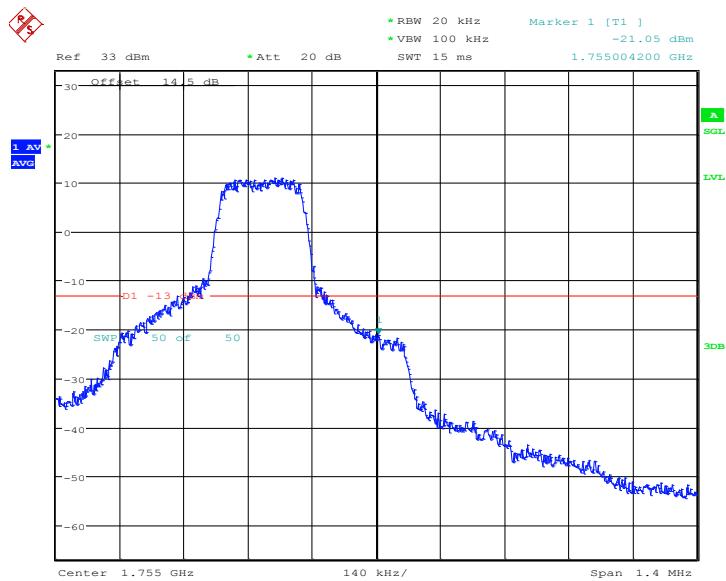
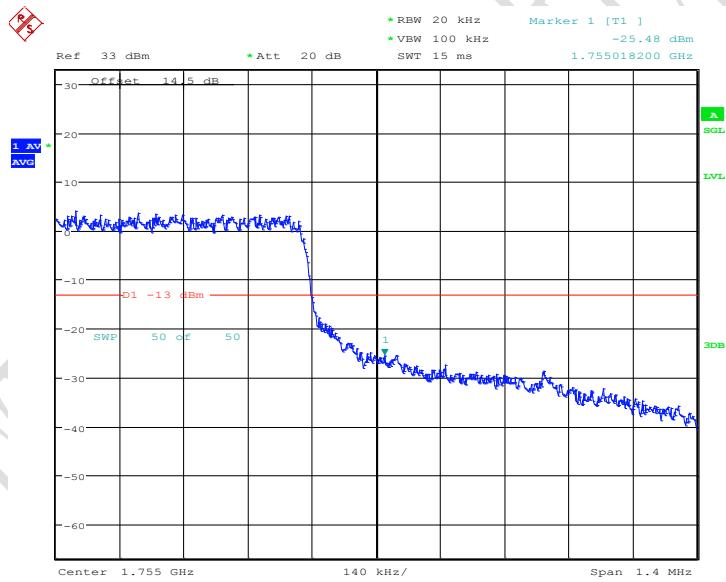


Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:20:08

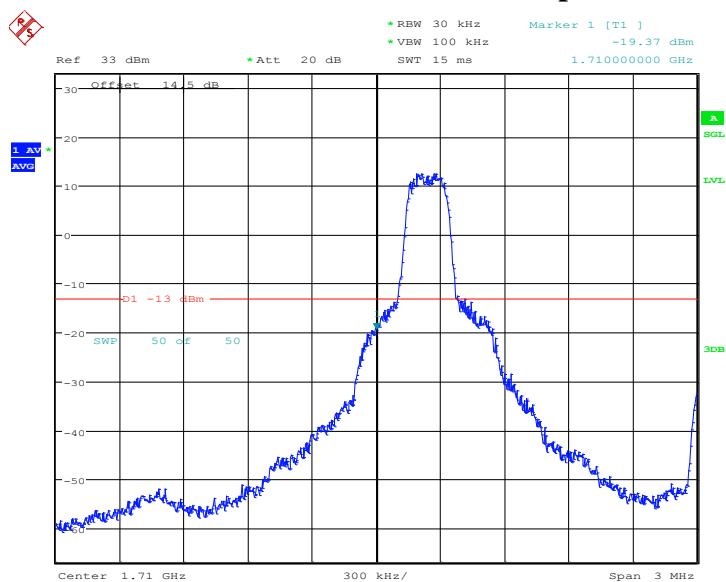
LTE Band4, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 1755MHz



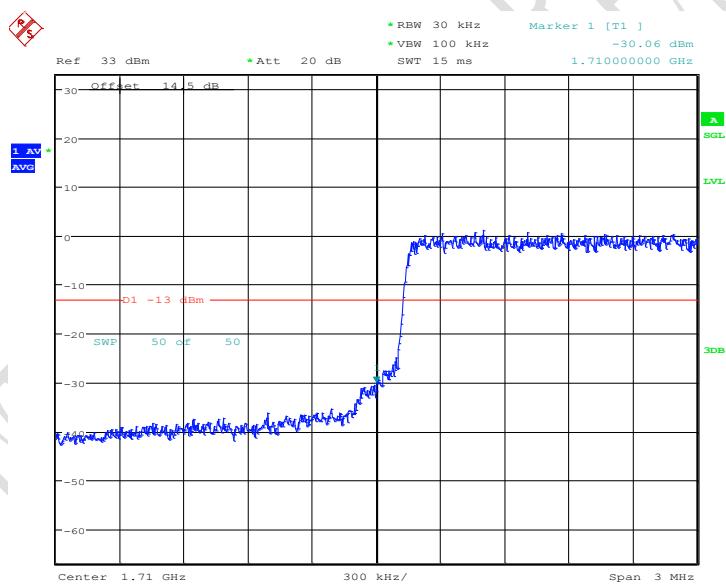
Date: 8.JUL.2016 10:20:42

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

Report No.: B16X50266-WWAN-Rev3

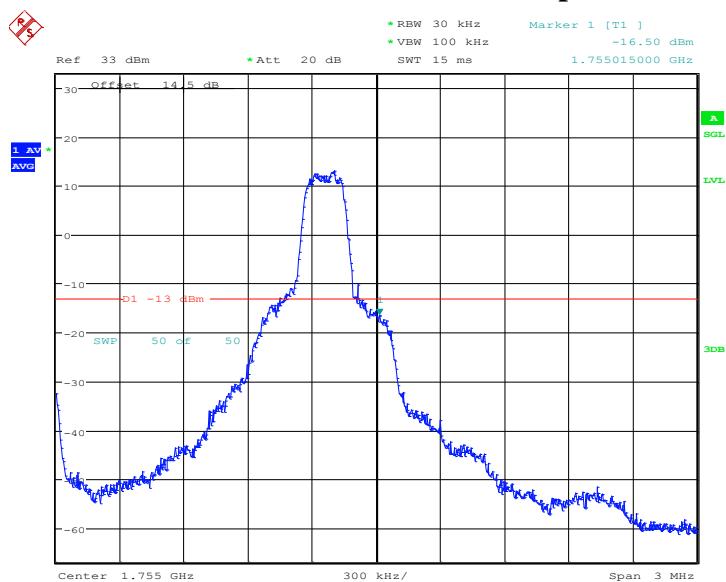


LTE Band4, 3MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

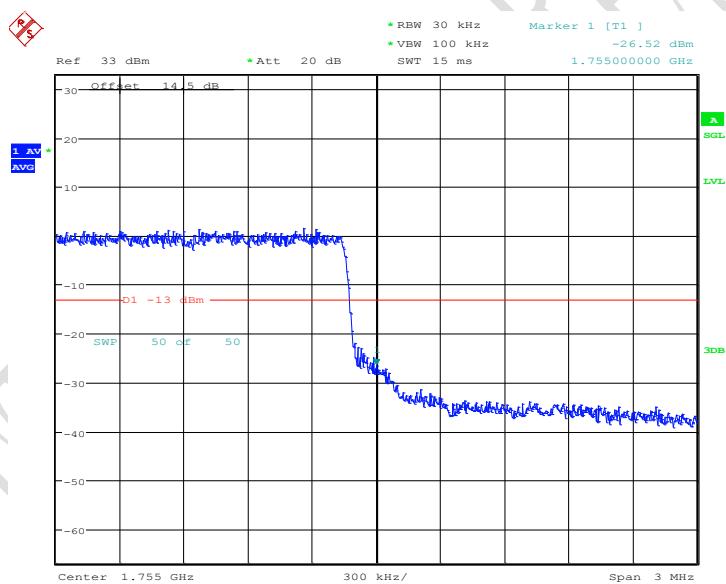


LTE Band4, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3

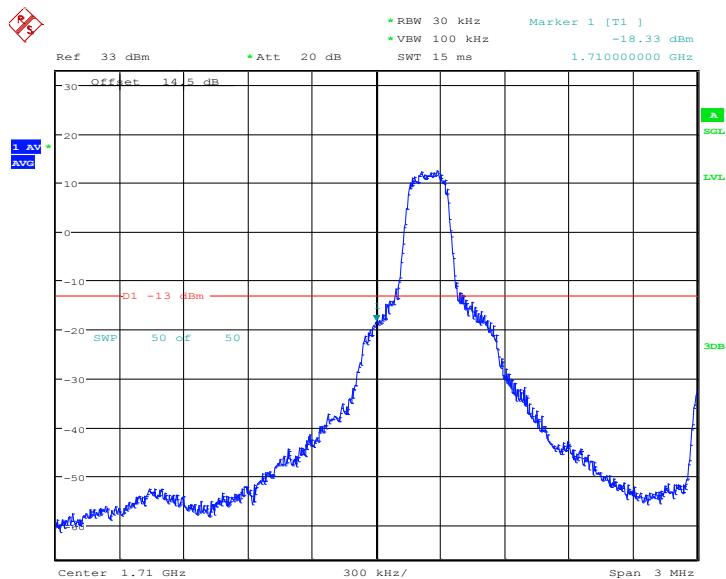


LTE Band4, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1755MHz



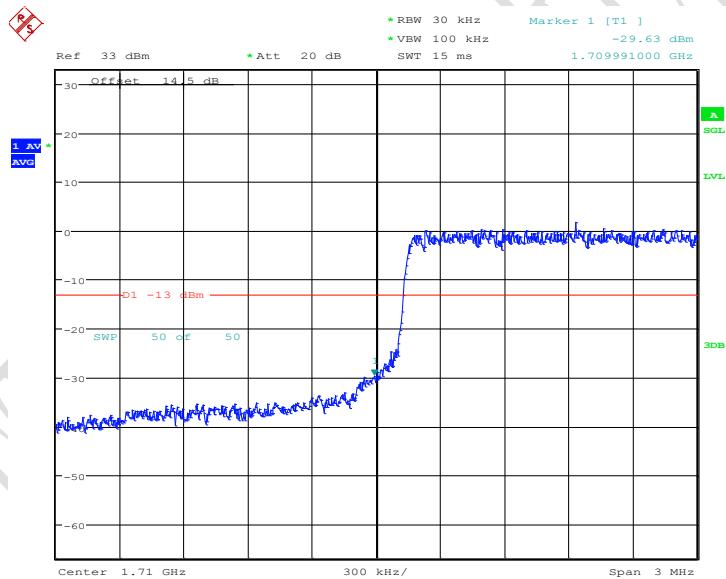
LTE Band4, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1755MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:24:05

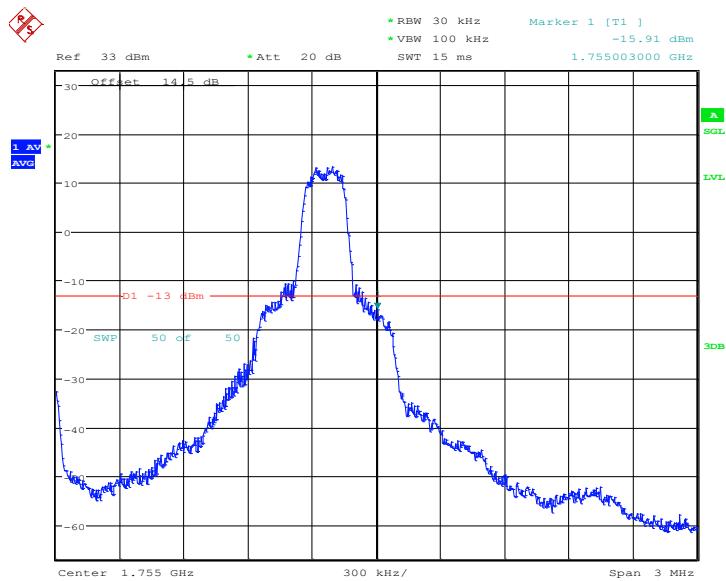
LTE Band4, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



Date: 8.JUL.2016 10:24:26

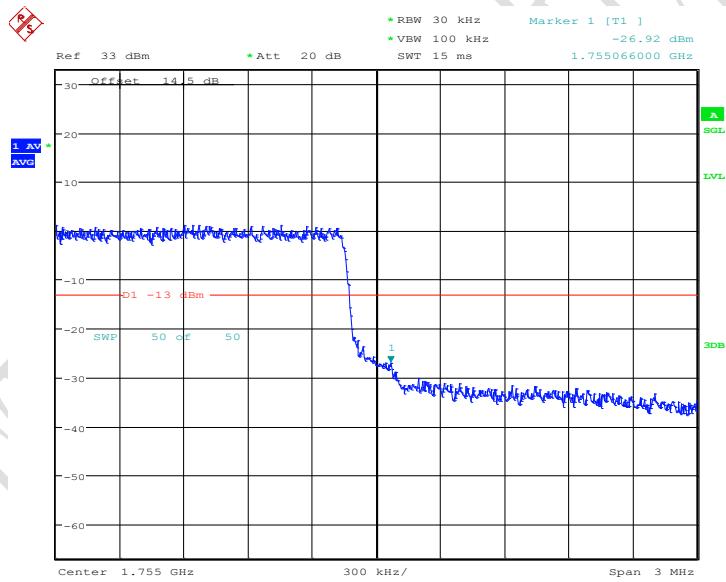
LTE Band4, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:26:12

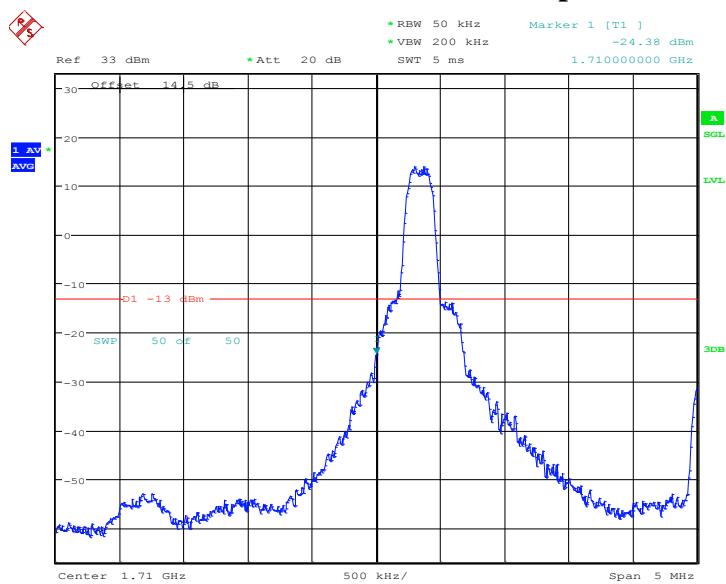
LTE Band4, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 1755MHz



Date: 8.JUL.2016 10:26:35

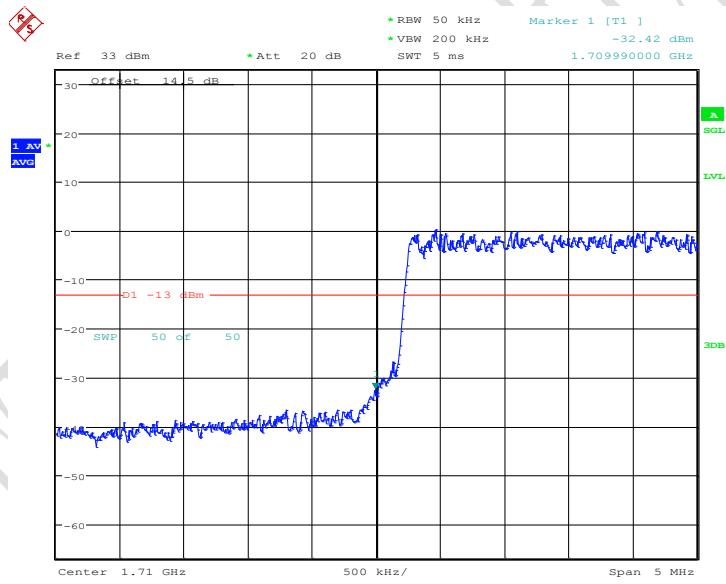
LTE Band4, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 1755MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:28:21

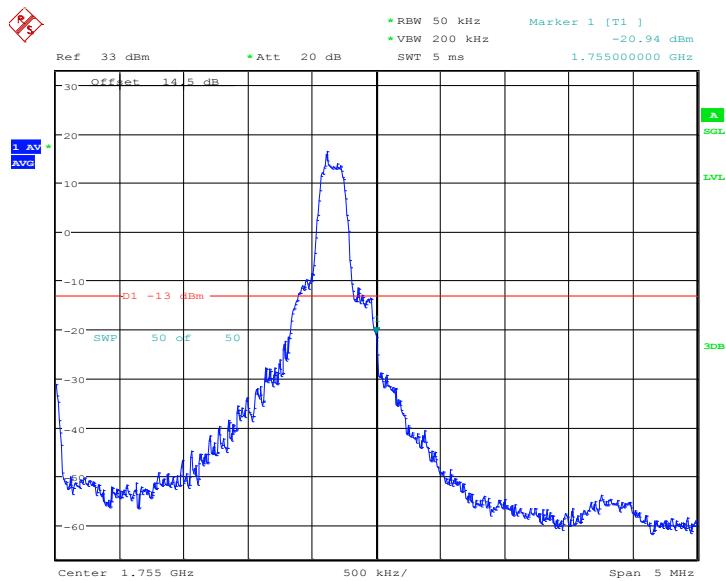
LTE Band4, 5MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



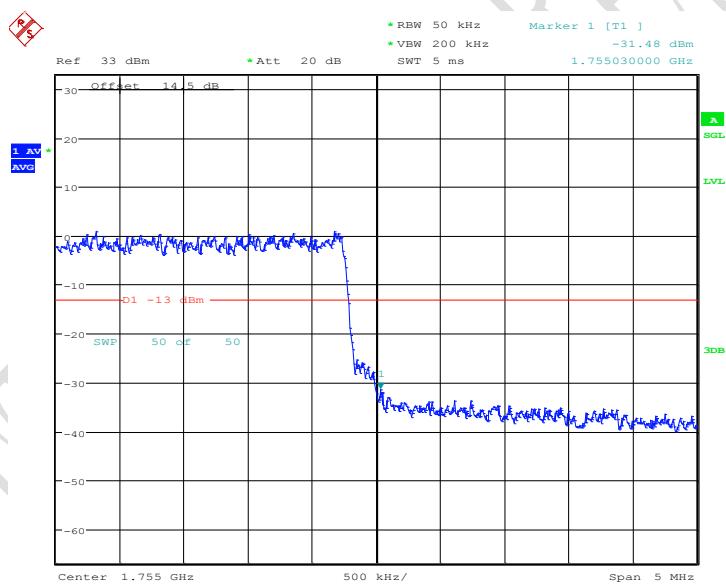
Date: 8.JUL.2016 10:29:22

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

Report No.: B16X50266-WWAN-Rev3

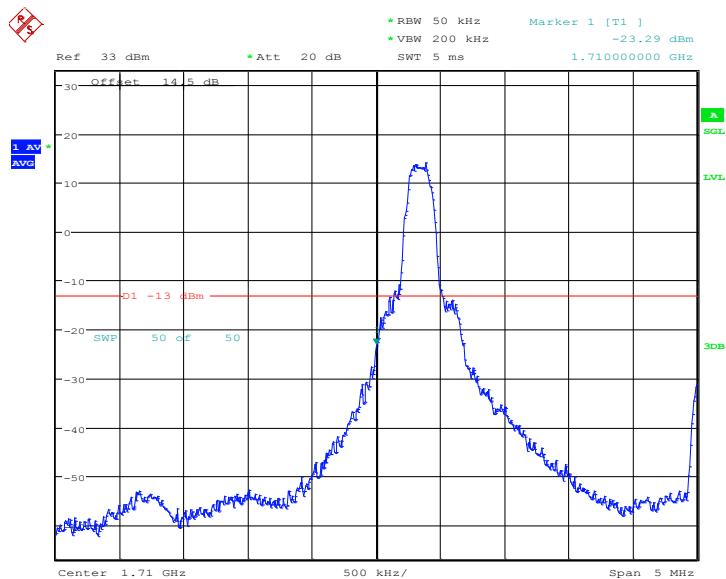


LTE Band4, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1755MHz

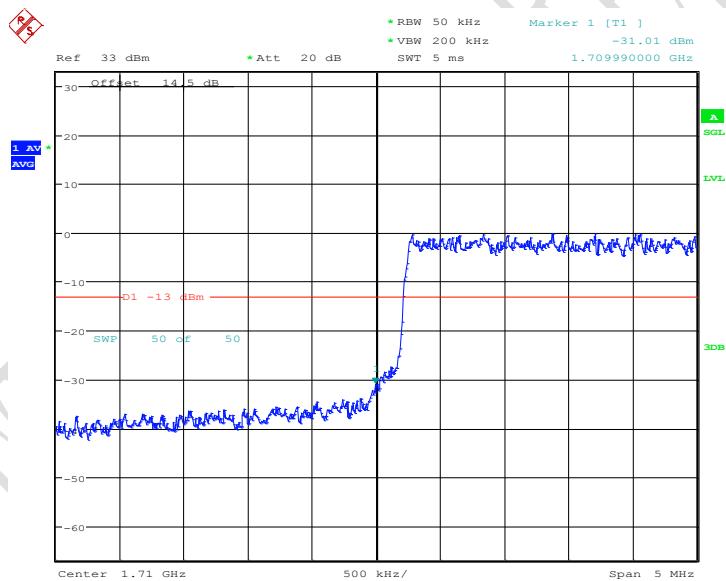


LTE Band4, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1755MHz

Report No.: B16X50266-WWAN-Rev3



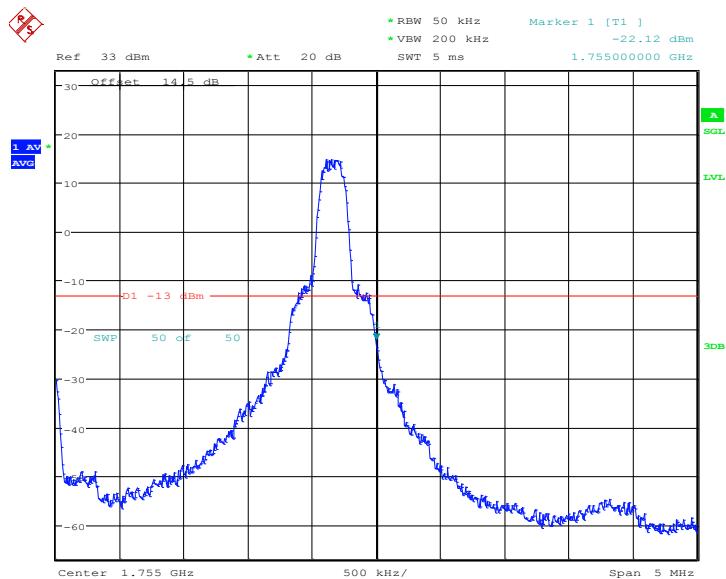
LTE Band4, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



Date: 8.JUL.2016 10:29:01

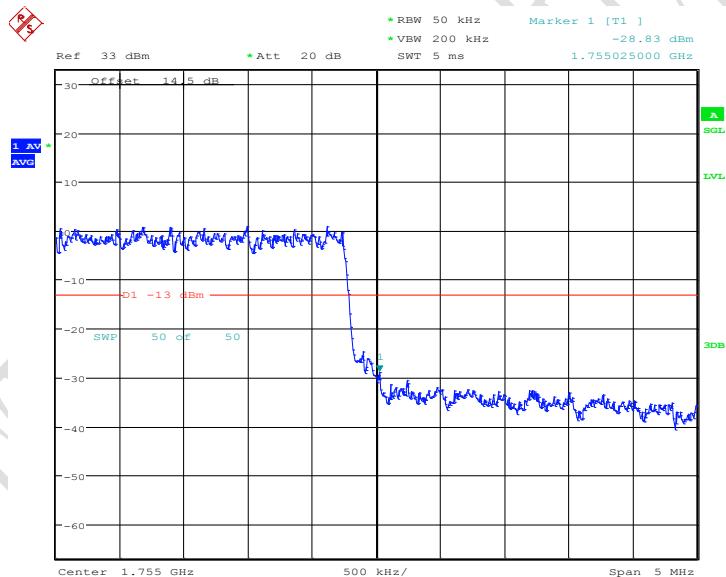
LTE Band4, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:30:36

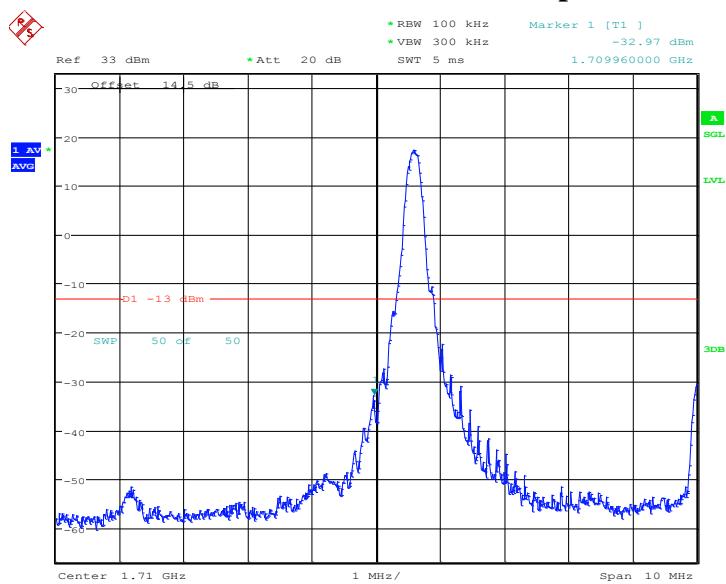
LTE Band4, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1755MHz



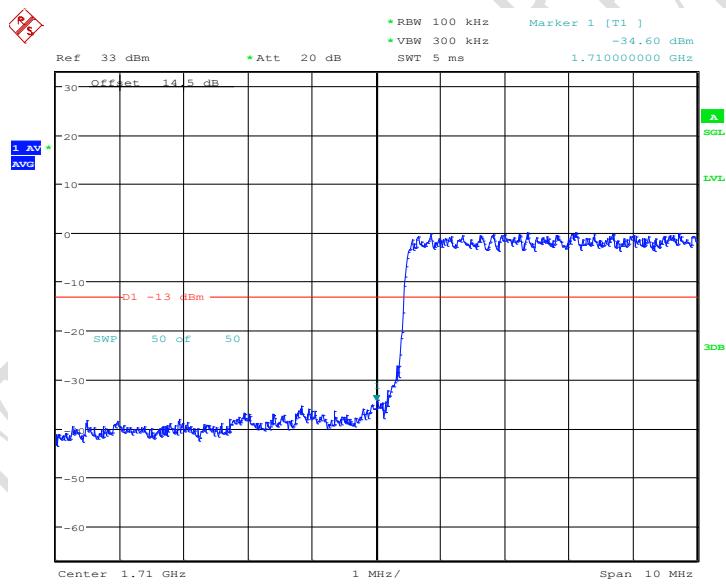
Date: 8.JUL.2016 10:30:54

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

Report No.: B16X50266-WWAN-Rev3

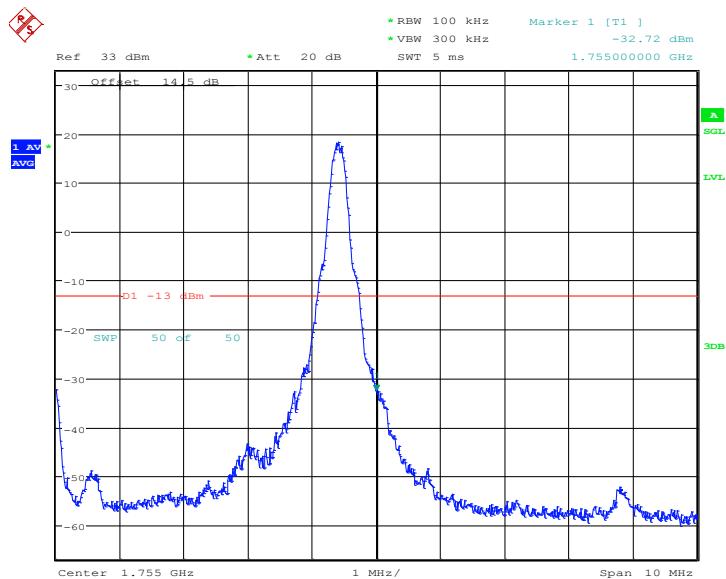


LTE Band4, 10MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

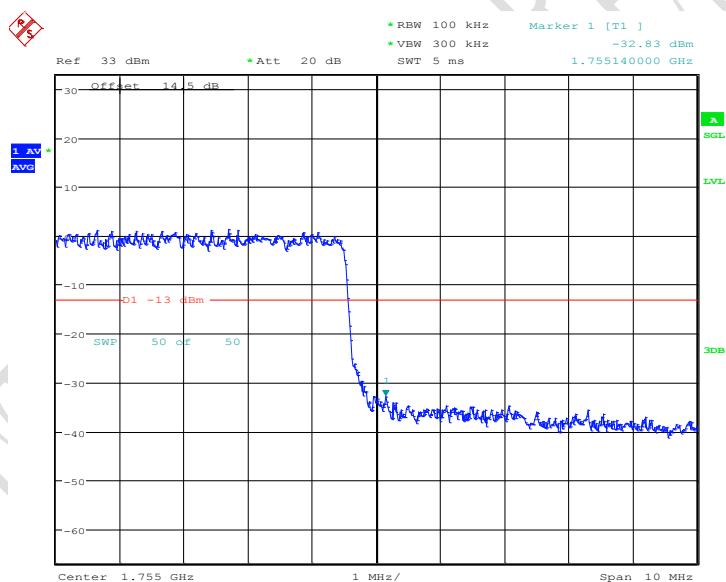


LTE Band4, 10MHz bandwidth, QPSK,(50,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3

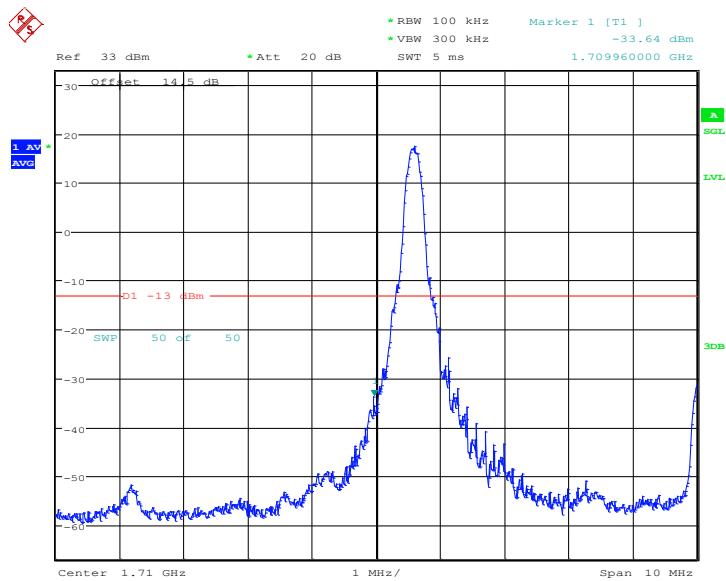


LTE Band4, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1755MHz



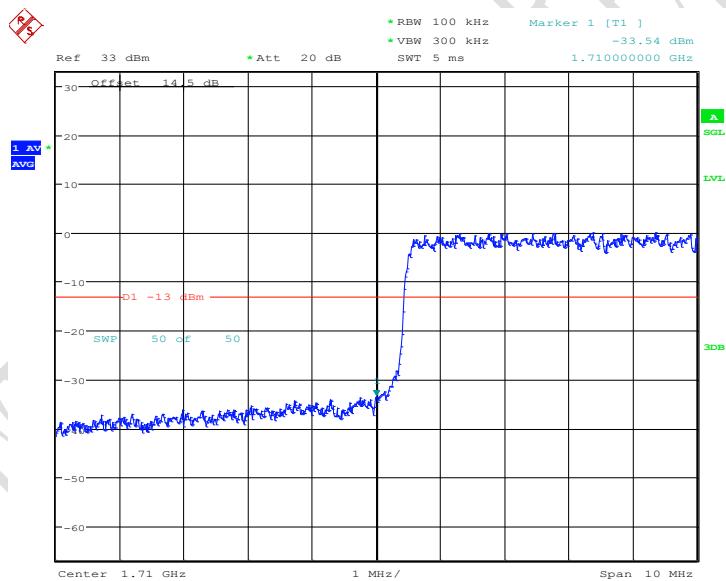
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Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:32:53

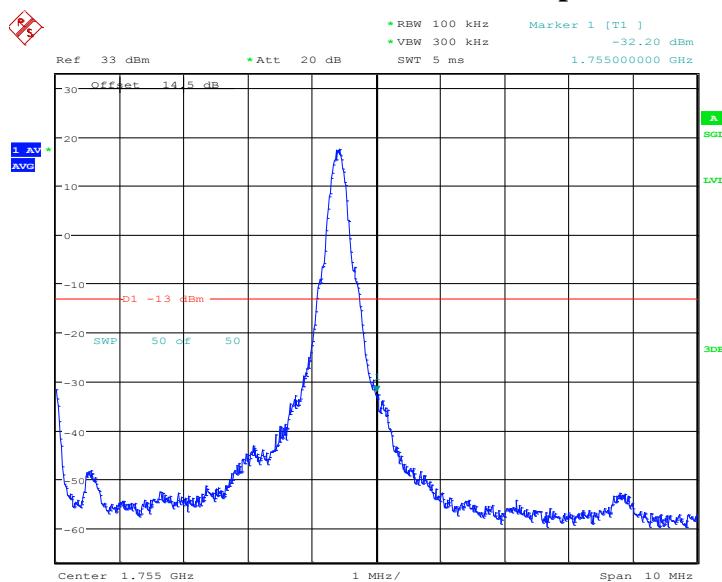
LTE Band4, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



Date: 8.JUL.2016 10:33:14

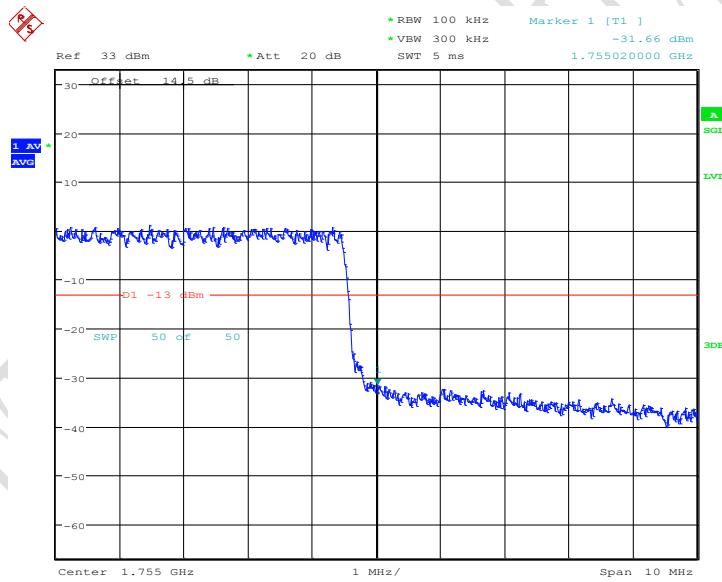
LTE Band4, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:34:30

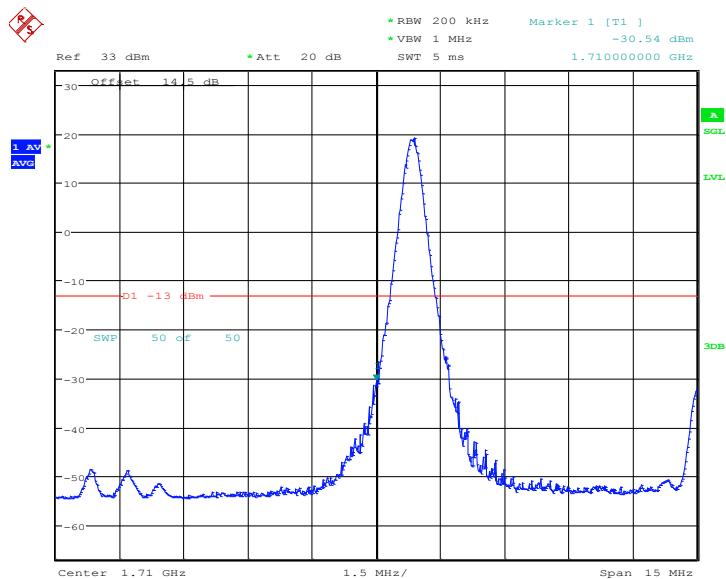
LTE Band4, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1755MHz



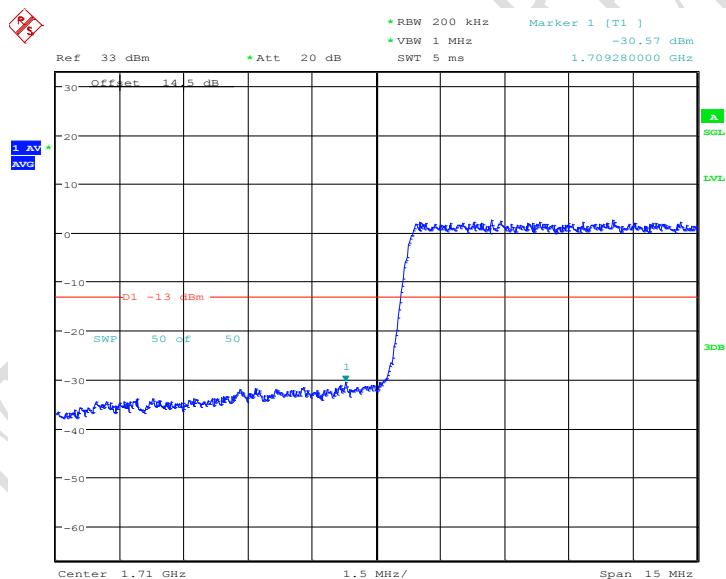
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LTE Band4, 10MHz bandwidth, 16QAM,(50,0) Mode, Above 1755MHz

Report No.: B16X50266-WWAN-Rev3

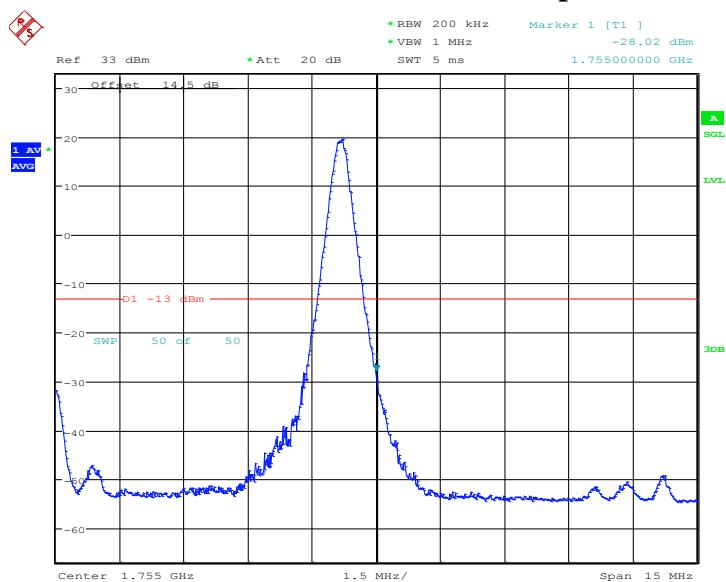


LTE Band4, 15MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



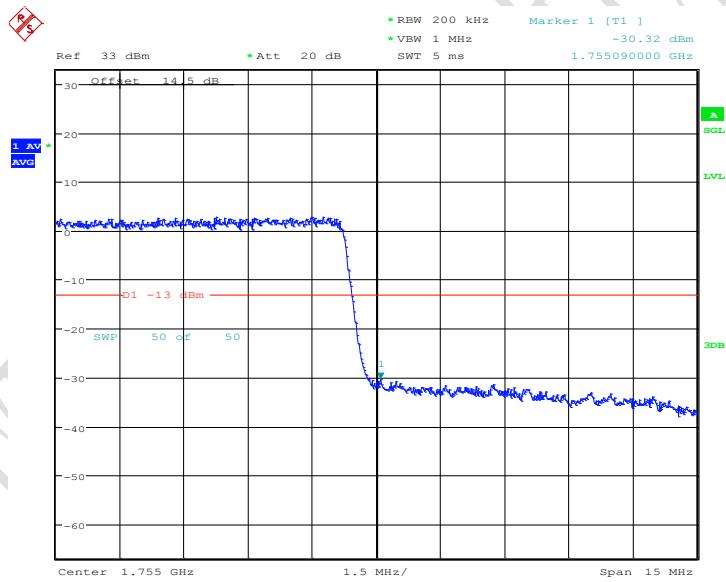
LTE Band4, 15MHz bandwidth, QPSK,(75,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:38:06

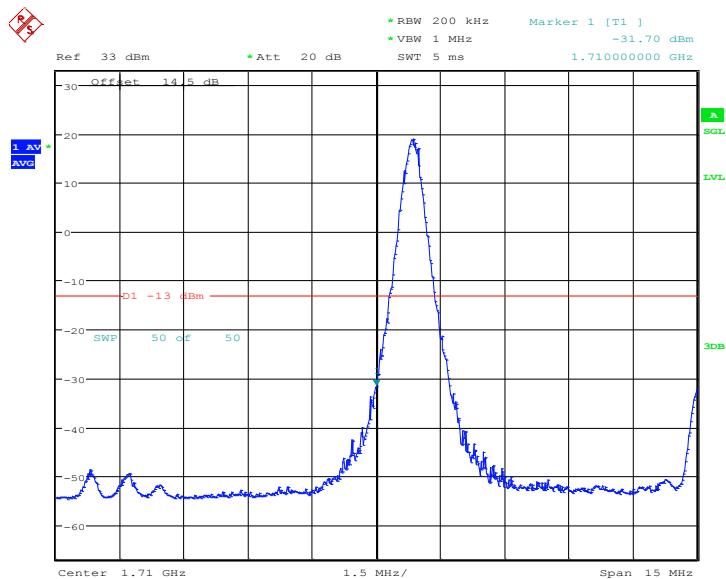
LTE Band4, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1755MHz



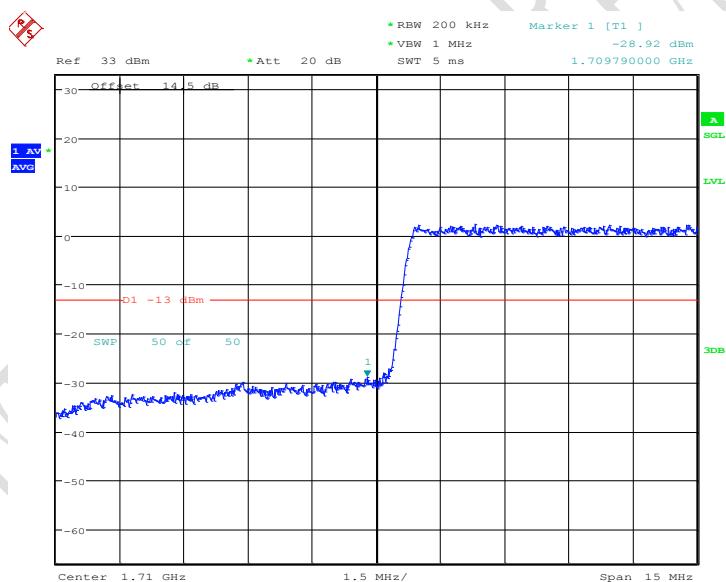
Date: 8.JUL.2016 10:39:00

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

Report No.: B16X50266-WWAN-Rev3

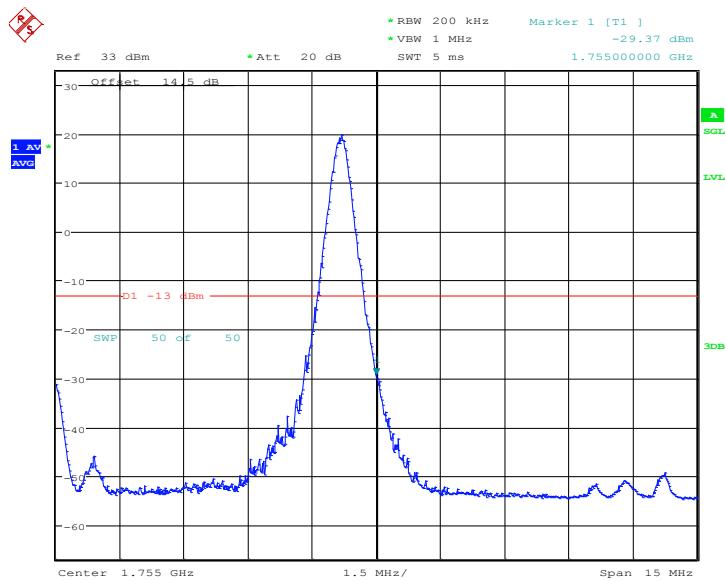


LTE Band4, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz

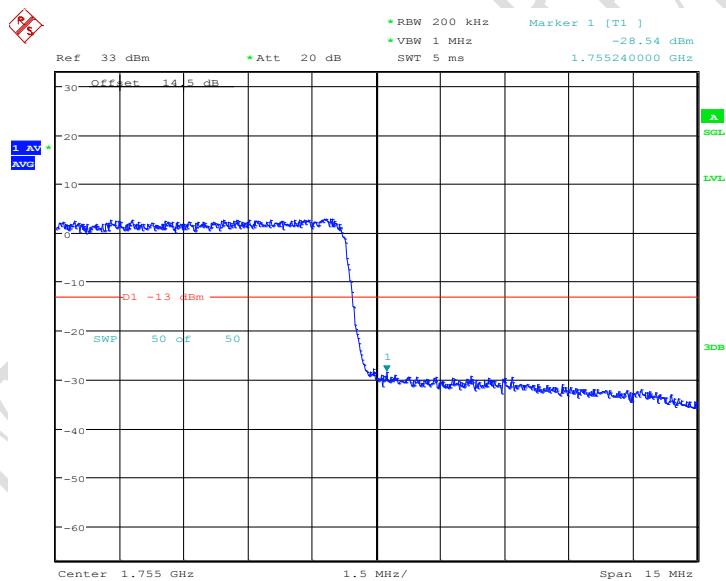


LTE Band4, 15MHz bandwidth, 16QAM,(75,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3

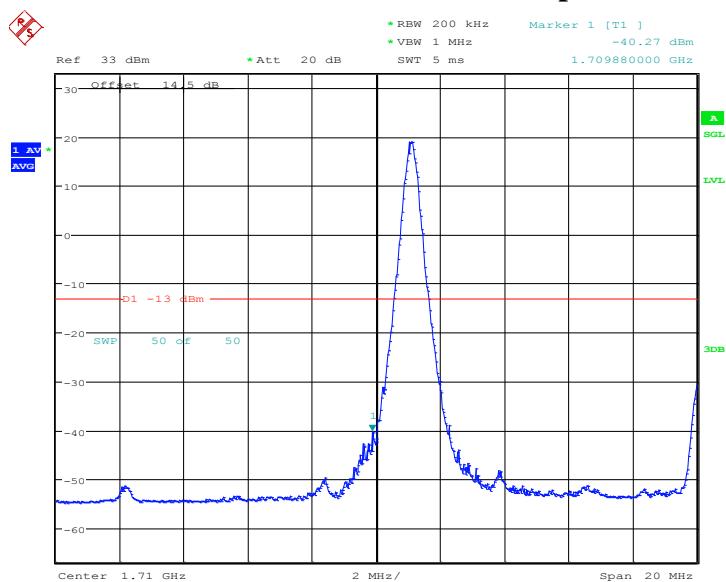


LTE Band4, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1755MHz

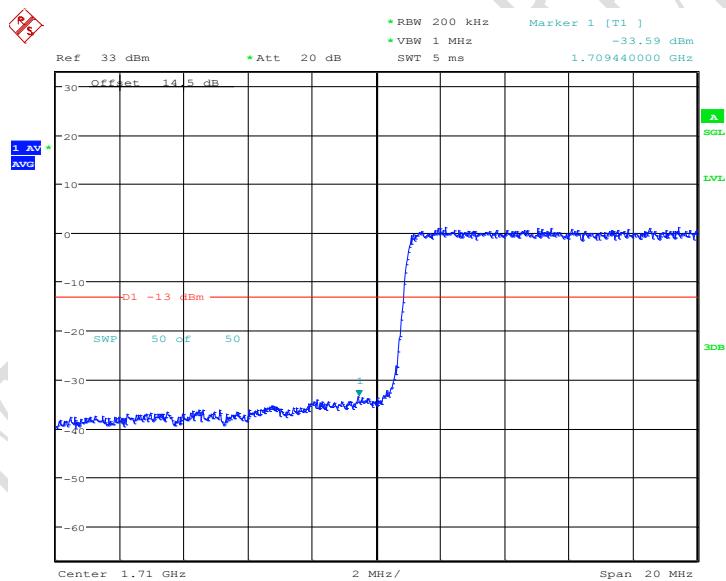


LTE Band4, 15MHz bandwidth, 16QAM,(75,0) Mode, Above 1755MHz

Report No.: B16X50266-WWAN-Rev3

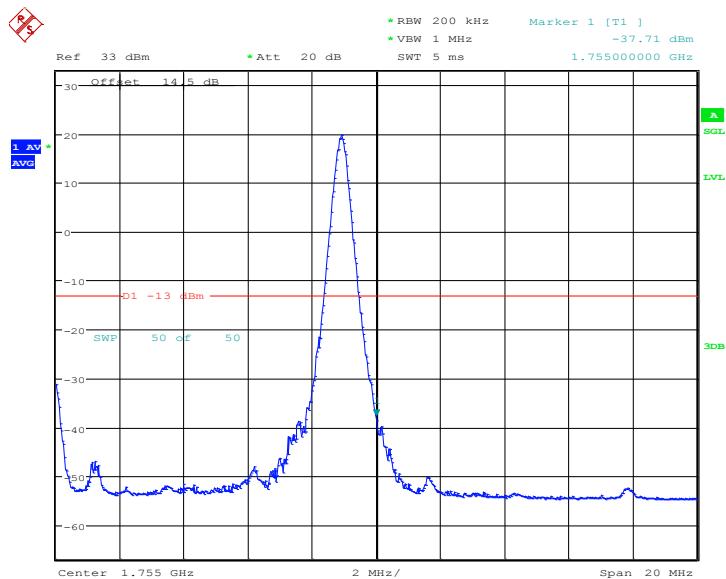


LTE Band4, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

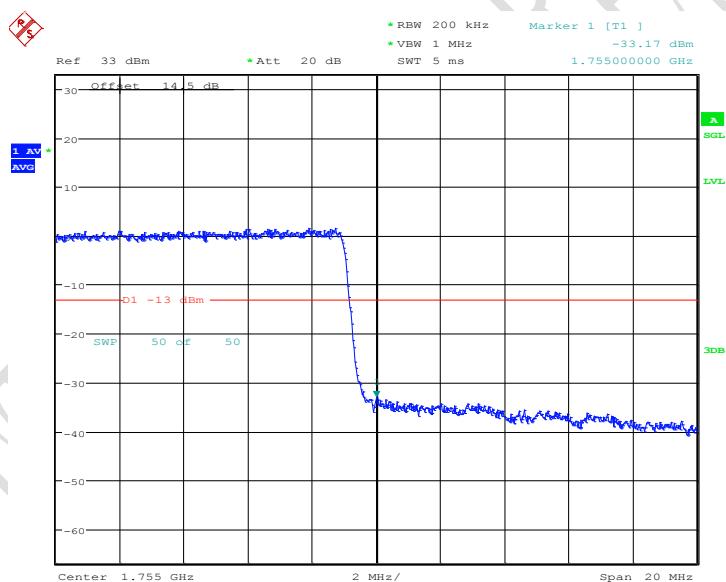


LTE Band4, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3

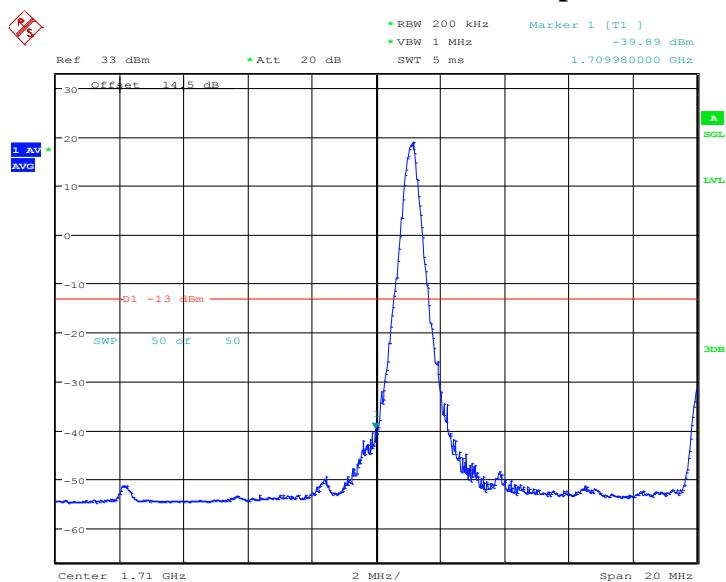


LTE Band4, 20MHz bandwidth, QPSK,(1,100) Mode, Above 1755MHz



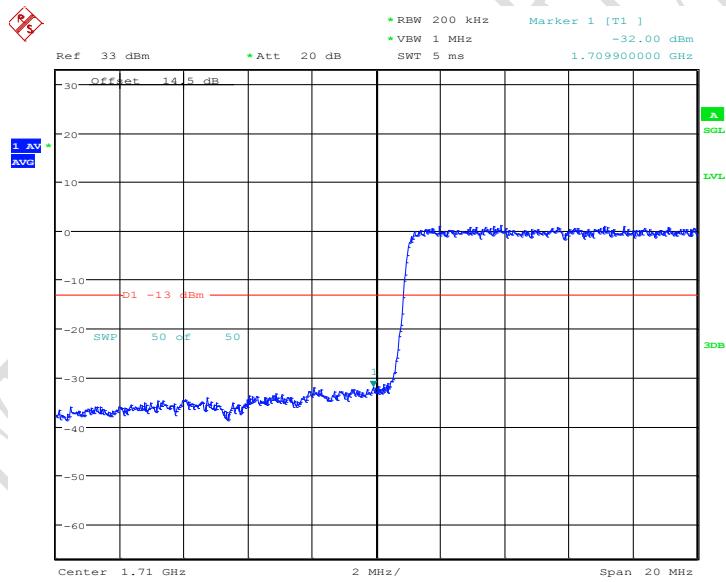
LTE Band4, 20MHz bandwidth, QPSK,(100,0) Mode, Above 1755MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:40:56

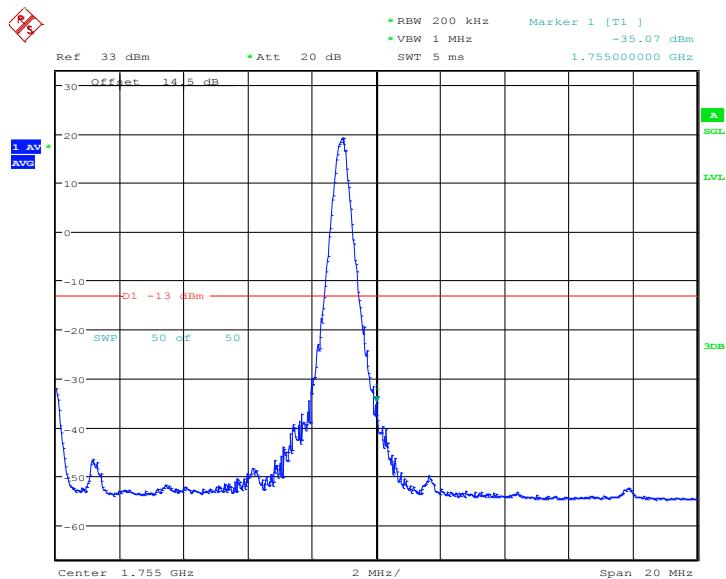
LTE Band4, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



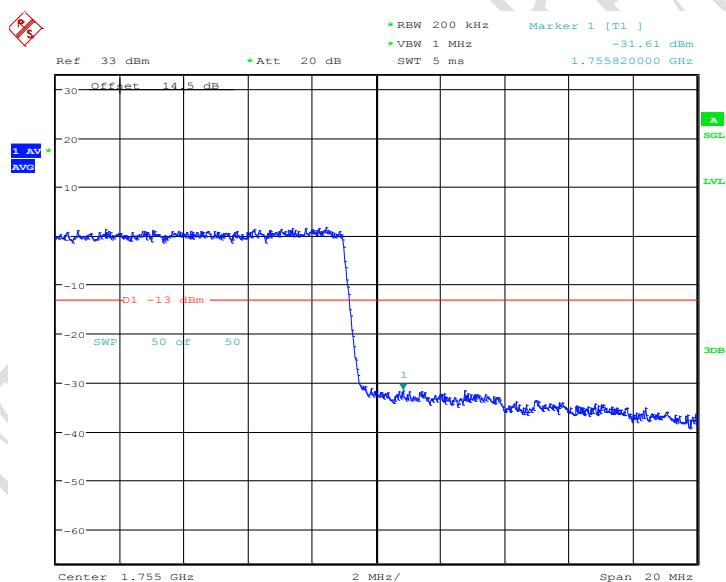
Date: 8.JUL.2016 10:41:13

LTE Band4, 20MHz bandwidth, 16QAM,(100,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3

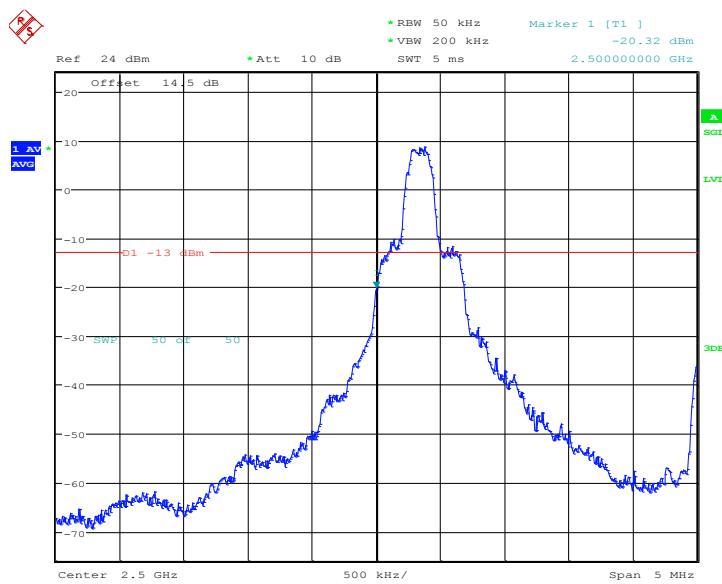


LTE Band4, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1755MHz



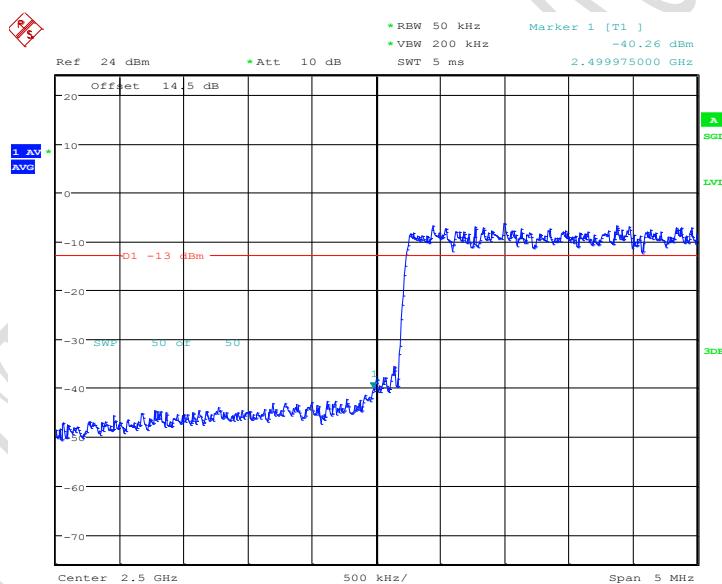
LTE Band4, 20MHz bandwidth, 16QAM,100,0 Mode, Above 1755MHz

5.5.11 LTE B7 Band Edge Results



Date: 8.JUL.2016 11:46:30

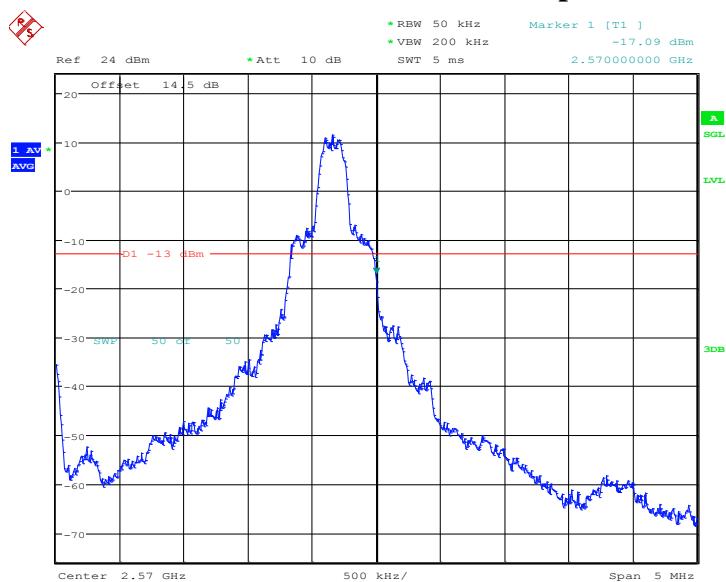
LTE Band7, 5MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz



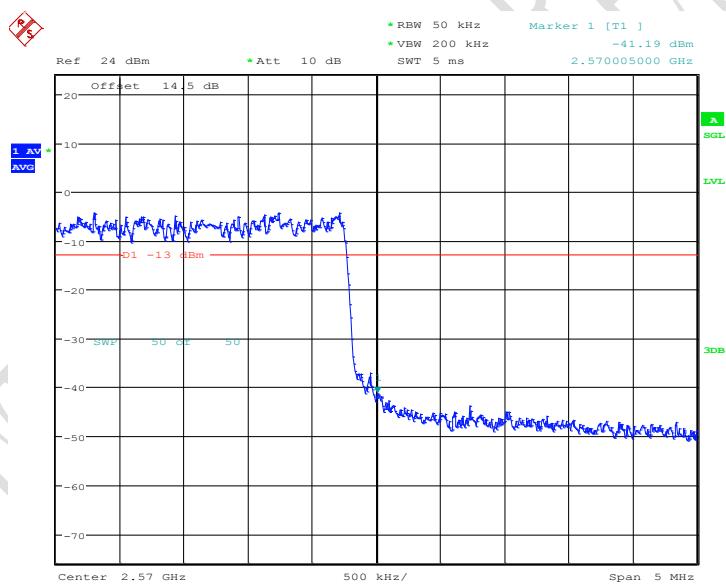
Date: 8.JUL.2016 11:47:51

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

Report No.: B16X50266-WWAN-Rev3

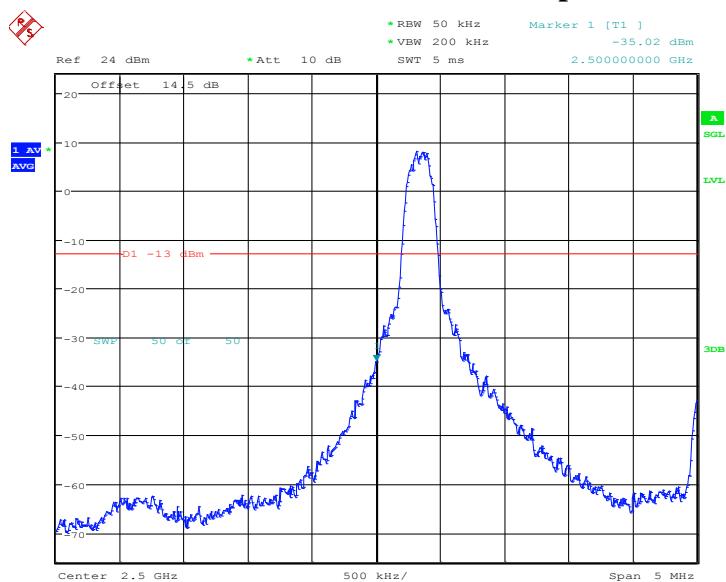


LTE Band7, 5MHz bandwidth, QPSK,(1,25) Mode, Above 2570MHz



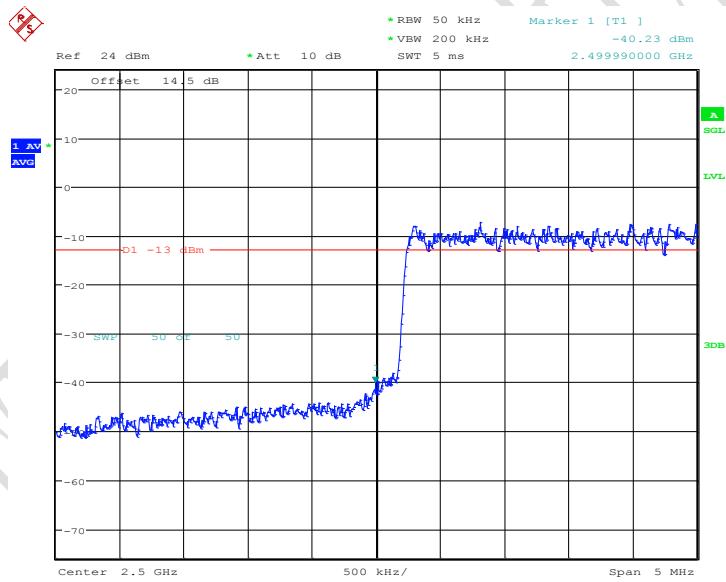
LTE Band7, 5MHz bandwidth, QPSK,(25,0) Mode, Above 2570MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 11:46:57

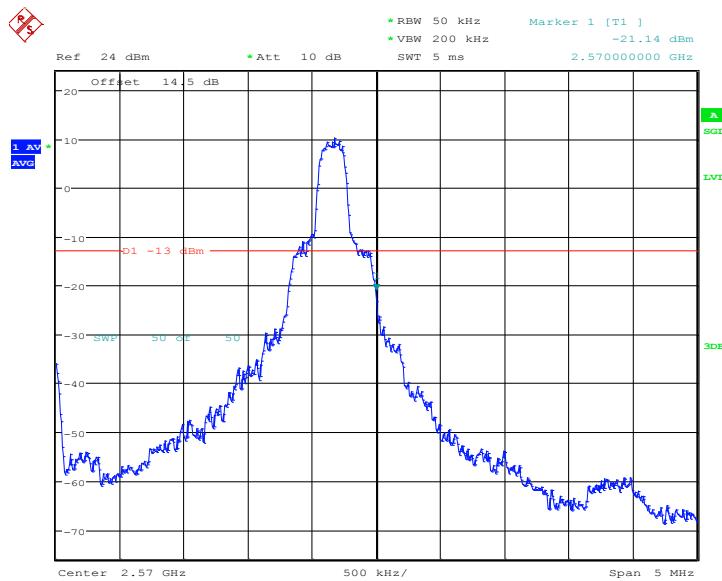
LTE Band7, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz



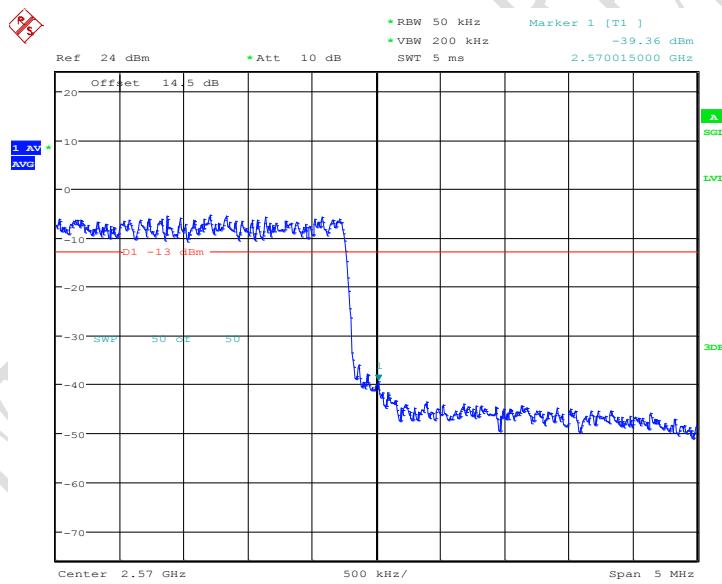
Date: 8.JUL.2016 11:47:33

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

Report No.: B16X50266-WWAN-Rev3

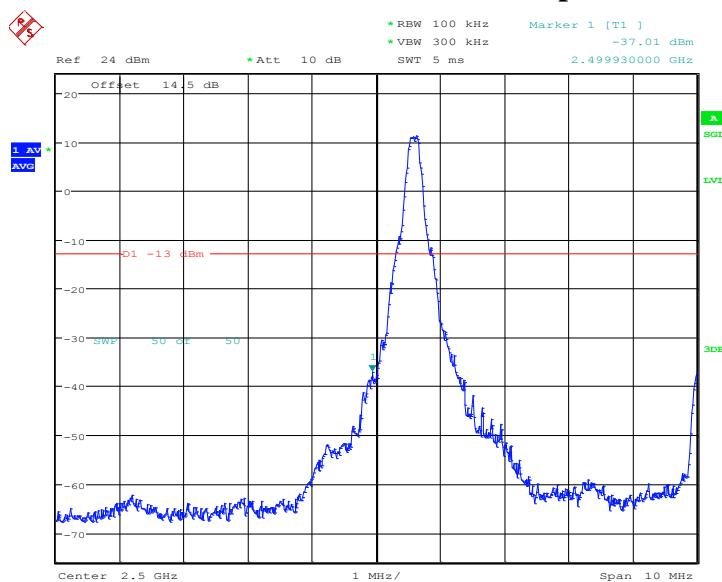


LTE Band7, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 2570MHz



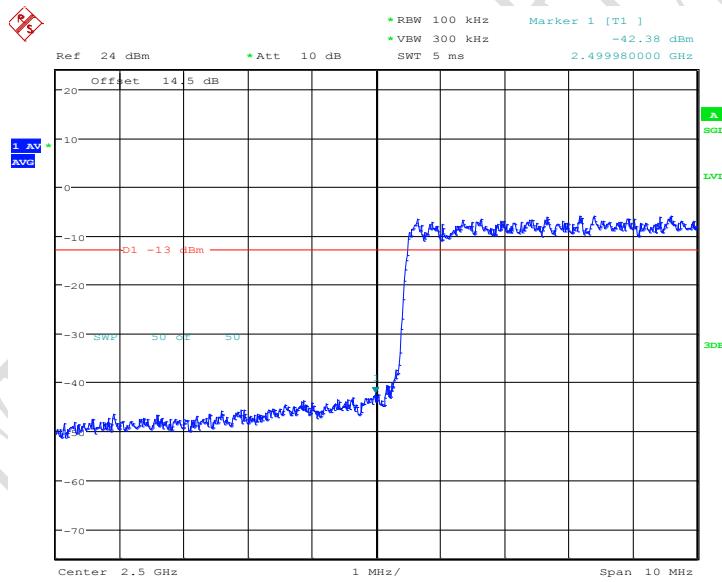
LTE Band7, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 2570MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 11:51:19

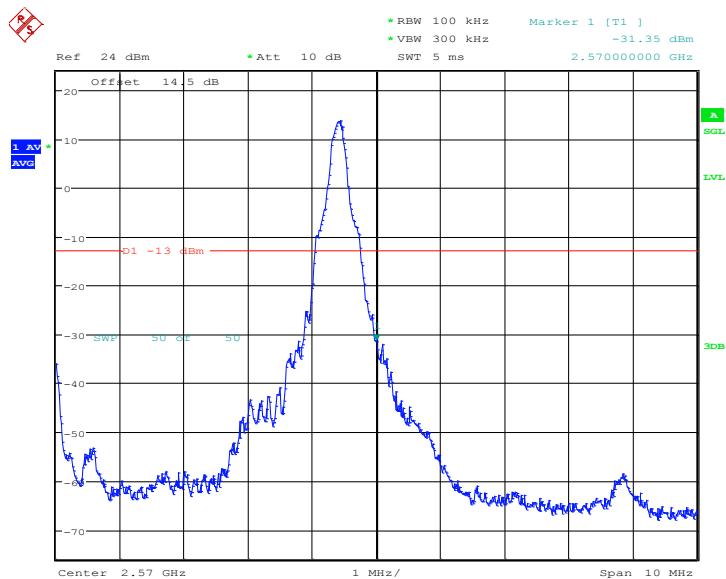
LTE Band7, 10MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz



Date: 8.JUL.2016 11:52:16

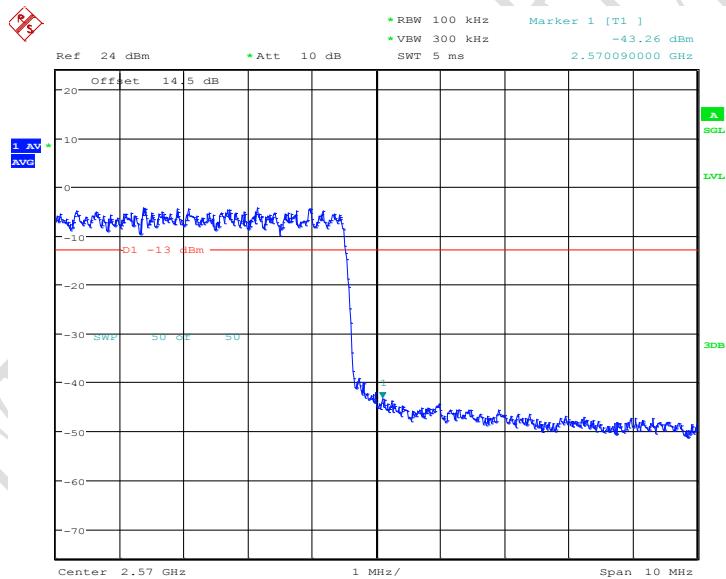
LTE Band7, 10MHz bandwidth, QPSK,(50,0) Mode , Below 2500MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 11:52:49

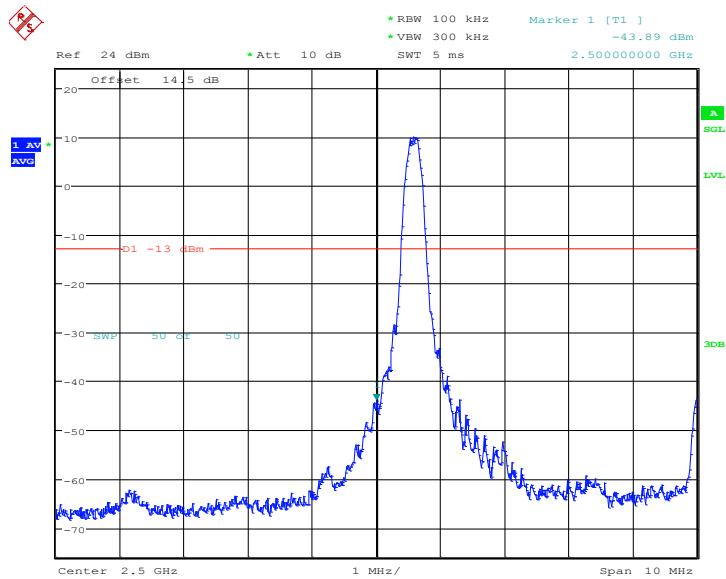
LTE Band7, 10MHz bandwidth, QPSK,(1,50) Mode, Above 2570MHz



Date: 8.JUL.2016 11:53:45

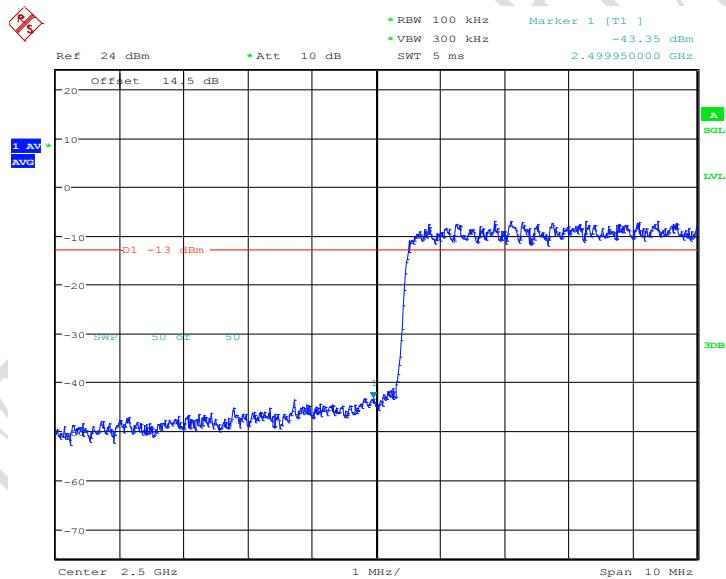
LTE Band7, 10MHz bandwidth, QPSK,(50,0) Mode, Above 2570MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 11:51:39

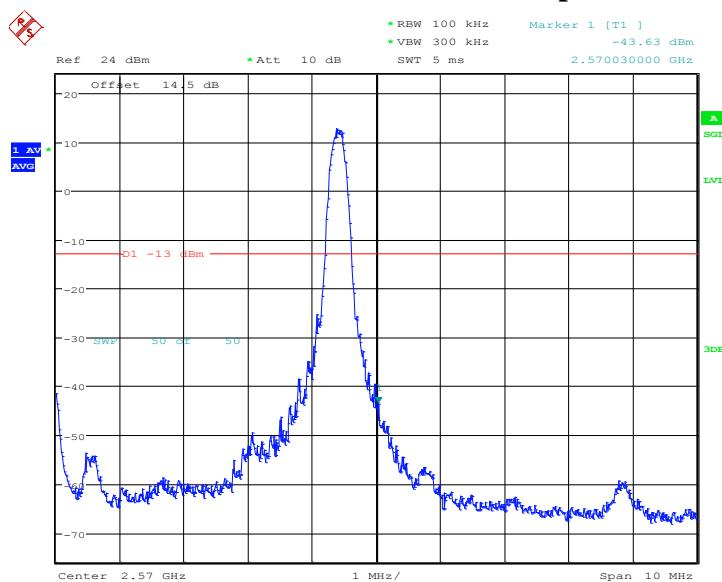
LTE Band7, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz



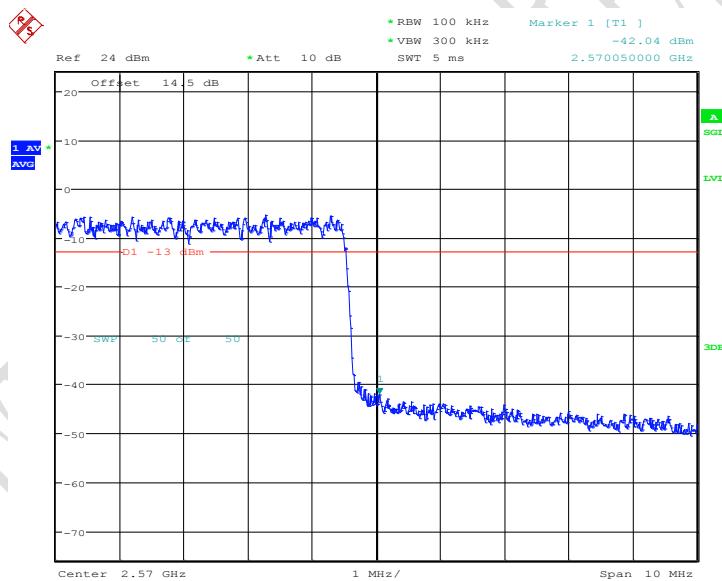
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LTE Band7, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 2500MHz

Report No.: B16X50266-WWAN-Rev3

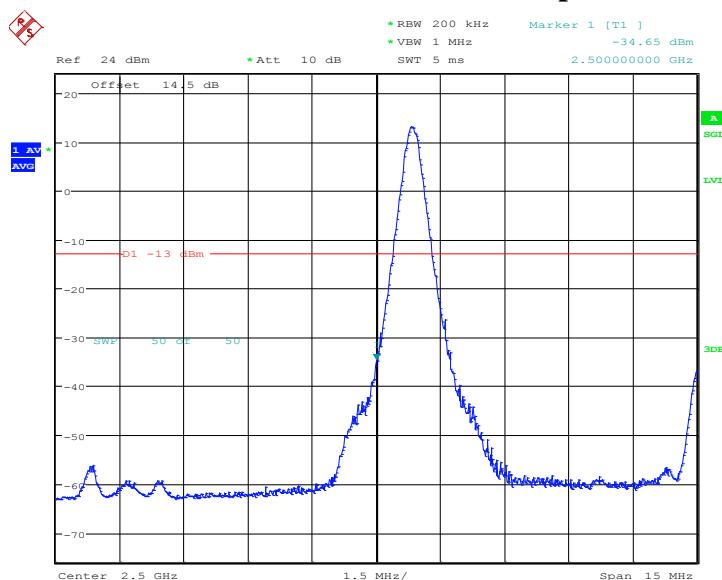


LTE Band7, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 2570MHz

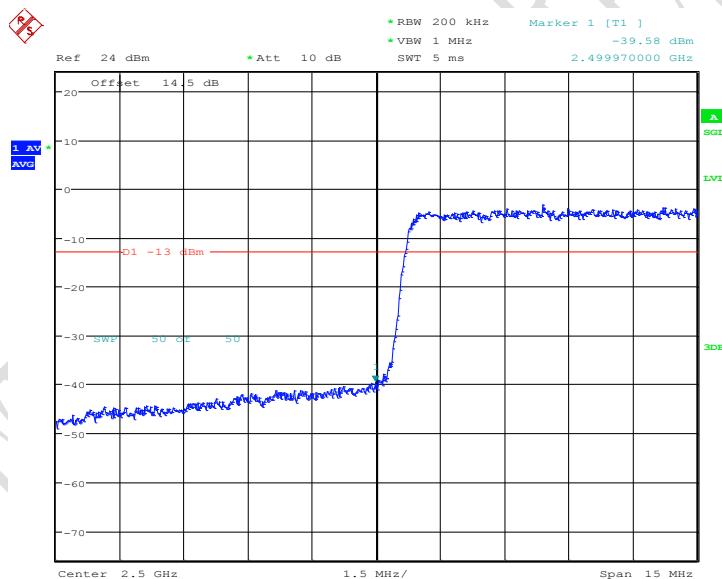


LTE Band7, 10MHz bandwidth, 16QAM,(50,0) Mode, Above 2570MHz

Report No.: B16X50266-WWAN-Rev3

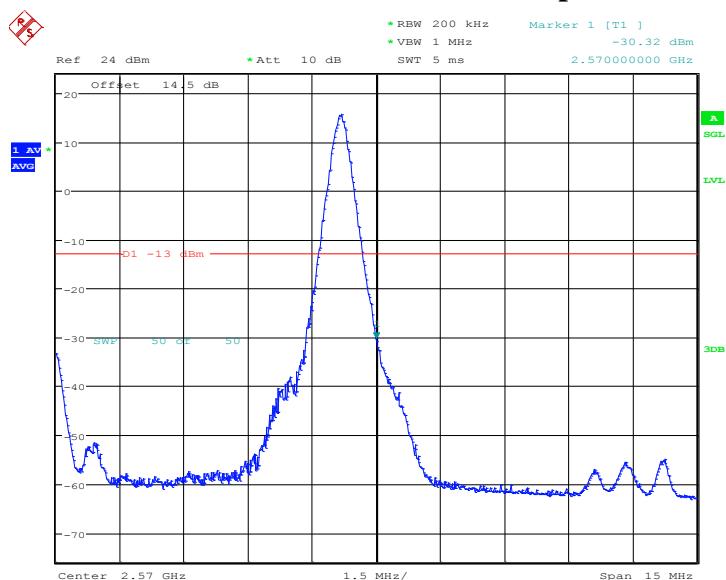


LTE Band7, 15MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz

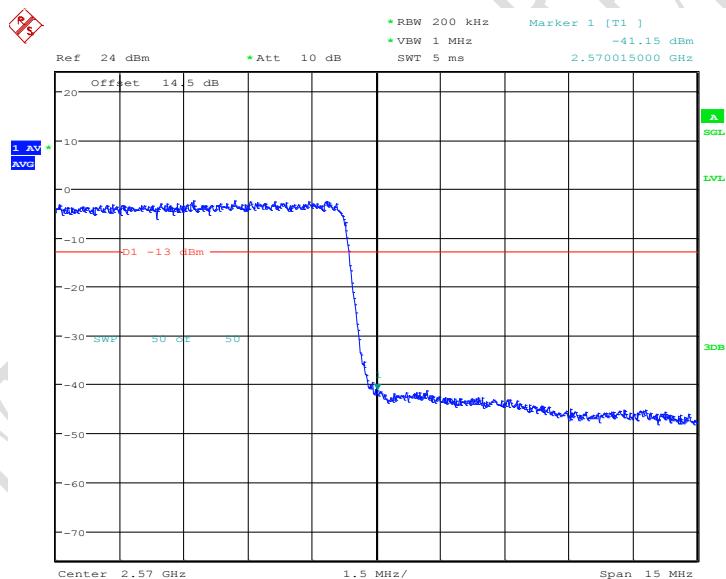


LTE Band7, 15MHz bandwidth, QPSK,(75,0) Mode , Below 2500MHz

Report No.: B16X50266-WWAN-Rev3

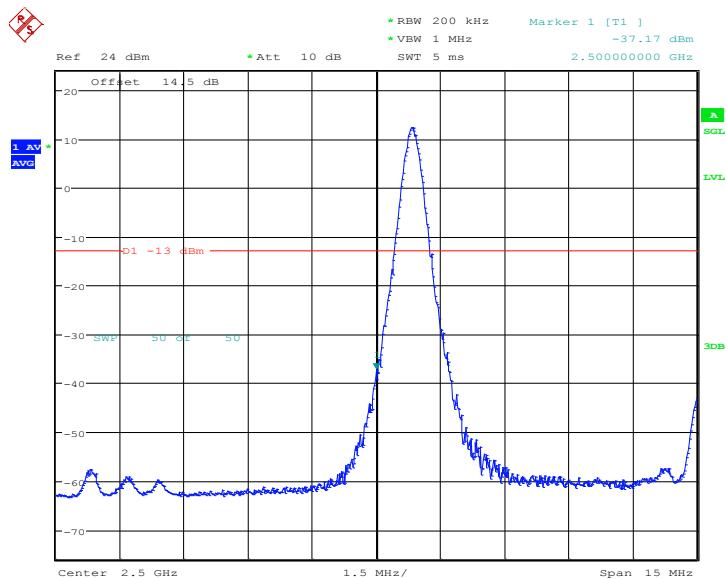


LTE Band7, 15MHz bandwidth, QPSK,(1,75) Mode, Above 2570MHz



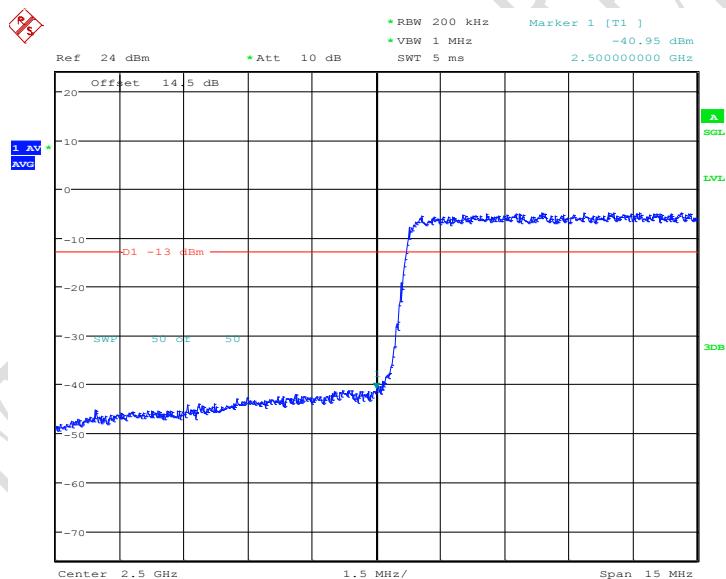
LTE Band7, 15MHz bandwidth, QPSK,(75,0) Mode, Above 2570MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 11:54:48

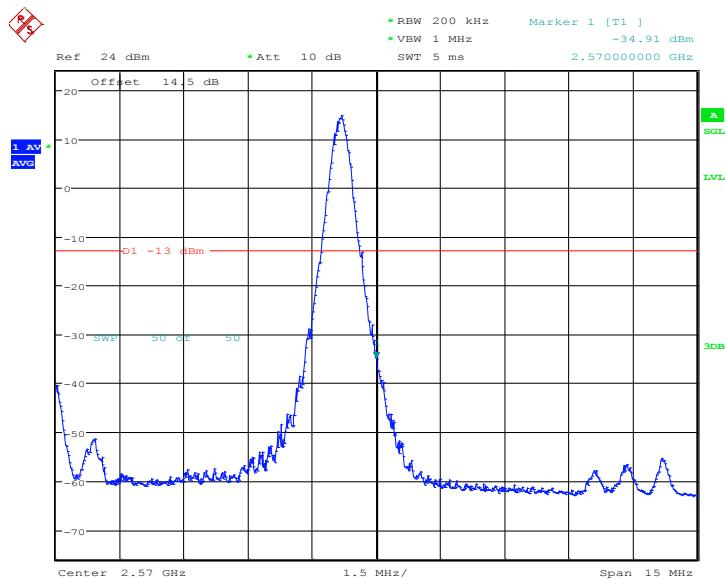
LTE Band7, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz



Date: 8.JUL.2016 11:55:02

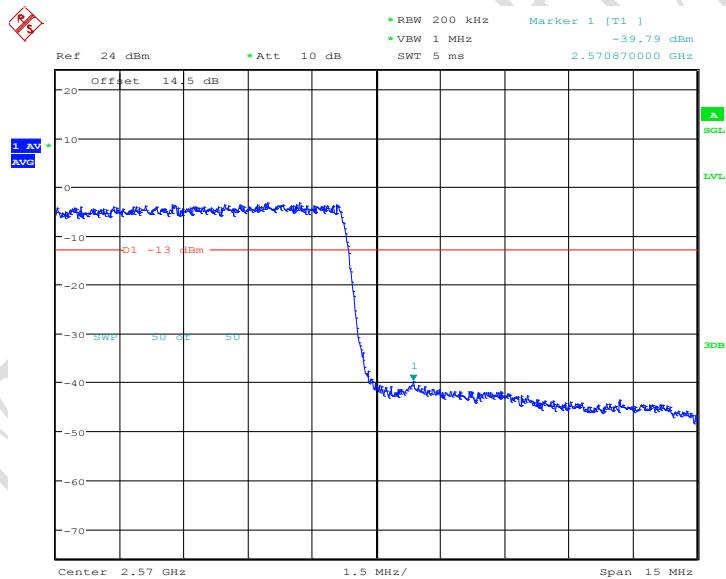
LTE Band7, 15MHz bandwidth, 16QAM,(75,0) Mode , Below 2500MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 11:56:10

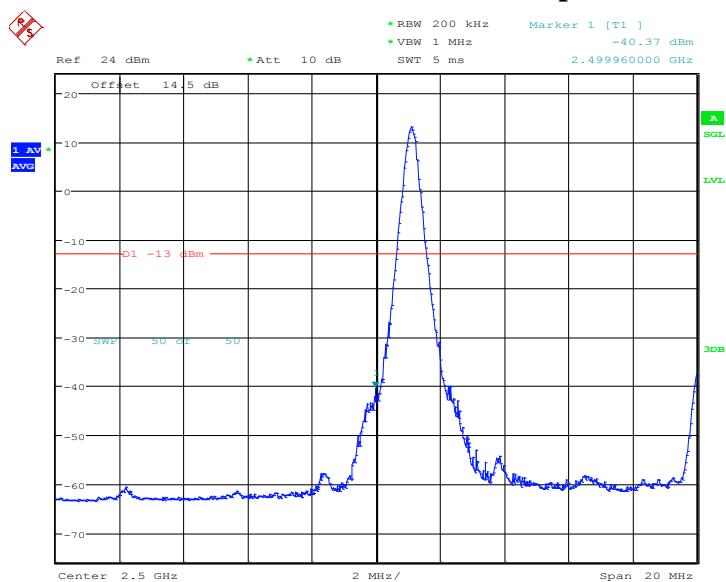
LTE Band7, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 2570MHz



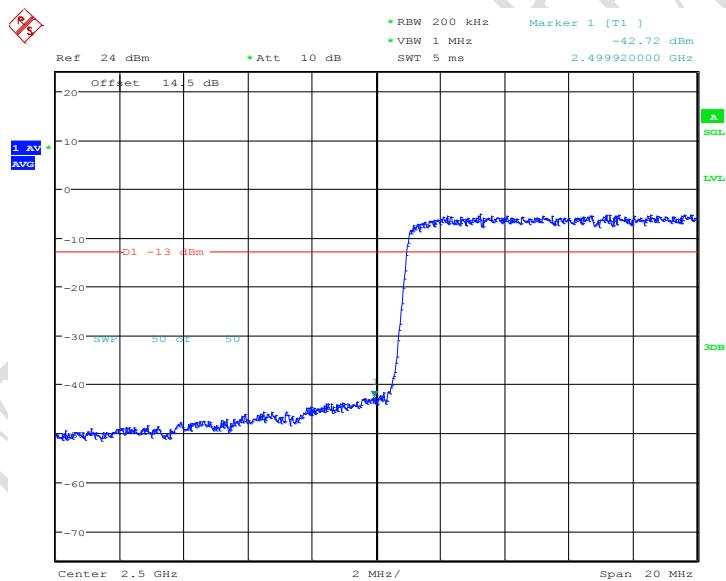
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LTE Band7, 15MHz bandwidth, 16QAM,(75,0) Mode, Above 2570MHz

Report No.: B16X50266-WWAN-Rev3

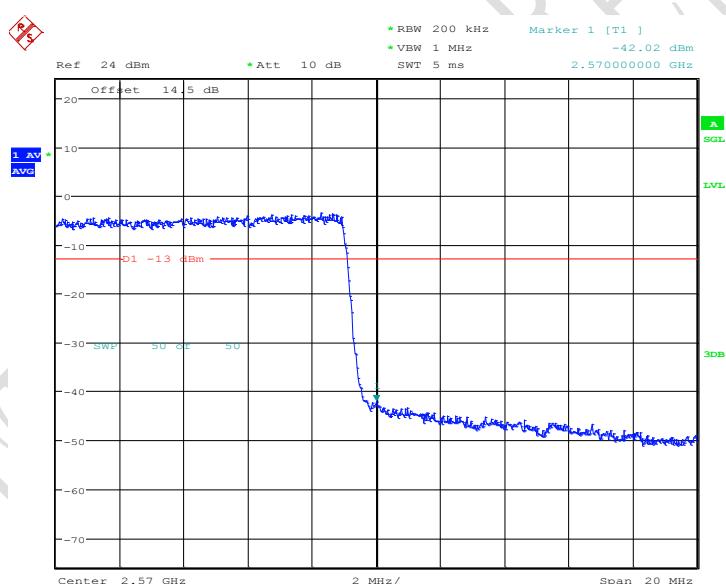
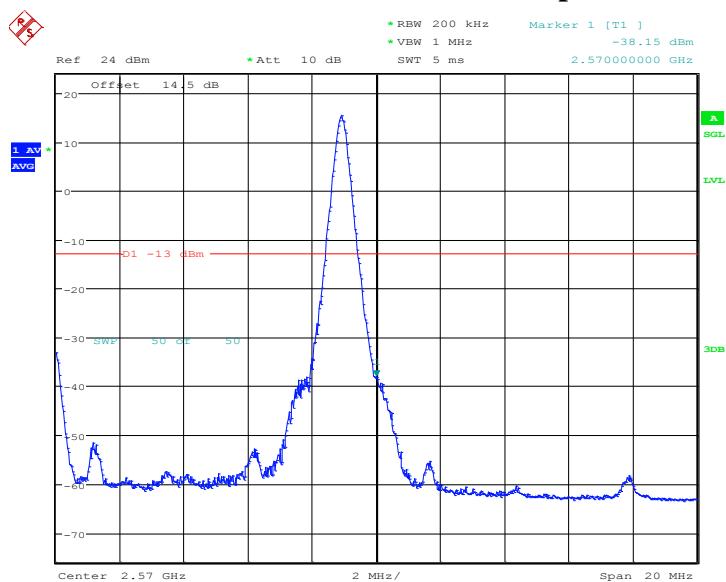


LTE Band7, 20MHz bandwidth, QPSK,(1,0) Mode , Below 2500MHz

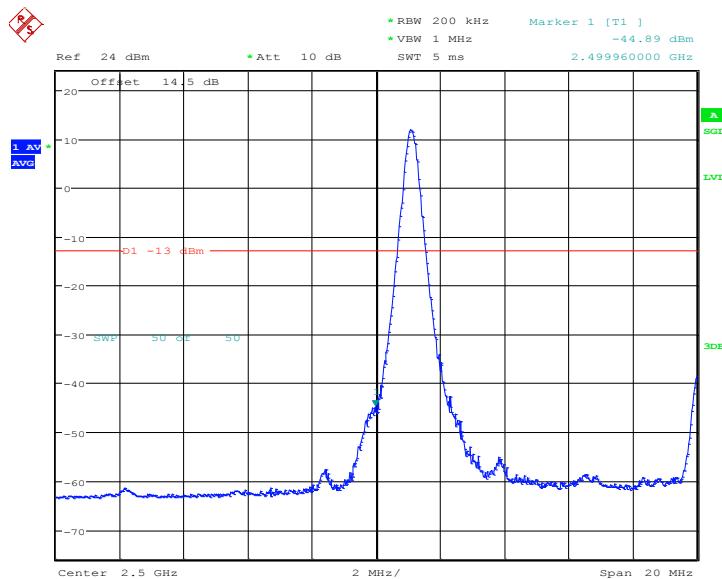


LTE Band7, 20MHz bandwidth, QPSK,(100,0) Mode , Below 2500MHz

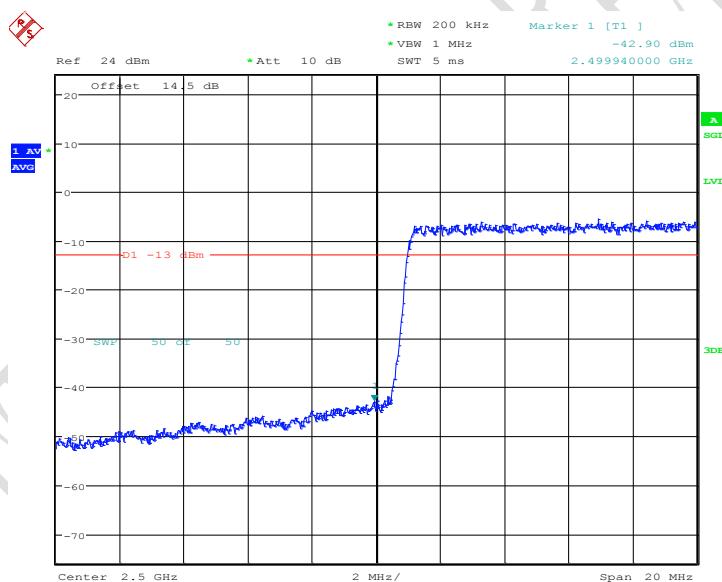
Report No.: B16X50266-WWAN-Rev3



Report No.: B16X50266-WWAN-Rev3

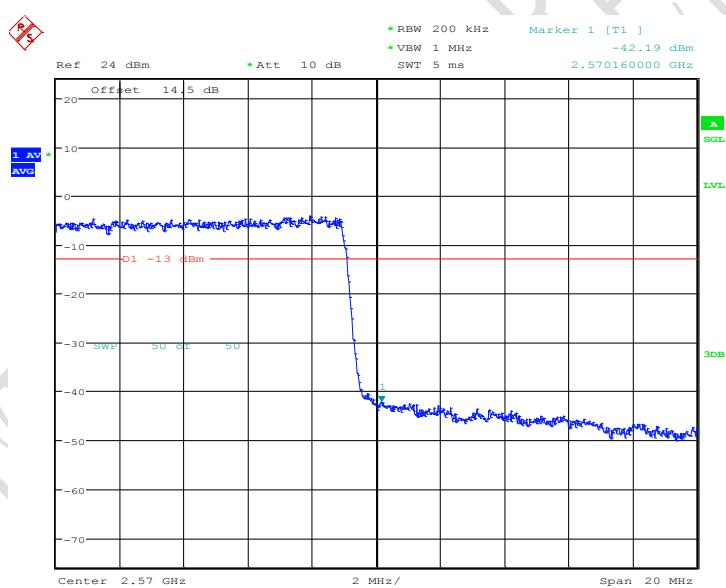
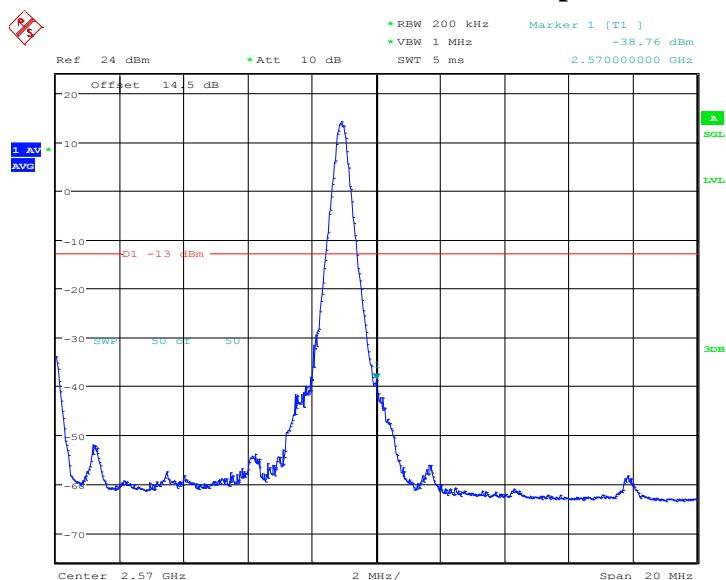


LTE Band7, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 2500MHz

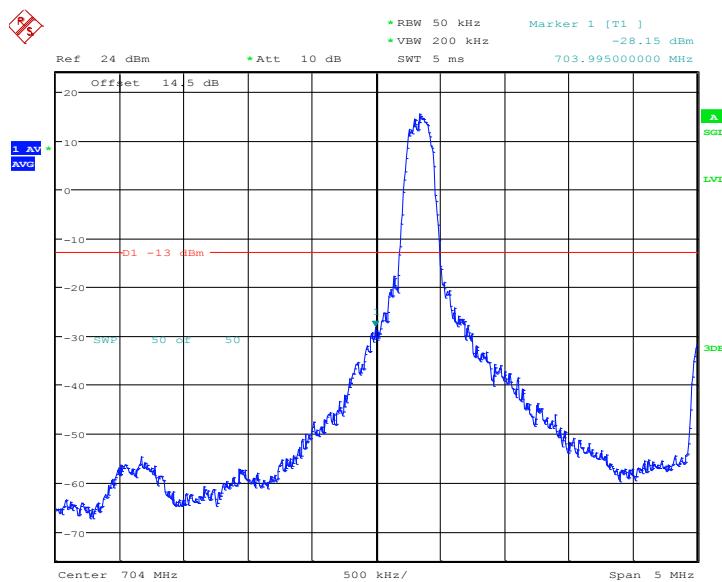


LTE Band7, 20MHz bandwidth, 16QAM,(100,0) Mode , Below 2500MHz

Report No.: B16X50266-WWAN-Rev3

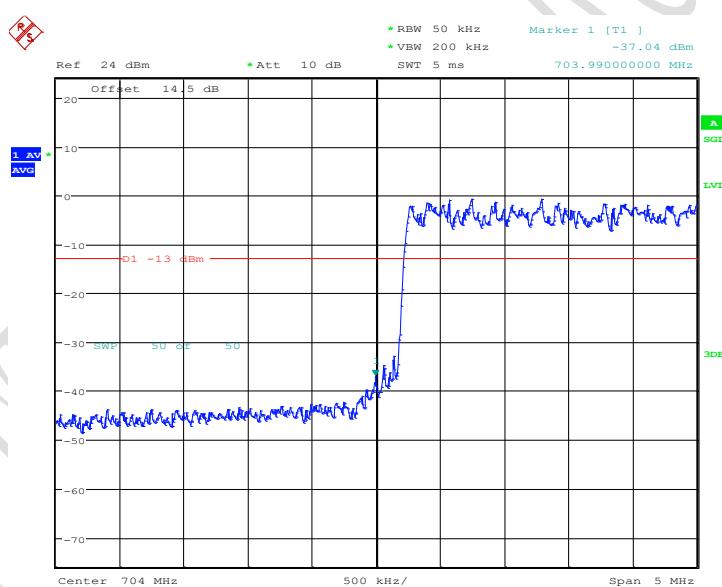


5.5.12 LTE B17 Band Edge Results



Date: 8.JUL.2016 14:06:28

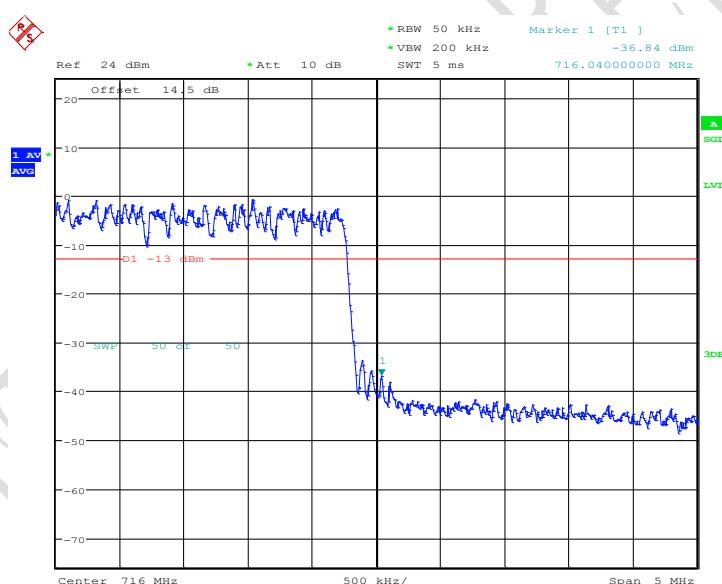
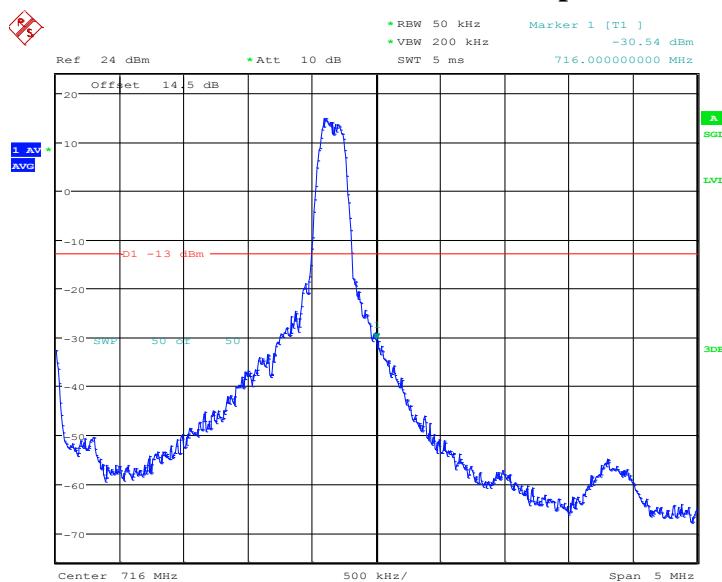
LTE Band17, 5MHz bandwidth, QPSK,(1,0) Mode , Below 704MHz



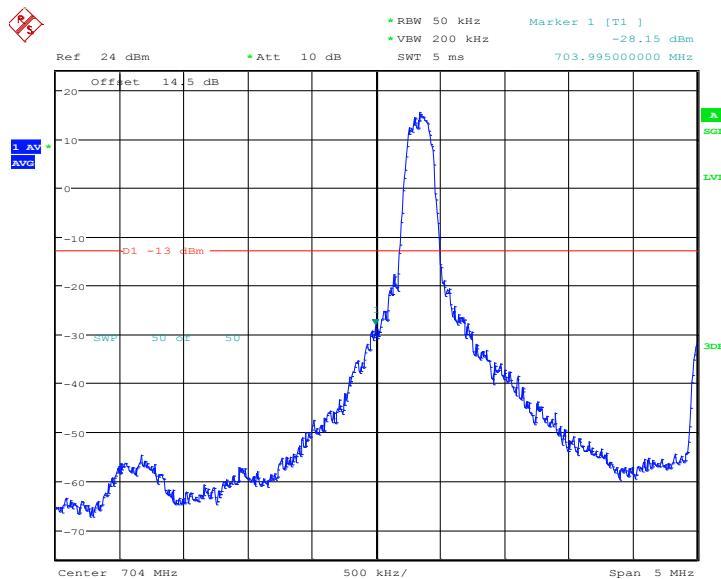
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LTE Band17, 5MHz bandwidth, QPSK,(25,0) Mode , Below 704MHz

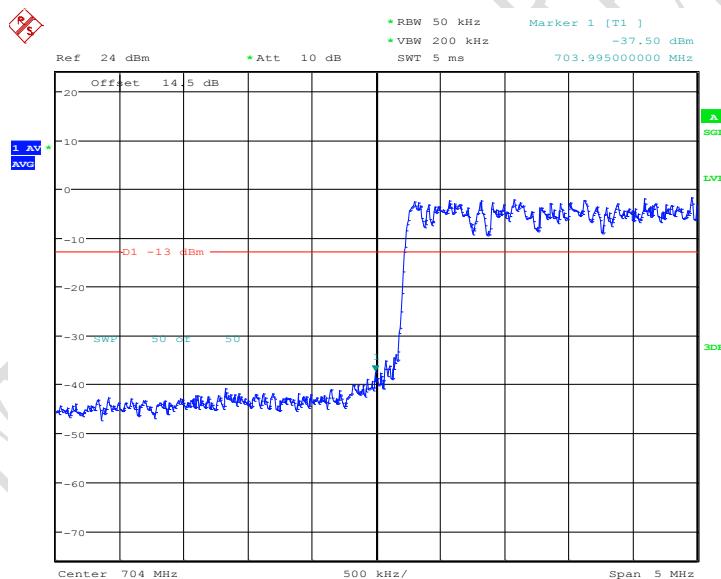
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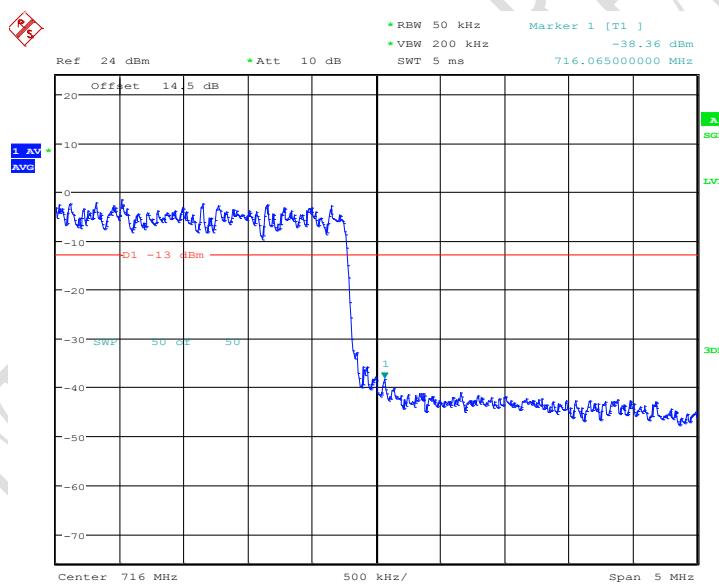
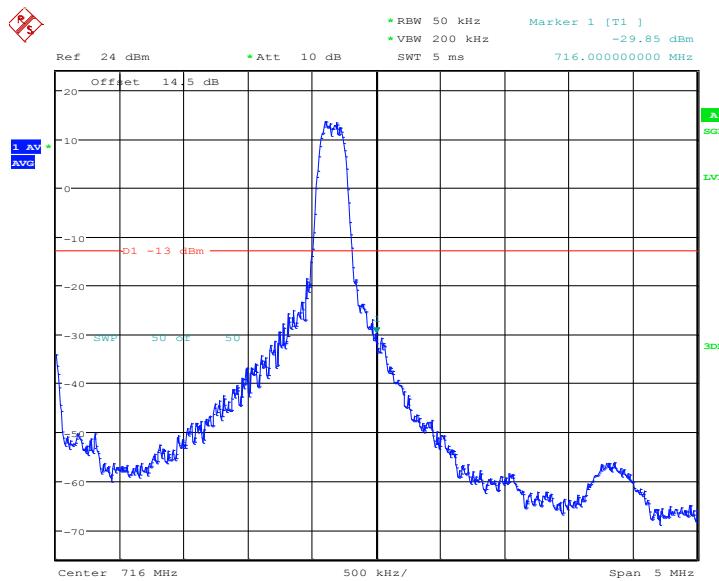


LTE Band17, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 704MHz

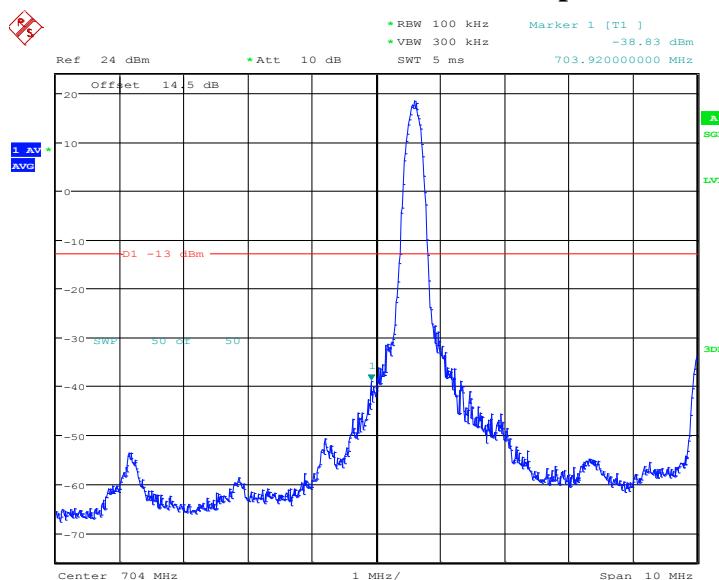


LTE Band17, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 704MHz

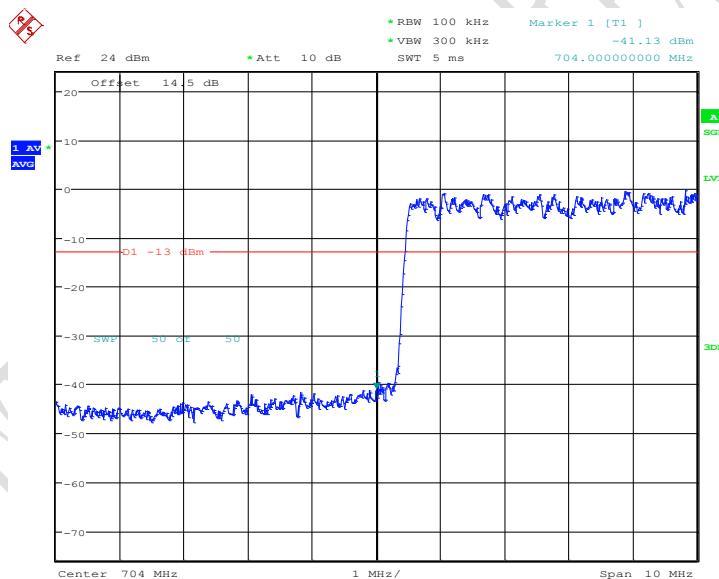
Report No.: B16X50266-WWAN-Rev3



Report No.: B16X50266-WWAN-Rev3

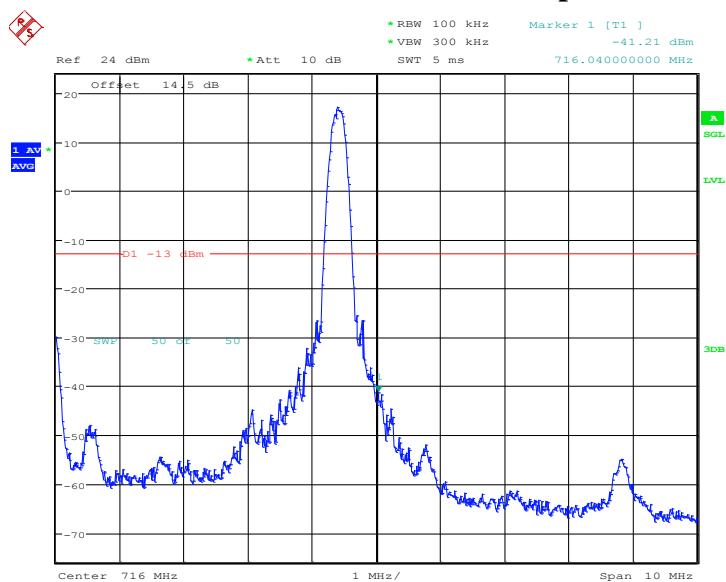


LTE Band17, 10MHz bandwidth, QPSK,(1,0) Mode , Below 704MHz



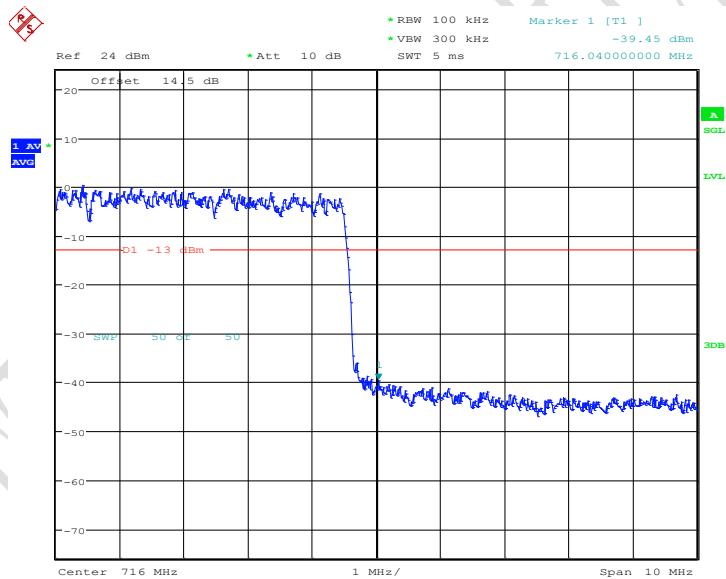
LTE Band17, 10MHz bandwidth, QPSK,(50,0) Mode , Below 704MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:13:49

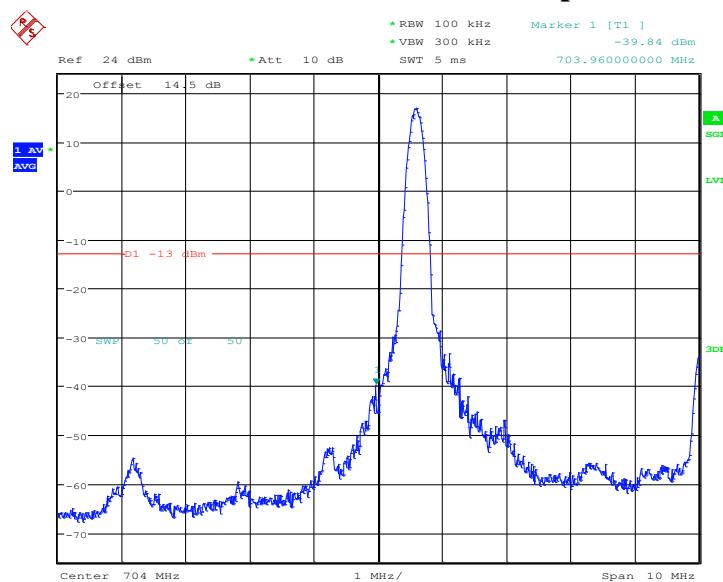
LTE Band17, 10MHz bandwidth, QPSK,(1,50) Mode, Above 716MHz



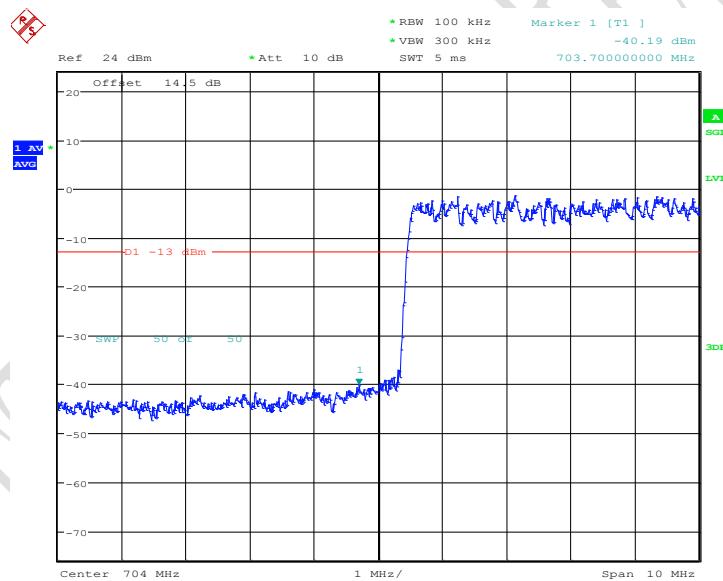
Date: 8.JUL.2016 14:14:44

LTE Band17, 10MHz bandwidth, QPSK,(50,0) Mode, Above 716MHz

Report No.: B16X50266-WWAN-Rev3

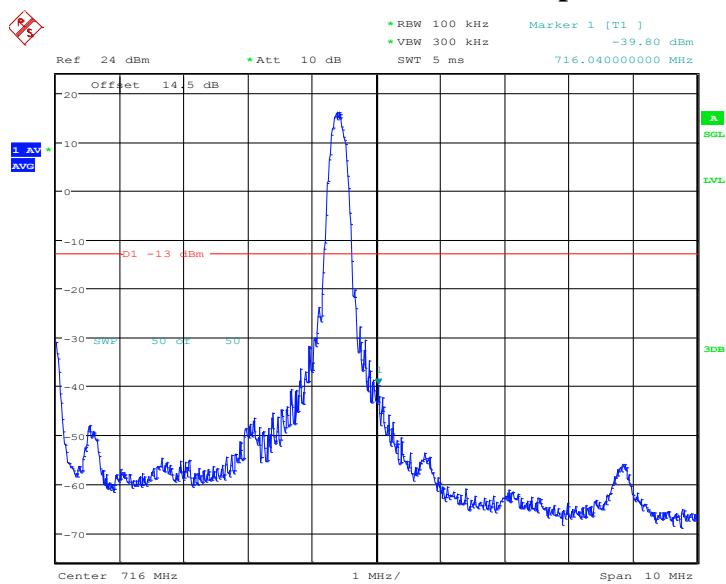


LTE Band17, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 704MHz



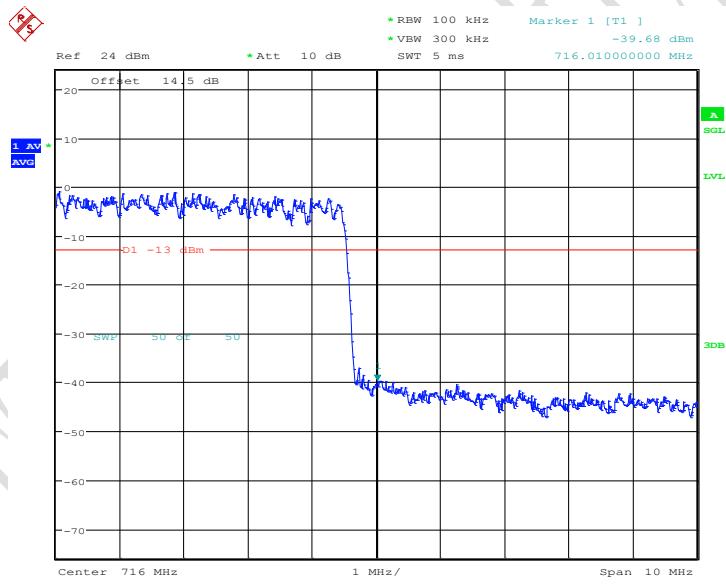
LTE Band17, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 704MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:14:07

LTE Band17, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 716MHz



Date: 8.JUL.2016 14:14:27

LTE Band17, 10MHz bandwidth, 16QAM,(50,0) Mode, Above 716MHz

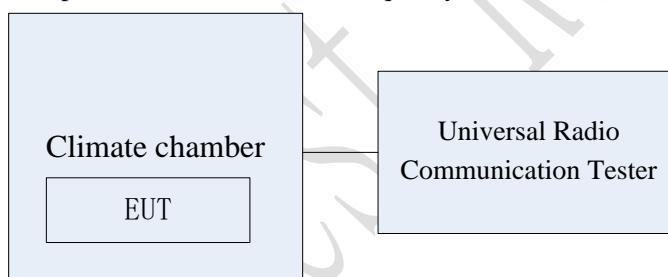
5.6 Frequency Stability over Temperature Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	S3/9: 358067070000937
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30% -60% Air pressure: 86-106kPa
Test Results:	--

Limit	
Frequency deviation [ppm]	±2.5

Test Setup

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



Test Method

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

Report No.: B16X50266-WWAN-Rev3

5.6.1 GSM Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
GSM850	Hz	-23.15	-22.92	25.13	18.95	-20.17	-24.44	-17.95	19.13	21.45
	ppm	-0.028	-0.027	0.030	0.023	-0.024	-0.029	-0.021	0.023	0.026
GSM850 8PSK	Hz	10.51	12.15	-7.32	9.53	-10.78	15.76	8.20	7.36	11.53
	ppm	0.013	0.015	-0.009	0.011	-0.013	0.019	0.010	0.009	0.014
PCS1900	Hz	-11.98	15.27	-13.69	-12.53	-13.24	-14.82	-11.14	9.91	12.24
	ppm	-0.006	0.008	-0.007	-0.007	-0.007	-0.008	-0.006	0.005	0.007
PCS1900 8PSK	Hz	-20.31	-25.25	-21.86	-20.18	-23.63	-26.12	-21.24	-23.08	-25.31
	ppm	-0.011	-0.013	-0.012	-0.011	-0.013	-0.014	-0.011	-0.012	-0.013

5.6.2 WCDMA Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
2	Hz	-14.31	-12.25	10.59	9.15	8.73	11.60	-12.78	13.27	-14.12
	ppm	-0.008	-0.007	0.006	0.005	0.005	0.006	-0.007	0.007	-0.008
5	Hz	-9.63	10.47	5.31	-8.56	-7.59	2.83	4.56	-6.53	8.20
	ppm	-0.012	0.013	0.006	-0.010	-0.009	0.003	0.005	-0.008	0.010

5.6.3 LTE Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
2	Hz	-13.45	-10.47	-12.17	9.43	-8.59	-10.21	-11.39	-12.94	-14.53
	ppm	-0.007	-0.006	-0.006	0.005	-0.005	-0.005	-0.006	-0.007	-0.008
4	Hz	-10.32	-14.56	11.32	-10.79	-7.71	-6.32	-7.68	-7.15	-11.27
	ppm	-0.006	-0.008	0.007	-0.006	-0.004	-0.004	-0.004	-0.004	-0.007
7	Hz	8.56	-10.92	-12.65	-11.37	-9.25	-10.78	-12.00	-14.23	13.24
	ppm	0.003	-0.004	-0.005	-0.004	-0.004	-0.004	-0.005	-0.006	0.005
17	Hz	-9.07	-4.25	6.53	7.45	-6.44	-9.76	1.53	5.42	-6.79
	ppm	-0.013	-0.006	0.009	0.010	-0.009	-0.014	0.002	0.008	-0.010

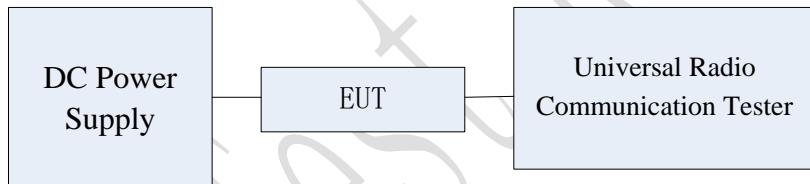
5.7 Frequency Stability over Voltage Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	S8/9: 358067070000903
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30% -60% Air pressure: 86-106kPa
Test Results:	--

Limit	
Frequency deviation [ppm]	±2.5

Test Setup

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



Test Method

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

5.7.1 GSM Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.5	3.8	4.2
GSM850	Hz	21.37	22.75	-18.72
	ppm	0.026	0.027	-0.022
GSM850 8PSK	Hz	16.75	-13.43	14.67
	ppm	0.020	-0.016	0.018
PCS1900	Hz	-15.37	-17.52	-10.61
	ppm	-0.008	-0.009	-0.006
PCS1900 8PSK	Hz	-19.56	-21.79	-23.65
	ppm	-0.010	-0.012	-0.013

5.7.2 WCDMA Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.5	3.8	4.2
2	Hz	8.73	7.65	-10.19
	ppm	0.005	0.004	-0.005
5	Hz	-10.65	-8.76	-7.65
	ppm	-0.013	-0.010	-0.009

5.7.3 LTE Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.5	3.8	4.2
2	Hz	-11.45	-13.47	-12.62
	Ppm	-0.006	-0.007	-0.007
4	Hz	-8.89	-9.27	-10.43
	ppm	-0.005	-0.005	-0.006
7	Hz	-10.39	-14.25	12.62
	ppm	-0.004	-0.006	0.005
17	Hz	-2.95	4.74	3.26
	ppm	-0.004	0.007	0.005

5.8 Peak to Average Ratio

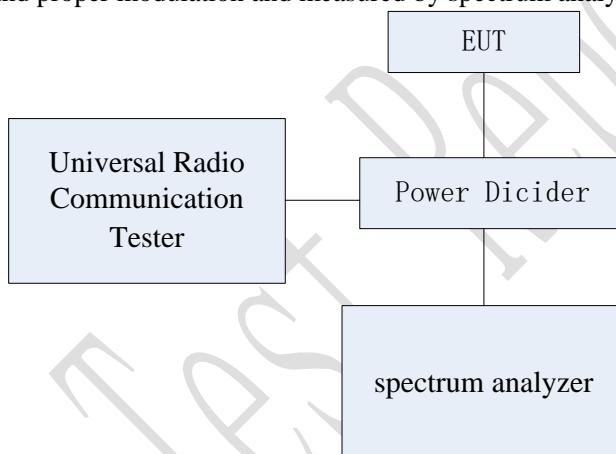
Specifications:	FCC Part 24.232, 27.50
DUT Serial Number:	S3/9: 358067070000937
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30% -60% Air pressure: 86-106kPa
Test Results:	--

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.

5.8.1 GSM850 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
836.6	190	GMSK	3.82
		QPSK	3.82

5.8.2 GSM1900 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1880	661	GMSK	3.85
		QPSK	3.88

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5.8.3 WCDMA B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1880.0	9400	QPSK	1.62
		16QAM	1.52

5.8.4 WCDMA B5 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
836.4	4182	QPSK	3.10
		16QAM	3.00

5.8.5 LTE B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1880MHz	18900	10MHz	QPSK	2.98
			16QAM	3.76

5.8.6 LTE B4 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1732.5MHz	20175	10MHz	QPSK	4.27
			16QAM	4.62

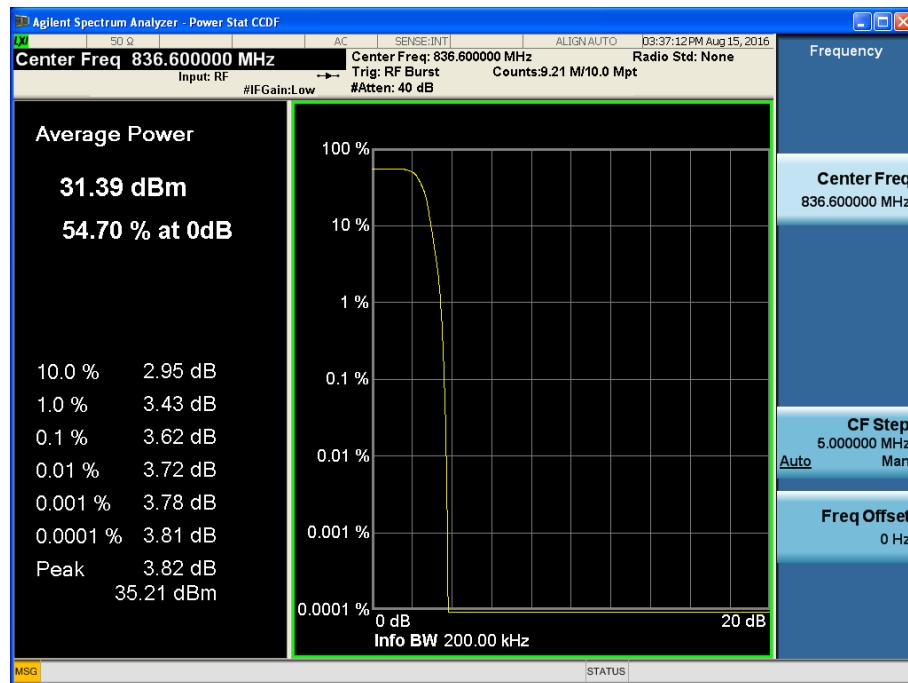
5.8.7 LTE B7 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
2535MHz	21100	10MHz	QPSK	5.66
			16QAM	6.49

5.8.8 LTE B17 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
710MHz	23790	10MHz	QPSK	4.63
			16QAM	5.65

Graphical for Peak to Average Ratio Results

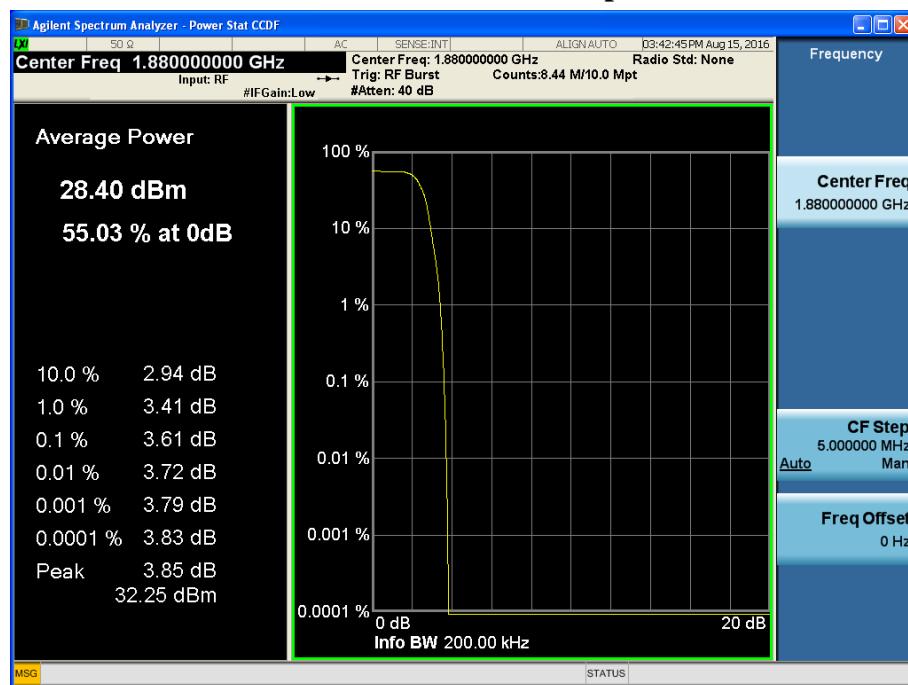


GSM850, GMSK



GSM850, QPSK

Report No.: B16X50266-WWAN-Rev3

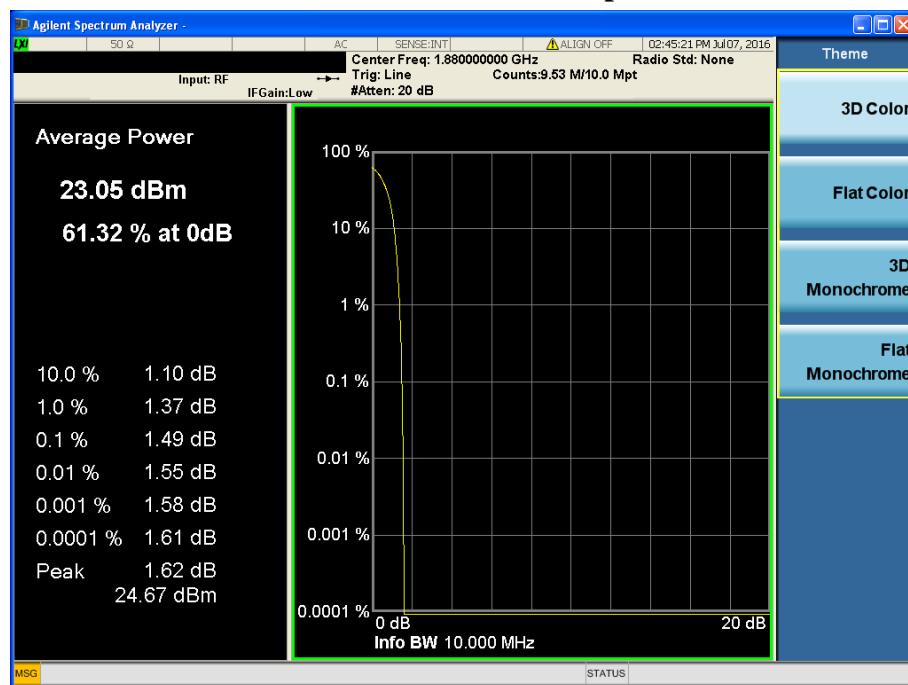


GSM1900, GMSK

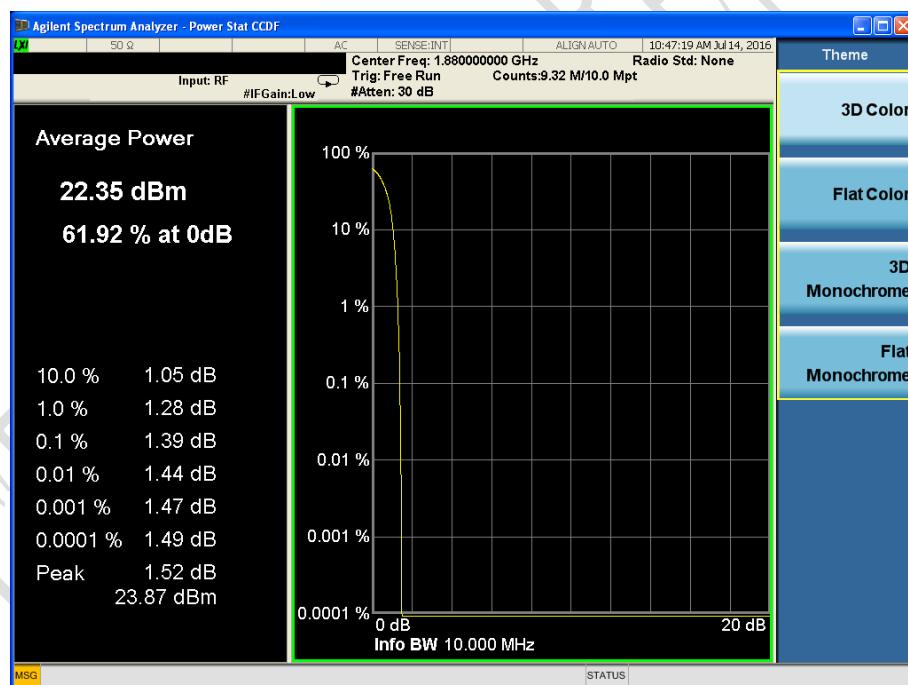


GSM1900, QPSK

Report No.: B16X50266-WWAN-Rev3

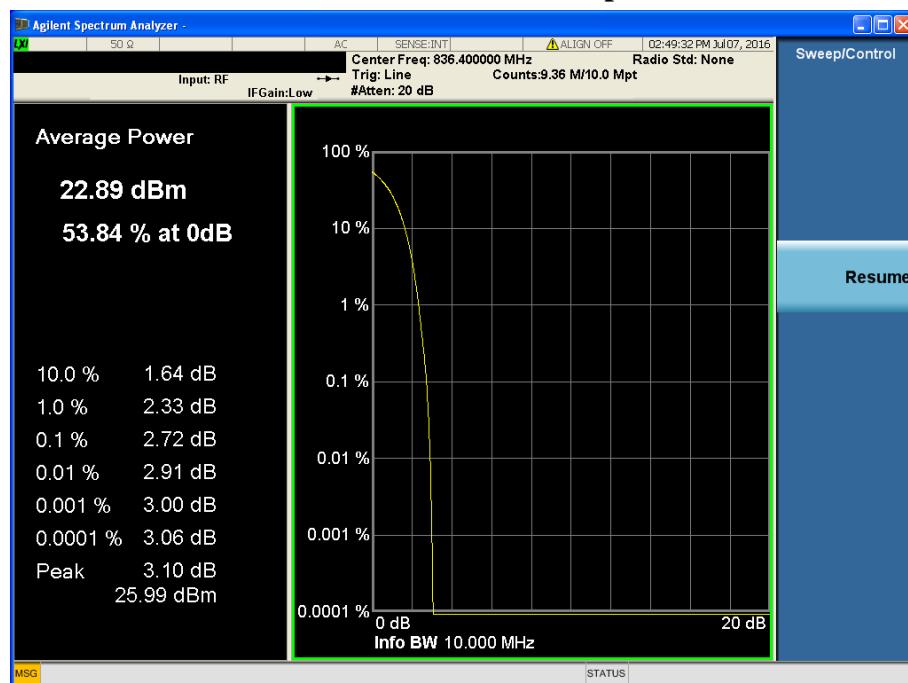


WCDMA Band2, QPSK

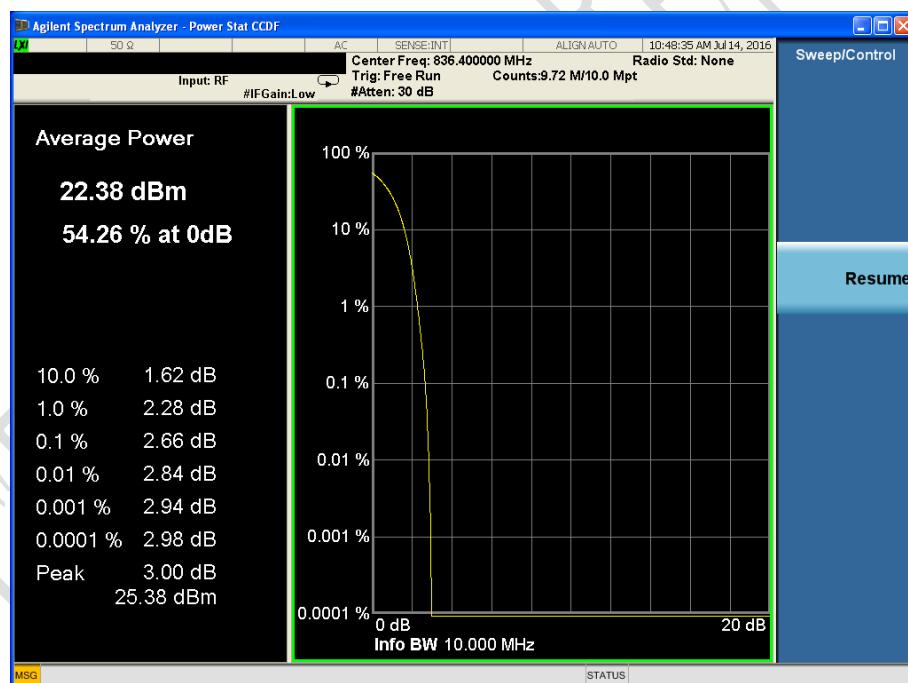


WCDMA Band2, 16QAM

Report No.: B16X50266-WWAN-Rev3

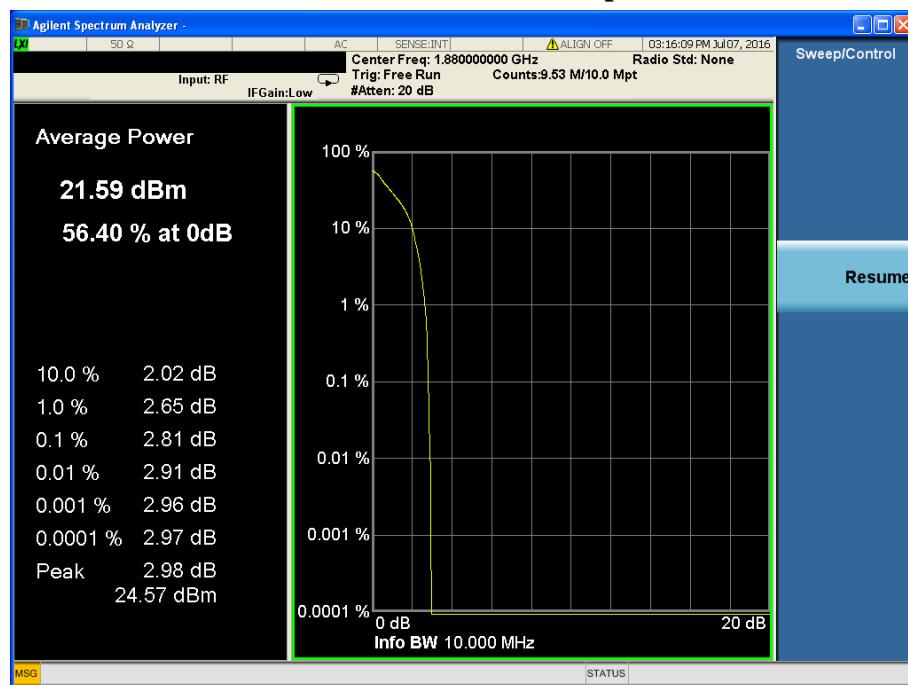


WCDMA Band5, QPSK



WCDMA Band5, 16QAM

Report No.: B16X50266-WWAN-Rev3



LTE Band2, QPSK

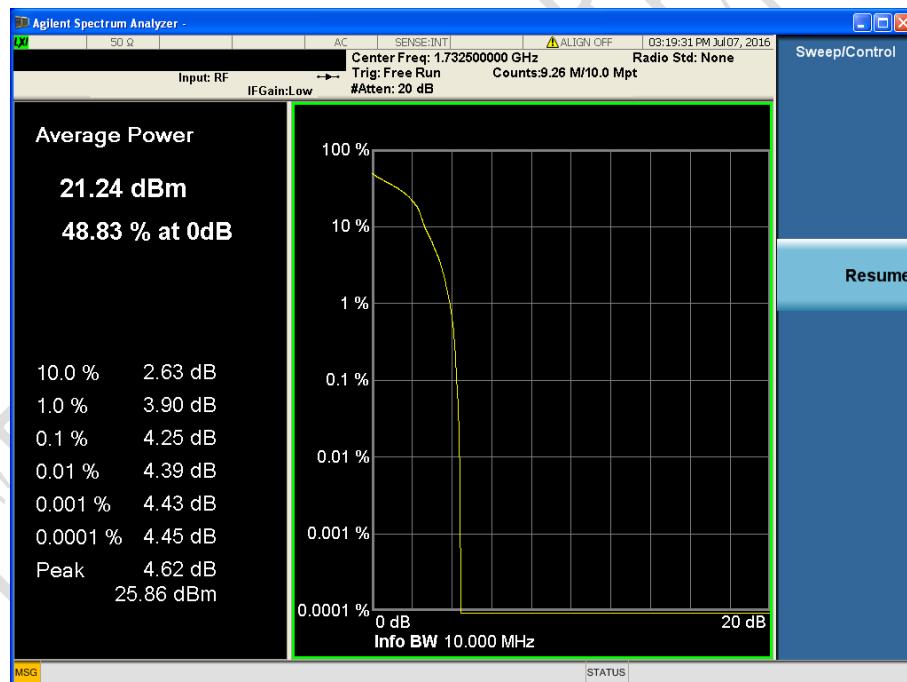


LTE Band2, 16QAM

Report No.: B16X50266-WWAN-Rev3

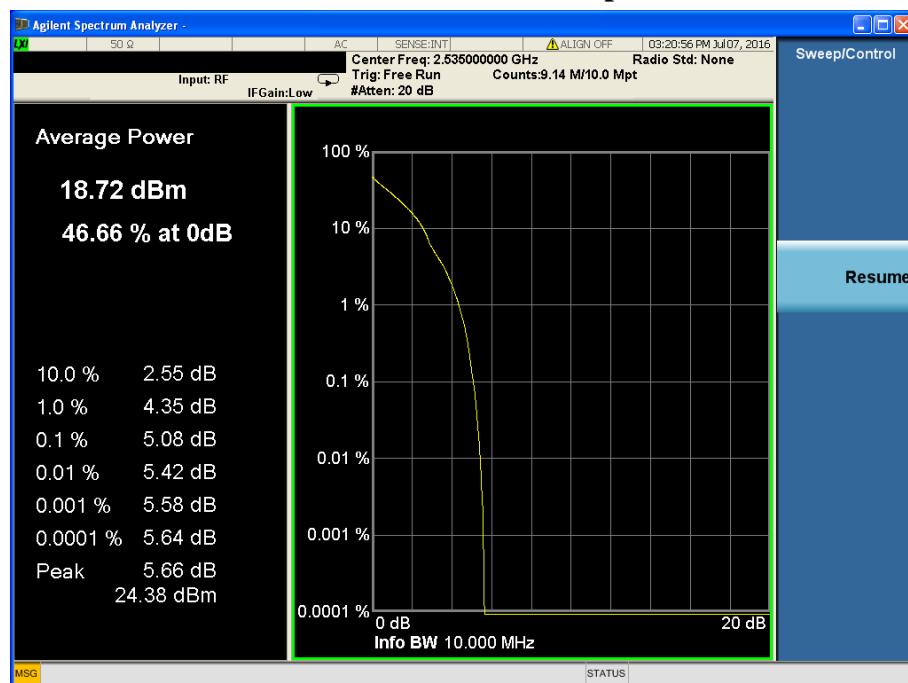


LTE Band4, QPSK



LTE Band4, 16QAM

Report No.: B16X50266-WWAN-Rev3

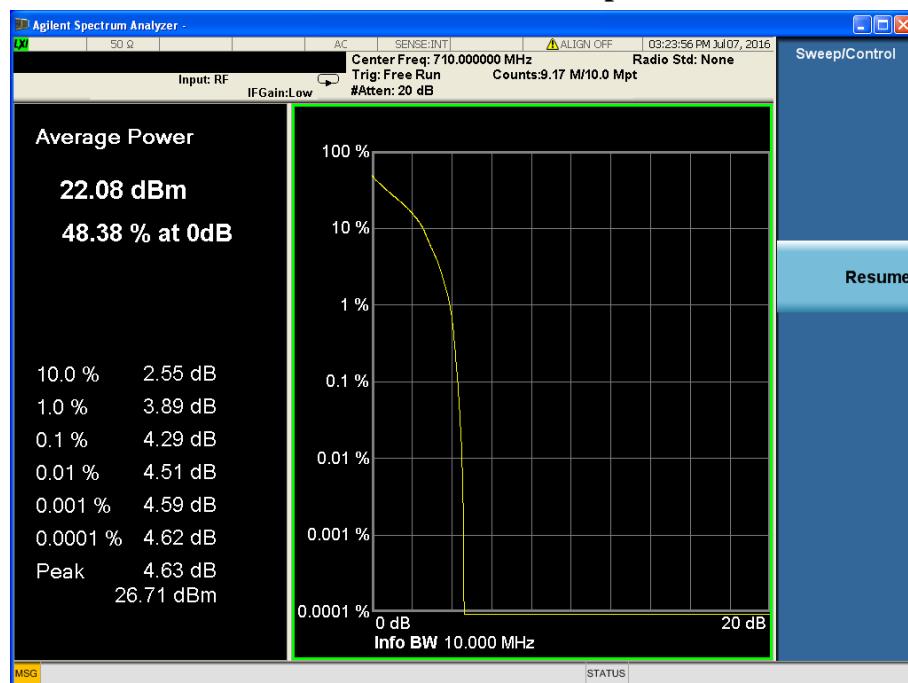


LTE Band7, QPSK

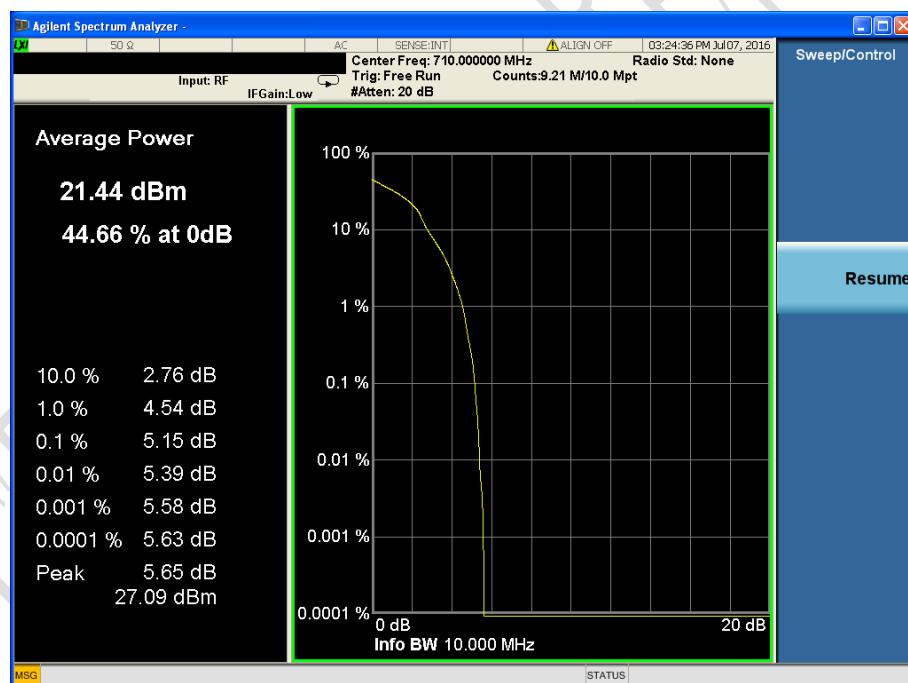


LTE Band7, 16QAM

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LTE Band17, QPSK



LTE Band17, 16QAM

5.9 ERP and EIRP

Specifications:	FCC Part 22.913(a), 24.232(b)
DUT Serial Number:	S9/9: 358067070001059
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30% -60% Air pressure: 86-106kPa
Test Results:	--

Limit

Part 22:

According to Part 22.913(a)(2):The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Part 24:

According to Part 24.232(b)):The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

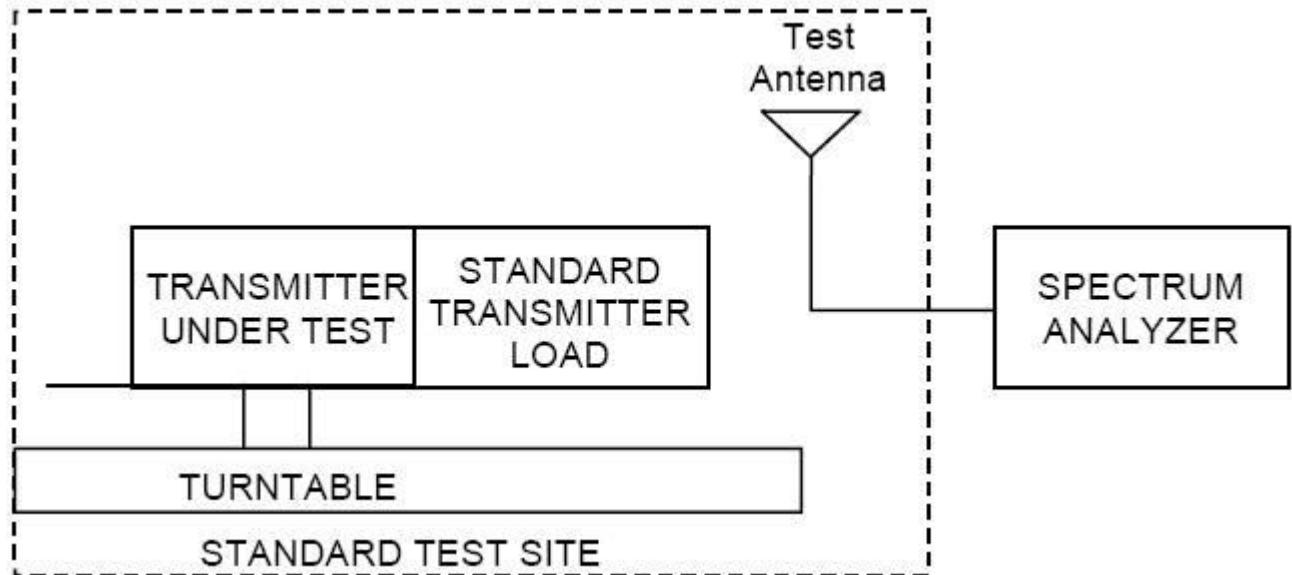
Test Setup

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

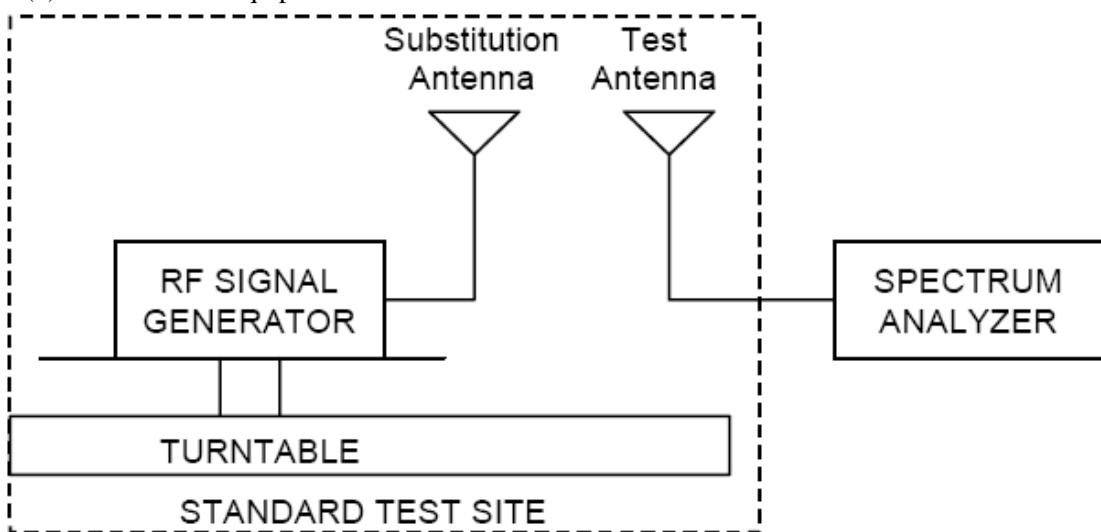
Test Method:

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

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above.



(b) Reconnect the equipment as illustrated.



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

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

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

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

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

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

5.9.1 GSM850 GSM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]
824.2	37.27	3.4	-2.87	31.00
836.6	37.84	3.4	-3.11	31.33
848.8	37.34	3.4	-3.11	30.83

5.9.2 GSM850 GPRS Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]
824.2	37.28	3.4	-2.87	31.01
836.6	37.90	3.4	-3.11	31.39
848.8	37.73	3.4	-3.11	31.22

5.9.3 GSM850 EGPRS GMSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]
824.2	37.35	3.4	-2.87	31.08
836.6	37.76	3.4	-3.11	31.25
848.8	37.34	3.4	-3.11	30.83

5.9.4 GSM850 EGPRS 8PSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]
824.2	36.99	3.4	-2.87	30.72
836.6	37.53	3.4	-3.11	31.02
848.8	37.14	3.4	-3.11	30.63

5.9.5 PCS1900 GSM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.2	22.86	5.0	10.4	28.26
1880.0	22.49	5.0	10.4	27.89
1909.8	22.62	5.1	10.4	27.92

5.9.6 PCS1900 GPRS Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.2	21.29	5.0	10.4	26.69
1880.0	22.43	5.0	10.4	27.83
1909.8	23.25	5.1	10.4	28.55

5.9.7 PCS1900 EGPRS GMSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.2	21.11	5.0	10.4	26.51
1880.0	21.02	5.0	10.4	26.42
1909.8	23.76	5.1	10.4	29.06

5.9.8 PCS1900 EGPRS 8PSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.2	22.92	5.0	10.4	28.32
1880.0	22.69	5.0	10.4	28.09
1909.8	23.16	5.1	10.4	28.46

5.9.9 WCDMA Band 2 RMC Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1852.5	17.08	5.0	10.4	22.48
1880.0	19.12	5.0	10.4	24.52
1907.6	17.84	5.1	10.4	23.14

5.9.10 WCDMA Band 2 HSDPA Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1852.5	16.05	5.0	10.4	21.45
1880.0	18.51	5.0	10.4	23.91
1907.6	18.65	5.1	10.4	23.95

5.9.11 WCDMA Band 2 HSUPA QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1852.5	16.55	5.0	10.4	21.95
1880.0	18.65	5.0	10.4	24.05
1907.6	18.5	5.1	10.4	23.80

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5.9.12 WCDMA Band 2 HSUPA 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1852.5	16.75	5.0	10.4	22.15
1880.0	18.58	5.0	10.4	23.98
1907.6	18.73	5.1	10.4	24.03

5.9.13 WCDMA Band 5 RMC Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]
826.4	30.45	3.4	-2.87	24.18
836.4	30.56	3.4	-3.11	24.05
846.4	30.12	3.4	-3.11	23.61

5.9.14 WCDMA Band 5 HSDPA Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]
824.2	28.79	3.4	-2.87	22.52
836.4	29.71	3.4	-3.11	23.20
848.8	28.93	3.4	-3.11	22.42

5.9.15 WCDMA Band 5 HSUPA QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]
824.2	28.79	3.4	-2.87	22.52
836.4	29.71	3.4	-3.11	23.20
848.8	28.93	3.4	-3.11	22.42

5.9.16 WCDMA Band 5 HSUPA 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]
824.2	28.75	3.4	-2.87	22.48
836.4	29.46	3.4	-3.11	22.95
848.8	29.05	3.4	-3.11	22.54

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5.9.17 LTE Band 2 Bandwidth 1.4M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	13.24	5.0	10.4	18.64
1880.0	12.59	5.0	10.4	17.99
1910.0	13.11	5.1	10.4	18.41

5.9.18 LTE Band 2 Bandwidth 3M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	13.58	5.0	10.4	18.98
1880.0	13.32	5.0	10.4	18.72
1910.0	13.28	5.1	10.4	18.58

5.9.19 LTE Band 2 Bandwidth 5M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	13.11	5.0	10.4	18.51
1880.0	12.91	5.0	10.4	18.31
1910.0	12.7	5.1	10.4	18.00

5.9.20 LTE Band 2 Bandwidth 10M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	13.48	5.0	10.4	18.88
1880.0	12.99	5.0	10.4	18.39
1910.0	14.22	5.1	10.4	19.52

5.9.21 LTE Band 2 Bandwidth 15M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	12.3	5.0	10.4	17.70
1880.0	13.14	5.0	10.4	18.54
1910.0	12.94	5.1	10.4	18.24

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5.9.22 LTE Band 2 Bandwidth 20M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	11.96	5.0	10.4	17.36
1880.0	13.2	5.0	10.4	18.60
1910.0	13.27	5.1	10.4	18.57

5.9.23 LTE Band 2 Bandwidth 1.4M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	12.25	5.0	10.4	17.65
1880.0	12.14	5.0	10.4	17.54
1910.0	12.72	5.1	10.4	18.02

5.9.24 LTE Band 2 Bandwidth 3M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	12.73	5.0	10.4	18.13
1880.0	12.83	5.0	10.4	18.23
1910.0	12.81	5.1	10.4	18.11

5.9.25 LTE Band 2 Bandwidth 5M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	12.83	5.0	10.4	18.23
1880.0	12.55	5.0	10.4	17.95
1910.0	12.93	5.1	10.4	18.23

5.9.26 LTE Band 2 Bandwidth 10M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	12.71	5.0	10.4	18.11
1880.0	13.25	5.0	10.4	18.65
1910.0	13.12	5.1	10.4	18.42

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5.9.27 LTE Band 2 Bandwidth 15M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	12.55	5.0	10.4	17.95
1880.0	12.82	5.0	10.4	18.22
1910.0	12.96	5.1	10.4	18.26

5.9.28 LTE Band 2 Bandwidth 20M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1850.0	12.82	5.0	10.4	18.22
1880.0	13.09	5.0	10.4	18.49
1910.0	12.52	5.1	10.4	17.82

5.9.29 LTE Band 4 Bandwidth 1.4M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.42	4.8	10.4	19.05
1732.5	14.33	4.9	10.4	19.68
1755.0	13.15	4.9	10.4	19.86

5.9.30 LTE Band 4 Bandwidth 3M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.42	4.8	10.4	19.02
1732.5	14.33	4.9	10.4	19.83
1755.0	13.15	4.9	10.4	18.65

5.9.31 LTE Band 4 Bandwidth 5M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.31	4.8	10.4	18.91
1732.5	14.02	4.9	10.4	19.52
1755.0	13.86	4.9	10.4	19.36

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5.9.32 LTE Band 4 Bandwidth 10M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	14.38	4.8	10.4	19.98
1732.5	13.65	4.9	10.4	19.15
1755.0	14.13	4.9	10.4	19.63

5.9.33 LTE Band 4 Bandwidth 15M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.9	4.8	10.4	19.50
1732.5	13.62	4.9	10.4	19.12
1755.0	13.88	4.9	10.4	19.38

5.9.34 LTE Band 4 Bandwidth 20M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.79	4.8	10.4	19.39
1732.5	13.87	4.9	10.4	19.37
1755.0	13.98	4.9	10.4	19.48

5.9.35 LTE Band 4 Bandwidth 1.4M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.65	4.8	10.4	19.25
1732.5	13.98	4.9	10.4	19.48
1755.0	13.45	4.9	10.4	18.95

5.9.36 LTE Band 4 Bandwidth 3M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.28	4.8	10.4	18.88
1732.5	12.79	4.9	10.4	18.29
1755.0	12.8	4.9	10.4	18.30

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5.9.37 LTE Band 4 Bandwidth 5M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.67	4.8	10.4	19.27
1732.5	13.27	4.9	10.4	18.77
1755.0	13.37	4.9	10.4	18.87

5.9.38 LTE Band 4 Bandwidth 10M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	12.59	4.8	10.4	18.19
1732.5	14.09	4.9	10.4	19.59
1755.0	14.06	4.9	10.4	19.56

5.9.39 LTE Band 4 Bandwidth 15M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	14.08	4.8	10.4	19.68
1732.5	12.89	4.9	10.4	18.39
1755.0	14.32	4.9	10.4	19.82

5.9.40 LTE Band 4 Bandwidth 20M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
1710.0	13.93	4.8	10.4	19.53
1732.5	13.58	4.9	10.4	19.08
1755.0	13.27	4.9	10.4	18.77

5.9.41 LTE Band 7 Bandwidth 1.4M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.61	5.9	10.6	18.31
2535.0	13.55	5.9	10.6	18.25
2570.0	13.68	5.9	10.6	18.38

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5.9.42 LTE Band 7 Bandwidth 3M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.42	5.9	10.6	18.12
2535.0	13.71	5.9	10.6	18.41
2570.0	13.52	5.9	10.6	18.22

5.9.43 LTE Band 7 Bandwidth 5M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.31	5.9	10.6	18.01
2535.0	13.43	5.9	10.6	18.13
2570.0	13.5	5.9	10.6	18.20

5.9.44 LTE Band 7 Bandwidth 10M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.18	5.9	10.6	17.88
2535.0	13.21	5.9	10.6	17.91
2570.0	13.31	5.9	10.6	18.01

5.9.45 LTE Band 7 Bandwidth 15M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.22	5.9	10.6	17.92
2535.0	13.13	5.9	10.6	17.83
2570.0	13.29	5.9	10.6	17.99

5.9.46 LTE Band 7 Bandwidth 20M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.17	5.9	10.6	17.87
2535.0	13.21	5.9	10.6	17.91
2570.0	13.22	5.9	10.6	17.92

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5.9.47 LTE Band 7 Bandwidth 1.4M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	14.26	5.9	10.6	18.96
2535.0	13.64	5.9	10.6	18.34
2570.0	13.68	5.9	10.6	18.38

5.9.48 LTE Band 7 Bandwidth 3M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.37	5.9	10.6	18.07
2535.0	14.25	5.9	10.6	18.95
2570.0	13.3	5.9	10.6	18.00

5.9.49 LTE Band 7 Bandwidth 5M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.79	5.9	10.6	18.49
2535.0	13.53	5.9	10.6	18.23
2570.0	13.2	5.9	10.6	17.90

5.9.50 LTE Band 7 Bandwidth 10M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.77	5.9	10.6	18.47
2535.0	13.21	5.9	10.6	17.91
2570.0	13.65	5.9	10.6	18.35

5.9.51 LTE Band 7 Bandwidth 15M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.24	5.9	10.6	17.94
2535.0	13.06	5.9	10.6	17.76
2570.0	13.41	5.9	10.6	18.11

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5.9.52 LTE Band 7 Bandwidth 20M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
2500.0	13.44	5.9	10.6	18.14
2535.0	12.69	5.9	10.6	17.39
2570.0	13.1	5.9	10.6	17.80

5.9.53 LTE Band 17 Bandwidth 1.4M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
704.0	24.46	3.1	-3.26	18.10
710.0	24.87	3.1	-3.26	18.51
716.0	25.37	3.1	-3.26	19.01

5.9.54 LTE Band 17 Bandwidth 3M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
704.0	24.31	3.1	-3.26	17.95
710.0	23.72	3.1	-3.26	17.36
716.0	25	3.1	-3.26	18.64

5.9.55 LTE Band 17 Bandwidth 5M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
704.0	23.86	3.1	-3.26	17.50
710.0	24.06	3.1	-3.26	17.70
716.0	23.8	3.1	-3.26	17.44

5.9.56 LTE Band 17 Bandwidth 10M QPSK Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
704.0	23.09	3.1	-3.26	16.73
710.0	22.95	3.1	-3.26	16.59
716.0	22.51	3.1	-3.26	16.15

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5.9.57 LTE Band 17 Bandwidth 1.4M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
704.0	26.33	3.1	-3.26	19.97
710.0	26.3	3.1	-3.26	19.94
716.0	26.07	3.1	-3.26	19.71

5.9.58 LTE Band 17 Bandwidth 3M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
704.0	24.89	3.1	-3.26	18.53
710.0	25.41	3.1	-3.26	19.05
716.0	25.18	3.1	-3.26	18.82

5.9.59 LTE Band 17 Bandwidth 5M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
704.0	24.96	3.1	-3.26	18.60
710.0	24.34	3.1	-3.26	17.98
716.0	24.81	3.1	-3.26	18.45

5.9.60 LTE Band 17 Bandwidth 10M 16QAM Results

Frequency [MHz]	S.G output [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P _d) [dBm]
704.0	24.62	3.1	-3.26	18.26
710.0	24.43	3.1	-3.26	18.07
716.0	24.75	3.1	-3.26	18.39

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Annex A EUT Photos

See the document "Ilium Pad L8X-External Photos".

See the document "Ilium Pad L8X-Internal Photos".

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

End Of Report

CTT Test Report