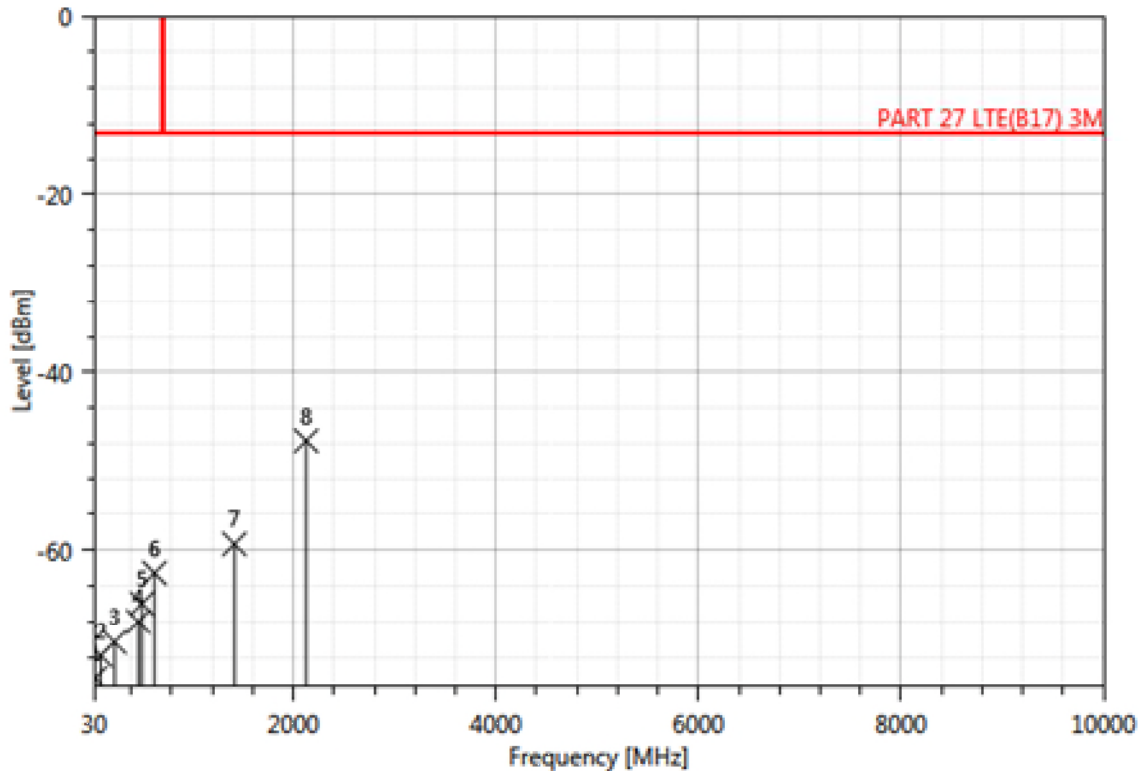


Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Mode :	LTE B17	Test Date :	10/07/2016
Fundamental Frequency :	709.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



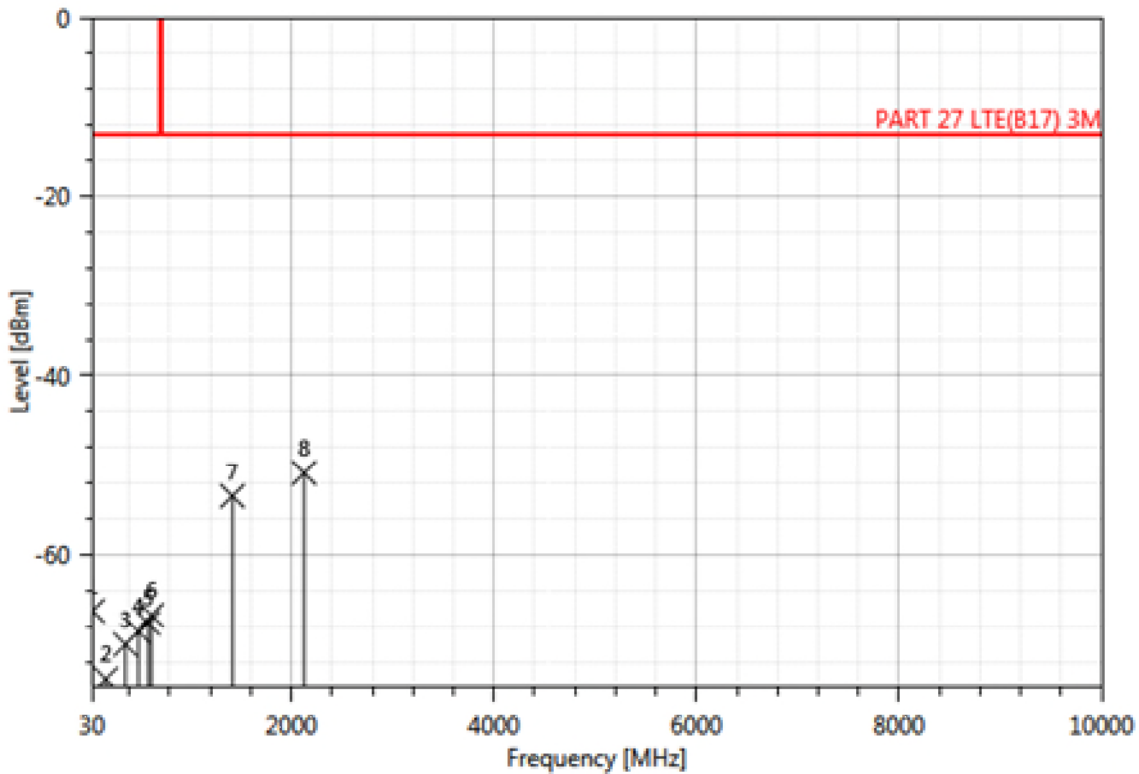
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
41.64	S	Peak	-74.38	-60.54	-12.83	-1.00	-13.00	-61.38
95.96	S	Peak	-71.79	-69.40	-1.16	-1.23	-13.00	-58.79
233.70	S	Peak	-70.30	-71.74	3.18	-1.73	-13.00	-57.30
469.41	S	Peak	-67.98	-69.49	3.73	-2.22	-13.00	-54.98
505.30	S	Peak	-65.96	-67.46	3.83	-2.33	-13.00	-52.96
628.49	S	Peak	-62.54	-63.25	3.18	-2.47	-13.00	-49.54
1418.00	H	Peak	-59.29	-63.72	8.35	-3.92	-13.00	-46.29
2127.00	H	Peak	-47.69	-53.42	10.54	-4.81	-13.00	-34.69

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Operation Mode :	LTE B17	Test Date :	10/07/2016
Fundamental Frequency :	709.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
36.79	S	Peak	-66.26	-51.85	-13.43	-0.98	-13.00	-53.26
167.74	S	Peak	-73.90	-71.32	-1.07	-1.51	-13.00	-60.90
361.74	S	Peak	-70.02	-71.73	3.85	-2.14	-13.00	-57.02
488.81	S	Peak	-68.55	-70.10	3.81	-2.27	-13.00	-55.55
585.81	S	Peak	-67.65	-68.20	3.34	-2.79	-13.00	-54.65
619.76	S	Peak	-66.74	-67.39	3.20	-2.55	-13.00	-53.74
1418.00	H	Peak	-53.42	-57.86	8.35	-3.92	-13.00	-40.42
2127.00	H	Peak	-50.84	-56.57	10.54	-4.81	-13.00	-37.84

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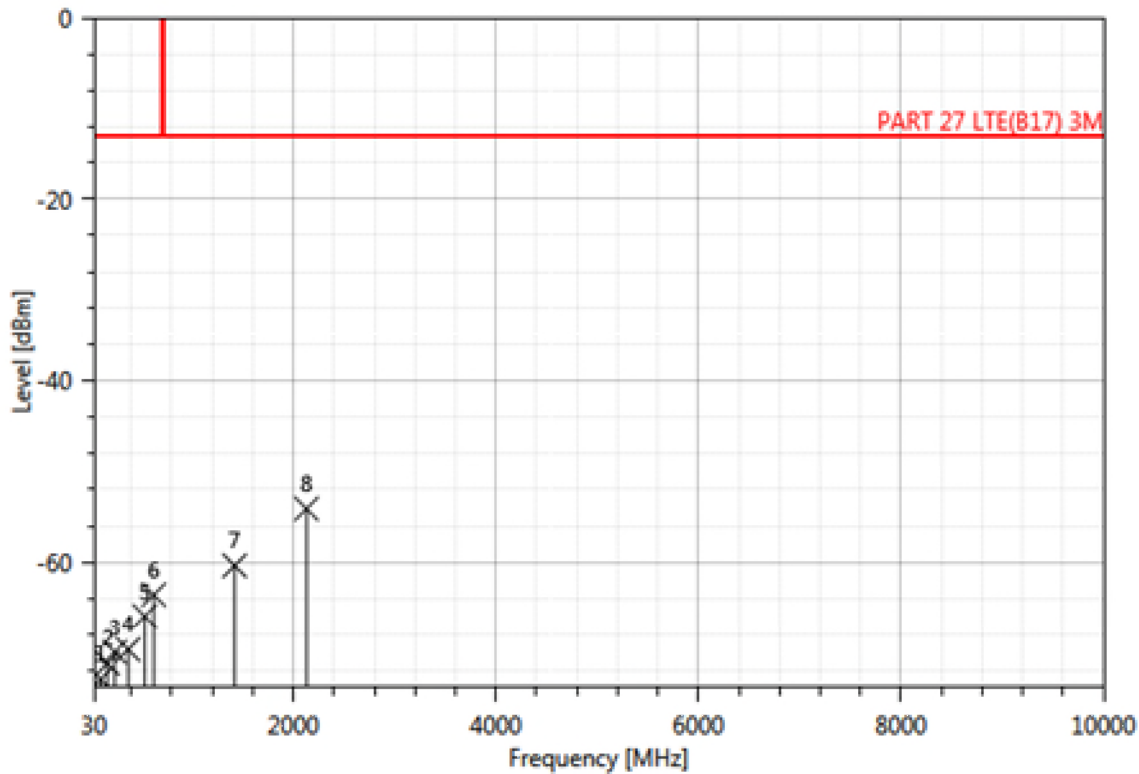
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Operation Mode :	LTE B17	Test Date :	10/07/2016
Fundamental Frequency :	710.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



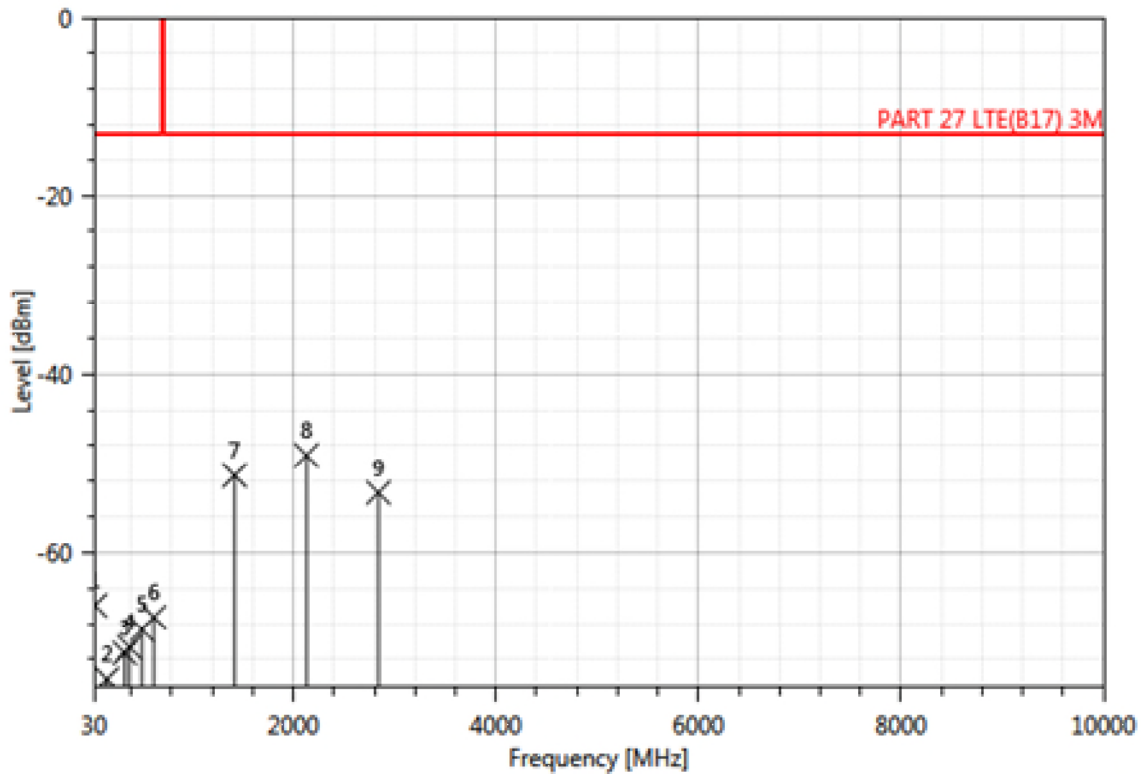
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
97.90	S	Peak	-72.90	-70.27	-1.38	-1.24	-13.00	-59.90
165.80	S	Peak	-71.17	-68.46	-1.21	-1.50	-13.00	-58.17
235.64	S	Peak	-69.90	-71.38	3.21	-1.73	-13.00	-56.90
367.56	S	Peak	-69.63	-71.30	3.85	-2.18	-13.00	-56.63
532.46	S	Peak	-65.95	-67.10	3.68	-2.52	-13.00	-52.95
621.70	S	Peak	-63.56	-64.22	3.20	-2.53	-13.00	-50.56
1420.00	H	Peak	-60.36	-64.80	8.36	-3.92	-13.00	-47.36
2130.00	H	Peak	-54.11	-59.84	10.54	-4.81	-13.00	-41.11

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Operation Mode :	LTE B17	Test Date :	10/07/2016
Fundamental Frequency :	710.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
39.70	S	Peak	-65.89	-51.78	-13.11	-0.99	-13.00	-52.89
159.01	S	Peak	-74.18	-71.02	-1.68	-1.47	-13.00	-61.18
335.55	S	Peak	-71.25	-73.11	3.80	-1.93	-13.00	-58.25
381.14	S	Peak	-70.57	-72.13	3.84	-2.27	-13.00	-57.57
505.30	S	Peak	-68.62	-70.12	3.83	-2.33	-13.00	-55.62
623.64	S	Peak	-67.21	-67.89	3.19	-2.52	-13.00	-54.21
1420.00	H	Peak	-51.30	-55.74	8.36	-3.92	-13.00	-38.30
2130.00	H	Peak	-49.03	-54.76	10.54	-4.81	-13.00	-36.03
2840.00	H	Peak	-53.24	-58.88	11.32	-5.68	-13.00	-40.24

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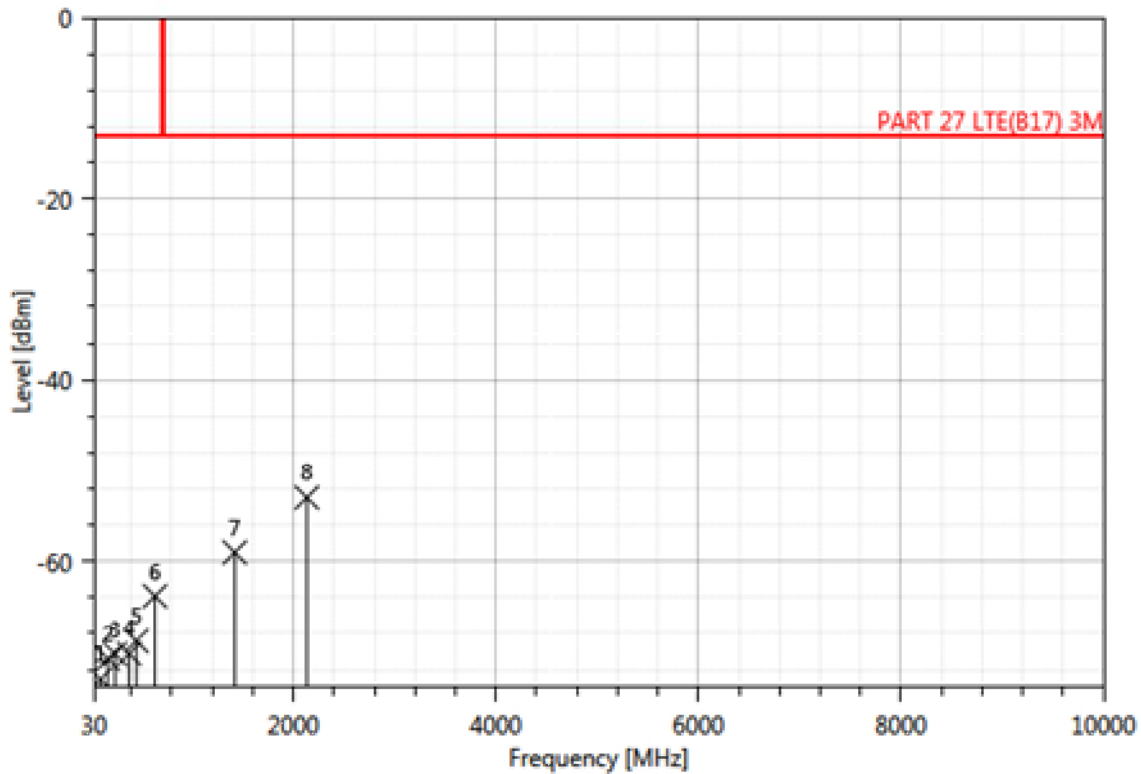
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Operation Mode : LTE B17 Test Date : 10/07/2016
 Fundamental Frequency : 711.0 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
95.96	S	Peak	-73.03	-70.64	-1.16	-1.23	-13.00	-60.03
167.74	S	Peak	-70.80	-68.22	-1.07	-1.51	-13.00	-57.80
238.55	S	Peak	-70.27	-71.79	3.26	-1.74	-13.00	-57.27
379.20	S	Peak	-70.22	-71.80	3.84	-2.26	-13.00	-57.22
449.04	S	Peak	-68.82	-70.28	3.65	-2.19	-13.00	-55.82
633.34	S	Peak	-63.84	-64.56	3.17	-2.46	-13.00	-50.84
1422.00	H	Peak	-59.02	-63.47	8.37	-3.93	-13.00	-46.02
2133.00	H	Peak	-52.97	-58.71	10.54	-4.81	-13.00	-39.97

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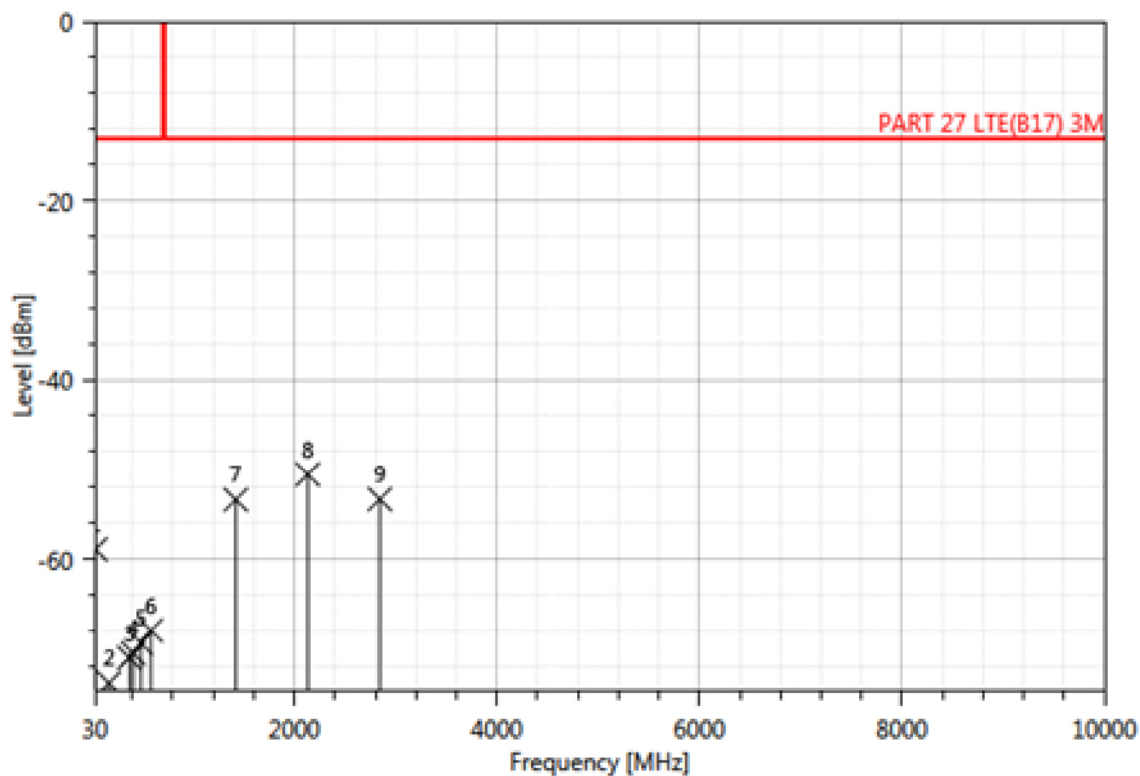
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Operation Mode : LTE B17 Test Date : 10/07/2016
 Fundamental Frequency : 711.0 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-58.90	-44.26	-13.67	-0.97	-13.00	-45.90
168.71	S	Peak	-73.87	-71.35	-1.00	-1.51	-13.00	-60.87
372.41	S	Peak	-71.05	-72.68	3.84	-2.21	-13.00	-58.05
408.30	S	Peak	-70.55	-71.93	3.79	-2.41	-13.00	-57.55
483.96	S	Peak	-69.40	-70.94	3.79	-2.25	-13.00	-56.40
582.90	S	Peak	-67.97	-68.54	3.36	-2.79	-13.00	-54.97
1422.00	H	Peak	-53.37	-57.82	8.37	-3.93	-13.00	-40.37
2133.00	H	Peak	-50.53	-56.26	10.54	-4.81	-13.00	-37.53
2844.00	H	Peak	-53.31	-58.94	11.32	-5.70	-13.00	-40.31

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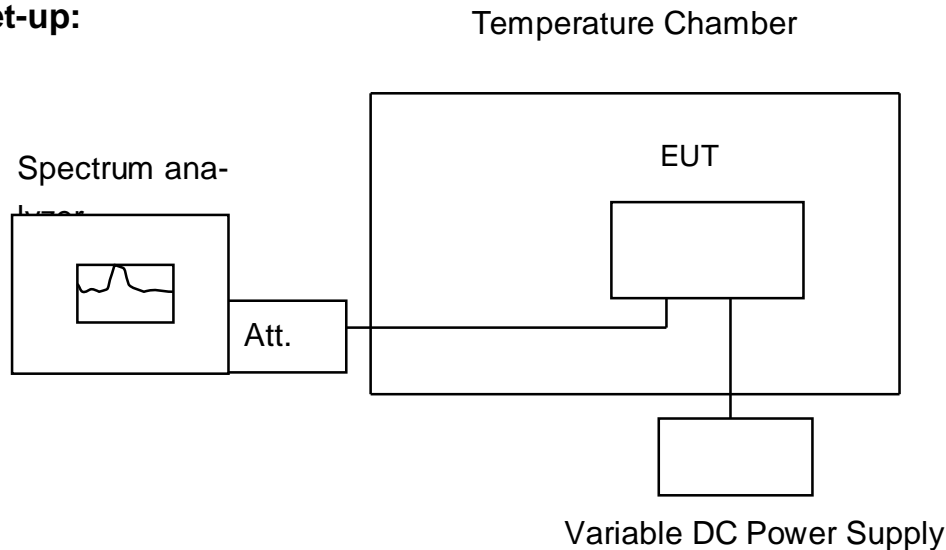
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11. FREQUENCY STABILITY MEASUREMENT

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:



Note: Measurement setup for testing on Antenna connector

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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:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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	HU-BER+SUHNER	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	05/17/2016	05/16/2017
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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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.80	20	1880000006	-2	4700
7.70	20	1880000008	0	4700
6.50	20	1879999999	-9	4700
6.0 (End point)	20	1879999998	-10	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.7	50	1880000006	-2	4700
7.7	40	1880000001	-7	4700
7.7	30	1880000003	-5	4700
7.7	20	1880000008	0	4700
7.7	10	1879999995	-13	4700
7.7	0	1880000011	3	4700
7.7	-10	1880000006	-2	4700
7.7	-20	1879999992	-16	4700
7.7	-30	1880000006	-2	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.80	20	1732600005	6	4331
7.70	20	1732599999	0	4331
6.50	20	1732600003	4	4331
6.0 (End point)	20	1732599995	-4	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.7	50	1732600002	3	4331
7.7	40	1732599995	-4	4331
7.7	30	1732599999	0	4331
7.7	20	1732599999	0	4331
7.7	10	1732600006	7	4331
7.7	0	1732600001	2	4331
7.7	-10	1732600004	5	4331
7.7	-20	1732599998	-1	4331
7.7	-30	1732600003	4	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
8.80	20	836600006	-2	2091
7.70	20	836600008	0	2091
6.50	20	836599998	-10	2091
6.0 (End Point)	20	836600003	-5	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
7.7	50	836600005	-3	2091
7.7	40	836599994	-14	2091
7.7	30	836599996	-12	2091
7.7	20	836600008	0	2091
7.7	10	836600002	-6	2091
7.7	0	836599999	-9	2091
7.7	-10	836599994	-14	2091
7.7	-20	836599995	-13	2091
7.7	-30	836600009	1	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
8.86	25	1879.999990	2.10	4700	
7.7	25	1879.999988	0.00	4700	
6.54	25	1880.000000	12.50	4700	
6 (End Point)	25	1879.999991	3.20	4700	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
7.7	-30	1880.000007	0.70	4700	
7.7	-20	1879.999999	-7.00	4700	
7.7	-10	1880.000000	-5.80	4700	
7.7	0	1879.999993	-13.40	4700	
7.7	10	1879.999992	-14.30	4700	
7.7	20	1880.000006	0.00	4700	
7.7	30	1880.000007	0.70	4700	
7.7	40	1879.999995	-11.10	4700	
7.7	50	1879.999992	-14.40	4700	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
8.86	25	1732.500004	0.70	4331	
7.7	25	1732.500003	0.00	4331	
6.54	25	1732.500013	9.50	4331	
6 (End Point)	25	1732.499995	-8.50	4331	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
7.7	-30	1732.500012	26.50	4331	
7.7	-20	1732.500014	28.40	4331	
7.7	-10	1732.499998	12.10	4331	
7.7	0	1732.500007	22.00	4331	
7.7	10	1732.500012	26.20	4331	
7.7	20	1732.499985	0.00	4331	
7.7	30	1732.500005	19.70	4331	
7.7	40	1732.500011	25.50	4331	
7.7	50	1732.499996	10.70	4331	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
8.86	25	836.500013	26.80	2091	
7.7	25	836.499986	0.00	2091	
6.54	25	836.499989	2.40	2091	
6 (End Point)	25	836.500013	26.40	2091	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
7.7	-30	836.499987	-1.20	2091	
7.7	-20	836.499996	7.80	2091	
7.7	-10	836.500013	24.90	2091	
7.7	0	836.500005	17.10	2091	
7.7	10	836.500006	17.90	2091	
7.7	20	836.499988	0.00	2091	
7.7	30	836.499987	-1.00	2091	
7.7	40	836.500000	12.60	2091	
7.7	50	836.499990	2.00	2091	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
8.86	25	2535.000009	12.00	6338	
7.7	25	2534.999997	0.00	6338	
6.54	25	2534.999993	-4.00	6338	
6 (End Point)	25	2534.999991	-5.90	6338	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
7.7	-30	2535.000014	28.50	6338	
7.7	-20	2534.999995	9.00	6338	
7.7	-10	2534.999990	4.00	6338	
7.7	0	2535.000009	22.60	6338	
7.7	10	2535.000003	16.60	6338	
7.7	20	2534.999986	0.00	6338	
7.7	30	2535.000003	16.80	6338	
7.7	40	2535.000011	25.40	6338	
7.7	50	2535.000013	26.60	6338	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
8.86	25	707.499986	-5.70	1769	
7.7	25	707.499991	0.00	1769	
6.54	25	707.499993	1.40	1769	
6 (End Point)	25	707.500002	11.00	1769	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
7.7	-30	707.499990	3.00	1769	
7.7	-20	707.500015	28.40	1769	
7.7	-10	707.500012	25.50	1769	
7.7	0	707.500015	28.10	1769	
7.7	10	707.500002	15.70	1769	
7.7	20	707.499987	0.00	1769	
7.7	30	707.499995	8.60	1769	
7.7	40	707.500011	24.70	1769	
7.7	50	707.500006	19.40	1769	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
8.86	25	710.000008	0.60	1775	
7.7	25	710.000007	0.00	1775	
6.54	25	709.999995	-12.40	1775	
6 (End Point)	25	709.999985	-22.90	1775	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
7.7	-30	710.000002	-5.10	1775	
7.7	-20	709.999990	-16.70	1775	
7.7	-10	709.999998	-9.20	1775	
7.7	0	709.999993	-14.50	1775	
7.7	10	710.000009	2.30	1775	
7.7	20	710.000007	0.00	1775	
7.7	30	709.999996	-11.00	1775	
7.7	40	710.000014	6.80	1775	
7.7	50	709.999993	-14.30	1775	

Note: The battery is rated 7.7V dc.

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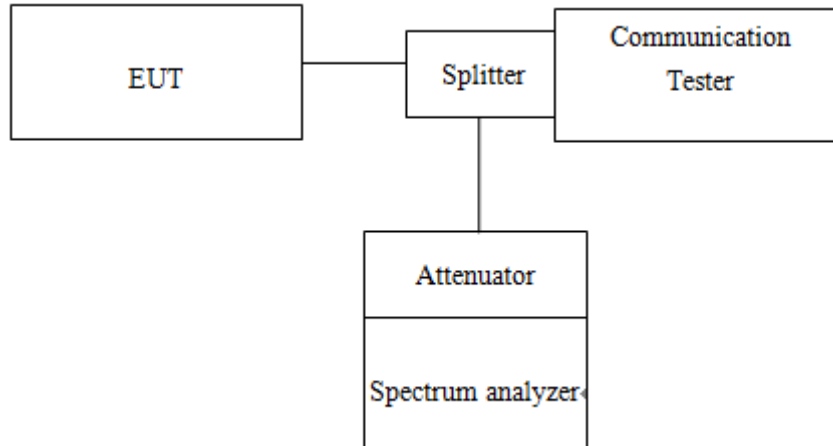
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ratio (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 \geq signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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+SÜHNER	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

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12.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.2	9262	2.87	3.98	3.93
1880.0	9400	3.14	3.91	3.95
1909.8	9538	2.90	3.86	4.05

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.70	3.66	3.79
1732.6	1413	3.13	4.02	3.98
1752.6	1513	2.81	3.90	3.84

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	2.87	4.22	4.24
836.6	4183	2.96	3.97	4.09
846.6	4233	2.96	3.97	4.25

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	5.18	13	1851.5	18615	5.56	13
1880.0	18900	5.58	13	1880.0	18900	5.91	13
1909.3	19193	4.82	13	1908.5	19185	5.44	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	5.35	13	1855.0	18650	5.57	13
1880.0	18900	5.68	13	1880.0	18900	5.83	13
1907.5	19175	5.28	13	1905.0	19150	5.59	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	5.99	13	1860.0	18700	6.58	13
1880.0	18900	6.08	13	1880.0	18900	6.66	13
1902.5	19125	6.25	13	1900.0	19100	6.71	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	6.20	13	1711.5	19965	6.41	13
1732.5	20175	5.98	13	1732.5	20175	6.27	13
1754.3	20393	6.23	13	1753.5	20385	6.50	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	6.33	13	1715.0	20000	6.37	13
1732.5	20175	5.95	13	1732.5	20175	6.08	13
1752.5	20375	6.29	13	1750.0	20350	6.30	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	6.35	13	1720.0	20050	6.81	13
1732.5	20175	6.23	13	1732.5	20175	6.72	13
1747.5	20325	6.26	13	1745.0	20300	6.88	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	5.56	13	825.5	20415	5.70	13
836.5	20525	5.90	13	836.5	20525	6.17	13
848.3	20643	5.47	13	847.5	20635	5.53	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	5.31	13	829.0	20450	5.07	13
836.5	20525	6.06	13	836.5	20525	5.96	13
846.5	20625	5.46	13	844.0	20600	5.80	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2502.5	20775	6.30	13	2505.0	20800	6.33	13
2535.0	21100	6.15	13	2535.0	21100	6.20	13
2567.5	21425	5.68	13	2565.0	21400	5.84	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2507.5	20425	6.24	13	2510.0	20850	6.74	13
2535.0	20525	6.34	13	2535.0	21100	6.76	13
2562.5	20625	6.06	13	2560.0	21350	6.78	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
699.7	23017	6.07	13	700.5	23025	6.21	13
707.5	23095	5.64	13	707.5	23095	5.70	13
715.3	23173	4.87	13	714.5	23165	5.67	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
701.5	23035	6.03	13	704.0	23060	6.14	13
707.5	23095	5.50	13	707.5	23095	5.97	13
713.5	23155	5.79	13	711.0	23130	5.74	13

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
706.5	23755	5.13	13	709.0	23780	5.79	13
710.0	23790	5.64	13	710.0	23790	5.66	13
713.5	23825	5.85	13	711.0	23780	5.59	13

Measurement Results:

Please refer to next page.

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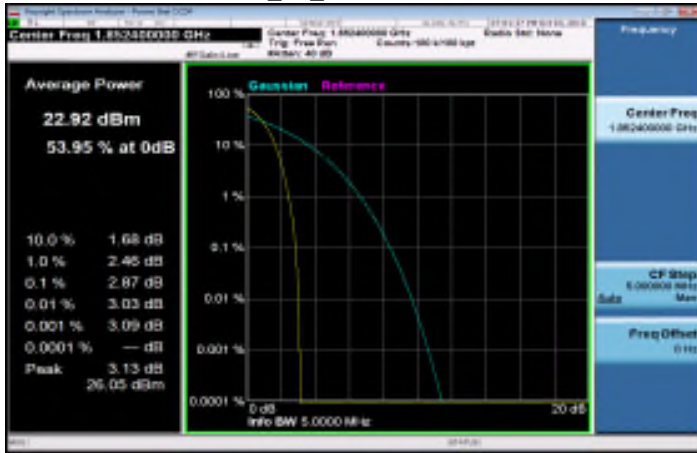
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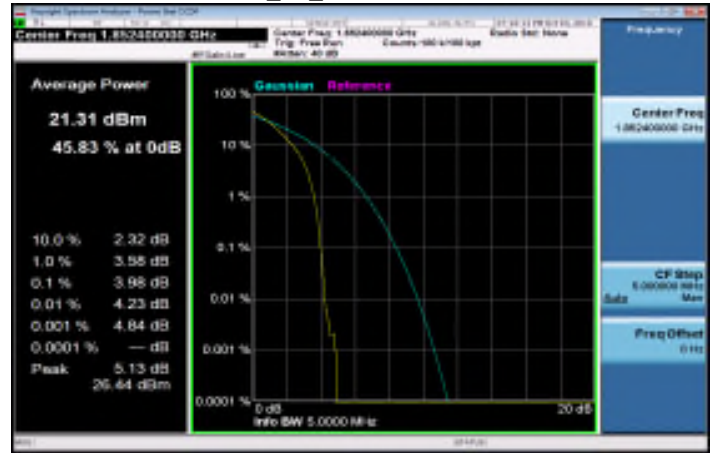
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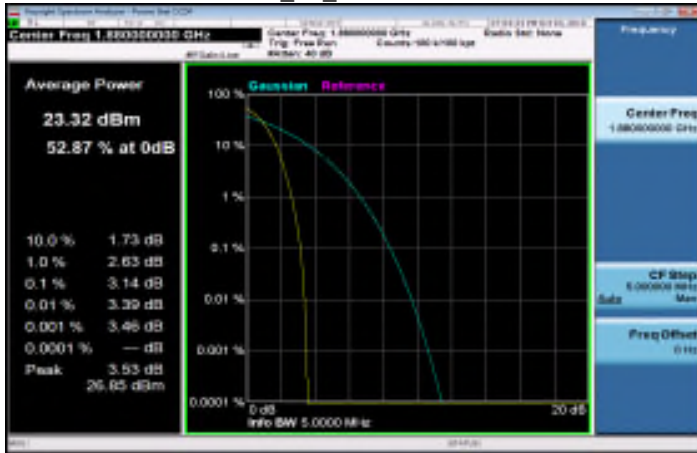
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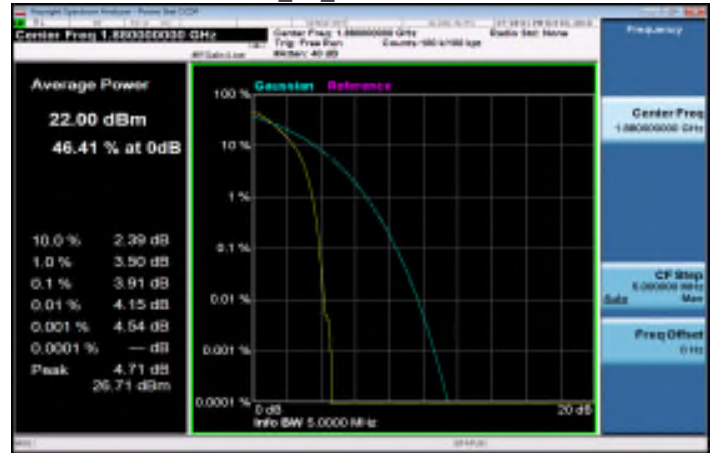
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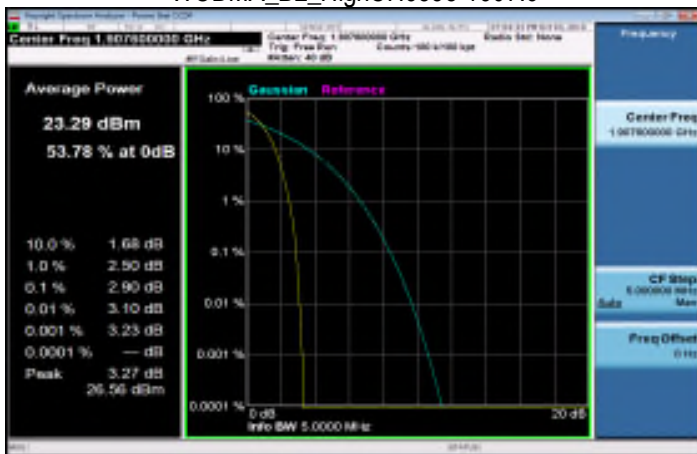
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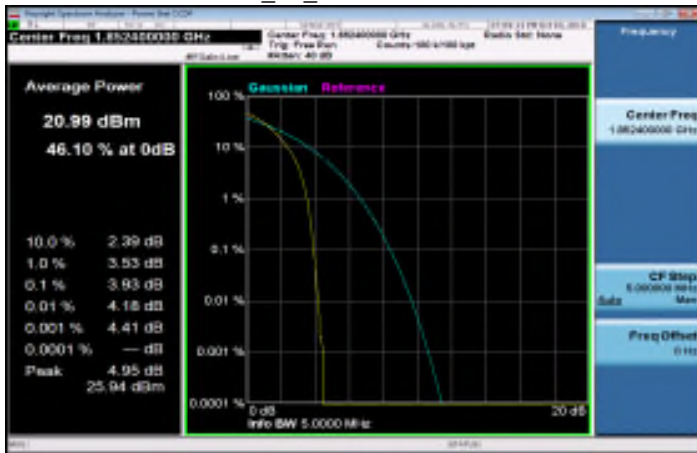
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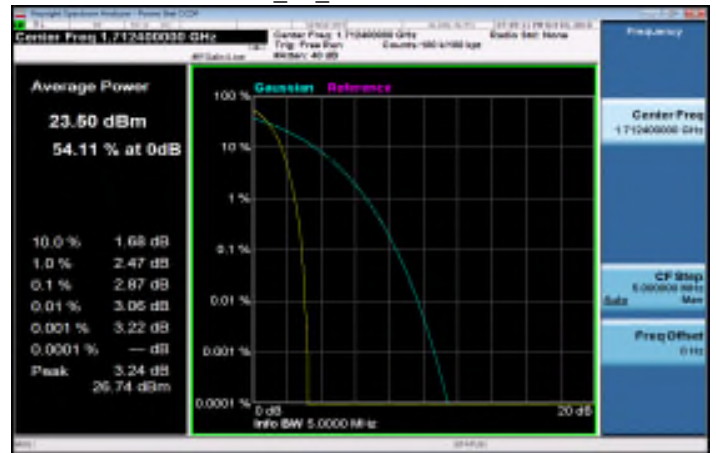
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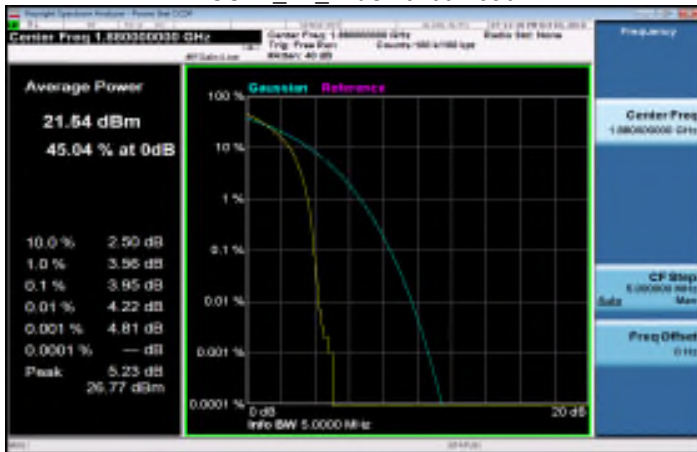
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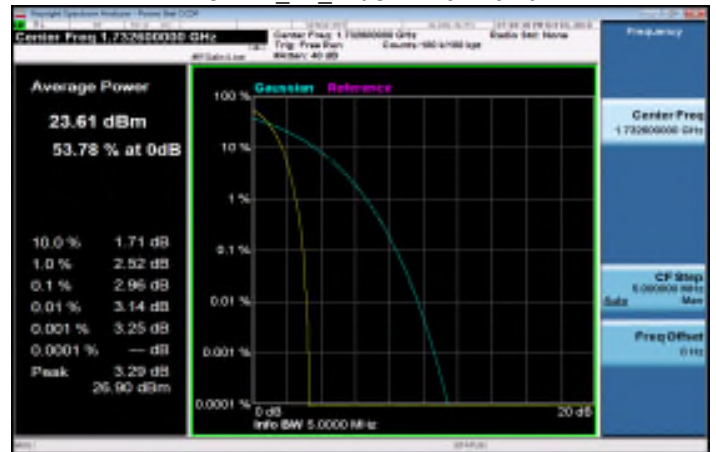
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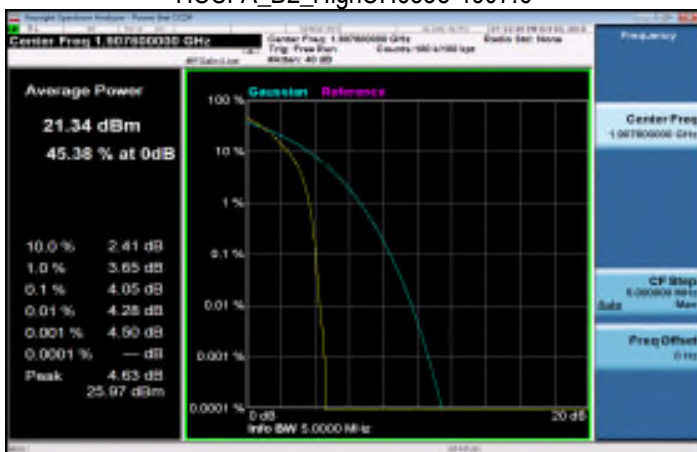
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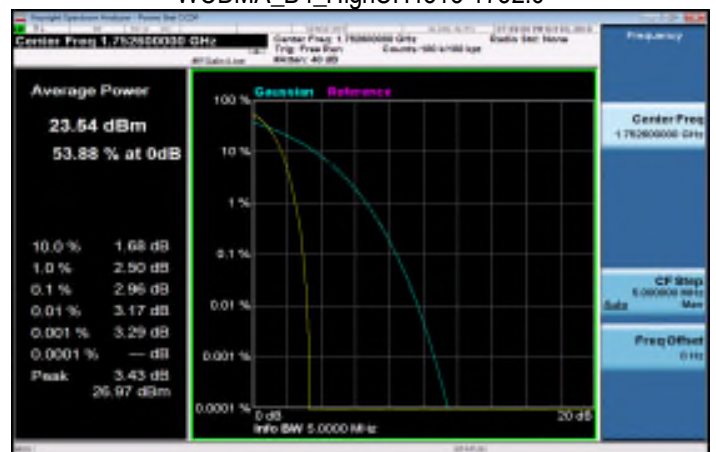
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WCDMA_B4_HighCH1513-1752.6



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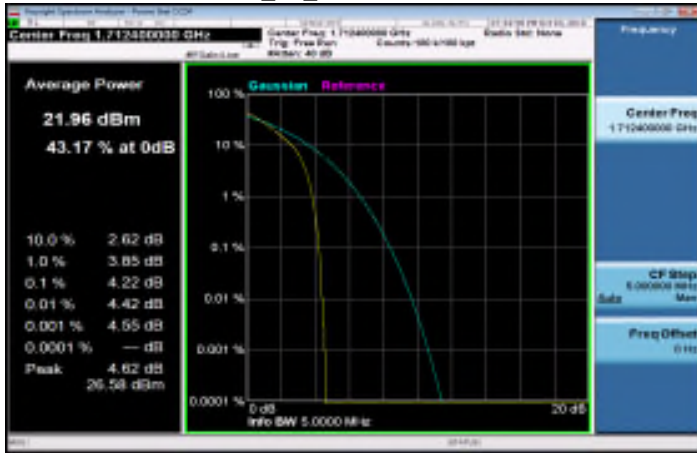
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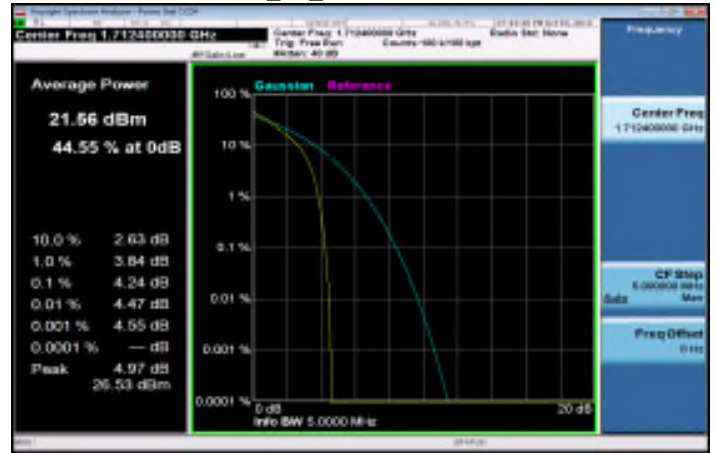
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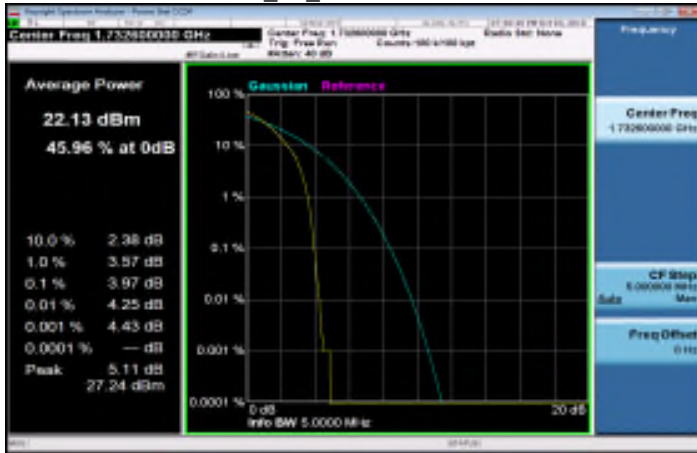
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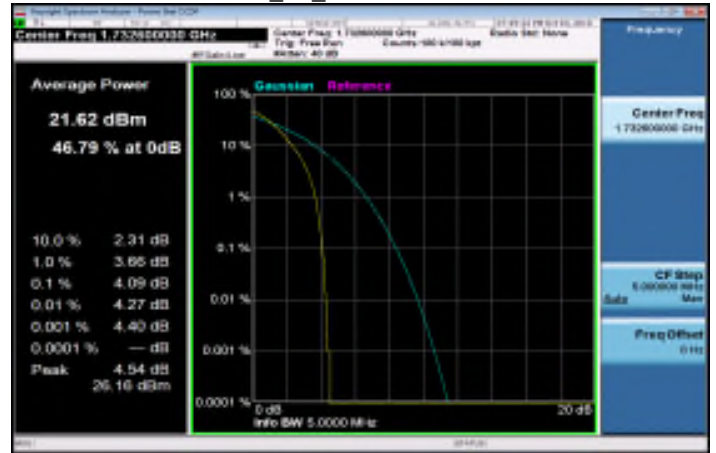
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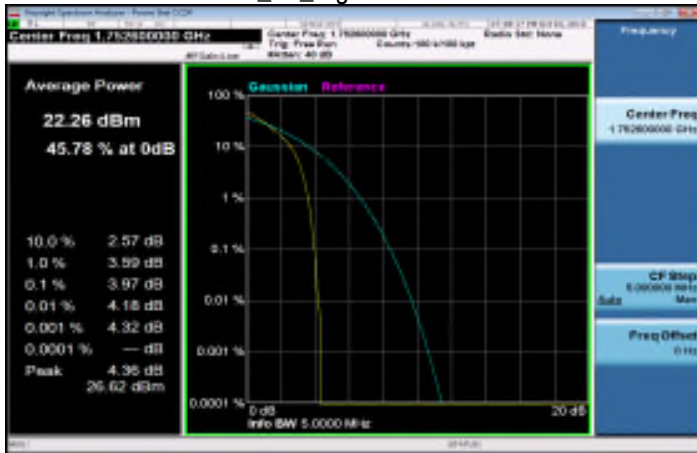
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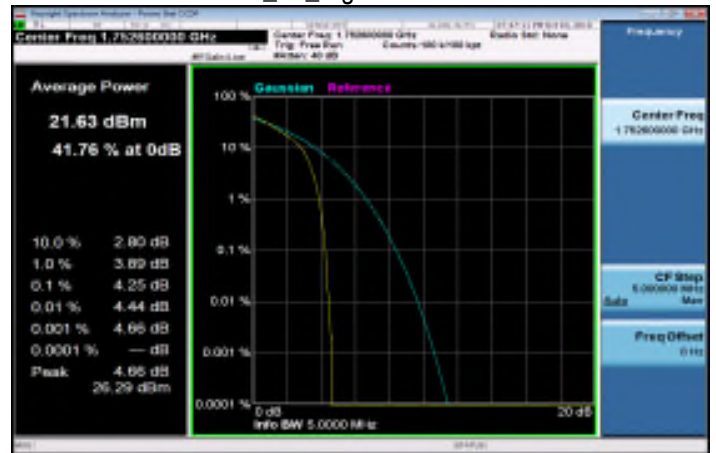
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HSDPA_B4_HighCH1513-1752.6



HSUPA_B4_HighCH1513-1752.6



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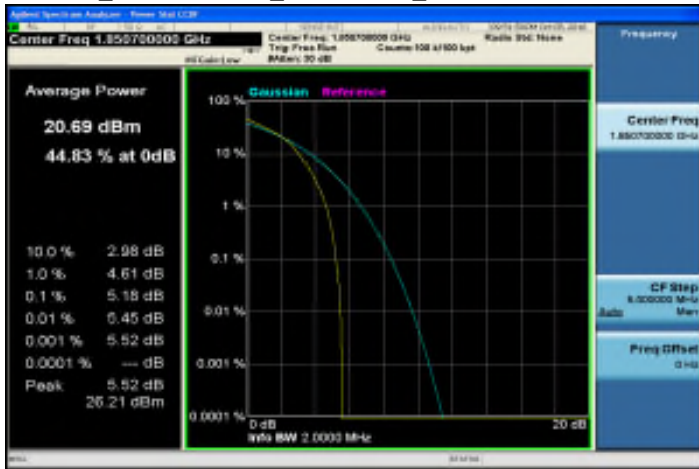
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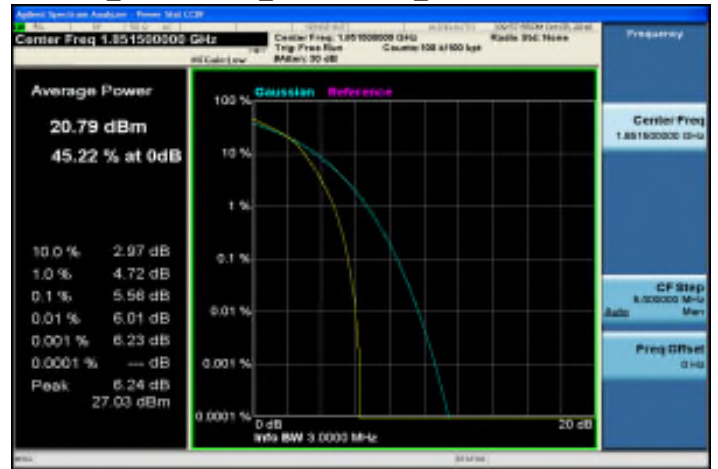
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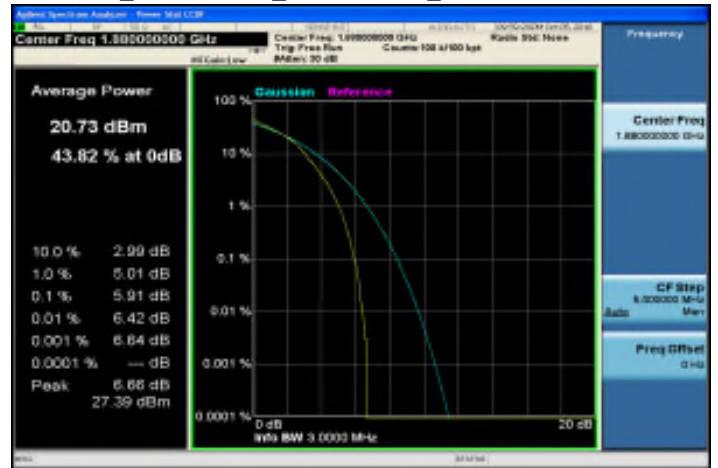
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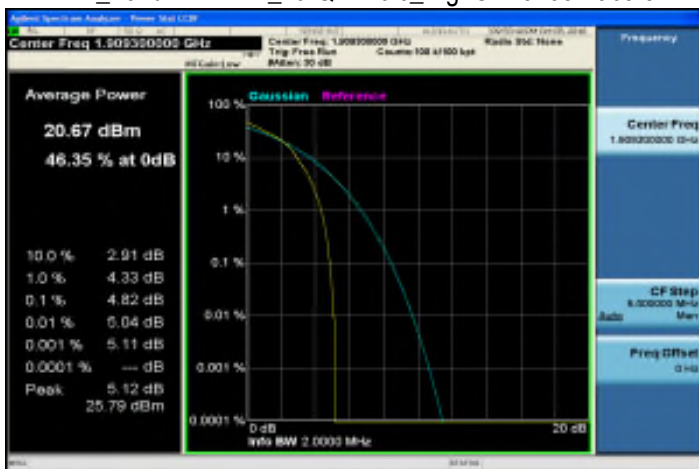
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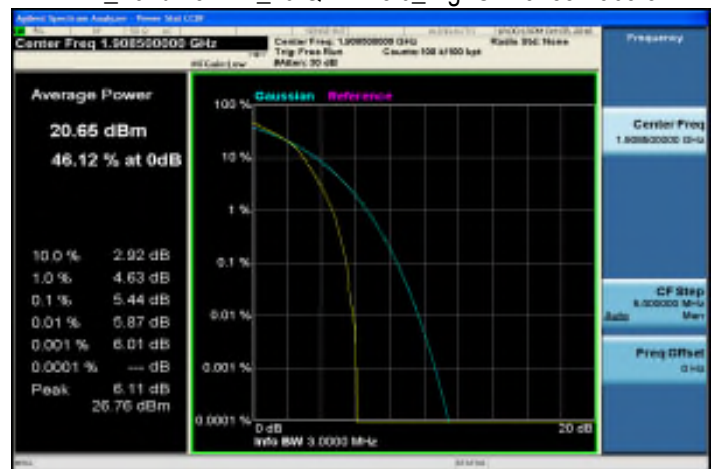
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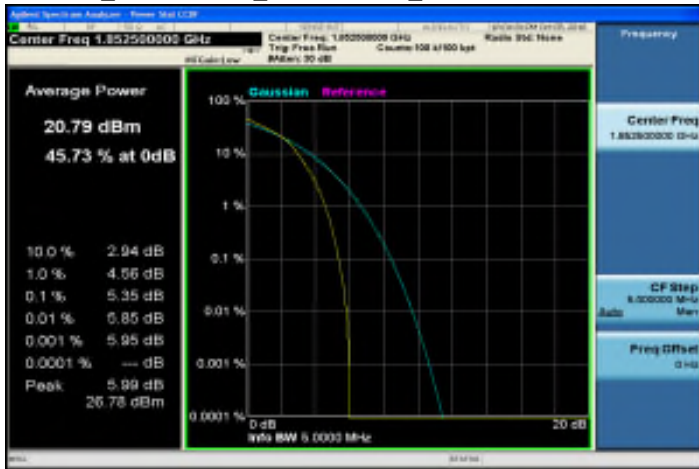
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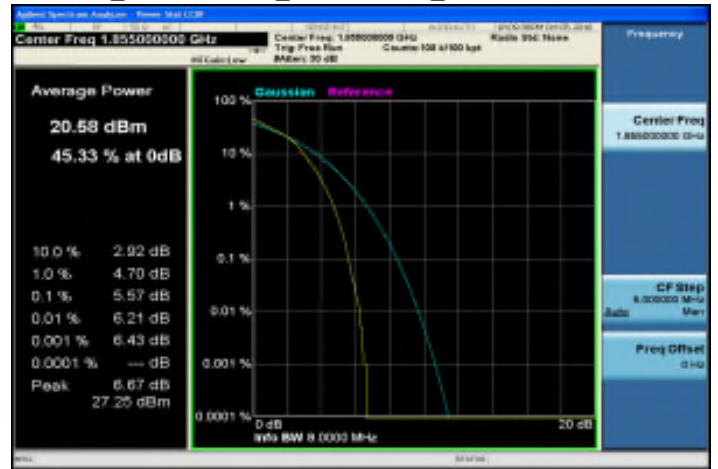
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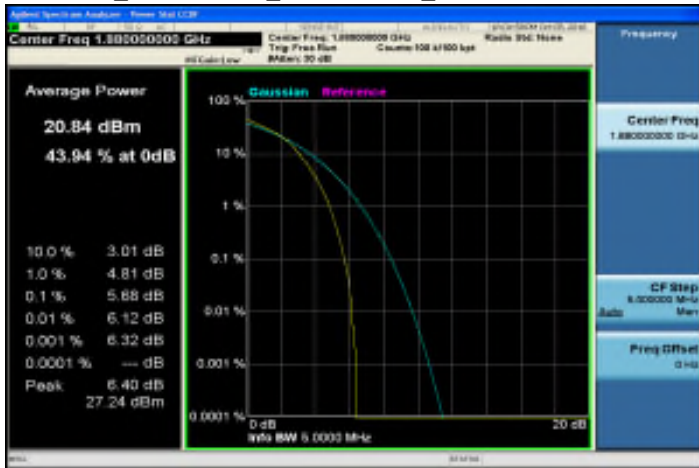
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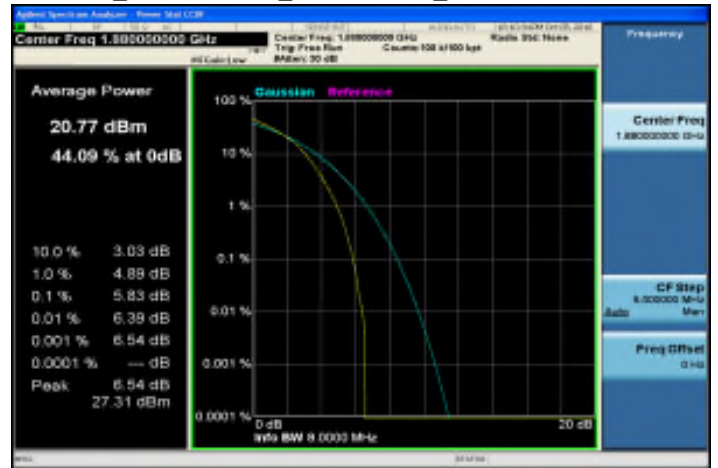
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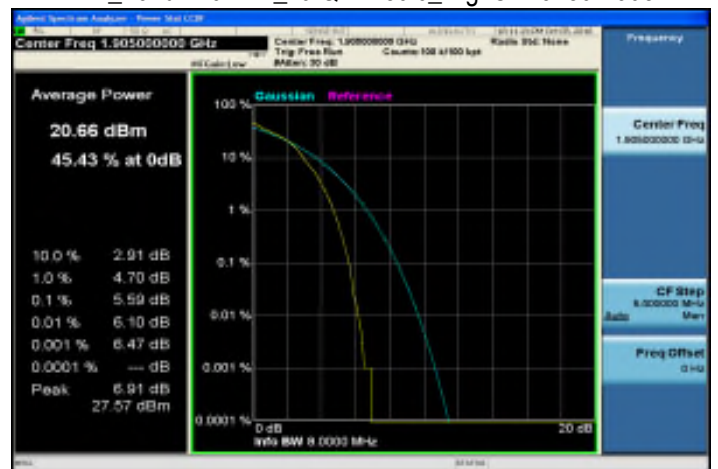
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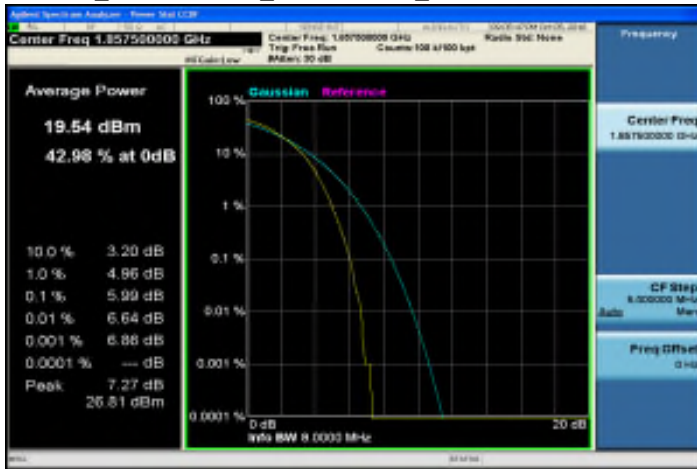
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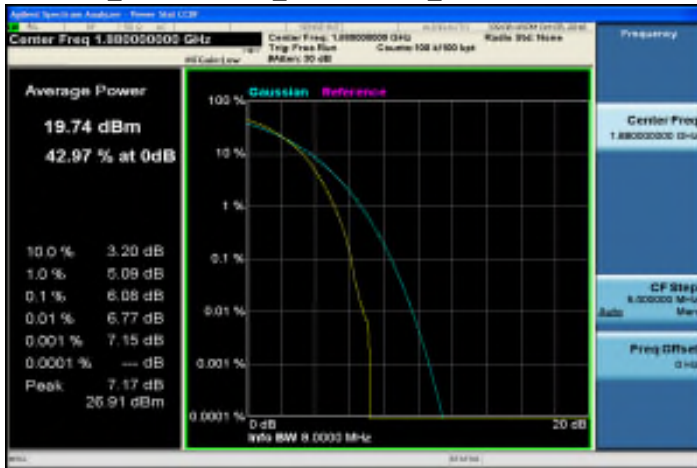
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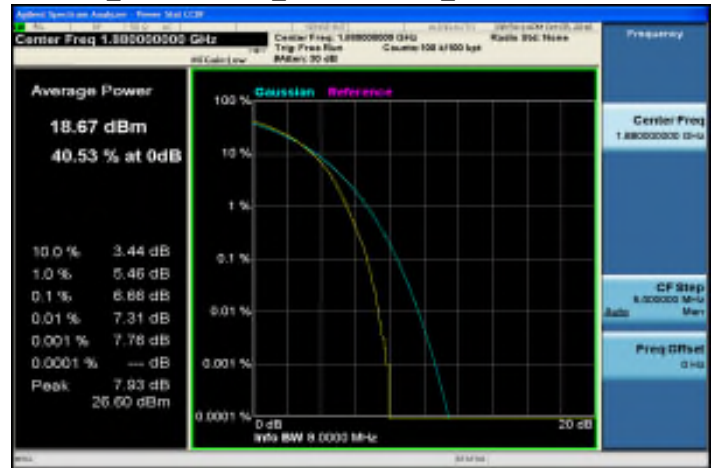
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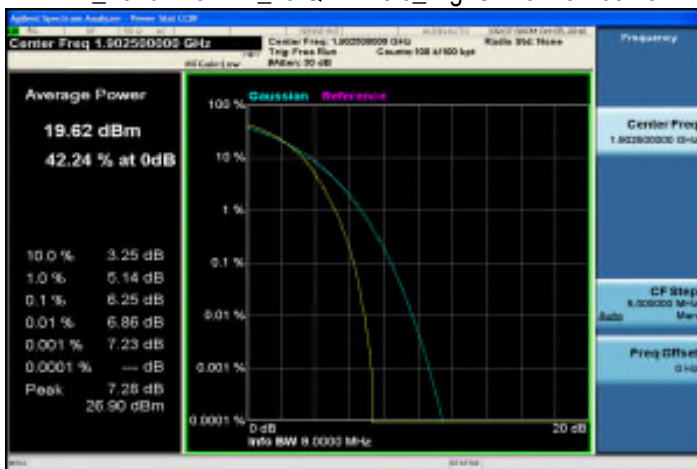
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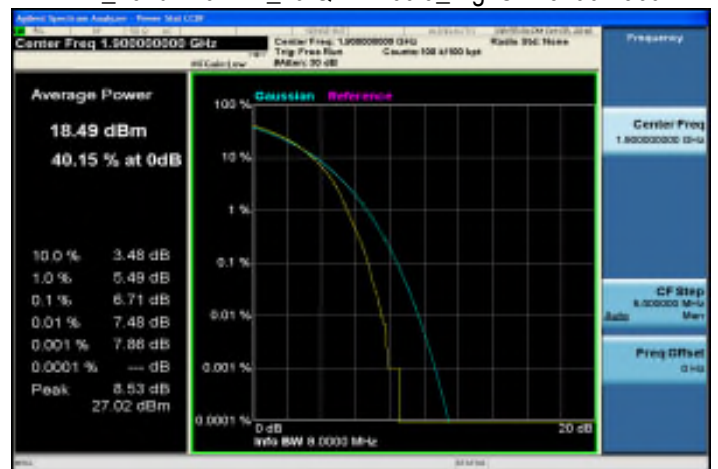
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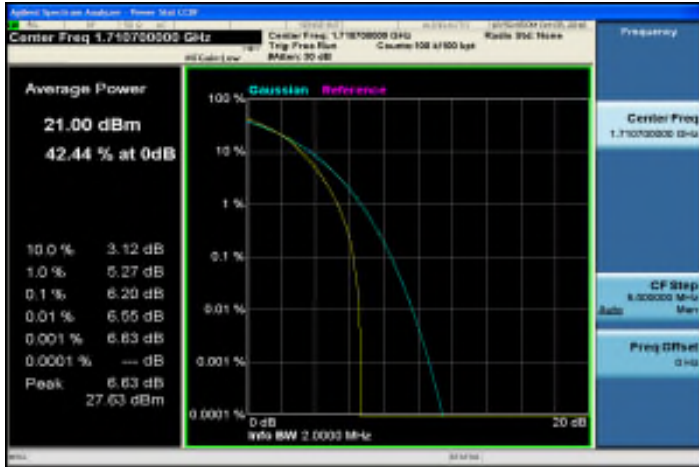
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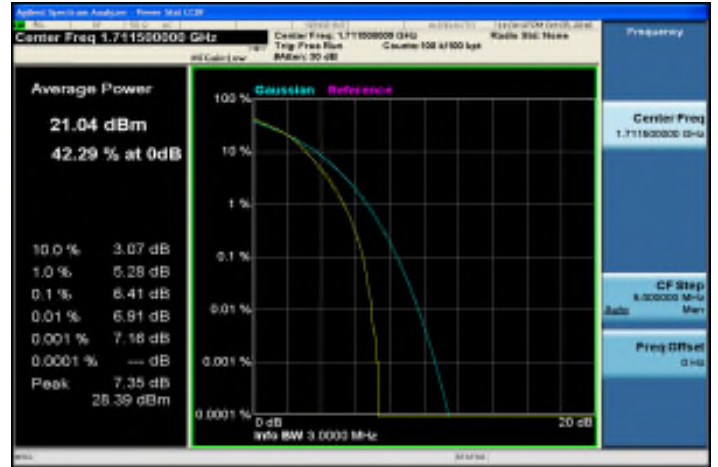
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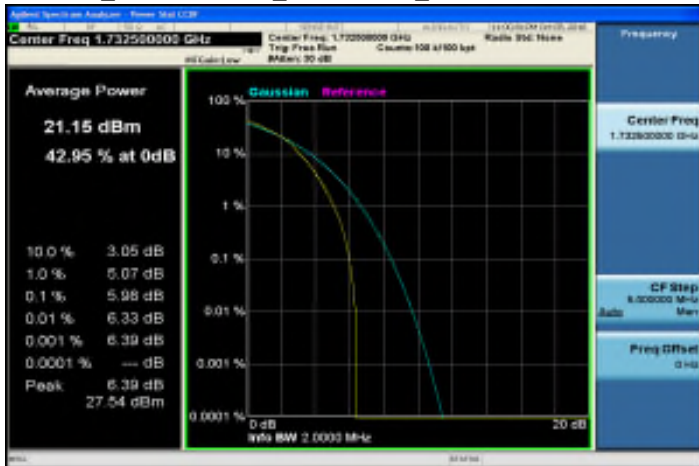
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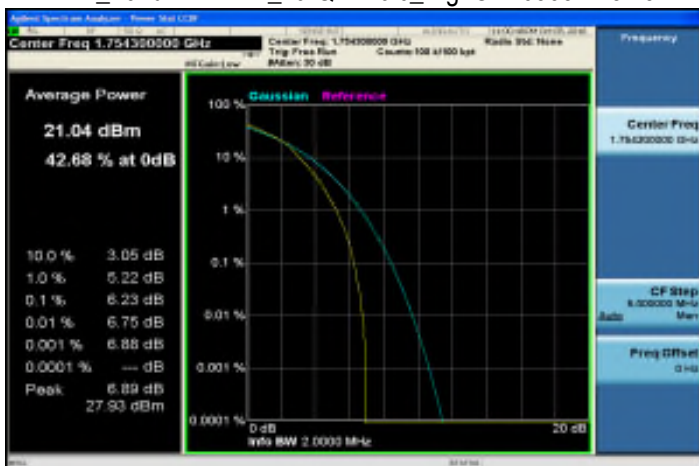
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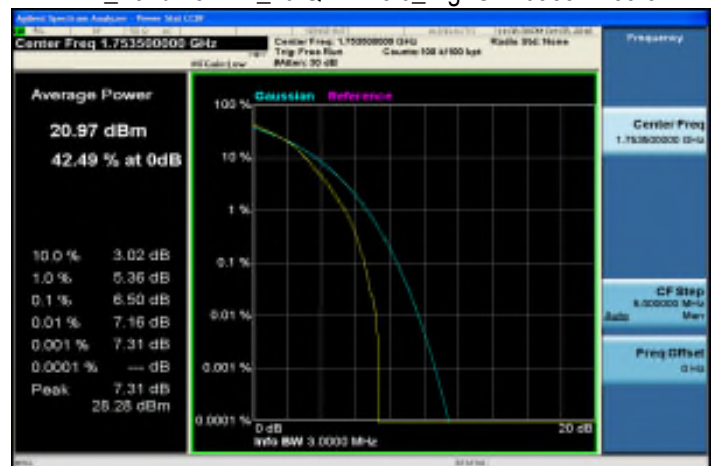
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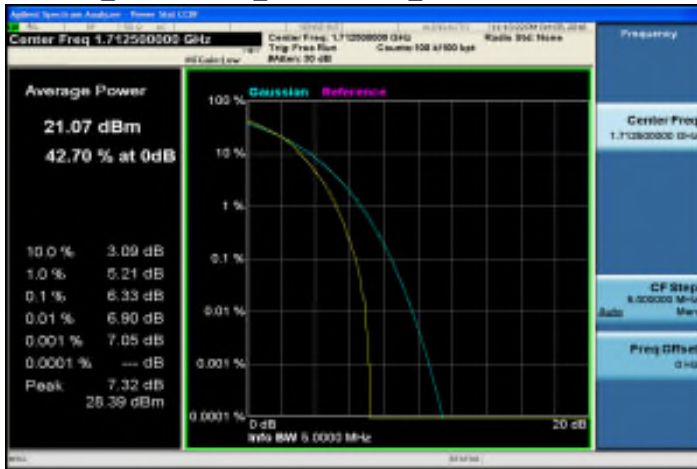
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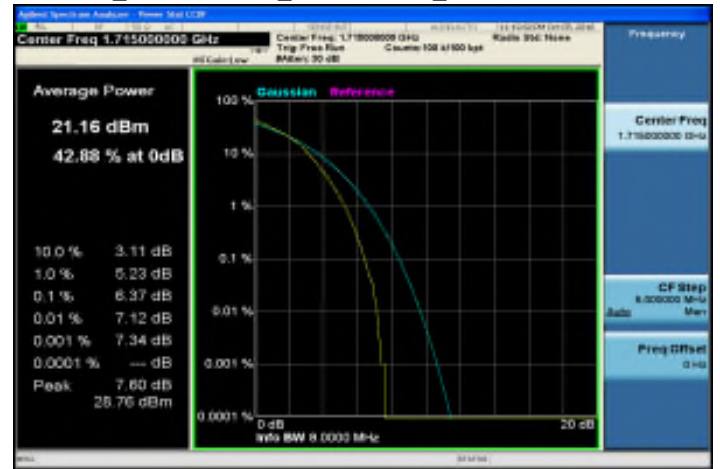
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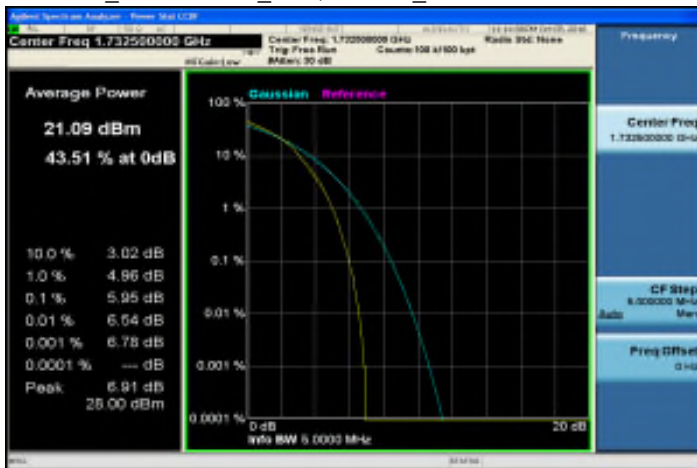
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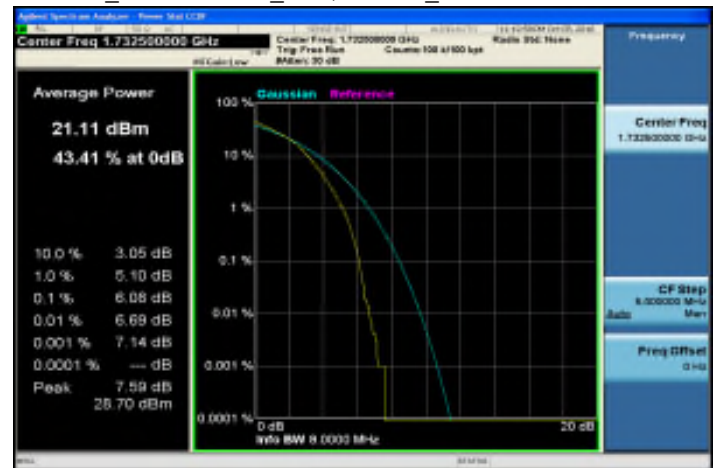
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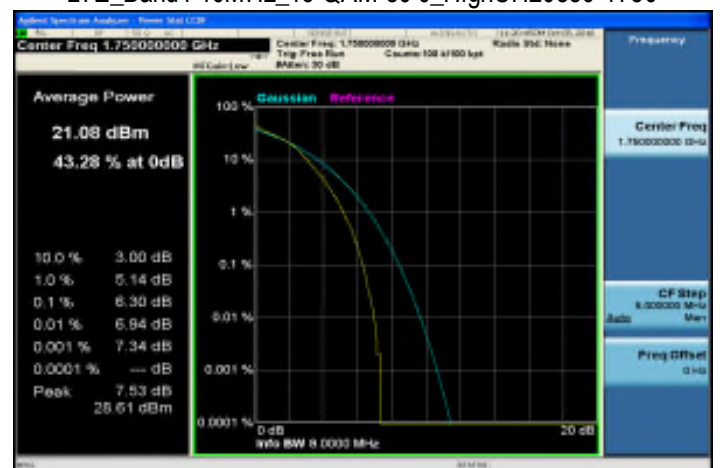
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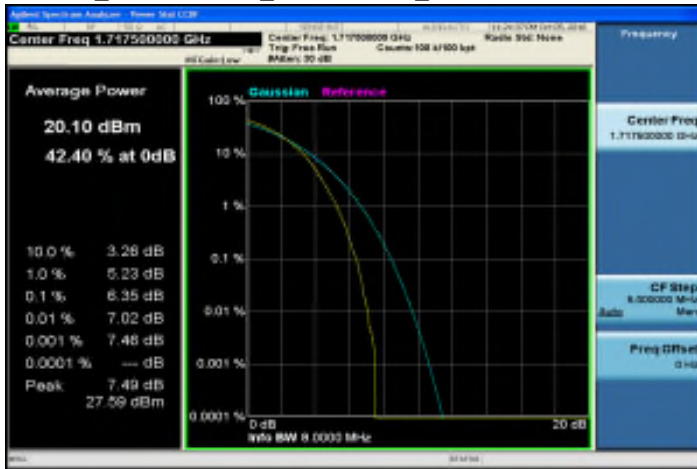
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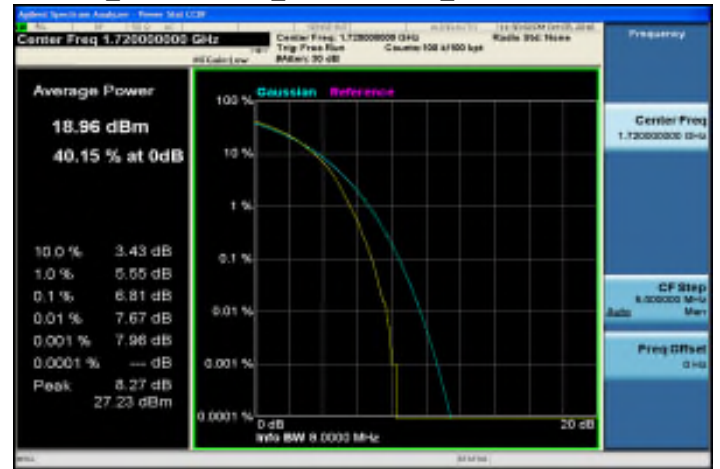
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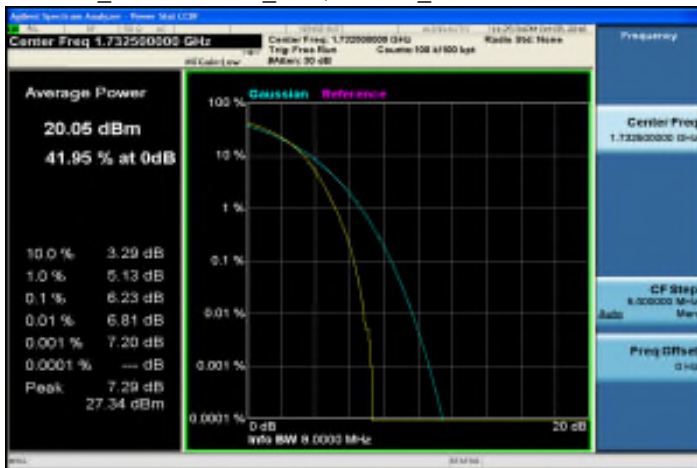
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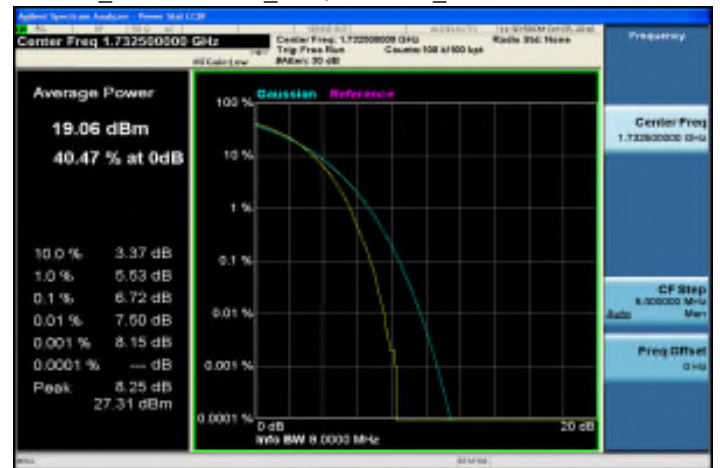
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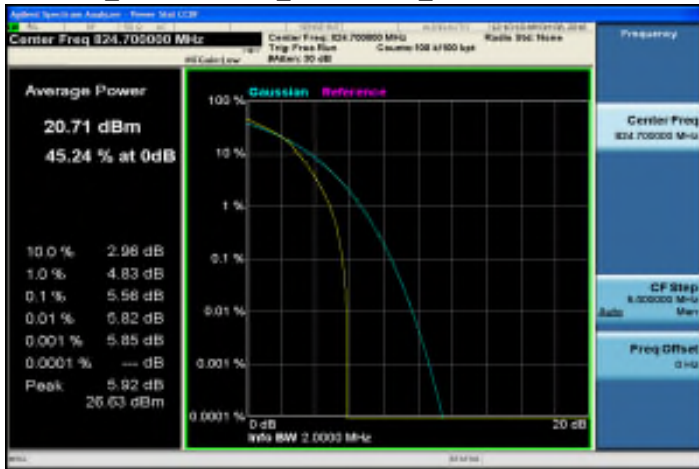
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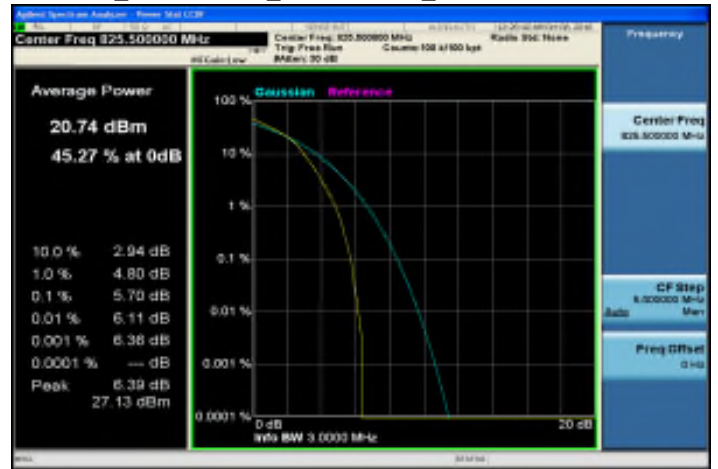
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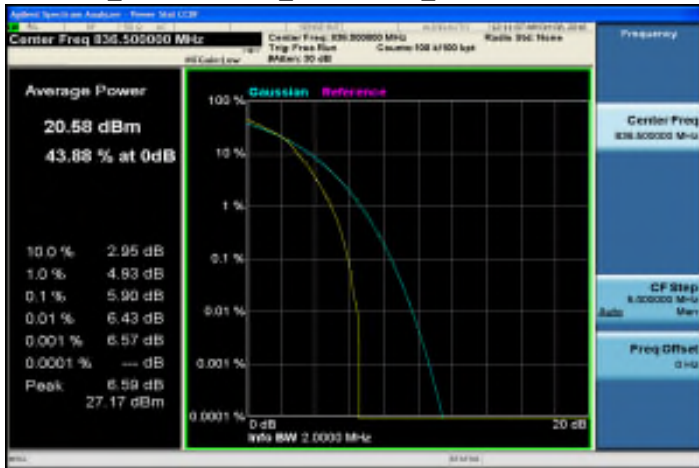
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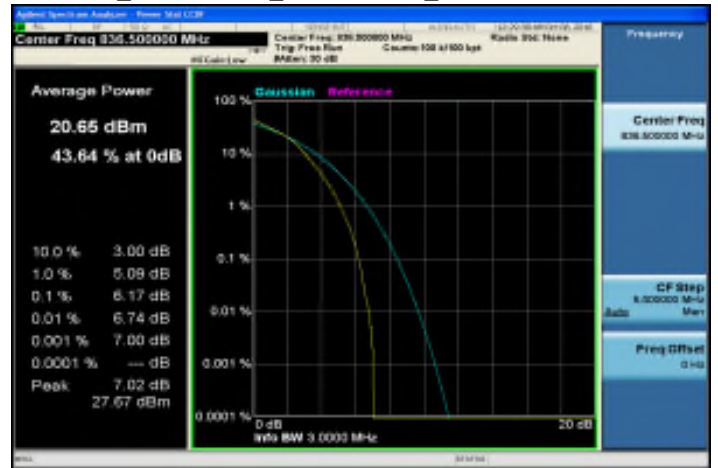
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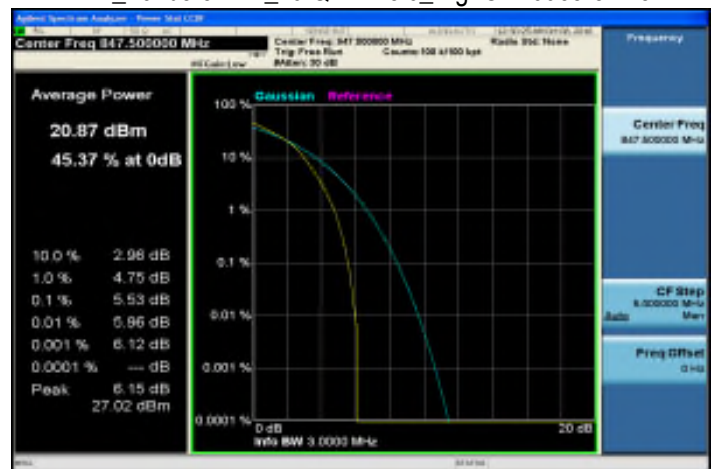
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LTE_Band5 3MHz_16-QAM 15_0_HighCH20635-847.5



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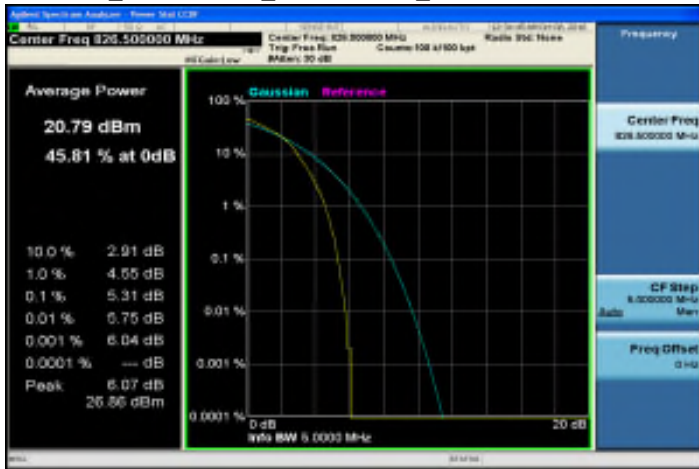
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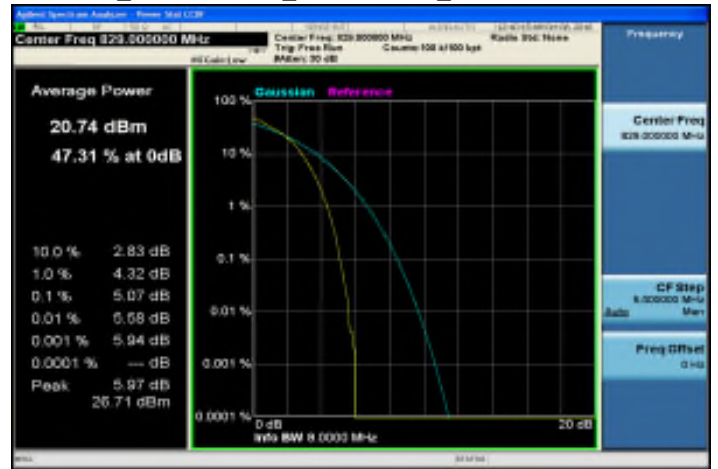
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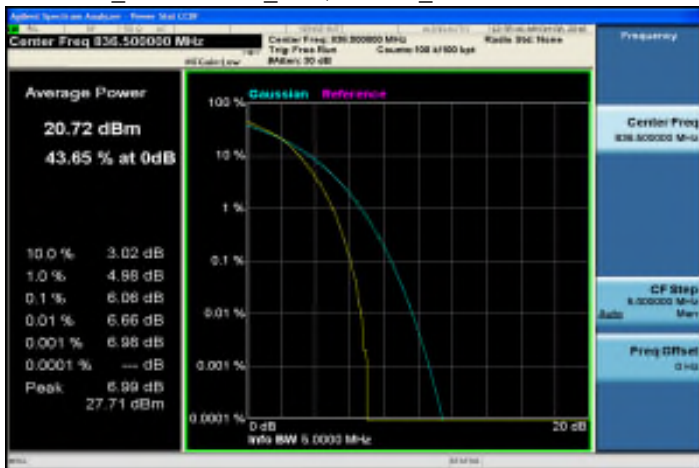
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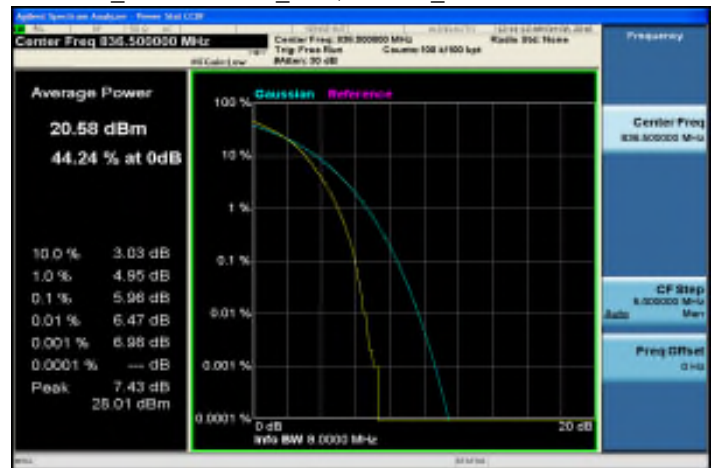
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LTE_Band5 10MHz_16-QAM 50 0_HighCH20600-844



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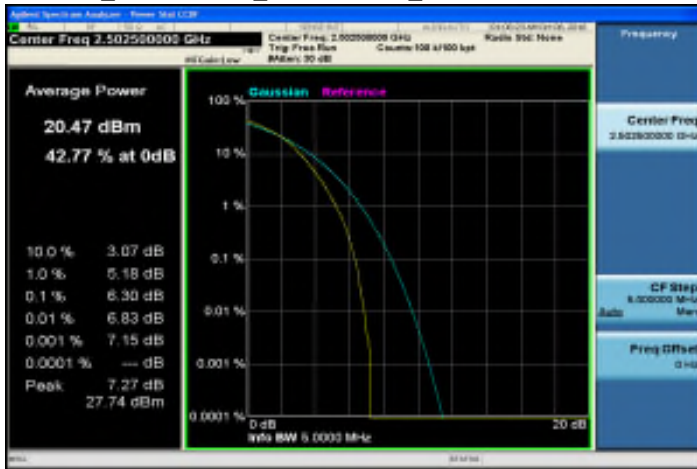
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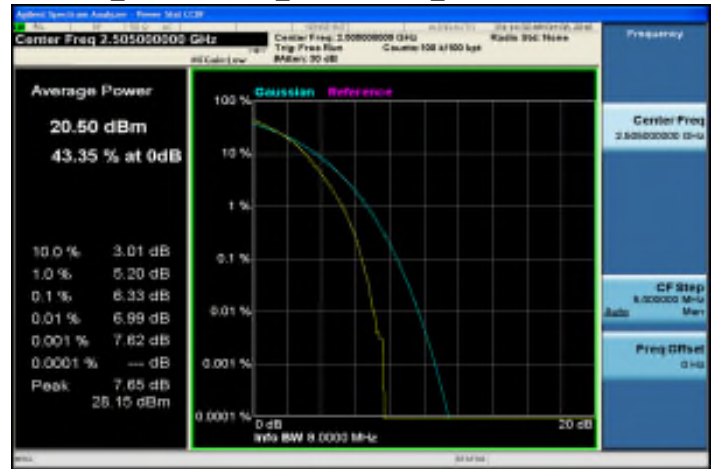
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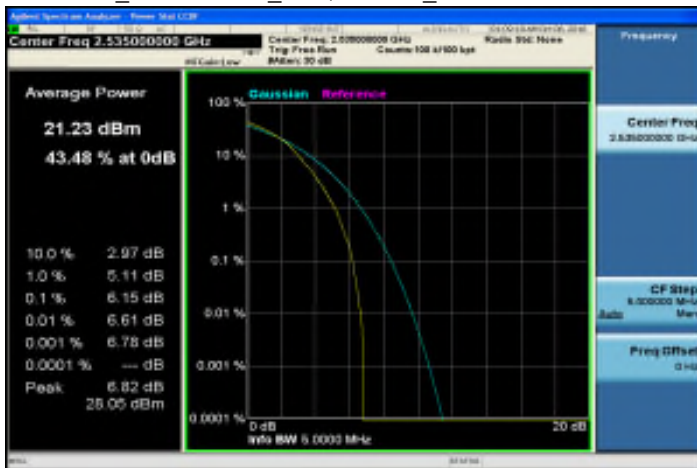
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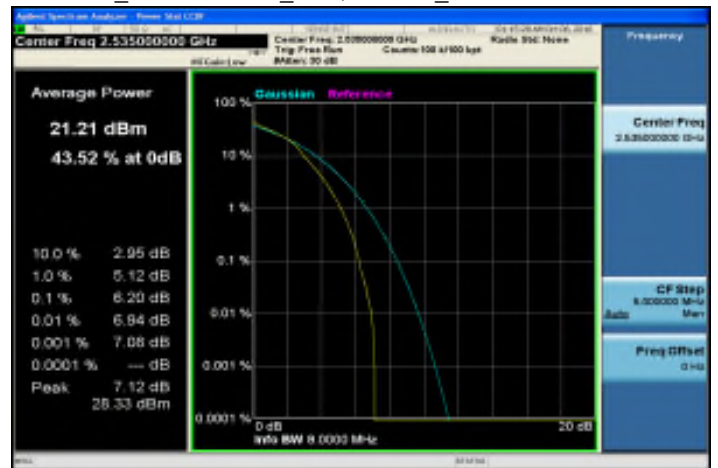
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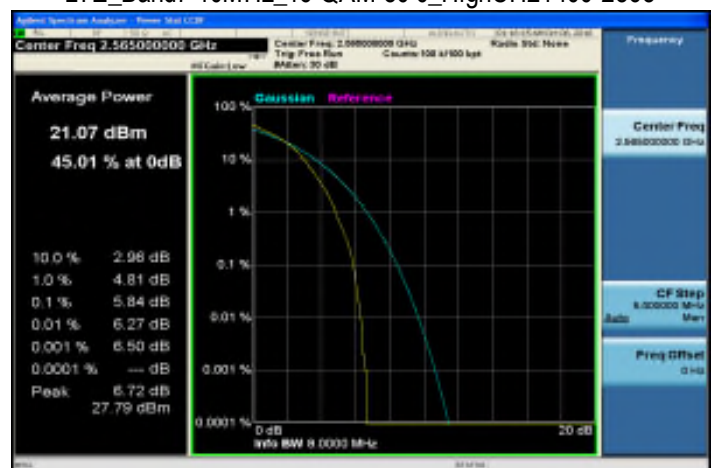
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LTE_Band7 5MHz_16-QAM 25 0_HighCH21425-2567.5



LTE_Band7 10MHz_16-QAM 50 0_HighCH21400-2565



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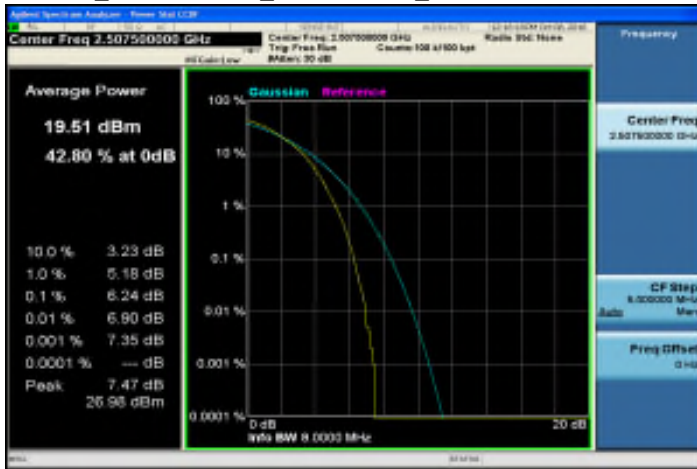
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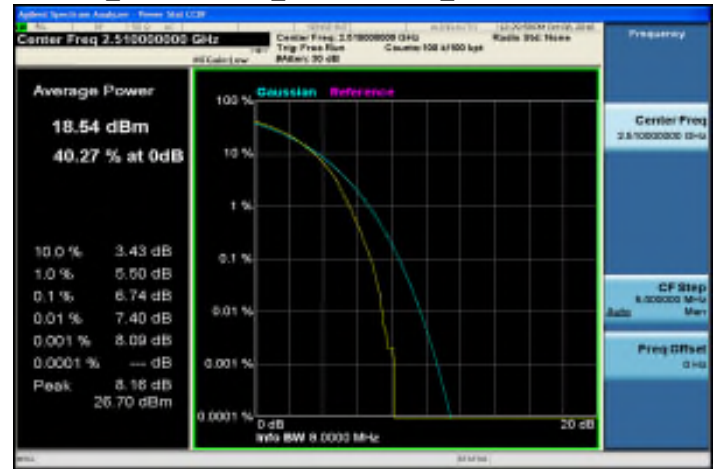
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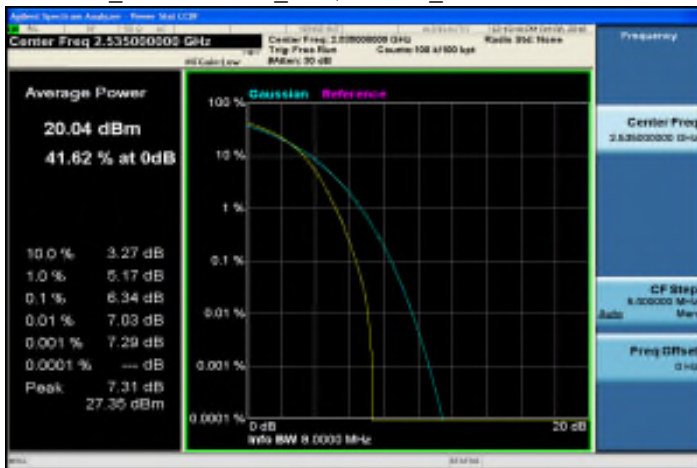
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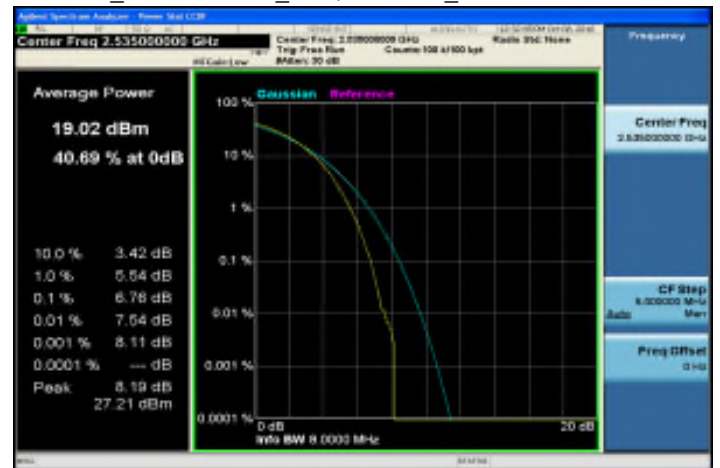
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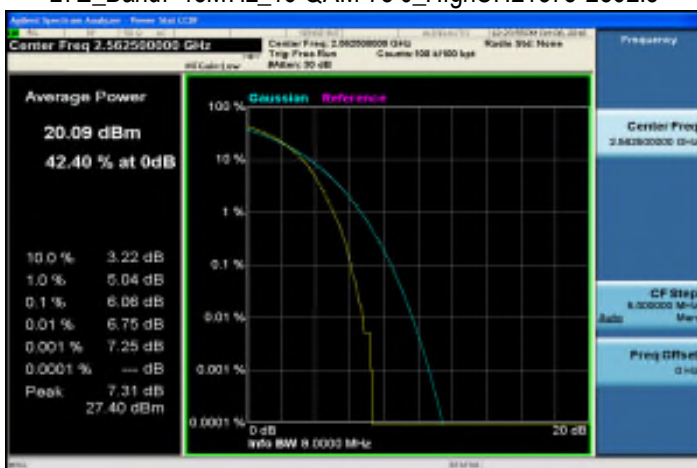
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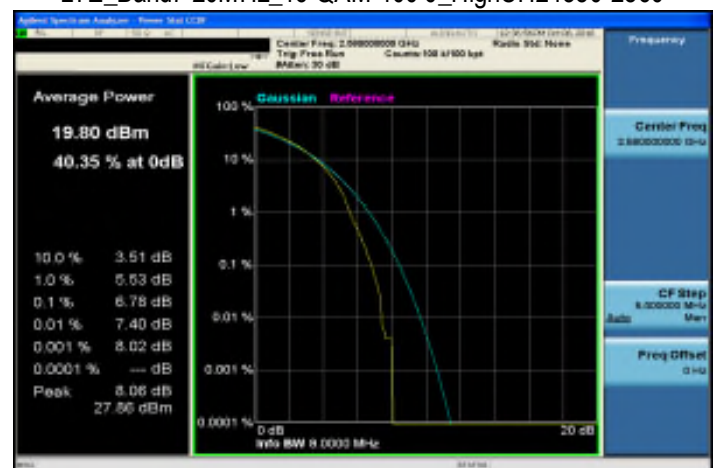
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LTE_Band7 15MHz_16-QAM 75 0_HighCH21375-2562.5



LTE_Band7 20MHz_16-QAM 100 0_HighCH21350-2560



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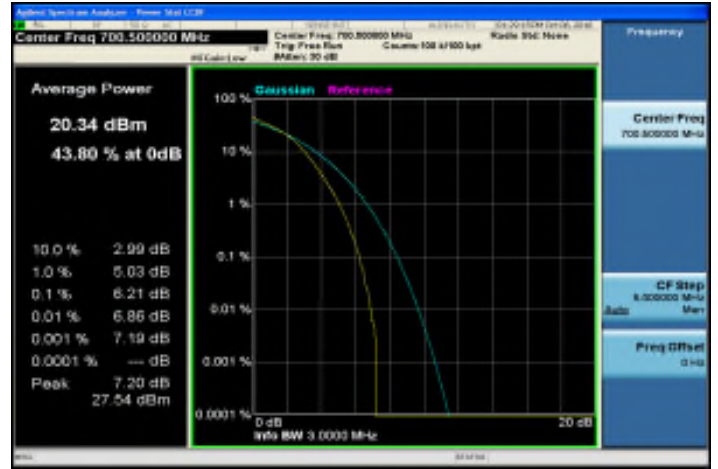
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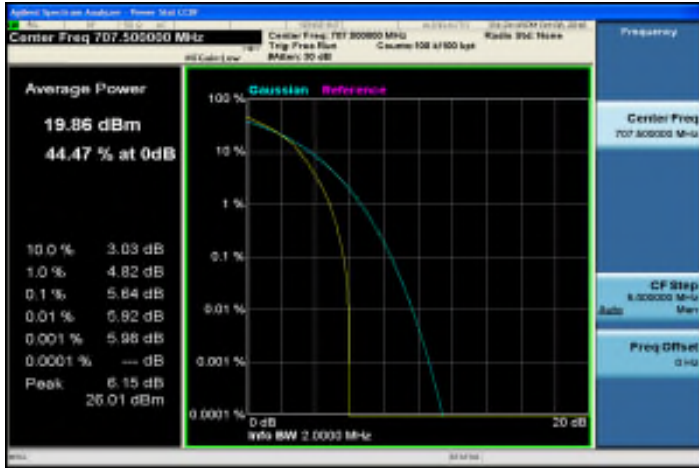
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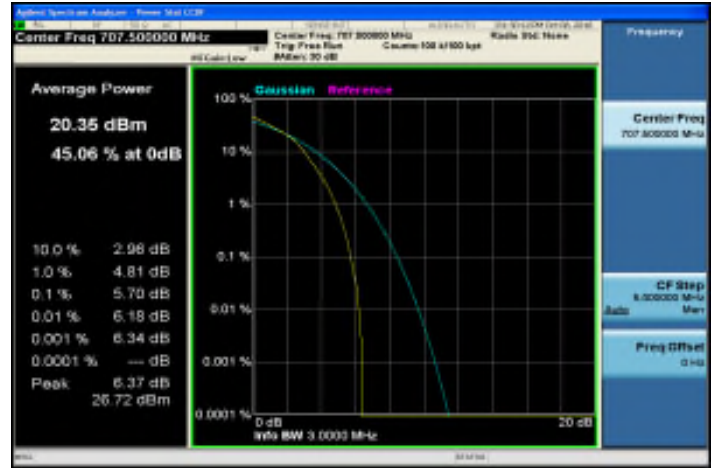
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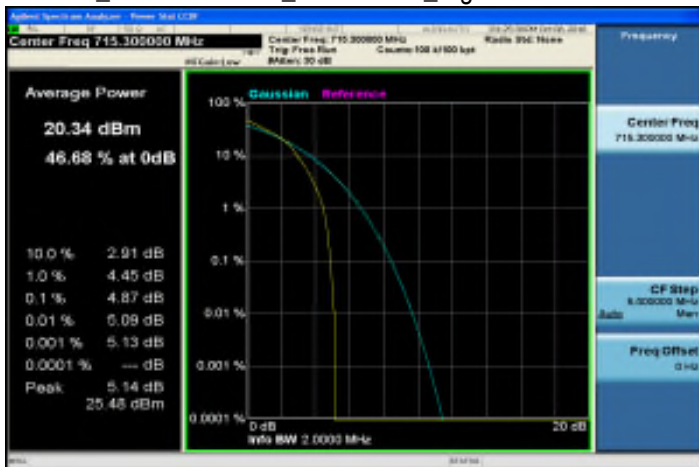
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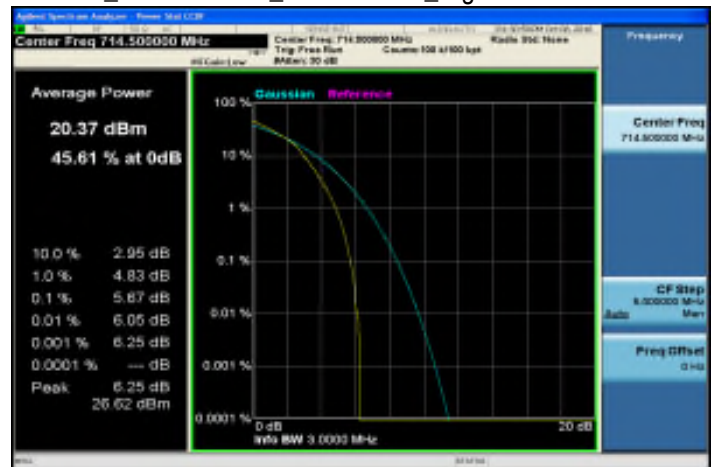
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LTE_Band12 1.4MHz_16-QAM 6 0_HighCH23173-715.3



LTE_Band12 3MHz_16-QAM 15 0_HighCH23165-714.5



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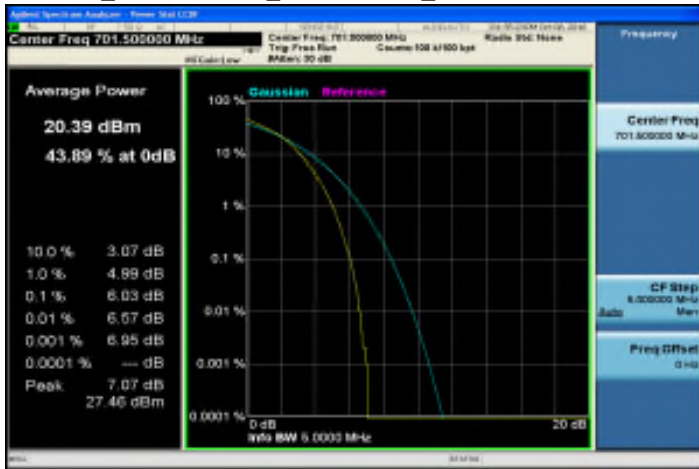
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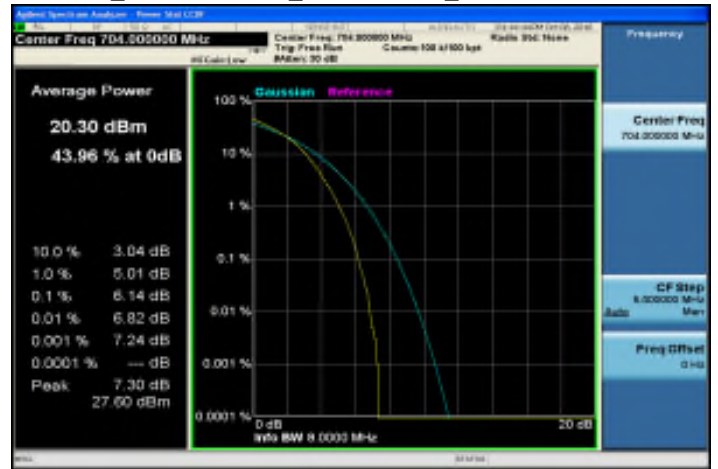
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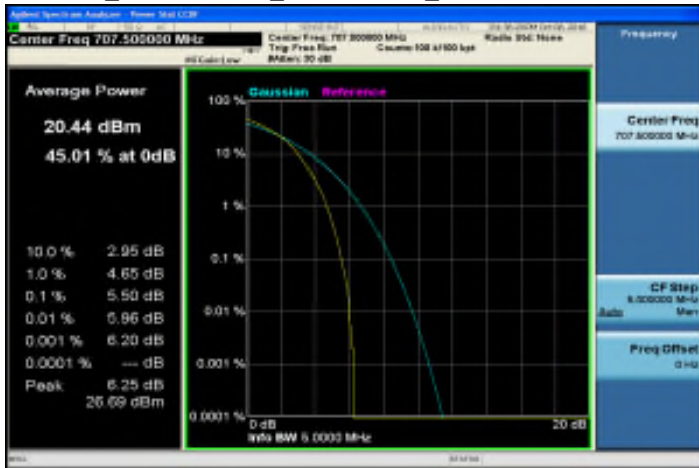
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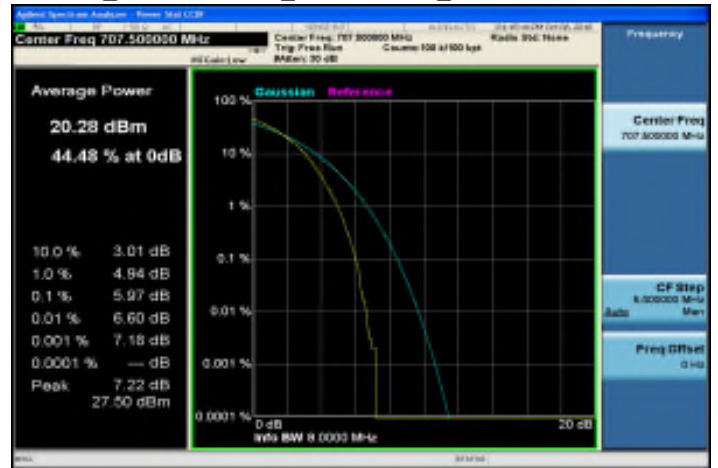
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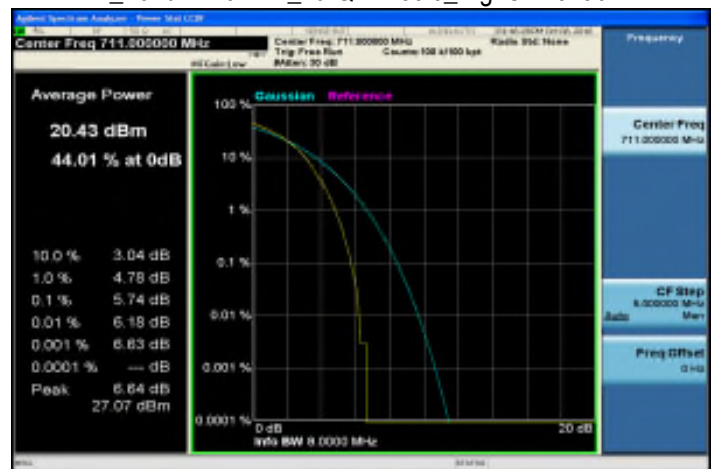
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LTE_Band12 10MHz_16-QAM 50_0_HighCH23130-711



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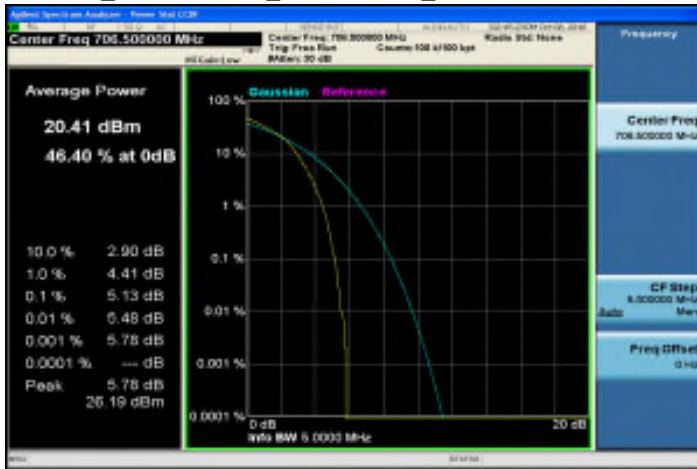
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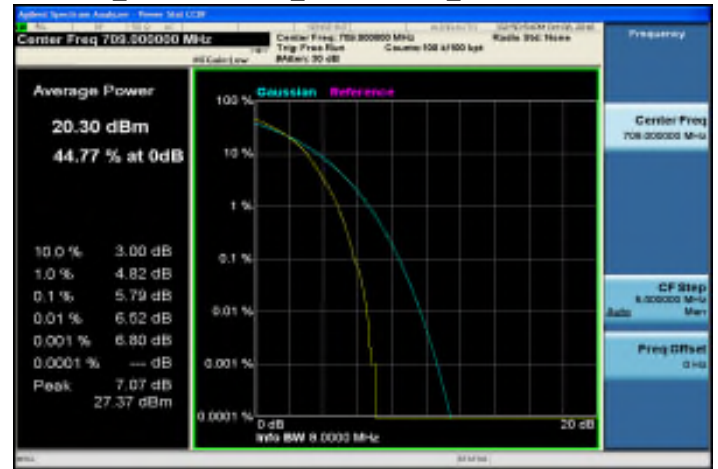
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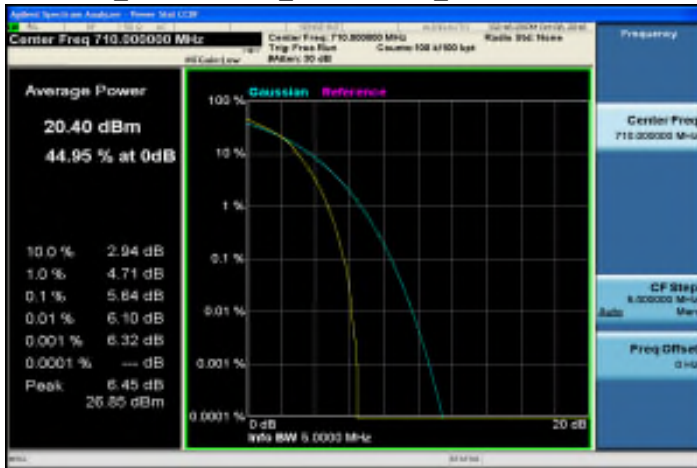
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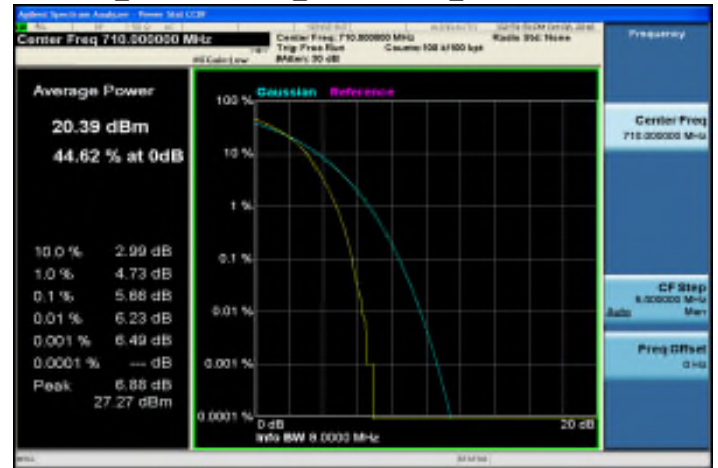
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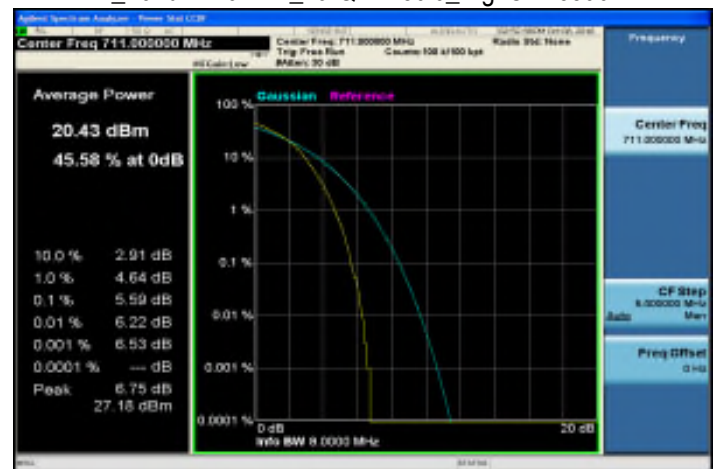
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LTE_Band17 10MHz_16-QAM 50_0_HighCH23800-711



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