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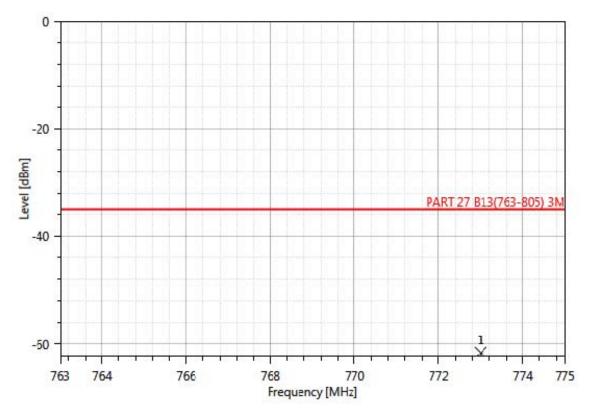
# Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(763MHz-775MHz)

Operation Mode: **LTE B13** 01/11/2017 Test Date:

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX LOW Test Engineer: Mike

EUT Pol.: **VERTICAL** E2 Plane Measurement Antenna Pol.:



	Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
			Mode	Level	Level	Gain	Loss	@3m	
_	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
	773.00	S	Peak	-61.69	-62.02	3.26	-2.93	-35.00	-26.69

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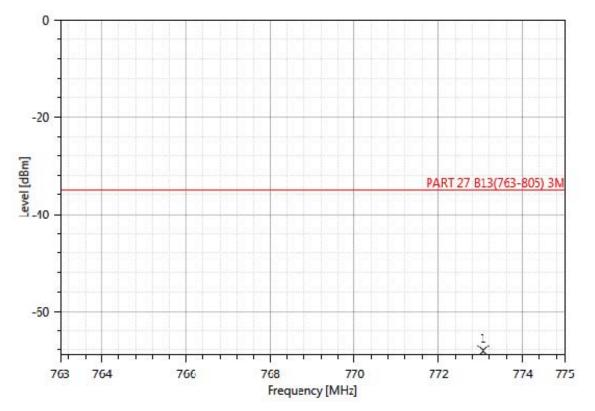
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Operation Mode: LTE B13 Test Date: 01/11/2017

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 23 deg\_C / 52 RH

TX LOW Operation Band: Test Engineer: Mike

**HORIZONTAL** EUT Pol.: E2 Plane Measurement Antenna Pol.:



	Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
			Mode	Level	Level	Gain	Loss	@3m	
_	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
	773.06	S	Peak	-68.17	-68.49	3.26	-2.93	-35.00	-33.17

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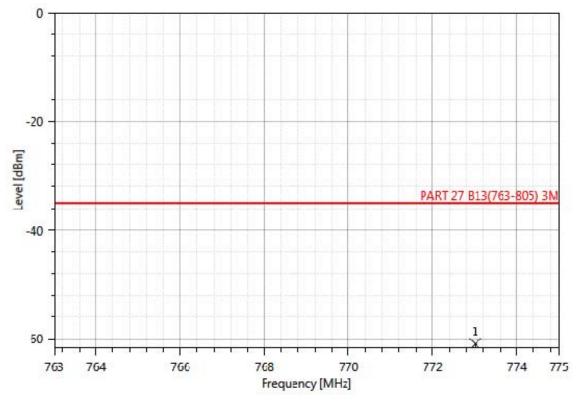
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Operation Mode: Test Date: 01/11/2017 LTE B13

Fundamental Frequency: 782 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX MID Test Engineer: Mike

EUT Pol.: E2 Plane **VERTICAL** Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	<b>@</b> 3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.01	S	Peak	-60.96	-61.28	3.26	-2.93	-35.00	-25.96

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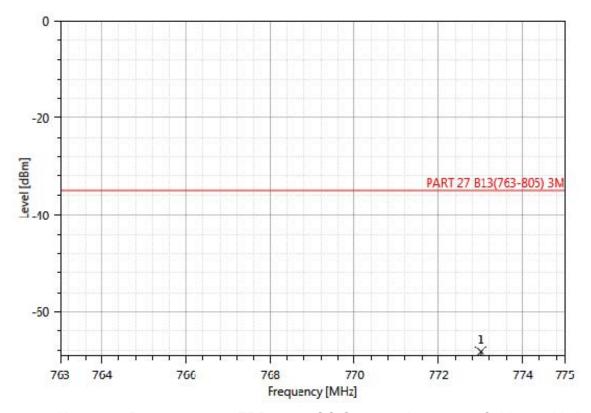
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Operation Mode: LTE B13 Test Date: 01/11/2017

Fundamental Frequency: 782 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX MID Test Engineer: Mike

**HORIZONTAL** EUT Pol.: E2 Plane Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.00	S	Peak	-68.31	-68.63	3.26	-2.93	-35.00	-33.31

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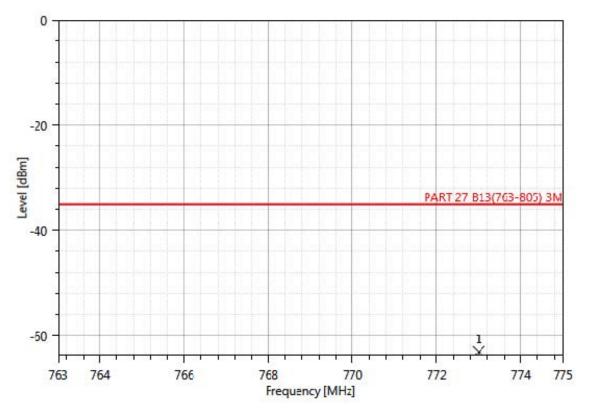
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Operation Mode: **LTE B13** Test Date: 01/11/2017

Fundamental Frequency: 784.5 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX HIGH Test Engineer: Mike

EUT Pol.: E2 Plane **VERTICAL** Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.00	S	Peak	-63.01	-63.34	3.26	-2.93	-35.00	-28.01

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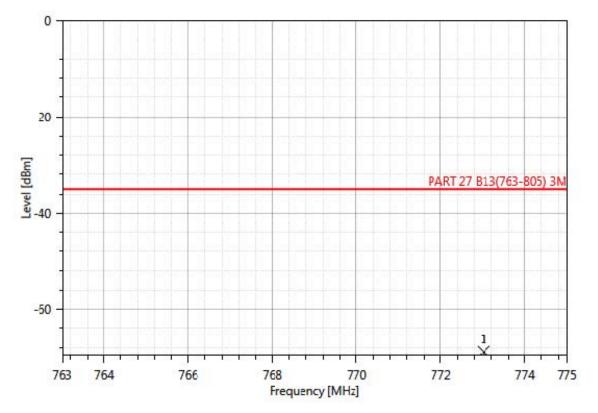
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Operation Mode: **LTE B13** Test Date: 01/11/2017

Fundamental Frequency: 784.5 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX HIGH Test Engineer: Mike

EUT Pol.: E2 Plane HORIZONTAL Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	<b>@</b> 3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.02	S	Peak	-68.81	-69.13	3.26	-2.93	-35.00	-33.81

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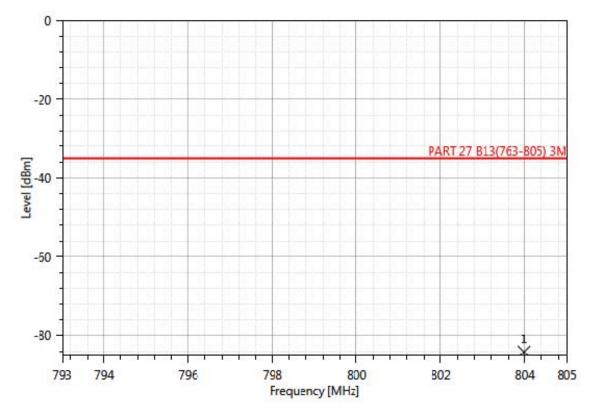
# Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(793MHz-805MHz)

Operation Mode: **LTE B13** 01/11/2017 Test Date:

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX LOW Test Engineer: Mike

EUT Pol.: **VERTICAL** E2 Plane Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
803.98	S	Peak	-84.13	-84.57	3.34	-2.90	-35.00	-49.13

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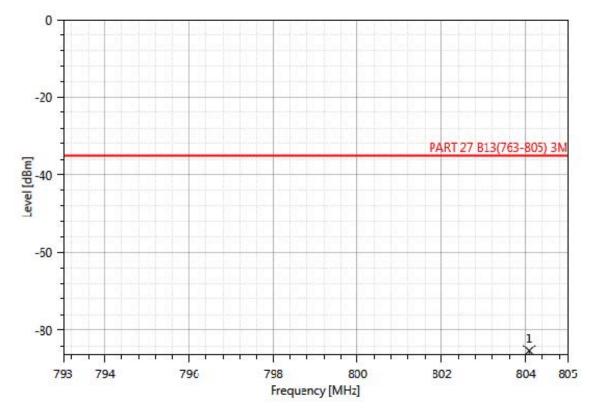
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Operation Mode: **LTE B13** Test Date: 01/11/2017

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 23 deg\_C / 52 RH

TX LOW Operation Band: Test Engineer: Mike

**HORIZONTAL** EUT Pol.: E2 Plane Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
804.08	S	Peak	-85.45	-85.89	3.34	-2.90	-35.00	-50.45

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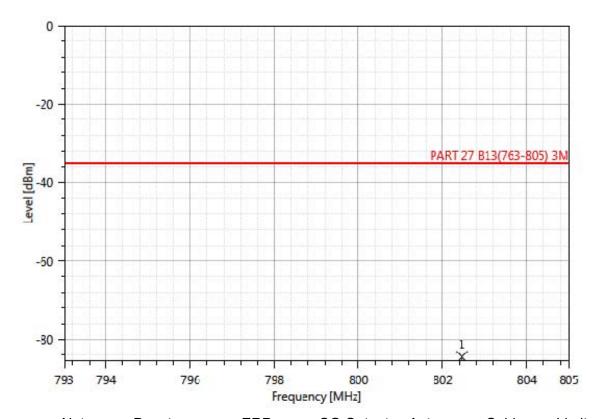
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Operation Mode: LTE B13 Test Date: 01/11/2017

Fundamental Frequency: 782 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX MID Test Engineer: Mike

EUT Pol.: E2 Plane Measurement Antenna Pol.: **VERTICAL** 



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin	
		Mode	Level	Level	Gain	Loss	@3m		
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	
802.46	S	Peak	-84.52	-84.96	3.34	-2.90	-35.00	-49.52	

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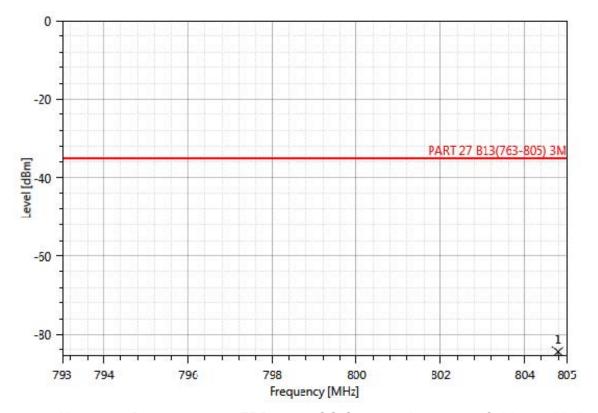
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Operation Mode: LTE B13 Test Date: 01/11/2017

Fundamental Frequency: 782 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX MID Test Engineer: Mike

**HORIZONTAL** EUT Pol.: E2 Plane Measurement Antenna Pol.:



	Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
			Mode	Level	Level	Gain	Loss	@3m	
_	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
	804.78	S	Peak	-84.45	-84.89	3.33	-2.89	-35.00	-49.45

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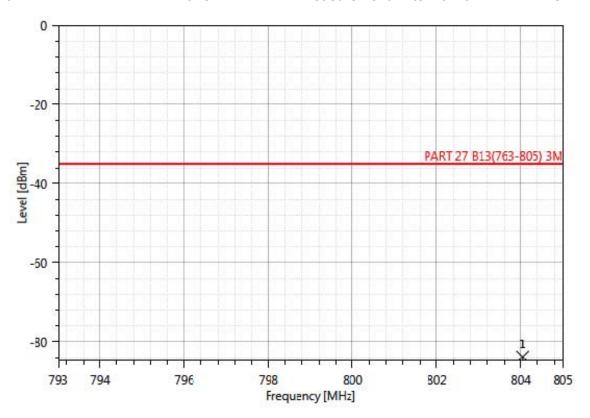
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Operation Mode: **LTE B13** Test Date: 01/11/2017

Fundamental Frequency: 784.5 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX HIGH Test Engineer: Mike

EUT Pol.: E2 Plane **VERTICAL** Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
804.04	S	Peak	-83.82	-84.26	3.34	-2.90	-35.00	-48.82

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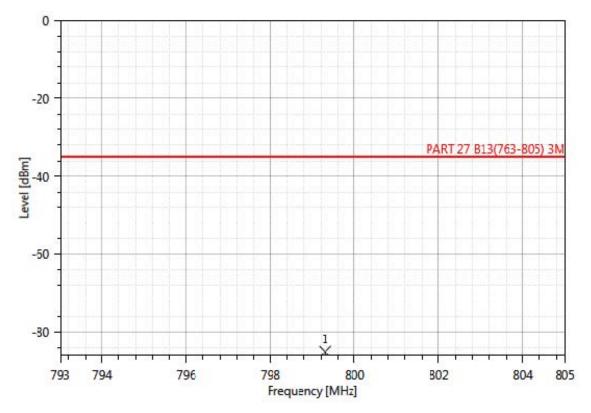
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Operation Mode: **LTE B13** Test Date: 01/11/2017

Fundamental Frequency: 784.5 MHz Temp. / Humi.: 23 deg\_C / 52 RH

Operation Band: TX HIGH Test Engineer: Mike

**HORIZONTAL** EUT Pol.: E2 Plane Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
799.30	S	Peak	-85.01	-85.45	3.34	-2.90	-35.00	-50.01

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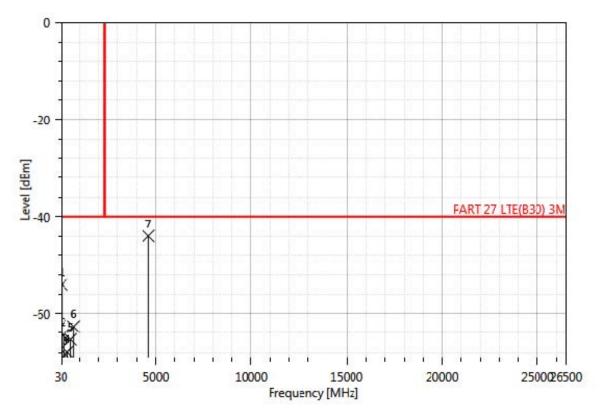
# Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 30 QPSK RB 1 0 (The Worst Case)

Operation Mode: LTE B30 Test Date: 05/13/2016 14:58:16

Fundamental Frequency: 2307.5 MHz Temp. / Humi. : 22 deg\_C / 61 RH

Operation Band: Test Engineer: Tx CH LOW Tin

EUT Pol.: E1 Plane Measurement Antenna Pol.: **VERTICAL** 



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
61.04	S	Peak	-54.02	-44.49	-8.44	-1.09	-40.00	-14.02
143.49	S	Peak	-64.38	-60.49	-2.48	-1.41	-40.00	-24.38
245.34	S	Peak	-68.28	-69.90	3.37	-1.75	-40.00	-28.28
366.59	S	Peak	-67.87	-69.54	3.85	-2.17	-40.00	-27.87
532.46	S	Peak	-65.33	-66.49	3.68	-2.52	-40.00	-25.33
689.60	S	Peak	-62.67	-62.97	3.09	-2.79	-40.00	-22.67
4615.00	Н	Peak	-44.00	-49.27	12.70	-7.43	-40.00	-4.00

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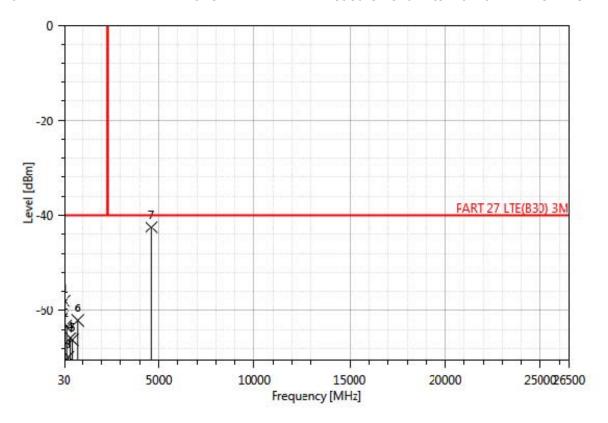
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Operation Mode: LTE B30 Test Date: 05/13/2016 14:58:29

Fundamental Frequency: 2307.5 MHz Temp. / Humi.: 22 deg\_C / 61 RH

Operation Band: Tx CH LOW Test Engineer: Tin

EUT Pol.: E1 Plane HORIZONTAL Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
61.04	S	Peak	-58.06	-48.53	-8.44	-1.09	-40.00	-18.06
139.61	S	Peak	-63.27	-59.18	-2.70	-1.39	-40.00	-23.27
255.04	S	Peak	-69.80	-71.59	3.56	-1.76	-40.00	-29.80
374.35	S	Peak	-65.91	-67.52	3.84	-2.23	-40.00	-25.91
479.11	S	Peak	-66.27	-67.80	3.77	-2.24	-40.00	-26.27
752.65	S	Peak	-62.14	-62.27	3.19	-3.06	-40.00	-22.14
4615.00	Н	Peak	-42.51	-47.78	12.70	-7.43	-40.00	-2.51

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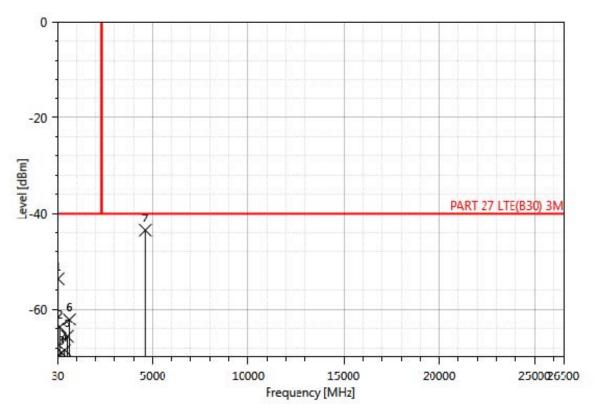
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Operation Mode: LTE B30 Test Date: 05/13/2016 14:58:41

Fundamental Frequency: 2310 MHz Temp. / Humi.: 22 deg\_C / 61 RH

Tx CH MID Operation Band: Test Engineer: Tin

EUT Pol.: E1 Plane **VERTICAL** Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin	
		Mode	Level	Level	Gain	Loss	@3m		
 MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	
61.04	S	Peak	-53.68	-44.15	-8.44	-1.09	-40.00	-13.68	
144.46	S	Peak	-63.75	-59.92	-2.43	-1.41	-40.00	-23.75	
241.46	S	Peak	-69.12	-70.69	3.31	-1.74	-40.00	-29.12	
381.14	S	Peak	-68.48	-70.04	3.84	-2.27	-40.00	-28.48	
527.61	S	Peak	-65.61	-66.85	3.71	-2.47	-40.00	-25.61	
634.31	S	Peak	-62.12	-62.84	3.17	-2.45	-40.00	-22.12	
4620.00	Н	Peak	-43.49	-48.76	12.70	-7.44	-40.00	-3.49	

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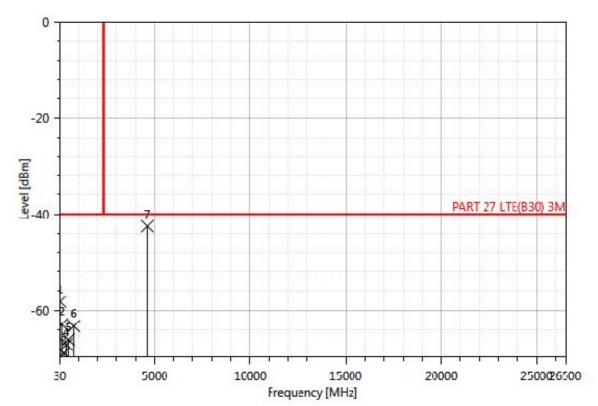
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Operation Mode: LTE B30 Test Date: 05/13/2016 14:58:54

Fundamental Frequency: 2310 MHz Temp. / Humi.: 22 deg\_C / 61 RH

Operation Band: Tx CH MID Test Engineer: Tin

**HORIZONTAL** EUT Pol.: E1 Plane Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
62.01	S	Peak	-58.17	-48.93	-8.15	-1.09	-40.00	-18.17
144.46	S	Peak	-62.87	-59.04	-2.43	-1.41	-40.00	-22.87
260.86	S	Peak	-68.85	-70.73	3.66	-1.78	-40.00	-28.85
372.41	S	Peak	-67.10	-68.73	3.84	-2.21	-40.00	-27.10
481.05	S	Peak	-66.05	-67.59	3.78	-2.24	-40.00	-26.05
749.74	S	Peak	-63.24	-63.34	3.18	-3.08	-40.00	-23.24
4620.00	Н	Peak	-42.49	-47.75	12.70	-7.44	-40.00	-2.49

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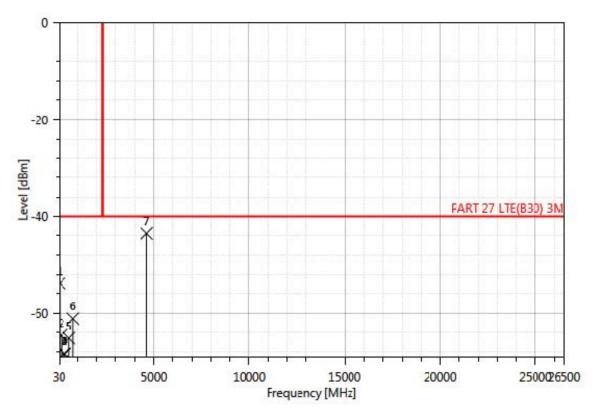
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Operation Mode: Test Date: LTE B30 05/13/2016 14:59:06

Fundamental Frequency: 2312.5 MHz Temp. / Humi.: 22 deg\_C / 61 RH

Operation Band: Tx CH HIGH Test Engineer: Tin

EUT Pol.: E1 Plane **VERTICAL** Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
62.01	S	Peak	-53.88	-44.64	-8.15	-1.09	-40.00	-13.88
143.49	S	Peak	-64.65	-60.76	-2.48	-1.41	-40.00	-24.65
294.81	S	Peak	-68.39	-69.97	3.52	-1.94	-40.00	-28.39
340.40	S	Peak	-68.37	-70.22	3.82	-1.97	-40.00	-28.37
546.04	S	Peak	-65.16	-66.10	3.61	-2.66	-40.00	-25.16
754.59	S	Peak	-61.15	-61.30	3.20	-3.05	-40.00	-21.15
4625.00	Н	Peak	-43.58	-48.84	12.70	-7.44	-40.00	-3.58

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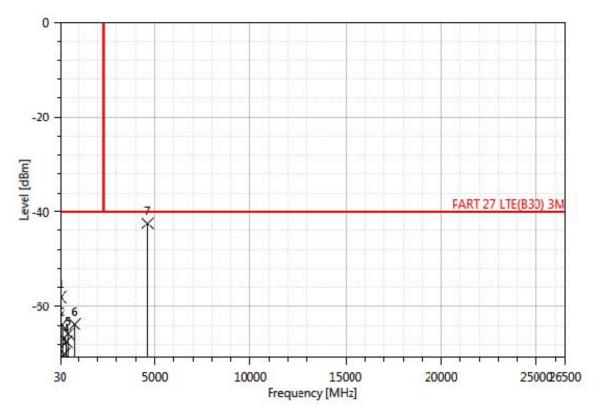
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Operation Mode: LTE B30 Test Date: 05/13/2016 14:59:21

Fundamental Frequency: 2312.5 MHz Temp. / Humi.: 22 deg\_C / 61 RH

Operation Band: Tx CH HIGH Test Engineer: Tin

EUT Pol.: E1 Plane HORIZONTAL Measurement Antenna Pol.:



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	<b>@</b> 3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
62.01	S	Peak	-57.99	-48.75	-8.15	-1.09	-40.00	-17.99
138.64	S	Peak	-63.82	-59.74	-2.69	-1.39	-40.00	-23.82
255.04	S	Peak	-69.99	-71.79	3.56	-1.76	-40.00	-29.99
372.41	S	Peak	-67.44	-69.07	3.84	-2.21	-40.00	-27.44
463.59	S	Peak	-65.82	-67.31	3.71	-2.21	-40.00	-25.82
794.36	S	Peak	-63.73	-64.15	3.32	-2.90	-40.00	-23.73
4625.00	Н	Peak	-42.44	-47.70	12.70	-7.44	-40.00	-2.44

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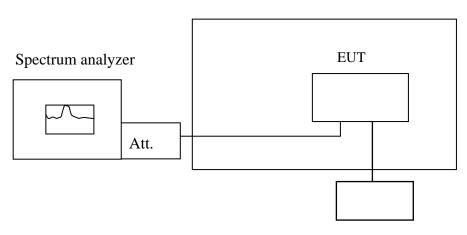
### 11. FREQUENCY STABILITY MEASUREMENT

# 11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

# 11.2. Test Set-up:

# Temperature Chamber



Variable DC Power Supply

**Note:** Measurement setup for testing on Antenna connector

#### 11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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# 11.4. Measurement Equipment Used:

Conduc	ted Emission (m	easured at a	antenna port)	Test Site	
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum					
Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Conviol Coble	HUBER+SUHNE	SUCOFLEX	22670/2 04/02/2046		04/04/0047
Coaxial Cable	R	102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2015	05/16/2016
Radio Communication	D00	01411000	100100	00/44/0040	00/40/0047
Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication	Ammita	MT0000	0004405047	40/40/0045	40/00/0040
Analyer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

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Conduc	cted Emission (m	neasured at a	antenna port)	Test Site	
<b>EQUIPMENT</b>	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Power Meter	Anritsu	ML2495A	1005007	12/08/2016	12/07/2017
Power Sensor	Anritsu	MA2411B	917032	12/08/2016	12/07/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/01/2017	12/31/2017
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/01/2017	12/31/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/01/2017	12/31/2017
Splitter	Agilent	11636B	N/A	01/01/2017	12/31/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/04/2016	11/03/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/05/2016	05/04/2017
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/09/2016	12/08/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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### 11.5. Measurement Result:

#### FREQUENCY ERROR vs. VOLTAGE

INEGOLINO I LIN	INDIX VO. VOLIA	<u> </u>							
Ref	Reference Frequency: GPRS 850 Mid Channel 836.6 MHz								
		Limit: +/- 2.5 ppm							
Power Supply	Environment	Frequency							
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)					
	( 0 )	(1011 12)							
4.43	20	836599995	0	2091					
3.85	20	836599995	0	2091					
3.27	20	836599992	-3	2091					
2.9	20	02050000	4	2004					
(End point)	20	836599999	4	2091					

### FREQUENCY ERROR vs. TEMPERATURE

Re	eference Freque	ncy: GPRS 850 Mid 0	Channel 836.6 M	Hz	
		Limit: +/- 2.5 ppm			
Power Supply	Environment	Frequency			
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)	
3.85	50	836599992	-3	2091	
3.85	40	836599990	-5	2091	
3.85	30	836599988	-7	2091	
3.85	20	836599995	0	2091	
3.85	10	836599993	-2	2091	
3.85	0	836599999	4	2091	
3.85	-10	836599994	-1	2091	
3.85	-20	836599993	-2	2091	
3.85	-30	836599993	-2	2091	

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### FREQUENCY ERROR vs. VOLTAGE

Ref	erence Frequency	y: GPRS 1900 Mi	d Channel 1880 N	ЛНz	
		Limit: +/- 2.5 ppm			
Power Supply	Environment	Frequency		Limit (Hz)	
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)		
4.43	20	1879999996	-1	4700	
3.85	20	1879999997	0	4700	
3.27	20	1879999995	-2	4700	
2.9 (End point)	20	1880000003	6	4700	

### FREQUENCY ERROR vs. TEMPERATURE

R	eference Freque	ency: GPRS 1900 Mid C	hannel 1880 M	Hz	
	L	imit: +/- 2.5 ppm = H	Z		
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (U=)	
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)	
3.85	50	1879999996	-1	4700	
3.85	40	1879999998	1	4700	
3.85	30	1879999994	-3	4700	
3.85	20	1879999997	0	4700	
3.85	10	1879999996	-1	4700	
3.85	0	1879999999	2	4700	
3.85	-10	1880000001	4	4700	
3.85	-20	1880000002	5	4700	
3.85	-30	1880000000	3	4700	

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### FREQUENCY ERROR vs. VOLTAGE

Reference	Reference Frequency: CDMA2000 cell BC0 Mid Channel 836.52 MHz					
Limit: +/- 2.5 ppm						
Power Supply	Environment Frequency					
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25.00	25.00 836.520008		2091.00		
3.80	25.00	25.00 836.519997		2091.00		
3.50	25.00	836.520005	-8.00	2091.00		
3.1	25.00	836.519995	2.00	2091.00		
(End point)						

# FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA2000 cell BC0 Mid Channel 836.52 MHz					
	L	imit: +/- 2.5 ppm =	Hz		
Power Supply	Environment	Frequency		l :: t (l l)	
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)	
3.85	50	836.519997	0.00	2091	
3.85	40	836.520009	-12.00	2091	
3.85	30	836.520006	-9.00	2091	
3.85	20	836.519997	0.00	2091	
3.85	10	836.519995	2.00	2091	
3.85	0	836.520006	-9.00	2091	
3.85	-10	836.520008	-11.00	2091	
3.85	-20	836.520005	-8.00	2091	
3.85	-30	836.519999	-2.00	2091	

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### FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA2000 cell BC1 Mid Channel 1880 MHz					
Limit: +/- 2.5 ppm					
Power Supply	Environment Frequency				
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)	
4.35	25	1880.000004	-9.00	4700	
3.80	25	1879.999995	0.00	4700	
3.50	25	1880.000003	-8.00	4700	
3.1 (End point)	25	1879.999997	-2.00	4700	

### FREQUENCY ERROR vs. TEMPERATURE

124021101 21111011 211111 211111 211111 21111						
Reference Frequency: CDMA2000 cell BC1 Mid Channel 1880 MHz						
	Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (LI=)		
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
3.85	50	1879.999995	13.00	2091		
3.85	40	1880.000003	5.00	2091		
3.85	30	1879.999998	10.00	2091		
3.85	20	1880.000008	0.00	2091		
3.85	10	1879.999995	13.00	2091		
3.85	0	1880.000003	5.00	2091		
3.85	-10	1880.000005	3.00	2091		
3.85	-20	1879.999995	13.00	2091		
3.85	-30	1880.000004	4.00	2091		

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### FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz						
Limit: +/- 2.5 ppm						
Power Supply	Environment Frequency					
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
4.43	20	1880000000	-2	4700		
3.85	20	1880000002	0	4700		
3.27	20 1879999998		-4	4700		
2.9	20	1880000000	-2	4700		
(End point)						

### FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880					
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency			
Vdc	Temperature (°C)	(MHz)	(MHz) Delta (Hz)		
3.85	50	1880000002	0	4700	
3.85	40	1879999999	-3	4700	
3.85	30	1880000001	-1	4700	
3.85	20	1880000002	0	4700	
3.85	10	1879999999	-3	4700	
3.85	0	1879999998	-4	4700	
3.85	-10	1880000002	0	4700	
3.85	-20	1879999996	-6	4700	
3.85	-30	1880000001	-1	4700	

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### FREQUENCY ERROR vs. VOLTAGE

REGULTO: ETROR TO TOETROE						
Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz						
Limit: +/- 2.5 ppm						
Power Supply	y Environment Frequency					
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
4.43	20	173260000	-2	4331		
3.85	20	173260002	0	4331		
3.27	20	20 173259998		4331		
2.9	20	173260002	0	4331		
(End point)	20	173200002	U			

### FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz						
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature (°C)	(MHz)	(MHz) Delta (Hz)			
3.85	50	173259999	-3	4331		
3.85	40	173260000	-2	4331		
3.85	30	173260004	2	4331		
3.85	20	173260002	0	4331		
3.85	10	173260000	-2	4331		
3.85	0	173260003	1	4331		
3.85	-10	173260000	-2	4331		
3.85	-20	173260004	2	4331		
3.85	-30	173260001	-1	4331		

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### FREQUENCY FRROR vs. VOI TAGE

FREQUENC	FREQUENCY ERROR VS. VOLTAGE					
Reference Frequency: WCDMA V Mid Channel 836.6 MHz						
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)		
4.43	20	836599999	1	2091		
3.85	20	836599998	0	2091		
3.27	20	836599999	1	2091		
2.9 (End Point)	20	836599996	-2	2091		

### FREQUENCY ERROR vs. TEMPERATURE

INEGOLIA	REQUEROT ERROR VS. TEMI ERATORE						
	Reference Frequency: WCDMA V Mid Channel 836.6 MHz						
Limit: +/- 2.5 ppm							
Power Supply	Environment	Frequency	Dolto (U=)	Limit (Ll=)			
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)			
3.85	50	836599998	0	2091			
3.85	40	836599999	1	2091			
3.85	30	836600001	3	2091			
3.85	20	836599998	0	2091			
3.85	10	836599998	0	2091			
3.85	0	836599999	1	2091			
3.85	-10	836600000	2	2091			
3.85	-20	836599996	-2	2091			
3.85	-30	836599997	-1	2091			

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#### FREQUENCY FRROR vs. VOI TAGE

FREQUENCY ERROR VS. VOLTAGE						
Reference Frequency:		LTE B2 Mid Channel	1880	MHz 10M QPSK CH 18900		
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)		
4.43	25	1880.000003	5.80	4700		
3.85	25	1879.999997	0.00	4700		
3.46	25	1879.999995	-2.80	4700		
3.1 (End Point)	25	1880.000002	5.00	4700		

### FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B2 Mid Channel	1880	MHz	10M QPSK CH 18900
		Limit: +/	/- 2.5 ppm		
Power Supply	Environment	Frequency	Dolto (U=)		Limit (Lla)
Vdc	Temperature (°C)	(MHz)	Delta (Hz)		Limit (Hz)
3.85	-30	1880.000002	5.20		4700
3.85	-20	1880.000002	5.50		4700
3.85	-10	1880.000004	7.50		4700
3.85	0	1879.999999	2.30		4700
3.85	10	1879.999999	2.40		4700
3.85	20	1879.999996	0.00		4700
3.85	30	1880.000001	5.00		4700
3.85	40	1879.999998	1.30		4700
3.85	50	1879.999998	1.20		4700

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#### FREQUENCY FRROR vs. VOI TAGE

TREGOLIGET ERROR VS. VOLTAGE					
Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175	
	Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency			
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)	
4.43	25	1732.499995	-3.70	4331	
3.85	25	1732.499998	0.00	4331	
3.46	25	1732.500002	3.20	4331	
3.1 (End Point)	25	1732.499998	-0.80	4331	

# FREQUENCY ERROR vs. TEMPERATURE

Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175	
	Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Dolto (Ula)	Limit (Ll=)	
Vdc	Temperature (°C)	(MHz)	- Delta (Hz)	Limit (Hz)	
3.85	-30	1732.500004	9.00	4331	
3.85	-20	1732.500001	5.60	4331	
3.85	-10	1732.500001	6.10	4331	
3.85	0	1732.500000	4.70	4331	
3.85	10	1732.500001	6.10	4331	
3.85	20	1732.499995	0.00	4331	
3.85	30	1732.499996	0.80	4331	
3.85	40	1732.499999	3.70	4331	
3.85	50	1732.500003	7.40	4331	

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#### FREQUENCY FRROR vs. VOI TAGE

FREQUENCT ERROR VS. VOLTAGE				
Reference Frequency:		LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency		
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)
4.43	25	836.500003	0.40	2091
3.85	25	836.500002	0.00	2091
3.46	25	836.500002	-0.70	2091
3.1 (End Point)	25	836.499995	-6.90	2091

#### FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525		
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (U=)		
Vdc	Temperature $(^{\circ}C)$	(MHz)	Delta (Hz)	Limit (Hz)		
3.85	-30	836.500000	-2.90	2091		
3.85	-20	836.500002	-1.60	2091		
3.85	-10	836.499998	-4.70	2091		
3.85	0	836.500000	-3.40	2091		
3.85	10	836.499996	-6.70	2091		
3.85	20	836.500003	0.00	2091		
3.85	30	836.500000	-3.40	2091		
3.85	40	836.500004	0.50	2091		
3.85	50	836.500000	-2.90	2091		

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### FREQUENCY FRROR vs. VOI TAGE

TREGOLIGE ERROR VS. VOLTAGE					
Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 10M QPSK CH 21100	
	Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency			
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)	
4.43	25	2535.000003	3.80	6338	
3.85	25	2534.999999	0.00	6338	
3.46	25	2535.000006	6.80	6338	
3.1 (End Point)	25	2535.000002	3.20	6338	

#### FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B7 Mid Channel	2535.0	MHz 10M QPSK CH 21100
		Limit: +/- 2.5	ppm	
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Uz)
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)
3.85	-30	2535.000000	2.20	6338
3.85	-20	2535.000003	5.20	6338
3.85	-10	2534.999999	0.70	6338
3.85	0	2534.999998	0.10	6338
3.85	10	2535.000002	4.00	6338
3.85	20	2534.999998	0.00	6338
3.85	30	2535.000004	5.80	6338
3.85	40	2535.000001	3.60	6338
3.85	50	2535.000003	5.00	6338

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#### FREQUENCY FRROR vs. VOI TAGE

TREGOLICT ERROR VS. VOLTAGE					
Reference Frequency:		LTE B12 Mid Channel	707.5	MHz 10M QPSK CH 23095	
	Limit: +/- 2.5 ppm				
Power Sup- ply	Environment	Frequency			
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)	
4.43	25	707.500004	5.60	1769	
3.85	25	707.499998	0.00	1769	
3.46	25	707.499998	0.50	1769	
3.1 (End Point)	25	707.500003	4.90	1769	

# FREQUENCY ERROR vs. TEMPERATURE

REGULACT ERROR VS. TEMI ERATURE				
Reference	ce Frequency:	LTE B12 Mid Channel	707.5	MHz 10M QPSK CH 23095
		Limit: +/- 2.5	ppm	
Power Supply	Environment	Frequency	Dolto (Hz)	limit (U→)
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)
3.85	-30	707.500000	0.90	1769
3.85	-20	707.500006	6.90	1769
3.85	-10	707.500005	6.30	1769
3.85	0	707.499996	-2.30	1769
3.85	10	707.499995	-3.60	1769
3.85	20	707.499999	0.00	1769
3.85	30	707.500003	4.50	1769
3.85	40	707.500003	4.10	1769
3.85	50	707.500002	3.60	1769

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#### FREQUENCY ERROR vs. VOLTAGE

TREGORIOT ERROR VS. VOLTAGE					
Reference Frequency:		LTE B13 Mid	782.0	MHz 10M QPSK CH	
	, ,	Channel		23230	
	Limit: +/- 2.5 ppm				
Power		F			
Supply	Environment	Frequency			
	Temperature		Delta (Hz)	Limit (Hz)	
Vdc	(°C)	(MHz)			
4.35	25	782.000004	10	1955	
3.8	25	781.999994	0	1955	
3.5	25	781.999996	2	1955	
3.1	25	792 000001	7	1055	
(End Point)	25	782.000001	7	1955	

### FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230		
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Hz)		
Vdc	Temperature (°C)	(MHz)	Delta (Hz)			
3.85	-30	782.000003	-9	1955		
3.85	-20	782.000001	-11	1955		
3.85	-10	782.000013	1	1955		
3.85	0	781.99999	-22	1955		
3.85	10	781.999995	-17	1955		
3.85	20	782.000012	0	1955		
3.85	30	782.000012	0	1955		
3.85	40	782.000006	-6	1955		
3.85	50	781.999999	-13	1955		

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#### FREQUENCY FRROR vs. VOI TAGE

TREGULICI ERROR VS. VOLTAGE					
Reference Frequency:		LTE B30 Mid Channel	27710.0	MHz 10M QPSK CH 27710	
	Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency			
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)	
4.43	25	27709.999999	-1.90	69275	
3.85	25	27710.000001	0.00	69275	
3.46	25	27709.999998	-3.80	69275	
3.1 (End Point)	25	27709.999998	-3.50	69275	

# FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B30 Mid Channel	2310.0	MHz 10M QPSK CH 27710
		Limit: +/- 2.5	ppm	
Power Supply	Environment	Frequency	D alta (I I - )	I ::t (I I)
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)
3.85	-30	2309.999998	-1.80	5775
3.85	-20	2309.999999	-0.50	5775
3.85	-10	2310.000002	2.50	5775
3.85	0	2310.000002	2.60	5775
3.85	10	2310.000002	2.40	5775
3.85	20	2309.999999	0.00	5775
3.85	30	2310.000000	0.80	5775
3.85	40	2309.999998	-1.80	5775
3.85	50	2309.999999	-0.20	5775

Note: The battery is rated 3.85V dc.

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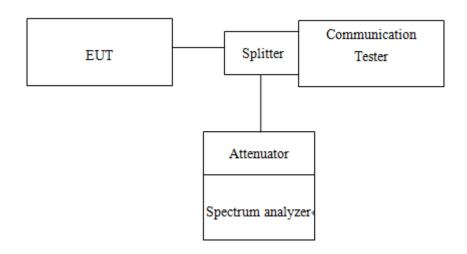
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# 12. PEAK TO AVERAGE RATIO

# 12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

### 12.2. Test SET-UP



### 12.3. Measurement Procedure

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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# 12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016			
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016			
EXA Spectrum								
Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017			
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017			
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017			
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017			
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017			
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016			
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2015	05/16/2016			
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017			
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016			
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016			

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Conduc	Conducted Emission (measured at antenna port) Test Site								
<b>EQUIPMENT</b>	MFR	MODEL	MODEL SERIAL		CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Power Meter	Anritsu	ML2495A	1005007	12/08/2016	12/07/2017				
Power Sensor	Anritsu	MA2411B	917032	12/08/2016	12/07/2017				
DC Block	Mini-Circuits	BLK-18-S+	1	01/01/2017	12/31/2017				
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/01/2017	12/31/2017				
Attenuator	Mini-Circuit	BW-S10W2+	2	01/01/2017	12/31/2017				
Splitter	Agilent	11636B	N/A	01/01/2017	12/31/2017				
DC Power Supply	Agilent	E3640A	MY52410006	11/04/2016	11/03/2017				
Temperature Chamber	TERCHY	MHG-120LF	911009	05/05/2016	05/04/2017				
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/09/2016	12/08/2017				

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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## 12.5. Measurement Result

### **Tabular Results:**

Frequency (MHz)	СН	Pe	ak-to-Average R (dB)	atio
	Сп	GSM	GPRS	EDGE
824.20	128	9.37	10.10	12.60
836.60	190	9.64	9.67	12.26
848.80	251	9.20	9.51	12.75

Frequency	СН	Peak-to-Average Ratio (dB)			
(MHz)	СП	GSM	GPRS	EDGE	
1850.20	9296	9.85	10.05	12.55	
1880.00	9400	9.54	9.78	12.59	
1909.80	9538	9.51	9.66	12.78	

Frequency	СН	Peak-to-Average Ratio (dB)		
(MHz)	Сп	CDMA BC0	EVDO BC0	
824.70	1013	4.29	4.22	
836.52	384	4.27	4.52	
848.31	777	4.24	4.33	

Frequency (MHz)	СН	Peak-to-Ave (dl	_
	Сп	CDMA BC1	EVDO BC1
1851.25	25	4.30	4.19
1880.00	600	4.21	4.37
1908.75	1175	4.13	4.31

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Frequency	СН	Pe	Peak-to-Average Ratio (dB)				
(MHz)	ОП	WCDMA II	HSDPA II	HSUPA II			
1852.4	1312	2.65	3.71	3.68			
1880.0	1413	2.84	3.78	3.86			
1907.6	1513	2.79	3.61	3.65			

Frequency	СН	Peak-to-Average Ratio (dB)			
(MHz)	СП	WCDMA IV	HSDPA IV	HSUPA IV	
1712.4	1312	2.81	3.81	3.84	
1732.6	1413	2.94	3.71	3.80	
1752.6	1513	3.06	3.84	3.86	

Frequency	СН	Peak-to-Average Ratio (dB)			
(MHz)	СП	WCDMA V	HSDPA V	HSUPA V	
826.40	4132	3.30	4.03	4.05	
836.60	4183	3.31	3.82	3.88	
846.60	4233	3.34	4.13	4.16	



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LTE BAND 2									
Channel bandwidth: 1.4MHz				Cha	nnel bar	dwidth: 3N	lHz		
Frequency	СН	Peak-to-Average Ratio (dB)		Frequency	СН	Peak-to-Average Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)	•	16QAM	LIMIT		
1850.7	18607	4.90	13	1851.5	18615	5.06	13		
1880.0	18900	5.48	13	1880.0	18900	5.37	13		
1909.3	19193	5.06	13	1908.5	19185	5.19	13		

LTE BAND 2									
Channel bandwidth: 5MHz			Chai	nnel ban	dwidth: 10N	ИHz			
Frequency	СН	Peak-to-Average Ratio (dB)		Frequency	СН	Peak-to-Average Ratio (dB)			
(MHz)	16QAM	16QAM	LIMIT	(MHz)		16QAM	LIMIT		
1852.5	18625	5.29	13	1855.0	18650	5.61	13		
1880.0	18900	5.64	13	1880.0	18900	5.91	13		
1907.5	19175	5.56	13	1905.0	19150	5.97	13		

	LTE BAND 2									
Channel bandwidth: 15MHz			Chai	nnel ban	dwidth: 20N	ЛHz				
Frequency	СН	Peak-to-Average Ratio (dB)		Frequency	СН	Peak-to-Average Ratio (dB)				
(MHz)	16QAM	LIMIT	(MHz)		16QAM	LIMIT				
1857.5	18675	6.52	13	1860.0	18700	6.99	13			
1880.0	18900	6.55	13	1880.0	18900	7.10	13			
1902.5	19125	6.68	13	1900.0	19100	7.08	13			

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			LTE I	BAND 4				
Channel bandwidth: 1.4MHz				Cha	Channel bandwidth: 3MHz			
Frequency	СН	Ra	Average tio B)	Frequency	СН	Peak-to-Average Ratio (dB)		
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT	
1710.7	19957	5.18	13	1711.5	19965	5.19	13	
1732.5	20175	5.56	13	1732.5	20175	5.45	13	
1754.3	20393	5.66	13	1753.5	20385	5.50	13	

			LTE I	BAND 4			
Channel bandwidth: 5MHz				Chai	nnel ban	dwidth: 10N	ИHz
Frequency	СН	Peak-to-Average Ratio CH (dB)		Frequency	СН	Peak-to-Average Ratio (dB)	
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT
1712.5	19957	5.52	13	1715.0	20000	5.86	13
1732.5	20175	5.67	13	1732.5	20175	5.88	13
1752.5	20375	5.78	13	1750.0	20350	5.99	13

			LTE I	BAND 4			
Channel bandwidth: 15MHz				Chai	nnel ban	dwidth: 20N	ЛHz
Frequency	СН	Peak-to-Average Ratio CH (dB) Frequency		СН	Peak-to-Average Ratio (dB)		
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT
1717.5	20025	6.67	13	1720.0	20050	7.08	13
1732.5	20175	6.61	13	1732.5	20175	6.91	13
1747.5	20325	6.63	13	1745.0	20300	6.98	13

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LTE BAND 5										
Char	nnel bar	ndwidth: 1.4	lМНz	Channel bandwidth: 3MHz						
Frequency CH		Peak-to-Average Ra- tio (dB)		Frequency	СН	Peak-to-Average Ra- tio (dB)				
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT			
824.7	20407	6.78	13	825.5	20415	6.57	13			
836.5	20525	6.87	13	836.5	20525	6.45	13			
848.3	20643	6.70	13	847.5	20635	6.41	13			

			LTE B	AND 5			
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency	СН	Peak-to-Average Ra- tio (dB)		Frequency	СН	Peak-to-Average Ra- tio (dB)	
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT
826.5	20425	6.65	13	2505.0	20800	6.62	13
836.5	20525	6.61	13	2535.0	21100	6.45	13
846.5	20625	6.61	13	2565.0	21400	6.56	13

LTE BAND 7										
Cha	nnel ba	ndwidth: 5	ИHz	Chai	Channel bandwidth: 10MHz					
Frequency	СН	Ra	Average tio B)	Frequency		Peak-to-Average Ratio (dB)				
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT			
2502.5	20775	5.64	13	2505.0	20800	5.88	13			
2535.0	21100	5.69	13	2535.0	21100	5.82	13			
2567.5	21425	5.65	13	2565.0	21400	5.88	13			

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Char	anal bar	- d : d£l 4 E		BAND 7	nnal han	d:d4b. 200	
Frequency		Peak-to-Average Ratio (dB)		Frequency		dwidth: 20MHz  Peak-to-Average  Ratio (dB)	
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT
2507.5	20425	6.53	13	2510.0	20850	6.99	13
2535.0	20525	6.54	13	2535.0	21100	7.01	13
2562.5	20625	6.47	13	2560.0	21350	6.97	13

LTE BAND 12									
Channel bandwidth: 1.4MHz				Cha	Channel bandwidth: 3MHz				
Frequency	СН	Peak-to-Average Ratio (dB)		Frequency	СН	Peak-to-Average Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
699.7	23017	6.00	13	700.5	23025	5.58	13		
707.5	23095	6.09	13	707.5	23095	6.10	13		
715.3	23173	5.65	13	714.5	23165	5.47	13		

LTE BAND 12										
Cha	nnel ba	ndwidth: 5	ИHz	Chai	Channel bandwidth: 10MHz					
Frequency	СН	Ra	Average tio B)	Frequency	СН	Peak-to-Average Ratio (dB)				
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT			
701.5	23035	5.79	13	704.0	23060	6.06	13			
707.5	23095	6.19	13	707.5	23095	6.17	13			
713.5	23155	5.74	13	711.0	23130	5.88	13			

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			LTE B	BAND 13				
Channel bandwidth: 5MHz				Cha	Channel bandwidth: 10MHz			
Frequency	СН	Peak-to-A Rati CH (dB		Frequency	СН	Peak-to-Average Ratio (dB)		
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT	
779.5	23205	5.83	13					
782.0	23230	5.77	13	782.0	23230	5.81	13	
784.5	23255	5.88	13					

			LTE B	SAND 30				
Channel bandwidth: 5MHz				Cha	Channel bandwidth: 10MHz			
Frequency		Peak-to-Average Ratio (dB)		Frequency	СН	Peak-to-Average Ratio (dB)		
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT	
2307.5	27685	5.47	13					
2310.0	27710	5.41	13	2310.0	27710	5.64	13	
2312.5	27735	5.38	13					

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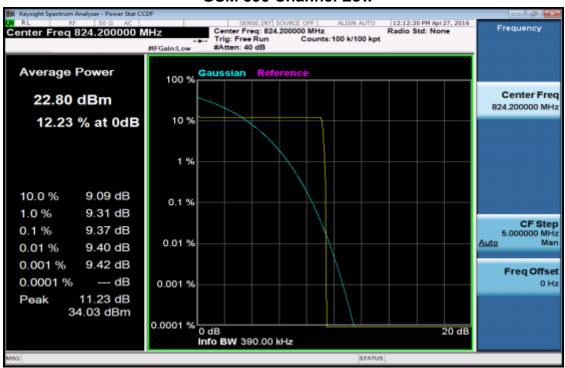
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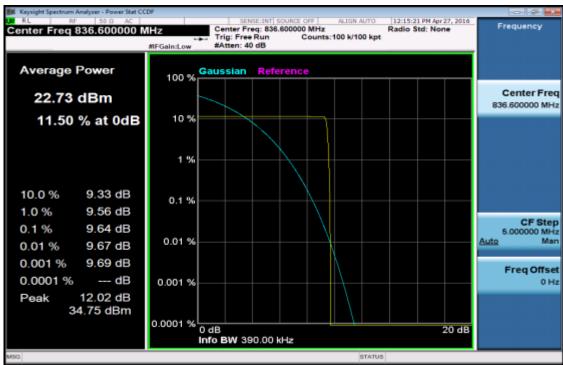
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#### **Measurement Results:**

### **GSM 850 Channel Low**



#### **GSM 850 Channel Mid**



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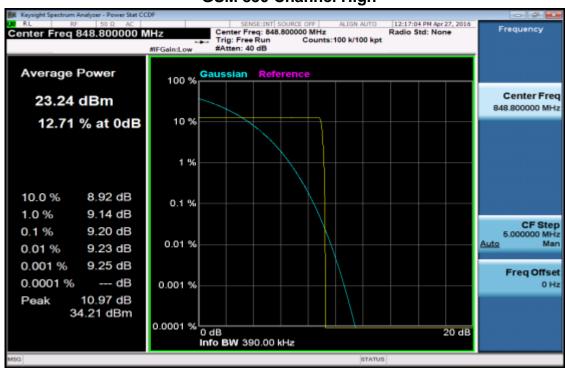
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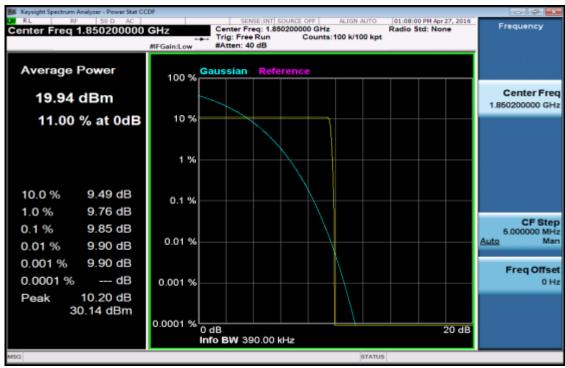


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# **GSM 850 Channel High**



## **GSM 1900 Channel Low**



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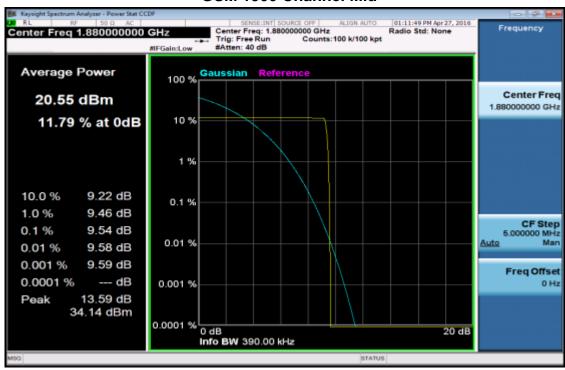
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### **GSM 1900 Channel Mid**



## GSM 1900 Channel High



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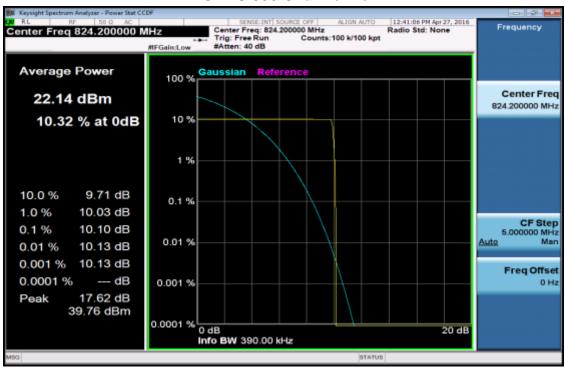
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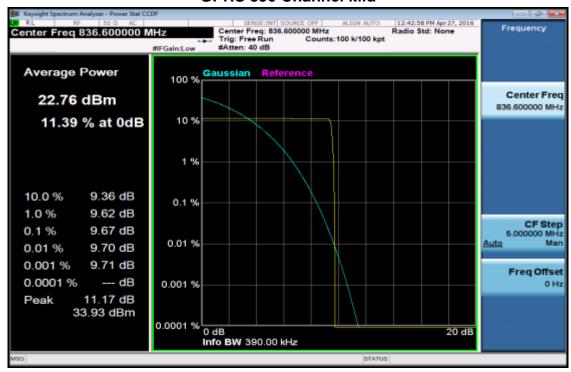


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#### **GPRS 850 Channel Low**



# **GPRS 850 Channel Mid**



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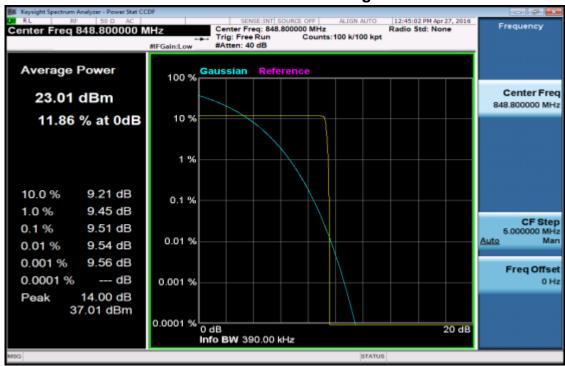
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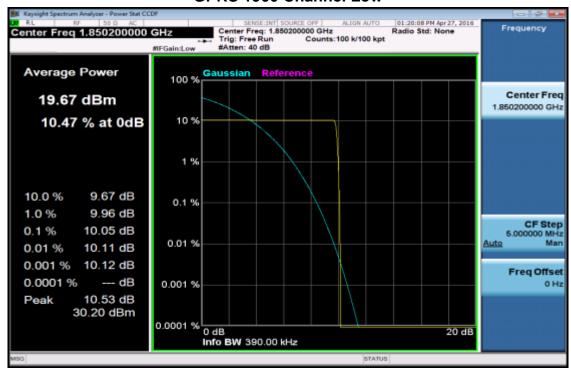


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## **GPRS 850 Channel High**



# **GPRS 1900 Channel Low**



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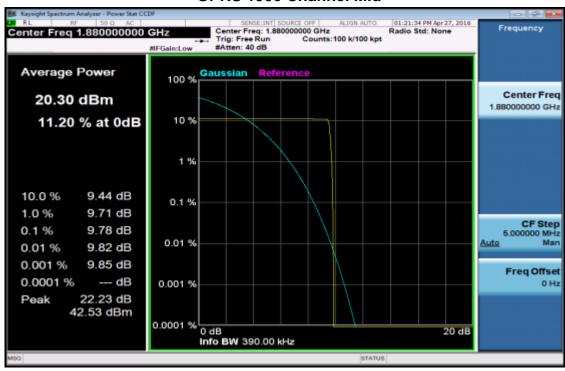
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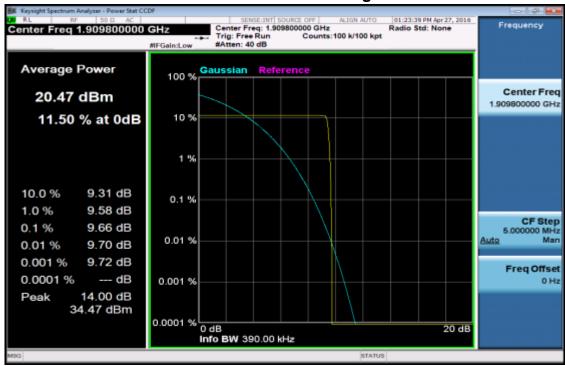


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### **GPRS 1900 Channel Mid**



## GPRS 1900 Channel High



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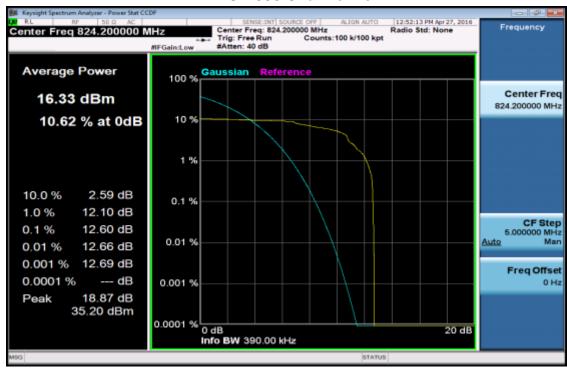
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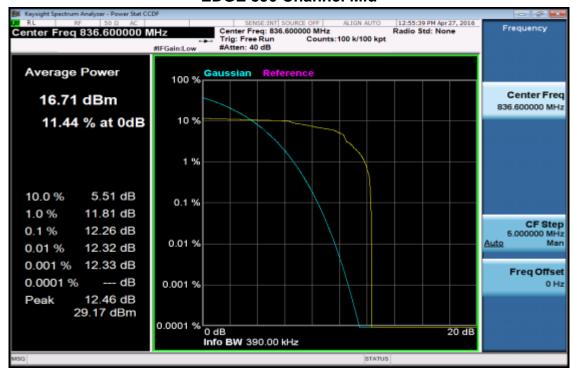


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### **EDGE 850 Channel Low**



# **EDGE 850 Channel Mid**



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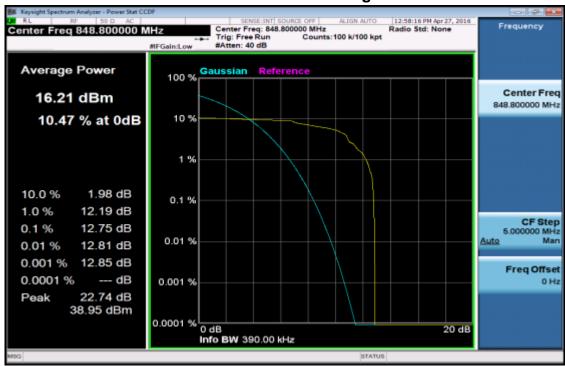
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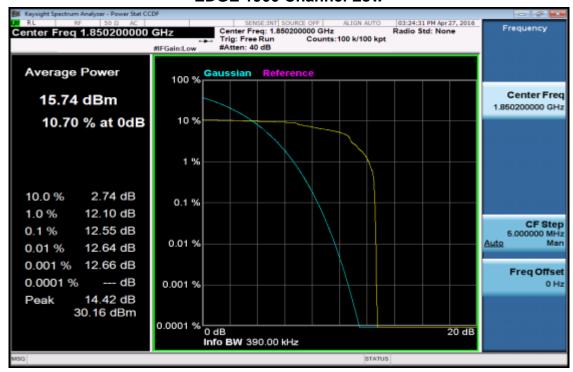


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## **EDGE 850 Channel High**



# **EDGE 1900 Channel Low**



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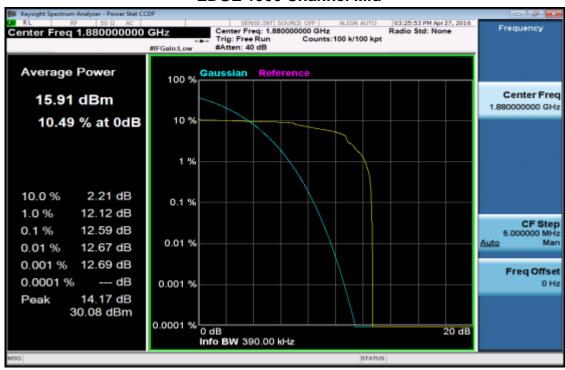
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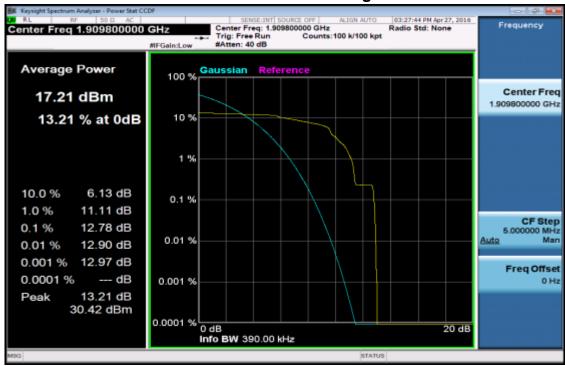


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### **EDGE 1900 Channel Mid**



## **EDGE 1900 Channel High**



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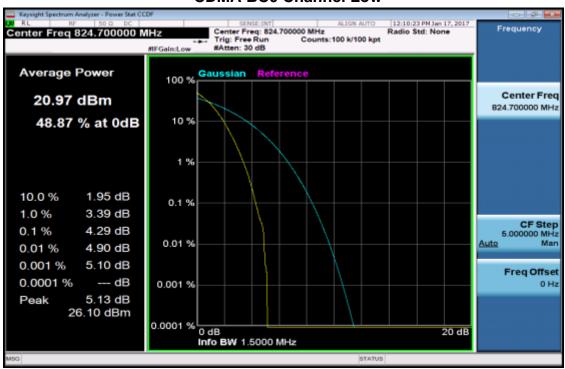
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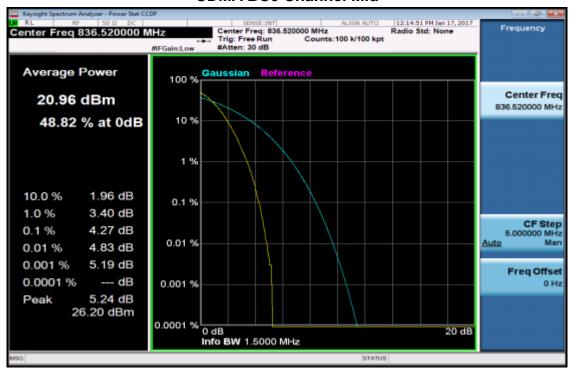


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### CDMA BC0 Channel Low



### CDMA BC0 Channel Mid



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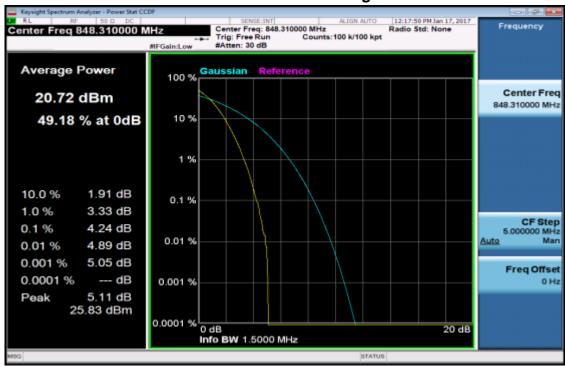
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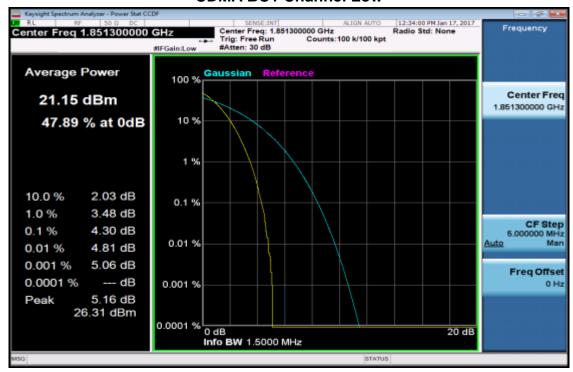


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## **CDMA BC0 Channel High**



## **CDMA BC1 Channel Low**



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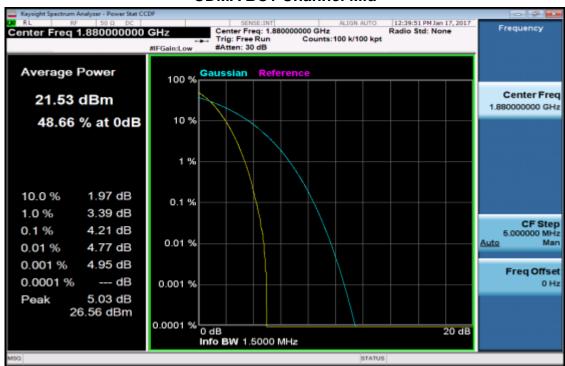
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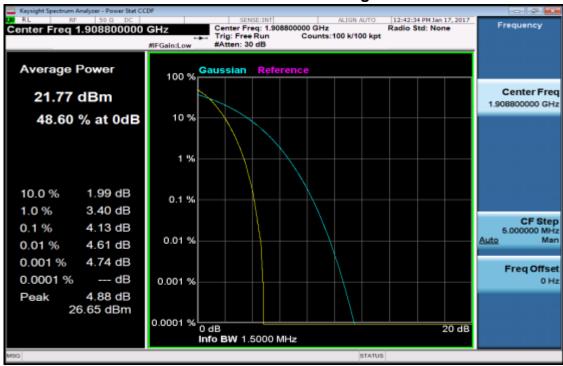


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#### **CDMA BC1 Channel Mid**



## CDMA BC1 Channel High



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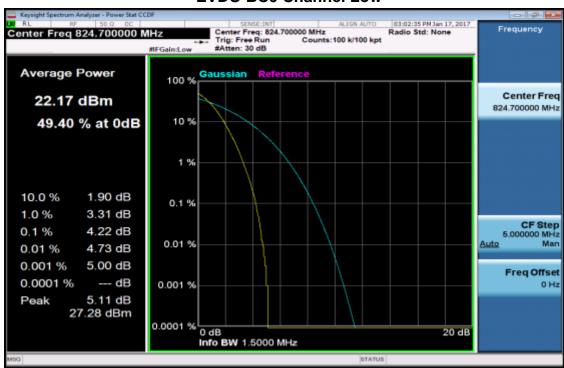
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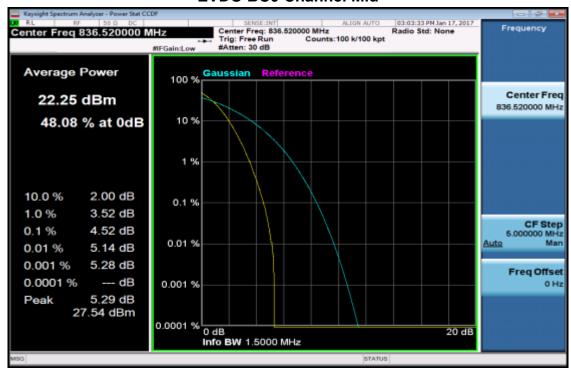


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### **EVDO BC0 Channel Low**



# **EVDO BC0 Channel Mid**



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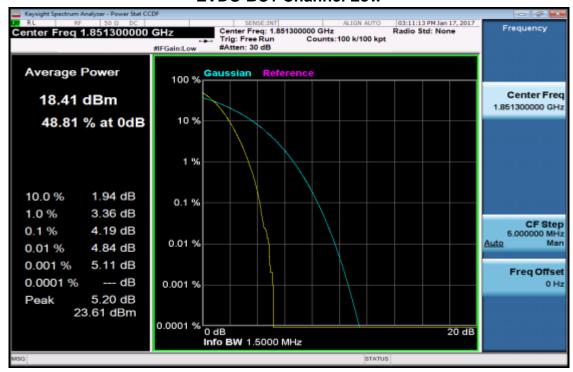


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## **EVDO BC0 Channel High**



## **EVDO BC1 Channel Low**



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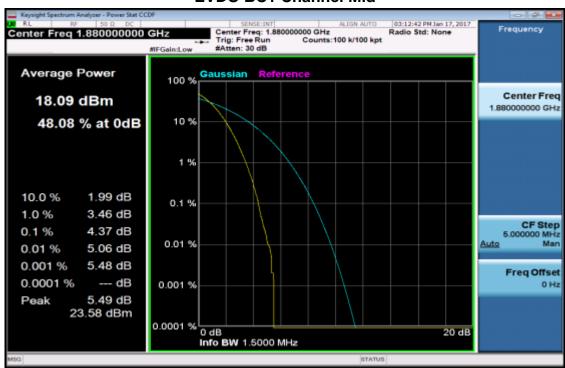
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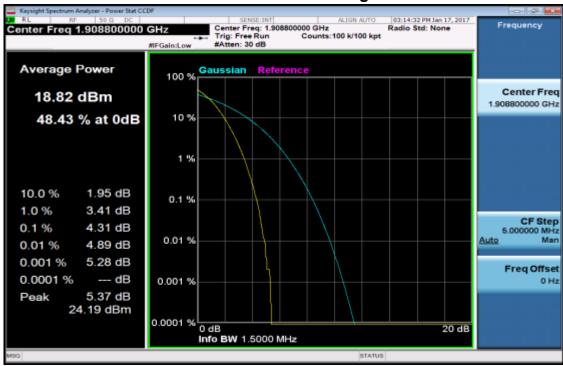


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# **EVDO BC1 Channel Mid**



## **EVDO BC1 Channel High**



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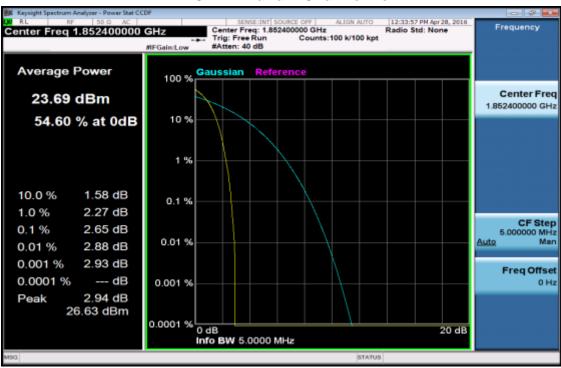
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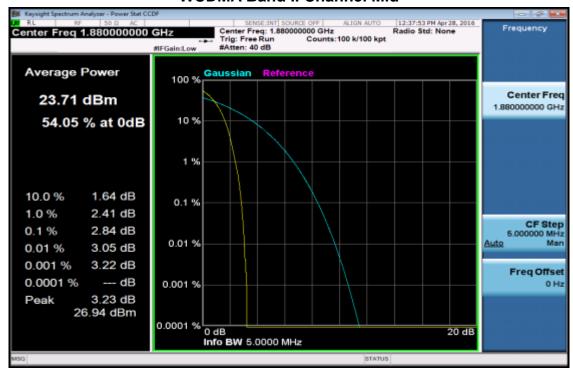


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#### WCDMA Band II Channel Low



## WCDMA Band II Channel Mid



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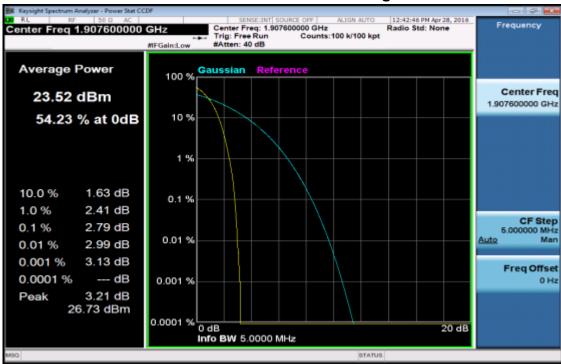
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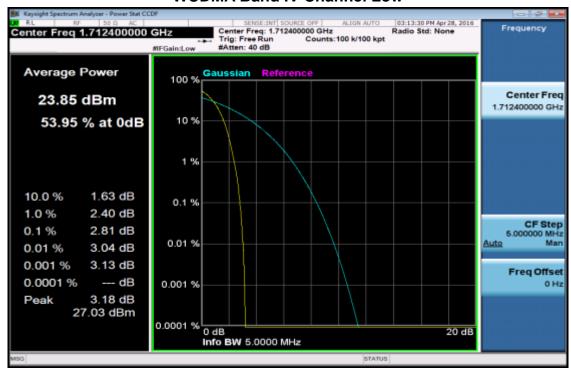


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# **WCDMA Band II Channel High**



## **WCDMA Band IV Channel Low**



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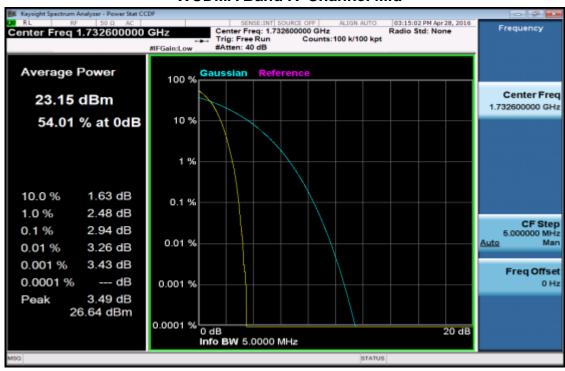
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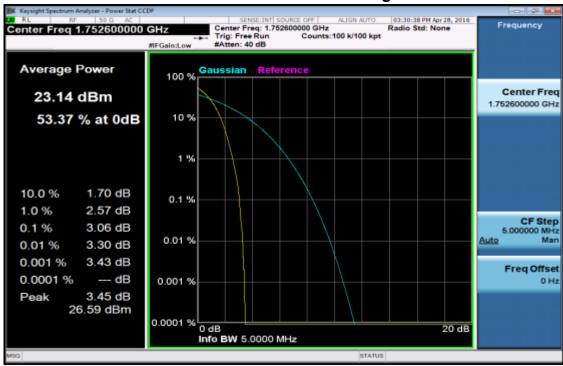


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### **WCDMA Band IV Channel Mid**



## WCDMA Band IV Channel High



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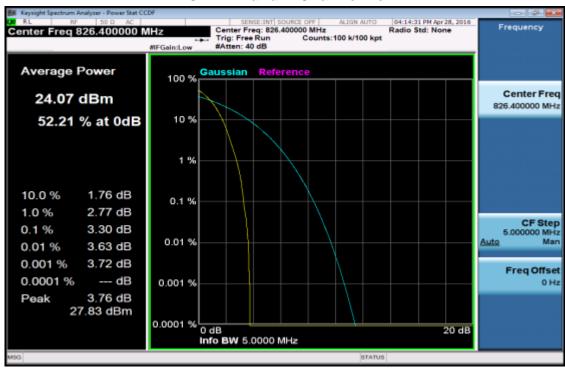
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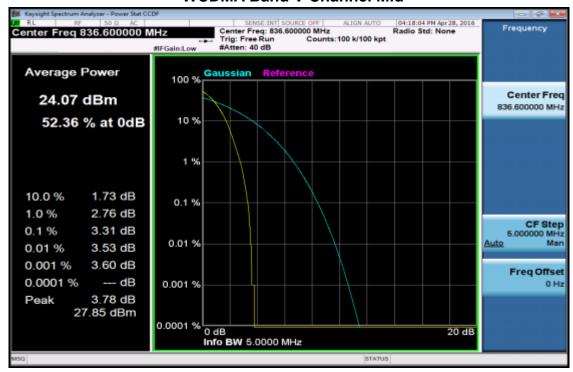


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### **WCDMA Band V Channel Low**



## WCDMA Band V Channel Mid



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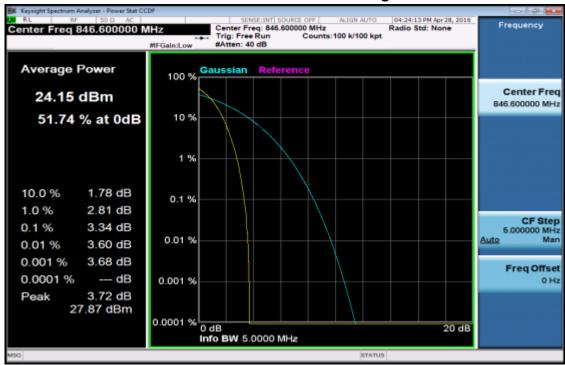
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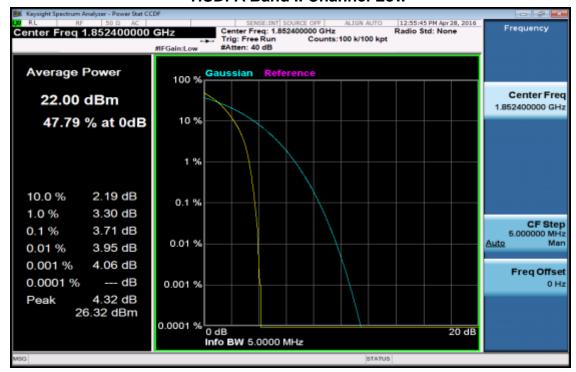


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# **WCDMA Band V Channel High**



## **HSDPA Band II Channel Low**



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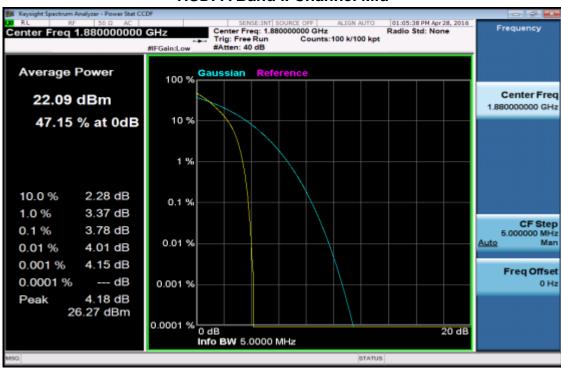
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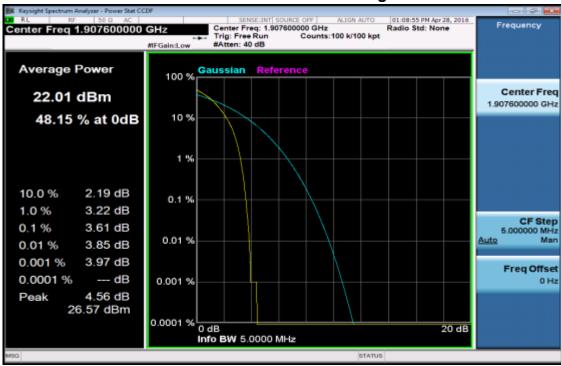


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## **HSDPA Band II Channel Mid**



## **HSDPA Band II Channel High**



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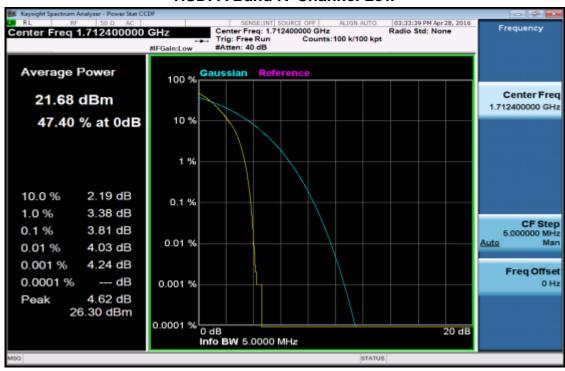
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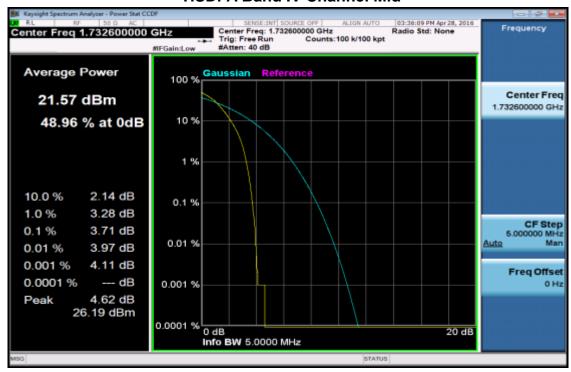


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### **HSDPA Band IV Channel Low**



## **HSDPA Band IV Channel Mid**



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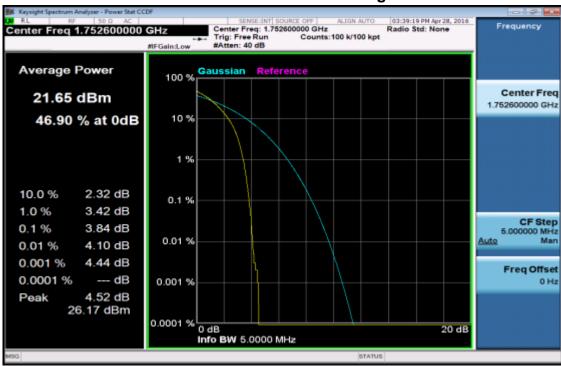
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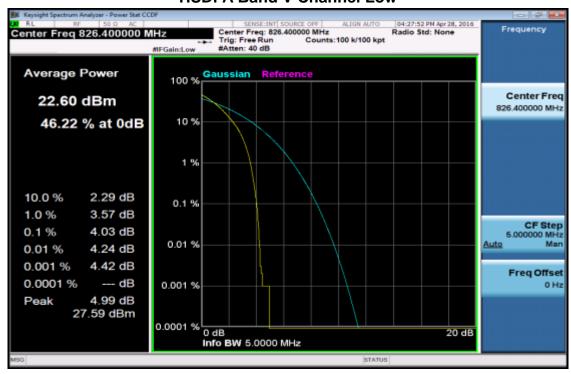


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## **HSDPA Band IV Channel High**



### **HSDPA Band V Channel Low**



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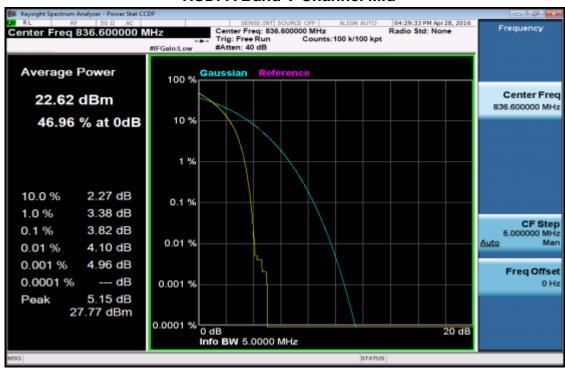
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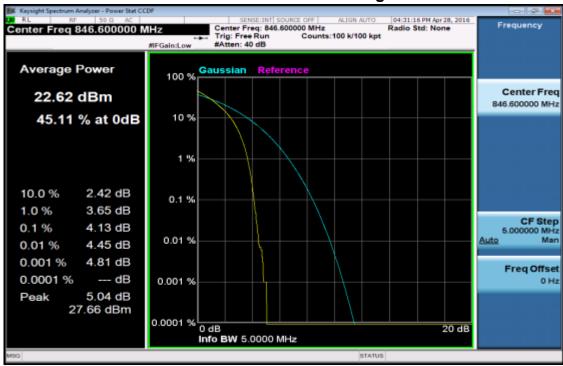


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#### **HSDPA Band V Channel Mid**



## **HSDPA Band V Channel High**



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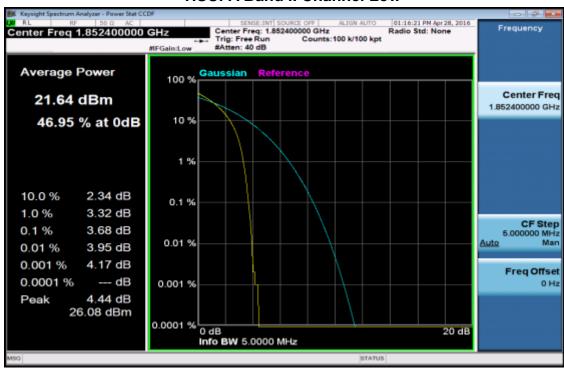
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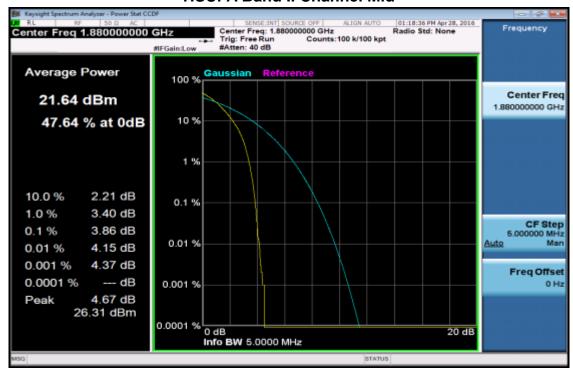


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### **HSUPA Band II Channel Low**



## **HSUPA Band II Channel Mid**



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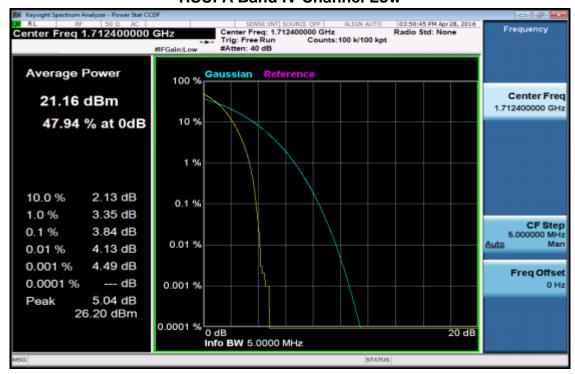


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# **HSUPA Band II Channel High**



### **HSUPA Band IV Channel Low**



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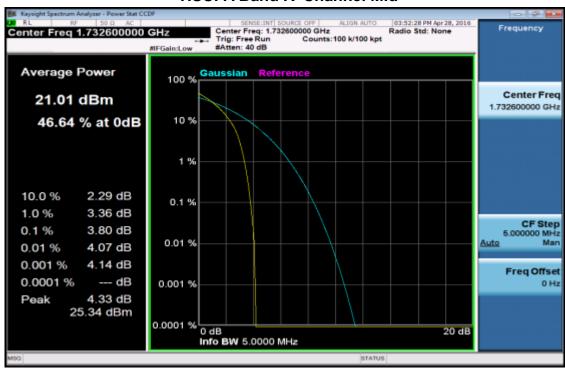
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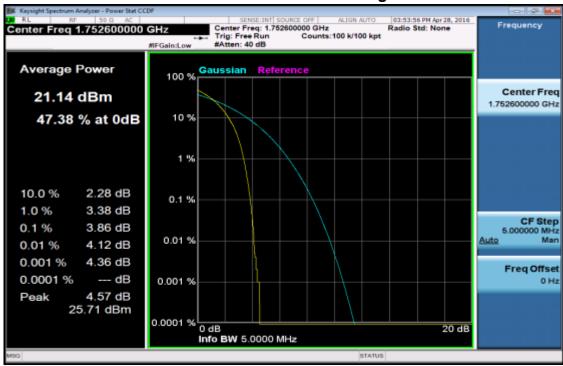


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#### **HSUPA Band IV Channel Mid**



## **HSUPA Band IV Channel High**



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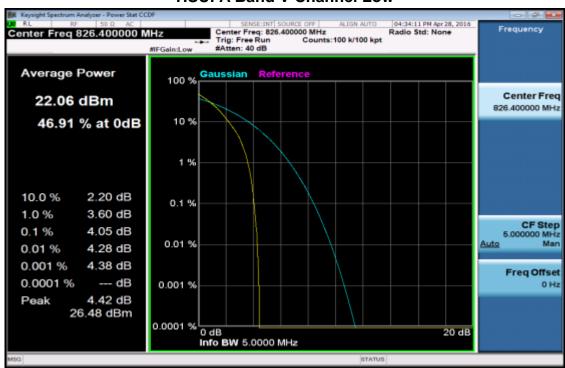
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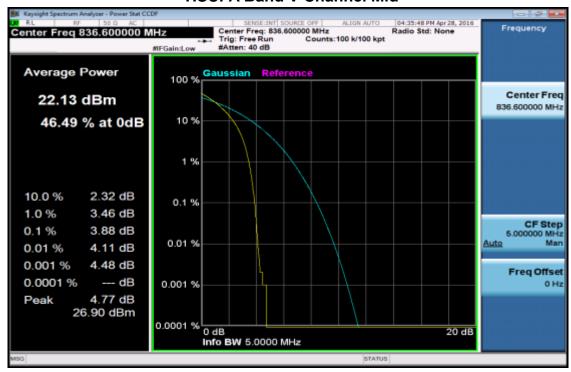


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### **HSUPA Band V Channel Low**



#### **HSUPA Band V Channel Mid**



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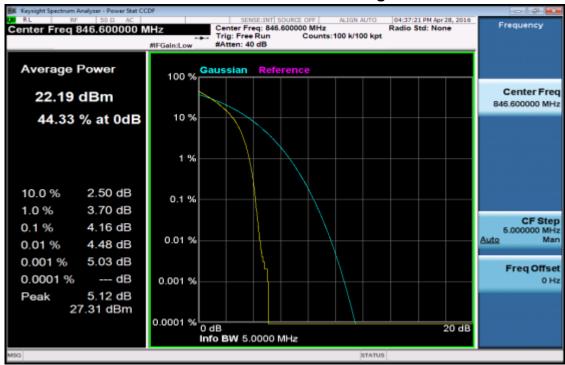
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#### **HSUPA Band V Channel High**



# 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low



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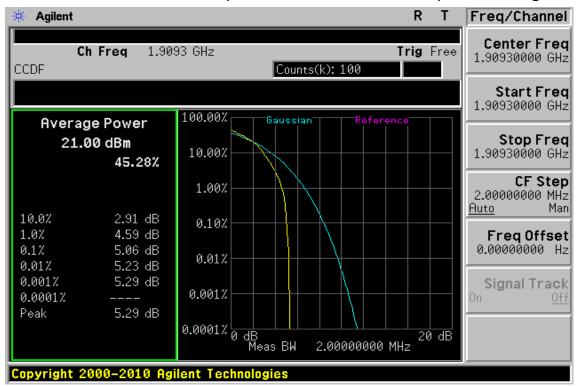


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#### 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



#### 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High



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#### 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



#### 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid



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### 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High



#### 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low



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## 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid



## 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High



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## 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low



#### 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid



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## 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



#### 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low



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## 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



#### 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High



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## 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



#### 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid



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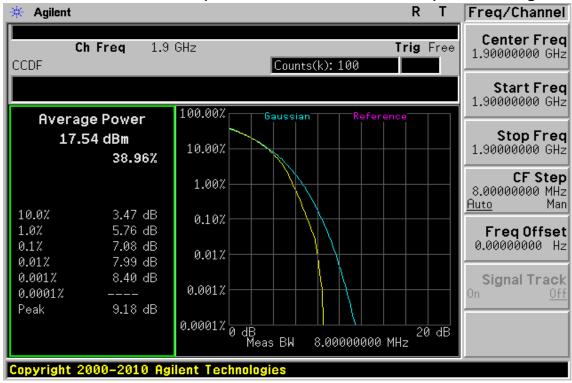
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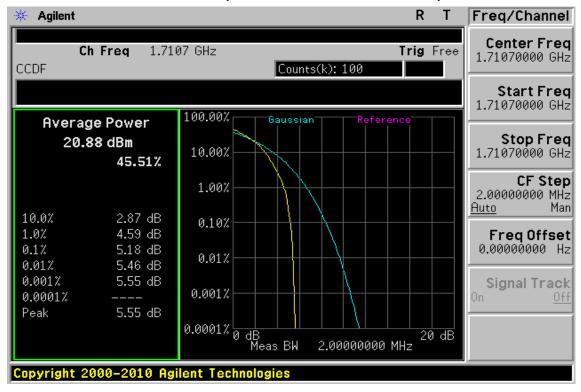


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#### 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High



#### 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low



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### 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid



#### 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High



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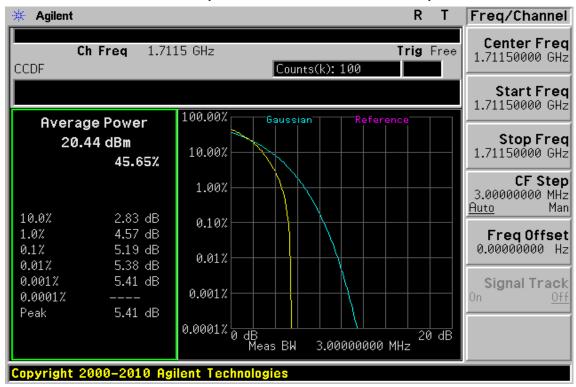
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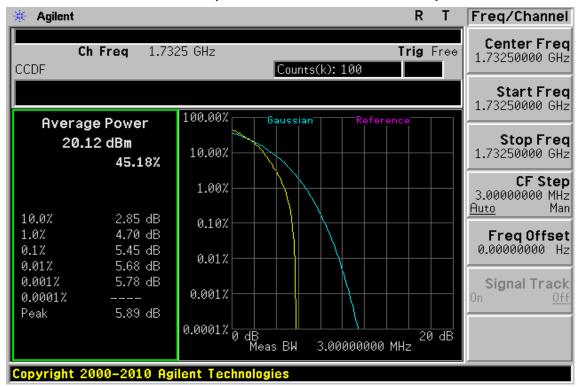


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#### 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low



#### 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid



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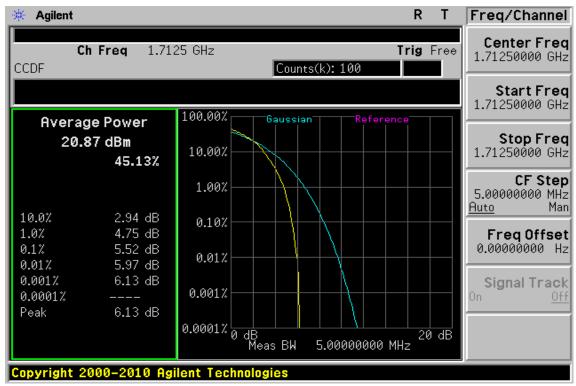


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#### 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High



## 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low



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## 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



#### 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High



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#### 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low



#### 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid



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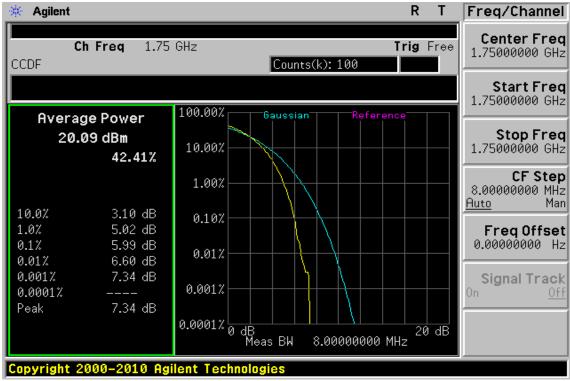
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## 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High



#### 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Low



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## 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid



#### 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel High



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#### 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low



#### 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Mid



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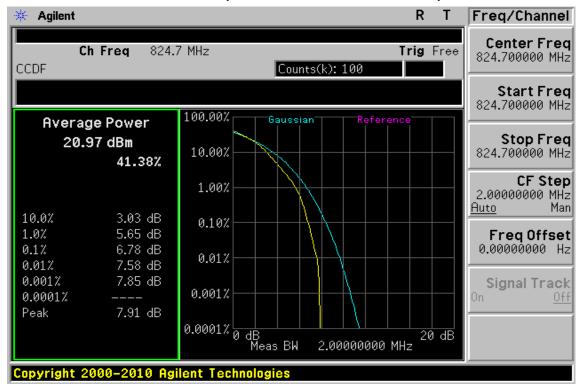


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## 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High



#### 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low



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### 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



# 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High



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## 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low



#### 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid



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#### 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High



#### 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low



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## 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid



## 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High



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## 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low



#### 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid



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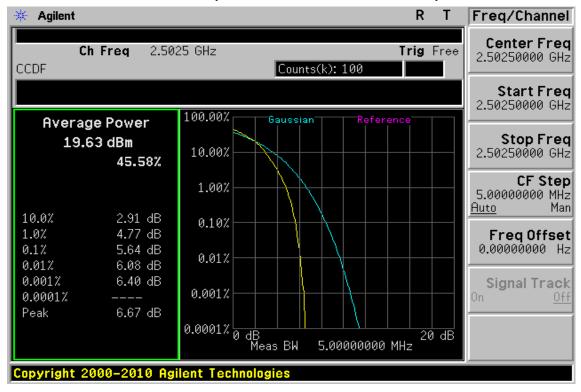


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## 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High



5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low



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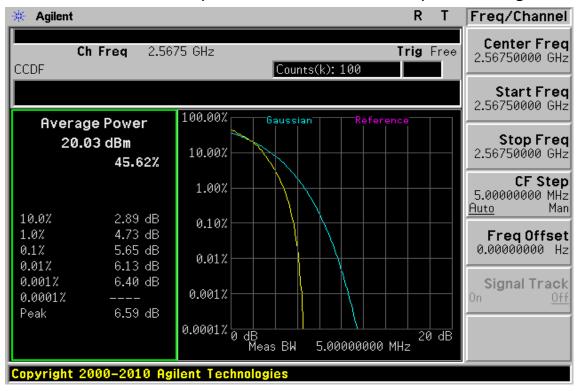


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## 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid



#### 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel High



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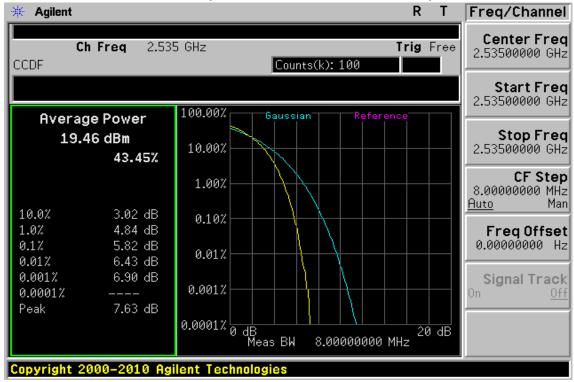


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## 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low



### 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid



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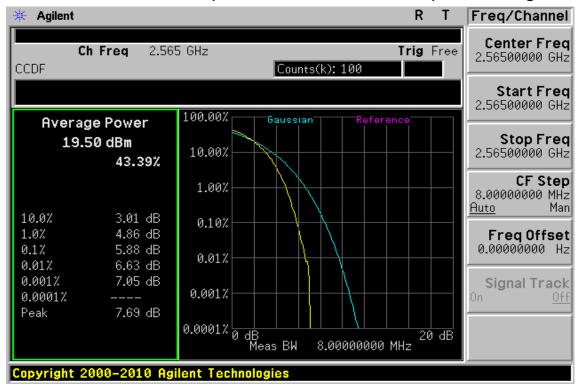
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### 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High



### 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low



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#### 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid



### 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High



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### 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low



### 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid



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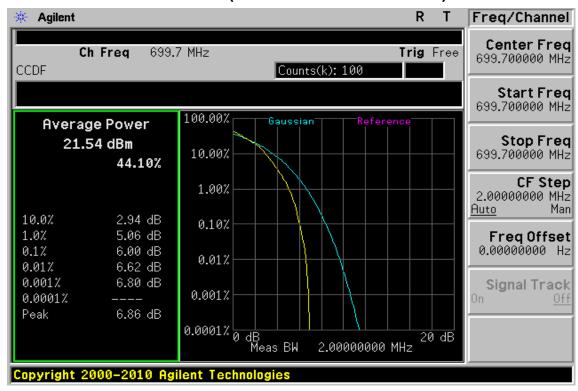


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## 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High



### 1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel Low



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#### 1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel Mid



#### 1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel High



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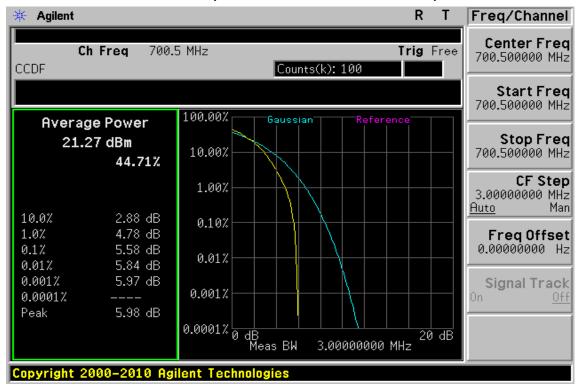
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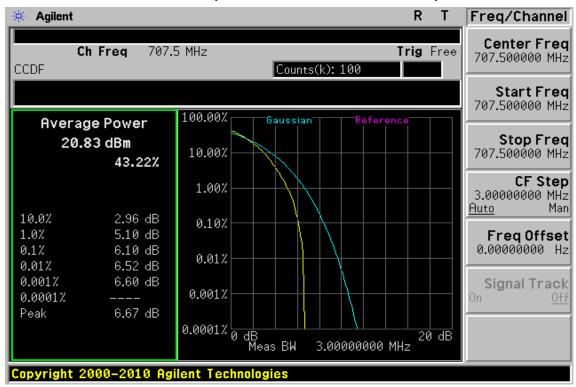


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#### 3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel Mid



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## 3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel High



#### 5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel Low



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## 5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel Mid



#### 5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel High



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#### 10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel Low



#### 10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel Mid



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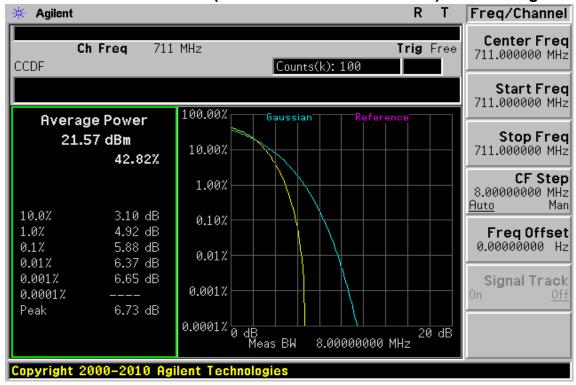
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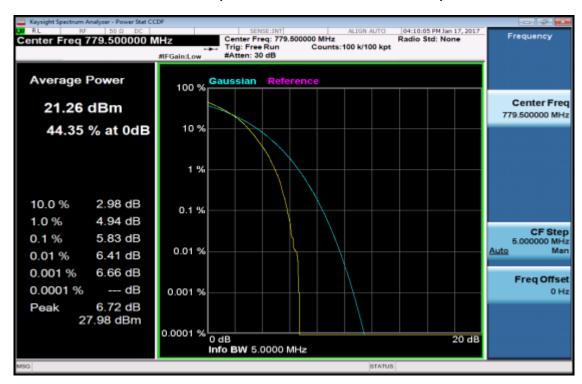


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### 10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel High



5MHz BW LTE-Band 13 (16QAM Number: 25 Offset: 0) Channel Low



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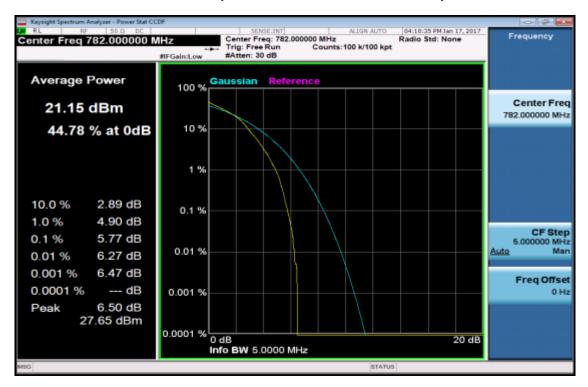
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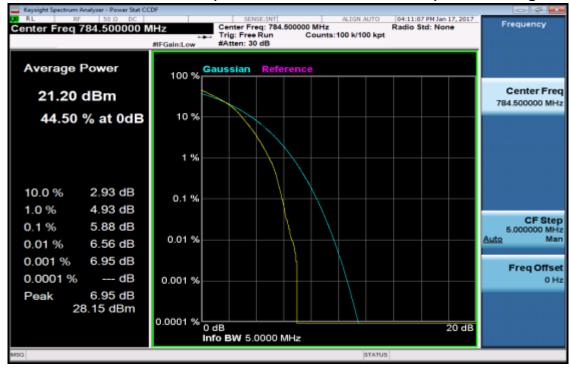


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#### 5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel Mid



### 5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel High



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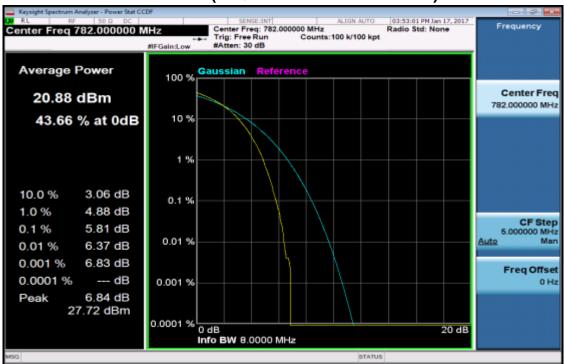
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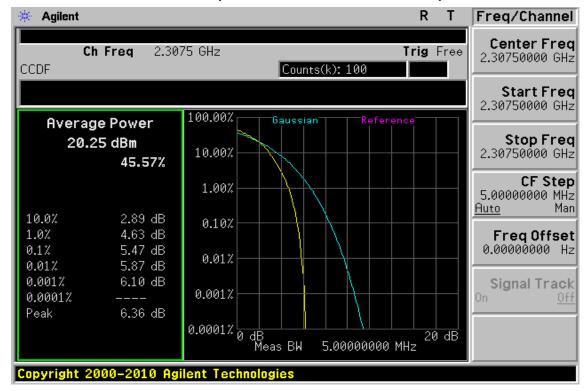


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### 10MHz BW LTE-Band 13(16QAM Number: 50 Offset: 0) Channel Mid



#### 5MHz BW LTE-Band 30(16QAM Number: 25 Offset: 0) Channel Low



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### 5MHz BW LTE-Band 30(16QAM Number: 25 Offset: 0) Channel Mid



#### 5MHz BW LTE-Band 30(16QAM Number: 25 Offset: 0) Channel High



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#### 10MHz BW LTE-Band 30(16QAM Number: 50 Offset: 0) Channel Mid



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