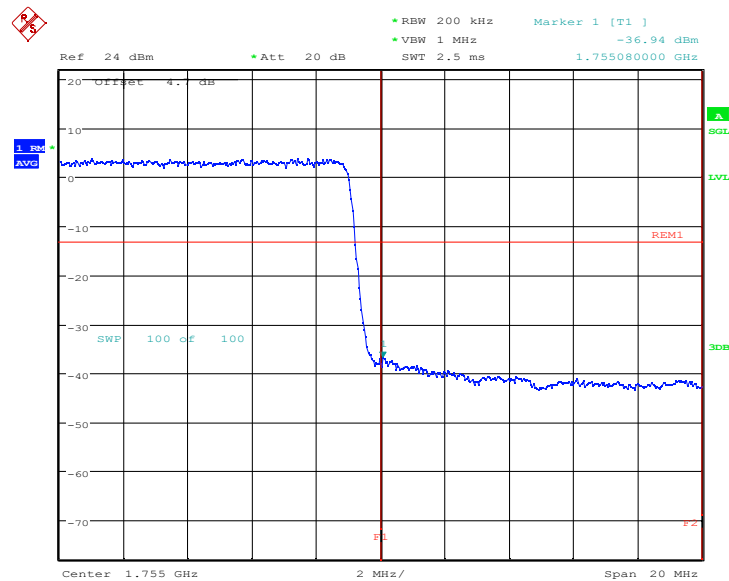
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 14:54:38

HIGH BAND EDGE BLOCK-20M-100%RB



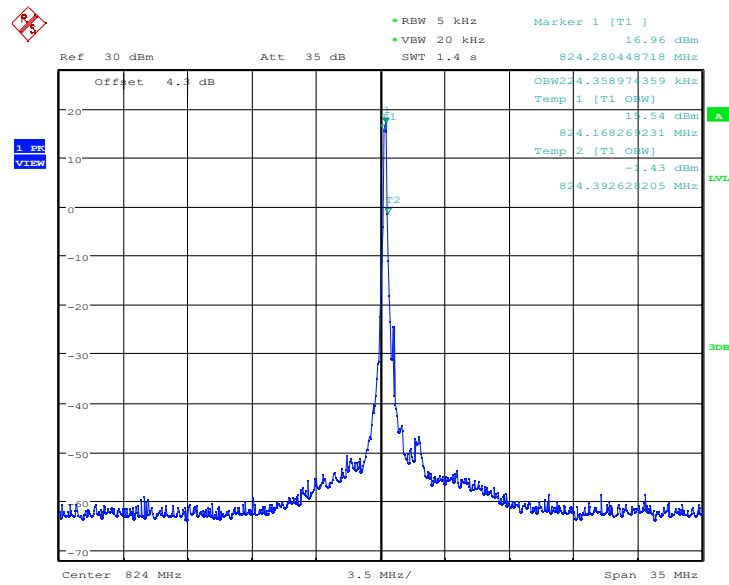
Date: 9.MAY.2024 14:56:49

LTE band 5-1.4MHz

OBW: 1RB-LOW_offset

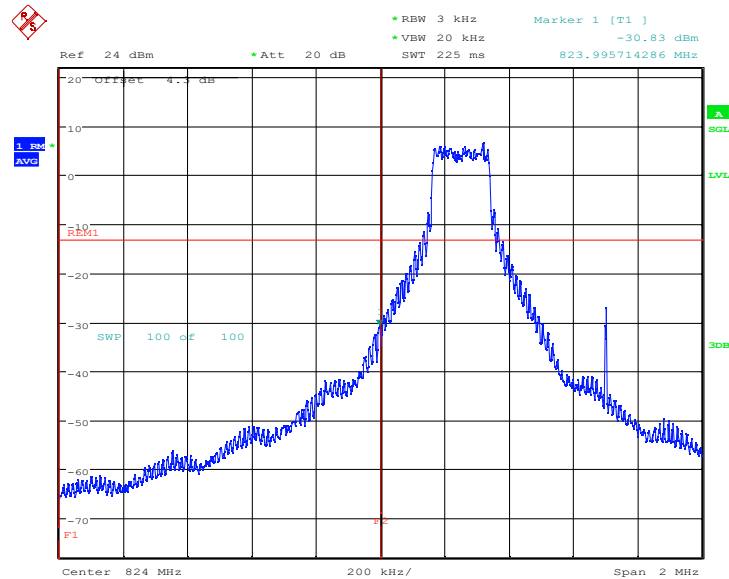
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 14:57:33

LOW BAND EDGE BLOCK-1RB-LOW_offset

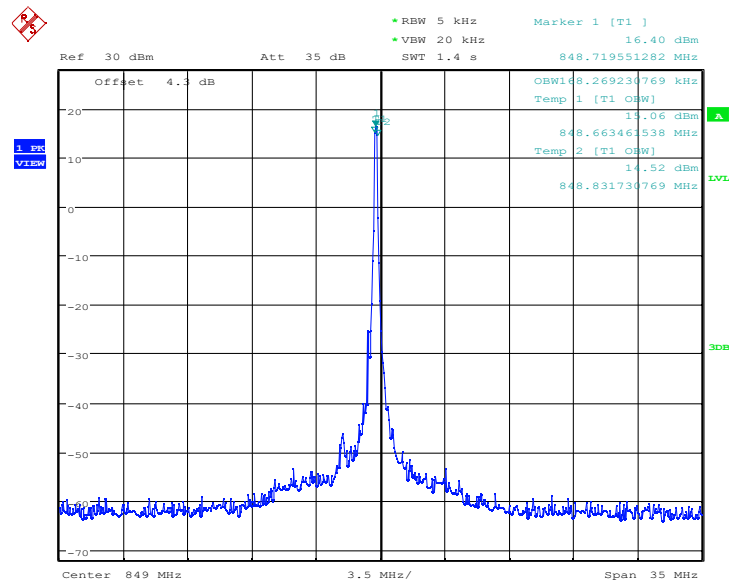


Date: 9.MAY.2024 14:58:35

OBW: 1RB-HIGH_offset

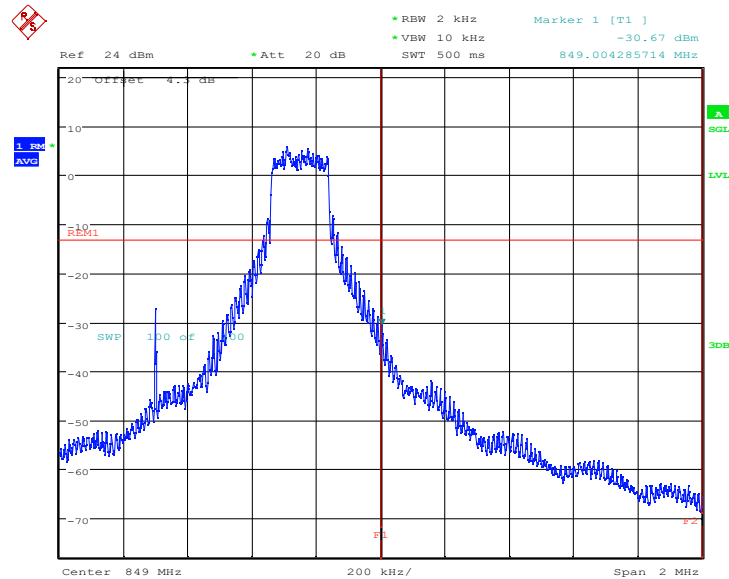
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 14:59:44

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

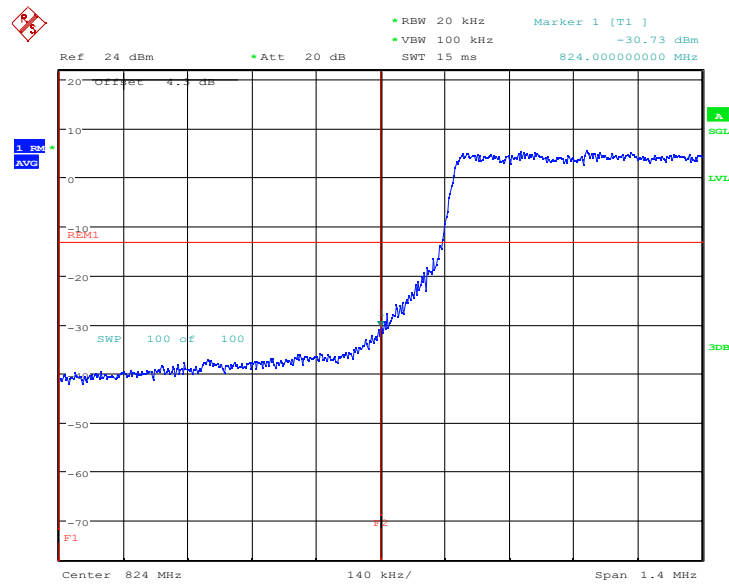


Date: 9.MAY.2024 15:01:15

LOW BAND EDGE BLOCK-1.4M-100%RB

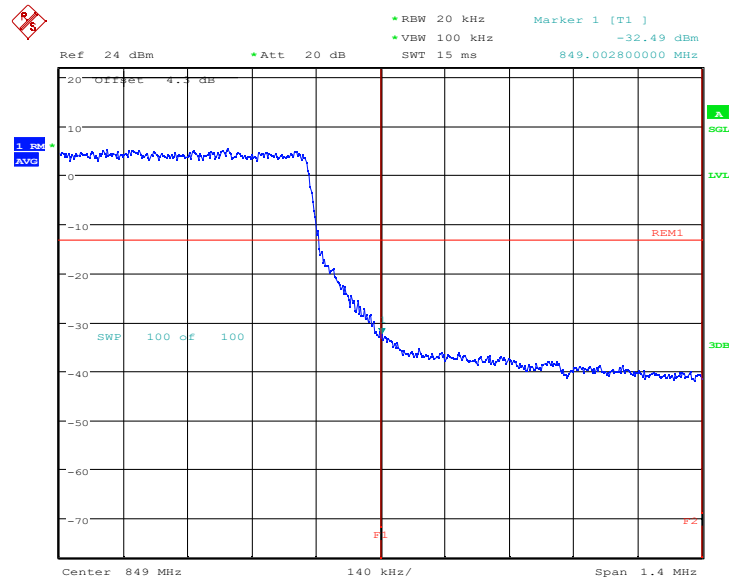
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Date: 9.MAY.2024 14:59:18

HIGH BAND EDGE BLOCK-1.4M-100%RB



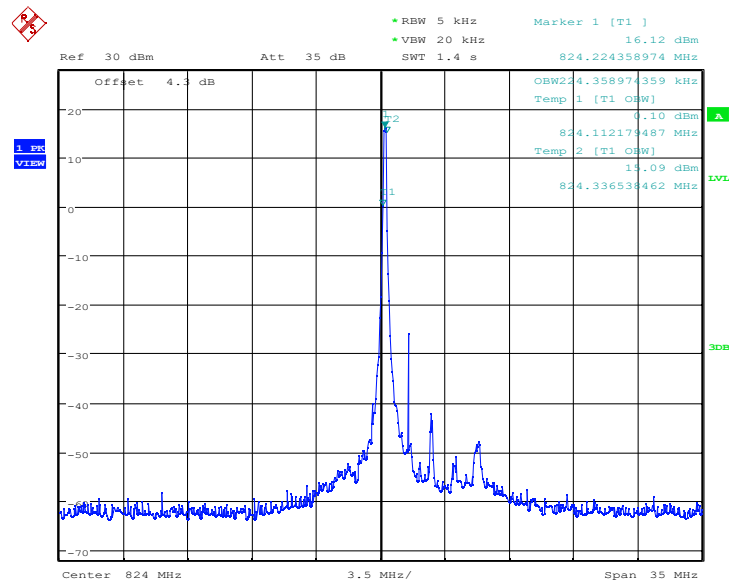
Date: 9.MAY.2024 15:01:58

LTE band 5-3MHz

OBW: 1RB-LOW_offset

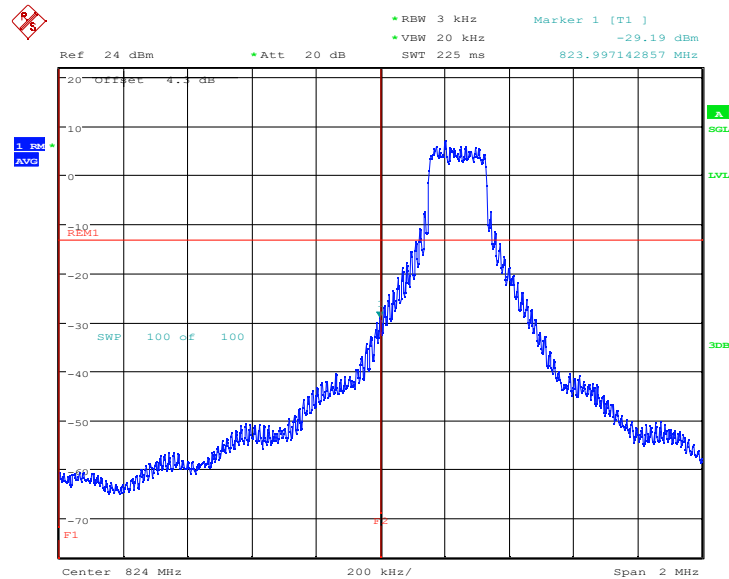
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Date: 9.MAY.2024 15:02:31

LOW BAND EDGE BLOCK-1RB-LOW_offset

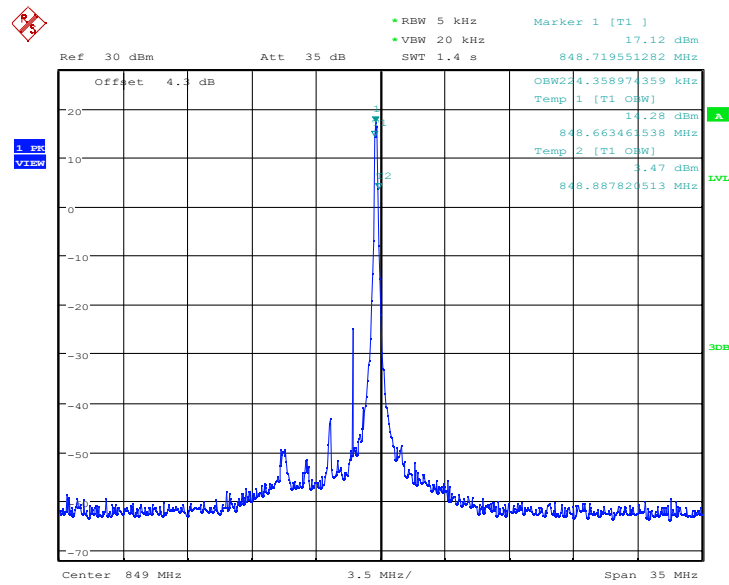


Date: 9.MAY.2024 15:03:33

OBW: 1RB-HIGH_offset

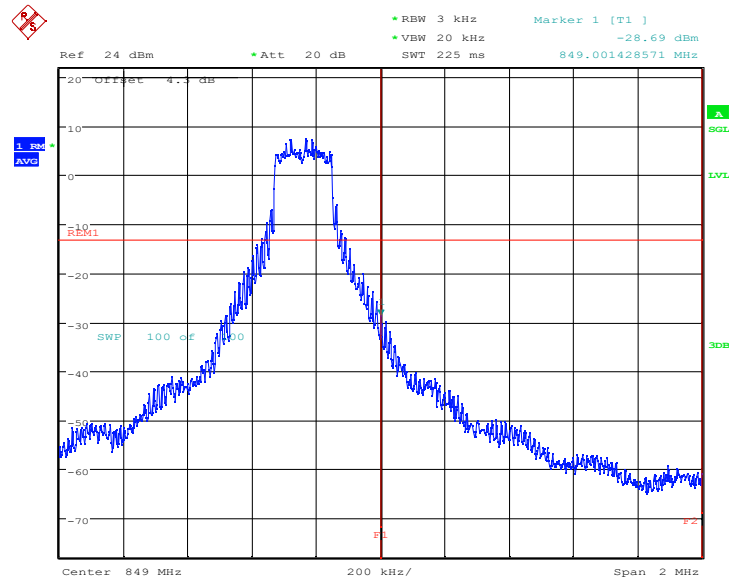
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Date: 9.MAY.2024 15:04:44

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

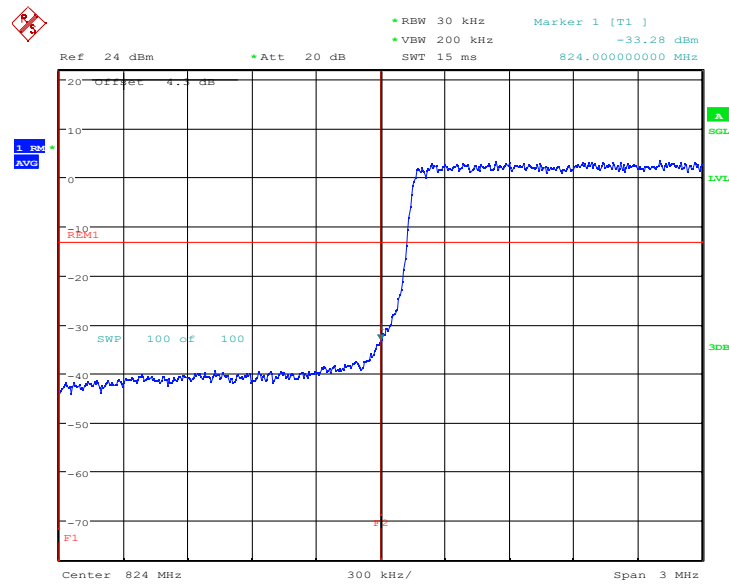


Date: 9.MAY.2024 15:05:45

LOW BAND EDGE BLOCK-3M-100%RB

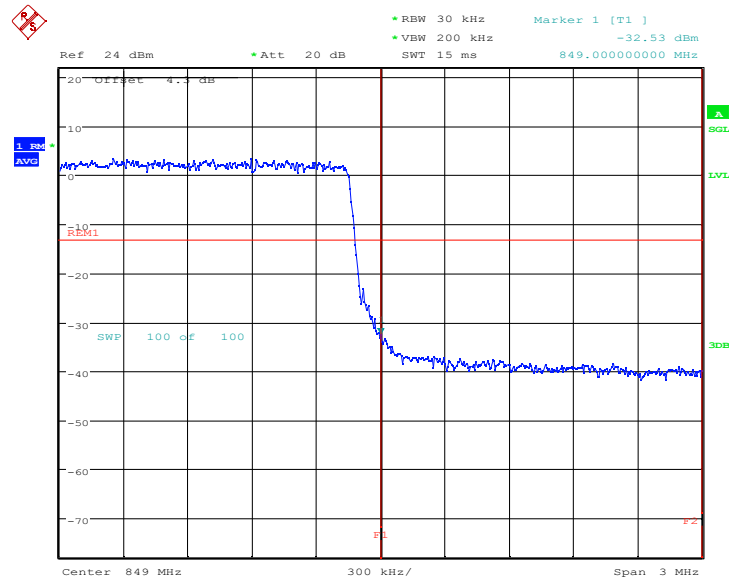
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Date: 9.MAY.2024 15:04:16

HIGH BAND EDGE BLOCK-3M-100%RB



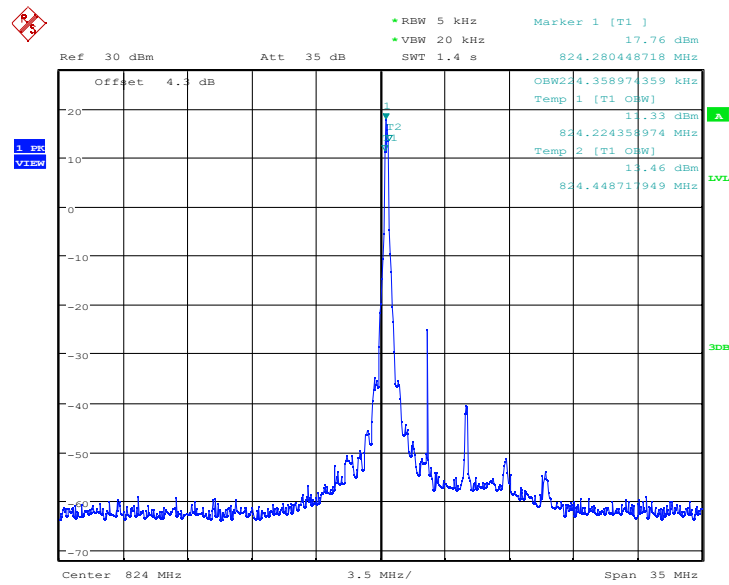
Date: 9.MAY.2024 15:06:28

LTE band 5-5MHz

OBW: 1RB-LOW_offset

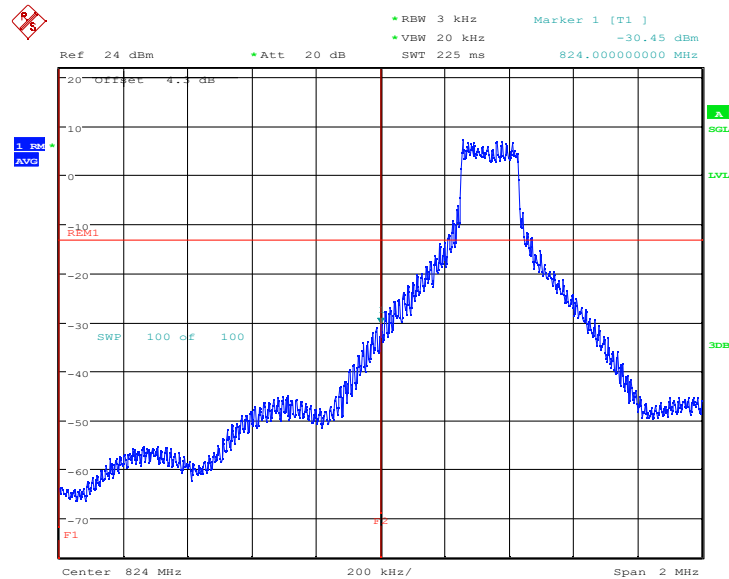
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Date: 9.MAY.2024 15:07:06

LOW BAND EDGE BLOCK-1RB-LOW_offset

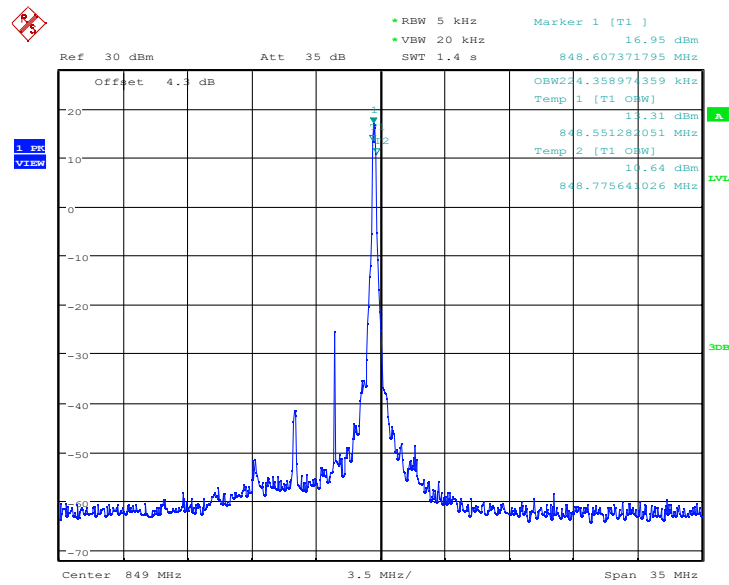


Date: 9.MAY.2024 15:08:07

OBW: 1RB-HIGH_offset

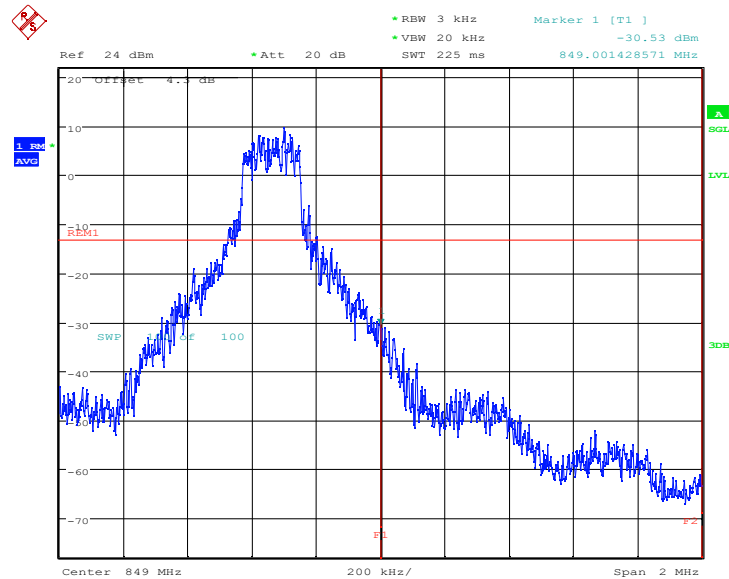
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Date: 9.MAY.2024 15:09:16

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

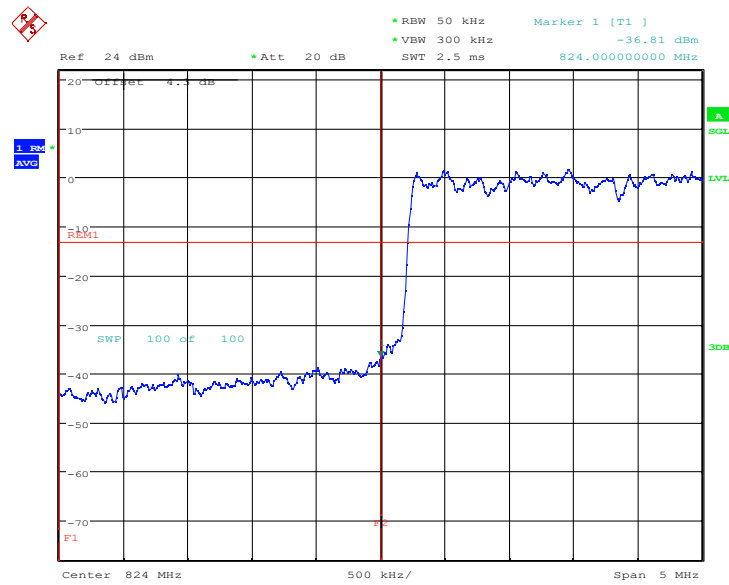


Date: 9.MAY.2024 15:10:17

LOW BAND EDGE BLOCK-5M-100%RB

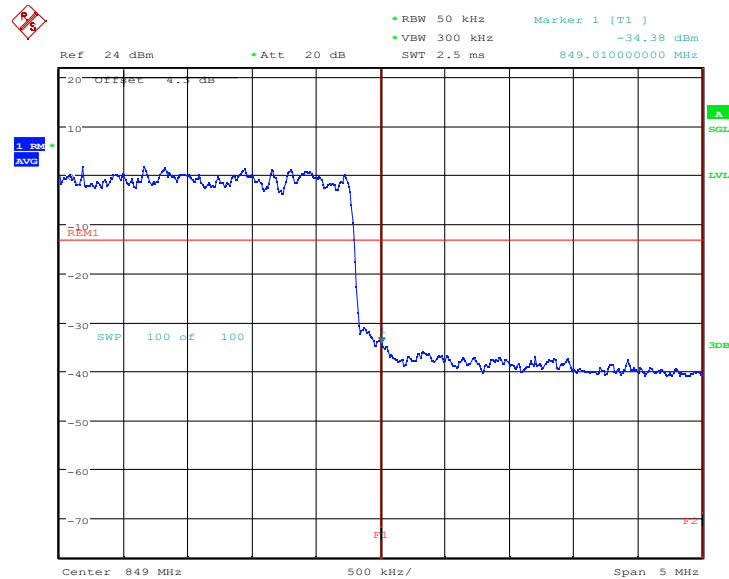
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Date: 9.MAY.2024 15:08:49

HIGH BAND EDGE BLOCK-5M-100%RB



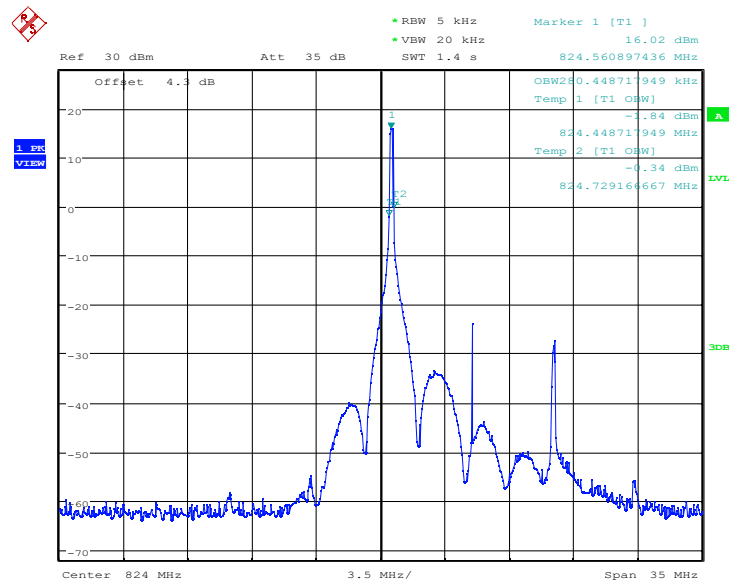
Date: 9.MAY.2024 15:10:59

LTE band 5-10MHz

OBW: 1RB-LOW_offset

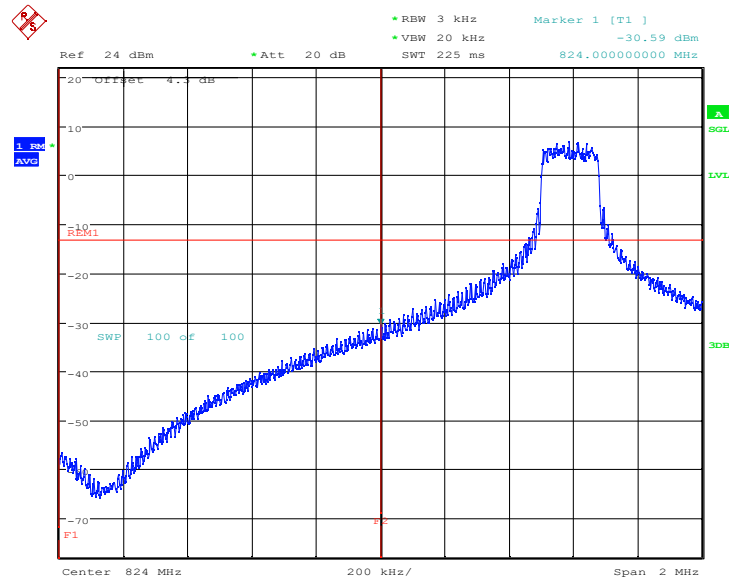
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Date: 9.MAY.2024 15:11:33

LOW BAND EDGE BLOCK-1RB-LOW_offset

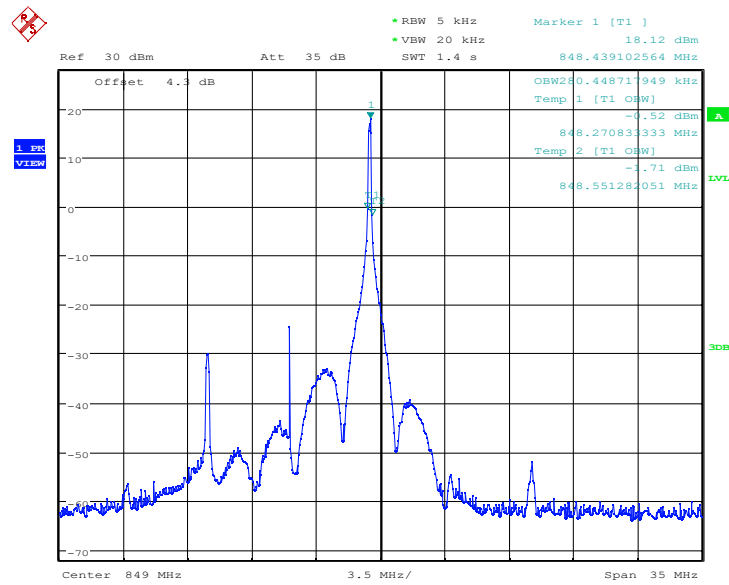


Date: 9.MAY.2024 15:12:34

OBW: 1RB-HIGH_offset

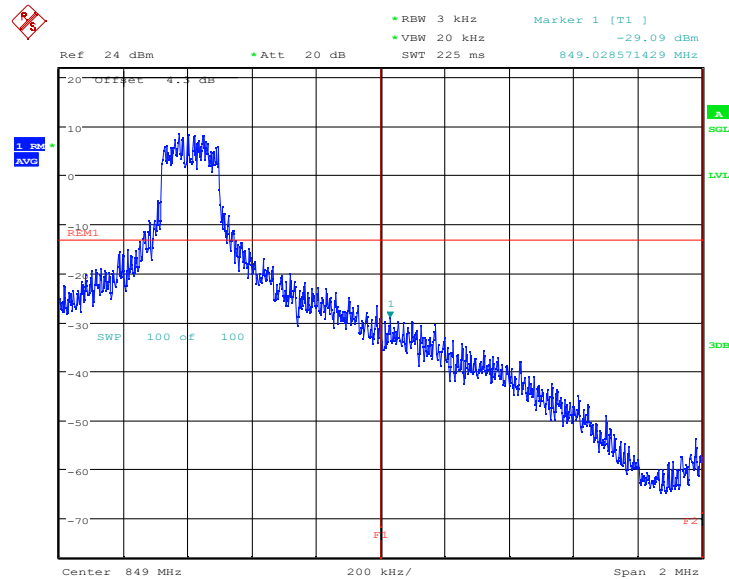
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Date: 9.MAY.2024 15:13:43

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

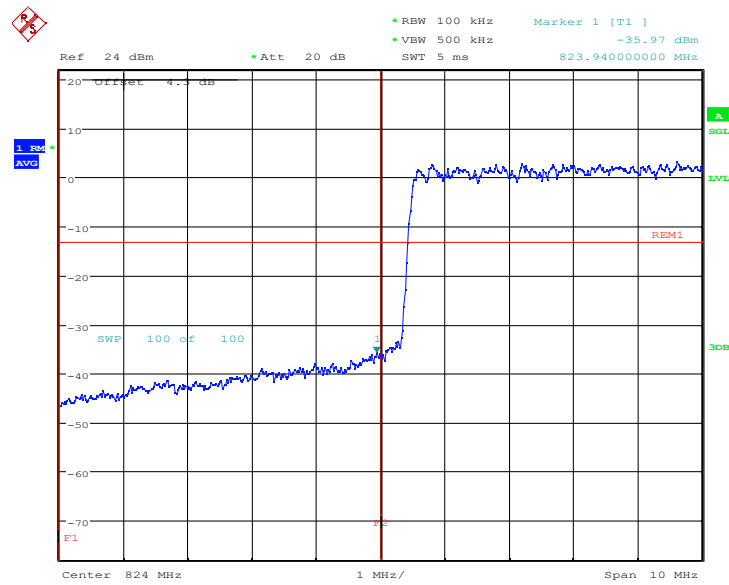


Date: 9.MAY.2024 15:14:45

LOW BAND EDGE BLOCK-10M-100%RB

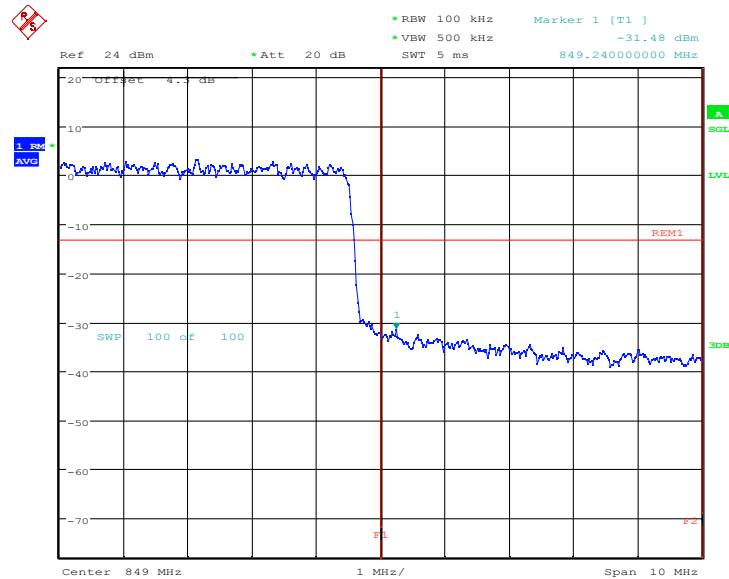
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Date: 9.MAY.2024 15:13:17

HIGH BAND EDGE BLOCK-10M-100%RB



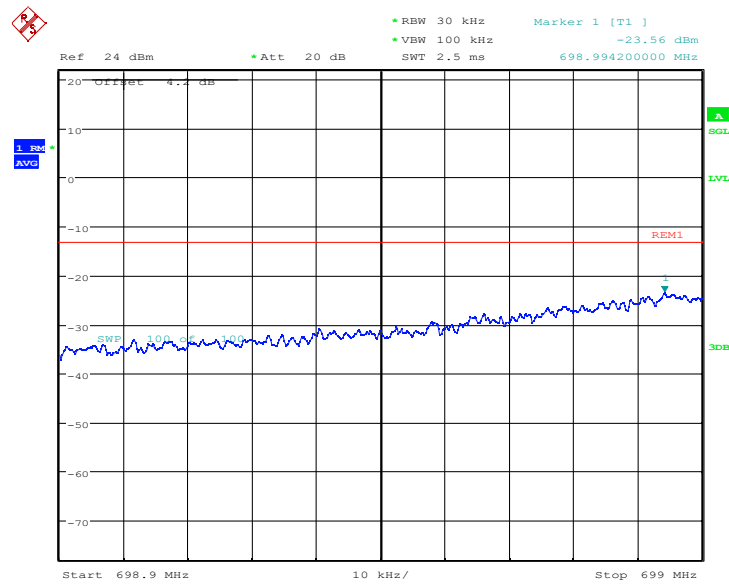
Date: 9.MAY.2024 15:15:28

LTE band 12-1.4MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

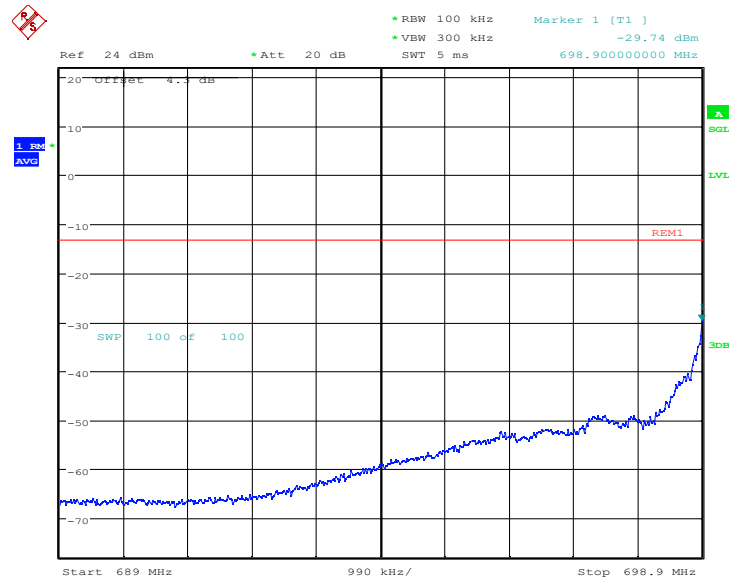
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Date: 9.MAY.2024 15:16:27

LOW BAND EDGE BLOCK-1RB-LOW_offset

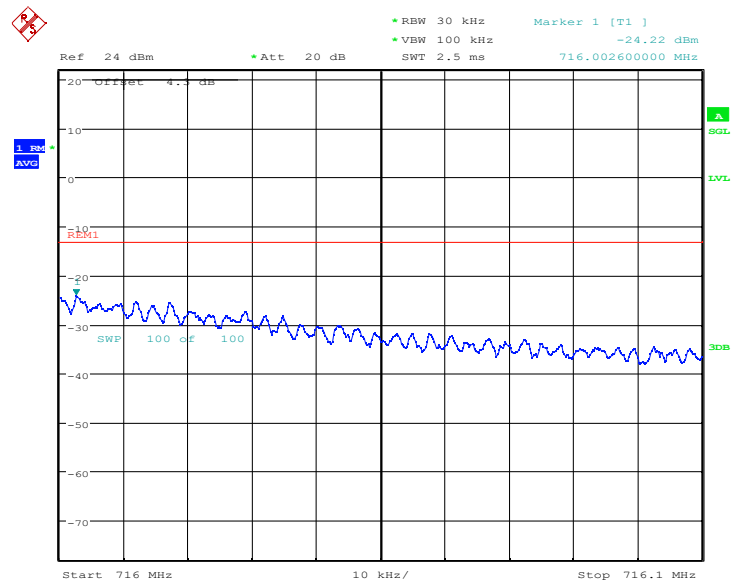


Date: 9.MAY.2024 15:17:09

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

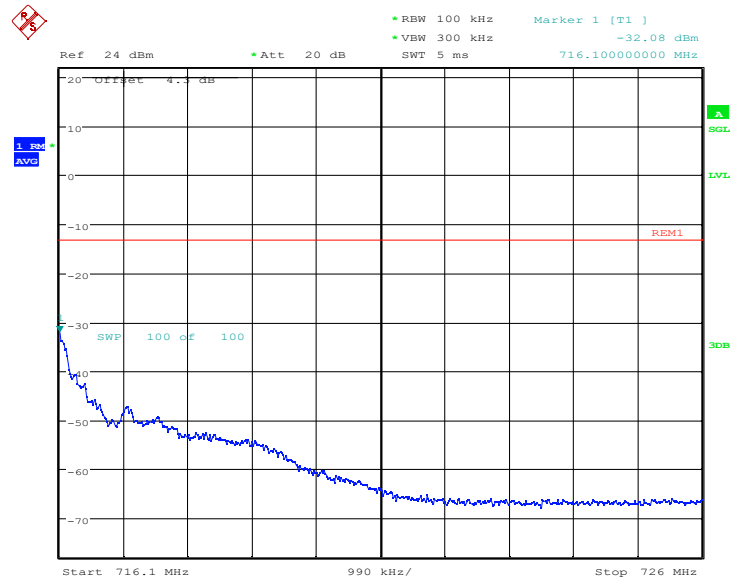
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Date: 9.MAY.2024 15:19:20

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

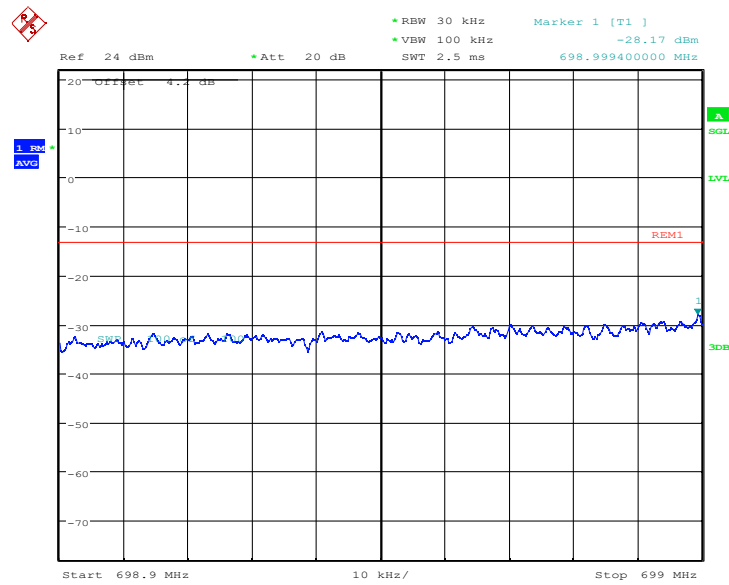


Date: 9.MAY.2024 15:20:02

LOW BAND EDGE BLOCK-1.4M-100%RB

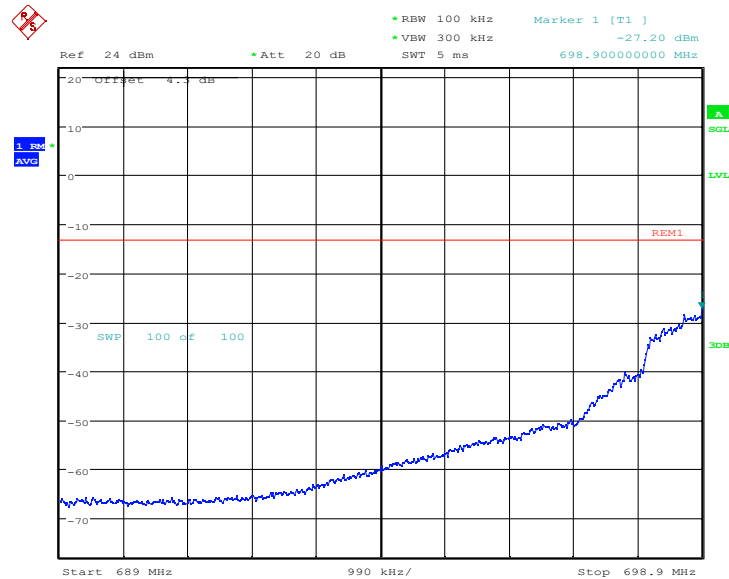
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Date: 9.MAY.2024 15:17:51

LOW BAND EDGE BLOCK-1.4M-100%RB

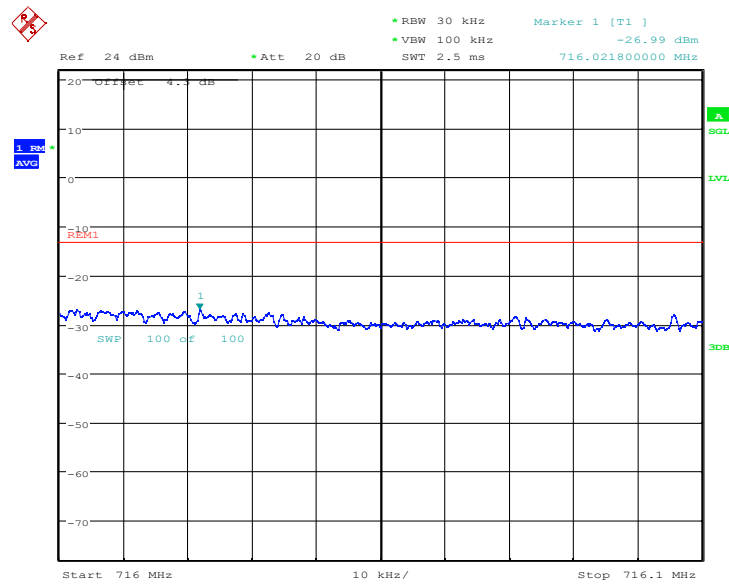


Date: 9.MAY.2024 15:18:33

HIGH BAND EDGE BLOCK-1.4M-100%RB

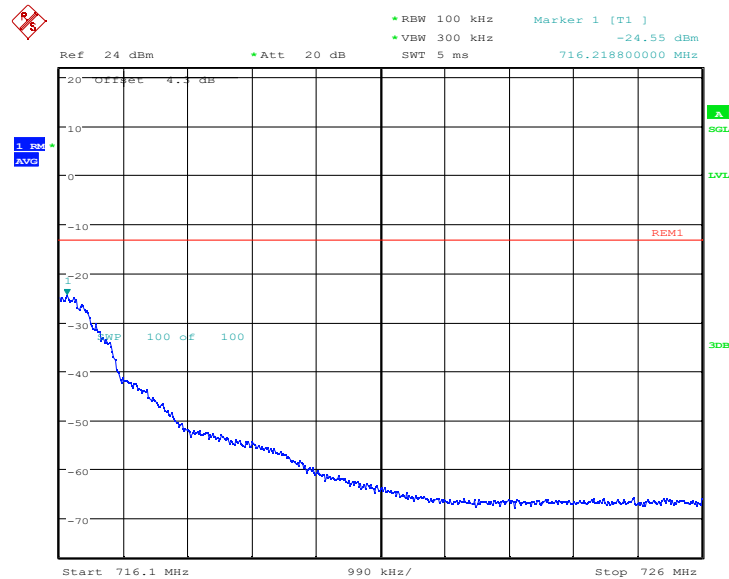
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Date: 9.MAY.2024 15:20:44

HIGH BAND EDGE BLOCK-1.4M-100%RB



Date: 9.MAY.2024 15:21:25

LTE band 12-3MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

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* RBW 30 kHz
 * VBW 100 kHz
 * SWT 2.5 ms
 Marker 1 [T1]
 -22.59 dBm
 698.997600000 MHz

Ref 24 dBm
 Att 20 dB

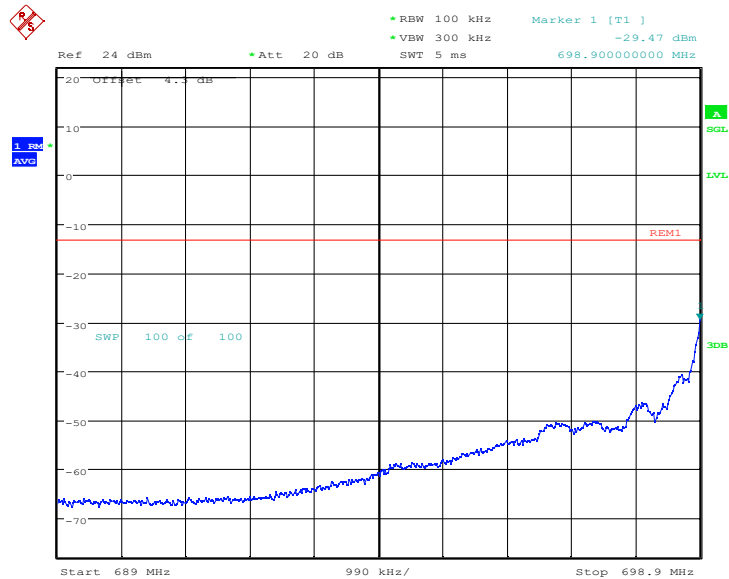
1.25 dB
 AVG

2. SGL
 3. LVL
 4. 3DB

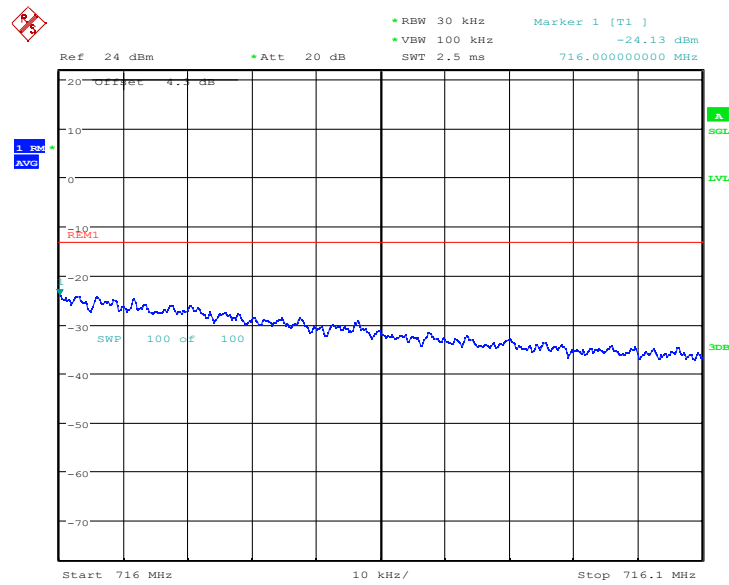
SWP
 1.00
 REM1
 1

Start 698.9 MHz
 10 kHz/
 Stop 699 MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

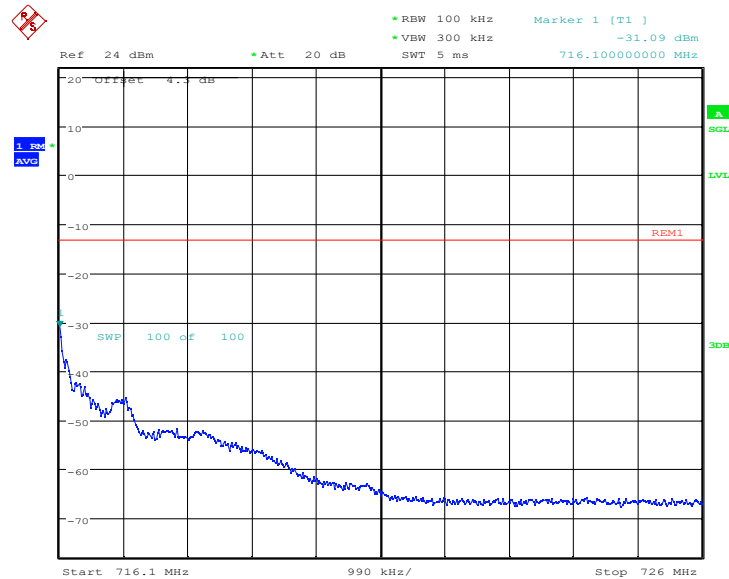


HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 9.MAY.2024 15:25:13

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

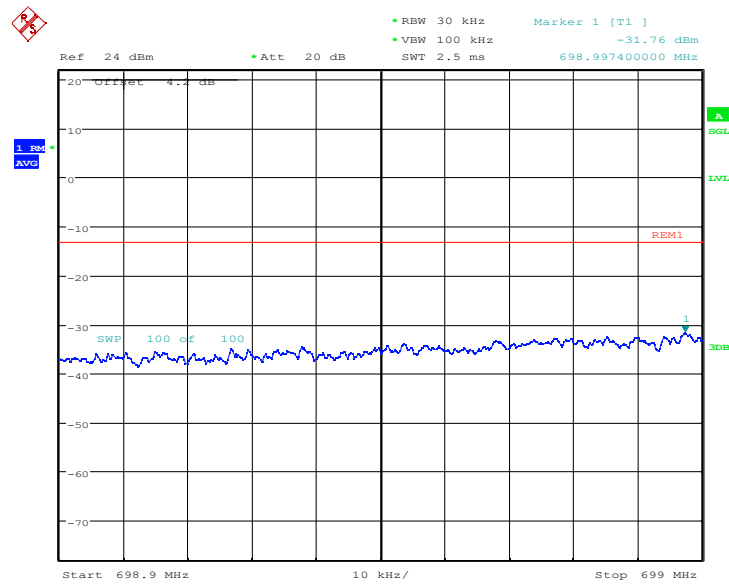


Date: 9.MAY.2024 15:25:55

LOW BAND EDGE BLOCK-3M-100%RB

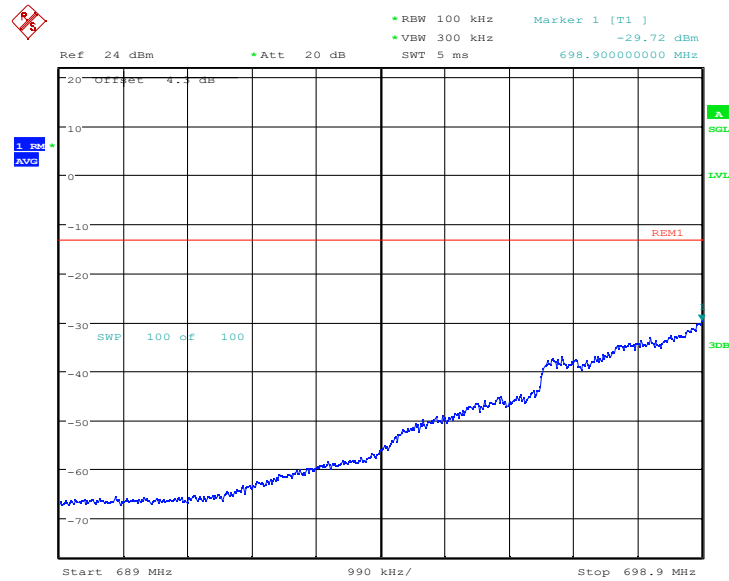
Chongqing Academy of Information and Communication Technology

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



Date: 9.MAY.2024 15:23:44

LOW BAND EDGE BLOCK-3M-100%RB

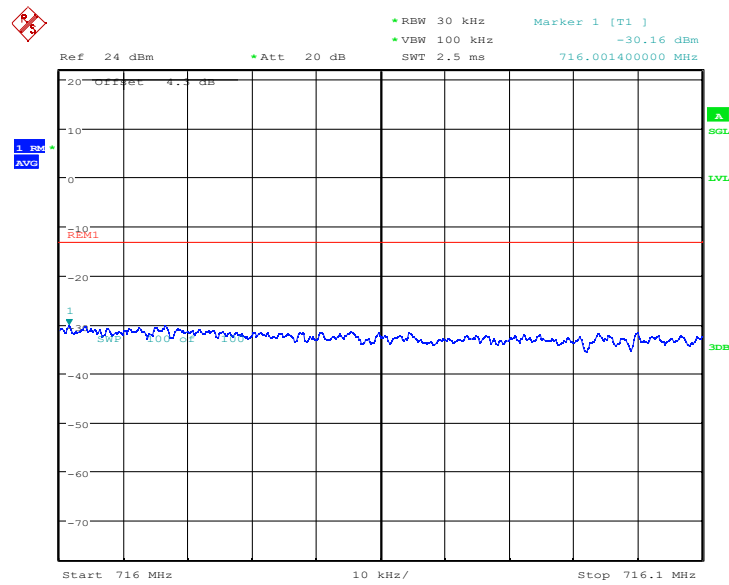


Date: 9.MAY.2024 15:24:26

HIGH BAND EDGE BLOCK-3M-100%RB

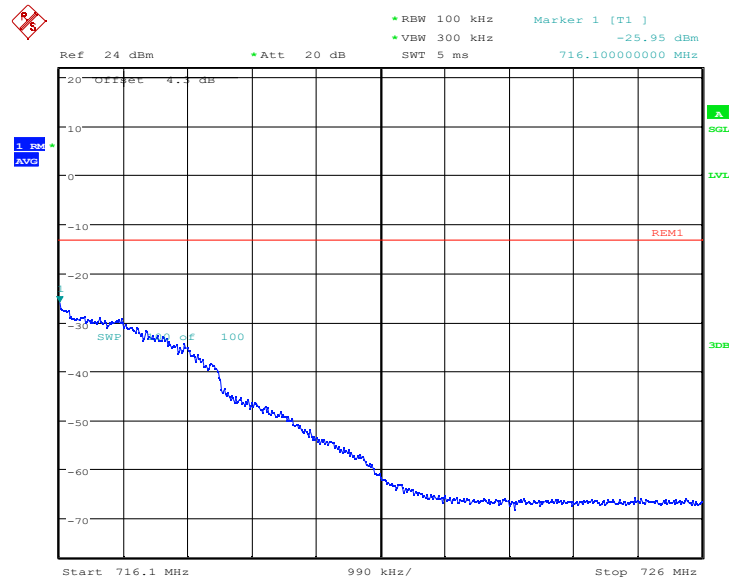
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Date: 9.MAY.2024 15:26:37

HIGH BAND EDGE BLOCK-3M-100%RB



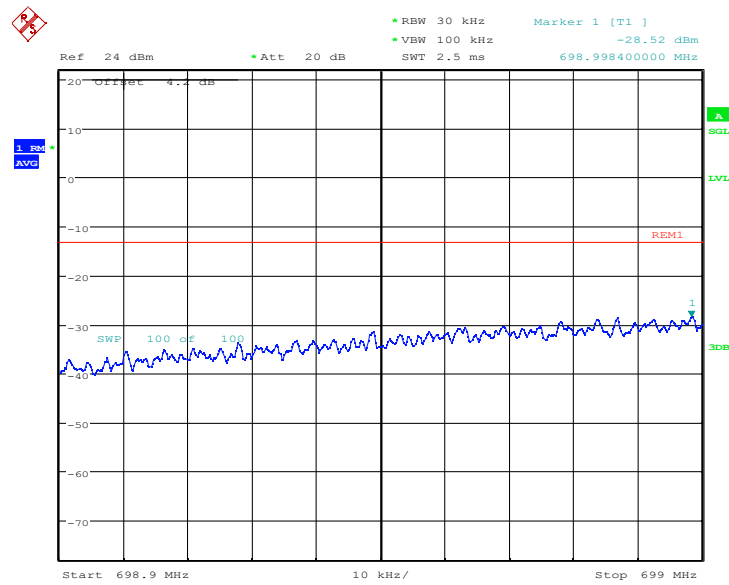
Date: 9.MAY.2024 15:27:19

LTE band 12-5MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

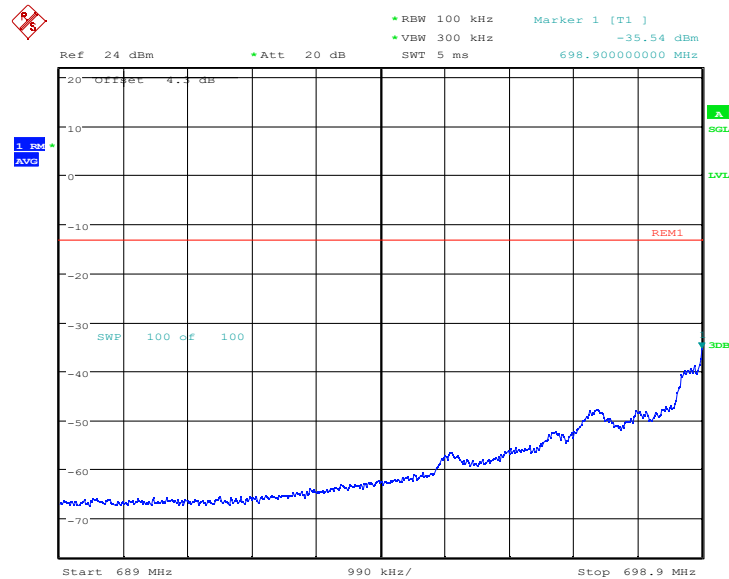
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Date: 9.MAY.2024 15:28:14

LOW BAND EDGE BLOCK-1RB-LOW_offset

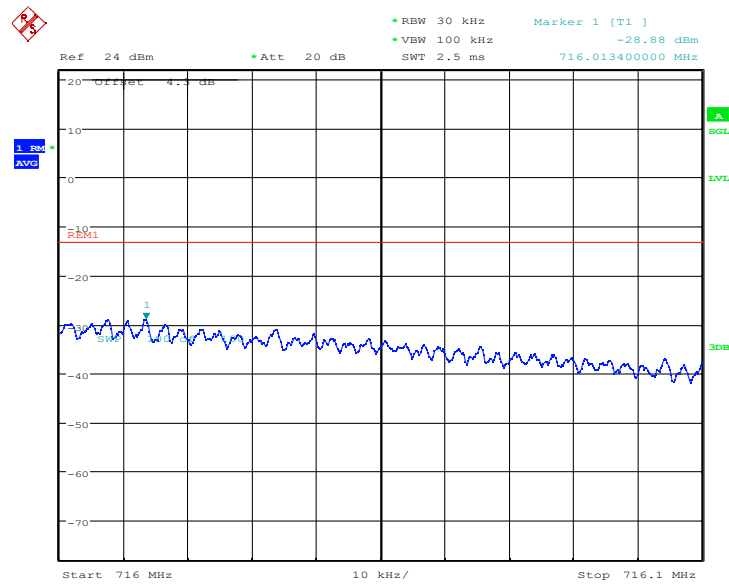


Date: 9.MAY.2024 15:28:56

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

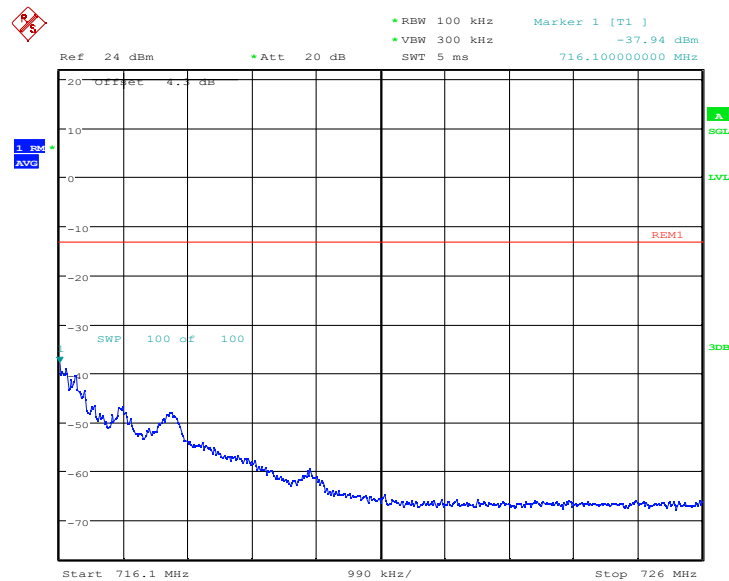
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Date: 9.MAY.2024 15:31:07

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

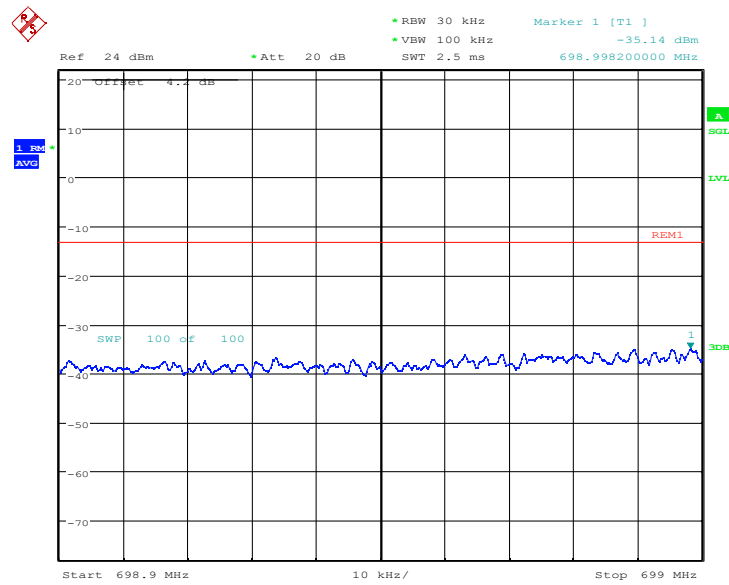


Date: 9.MAY.2024 15:31:48

LOW BAND EDGE BLOCK-5M-100%RB

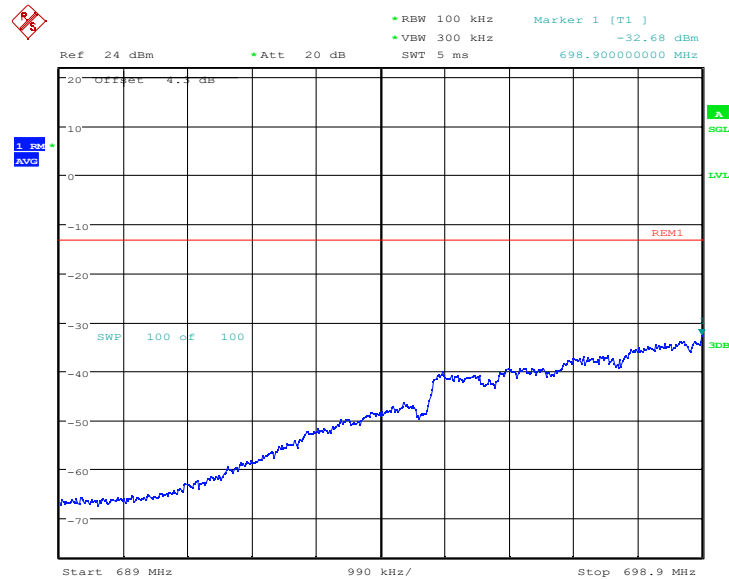
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Date: 9.MAY.2024 15:29:38

LOW BAND EDGE BLOCK-5M-100%RB

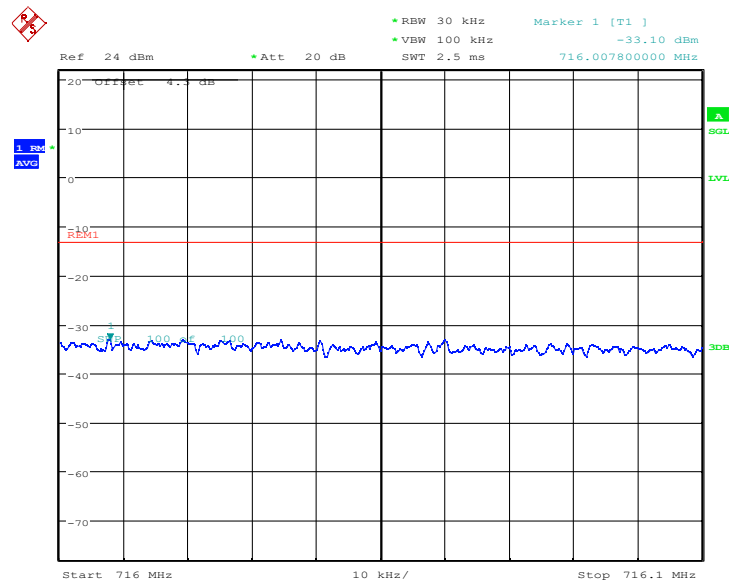


Date: 9.MAY.2024 15:30:20

HIGH BAND EDGE BLOCK-5M-100%RB

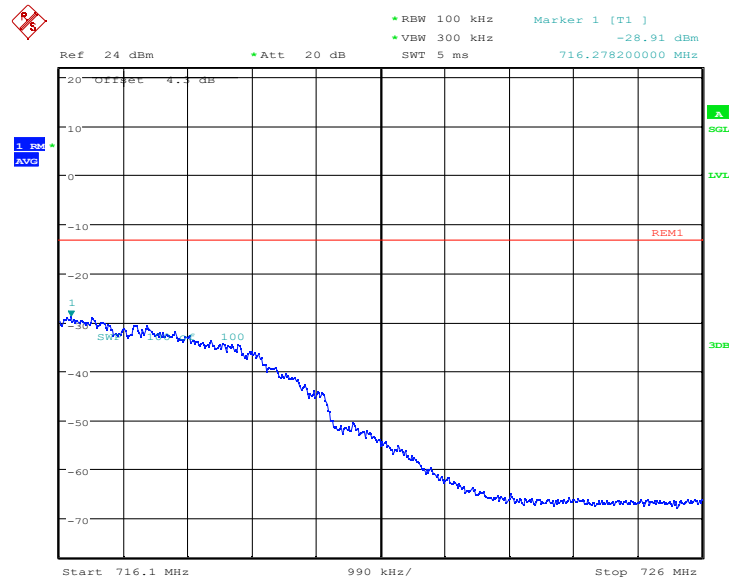
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Date: 9.MAY.2024 15:32:31

HIGH BAND EDGE BLOCK-5M-100%RB



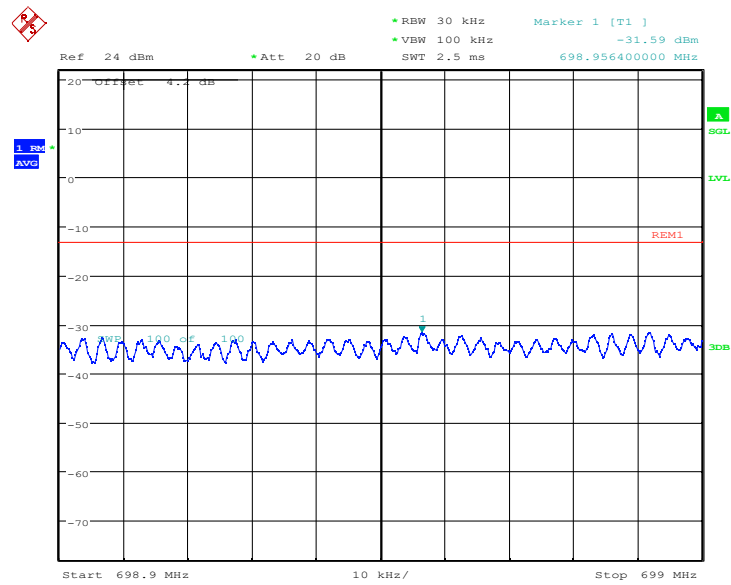
Date: 9.MAY.2024 15:33:17

LTE band 12-10MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

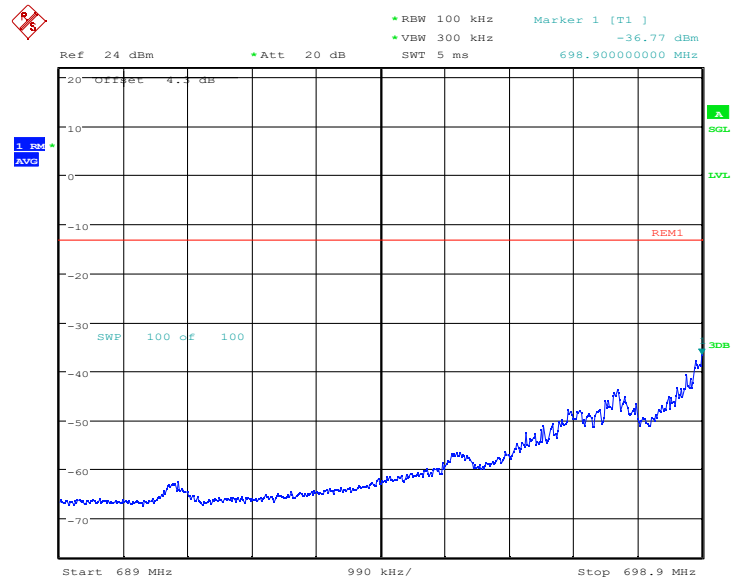
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 15:34:12

LOW BAND EDGE BLOCK-1RB-LOW_offset

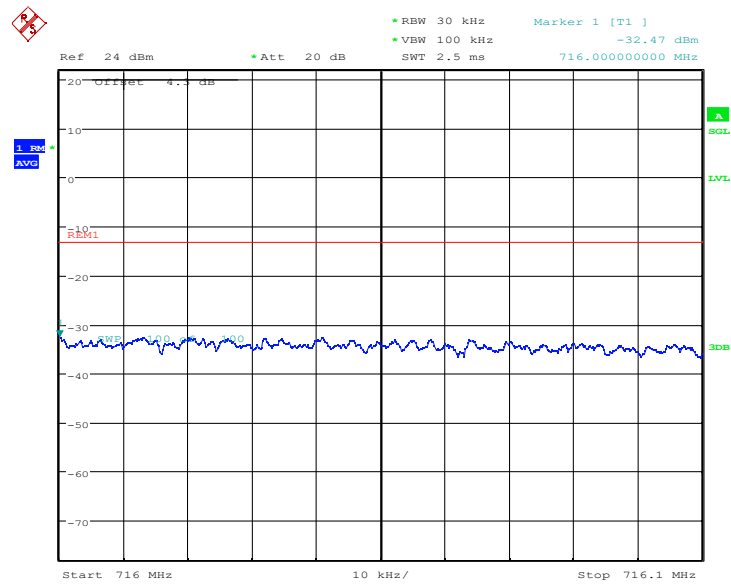


Date: 9.MAY.2024 15:34:59

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

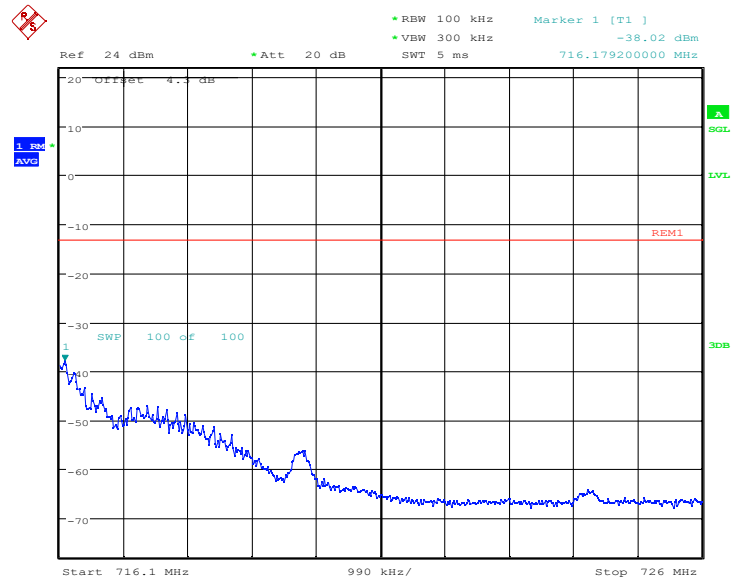
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Date: 9.MAY.2024 15:37:13

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

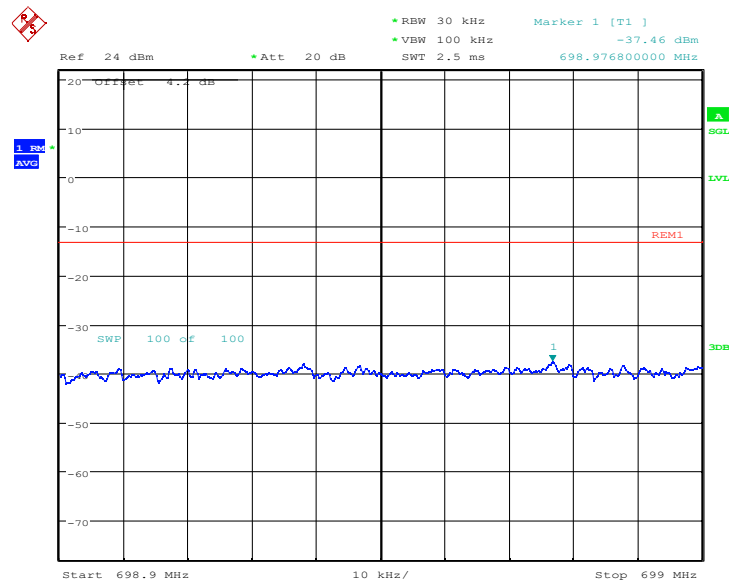


Date: 9.MAY.2024 15:37:54

LOW BAND EDGE BLOCK-10M-100%RB

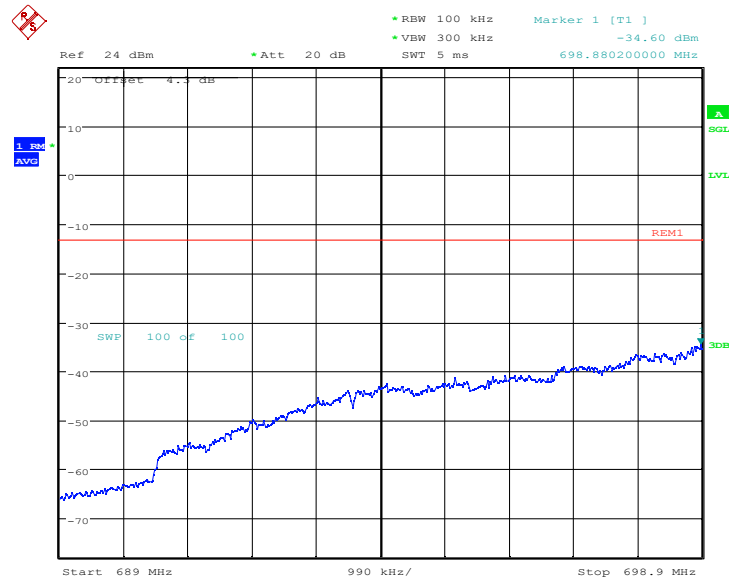
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Date: 9.MAY.2024 15:35:41

LOW BAND EDGE BLOCK-10M-100%RB

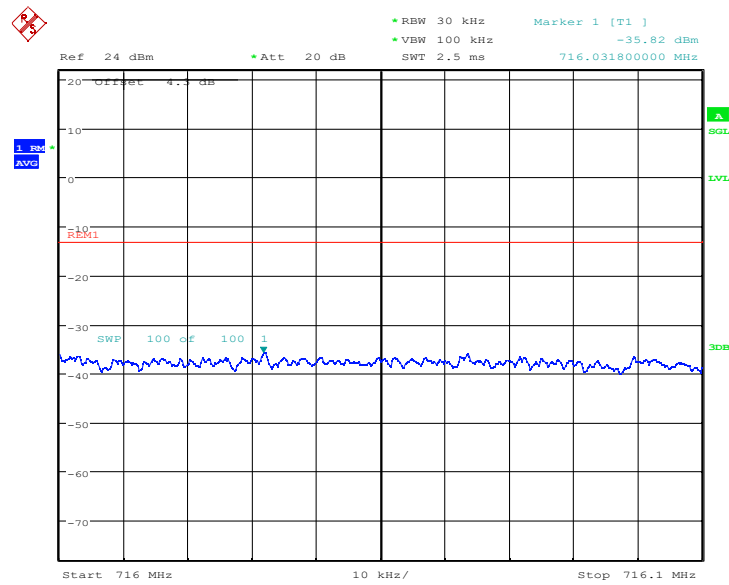


Date: 9.MAY.2024 15:36:25

HIGH BAND EDGE BLOCK-10M-100%RB

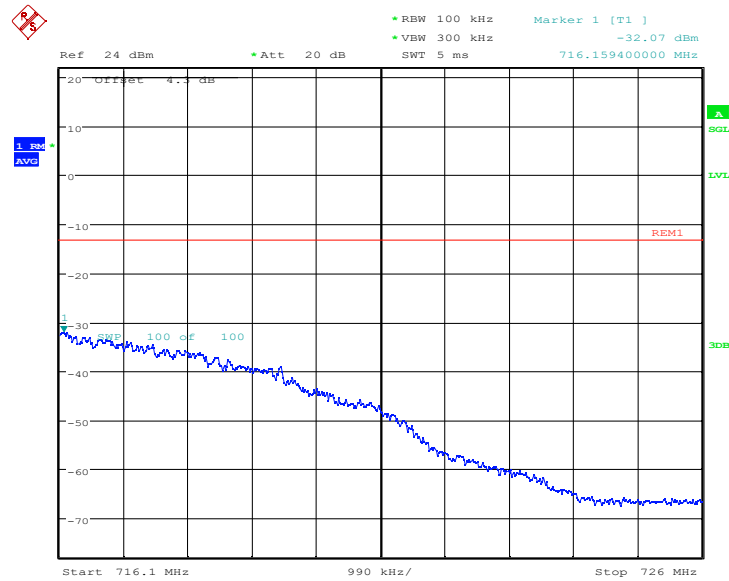
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Date: 9.MAY.2024 15:38:36

HIGH BAND EDGE BLOCK-10M-100%RB



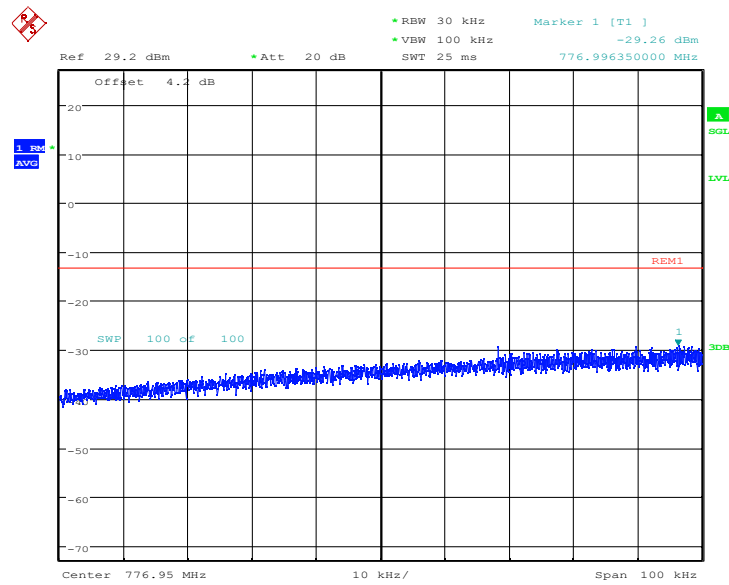
Date: 9.MAY.2024 15:39:18

LTE band 13-5MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

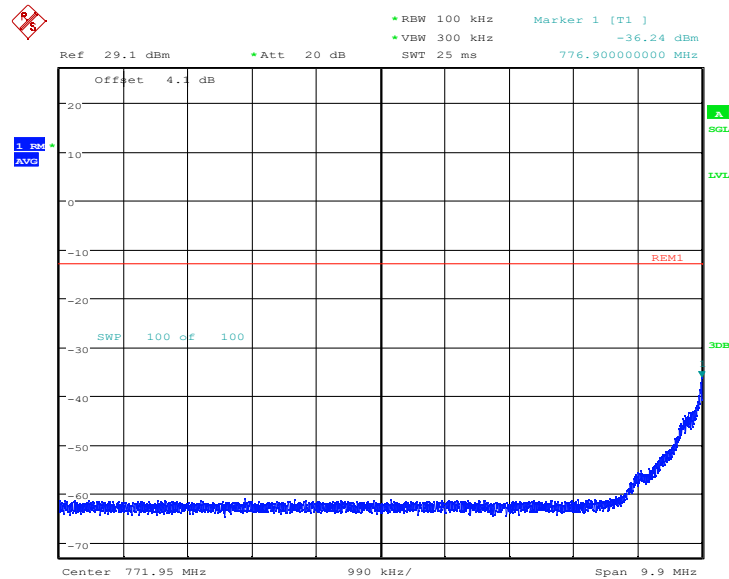
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 13:52:50

LOW BAND EDGE BLOCK-1RB-LOW_offset

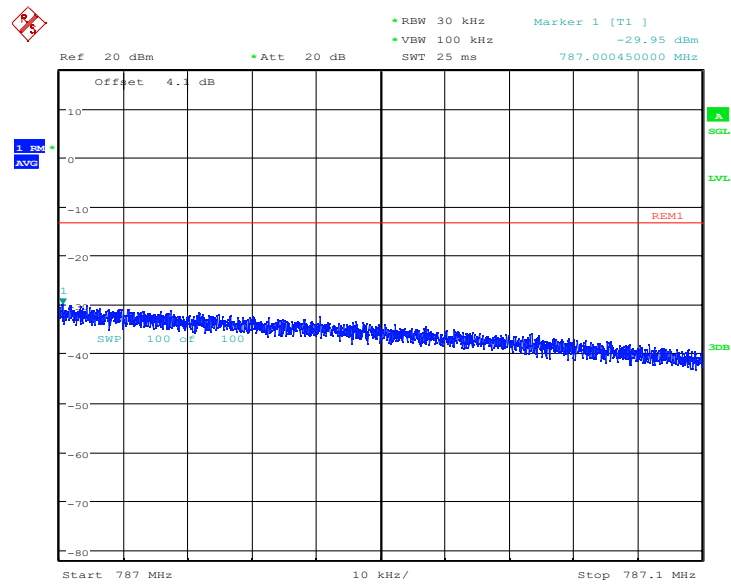


Date: 10.MAY.2024 13:53:40

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

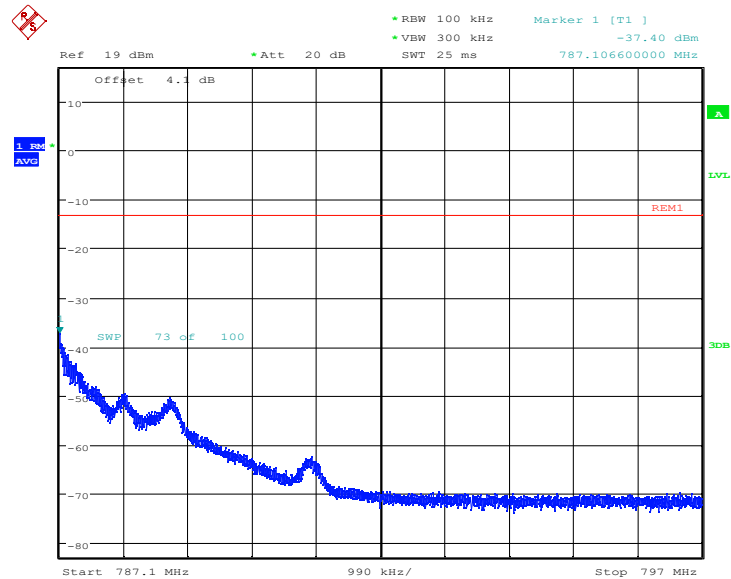
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Date: 10.MAY.2024 13:56:09

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

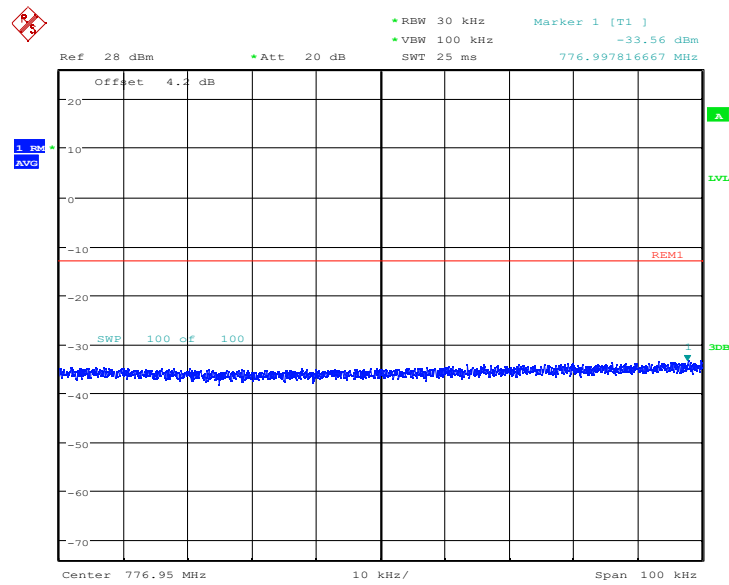


Date: 10.MAY.2024 13:56:53

LOW BAND EDGE BLOCK-5M-100%RB

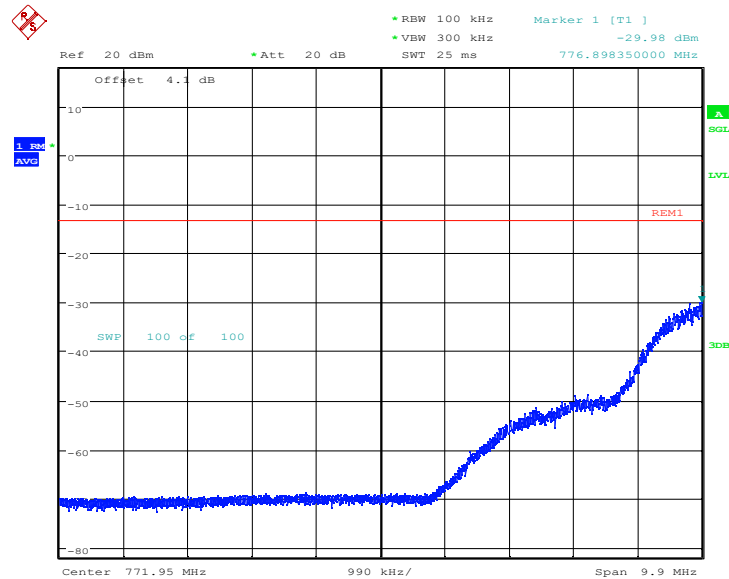
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Date: 10.MAY.2024 13:54:31

LOW BAND EDGE BLOCK-5M-100%RB

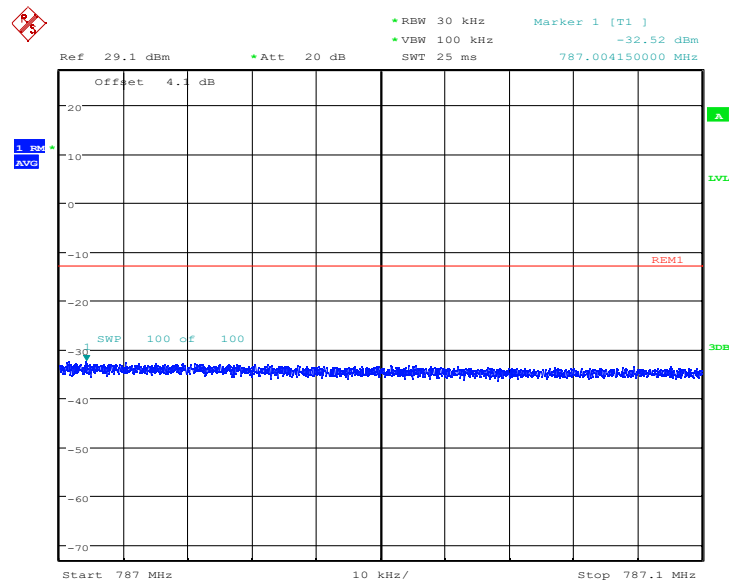


Date: 10.MAY.2024 13:55:16

HIGH BAND EDGE BLOCK-5M-100%RB

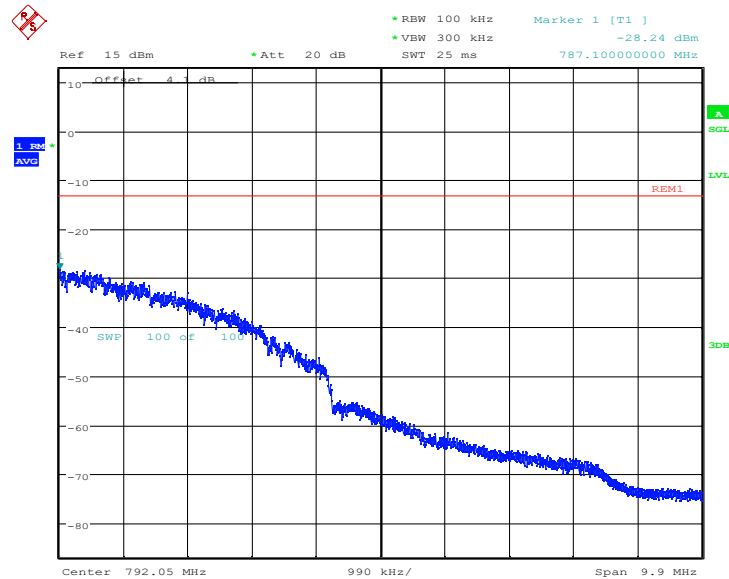
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Date: 10.MAY.2024 13:57:44

HIGH BAND EDGE BLOCK-5M-100%RB



Date: 10.MAY.2024 13:58:27

LTE band 13-10MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

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Ref 29.2 dBm • Att 20 dB • RBW 30 kHz Marker 1 [T1] -32.95 dBm
 SWT 25 ms 776.968250000 MHz

Offset 4.2 dB

1.50
AVC

2.00
SGL

3.00
LVL

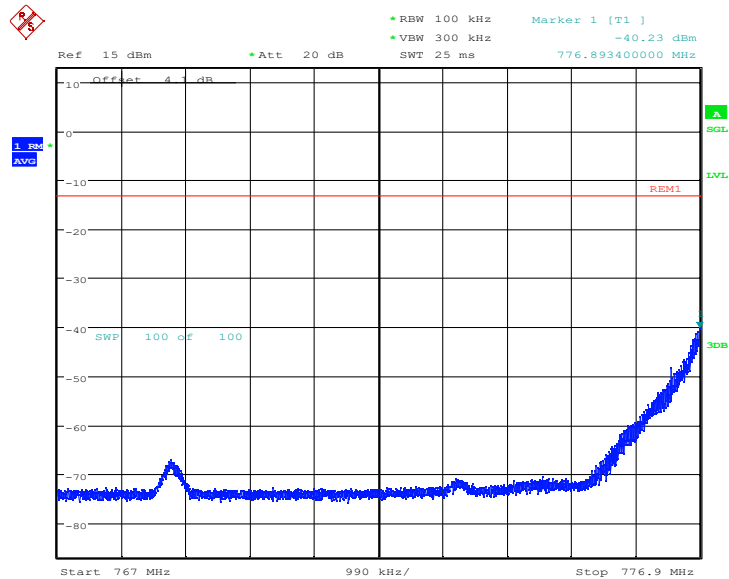
4.00
3DB

5.00
REM1

6.00
SWP 100 of 100

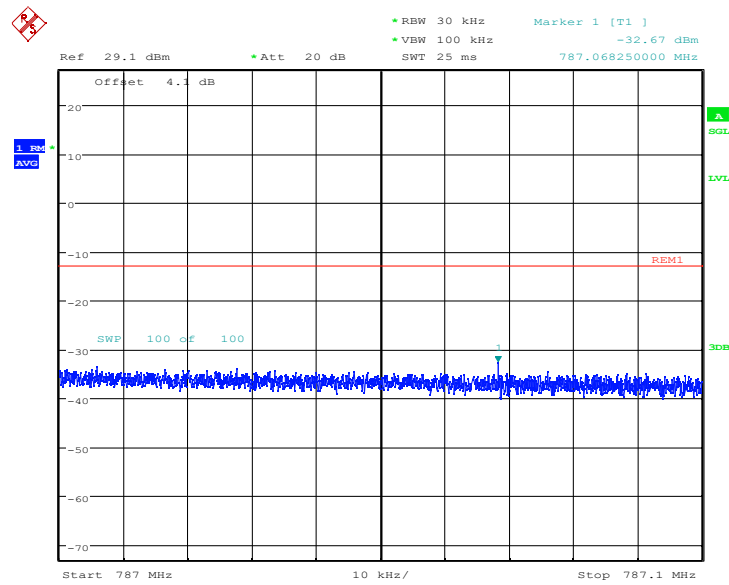
Center 776.95 MHz 10 kHz/ Span 100 kHz

LOW BAND EDGE BLOCK-1RB-LOW_offset



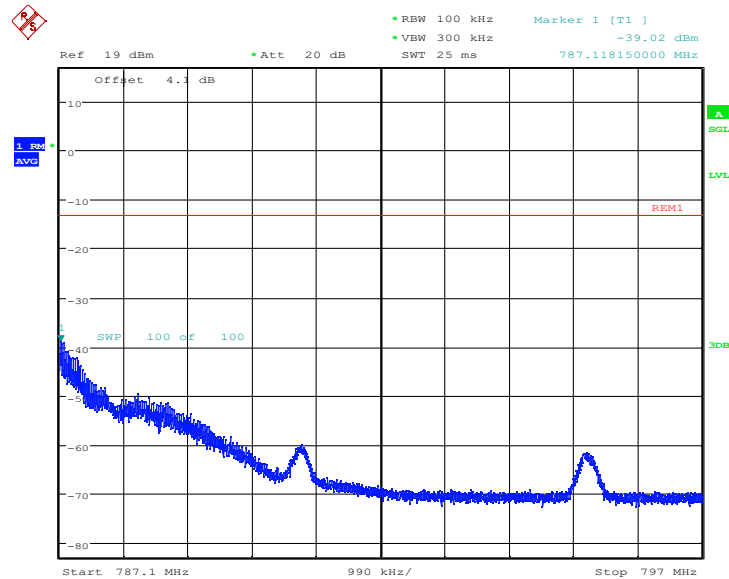
HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Date: 10.MAY.2024 13:44:19

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

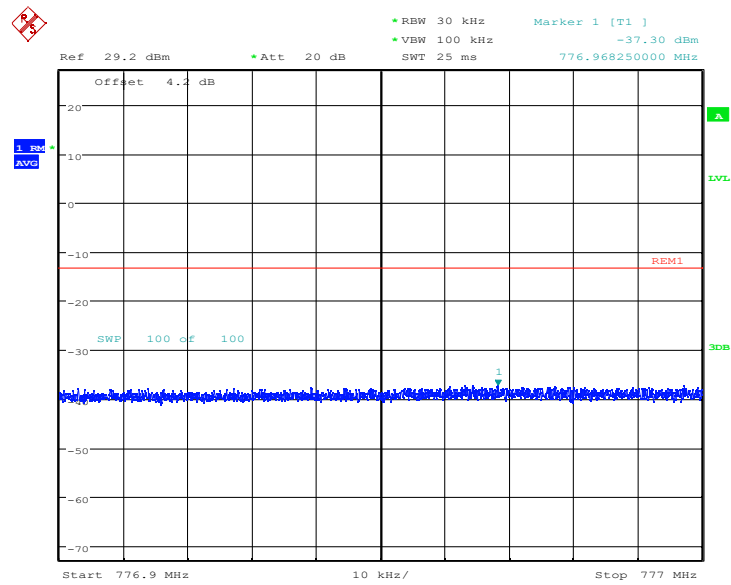


Date: 10.MAY.2024 13:45:03

LOW BAND EDGE BLOCK-10M-100%RB

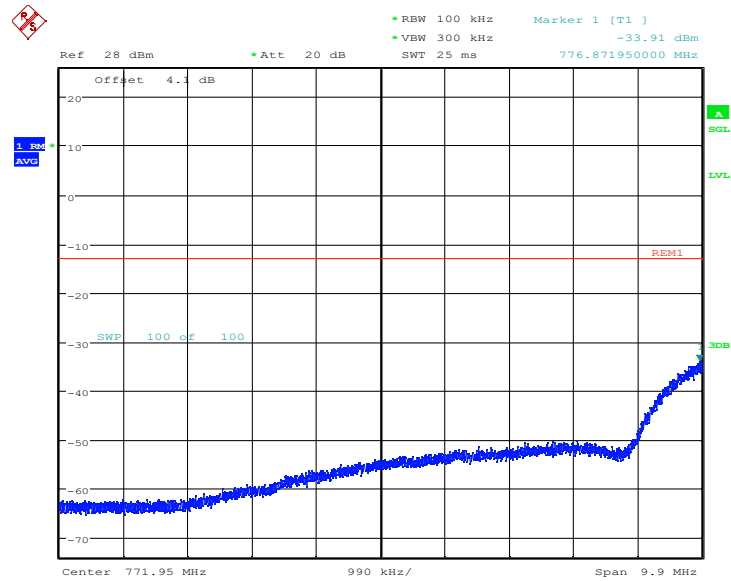
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Date: 10.MAY.2024 13:42:48

LOW BAND EDGE BLOCK-10M-100%RB

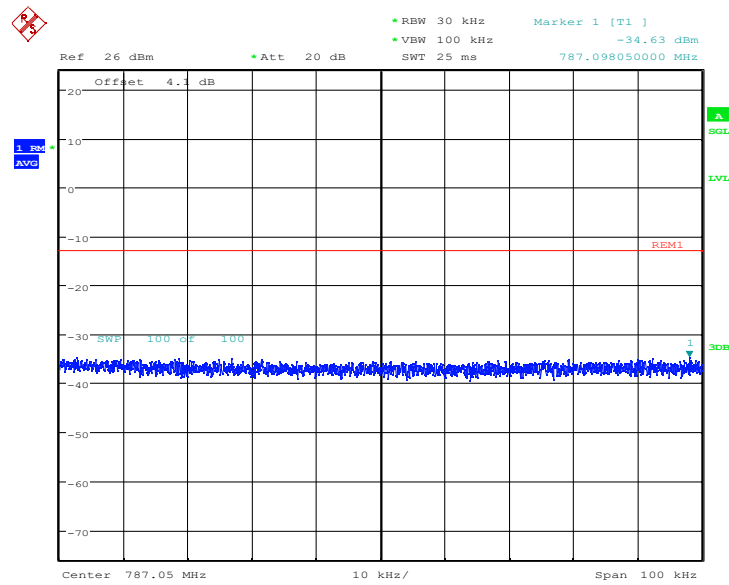


Date: 10.MAY.2024 13:43:34

HIGH BAND EDGE BLOCK-10M-100%RB

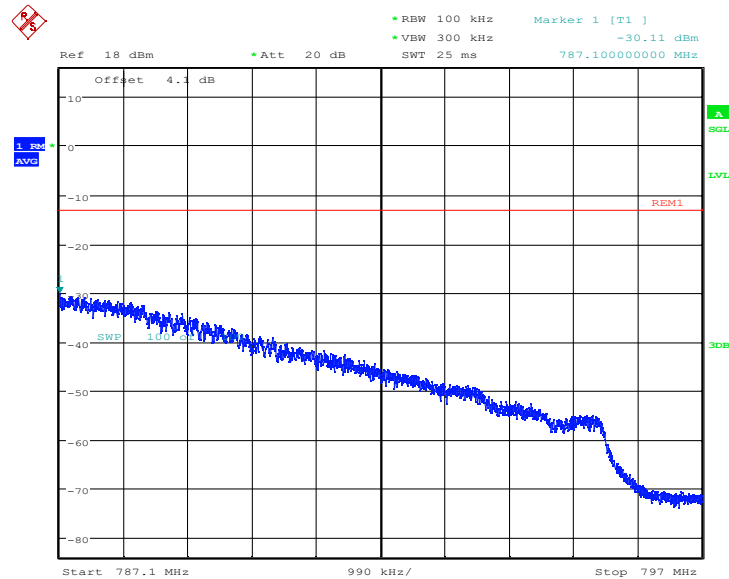
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Date: 10.MAY.2024 13:45:48

HIGH BAND EDGE BLOCK-10M-100%RB



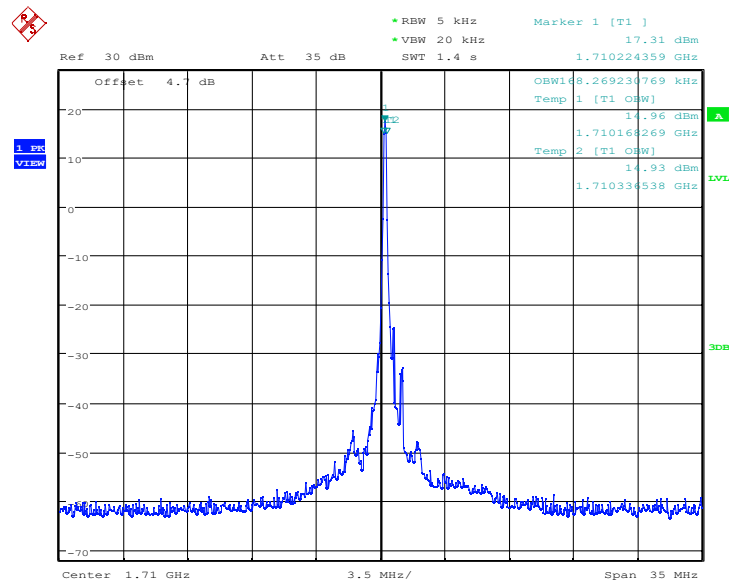
Date: 10.MAY.2024 13:46:35

LTE band 66-1.4MHz

OBW: 1RB-LOW_offset

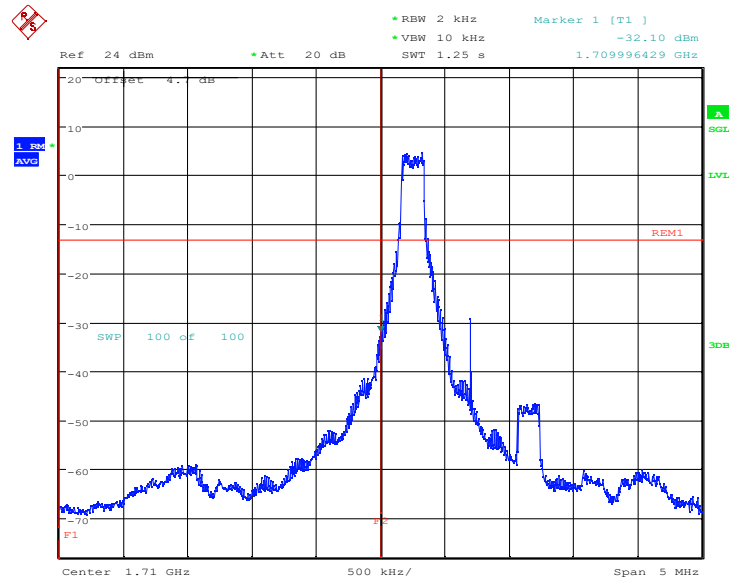
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Date: 9.MAY.2024 17:32:25

LOW BAND EDGE BLOCK-1RB-LOW_offset

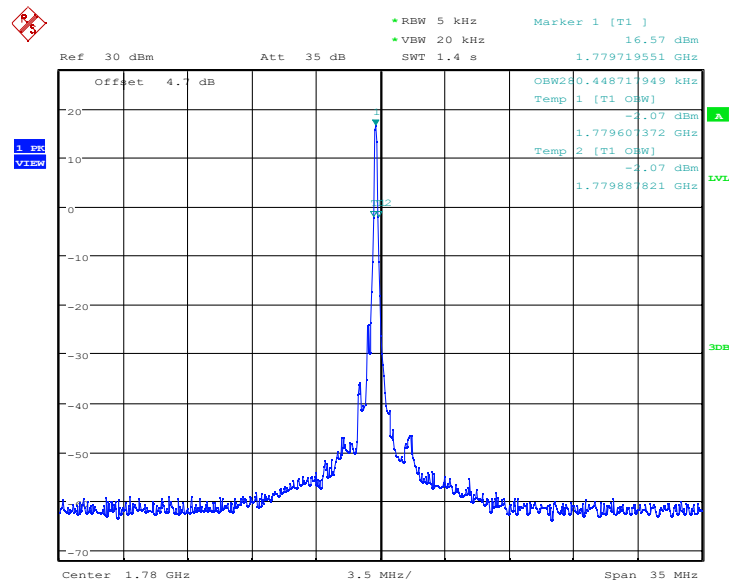


Date: 9.MAY.2024 17:35:10

OBW: 1RB-HIGH_offset

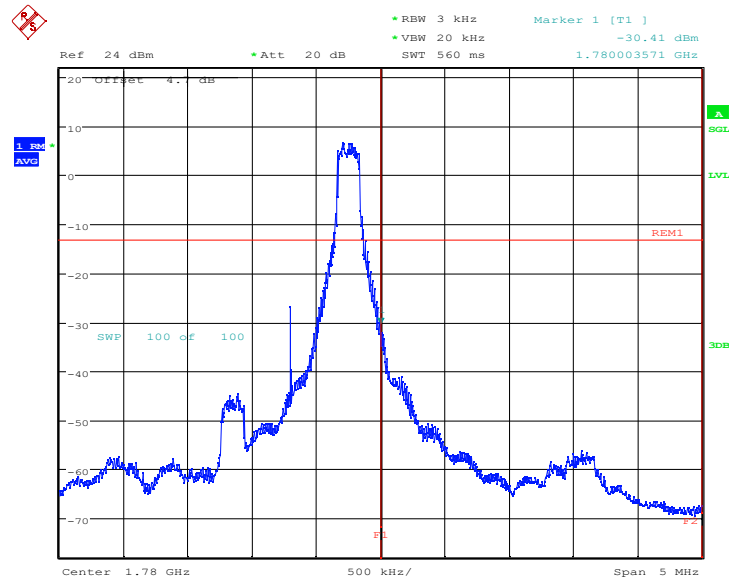
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Date: 9.MAY.2024 17:36:24

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

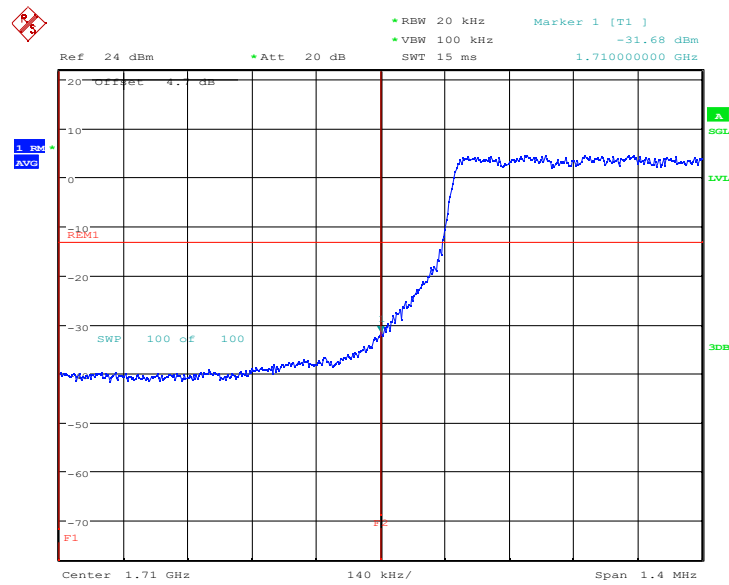


Date: 9.MAY.2024 17:38:00

LOW BAND EDGE BLOCK-1.4M-100%RB

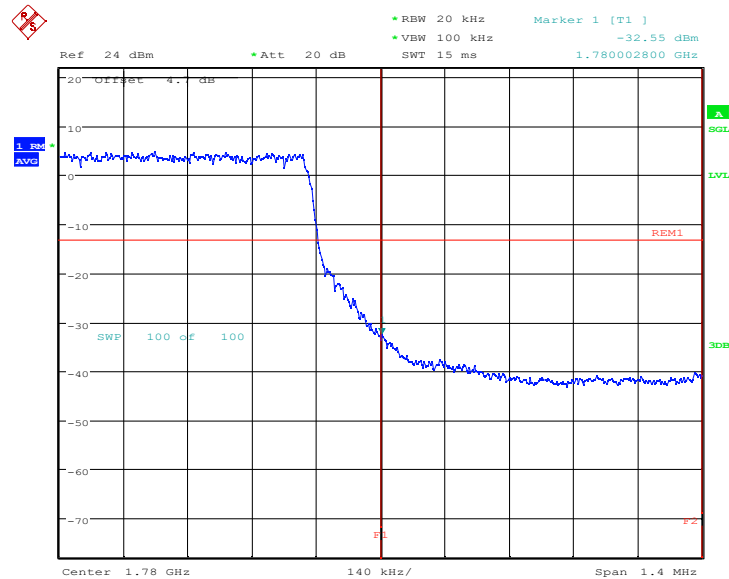
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Date: 9.MAY.2024 17:35:58

HIGH BAND EDGE BLOCK-1.4M-100%RB



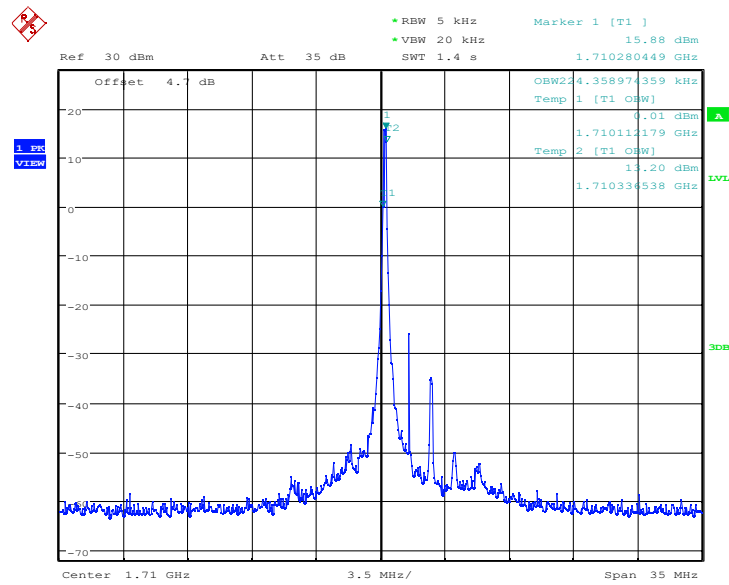
Date: 9.MAY.2024 17:38:43

LTE band 66-3MHz

OBW: 1RB-LOW_offset

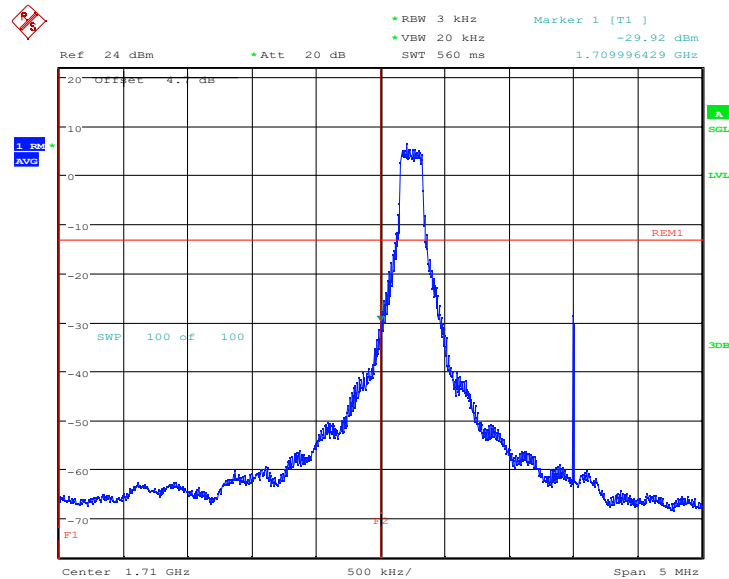
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Date: 9.MAY.2024 17:39:17

LOW BAND EDGE BLOCK-1RB-LOW_offset

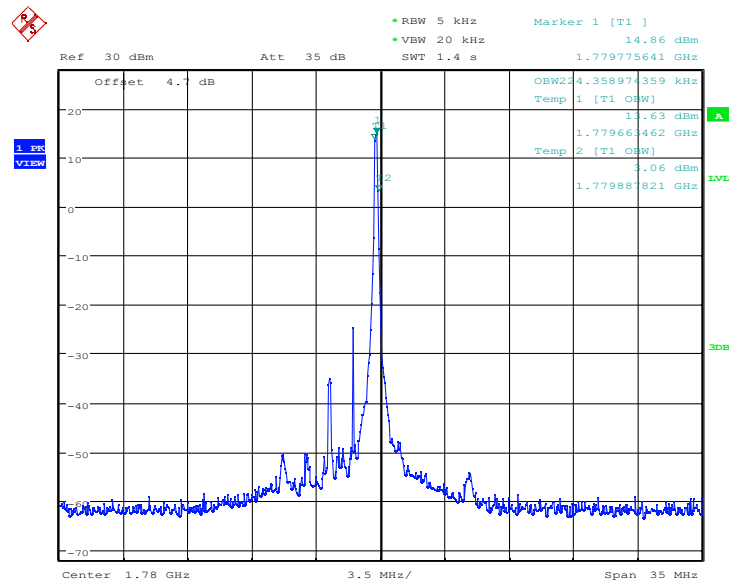


Date: 9.MAY.2024 17:40:54

OBW: 1RB-HIGH_offset

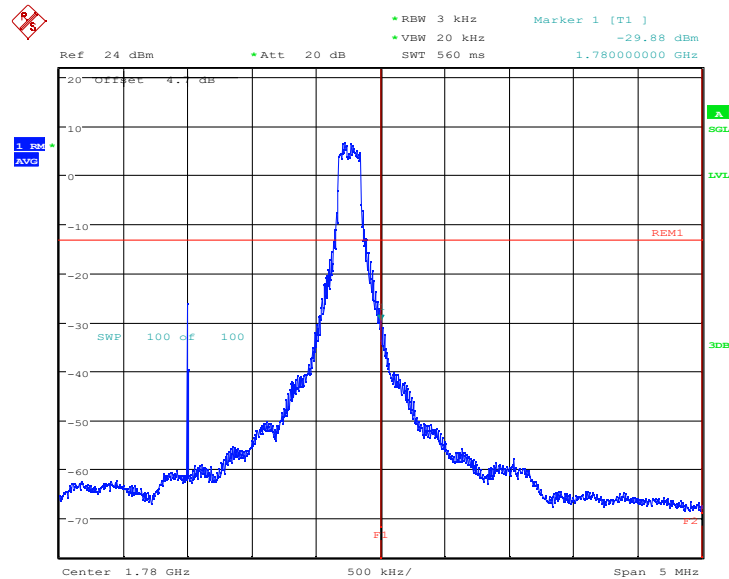
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Date: 9.MAY.2024 17:42:04

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



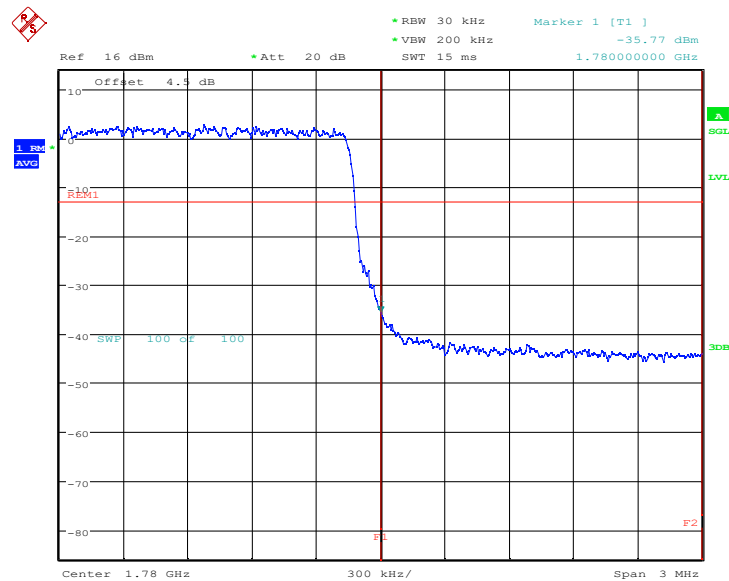
Date: 9.MAY.2024 17:43:41

LOW BAND EDGE BLOCK-3M-100%RB

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

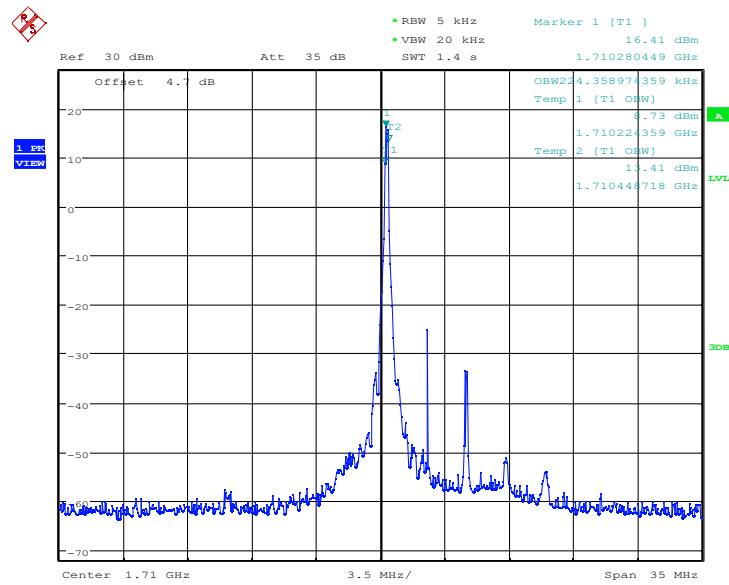
HIGH BAND EDGE BLOCK-3M-100%RB



LTE band 66-5MHz

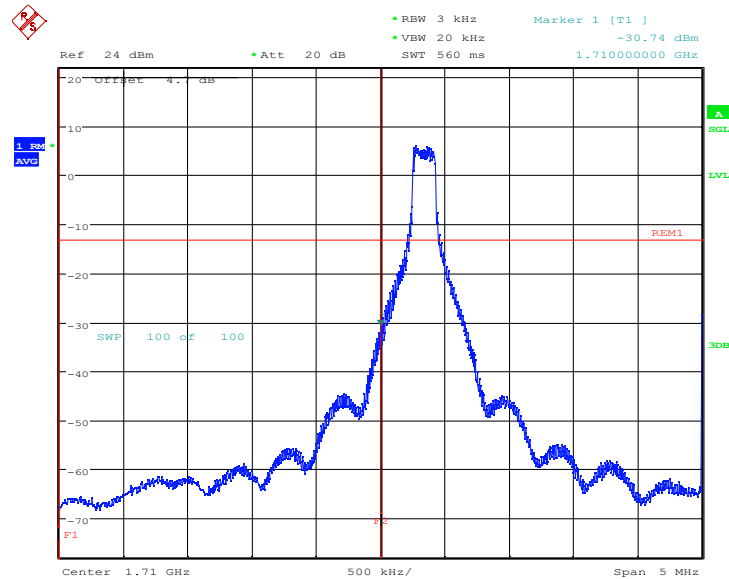
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Date: 9.MAY.2024 15:39:56

LOW BAND EDGE BLOCK-1RB-LOW_offset

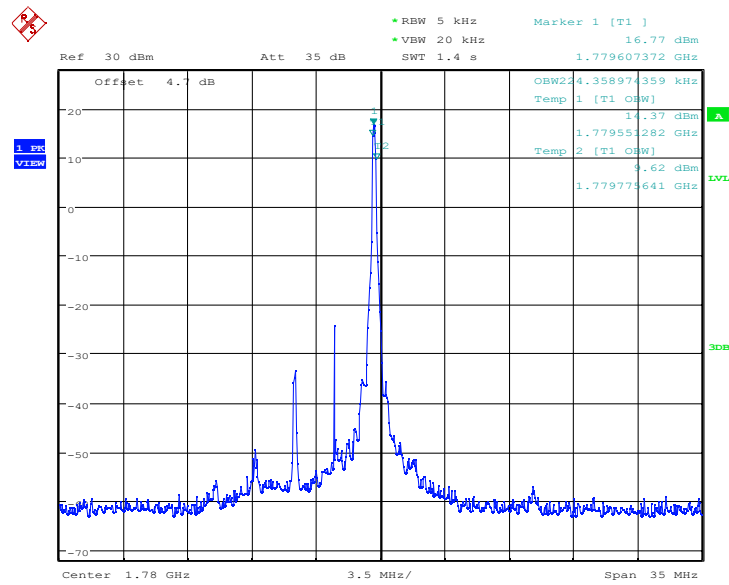


Date: 9.MAY.2024 15:41:34

OBW: 1RB-HIGH_offset

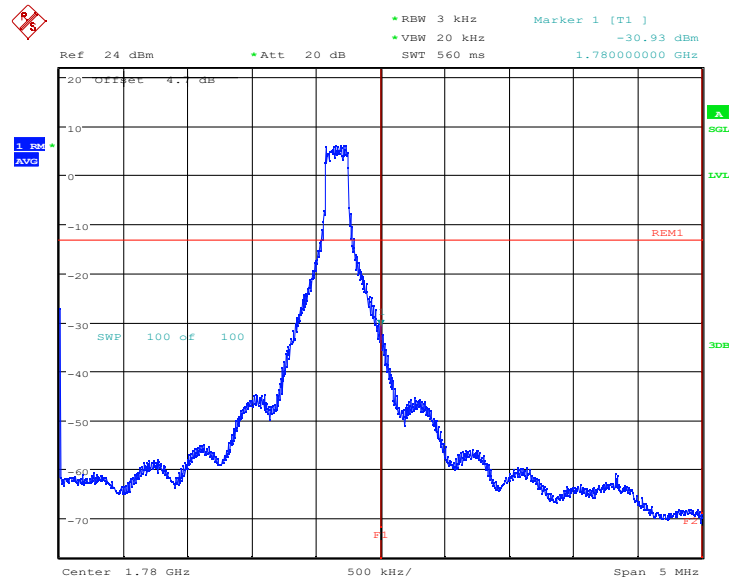
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Date: 9.MAY.2024 15:42:44

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

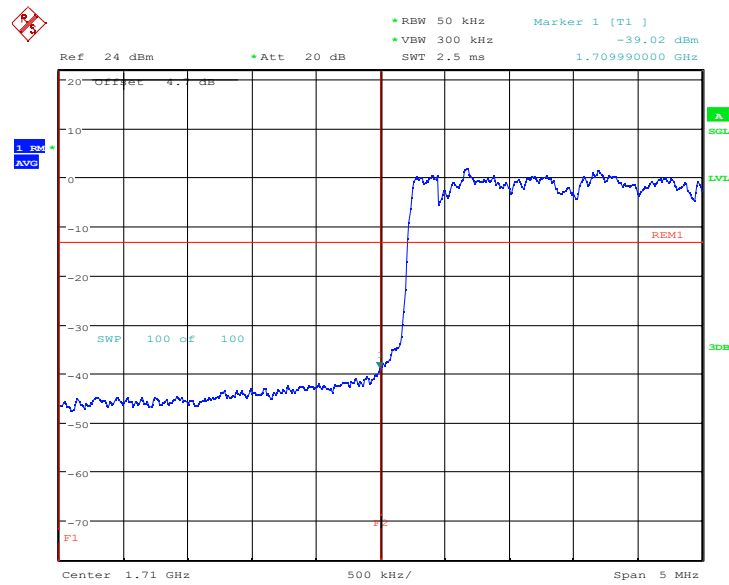


Date: 9.MAY.2024 15:44:20

LOW BAND EDGE BLOCK-5M-100%RB

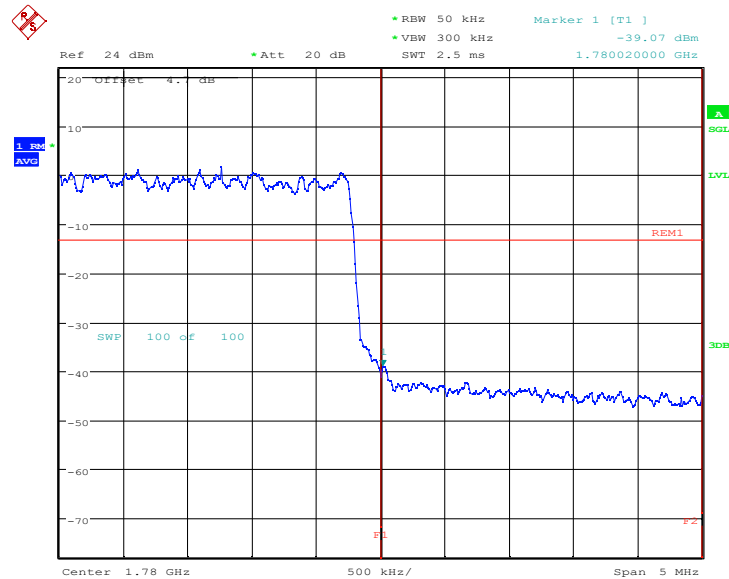
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 15:42:17

HIGH BAND EDGE BLOCK-5M-100%RB



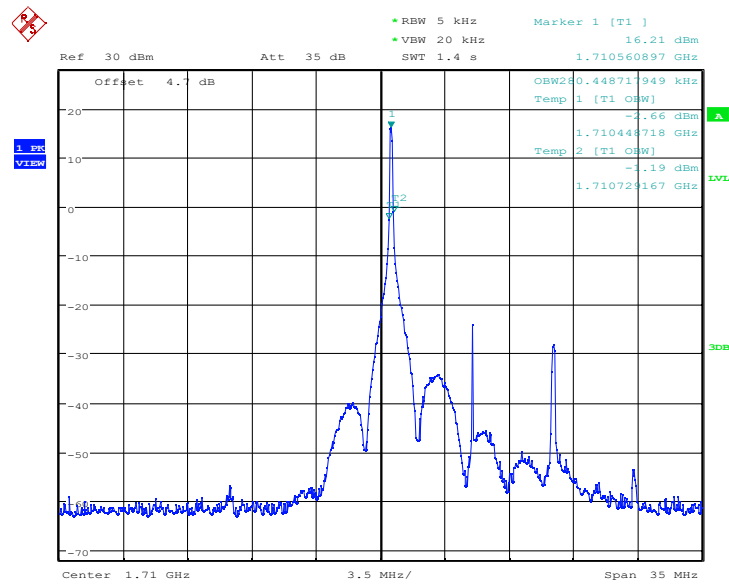
Date: 9.MAY.2024 15:45:02

LTE band 66-10MHz

OBW: 1RB-LOW_offset

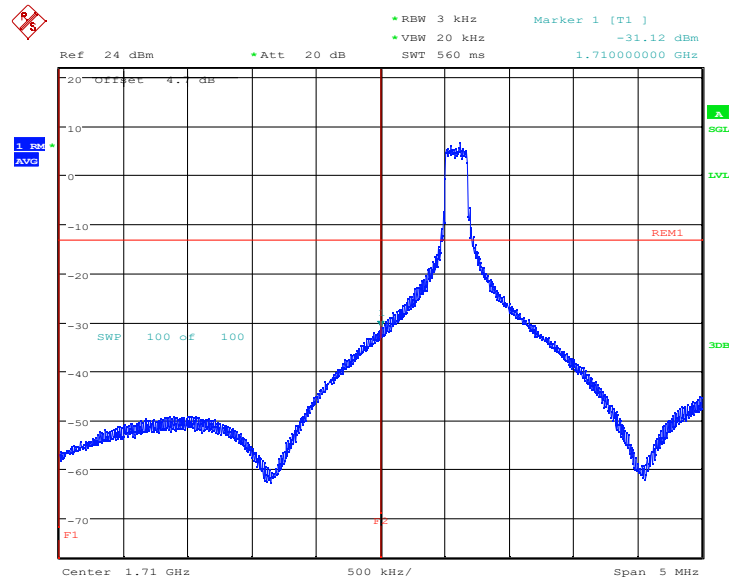
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 15:45:36

LOW BAND EDGE BLOCK-1RB-LOW_offset

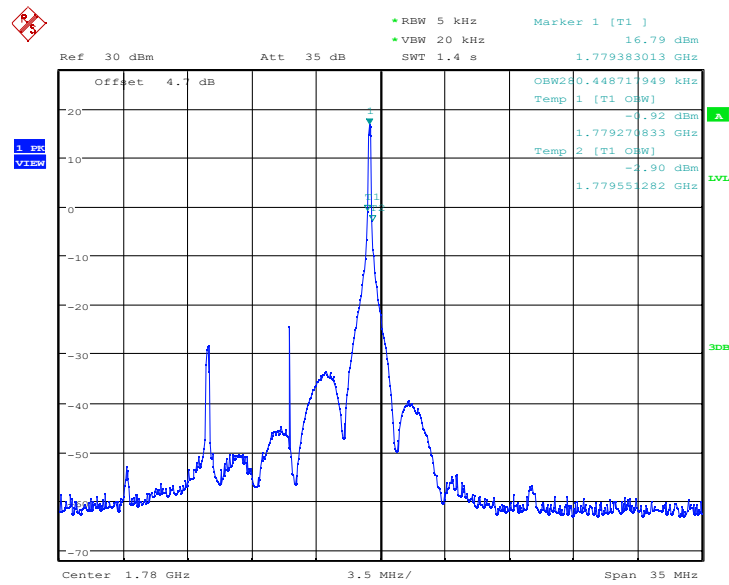


Date: 9.MAY.2024 15:47:13

OBW: 1RB-HIGH_offset

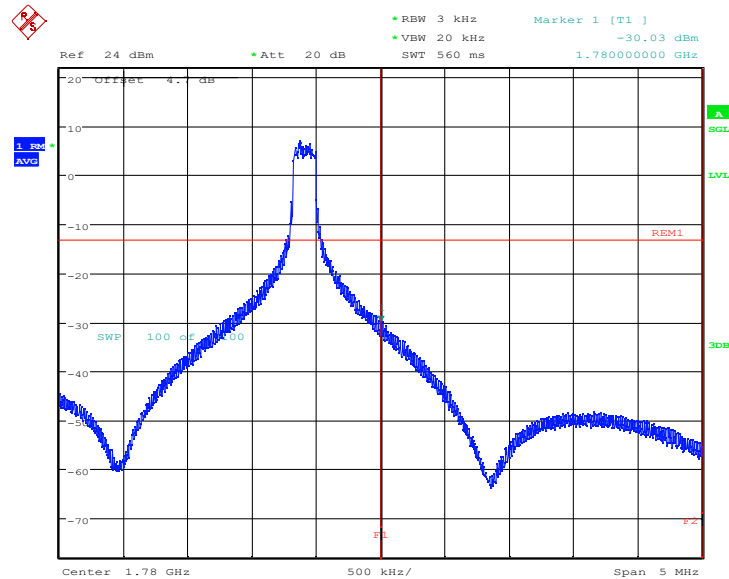
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Date: 9.MAY.2024 15:48:23

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 9.MAY.2024 15:49:59

LOW BAND EDGE BLOCK-10M-100%RB

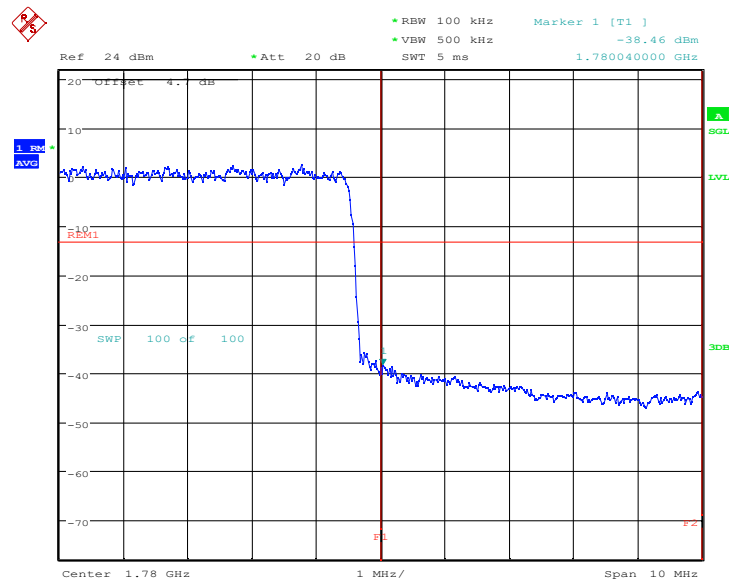
Chongqing Academy of Information and Communication Technology

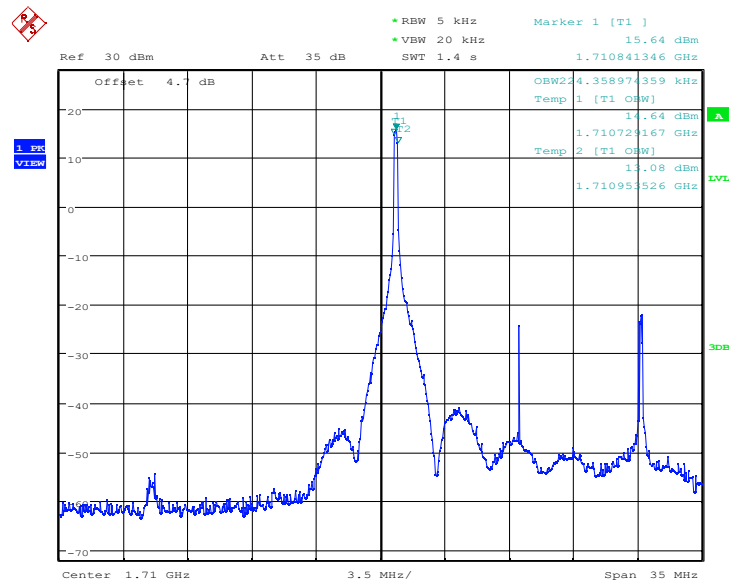
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The image shows a Keysight Spectrum Analyzer display. The main plot area shows a blue trace representing the signal spectrum. The y-axis is labeled 'dB' and ranges from -70 to 20. The x-axis is labeled 'MHz' and ranges from 1.70998 GHz to 1.71002 GHz. A red vertical line is positioned at 1.70998 GHz, labeled 'F1'. A red horizontal line is at -40 dB, labeled 'RM1'. A blue trace shows a noise floor at approximately -40 dBm and a signal at approximately -37.74 dBm. The signal is a 100 kHz tone centered at 1.70998 GHz. The display includes various parameters: Ref 24 dBm, Att 20 dB, RBW 100 kHz, VBW 500 kHz, Span 10 MHz, Center 1.71 GHz, and 1 MHz/.

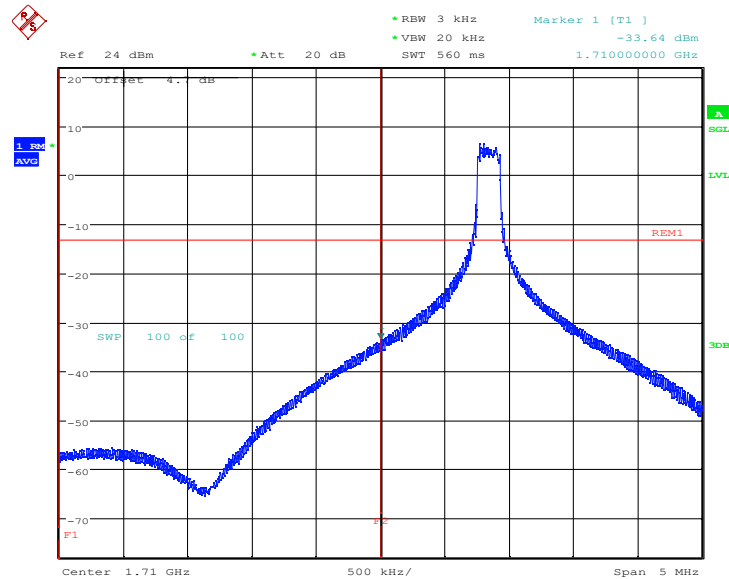
HIGH BAND EDGE BLOCK-10M-100%RB

**OBW: 1RB-LOW_offset**



Date: 9.MAY.2024 15:51:17

LOW BAND EDGE BLOCK-1RB-LOW_offset

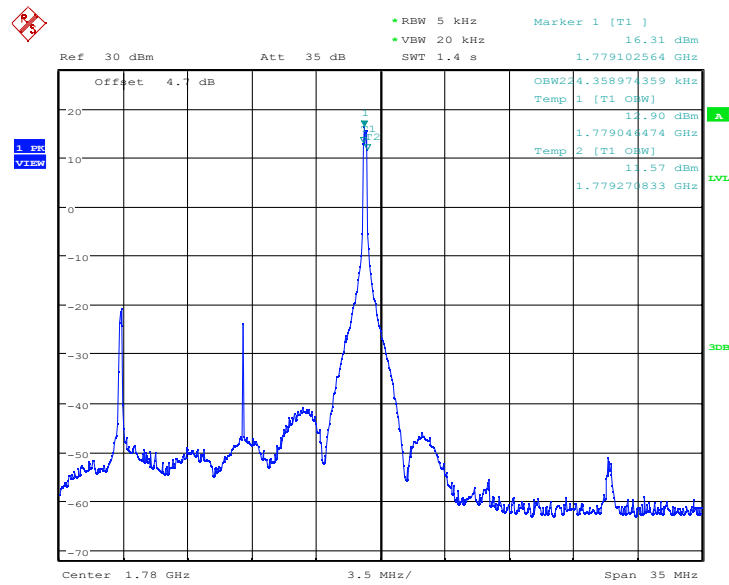


Date: 9.MAY.2024 15:52:54

OBW: 1RB-HIGH_offset

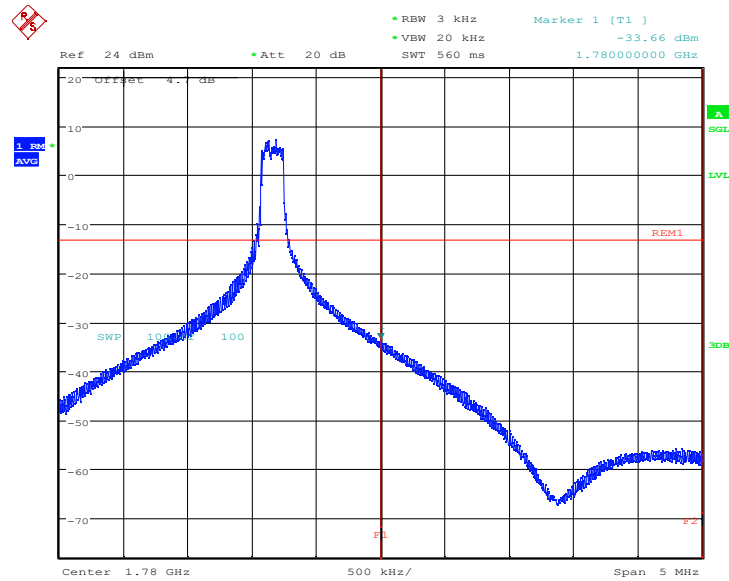
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Date: 9.MAY.2024 15:54:04

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

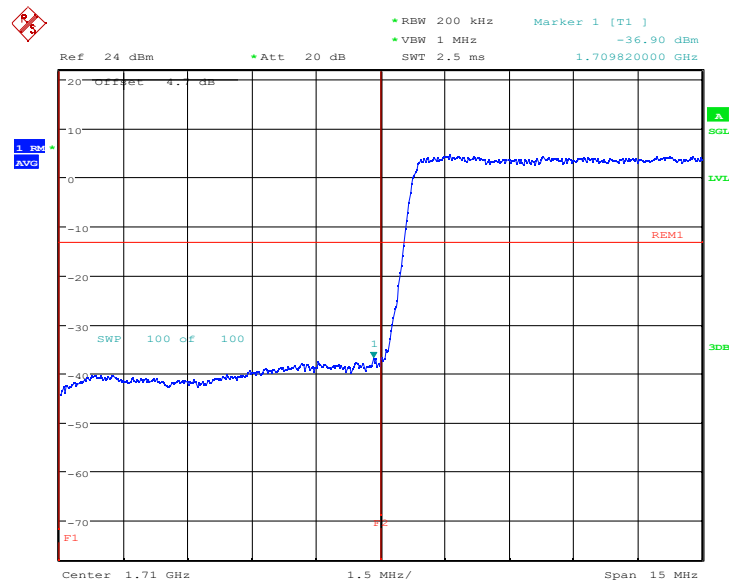


Date: 9.MAY.2024 15:55:41

LOW BAND EDGE BLOCK-15M-100%RB

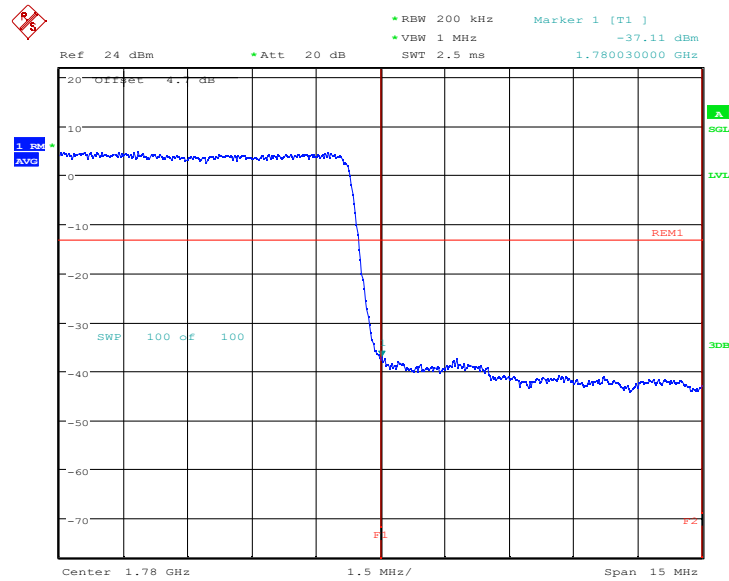
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 9.MAY.2024 15:53:38

HIGH BAND EDGE BLOCK-15M-100%RB



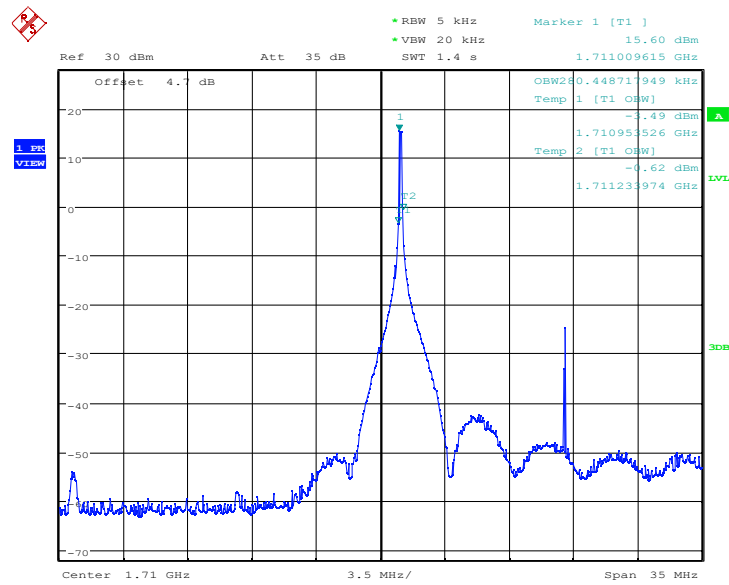
Date: 9.MAY.2024 15:56:25

LTE band 66-20MHz

OBW: 1RB-LOW_offset

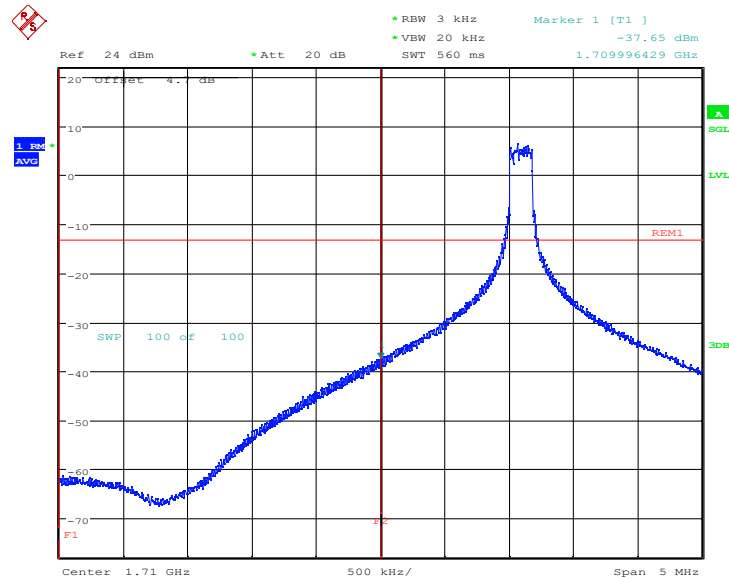
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 15:56:59

LOW BAND EDGE BLOCK-1RB-LOW_offset

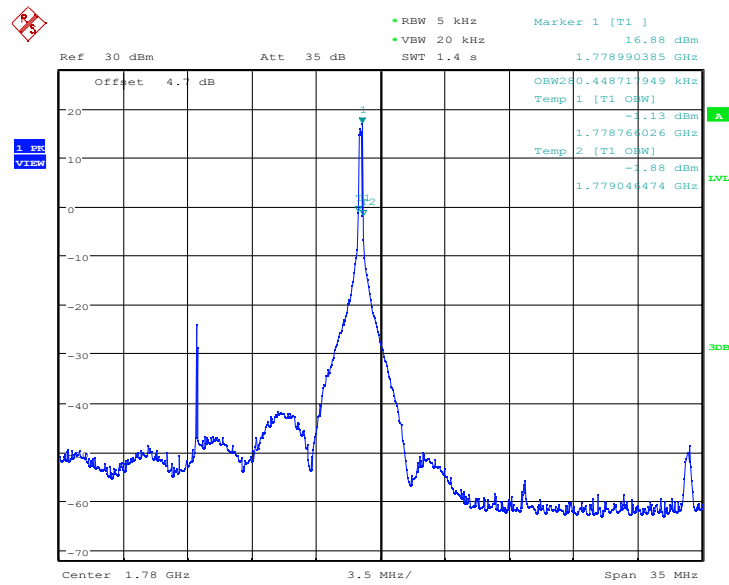


Date: 9.MAY.2024 15:58:36

OBW: 1RB-HIGH_offset

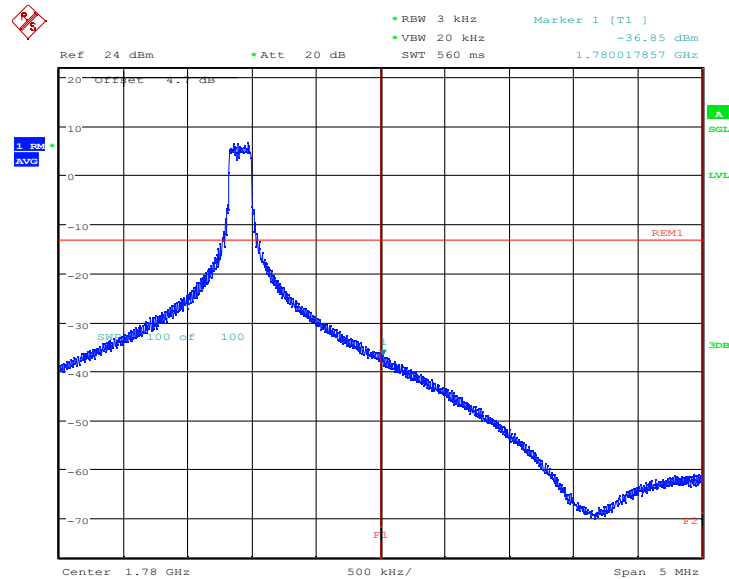
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Date: 9.MAY.2024 15:59:49

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

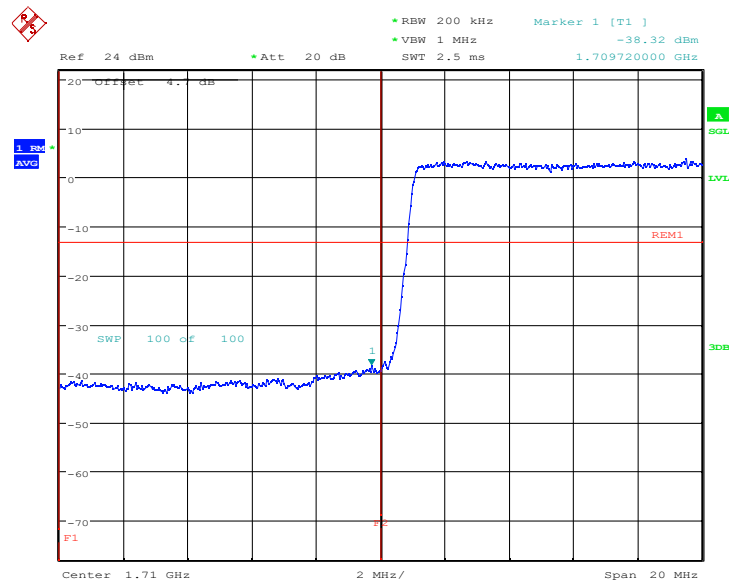


Date: 9.MAY.2024 16:01:26

LOW BAND EDGE BLOCK-20M-100%RB

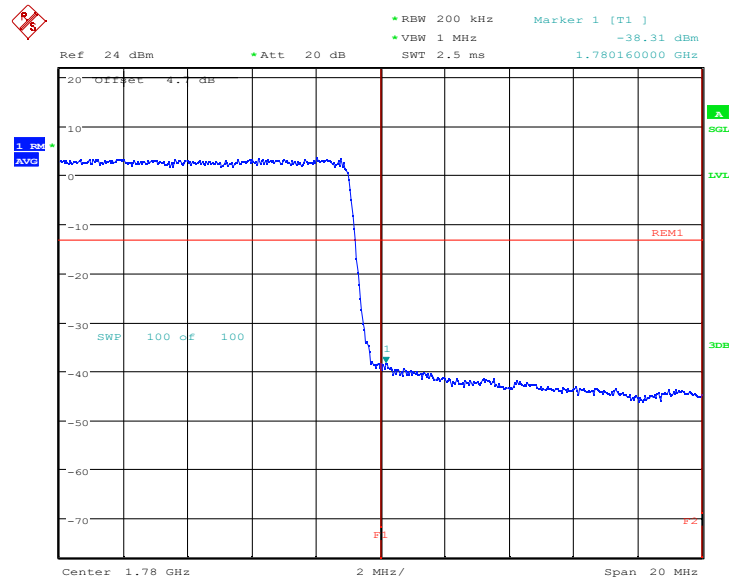
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 9.MAY.2024 15:59:20

HIGH BAND EDGE BLOCK-20M-100%RB



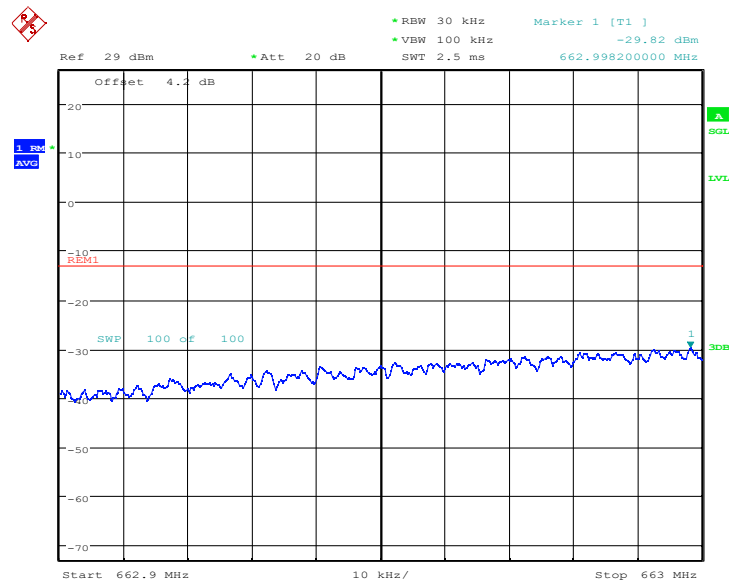
Date: 9.MAY.2024 16:02:11

LTE band 71-5MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

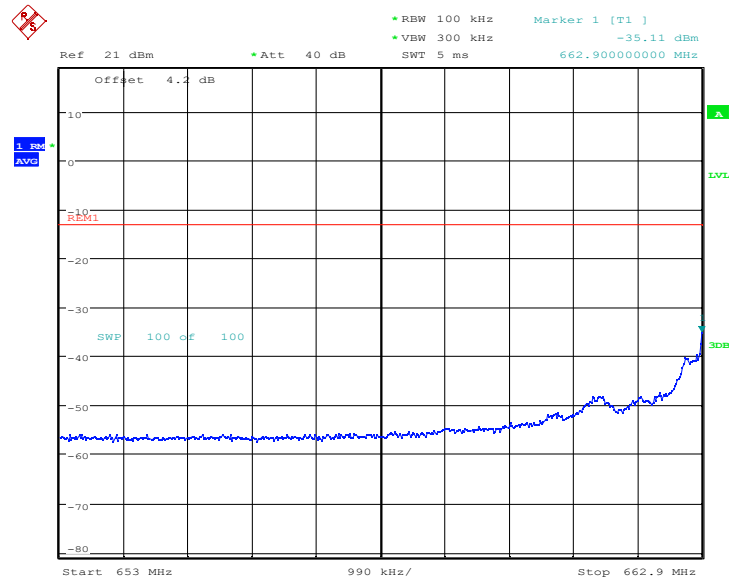
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 10:40:53

LOW BAND EDGE BLOCK-1RB-LOW_offset

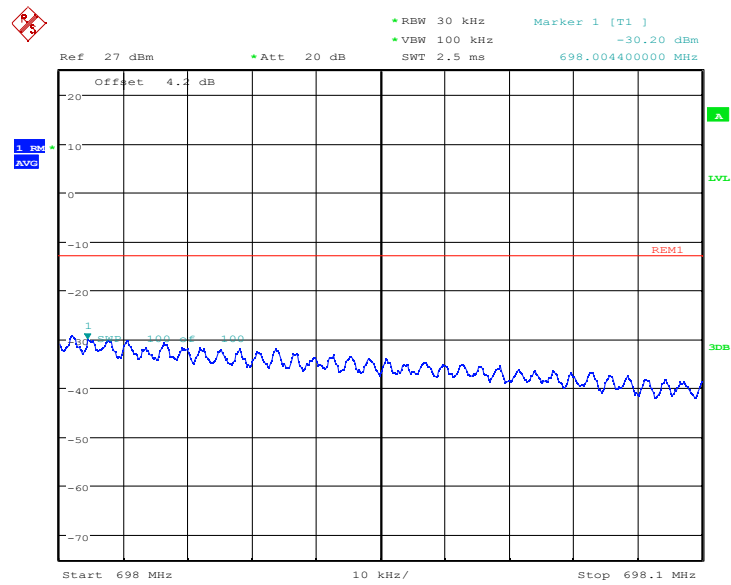


Date: 10.MAY.2024 10:43:02

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

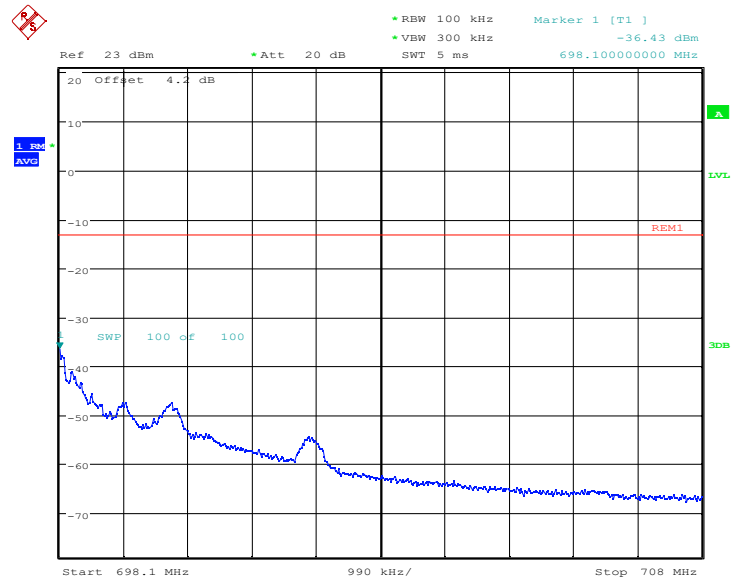
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 10:45:47

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

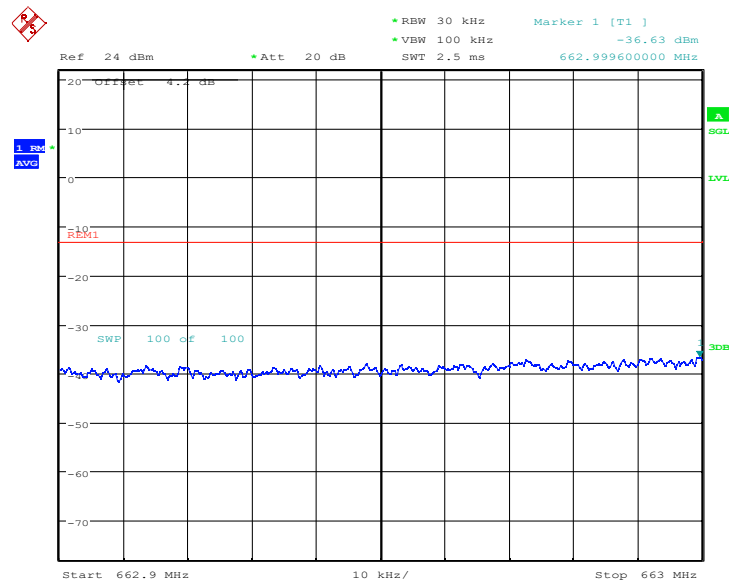


Date: 10.MAY.2024 10:47:21

LOW BAND EDGE BLOCK-5M-100%RB

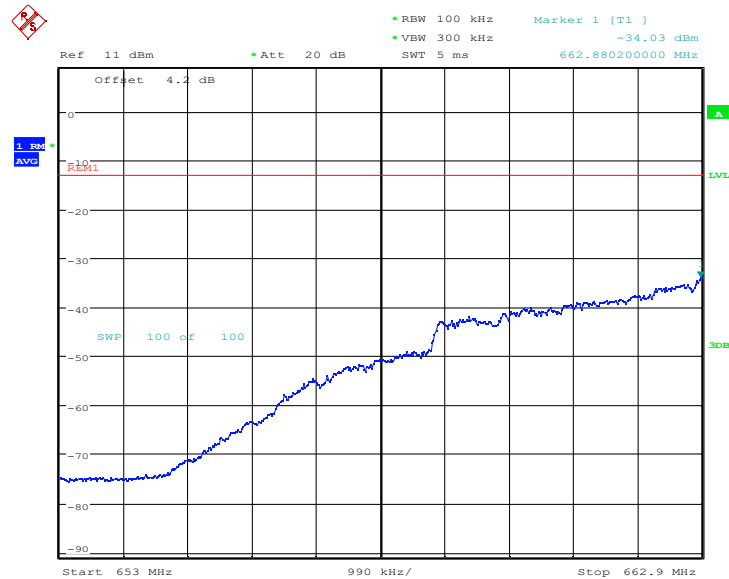
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 10:43:57

LOW BAND EDGE BLOCK-5M-100%RB

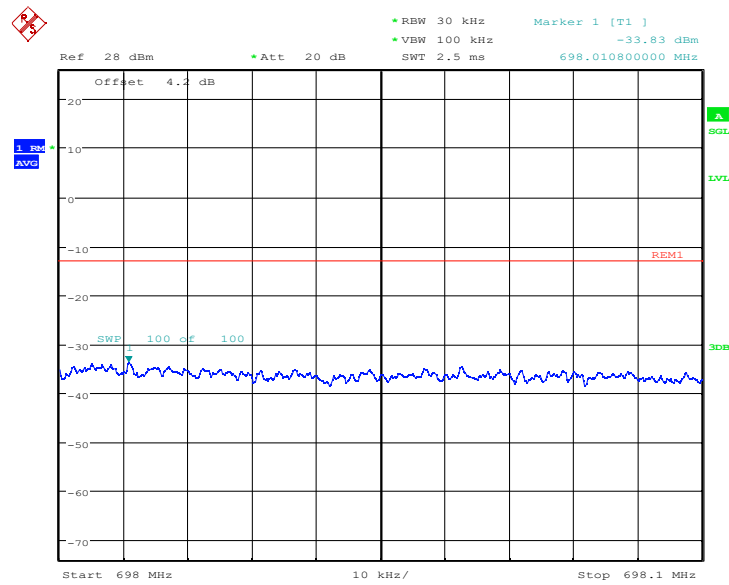


Date: 10.MAY.2024 10:44:40

HIGH BAND EDGE BLOCK-5M-100%RB

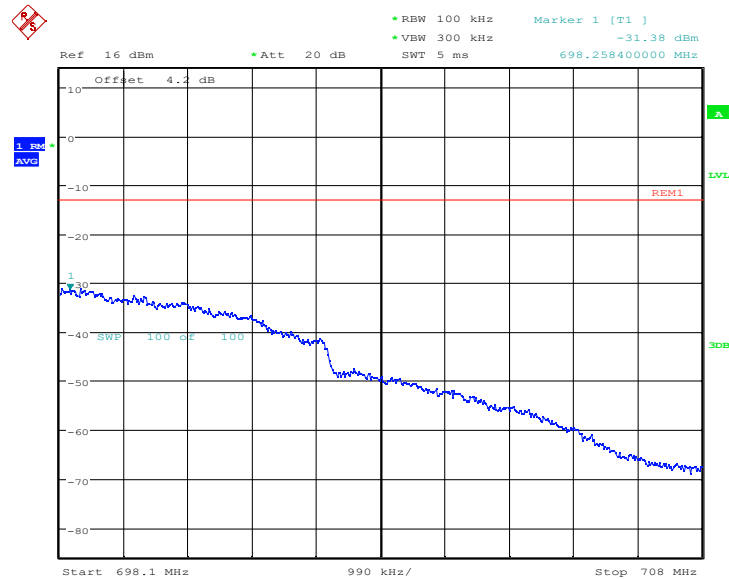
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Date: 10.MAY.2024 10:48:03

HIGH BAND EDGE BLOCK-5M-100%RB



Date: 10.MAY.2024 10:48:50

LTE band 71-10MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

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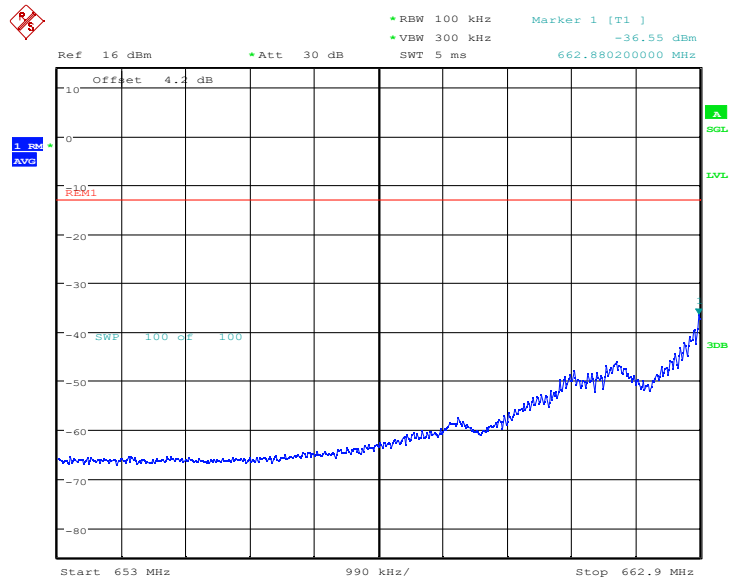
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Ref 29.2 dBm • Att 20 dB • RBW 30 kHz Marker 1 [T1] -32.00 dBm
 • VBW 100 kHz SWT 2.5 ms 662.996800000 MHz

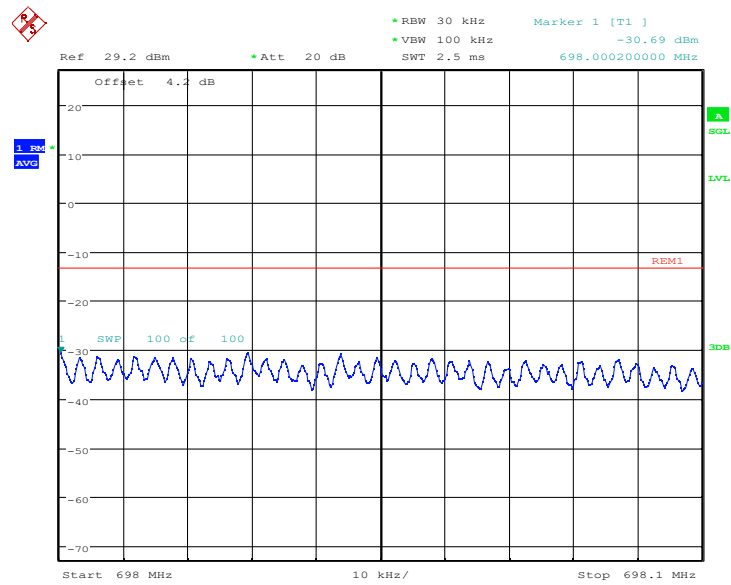
Offset 4.2 dB
 -10 dBm
 SWP 100 of 100
 Start 662.9 MHz 10 kHz/ Stop 663 MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset



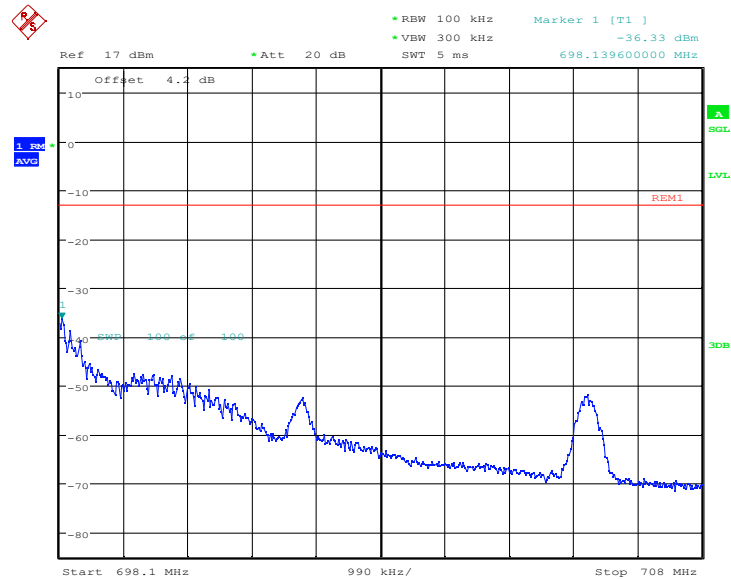
HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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



Date: 10.MAY.2024 10:56:42

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

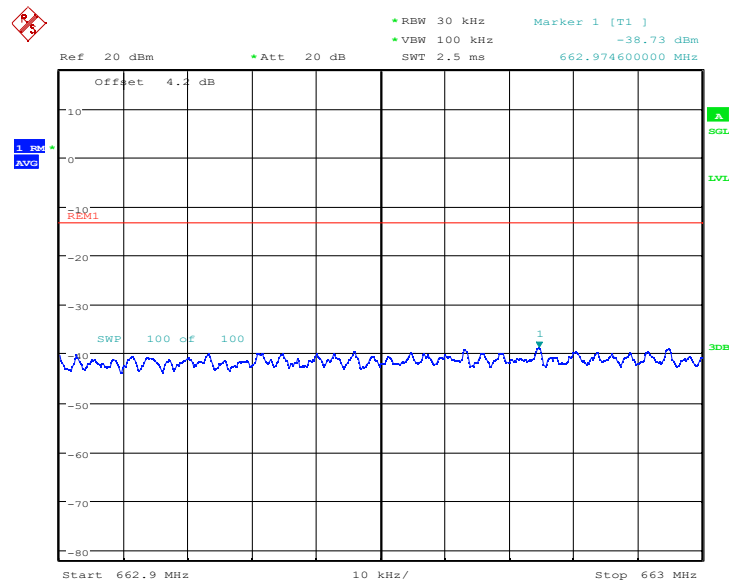


Date: 10.MAY.2024 10:57:30

LOW BAND EDGE BLOCK-10M-100%RB

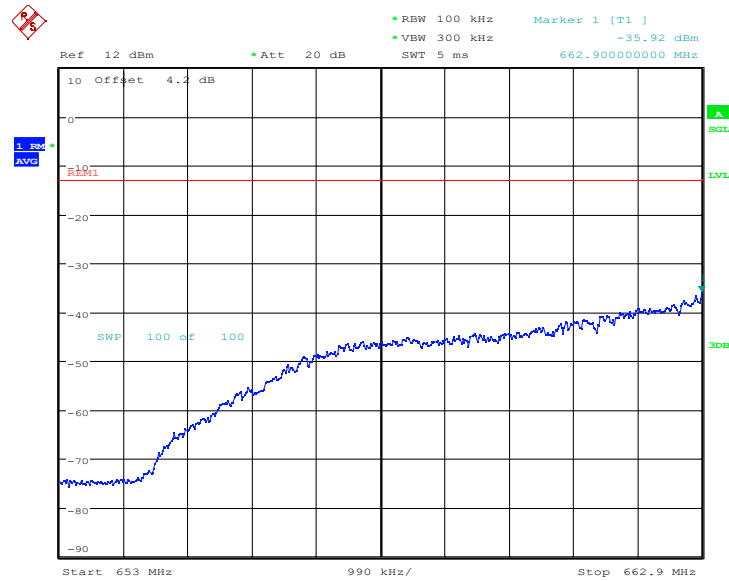
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 10.MAY.2024 10:54:52

LOW BAND EDGE BLOCK-10M-100%RB

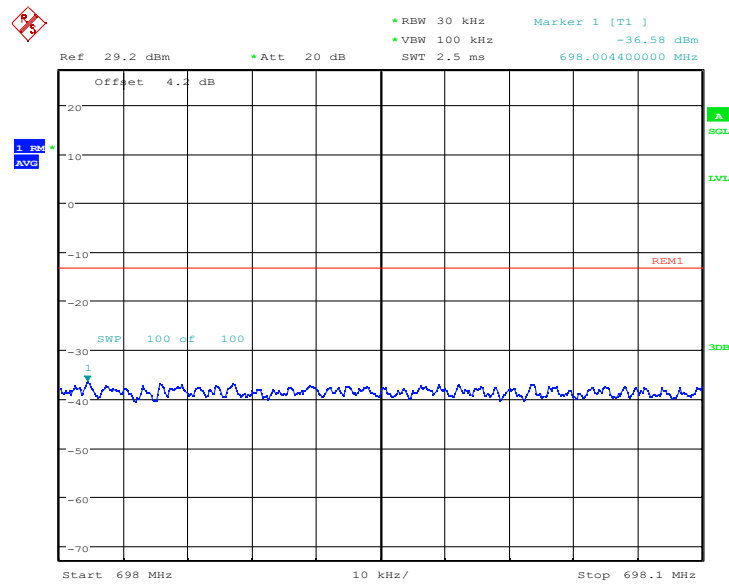


Date: 10.MAY.2024 10:55:35

HIGH BAND EDGE BLOCK-10M-100%RB

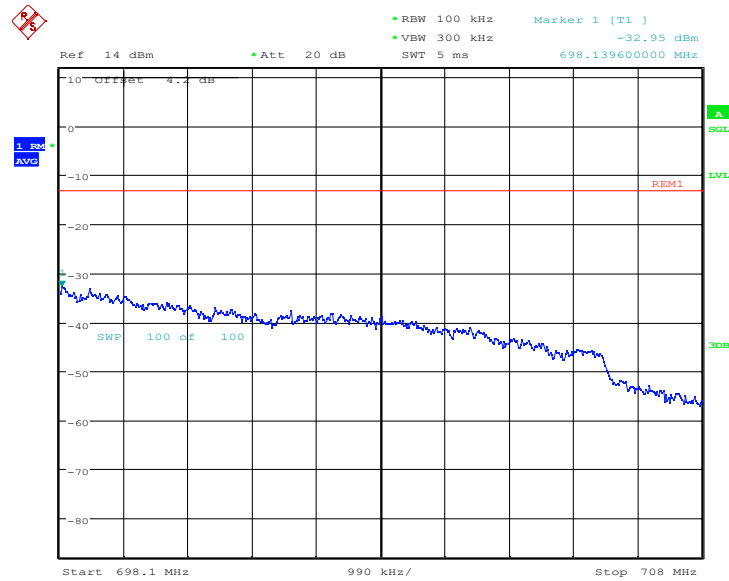
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Date: 10.MAY.2024 11:03:45

HIGH BAND EDGE BLOCK-10M-100%RB



Date: 10.MAY.2024 11:04:29

LTE band 71-15MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

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* RBW 30 kHz
 * VBW 100 kHz
 SWT 2.5 ms
 Marker 1 [T1]
 -35.64 dBm
 662.964000000 MHz

Ref 29.2 dBm
 Att 20 dB

Offset 4.2 dB

1 dB
 AVG

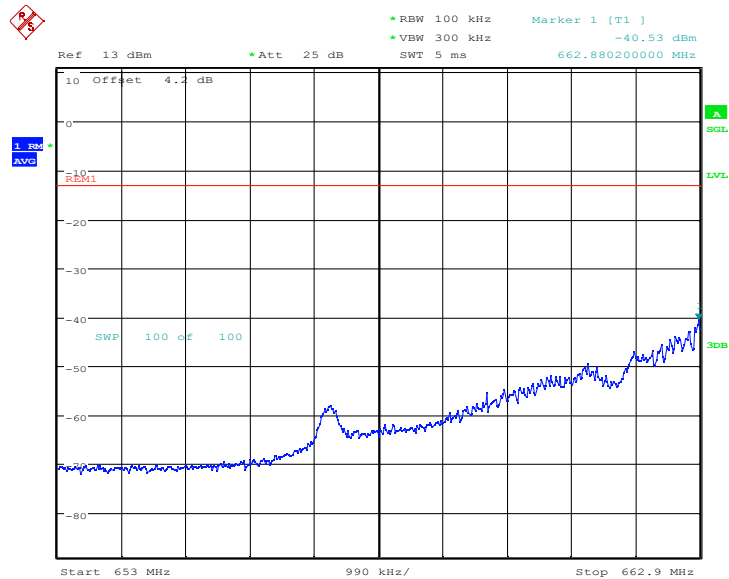
-10
 RBW1

SWP 100 of 100

1

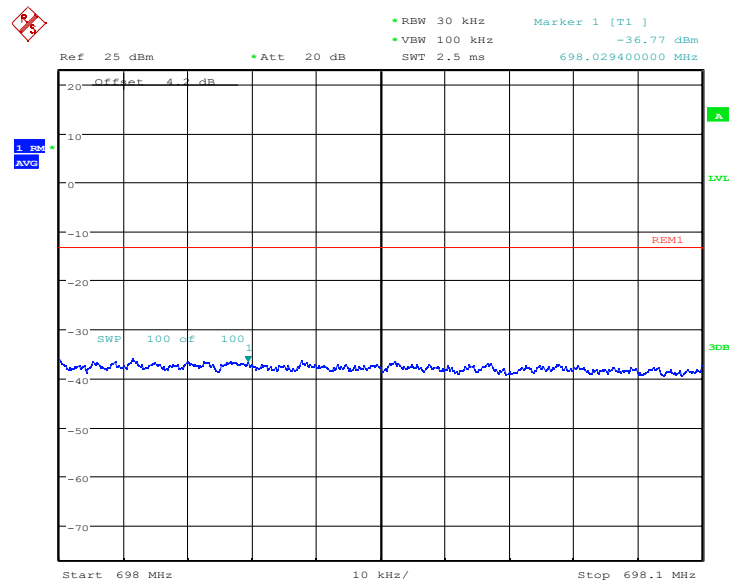
Start 662.9 MHz
 10 kHz/
 Stop 663 MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset



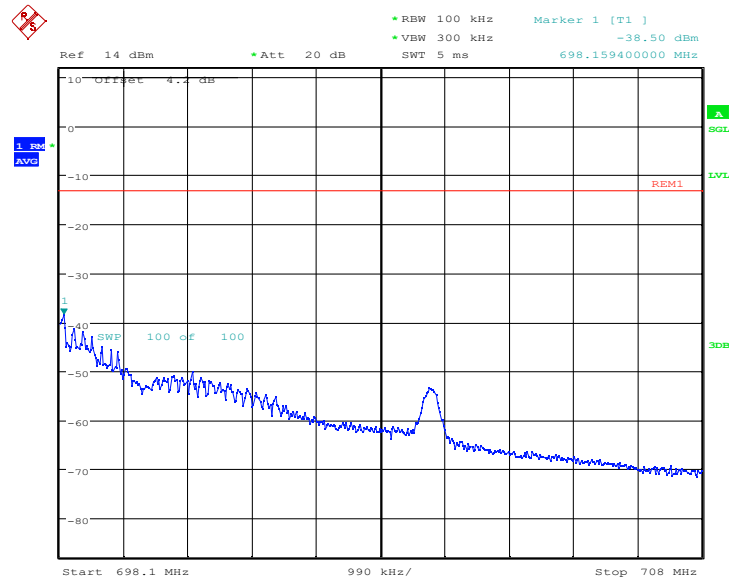
HIGH BAND EDGE BLOCK-1RB-HIGH_offset

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Date: 10.MAY.2024 11:10:19

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

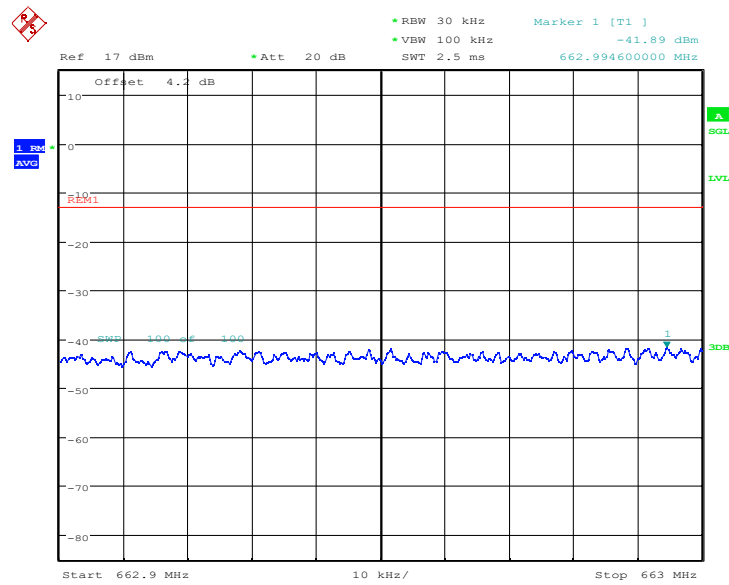


Date: 10.MAY.2024 11:11:02

LOW BAND EDGE BLOCK-15M-100%RB

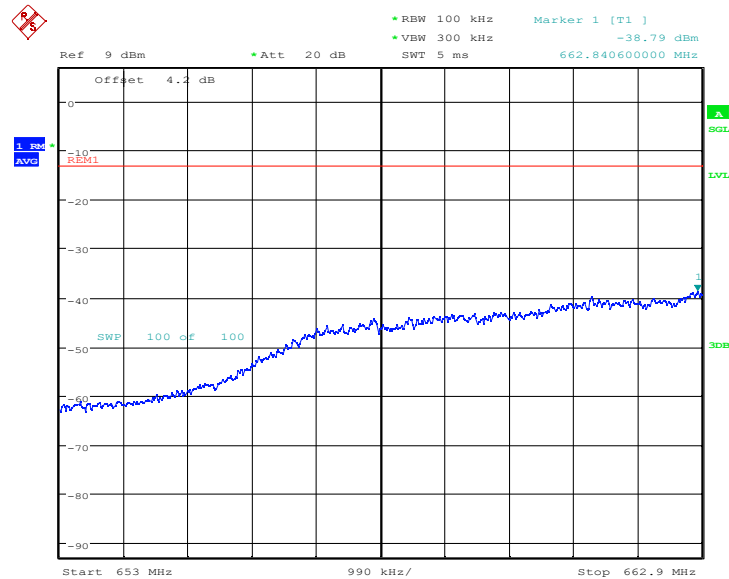
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Date: 10.MAY.2024 11:08:29

LOW BAND EDGE BLOCK-15M-100%RB

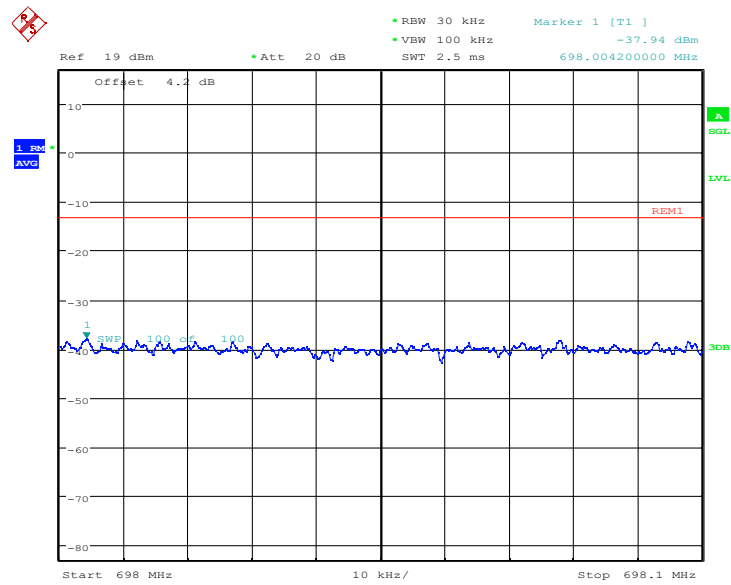


Date: 10.MAY.2024 11:09:11

HIGH BAND EDGE BLOCK-15M-100%RB

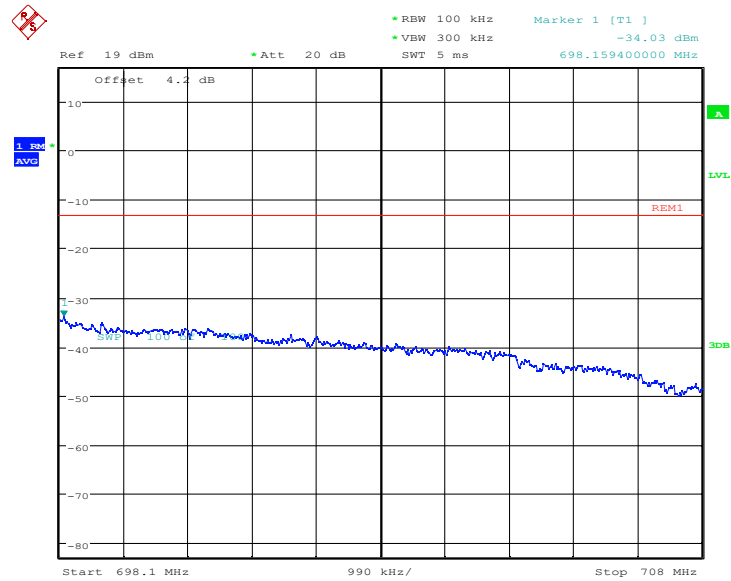
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Date: 10.MAY.2024 11:11:45

HIGH BAND EDGE BLOCK-15M-100%RB



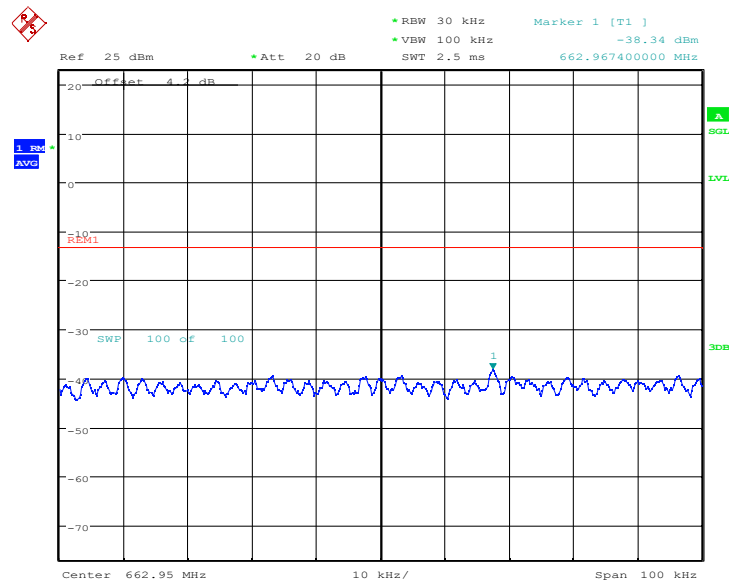
Date: 10.MAY.2024 11:12:29

LTE band 71-20MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset

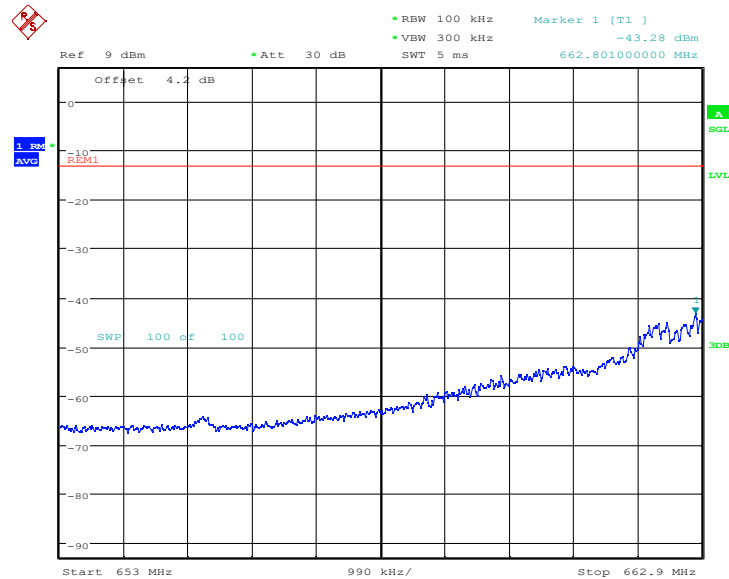
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Date: 10.MAY.2024 11:14:43

LOW BAND EDGE BLOCK-1RB-LOW_offset

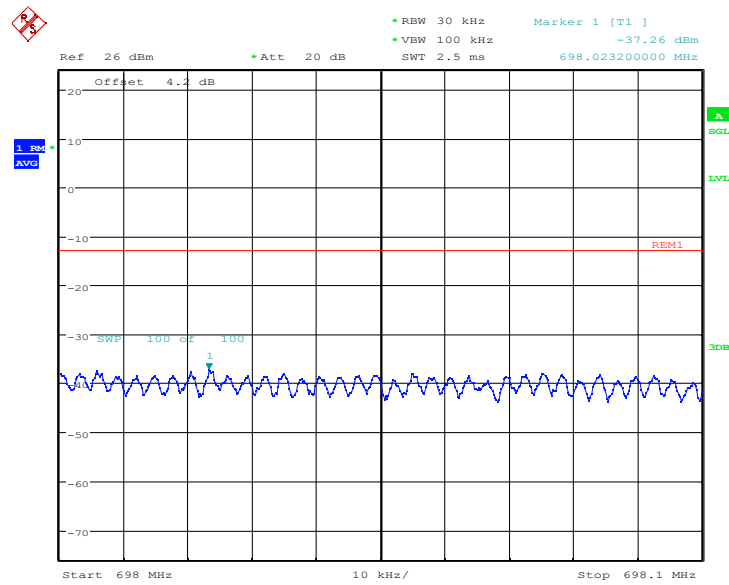


Date: 10.MAY.2024 11:15:38

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

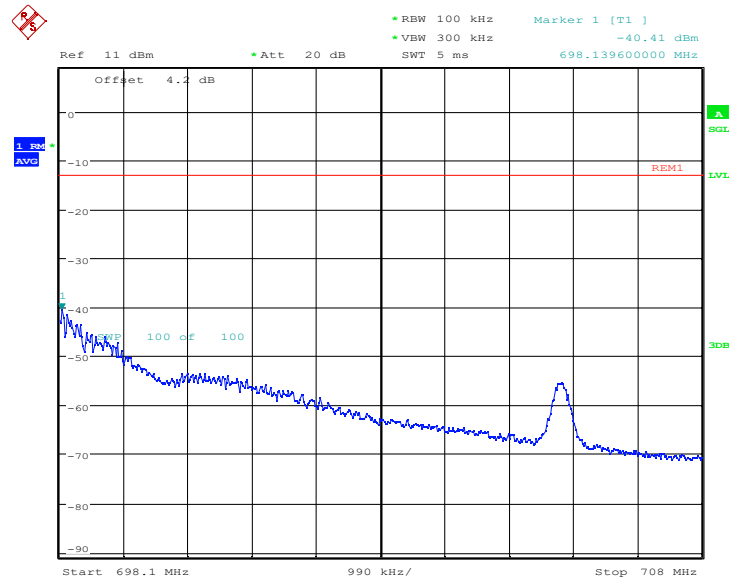
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Date: 10.MAY.2024 11:18:11

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

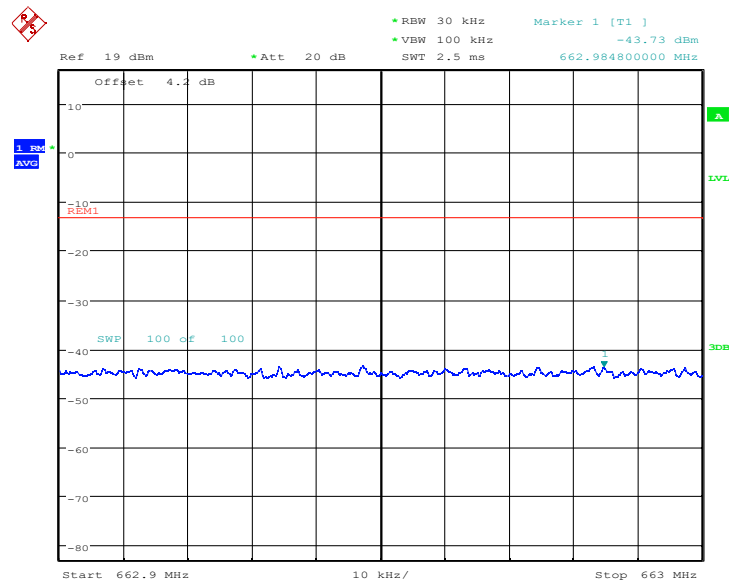


Date: 10.MAY.2024 11:19:23

LOW BAND EDGE BLOCK-20M-100%RB

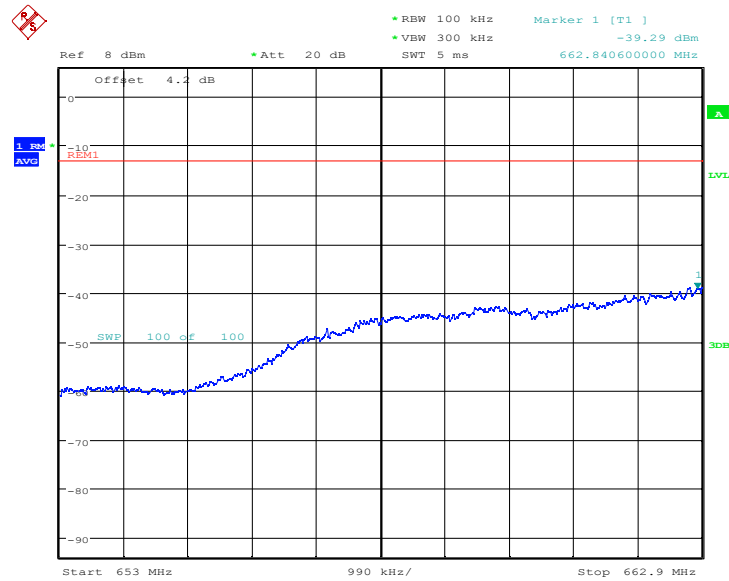
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Date: 10.MAY.2024 11:16:20

LOW BAND EDGE BLOCK-20M-100%RB

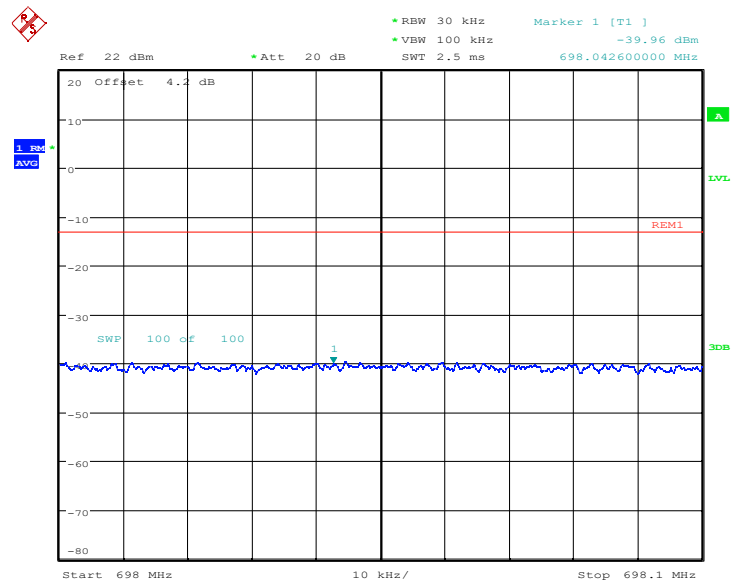


Date: 10.MAY.2024 11:17:04

HIGH BAND EDGE BLOCK-20M-100%RB

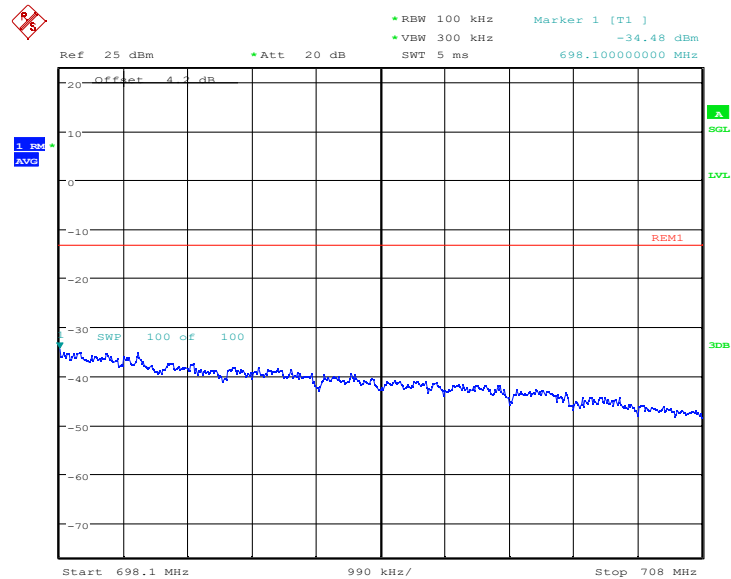
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Date: 10.MAY.2024 11:20:05

HIGH BAND EDGE BLOCK-20M-100%RB



Date: 10.MAY.2024 11:20:50

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6.8. Frequency Stability

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	IMEI:865357069912010
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% 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 0.1 Volt 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 MID,QPSK-1RB(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	-3.98	0.0021
50			-3.28	0.0017
40			-2.53	0.0013
30			-1.46	0.0008
10			-0.46	0.0002
0			-0.99	0.0005
-10			0.11	0.0001
-20			-0.34	0.0002
-30			-0.99	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	1880	-0.24	0.0001
4.2			-0.60	0.0003

LTE band 4, 20MHz bandwidth MID,QPSK-1RB(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	-3.22	0.0019
50			-2.33	0.0013
40			-1.49	0.0009
30			-0.60	0.0003
10			0.16	0.0001
0			-0.66	0.0004
-10			0.22	0.0001
-20			-0.42	0.0002
-30			0.44	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	1732.5	-0.22	0.0001
4.2			-0.26	0.0001

LTE band 5, 10MHz bandwidth MID,QPSK-1RB(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	-2.93	0.0035

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50			-2.45	0.0029
40			-2.16	0.0026
30			-1.16	0.0014
10			-0.86	0.0010
0			-2.05	0.0024
-10			-0.04	0.0001
-20			0.11	0.0001
-30			1.22	0.0015

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	836.5	-0.10	0.0001
4.2			-2.39	0.0029

LTE band 12, 10MHz bandwidth MID,QPSK-1RB(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	707.5	-2.48	0.0035
50			-2.38	0.0034
40			-2.73	0.0039
30			-1.36	0.0019
10			-2.06	0.0029
0			-2.25	0.0032
-10			-1.77	0.0025
-20			-1.22	0.0017
-30			-2.59	0.0037

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	707.5	-2.25	0.0032
4.2			-1.60	0.0023

LTE band 13, 10MHz bandwidth MID,QPSK-1RB(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	782	-1.97	0.0025
50			0.26	0.0003
40			-0.77	0.0010
30			-1.10	0.0014
10			2.39	0.0031
0			-1.49	0.0019
-10			0.39	0.0005

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-20			-1.27	0.0016
-30			-1.14	0.0015

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	782	0.22	0.0003
4.2			-0.33	0.0004

LTE band 66, 20MHz bandwidth MID,QPSK-1RB(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	-2.50	0.0014
50			-2.13	0.0012
40			-1.75	0.0010
30			-0.04	0.0000
10			-1.65	0.0009
0			-1.60	0.0009
-10			-1.96	0.0011
-20			0.17	0.0001
-30			-0.97	0.0006

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	1745	-1.66	0.0010
4.2			-1.30	0.0007

LTE band 71, 20MHz bandwidth MID,QPSK-1RB(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	683	-2.28	0.0033
50			-1.62	0.0024
40			-2.26	0.0033
30			-1.06	0.0016
10			-1.02	0.0015
0			-1.67	0.0025
-10			-0.66	0.0010
-20			1.70	0.0025
-30			-0.57	0.0008

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.3	20	683	-2.30	0.0034
4.2			-1.55	0.0023

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6.9. Peak to Average Ratio

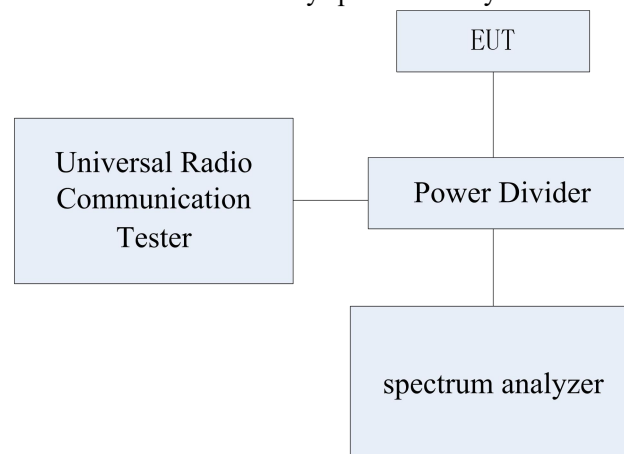
Specifications:	FCC Part 24.232, 27.50
DUT Serial Number:	IMEI:865357069912010
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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	0.22 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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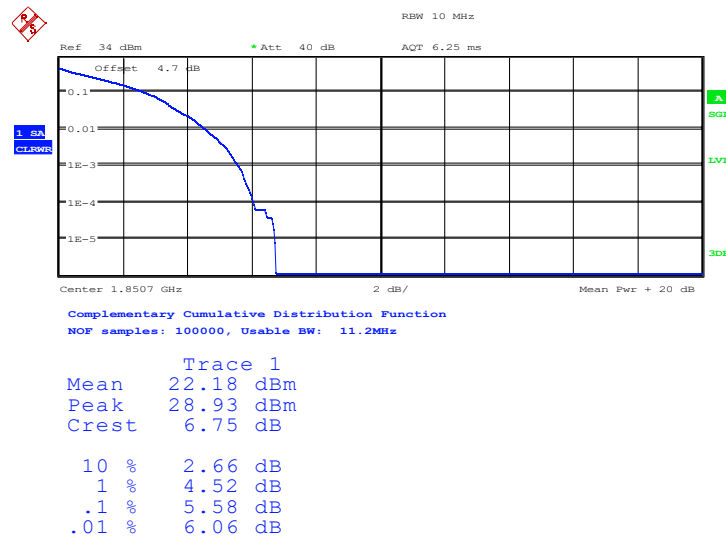
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6.9.1 Peak to Average Ratio Results

LTE Band 2, BW1_4MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1850.7	100%,0	5.58	6.25
1880	100%,0	5.71	6.54
1909.3	100%,0	5.29	6.22

LTE band 2 , 1.4MHz Bandwidth,QPSK

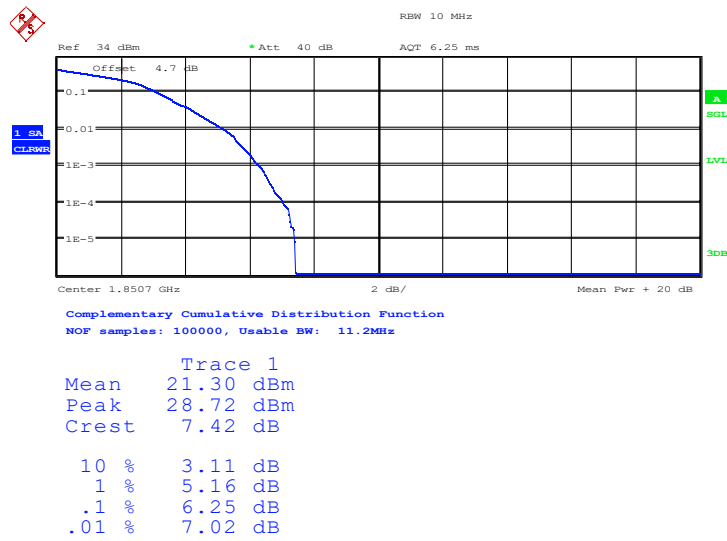


Date: 9.MAY.2024 16:29:44

LTE band 2 , 1.4MHz Bandwidth,16QAM

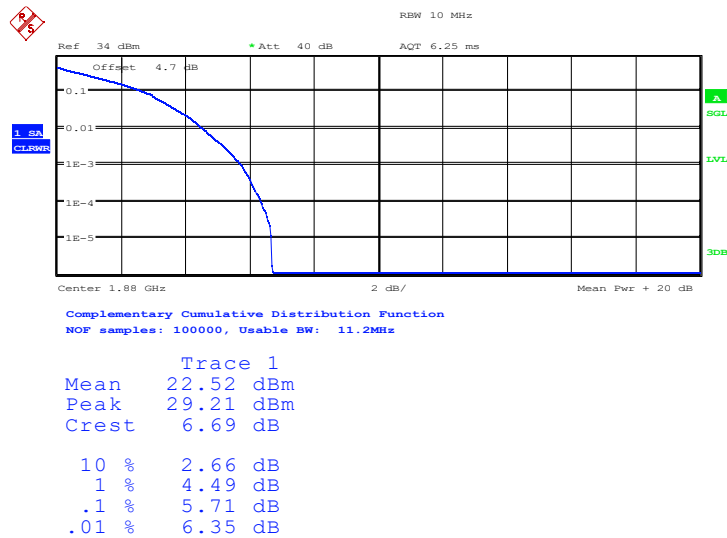
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Date: 9.MAY.2024 16:29:58

LTE band 2 , 1.4MHz Bandwidth,QPSK

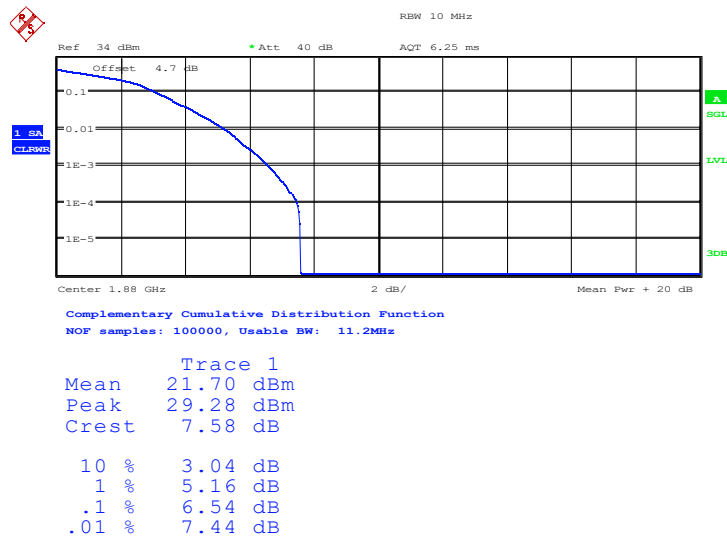


Date: 9.MAY.2024 16:30:21

LTE band 2 , 1.4MHz Bandwidth,16QAM

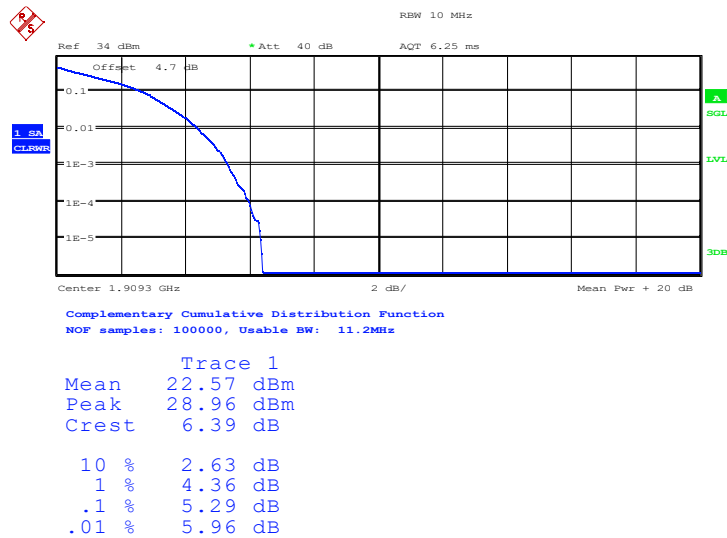
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Date: 9.MAY.2024 16:30:46

LTE band 2 , 1.4MHz Bandwidth,QPSK

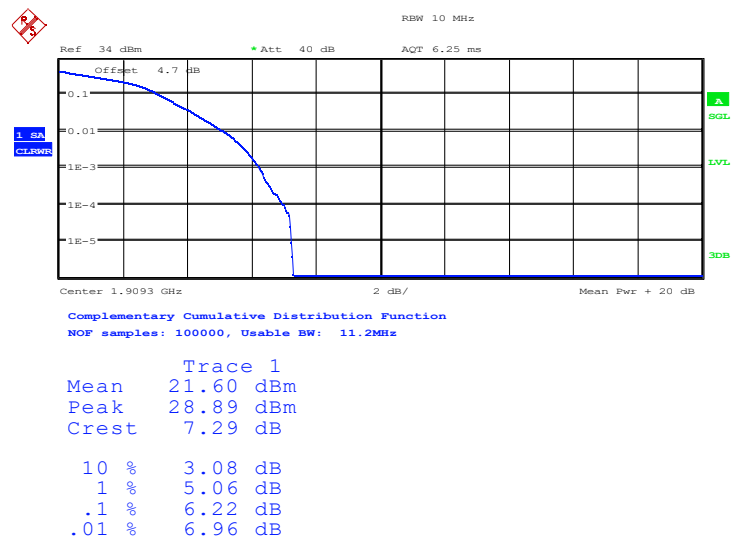


Date: 9.MAY.2024 16:31:08

LTE band 2 , 1.4MHz Bandwidth,16QAM

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Date: 9.MAY.2024 16:31:24

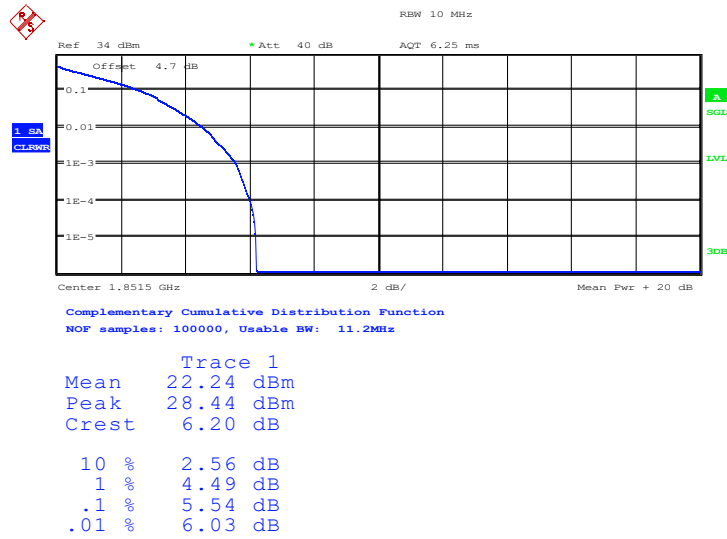
LTE Band 2, 3MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1851.5	100%,0	5.54	6.28
1880	100%,0	5.64	6.47
1908.5	100%,0	5.42	6.19

LTE band 2 , 3MHz Bandwidth,QPSK

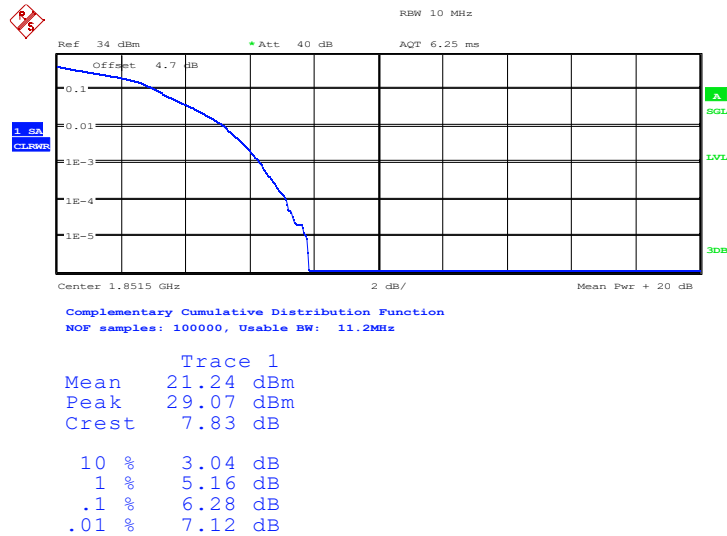
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Date: 9.MAY.2024 16:31:54

LTE band 2 , 3MHz Bandwidth,16QAM

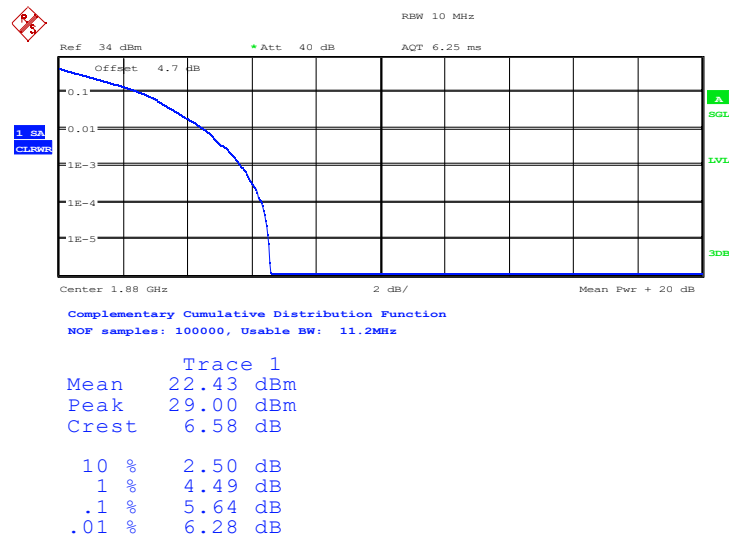


Date: 9.MAY.2024 16:32:07

LTE band 2 , 3MHz Bandwidth,QPSK

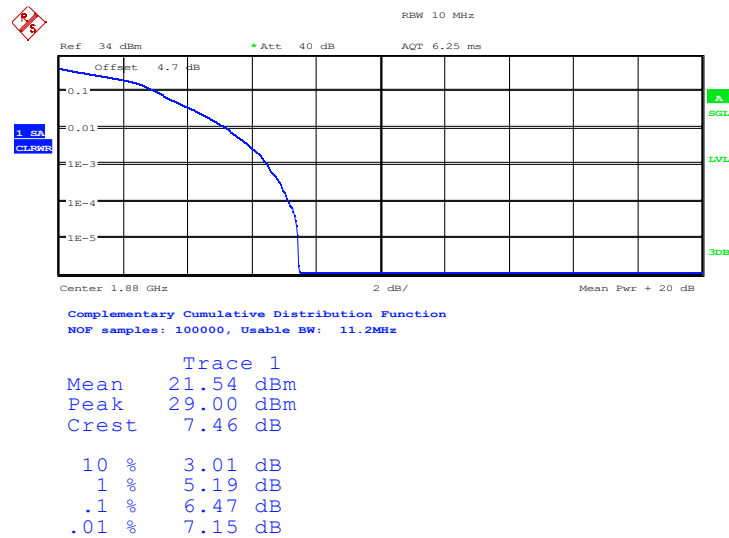
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Date: 9.MAY.2024 16:32:28

LTE band 2 , 3MHz Bandwidth,16QAM

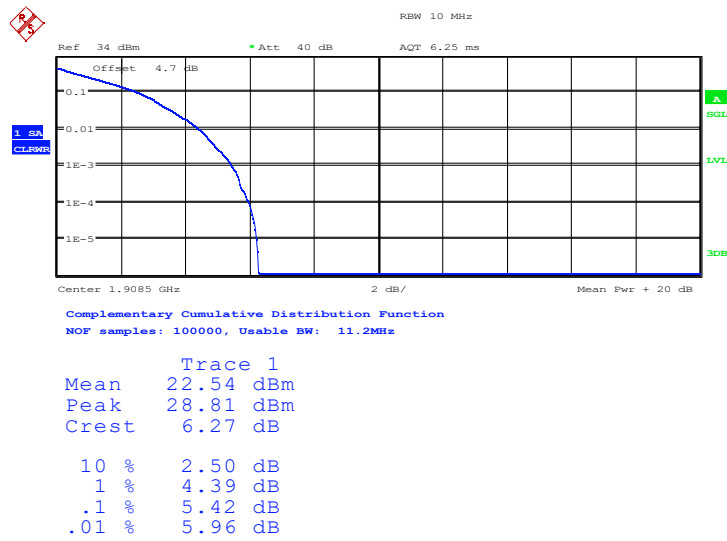


Date: 9.MAY.2024 16:32:46

LTE band 2 , 3MHz Bandwidth,QPSK

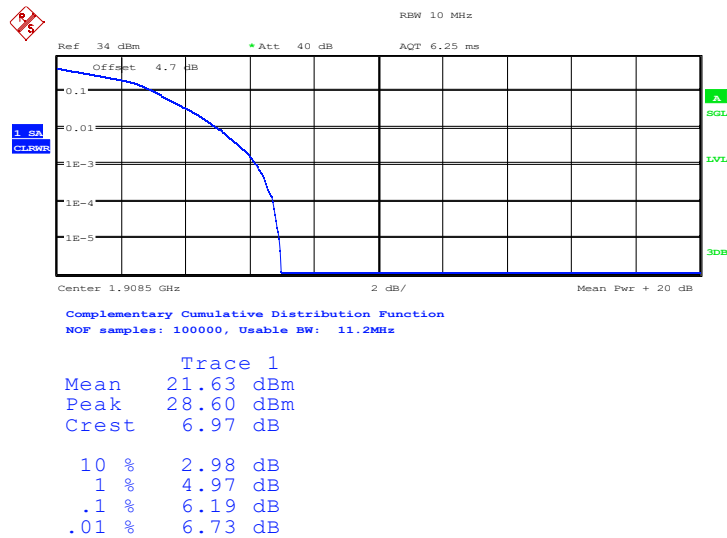
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Date: 9.MAY.2024 16:33:03

LTE band 2 , 3MHz Bandwidth,16QAM



Date: 9.MAY.2024 16:33:20

LTE Band 2, 5MHz

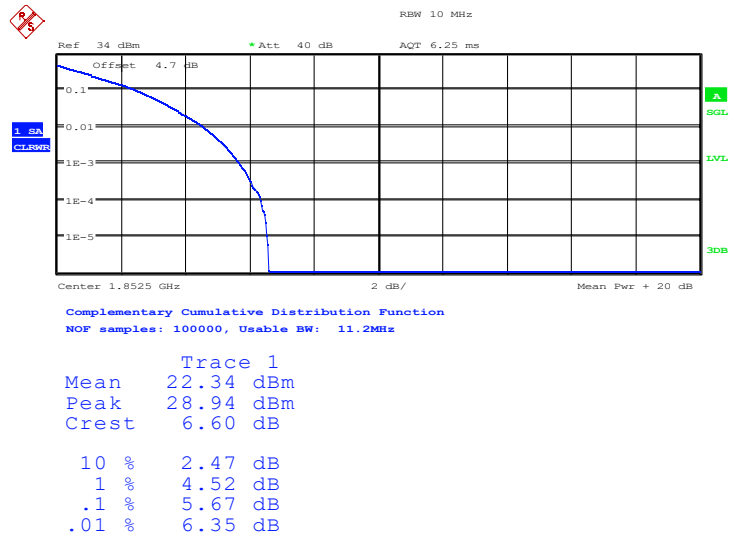
Frequency (MHz)	RB	PAPR (dB)
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		QPSK	16QAM
1852.5	100%,0	5.67	6.35
1880	100%,0	5.80	6.41
1907.5	100%,0	5.32	6.09

LTE band 2 , 5MHz Bandwidth,QPSK

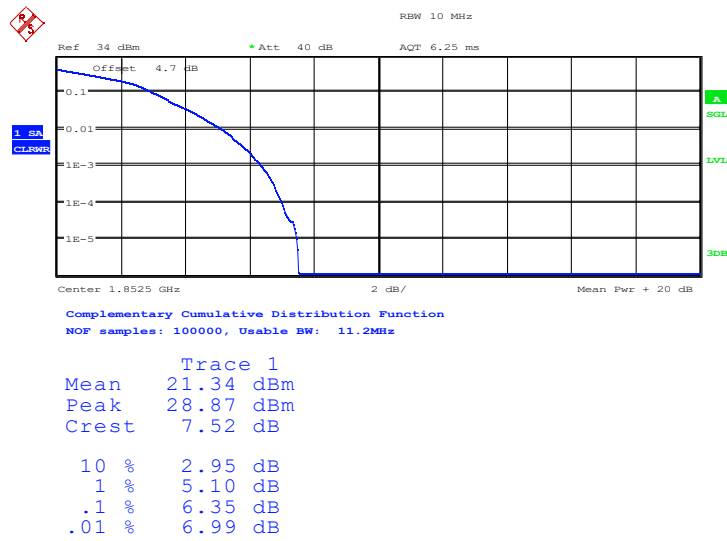


Date: 9.MAY.2024 16:33:50

LTE band 2 , 5MHz Bandwidth,16QAM

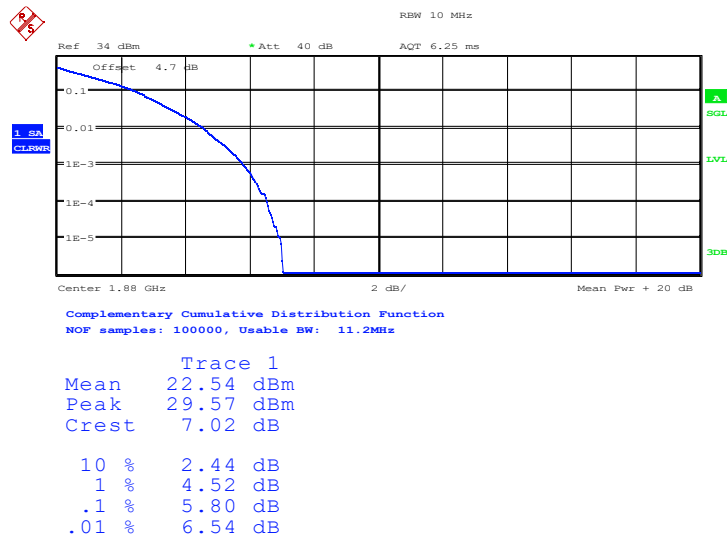
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Date: 9.MAY.2024 16:34:03

LTE band 2 , 5MHz Bandwidth,QPSK

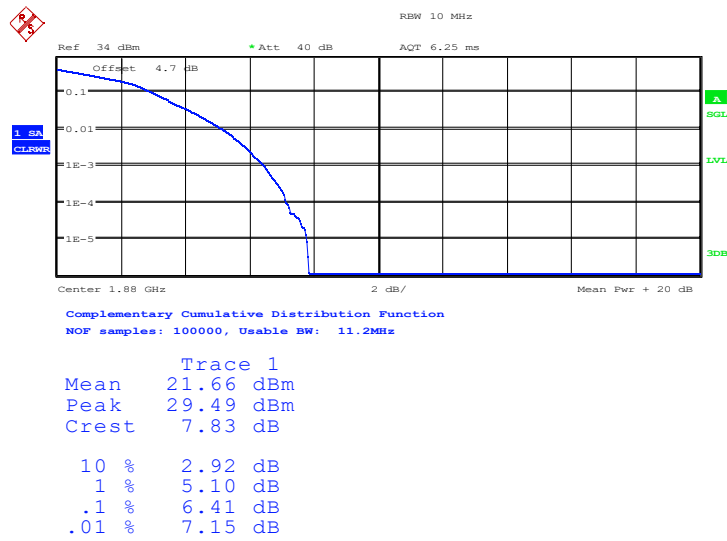


Date: 9.MAY.2024 17:21:10

LTE band 2 , 5MHz Bandwidth,16QAM

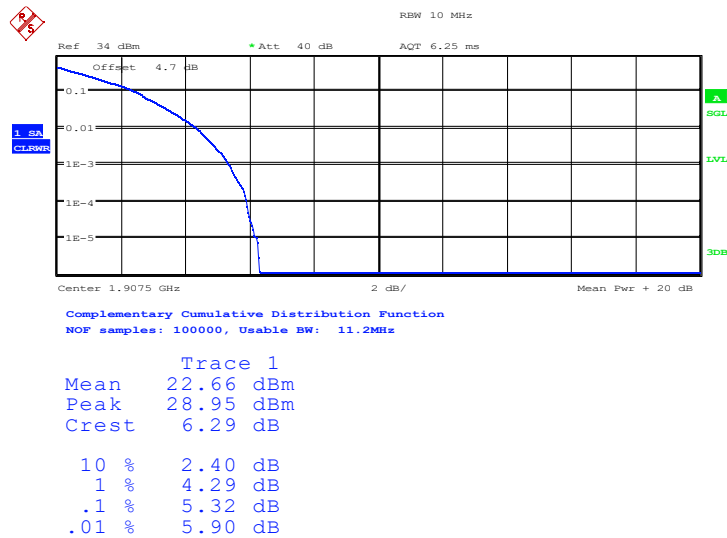
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Date: 9.MAY.2024 16:34:50

LTE band 2 , 5MHz Bandwidth,QPSK

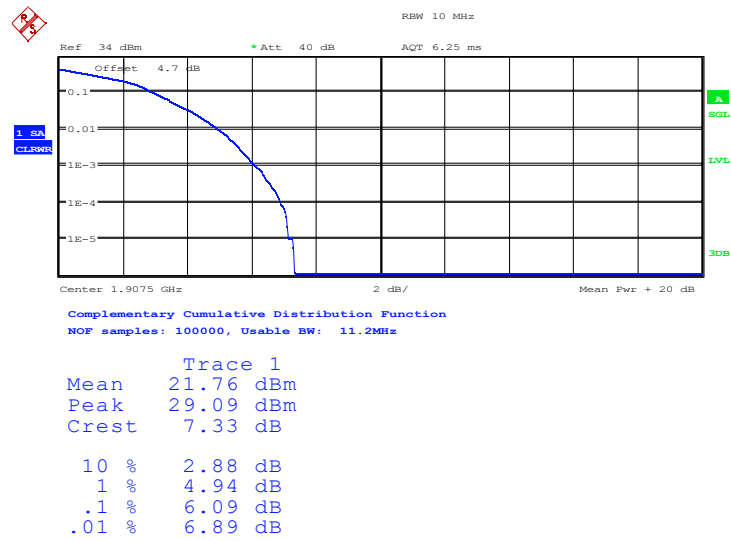


Date: 9.MAY.2024 16:35:13

LTE band 2 , 5MHz Bandwidth,16QAM

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Date: 9.MAY.2024 16:35:28

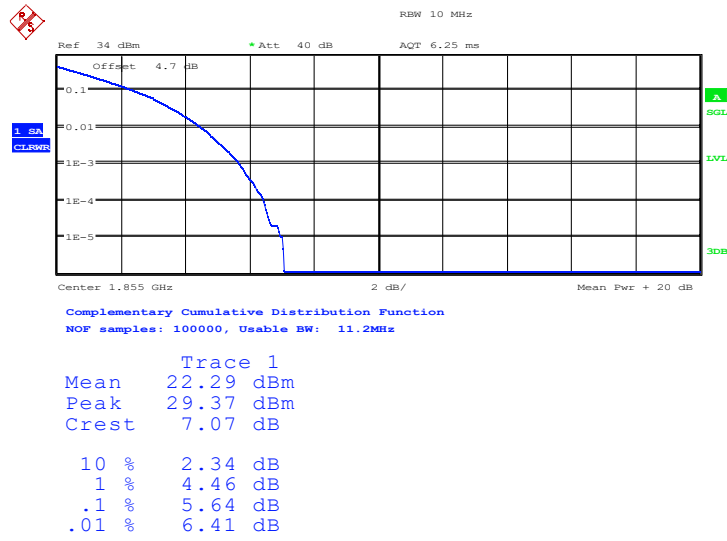
LTE Band 2, 10MHz

Frequency (MHz)	RB	PAPR (dB)
		QPSK
1855	100%,0	5.64
1880	100%,0	5.48
1905	100%,0	5.42

LTE band 2 , 10MHz Bandwidth,QPSK

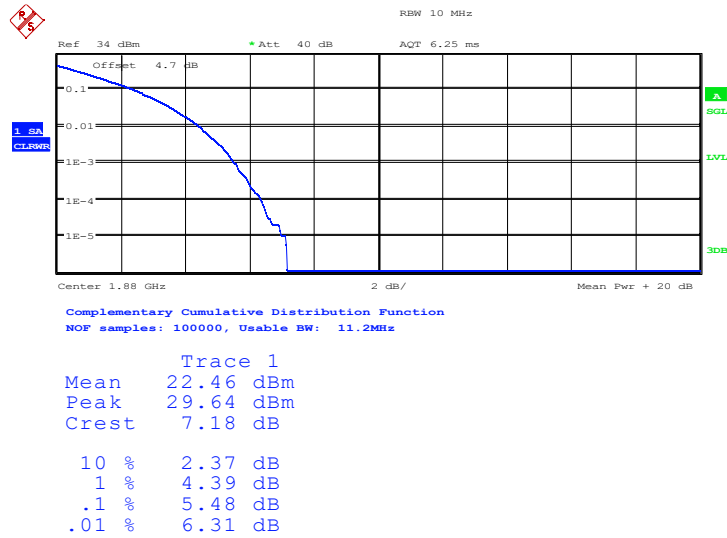
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Date: 9.MAY.2024 16:35:53

LTE band 2 , 10MHz Bandwidth,QPSK

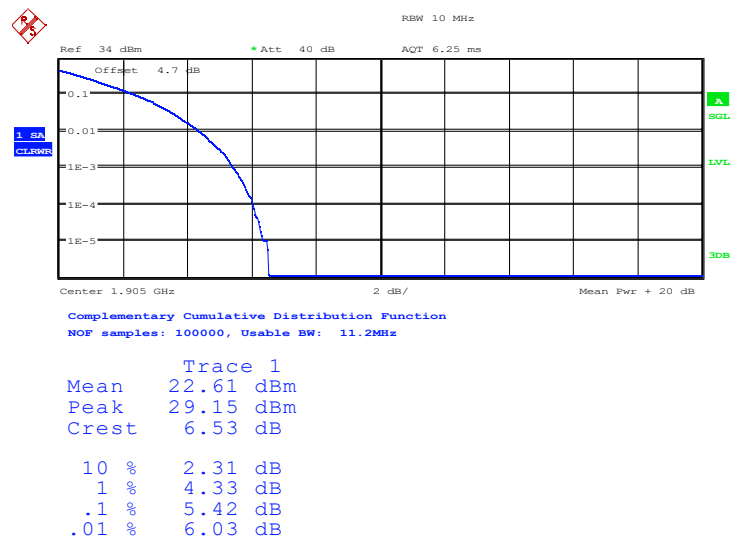


Date: 9.MAY.2024 16:36:14

LTE band 2 , 10MHz Bandwidth,QPSK

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Date: 9.MAY.2024 16:36:32

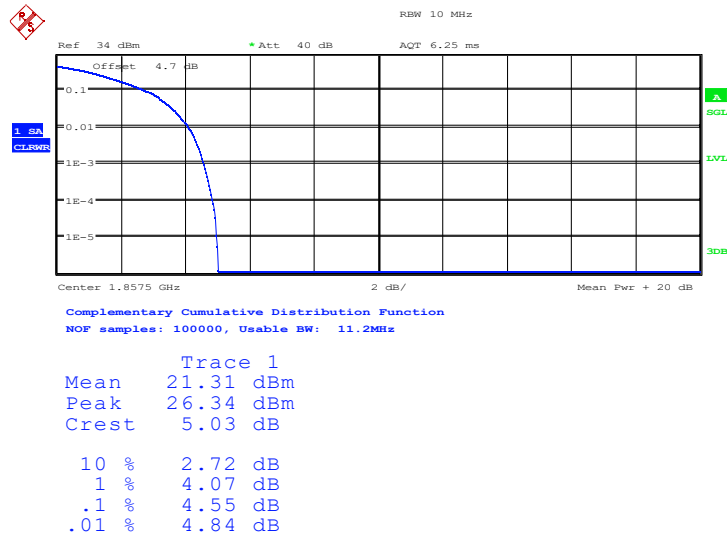
LTE Band 2, 15MHz

Frequency (MHz)	RB	PAPR (dB)
		QPSK
1857.5	100%,0	4.55
1880	100%,0	4.52
1902.5	100%,0	4.42

LTE band 2 , 15MHz Bandwidth,QPSK

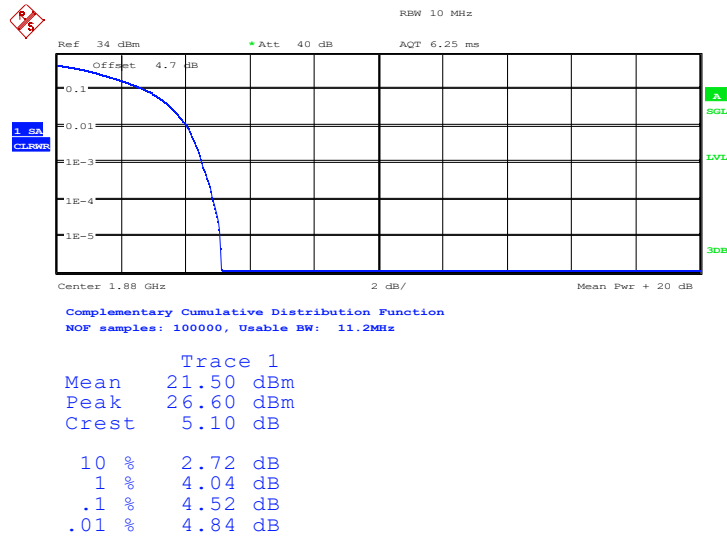
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Date: 9.MAY.2024 16:36:57

LTE band 2 , 15MHz Bandwidth,QPSK

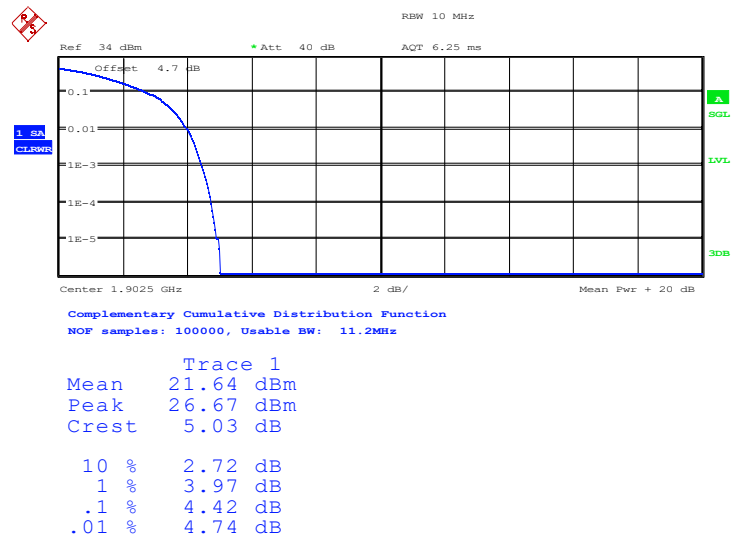


Date: 9.MAY.2024 16:37:16

LTE band 2 , 15MHz Bandwidth,QPSK

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Date: 9.MAY.2024 16:37:33

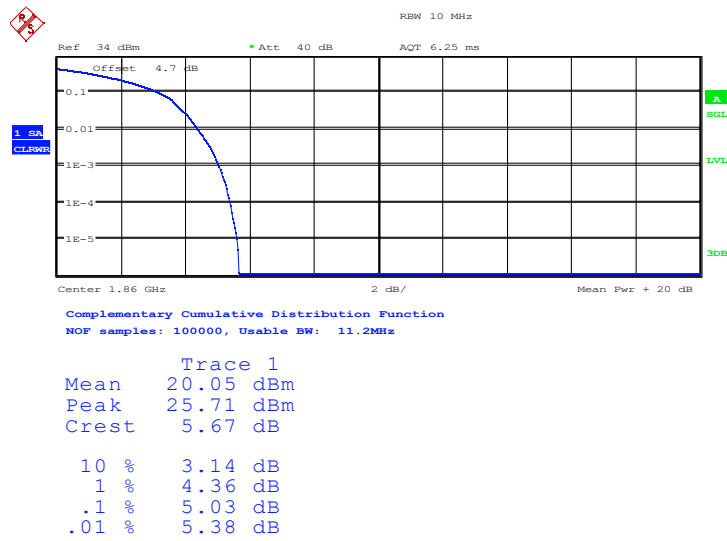
LTE Band 2, 20MHz

Frequency (MHz)	RB	PAPR (dB)
		QPSK
1860	100%,0	5.03
1880	100%,0	5.06
1900	100%,0	5.06

LTE band 2 , 20MHz Bandwidth,QPSK

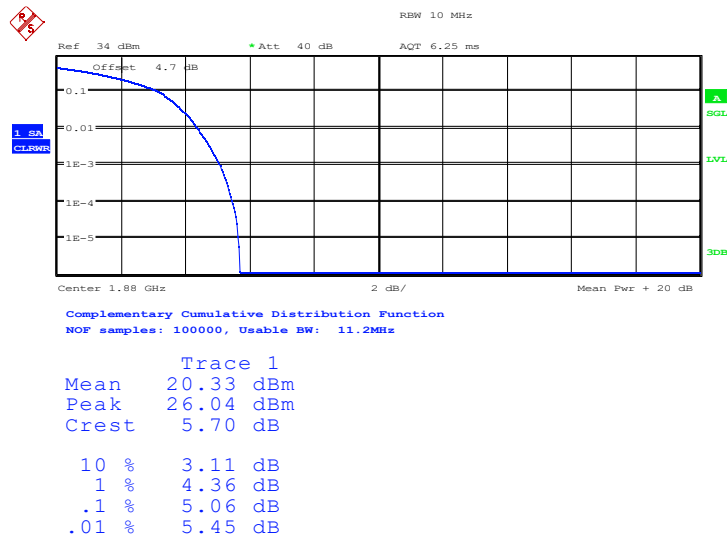
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Date: 9.MAY.2024 16:37:58

LTE band 2 , 20MHz Bandwidth,QPSK

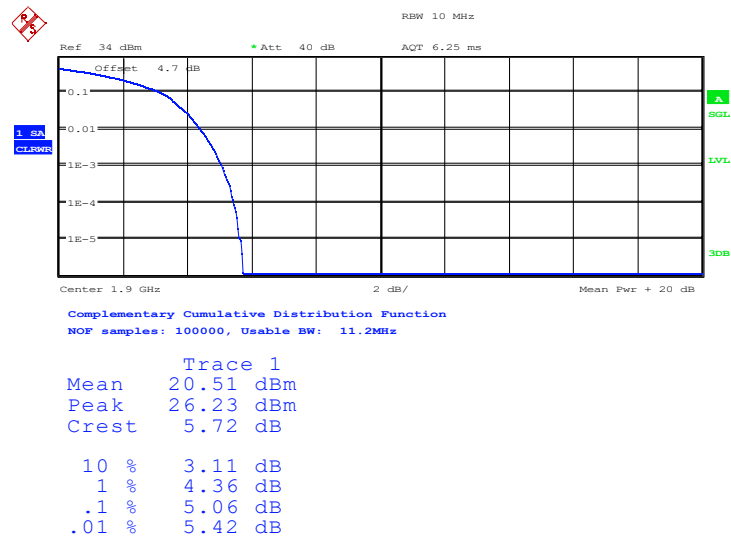


Date: 9.MAY.2024 16:38:16

LTE band 2 , 20MHz Bandwidth,QPSK

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Date: 9.MAY.2024 16:38:37

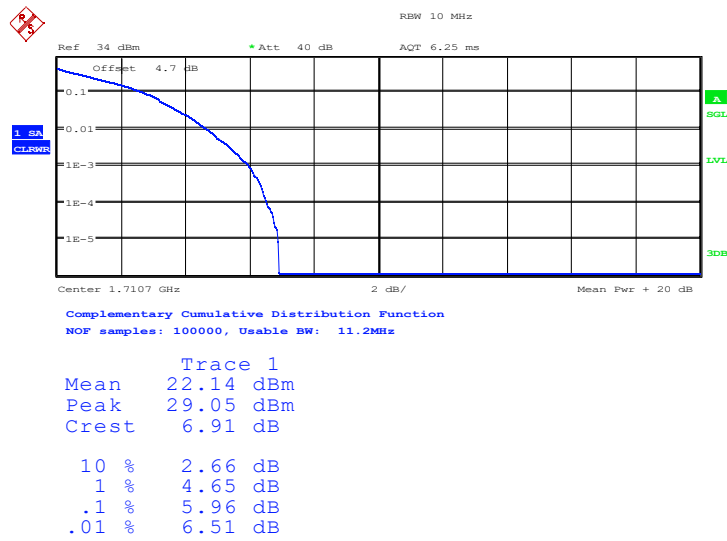
LTE Band 4, BW1_4MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1710.7	100%,0	5.96	6.47
1732.5	100%,0	5.71	6.60
1754.3	100%,0	5.74	6.57

LTE band 4 , 1.4MHz Bandwidth,QPSK

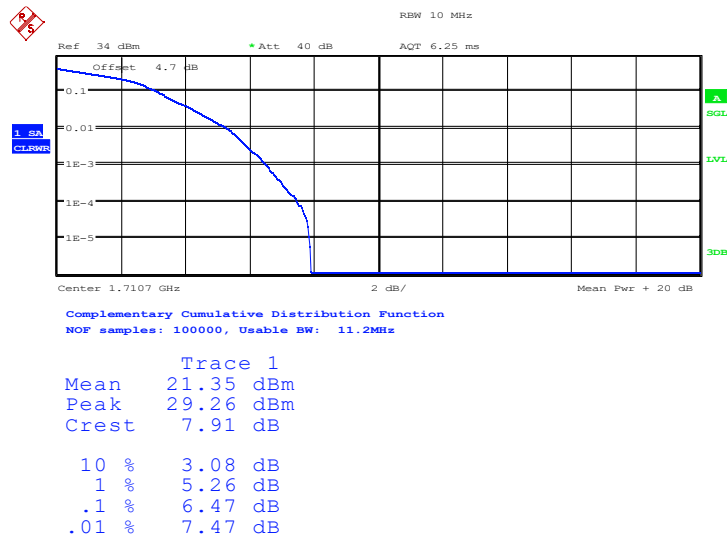
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Date: 9.MAY.2024 16:39:07

LTE band 4 , 1.4MHz Bandwidth,16QAM

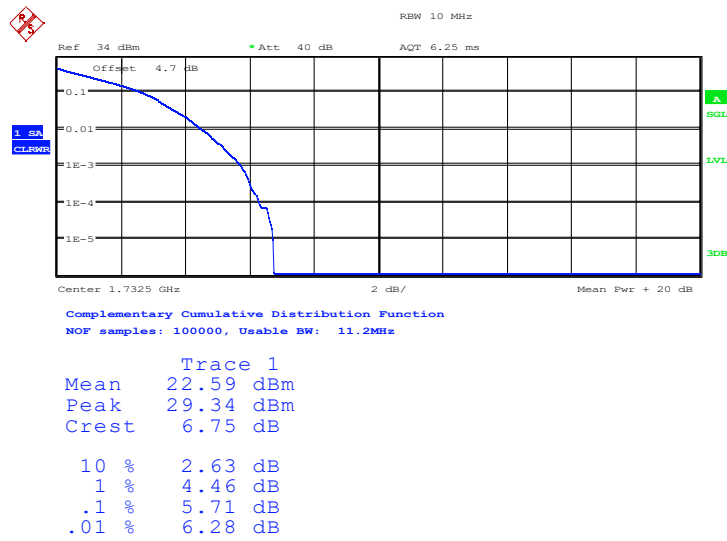


Date: 9.MAY.2024 16:39:33

LTE band 4 , 1.4MHz Bandwidth,QPSK

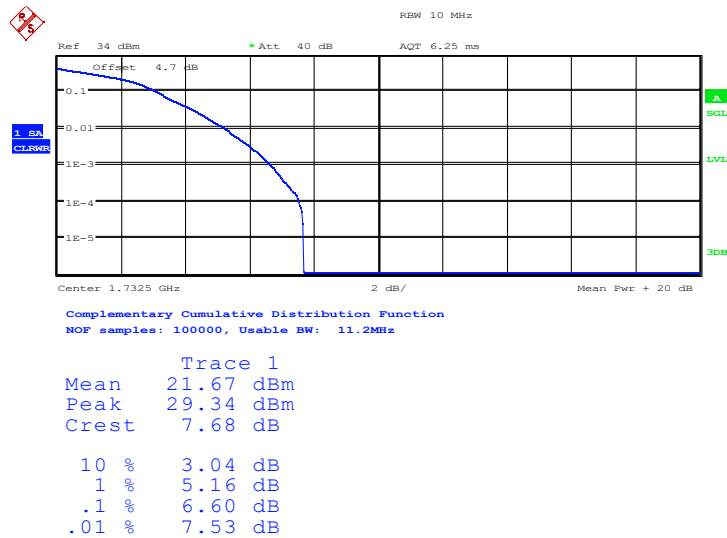
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Date: 9.MAY.2024 16:39:50

LTE band 4 , 1.4MHz Bandwidth,16QAM

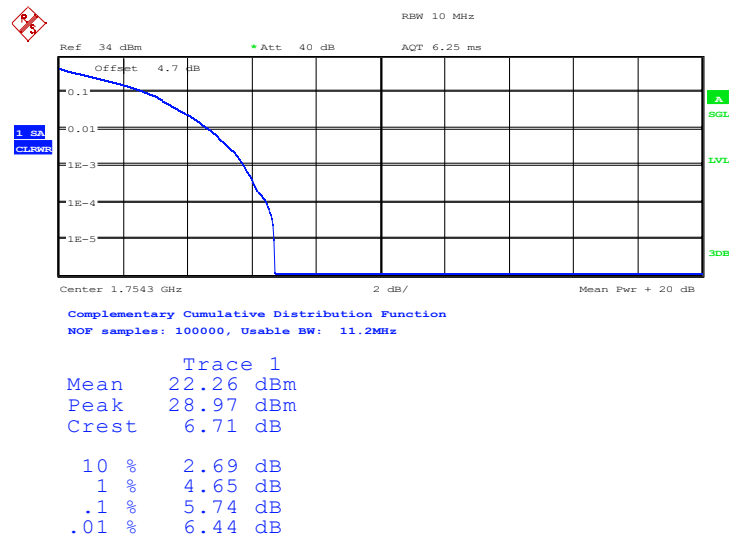


Date: 9.MAY.2024 16:40:03

LTE band 4 , 1.4MHz Bandwidth,QPSK

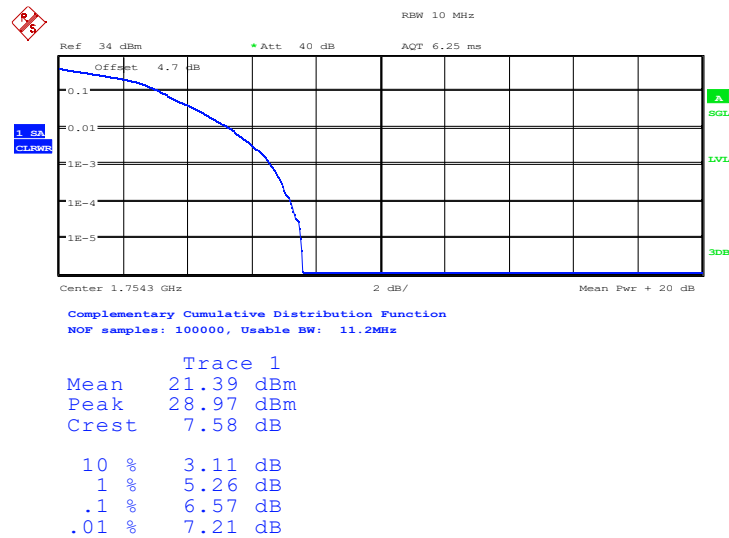
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Date: 9.MAY.2024 16:40:23

LTE band 4 , 1.4MHz Bandwidth,16QAM



Date: 9.MAY.2024 16:40:46

LTE Band 4, 3MHz

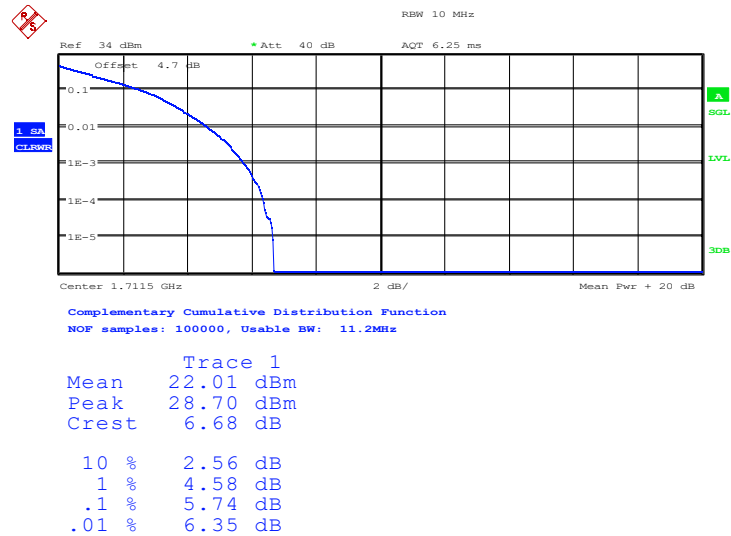
Frequency (MHz)	RB	PAPR (dB)
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		QPSK	16QAM
1711.5	100%,0	5.74	6.54
1732.5	100%,0	5.64	6.41
1753.5	100%,0	5.77	6.57

LTE band 4 , 3MHz Bandwidth,QPSK

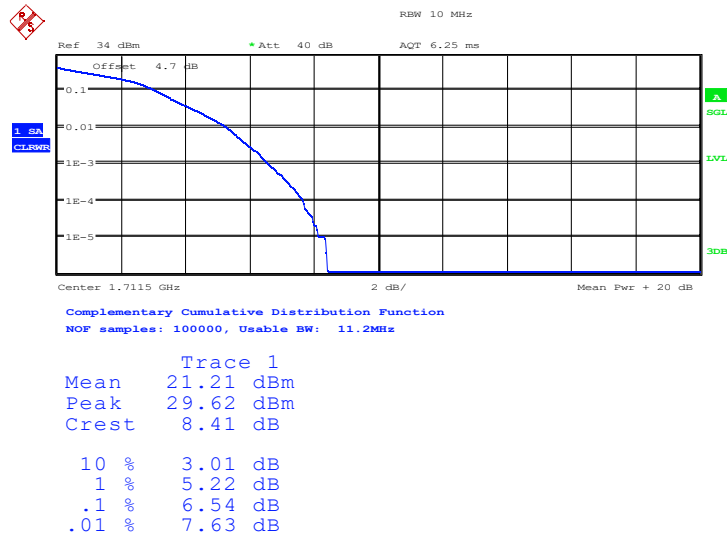


Date: 9.MAY.2024 16:41:15

LTE band 4 , 3MHz Bandwidth,16QAM

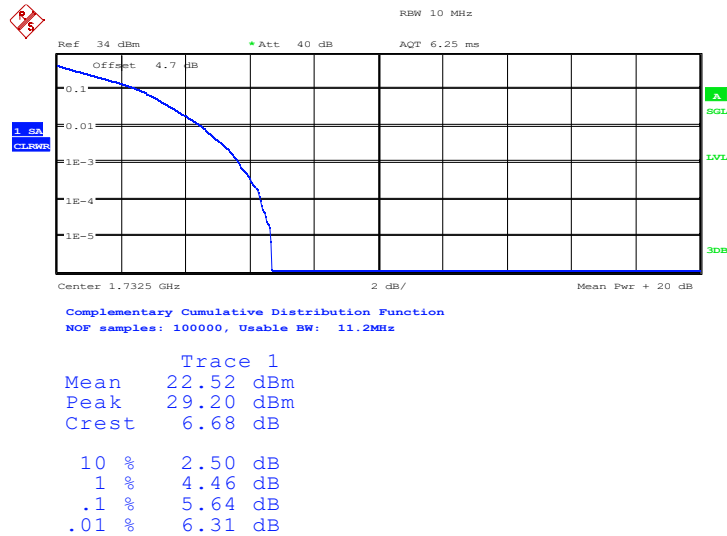
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Date: 9.MAY.2024 16:41:28

LTE band 4 , 3MHz Bandwidth,QPSK

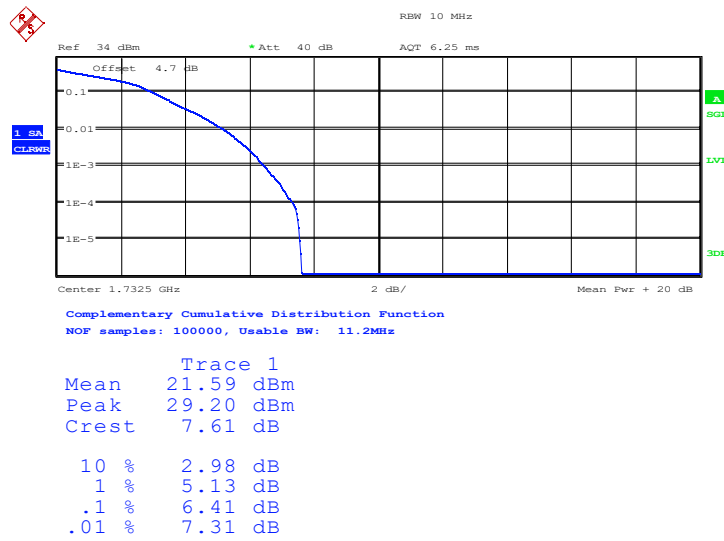


Date: 9.MAY.2024 16:41:45

LTE band 4 , 3MHz Bandwidth,16QAM

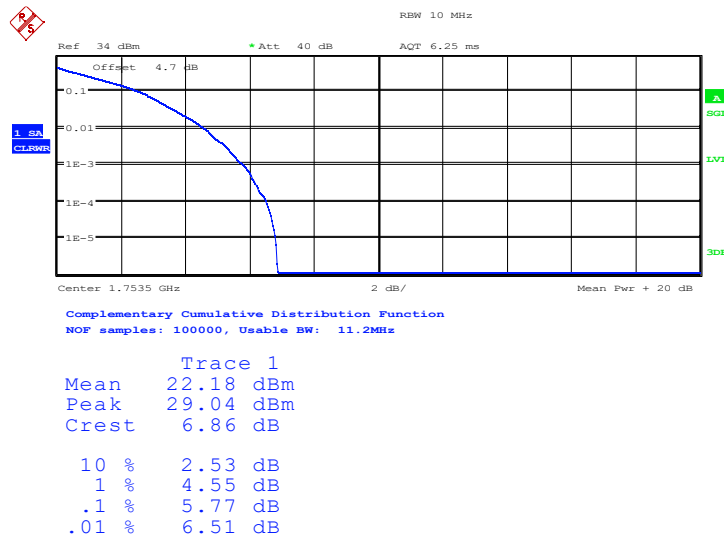
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Date: 9.MAY.2024 16:41:58

LTE band 4 , 3MHz Bandwidth,QPSK

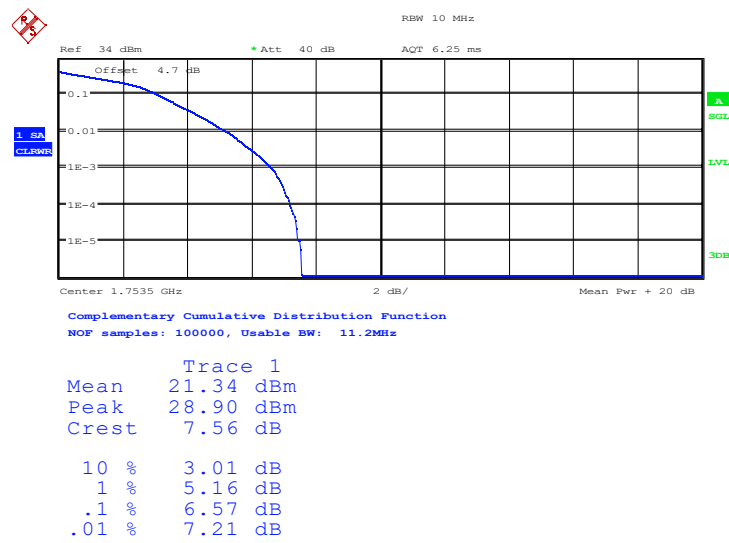


Date: 9.MAY.2024 16:42:15

LTE band 4 , 3MHz Bandwidth,16QAM

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Date: 9.MAY.2024 16:42:31

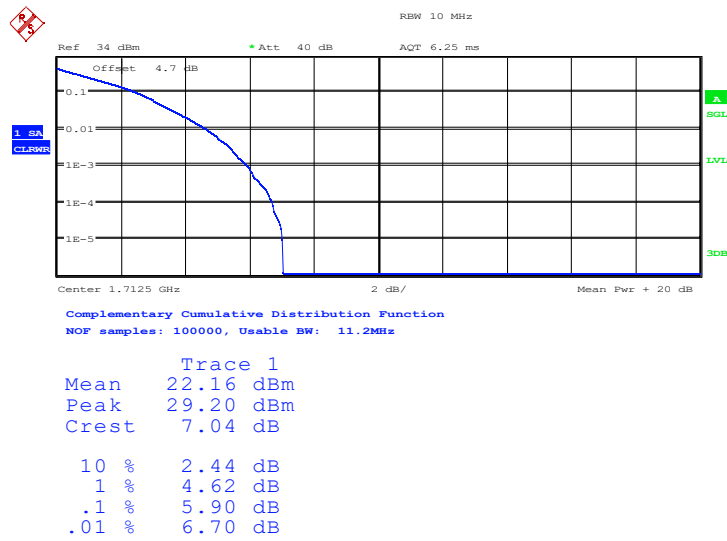
LTE Band 4, 5MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1712.5	100%,0	5.90	6.47
1732.5	100%,0	5.58	6.38
1752.5	100%,0	5.64	6.28

LTE band 4 , 5MHz Bandwidth,QPSK

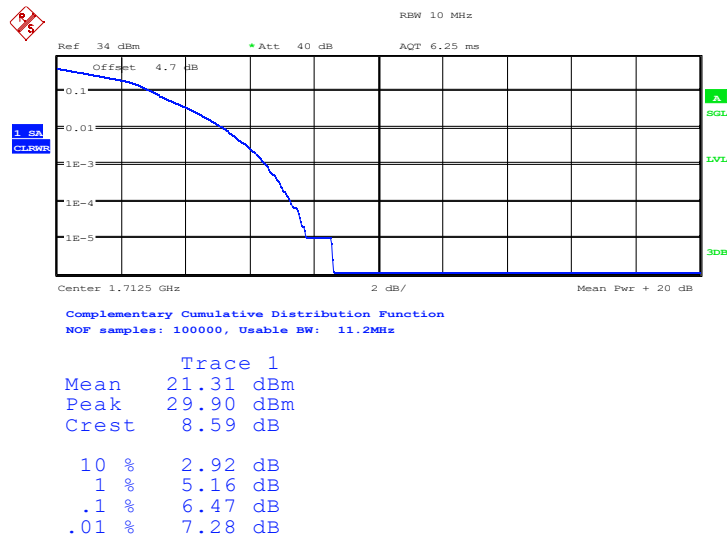
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Date: 9.MAY.2024 16:42:57

LTE band 4 , 5MHz Bandwidth,16QAM

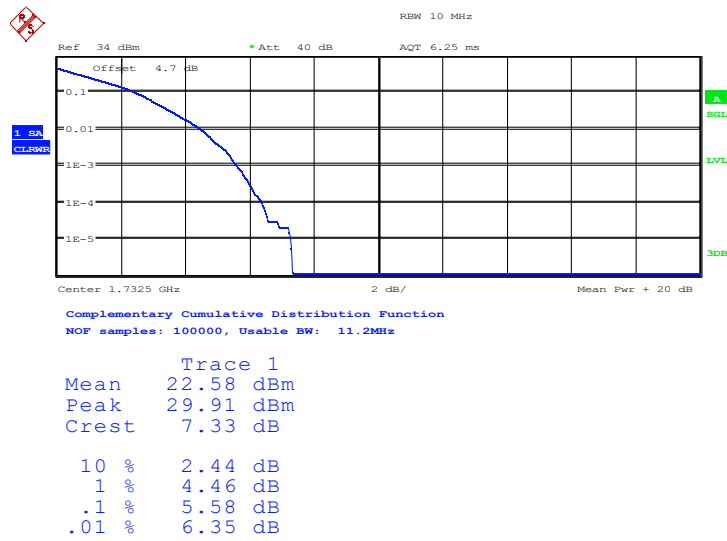


Date: 9.MAY.2024 16:43:10

LTE band 4 , 5MHz Bandwidth,QPSK

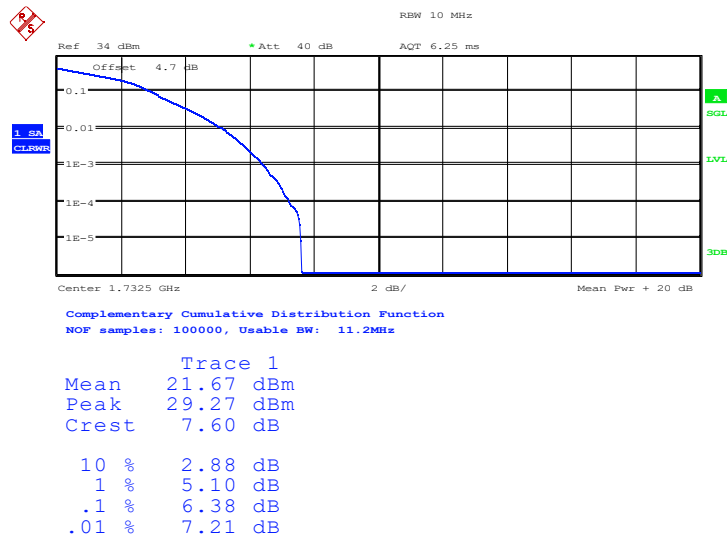
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Date: 9.MAY.2024 16:43:32

LTE band 4 , 5MHz Bandwidth,16QAM

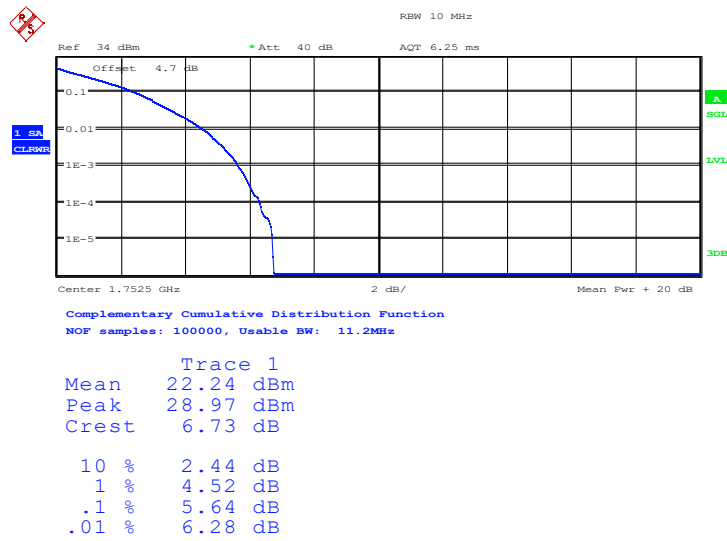


Date: 9.MAY.2024 16:43:48

LTE band 4 , 5MHz Bandwidth,QPSK

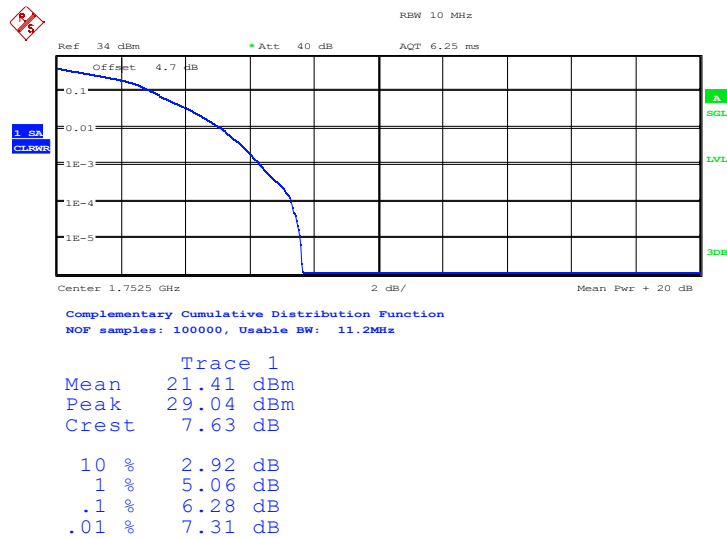
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Date: 9.MAY.2024 16:44:07

LTE band 4 , 5MHz Bandwidth,16QAM



Date: 9.MAY.2024 16:44:26

LTE Band 4, 10MHz

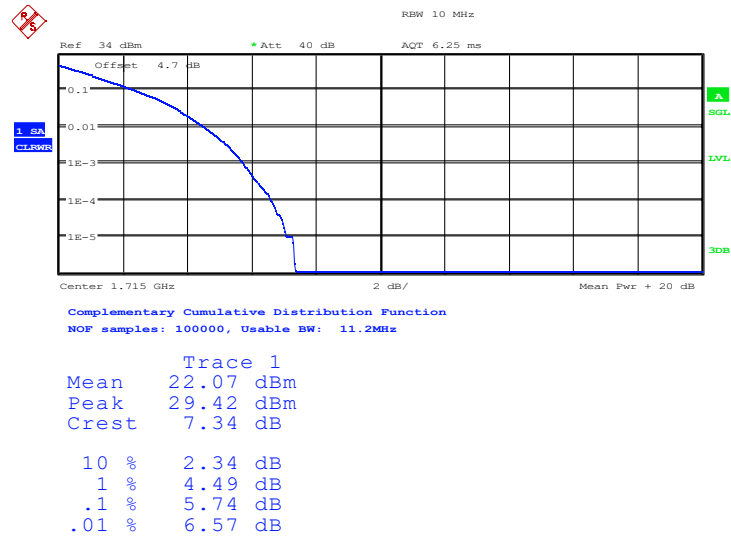
Frequency (MHz)	RB	PAPR (dB)
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		QPSK
1715	100%,0	5.74
1732.5	100%,0	5.51
1750	100%,0	5.58

LTE band 4 , 10MHz Bandwidth,QPSK

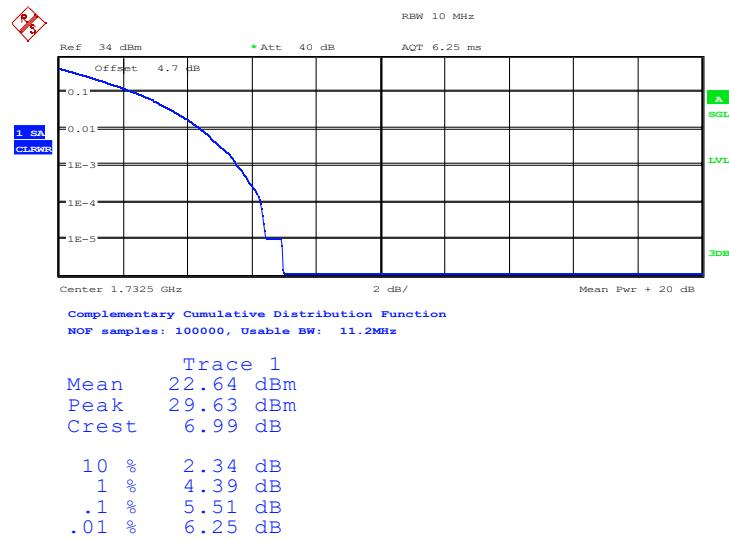


Date: 9.MAY.2024 16:44:58

LTE band 4 , 10MHz Bandwidth,QPSK

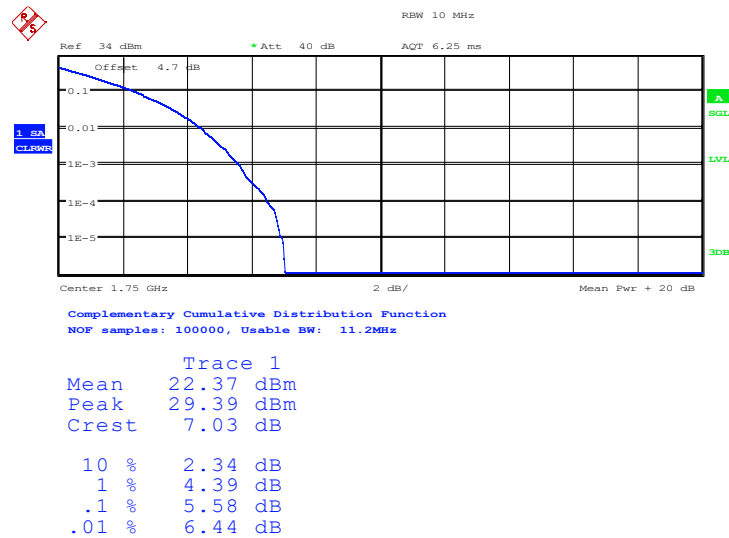
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Date: 9.MAY.2024 16:45:19

LTE band 4 , 10MHz Bandwidth,QPSK



Date: 9.MAY.2024 16:45:40

LTE Band 4, 15MHz

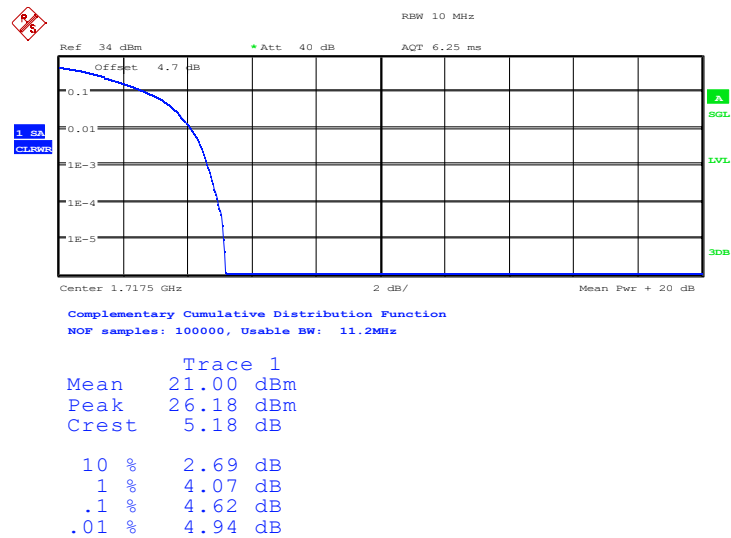
Frequency (MHz)	RB	PAPR (dB)
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		QPSK
1717.5	100%,0	4.62
1732.5	100%,0	4.55
1747.5	100%,0	4.49

LTE band 4 , 15MHz Bandwidth,QPSK

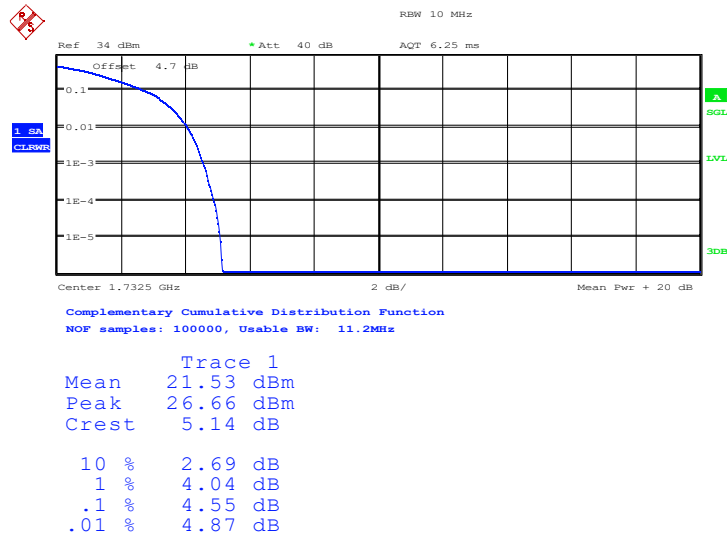


Date: 9.MAY.2024 16:46:06

LTE band 4 , 15MHz Bandwidth,QPSK

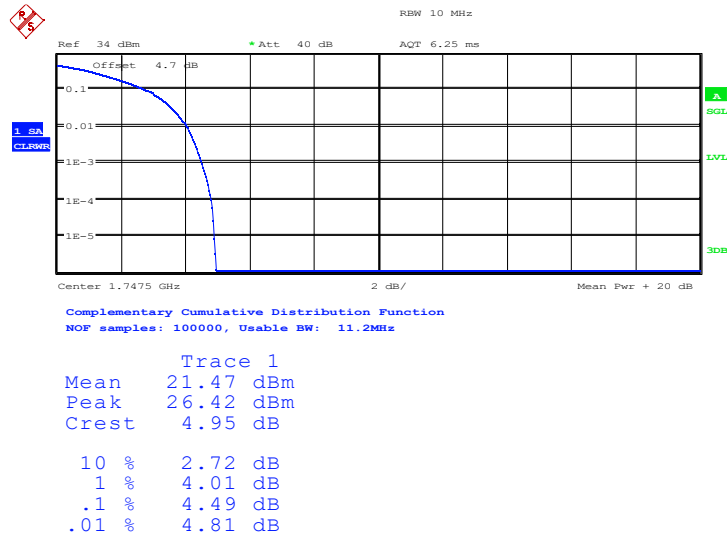
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Date: 9.MAY.2024 16:46:23

LTE band 4 , 15MHz Bandwidth,QPSK



Date: 9.MAY.2024 16:46:43

LTE Band 4, 20MHz

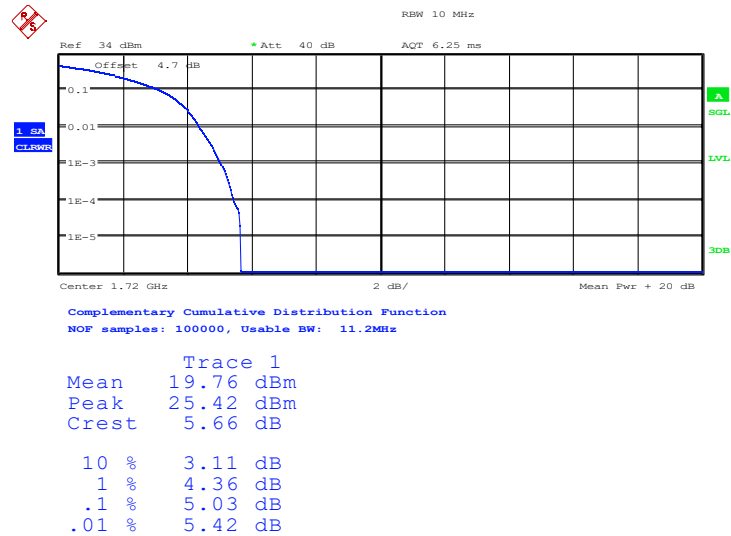
Frequency (MHz)	RB	PAPR (dB)
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		QPSK
1720	100%,0	5.03
1732.5	100%,0	5.06
1745	100%,0	5.10

LTE band 4 , 20MHz Bandwidth,QPSK

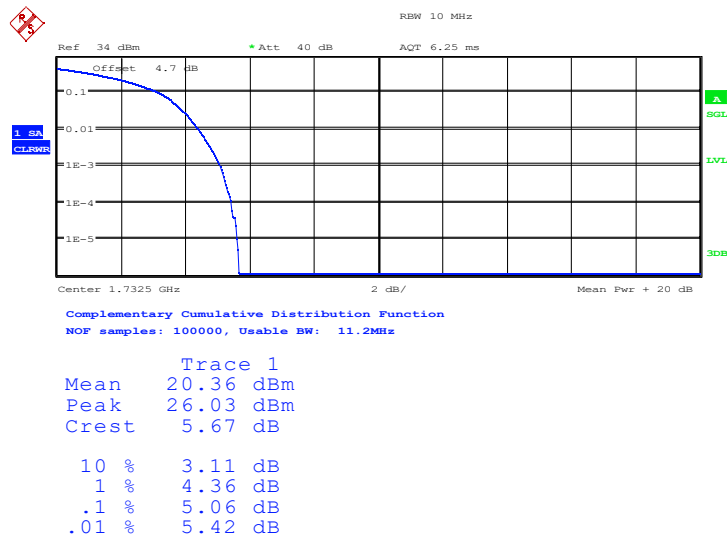


Date: 9.MAY.2024 16:47:09

LTE band 4 , 20MHz Bandwidth,QPSK

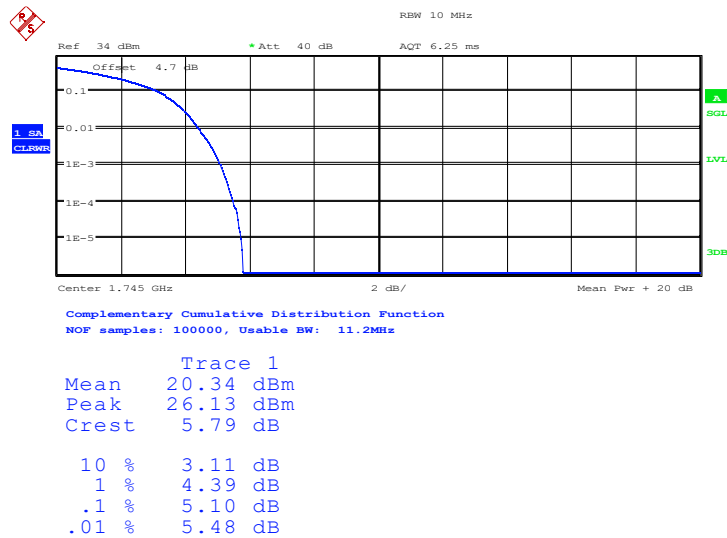
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Date: 9.MAY.2024 16:47:32

LTE band 4 , 20MHz Bandwidth,QPSK



Date: 9.MAY.2024 16:47:57

LTE Band 5, BW1_4MHz

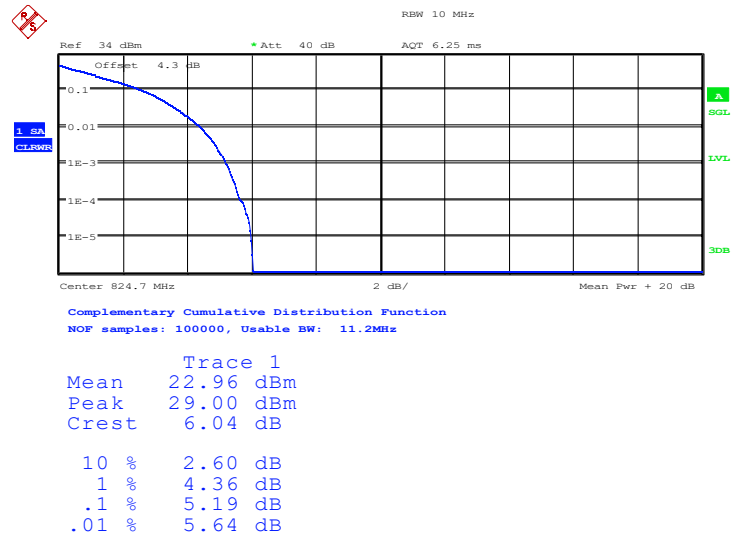
Frequency (MHz)	RB	PAPR (dB)
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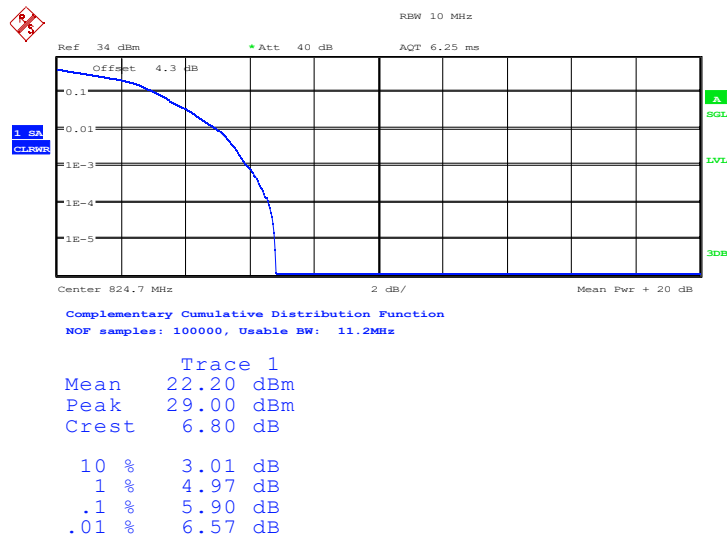
		QPSK	16QAM
824.7	100%,0	5.19	5.90
836.5	100%,0	5.38	6.25
848.3	100%,0	5.22	6.15

LTE band 5 , 1.4MHz Bandwidth,QPSK



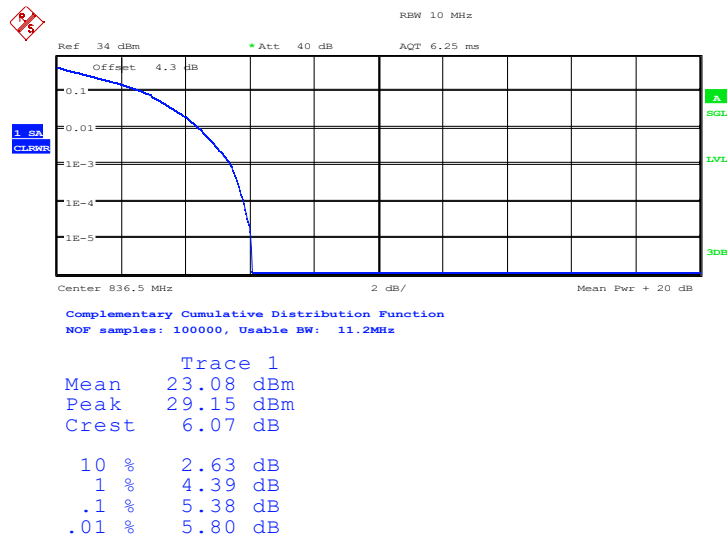
Date: 9.MAY.2024 16:48:26

LTE band 5 , 1.4MHz Bandwidth,16QAM



Date: 9.MAY.2024 16:48:49

LTE band 5 , 1.4MHz Bandwidth,QPSK

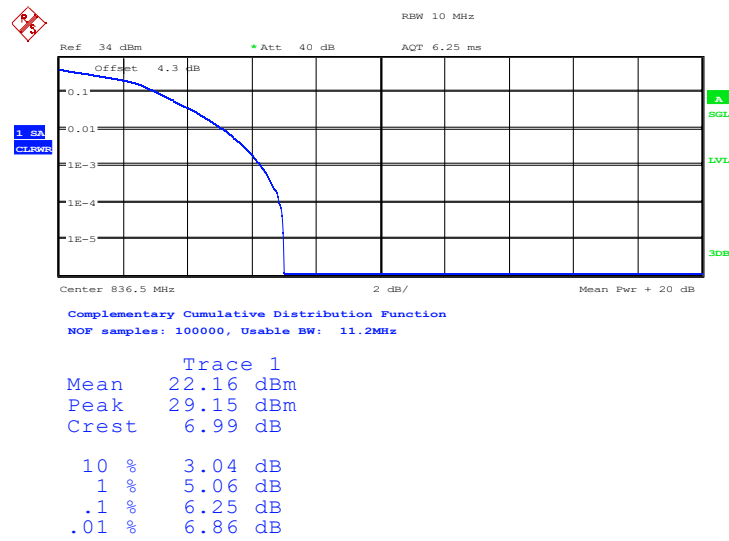


Date: 9.MAY.2024 16:49:14

LTE band 5 , 1.4MHz Bandwidth,16QAM

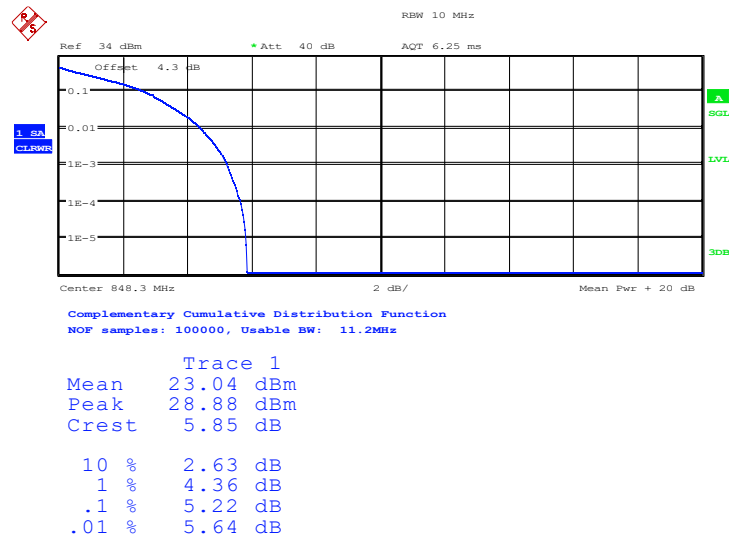
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Date: 9.MAY.2024 16:49:31

LTE band 5 , 1.4MHz Bandwidth,QPSK

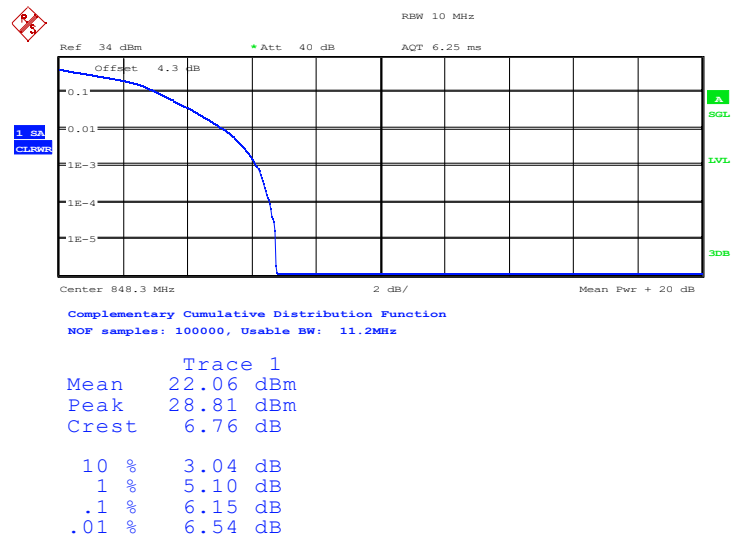


Date: 9.MAY.2024 16:49:56

LTE band 5 , 1.4MHz Bandwidth,16QAM

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Date: 9.MAY.2024 16:50:09

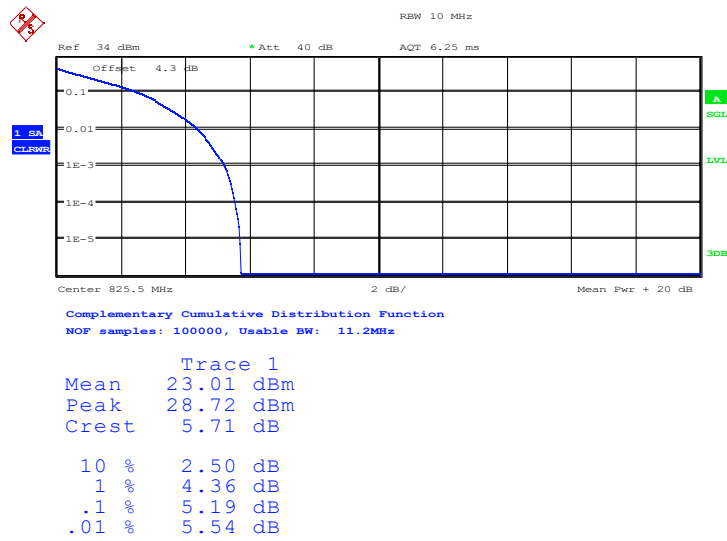
LTE Band 5, 3MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
825.5	100%,0	5.19	5.96
836.5	100%,0	5.32	6.19
847.5	100%,0	5.22	6.09

LTE band 5 , 3MHz Bandwidth,QPSK

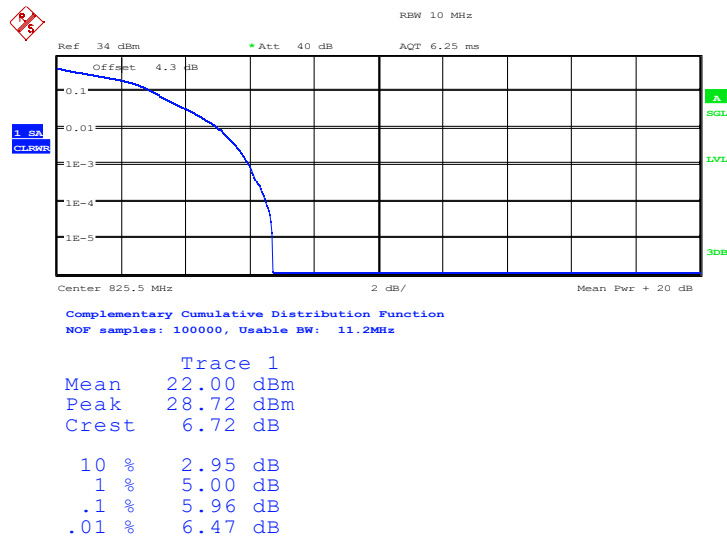
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Date: 9.MAY.2024 16:50:34

LTE band 5 , 3MHz Bandwidth,16QAM

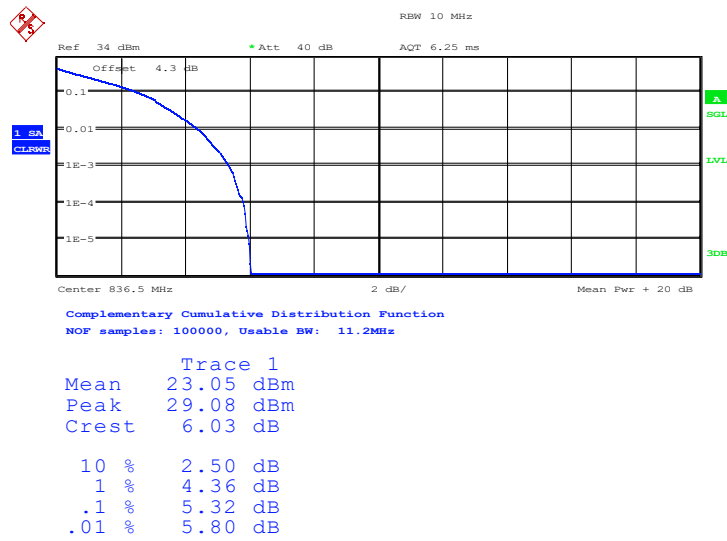


Date: 9.MAY.2024 16:50:50

LTE band 5 , 3MHz Bandwidth,QPSK

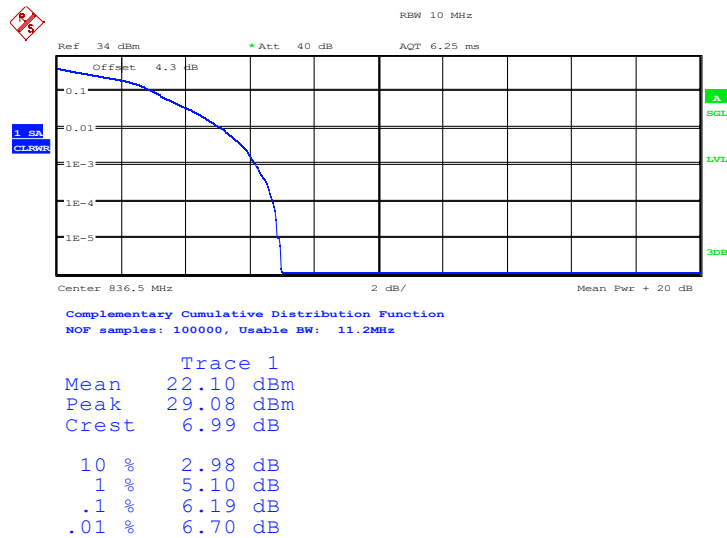
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Date: 9.MAY.2024 16:51:10

LTE band 5 , 3MHz Bandwidth,16QAM



Date: 9.MAY.2024 16:51:23

LTE band 5 , 3MHz Bandwidth,QPSK

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