8662.5	-70.9	0.9	11.2	-60.6	V
10395.0	-72.1	0.7	12.2	-60.6	V
12127.5	-70.2	0.6	12.2	-58.6	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	-67.9	7.0	8.9	-66.0	V
5257.2	-68.0	5.0	9.9	-63.1	V
7009.6	-72.2	1.2	11.9	-61.5	V
8762.0	-69.9	1.2	11.2	-59.9	V
10514.4	-71.6	0.6	12.2	-60.0	V
12266.8	-70.2	0.4	12.2	-58.4	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	-68.2	7.0	8.9	-66.3	V
5257.2	-69.2	5.0	9.9	-64.3	V
7009.6	-72.4	1.2	11.9	-61.7	V
8762.0	-69.8	1.2	11.2	-59.8	V
10514.4	-71.3	0.6	12.2	-59.7	V
12266.8	-70.3	0.4	12.2	-58.5	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	-68.2	6.9	8.9	-66.2	V
5145.0	-67.4	6.3	9.9	-63.8	V

6860.0	-72.7	0.8	11.9	-61.6	V
8575.0	-70.7	0.9	11.2	-60.4	V
10290.0	-72.1	0.5	12.0	-60.6	V
12005.0	-69.9	0.4	12.2	-58.1	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	-67.0	6.3	9.9	-63.4	V
6860.0	-72.2	0.8	11.9	-61.1	V
8575.0	-70.7	0.9	11.2	-60.4	V
10290.0	-72.0	0.5	12.0	-60.5	V
12005.0	-70.2	0.4	12.2	-58.4	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]
3465.0	-68.1	6.9	8.9	-66.1	V
5197.5	-67.8	5.8	9.9	-63.7	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	-72.0	0.7	12.2	-60.5	V
12127.5	-70.1	0.6	12.2	-58.5	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	-68.3	6.9	8.9	-66.3	V

5197.5	-67.9	5.8	9.9	-63.8	V
6930.0	-73.0	0.9	11.9	-62.0	V
8662.5	-70.5	0.9	11.2	-60.2	V
10395.0	-71.8	0.7	12.2	-60.3	V
12127.5	-70.2	0.6	12.2	-58.6	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	-68.6	7.0	8.9	-66.7	V
5249.7	-68.1	5.0	9.9	-63.2	V
6999.6	-73.1	0.9	11.9	-62.1	V
8749.5	-69.9	1.2	11.2	-59.9	V
10499.4	-71.6	0.6	12.2	-60.0	V
12249.3	-70.4	0.3	12.2	-58.5	V

Test Data （10MHz bandwidth 20349 16QAM 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	-68.2	7.0	8.9	-66.3	V
5249.7	-69.0	5.0	9.9	-64.1	V
6999.6	-73.2	0.9	11.9	-62.2	V
8749.5	-70.6	1.2	11.2	-60.6	V
10499.4	-71.2	0.6	12.2	-59.6	V
12249.3	-70.7	0.3	12.2	-58.8	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	-68.3	6.9	8.9	-66.3	V
5152.5	-66.7	6.3	9.9	-63.1	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	-72.1	0.7	12.2	-60.6	V
12022.5	-69.9	0.6	12.2	-58.3	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	-68.1	6.9	8.9	-66.1	V
5152.5	-66.8	6.3	9.9	-63.2	V
6870.0	-72.8	0.8	11.9	-61.7	V
8587.5	-70.8	0.9	11.2	-60.5	V
10305.0	-72.6	0.7	12.2	-61.1	V
12022.5	-69.9	0.6	12.2	-58.3	V

Test Data （15MHz 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	-68.6	6.9	8.9	-66.6	V
5197.5	-66.3	6.3	9.9	-62.7	V
6930.0	-72.4	0.8	11.9	-61.3	V
8662.5	-70.4	0.9	11.2	-60.1	V
10395.0	-72.2	0.7	12.2	-60.7	V
12127.5	-70.1	0.6	12.2	-58.5	V

Test Data （15MHz bandwidth 20175 16QAM Mode）

Frequency [MHz]	Generator output	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission	Antenna Polarization

	power(Pg) [dBm]			Power (Pd) [dBm]	[H/V]
3465.0	-68.0	6.9	8.9	-66.0	V
5197.5	-67.7	5.8	9.9	-63.6	V
6930.0	-73.0	0.9	11.9	-62.0	V
8662.5	-70.4	0.9	11.2	-60.1	V
10395.0	-72.0	0.7	12.2	-60.5	V
12127.5	-69.9	0.6	12.2	-58.3	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	-67.7	7.0	8.9	-65.8	V
5242.2	-68.6	5.0	9.9	-63.7	V
6989.6	-72.3	1.2	11.9	-61.6	V
8737.0	-69.8	1.2	11.2	-59.8	V
10484.4	-71.9	0.3	12.2	-60.0	V
12231.8	-70.4	0.3	12.2	-58.5	V

Test Data （15MHz bandwidth 20324 16QAM 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	-67.8	7.0	8.9	-65.9	V
5242.2	-67.8	5.0	9.9	-62.9	V
6989.6	-72.5	1.2	11.9	-61.8	V
8737.0	-69.9	1.2	11.2	-59.9	V
10484.4	-71.6	0.3	12.2	-59.7	V
12231.8	-70.3	0.3	12.2	-58.4	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	-67.9	6.9	8.9	-65.9	V
5160.0	-66.4	6.3	9.9	-62.8	V
6880.0	-72.9	0.8	11.9	-61.8	V
8600.0	-69.9	0.9	11.2	-59.6	V
10320.0	-72.4	0.7	12.2	-60.9	V
12040.0	-70.0	0.6	12.2	-58.4	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	-68.2	6.9	8.9	-66.2	V
5160.0	-66.2	6.3	9.9	-62.6	V
6880.0	-72.8	0.8	11.9	-61.7	V
8600.0	-70.1	0.9	11.2	-59.8	V
10320.0	-72.4	0.7	12.2	-60.9	V
12040.0	-70.1	0.6	12.2	-58.5	V

Test Data （20MHz 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	-68.2	6.9	8.9	-66.2	V
5197.5	-67.6	5.8	9.9	-63.5	V
6930.0	-73.4	0.9	11.9	-62.4	V
8662.5	-70.5	0.9	11.2	-60.2	V
10395.0	-71.8	0.7	12.2	-60.3	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	-68.6	6.9	8.9	-66.6	V
5197.5	-67.5	5.8	9.9	-63.4	V
6930.0	-73.2	0.9	11.9	-62.2	V
8662.5	-69.9	0.9	11.2	-59.6	V
10395.0	-72.3	0.7	12.2	-60.8	V
12127.5	-70.4	0.6	12.2	-58.8	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	-68.3	7.0	8.9	-66.4	V
5234.7	-68.6	5.0	9.9	-63.7	V
6979.6	-72.8	0.9	11.9	-61.8	V
8724.5	-70.0	1.2	11.2	-60.0	V
10469.4	-71.5	0.3	12.2	-59.6	V
12214.3	-70.5	0.3	12.2	-58.6	V

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	-68.2	7.0	8.9	-66.3	V
5234.7	-68.8	5.0	9.9	-63.9	V
6979.6	-73.6	0.9	11.9	-62.6	V
8724.5	-70.6	1.2	11.2	-60.6	V
10469.4	-71.8	0.3	12.2	-59.9	V

12214.3	-70.8	0.3	12.2	-58.9	V

6.6.3 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	-69.5	4.7	7.3	-66.9	V
2474.1	-61.3	6.0	6.8	-60.5	H
3298.8	-68.1	6.7	8.9	-65.9	V
4123.5	-65.7	7.6	9.2	-64.1	V
4948.2	-65.6	7.7	9.9	-63.4	V
5772.9	-72.5	1.4	10.5	-63.4	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	-69.7	4.7	7.3	-67.1	V
2474.1	-60.9	6.0	6.8	-60.1	H
3298.8	-68.3	6.7	8.9	-66.1	V
4123.5	-65.9	7.6	9.2	-64.3	V
4948.2	-66.0	7.7	9.9	-63.8	V
5772.9	-72.4	1.4	10.5	-63.3	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	-68.3	4.7	7.3	-65.7	H
2509.5	-61.0	5.9	6.7	-60.2	V

3346.0	-67.9	6.8	8.9	-65.8	V
4182.5	-65.4	7.8	9.2	-64.0	V
5019.0	-65.8	7.5	9.9	-63.4	V
5855.5	-72.2	1.1	10.5	-62.8	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	-68.7	4.7	7.3	-66.1	H
2509.5	-61.6	5.9	6.7	-60.8	V
3346.0	-67.7	6.8	8.9	-65.6	V
4182.5	-65.7	7.8	9.2	-64.3	V
5019.0	-65.7	7.5	9.9	-63.3	V
5855.5	-73.0	1.1	10.5	-63.6	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	-69.6	4.8	7.9	-66.5	V
2544.6	-60.8	5.9	6.9	-59.8	V
3392.8	-68.2	6.9	8.9	-66.2	V
4241.0	-66.2	7.8	9.2	-64.8	V
5089.2	-66.5	6.8	9.9	-63.4	V
5937.4	-72.3	1.4	10.9	-62.8	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	-69.3	4.8	7.9	-66.2	V

2544.6	-61.3	5.9	6.9	-60.3	V
3392.8	-68.0	6.9	8.9	-66.0	V
4241.0	-65.4	7.8	9.2	-64.0	V
5089.2	-66.8	6.8	9.9	-63.7	V
5937.4	-72.6	1.4	10.9	-63.1	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	-70.1	4.8	7.9	-67.0	V
2476.5	-61.2	5.9	6.9	-60.2	V
3302.0	-67.6	6.9	8.9	-65.6	V
4127.5	-66.1	7.8	9.2	-64.7	V
4953.0	-66.4	6.8	9.9	-63.3	V
5778.5	-72.8	1.4	10.9	-63.3	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	-69.8	4.8	7.9	-66.7	H
2476.5	-60.8	5.9	6.9	-59.8	H
3302.0	-68.1	6.9	8.9	-66.1	V
4127.5	-65.9	7.8	9.2	-64.5	V
4953.0	-65.3	6.8	9.9	-62.2	V
5778.5	-73.0	1.4	10.9	-63.5	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	-69.3	4.7	7.3	-66.7	H
2509.5	-61.8	5.9	6.7	-61.0	H
3346.0	-67.5	6.8	8.9	-65.4	V
4182.5	-65.4	7.8	9.2	-64.0	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 （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	-69.5	4.7	7.3	-66.9	H
2509.5	-61.6	5.9	6.7	-60.8	V
3346.0	-68.1	6.8	8.9	-66.0	V
4182.5	-65.9	7.8	9.2	-64.5	V
5019.0	-65.1	7.5	9.9	-62.7	V
5855.5	-72.9	1.1	10.5	-63.5	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]
1694.8	-69.0	4.8	8.0	-65.8	H
2542.2	-60.3	5.9	6.9	-59.3	H
3389.6	-68.4	6.9	8.9	-66.4	V
4237.0	-65.9	7.8	9.2	-64.5	V
5084.4	-67.2	6.8	9.9	-64.1	V
5931.8	-72.6	1.4	10.9	-63.1	V

Test Data （3MHz bandwidth 20634 16QAM Mode）

Frequency [MHz]	Generator output	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission	Antenna Polarization

	power(Pg) [dBm]			Power (Pd) [dBm]	[H/V]
1694.8	-69.3	4.8	8.0	-66.1	V
2542.2	-60.6	5.9	6.9	-59.6	V
3389.6	-68.3	6.9	8.9	-66.3	V
4237.0	-66.0	7.8	9.2	-64.6	V
5084.4	-67.1	6.8	9.9	-64.0	V
5931.8	-72.5	1.4	10.9	-63.0	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	-69.6	4.8	7.3	-67.1	H
2479.5	-61.1	5.9	6.6	-60.4	H
3306.0	-67.8	6.8	8.9	-65.7	V
4132.5	-65.7	7.6	9.2	-64.1	V
4959.0	-65.7	7.5	9.9	-63.3	V
5785.5	-72.7	1.4	10.5	-63.6	V

Test Data （5MHz bandwidth 20425 16QAM 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	-69.6	4.8	7.3	-67.1	V
2479.5	-60.6	5.9	6.6	-59.9	H
3306.0	-67.7	6.8	8.9	-65.6	V
4132.5	-66.3	7.6	9.2	-64.7	V
4959.0	-65.0	7.5	9.9	-62.6	V
5785.5	-72.5	1.4	10.5	-63.4	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	-69.0	4.7	7.3	-66.4	H
2509.5	-61.4	5.9	6.7	-60.6	H
3346.0	-67.9	6.8	8.9	-65.8	V
4182.5	-65.1	7.8	9.2	-63.7	V
5019.0	-65.8	7.5	9.9	-63.4	V
5855.5	-72.6	1.1	10.5	-63.2	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	-68.9	4.7	7.3	-66.3	V
2509.5	-61.3	5.9	6.7	-60.5	H
3346.0	-68.5	6.8	8.9	-66.4	V
4182.5	-65.6	7.8	9.2	-64.2	V
5019.0	-65.3	7.5	9.9	-62.9	V
5855.5	-72.3	1.1	10.5	-62.9	V

Test Data （5MHz bandwidth 20624 QPSK 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	-69.4	4.8	8.0	-66.2	H
2539.2	-60.8	5.9	6.9	-59.8	V
3385.6	-68.6	6.9	8.9	-66.6	V
4232.0	-66.2	7.8	9.2	-64.8	V
5078.4	-67.2	6.8	9.9	-64.1	V
5924.8	-72.3	1.4	10.9	-62.8	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	-70.1	4.8	8.0	-66.9	V
2539.2	-60.5	5.9	6.9	-59.5	V
3385.6	-68.2	6.9	8.9	-66.2	V
4232.0	-66.4	7.8	9.2	-65.0	V
5078.4	-66.7	6.8	9.9	-63.6	V
5924.8	-72.7	1.4	10.9	-63.2	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	-69.4	4.8	7.6	-66.6	H
2487.0	-61.0	5.9	6.6	-60.3	V
3316.0	-67.5	6.8	8.9	-65.4	V
4145.0	-65.8	7.6	9.2	-64.2	V
4974.0	-66.0	7.5	9.9	-63.6	V
5803.0	-72.7	1.4	10.9	-63.2	V

Test Data （10MHz bandwidth 20450 16QAM 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	-69.4	4.8	7.6	-66.6	V
2487.0	-61.1	5.9	6.6	-60.4	V
3316.0	-67.7	6.8	8.9	-65.6	V
4145.0	-65.5	7.6	9.2	-63.9	V
4974.0	-66.4	7.5	9.9	-64.0	V

5803.0	-72.8	1.4	10.9	-63.3	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	-68.7	4.7	7.3	-66.1	H
2509.5	-61.0	5.9	6.7	-60.2	V
3346.0	-68.3	6.8	8.9	-66.2	V
4182.5	-66.1	7.8	9.2	-64.7	V
5019.0	-65.6	7.5	9.9	-63.2	V
5855.5	-72.4	1.1	10.5	-63.0	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	-68.6	4.7	7.3	-66.0	H
2509.5	-61.6	5.9	6.7	-60.8	V
3346.0	-67.8	6.8	8.9	-65.7	V
4182.5	-65.7	7.8	9.2	-64.3	V
5019.0	-64.8	7.5	9.9	-62.4	V
5855.5	-71.5	1.1	10.5	-62.1	V

Test Data （10MHz bandwidth 20599 QPSK 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	-70.6	4.8	8.1	-67.3	V
2531.7	-60.4	5.9	6.9	-59.4	V
3375.6	-68.1	6.8	8.9	-66.0	V
4219.5	-66.2	7.8	9.2	-64.8	V

5063.4	-66.5	7.1	9.9	-63.7	V
5907.3	-72.8	1.4	10.9	-63.3	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	-70.2	4.8	8.1	-66.9	H
2531.7	-61.0	5.9	6.9	-60.0	V
3375.6	-68.3	6.8	8.9	-66.2	V
4219.5	-65.9	7.8	9.2	-64.5	V
5063.4	-66.4	7.1	9.9	-63.6	V
5907.3	-73.0	1.4	10.9	-63.5	V

6.6.4 LTE B12 Radiated Spurious Emission Results

Test Data （1.4MHz bandwidth 23017 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1399.4	-72.5	4.4	7.8	-69.1	H
2099.1	-66.9	5.4	8.3	-64.0	H
2798.8	-60.1	6.2	7.9	-58.4	V
3498.5	-68.7	7.0	8.9	-66.8	V
4198.2	-66.0	7.8	9.2	-64.6	V
4897.9	-66.2	7.8	9.9	-64.1	V

Test Data （1.4MHz bandwidth 23017 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1399.4	-72.4	4.4	7.8	-69.0	H

2099.1	-66.0	5.4	8.3	-63.1	H
2798.8	-60.4	6.2	7.9	-58.7	V
3498.5	-68.2	7.0	8.9	-66.3	V
4198.2	-65.5	7.8	9.2	-64.1	V
4897.9	-65.7	7.8	9.9	-63.6	V

Test Data （1.4MHz bandwidth 23095 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-72.7	4.4	8.3	-68.8	H
2122.5	-66.2	5.4	8.1	-63.5	H
2830.0	-60.0	6.3	7.5	-58.8	V
3537.5	-68.2	7.0	8.9	-66.3	V
4245.0	-65.1	7.8	9.2	-63.7	V
4952.5	-66.0	7.7	9.9	-63.8	V

Test Data （1.4MHz bandwidth 23095 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-73.0	4.4	8.3	-69.1	H
2122.5	-66.2	5.4	8.1	-63.5	H
2830.0	-59.8	6.3	7.5	-58.6	V
3537.5	-68.4	7.0	8.9	-66.5	V
4245.0	-66.2	7.8	9.2	-64.8	V
4952.5	-65.6	7.7	9.9	-63.4	V

Test Data （1.4MHz bandwidth 23172 QPSK Mode）

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

1430.4	-72.3	4.4	8.2	-68.5	V
2145.6	-64.7	5.4	7.0	-63.1	V
2860.8	-60.0	6.5	8.0	-58.5	H
3576.0	-68.2	7.2	8.9	-66.5	V
4381.2	-66.4	7.8	9.5	-64.7	V
5006.4	-64.8	7.5	9.9	-62.4	V

Test Data （1.4MHz bandwidth 23172 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1430.4	-72.0	4.4	8.2	-68.2	H
2145.6	-64.9	5.4	7.0	-63.3	H
2860.8	-60.1	6.5	8.0	-58.6	V
3576.0	-67.3	7.2	8.9	-65.6	V
4381.2	-65.2	7.8	9.5	-63.5	V
5006.4	-65.9	7.5	9.9	-63.5	V

Test Data （3MHz bandwidth 23025 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1401.0	-72.6	4.4	7.8	-69.2	H
2101.5	-67.0	5.4	8.3	-64.1	H
2802.0	-60.5	6.2	8.0	-58.7	V
3502.5	-68.0	7.0	8.9	-66.1	V
4203.0	-65.6	7.8	9.2	-64.2	V
4903.5	-65.0	7.8	9.9	-62.9	V

Test Data （3MHz bandwidth 23025 16QAM Mode）

Frequency [MHz]	Generator output	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission	Antenna Polarization

	power(Pg) [dBm]			Power (Pd) [dBm]	[H/V]
1401.0	-71.5	4.4	7.8	-68.1	H
2101.5	-66.6	5.4	8.3	-63.7	H
2802.0	-60.4	6.2	8.0	-58.6	H
3502.5	-68.3	7.0	8.9	-66.4	V
4203.0	-66.0	7.8	9.2	-64.6	V
4903.5	-64.8	7.8	9.9	-62.7	V

Test Data （3MHz bandwidth 23095 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-72.1	4.4	8.3	-68.2	V
2122.5	-66.3	5.4	8.1	-63.6	H
2830.0	-59.8	6.3	7.5	-58.6	H
3537.5	-68.4	7.0	8.9	-66.5	V
4245.0	-65.6	7.8	9.2	-64.2	V
4952.5	-65.7	7.7	9.9	-63.5	V

Test Data （3MHz bandwidth 23095 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-72.9	4.4	8.3	-69.0	V
2122.5	-65.5	5.4	8.1	-62.8	H
2830.0	-59.8	6.3	7.5	-58.6	H
3537.5	-68.4	7.0	8.9	-66.5	V
4245.0	-66.1	7.8	9.2	-64.7	V
4952.5	-65.6	7.7	9.9	-63.4	V

Test Data （3MHz bandwidth 23164 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1428.8	-71.8	4.4	8.3	-67.9	H
2143.2	-66.0	5.4	8.1	-63.3	H
2857.6	-60.4	6.3	7.5	-59.2	H
3572.0	-67.8	7.0	8.9	-65.9	V
4286.4	-65.4	7.8	9.2	-64.0	V
5000.8	-65.4	7.7	9.9	-63.2	V

Test Data （3MHz bandwidth 23164 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1428.8	-72.4	4.4	8.3	-68.5	V
2143.2	-65.2	5.4	8.1	-62.5	H
2857.6	-59.7	6.3	7.5	-58.5	V
3572.0	-67.8	7.0	8.9	-65.9	V
4286.4	-65.9	7.8	9.2	-64.5	V
5000.8	-64.6	7.7	9.9	-62.4	V

Test Data （5MHz bandwidth 23035 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1403.0	-72.1	4.4	8.3	-68.2	H
2104.5	-65.3	5.4	6.6	-64.1	V
2806.0	-60.2	6.4	8.0	-58.6	H
3507.5	-68.3	7.2	8.9	-66.6	V
4209.0	-65.7	7.8	9.5	-64.0	V
4910.5	-65.2	7.5	9.9	-62.8	V

Test Data （5MHz bandwidth 23035 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1403.0	-73.0	4.4	8.3	-69.1	H
2104.5	-64.7	5.4	6.6	-63.5	H
2806.0	-59.7	6.4	8.0	-58.1	H
3507.5	-68.0	7.2	8.9	-66.3	V
4209.0	-65.5	7.8	9.5	-63.8	V
4910.5	-64.9	7.5	9.9	-62.5	V

Test Data （5MHz bandwidth 23095 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-72.5	4.4	8.3	-68.6	H
2122.5	-65.6	5.4	8.1	-62.9	H
2830.0	-59.1	6.3	7.5	-57.9	H
3537.5	-67.6	7.0	8.9	-65.7	V
4245.0	-64.8	7.8	9.2	-63.4	V
4952.5	-65.0	7.7	9.9	-62.8	V

Test Data （5MHz bandwidth 23095 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-72.9	4.4	8.3	-69.0	V
2122.5	-66.0	5.4	8.1	-63.3	H
2830.0	-59.9	6.3	7.5	-58.7	V
3537.5	-68.1	7.0	8.9	-66.2	V
4245.0	-65.7	7.8	9.2	-64.3	V

4952.5	-65.4	7.7	9.9	-63.2	V

Test Data （5MHz bandwidth 23154 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1426.8	-72.2	4.4	8.3	-68.3	V
2140.2	-63.7	5.4	7.0	-62.1	H
2853.6	-60.1	6.4	8.0	-58.5	H
3567.0	-67.9	7.0	8.9	-66.0	V
4280.4	-65.7	7.8	9.5	-64.0	V
4993.8	-65.6	7.5	9.9	-63.2	V

Test Data （5MHz bandwidth 23154 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1426.8	-72.3	4.4	8.3	-68.4	H
2140.2	-65.0	5.4	7.0	-63.4	H
2853.6	-60.1	6.4	8.0	-58.5	H
3567.0	-67.9	7.0	8.9	-66.0	V
4280.4	-64.6	7.8	9.5	-62.9	V
4993.8	-65.3	7.5	9.9	-62.9	V

Test Data （10MHz bandwidth 23060 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1408.0	-72.8	4.4	7.8	-69.4	H
2112.0	-66.8	5.4	8.3	-63.9	V
2816.0	-60.1	6.3	7.5	-58.9	V
3520.0	-67.7	7.0	8.9	-65.8	V

4224.0	-65.4	7.8	9.2	-64.0	V
4928.0	-65.5	7.7	9.9	-63.3	V

Test Data （10MHz bandwidth 23060 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1408.0	-72.0	4.4	7.8	-68.6	H
2112.0	-66.5	5.4	8.3	-63.6	H
2816.0	-59.8	6.3	7.5	-58.6	H
3520.0	-68.0	7.0	8.9	-66.1	V
4224.0	-66.1	7.8	9.2	-64.7	V
4928.0	-65.3	7.7	9.9	-63.1	V

Test Data （10MHz bandwidth 23095 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-72.9	4.4	8.3	-69.0	H
2122.5	-65.7	5.4	8.1	-63.0	H
2830.0	-60.0	6.3	7.5	-58.8	H
3537.5	-68.2	7.0	8.9	-66.3	V
4245.0	-64.9	7.8	9.2	-63.5	V
4952.5	-64.5	7.7	9.9	-62.3	V

Test Data （10MHz bandwidth 23095 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-72.8	4.4	8.3	-68.9	V
2122.5	-65.9	5.4	8.1	-63.2	H
2830.0	-59.9	6.3	7.5	-58.7	H

3537.5	-67.9	7.0	8.9	-66.0	V
4245.0	-66.0	7.8	9.2	-64.6	V
4952.5	-65.8	7.7	9.9	-63.6	V

Test Data （10MHz bandwidth 23129 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1421.8	-72.3	4.4	8.3	-68.4	V
2132.7	-63.7	5.4	7.0	-62.1	H
2843.6	-60.9	6.3	8.2	-59.0	V
3554.5	-68.1	7.0	8.9	-66.2	V
4265.4	-66.0	7.8	9.5	-64.3	V
4976.3	-65.0	7.5	9.9	-62.6	V

Test Data （10MHz bandwidth 23129 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1421.8	-73.1	4.4	8.3	-69.2	H
2132.7	-64.9	5.4	7.0	-63.3	H
2843.6	-60.5	6.3	8.2	-58.6	V
3554.5	-67.9	7.0	8.9	-66.0	V
4265.4	-65.1	7.8	9.5	-63.4	V
4976.3	60.8	7.5	9.9	63.2	V

6.6.5 LTE B13 Radiated Spurious Emission Results

Test Data （5MHz bandwidth 23205 QPSK Mode）

Frequency [MHz]	Generator output power(Pg)	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd)	Antenna Polarization [H/V]

	[dBm]			[dBm]	
1559.0	-71.4	4.6	8.5	-67.5	V
2338.5	-62.3	5.6	6.6	-61.3	H
3118.0	-68.8	6.6	8.9	-66.5	V
3897.5	-65.7	7.4	9.2	-63.9	V
4677.0	-64.9	8.1	9.5	-63.5	V
5456.5	-70.6	2.9	10.5	-63.0	V

Test Data （5MHz bandwidth 23205 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1559.0	-71.2	4.6	8.5	-67.3	V
2338.5	-62.5	5.6	6.6	-61.5	V
3118.0	-68.8	6.6	8.9	-66.5	V
3897.5	-65.4	7.4	9.2	-63.6	V
4677.0	-65.1	8.1	9.5	-63.7	V
5456.5	-71.3	2.9	10.5	-63.7	V

Test Data （5MHz bandwidth 23230 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-70.9	4.6	8.5	-67.0	V
2346.0	-63.1	5.6	8.1	-60.6	H
3128.0	-68.2	6.6	8.9	-65.9	V
3910.0	-65.5	7.5	9.2	-63.8	V
4692.0	-65.9	8.1	9.5	-64.5	V
5474.0	-70.8	2.9	10.5	-63.2	V

Test Data （5MHz bandwidth 23230 16QAM Mode）

Frequency	Generator	Cable loss	Antenna	Spurious	Antenna

[MHz]	output power(Pg) [dBm]	[dB]	Gain [dB]	Emission Power (Pd) [dBm]	Polarization [H/V]
1564.0	-71.2	4.6	8.5	-67.3	V
2346.0	-63.8	5.6	8.1	-61.3	V
3128.0	-68.2	6.6	8.9	-65.9	V
3910.0	-64.8	7.5	9.2	-63.1	V
4692.0	-64.6	8.1	9.5	-63.2	V
5474.0	-70.3	2.9	10.5	-62.7	V

Test Data （5MHz bandwidth 23254 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1568.8	-71.7	4.6	9.1	-67.2	H
2353.2	-62.6	5.7	7.4	-60.9	H
3137.6	-68.9	6.5	8.9	-66.5	V
3922.0	-65.1	7.5	9.2	-63.4	V
4706.4	-66.3	8.1	9.5	-64.9	V
5490.8	-71.1	2.5	10.5	-63.1	V

Test Data （5MHz bandwidth 23254 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1568.8	-71.6	4.6	9.1	-67.1	H
2353.2	-62.6	5.7	7.4	-60.9	H
3137.6	-69.4	6.5	8.9	-67.0	V
3922.0	-65.9	7.5	9.2	-64.2	V
4706.4	-65.2	8.1	9.5	-63.8	V
5490.8	-71.7	2.5	10.5	-63.7	V

Test Data （10MHz bandwidth 23230 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-71.5	4.6	8.5	-67.6	V
2346.0	-63.0	5.6	8.1	-60.5	V
3128.0	-68.4	6.6	8.9	-66.1	V
3910.0	-65.8	7.5	9.2	-64.1	V
4692.0	-65.0	8.1	9.5	-63.6	V
5474.0	-70.9	2.9	10.5	-63.3	V

Test Data （10MHz bandwidth 23230 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-71.5	4.6	8.5	-67.6	H
2346.0	-63.0	5.6	8.1	-60.5	H
3128.0	-68.2	6.6	8.9	-65.9	V
3910.0	-65.5	7.5	9.2	-63.8	V
4692.0	-64.9	8.1	9.5	-63.5	V
5474.0	-70.8	2.9	10.5	-63.2	V

Test Data （10MHz bandwidth 23229 QPSK Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1563.8	-71.5	4.6	8.5	-67.6	V
2345.7	-63.0	5.6	8.1	-60.5	V
3127.6	-68.4	6.6	8.9	-66.1	V
3909.5	-65.8	7.5	9.2	-64.1	V
4691.4	-65.0	8.1	9.5	-63.6	V

5473.3	-70.9	2.9	10.5	-63.3	V

Test Data （10MHz bandwidth 23229 16QAM Mode）

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1563.8	-71.5	4.6	8.5	-67.6	H
2345.7	-63.0	5.6	8.1	-60.5	H
3127.6	-68.2	6.6	8.9	-65.9	V
3909.5	-65.5	7.5	9.2	-63.8	V
4691.4	-64.9	8.1	9.5	-63.5	V
5473.3	-70.8	2.9	10.5	-63.2	V

6.7. Band Edge

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
DUT Serial Number:	860710050007536
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(dBm)– (43 + 10 log(P)) dB= -13dBm.

According to Part 27.53(h):

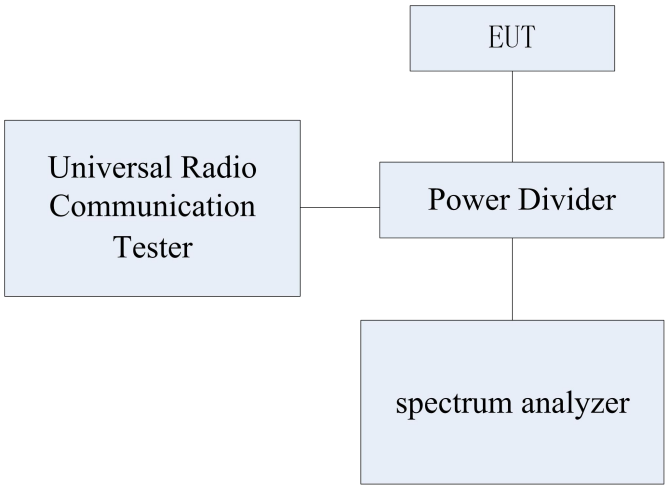
Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10(P) dB.

According to Part 27.53(g):

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

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:

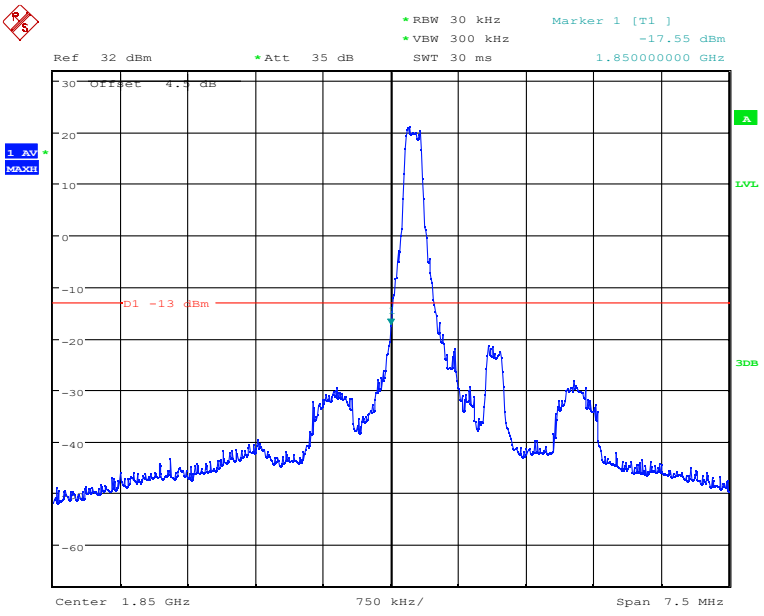
1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The lost of the cables the test system is calibrated to correct the readings.

2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.

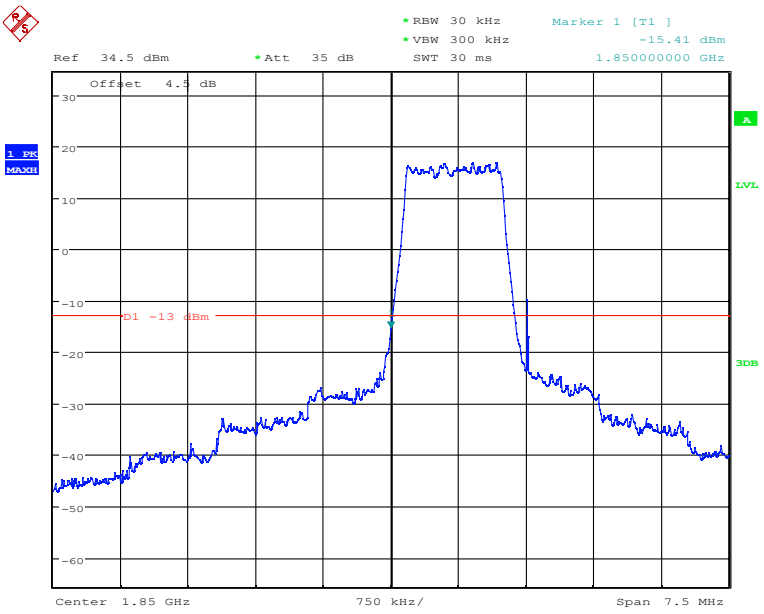
3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission Bandwidth.

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

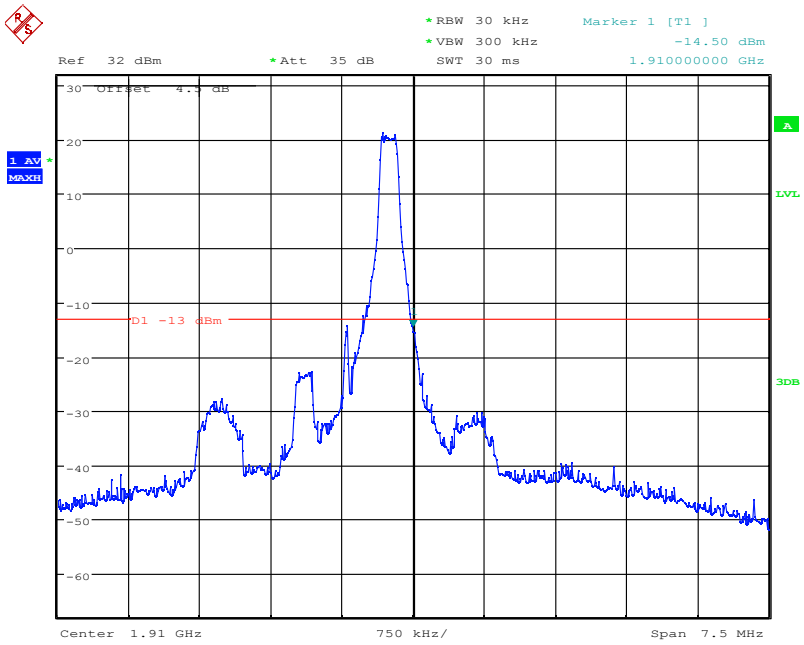
6.7.1 LTE B2 Band Edge Results



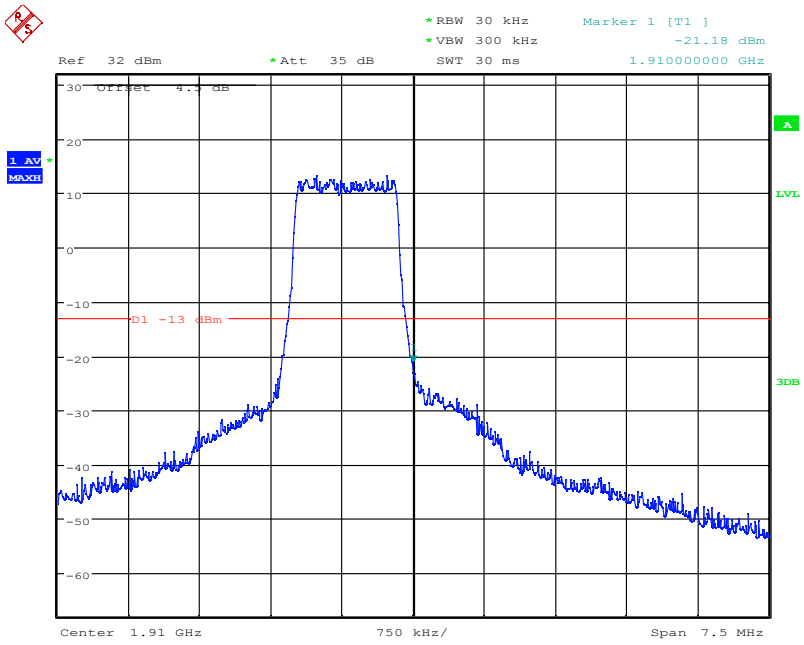
LTE Band2, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



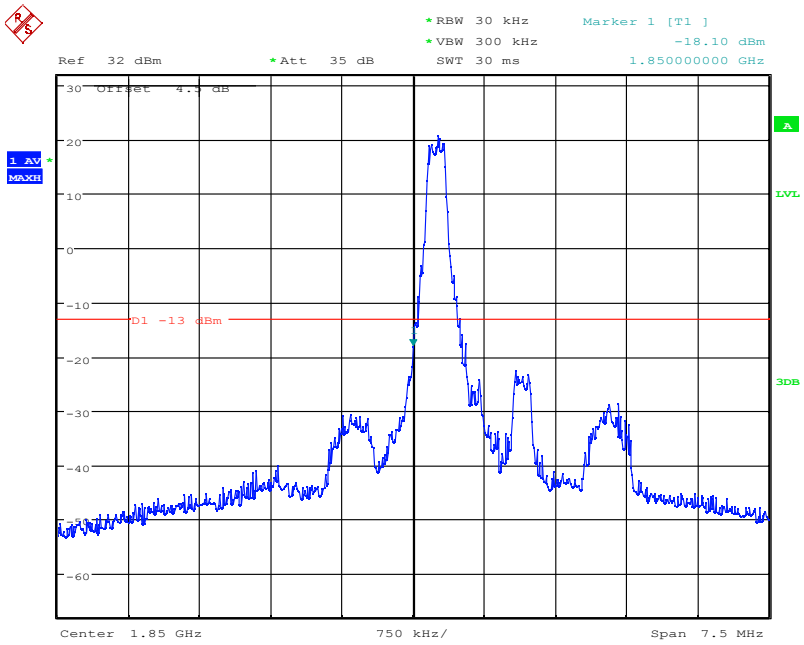
LTE Band2, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 1850MHz



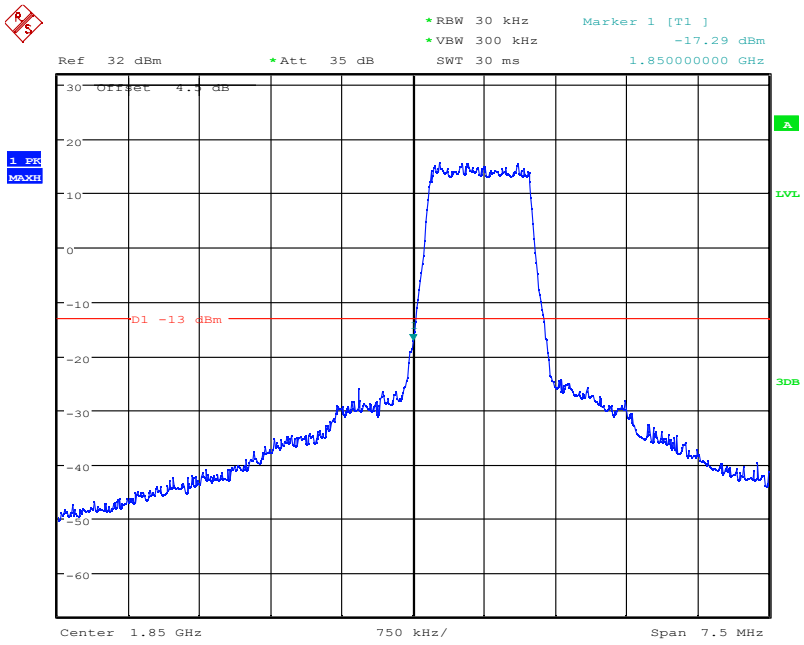
LTE Band2, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1910MHz



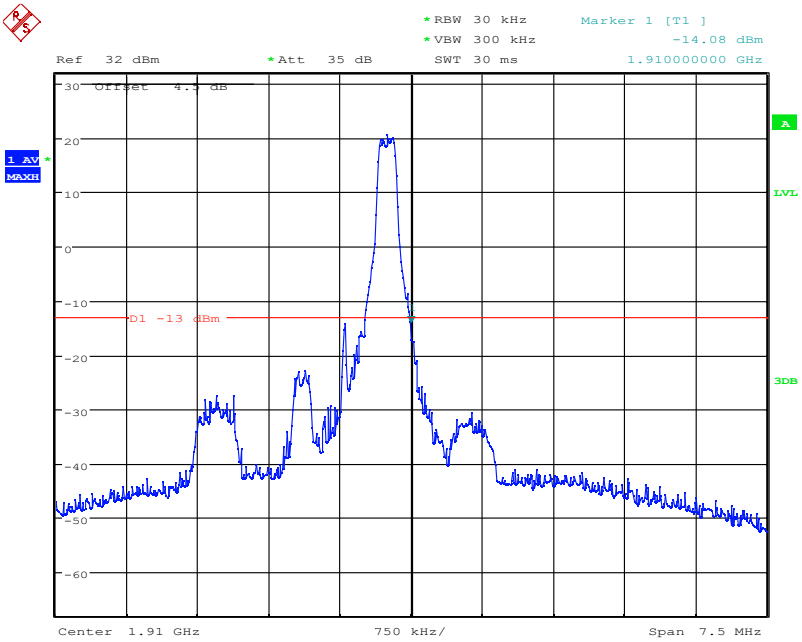
LTE Band2, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1910MHz



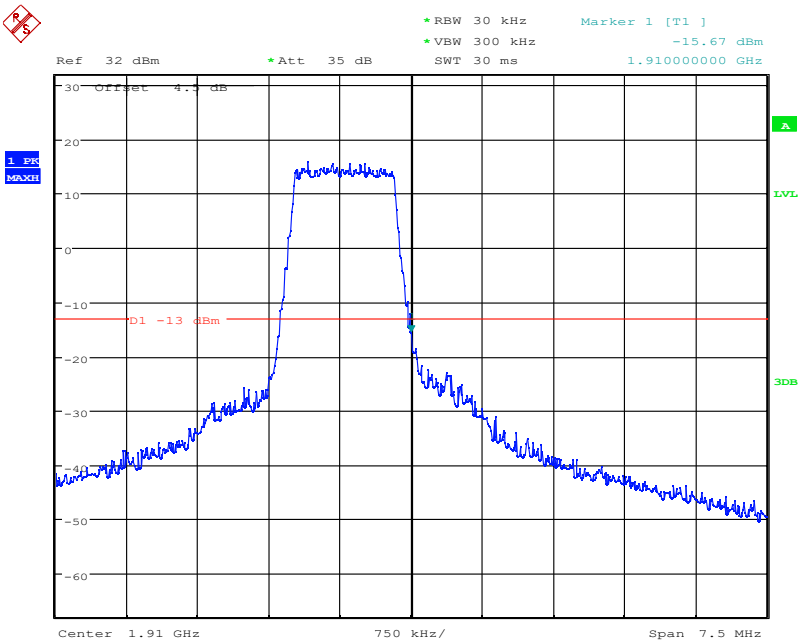
LTE Band2, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



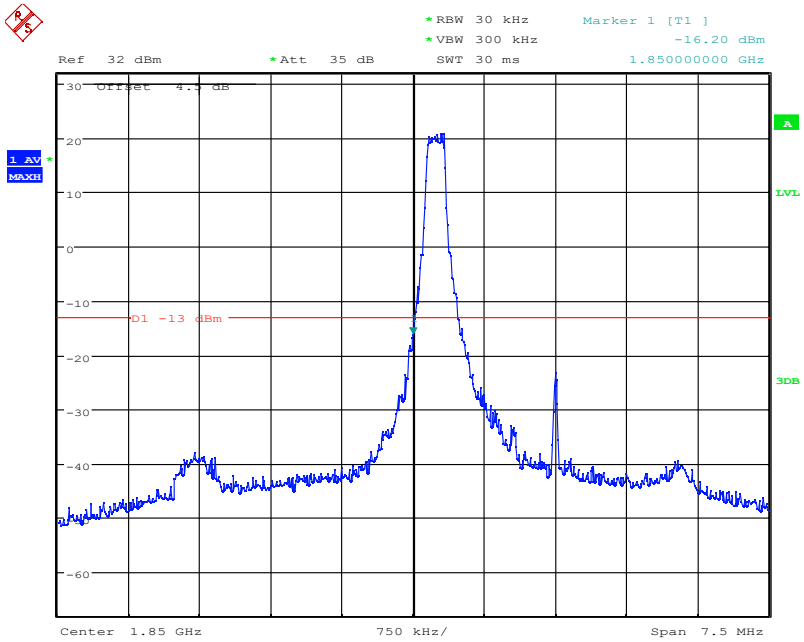
LTE Band2, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1850MHz



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

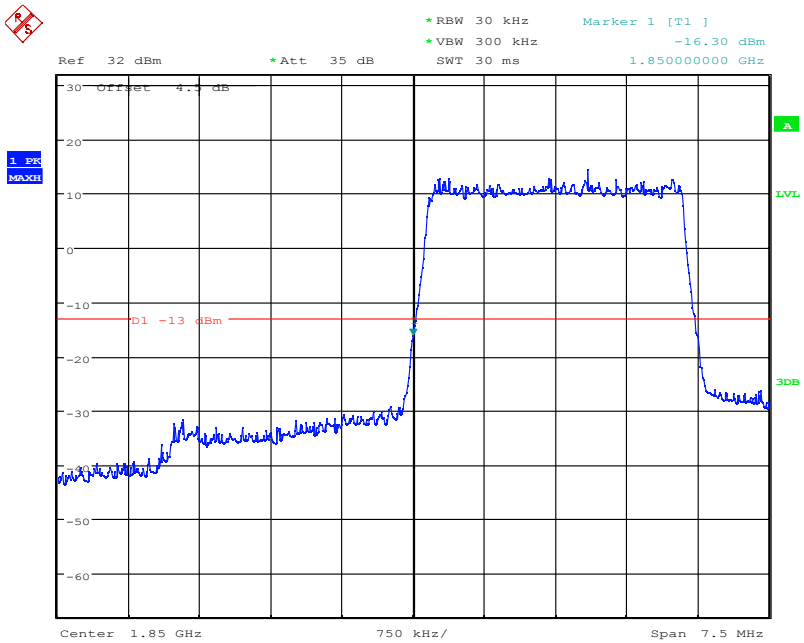


LTE Band2, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 1910MHz



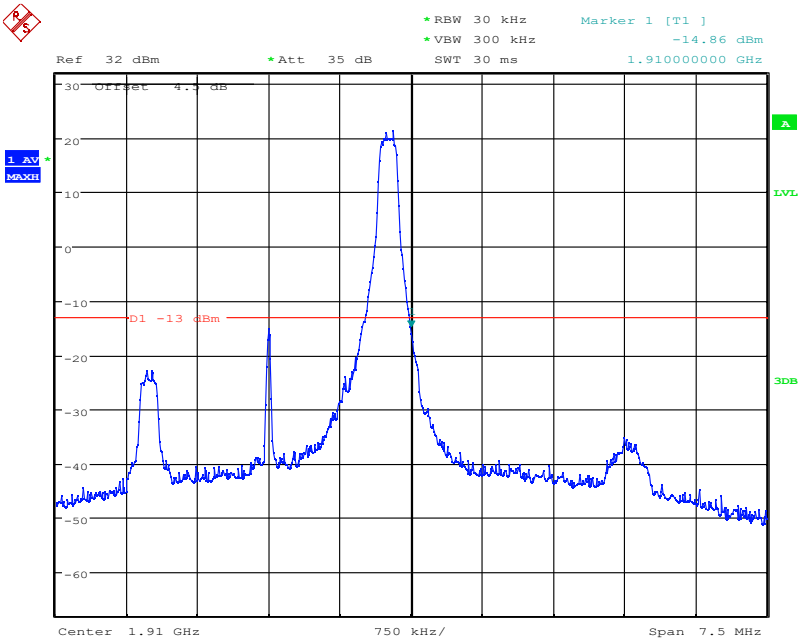
Date: 13.DEC.2021 10:47:48

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

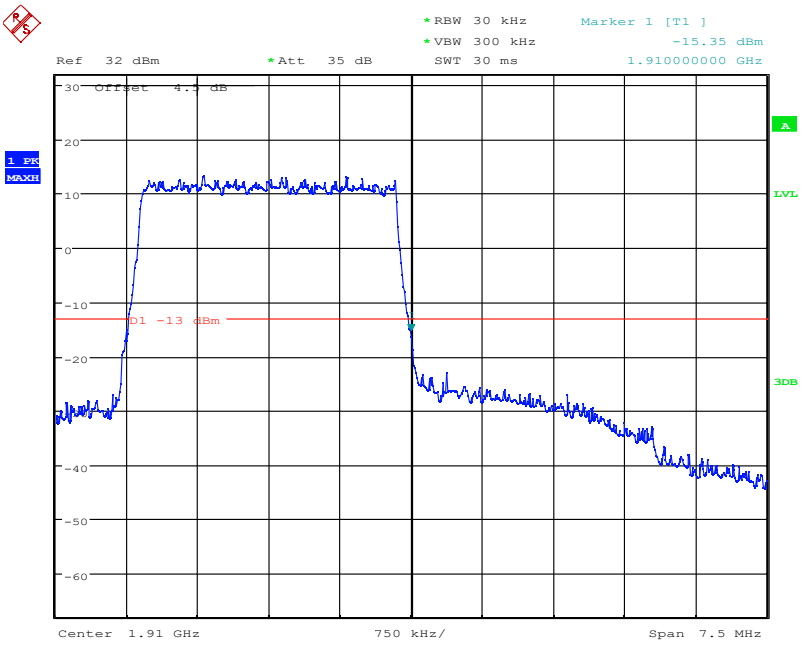


Date: 13.DEC.2021 10:48:06

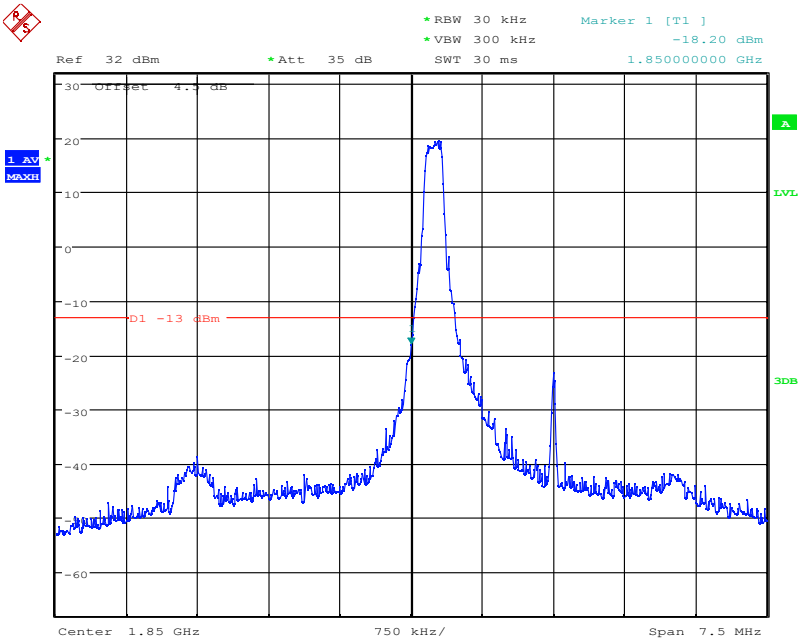
LTE Band2, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1850MHz



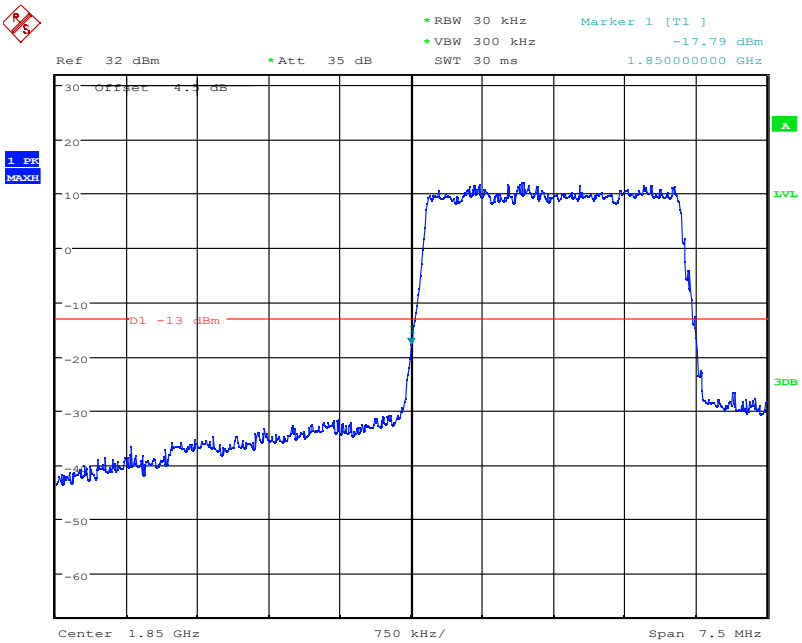
LTE Band2, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1910MHz



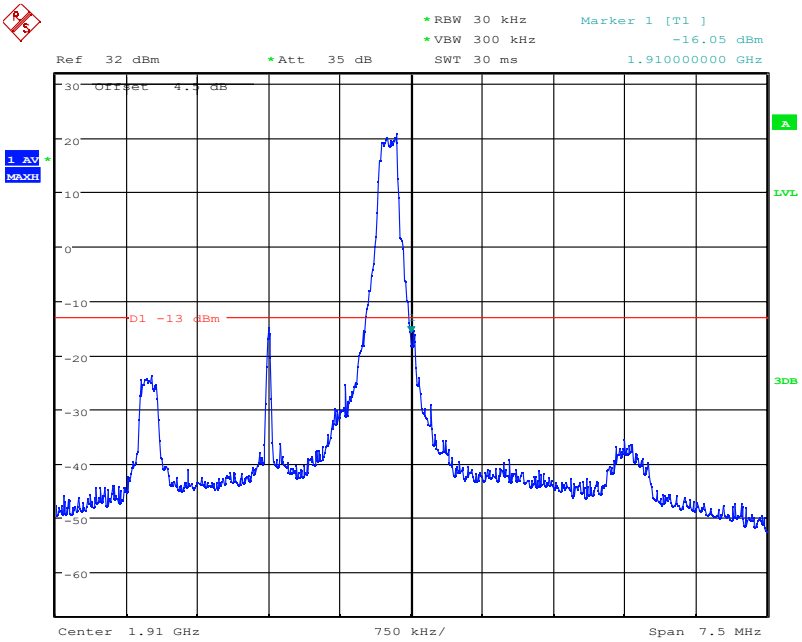
LTE Band2, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1910MHz



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

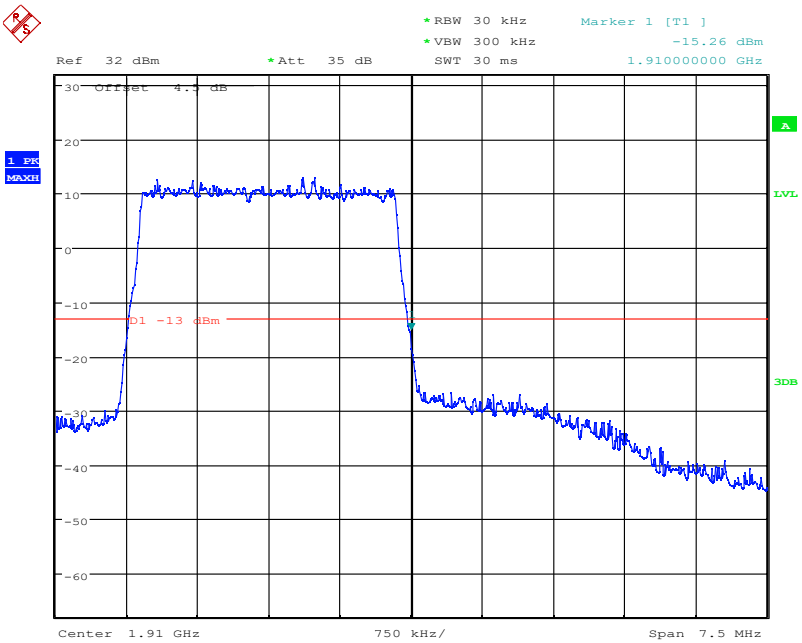


LTE Band2, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1850MHz



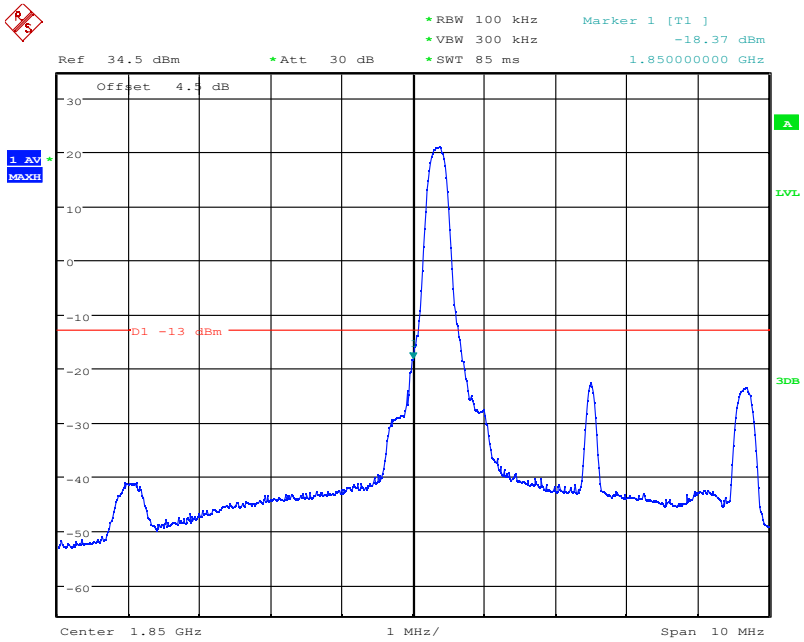
Date: 13.DEC.2021 10:49:52

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



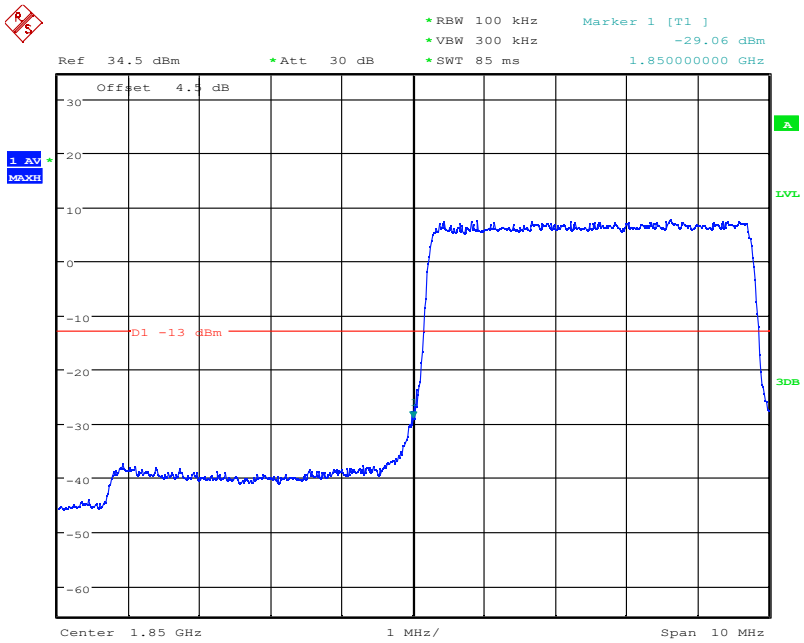
Date: 13.DEC.2021 10:50:10

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



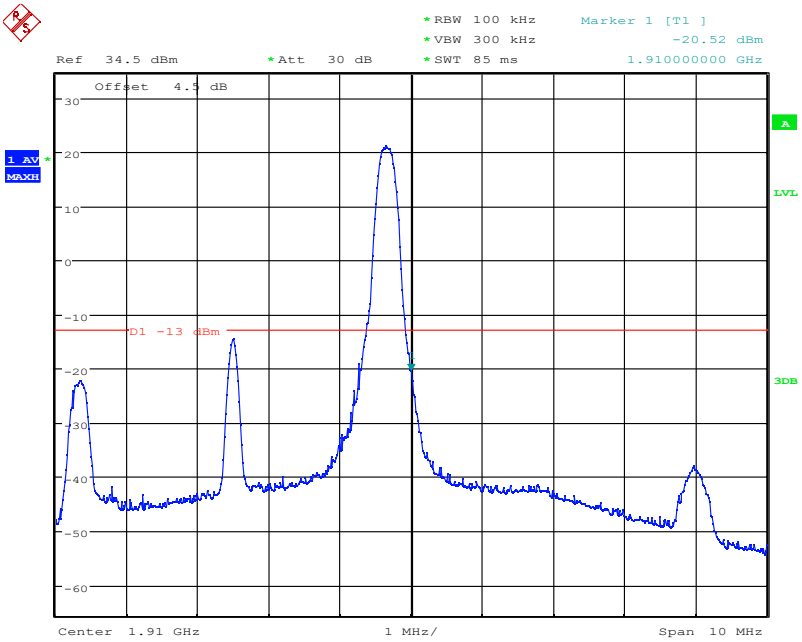
Date: 14.DEC.2021 08:01:05

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

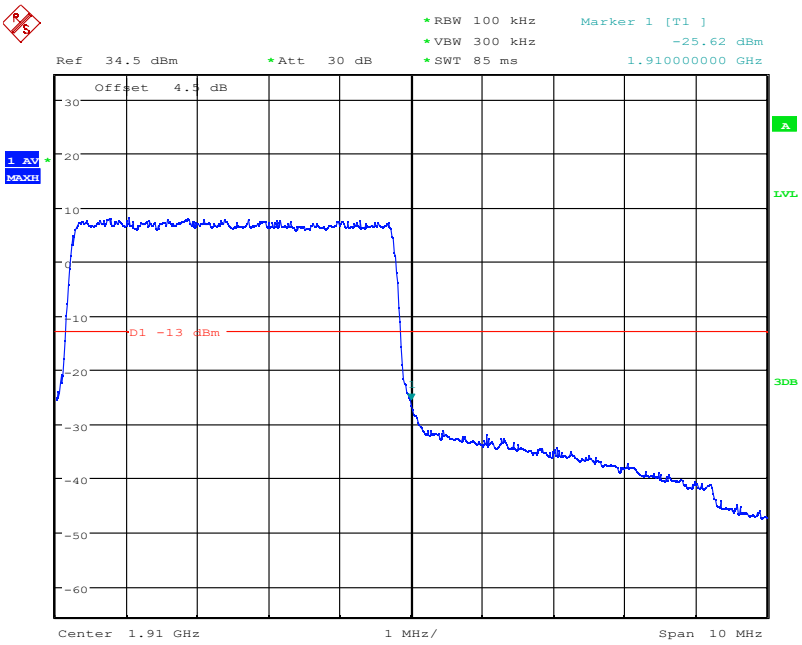


Date: 14.DEC.2021 08:01:18

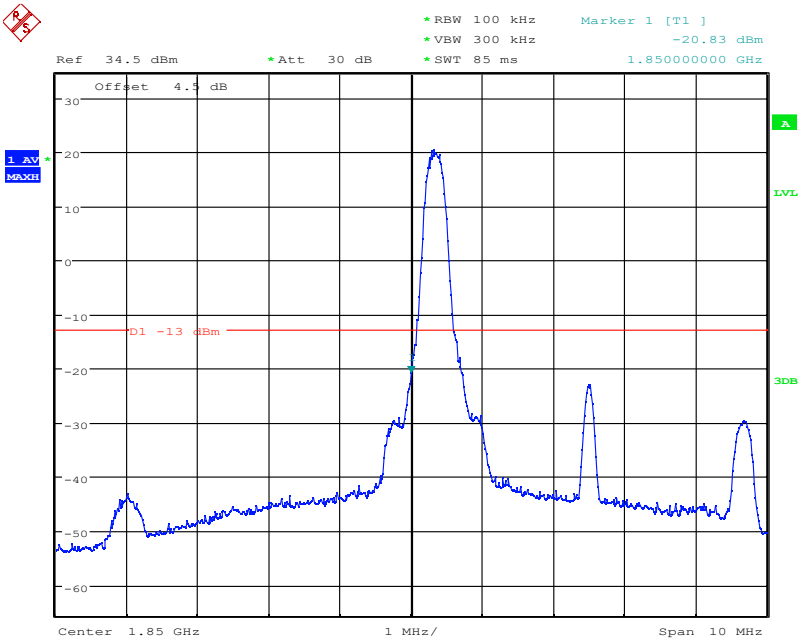
LTE Band2, 5MHz bandwidth, QPSK,(25,0) Mode , Below 1850MHz



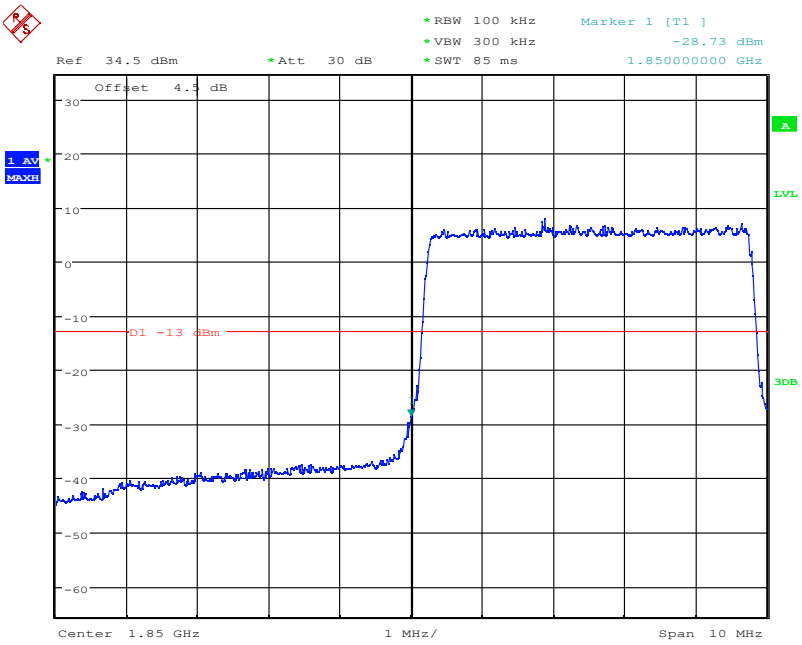
LTE Band2, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1910MHz



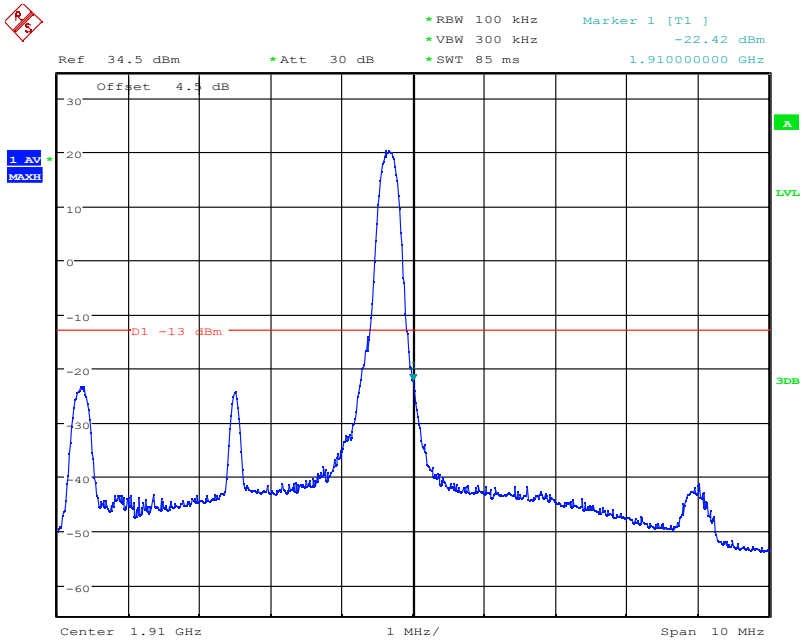
LTE Band2, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1910MHz



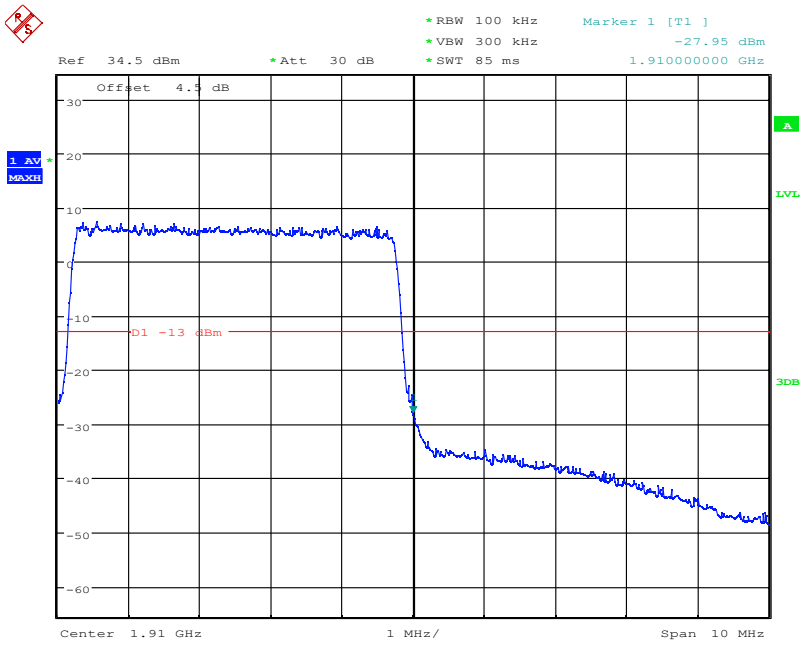
LTE Band2, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



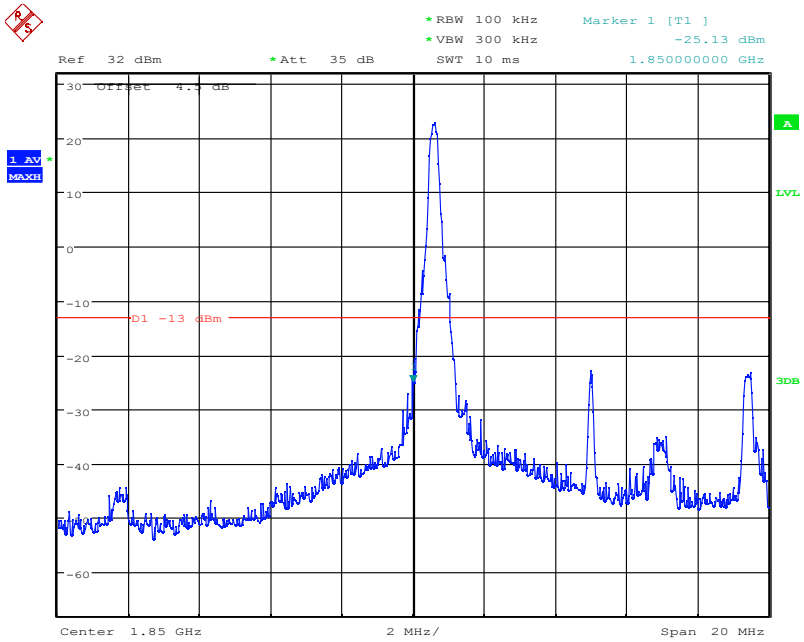
LTE Band2, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 1850MHz



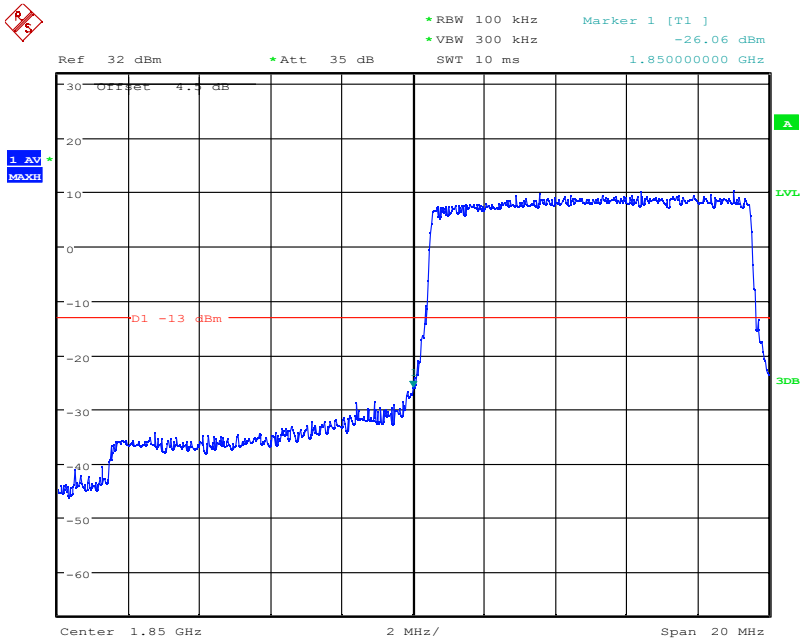
LTE Band2, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1910MHz



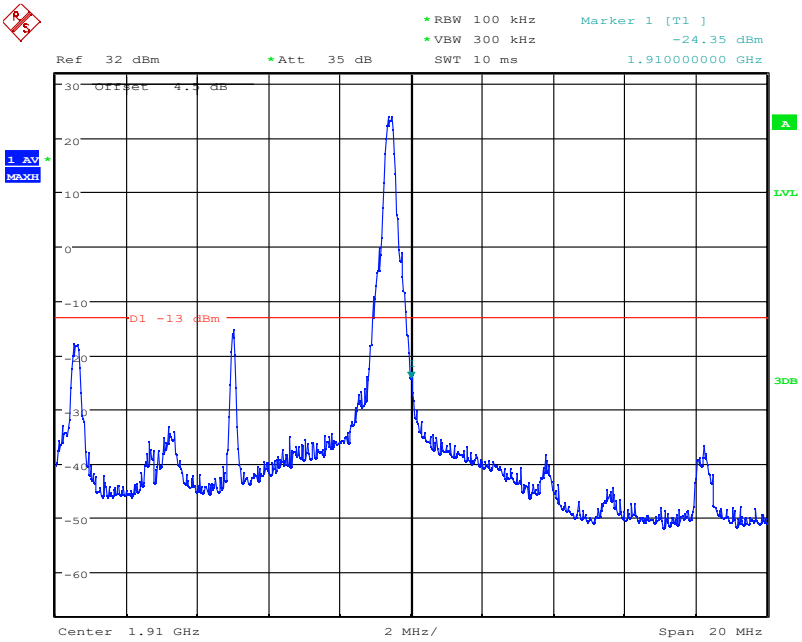
LTE Band2, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 1910MHz



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



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



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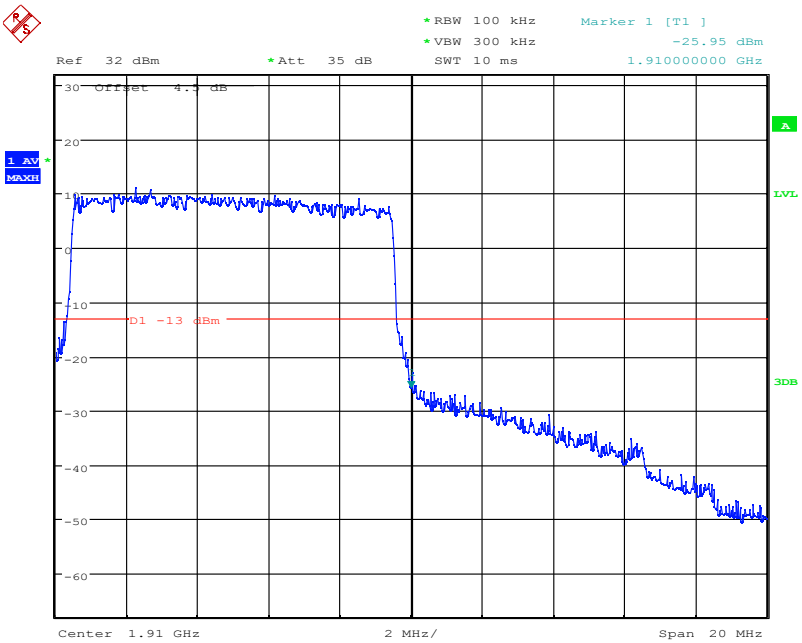
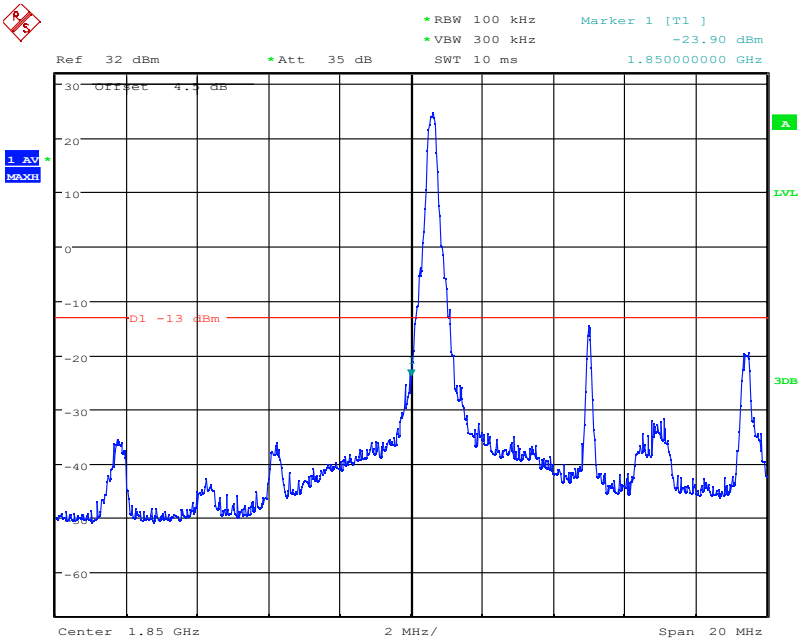
LTE Band2, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1910MHz

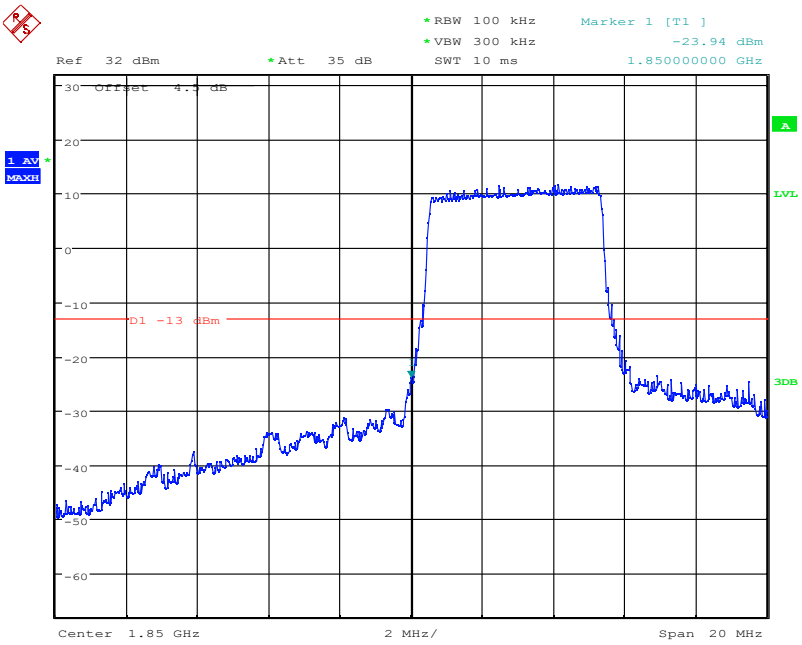


Date: 13.DEC.2021 11:32:05

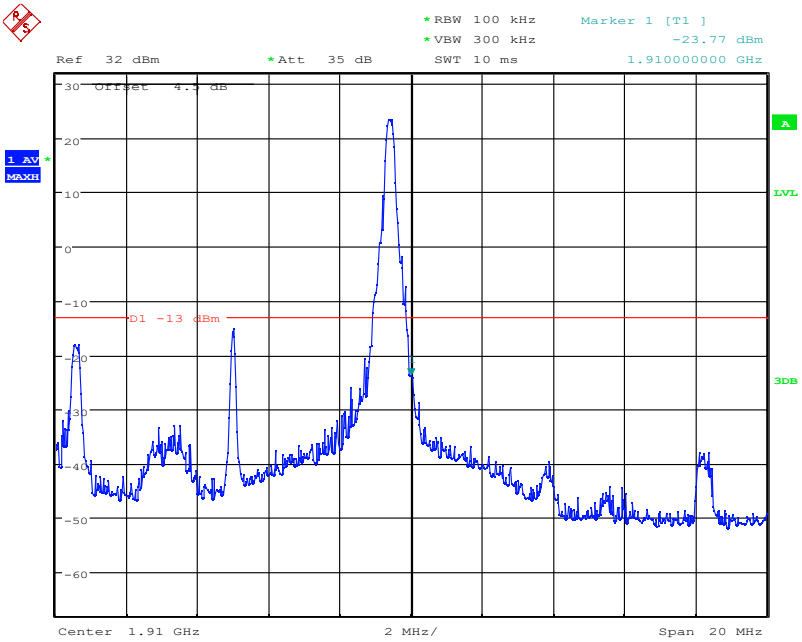
LTE Band2, 10MHz bandwidth, QPSK,(50,0) Mode, Above 1910MHz



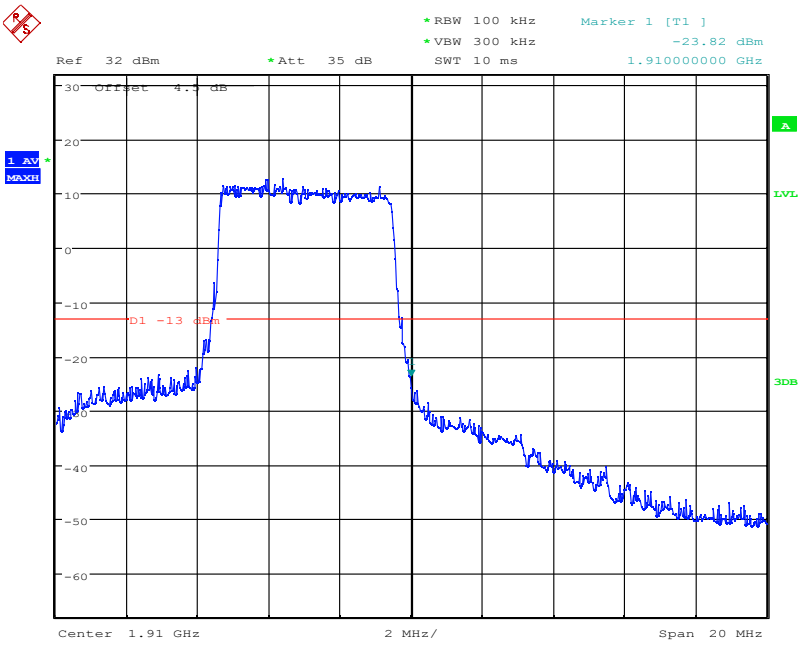
LTE Band2, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



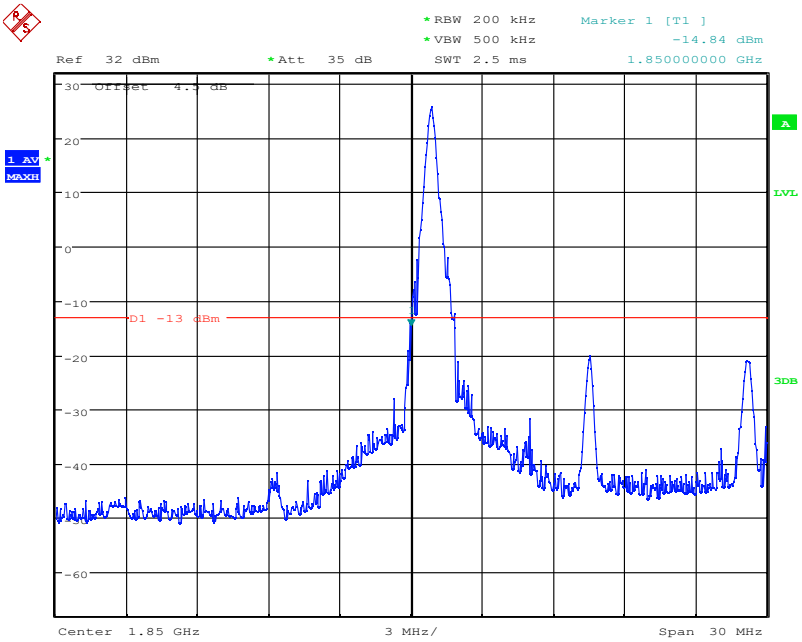
LTE Band2, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 1850MHz



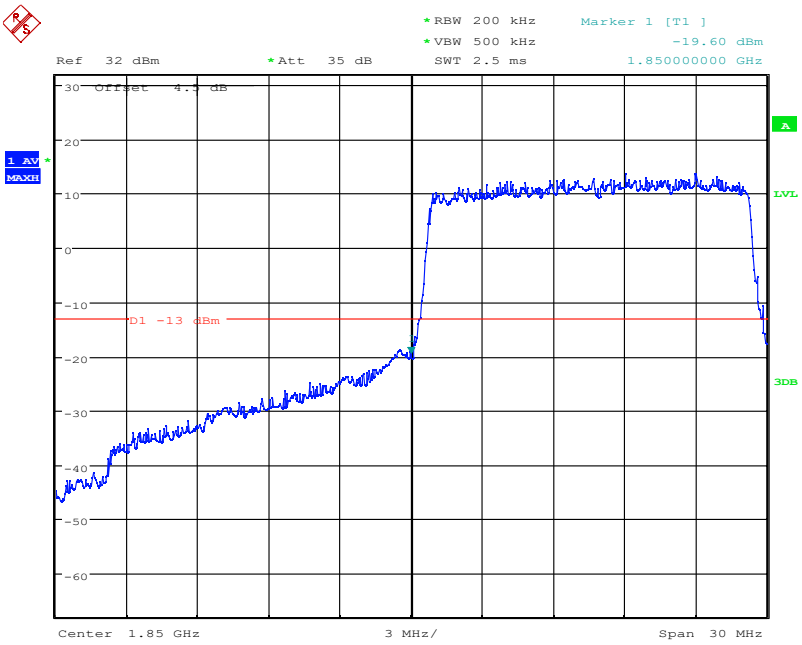
LTE Band2, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1910MHz



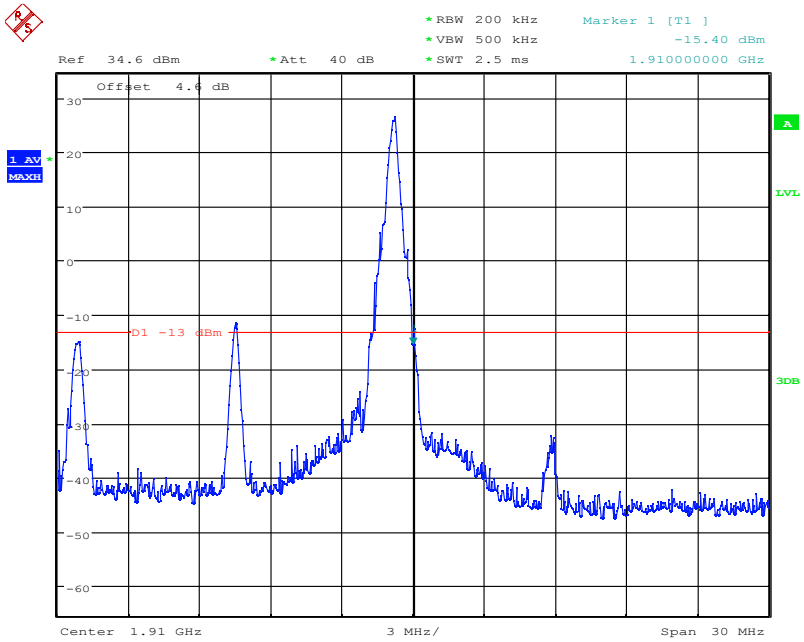
LTE Band2, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz



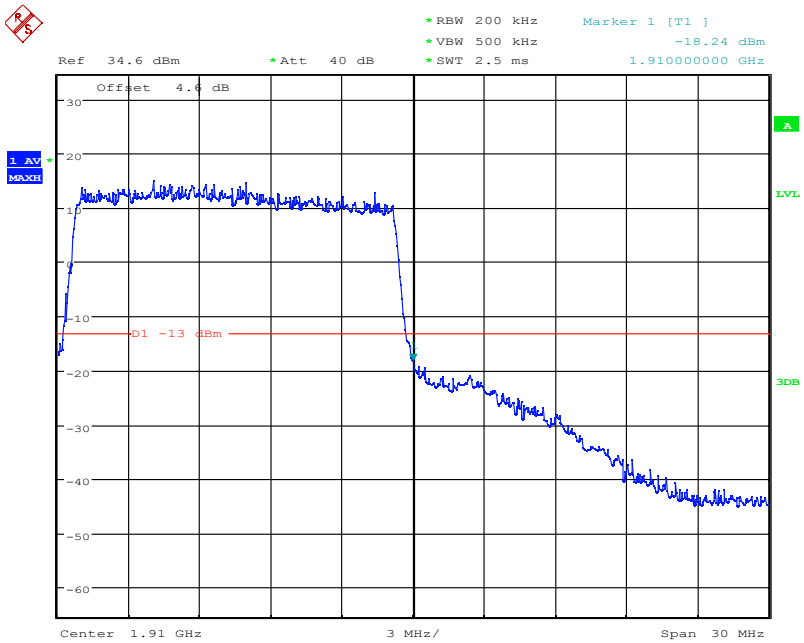
LTE Band2, 15MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



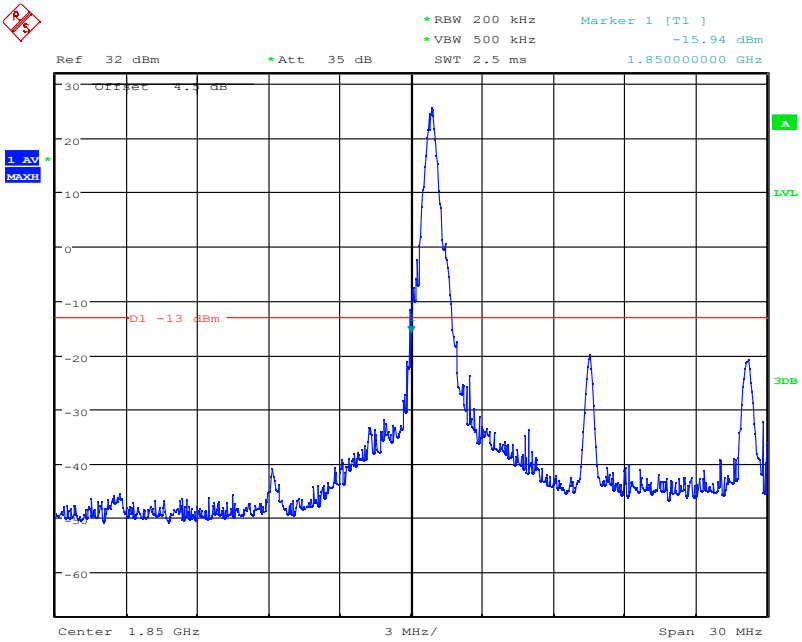
LTE Band2, 15MHz bandwidth, QPSK,(75,0) Mode , Below 1850MHz



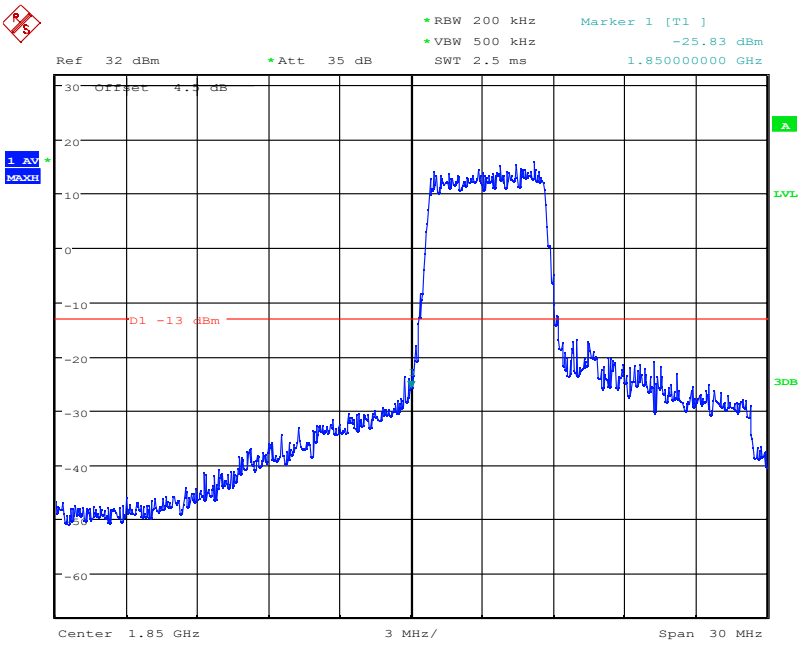
LTE Band2, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1910MHz



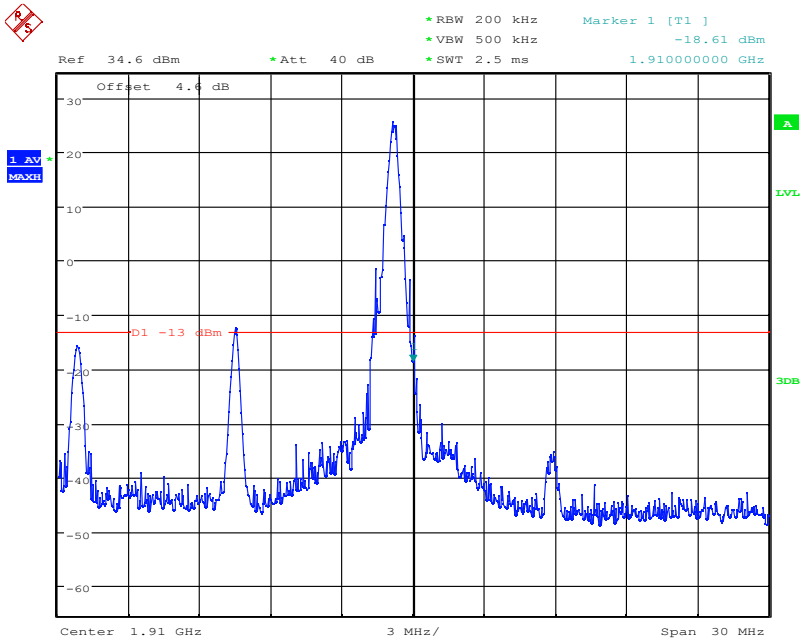
LTE Band2, 15MHz bandwidth, QPSK,(75,0) Mode, Above 1910MHz



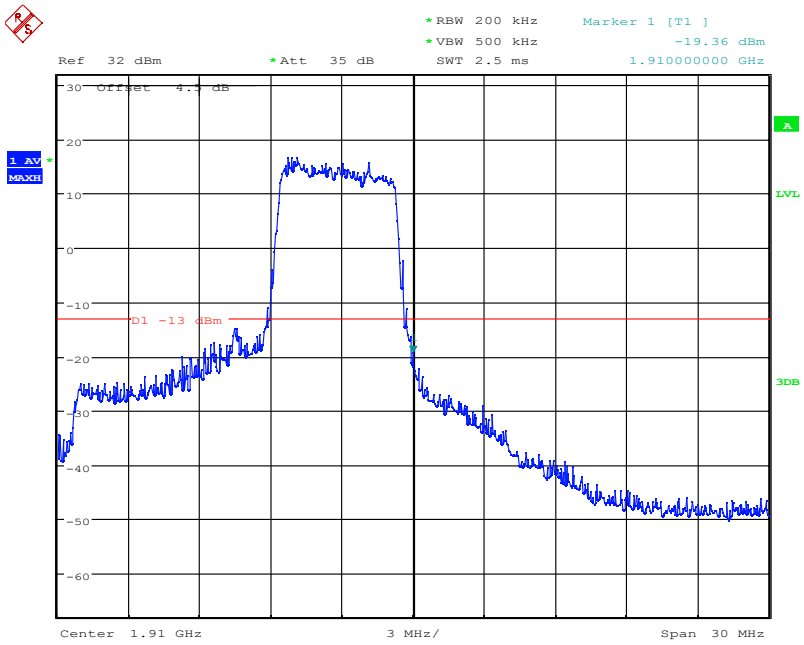
LTE Band2, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



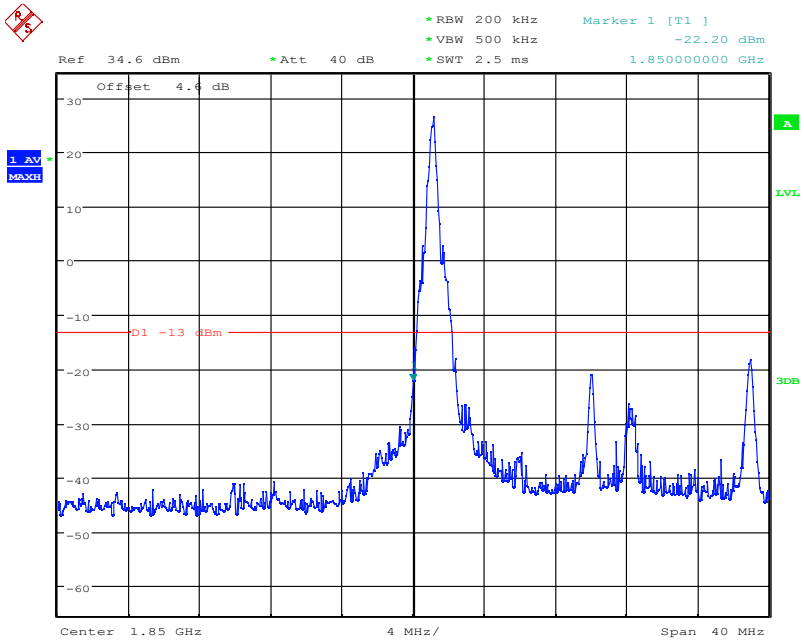
LTE Band2, 15MHz bandwidth, 16QAM,(27,0) Mode , Below 1850MHz



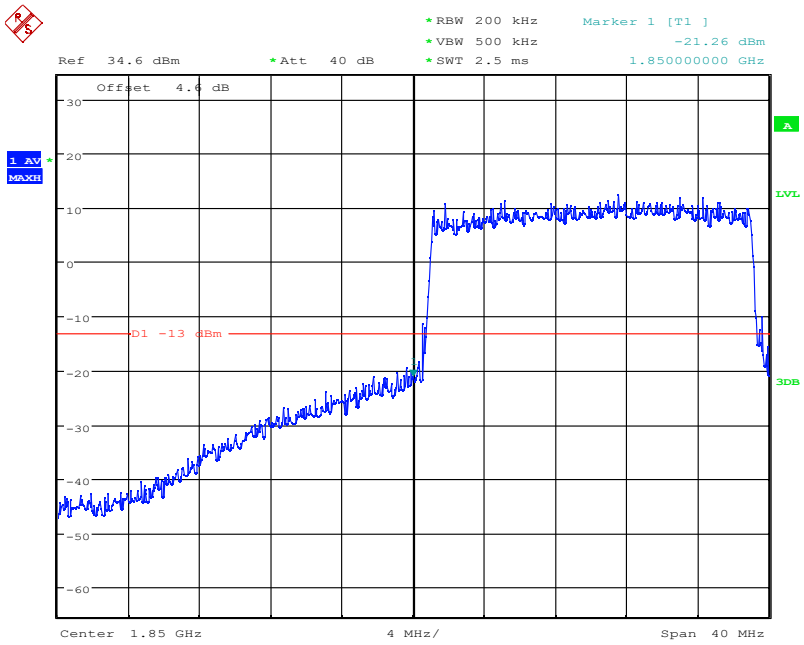
LTE Band2, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1910MHz



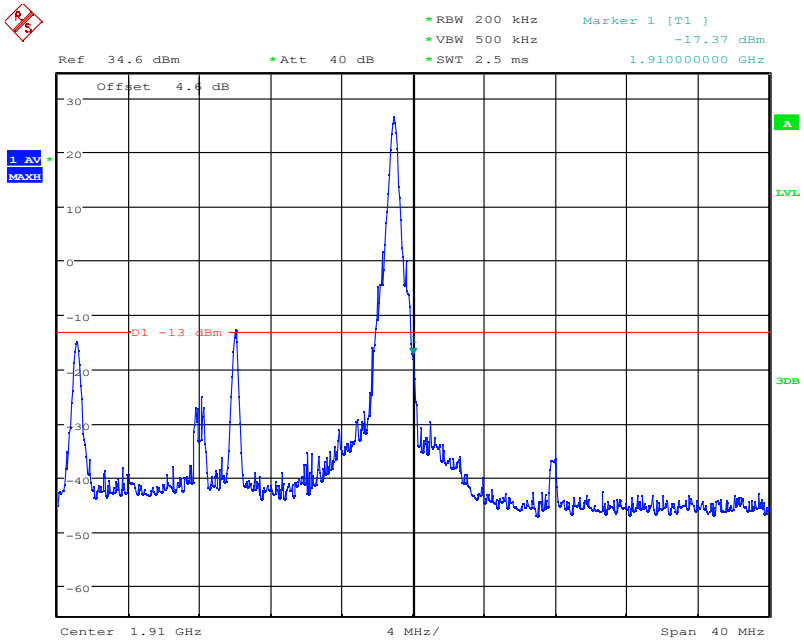
LTE Band2, 15MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz



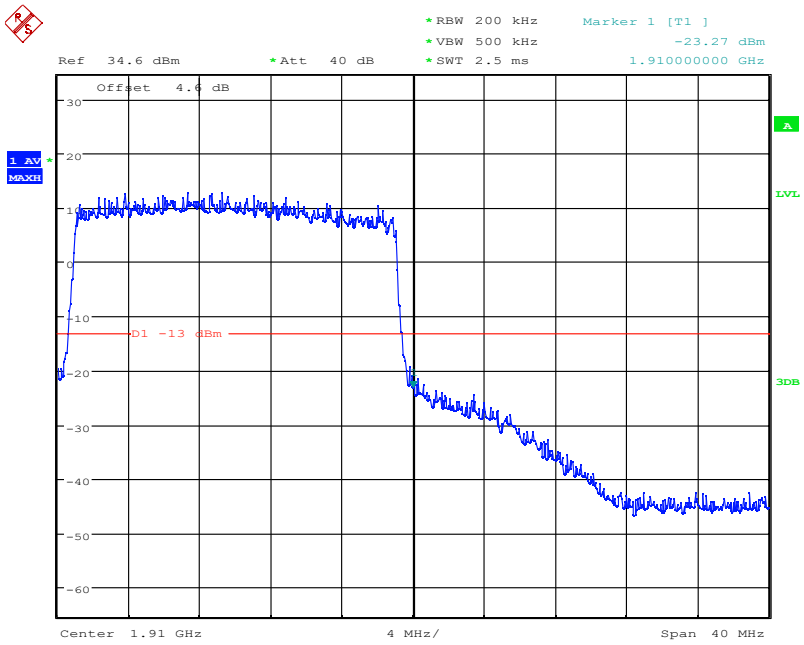
LTE Band2, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



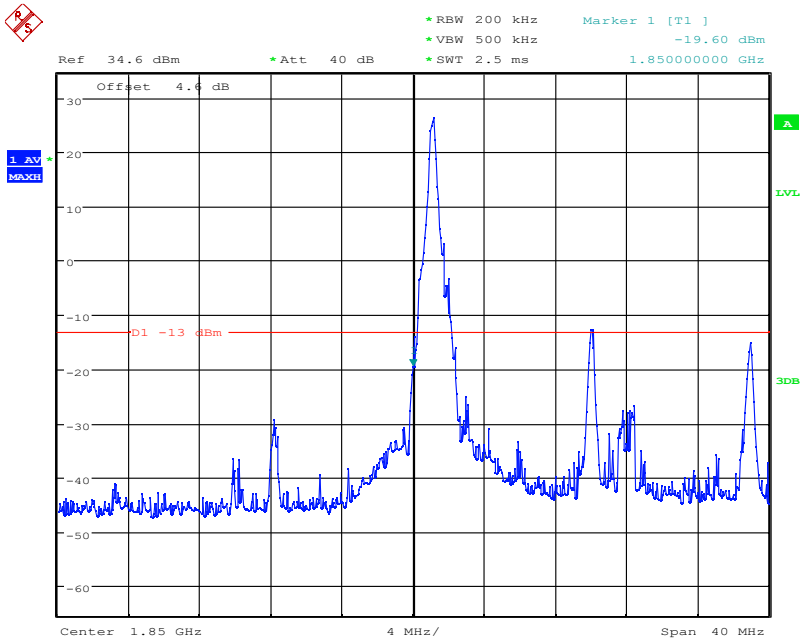
LTE Band2, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1850MHz



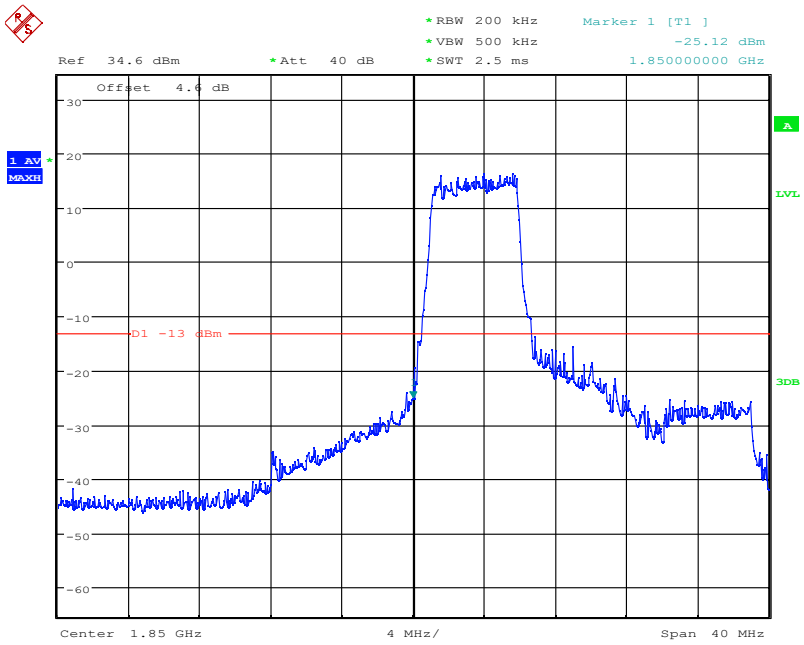
LTE Band2, 20MHz bandwidth, QPSK,(1,100) Mode, Above 1910MHz



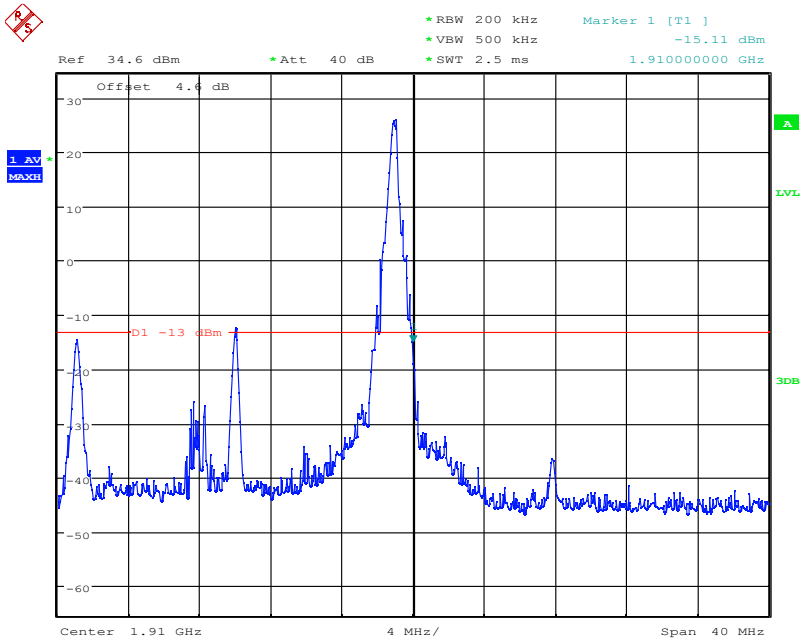
LTE Band2, 20MHz bandwidth, QPSK,(100,0) Mode, Above 1910MHz



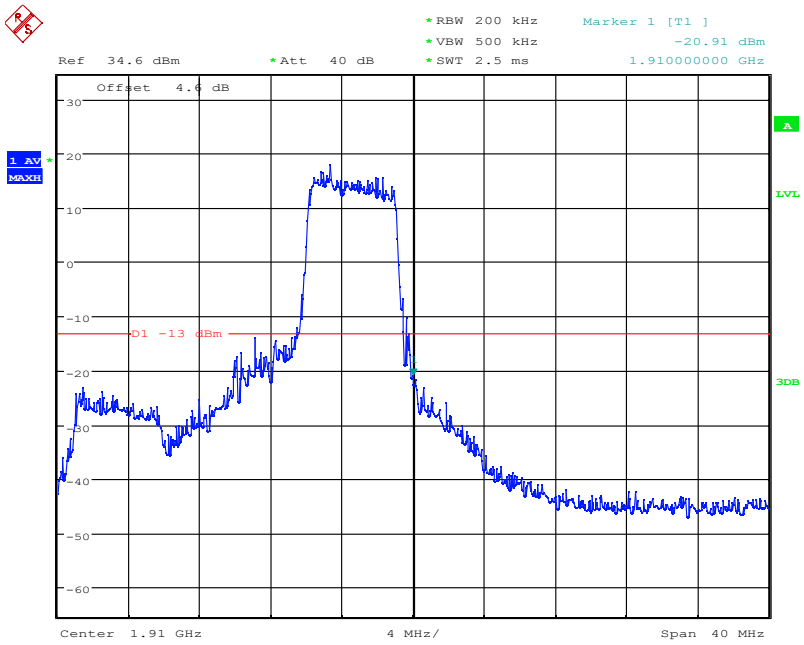
LTE Band2, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



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

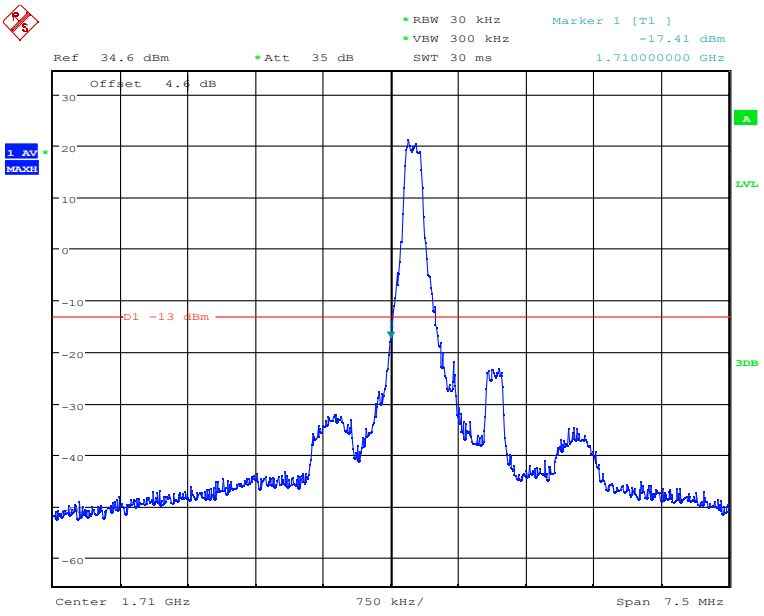


LTE Band2, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1910MHz

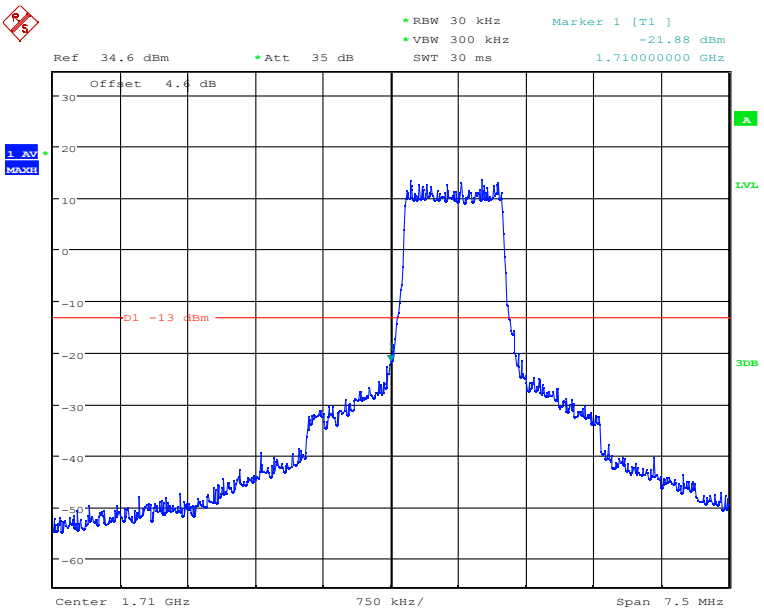


LTE Band2, 20MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz

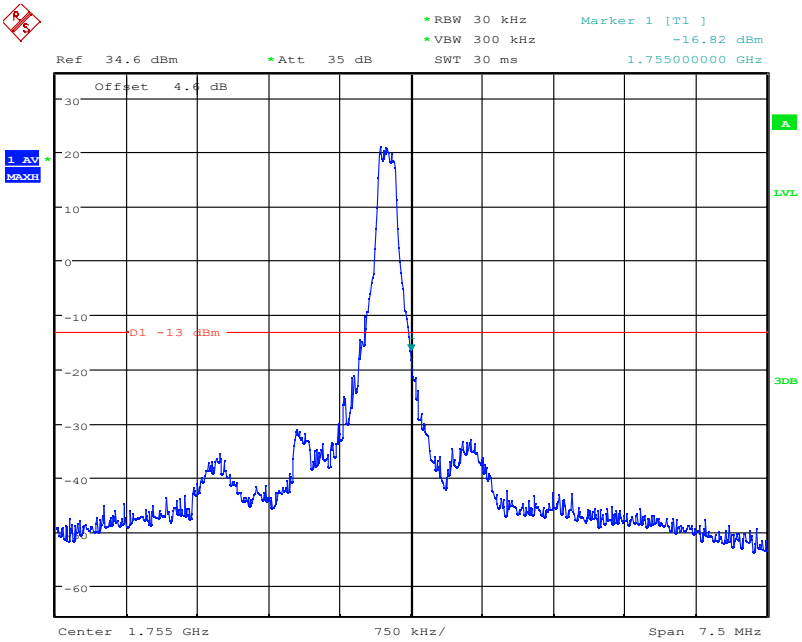
6.7.2 LTE B4 Band Edge Results



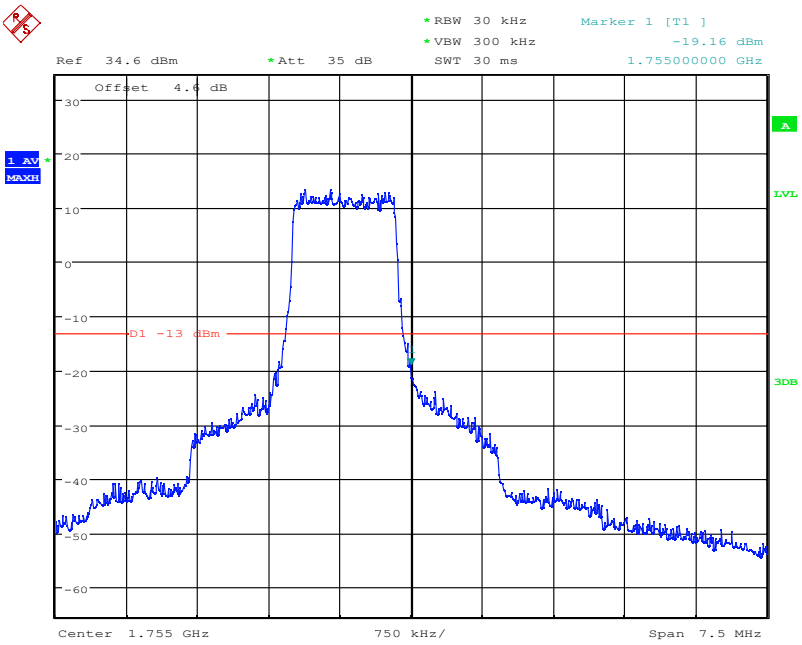
LTE Band4, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



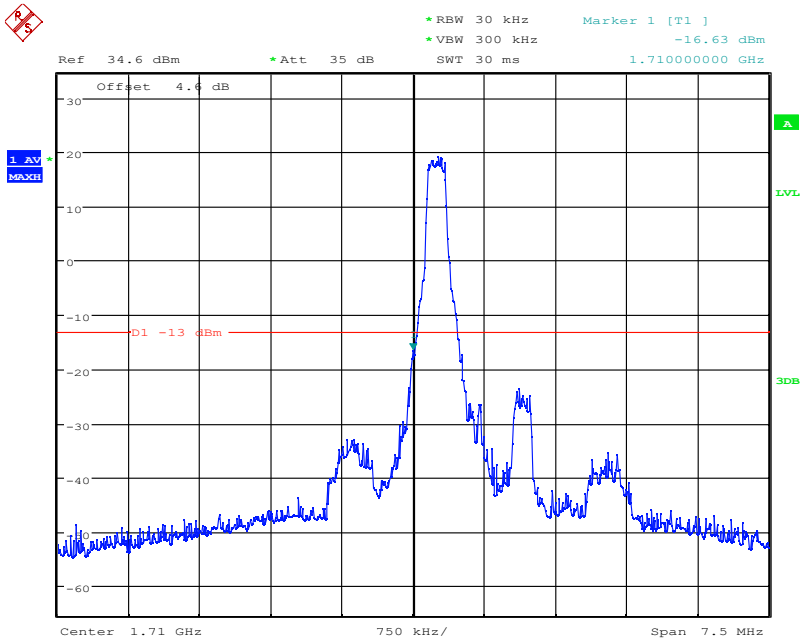
LTE Band4, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 1710MHz



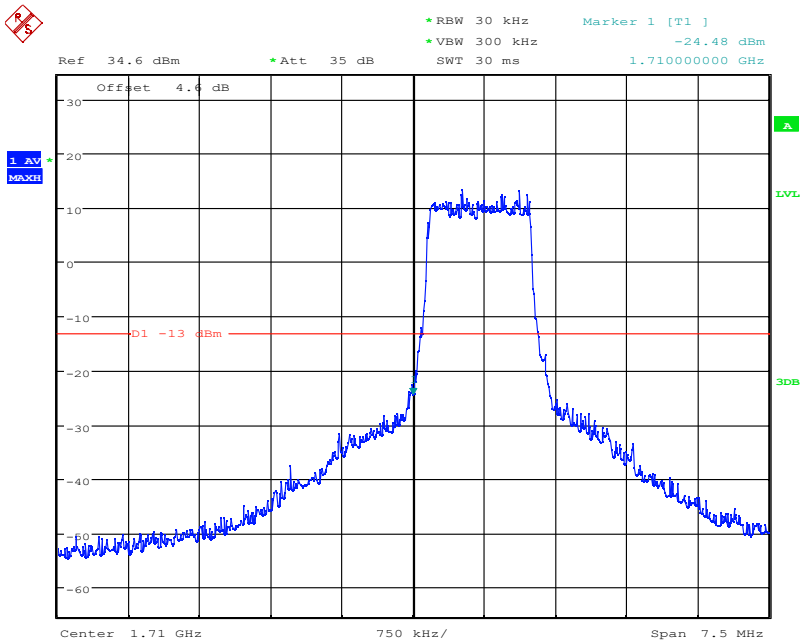
LTE Band4, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1755MHz



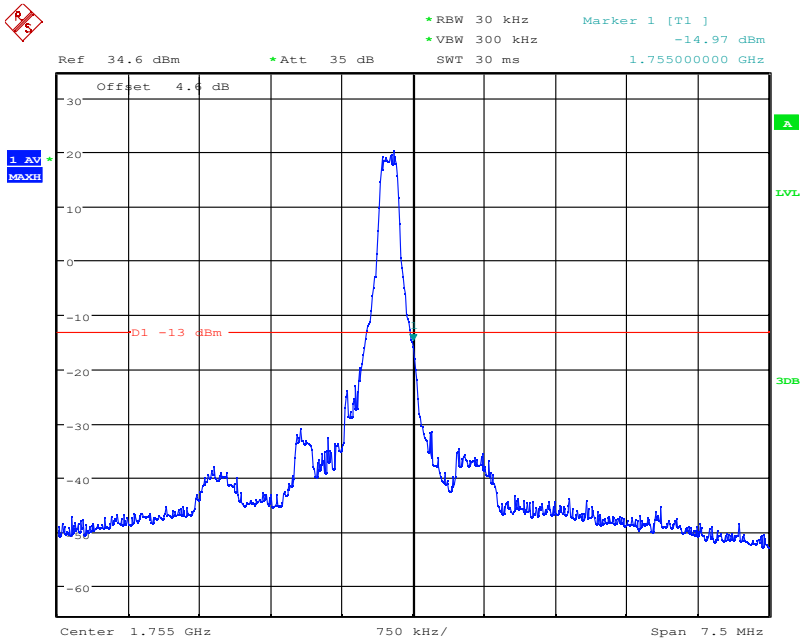
LTE Band4, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1755MHz



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

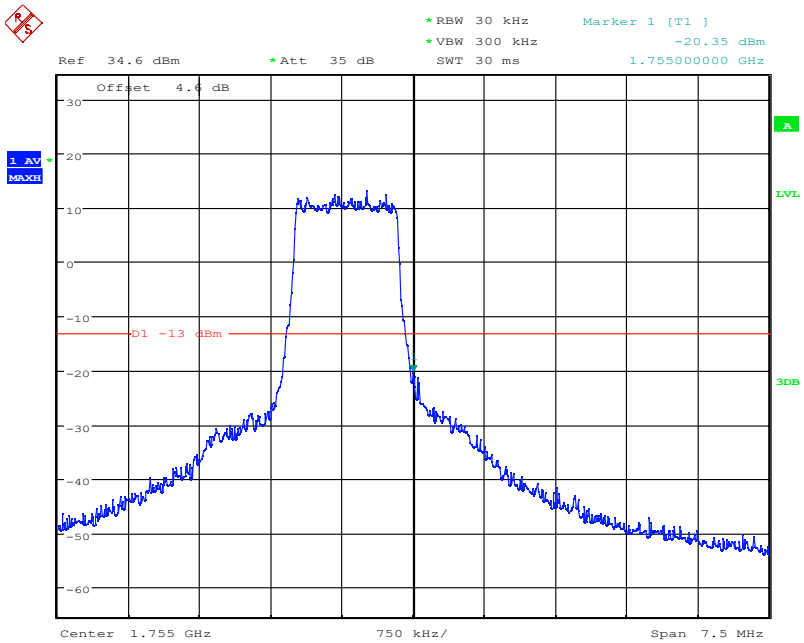


LTE Band4, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1710MHz



Date: 13.DEC.2021 12:19:04

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



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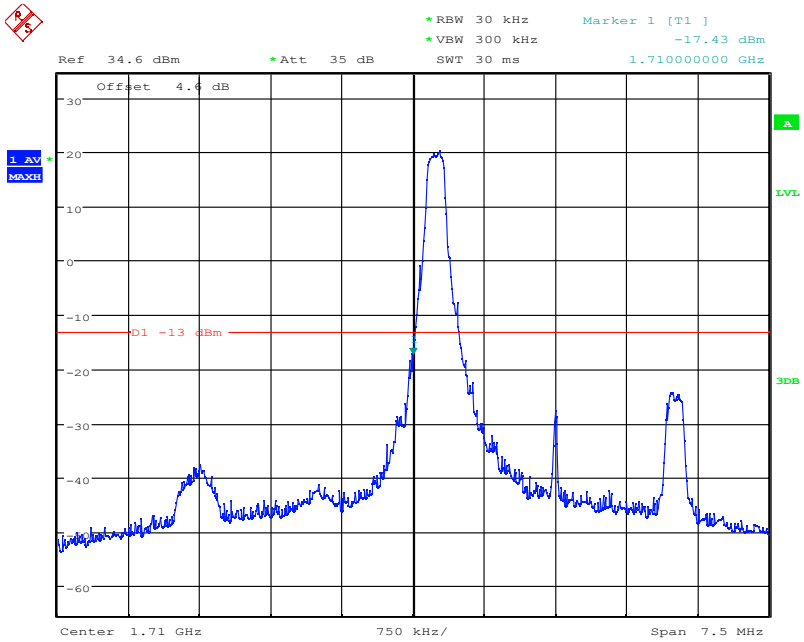
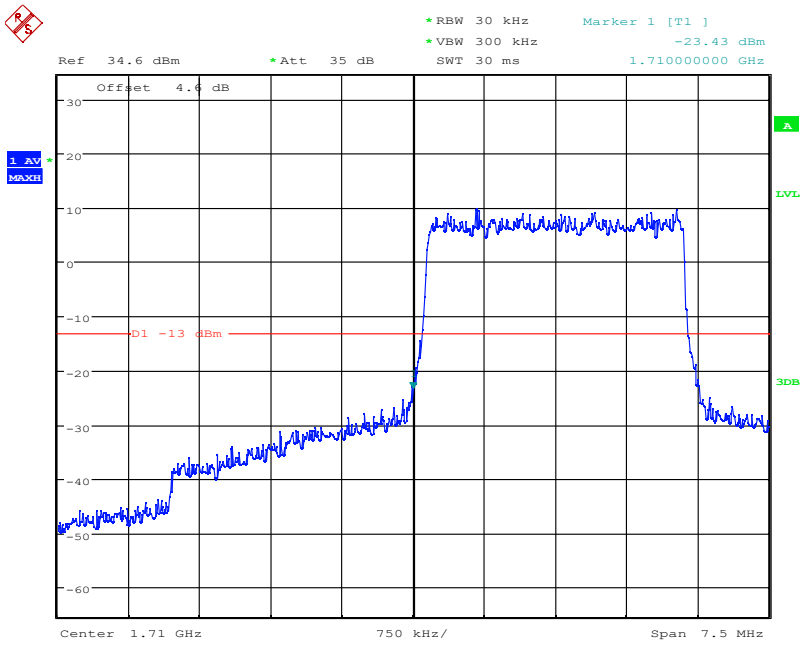
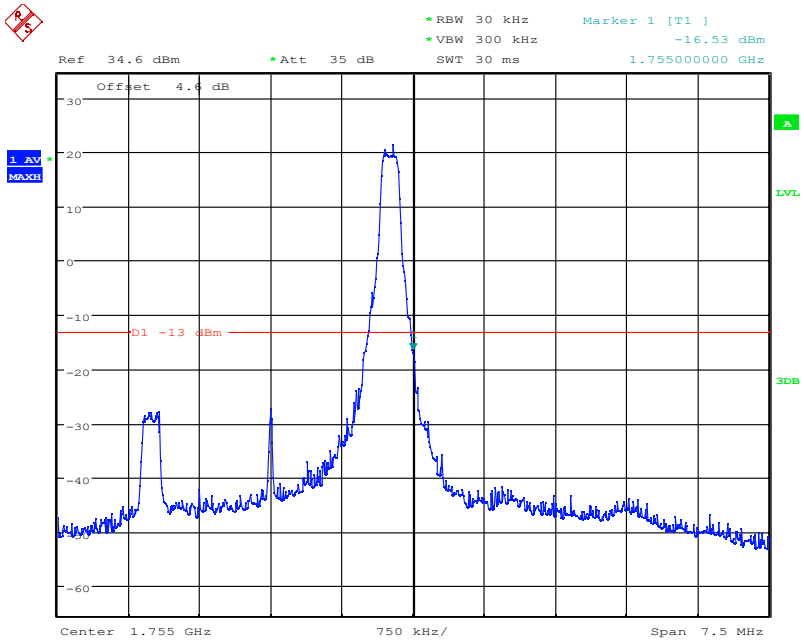
LTE Band4, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 1755MHz



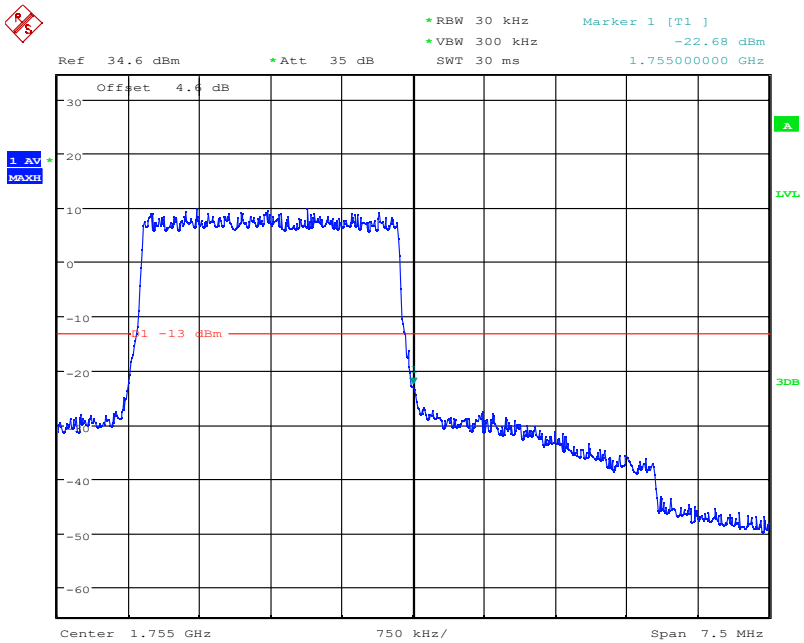
LTE Band4, 3MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



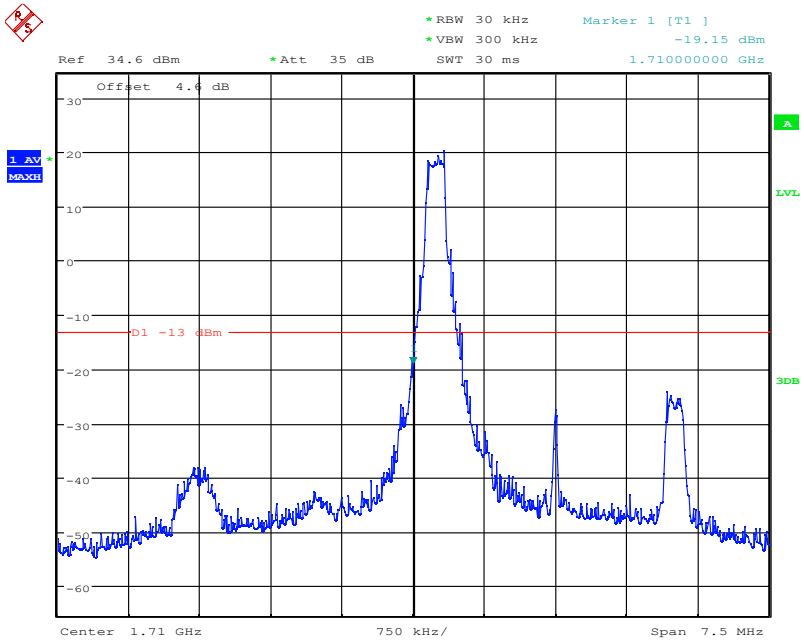
LTE Band4, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1710MHz



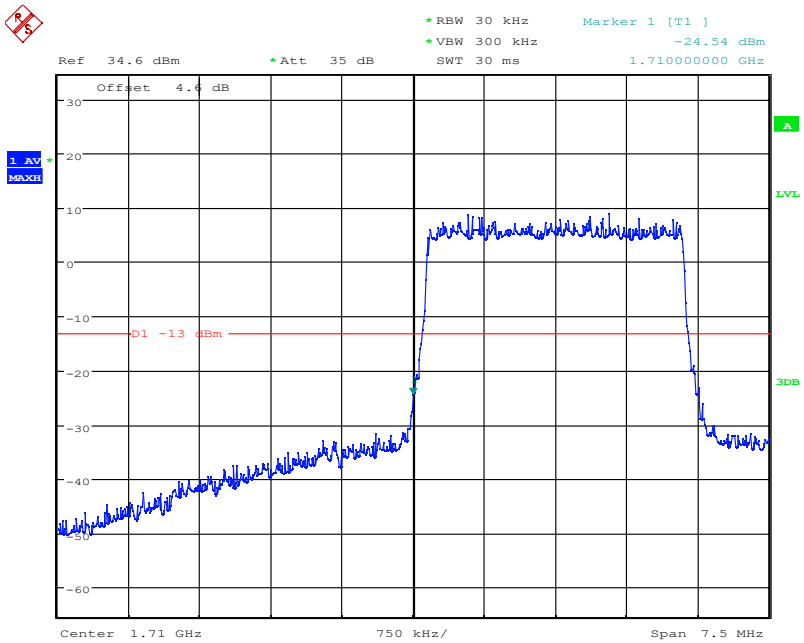
LTE Band4, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1755MHz



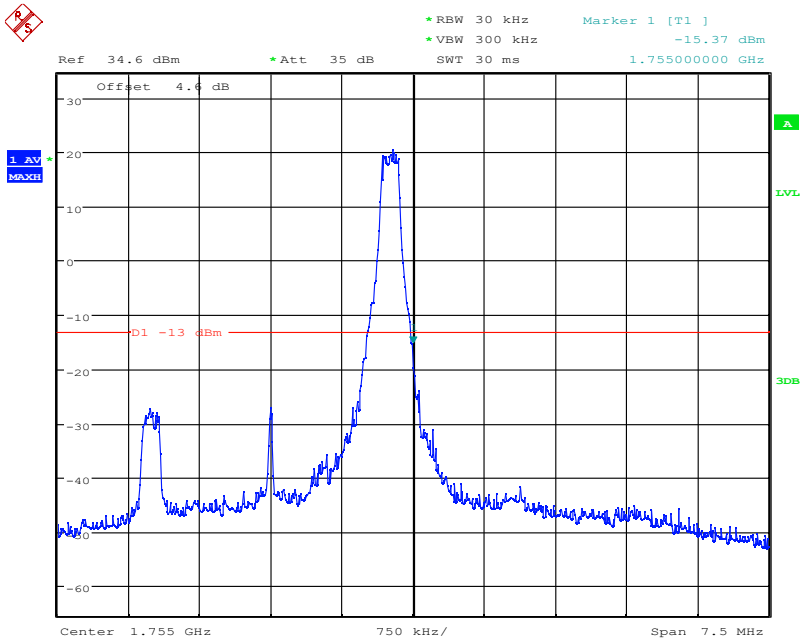
LTE Band4, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1755MHz



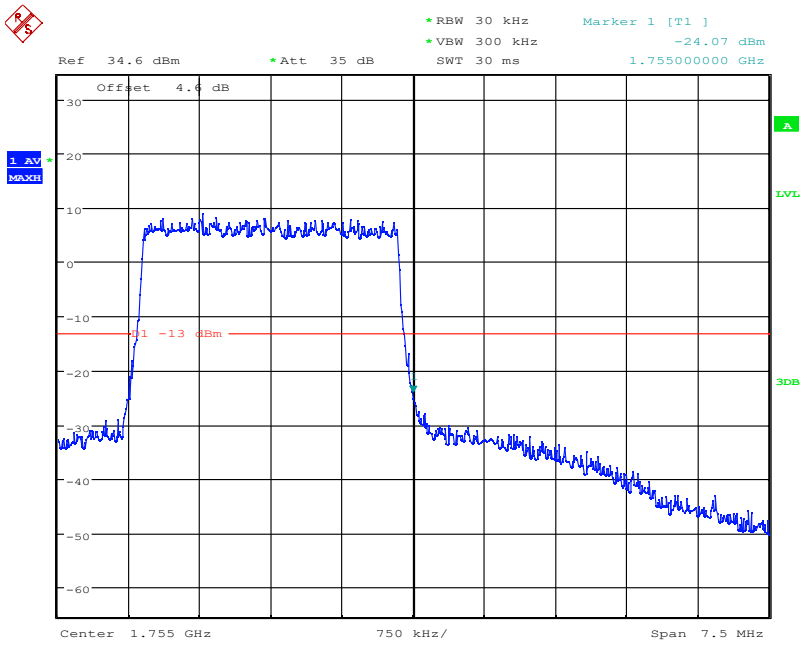
LTE Band4, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



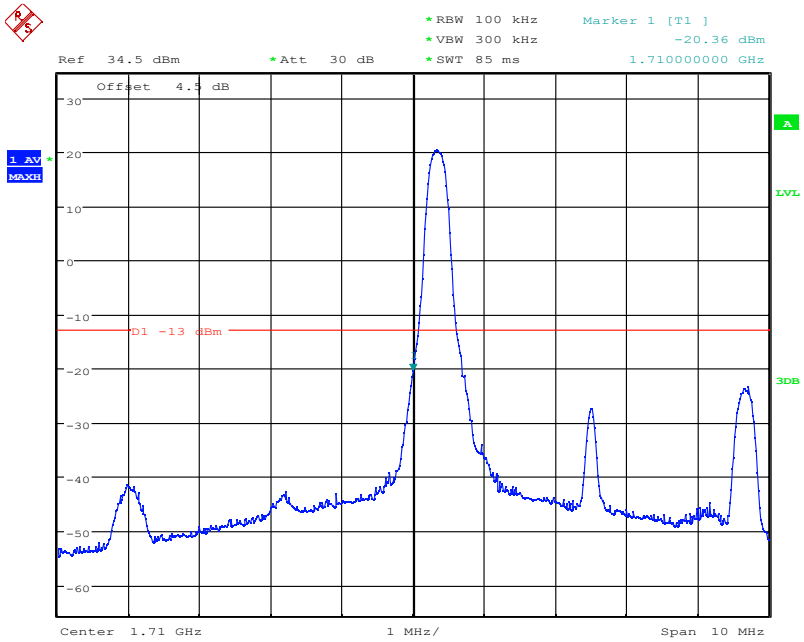
LTE Band4, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1710MHz



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



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



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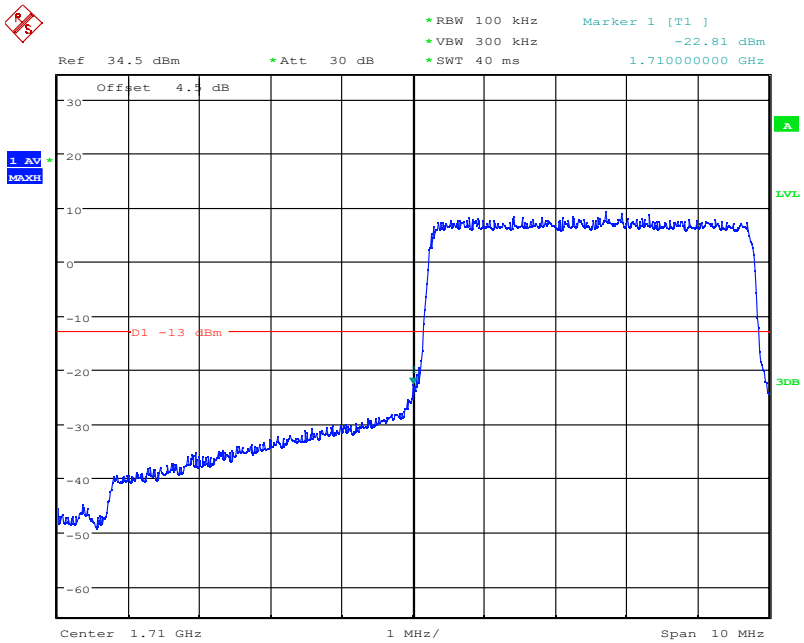
LTE Band4, 5MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



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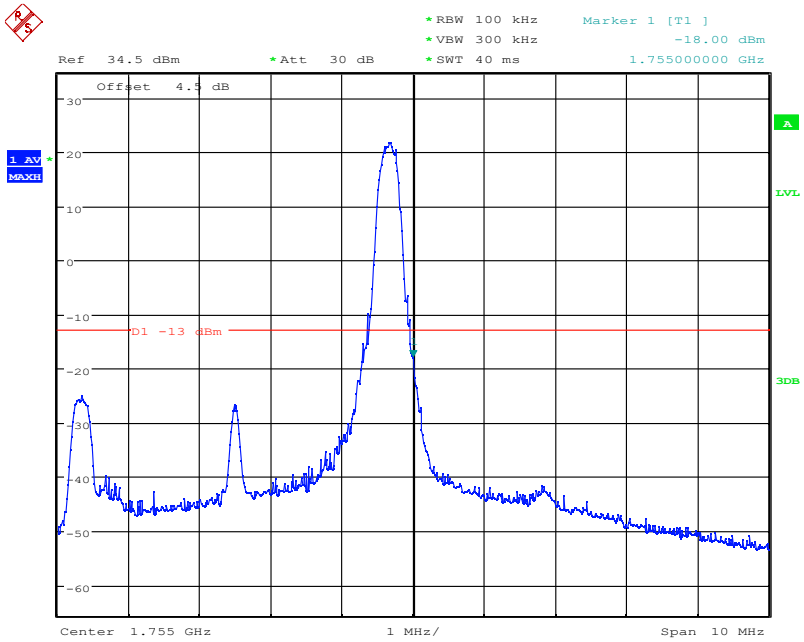
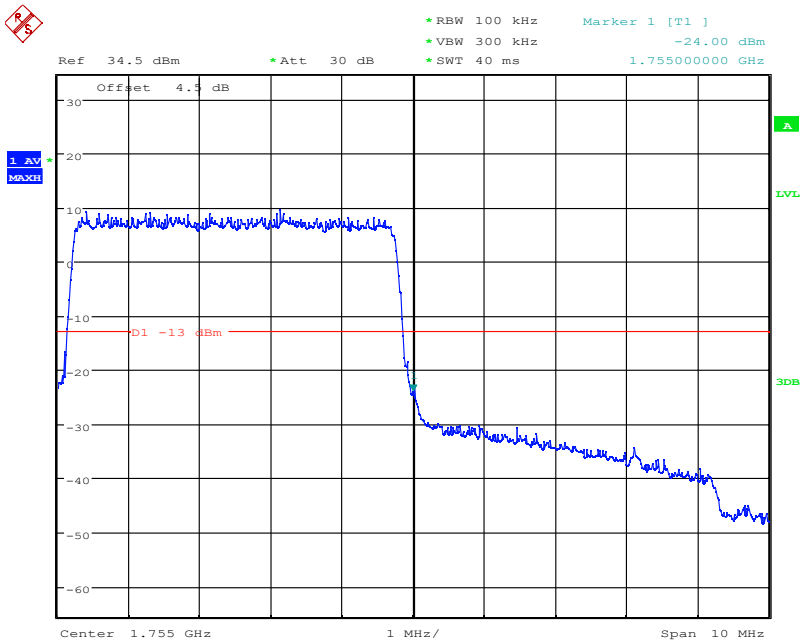
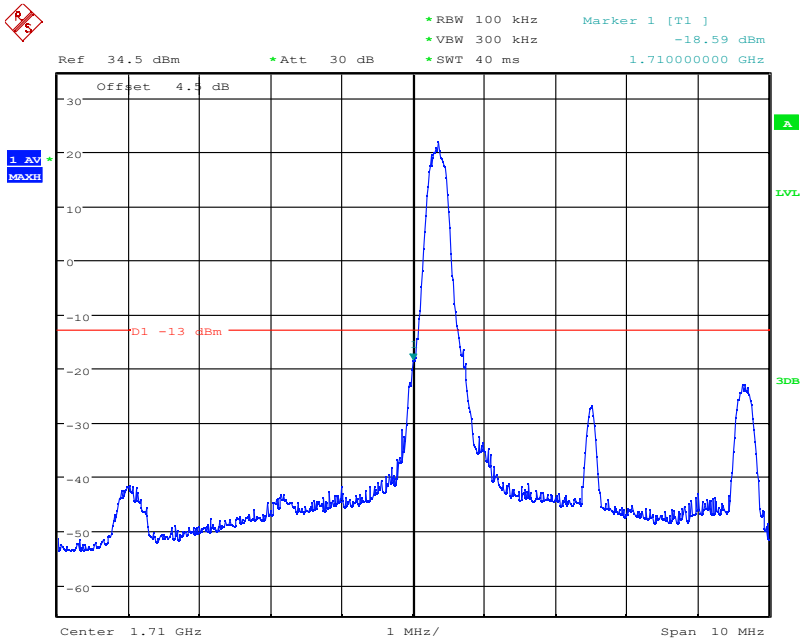
LTE Band4, 5MHz bandwidth, QPSK,(25,0) Mode , Below 1710MHz



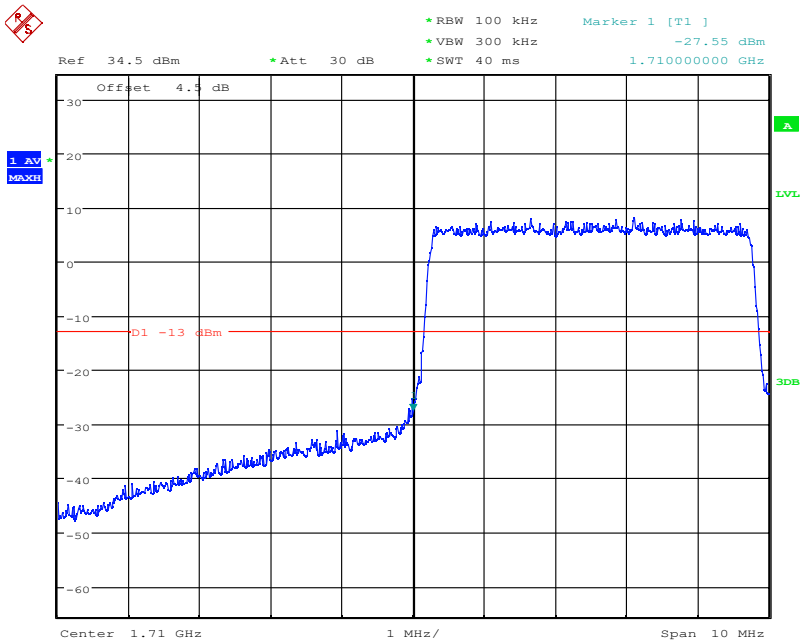
LTE Band4, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1755MHz



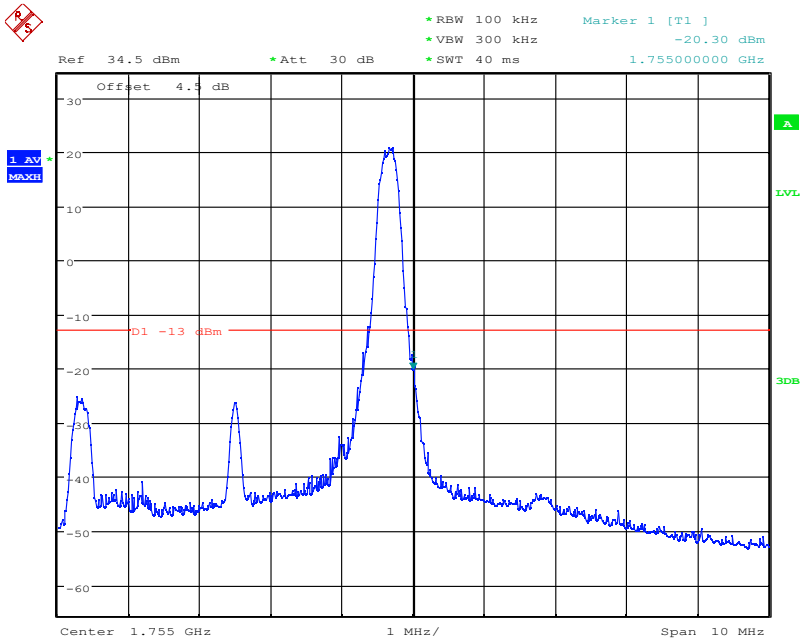
LTE Band4, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1755MHz



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



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



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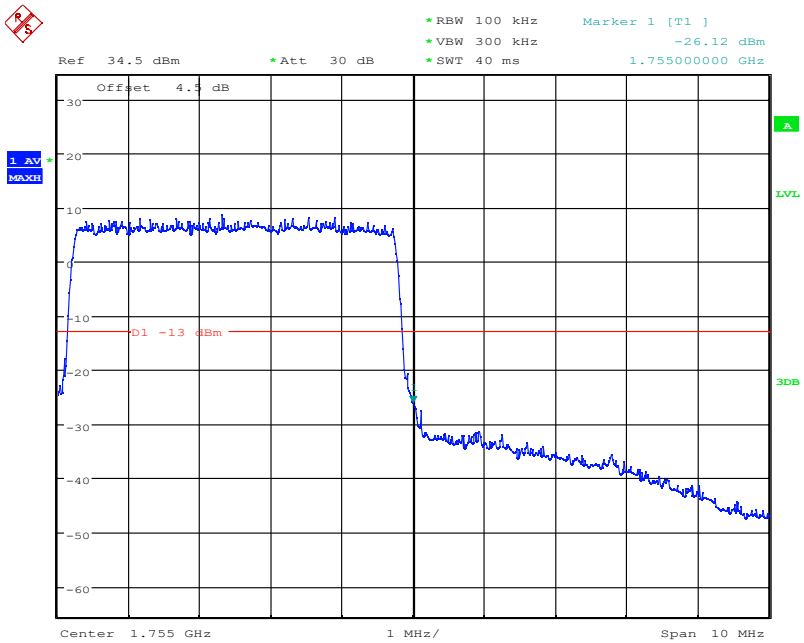
LTE Band4, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1755MHz



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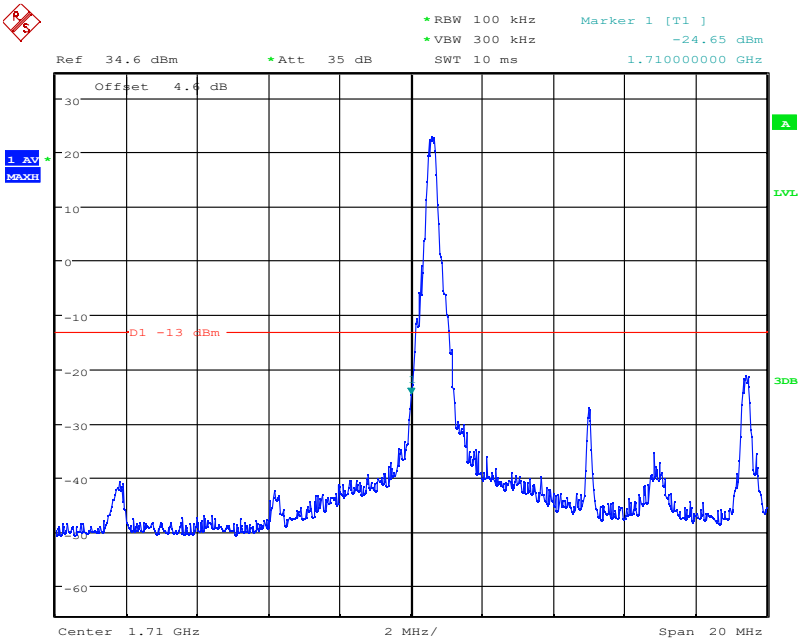
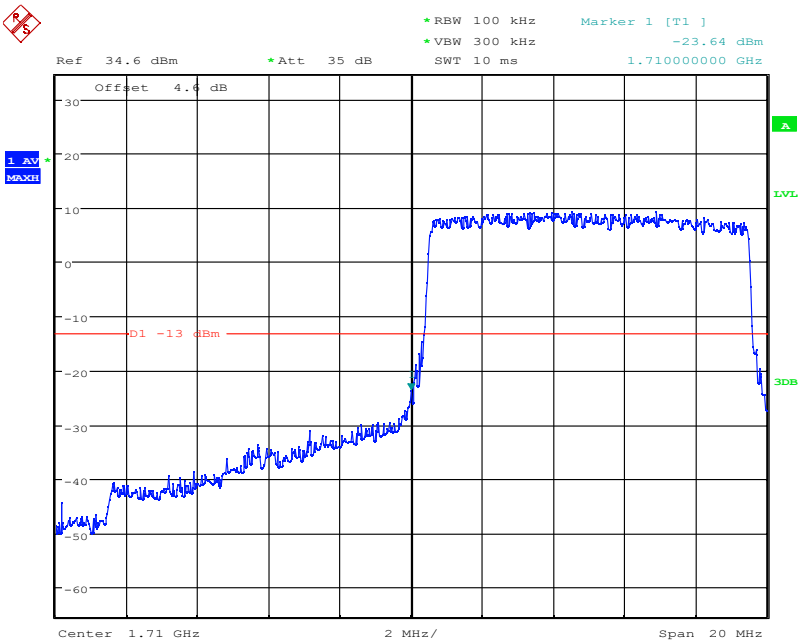
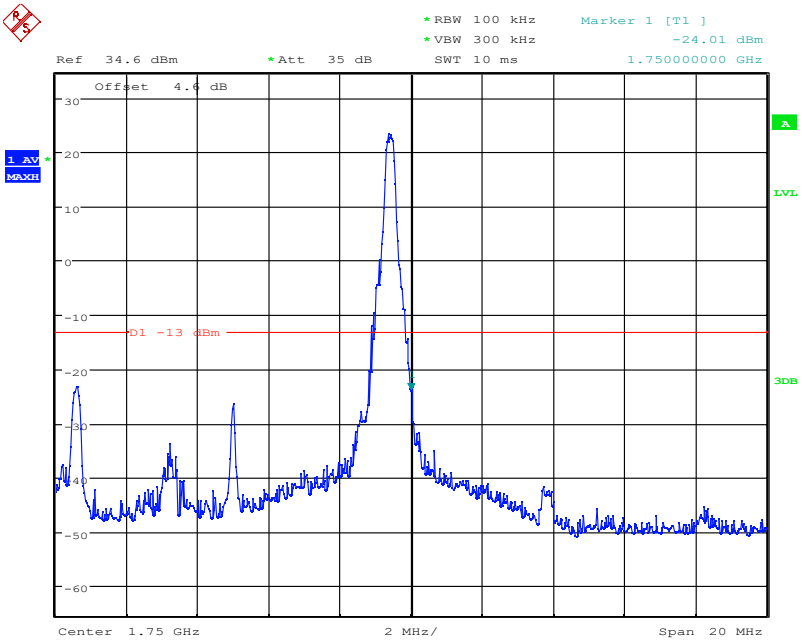
LTE Band4, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 1755MHz



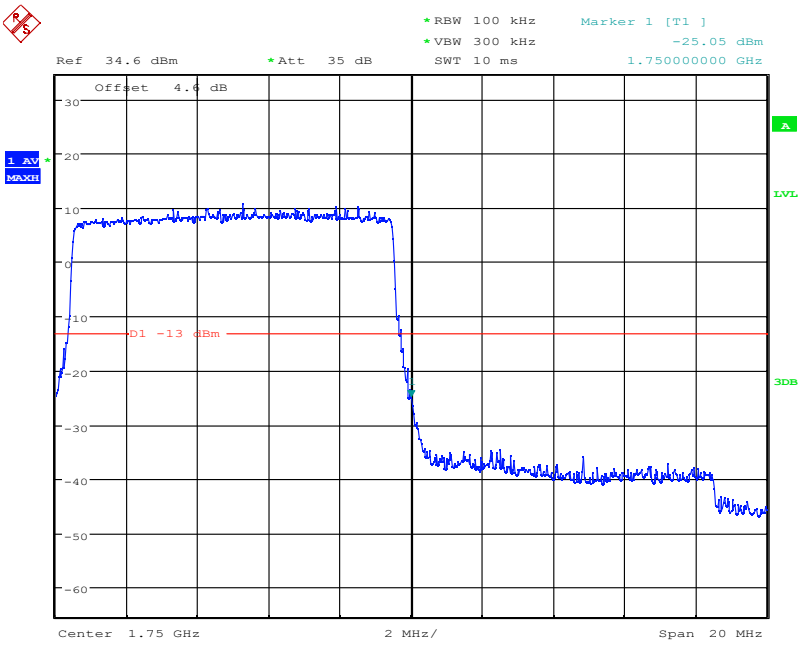
LTE Band4, 10MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



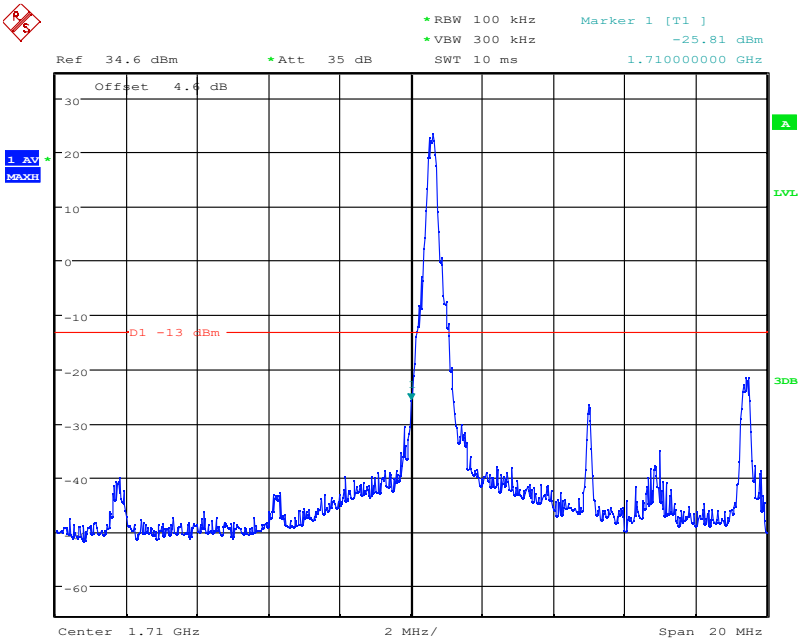
LTE Band4, 10MHz bandwidth, QPSK,(50,0) Mode , Below 1710MHz



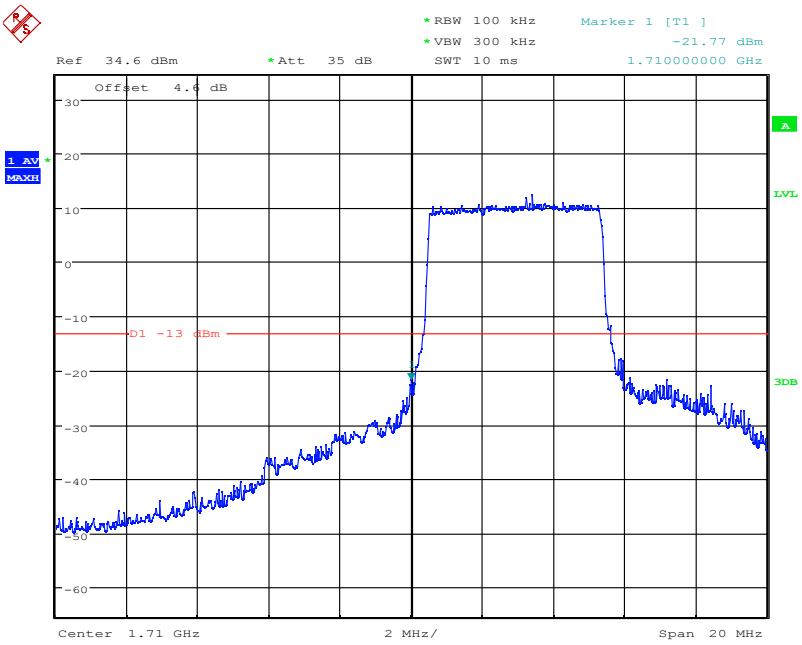
LTE Band4, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1755MHz



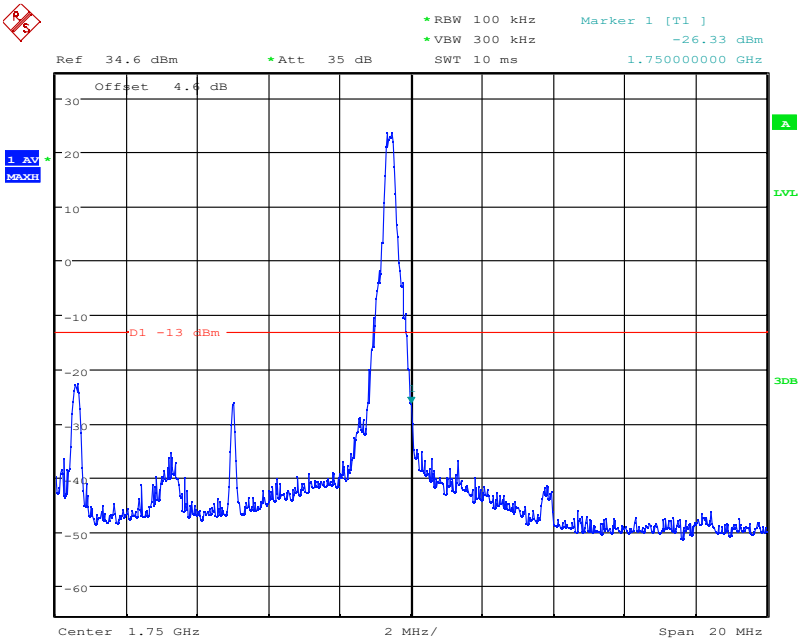
LTE Band4, 10MHz bandwidth, QPSK,(50,0) Mode, Above 1755MHz



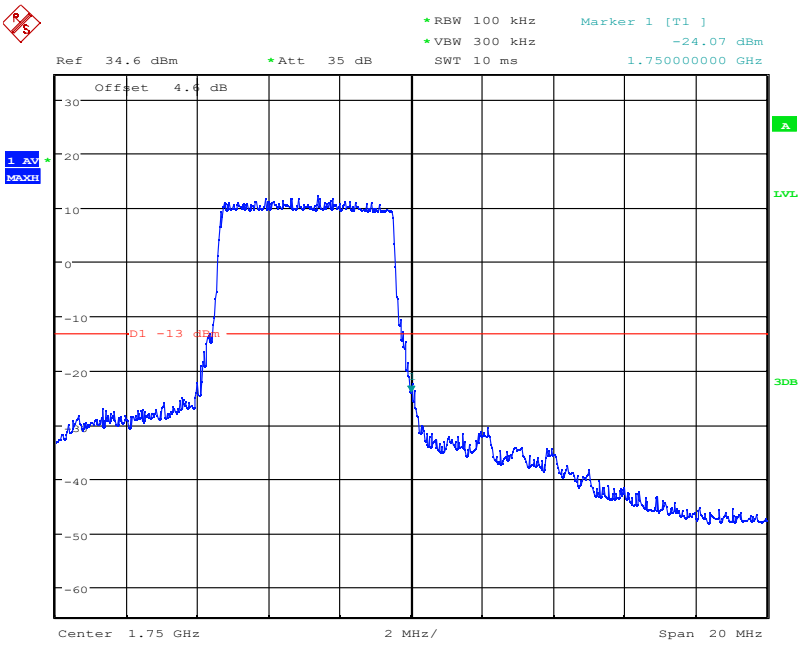
LTE Band4, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



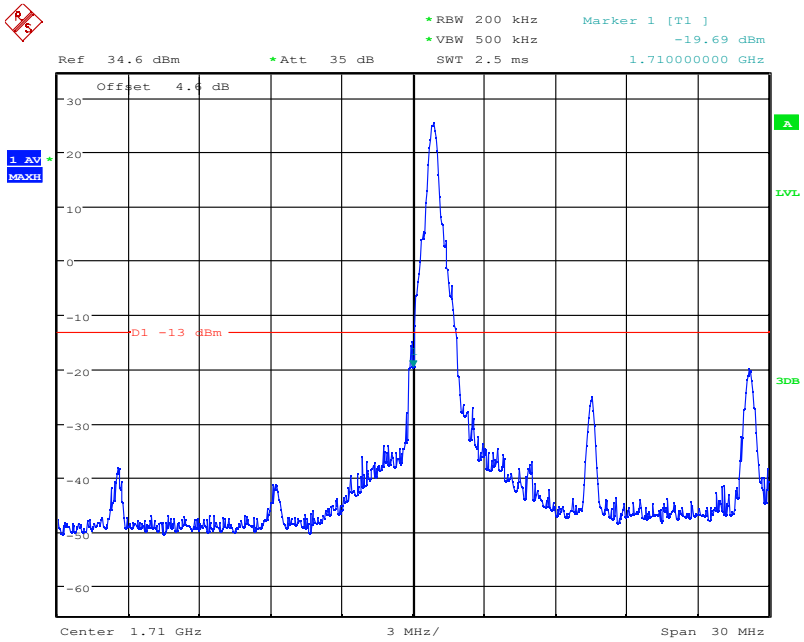
LTE Band4, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz



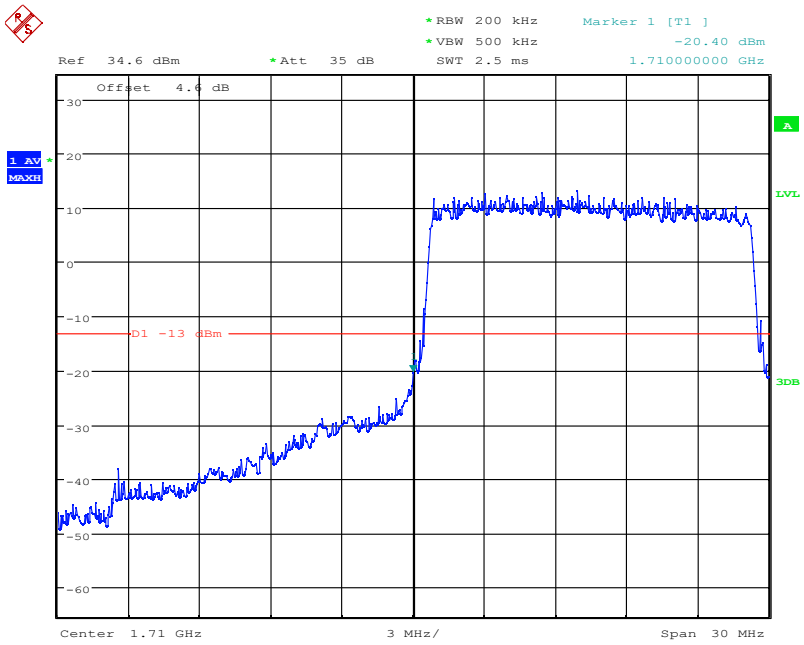
LTE Band4, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1755MHz



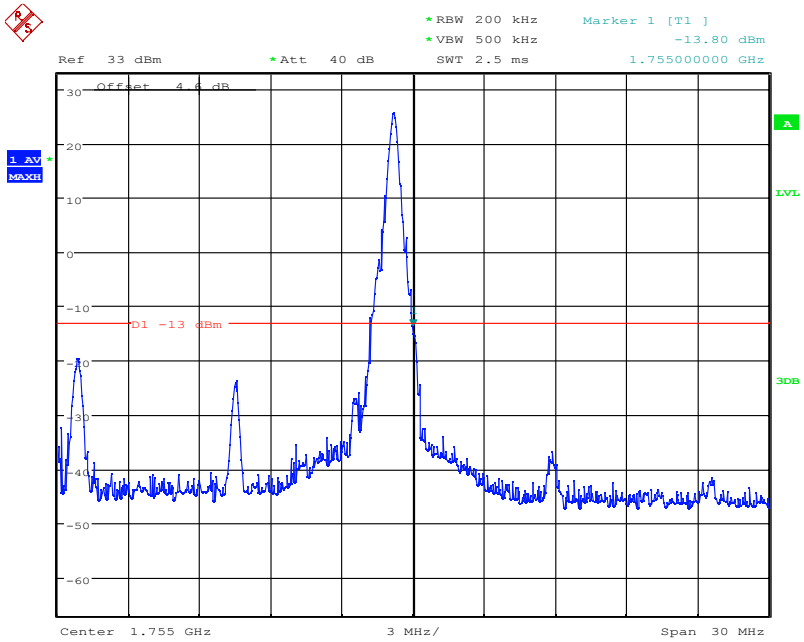
LTE Band4, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz



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



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



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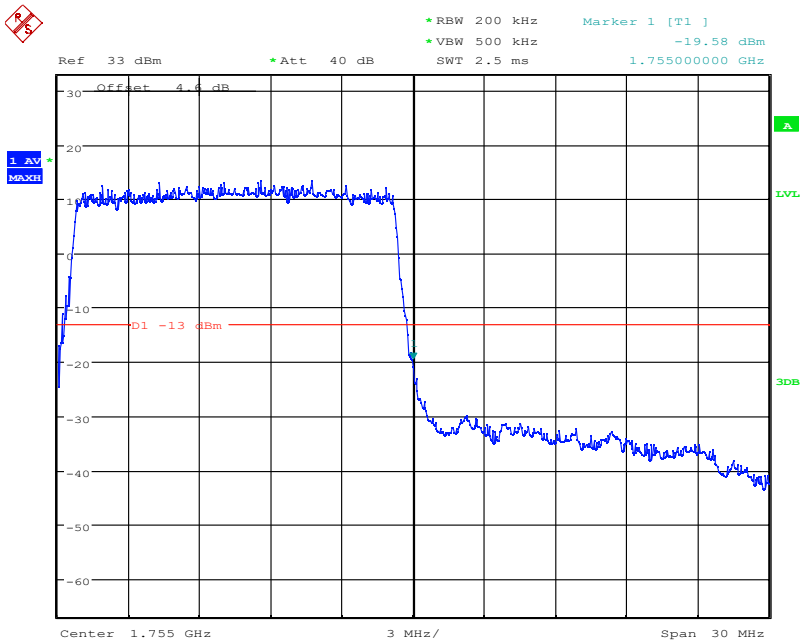
LTE Band4, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1755MHz



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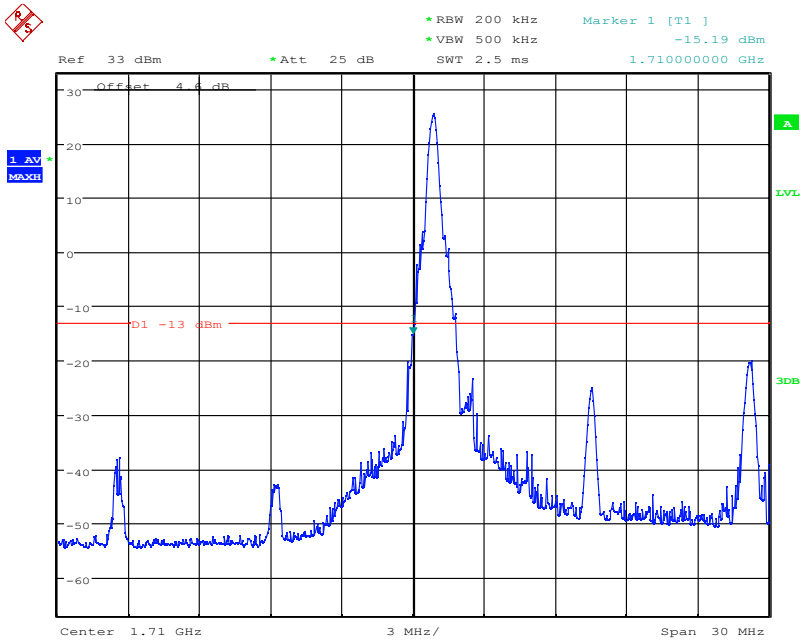
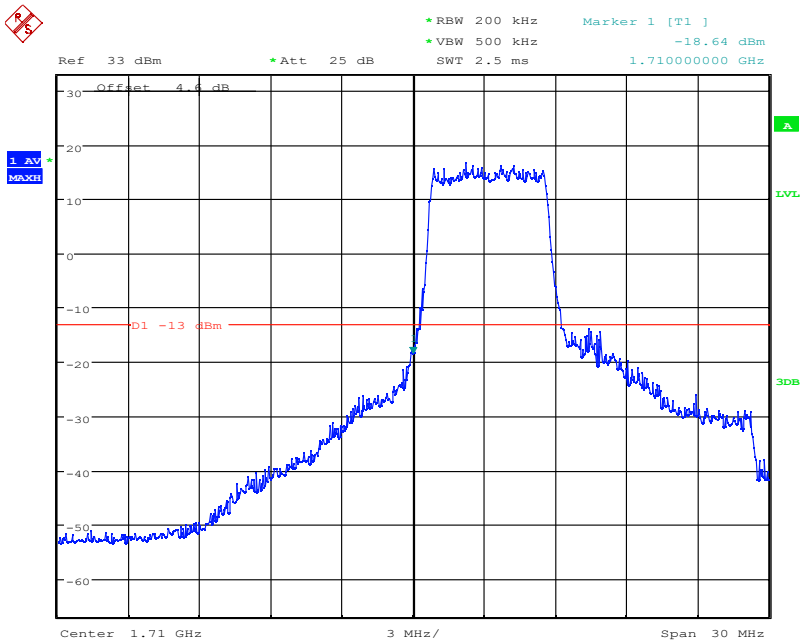
LTE Band4, 15MHz bandwidth, QPSK,(75,0) Mode, Above 1755MHz



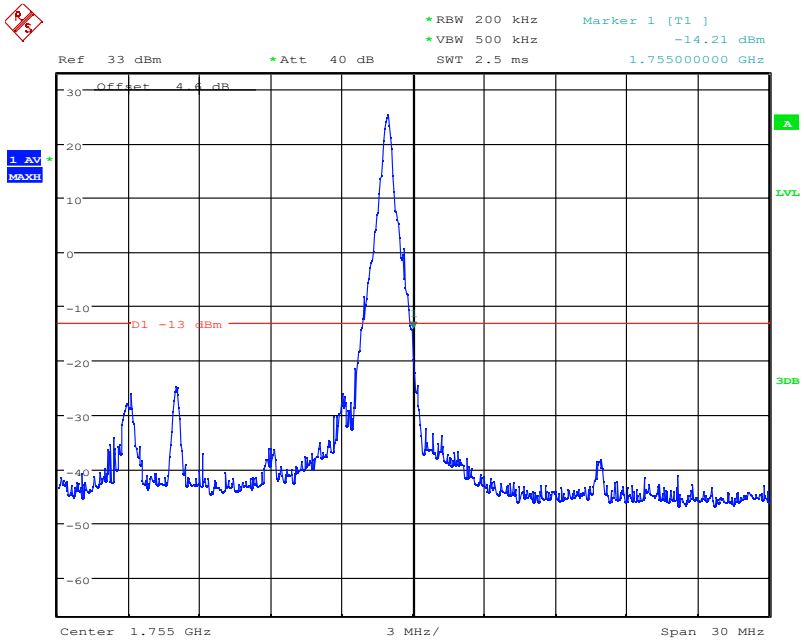
Date: 13.DEC.2021 11:43:59

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



Date: 13.DEC.2021 11:43:36

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



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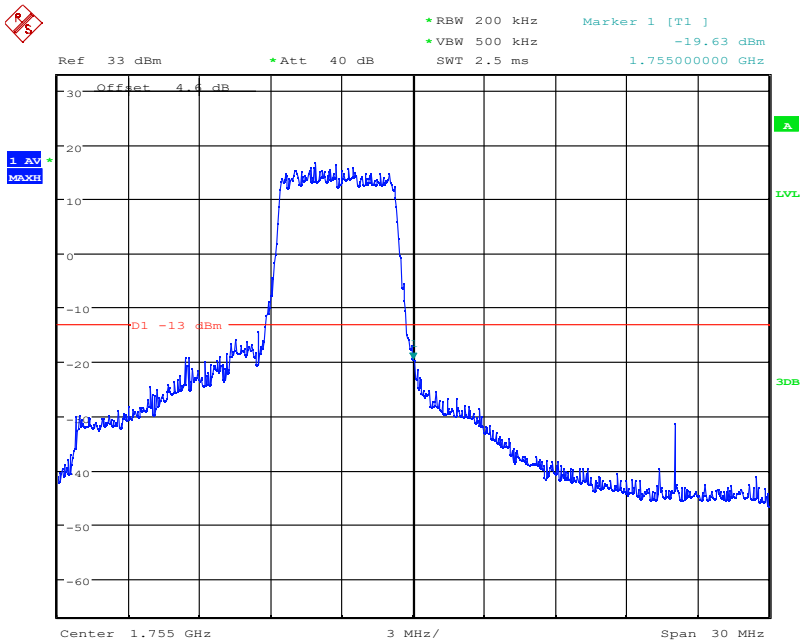
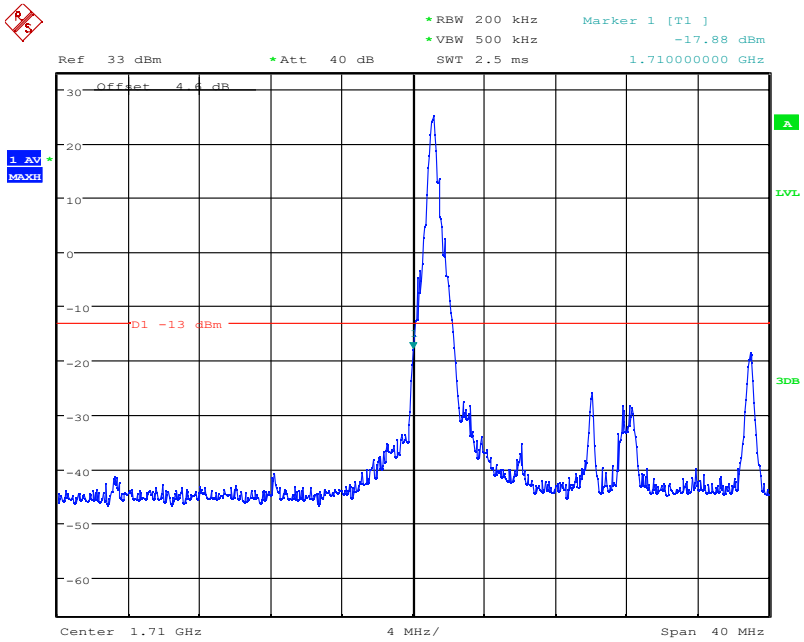
LTE Band4, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1755MHz

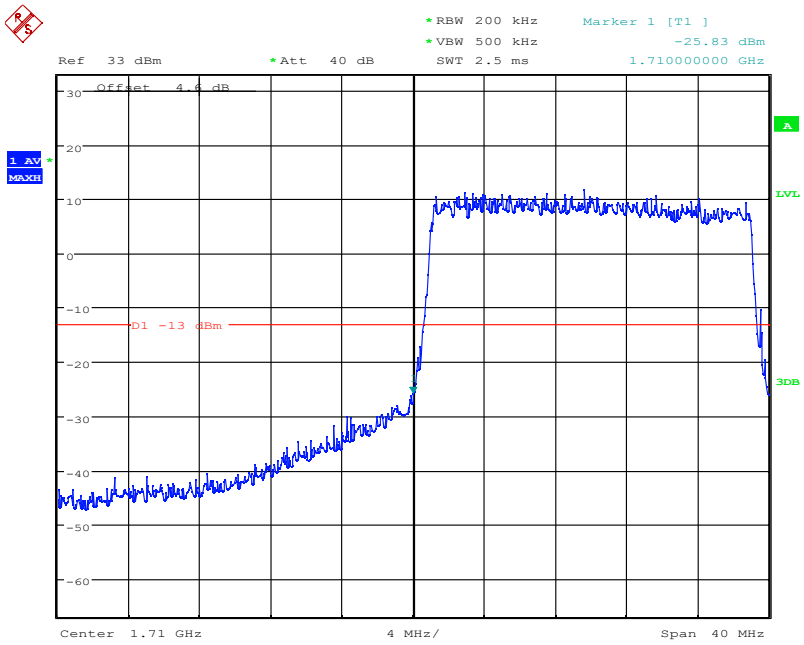


Date: 13.DEC.2021 11:46:57

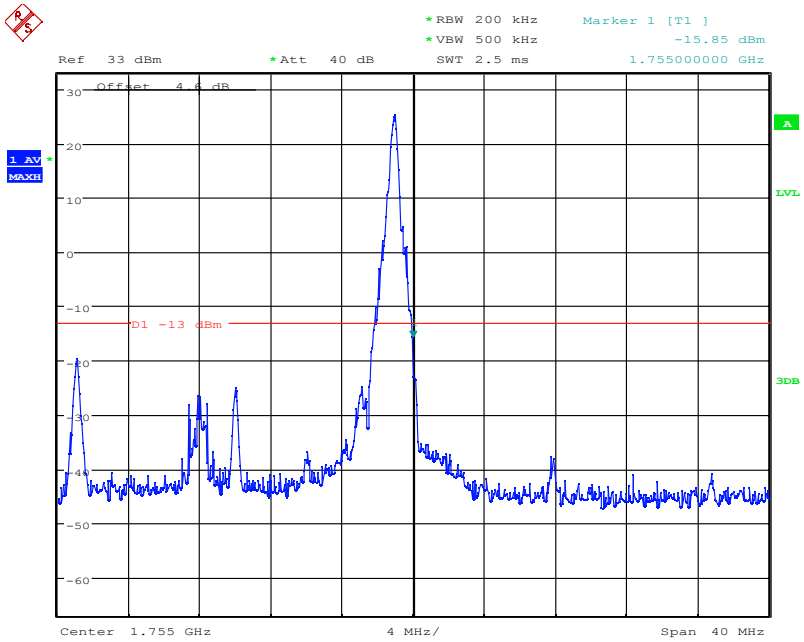
LTE Band4, 15MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz



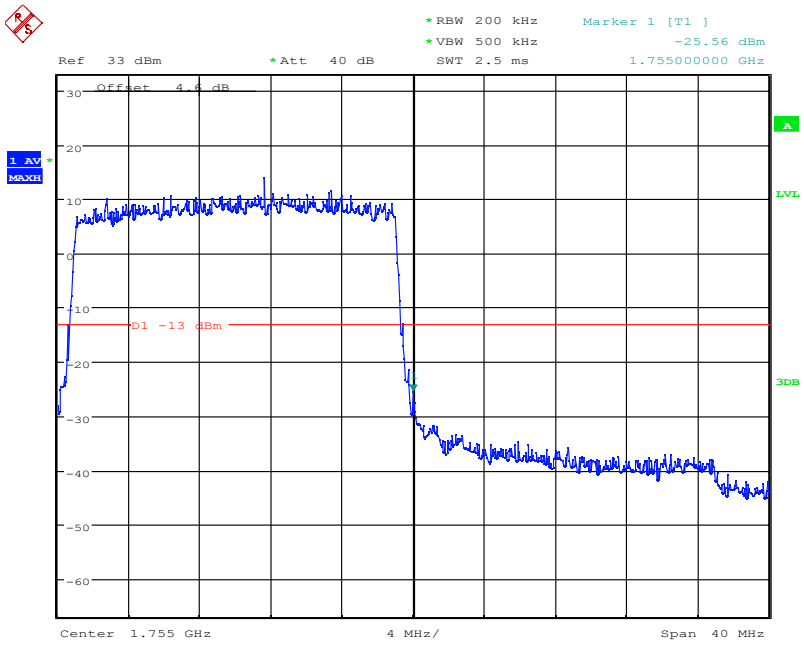
LTE Band4, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



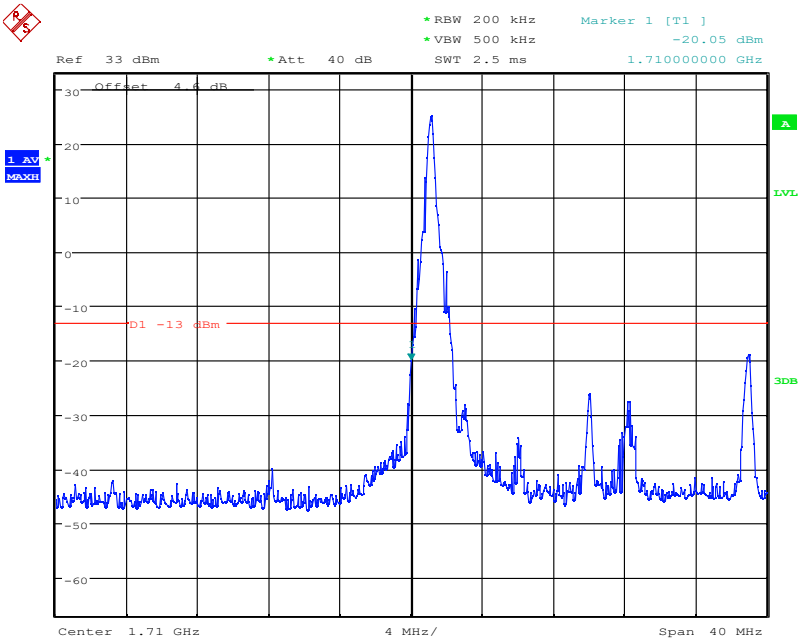
LTE Band4, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1710MHz



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

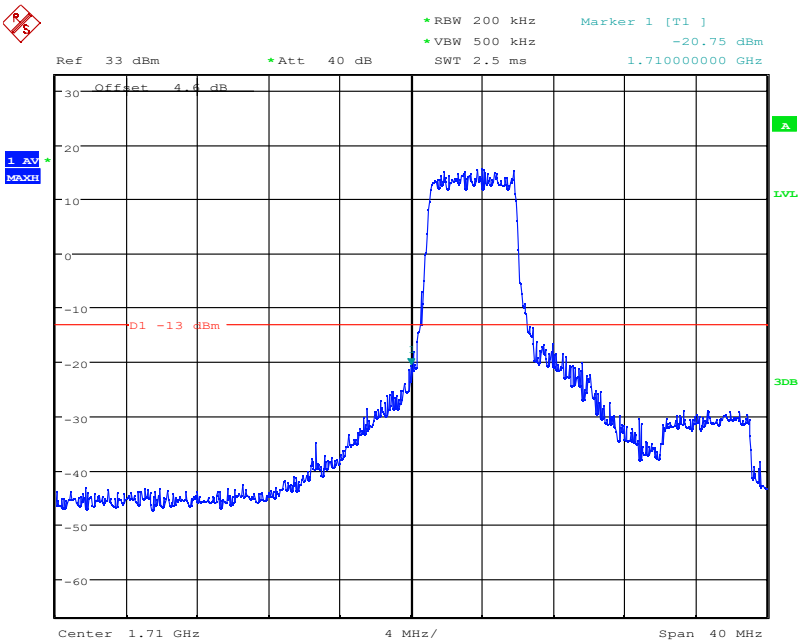


LTE Band4, 20MHz bandwidth, QPSK,(100,0) Mode, Above 1755MHz



Date: 13.DEC.2021 12:11:37

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



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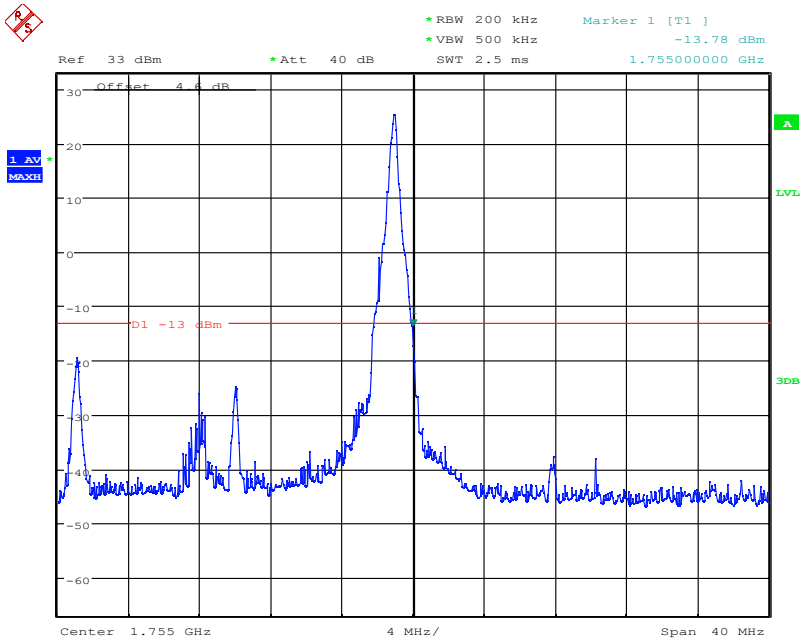
LTE Band4, 20MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz



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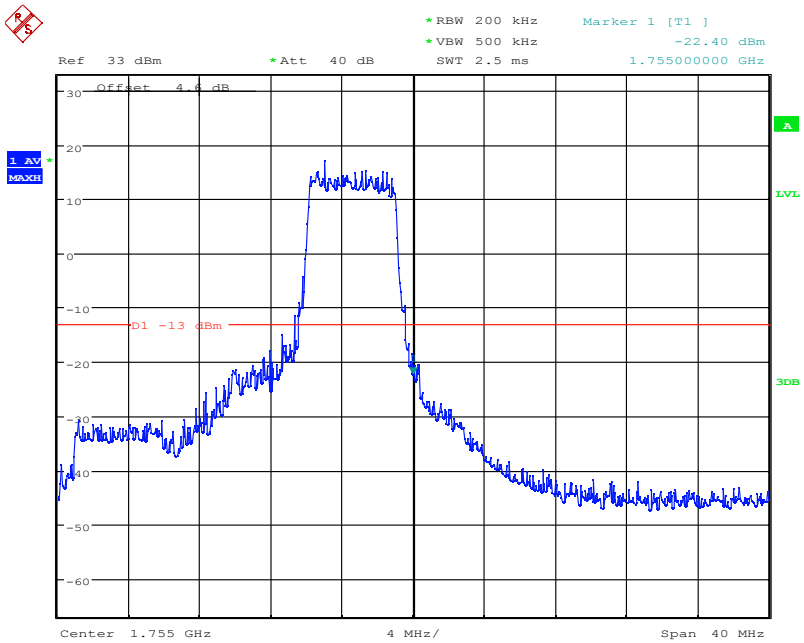
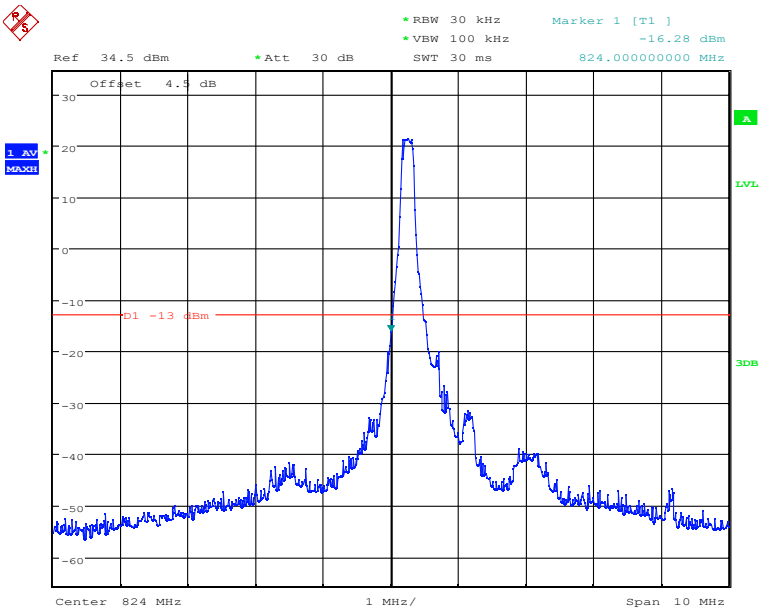
LTE Band4, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1755MHz



Date: 13.DEC.2021 12:12:24

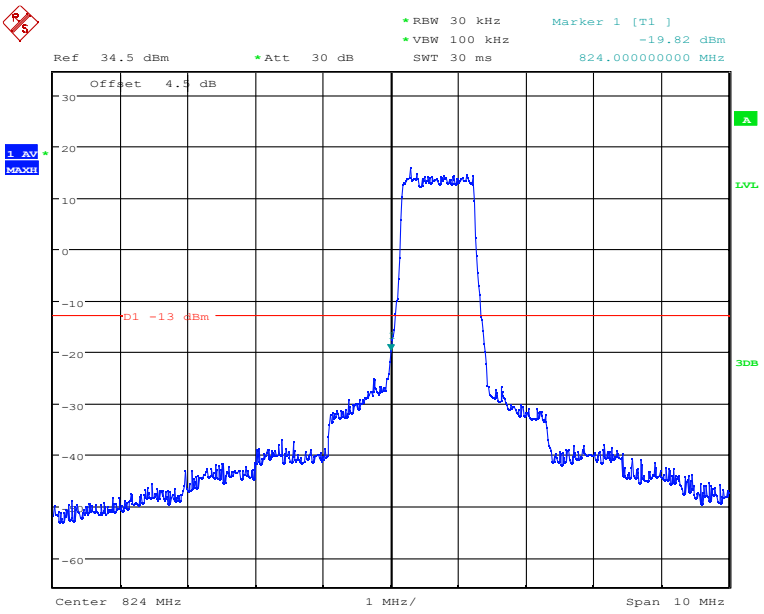
LTE Band4, 20MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz

6.7.3 LTE B5 Band Edge Results



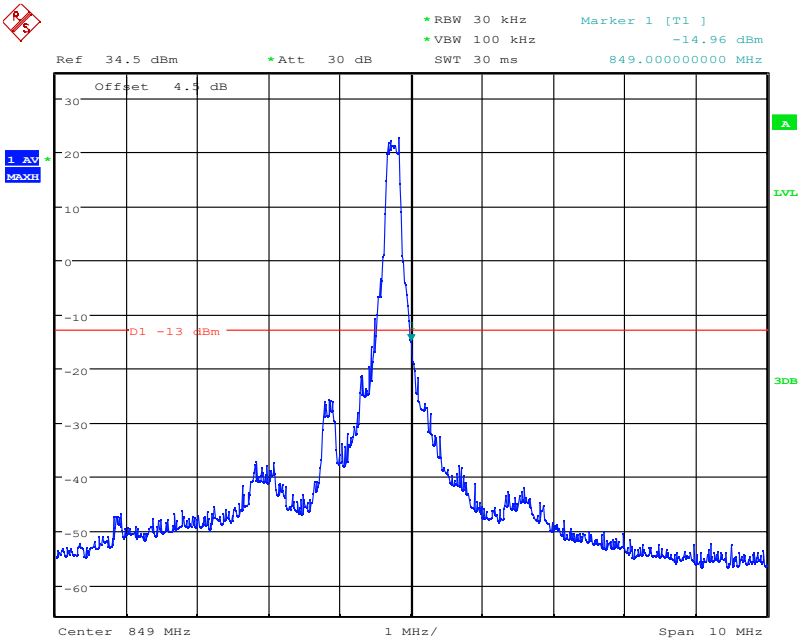
Date: 14.DEC.2021 08:18:37

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

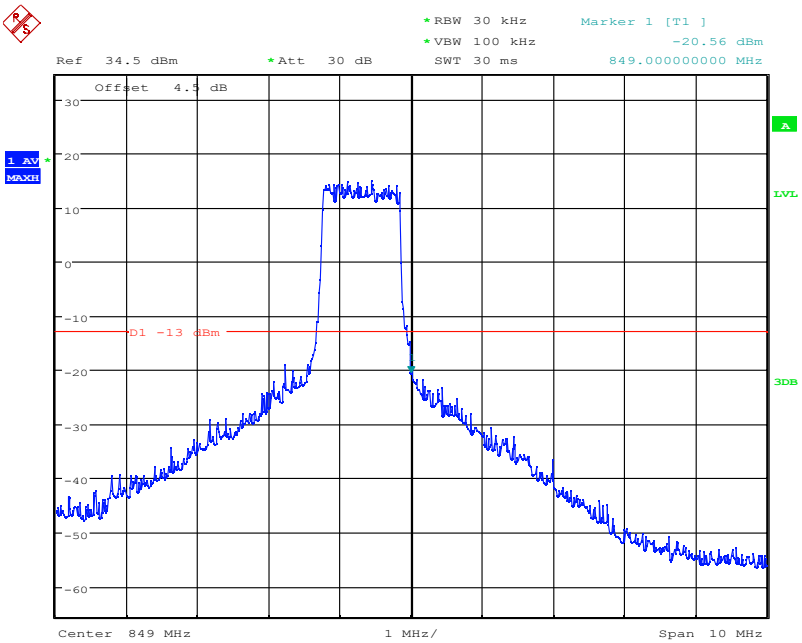


Date: 14.DEC.2021 08:18:27

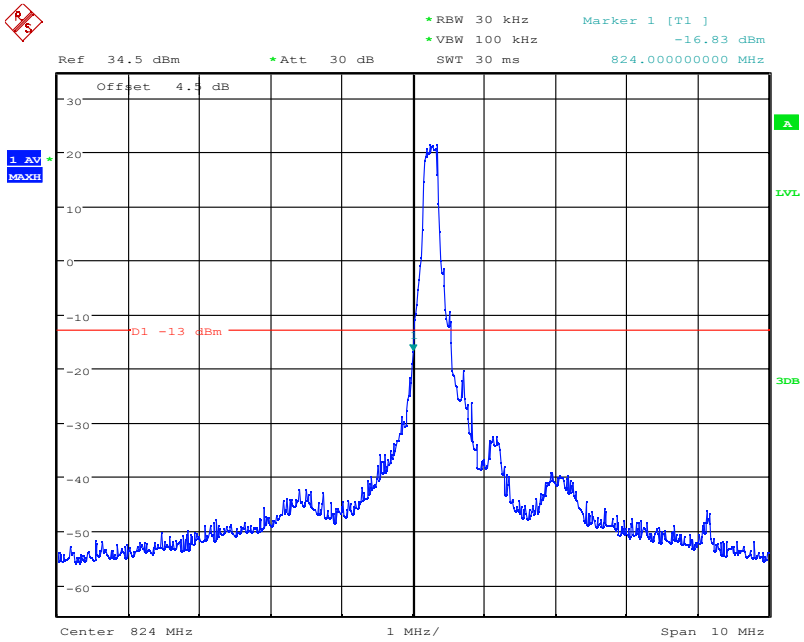
LTE Band5, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 824MHz



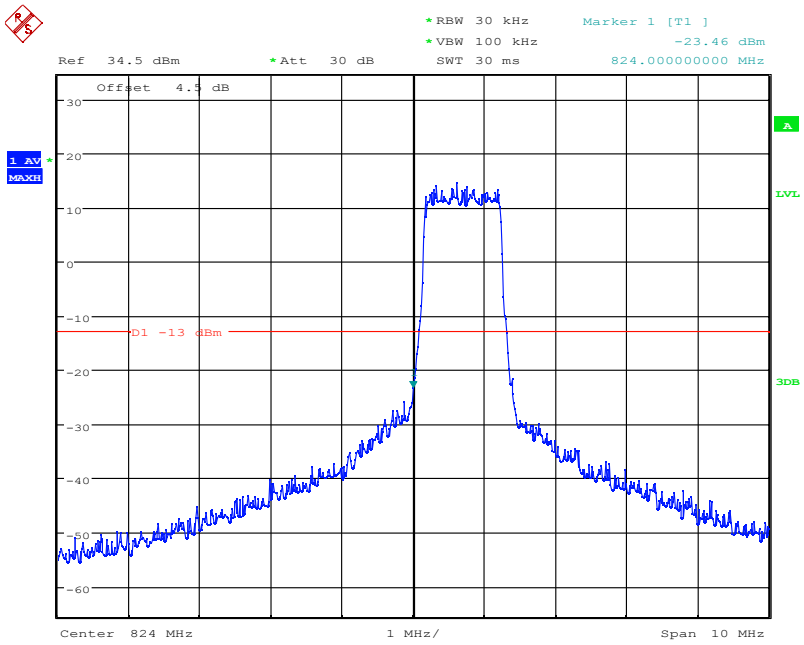
LTE Band5, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 849MHz



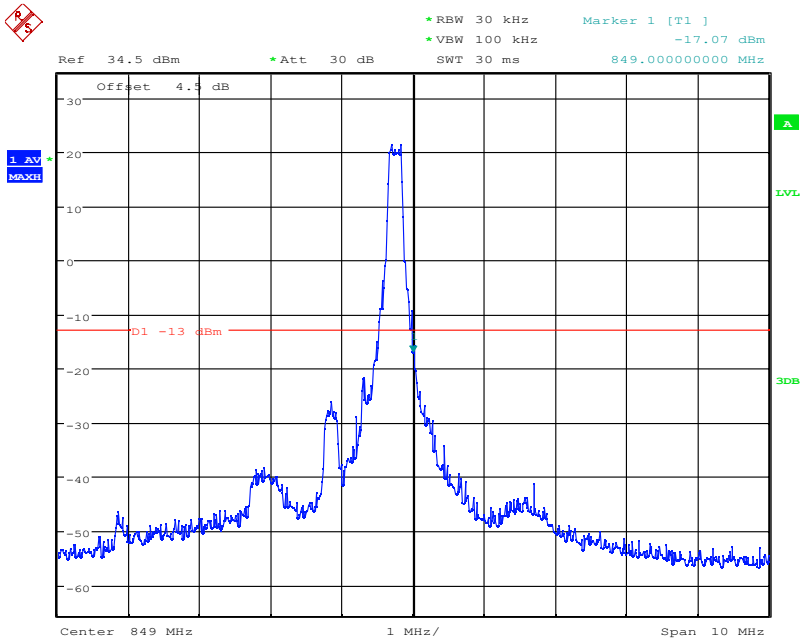
LTE Band5, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 849MHz



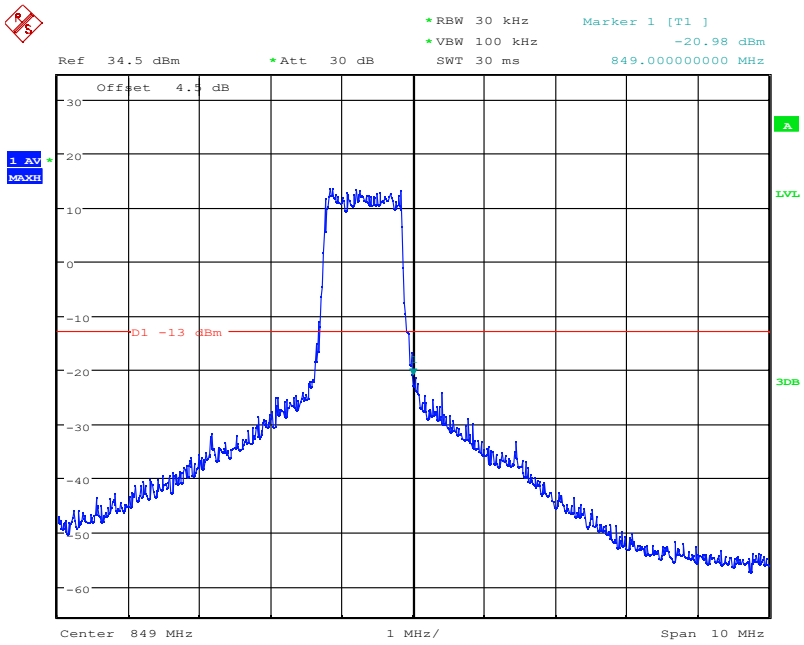
LTE Band5, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz



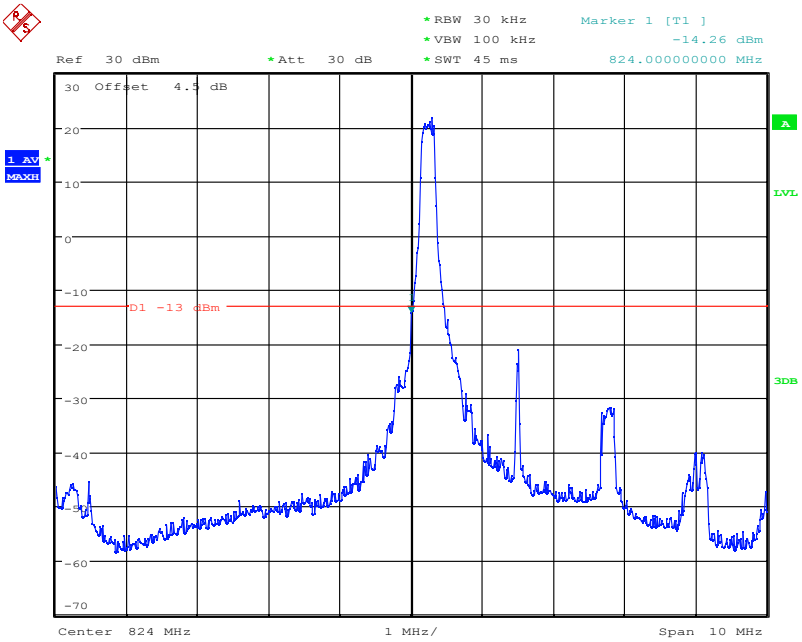
LTE Band5, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 824MHz



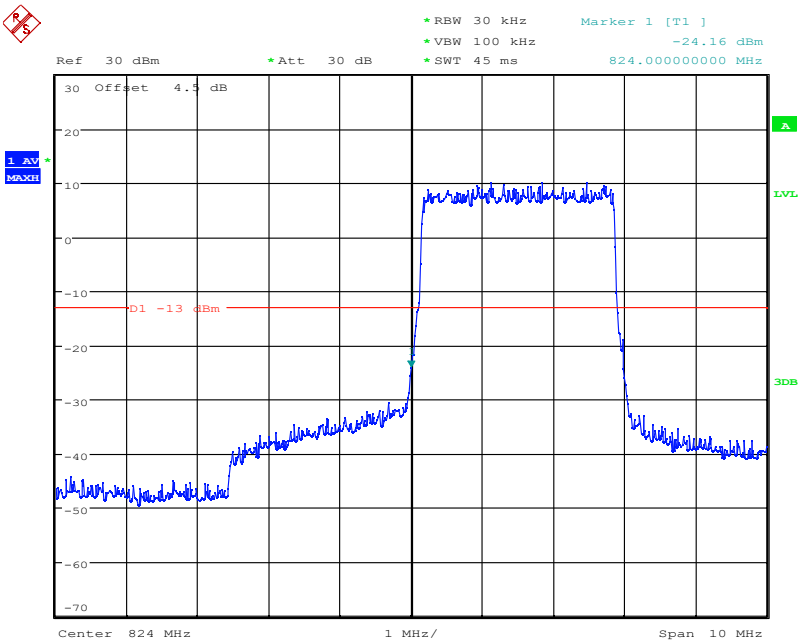
LTE Band5, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 849MHz



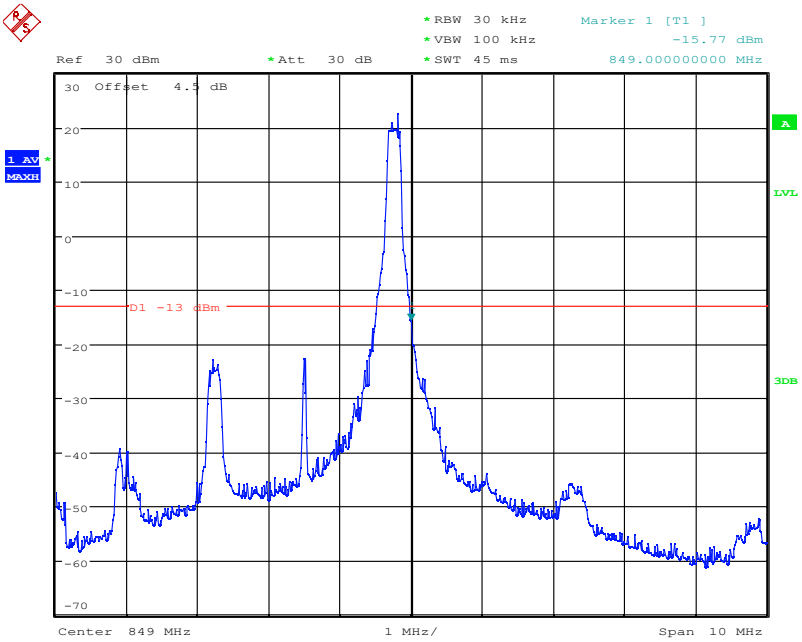
LTE Band5, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 849MHz



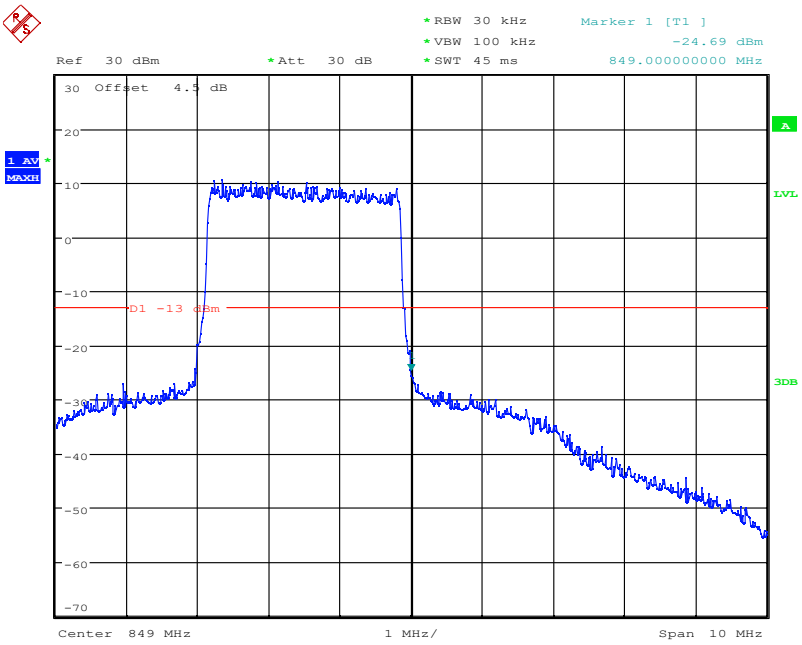
LTE Band5, 3MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



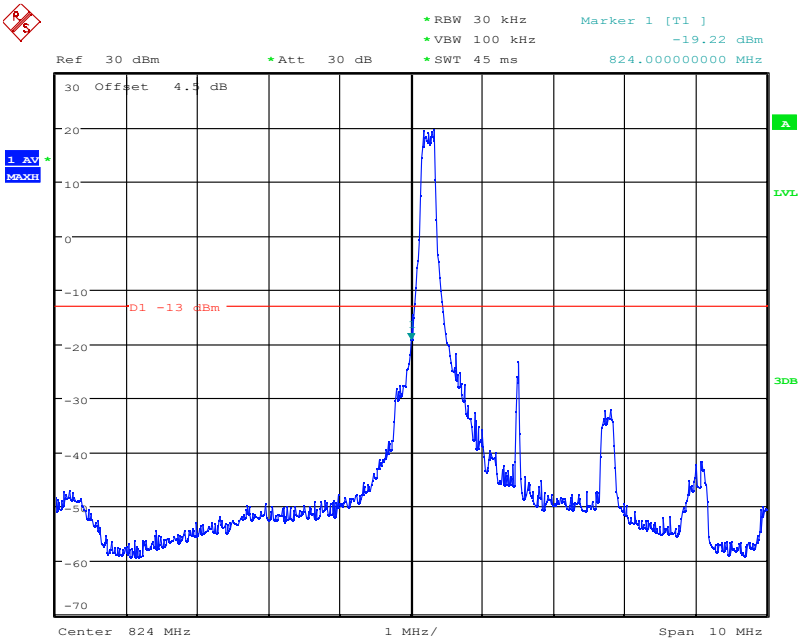
LTE Band5, 3MHz bandwidth, QPSK,(15,0) Mode , Below 824MHz



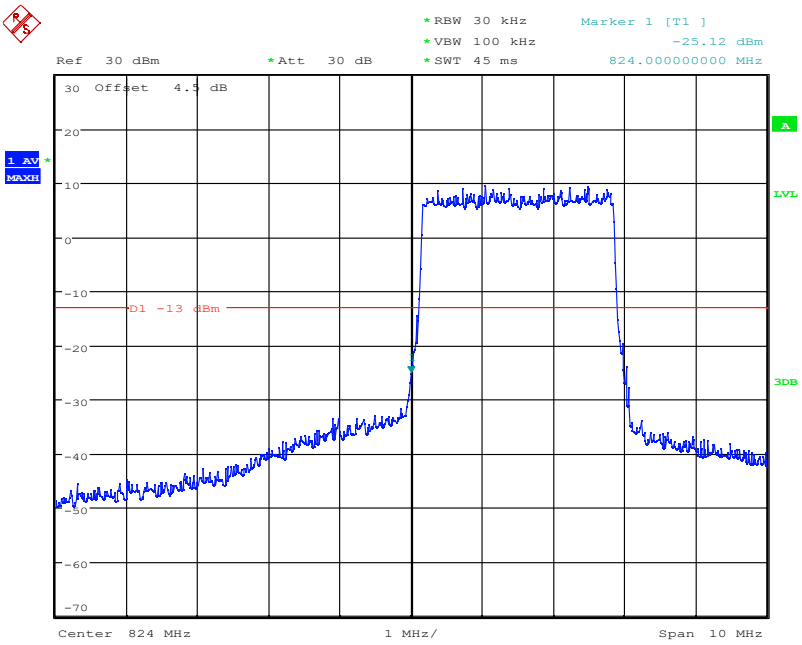
LTE Band5, 3MHz bandwidth, QPSK,(1,15) Mode, Above 849MHz



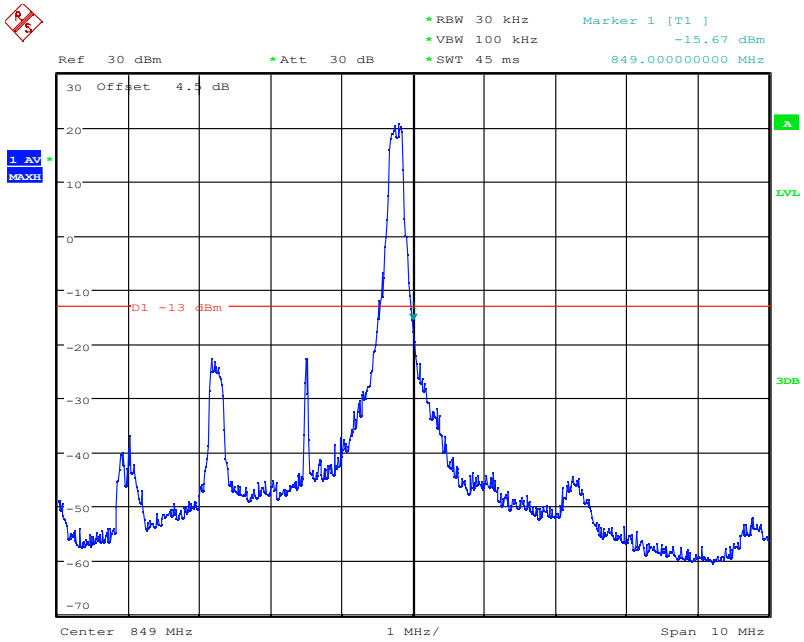
LTE Band5, 3MHz bandwidth, QPSK,(15,0) Mode, Above 849MHz



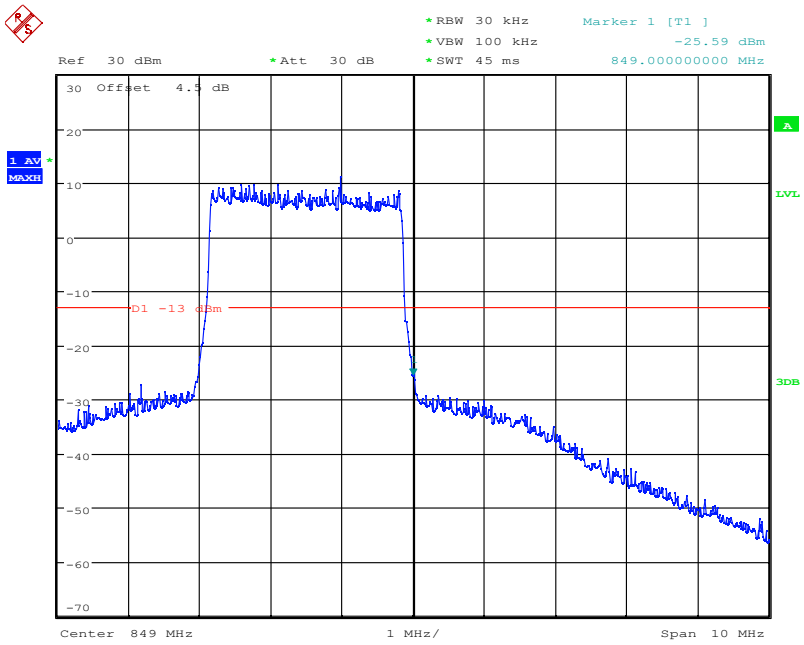
LTE Band5, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz



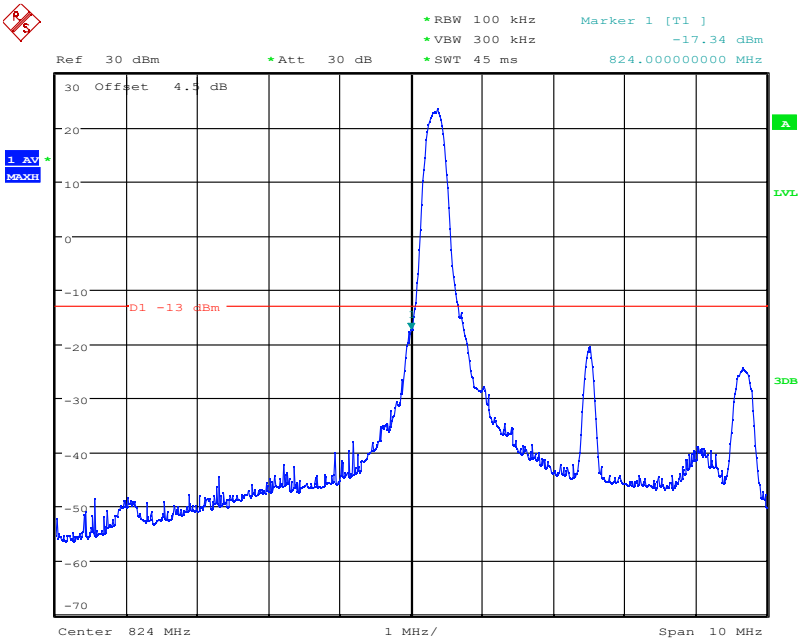
LTE Band5, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 824MHz



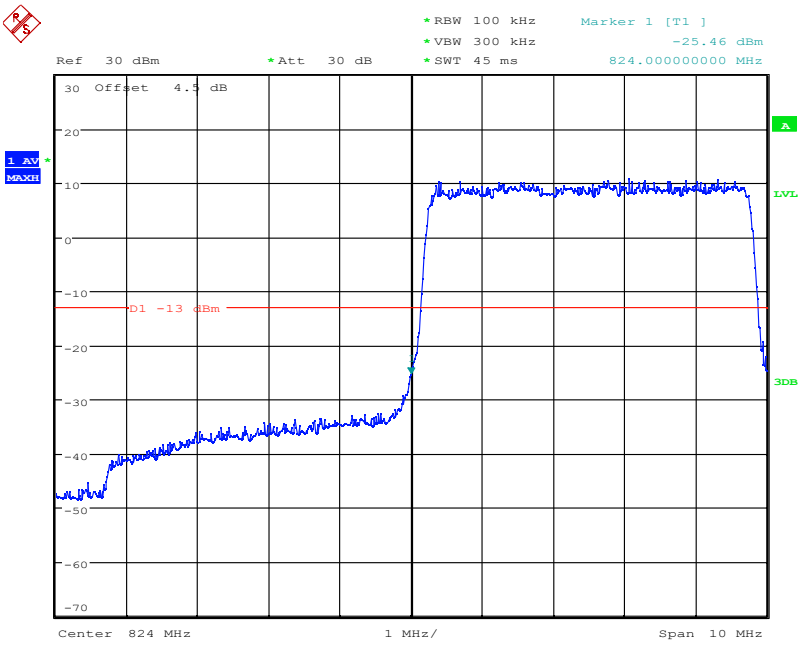
LTE Band5, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 849MHz



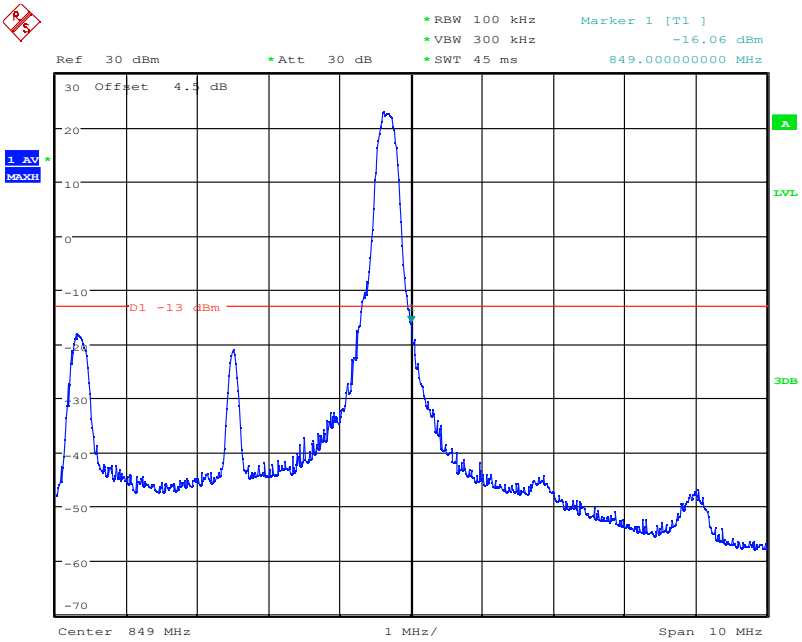
LTE Band5, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 849MHz



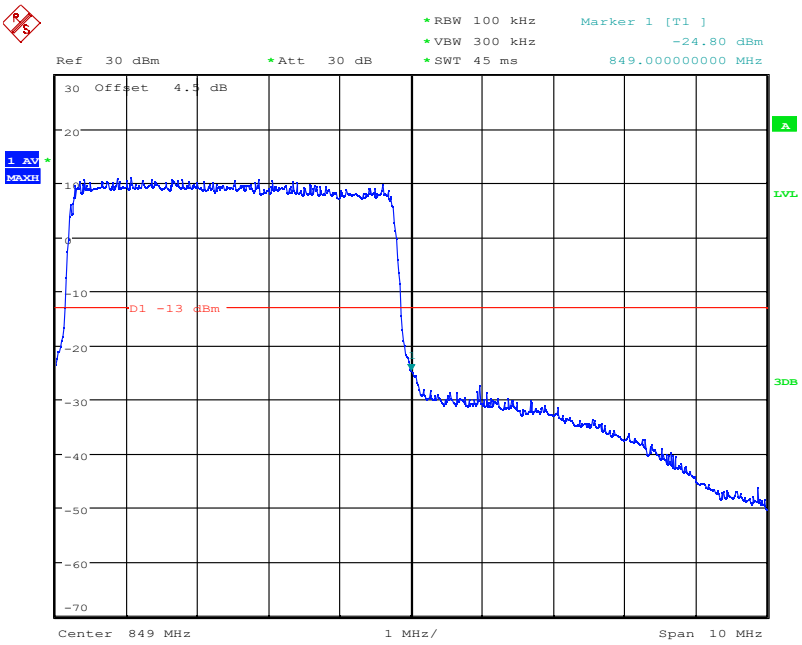
LTE Band5, 5MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



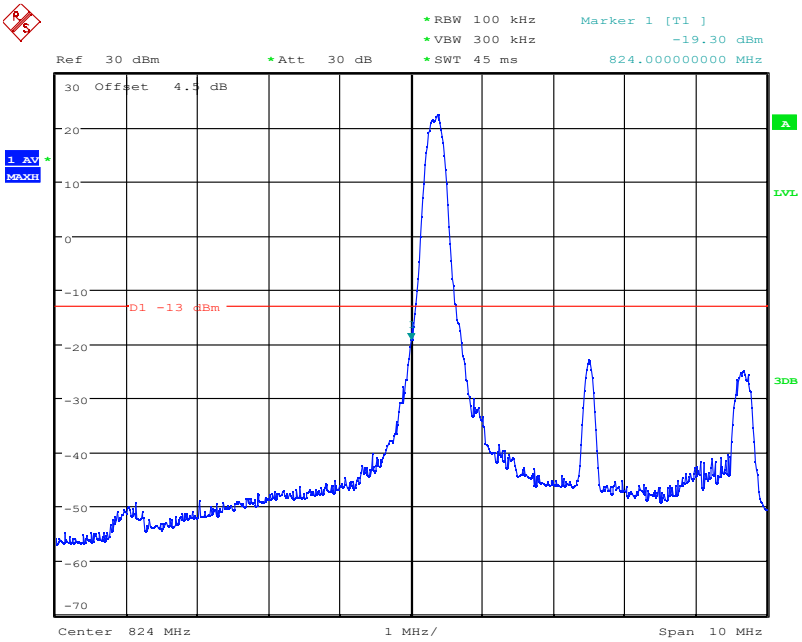
LTE Band5, 5MHz bandwidth, QPSK,(25,0) Mode , Below 824MHz



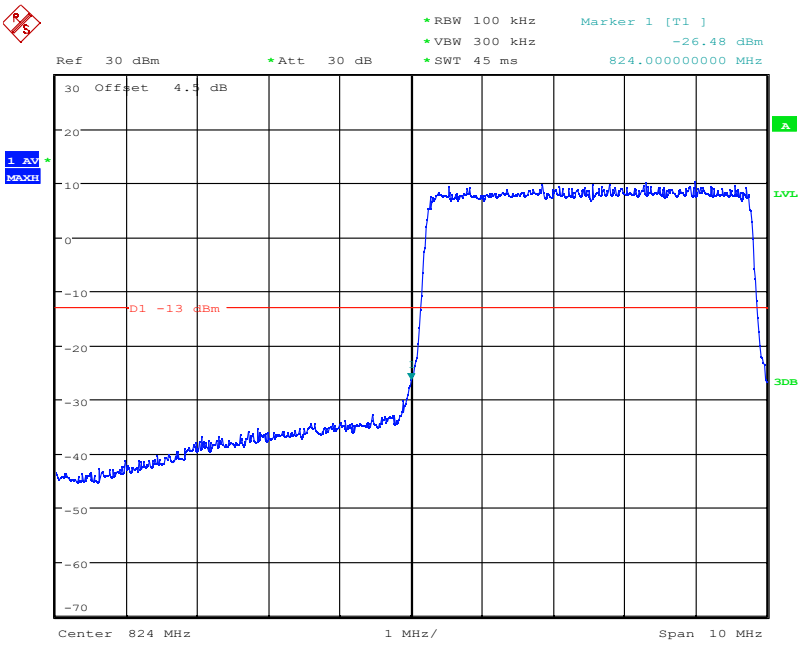
LTE Band5, 5MHz bandwidth, QPSK,(1,25) Mode, Above 849MHz



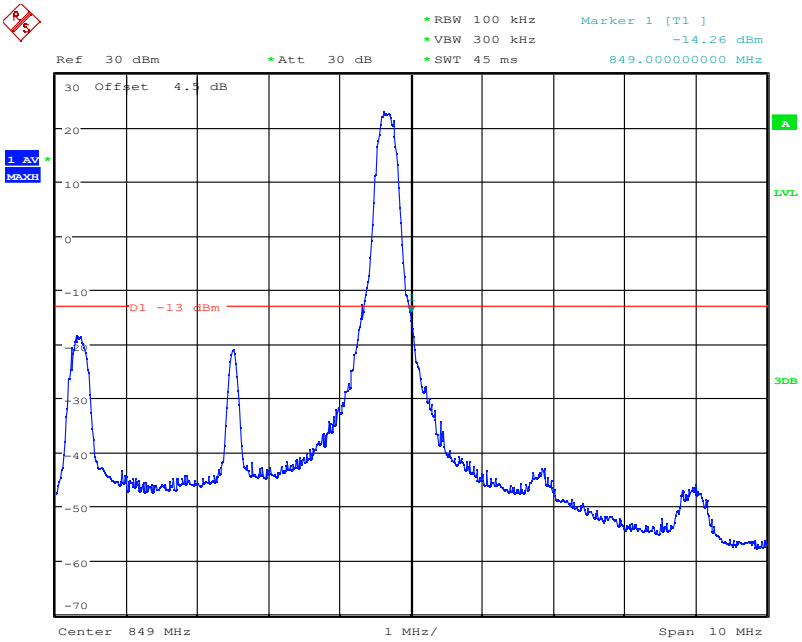
LTE Band5, 5MHz bandwidth, QPSK,(25,0) Mode, Above 849MHz



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

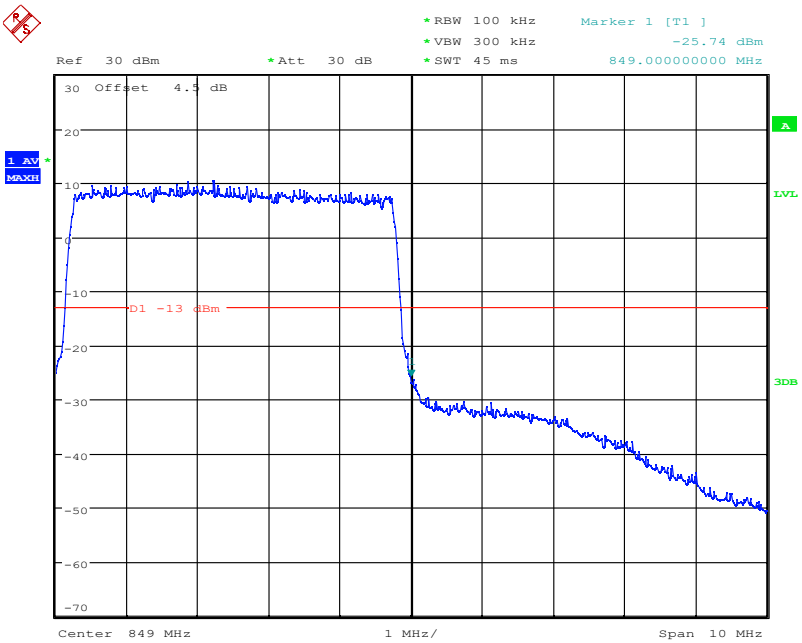


LTE Band5, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 824MHz



Date: 14.DEC.2021 08:30:12

LTE Band5, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 849MHz



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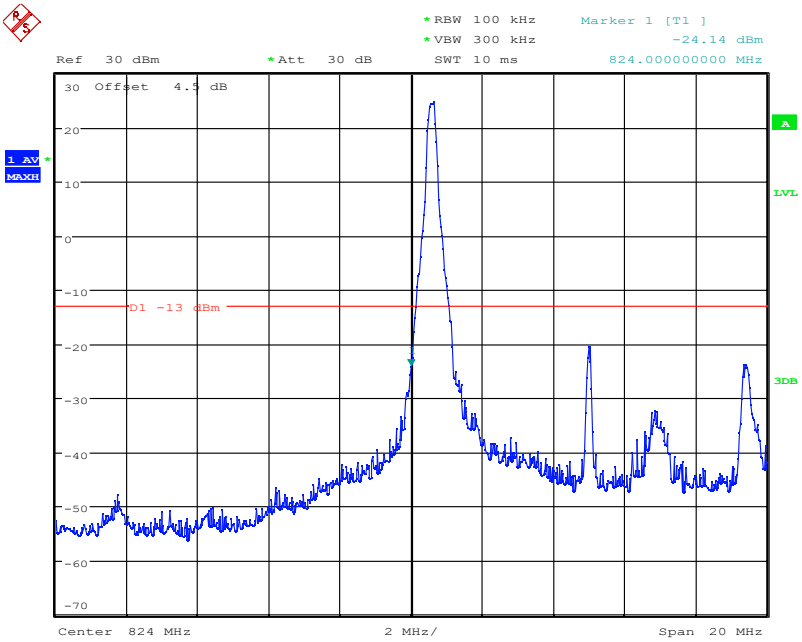
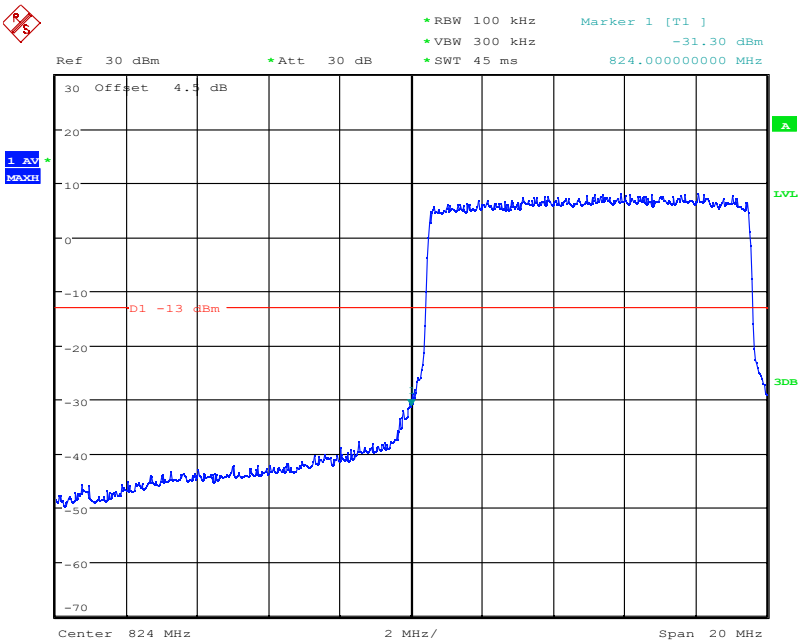
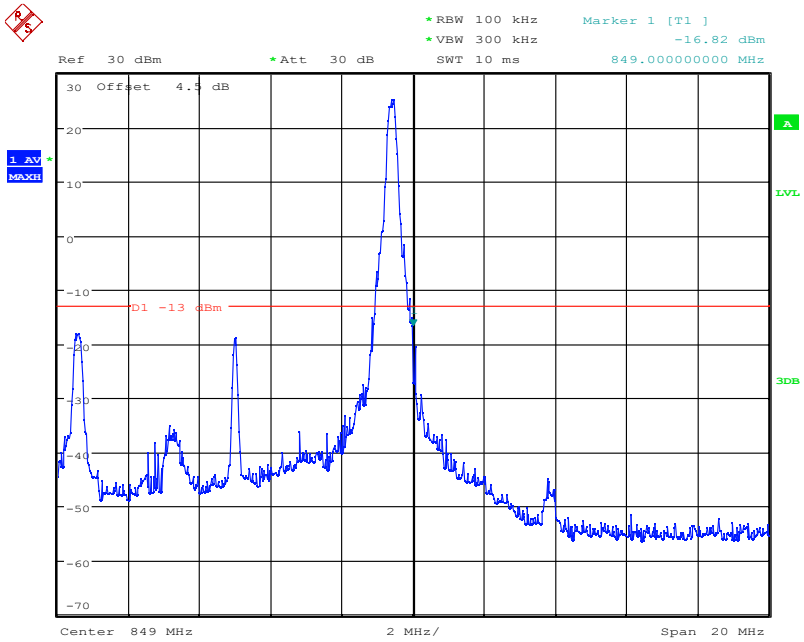
LTE Band5, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 849MHz



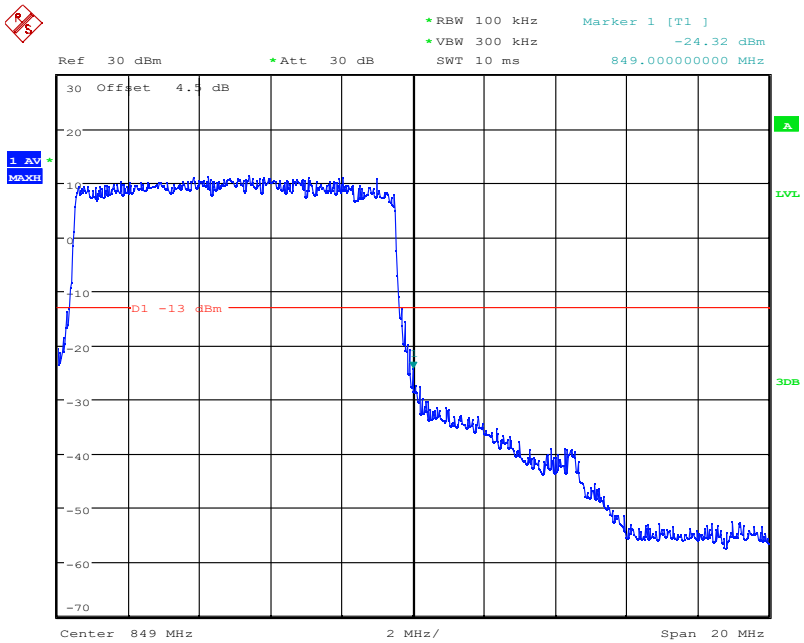
LTE Band5, 10MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



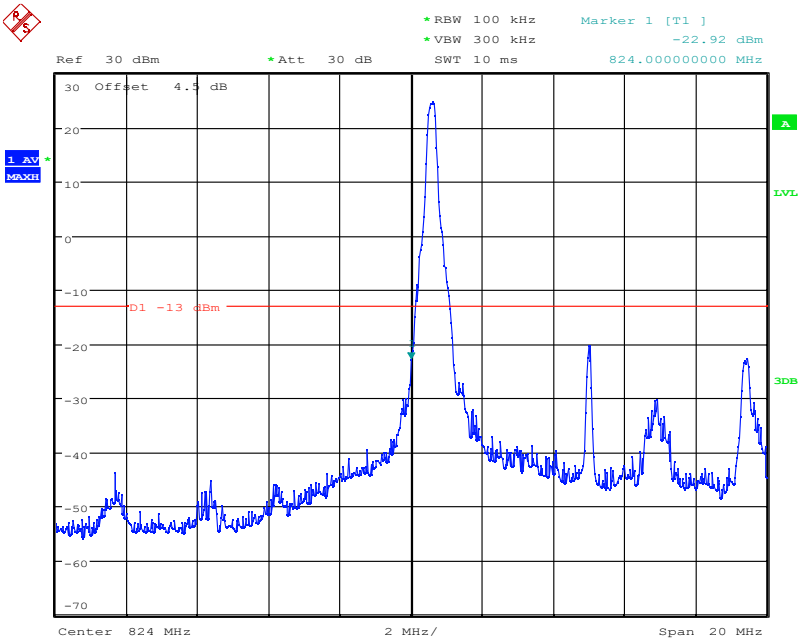
LTE Band5, 10MHz bandwidth, QPSK,(50,0) Mode , Below 824MHz



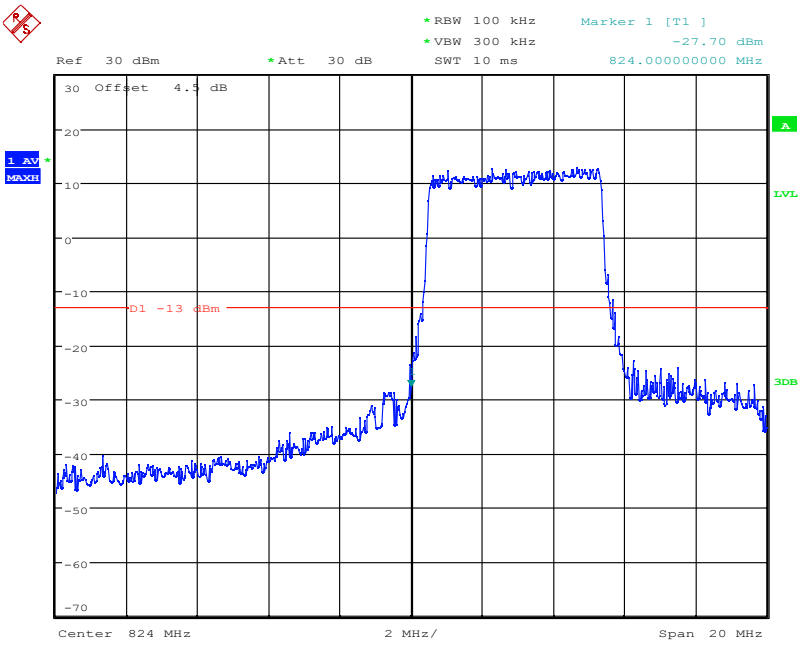
LTE Band5, 10MHz bandwidth, QPSK,(1,50) Mode, Above 849MHz



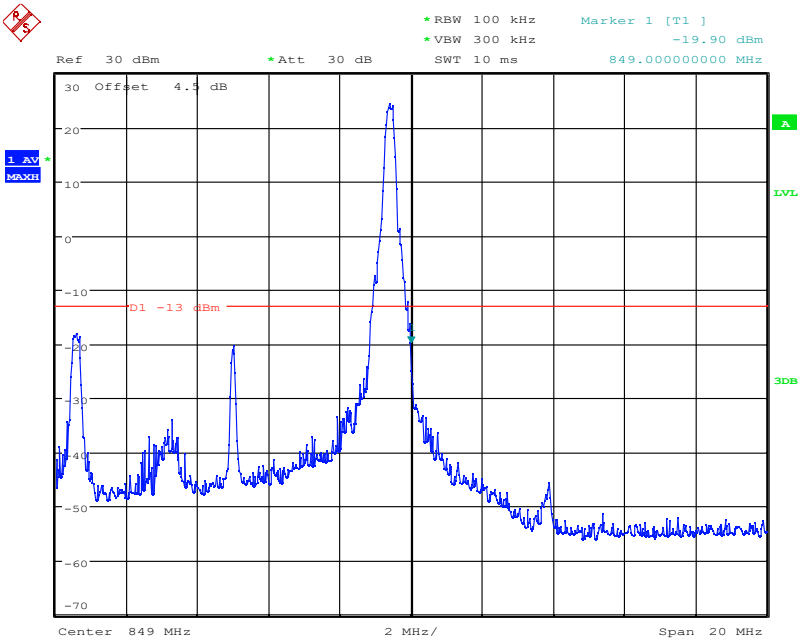
LTE Band5, 10MHz bandwidth, QPSK,(50,0) Mode, Above 849MHz



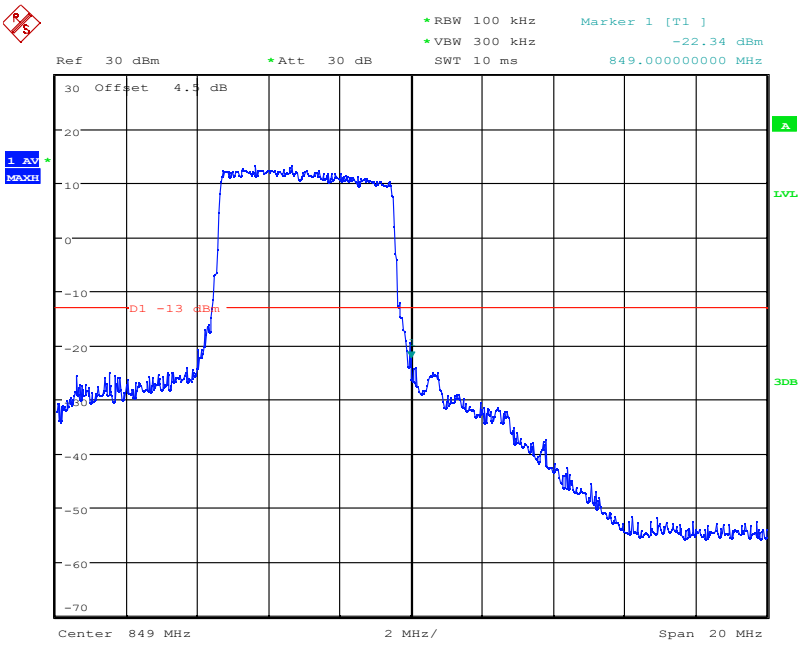
LTE Band5, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz



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

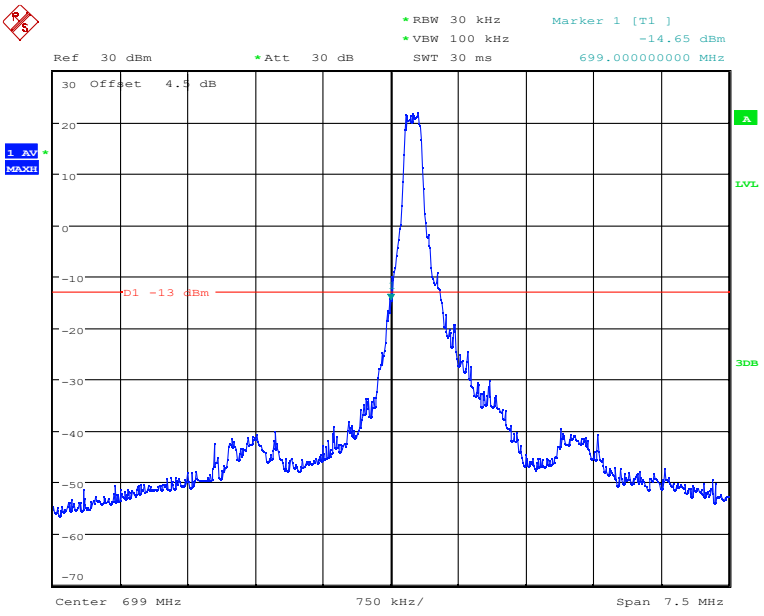


LTE Band5, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 849MHz

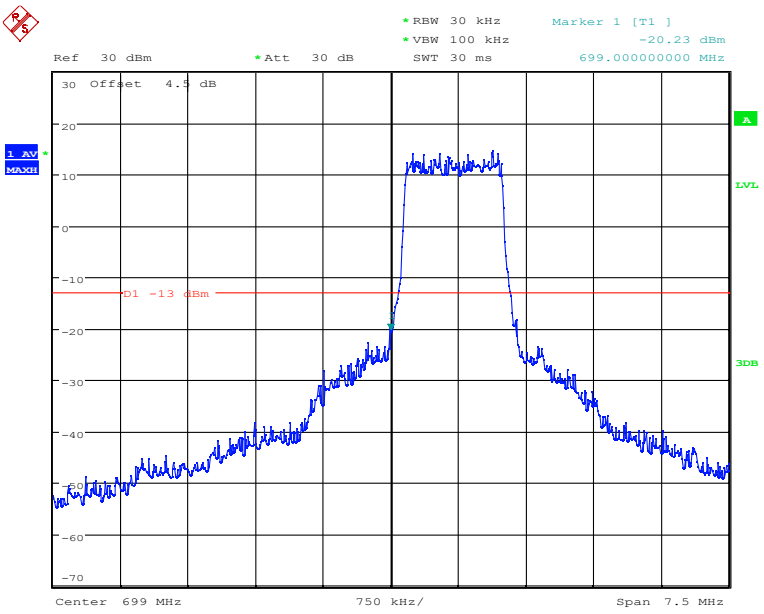


LTE Band5, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 849MHz

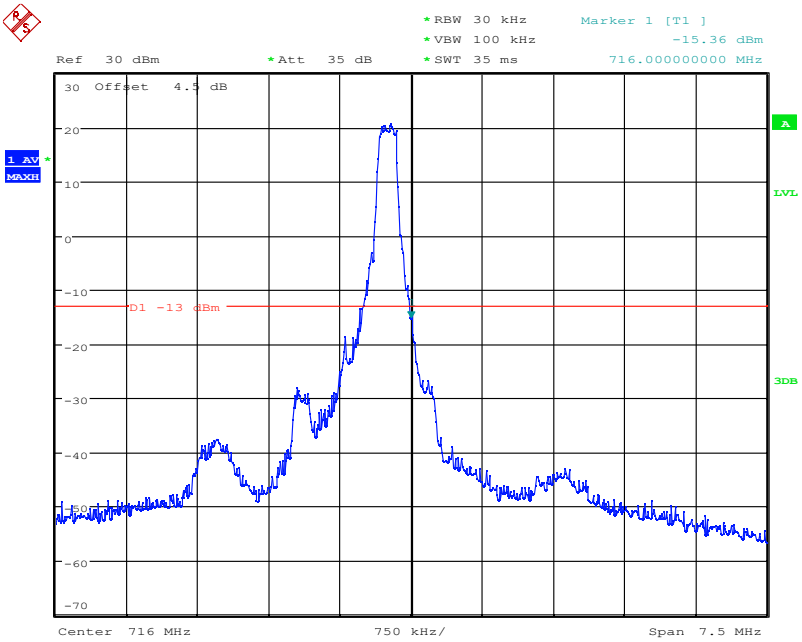
6.7.4 LTE B12 Band Edge Results



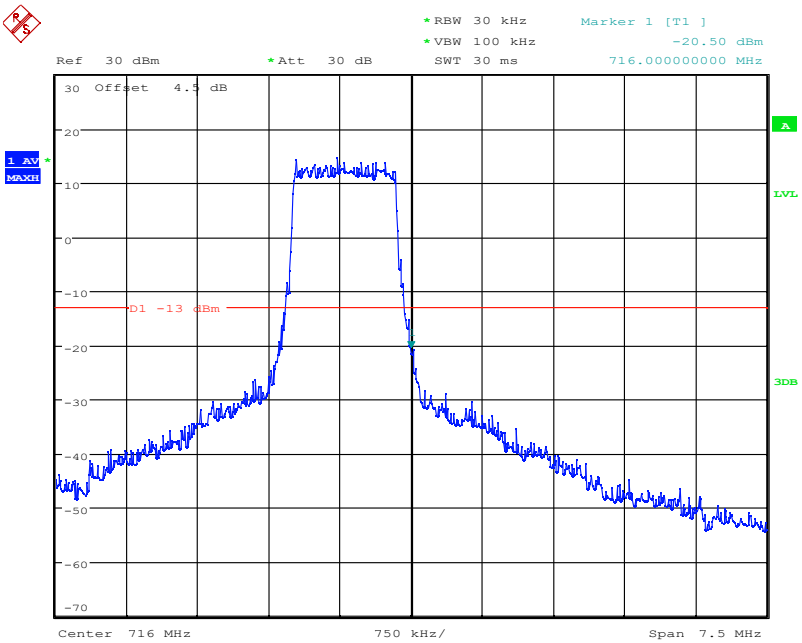
LTE Band12, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 699MHz



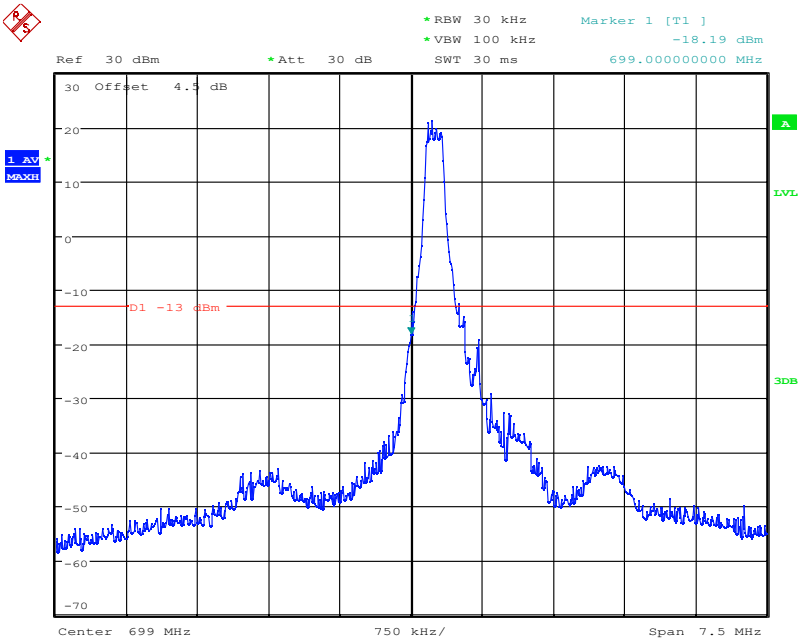
LTE Band12, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 699MHz



LTE Band12, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 716MHz



LTE Band12, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 716MHz



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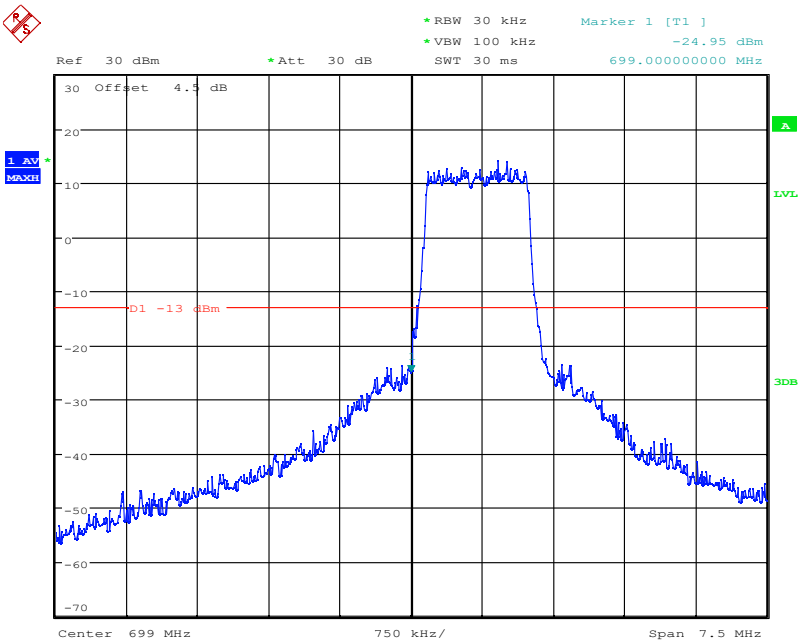
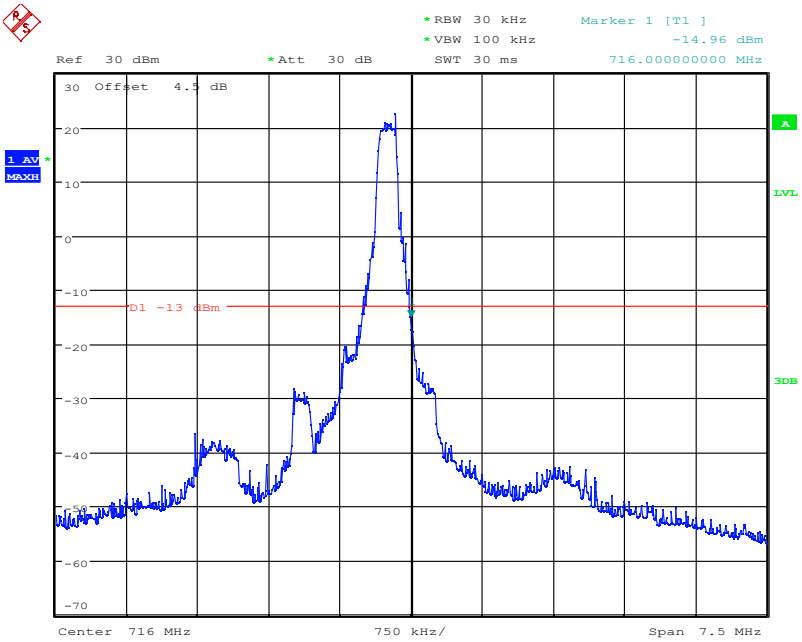
LTE Band12, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 699MHz

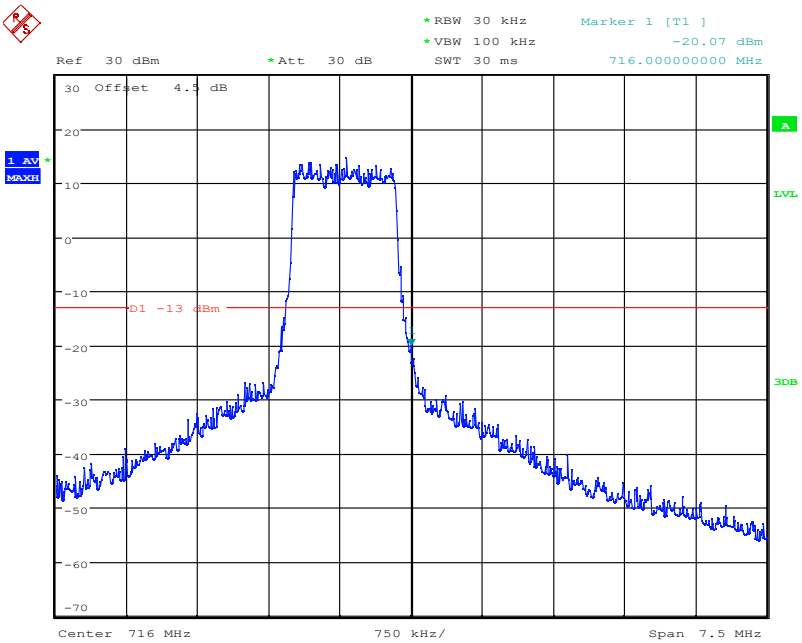


Date: 14.DEC.2021 08:36:58

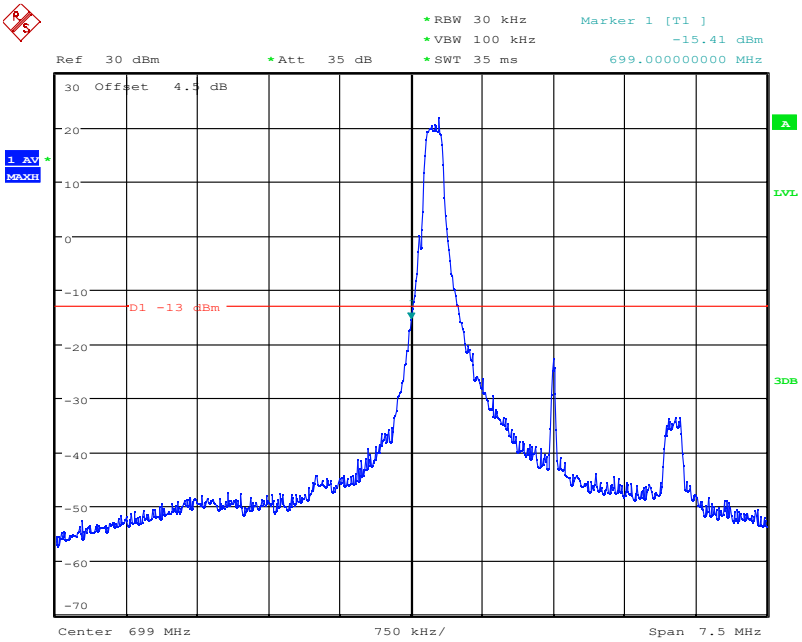
LTE Band12, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 699MHz



LTE Band12, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 716MHz



LTE Band12, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 716MHz



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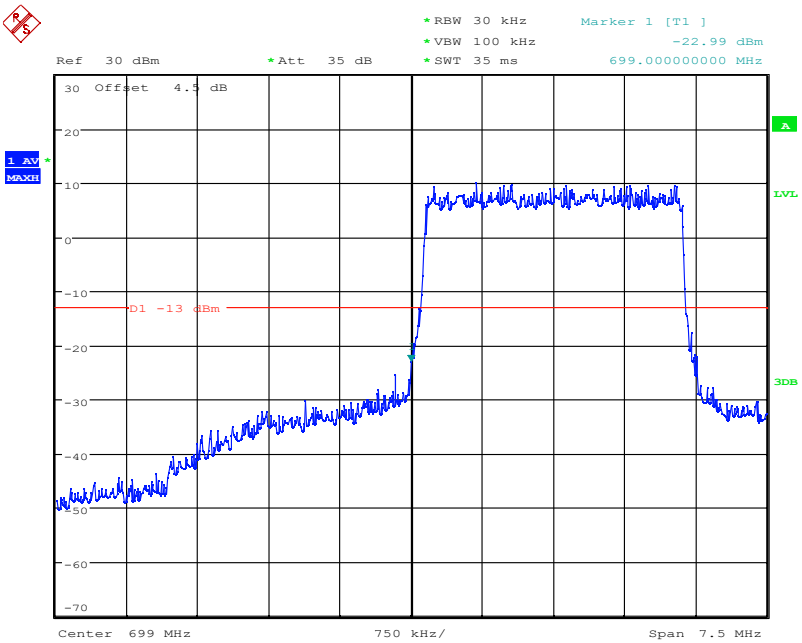
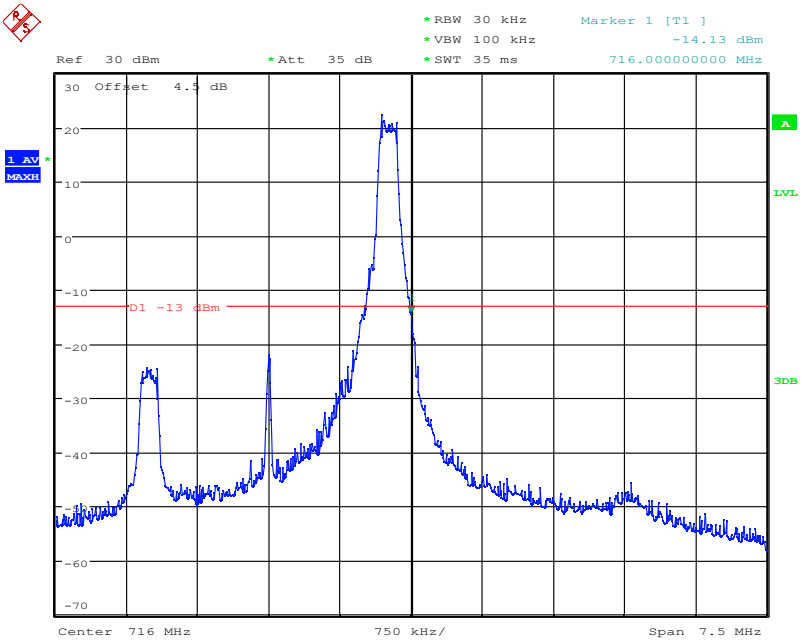
LTE Band12, 3MHz bandwidth, QPSK,(1,0) Mode , Below 699MHz

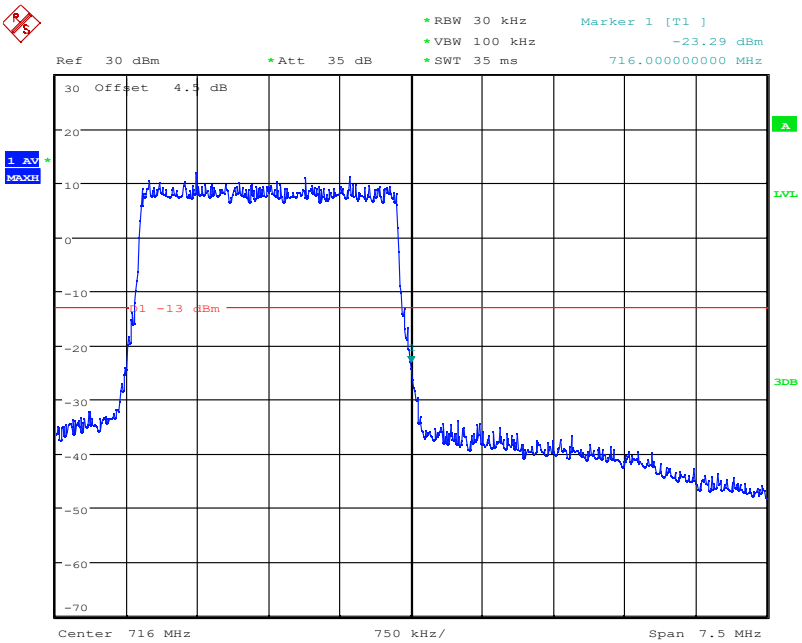


Date: 14.DEC.2021 08:39:27

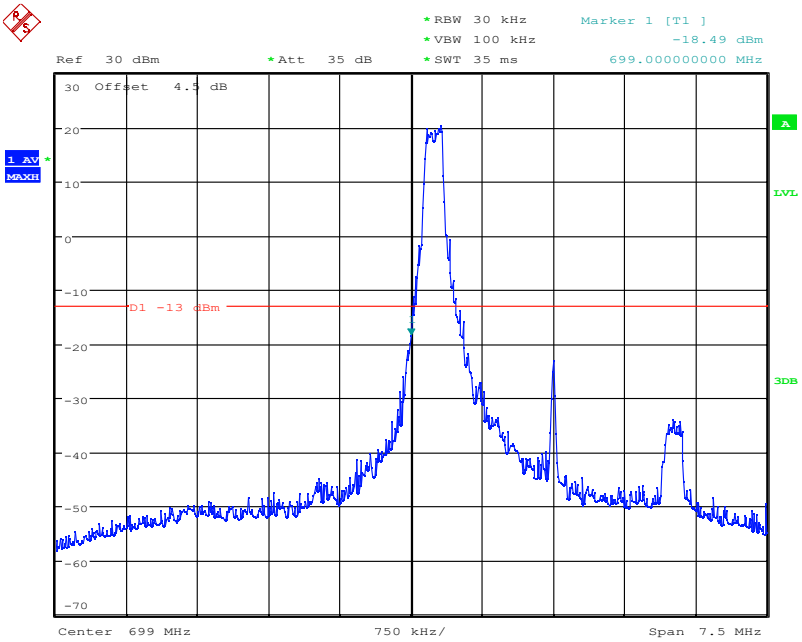
LTE Band12, 3MHz bandwidth, QPSK,(15,0) Mode , Below 699MHz



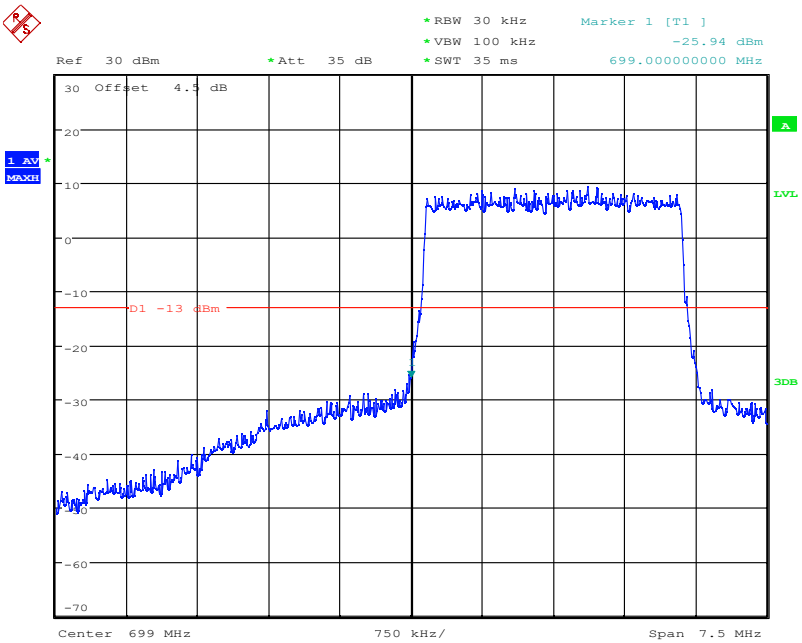
LTE Band12, 3MHz bandwidth, QPSK,(1,15) Mode, Above 716MHz



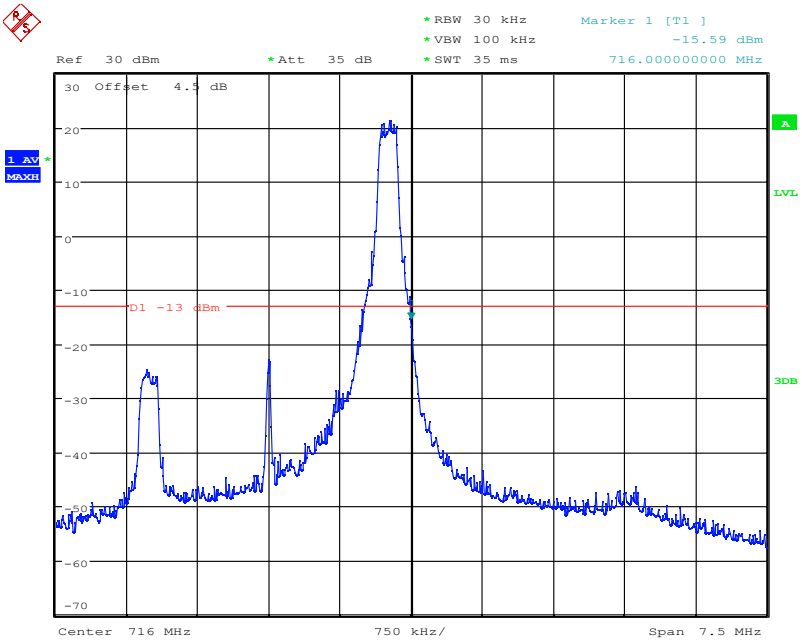
LTE Band12, 3MHz bandwidth, QPSK,(15,0) Mode, Above 716MHz



LTE Band12, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 699MHz



LTE Band12, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 699MHz



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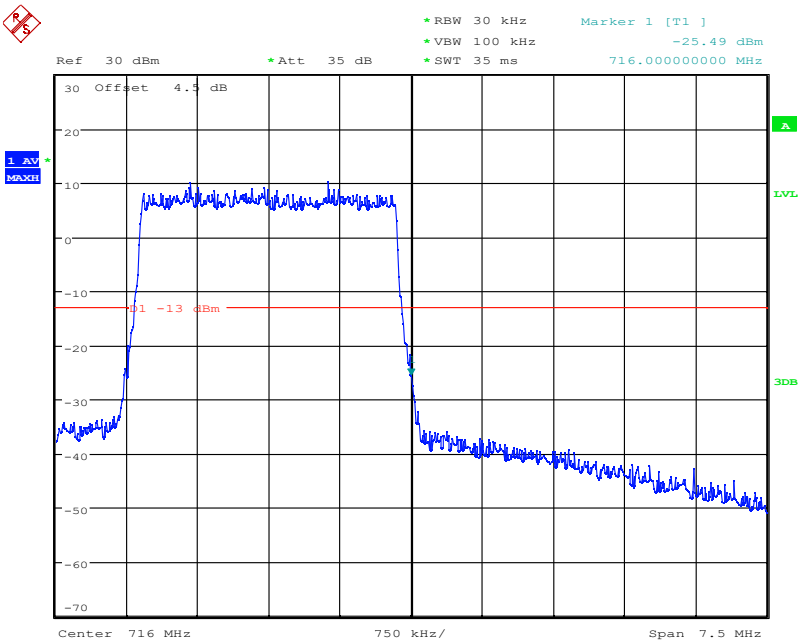
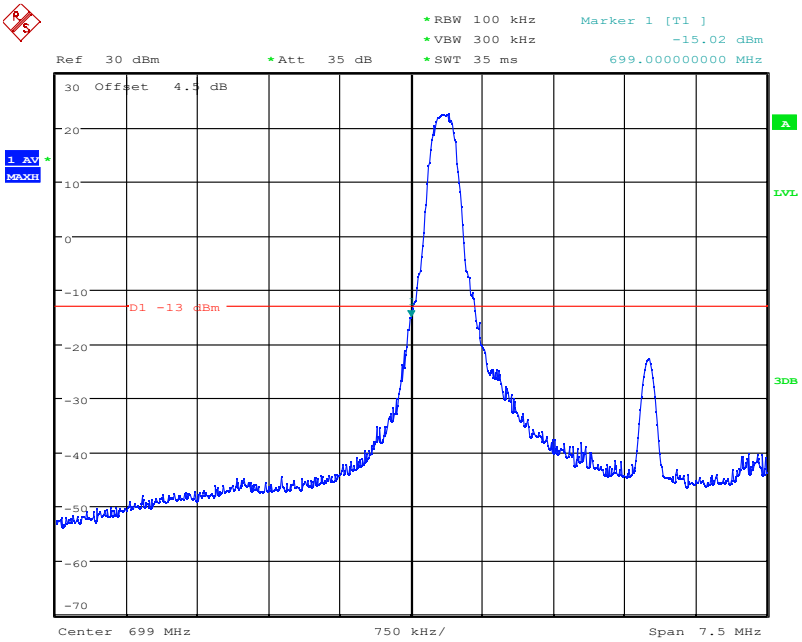
LTE Band12, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 716MHz

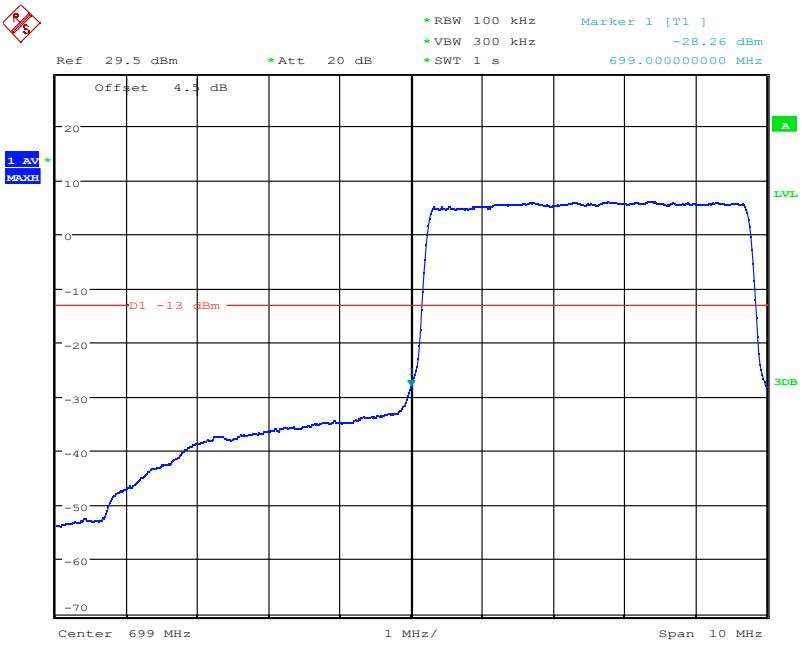


Date: 14.DEC.2021 08:41:08

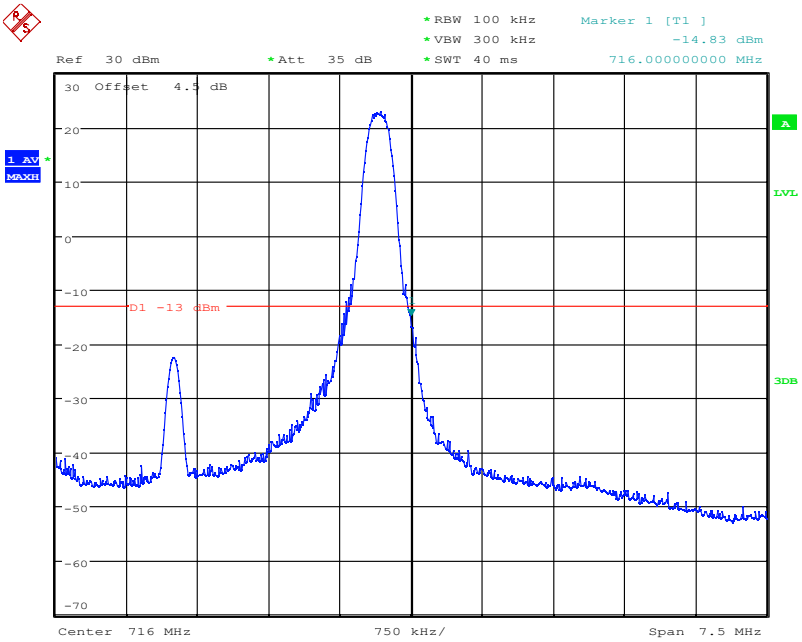
LTE Band12, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 716MHz



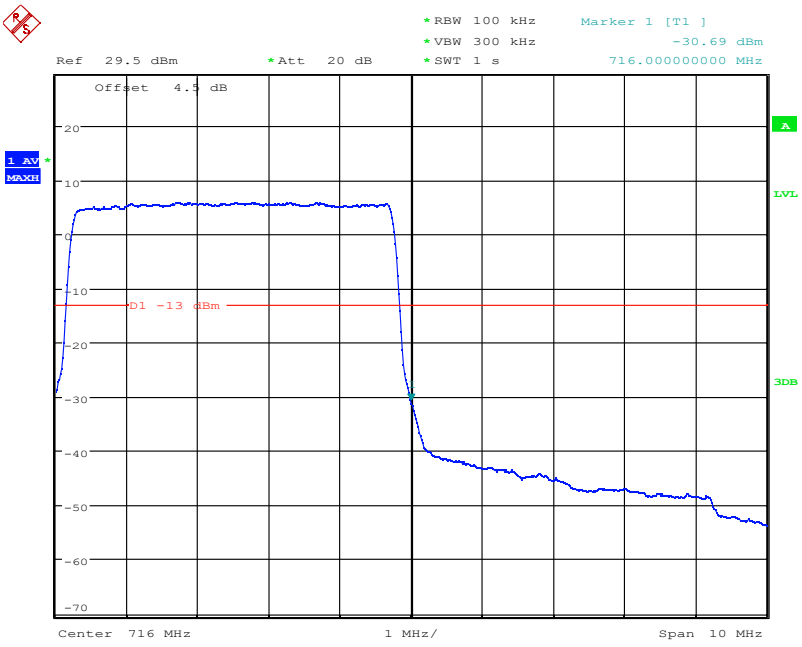
LTE Band12, 5MHz bandwidth, QPSK,(1,0) Mode , Below 699MHz



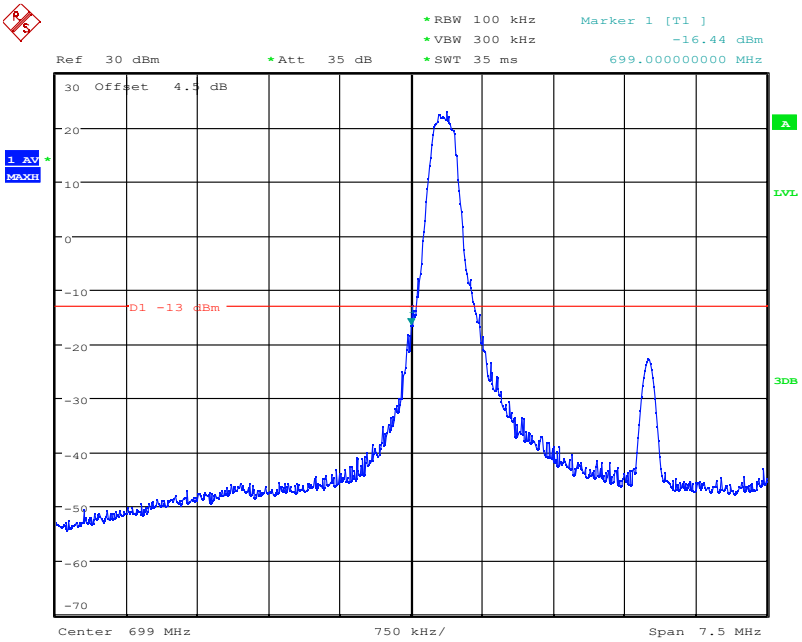
LTE Band12, 5MHz bandwidth, QPSK,(25,0) Mode , Below 699MHz



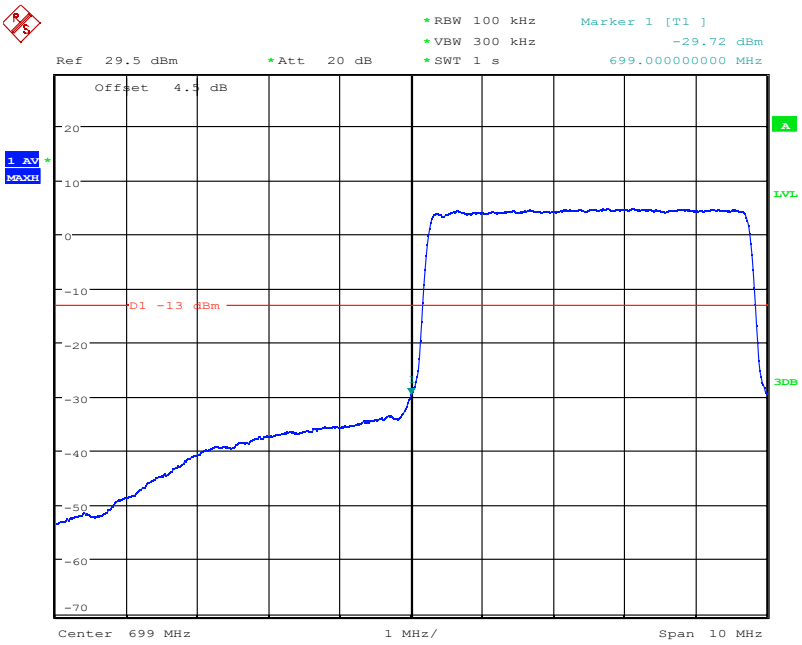
LTE Band12, 5MHz bandwidth, QPSK,(1,25) Mode, Above 716MHz



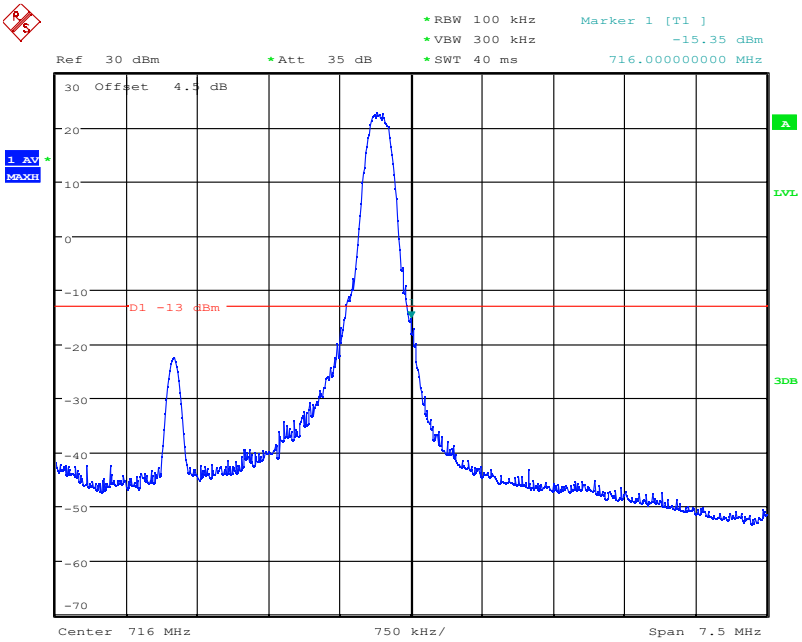
LTE Band12, 5MHz bandwidth, QPSK,(25,0) Mode, Above 716MHz



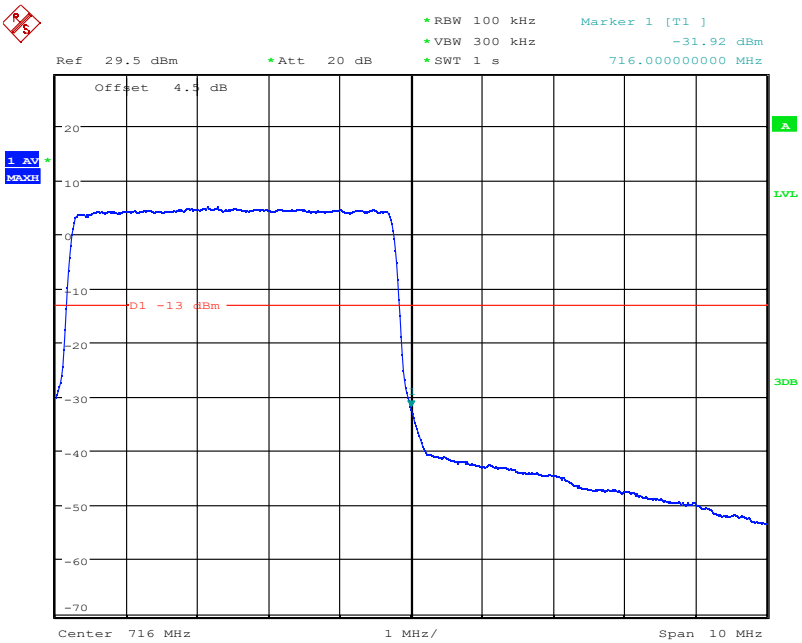
LTE Band12, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 699MHz



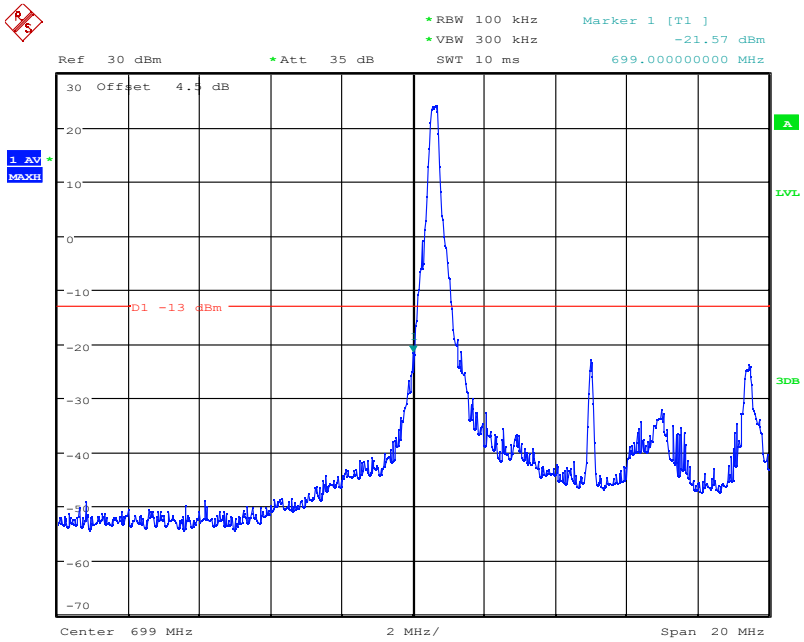
LTE Band12, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 699MHz



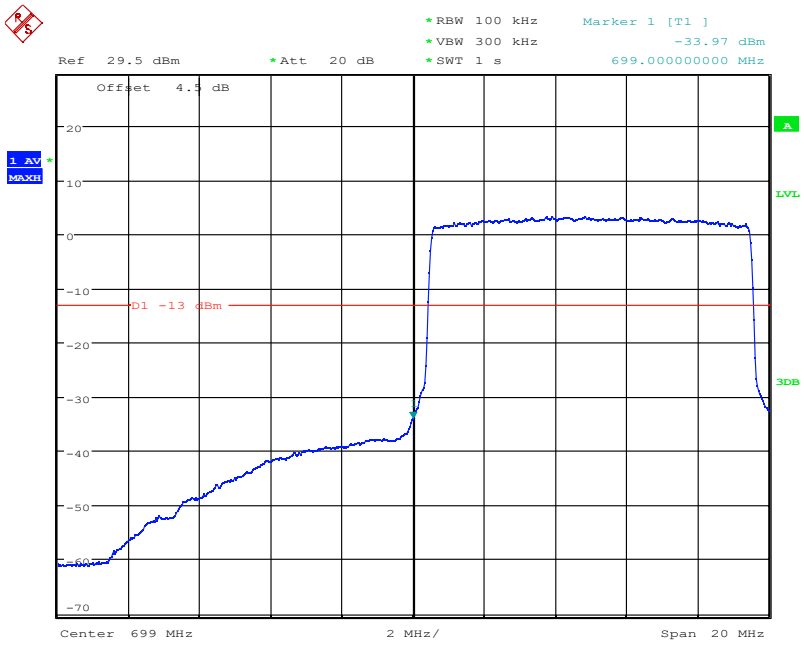
LTE Band12, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 716MHz



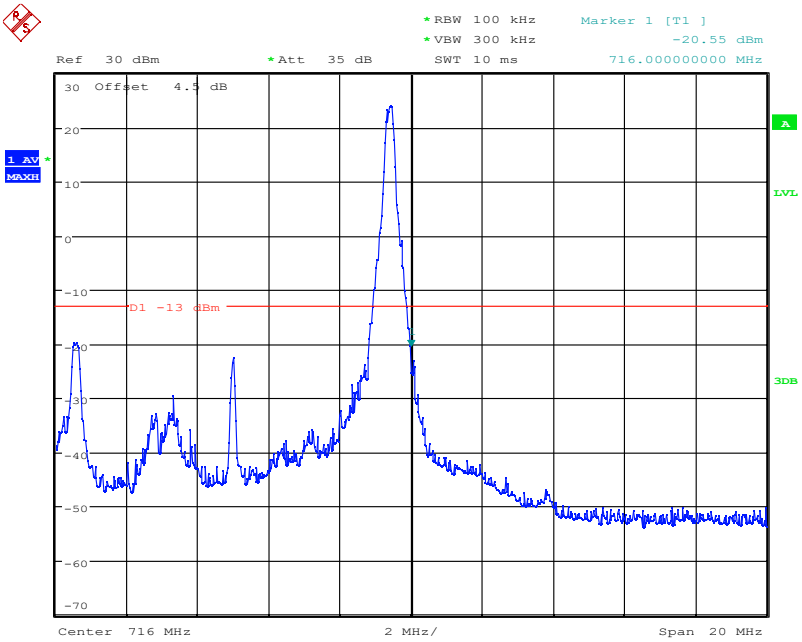
LTE Band12, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 716MHz



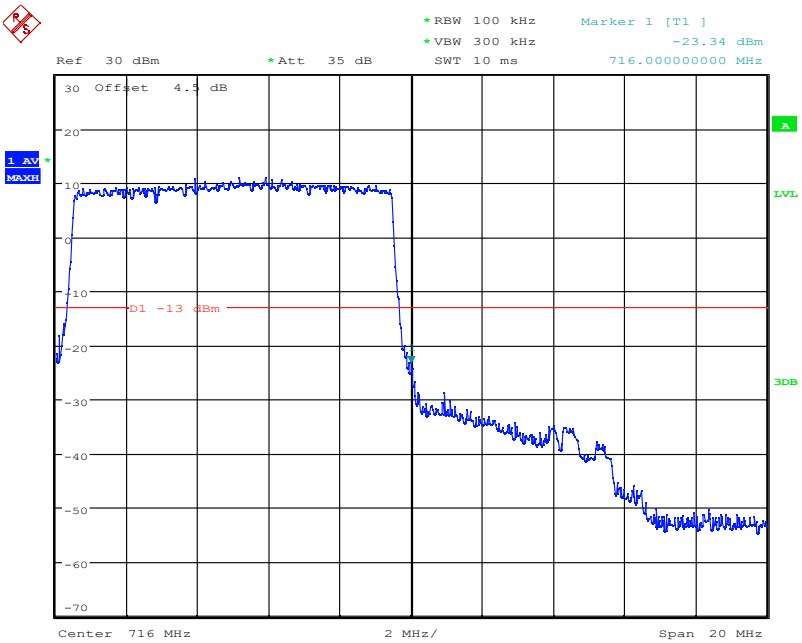
LTE Band12, 10MHz bandwidth, QPSK,(1,0) Mode , Below 699MHz



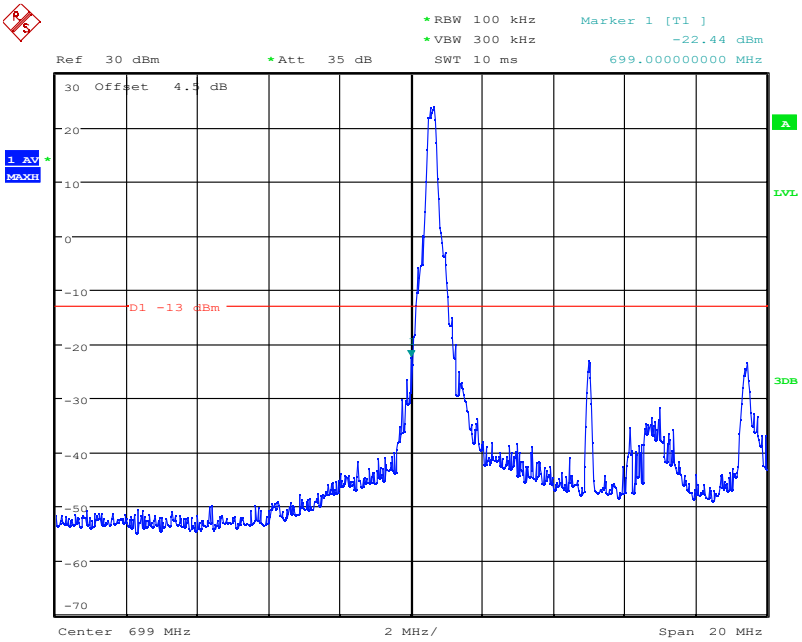
LTE Band12, 10MHz bandwidth, QPSK,(50,0) Mode , Below 699MHz



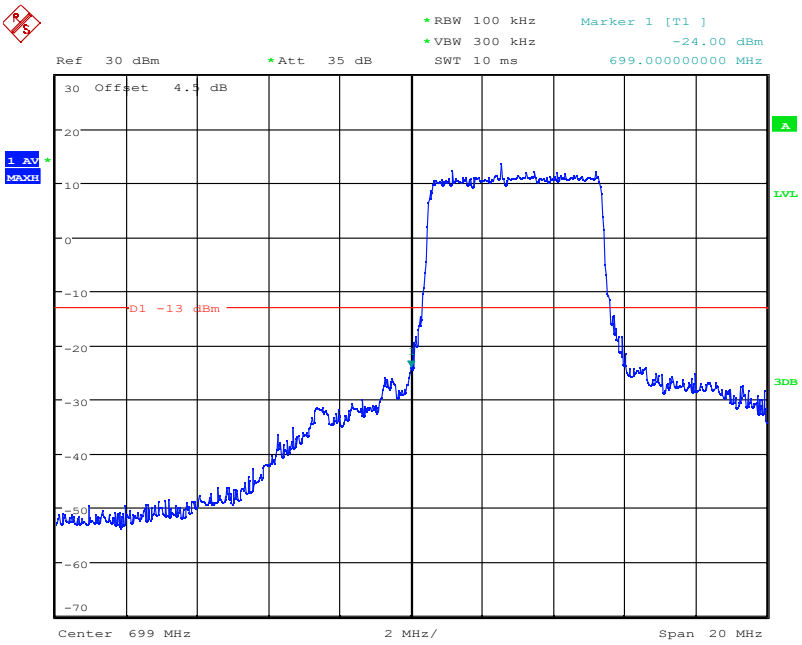
LTE Band12, 10MHz bandwidth, QPSK,(1,50) Mode, Above 716MHz



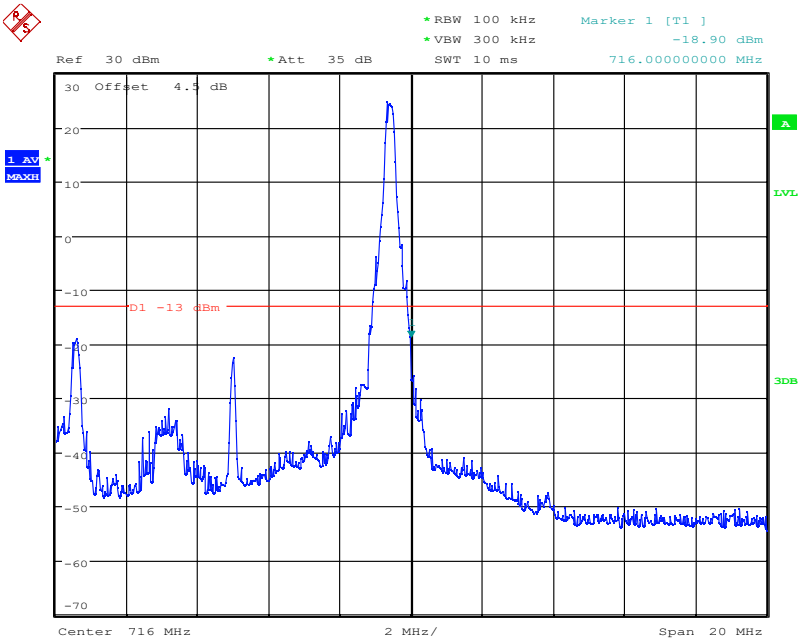
LTE Band12, 10MHz bandwidth, QPSK,(50,0) Mode, Above 716MHz



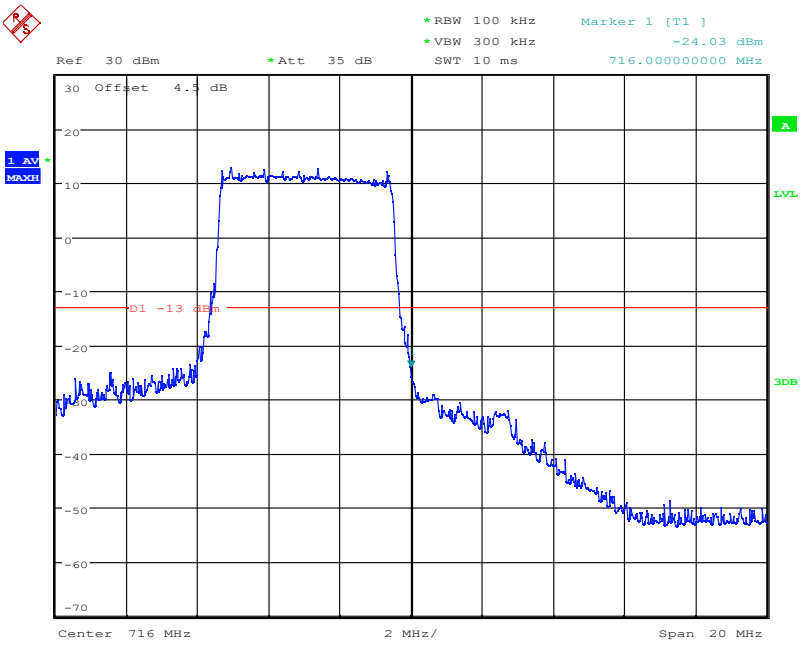
LTE Band12, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 699MHz



LTE Band12, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 699MHz

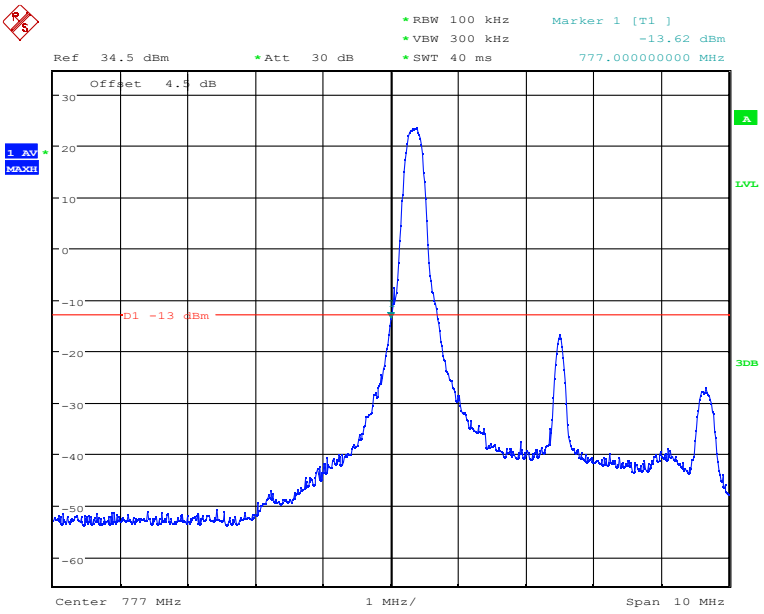


LTE Band12, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 716MHz

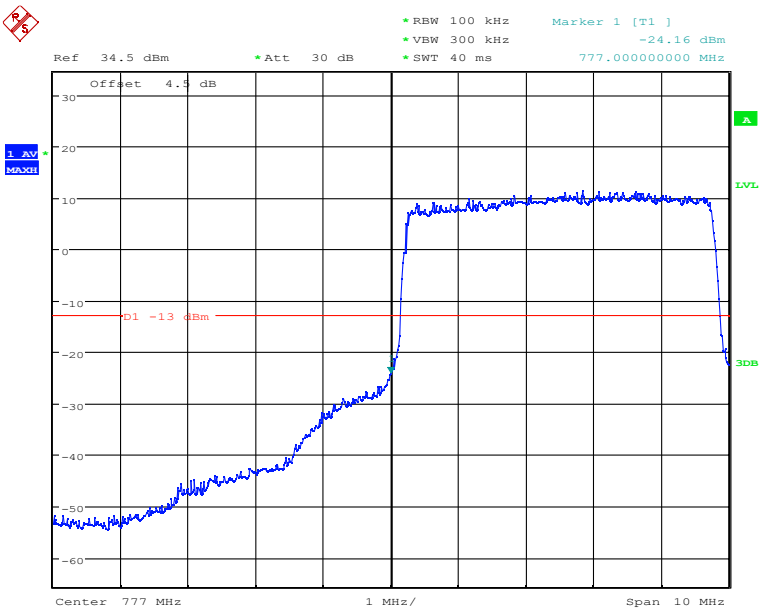


LTE Band12, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 716MHz

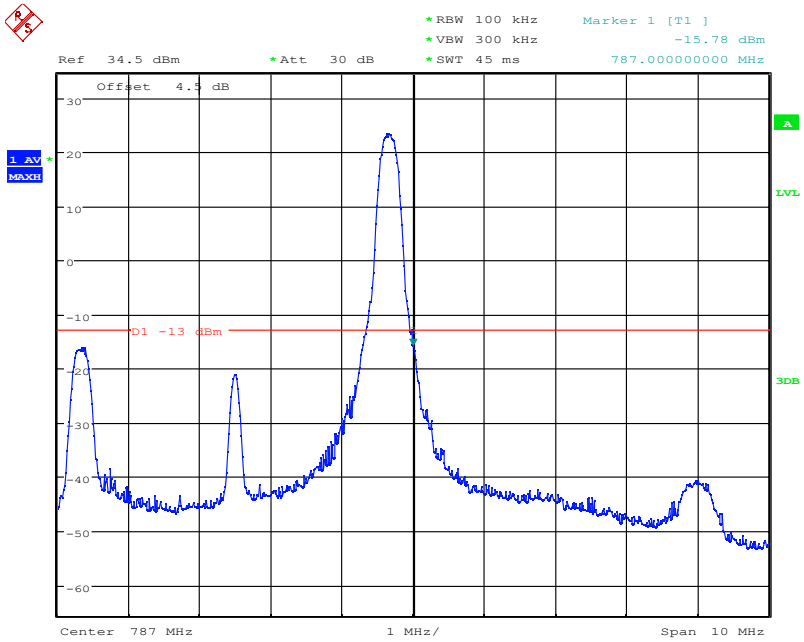
6.7.5 LTE B13 Band Edge Results



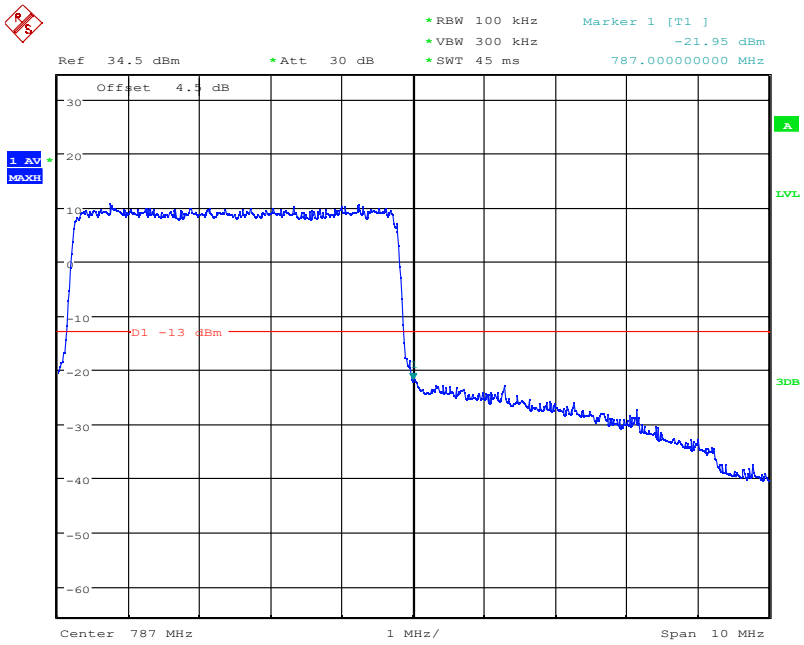
LTE Band13, 5MHz bandwidth, QPSK,(1,0) Mode , Below 777MHz



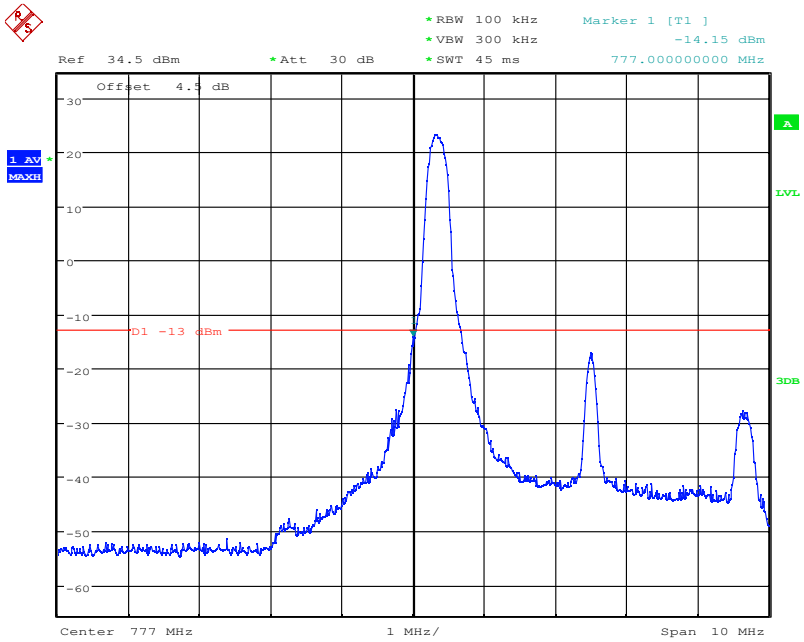
LTE Band13, 5MHz bandwidth, QPSK,(25,0) Mode , Below 777MHz



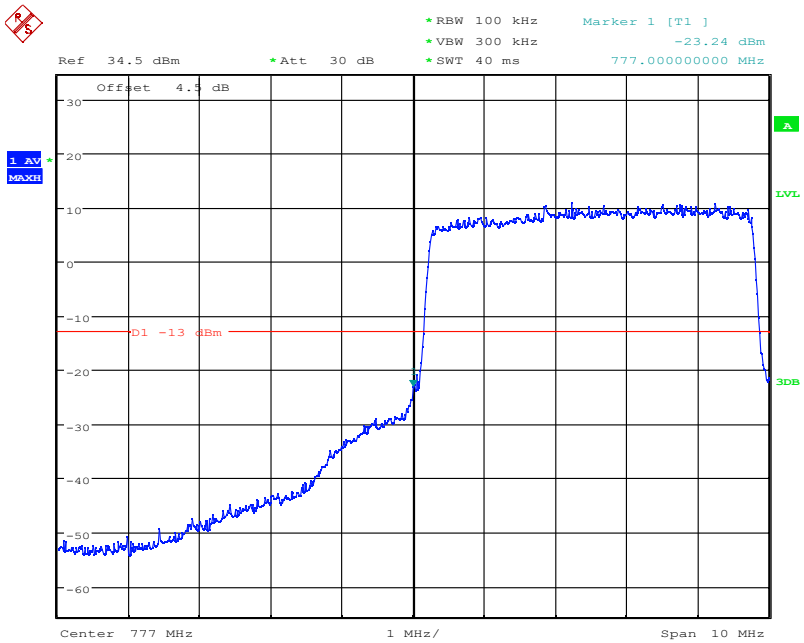
LTE Band13, 5MHz bandwidth, QPSK,(1,25) Mode, Above 787MHz



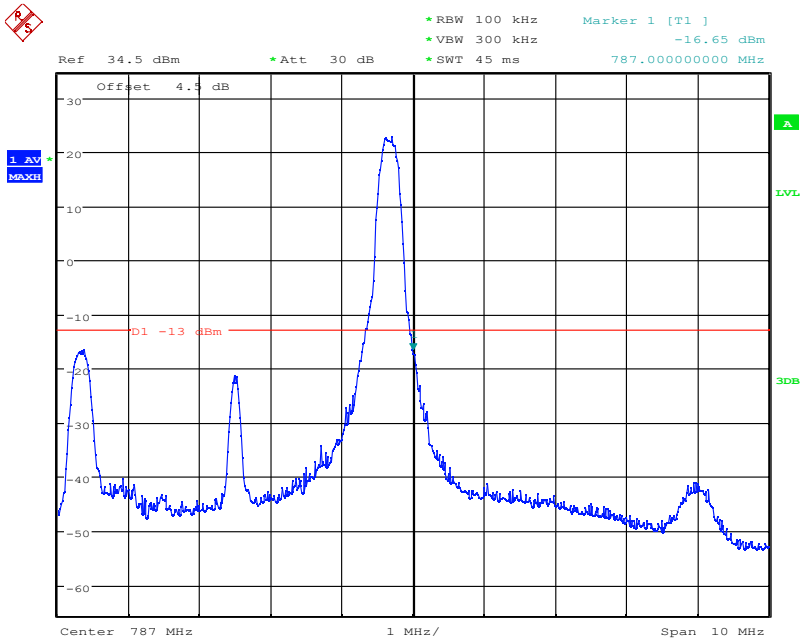
LTE Band13, 5MHz bandwidth, QPSK,(25,0) Mode, Above 787MHz



LTE Band13, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 777MHz



LTE Band13, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 777MHz



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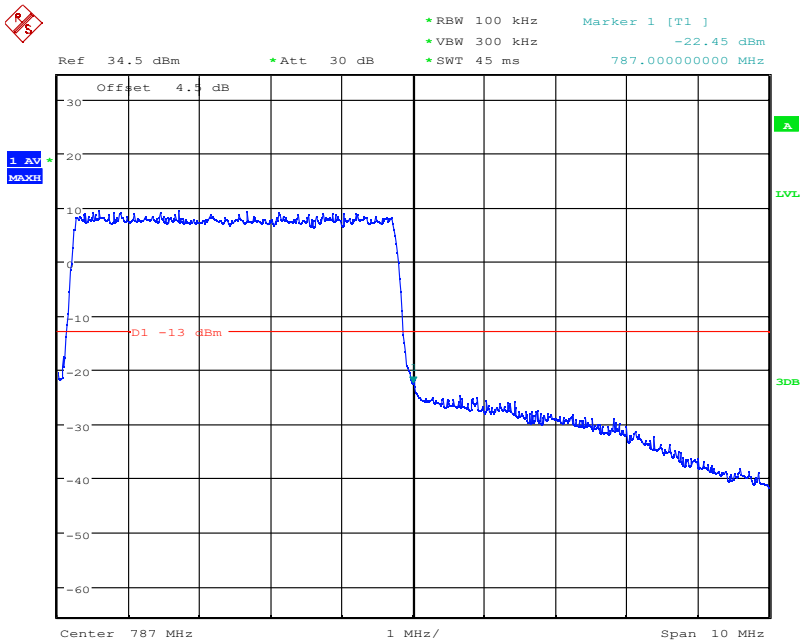
LTE Band13, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 787MHz



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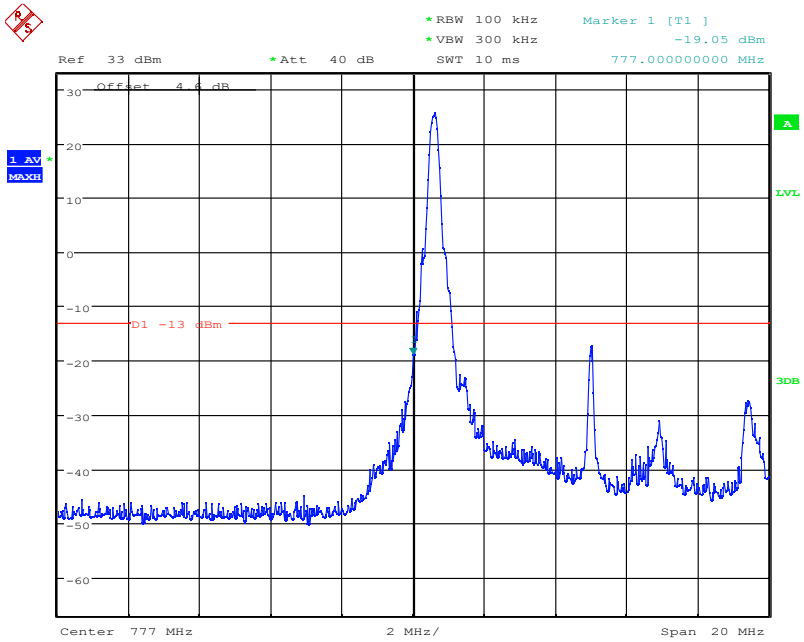
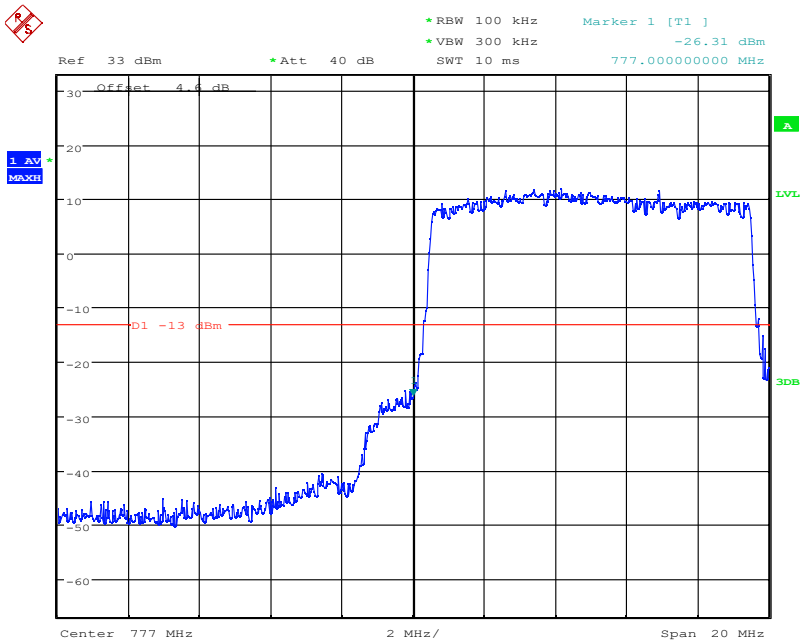
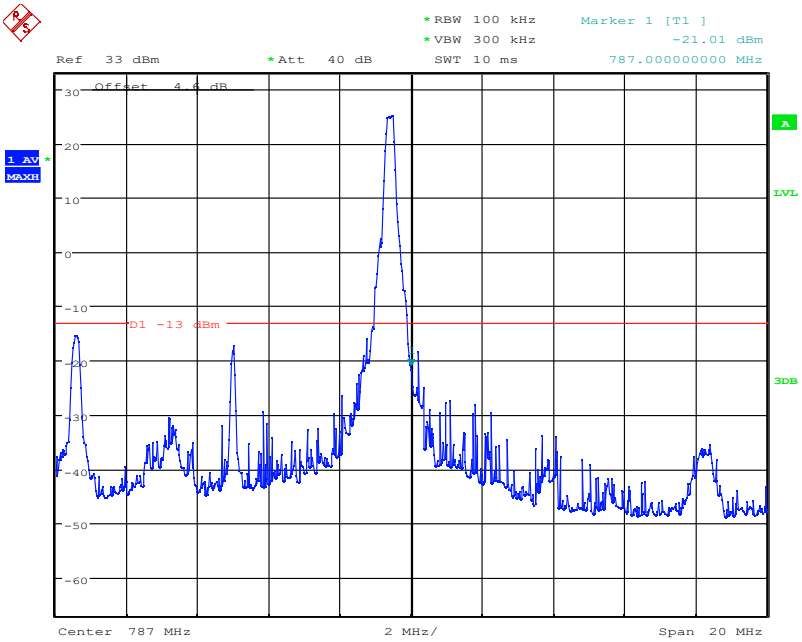
LTE Band13, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 787MHz



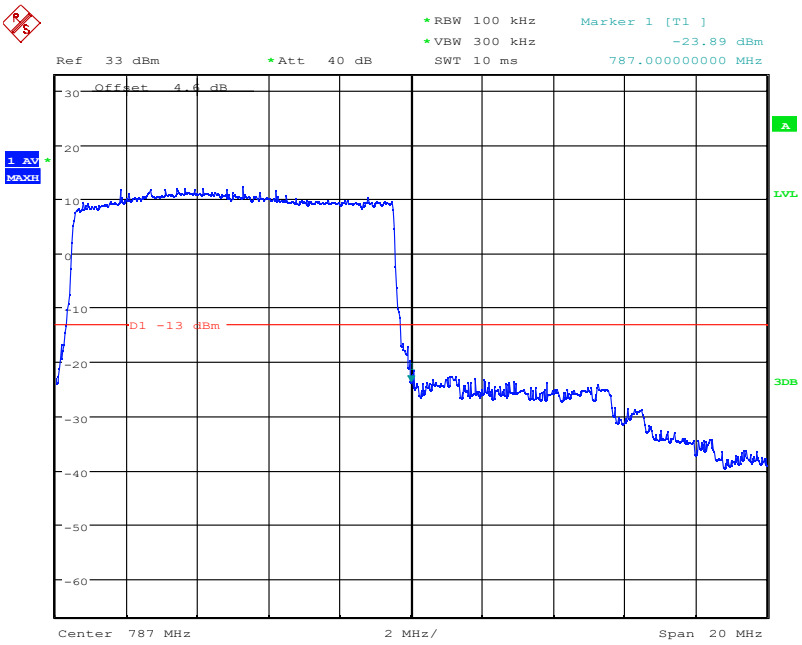
LTE Band13, 10MHz bandwidth, QPSK,(1,0) Mode , Below 777MHz



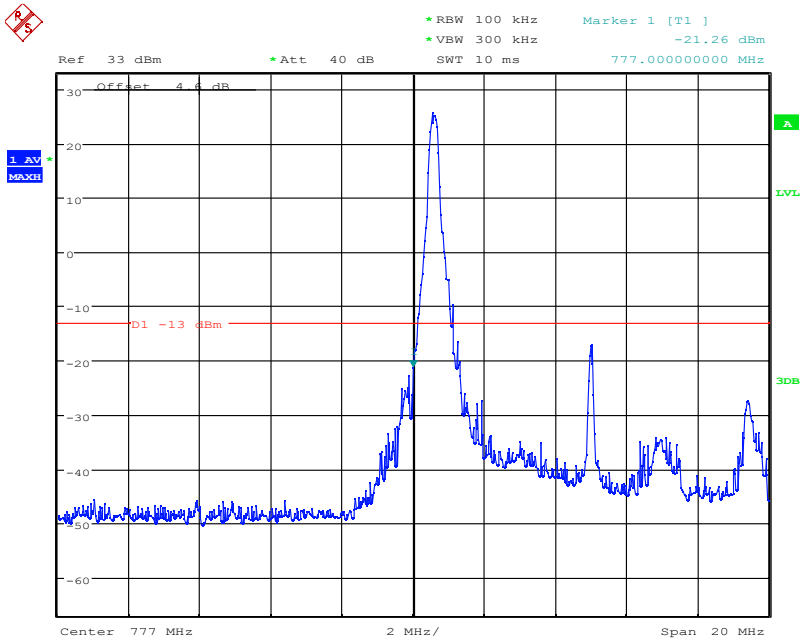
LTE Band13, 10MHz bandwidth, QPSK,(50,0) Mode , Below 777MHz



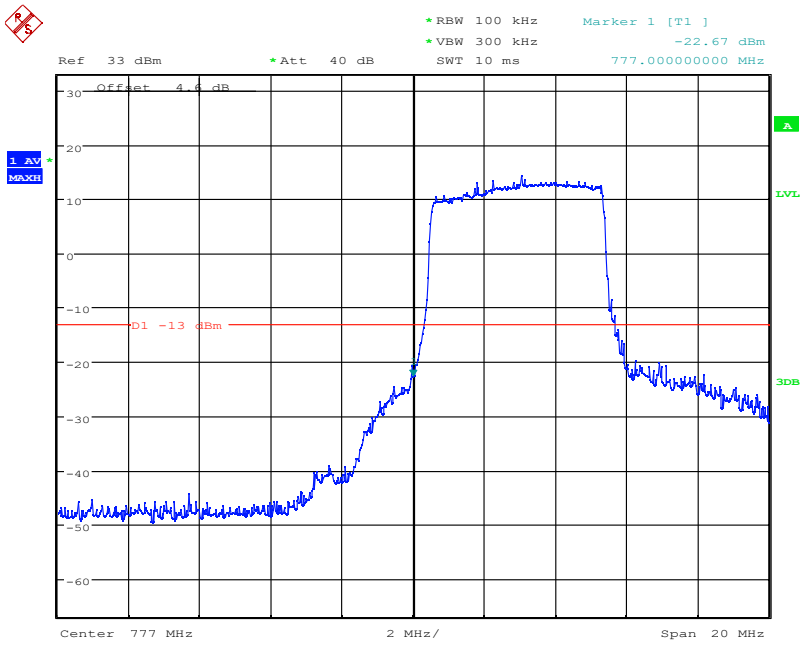
LTE Band13, 10MHz bandwidth, QPSK,(1,50) Mode, Above 787MHz



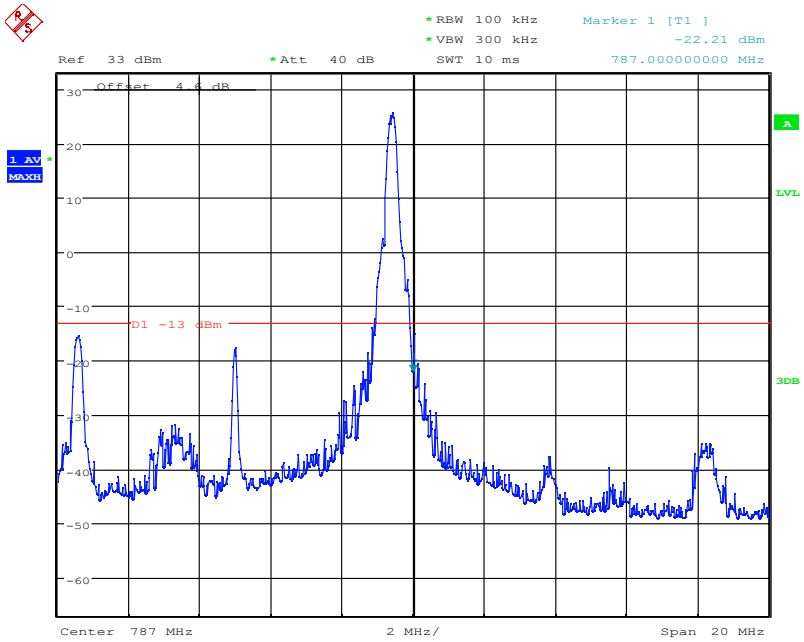
LTE Band13, 10MHz bandwidth, QPSK,(50,0) Mode, Above 787MHz



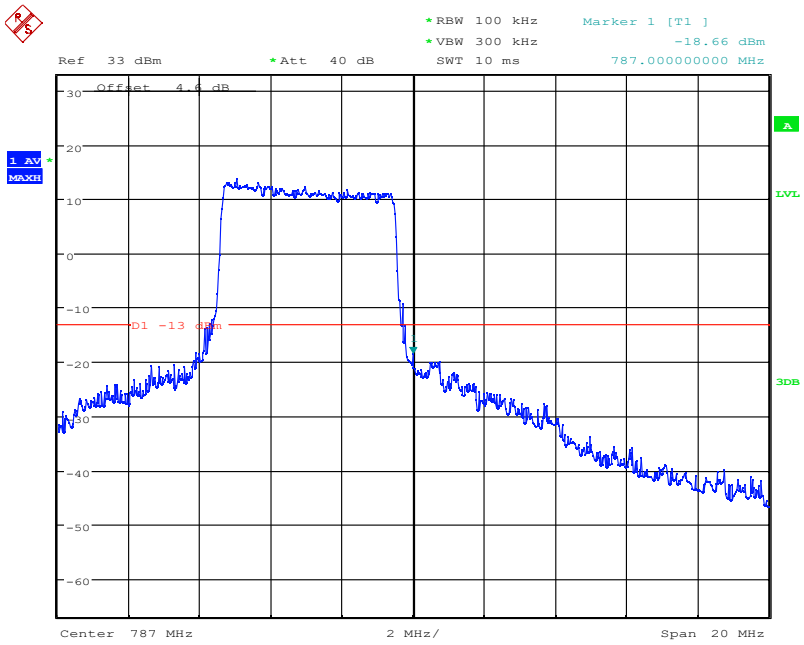
LTE Band13, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 777MHz



LTE Band13, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 777MHz



LTE Band13, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 787MHz



LTE Band13, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 787MHz

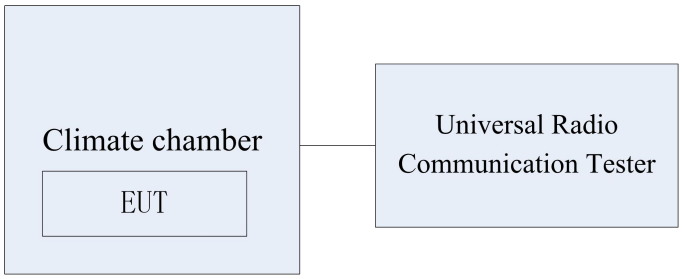
6.8. Frequency Stability over Temperature Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	860710050007536
Test conditions:	Ambient Temperature:15℃-35℃ 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℃ 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℃,-20℃, -10℃, 0℃, 10℃, 20℃, 30℃, 40℃ and 50℃.

6.8.1 LTE Band Frequency Stability over Temperature Variation Results

Band	frequency	Offset	Temperature[℃]								
			-30	-20	-10	0	10	20	30	40	50
2	1880 MHz	Hz	-1.89	-2.35	-1.89	-1.12	-2.50	-2.40	-3.02	-4.06	-3.06
		ppm	-0.0010	-0.0012	-0.0010	-0.0006	-0.0013	-0.0012	-0.0016	-0.0022	-0.0016
4	1732.5 MHz	Hz	1.37	1.03	1.44	0.03	0.67	1.06	-0.10	0.21	0.26
		ppm	0.0008	0.0006	0.0008	0	0.0004	0.0006	0	0.0001	0.0002
5	836.5 MHz	Hz	0.39	0.87	0.87	1.23	0.01	0.29	0.10	-0.83	0.09
		ppm	0.0005	0.0010	0.0010	0.0015	0	0.0003	0.0001	-0.0010	0.0001
12	707.5 MHz	Hz	0.03	0.59	0.94	0.64	-0.67	0.17	-0.44	-0.70	-1.27
		ppm	0	0.0008	0.0013	0.0009	-0.0009	0.0002	-0.0006	-0.0010	-0.0018
13	782 MHz	Hz	-0.20	-0.14	1.42	0.79	-6.67	0.76	7.80	-6.82	-6.42
		ppm	-0.0003	-0.0002	0.0018	0.0010	-0.0085	0.0010	0.0100	-0.0087	-0.0082

6.9. Frequency Stability over Voltage Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	860710050007536
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit	
Frequency deviation [ppm]	±2.5

6.9.1 LTE Band Frequency Stability over Voltage Variation Results

Test data:

Band	frequency	Offset	Voltage (V)		
			3.50	3.80	4.20
2	1880 MHz	Hz	-2.96	-3.45	3.21
		ppm	-0.0016	-0.0018	0.0017
4	1732.5 MHz	Hz	-0.51	0.11	0.57
		ppm	-0.0003	0	0.0003
5	836.5 MHz	Hz	-1.46	-0.59	0.36
		ppm	-0.0017	-0.0007	0.0004
12	707.5 MHz	Hz	-0.89	-1.57	-1.67
		ppm	-0.0013	-0.0022	-0.0024
13	782 MHz	Hz	-3.68	-3.12	-2.73
		ppm	-0.0047	-0.0040	-0.0035

6.10. Peak to Average Ratio

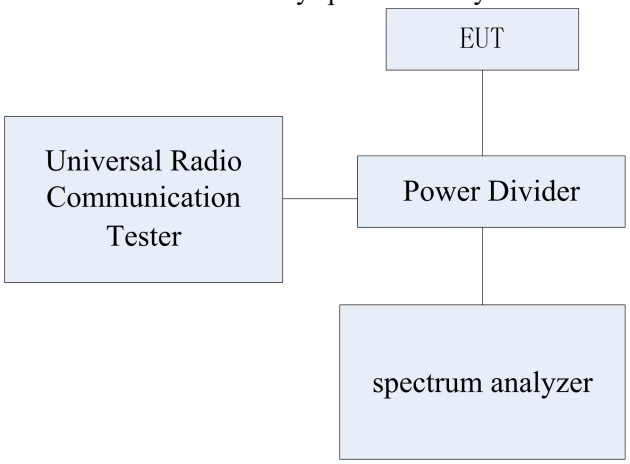
Specifications:	FCC Part 24.232, 27.50,
DUT Serial Number:	860710050007536
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

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.

6.10.1 LTE B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1880	18900	10MHz	QPSK	6.19
			16QAM	7.03

6.10.2 LTE B4 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1732.5	20175	10MHz	QPSK	7.20
			16QAM	6.43

6.10.3 LTE B5 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
836.5	20525	10MHz	QPSK	6.72
			16QAM	6.28

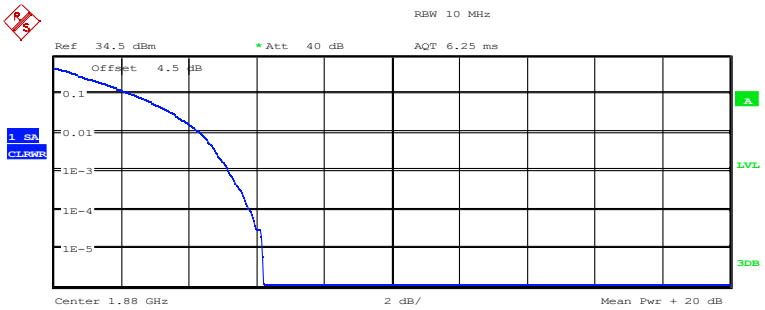
6.10.4 LTE B12 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
707.5	23095	10MHz	QPSK	8.01
			16QAM	7.04

6.10.5 LTE B13 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
782	23230	10MHz	QPSK	6.34
			16QAM	7.18

Graphical for Peak to Average Ratio Results

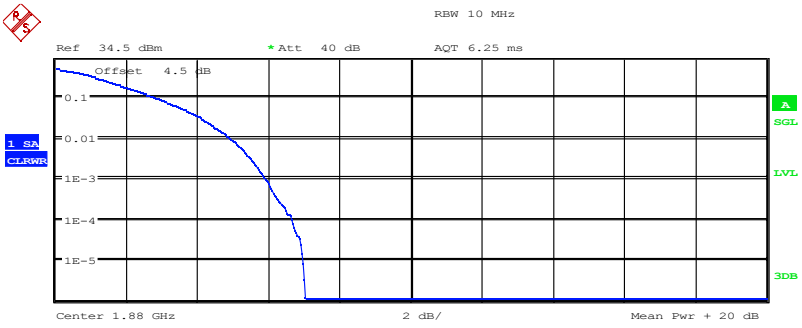


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	22.12 dBm
Peak	28.30 dBm
Crest	6.19 dB
10 %	2.31 dB
1 %	4.29 dB
.1 %	5.16 dB
.01 %	5.77 dB

Date: 12.DEC.2021 14:40:03

LTE Band2, QPSK

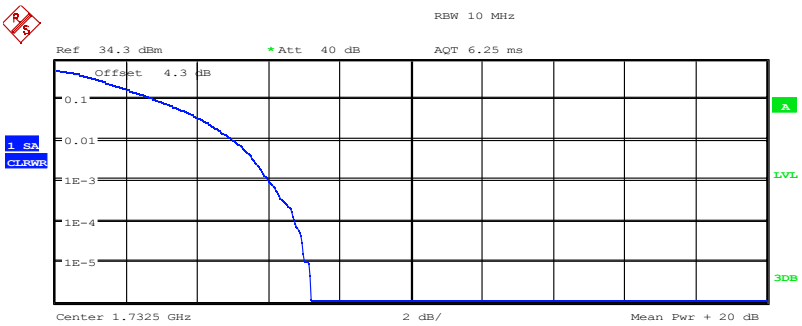


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	21.42 dBm
Peak	28.45 dBm
Crest	7.03 dB
10 %	2.85 dB
1 %	4.90 dB
.1 %	5.90 dB
.01 %	6.67 dB

Date: 12.DEC.2021 14:41:42

LTE Band2, 16QAM

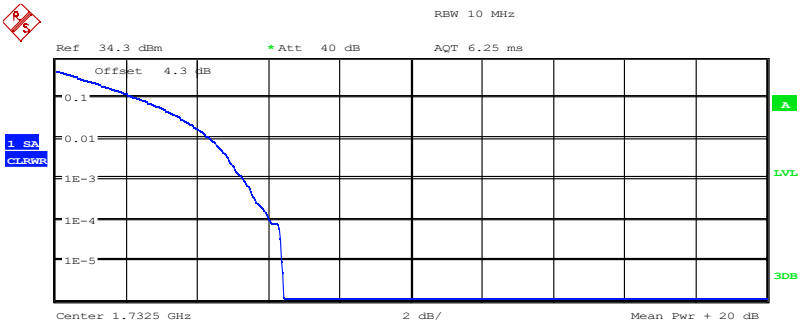


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	20.77 dBm
Peak	27.97 dBm
Crest	7.20 dB
10 %	2.82 dB
1 %	5.00 dB
.1 %	5.99 dB
.01 %	6.73 dB

Date: 12.DEC.2021 14:43:34

LTE Band4, QPSK

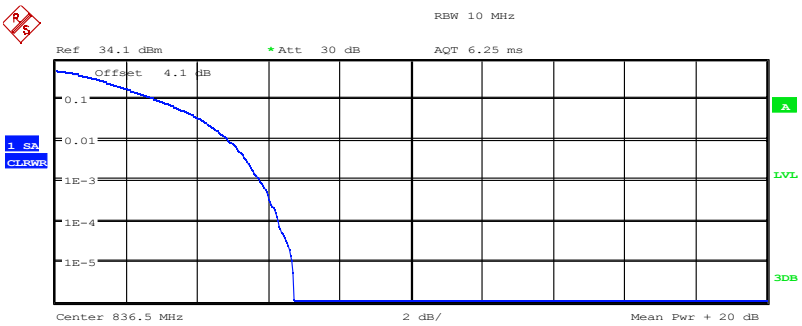


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	21.61 dBm
Peak	28.04 dBm
Crest	6.43 dB
10 %	2.31 dB
1 %	4.36 dB
.1 %	5.29 dB
.01 %	6.03 dB

Date: 12.DEC.2021 14:42:41

LTE Band4, 16QAM

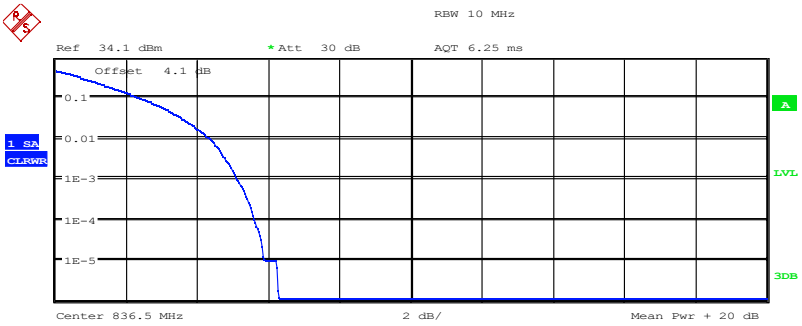


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	22.58 dBm
Peak	29.31 dBm
Crest	6.72 dB
10 %	2.85 dB
1 %	4.87 dB
.1 %	5.77 dB
.01 %	6.28 dB

Date: 12.DEC.2021 14:44:35

LTE Band5, QPSK

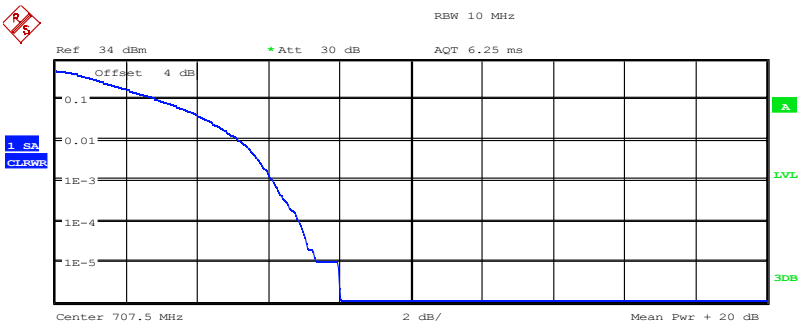


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	23.09 dBm
Peak	29.38 dBm
Crest	6.28 dB
10 %	2.40 dB
1 %	4.33 dB
.1 %	5.13 dB
.01 %	5.61 dB

Date: 12.DEC.2021 14:44:49

LTE Band5, 16QAM

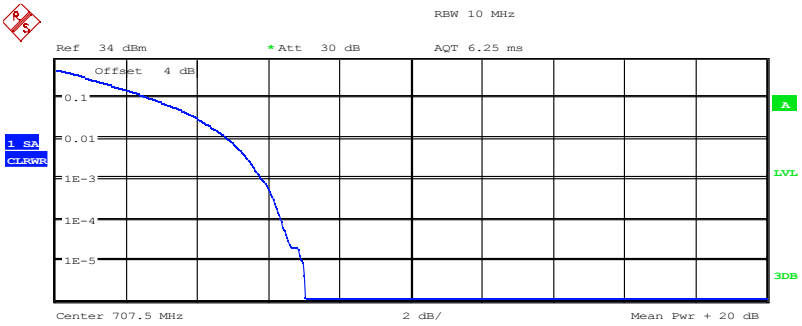


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	21.60 dBm
Peak	29.62 dBm
Crest	8.01 dB
10 %	2.88 dB
1 %	5.16 dB
.1 %	6.12 dB
.01 %	6.86 dB

Date: 12.DEC.2021 14:47:45

LTE Band12, QPSK

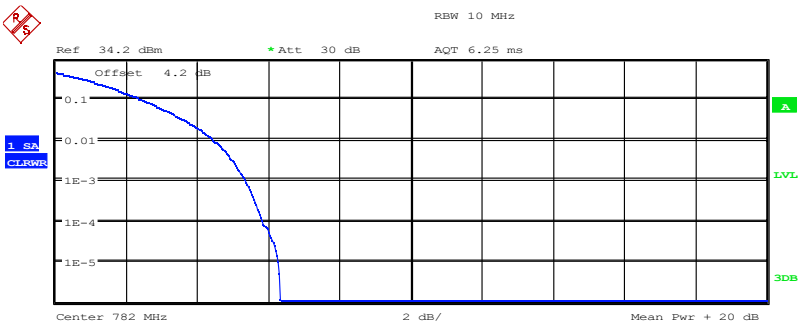


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	21.95 dBm
Peak	28.98 dBm
Crest	7.04 dB
10 %	2.66 dB
1 %	4.84 dB
.1 %	5.83 dB
.01 %	6.35 dB

Date: 12.DEC.2021 14:47:31

LTE Band12, 16QAM

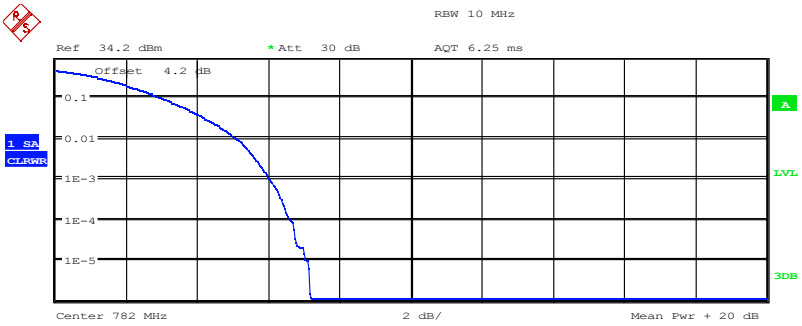


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	23.20 dBm
Peak	29.54 dBm
Crest	6.34 dB
10 %	2.47 dB
1 %	4.46 dB
.1 %	5.35 dB
.01 %	5.83 dB

Date: 12.DEC.2021 14:46:51

LTE Band13, QPSK



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

	Trace 1
Mean	22.43 dBm
Peak	29.61 dBm
Crest	7.18 dB
10 %	3.01 dB
1 %	5.10 dB
.1 %	6.03 dB
.01 %	6.60 dB

Date: 12.DEC.2021 14:47:01

LTE Band13, 16QAM

Annex A EUT Photos

See the document”B21W00049-External Photos”.
See the document”B21W00049-Internal Photos ”.

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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