

Report No.: I21W00031-WWAN Rev3

3760.0	-66.4	7.3	8.9	-64.8	V
5640.0	-72.5	1.8	10.5	-63.8	V
7520.0	-72.1	0.9	11.9	-61.1	V
9400.0	-70.5	0.8	11.8	-59.5	V
11280.0	-70.2	0.3	12.1	-58.4	V
13160.0	-70.0	0.4	12.4	-58.0	V

Test Data (20MHz bandwidth 19099 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3799.8	-66.8	7.4	9.2	-65.0	V
5699.7	-72.4	1.7	10.5	-63.6	V
7599.6	-72.0	0.8	11.9	-60.9	V
9499.5	-71.1	0.8	11.8	-60.1	V
11399.4	-70.5	0.8	12.2	-59.1	V
13299.3	-70.1	0.4	12.4	-58.1	V

Test Data (20MHz bandwidth 19099 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3799.8	-64.5	7.4	9.2	-62.7	V
5699.7	-72.4	1.7	10.5	-63.6	V
7599.6	-72.7	0.8	11.9	-61.6	V
9499.5	-70.4	0.8	11.8	-59.4	V
11399.4	-70.2	0.8	12.2	-58.8	V
13299.3	-70.1	0.4	12.4	-58.1	V

5.4.2 LTE B4 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 19957 QPSK Mode)

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Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3421.4	-68.5	6.9	8.9	-66.5	V
5132.1	-67.2	6.3	9.9	-63.6	V
6842.8	-73.5	0.8	11.9	-62.4	V
8553.5	-71.5	0.9	11.2	-61.2	V
10264.2	-72.6	0.5	12.0	-61.1	V
11974.9	-69.6	0.4	12.2	-57.8	V

Test Data (1.4MHz bandwidth 19957 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3421.4	-69.7	6.9	8.9	-67.7	V
5132.1	-67.7	6.3	9.9	-64.1	V
6842.8	-73.0	0.8	11.9	-61.9	V
8553.5	-70.8	0.9	11.2	-60.5	V
10264.2	-70.9	0.5	12.0	-59.4	V
11974.9	-69.7	0.4	12.2	-57.9	V

Test Data (1.4MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-63.0	6.9	8.9	-61.0	V
5197.5	-67.9	5.8	9.9	-63.8	V
6930.0	-64.7	0.9	11.9	-53.7	V
8662.5	-70.5	0.9	11.2	-60.2	V
10395.0	-72.3	0.7	12.2	-60.8	V
12127.5	-70.2	0.6	12.2	-58.6	V

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Test Data (1.4MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-63.8	6.9	8.9	-61.8	V
5197.5	-69.0	5.8	9.9	-64.9	V
6930.0	-65.1	0.9	11.9	-54.1	V
8662.5	-70.4	0.9	11.2	-60.1	V
10395.0	-71.9	0.7	12.2	-60.4	V
12127.5	-70.0	0.6	12.2	-58.4	V

Test Data (1.4MHz bandwidth 20392 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3508.4	-68.1	7.0	8.9	-66.2	V
5262.5	-69.4	4.7	9.9	-64.2	V
7016.8	-72.4	1.2	11.9	-61.7	V
8771.0	-70.0	1.1	11.2	-59.9	V
10525.2	-71.1	0.6	12.2	-59.5	V
12279.4	-70.3	0.3	12.2	-58.4	V

Test Data (1.4MHz bandwidth 20392 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3508.4	-68.5	7.0	8.9	-66.6	V
5262.5	-69.1	4.7	9.9	-63.9	V
7016.8	-71.9	1.2	11.9	-61.2	V
8771.0	-69.9	1.1	11.2	-59.8	V
10525.2	-70.8	0.6	12.2	-59.2	V

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12279.4	-70.1	0.3	12.2	-58.2	V
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Test Data (3MHz bandwidth 19965 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3423.0	-69.0	6.9	8.9	-67.0	V
5134.5	-67.7	6.3	9.9	-64.1	V
6846.0	-73.3	0.8	11.9	-62.2	V
8557.5	-70.7	0.9	11.2	-60.4	V
10269.0	-71.9	0.5	12.0	-60.4	V
11980.5	-69.5	0.4	12.2	-57.7	V

Test Data (3MHz bandwidth 19965 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3423.0	-68.3	6.9	8.9	-66.3	V
5134.5	-68.2	6.3	9.9	-64.6	V
6846.0	-73.1	0.8	11.9	-62.0	V
8557.5	-70.0	0.9	11.2	-59.7	V
10269.0	-71.6	0.5	12.0	-60.1	V
11980.5	-69.8	0.4	12.2	-58.0	V

Test Data (3MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-65.7	6.9	8.9	-63.7	V
5197.5	-67.6	5.8	9.9	-63.5	V
6930.0	-65.5	0.9	11.9	-54.5	V
8662.5	-69.5	0.9	11.2	-59.2	V

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10395.0	-71.2	0.7	12.2	-59.7	V
12127.5	-70.4	0.6	12.2	-58.8	V

Test Data (3MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-65.7	6.9	8.9	-63.7	V
5197.5	-67.7	5.8	9.9	-63.6	V
6930.0	-67.3	0.9	11.9	-56.3	V
8662.5	-70.5	0.9	11.2	-60.2	V
10395.0	-71.7	0.7	12.2	-60.2	V
12127.5	-69.4	0.6	12.2	-57.8	V

Test Data (3MHz bandwidth 20384 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3506.8	-68.9	7.0	8.9	-67.0	V
5260.2	-68.9	5.0	9.9	-64.0	V
7013.6	-72.4	1.2	11.9	-61.7	V
8767.0	-70.1	1.2	11.2	-60.1	V
10520.4	-71.1	0.6	12.2	-59.5	V
12273.8	-71.3	0.3	12.2	-59.4	V

Test Data (3MHz bandwidth 20384 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3506.8	-68.1	7.0	8.9	-66.2	V
5260.2	-68.7	5.0	9.9	-63.8	V
7013.6	-72.4	1.2	11.9	-61.7	V

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8767.0	-70.7	1.2	11.2	-60.7	V
10520.4	-70.9	0.6	12.2	-59.3	V
12273.8	-70.3	0.3	12.2	-58.4	V

Test Data (5MHz bandwidth 19975 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3425.0	-68.8	6.9	8.9	-66.8	V
5137.5	-67.0	6.3	9.9	-63.4	V
6850.0	-73.1	0.8	11.9	-62.0	V
8562.5	-70.6	0.9	11.2	-60.3	V
10275.0	-71.7	0.5	12.0	-60.2	V
11987.5	-70.2	0.4	12.2	-58.4	V

Test Data (5MHz bandwidth 19975 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3425.0	-69.2	6.9	8.9	-67.2	V
5137.5	-67.2	6.3	9.9	-63.6	V
6850.0	-73.2	0.8	11.9	-62.1	V
8562.5	-70.9	0.9	11.2	-60.6	V
10275.0	-71.4	0.5	12.0	-59.9	V
11987.5	-70.1	0.4	12.2	-58.3	V

Test Data (5MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-66.5	6.9	8.9	-64.5	V
5197.5	-67.7	5.8	9.9	-63.6	V

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6930.0	-67.6	0.9	11.9	-56.6	V
8662.5	-69.5	0.9	11.2	-59.2	V
10395.0	-71.5	0.7	12.2	-60.0	V
12127.5	-69.8	0.6	12.2	-58.2	V

Test Data (5MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-66.1	6.9	8.9	-64.1	V
5197.5	-68.3	5.8	9.9	-64.2	V
6930.0	-70.2	0.9	11.9	-59.2	V
8662.5	-70.5	0.9	11.2	-60.2	V
10395.0	-71.7	0.7	12.2	-60.2	V
12127.5	-69.7	0.6	12.2	-58.1	V

Test Data (5MHz bandwidth 20374 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3504.8	-68.6	7.0	8.9	-66.7	V
5257.2	-69.2	5.0	9.9	-64.3	V
7009.6	-72.6	1.2	11.9	-61.9	V
8762.0	-70.5	1.2	11.2	-60.5	V
10514.4	-71.7	0.6	12.2	-60.1	V
12266.8	-70.5	0.4	12.2	-58.7	V

Test Data (5MHz bandwidth 20374 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3504.8	-68.1	7.0	8.9	-66.2	V

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5257.2	-69.5	5.0	9.9	-64.6	V
7009.6	-72.4	1.2	11.9	-61.7	V
8762.0	-70.5	1.2	11.2	-60.5	V
10514.4	-72.0	0.6	12.2	-60.4	V
12266.8	-70.4	0.4	12.2	-58.6	V

Test Data (10MHz bandwidth 20000 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3430.0	-68.5	6.9	8.9	-66.5	V
5145.0	-67.6	6.3	9.9	-64.0	V
6860.0	-73.3	0.8	11.9	-62.2	V
8575.0	-70.5	0.9	11.2	-60.2	V
10290.0	-71.2	0.5	12.0	-59.7	V
12005.0	-70.3	0.4	12.2	-58.5	V

Test Data (10MHz bandwidth 20000 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3430.0	-68.9	6.9	8.9	-66.9	V
5145.0	-67.3	6.3	9.9	-63.7	V
6860.0	-73.0	0.8	11.9	-61.9	V
8575.0	-70.5	0.9	11.2	-60.2	V
10290.0	-71.6	0.5	12.0	-60.1	V
12005.0	-69.9	0.4	12.2	-58.1	V

Test Data (10MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
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3465.0	-67.8	6.9	8.9	-65.8	V
5197.5	-64.5	5.8	9.9	-60.4	V
6930.0	-65.5	0.9	11.9	-54.5	V
8662.5	-70.0	0.9	11.2	-59.7	V
10395.0	-72.0	0.7	12.2	-60.5	V
12127.5	-69.7	0.6	12.2	-58.1	V

Test Data (10MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-67.3	6.9	8.9	-65.3	V
5197.5	-68.2	5.8	9.9	-64.1	V
6930.0	-69.9	0.9	11.9	-58.9	V
8662.5	-70.1	0.9	11.2	-59.8	V
10395.0	-71.5	0.7	12.2	-60.0	V
12127.5	-70.0	0.6	12.2	-58.4	V

Test Data (10MHz bandwidth 20349 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3499.8	-68.4	7.0	8.9	-66.5	V
5249.7	-68.3	5.0	9.9	-63.4	V
6999.6	-73.4	0.9	11.9	-62.4	V
8749.5	-70.4	1.2	11.2	-60.4	V
10499.4	-71.6	0.6	12.2	-60.0	V
12249.3	-70.5	0.3	12.2	-58.6	V

Test Data (10MHz bandwidth 20349 16QAM Mode)

Frequency [MHz]	Generator output power(Pg)	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd)	Antenna Polarization [H/V]
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	[dBm]			[dBm]	
3499.8	-68.4	7.0	8.9	-66.5	V
5249.7	-68.9	5.0	9.9	-64.0	V
6999.6	-73.3	0.9	11.9	-62.3	V
8749.5	-69.6	1.2	11.2	-59.6	V
10499.4	-71.5	0.6	12.2	-59.9	V
12249.3	-70.0	0.3	12.2	-58.1	V

Test Data (15MHz bandwidth 20025 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3435.0	-68.6	6.9	8.9	-66.6	V
5152.5	-67.7	6.3	9.9	-64.1	V
6870.0	-72.9	0.8	11.9	-61.8	V
8587.5	-70.4	0.9	11.2	-60.1	V
10305.0	-72.6	0.7	12.2	-61.1	V
12022.5	-69.7	0.6	12.2	-58.1	V

Test Data (15MHz bandwidth 20025 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3435.0	-69.1	6.9	8.9	-67.1	V
5152.5	-67.9	6.3	9.9	-64.3	V
6870.0	-73.0	0.8	11.9	-61.9	V
8587.5	-70.7	0.9	11.2	-60.4	V
10305.0	-71.4	0.7	12.2	-59.9	V
12022.5	-69.9	0.6	12.2	-58.3	V

Test Data (15MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission	Antenna Polarization
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	power(Pg) [dBm]			Power (Pd) [dBm]	[H/V]
3465.0	-67.3	6.9	8.9	-65.3	V
5197.5	-67.2	6.3	9.9	-63.6	V
6930.0	-68.6	0.8	11.9	-57.5	V
8662.5	-70.4	0.9	11.2	-60.1	V
10395.0	-71.4	0.7	12.2	-59.9	V
12127.5	-70.1	0.6	12.2	-58.5	V

Test Data (15MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-68.7	6.9	8.9	-66.7	V
5197.5	-68.1	5.8	9.9	-64.0	V
6930.0	-73.4	0.9	11.9	-62.4	V
8662.5	-70.0	0.9	11.2	-59.7	V
10395.0	-71.6	0.7	12.2	-60.1	V
12127.5	-69.7	0.6	12.2	-58.1	V

Test Data (15MHz bandwidth 20324 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3494.8	-69.4	7.0	8.9	-67.5	V
5242.2	-69.6	5.0	9.9	-64.7	V
6989.6	-73.3	1.2	11.9	-62.6	V
8737.0	-69.6	1.2	11.2	-59.6	V
10484.4	-73.5	0.3	12.2	-61.6	V
12231.8	-70.2	0.3	12.2	-58.3	V

Test Data (15MHz bandwidth 20324 16QAM Mode)

Frequency	Generator	Cable loss	Antenna	Spurious	Antenna
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[MHz]	output power(Pg) [dBm]	[dB]	Gain [dB]	Emission Power (Pd) [dBm]	Polarization [H/V]
3494.8	-68.6	7.0	8.9	-66.7	V
5242.2	-68.9	5.0	9.9	-64.0	V
6989.6	-73.5	1.2	11.9	-62.8	V
8737.0	-70.0	1.2	11.2	-60.0	V
10484.4	-72.3	0.3	12.2	-60.4	V
12231.8	-70.5	0.3	12.2	-58.6	V

Test Data (20MHz bandwidth 20050 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3440.0	-68.5	6.9	8.9	-66.5	V
5160.0	-67.7	6.3	9.9	-64.1	V
6880.0	-72.4	0.8	11.9	-61.3	V
8600.0	-70.0	0.9	11.2	-59.7	V
10320.0	-71.6	0.7	12.2	-60.1	V
12040.0	-69.8	0.6	12.2	-58.2	V

Test Data (20MHz bandwidth 20050 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3440.0	-69.0	6.9	8.9	-67.0	V
5160.0	-66.7	6.3	9.9	-63.1	V
6880.0	-72.9	0.8	11.9	-61.8	V
8600.0	-70.3	0.9	11.2	-60.0	V
10320.0	-71.1	0.7	12.2	-59.6	V
12040.0	-69.5	0.6	12.2	-57.9	V

Test Data (20MHz bandwidth 20175 QPSK Mode)

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Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-69.3	6.9	8.9	-67.3	V
5197.5	-68.3	5.8	9.9	-64.2	V
6930.0	-70.5	0.9	11.9	-59.5	V
8662.5	-70.9	0.9	11.2	-60.6	V
10395.0	-71.7	0.7	12.2	-60.2	V
12127.5	-70.1	0.6	12.2	-58.5	V

Test Data (20MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-69.0	6.9	8.9	-67.0	V
5197.5	-68.4	5.8	9.9	-64.3	V
6930.0	-73.2	0.9	11.9	-62.2	V
8662.5	-70.0	0.9	11.2	-59.7	V
10395.0	-71.9	0.7	12.2	-60.4	V
12127.5	-69.9	0.6	12.2	-58.3	V

Test Data (20MHz bandwidth 20299 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3489.8	-69.5	7.0	8.9	-67.6	V
5234.7	-68.1	5.0	9.9	-63.2	V
6979.6	-73.0	0.9	11.9	-62.0	V
8724.5	-70.1	1.2	11.2	-60.1	V
10469.4	-72.5	0.3	12.2	-60.6	V
12214.3	-70.1	0.3	12.2	-58.2	V

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Test Data (20MHz bandwidth 20299 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3489.8	-68.6	7.0	8.9	-66.7	V
5234.7	-69.0	5.0	9.9	-64.1	V
6979.6	-73.0	0.9	11.9	-62.0	V
8724.5	-70.1	1.2	11.2	-60.1	V
10469.4	-72.2	0.3	12.2	-60.3	V
12214.3	-70.5	0.3	12.2	-58.6	V

5.4.3 LTE B5 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 20407 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1649.4	-68.3	4.7	7.3	-65.7	H
2474.1	-60.6	6.0	6.8	-59.8	V
3298.8	-67.0	6.7	8.9	-64.8	V
4123.5	-65.8	7.6	9.2	-64.2	V
4948.2	-65.4	7.7	9.9	-63.2	V
5772.9	-73.0	1.4	10.5	-63.9	V

Test Data (1.4MHz bandwidth 20407 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1649.4	-68.4	4.7	7.3	-65.8	H
2474.1	-60.6	6.0	6.8	-59.8	V
3298.8	-66.9	6.7	8.9	-64.7	V

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4123.5	-66.6	7.6	9.2	-65.0	V
4948.2	-65.4	7.7	9.9	-63.2	V
5772.9	-72.8	1.4	10.5	-63.7	V

Test Data (1.4MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-48.9	4.7	7.3	-46.3	V
2509.5	-56.3	5.9	6.7	-55.5	H
3346.0	-67.1	6.8	8.9	-65.0	V
4182.5	-66.1	7.8	9.2	-64.7	V
5019.0	-66.5	7.5	9.9	-64.1	V
5855.5	-72.7	1.1	10.5	-63.3	V

Test Data (1.4MHz bandwidth 20525 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-50.0	4.7	7.3	-47.4	V
2509.5	-56.9	5.9	6.7	-56.1	H
3346.0	-69.3	6.8	8.9	-67.2	V
4182.5	-66.6	7.8	9.2	-65.2	V
5019.0	-65.9	7.5	9.9	-63.5	V
5855.5	-73.6	1.1	10.5	-64.2	V

Test Data (1.4MHz bandwidth 20642 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1696.4	-68.3	4.8	7.9	-65.2	H
2544.6	-59.7	5.9	6.9	-58.7	V

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3392.8	-67.8	6.9	8.9	-65.8	V
4241.0	-65.9	7.8	9.2	-64.5	V
5089.2	-67.2	6.8	9.9	-64.1	V
5937.4	-72.6	1.4	10.9	-63.1	V

Test Data (1.4MHz bandwidth 20642 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1696.4	-67.5	4.8	7.9	-64.4	V
2544.6	-59.7	5.9	6.9	-58.7	H
3392.8	-68.8	6.9	8.9	-66.8	V
4241.0	-66.2	7.8	9.2	-64.8	V
5089.2	-66.9	6.8	9.9	-63.8	V
5937.4	-72.8	1.4	10.9	-63.3	V

Test Data (3MHz bandwidth 20415 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1651.0	-68.1	4.8	7.9	-65.0	H
2476.5	-60.3	5.9	6.9	-59.3	H
3302.0	-68.1	6.9	8.9	-66.1	V
4127.5	-66.0	7.8	9.2	-64.6	V
4953.0	-66.5	6.8	9.9	-63.4	V
5778.5	-73.0	1.4	10.9	-63.5	V

Test Data (3MHz bandwidth 20415 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1651.0	-68.2	4.8	7.9	-65.1	V

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2476.5	-60.4	5.9	6.9	-59.4	H
3302.0	-67.3	6.9	8.9	-65.3	V
4127.5	-66.3	7.8	9.2	-64.9	V
4953.0	-66.1	6.8	9.9	-63.0	V
5778.5	-73.3	1.4	10.9	-63.8	V

Test Data (3MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-51.9	4.7	7.3	-49.3	H
2509.5	-58.4	5.9	6.7	-57.6	H
3346.0	-67.5	6.8	8.9	-65.4	V
4182.5	-65.2	7.8	9.2	-63.8	V
5019.0	-65.2	7.5	9.9	-62.8	V
5855.5	-73.3	1.1	10.5	-63.9	V

Test Data (3MHz bandwidth 20525 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-51.7	4.7	7.3	-49.1	V
2509.5	-58.3	5.9	6.7	-57.5	H
3346.0	-69.0	6.8	8.9	-66.9	V
4182.5	-66.8	7.8	9.2	-65.4	V
5019.0	-66.0	7.5	9.9	-63.6	V
5855.5	-73.7	1.1	10.5	-64.3	V

Test Data (3MHz bandwidth 20634 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
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1694.8	-68.1	4.8	8.0	-64.9	H
2542.2	-60.6	5.9	6.9	-59.6	V
3389.6	-69.1	6.9	8.9	-67.1	V
4237.0	-66.5	7.8	9.2	-65.1	V
5084.4	-67.0	6.8	9.9	-63.9	V
5931.8	-72.8	1.4	10.9	-63.3	V

Test Data (3MHz bandwidth 20634 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1694.8	-68.7	4.8	8.0	-65.5	H
2542.2	-60.5	5.9	6.9	-59.5	H
3389.6	-69.5	6.9	8.9	-67.5	V
4237.0	-66.6	7.8	9.2	-65.2	V
5084.4	-67.1	6.8	9.9	-64.0	V
5931.8	-73.0	1.4	10.9	-63.5	V

Test Data (5MHz bandwidth 20425 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1653.0	-68.4	4.8	7.3	-65.9	H
2479.5	-59.8	5.9	6.6	-59.1	H
3306.0	-66.7	6.8	8.9	-64.6	V
4132.5	-66.4	7.6	9.2	-64.8	V
4959.0	-65.6	7.5	9.9	-63.2	V
5785.5	-73.0	1.4	10.5	-63.9	V

Test Data (5MHz bandwidth 20425 16QAM Mode)

Frequency [MHz]	Generator output power(Pg)	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd)	Antenna Polarization [H/V]
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	[dBm]			[dBm]	
1653.0	-68.2	4.8	7.3	-65.7	V
2479.5	-59.9	5.9	6.6	-59.2	H
3306.0	-66.7	6.8	8.9	-64.6	V
4132.5	-66.9	7.6	9.2	-65.3	V
4959.0	-65.5	7.5	9.9	-63.1	V
5785.5	-72.4	1.4	10.5	-63.3	V

Test Data (5MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-53.2	4.7	7.3	-50.6	H
2509.5	-58.9	5.9	6.7	-58.1	V
3346.0	-66.5	6.8	8.9	-64.4	V
4182.5	-66.2	7.8	9.2	-64.8	V
5019.0	-66.0	7.5	9.9	-63.6	V
5855.5	-72.8	1.1	10.5	-63.4	V

Test Data (5MHz bandwidth 20525 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-53.6	4.7	7.3	-51.0	H
2509.5	-58.7	5.9	6.7	-57.9	H
3346.0	-68.9	6.8	8.9	-66.8	V
4182.5	-66.2	7.8	9.2	-64.8	V
5019.0	-65.4	7.5	9.9	-63.0	V
5855.5	-73.2	1.1	10.5	-63.8	V

Test Data (5MHz bandwidth 20624 QPSK Mode)

Frequency [MHz]	Generator output	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission	Antenna Polarization
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	power(Pg) [dBm]			Power (Pd) [dBm]	[H/V]
1692.8	-68.6	4.8	8.0	-65.4	H
2539.2	-60.5	5.9	6.9	-59.5	V
3385.6	-68.9	6.9	8.9	-66.9	V
4232.0	-66.1	7.8	9.2	-64.7	V
5078.4	-66.8	6.8	9.9	-63.7	V
5924.8	-72.9	1.4	10.9	-63.4	V

Test Data (5MHz bandwidth 20624 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1692.8	-68.6	4.8	8.0	-65.4	V
2539.2	-60.3	5.9	6.9	-59.3	H
3385.6	-68.8	6.9	8.9	-66.8	V
4232.0	-66.0	7.8	9.2	-64.6	V
5078.4	-66.6	6.8	9.9	-63.5	V
5924.8	-72.9	1.4	10.9	-63.4	V

Test Data (10MHz bandwidth 20450 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1658.0	-68.1	4.8	7.6	-65.3	H
2487.0	-60.4	5.9	6.6	-59.7	V
3316.0	-67.0	6.8	8.9	-64.9	V
4145.0	-66.0	7.6	9.2	-64.4	V
4974.0	-65.1	7.5	9.9	-62.7	V
5803.0	-73.2	1.4	10.9	-63.7	V

Test Data (10MHz bandwidth 20450 16QAM Mode)

Frequency	Generator	Cable loss	Antenna	Spurious	Antenna
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[MHz]	output power(Pg) [dBm]	[dB]	Gain [dB]	Emission Power (Pd) [dBm]	Polarization [H/V]
1658.0	-68.0	4.8	7.6	-65.2	V
2487.0	-51.6	5.9	6.6	-50.9	H
3316.0	-67.1	6.8	8.9	-65.0	V
4145.0	-66.1	7.6	9.2	-64.5	V
4974.0	-65.9	7.5	9.9	-63.5	V
5803.0	-73.2	1.4	10.9	-63.7	V

Test Data (10MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-48.3	4.7	7.3	-45.7	H
2509.5	-52.3	5.9	6.7	-51.5	V
3346.0	-68.0	6.8	8.9	-65.9	V
4182.5	-66.1	7.8	9.2	-64.7	V
5019.0	-65.4	7.5	9.9	-63.0	V
5855.5	-72.8	1.1	10.5	-63.4	V

Test Data (10MHz bandwidth 20525 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-54.0	4.7	7.3	-51.4	V
2509.5	-60.0	5.9	6.7	-59.2	H
3346.0	-67.3	6.8	8.9	-65.2	V
4182.5	-67.1	7.8	9.2	-65.7	V
5019.0	-66.3	7.5	9.9	-63.9	V
5855.5	-72.6	1.1	10.5	-63.2	V

Test Data (10MHz bandwidth 20599 QPSK Mode)

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Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1687.8	-68.3	4.8	8.1	-65.0	H
2531.7	-60.4	5.9	6.9	-59.4	H
3375.6	-67.2	6.8	8.9	-65.1	V
4219.5	-66.3	7.8	9.2	-64.9	V
5063.4	-66.5	7.1	9.9	-63.7	V
5907.3	-72.7	1.4	10.9	-63.2	V

Test Data (10MHz bandwidth 20599 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1687.8	-68.9	4.8	8.1	-65.6	V
2531.7	-50.2	5.9	6.9	-49.2	H
3375.6	-67.0	6.8	8.9	-64.9	V
4219.5	-65.3	7.8	9.2	-63.9	V
5063.4	-66.5	7.1	9.9	-63.7	V
5907.3	-72.9	1.4	10.9	-63.4	V

5.4.4 LTE B7 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 20775 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5505.0	-64.5	2.5	10.3	-56.7	V
7507.5	-71.6	0.9	11.7	-60.8	V
10010.0	-72.3	0.3	12.8	-59.8	V
12512.5	-72.0	0.5	14.1	-58.4	V

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15015.0	-65.7	0.4	12.4	-53.7	V
17517.5	-62.6	0.3	12.0	-50.9	V

Test Data (5MHz bandwidth 20775 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5505.0	-71.5	2.5	10.3	-63.7	V
7507.5	-71.0	0.9	11.7	-60.2	V
10010.0	-71.7	0.3	12.8	-59.2	V
12512.5	-72.2	0.5	14.1	-58.6	V
15015.0	-66.1	0.4	12.4	-54.1	V
17517.5	-62.5	0.3	12.0	-50.8	V

Test Data (5MHz bandwidth 21100 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.0	-54.7	6.8	9.8	-51.7	V
7605.0	-54.1	1.1	11.7	-43.5	V
10140.0	-66.3	0.4	12.8	-53.9	V
12675.0	-67.3	0.5	14.1	-53.7	V
15210.0	-65.9	0.4	12.4	-53.9	V
17745.0	-61.5	0.3	12.0	-49.8	V

Test Data (5MHz bandwidth 21100 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.0	-55.8	6.8	9.8	-52.8	V
7605.0	-55.4	1.1	11.7	-44.8	V
10140.0	-68.2	0.4	12.8	-55.8	V

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12675.0	-67.0	0.5	14.1	-53.4	V
15210.0	-65.5	0.4	12.4	-53.5	V
17745.0	-61.1	0.3	12.0	-49.4	V

Test Data (5MHz bandwidth 21424 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5134.8	-64.3	6.3	9.8	-60.8	V
7702.2	-72.0	0.9	11.7	-61.2	V
10269.3	-72.2	0.7	13.2	-59.7	V
12837.0	-72.1	0.4	14.1	-58.4	V
15404.4	-66.2	0.5	12.4	-54.3	V
17971.8	-60.8	0.3	11.0	-50.1	V

Test Data (5MHz bandwidth 21424 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5134.8	-63.4	6.3	9.8	-59.9	V
7702.2	-72.1	0.9	11.7	-61.3	V
10269.3	-73.2	0.7	13.2	-60.7	V
12837.0	-72.5	0.4	14.1	-58.8	V
15404.4	-66.7	0.5	12.4	-54.8	V
17971.8	-60.5	0.3	11.0	-49.8	V

Test Data (10MHz bandwidth 20800 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5010.0	-65.1	7.1	9.8	-62.4	V
7515.0	-72.3	0.9	11.7	-61.5	V

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10020.0	-71.0	0.3	12.8	-58.5	V
12525.0	-72.1	0.5	14.1	-58.5	V
15030.0	-65.2	0.4	12.4	-53.2	V
17535.0	-60.7	0.5	12.0	-49.2	V

Test Data (10MHz bandwidth 20800 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5010.0	-65.0	7.1	9.8	-62.3	V
7515.0	-72.6	0.9	11.7	-61.8	V
10020.0	-72.6	0.3	12.8	-60.1	V
12525.0	-71.9	0.5	14.1	-58.3	V
15030.0	-65.4	0.4	12.4	-53.4	V
17535.0	-60.7	0.5	12.0	-49.2	V

Test Data (10MHz bandwidth 21100 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.0	-64.8	6.8	9.8	-61.8	V
7605.0	-72.7	1.1	11.7	-62.1	V
10140.0	-71.7	0.4	12.8	-59.3	V
12675.0	-72.0	0.5	14.1	-58.4	V
15210.0	-65.1	0.4	12.4	-53.1	V
17745.0	-61.1	0.3	12.0	-49.4	V

Test Data (10MHz bandwidth 21100 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.0	-57.5	6.8	9.8	-54.5	V

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7605.0	-57.8	1.1	11.7	-47.2	V
10140.0	-69.8	0.4	12.8	-57.4	V
12675.0	-69.0	0.5	14.1	-55.4	V
15210.0	-65.6	0.4	12.4	-53.6	V
17745.0	-61.4	0.3	12.0	-49.7	V

Test Data (10MHz bandwidth 21399 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5129.8	-64.1	6.3	9.8	-60.6	V
7694.7	-72.8	0.9	11.7	-62.0	V
10259.6	-71.5	0.5	12.8	-59.2	V
12824.5	-72.4	0.4	14.1	-58.7	V
15389.4	-66.5	0.5	12.4	-54.6	V
17954.3	-61.1	0.4	11.0	-50.5	V

Test Data (10MHz bandwidth 21399 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5129.8	-64.5	6.3	9.8	-61.0	V
7694.7	-72.7	0.9	11.7	-61.9	V
10259.6	-72.4	0.5	12.8	-60.1	V
12824.5	-72.1	0.4	14.1	-58.4	V
15389.4	-65.4	0.5	12.4	-53.5	V
17954.3	-59.7	0.4	11.0	-49.1	V

Test Data (15MHz bandwidth 20825 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
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5015.0	-65.1	7.1	9.8	-62.4	V
7522.5	-72.2	0.9	11.7	-61.4	V
10030.0	-72.1	0.4	13.2	-59.3	V
12537.5	-71.9	0.5	14.1	-58.3	V
15045.0	-65.8	0.4	12.4	-53.8	V
17552.5	-61.0	0.5	12.0	-49.5	V

Test Data (15MHz bandwidth 20825 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5015.0	-64.9	7.1	9.8	-62.2	V
7522.5	-71.6	0.9	11.7	-60.8	V
10030.0	-71.8	0.4	13.2	-59.0	V
12537.5	-71.6	0.5	14.1	-58.0	V
15045.0	-65.9	0.4	12.4	-53.9	V
17552.5	-61.3	0.5	12.0	-49.8	V

Test Data (15MHz bandwidth 21100 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.0	-65.6	6.8	9.8	-62.6	V
7605.0	-72.0	1.1	11.7	-61.4	V
10140.0	-72.4	0.4	12.8	-60.0	V
12675.0	-72.0	0.5	14.1	-58.4	V
15210.0	-65.4	0.4	12.4	-53.4	V
17745.0	-61.5	0.3	12.0	-49.8	V

Test Data (15MHz bandwidth 21100 16QAM Mode)

Frequency [MHz]	Generator output power(Pg)	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd)	Antenna Polarization [H/V]
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	[dBm]			[dBm]	
5070.0	-65.0	6.8	9.8	-62.0	V
7605.0	-77.7	1.1	11.7	-67.1	V
10140.0	-71.3	0.4	12.8	-58.9	V
12675.0	-72.2	0.5	14.1	-58.6	V
15210.0	-65.1	0.4	12.4	-53.1	V
17745.0	-61.1	0.3	12.0	-49.4	V

Test Data (15MHz bandwidth 21374 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5124.8	-64.6	6.3	9.8	-61.1	V
7687.2	-72.0	1.1	11.7	-61.4	V
10249.6	-71.2	0.5	12.8	-58.9	V
12812.0	-72.0	0.4	14.1	-58.3	V
15374.4	-65.7	0.5	12.4	-53.8	V
17936.8	-60.7	0.4	11.0	-50.1	V

Test Data (15MHz bandwidth 21374 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5124.8	-64.7	6.3	9.8	-61.2	V
7687.2	-72.2	1.1	11.7	-61.6	V
10249.6	-72.5	0.5	12.8	-60.2	V
12812.0	-72.4	0.4	14.1	-58.7	V
15374.4	-65.0	0.5	12.4	-53.1	V
17936.8	-59.7	0.4	11.0	-49.1	V

Test Data (20MHz bandwidth 20850 QPSK Mode)

Frequency [MHz]	Generator output	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission	Antenna Polarization
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	power(Pg) [dBm]			Power (Pd) [dBm]	[H/V]
5020.0	-64.5	7.1	9.8	-61.8	V
7530.0	-71.7	0.9	11.7	-60.9	V
10040.0	-72.1	0.4	13.2	-59.3	V
12550.0	-71.9	0.5	14.1	-58.3	V
15060.0	-65.9	0.4	12.4	-53.9	V
17570.0	-61.4	0.3	12.0	-49.7	V

Test Data (20MHz bandwidth 20850 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5020.0	-64.3	7.1	9.8	-61.6	V
7530.0	-72.7	0.9	11.7	-61.9	V
10040.0	-71.5	0.4	13.2	-58.7	V
12550.0	-71.9	0.5	14.1	-58.3	V
15060.0	-65.8	0.4	12.4	-53.8	V
17570.0	-61.9	0.3	12.0	-50.2	V

Test Data (20MHz bandwidth 21100 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.0	-64.4	6.8	9.8	-61.4	V
7605.0	-71.9	1.1	11.7	-61.3	V
10140.0	-71.7	0.4	12.8	-59.3	V
12675.0	-71.8	0.5	14.1	-58.2	V
15210.0	-65.5	0.4	12.4	-53.5	V
17745.0	-61.6	0.3	12.0	-49.9	V

Test Data (20MHz bandwidth 21100 16QAM Mode)

Frequency	Generator	Cable loss	Antenna	Spurious	Antenna
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[MHz]	output power(Pg) [dBm]	[dB]	Gain [dB]	Emission Power (Pd) [dBm]	Polarization [H/V]
5070.0	-65.2	6.8	9.8	-62.2	V
7605.0	-71.4	1.1	11.7	-60.8	V
10140.0	-71.0	0.4	12.8	-58.6	V
12675.0	-71.6	0.5	14.1	-58.0	V
15210.0	-65.1	0.4	12.4	-53.1	V
17745.0	-61.5	0.3	12.0	-49.8	V

Test Data (20MHz bandwidth 21349 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5119.8	-62.9	6.8	9.8	-59.9	V
7679.7	-71.8	1.1	11.7	-61.2	V
10239.6	-72.8	0.5	12.8	-60.5	V
12799.5	-71.6	0.4	14.1	-57.9	V
15359.4	-65.2	0.5	12.4	-53.3	V
17919.3	-59.7	0.4	11.0	-49.1	V

Test Data (20MHz bandwidth 21349 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5119.8	-63.3	6.8	9.8	-60.3	V
7679.7	-71.9	1.1	11.7	-61.3	V
10239.6	-71.4	0.5	12.8	-59.1	V
12799.5	-71.8	0.4	14.1	-58.1	V
15359.4	-65.4	0.5	12.4	-53.5	V
17919.3	-60.0	0.4	11.0	-49.4	V

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5.4.5 GSM850 GMSK Radiated Spurious Emission Results

Test Data (GMSK Mode channel 128)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1648.4	-56.5	4.8	7.3	-54.0	V
2472.6	-49.6	6.0	6.8	-48.8	V
3296.8	-53.5	6.7	8.9	-51.3	V
4121.0	-51.6	7.6	9.2	-50.0	V
4945.2	-50.0	7.7	9.9	-47.8	V
5769.4	-56.6	1.5	10.5	-47.6	V

Test Data (GMSK Mode channel 190)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1672.8	-57.6	4.7	7.3	-55.0	V
2509.2	-50.0	5.9	6.7	-49.2	V
3345.6	-53.6	6.8	8.9	-51.5	V
4182.0	-50.9	7.8	9.2	-49.5	V
5018.4	-50.5	7.5	9.9	-48.1	V
5854.8	-57.1	1.1	10.5	-47.7	V

Test Data (GMSK Mode channel 251)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1697.6	-58.6	4.8	8.0	-55.4	V
2546.4	-49.7	5.9	6.9	-48.7	V
3395.2	-54.2	6.9	8.9	-52.2	V
4244.0	-51.4	7.8	9.2	-50.0	V

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5092.8	-52.1	6.8	9.9	-49.0	V
5941.6	-57.3	1.4	10.9	-47.8	V

5.4.6 PCS1900 GMSK Radiated Spurious Emission Results

Test Data (GMSK Mode channel 512)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3700.4	-54.1	7.2	8.9	-52.4	H
5550.6	-59.2	2.0	10.5	-50.7	V
7400.8	-57.5	0.9	11.9	-46.5	H
9251.0	-54.2	1.0	11.5	-43.7	V
11101.2	-53.8	0.3	12.1	-42.0	V
12951.4	-52.8	0.4	12.4	-40.8	V

Test Data (GMSK Mode channel 661)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-54.0	7.3	8.9	-52.4	H
5640.0	-58.7	1.8	10.5	-50.0	H
7520.0	-58.5	0.9	11.9	-47.5	H
9400.0	-55.3	0.8	11.8	-44.3	V
11280.0	-53.0	0.3	12.1	-41.2	V
13160.0	-52.1	0.4	12.4	-40.1	V

Test Data (GMSK Mode channel 810)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3819.6	-55.2	7.4	9.2	-53.4	H

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5729.4	-59.3	1.5	10.5	-50.3	V
7639.2	-57.6	1.1	11.9	-46.8	H
9549.0	-55.6	0.9	11.8	-44.7	V
11458.8	-53.1	0.8	12.2	-41.7	V
13368.6	-53.0	0.4	12.4	-41.0	V

Report No.: I21W00031-WWAN_Rev3**5.5 Band Edge**

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
IMEI Number:	863069057875503
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	pass

Limit Level Construction:

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

According to Part 24.238 (a), i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$.

According to Part 27.53(h):

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

According to Part 27.53(m):

For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels:

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

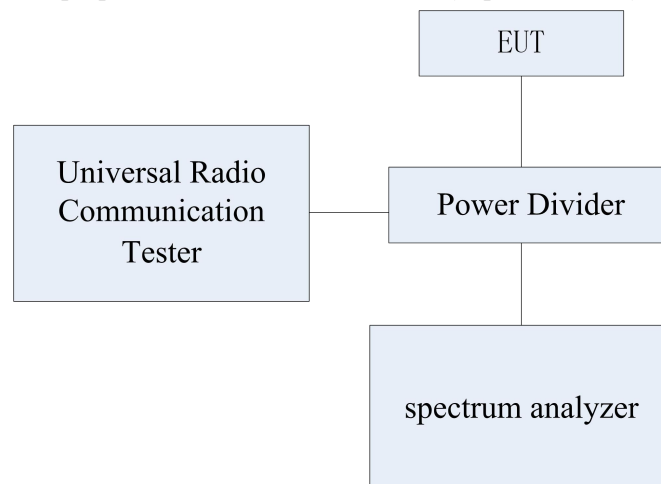
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Report No.: I21W00031-WWAN_Rev3

Test Setup:

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



Test Method:

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

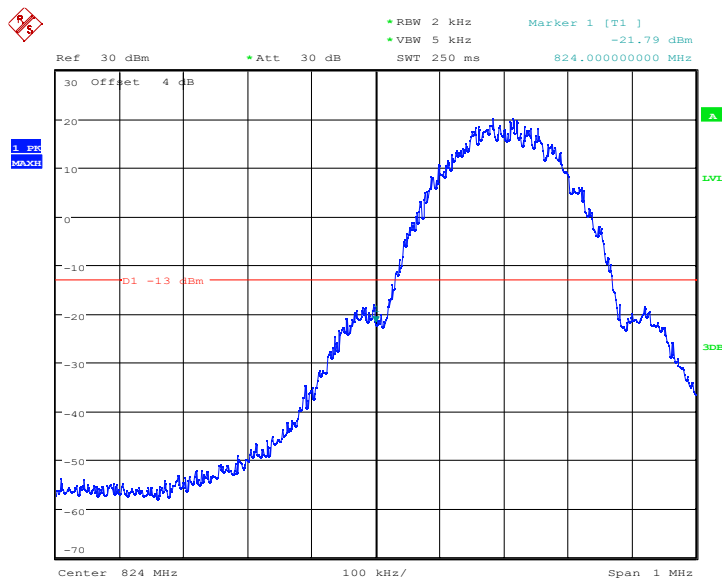
Note: In the graphical result description (X, Y), X represents the number of RB, Y represents the RB offset.

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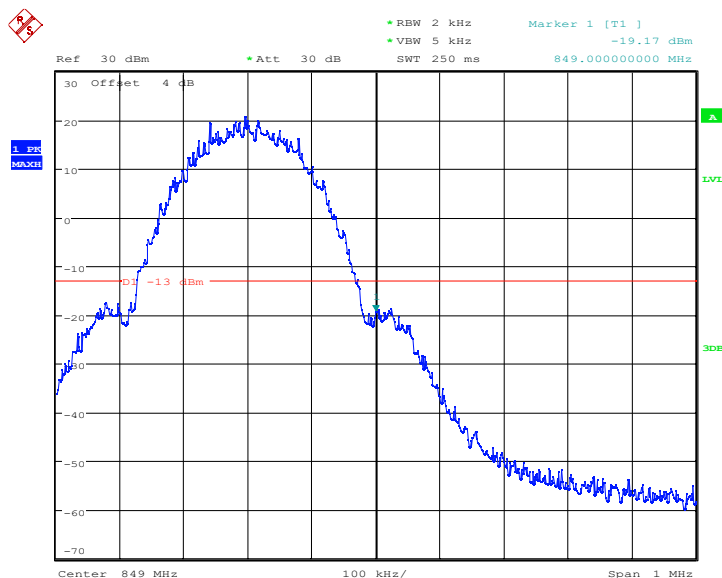
Report No.: I21W00031-WWAN_Rev3

5.5.1 GSM850 Band Edge Results



Date: 2.SEP.2021 21:56:40

GMSK; Cellular low channel, below 824 MHz



Date: 2.SEP.2021 21:57:28

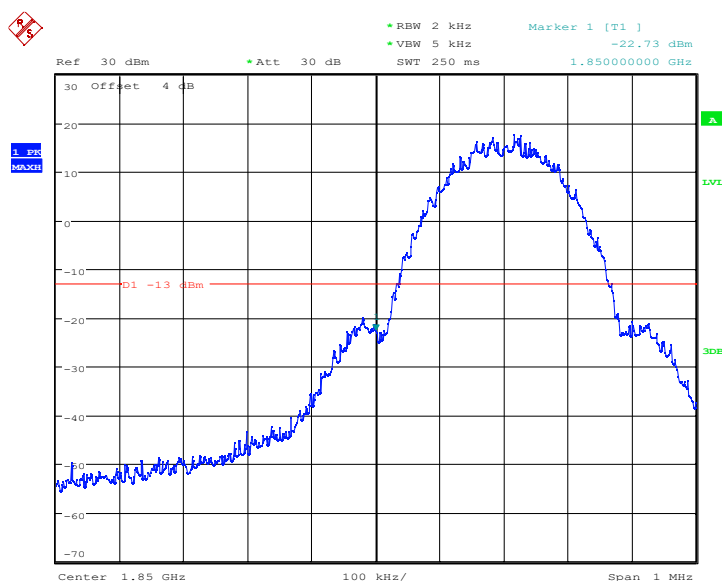
GMSK; Cellular high channel, above 849 MHz

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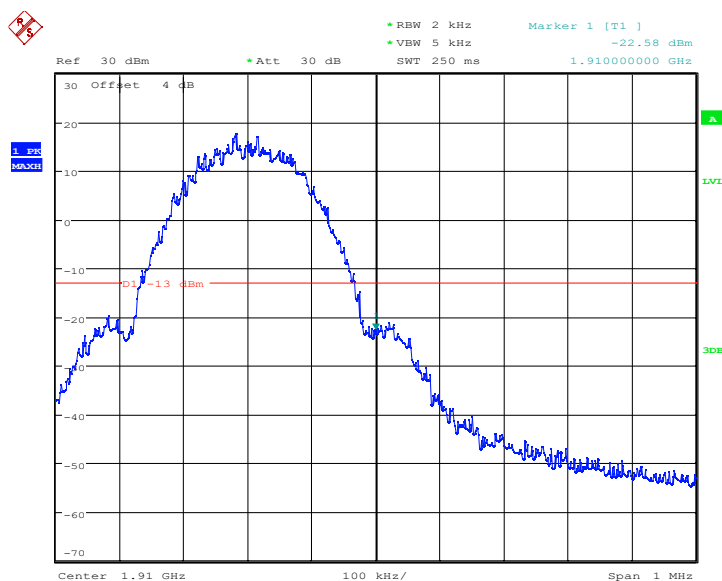
Report No.: I21W00031-WWAN_Rev3

5.5.2 PCS1900 Band Edge Results



Date: 2.SEP.2021 21:54:13

GMSK; PCS low channel, below 1850 MHz



Date: 2.SEP.2021 21:54:46

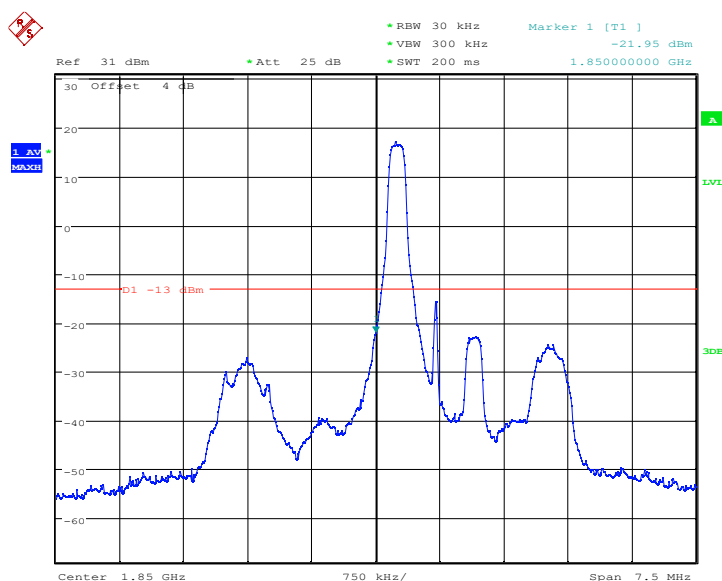
GMSK; PCS high channel, above 1910 MHz

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

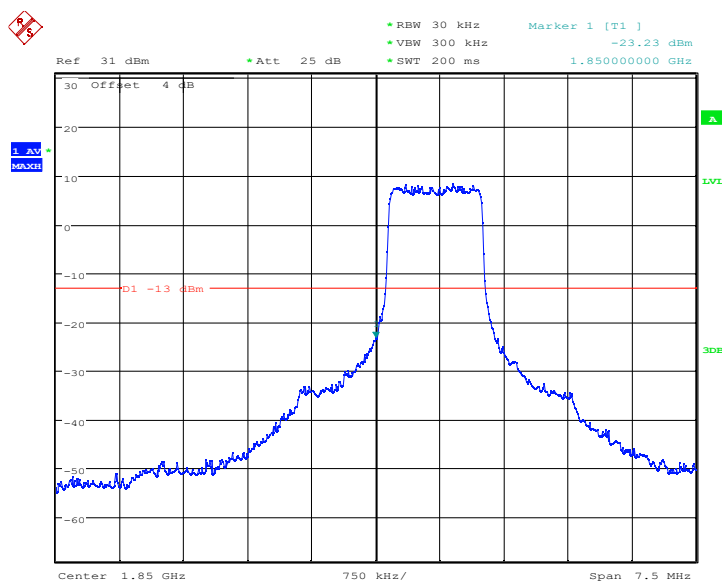
Report No.: I21W00031-WWAN_Rev3

5.5.3 LTE B2 Band Edge Results



Date: 2.SEP.2021 10:42:22

LTE Band2, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



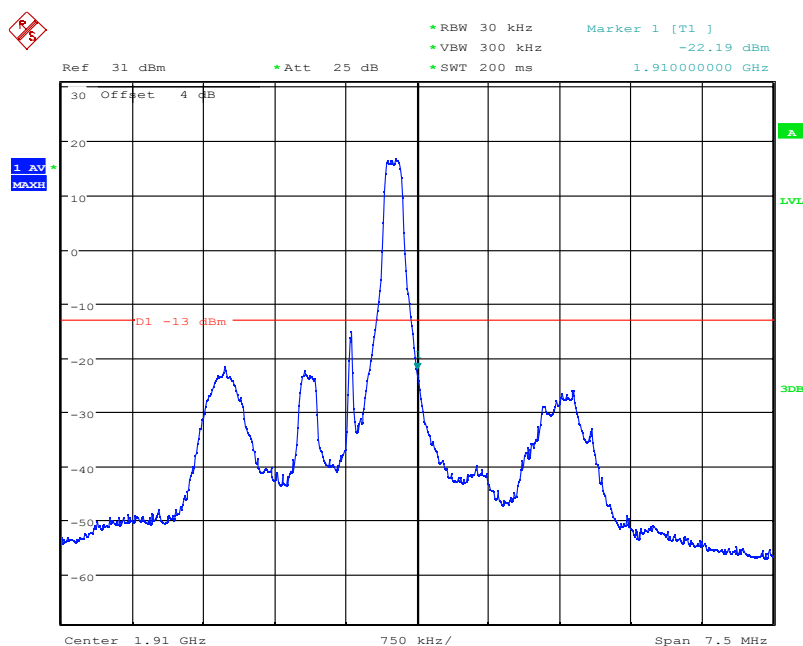
Date: 2.SEP.2021 10:42:38

LTE Band2, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 1850MHz

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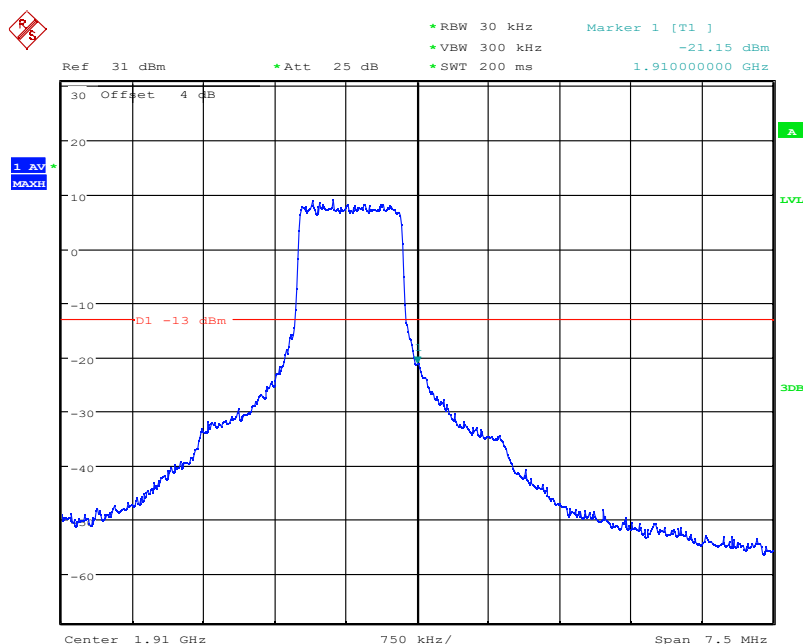
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:46:38

LTE Band2, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1910MHz



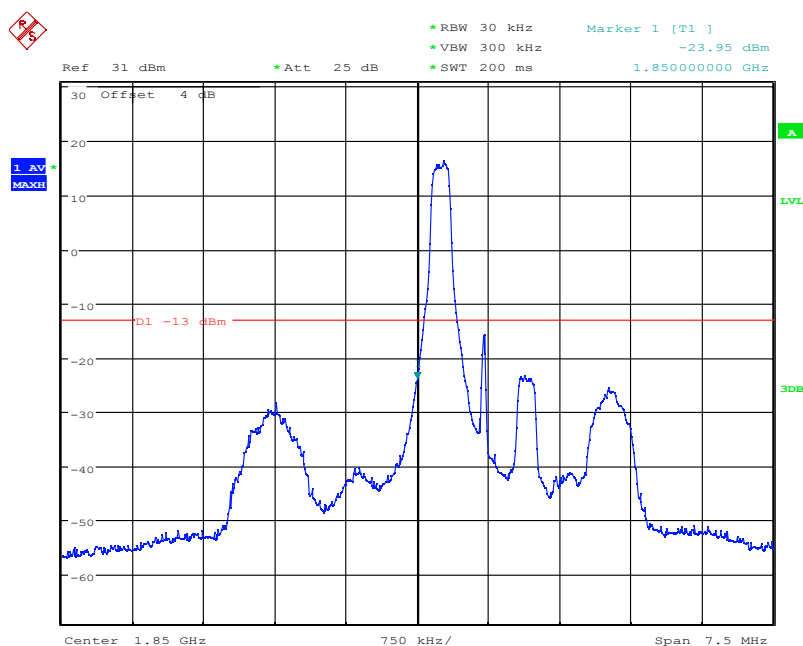
Date: 2.SEP.2021 10:46:59

LTE Band2, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1910MHz

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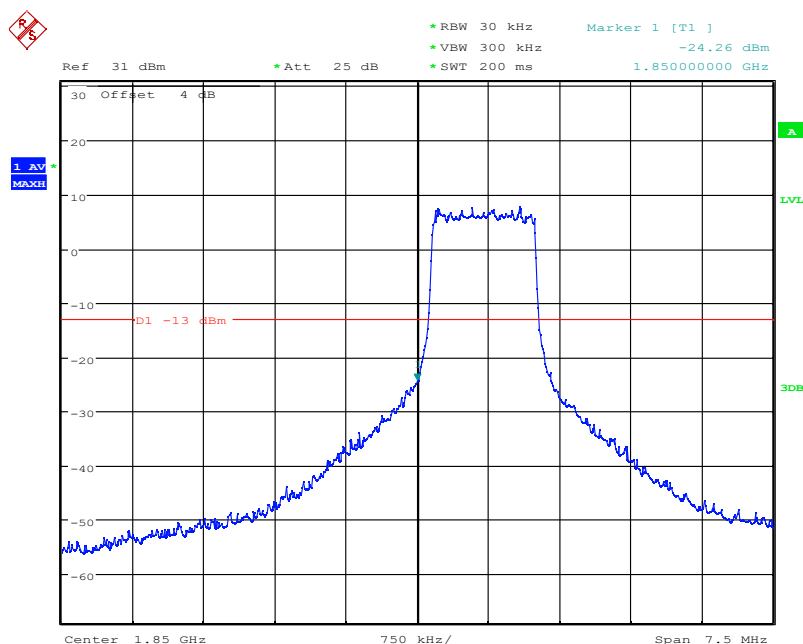
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:45:28

LTE Band2, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



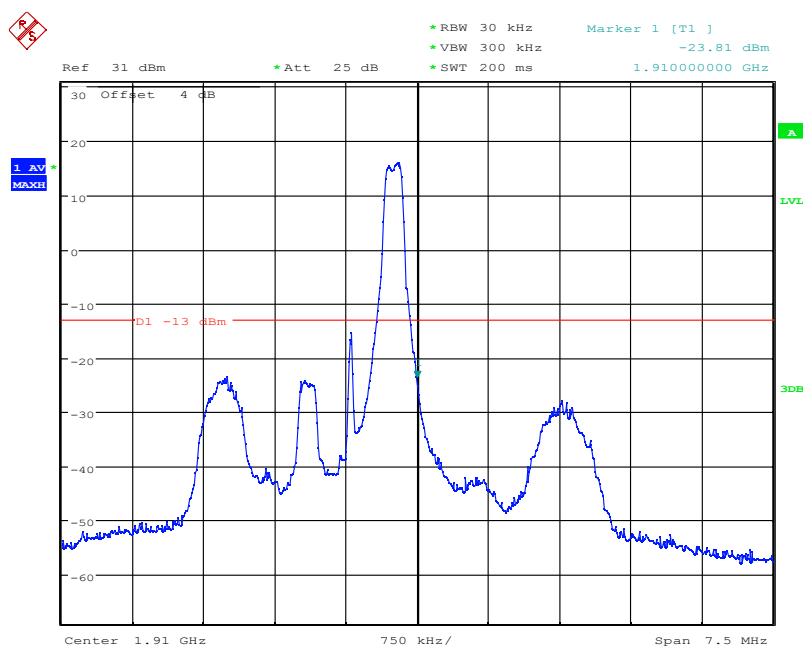
Date: 2.SEP.2021 10:45:47

LTE Band2, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1850MHz

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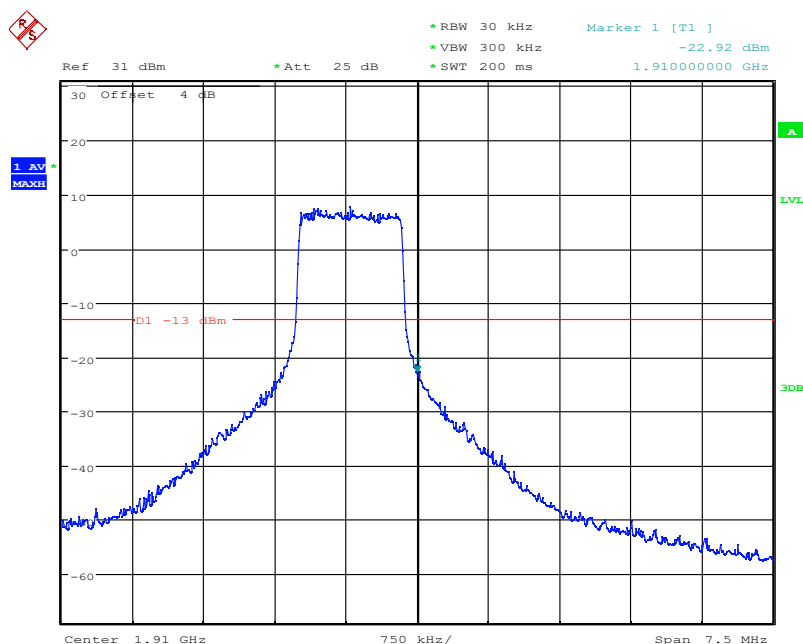
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:47:37

LTE Band2, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 1910MHz



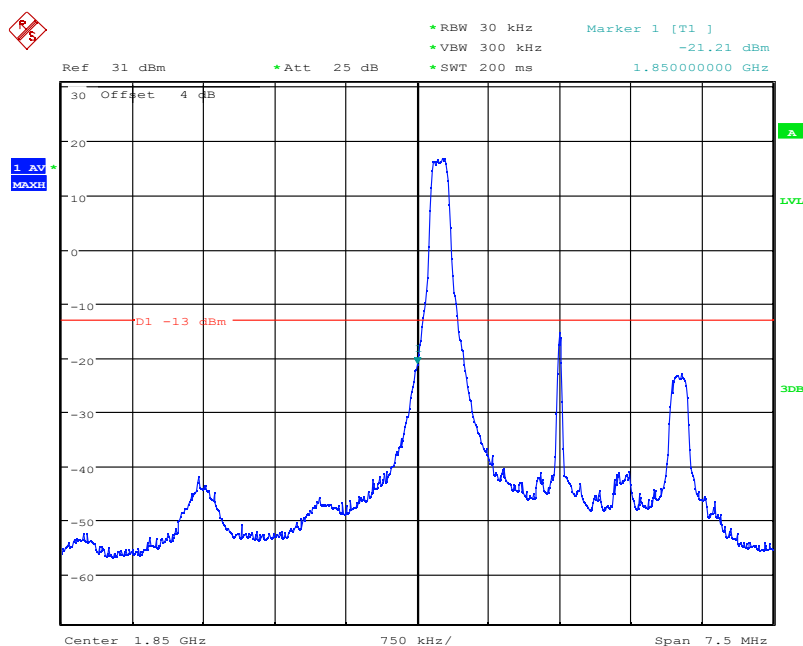
Date: 2.SEP.2021 10:47:14

LTE Band2, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 1910MHz

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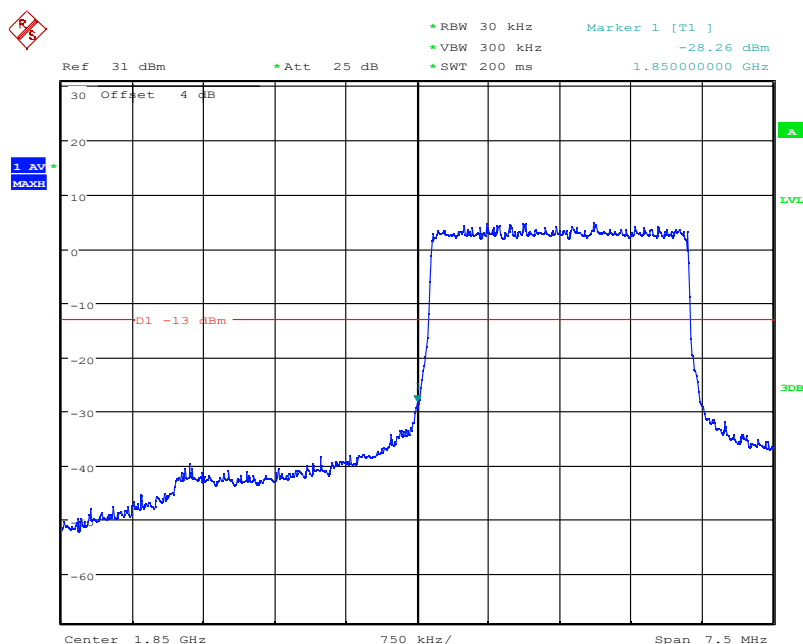
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:48:31

LTE Band2, 3MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



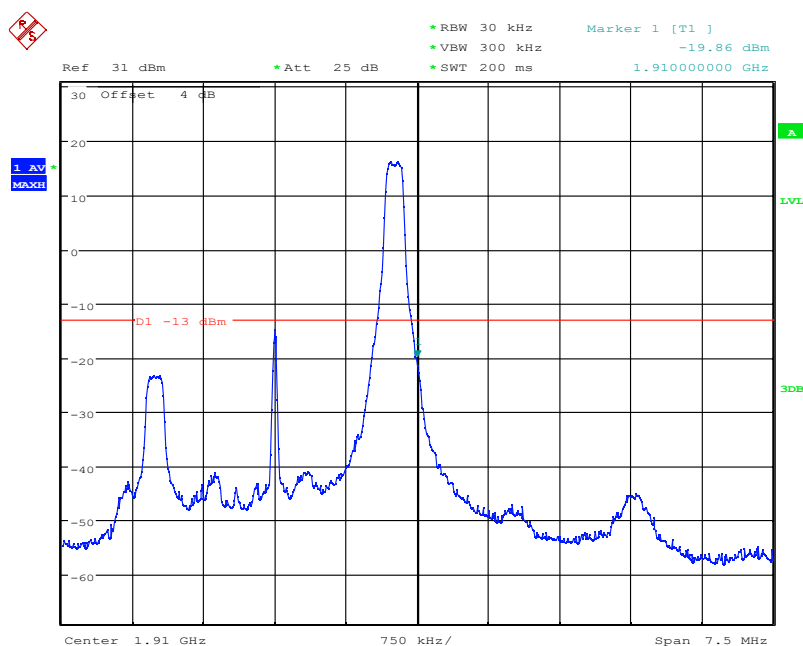
Date: 2.SEP.2021 10:48:48

LTE Band2, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1850MHz

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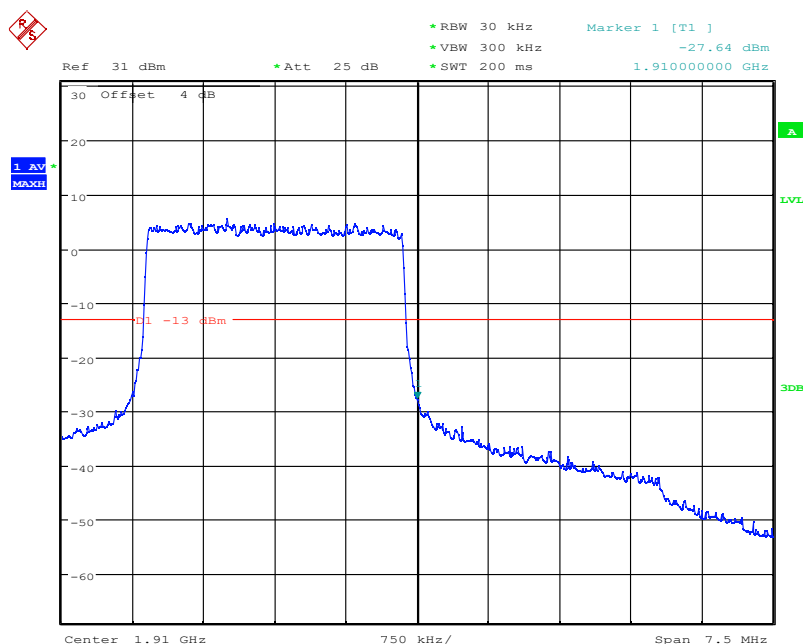
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:51:04

LTE Band2, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1910MHz



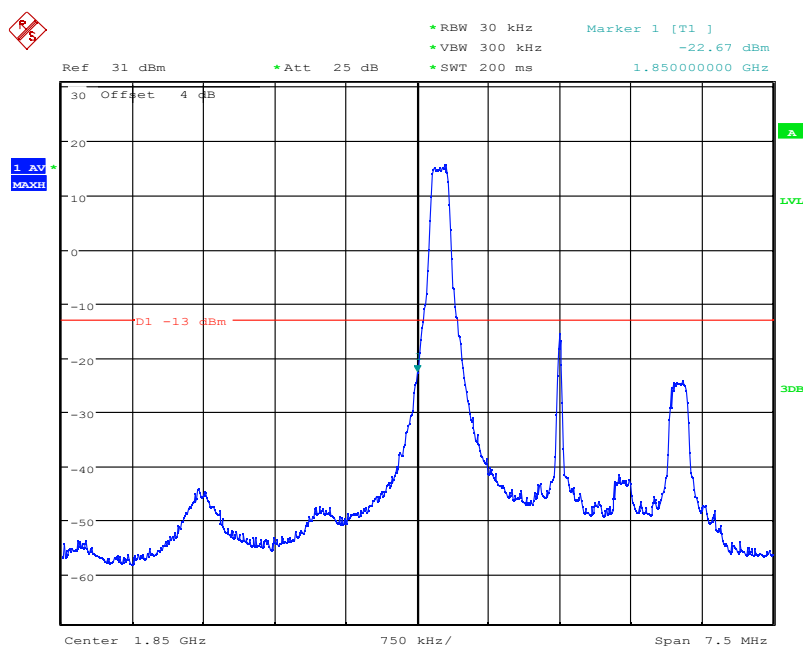
Date: 2.SEP.2021 10:50:47

LTE Band2, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1910MHz

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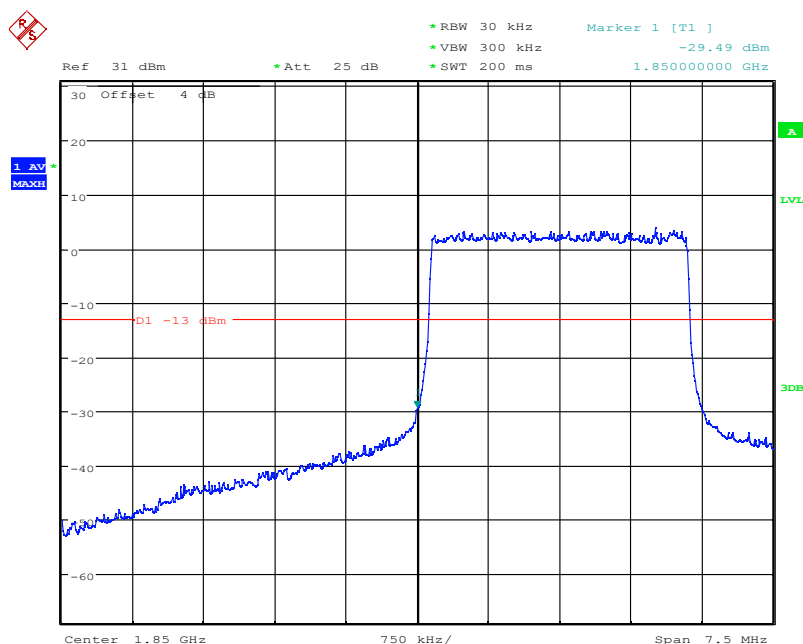
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:49:31

LTE Band2, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



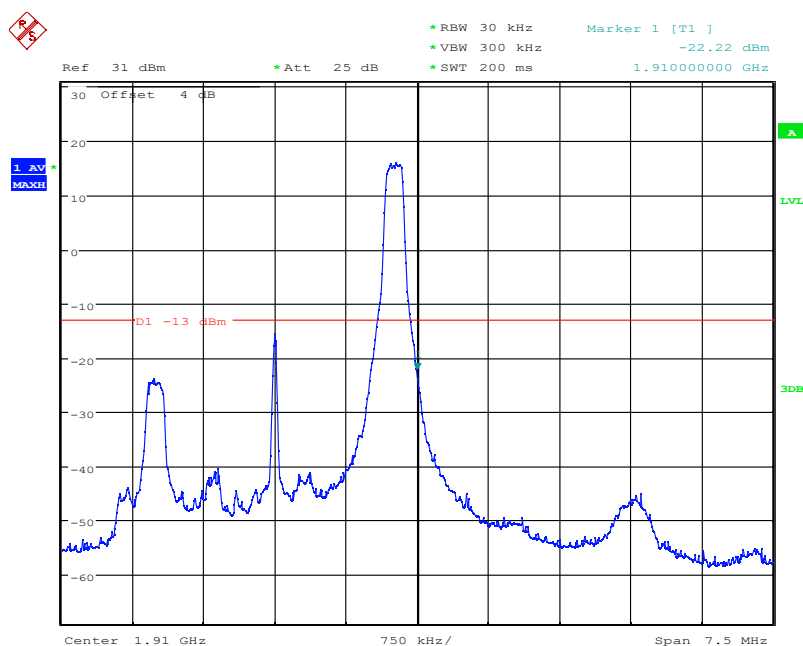
Date: 2.SEP.2021 10:49:08

LTE Band2, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1850MHz

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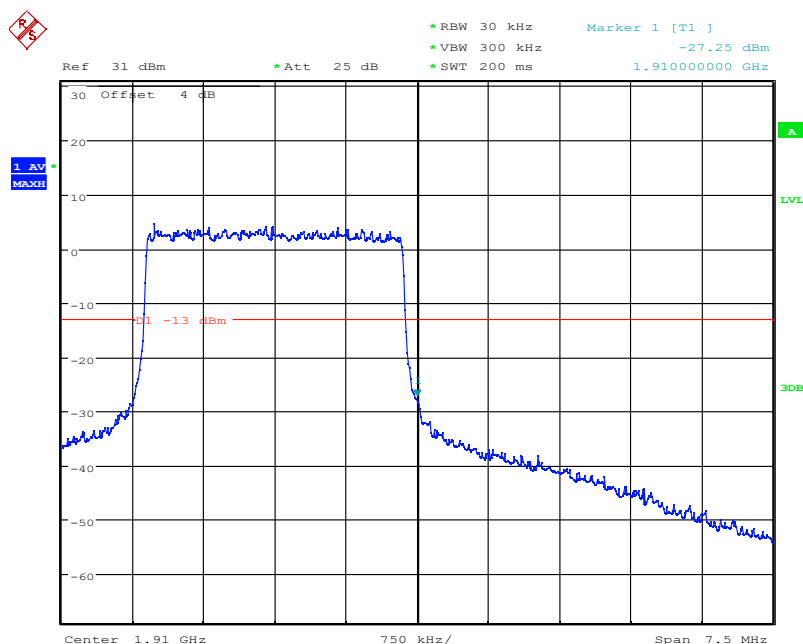
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:50:14

LTE Band2, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 1910MHz



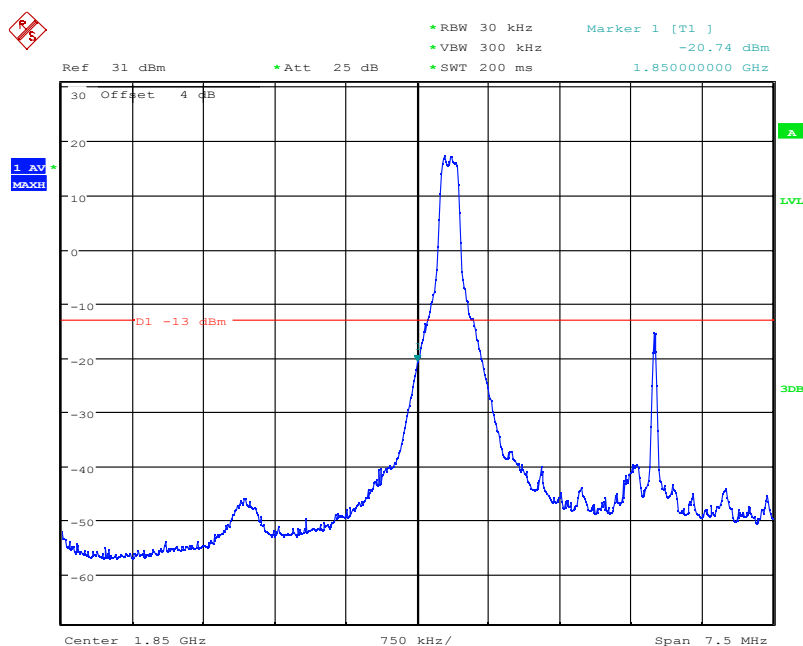
Date: 2.SEP.2021 10:50:30

LTE Band2, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 1910MHz

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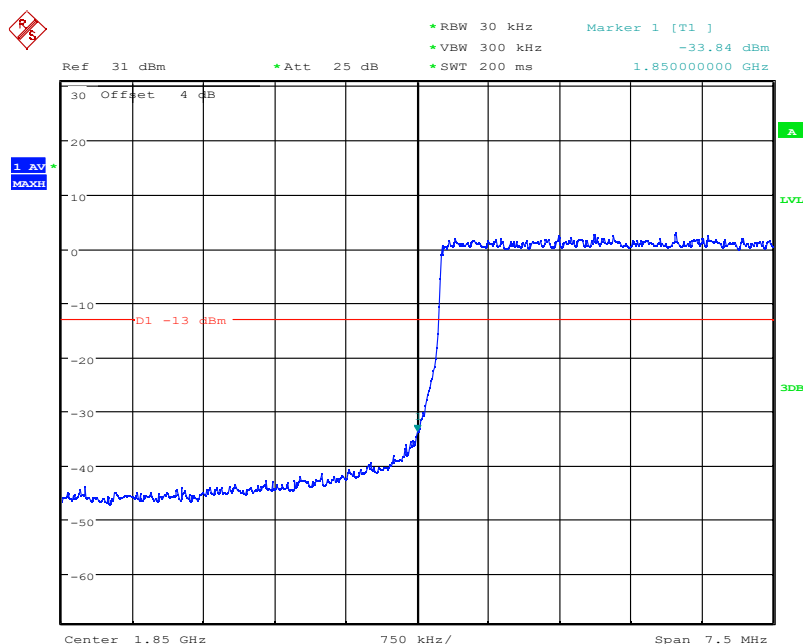
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:08:44

LTE Band2, 5MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



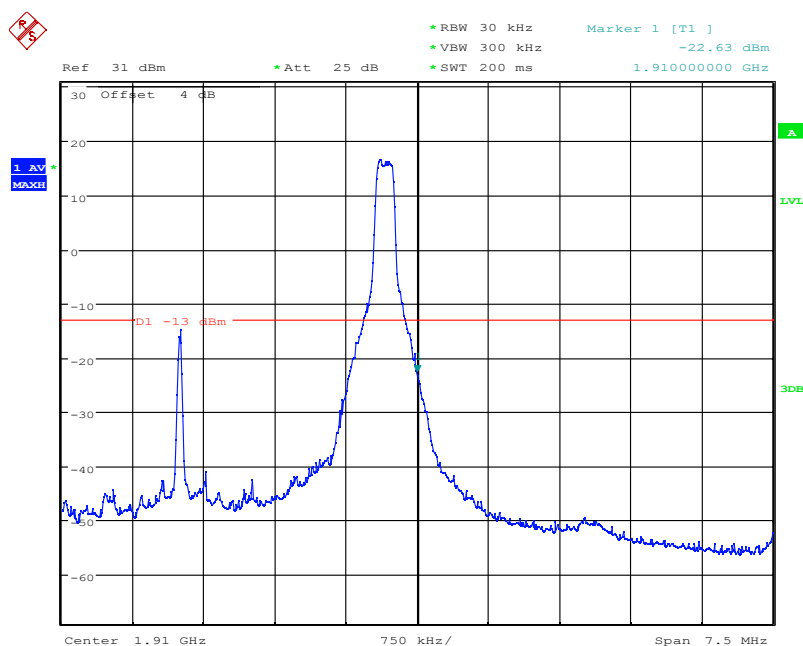
Date: 2.SEP.2021 11:09:02

LTE Band2, 5MHz bandwidth, QPSK,(25,0) Mode , Below 1850MHz

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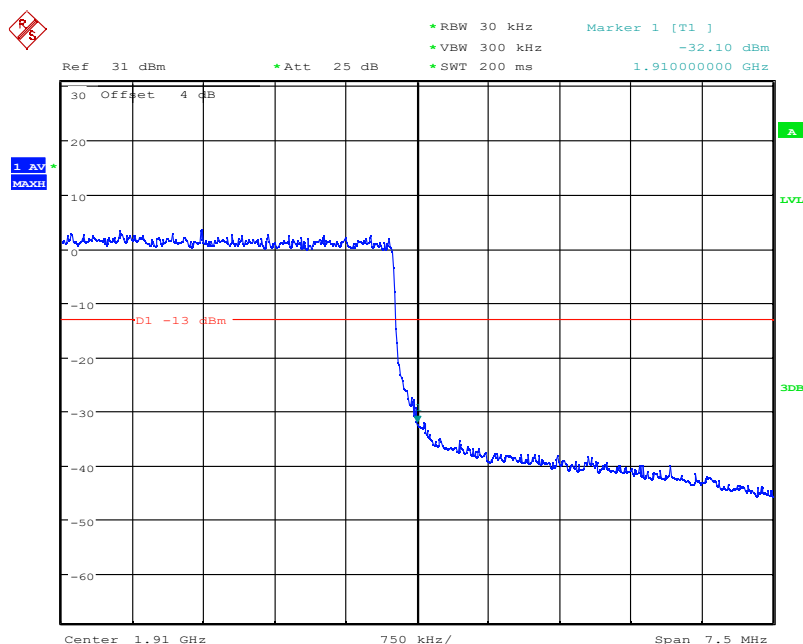
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:53:42

LTE Band2, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1910MHz



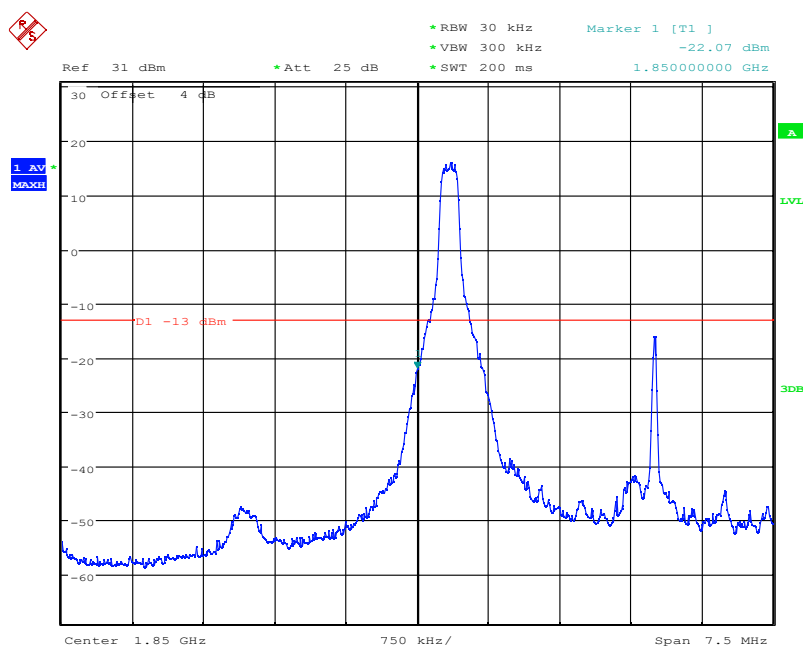
Date: 2.SEP.2021 10:53:57

LTE Band2, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1910MHz

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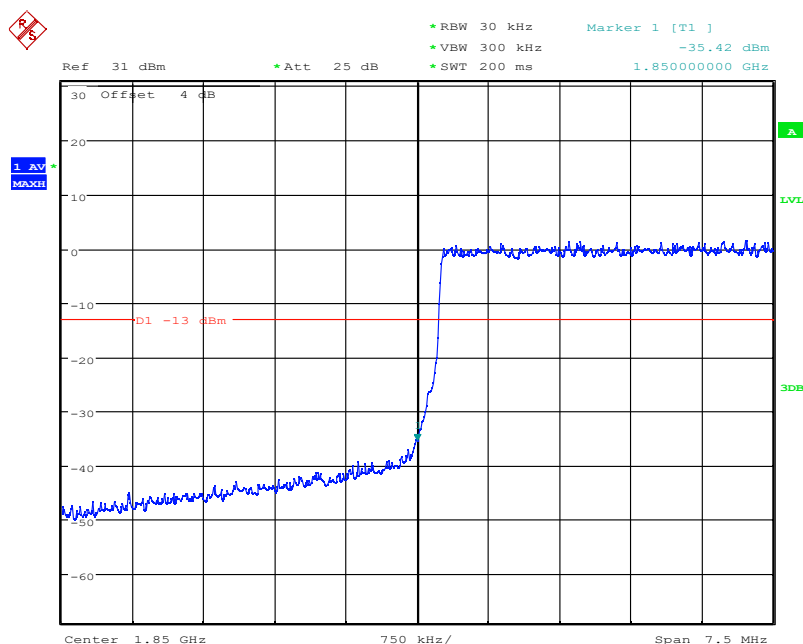
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:54:59

LTE Band2, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



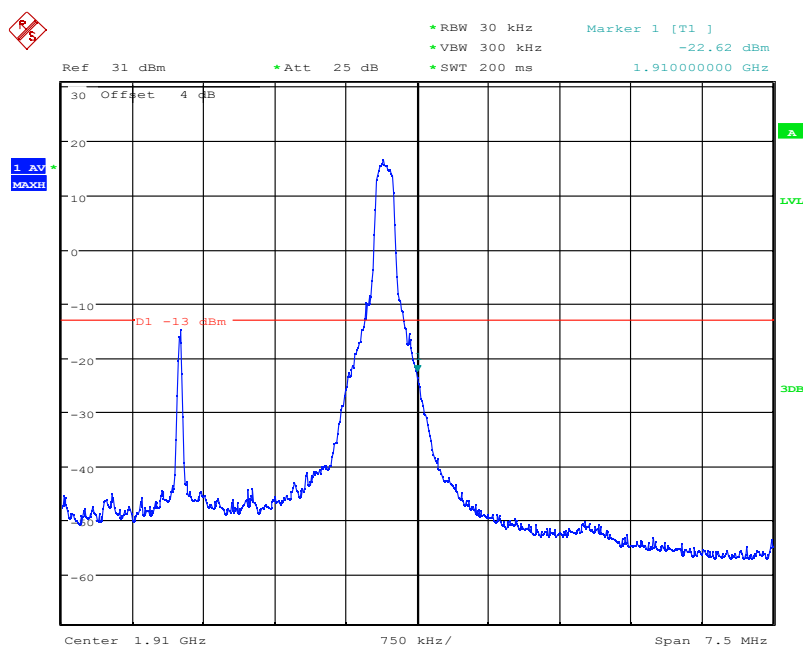
Date: 2.SEP.2021 10:55:15

LTE Band2, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 1850MHz

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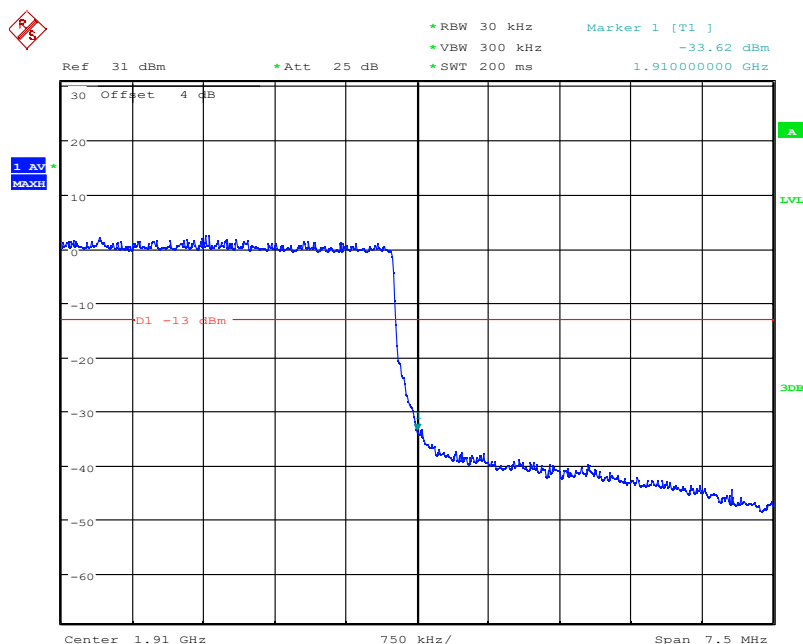
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:54:27

LTE Band2, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1910MHz



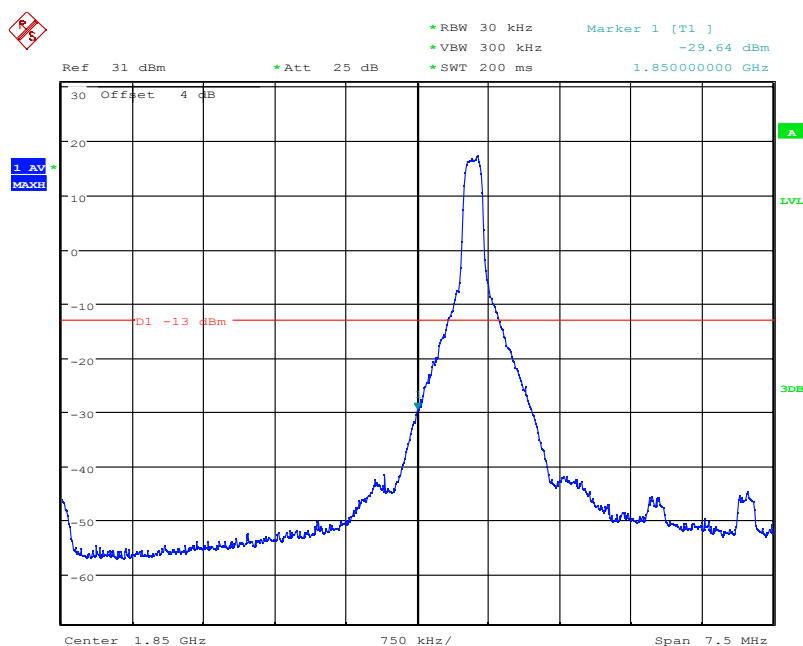
Date: 2.SEP.2021 10:54:14

LTE Band2, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 1910MHz

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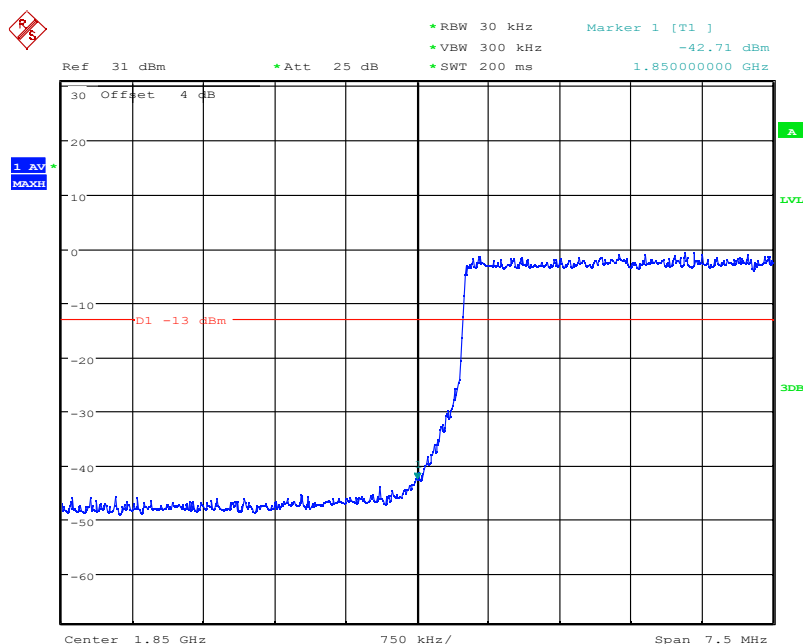
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:56:15

LTE Band2, 10MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



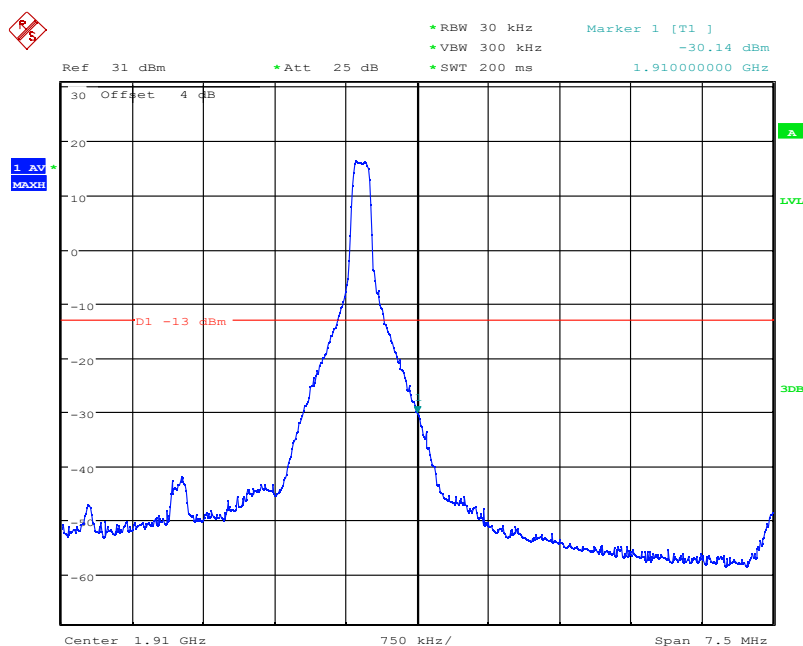
Date: 2.SEP.2021 10:56:28

LTE Band2, 10MHz bandwidth, QPSK,(50,0) Mode , Below 1850MHz

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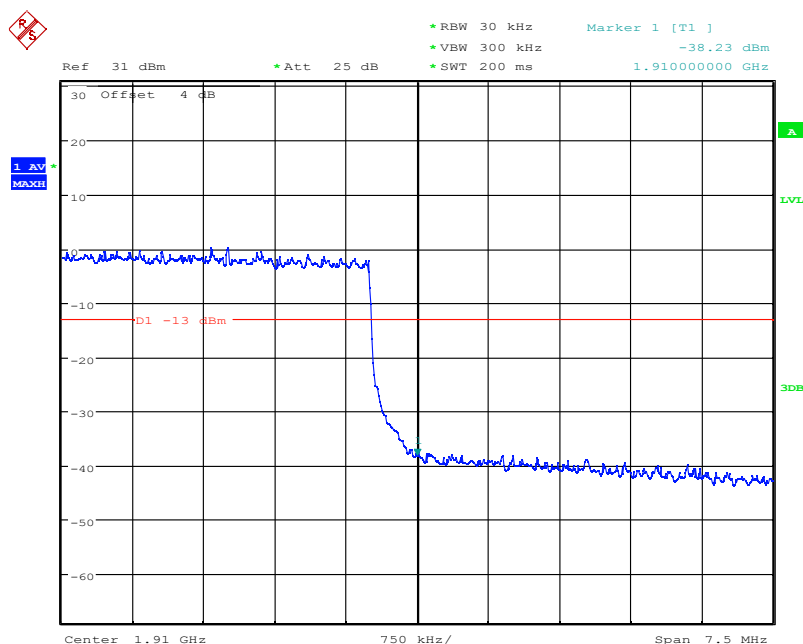
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:57:52

LTE Band2, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1910MHz



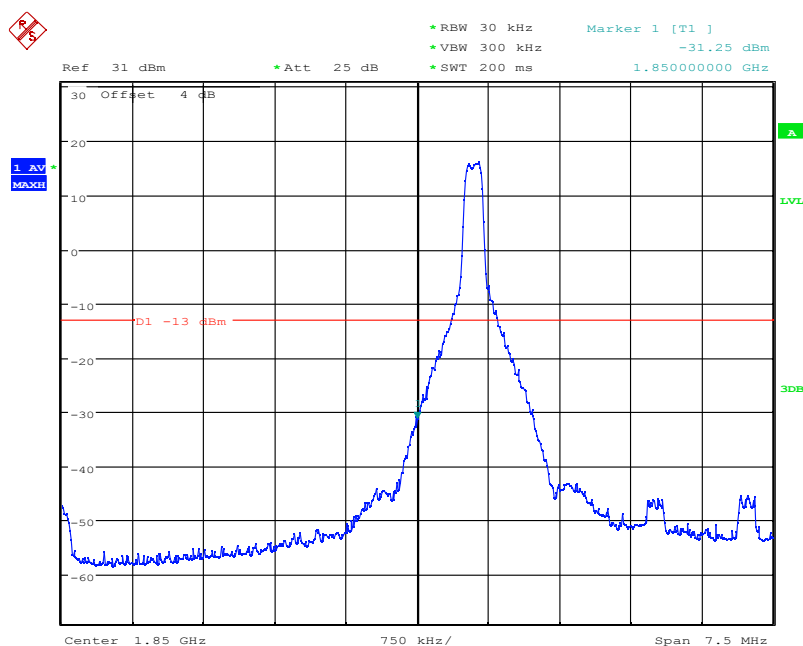
Date: 2.SEP.2021 10:58:08

LTE Band2, 10MHz bandwidth, QPSK,(50,0) Mode, Above 1910MHz

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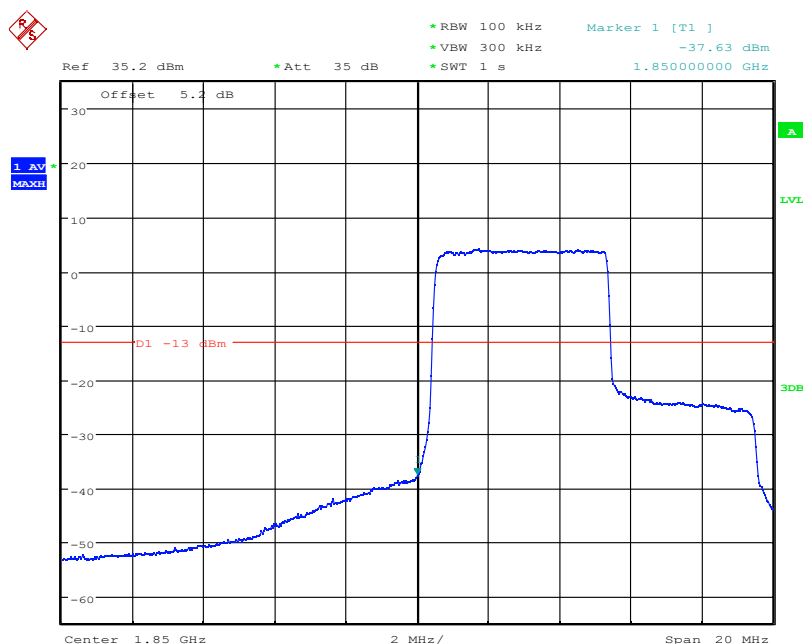
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:57:00

LTE Band2, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



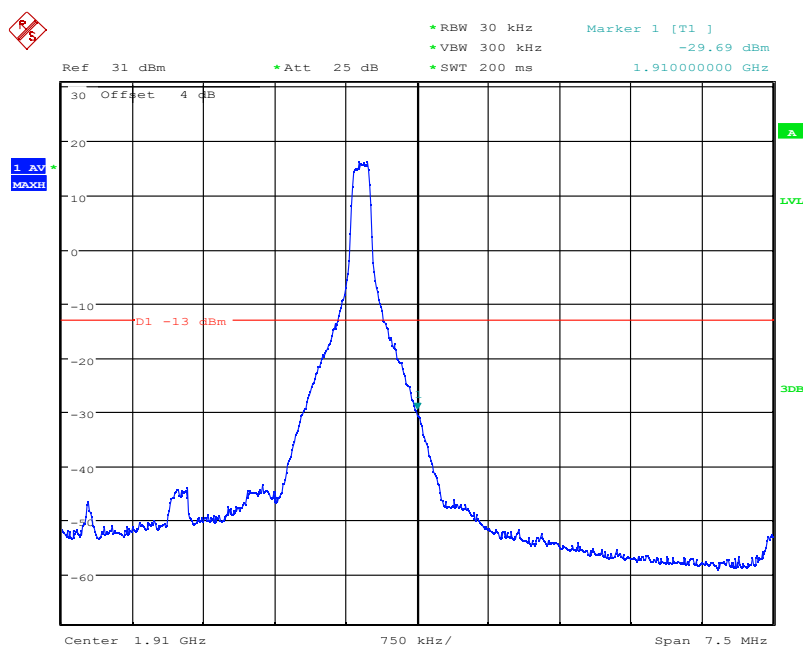
Date: 8.SEP.2021 10:52:06

LTE Band2, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 1850MHz

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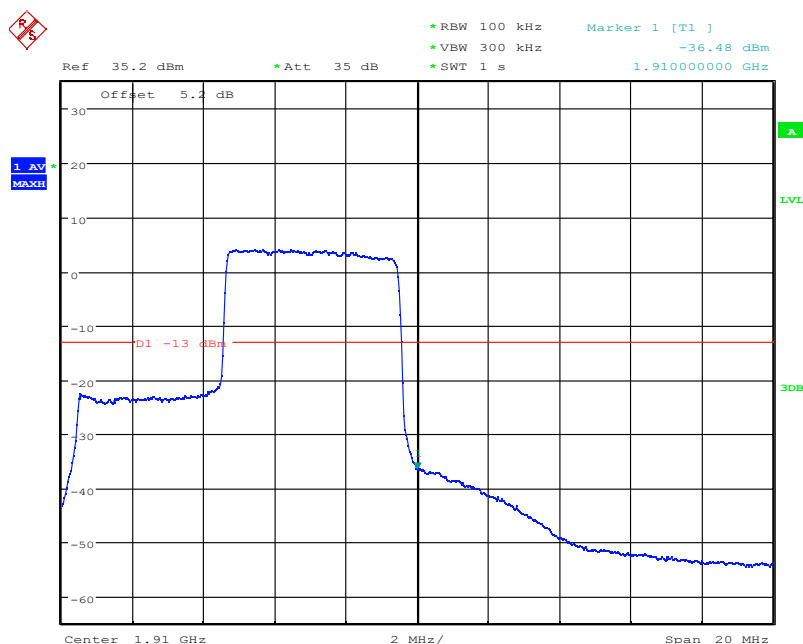
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 10:58:36

LTE Band2, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1910MHz



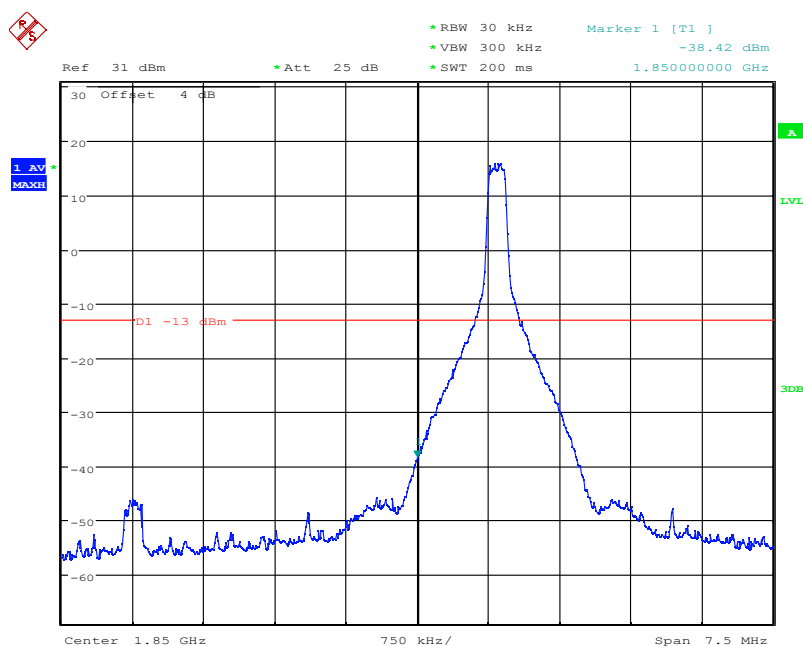
Date: 8.SEP.2021 10:52:35

LTE Band2, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz

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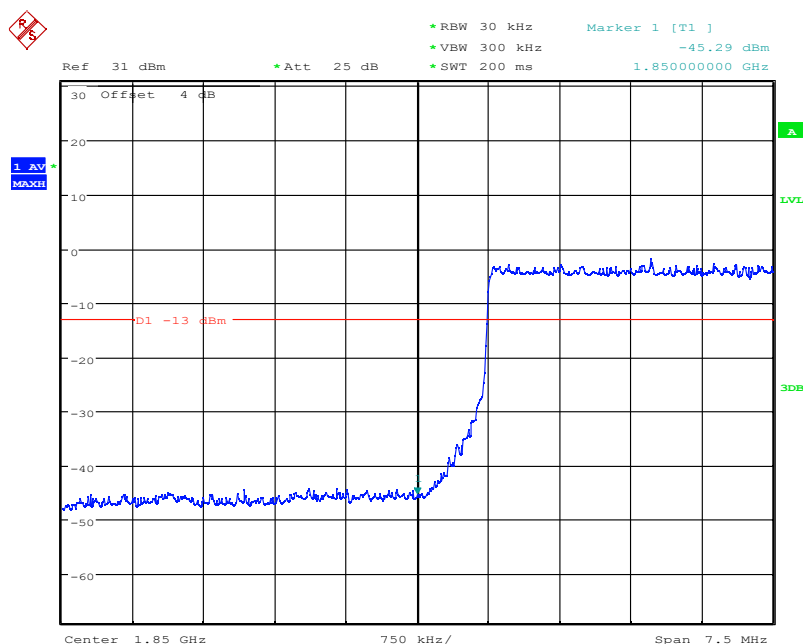
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:01:18

LTE Band2, 15MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



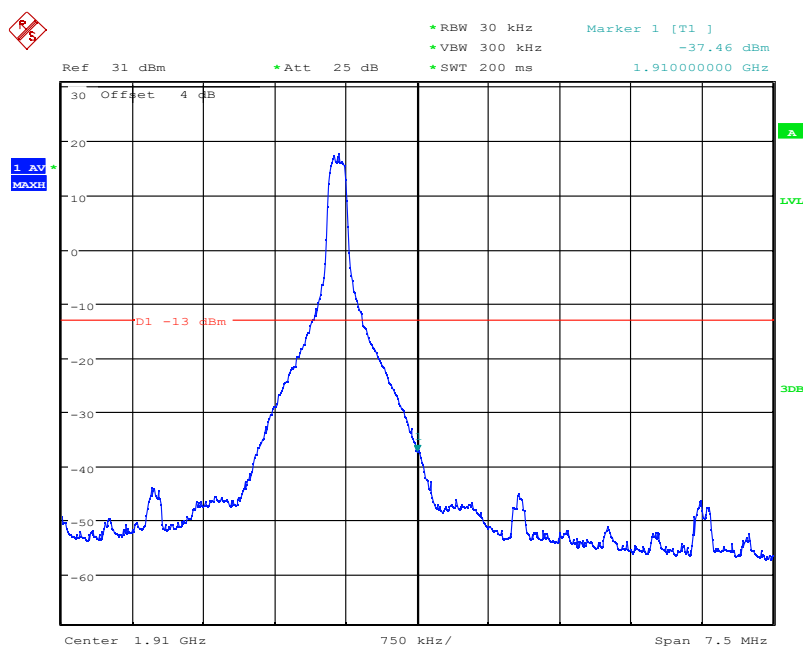
Date: 2.SEP.2021 11:01:58

LTE Band2, 15MHz bandwidth, QPSK,(75,0) Mode , Below 1850MHz

Chongqing Academy of Information and Communication Technology

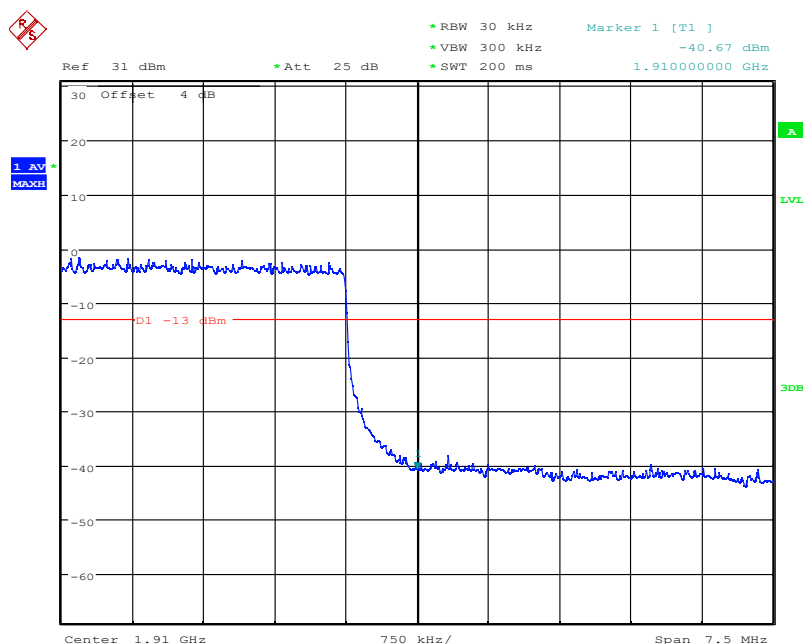
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:00:02

LTE Band2, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1910MHz



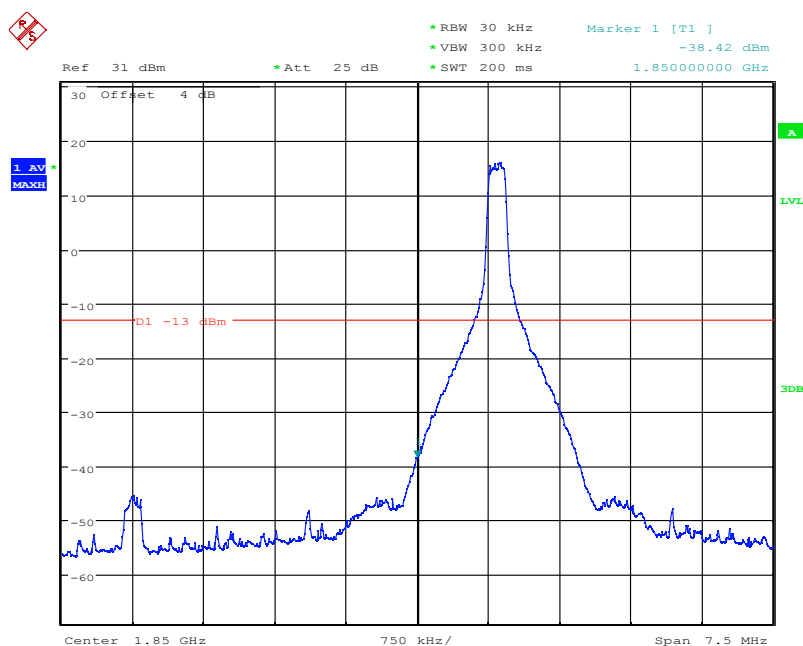
Date: 2.SEP.2021 11:00:19

LTE Band2, 15MHz bandwidth, QPSK,(75,0) Mode, Above 1910MHz

Chongqing Academy of Information and Communication Technology

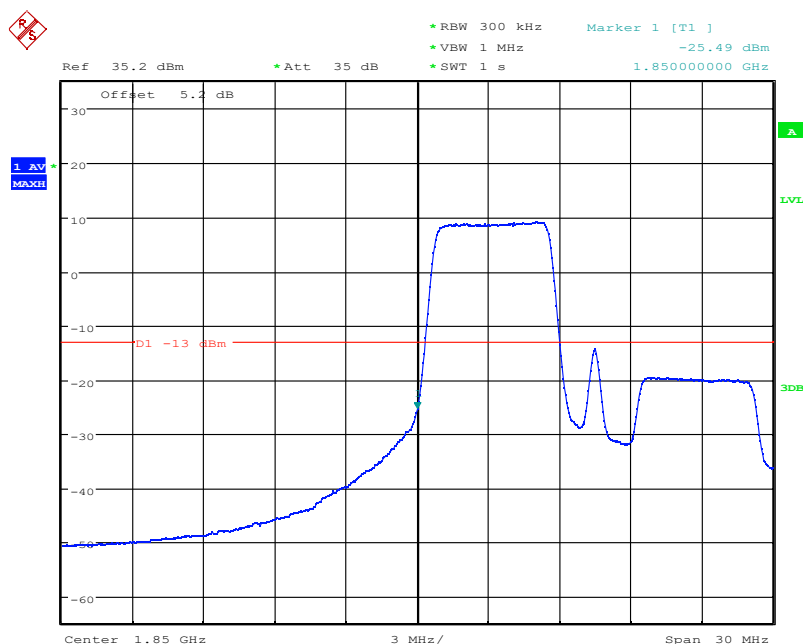
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:01:35

LTE Band2, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



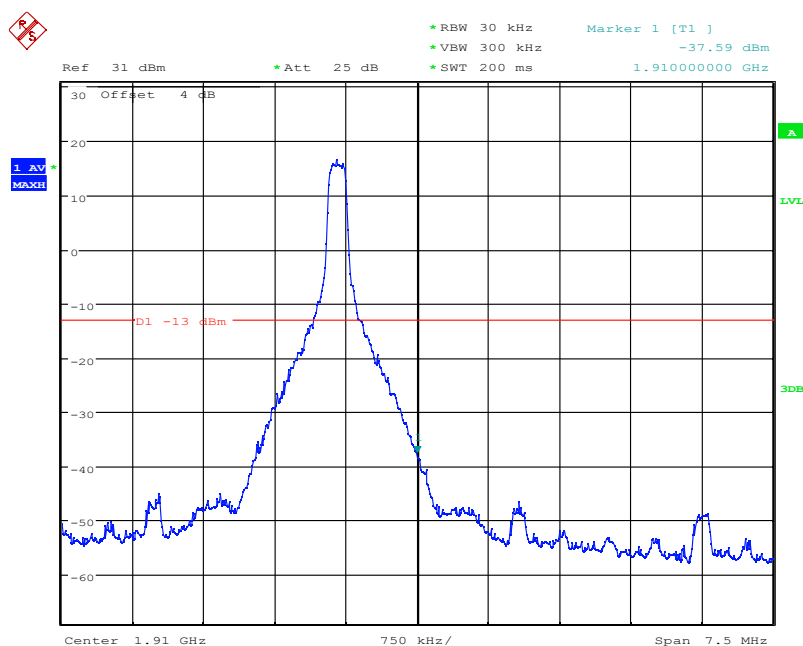
Date: 8.SEP.2021 10:53:45

LTE Band2, 15MHz bandwidth, 16QAM,(27,0) Mode , Below 1850MHz

Chongqing Academy of Information and Communication Technology

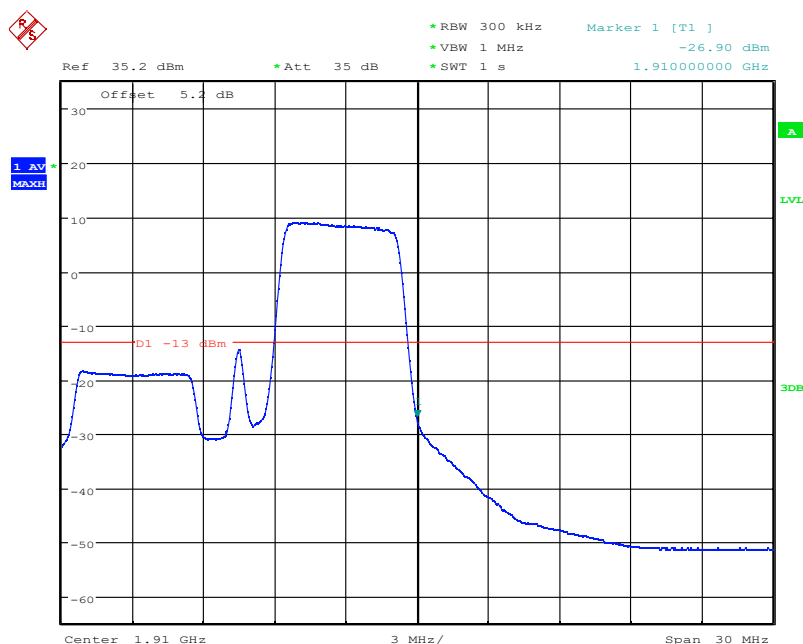
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:00:43

LTE Band2, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1910MHz



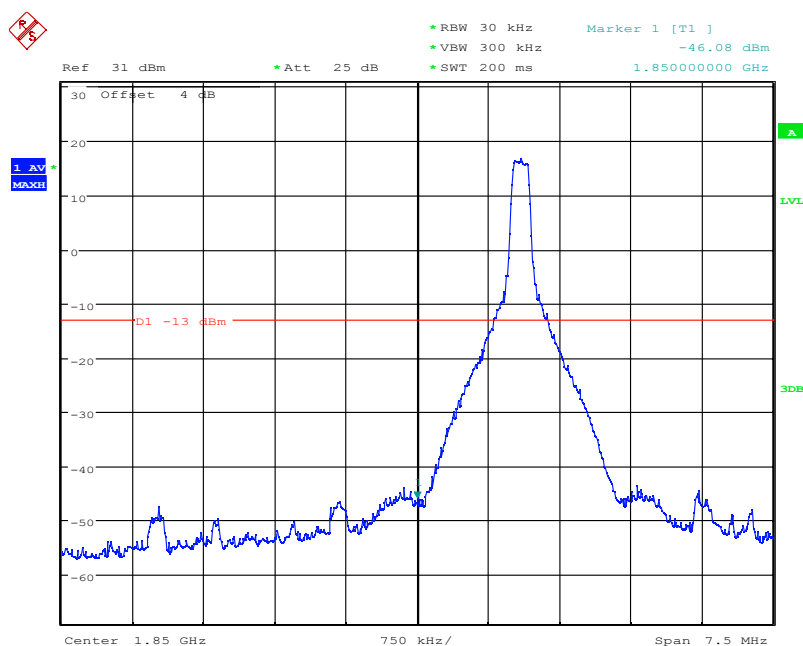
Date: 8.SEP.2021 10:53:21

LTE Band2, 15MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz

Chongqing Academy of Information and Communication Technology

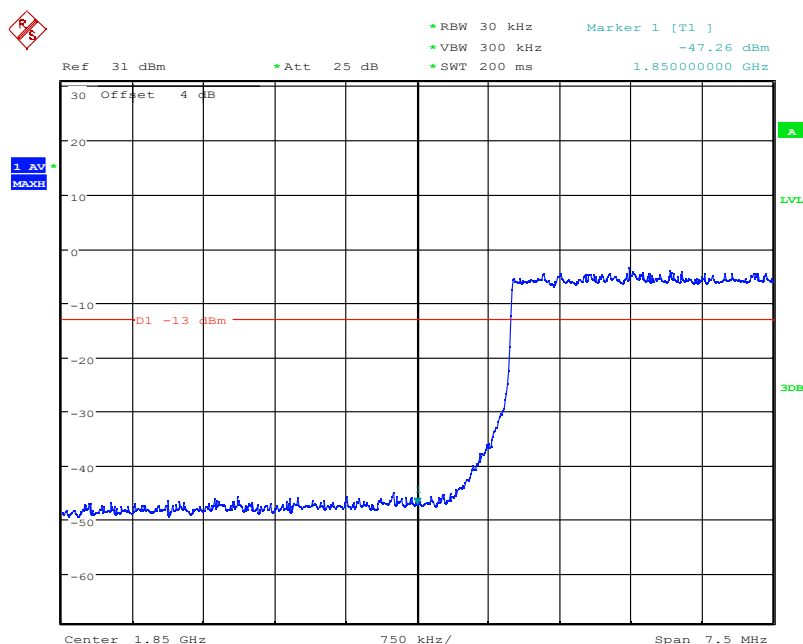
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:02:57

LTE Band2, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



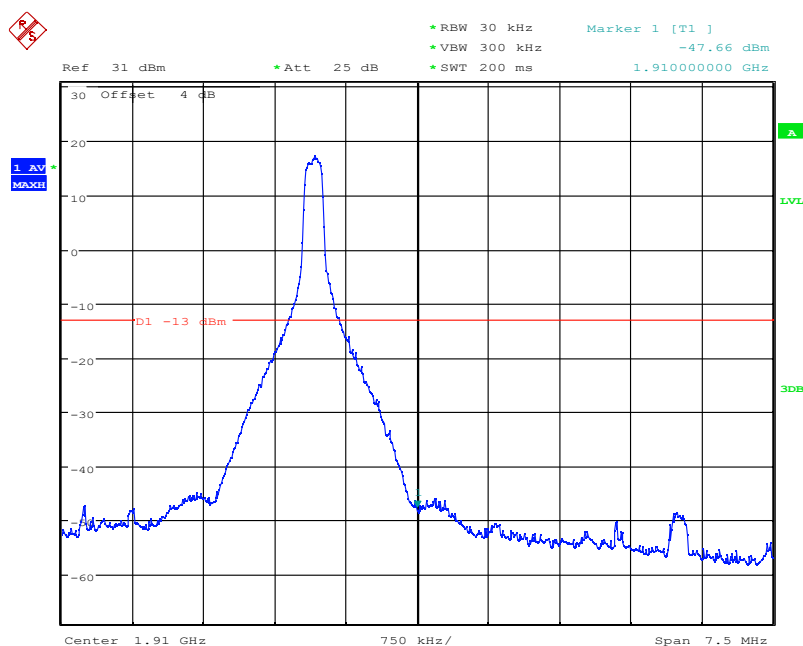
Date: 2.SEP.2021 11:03:16

LTE Band2, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1850MHz

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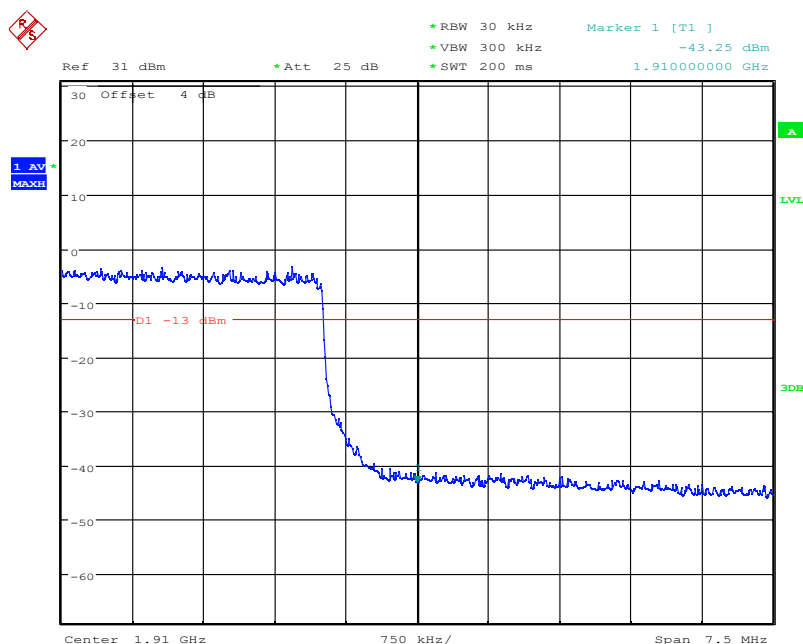
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:04:51

LTE Band2, 20MHz bandwidth, QPSK,(1,100) Mode, Above 1910MHz



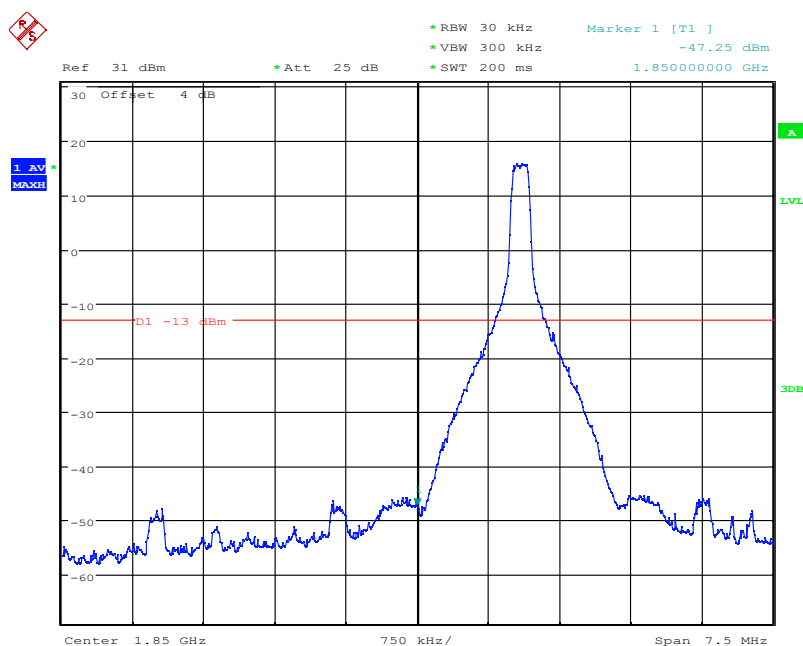
Date: 2.SEP.2021 11:05:03

LTE Band2, 20MHz bandwidth, QPSK,(100,0) Mode, Above 1910MHz

Chongqing Academy of Information and Communication Technology

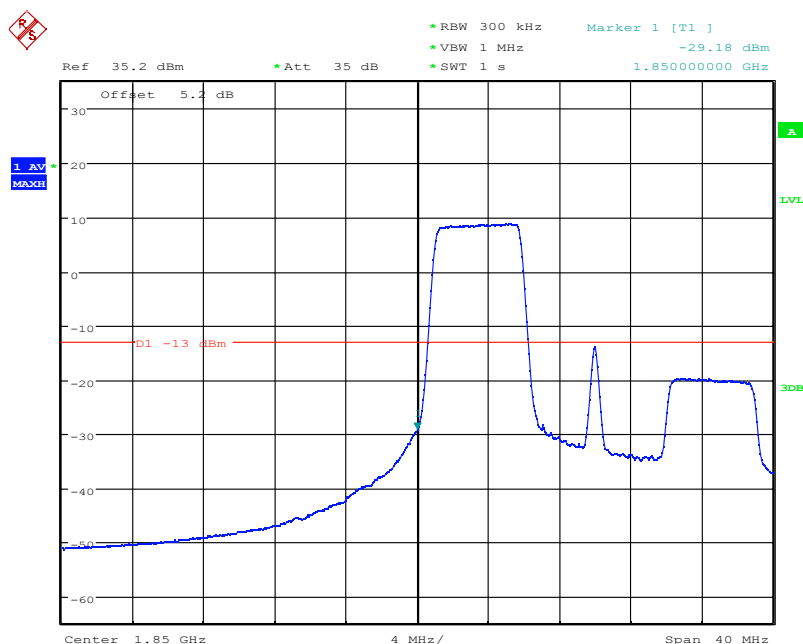
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:03:44

LTE Band2, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



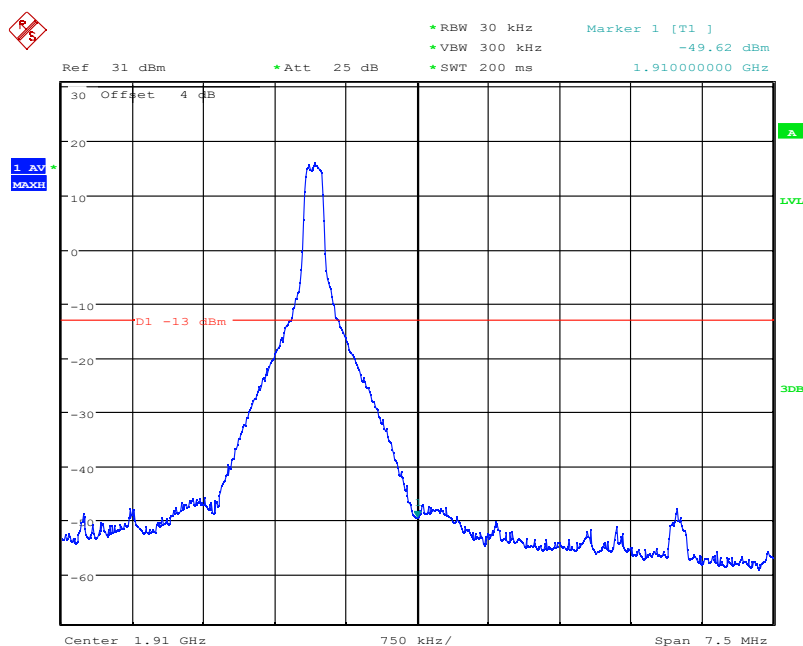
Date: 8.SEP.2021 10:54:42

LTE Band2, 20MHz bandwidth, 16QAM,(27,0) Mode , Below 1850MHz

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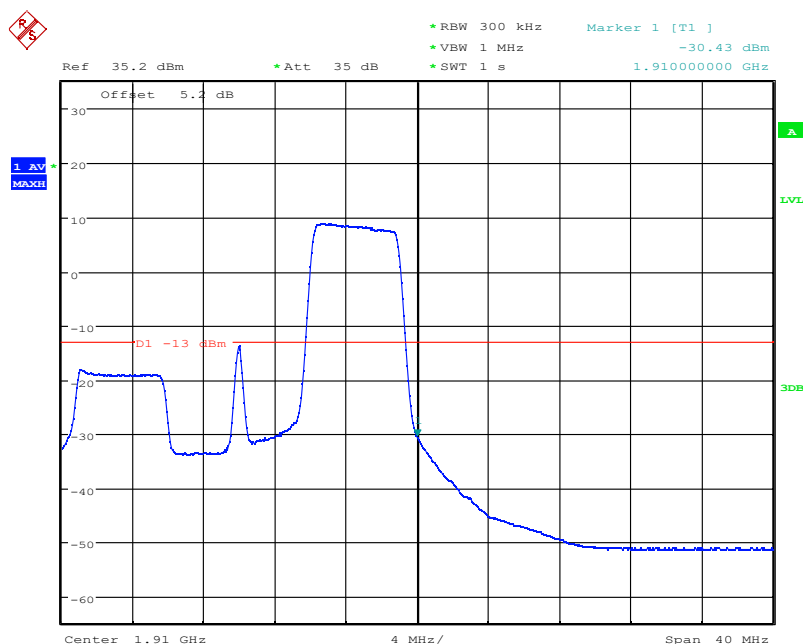
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 2.SEP.2021 11:04:25

LTE Band2, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1910MHz



Date: 8.SEP.2021 10:55:19

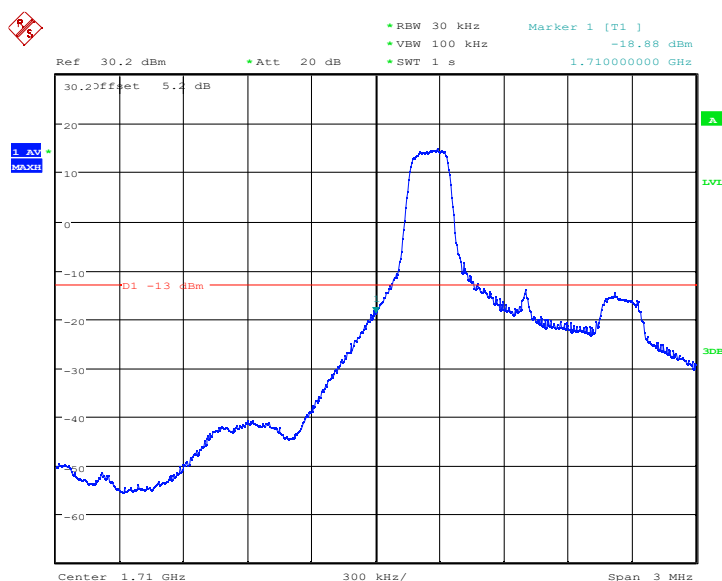
LTE Band2, 20MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz

Chongqing Academy of Information and Communication Technology

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

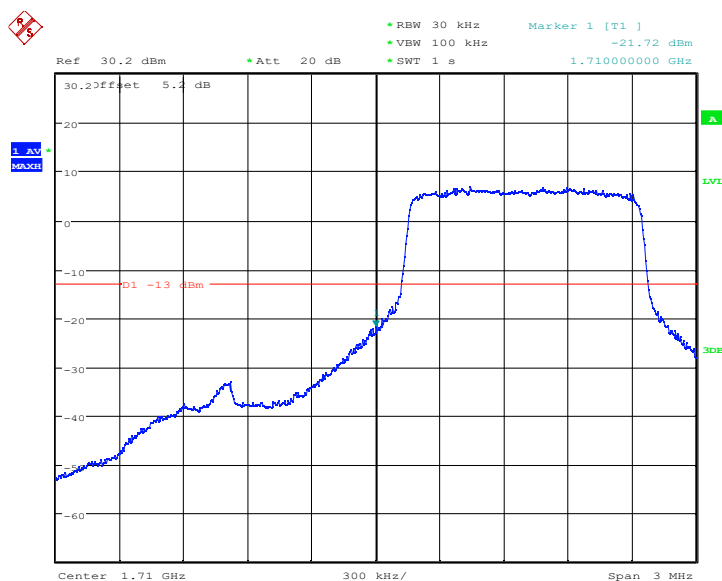
Report No.: I21W00031-WWAN_Rev3

5.5.4 LTE B4 Band Edge Results



Date: 6.SEP.2021 13:36:20

LTE Band4, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



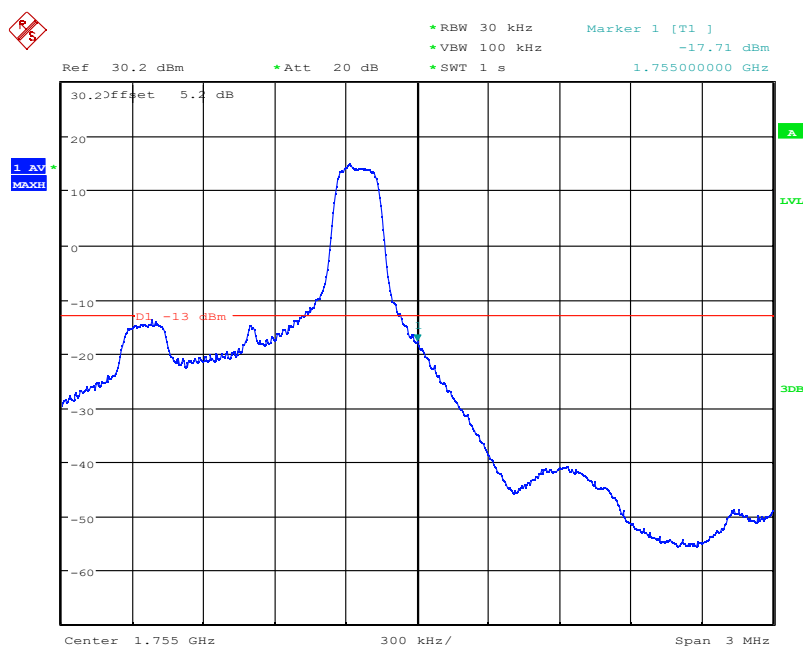
Date: 6.SEP.2021 13:36:39

LTE Band4, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

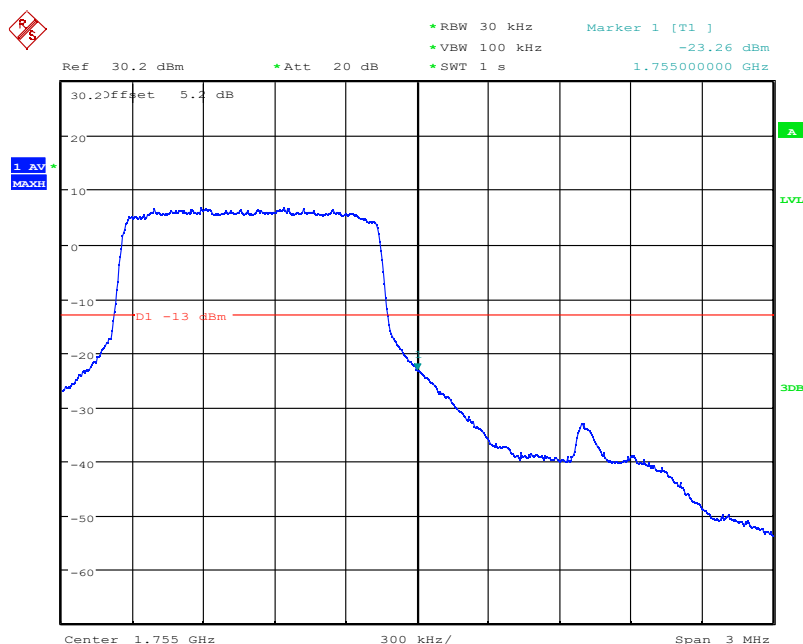
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:35:47

LTE Band4, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1755MHz



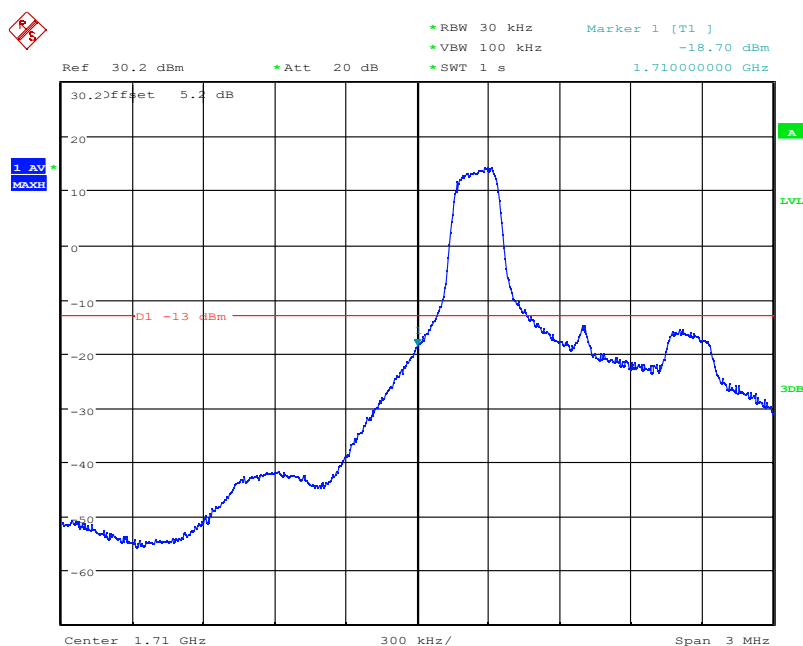
Date: 6.SEP.2021 13:35:31

LTE Band4, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1755MHz

Chongqing Academy of Information and Communication Technology

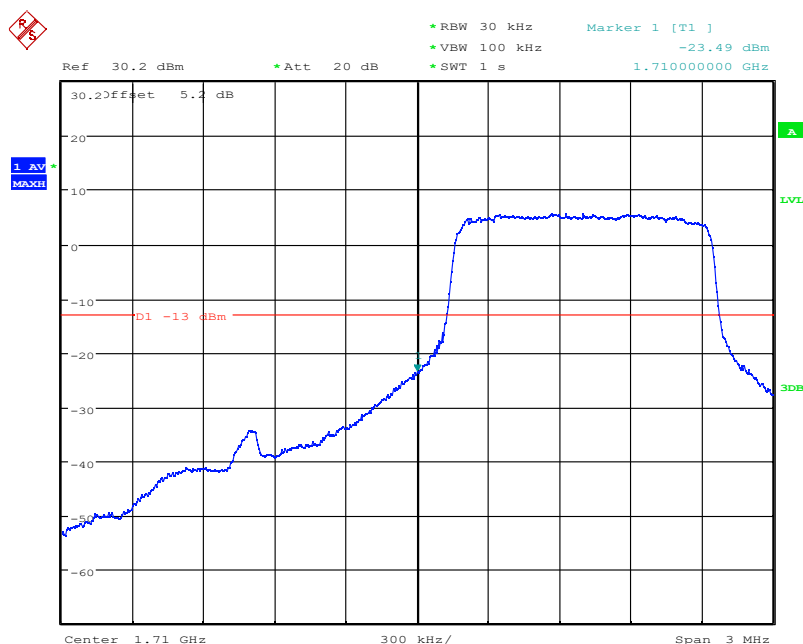
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:37:16

LTE Band4, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



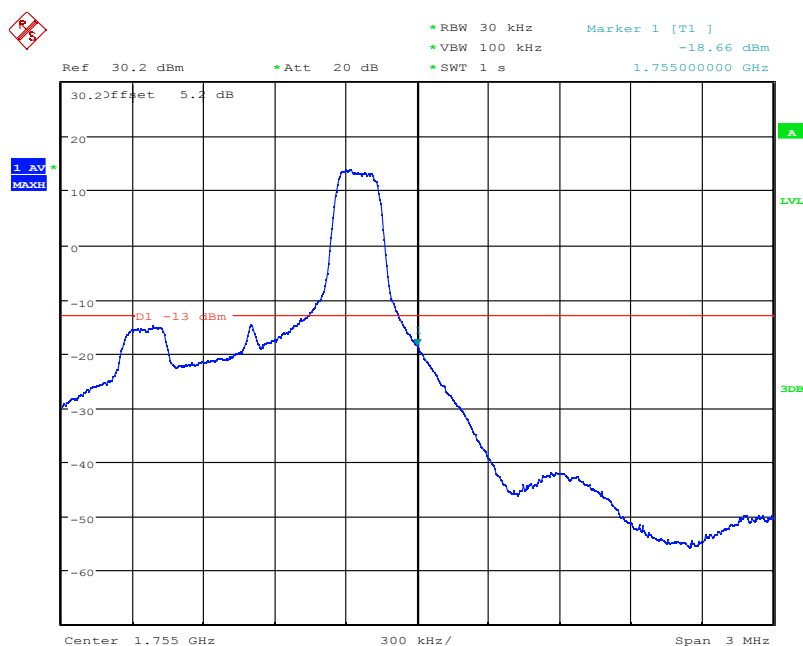
Date: 6.SEP.2021 13:36:58

LTE Band4, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

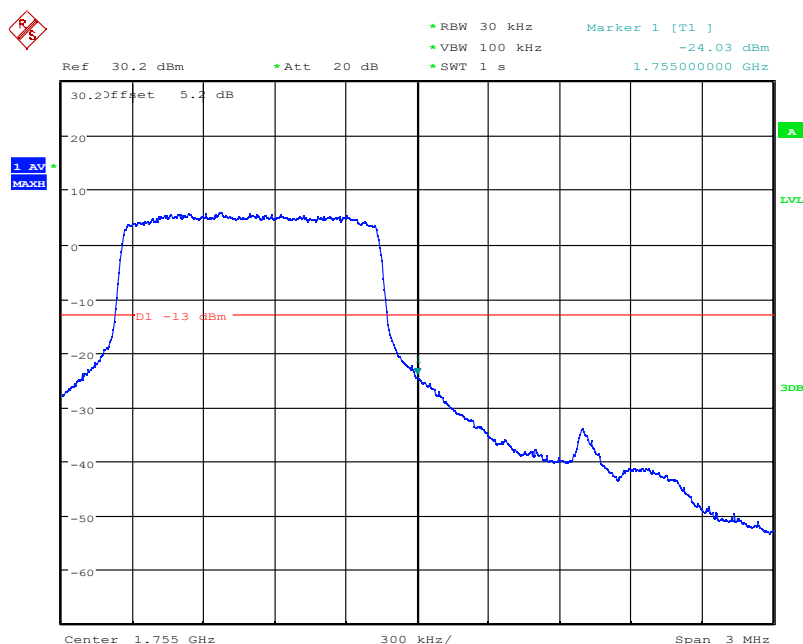
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:34:58

LTE Band4, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 1755MHz



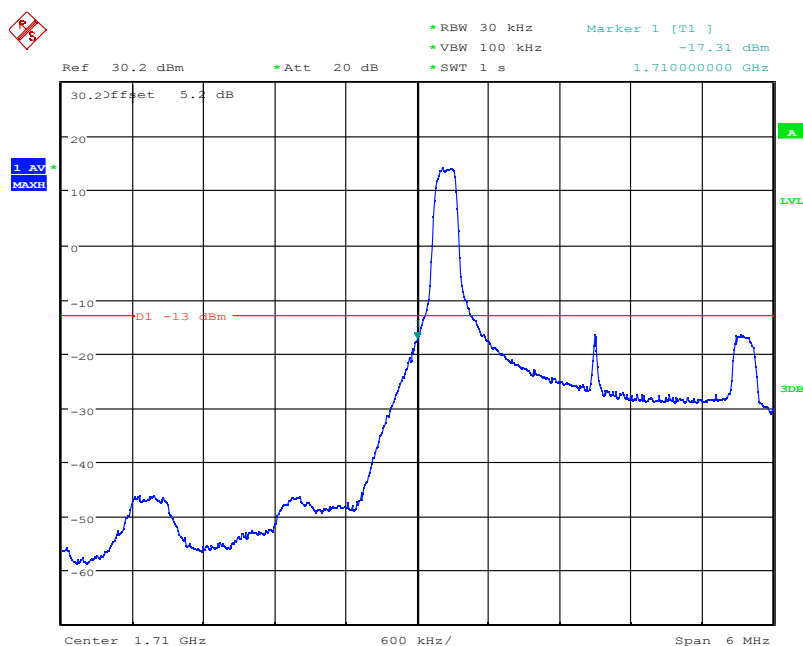
Date: 6.SEP.2021 13:35:13

LTE Band4, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 1755MHz

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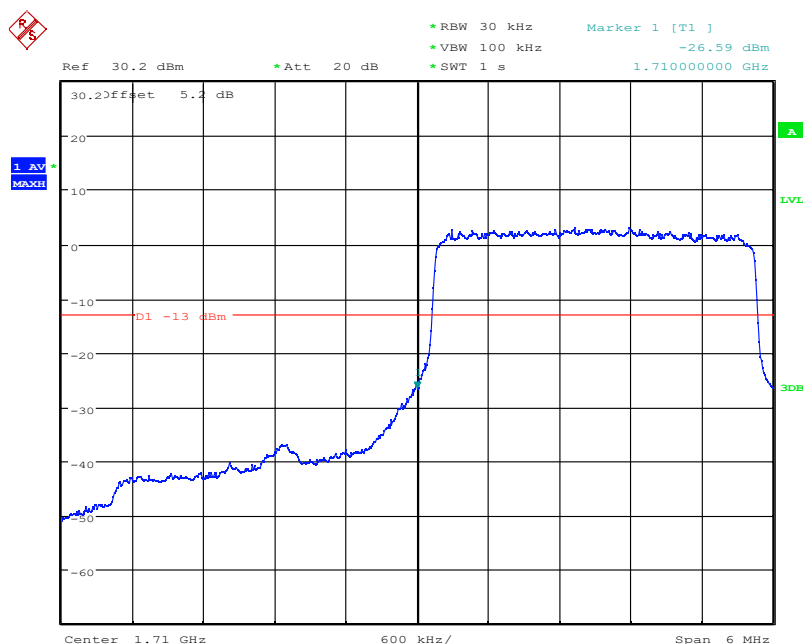
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:38:50

LTE Band4, 3MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



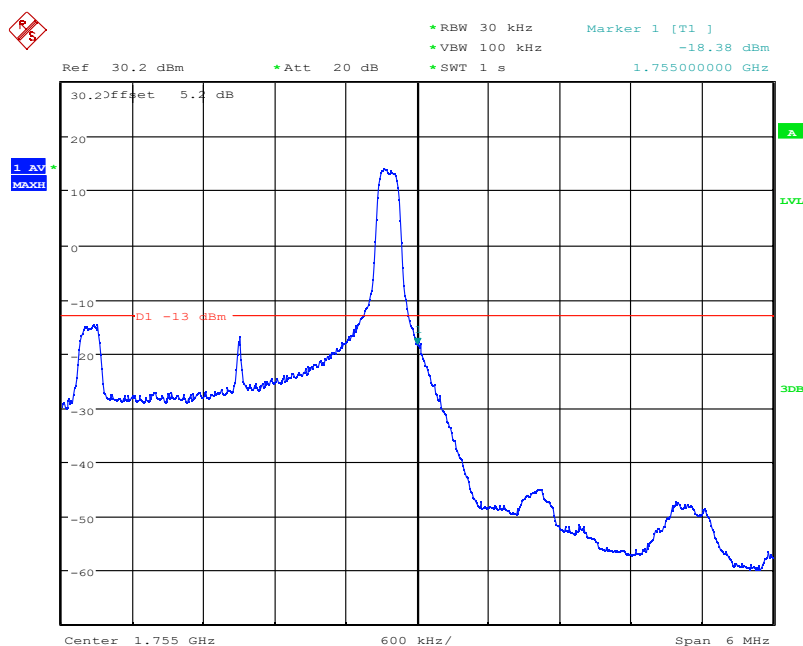
Date: 6.SEP.2021 13:39:04

LTE Band4, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

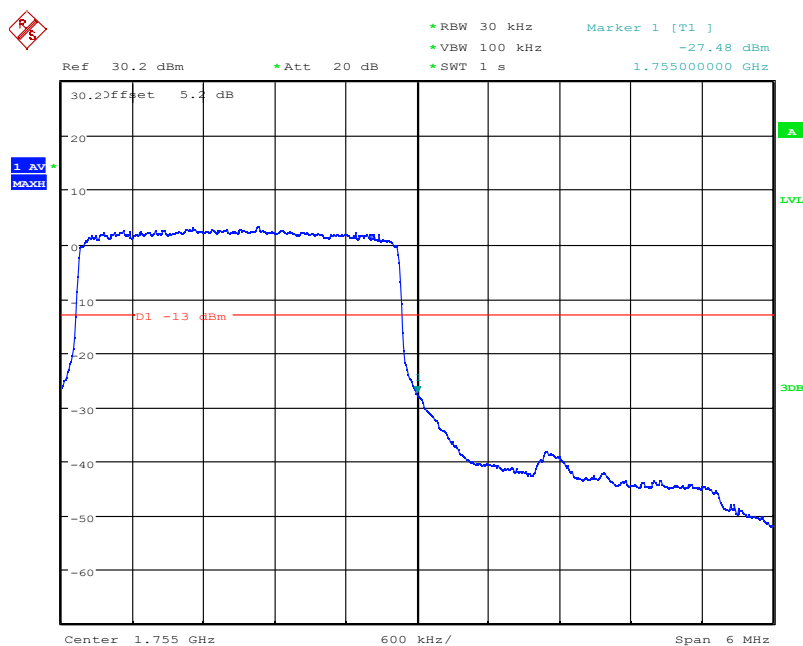
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:39:52

LTE Band4, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1755MHz



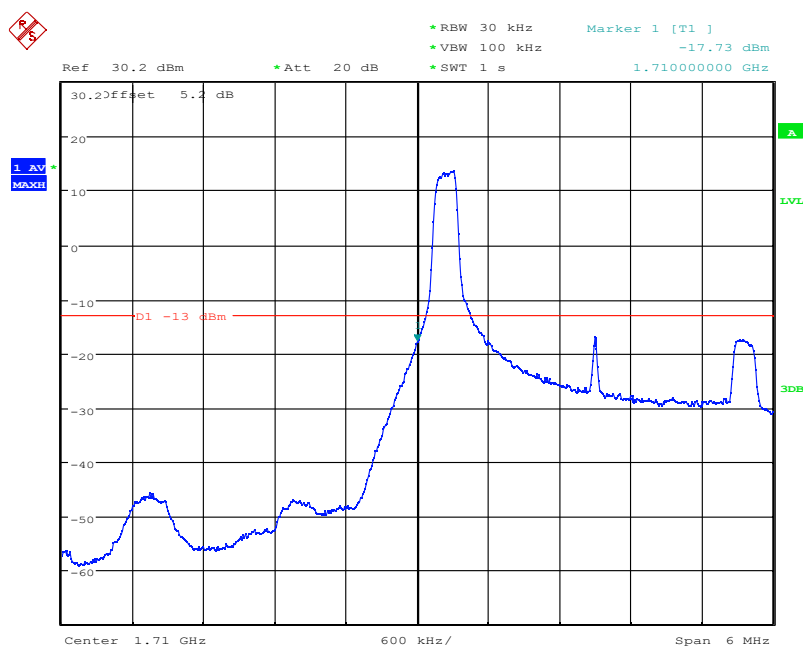
Date: 6.SEP.2021 13:39:35

LTE Band4, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1755MHz

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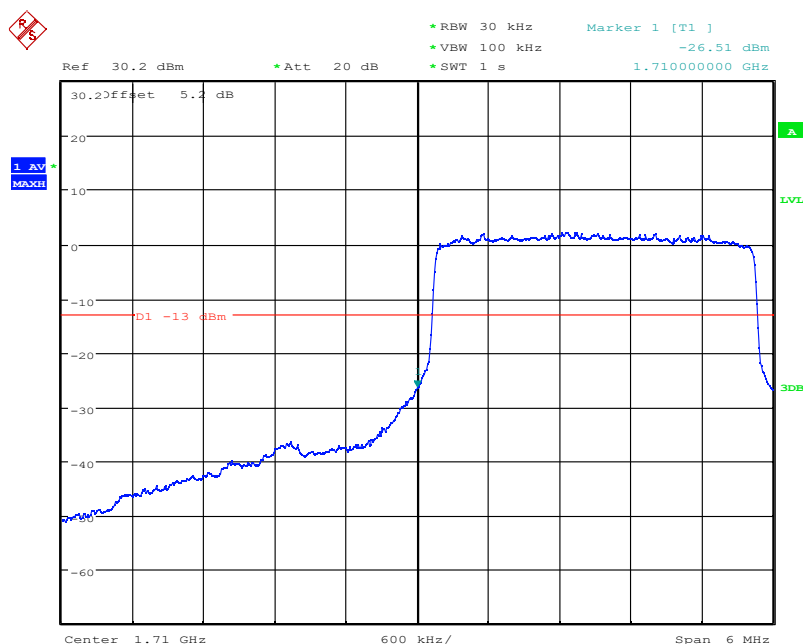
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:38:35

LTE Band4, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



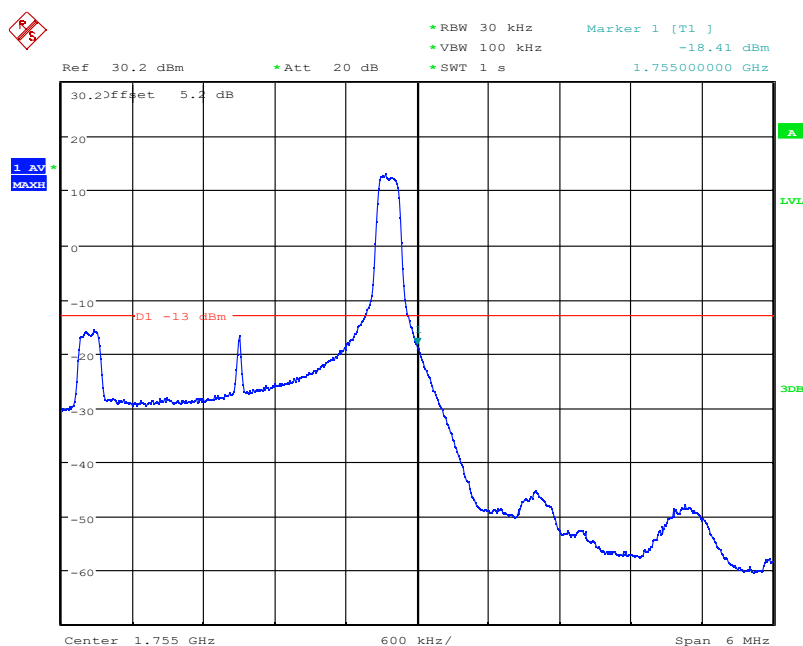
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LTE Band4, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

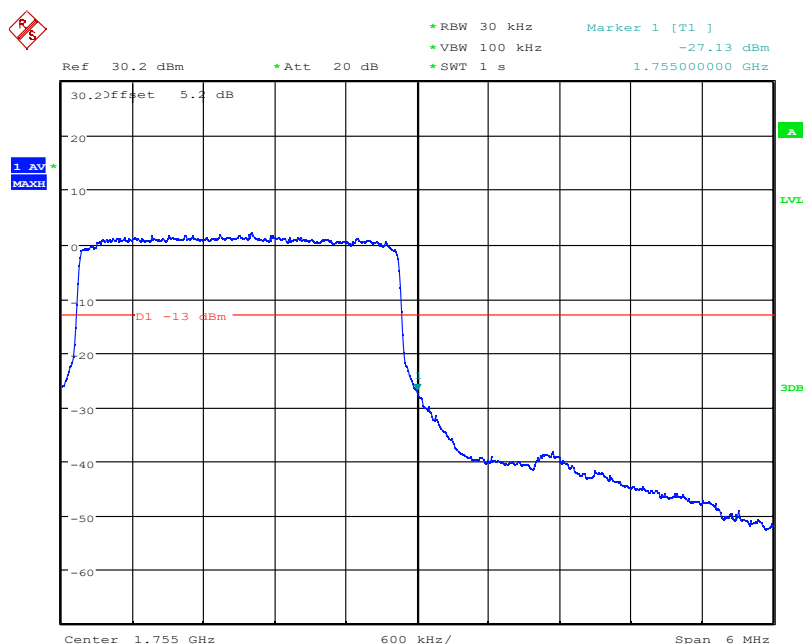
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:40:09

LTE Band4, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 1755MHz



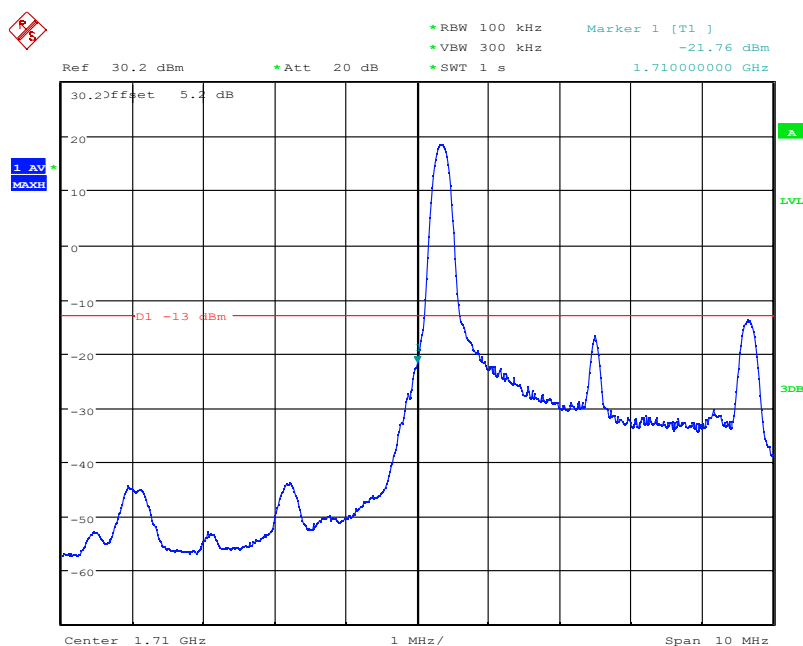
Date: 6.SEP.2021 13:40:28

LTE Band4, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 1755MHz

Chongqing Academy of Information and Communication Technology

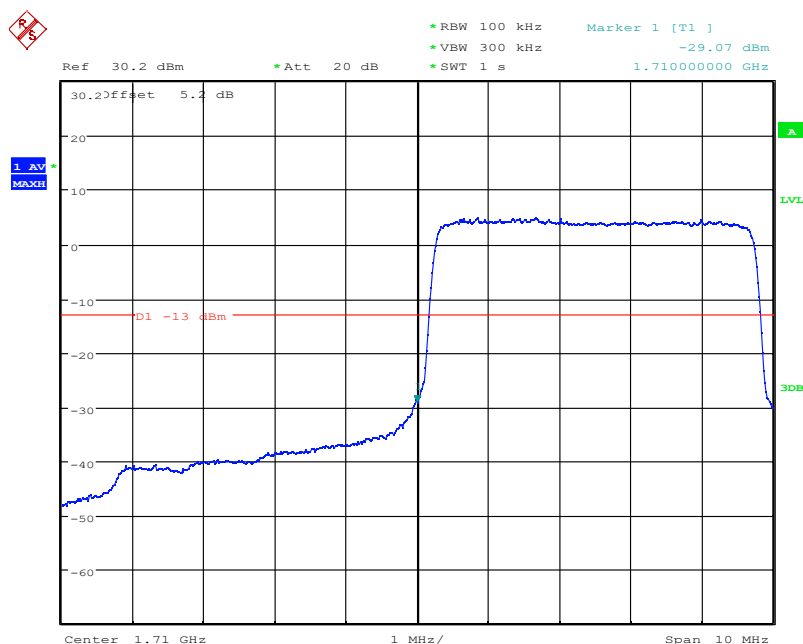
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:44:21

LTE Band4, 5MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



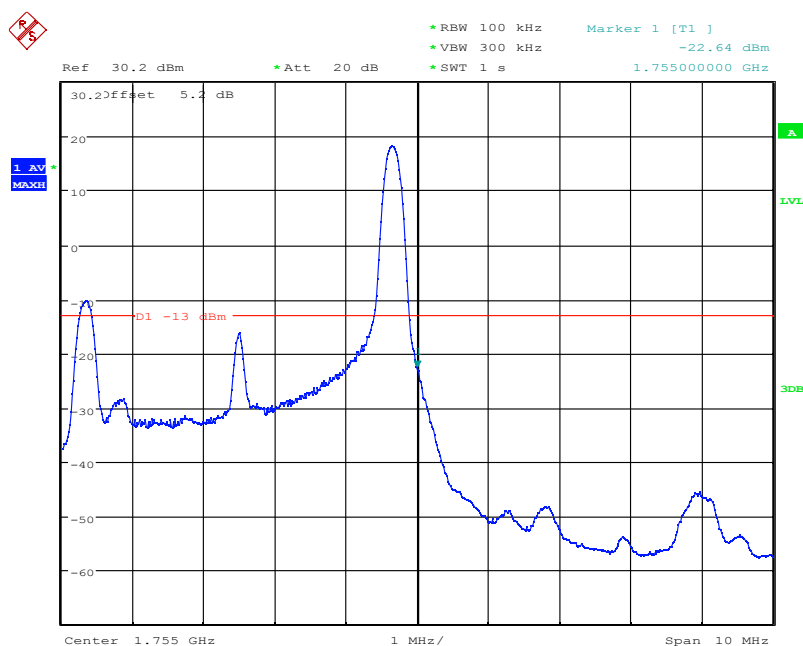
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LTE Band4, 5MHz bandwidth, QPSK,(25,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

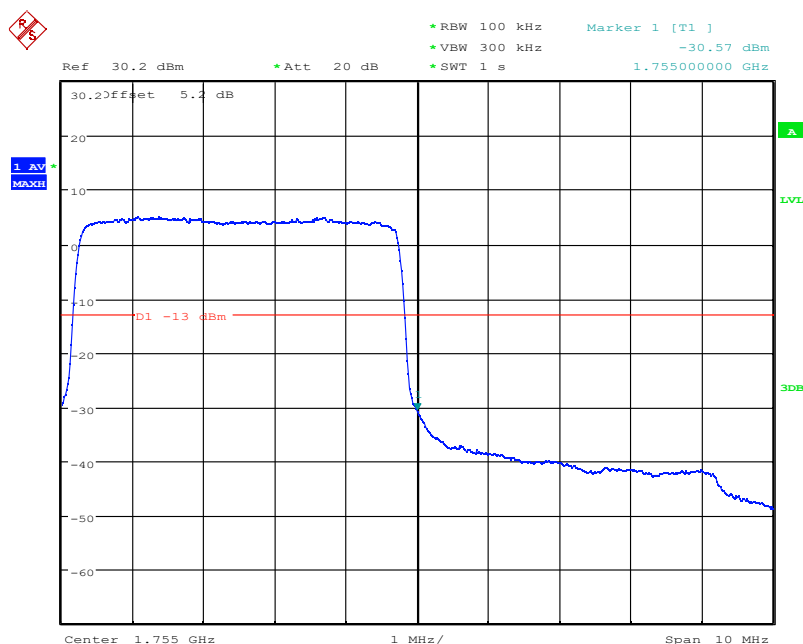
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:41:47

LTE Band4, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1755MHz



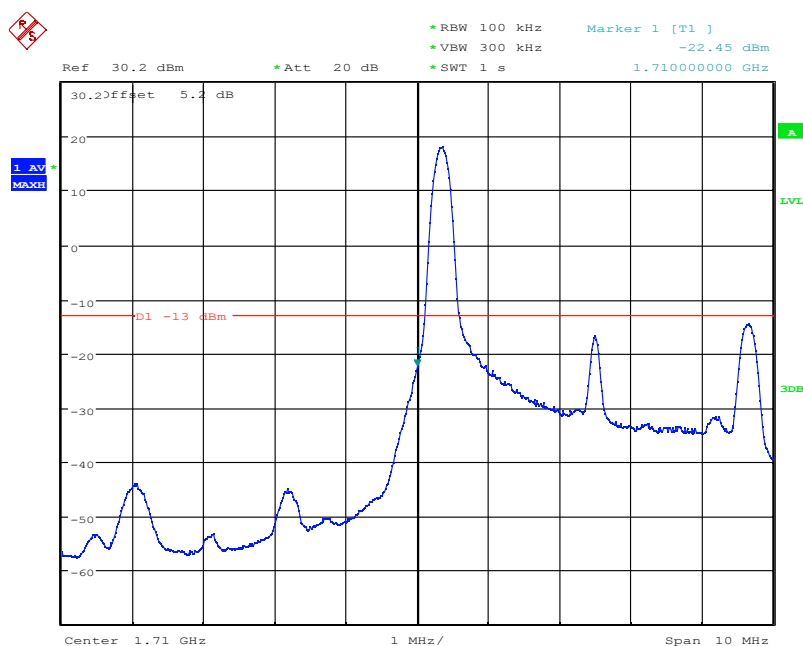
Date: 6.SEP.2021 13:42:03

LTE Band4, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1755MHz

Chongqing Academy of Information and Communication Technology

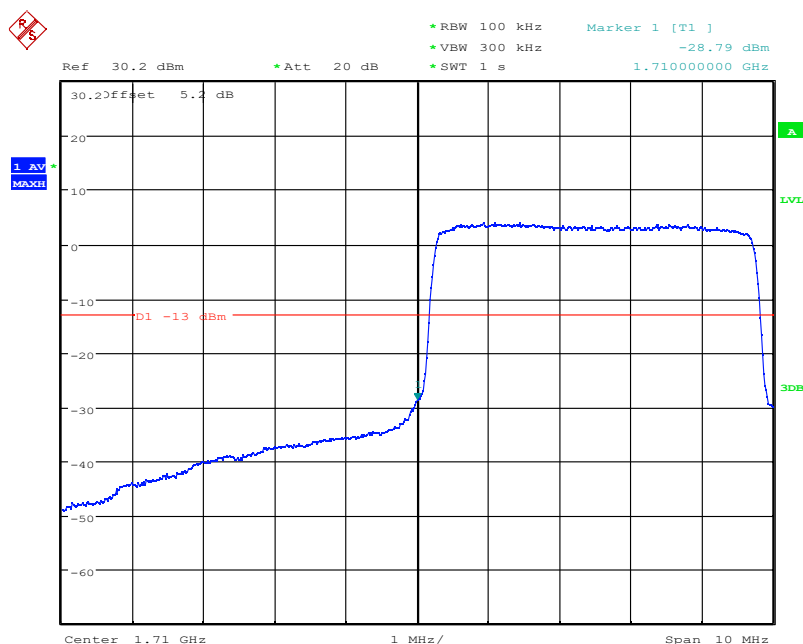
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:43:39

LTE Band4, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



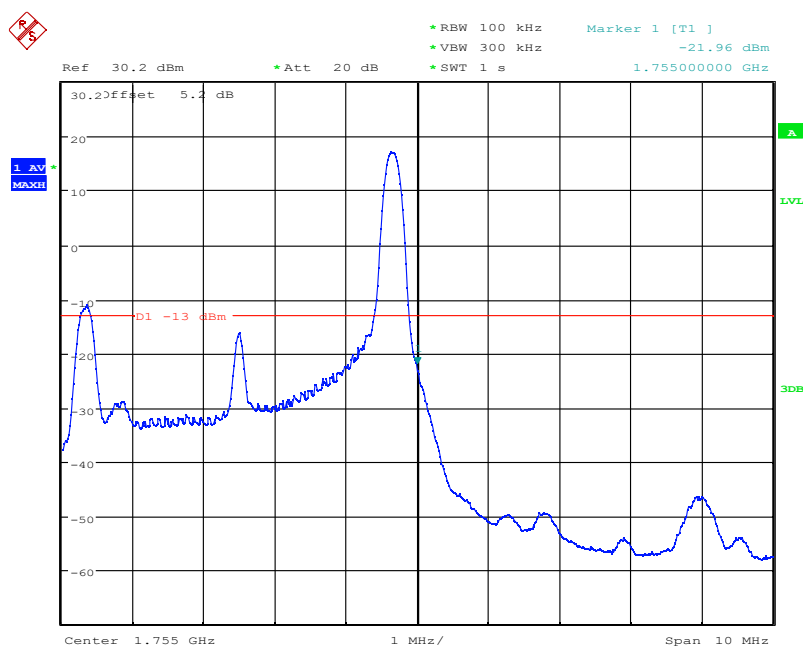
Date: 6.SEP.2021 13:43:52

LTE Band4, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 1710MHz

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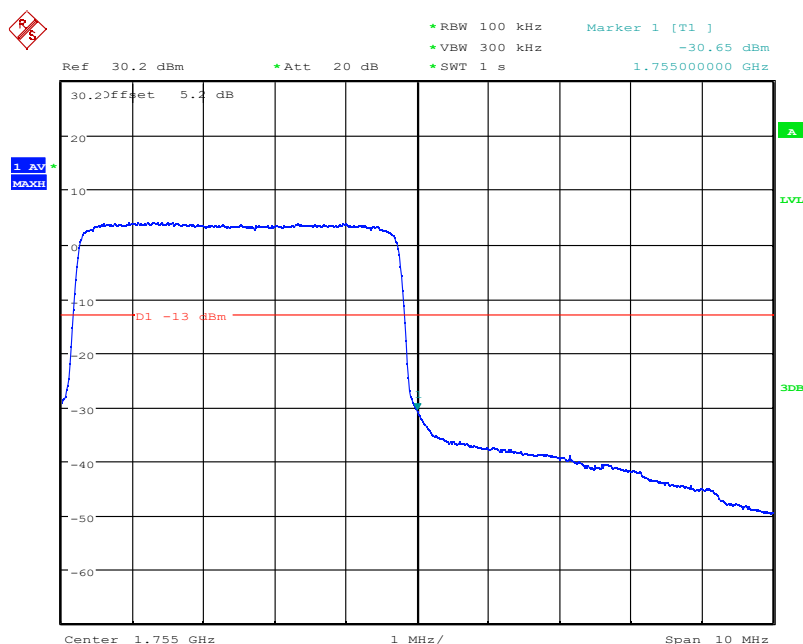
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 13:42:52

LTE Band4, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1755MHz



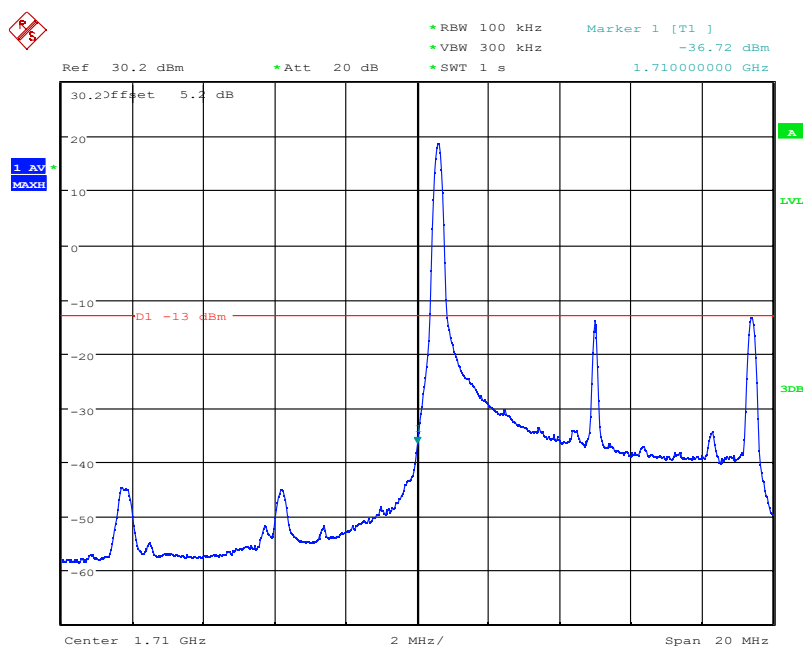
Date: 6.SEP.2021 13:42:32

LTE Band4, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 1755MHz

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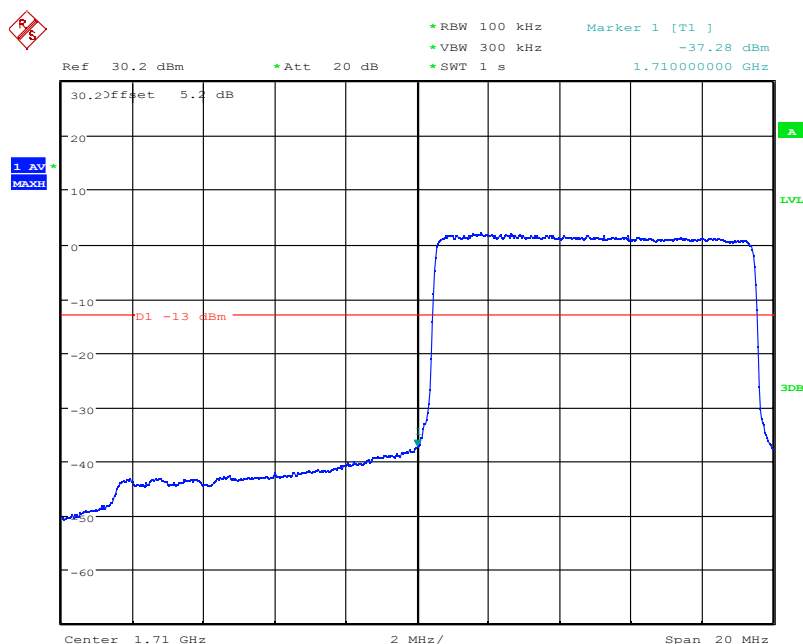
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 14:29:02

LTE Band4, 10MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



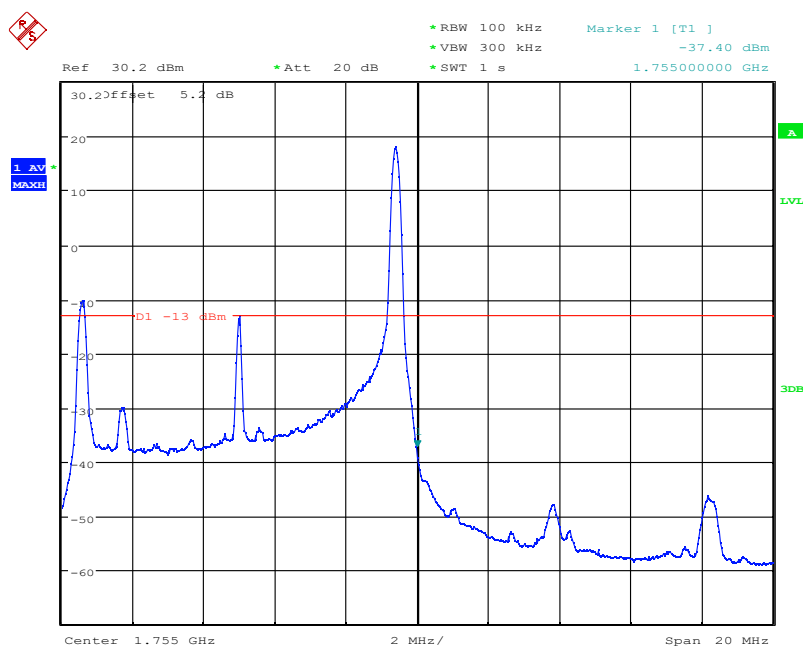
Date: 6.SEP.2021 14:28:46

LTE Band4, 10MHz bandwidth, QPSK,(50,0) Mode , Below 1710MHz

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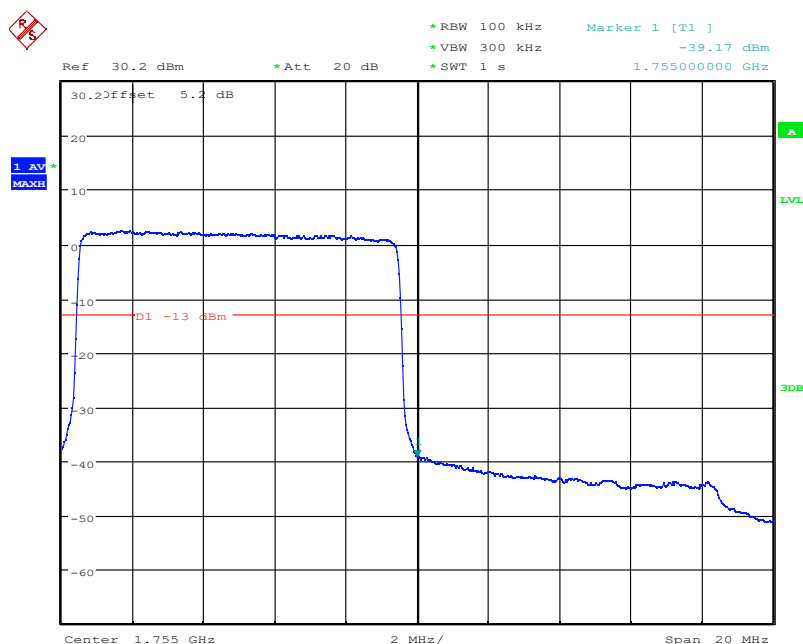
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 14:30:11

LTE Band4, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1755MHz



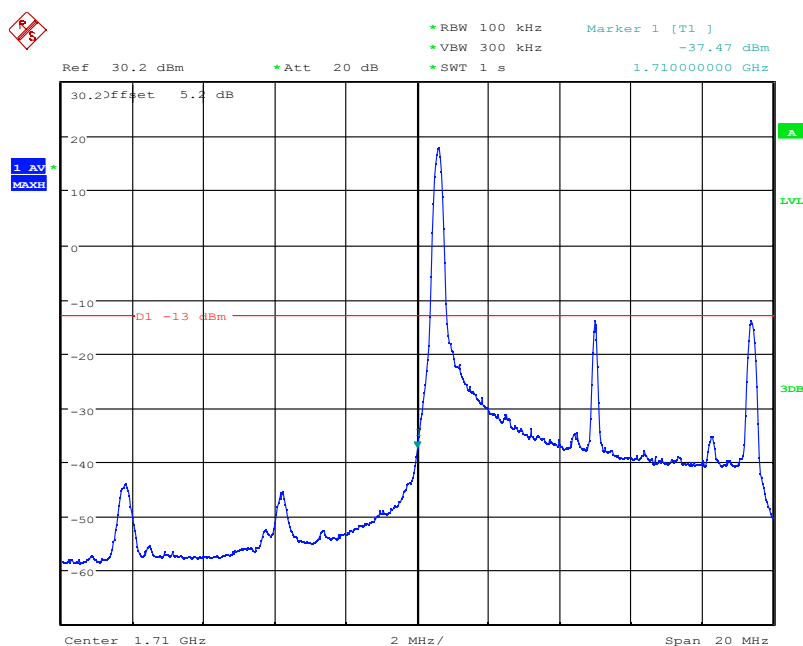
Date: 6.SEP.2021 14:30:47

LTE Band4, 10MHz bandwidth, QPSK,(50,0) Mode, Above 1755MHz

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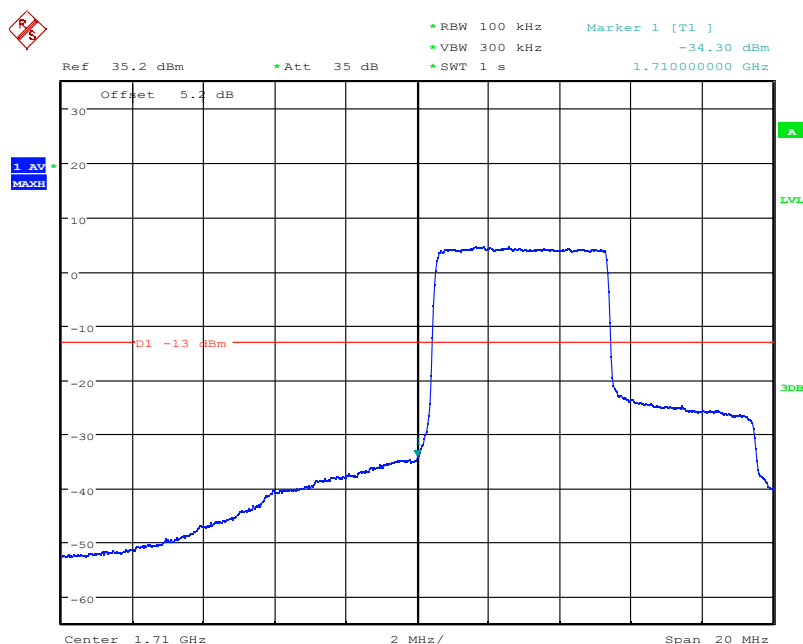
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 14:29:15

LTE Band4, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



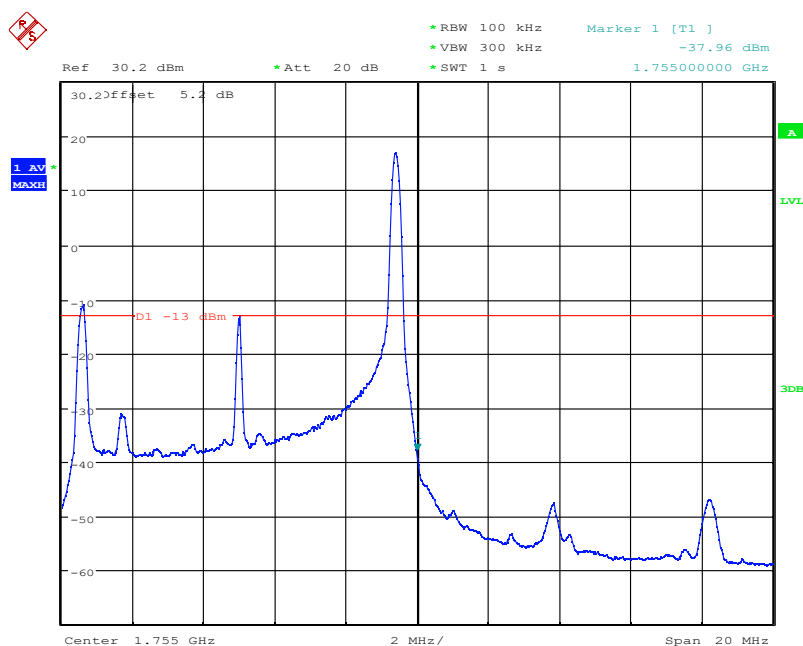
Date: 8.SEP.2021 10:56:40

LTE Band4, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

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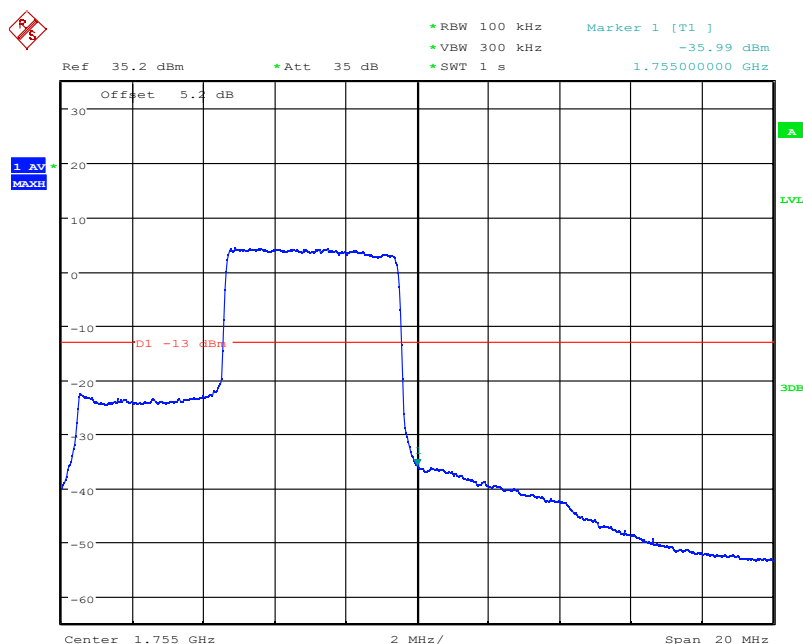
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 14:29:55

LTE Band4, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1755MHz



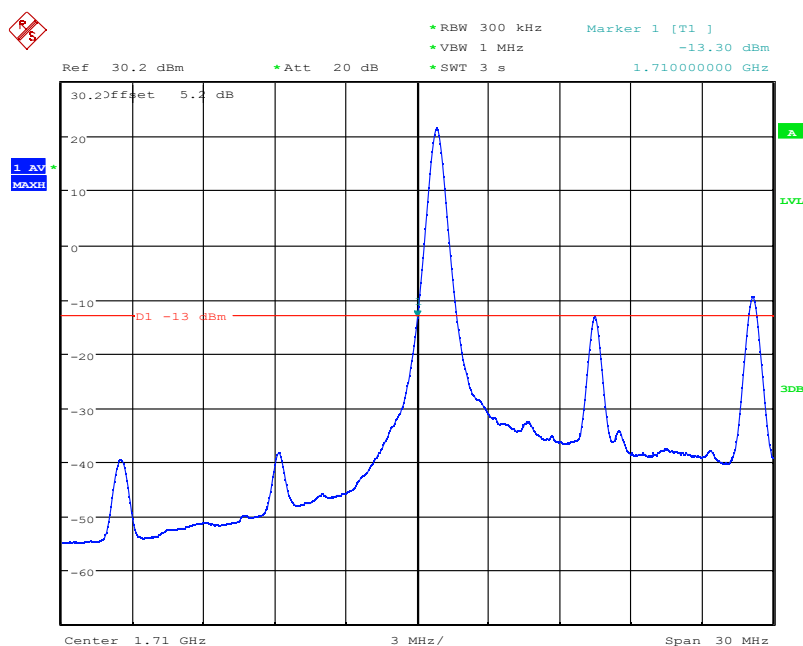
Date: 8.SEP.2021 10:57:10

LTE Band4, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz

Chongqing Academy of Information and Communication Technology

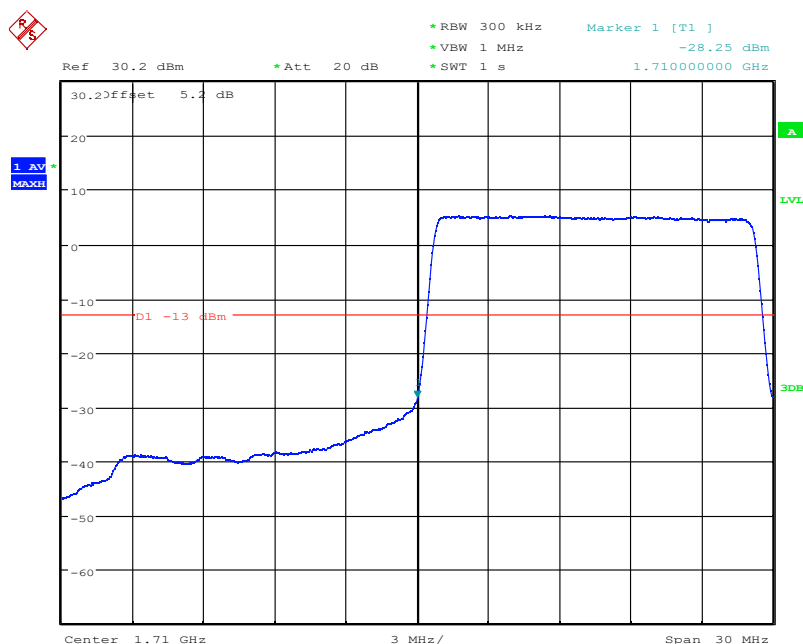
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 14:33:35

LTE Band4, 15MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



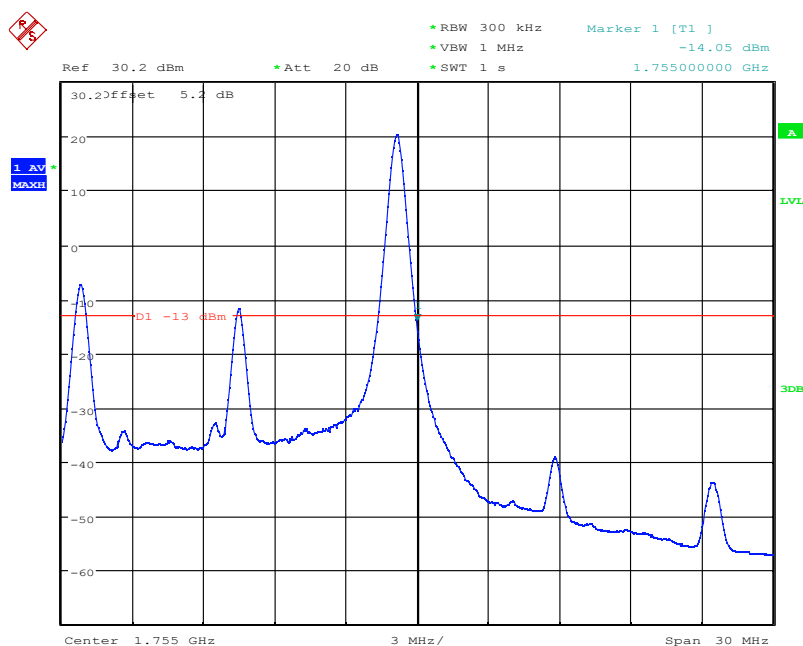
Date: 6.SEP.2021 14:33:05

LTE Band4, 15MHz bandwidth, QPSK,(75,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

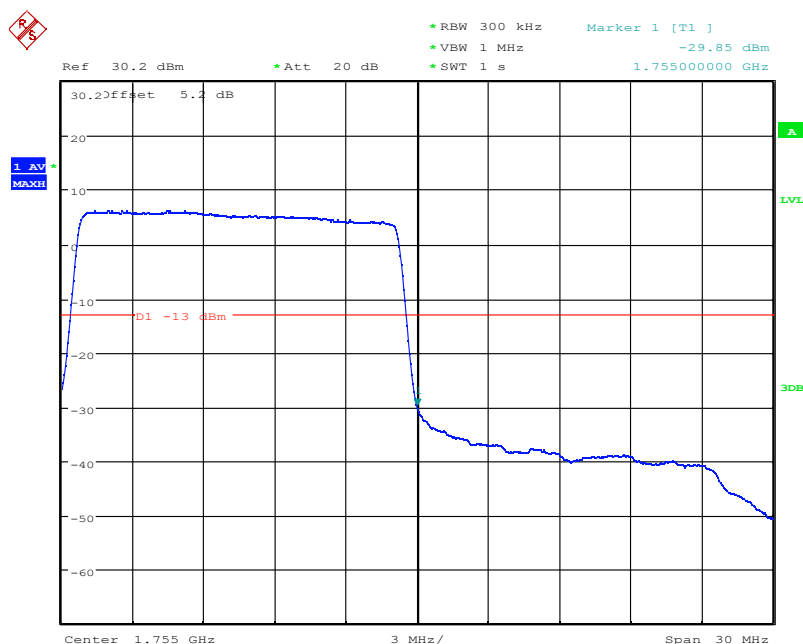
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 14:32:22

LTE Band4, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1755MHz



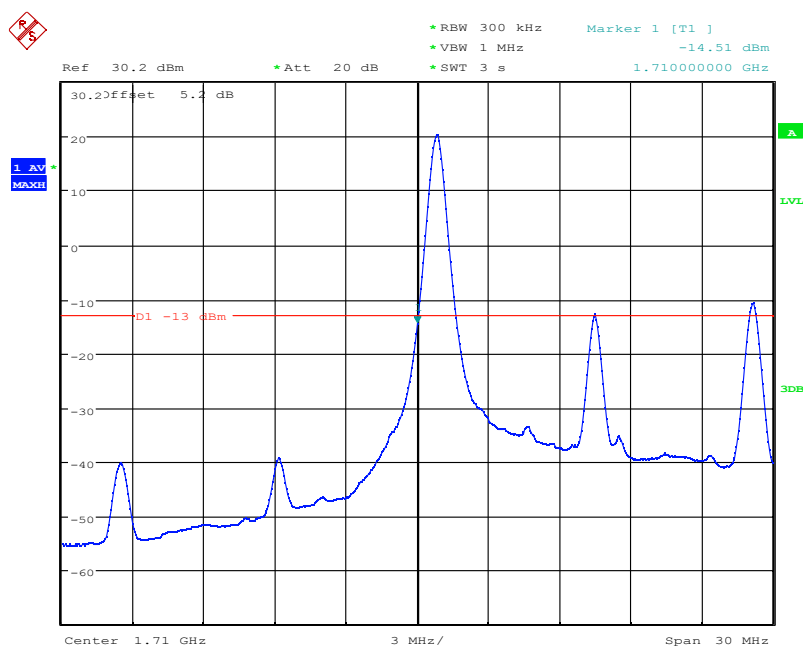
Date: 6.SEP.2021 14:32:36

LTE Band4, 15MHz bandwidth, QPSK,(75,0) Mode, Above 1755MHz

Chongqing Academy of Information and Communication Technology

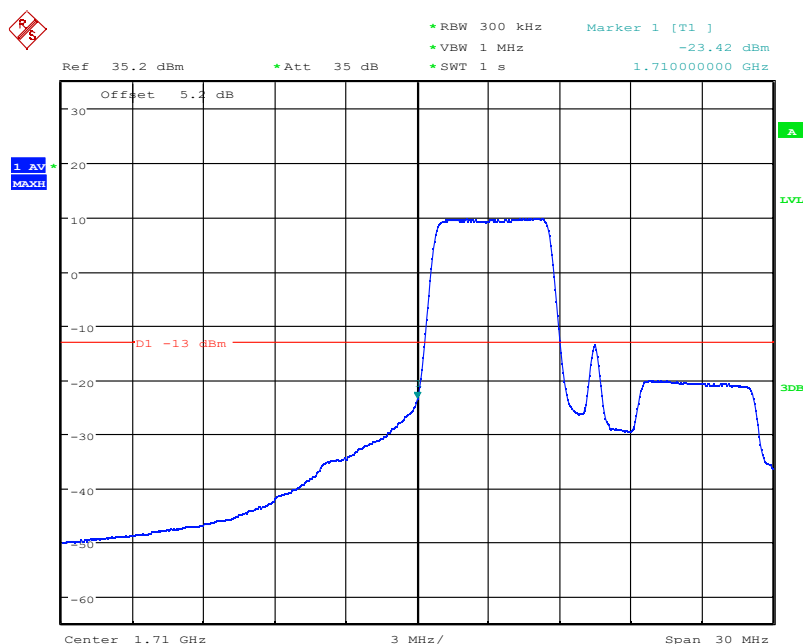
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 14:33:55

LTE Band4, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



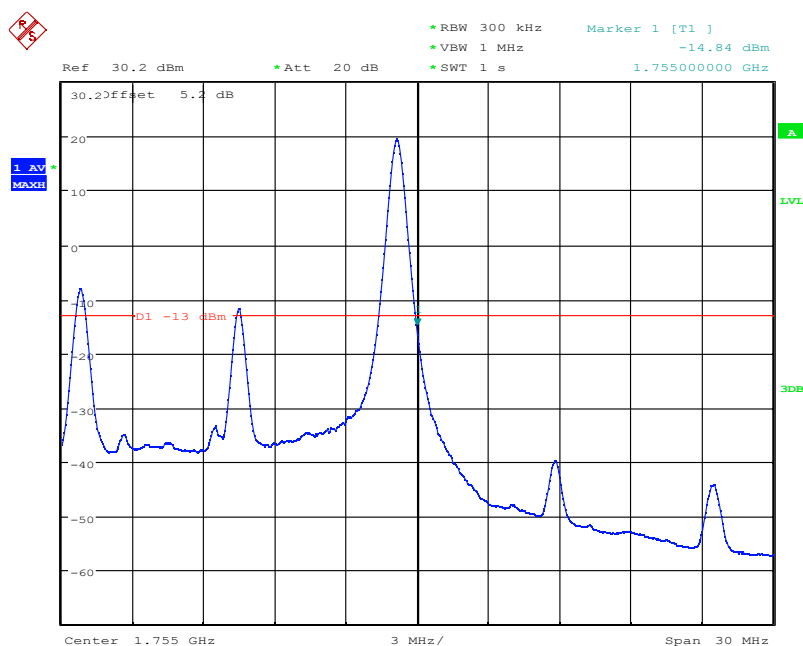
Date: 8.SEP.2021 10:58:38

LTE Band4, 15MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

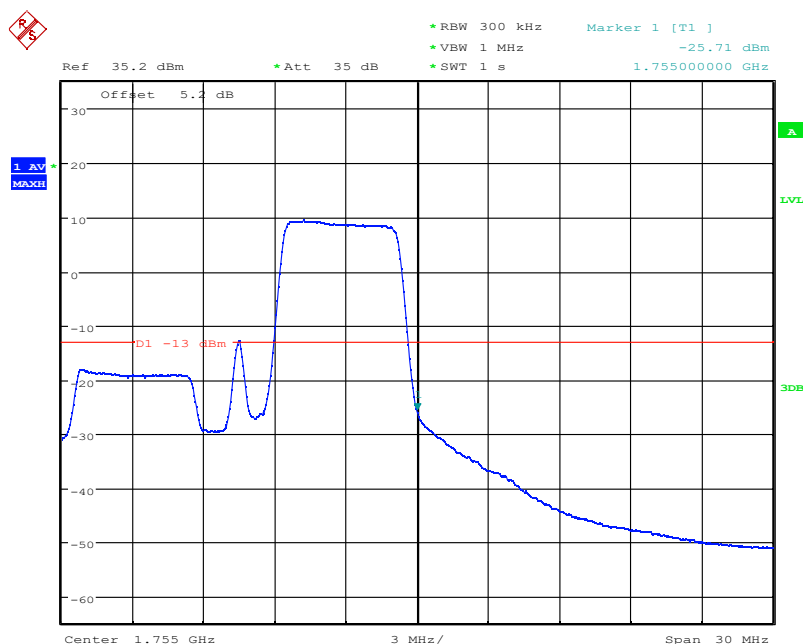
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 14:31:47

LTE Band4, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1755MHz



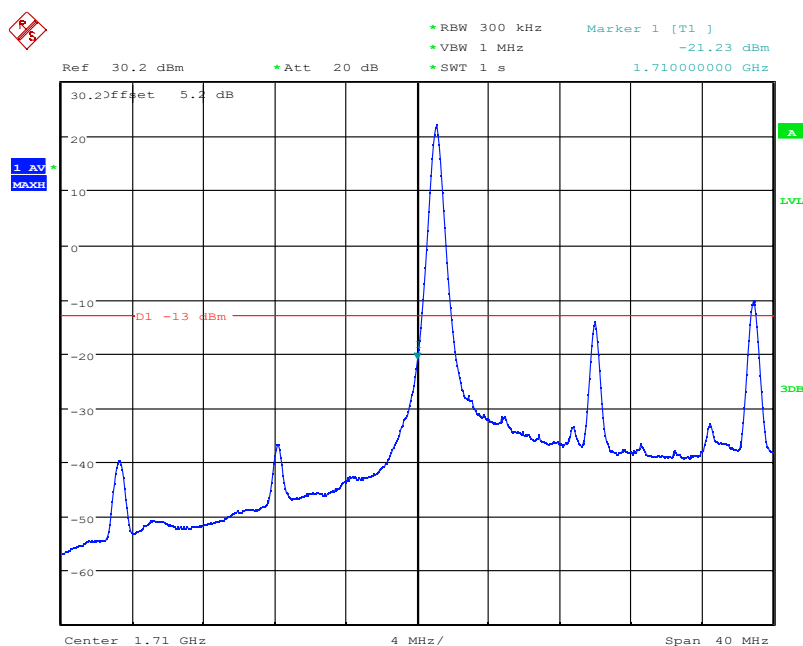
Date: 8.SEP.2021 10:57:54

LTE Band4, 15MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz

Chongqing Academy of Information and Communication Technology

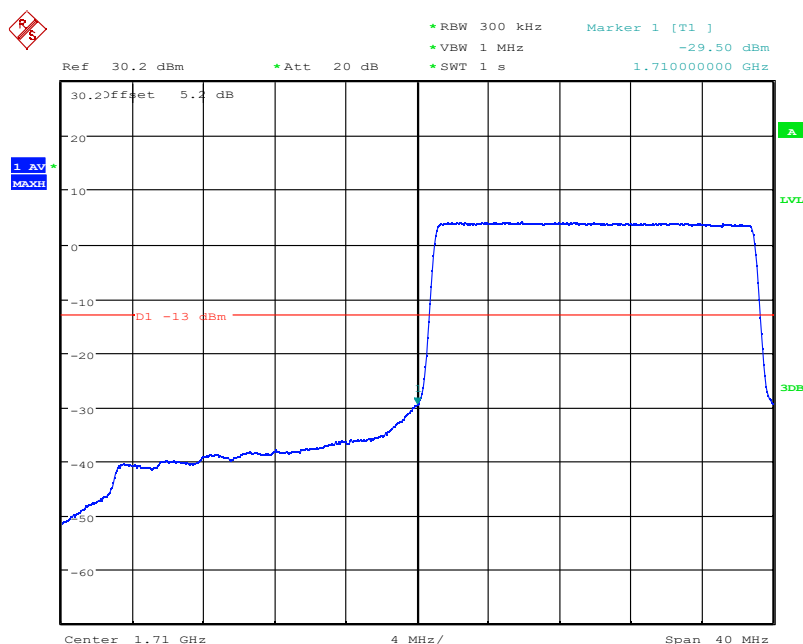
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:40:40

LTE Band4, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



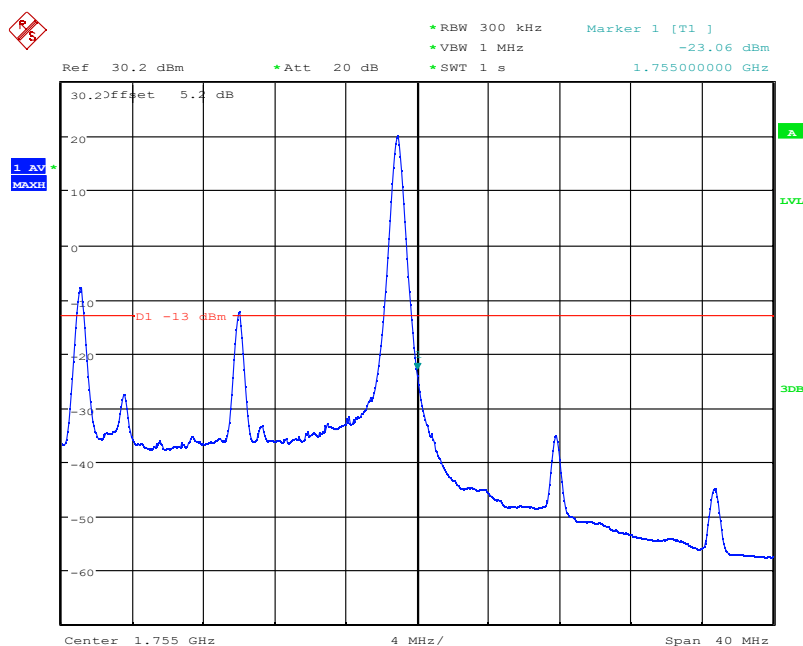
Date: 6.SEP.2021 15:40:53

LTE Band4, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

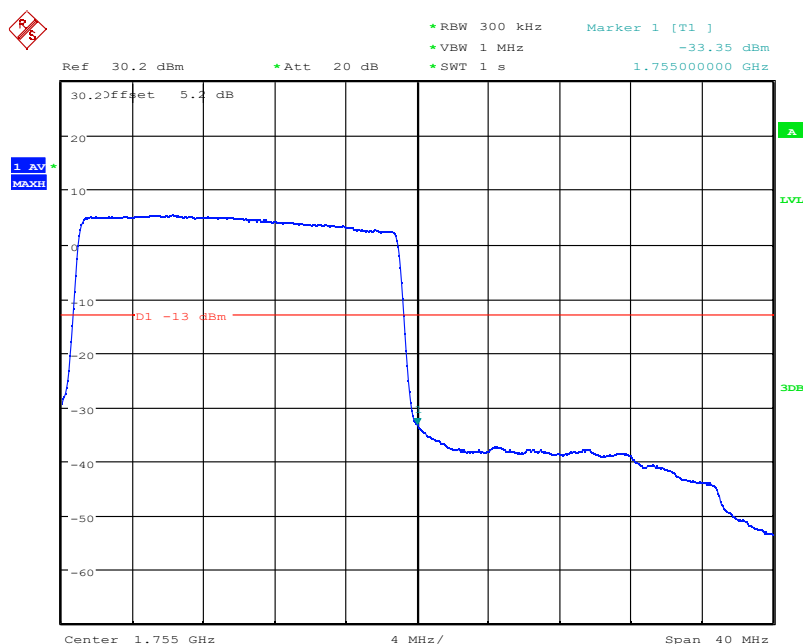
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:41:37

LTE Band4, 20MHz bandwidth, QPSK,(1,100) Mode, Above 1755MHz



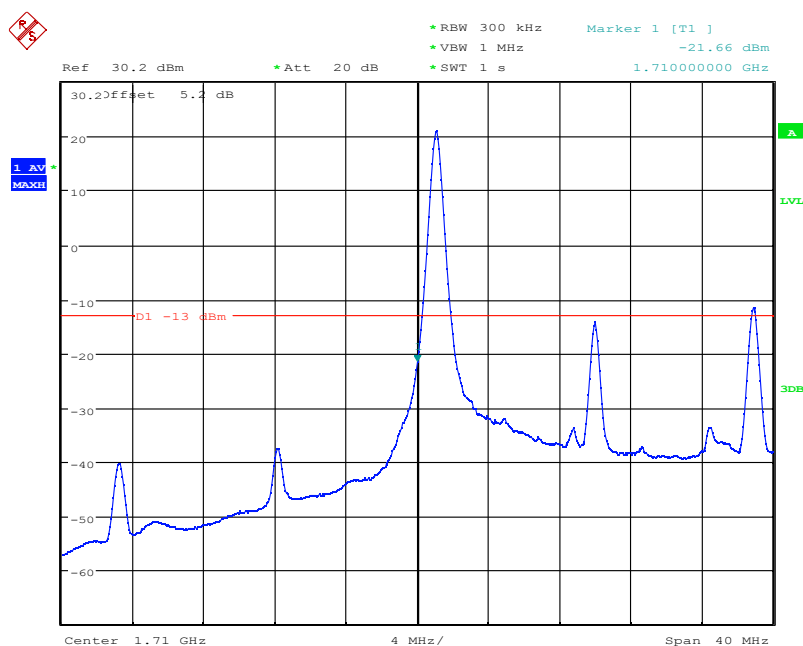
Date: 6.SEP.2021 15:41:21

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Chongqing Academy of Information and Communication Technology

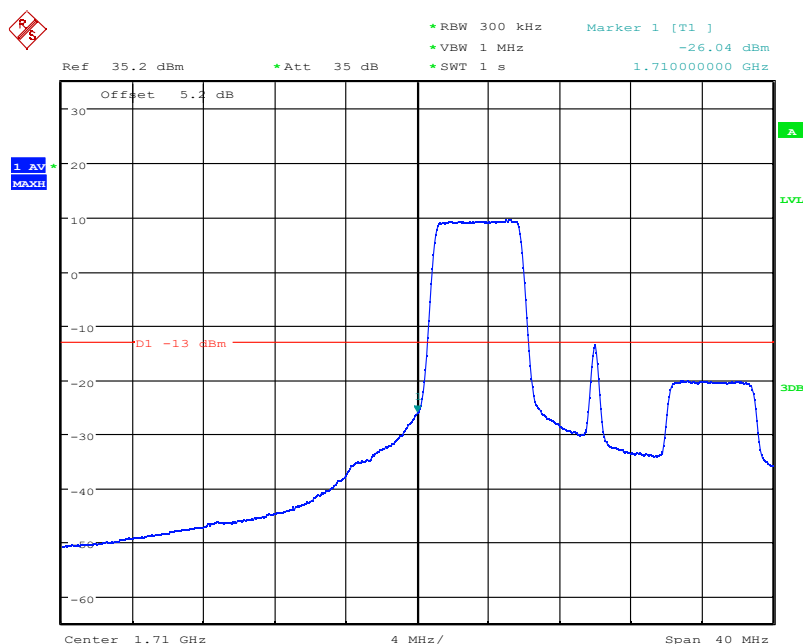
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:40:20

LTE Band4, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



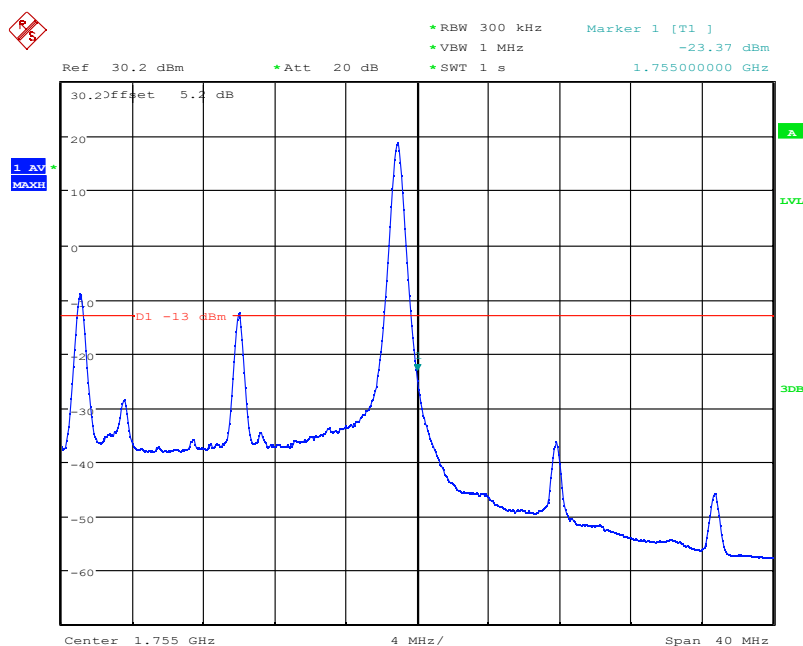
Date: 8.SEP.2021 10:59:08

LTE Band4, 20MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

Chongqing Academy of Information and Communication Technology

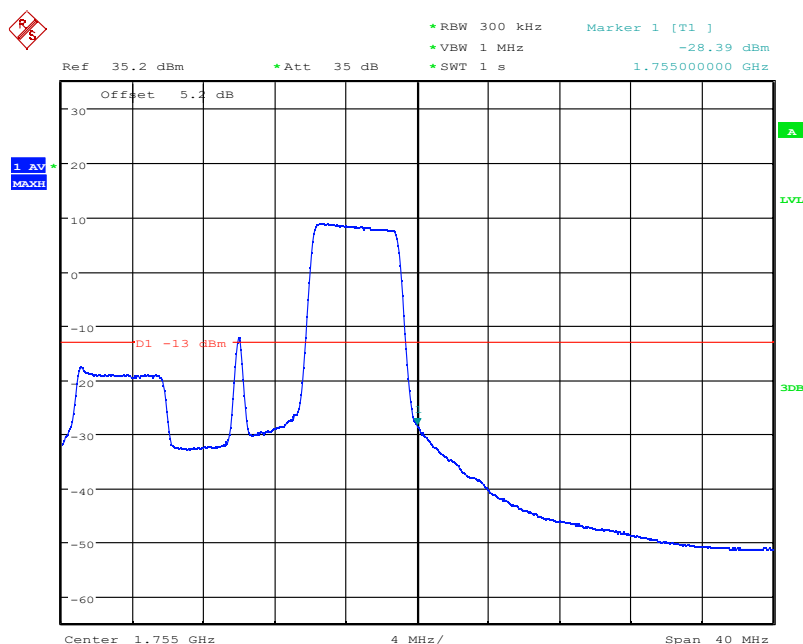
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:41:52

LTE Band4, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1755MHz



Date: 8.SEP.2021 10:59:34

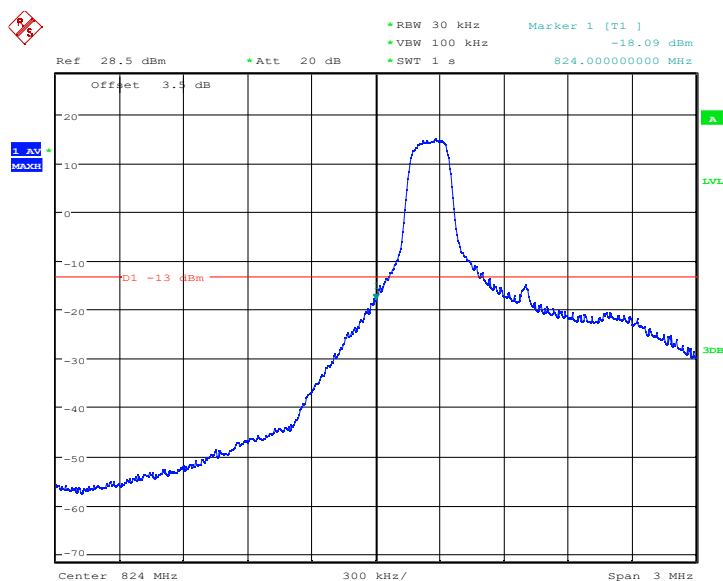
LTE Band4, 20MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz

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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

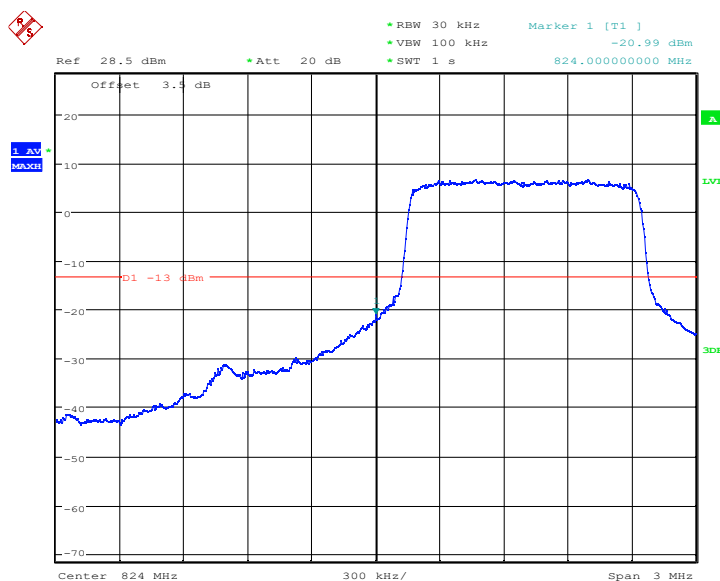
Report No.: I21W00031-WWAN_Rev3

5.5.5 LTE B5 Band Edge Results



9 Date: 6.SEP.2021 15:46:01

LTE Band5, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



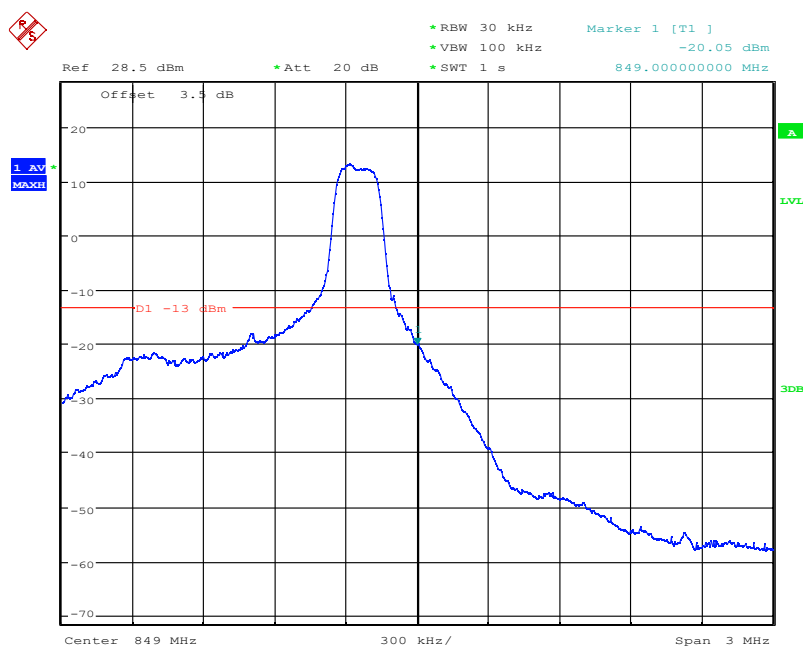
Date: 6.SEP.2021 15:45:44

LTE Band5, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 824MHz

Chongqing Academy of Information and Communication Technology

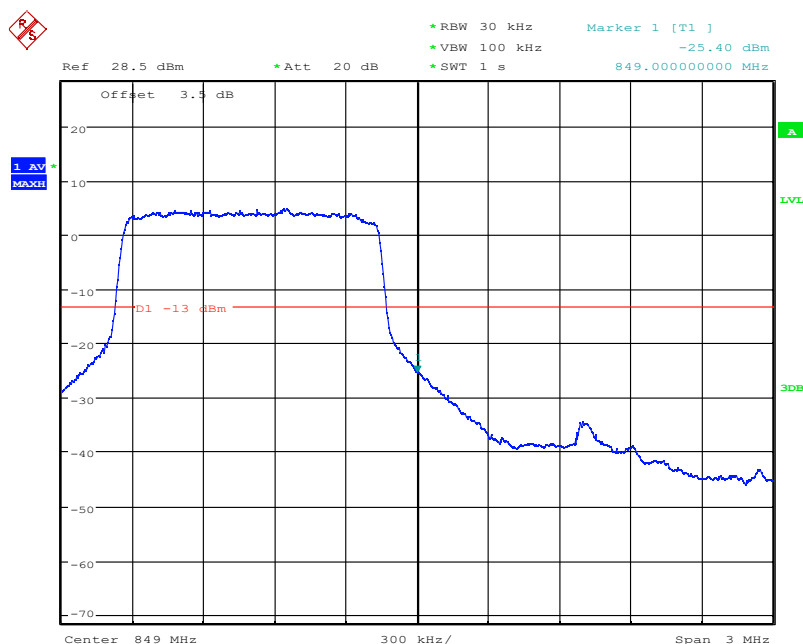
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:46:39

LTE Band5, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 849MHz



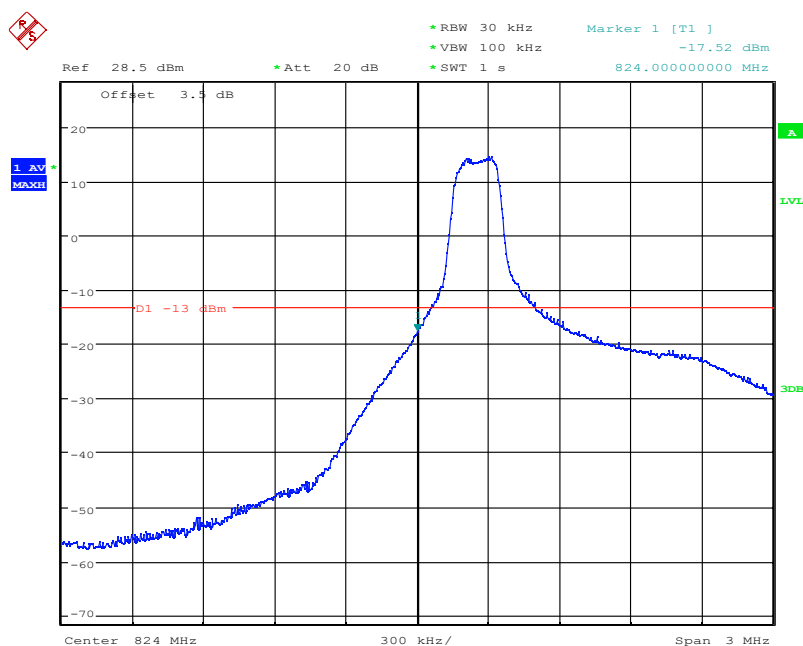
Date: 6.SEP.2021 15:46:56

LTE Band5, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 849MHz

Chongqing Academy of Information and Communication Technology

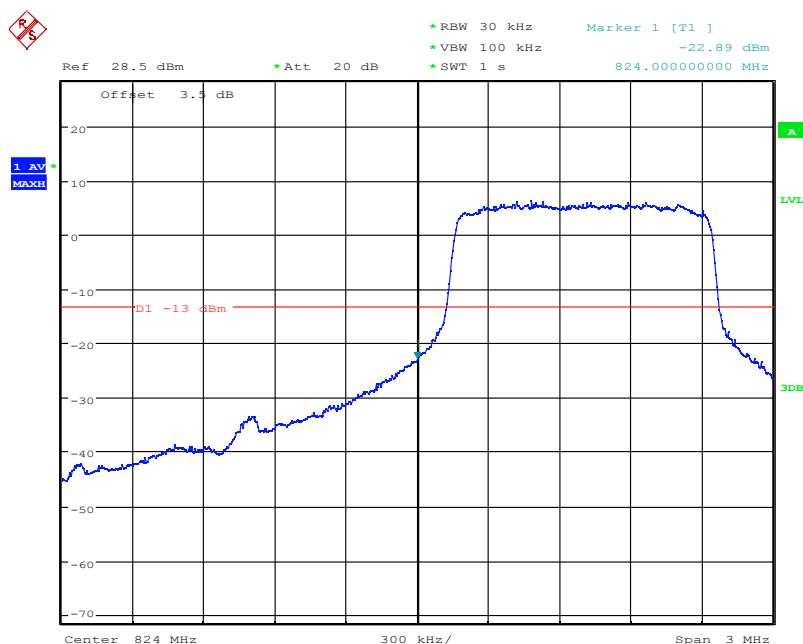
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:45:17

LTE Band5, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz



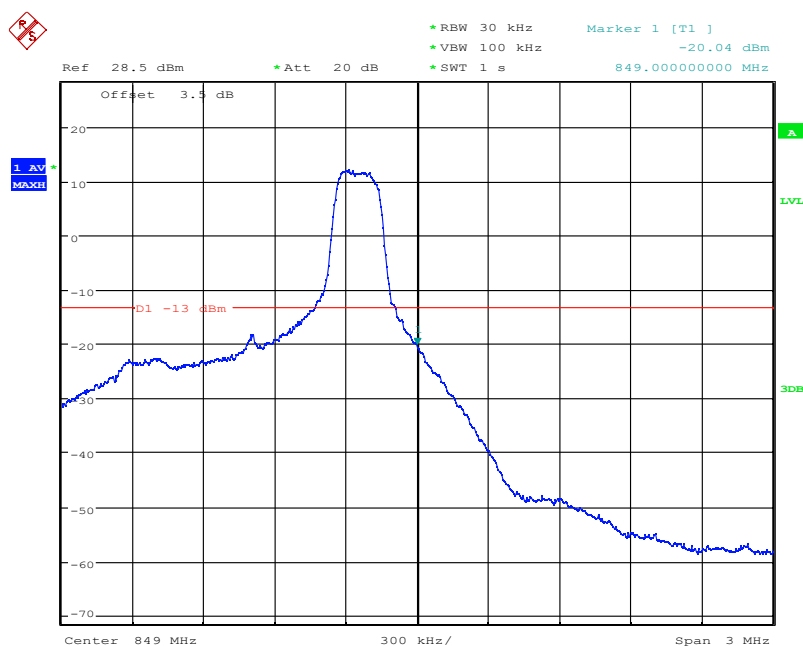
Date: 6.SEP.2021 15:45:31

LTE Band5, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 824MHz

Chongqing Academy of Information and Communication Technology

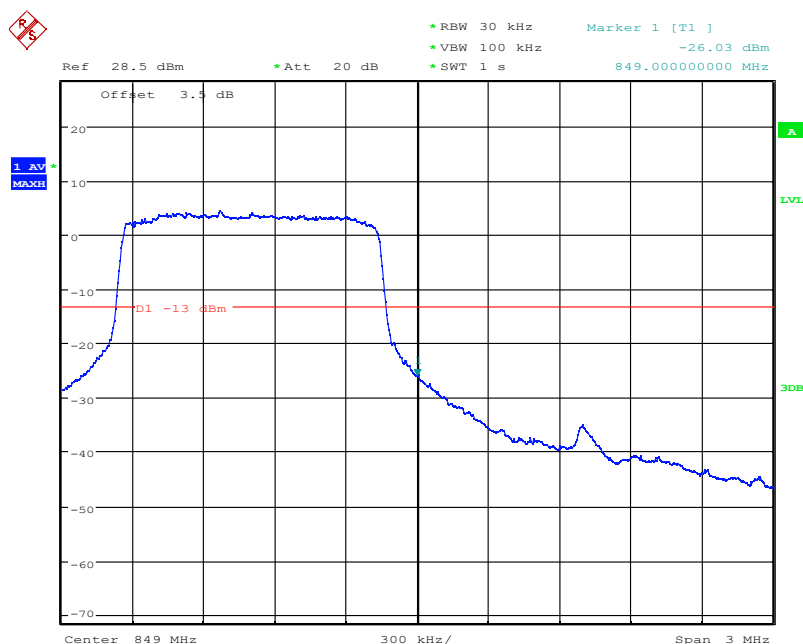
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:47:36

LTE Band5, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 849MHz



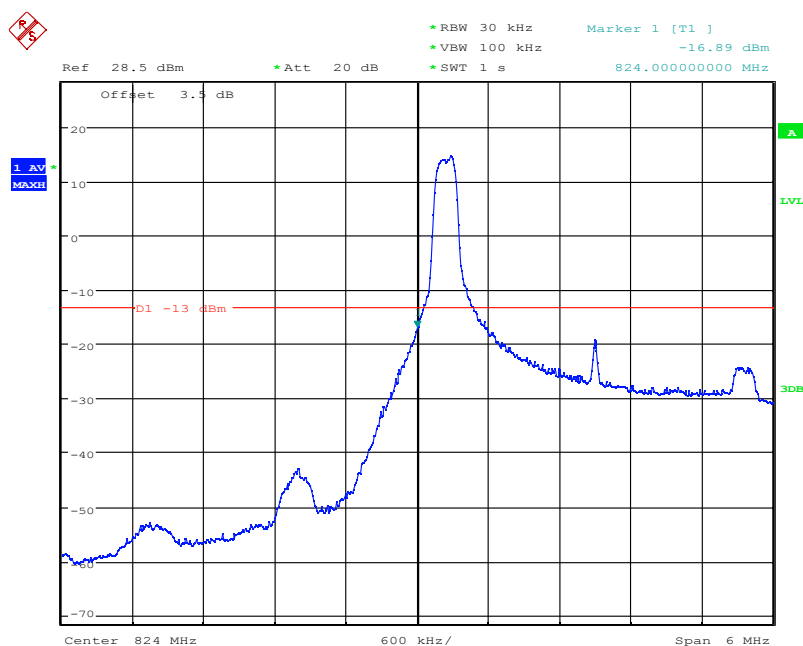
Date: 6.SEP.2021 15:47:14

LTE Band5, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 849MHz

Chongqing Academy of Information and Communication Technology

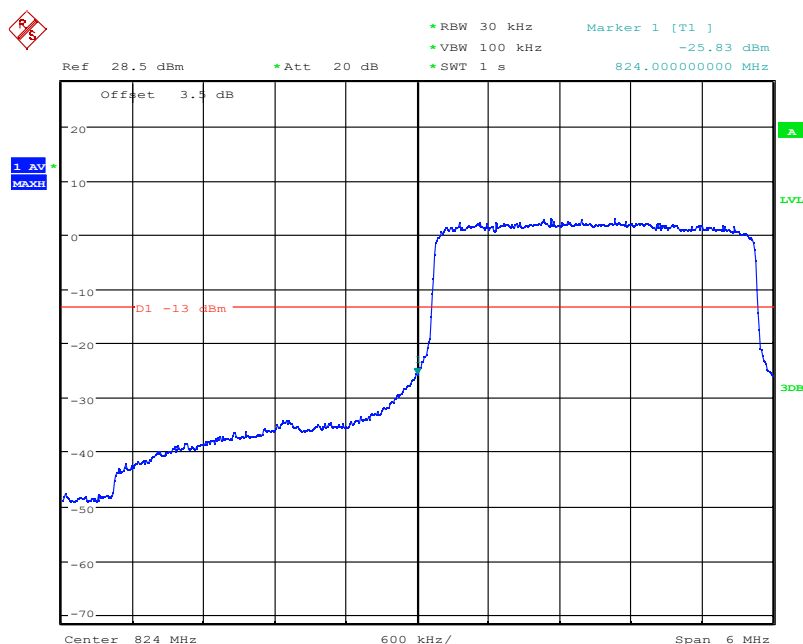
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:49:49

LTE Band5, 3MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



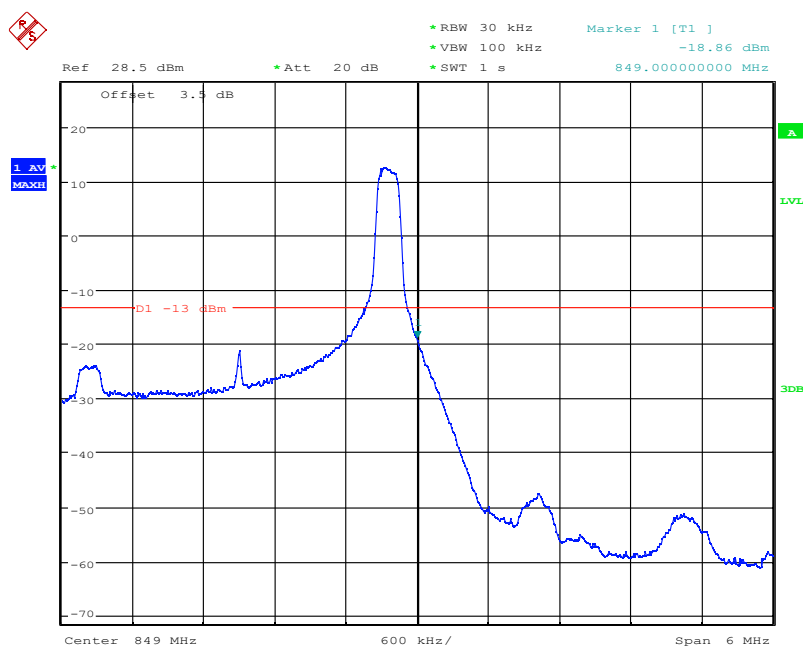
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LTE Band5, 3MHz bandwidth, QPSK,(15,0) Mode , Below 824MHz

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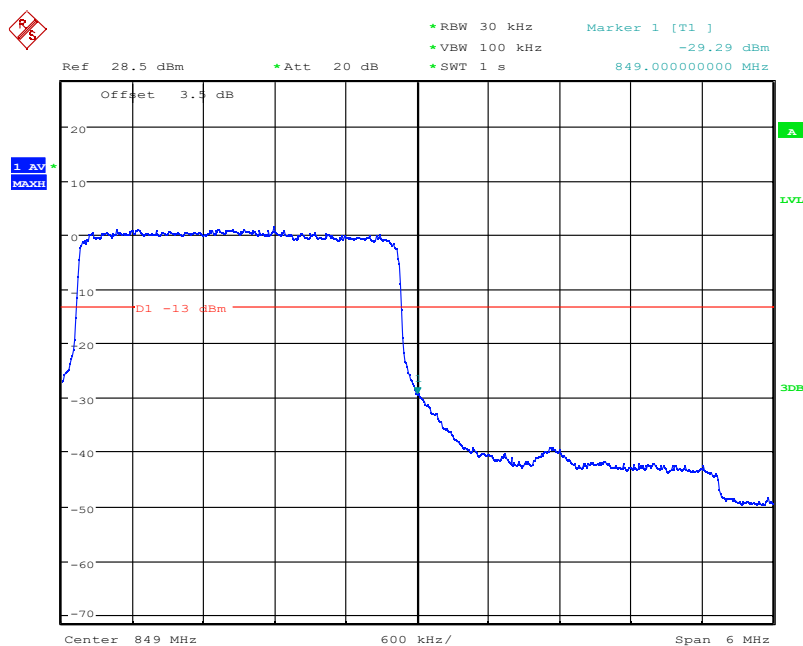
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:48:40

LTE Band5, 3MHz bandwidth, QPSK,(1,15) Mode, Above 849MHz



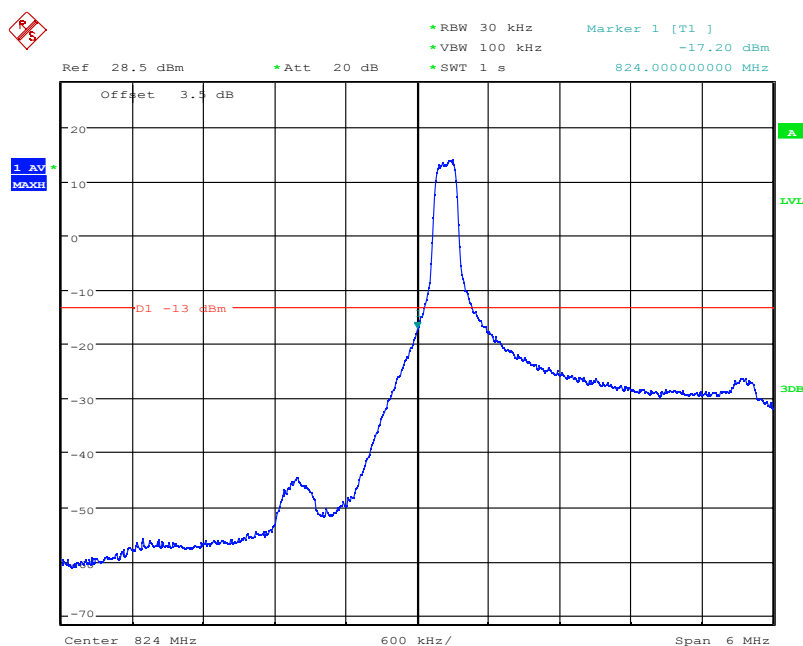
Date: 6.SEP.2021 15:48:56

LTE Band5, 3MHz bandwidth, QPSK,(15,0) Mode, Above 849MHz

Chongqing Academy of Information and Communication Technology

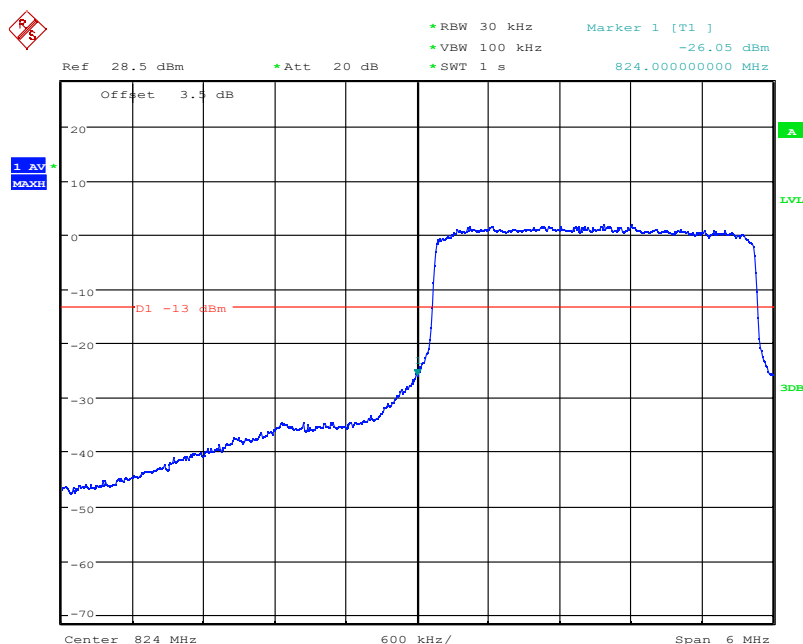
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:50:05

LTE Band5, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz



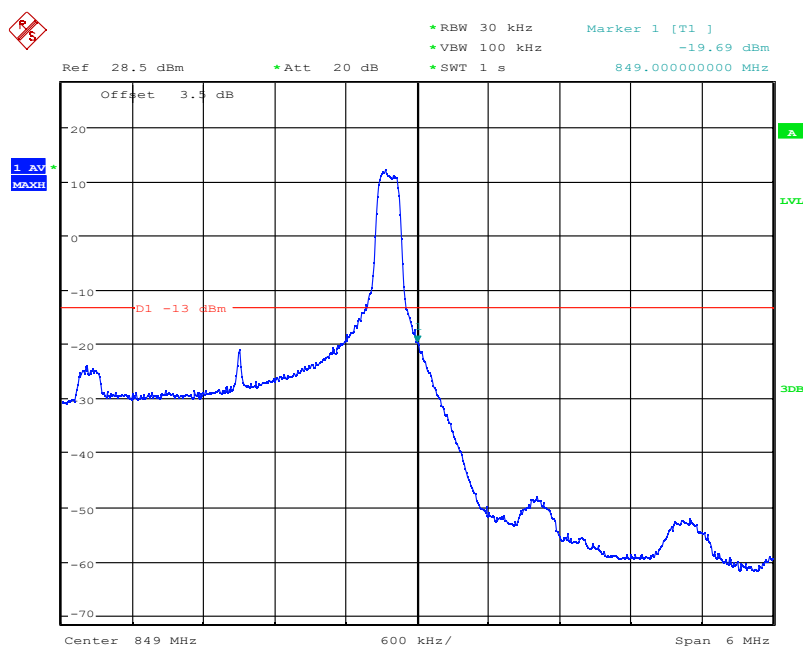
Date: 6.SEP.2021 15:50:27

LTE Band5, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 824MHz

Chongqing Academy of Information and Communication Technology

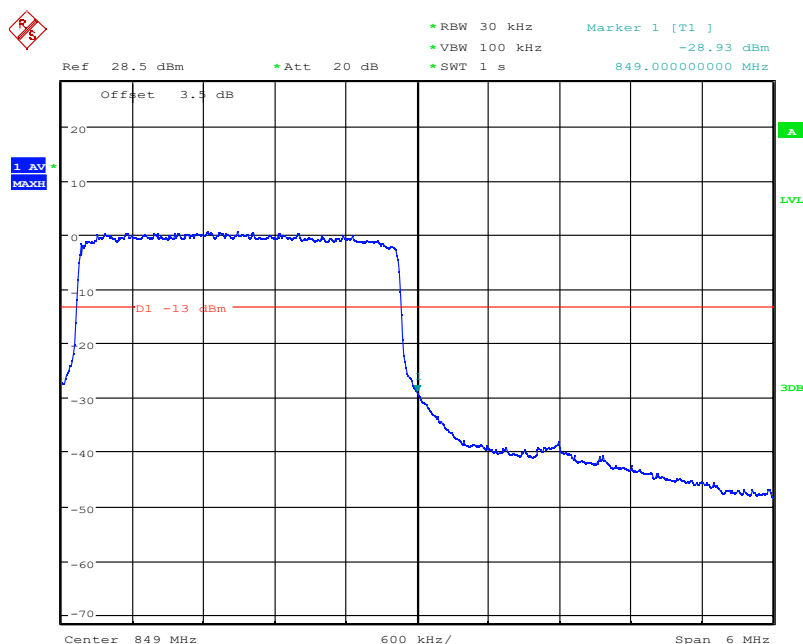
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:48:23

LTE Band5, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 849MHz



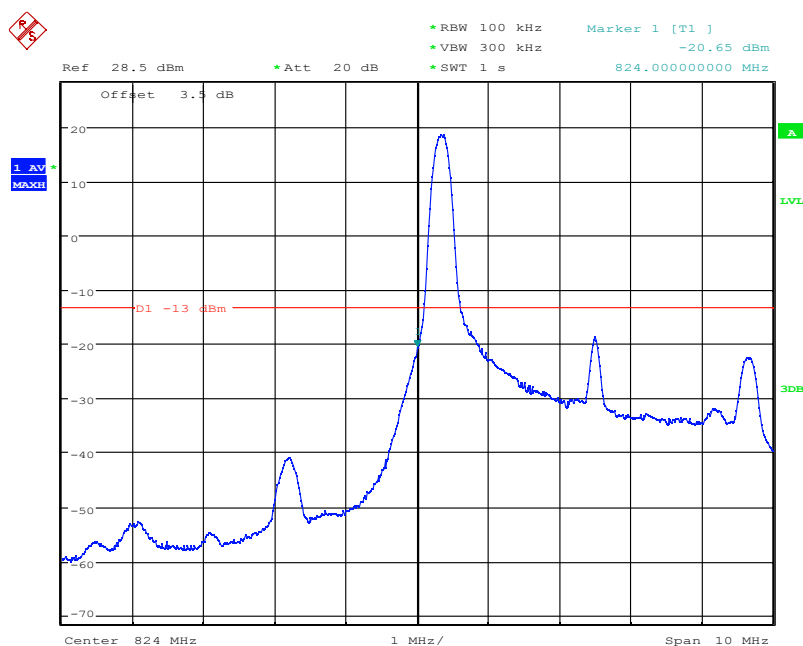
Date: 6.SEP.2021 15:48:07

LTE Band5, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 849MHz

Chongqing Academy of Information and Communication Technology

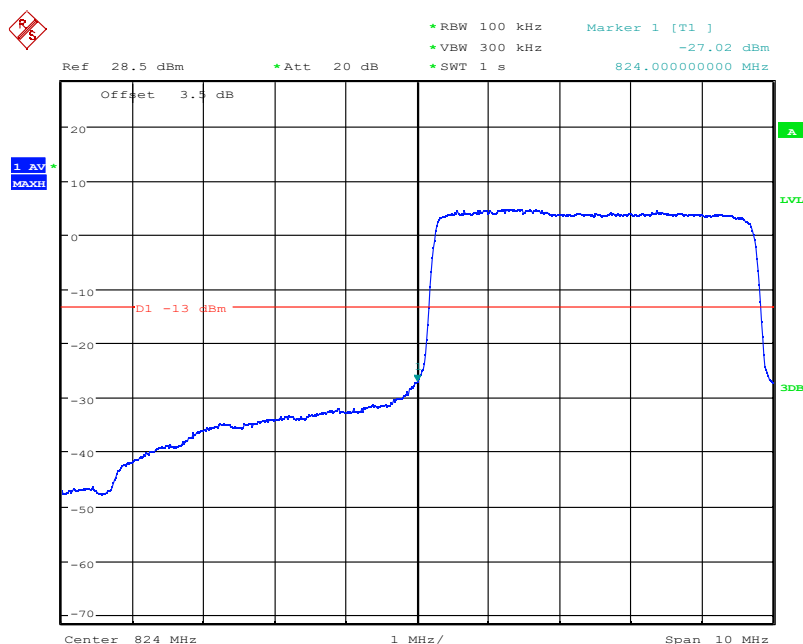
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:51:38

LTE Band5, 5MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



Date: 6.SEP.2021 15:51:52

LTE Band5, 5MHz bandwidth, QPSK,(25,0) Mode , Below 824MHz

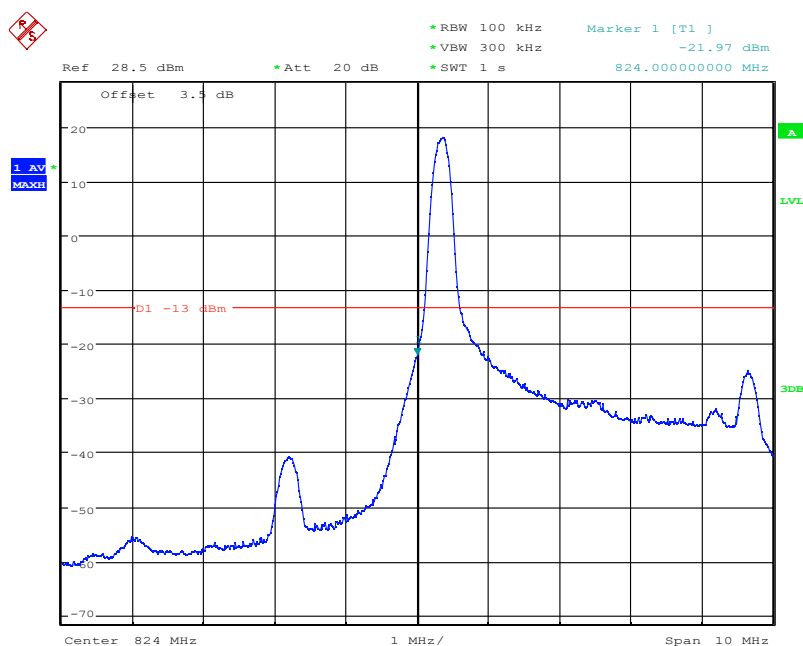
Chongqing Academy of Information and Communication Technology

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



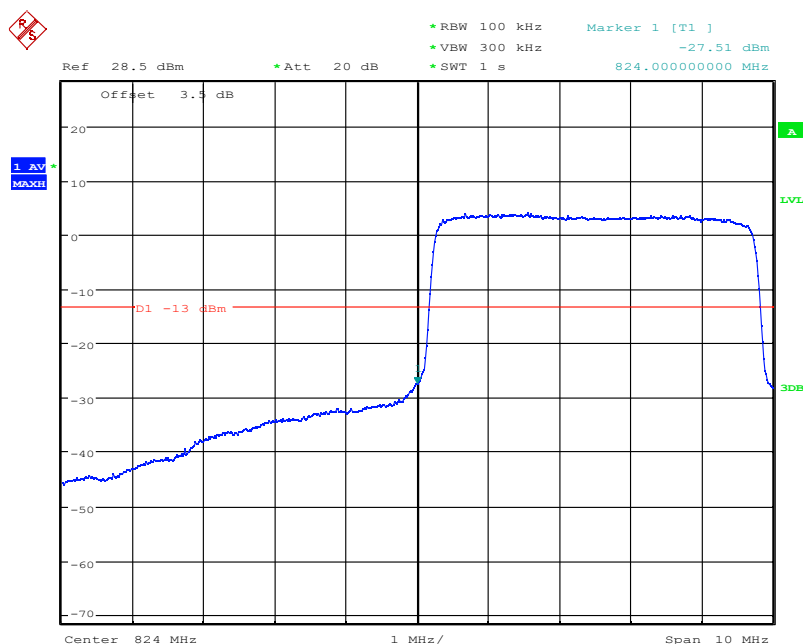
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 15:51:20

LTE Band5, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz

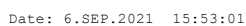


Date: 6.SEP.2021 15:51:03

LTE Band5, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 824MHz

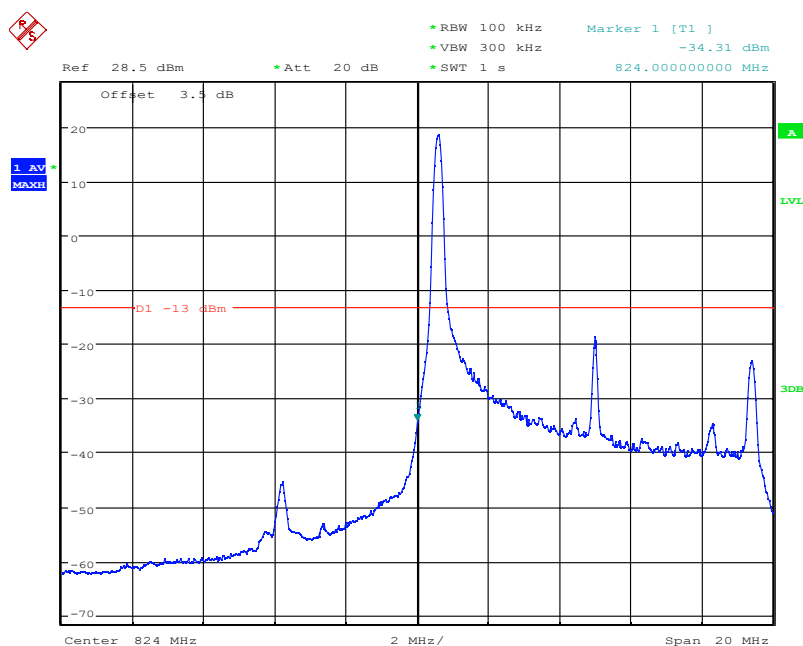
Chongqing Academy of Information and Communication Technology

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



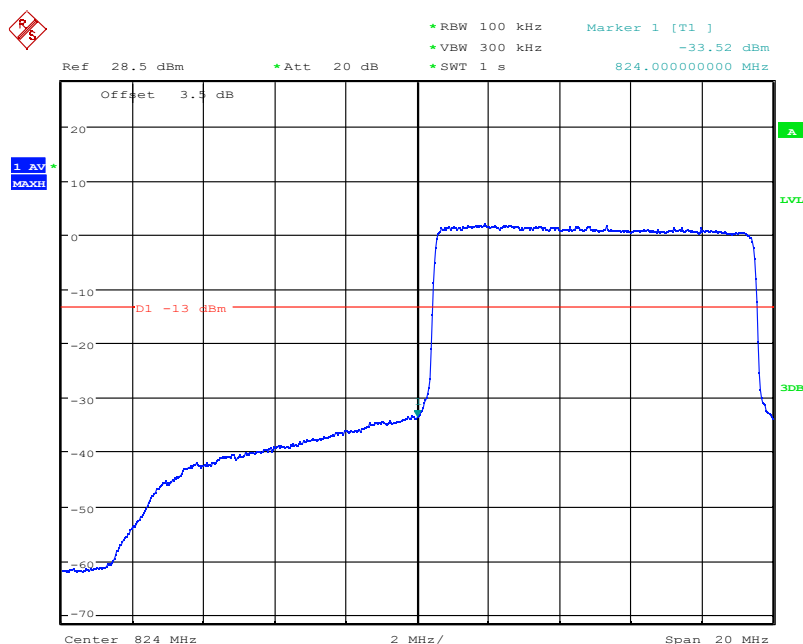
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 16:10:45

LTE Band5, 10MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



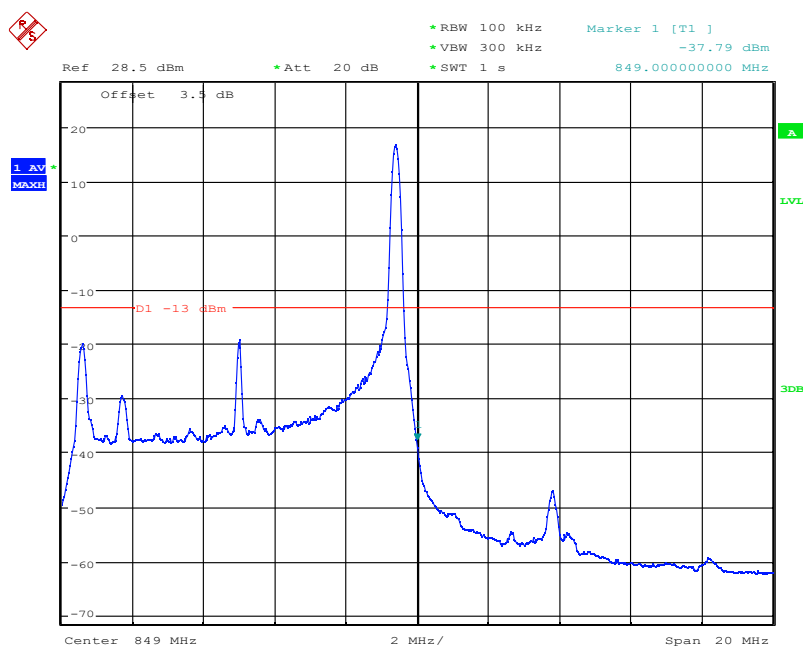
Date: 6.SEP.2021 16:10:24

LTE Band5, 10MHz bandwidth, QPSK,(50,0) Mode , Below 824MHz

Chongqing Academy of Information and Communication Technology

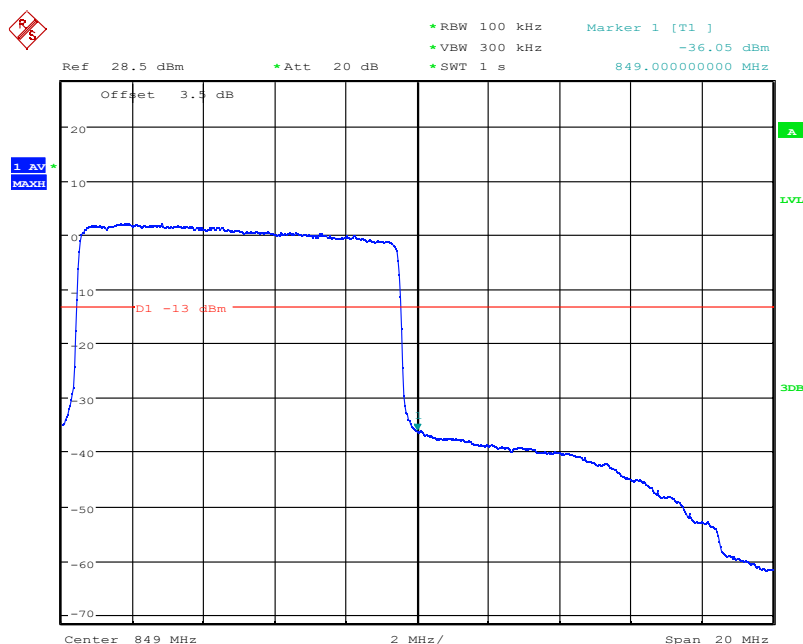
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 16:09:37

LTE Band5, 10MHz bandwidth, QPSK,(1,50) Mode, Above 849MHz



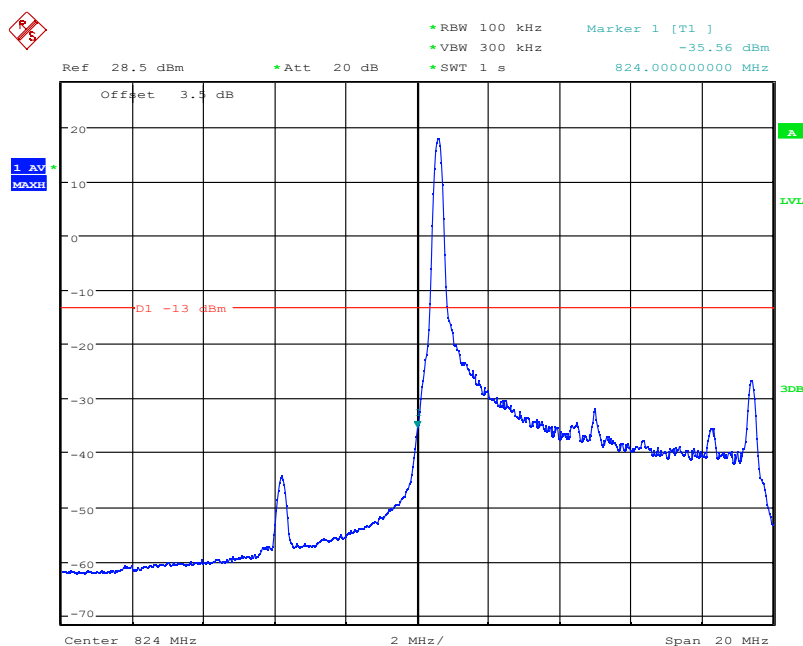
Date: 6.SEP.2021 16:09:53

LTE Band5, 10MHz bandwidth, QPSK,(50,0) Mode, Above 849MHz

Chongqing Academy of Information and Communication Technology

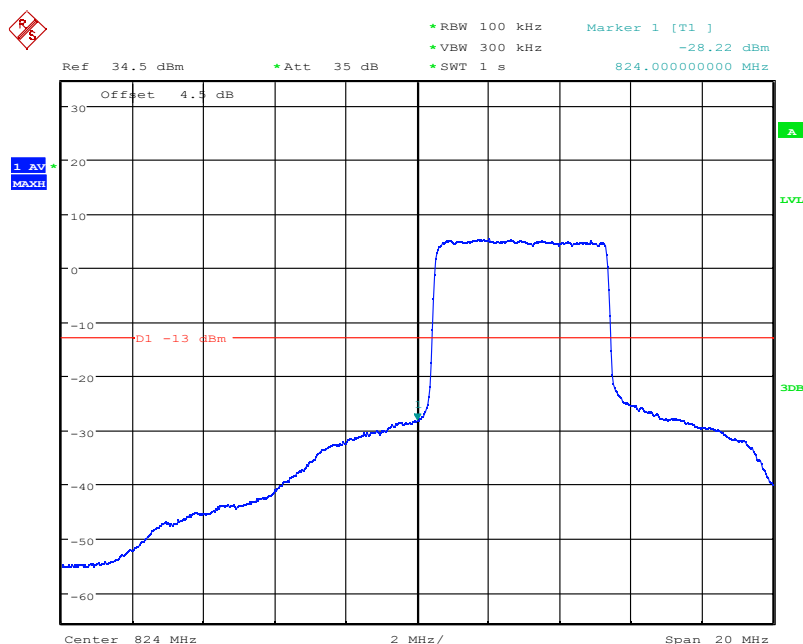
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 16:11:04

LTE Band5, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz



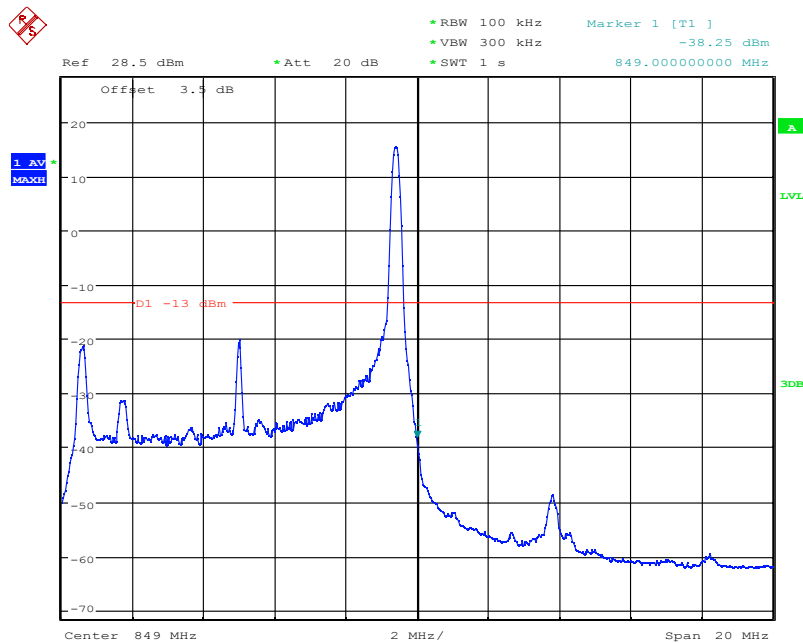
Date: 8.SEP.2021 11:05:11

LTE Band5, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 824MHz

Chongqing Academy of Information and Communication Technology

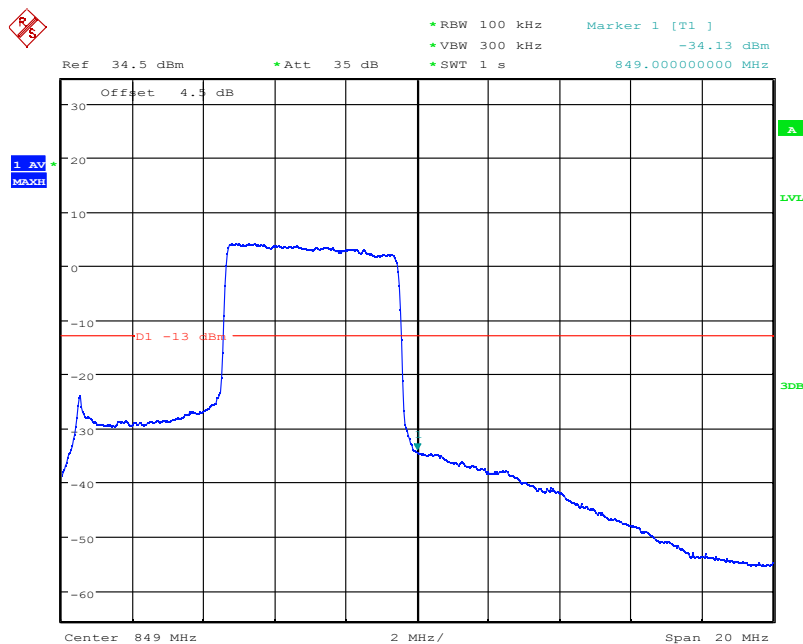
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 6.SEP.2021 16:08:59

LTE Band5, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 849MHz



Date: 8.SEP.2021 11:05:41

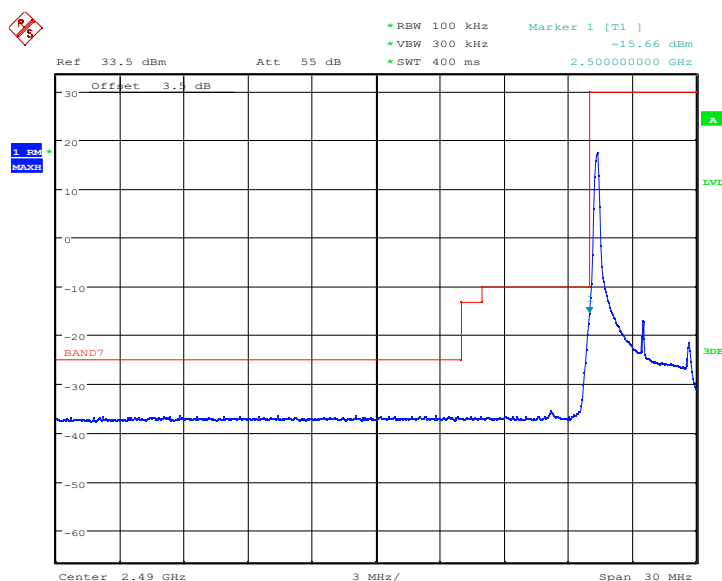
LTE Band5, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 849MHz

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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

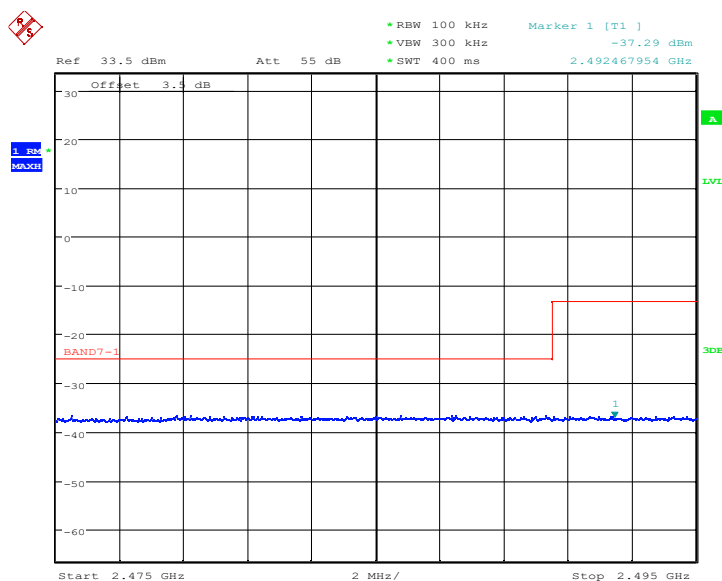
Report No.: I21W00031-WWAN_Rev3

5.5.6 LTE B7 Band Edge Results



Date: 9.SEP.2021 15:46:01

LTE Band7, 5MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz



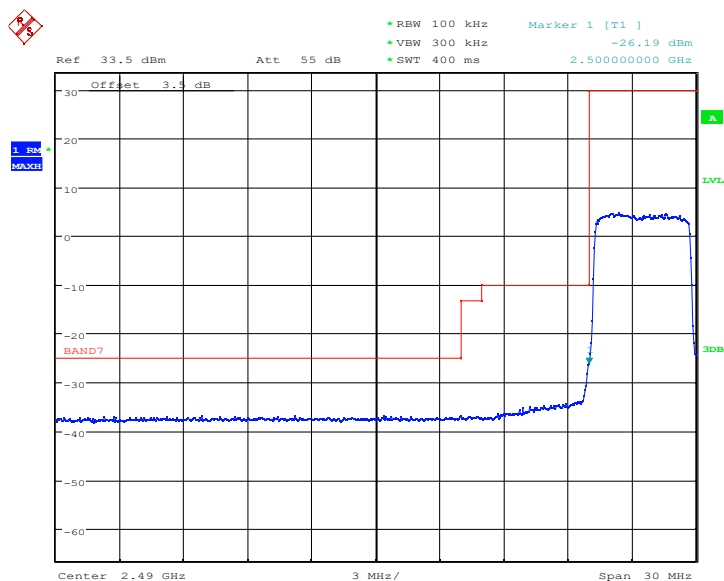
Date: 9.SEP.2021 15:47:15

LTE Band7, 5MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz

Chongqing Academy of Information and Communication Technology

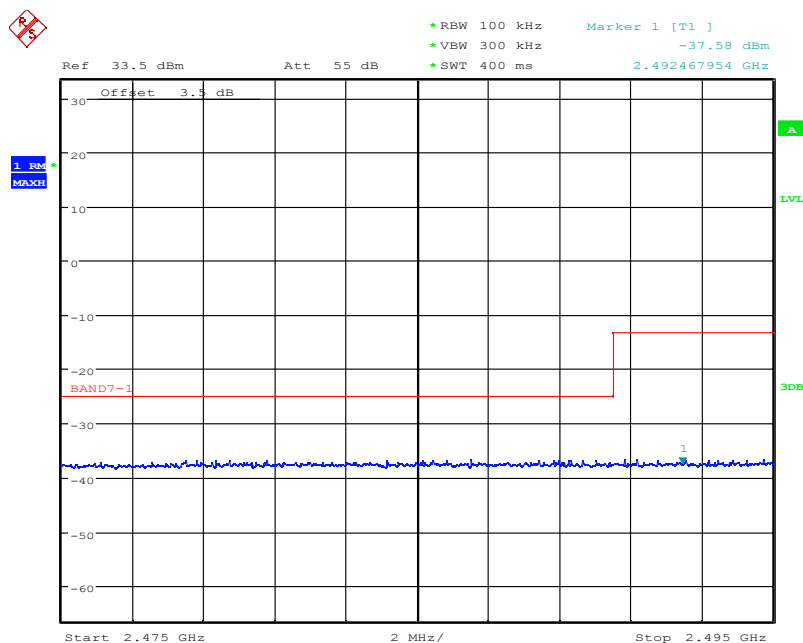
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:48:09

LTE Band7, 5MHz bandwidth, QPSK,(25,0) Mode , Below 2500MHz



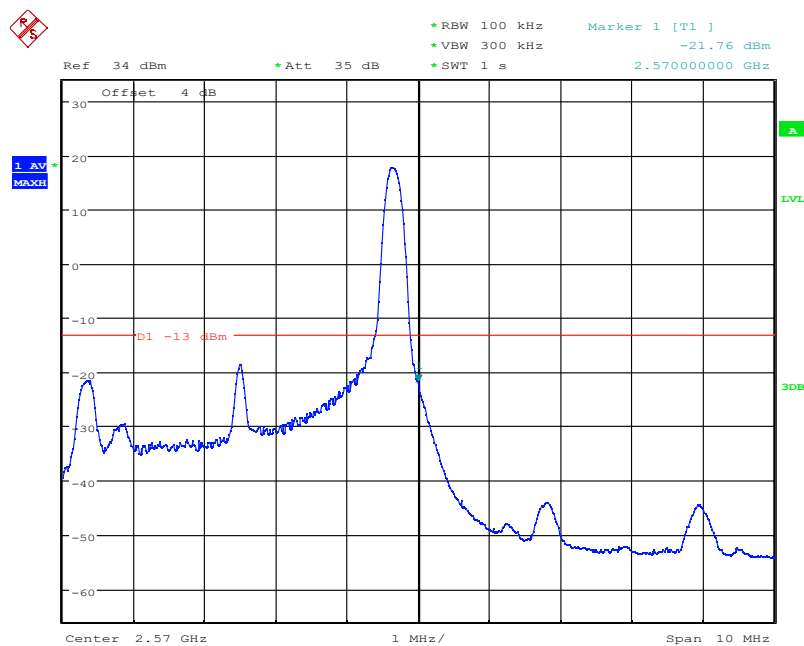
Date: 9.SEP.2021 15:47:40

LTE Band7, 5MHz bandwidth, QPSK,(25,0) Mode , Below 2500MHz

Chongqing Academy of Information and Communication Technology

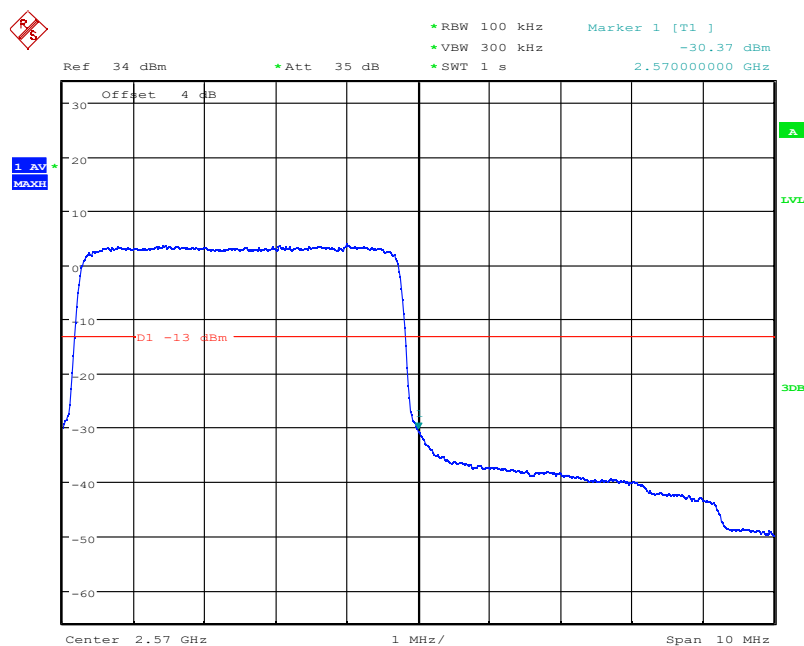
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 8.SEP.2021 10:31:12

LTE Band7, 5MHz bandwidth, QPSK,(1,25) Mode, Above 2570MHz



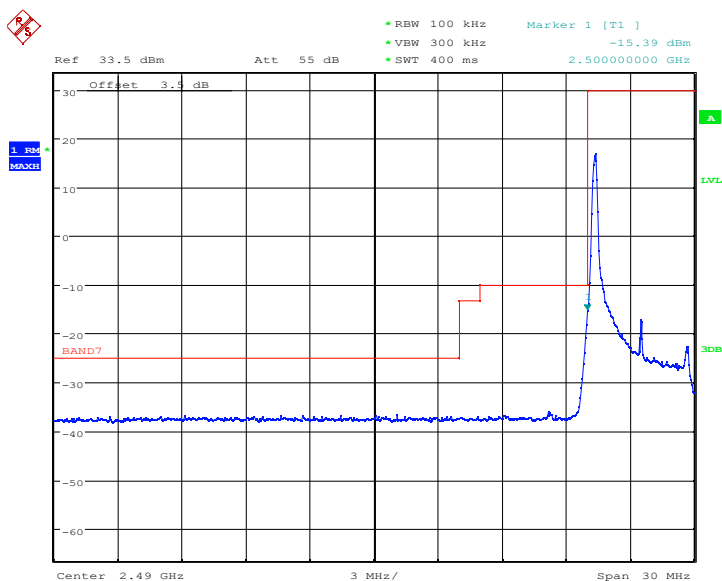
Date: 8.SEP.2021 10:31:25

LTE Band7, 5MHz bandwidth, QPSK,(25,0) Mode, Above 2570MHz

Chongqing Academy of Information and Communication Technology

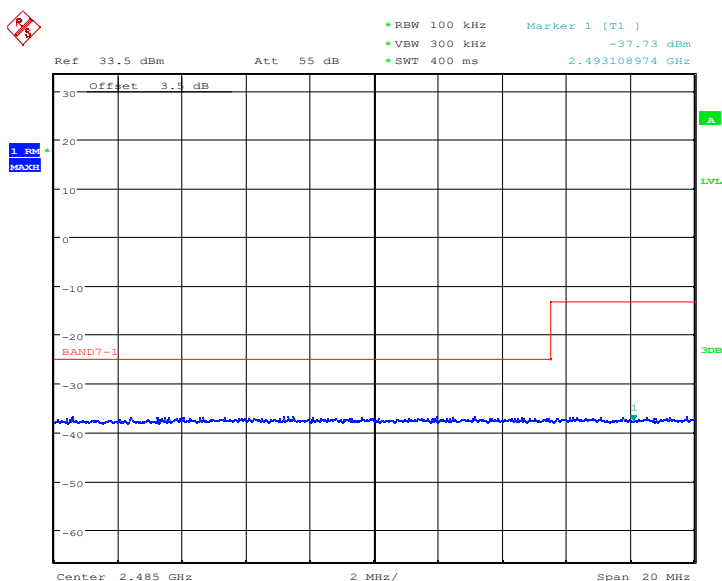
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:51:04

LTE Band7, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz



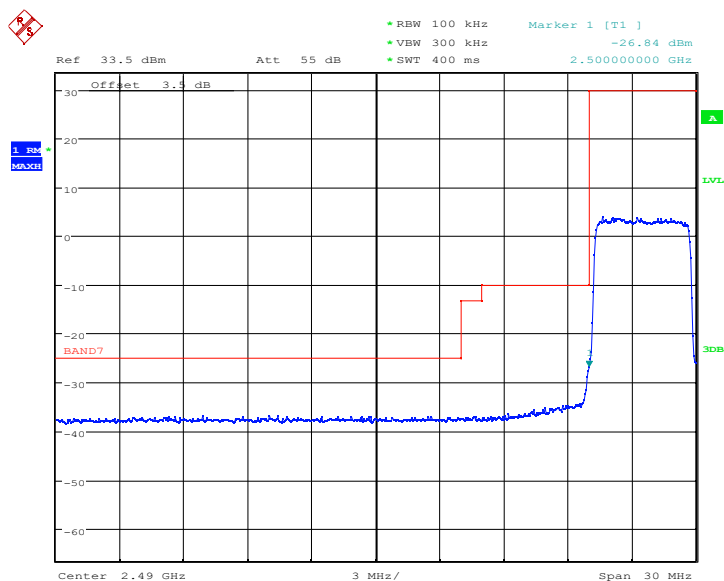
Date: 9.SEP.2021 15:50:42

LTE Band7, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz

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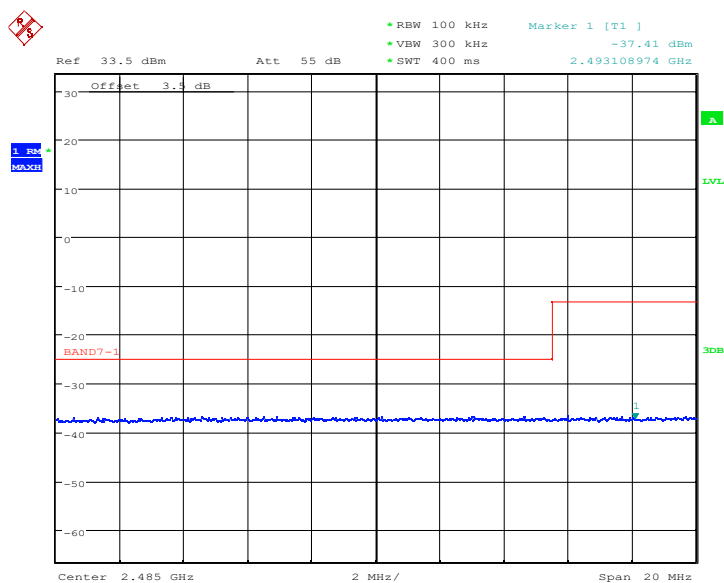
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:48:28

LTE Band7, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 2500MHz



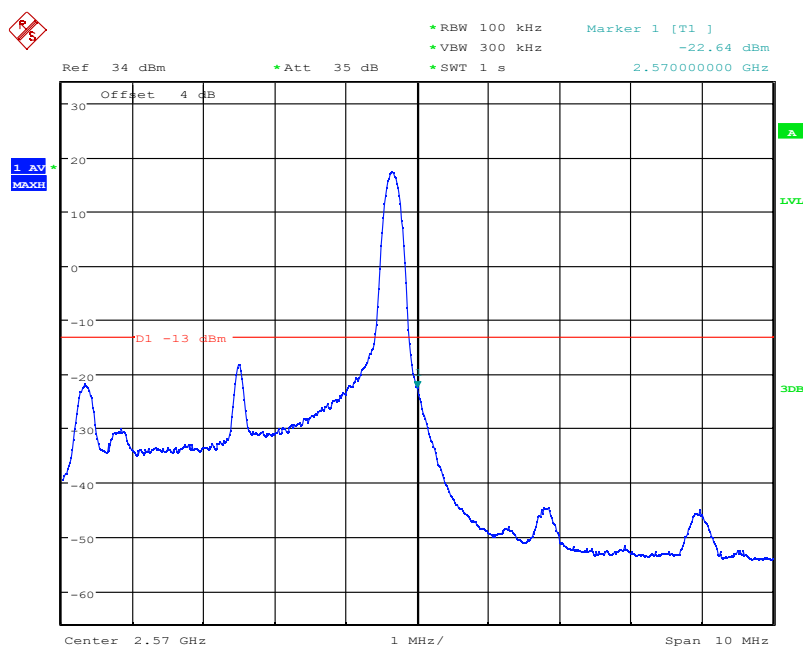
Date: 9.SEP.2021 15:49:32

LTE Band7, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 2500MHz

Chongqing Academy of Information and Communication Technology

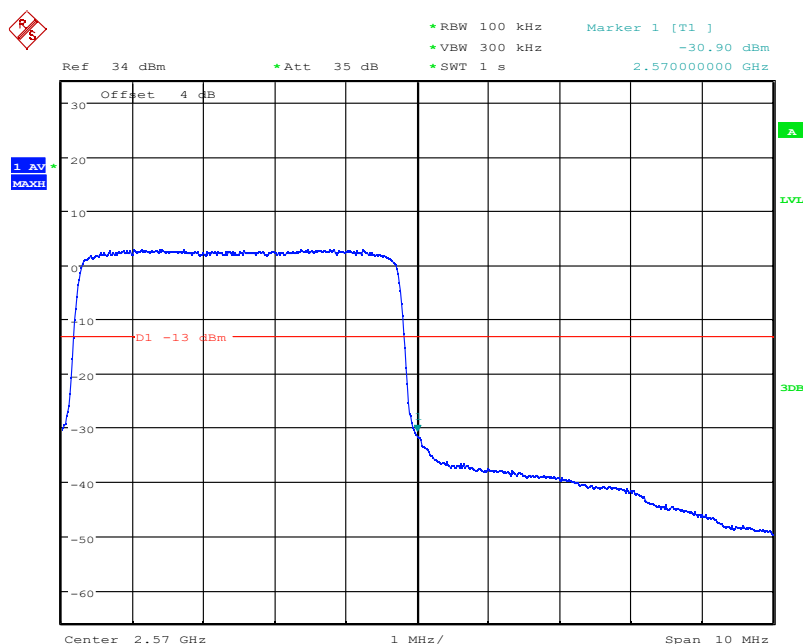
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 8.SEP.2021 10:30:59

LTE Band7, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 2570MHz



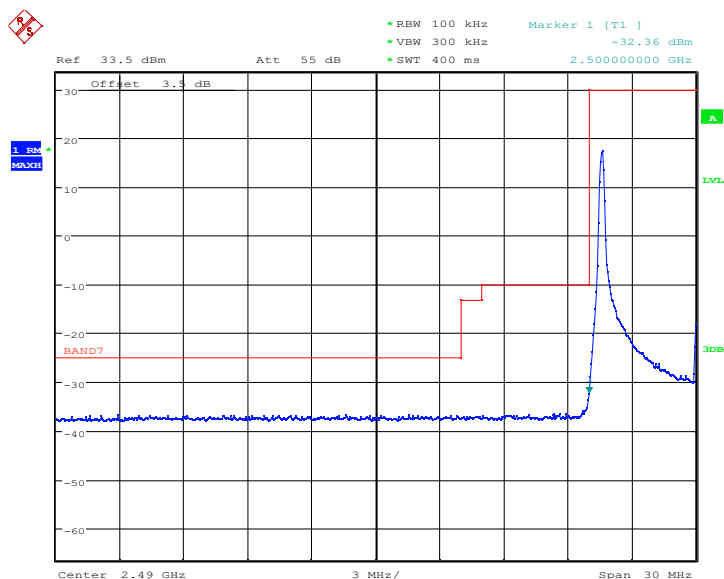
Date: 8.SEP.2021 10:30:44

LTE Band7, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 2570MHz

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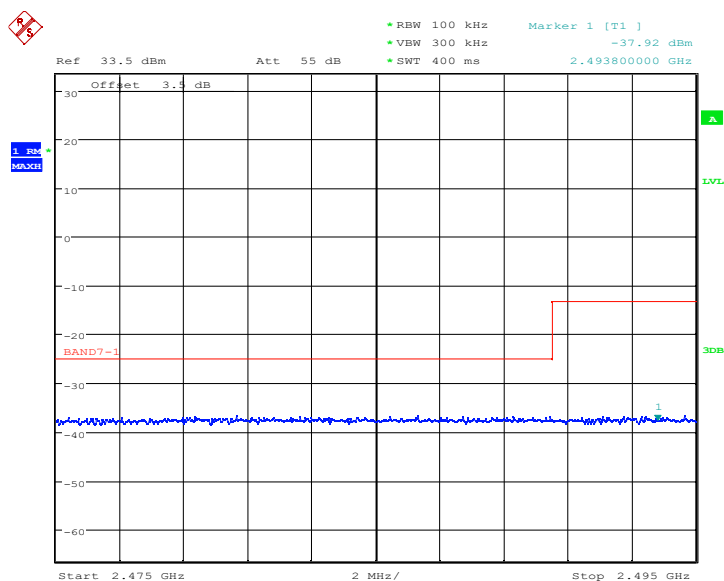
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:52:09

LTE Band7, 10MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz



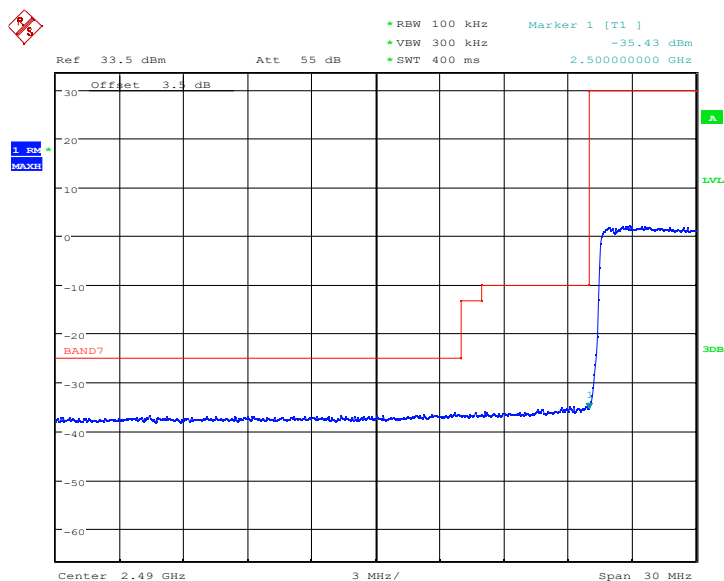
Date: 9.SEP.2021 15:54:24

LTE Band7, 10MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz

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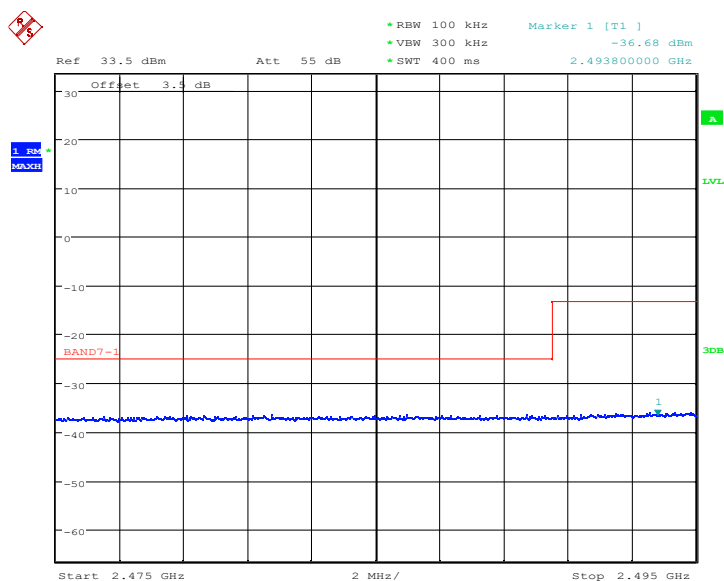
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:53:24

LTE Band7, 10MHz bandwidth, QPSK,(50,0) Mode , Below 2500MHz



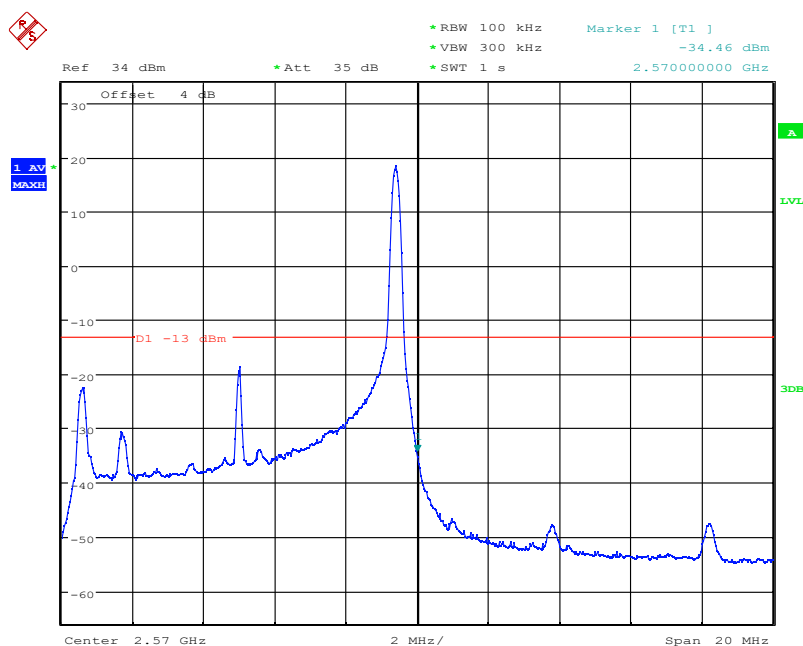
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LTE Band7, 10MHz bandwidth, QPSK,(50,0) Mode , Below 2500MHz

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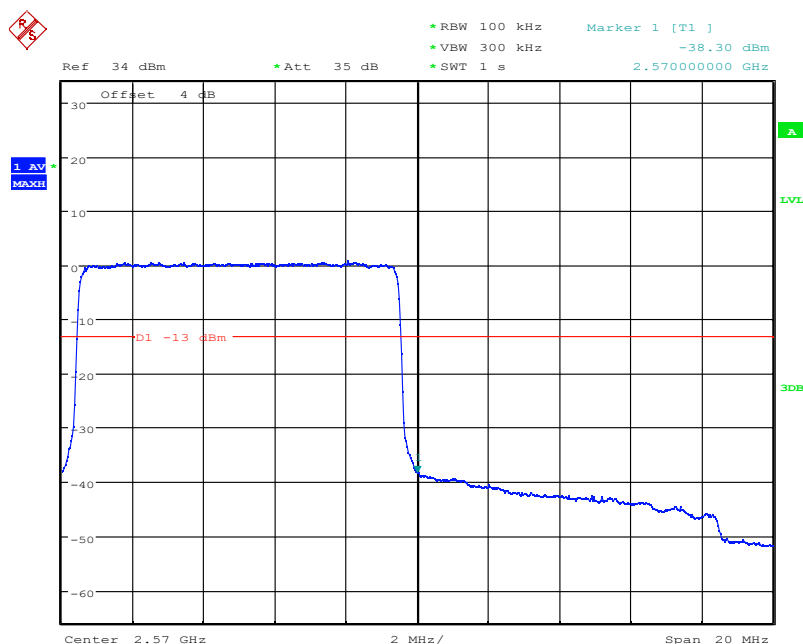
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 8.SEP.2021 10:34:01

LTE Band7, 10MHz bandwidth, QPSK,(1,50) Mode, Above 2570MHz



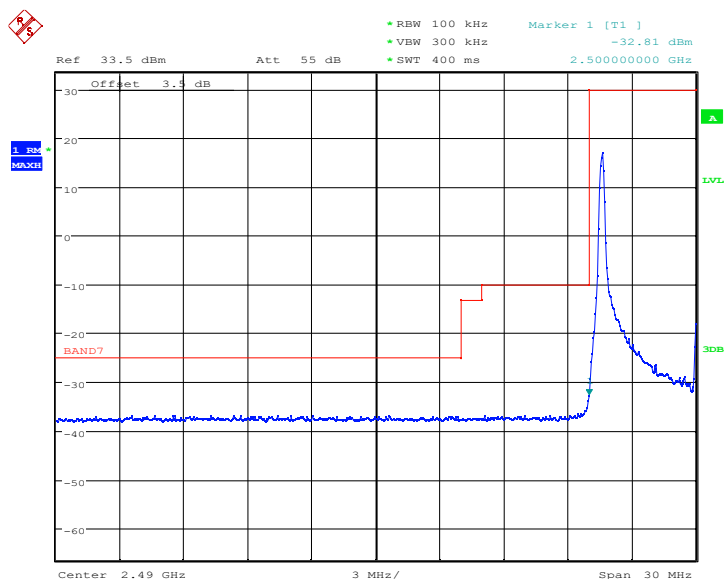
Date: 8.SEP.2021 10:34:19

LTE Band7, 10MHz bandwidth, QPSK,(50,0) Mode, Above 2570MHz

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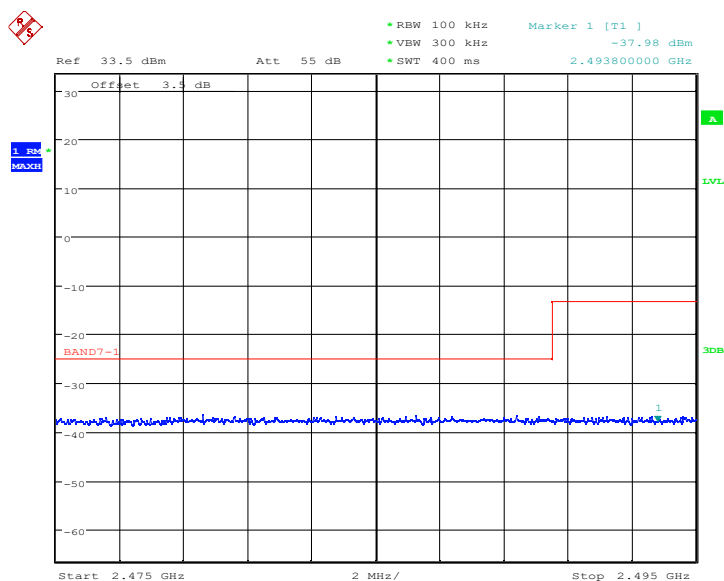
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:52:28

LTE Band7, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz



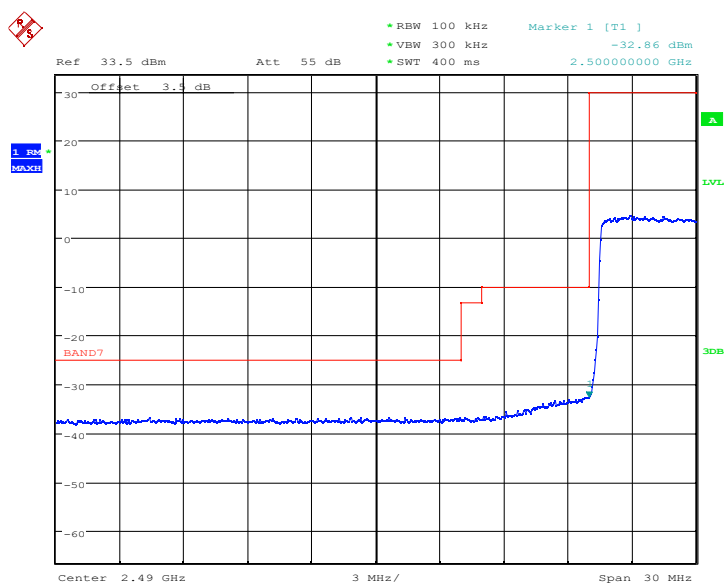
Date: 9.SEP.2021 15:54:35

LTE Band7, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz

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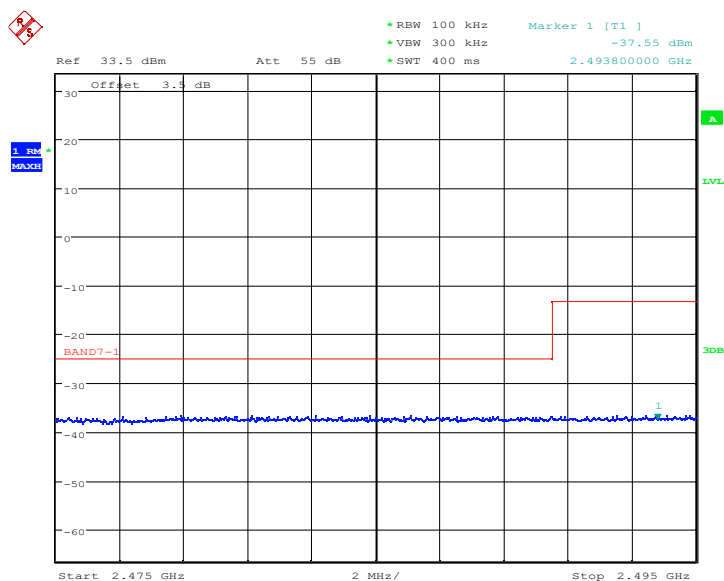
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:53:03

LTE Band7, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 2500MHz



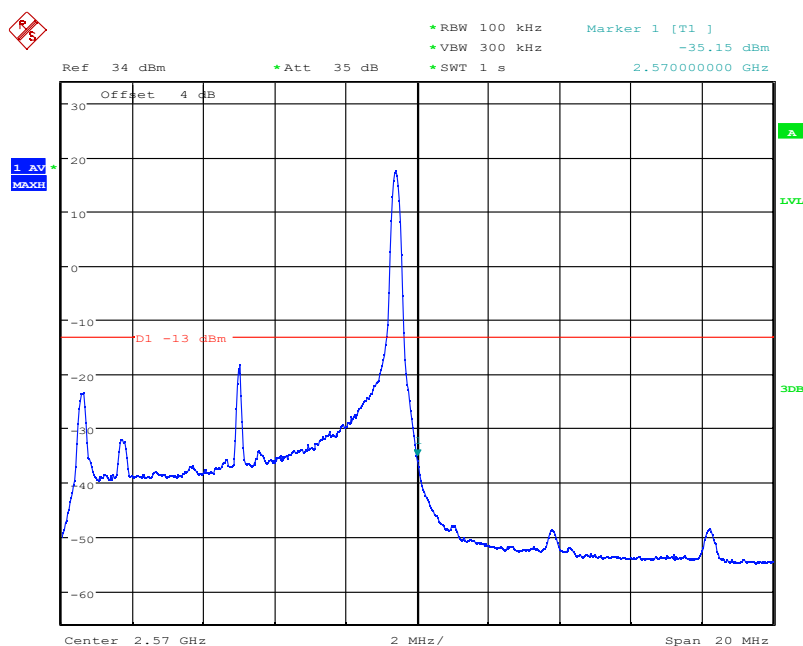
Date: 9.SEP.2021 15:54:54

LTE Band7,10MHz bandwidth, 16QAM,(27,0) Mode , Below 2500MHz

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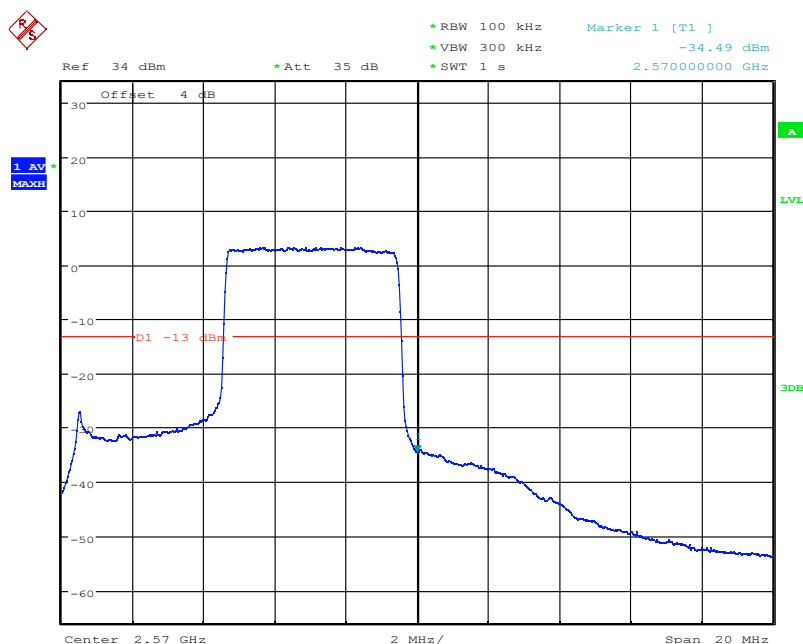
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 8.SEP.2021 10:32:34

LTE Band7, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 2570MHz



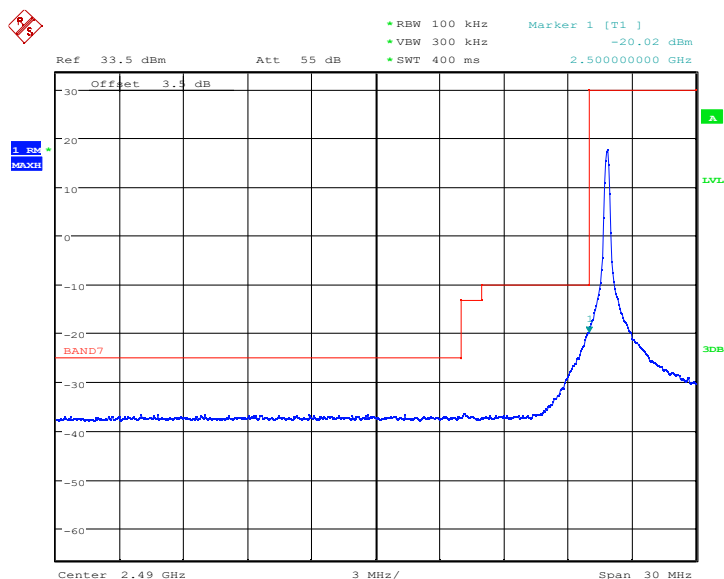
Date: 8.SEP.2021 10:32:20

LTE Band7, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 2570MHz

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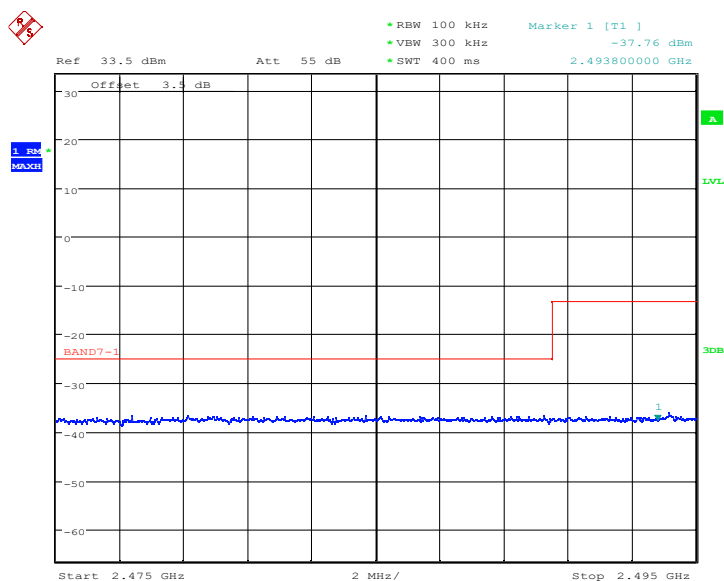
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:58:13

LTE Band7, 15MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz



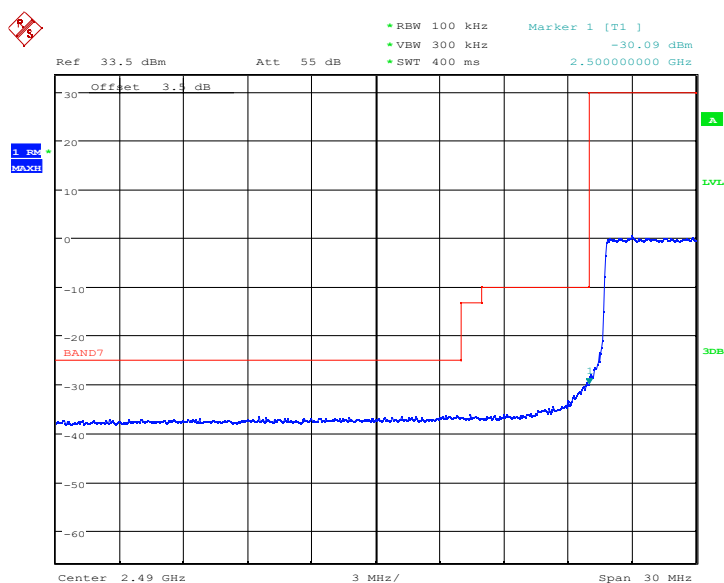
Date: 9.SEP.2021 15:55:41

LTE Band7, 15MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz

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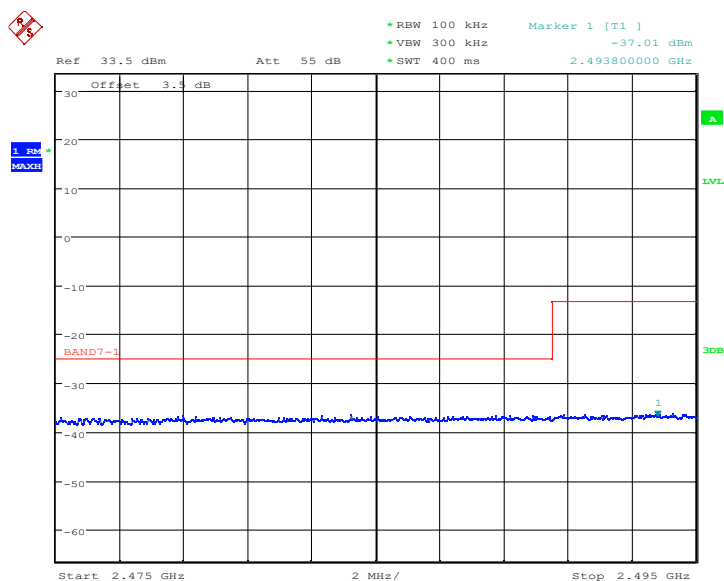
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:57:50

LTE Band7, 15MHz bandwidth, QPSK,(75,0) Mode , Below 2500MHz



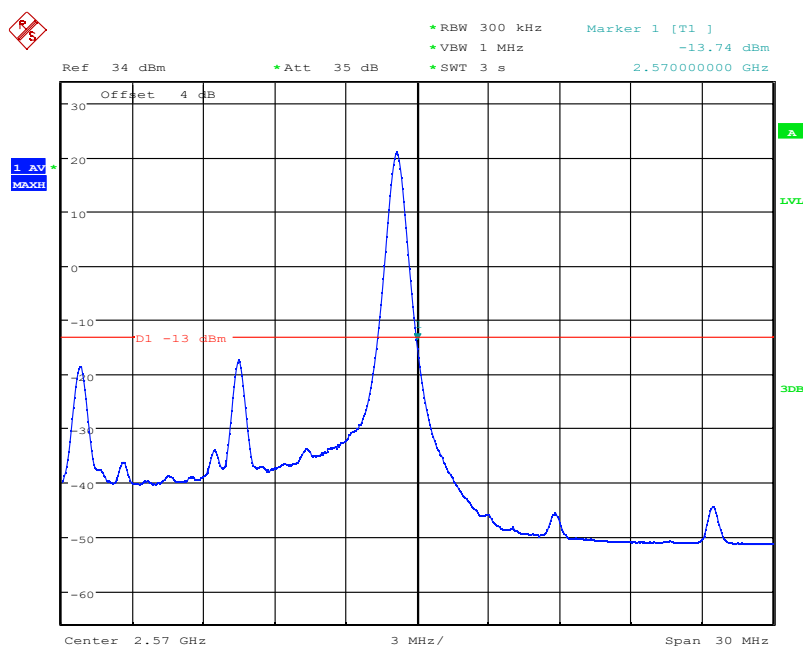
Date: 9.SEP.2021 15:55:54

LTE Band7, 15MHz bandwidth, QPSK,(75,0) Mode , Below 2500MHz

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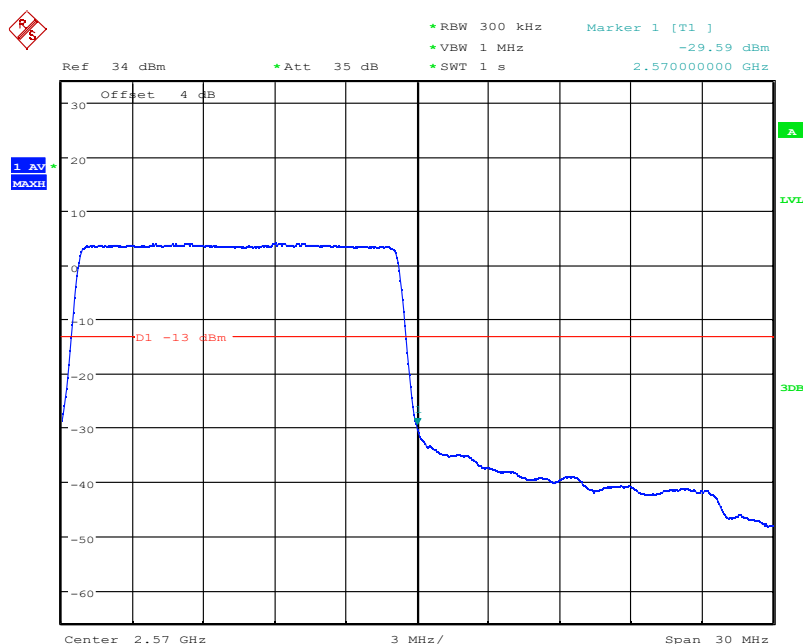
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 8.SEP.2021 10:39:20

LTE Band7, 15MHz bandwidth, QPSK,(1,75) Mode, Above 2570MHz



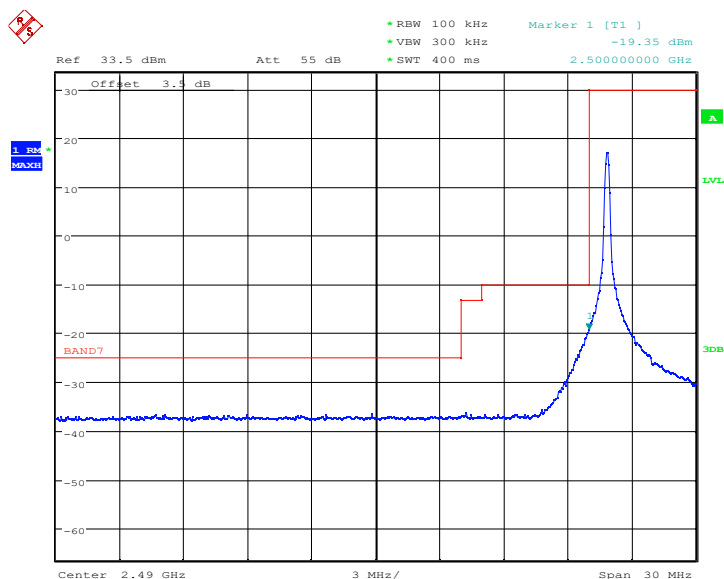
Date: 8.SEP.2021 10:38:31

LTE Band7, 15MHz bandwidth, QPSK,(75,0) Mode, Above 2570MHz

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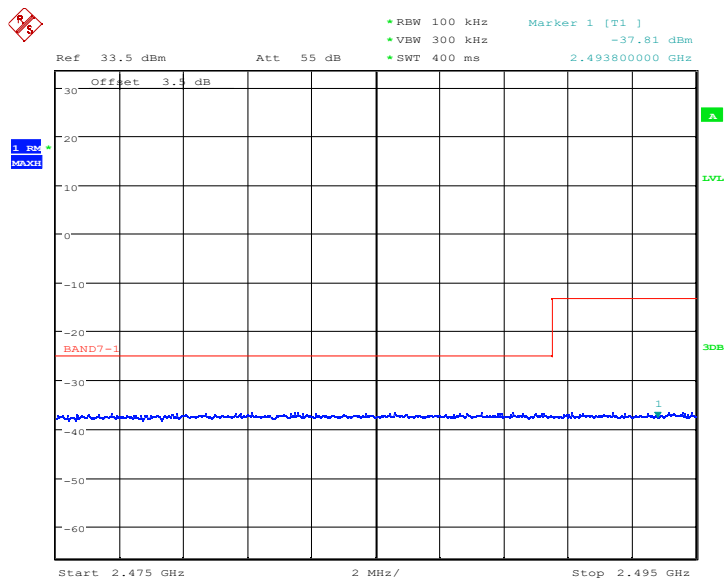
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:57:01

LTE Band7, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz



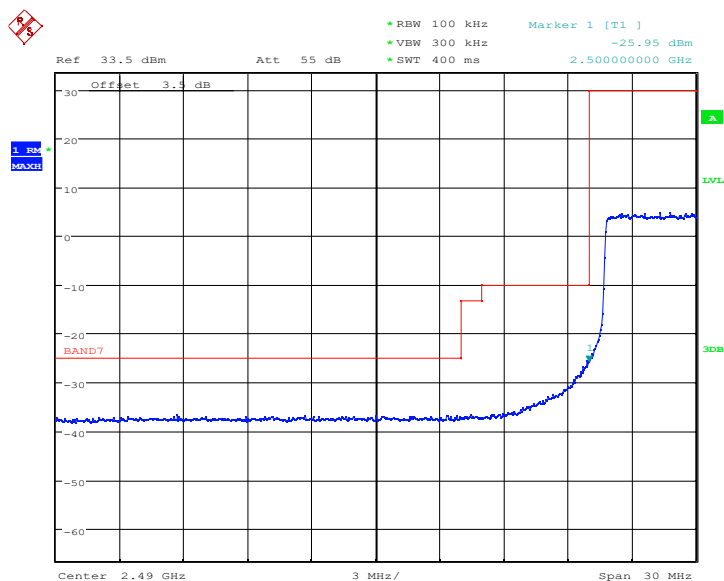
Date: 9.SEP.2021 15:56:30

LTE Band7, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz

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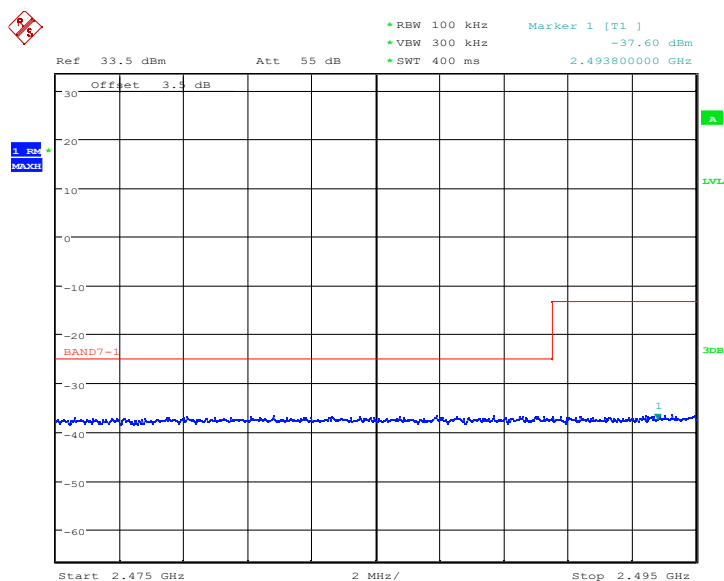
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:57:24

LTE Band7, 15MHz bandwidth, 16QAM,(27,0) Mode , Below 2500MHz



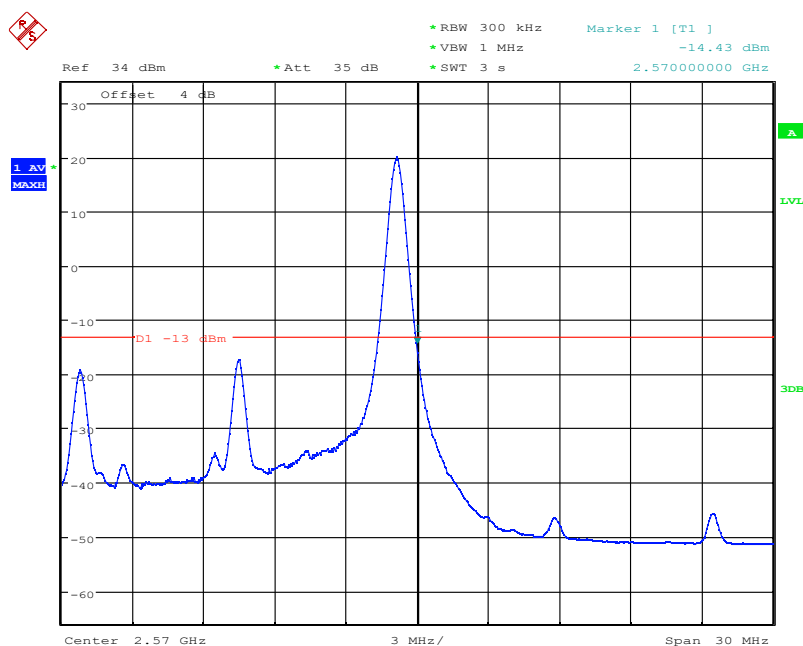
Date: 9.SEP.2021 15:56:09

LTE Band7, 15MHz bandwidth, 16QAM,(27,0) Mode , Below 2500MHz

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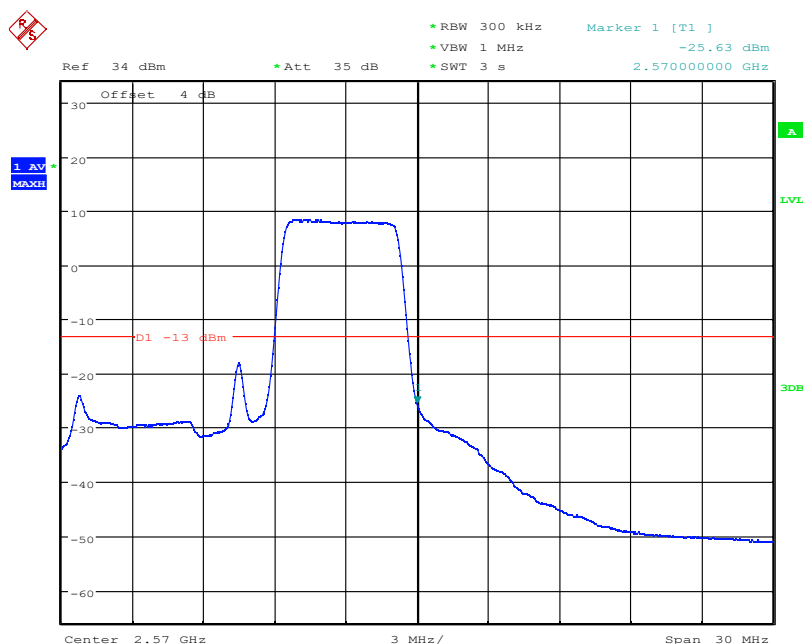
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I21W00031-WWAN_Rev3



Date: 8.SEP.2021 10:39:48

LTE Band7, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 2570MHz



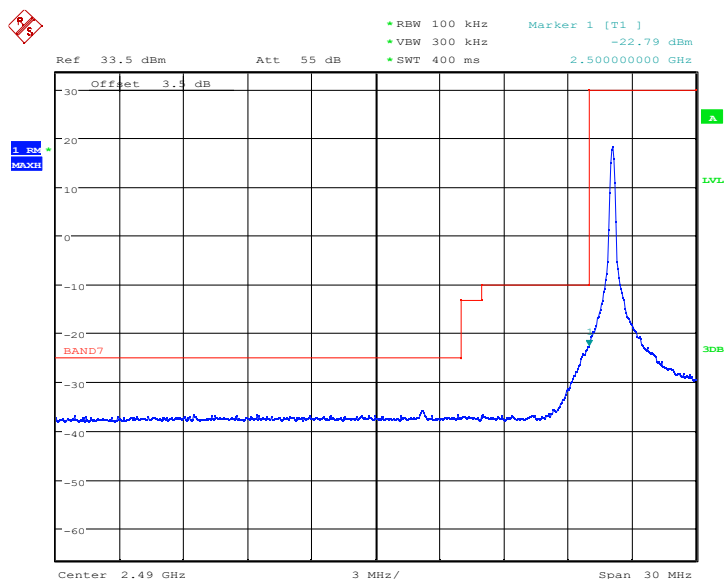
Date: 8.SEP.2021 10:40:09

LTE Band7, 15MHz bandwidth, 16QAM,(27,0) Mode, Above 2570MHz

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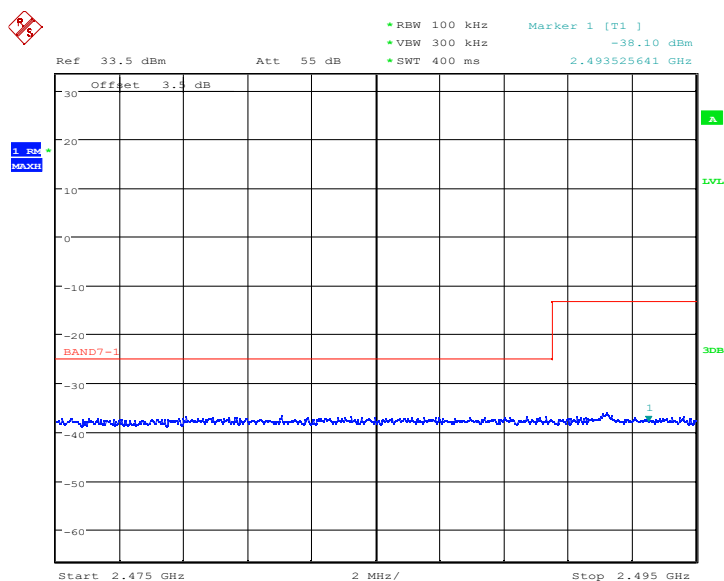
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:58:45

LTE Band7, 20MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz



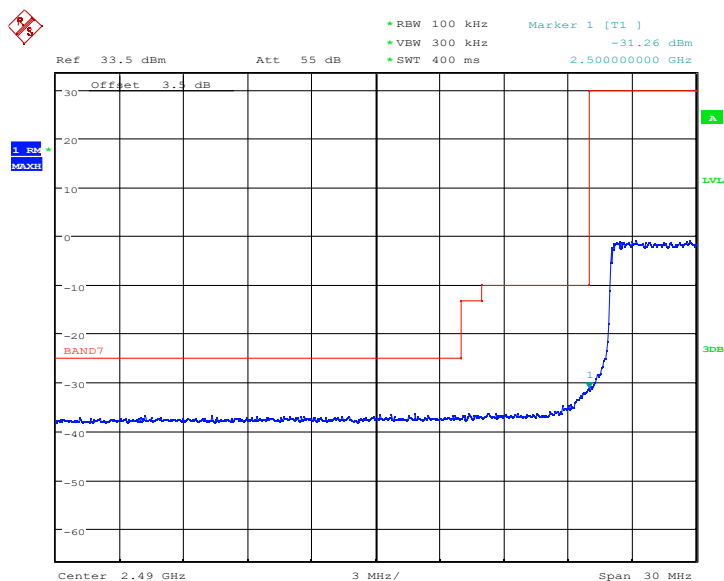
Date: 9.SEP.2021 16:00:12

LTE Band7, 20MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz

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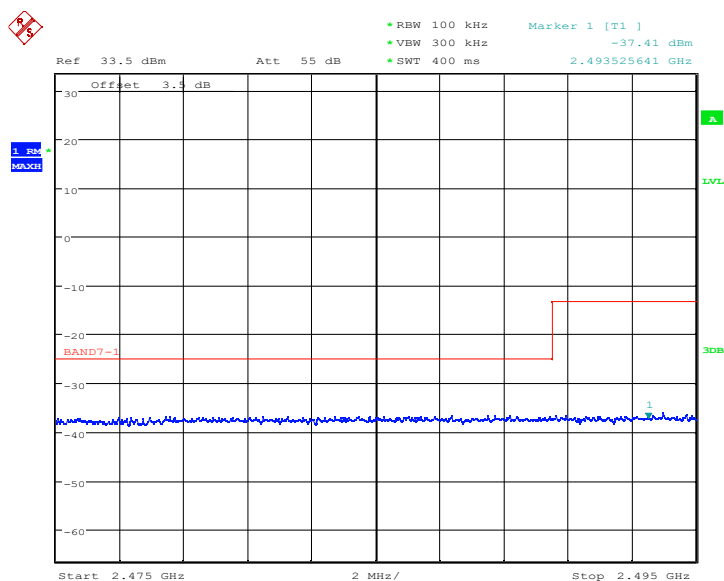
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:59:00

LTE Band7, 20MHz bandwidth, QPSK,(100,0) Mode , Below 2500MHz



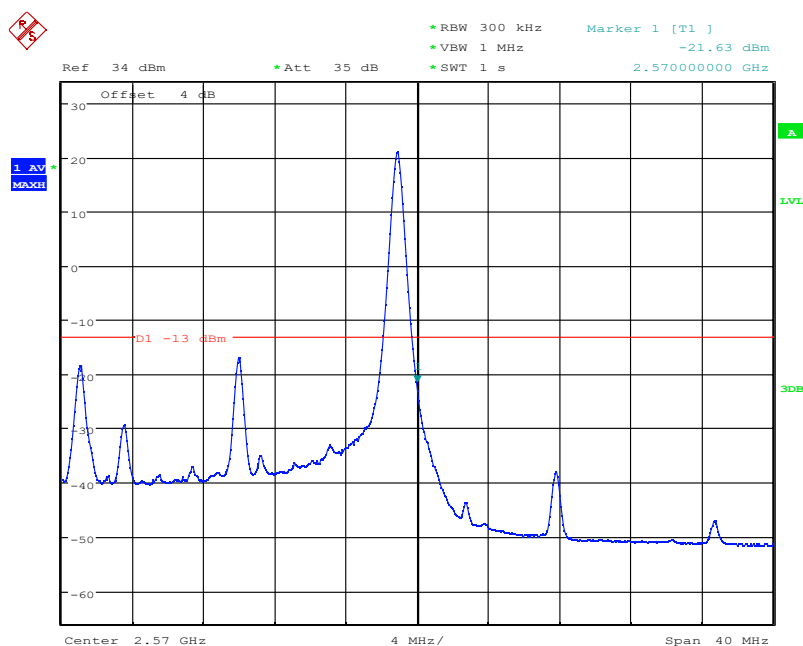
Date: 9.SEP.2021 16:00:24

LTE Band7, 20MHz bandwidth, QPSK,(100,0) Mode , Below 2500MHz

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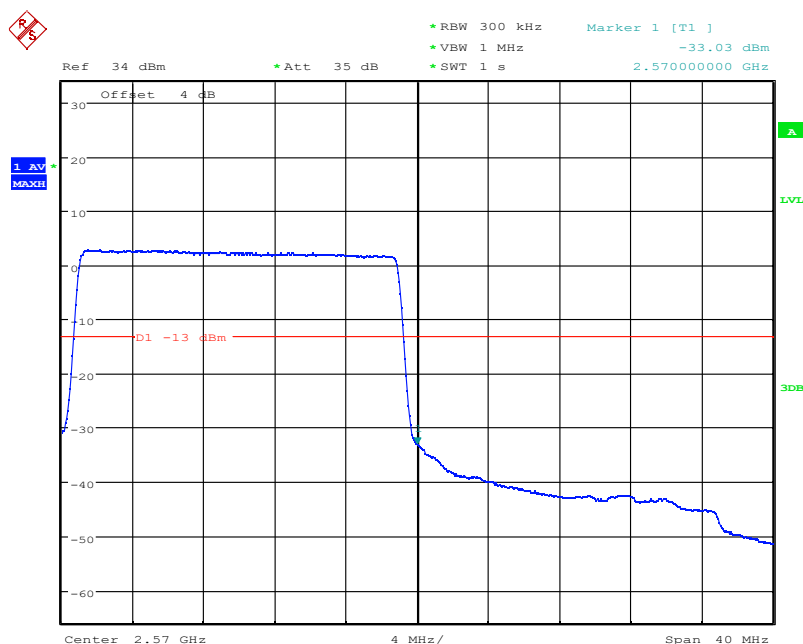
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 8.SEP.2021 10:49:14

LTE Band7, 20MHz bandwidth, QPSK,(1,100) Mode, Above 2570MHz



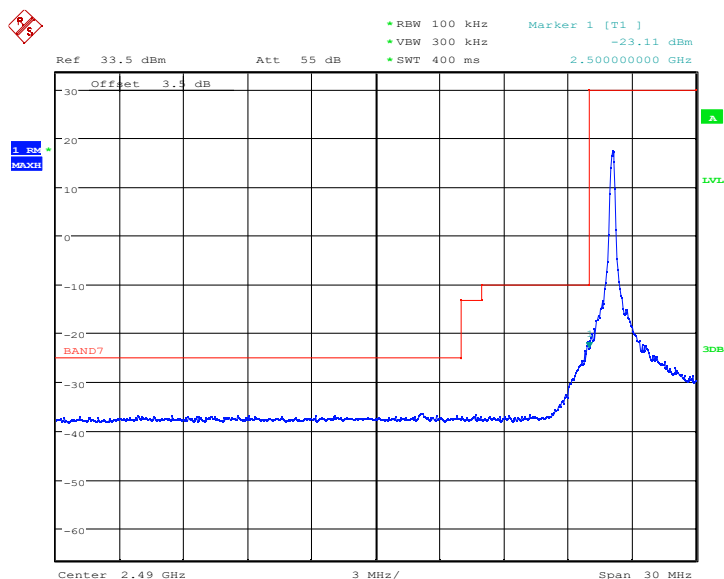
Date: 8.SEP.2021 10:49:26

LTE Band7, 20MHz bandwidth, QPSK,(100,0) Mode, Above 2570MHz

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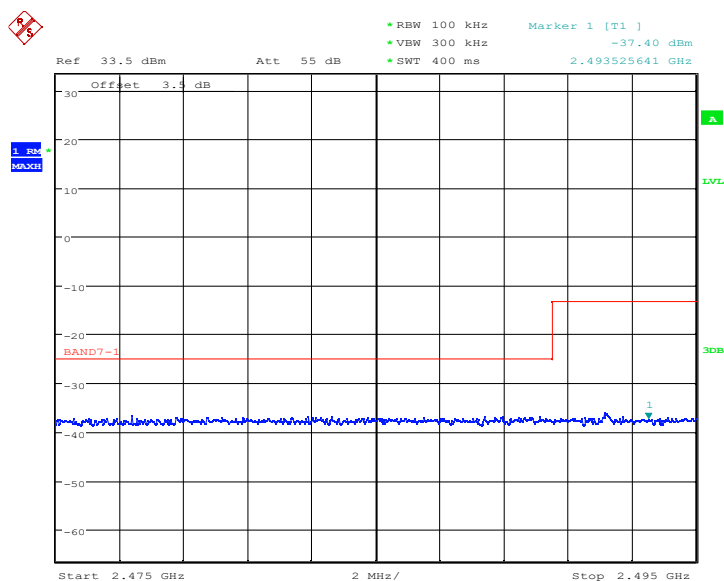
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:59:14

LTE Band7, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz



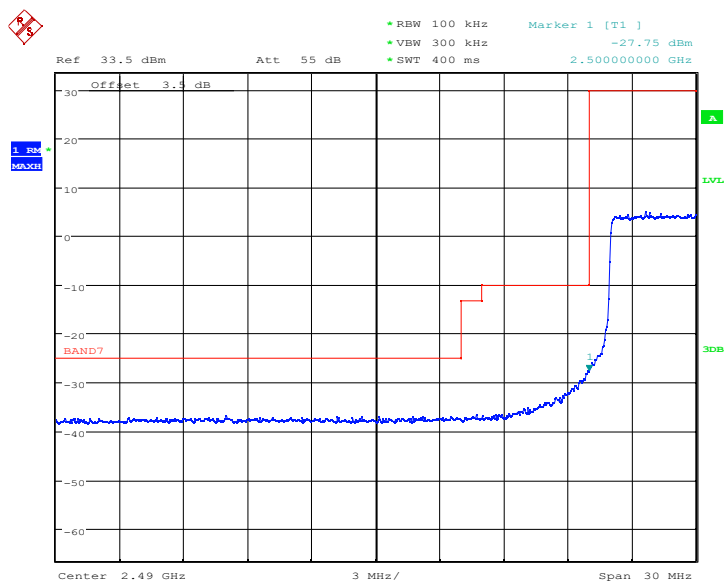
Date: 9.SEP.2021 16:00:02

LTE Band7, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz

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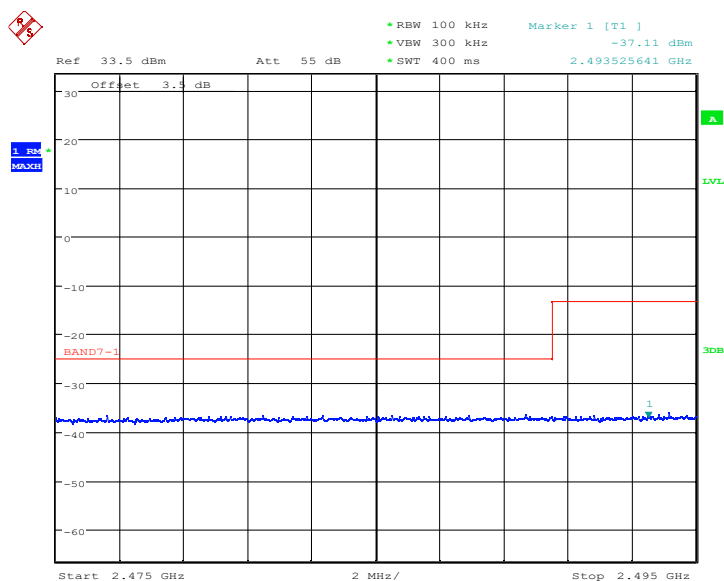
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 9.SEP.2021 15:59:26

LTE Band7, 20MHz bandwidth, 16QAM,(27,0) Mode , Below 2500MHz



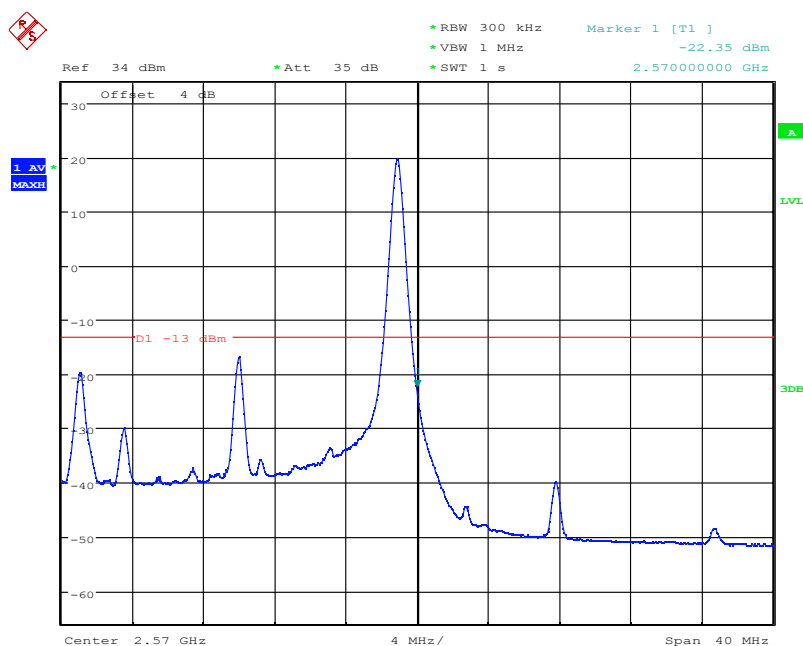
Date: 9.SEP.2021 15:59:52

LTE Band7, 20MHz bandwidth, 16QAM,(27,0) Mode , Below 2500MHz

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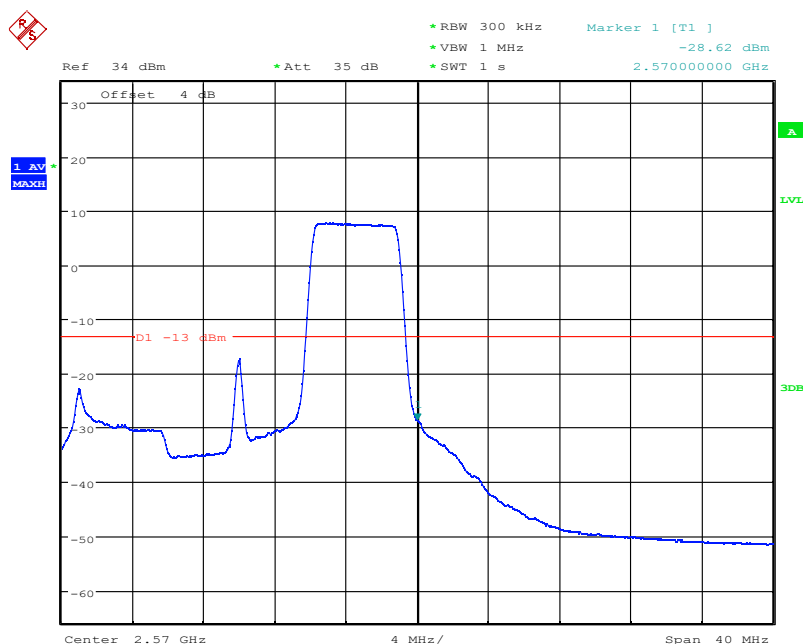
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I21W00031-WWAN_Rev3



Date: 8.SEP.2021 10:49:01

LTE Band7, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 2570MHz



Date: 8.SEP.2021 10:48:46

LTE Band7, 20MHz bandwidth, 16QAM,(27,0) Mode, Above 2570MHz

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Report No.: I21W00031-WWAN_Rev3

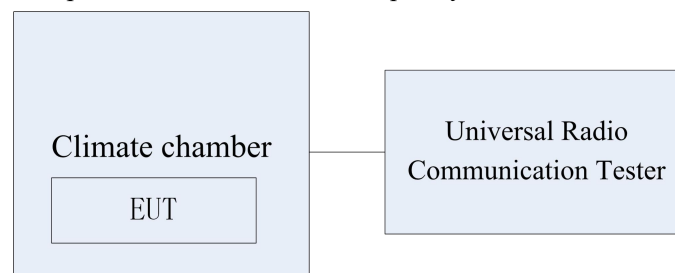
5.6 Frequency Stability over Temperature Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
IMEI Number:	863069057875503
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa
Test Results:	pass

Limit	
Frequency deviation [ppm]	±2.5

Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The Wireless Telecommunications Test Set was used to set the Tx channel and power level, modulate the TX signal with different bit patterns and measure the frequency of Tx.



Test Method

- 1、 The EUT was turned off and placed in the temperature chamber.
- 2、 The temperature of the chamber was set to -30°C and allowed to stabilize.
- 3、 The EUT temperature was allowed to stabilize for 45 minutes.
- 4、 The EUT was turned on and set to transmit with Wireless Telecommunications Test Set.
- 5、 The maximum transmit frequency deviation during one minute period was measured by Wireless Communications Test Set.
- 6、 The steps 3-5 were repeated for -30°C, -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

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Report No.: I21W00031-WWAN_Rev3**5.6.1 GSM Band Frequency Stability over Temperature Variation Results**

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
GSM850 GMSK	Hz	2.75	4.26	-1.98	3.78	2.52	-1.23	-3.29	-2.45	1.90
	ppm	0.003	0.005	-0.002	0.004	0.003	-0.001	-0.003	-0.002	0.002
PCS1900 GMSK	Hz	-4.37	-9.78	3.89	-1.98	5.49	-4.33	-10.9	-14.7	-13.9
	ppm	-0.002	-0.005	0.002	-0.001	0.002	-0.002	-0.005	-0.007	-0.007

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5.6.2 LTE Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
2	Hz	5.91	-3.58	-2.98	5.27	6.49	-2.11	4.57	5.83	-6.78
	ppm	0.003	-0.001	-0.001	0.003	0.003	-0.001	0.002	0.003	-0.003
4	Hz	-4.19	-7.82	1.59	1.87	6.39	-4.23	-4.96	3.87	-2.97
	ppm	-0.002	-0.004	0.001	0.001	0.004	-0.002	-0.003	0.002	-0.002
5	Hz	-7.41	9.47	-6.16	-6.31	-3.28	4.37	4.39	-7.48	-7.25
	ppm	-0.008	0.011	-0.007	-0.008	-0.004	0.005	0.005	-0.008	-0.009
7	Hz	3.25	-2.49	-6.18	-4.26	4.08	6.72	5.94	-3.26	2.75
	ppm	0.001	-0.001	-0.002	-0.001	0.001	0.002	0.002	-0.001	0.001

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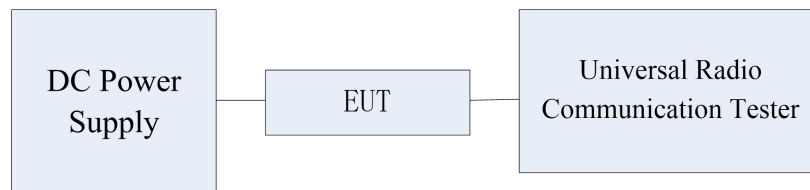
5.7 Frequency Stability over Voltage Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
IMEI Number:	863069057875503
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	pass

Limit	
Frequency deviation [ppm]	±2.5

Test Setup

The EUT was placed in a shielding chamber and powered by an adjustable power supply, demonstrated as figure V. A Wireless Telecommunications Test Set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.



Test Method

The EUT was powered by the adjustable power supply. The frequency stability is measured by the Wireless Telecommunications Test Set.

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5.7.1 GSM Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.40	3.80	4.20
GSM850 GMSK	Hz	2.37	4.29	-3.27
	ppm	0.003	0.005	-0.004
GSM850 8PSK	Hz	4.38	-3.92	-1.56
	ppm	0.005	-0.005	-0.002
PCS1900 GMSK	Hz	3.31	2.60	5.07
	ppm	0.002	0.001	0.003
PCS1900 8PSK	Hz	1.96	-4.47	-1.52
	ppm	0.001	-0.002	-0.001

5.7.2 LTE Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.40	3.80	4.20
2	Hz	5.41	3.18	1.09
	ppm	0.003	0.002	0.001
4	Hz	-2.77	-3.13	5.37
	ppm	-0.002	-0.002	0.003
5	Hz	4.51	1.59	2.93
	ppm	0.005	0.001	0.004
7	Hz	2.39	2.84	-4.10
	ppm	0.003	0.004	-0.006

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5.8 Peak to Average Ratio

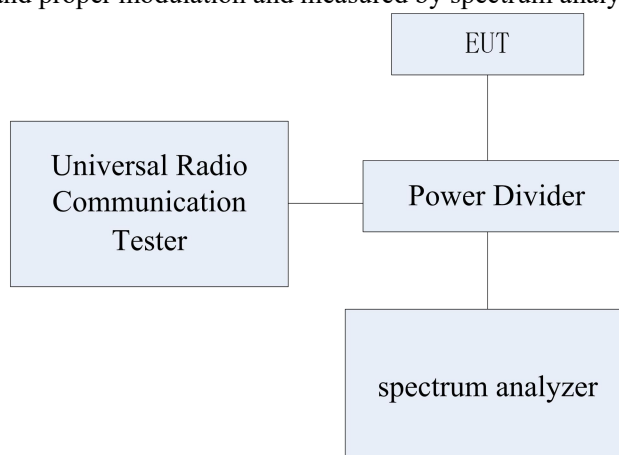
Specifications:	FCC Part 24.232, 27.50
IMEI Number:	863069057875503
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	pass

Limit

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

Test Setup

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



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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5.8.1 GSM850 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
836.6	190	GMSK	9.97

5.8.2 GSM1900 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1880	661	GMSK	9.87

5.8.3 LTE B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1880MHz	18900	10MHz	QPSK	5.54
			16QAM	5.87

5.8.4 LTE B4 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1732.5MHz	20175	10MHz	QPSK	5.35
			16QAM	6.06

5.8.5 LTE B5 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
836.5MHz	23525	10MHz	QPSK	5.42
			16QAM	6.57

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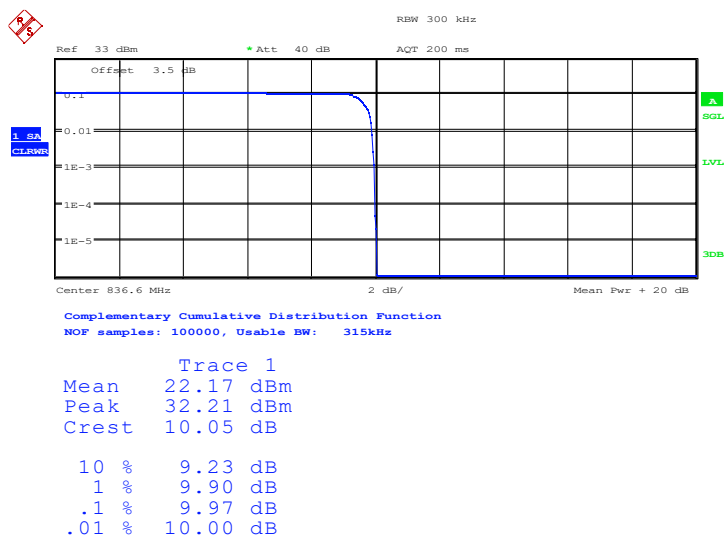
Report No.: I21W00031-WWAN_Rev3

5.8.6 LTE B7 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
2535MHz	21100	10MHz	QPSK	5.54
			16QAM	6.60

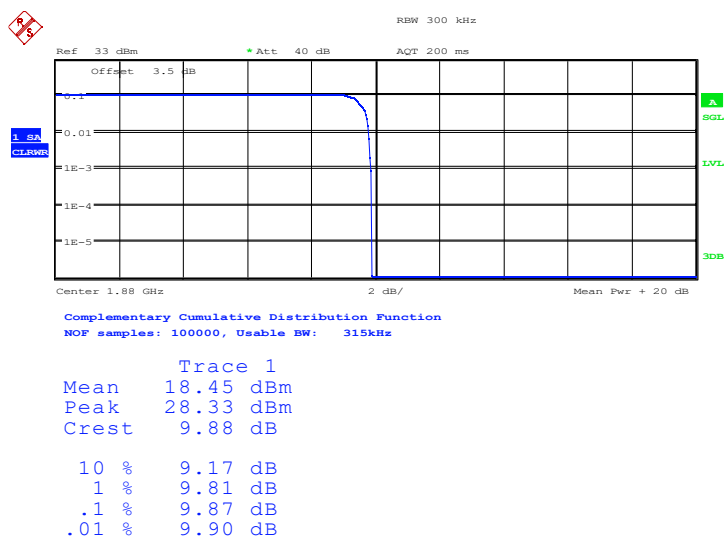
Report No.: I21W00031-WWAN_Rev3

Graphical for Peak to Average Ratio Results



Date: 6.SEP.2021 22:12:53

GSM850, GMSK



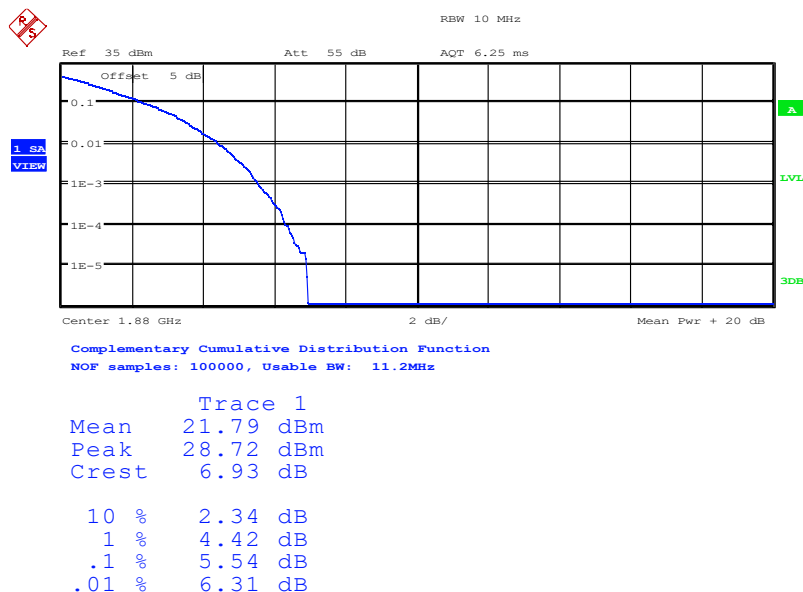
Date: 6.SEP.2021 22:13:47

PCS1900, GMSK

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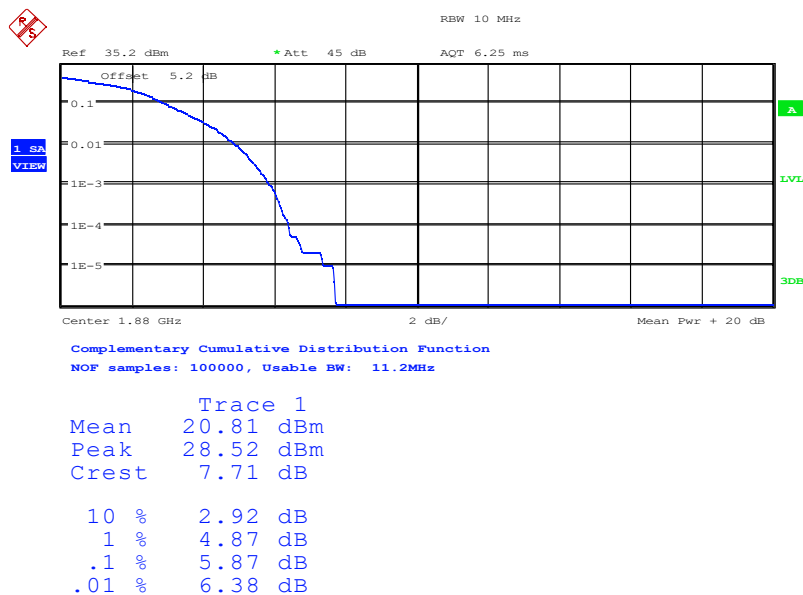
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Date: 31.AUG.2021 19:23:14

LTE Band2, QPSK



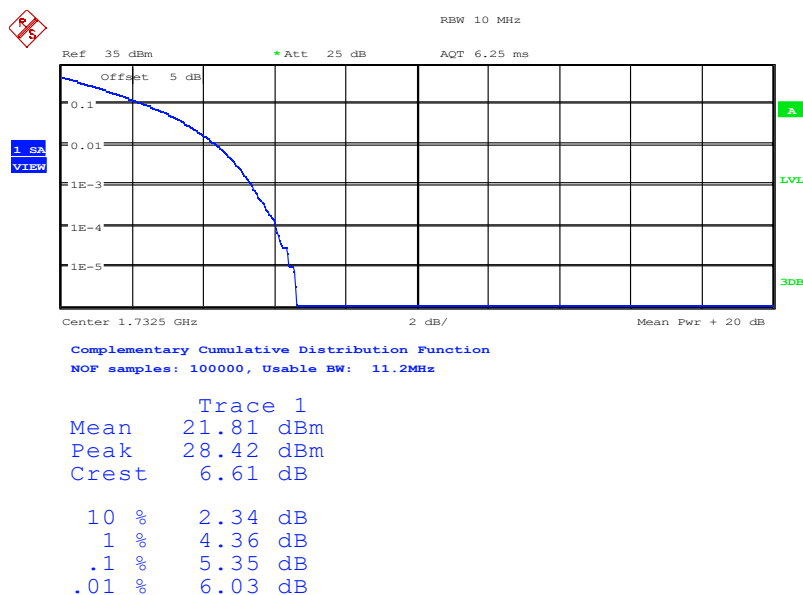
Date: 31.AUG.2021 23:09:27

LTE Band2, 16QAM

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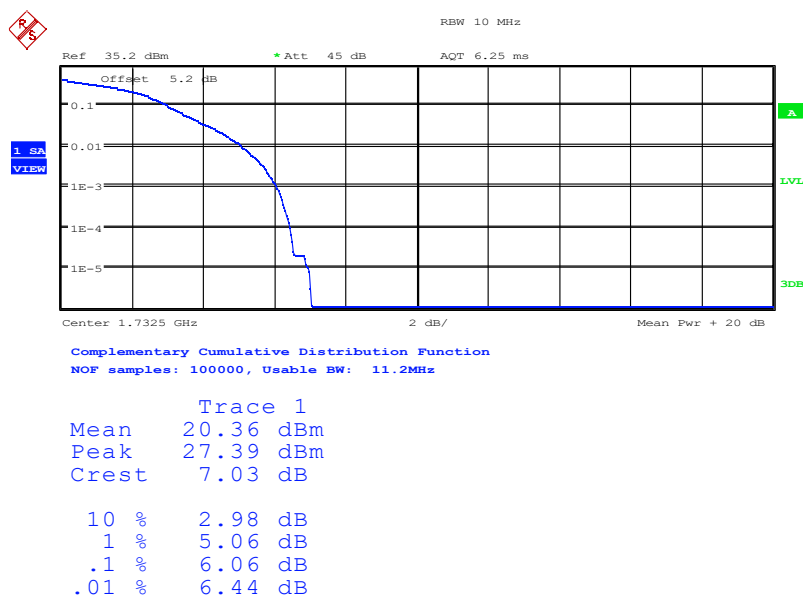
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Date: 31.AUG.2021 19:38:30

LTE Band4, QPSK



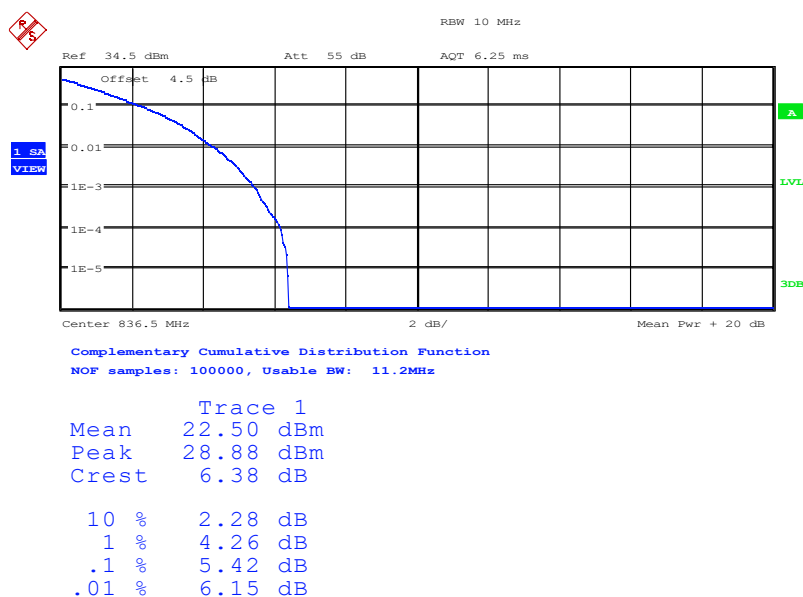
Date: 31.AUG.2021 23:08:50

LTE Band4, 16QAM

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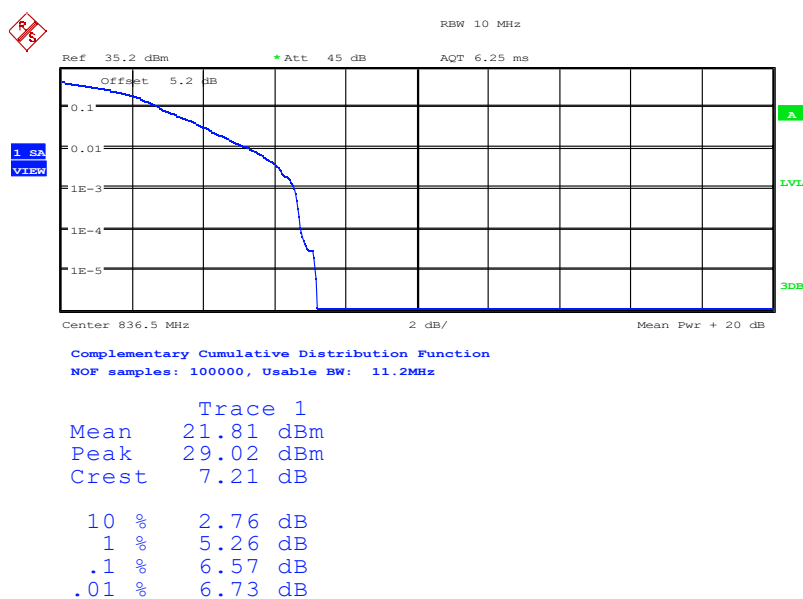
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Date: 31.AUG.2021 19:42:15

LTE Band5, QPSK



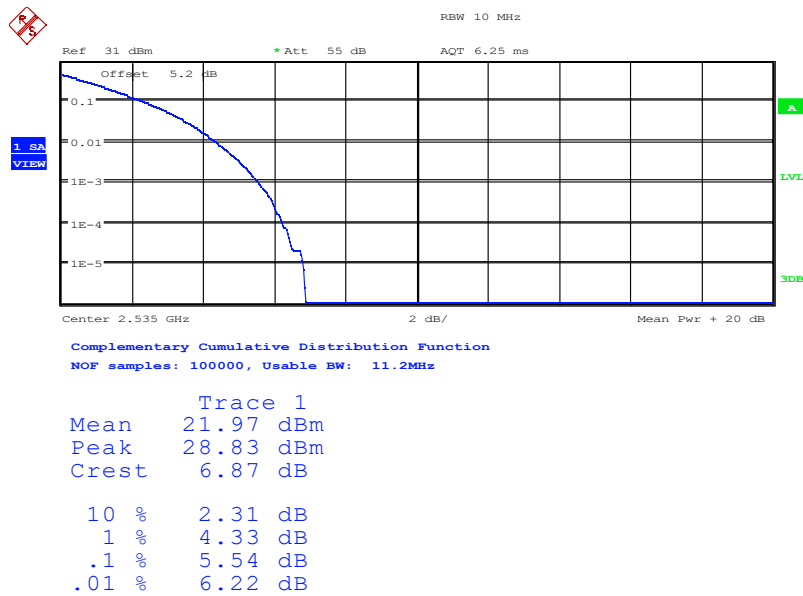
Date: 31.AUG.2021 23:07:58

LTE Band5, 16QAM

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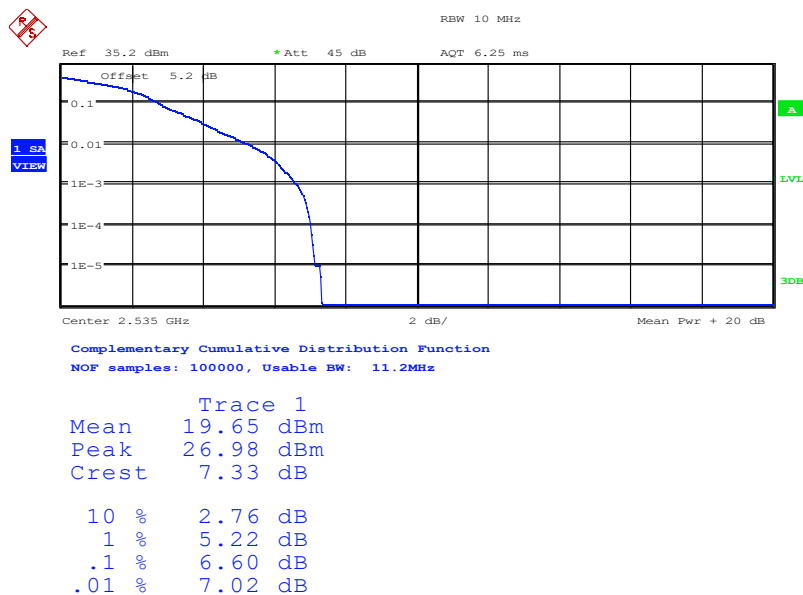
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Date: 31.AUG.2021 19:44:30

LTE Band7, QPSK



Date: 31.AUG.2021 23:07:01

LTE Band7, 16QAM

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5.9 ERP and EIRP

Specifications:	FCC Part 22.913(a), 24.232(b)
IMEI Number:	863069057875412
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	pass

Limit Level Construction:

This is the test for the maximum radiated power from the EUT.

According to Part 24.232(c),"Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power"and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

According to 22.913(a), The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

According to Part 27.50(d), "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

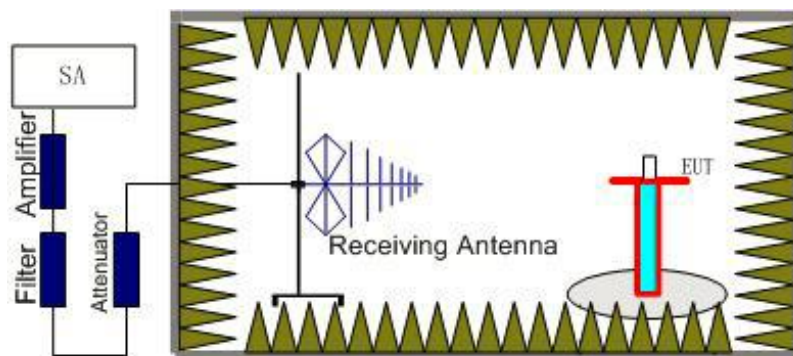
According to Part 27.50(h)(2) "Mobile stations are limited to 2.0 watts EIRP".

According to Part 27.50(c),specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP."

Method of Measurement

The measurements procedures in TIA-603E-2016 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from thereceive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUTfor emission measurements. The height of receiving antenna is 1.5m. The test setup refers tofigure below. Detected emissions were maximized at each frequency by rotating the EUTthrough 360° and adjusting the receiving antenna polarization. The radiated emissionmeasurements of all transmit frequencies in three channels (High, Middle, Low) weremeasured with peak detector.



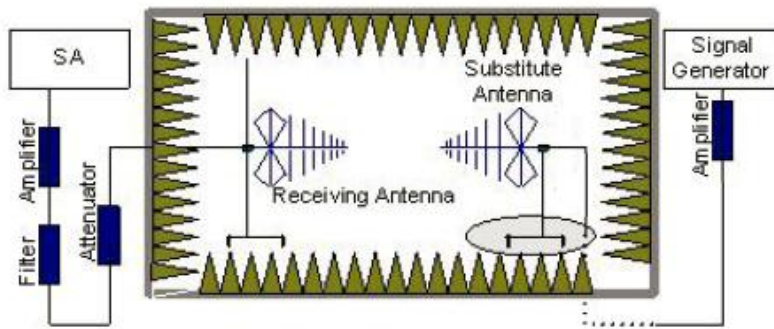
2. The EUT is then put into continuously transmitting mode at its maximum power level duringthe test. And the maximum value of the receiver should be recorded as (Pr).

3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.

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In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.

The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} + P_{Ag} - P_{cl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole,

$$\text{ERP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

$$\text{EIRP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$