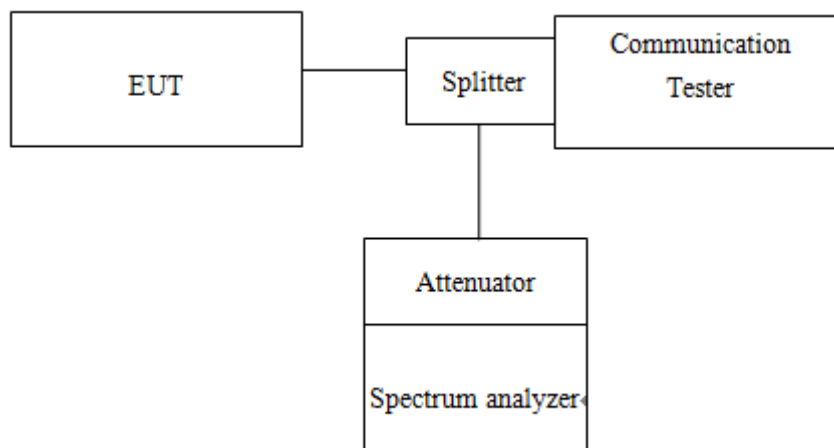


11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

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

11.2. Test SET-UP



11.3. 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.

11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyser	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25

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11.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.13	3.12	3.11
1880	9400	2.64	2.65	2.63
1907.6	9538	2.72	2.75	2.76

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.88	2.89	2.90
1732.6	1413	2.47	2.48	2.48
1752.6	1513	3.09	3.06	3.07

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	4.60	13	1851.5	18615	5.12	13
1880.0	18900	5.27	13	1880.0	18900	5.58	13
1909.3	19193	3.82	13	1908.5	19185	4.38	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	5.46	13	1855.0	18650	5.67	13
1880.0	18900	5.70	13	1880.0	18900	5.81	13
1907.5	19175	5.21	13	1905.0	19150	5.44	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	5.70	13	1860.0	18700	6.05	13
1880.0	18900	5.68	13	1880.0	18900	5.88	13
1902.5	19125	5.29	13	1900.0	19100	5.53	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	5.37	13	1711.5	19965	5.67	13
1732.5	20175	5.45	13	1732.5	20175	5.76	13
1754.3	20393	5.79	13	1753.5	20385	5.97	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19957	5.82	13	1715.0	20000	6.01	13
1732.5	20175	5.81	13	1732.5	20175	5.79	13
1752.5	20375	6.01	13	1750.0	20350	5.93	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	5.79	13	1720.0	20050	5.74	13
1732.5	20175	5.60	13	1732.5	20175	5.78	13
1747.5	20325	5.56	13	1745.0	20300	5.83	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	5.30	13	825.5	20415	5.44	13
836.5	20525	5.01	13	836.5	20525	5.32	13
848.3	20643	3.90	13	847.5	20635	4.72	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	5.94	13	829.0	20450	6.12	13
836.5	20525	5.63	13	836.5	20525	5.62	13
846.5	20625	5.42	13	844.0	20600	5.74	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2502.5	20775	5.92	13	2505.0	20800	5.78	13
2535.0	21100	5.77	13	2535.0	21100	5.65	13
2567.5	21375	5.36	13	2565.0	21350	5.22	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2507.5	20825	5.67	13	2510	20850	5.85	13
2535.0	21100	5.55	13	2535	21100	5.77	13
2562.5	21375	4.84	13	2560	21350	5.42	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	4.94	13	700.5	23025	5.33	13
707.5	23095	5.76	13	707.5	23095	5.83	13
715.3	23173	5.22	13	714.5	23165	5.46	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	5.87	13	704.0	23060	6.04	13
707.5	23095	5.97	13	707.5	23095	5.94	13
713.5	23155	5.72	13	711.0	23130	5.69	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
779.5	23205	5.68	13	782.0	23230	5.41	13
782.0	23230	5.32	13				
784.5	23255	5.18	13				

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LTE BAND 14							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
790.5	23305	4.17	13	793.0	23330	4.24	13
793	23330	4.03	13				
795.5	23355	4.16	13				

LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	6.12	13	709.0	23780	5.72	13
710.0	23790	5.60	13	710.0	23790	5.68	13
713.5	23825	5.72	13	711.0	23800	5.72	13

LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	26047	5.52	13	1851.5	26055	5.64	13
1882.5	26365	5.75	13	1882.5	26365	4.81	13
1914.3	26683	4.51	13	1913.5	26675	4.90	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	26065	6.11	13	1855.0	26090	5.63	13
1882.5	26365	6.08	13	1882.5	26365	5.78	13
1912.5	26665	5.47	13	1910.0	26640	5.51	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	26115	5.26	13	1860.0	26140	5.46	13
1882.5	26365	5.46	13	1882.5	26365	5.69	13
1907.5	26615	5.36	13	1905.0	26590	5.57	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	5.20	13	815.5	26705	5.48	13
831.5	26865	4.99	13	831.5	26865	5.48	13
848.3	27033	4.15	13	847.5	27025	4.83	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	5.90	13	820.0	26750	5.84	13
831.5	26865	5.72	13	831.5	26865	5.20	13
846.5	27015	5.52	13	844.0	26990	5.44	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		64QAM	Limit				
822.5	26775	5.37	13				
831.5	26865	5.08	13				
841.5	26965	5.21	13				

LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	4.98	13	815.5	26705	5.45	13
819.0	26740	4.25	13	819	26740	4.65	13
823.3	26783	4.28	13	822.5	26775	4.67	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	5.52	13	819.0	26740	5.26	13
819.0	26740	5.16	13				
821.5	26765	5.18	13				

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LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2307.5	27685	6.90	13	2310.0	27710	6.96	13
2310.0	27710	6.92	13				
2312.5	27735	7.10	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2572.5	37775	9.28	13	2575	37800	10.22	13
2595.0	38000	10.85	13	2595	38000	9.35	13
2617.5	38225	9.65	13	2615	38200	10.31	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2577.5	37825	11.33	13	2580.0	37850	10.74	13
2595.0	38000	6.38	13	2595.0	38000	6.47	13
2612.5	38175	11.49	13	2610.0	38150	7.56	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	9.09	13	2501.0	39700	9.97	13
2593.0	40620	8.63	13	2593.0	40620	6.70	13
2687.5	41565	9.93	13	2685.0	41540	10.07	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	5.98	13	2506.0	39750	8.61	13
2593.0	40620	8.94	13	2593.0	40620	8.75	13
2682.5	41515	11.54	13	2680.0	41490	7.25	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1710.7	131979	4.20	13	1711.5	131987	4.67	13
1745.0	132322	4.23	13	1745.0	132322	4.59	13
1779.3	132665	4.25	13	1778.5	132657	4.54	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1712.5	131997	5.13	13	1715.0	132022	5.29	13
1745.0	132322	4.98	13	1745.0	132322	5.05	13
1777.5	132647	5.16	13	1775.0	132622	5.14	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1717.5	132047	5.05	13	1720.0	132072	5.01	13
1745.0	132322	4.79	13	1745.0	132322	5.01	13
1772.5	132597	4.82	13	1770.0	132572	5.17	13

Please refer to next page for test plots.

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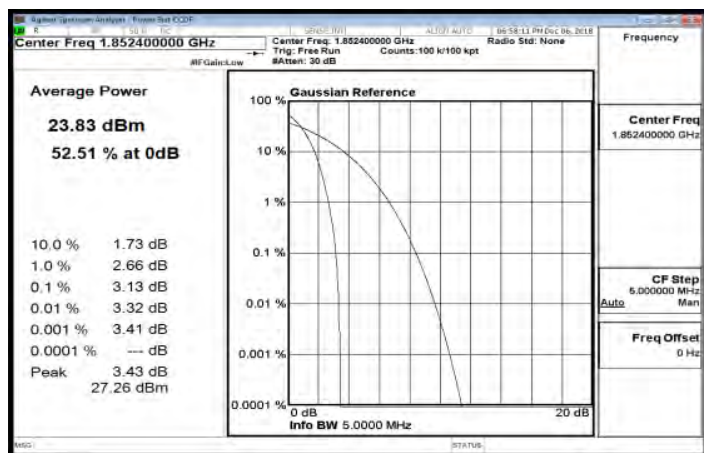
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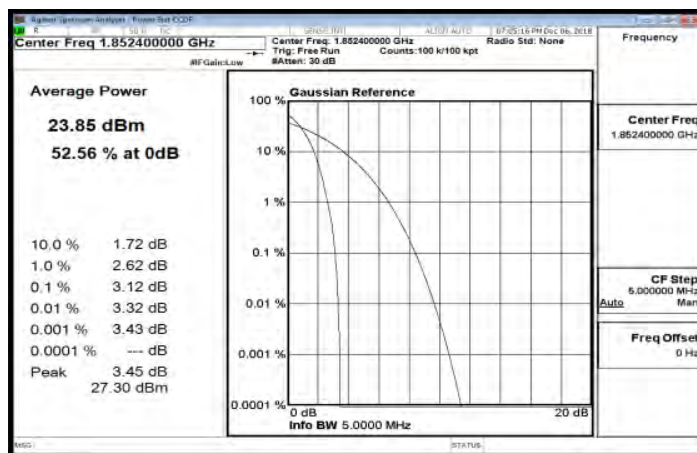
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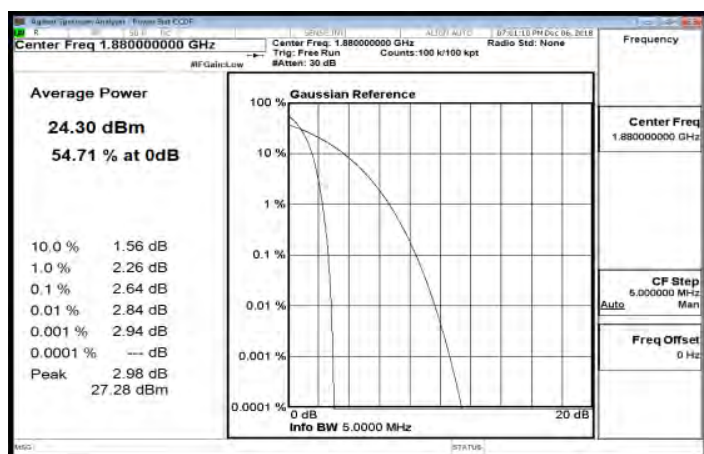
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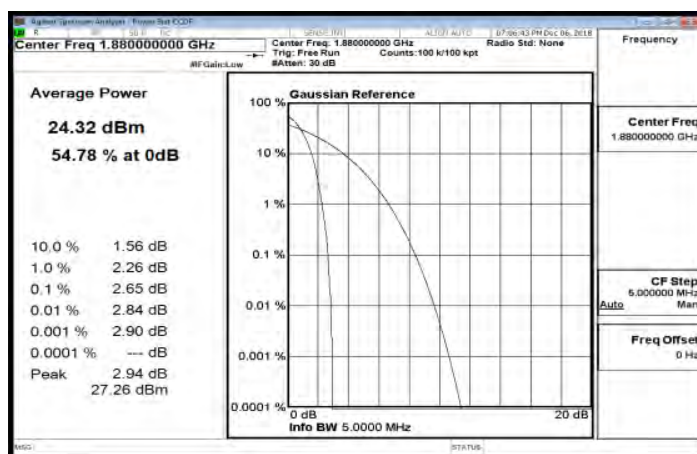
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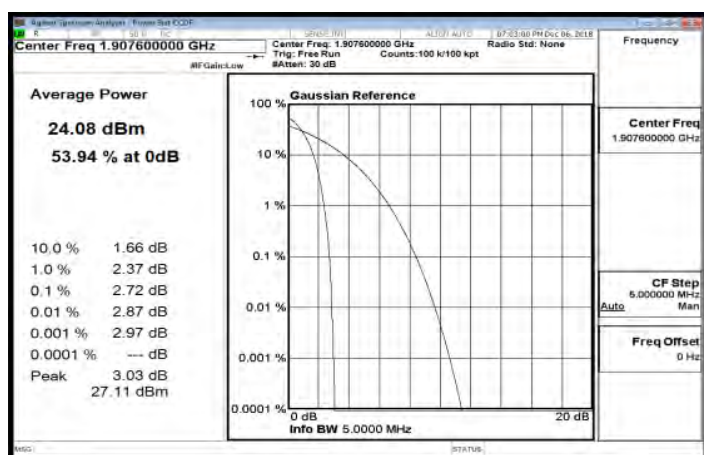
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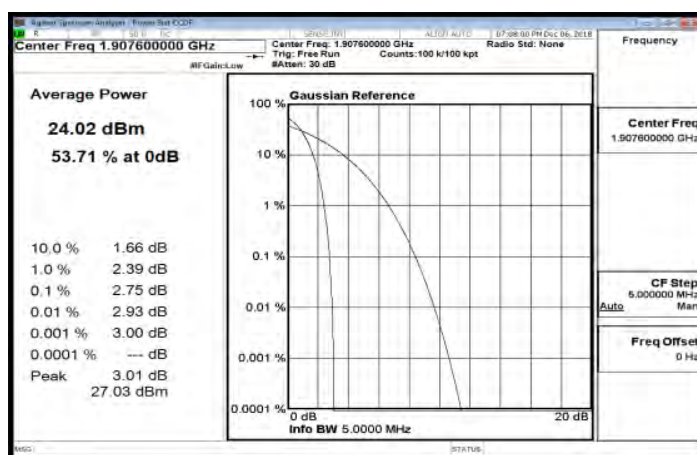
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WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6



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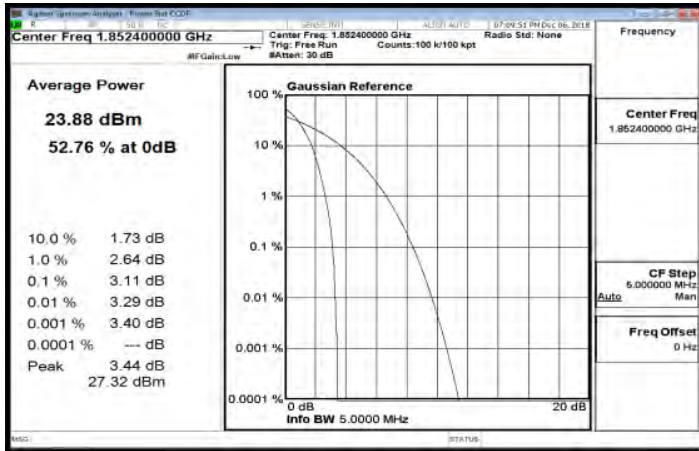
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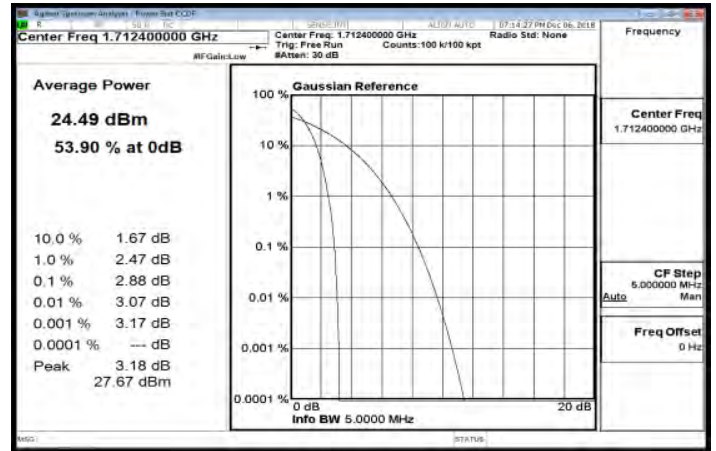
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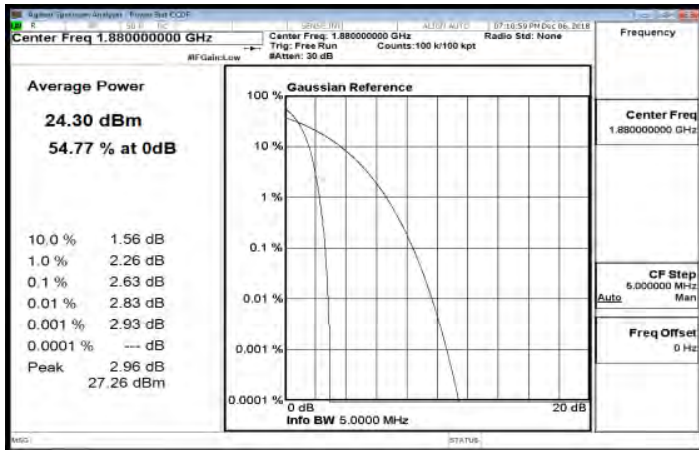
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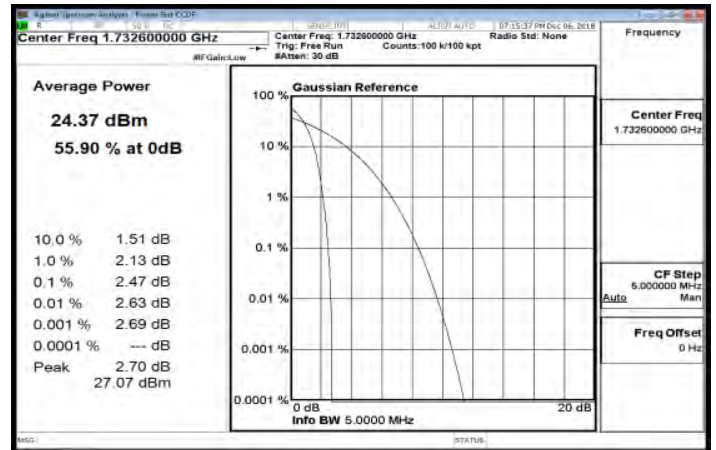
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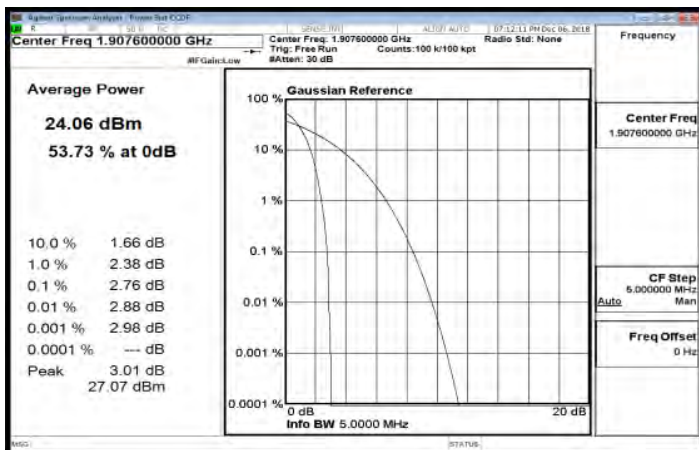
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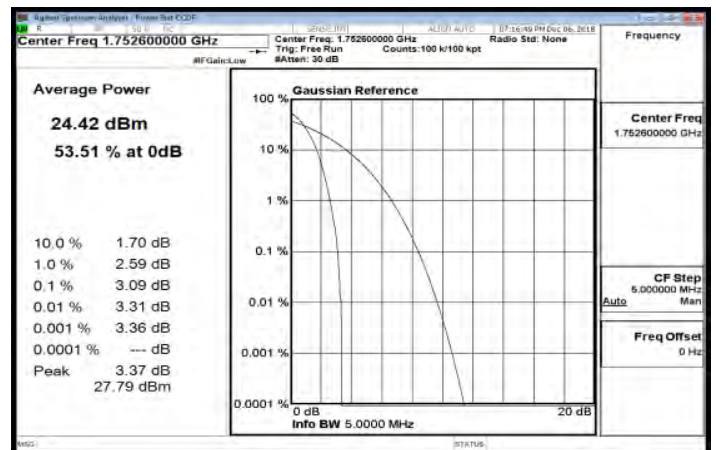
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HSUPA_B2_HighCH9538-1907.6



WCDMA_B4_HighCH1513-1752.6



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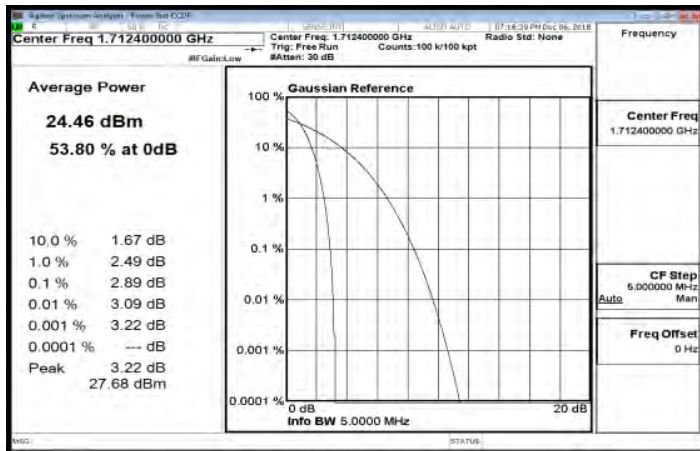
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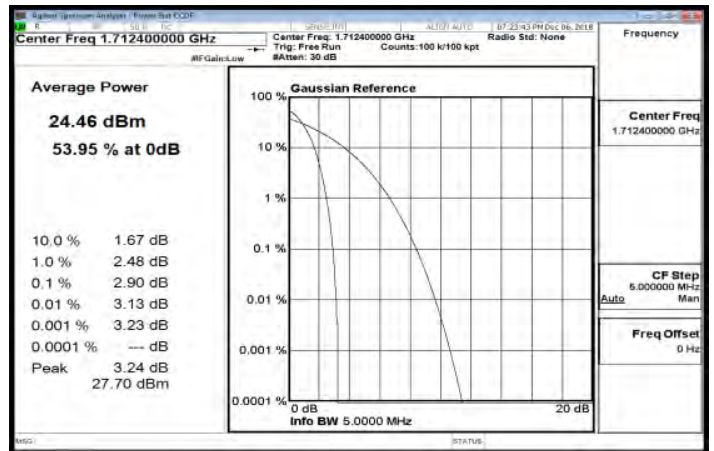
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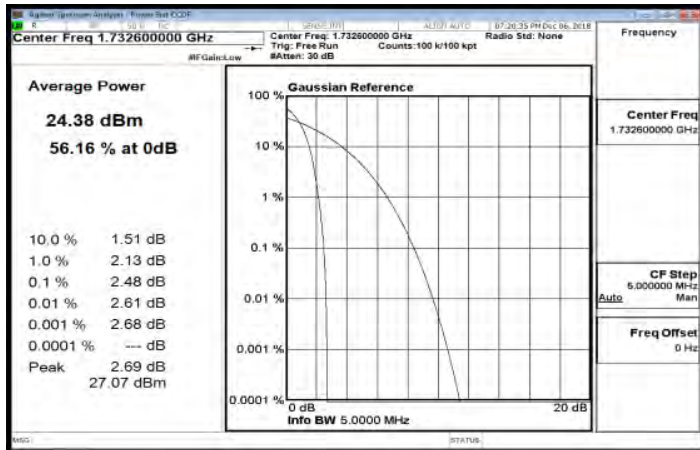
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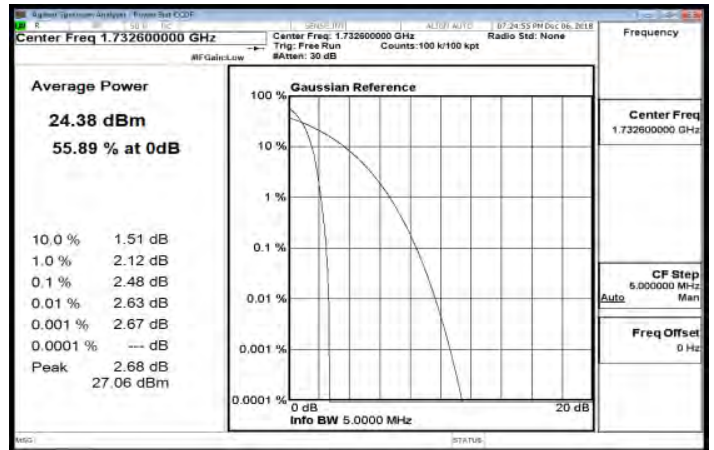
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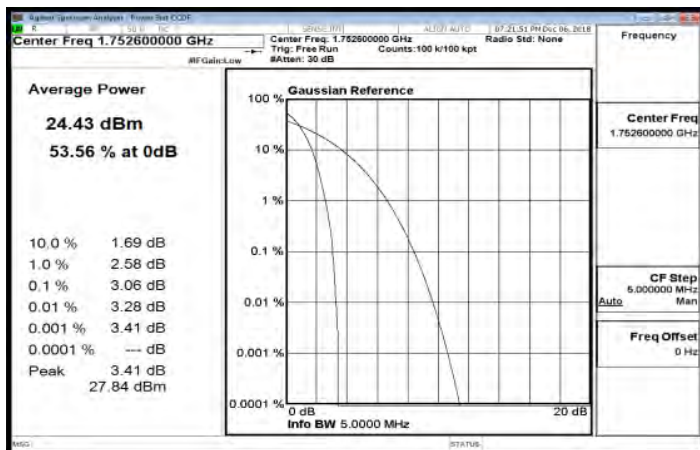
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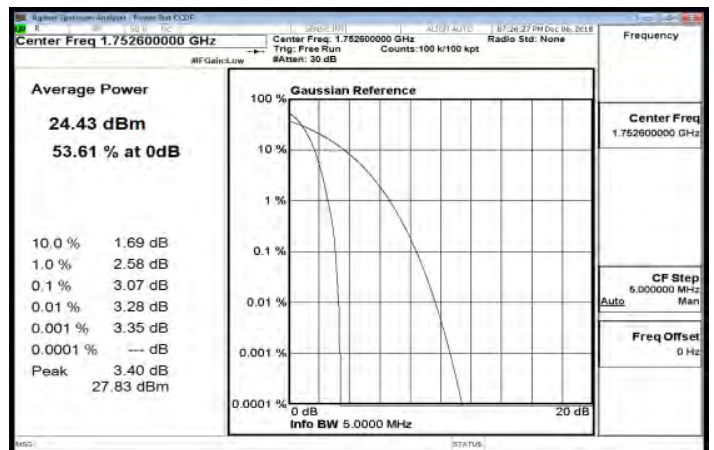
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HSUPA_B4_HighCH1513-1752.6



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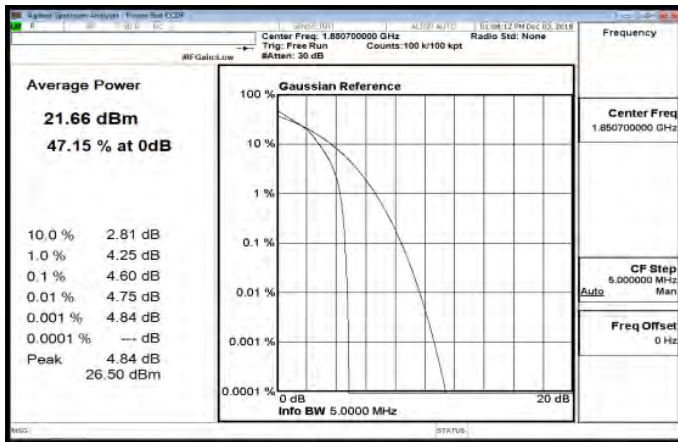
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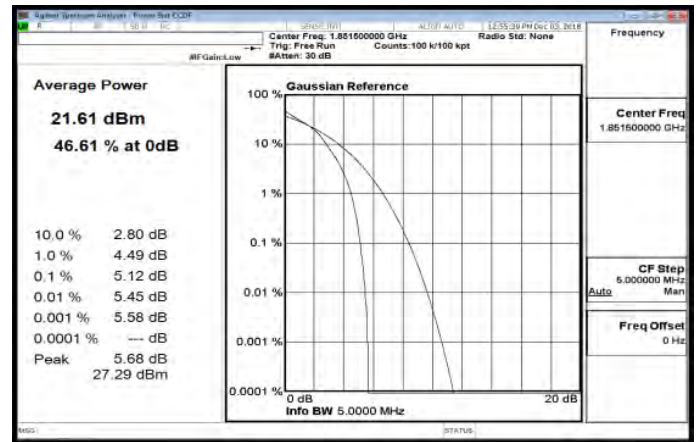
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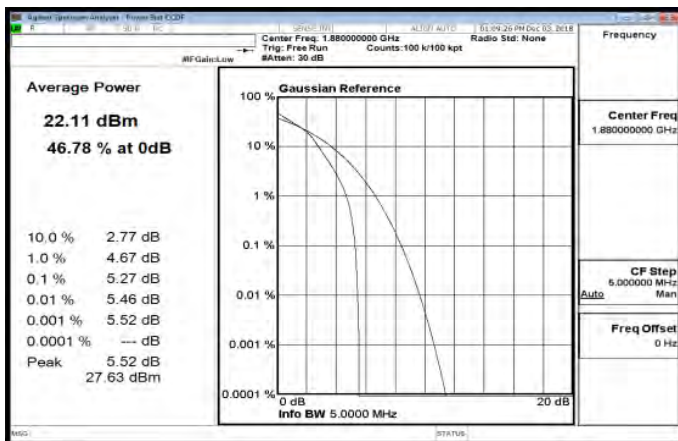
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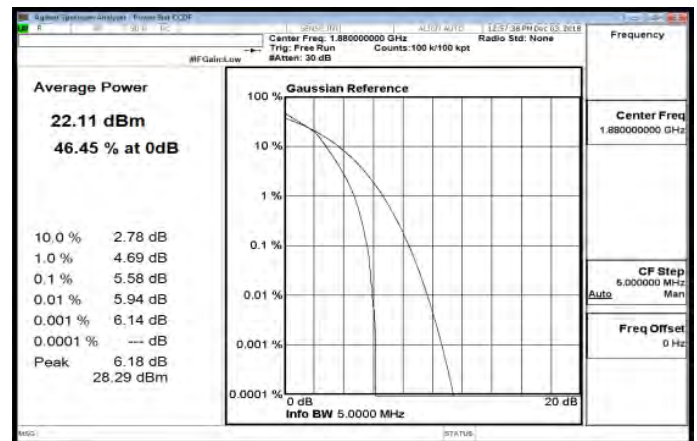
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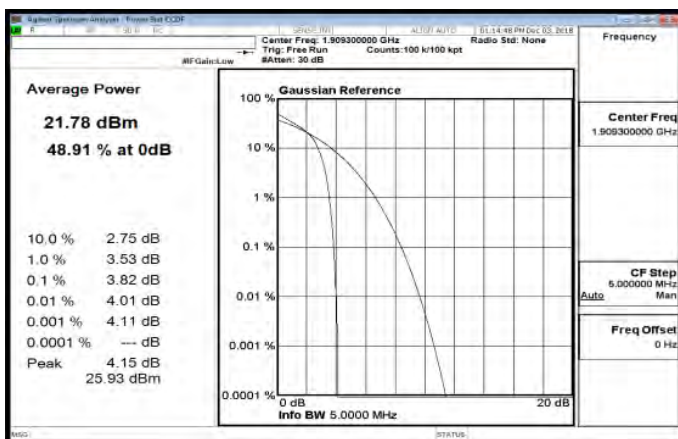
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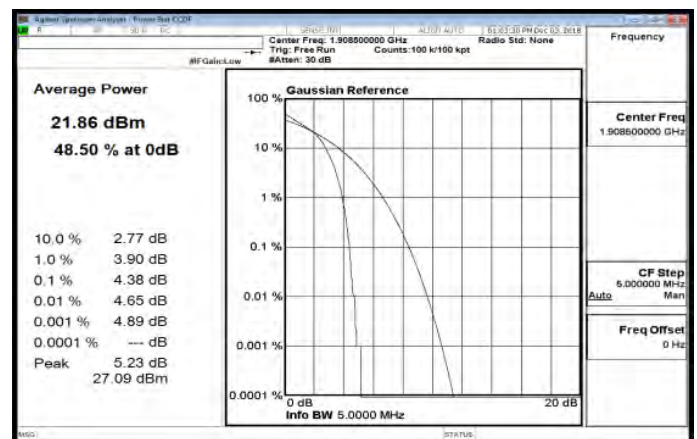
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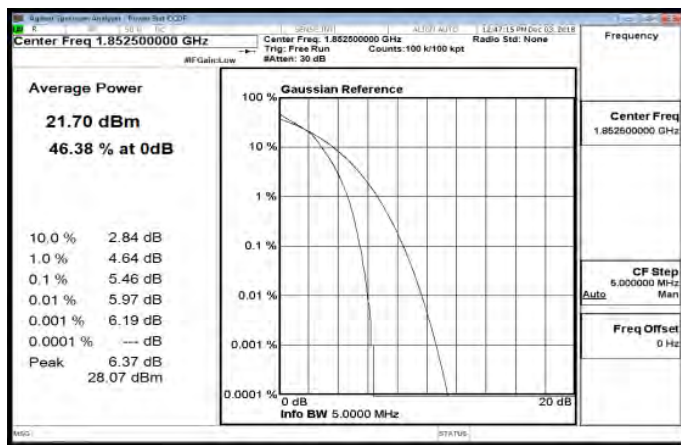
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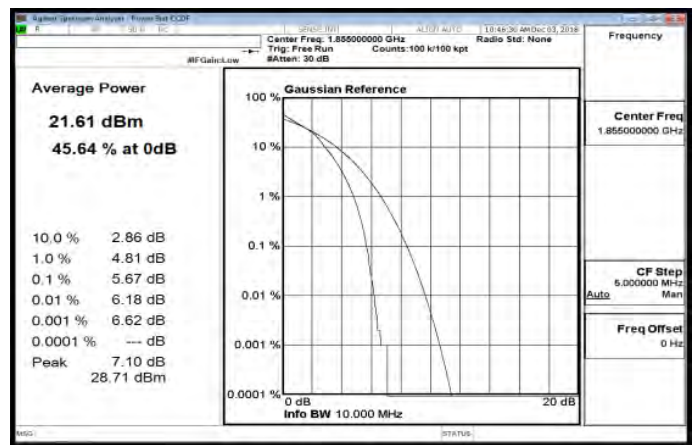
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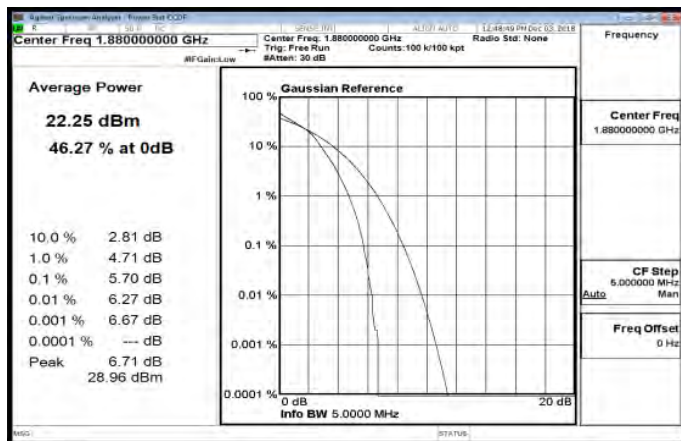
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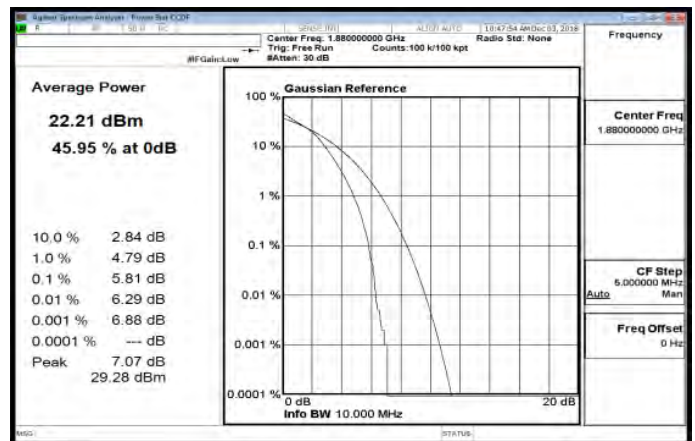
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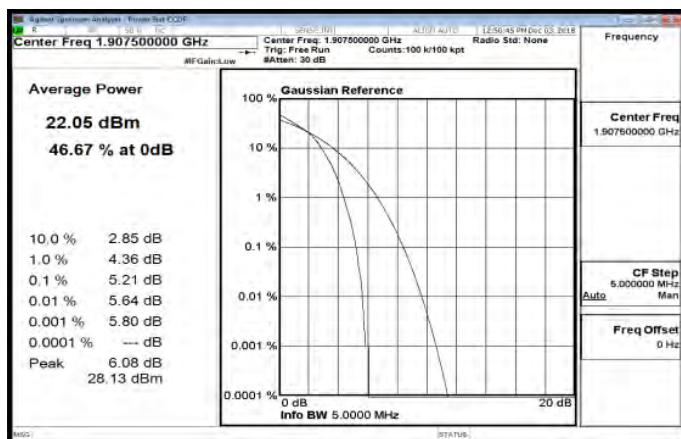
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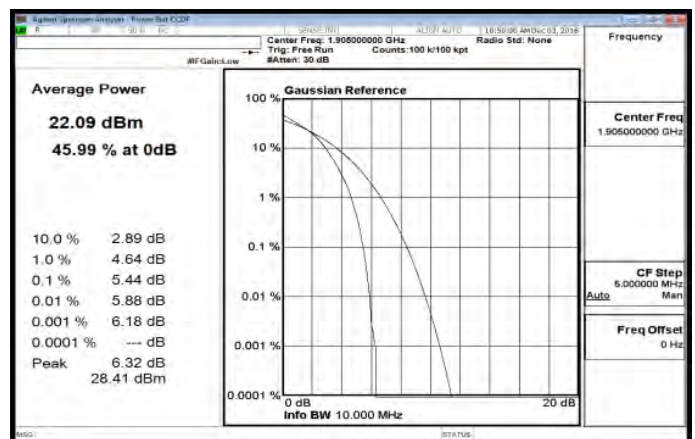
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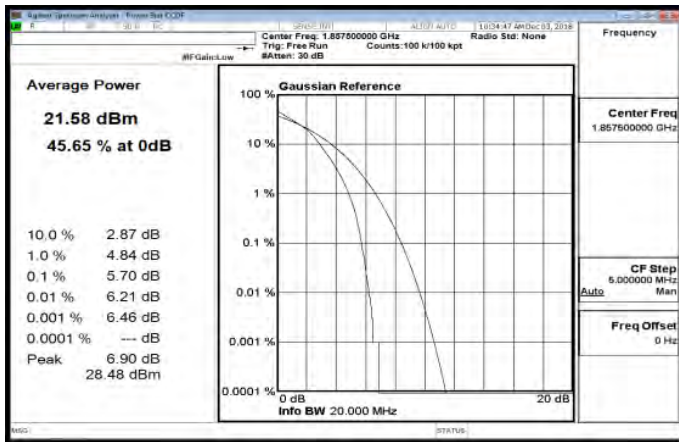
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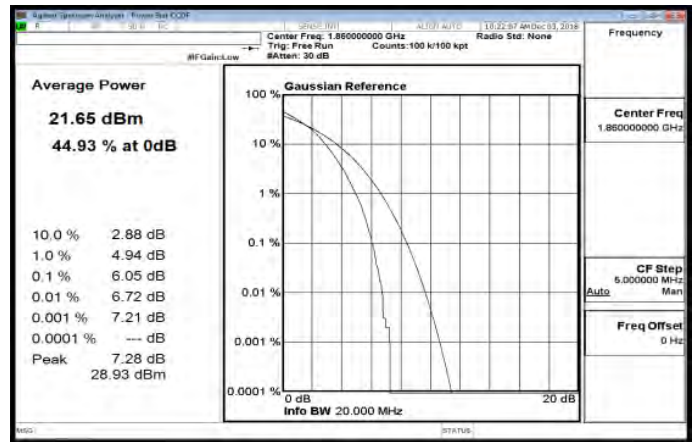
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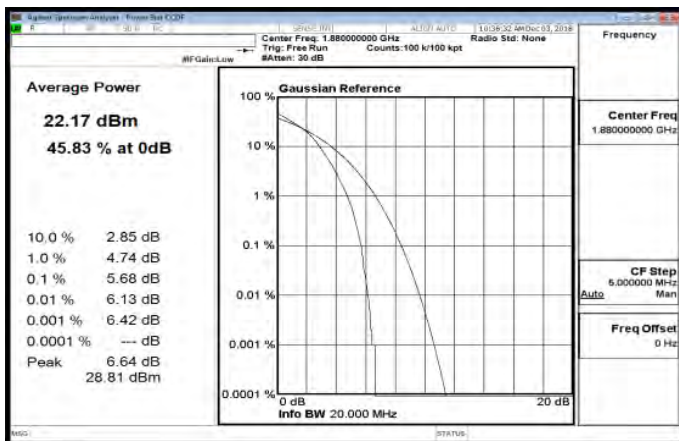
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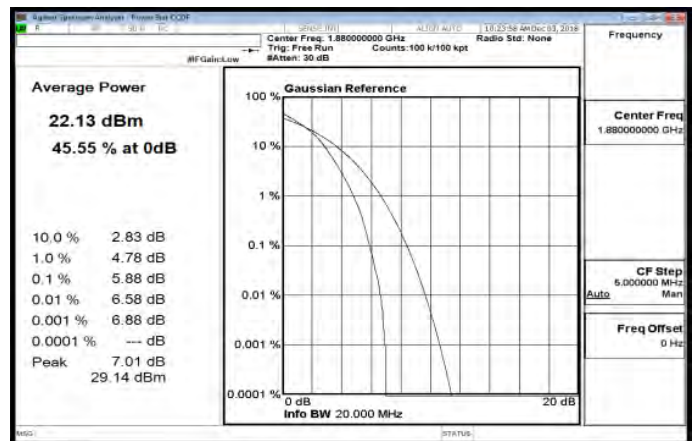
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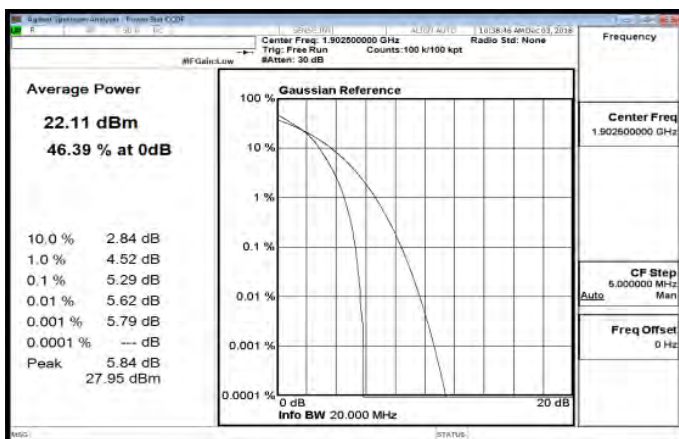
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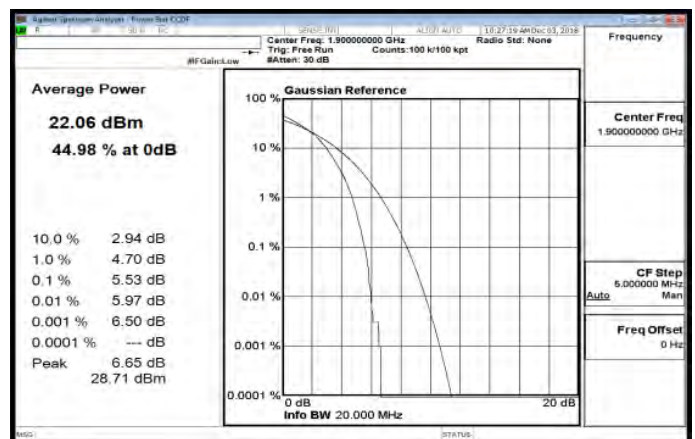
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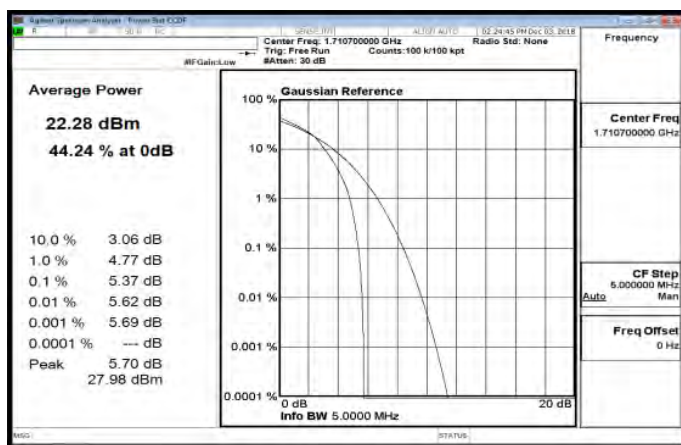
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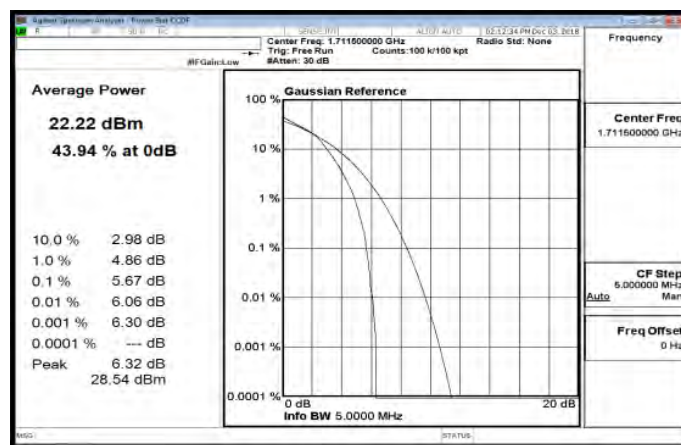
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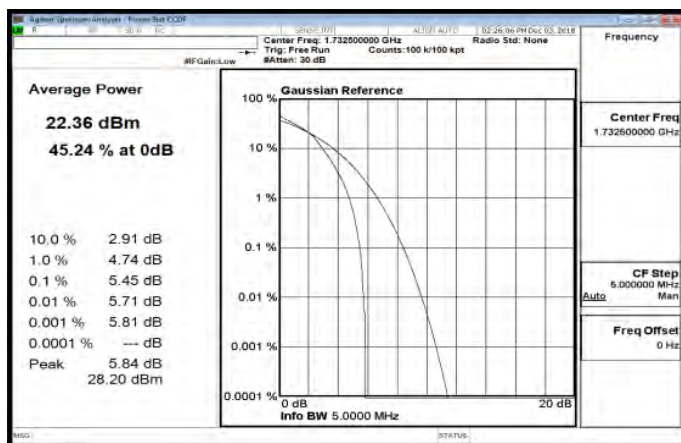
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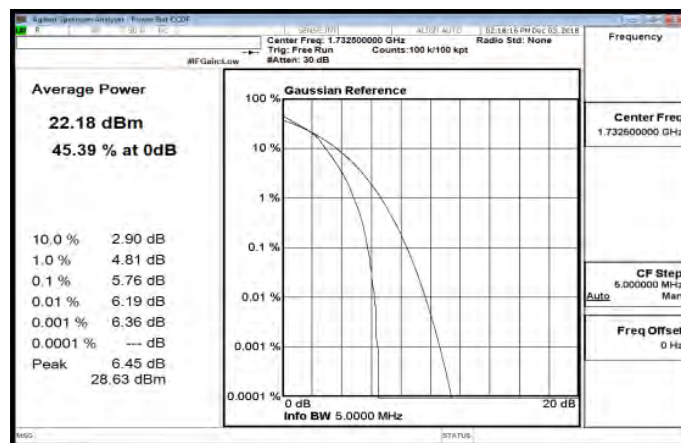
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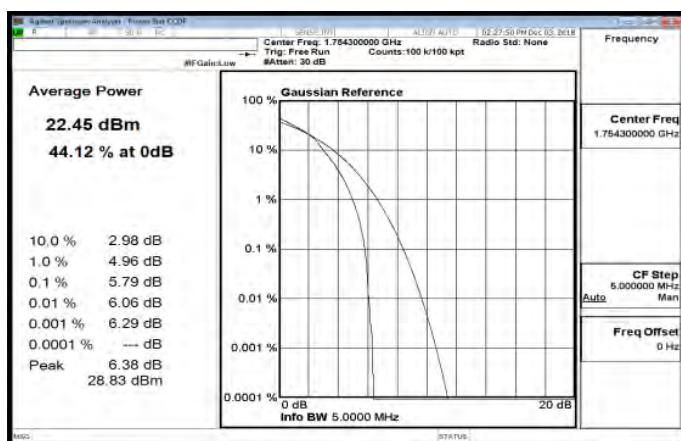
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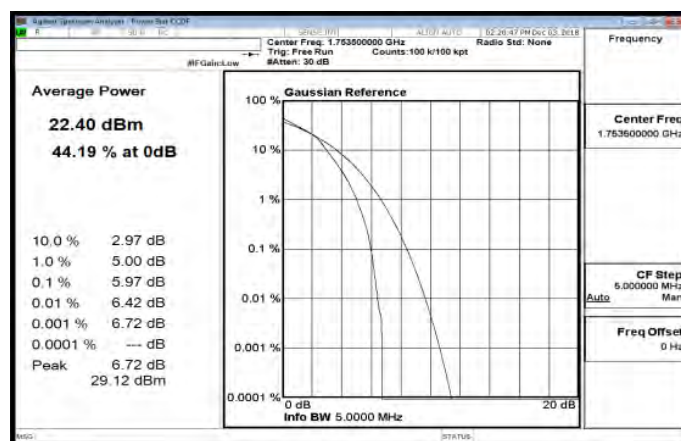
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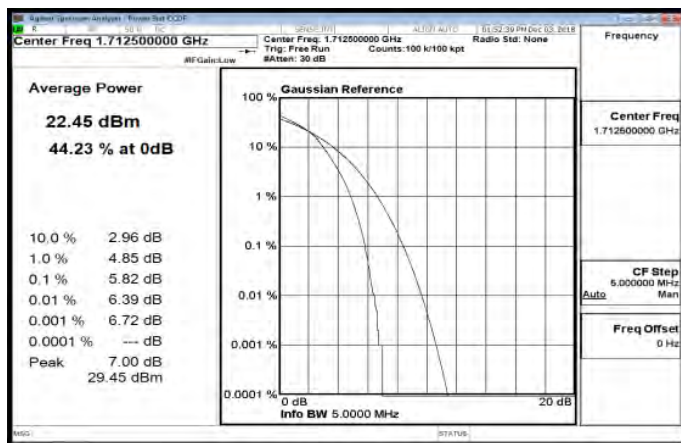
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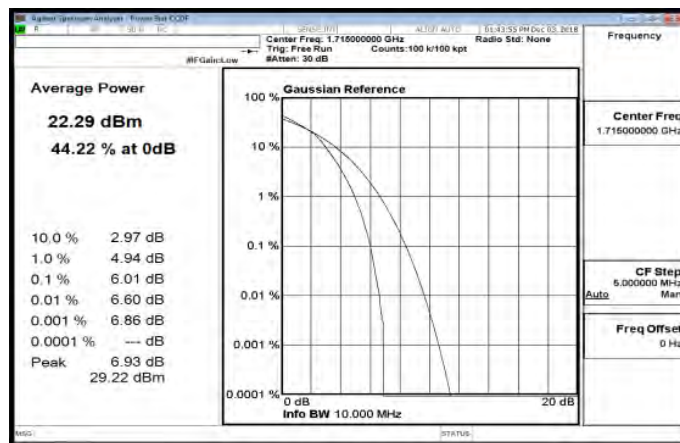
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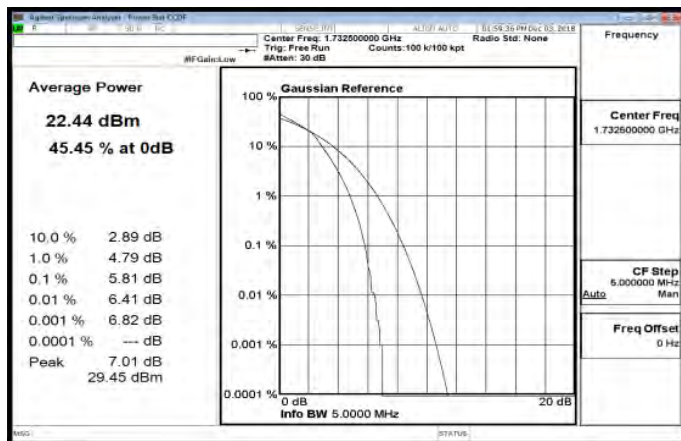
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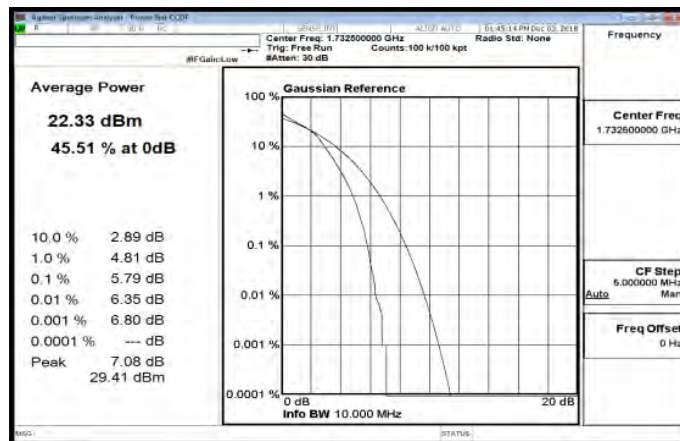
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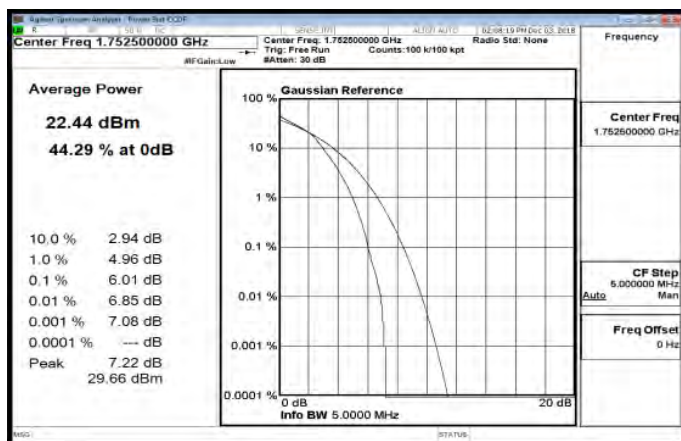
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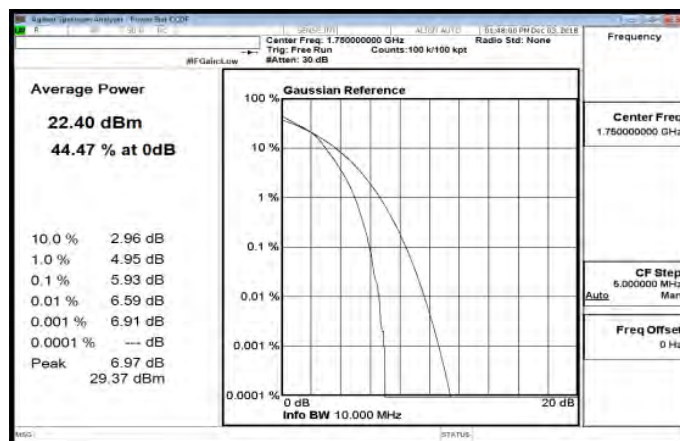
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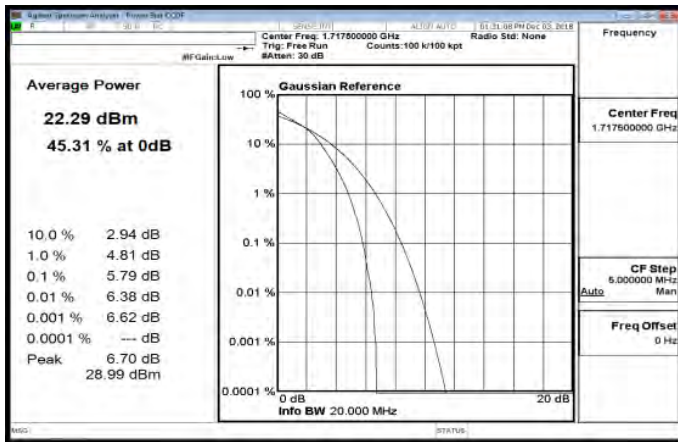
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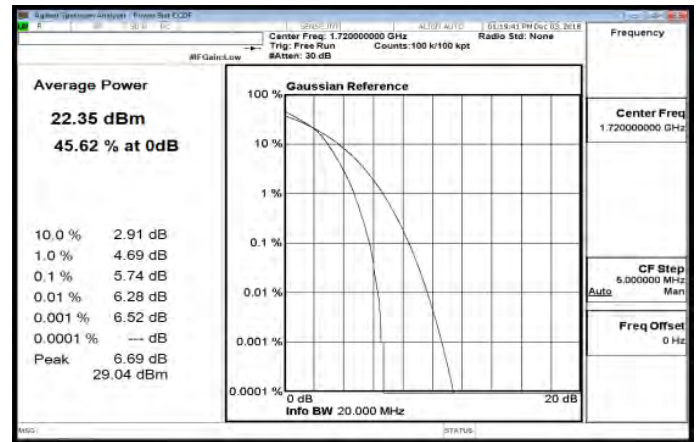
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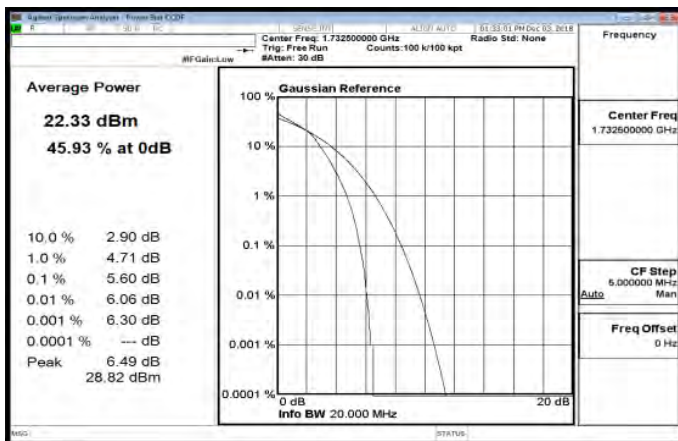
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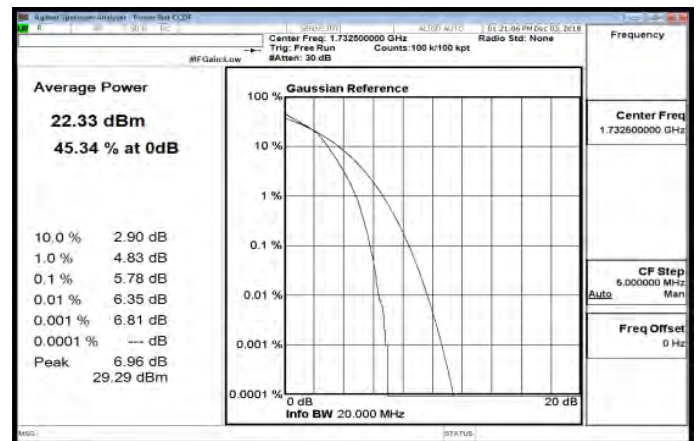
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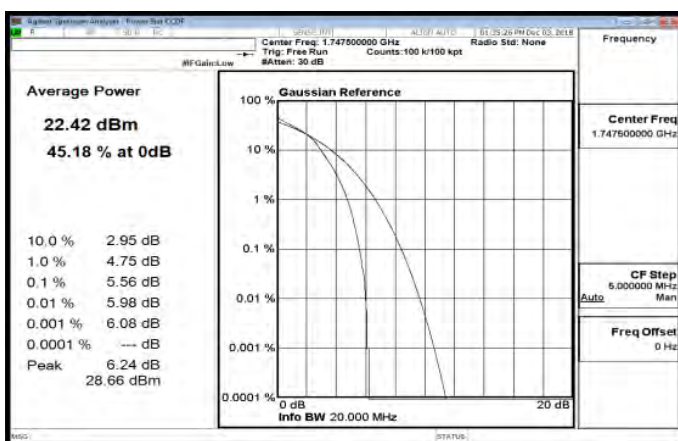
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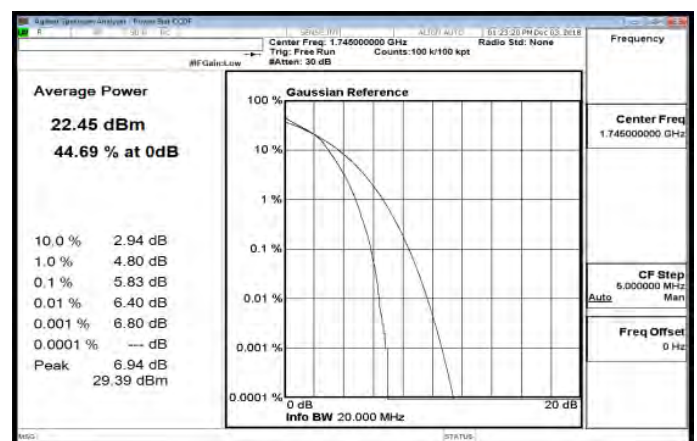
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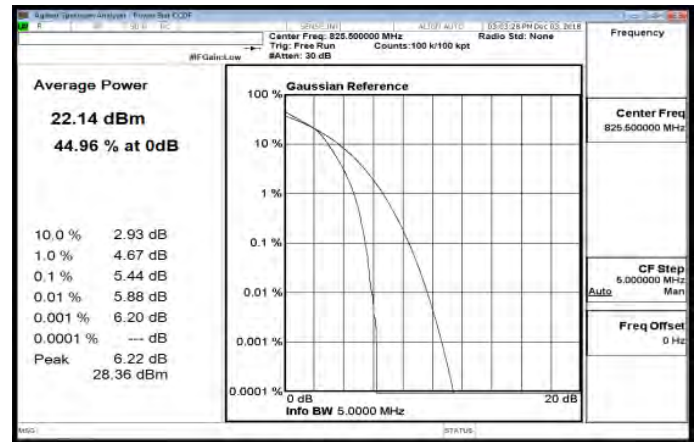
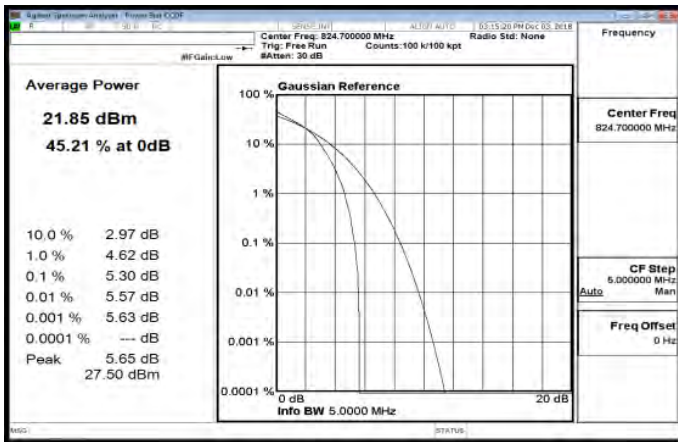
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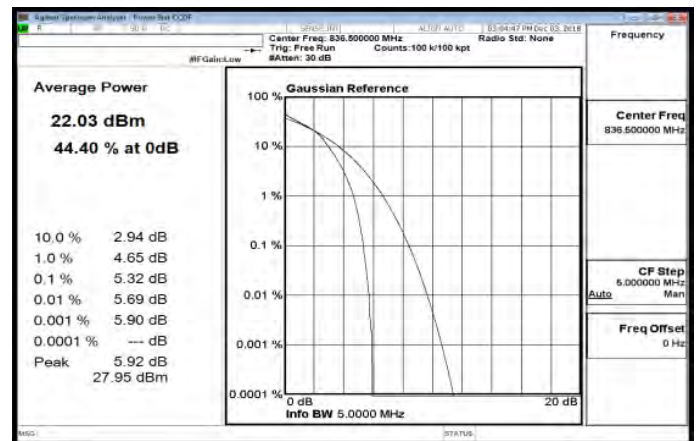
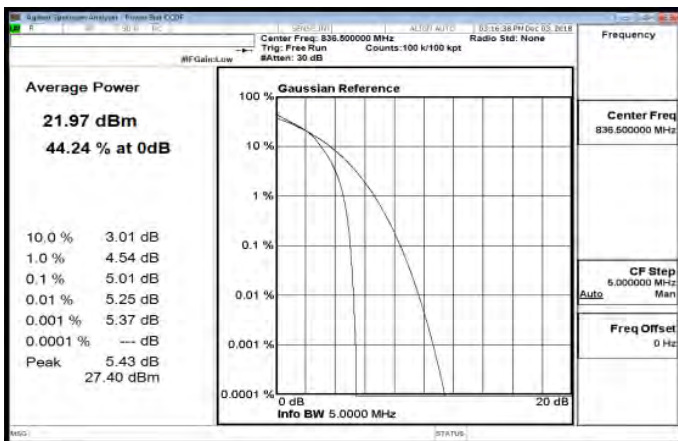
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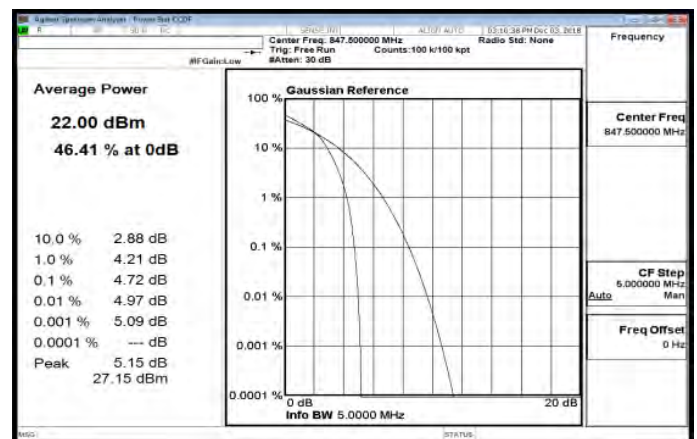
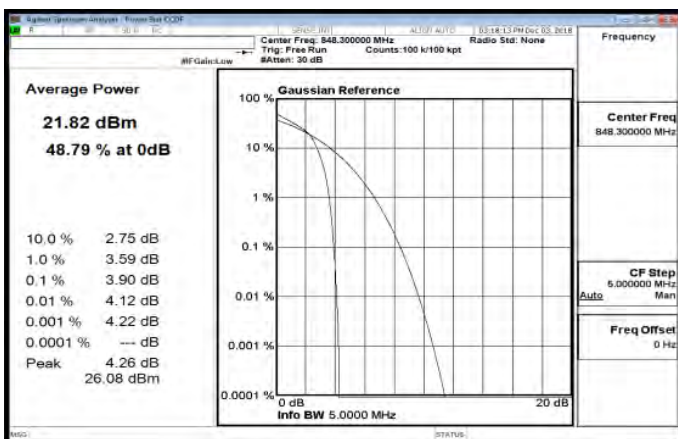
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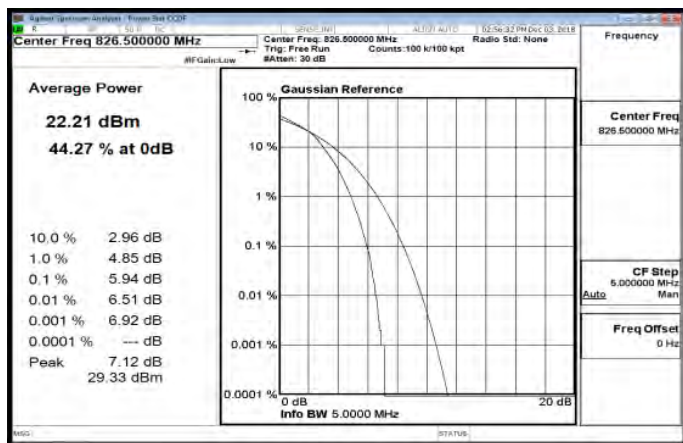
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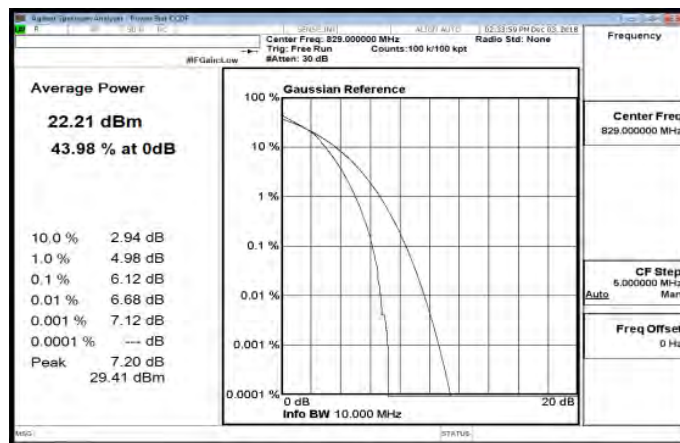
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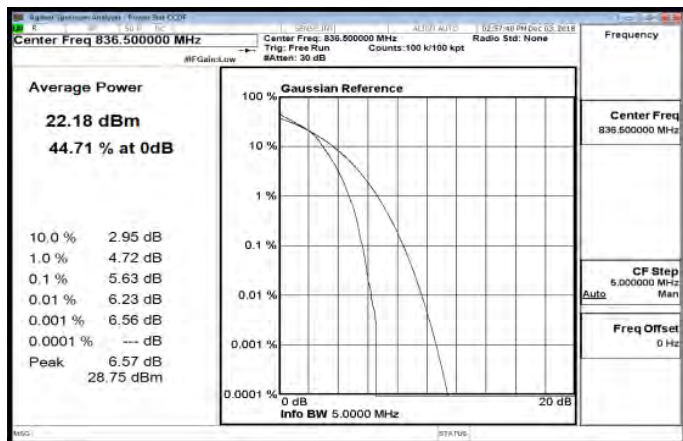
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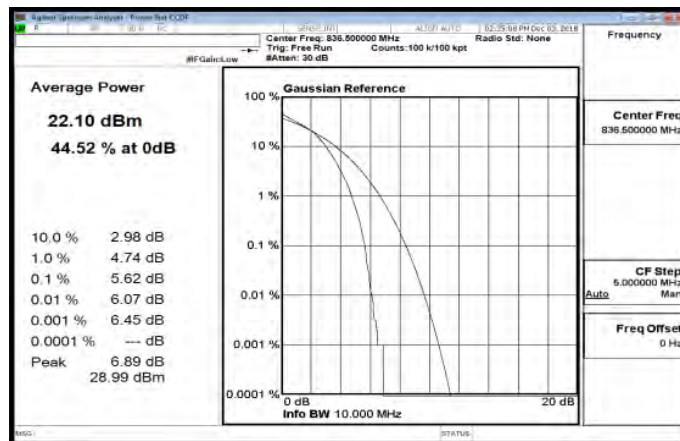
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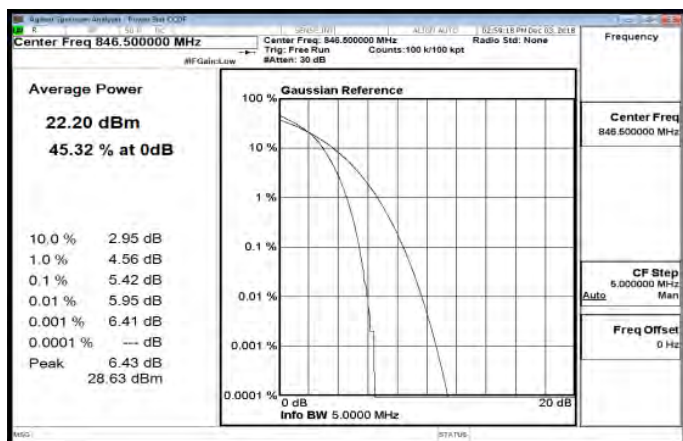
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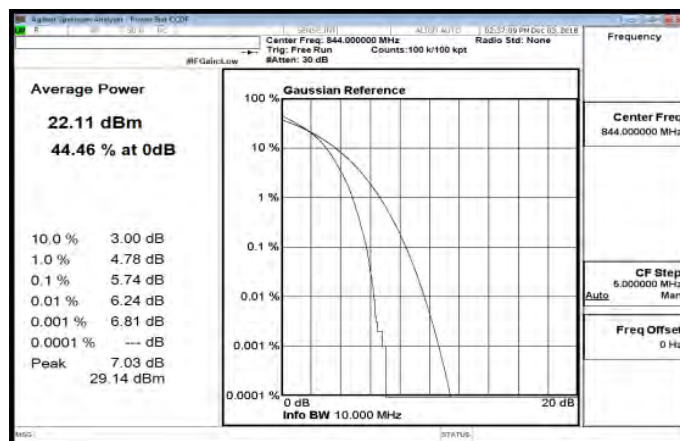
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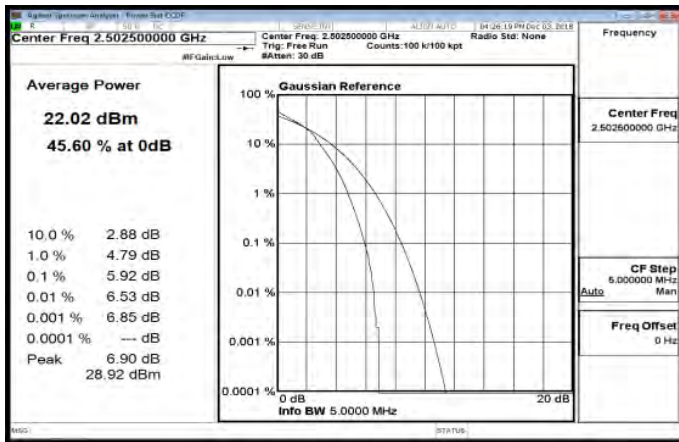
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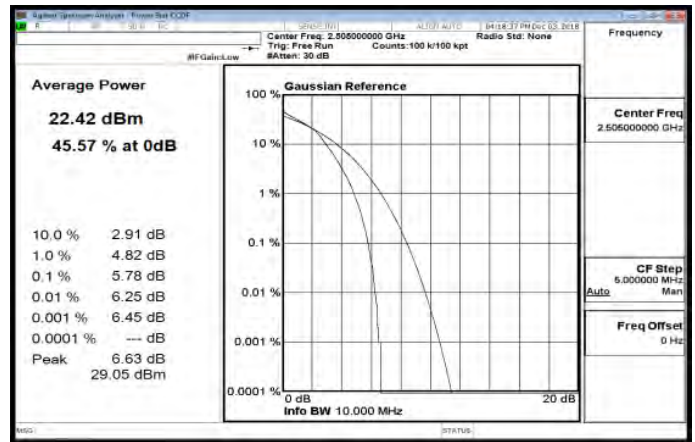
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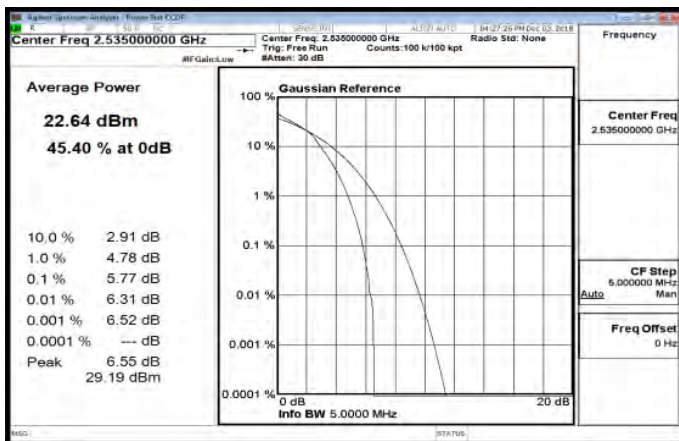
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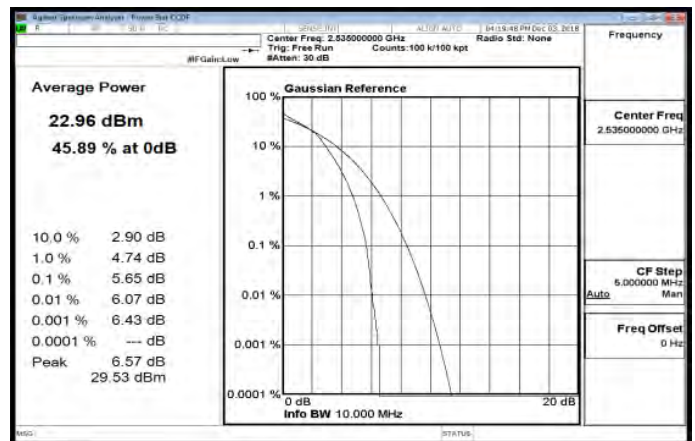
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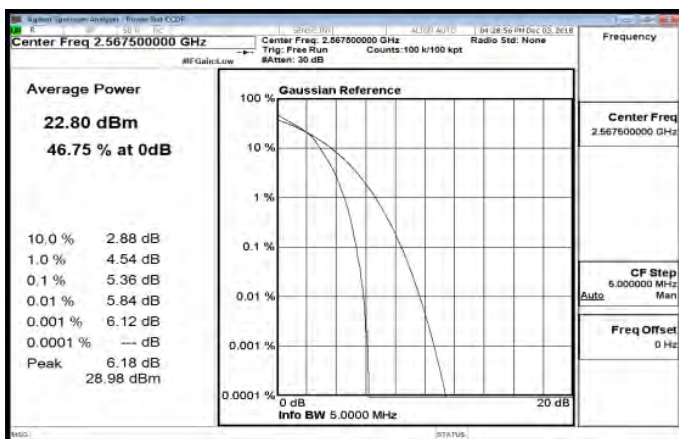
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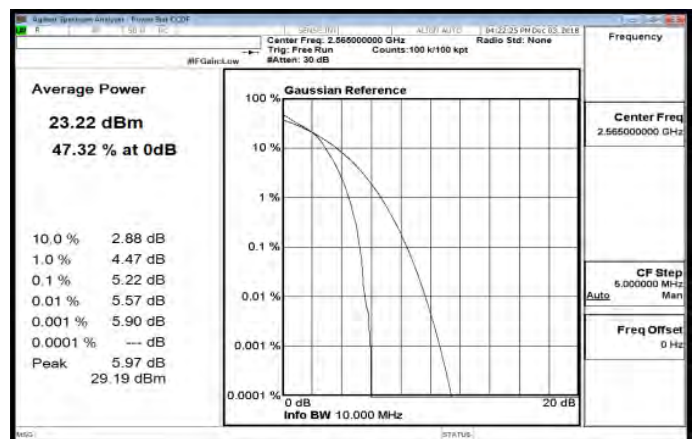
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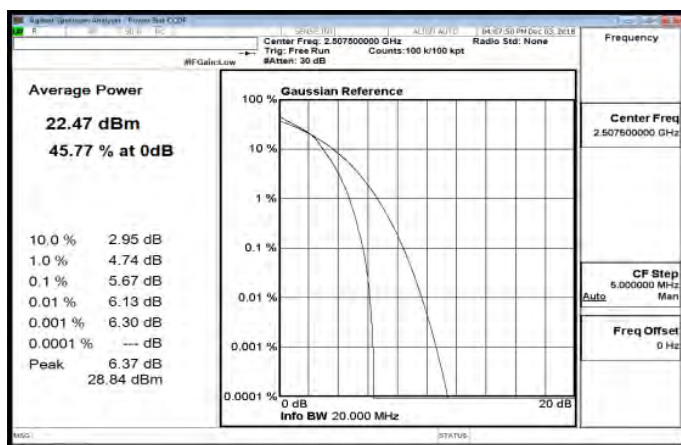
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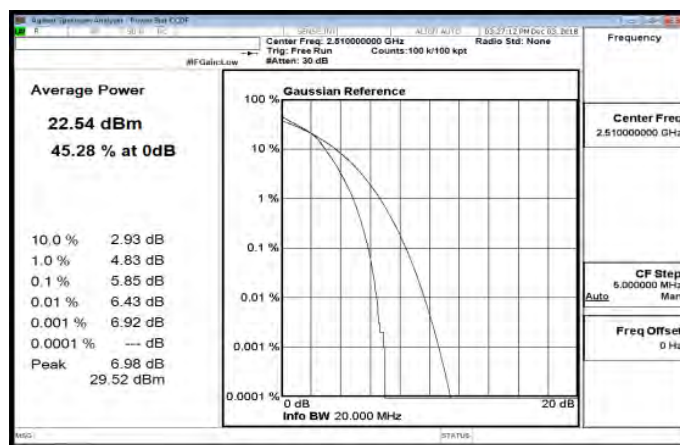
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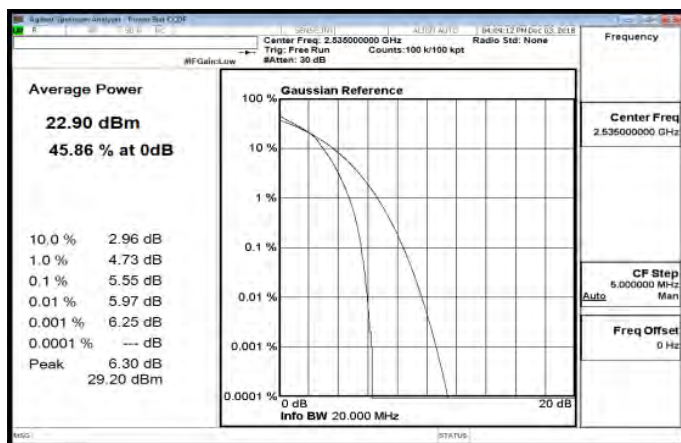
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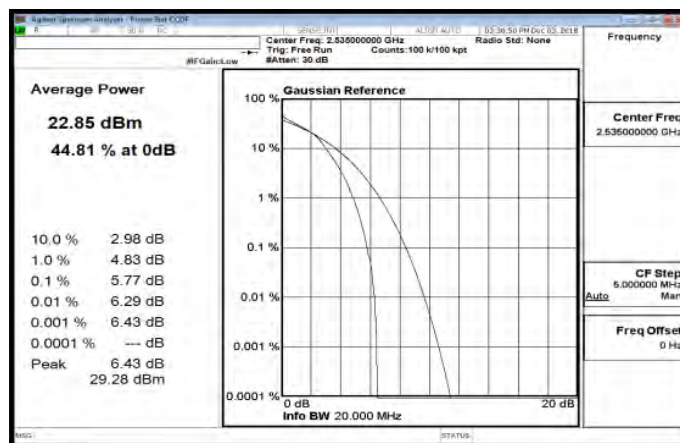
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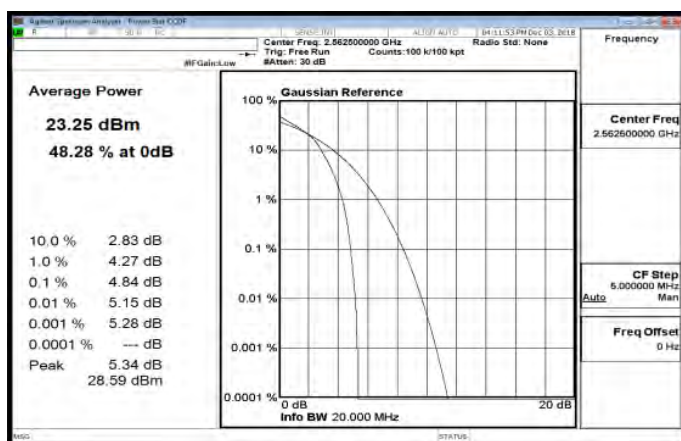
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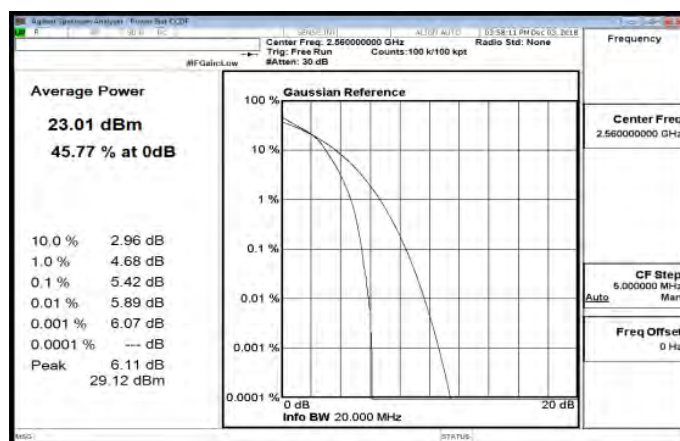
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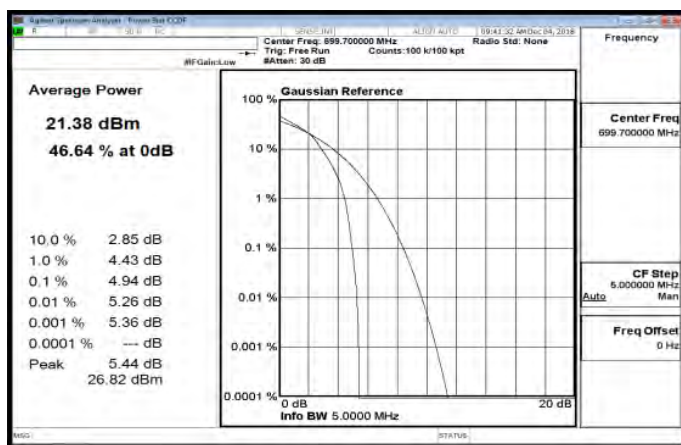
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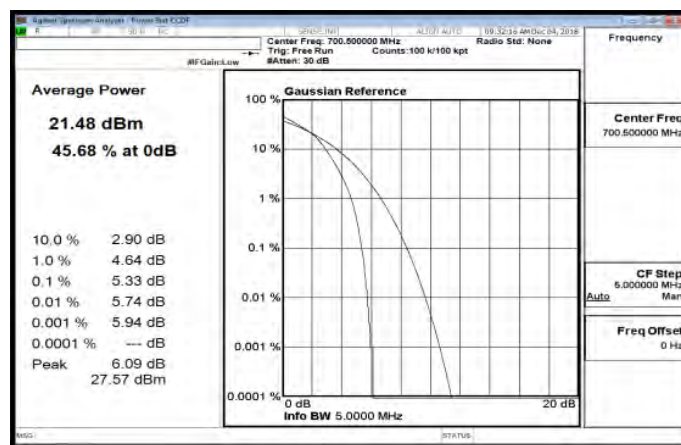
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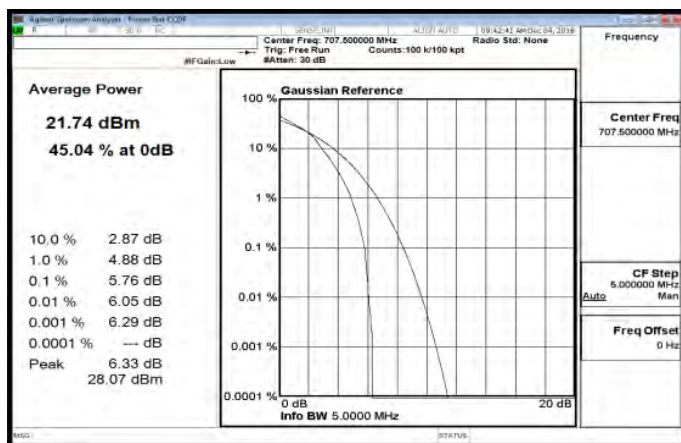
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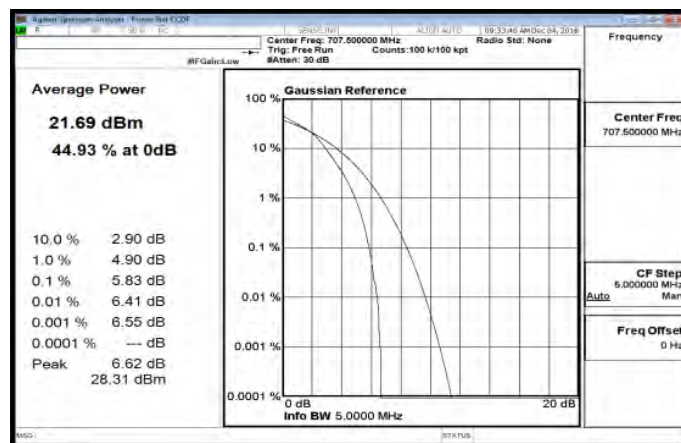
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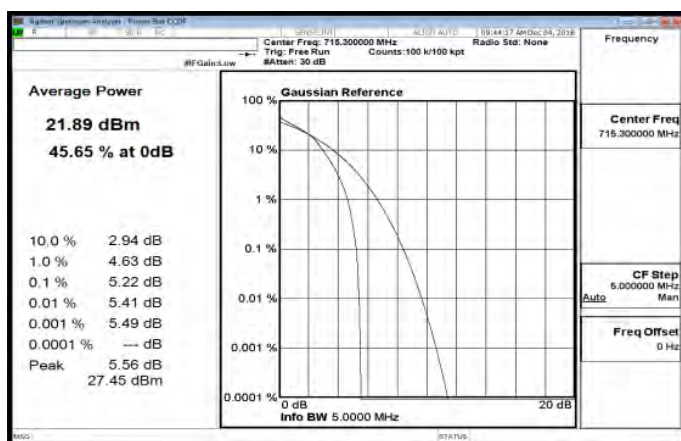
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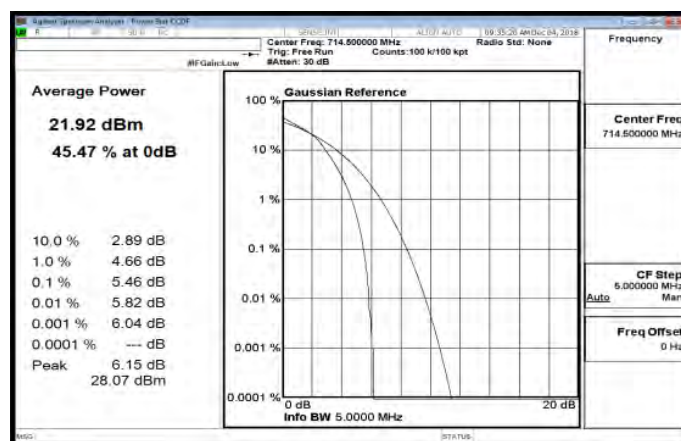
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LTE_Band12_3MHz_64QAM_15_0_HighCH23165-714.5



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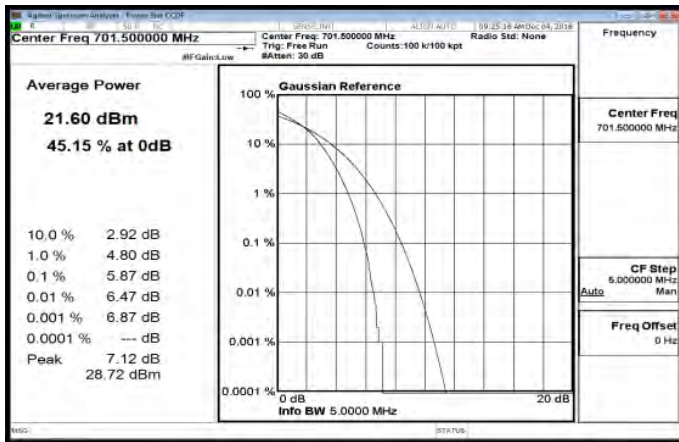
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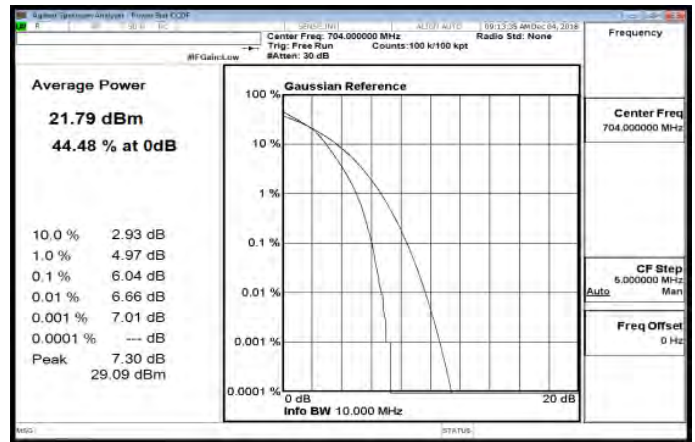
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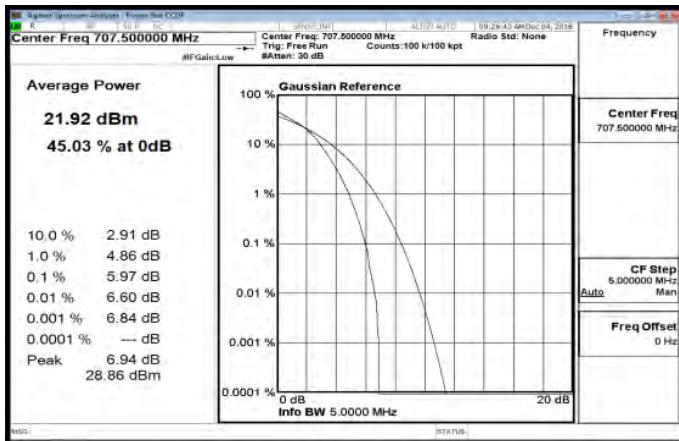
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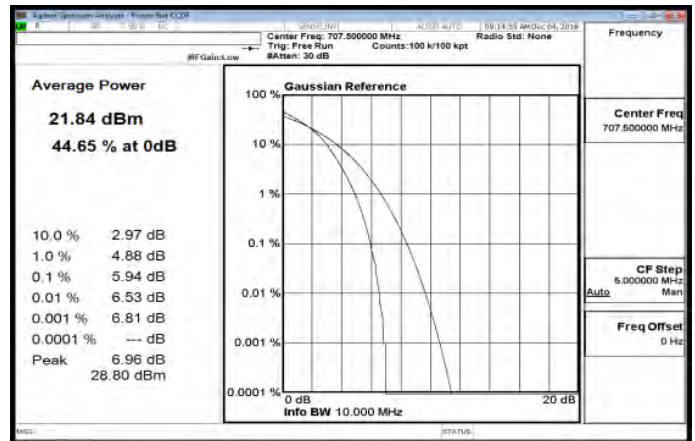
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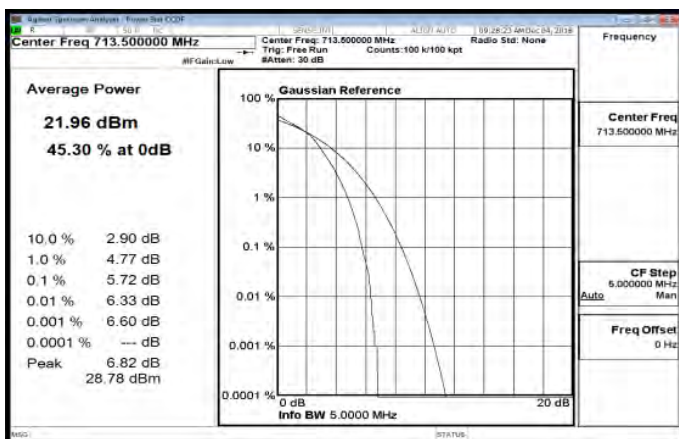
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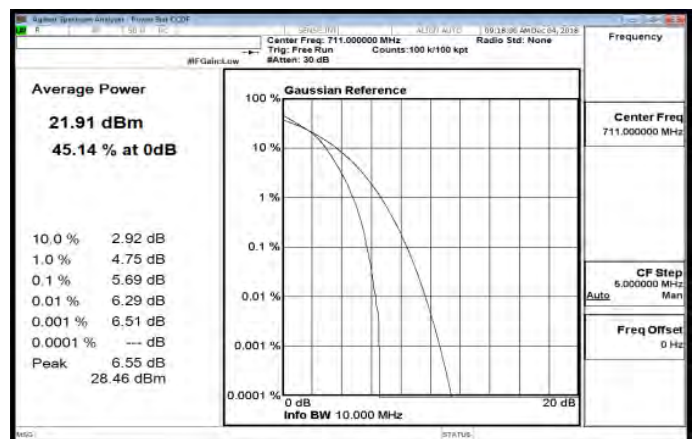
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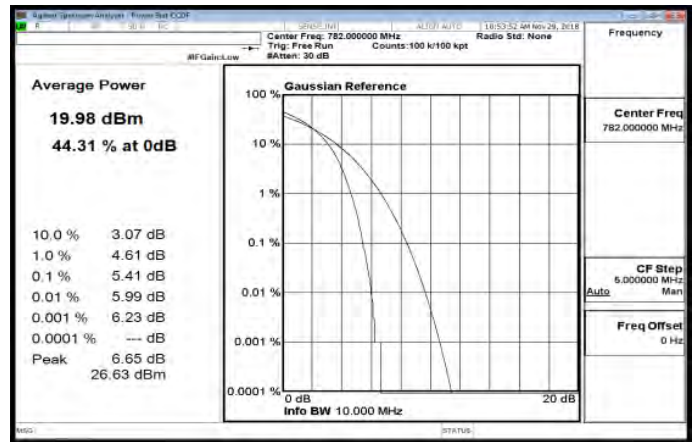
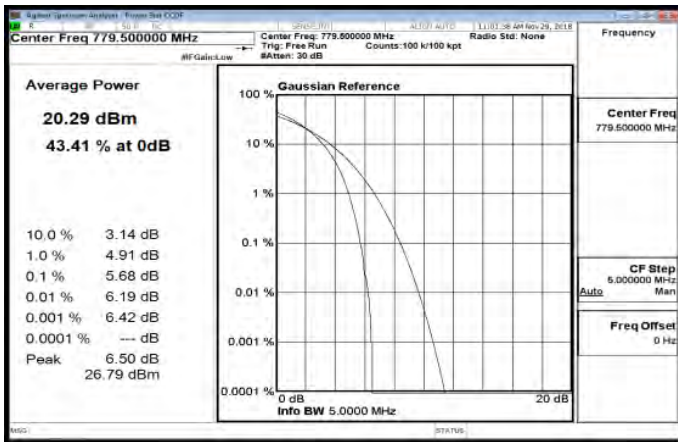
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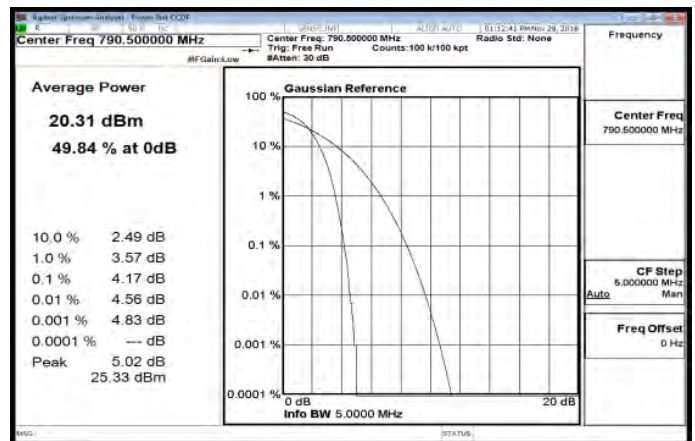
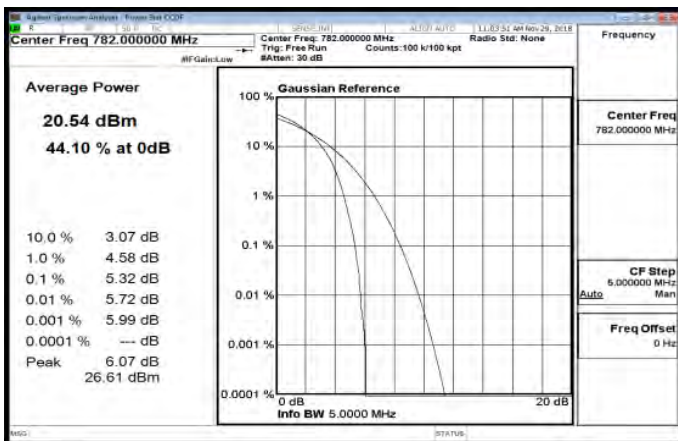
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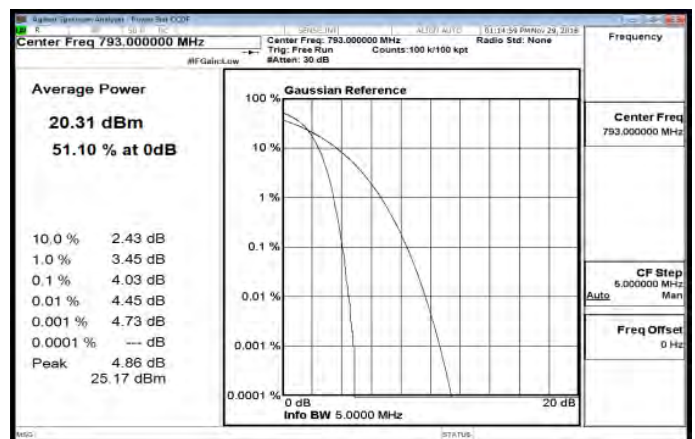
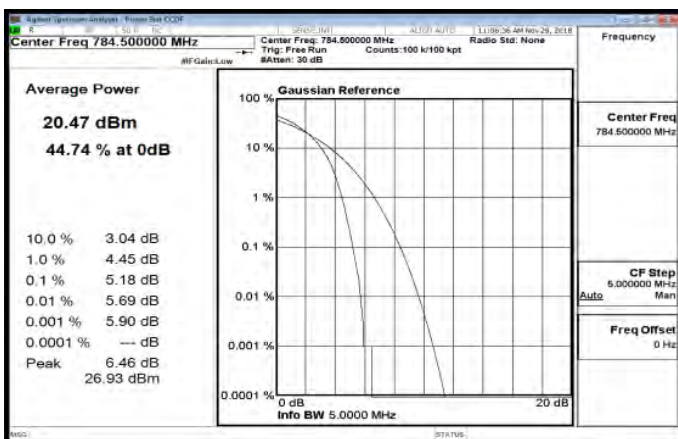
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LTE_Band14_5MHz_64QAM_25_0_MidCH23330



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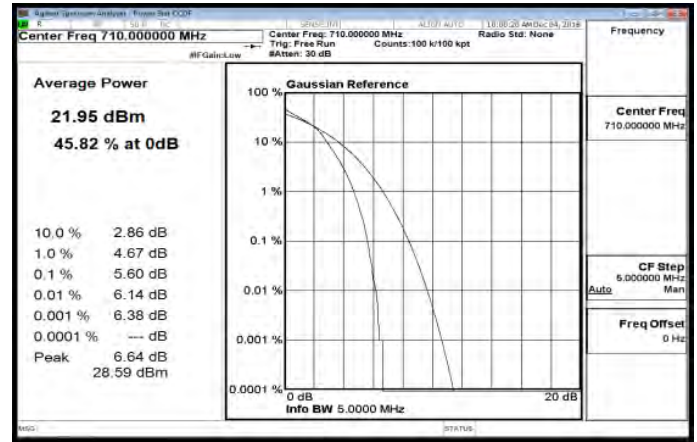
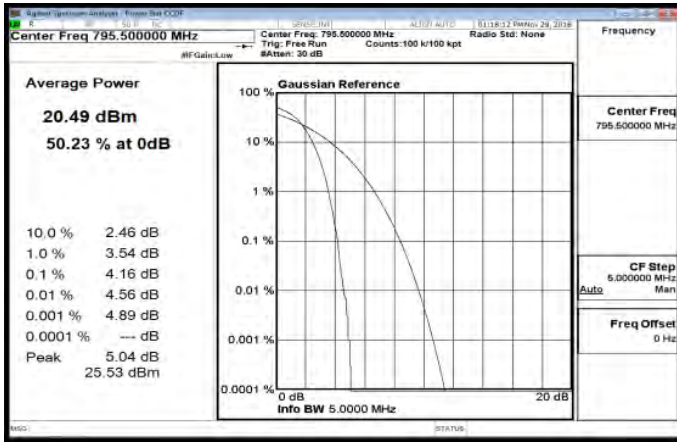
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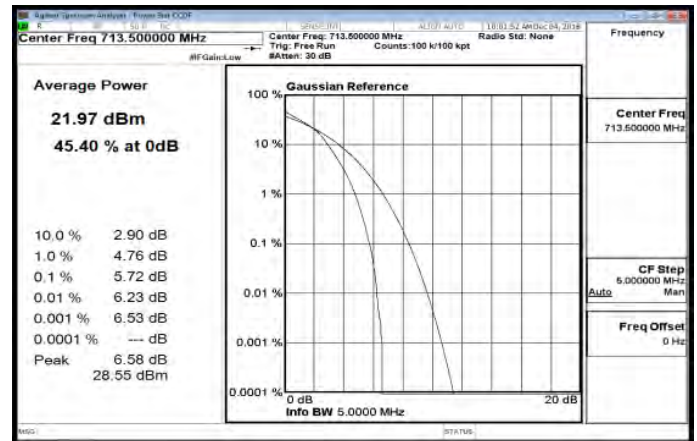
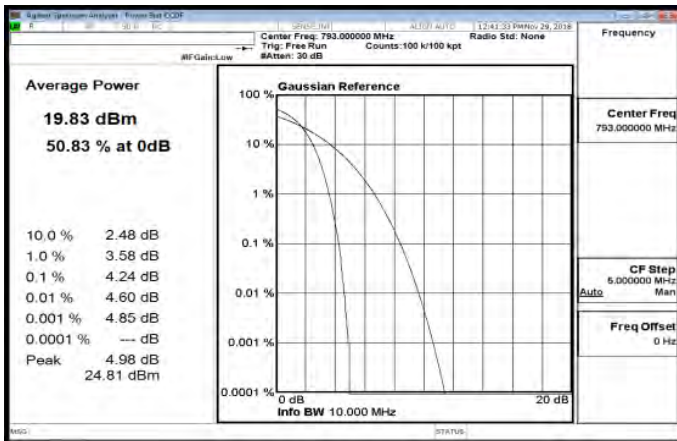
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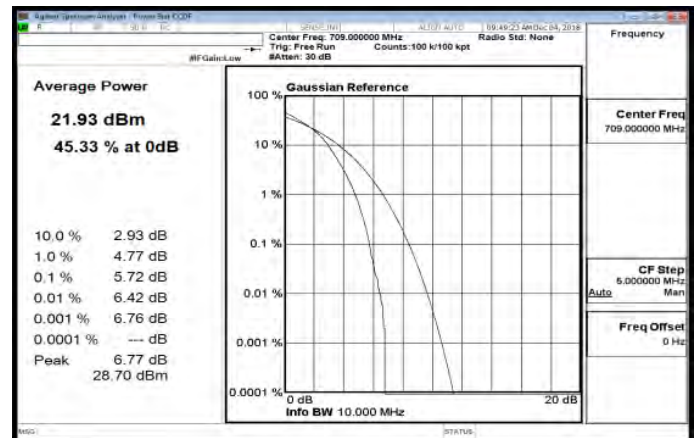
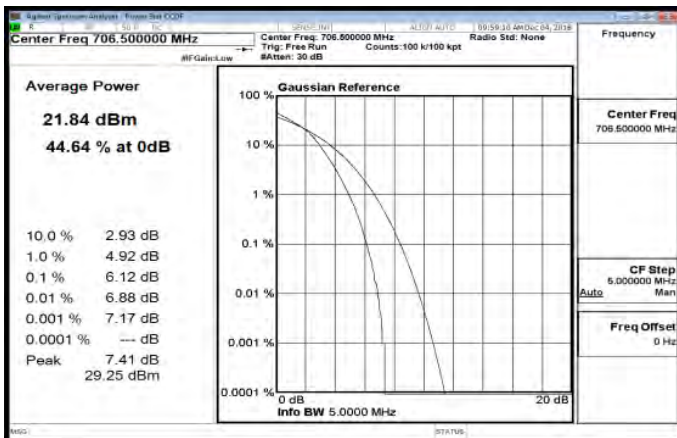
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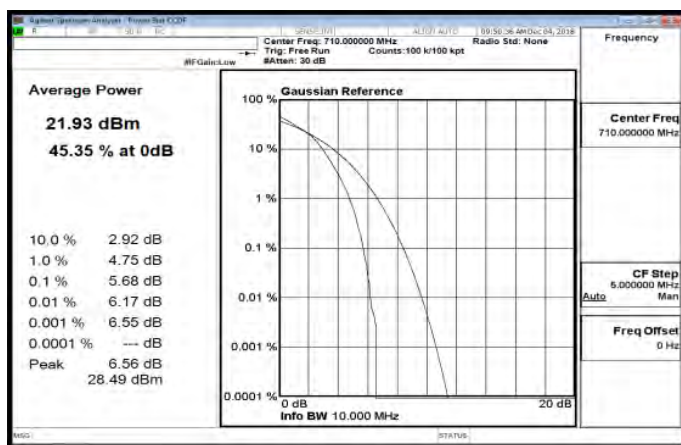
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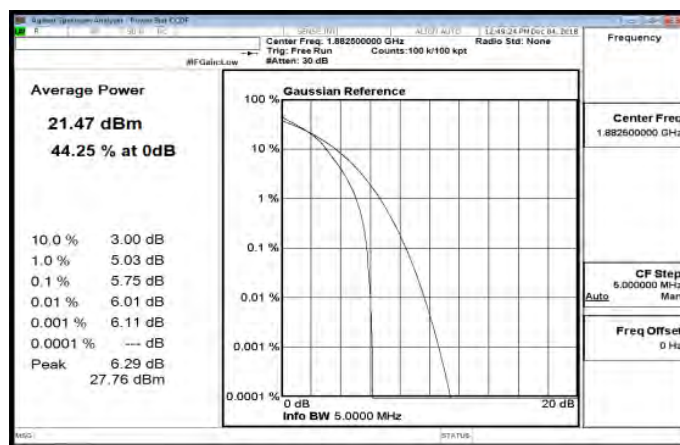
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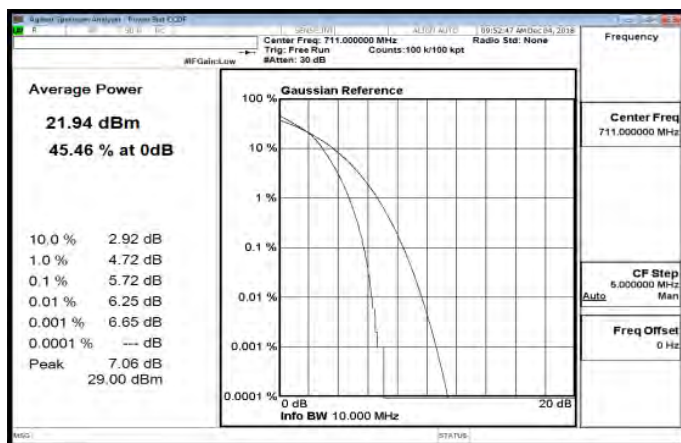
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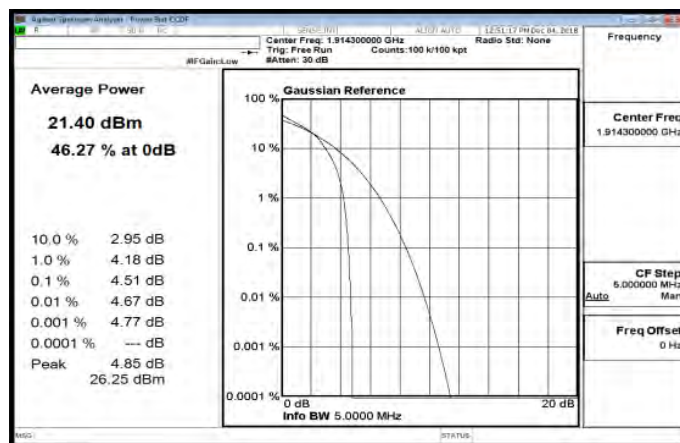
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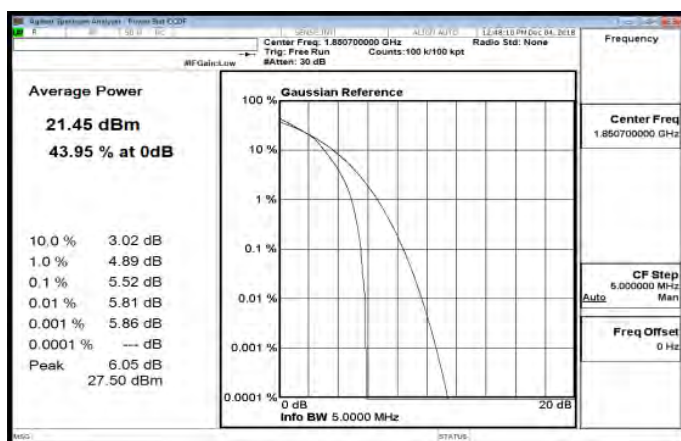
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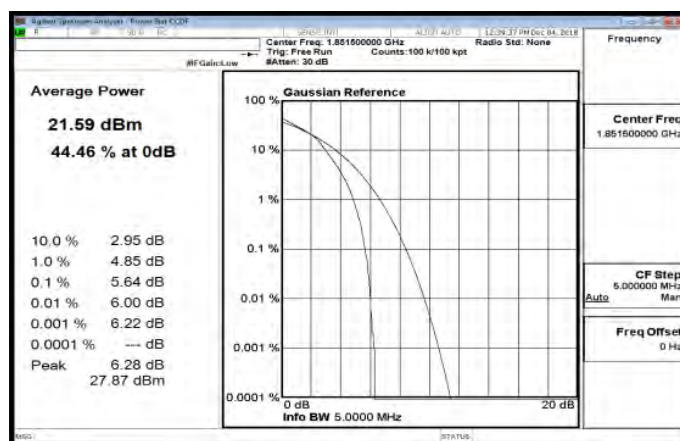
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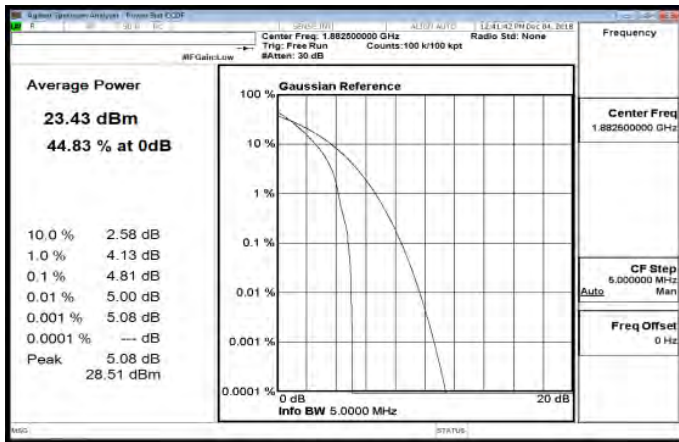
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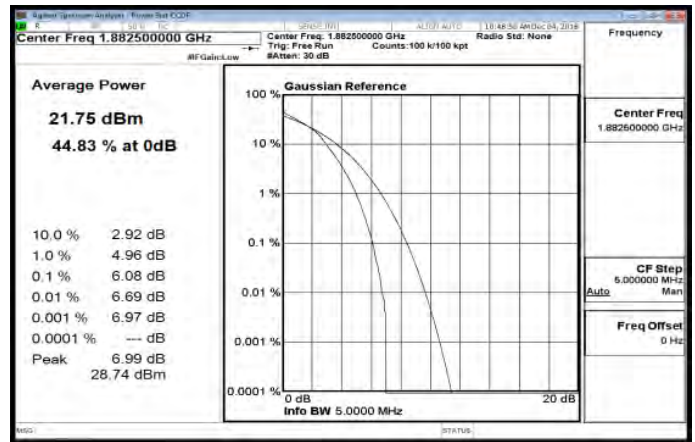
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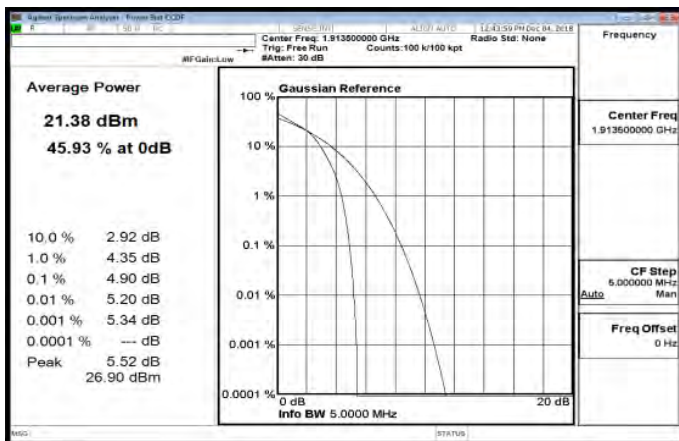
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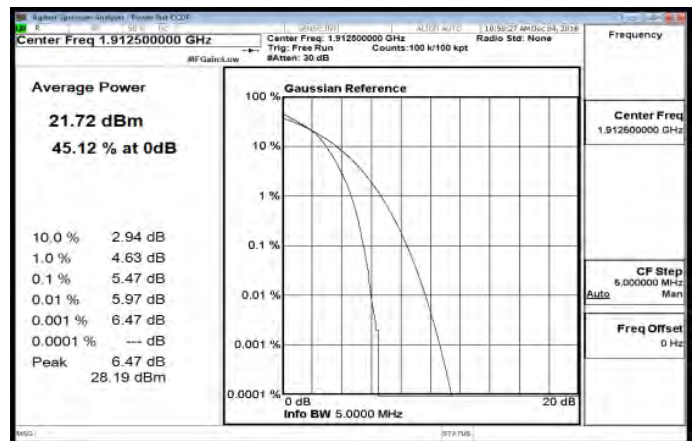
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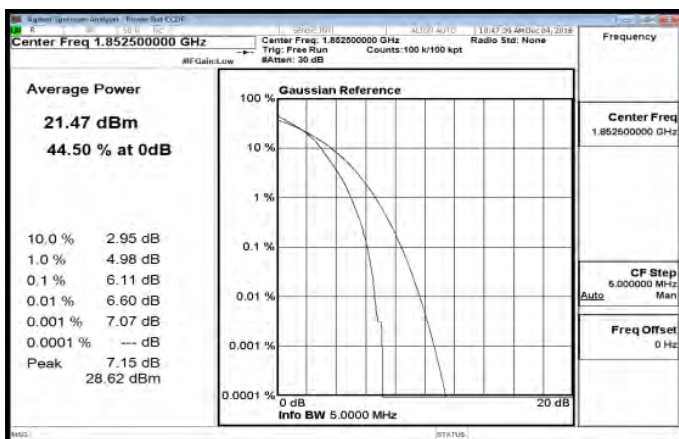
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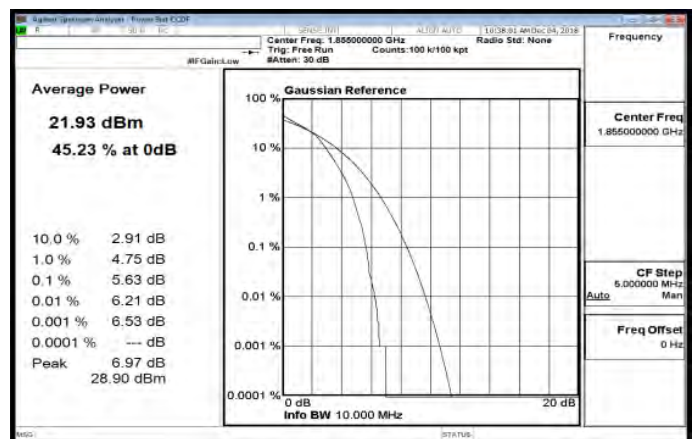
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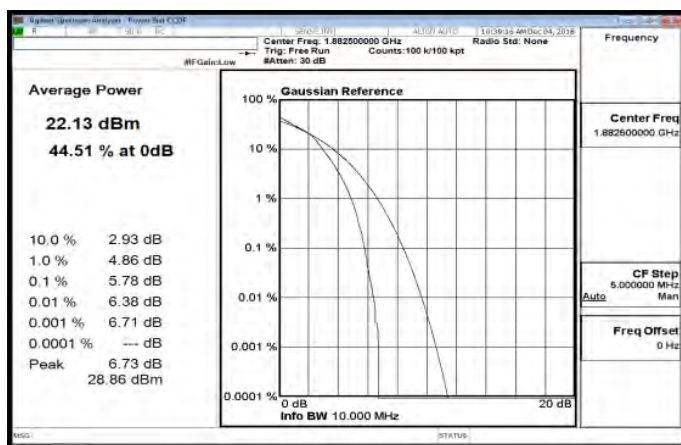
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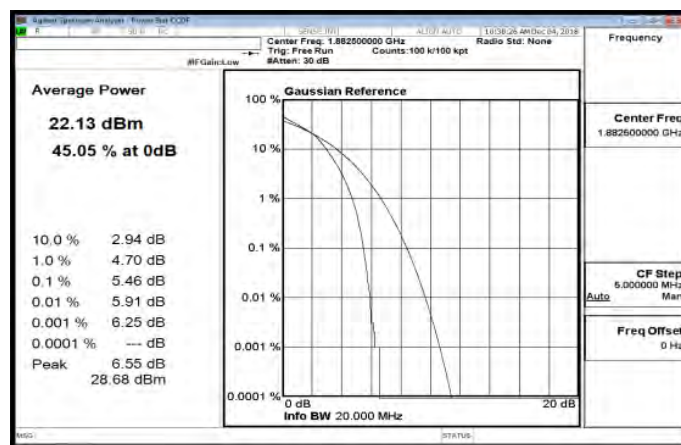
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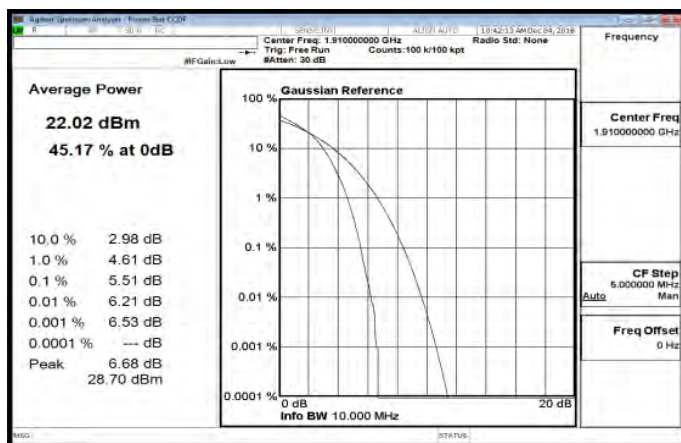
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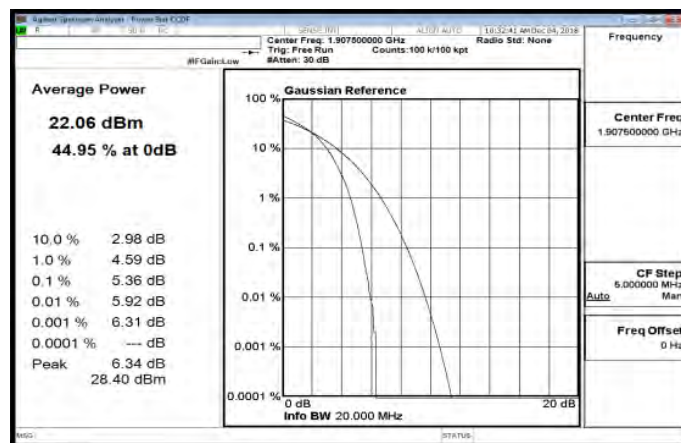
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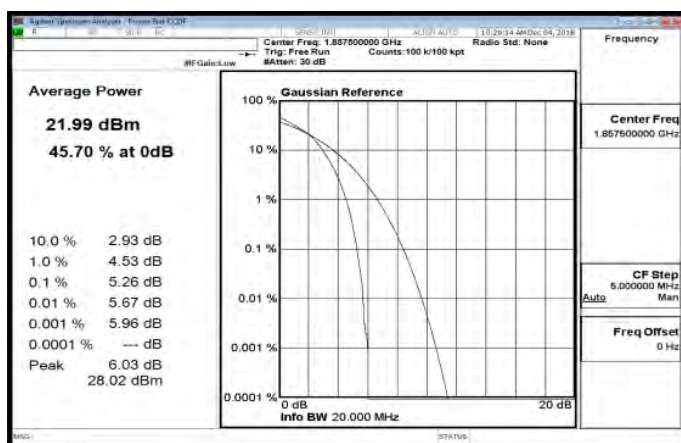
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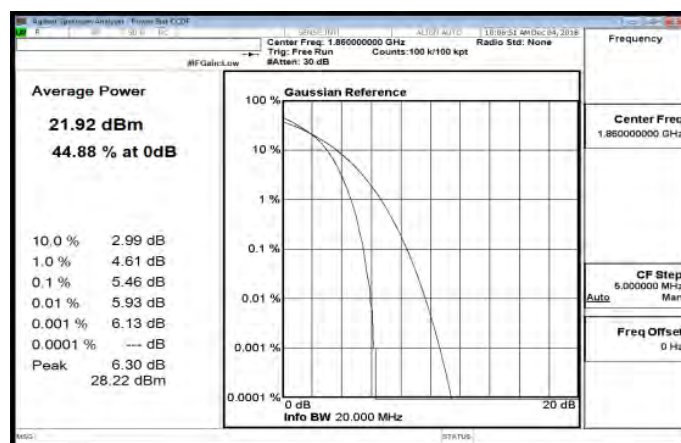
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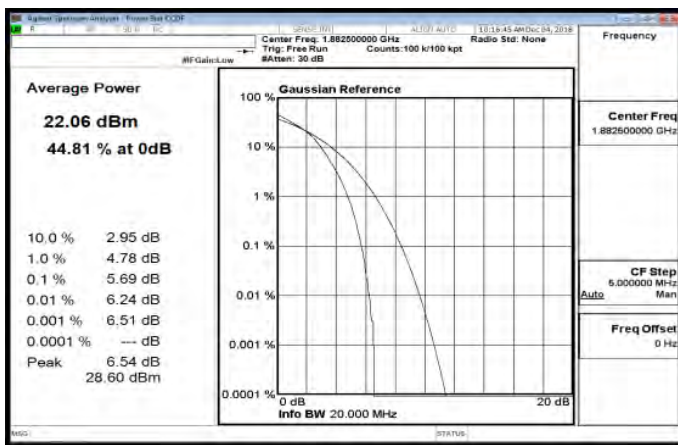
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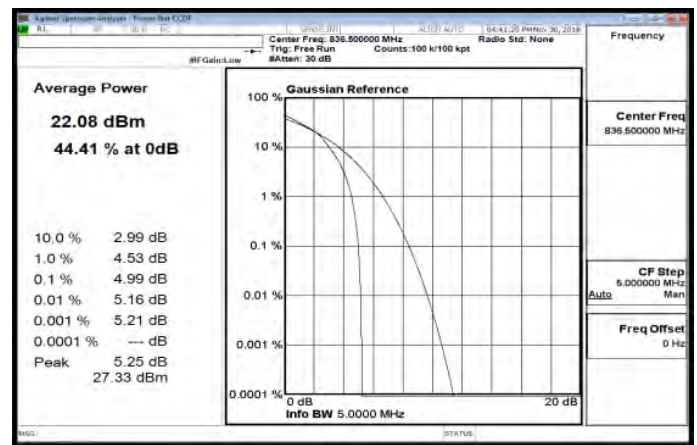
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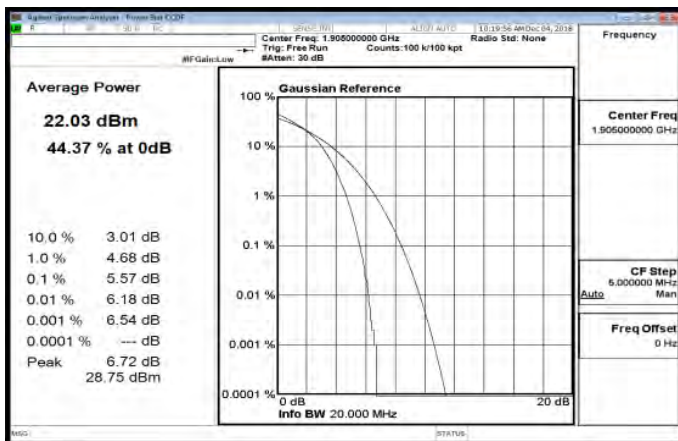
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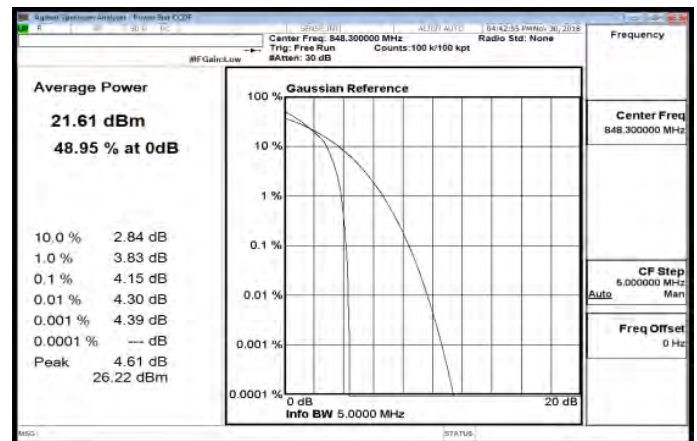
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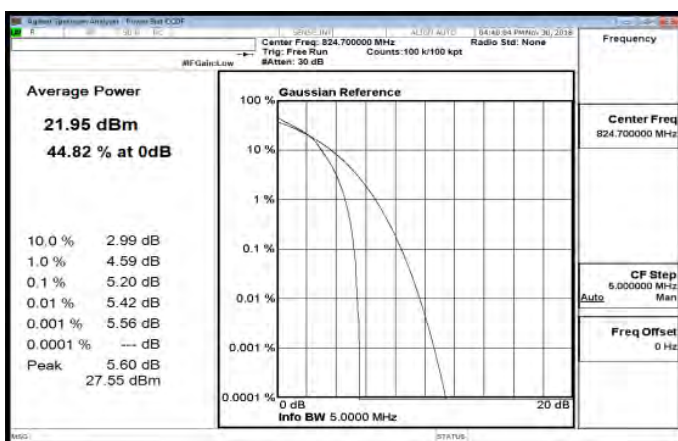
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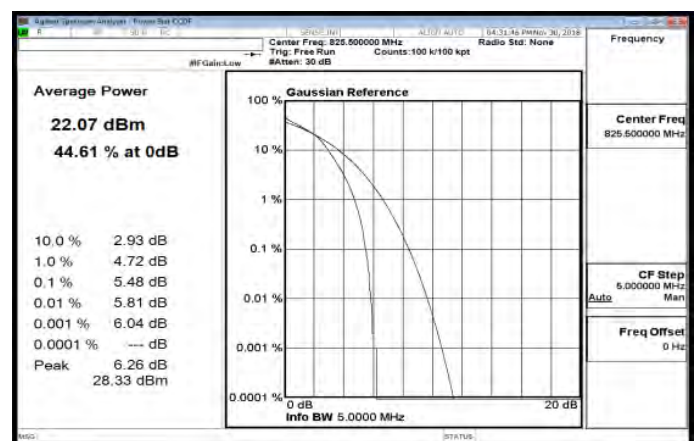
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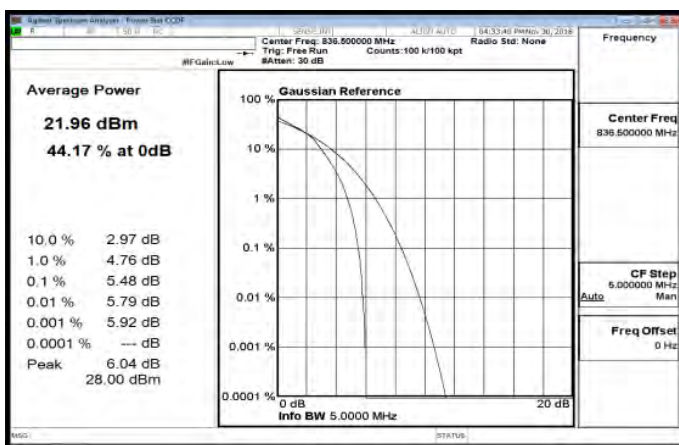
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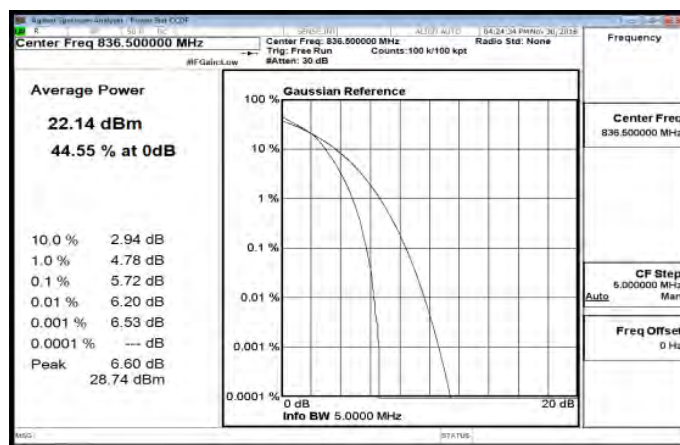
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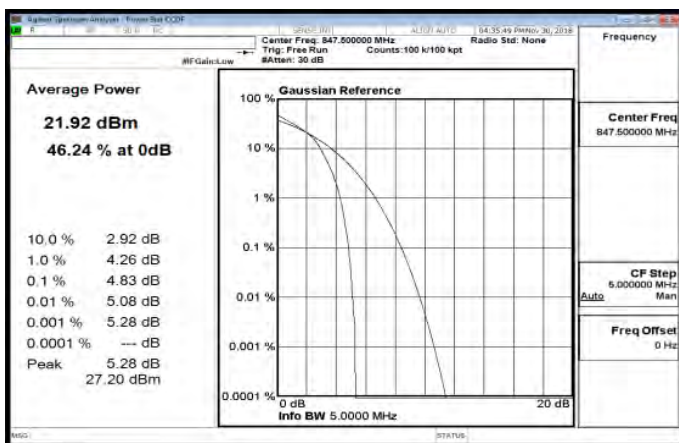
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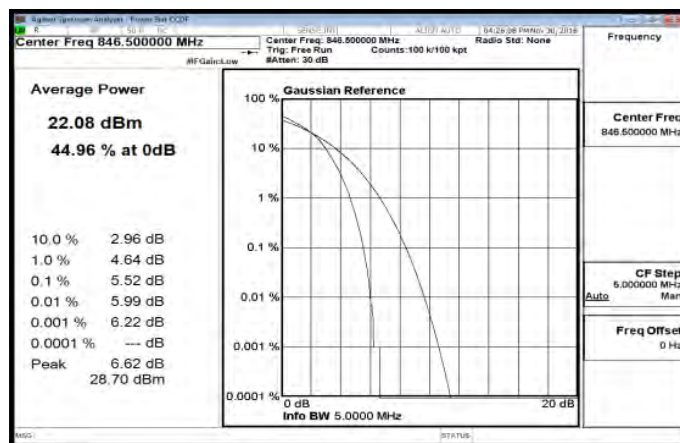
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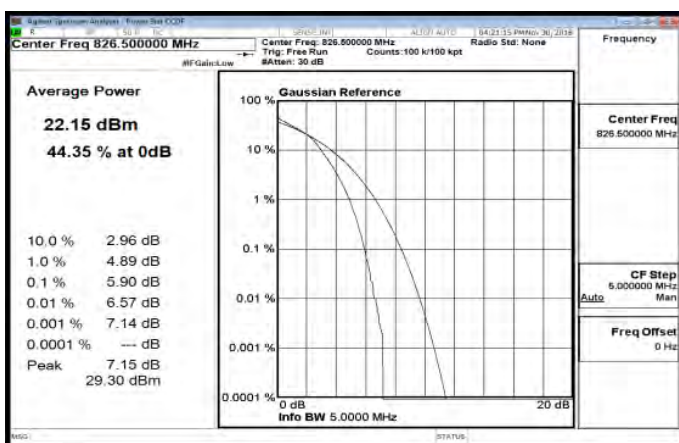
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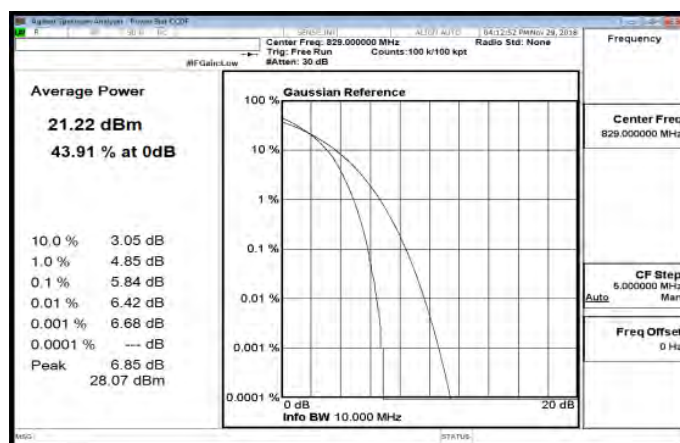
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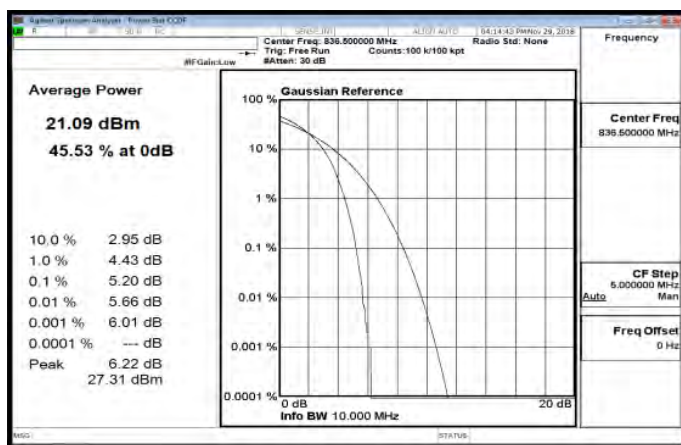
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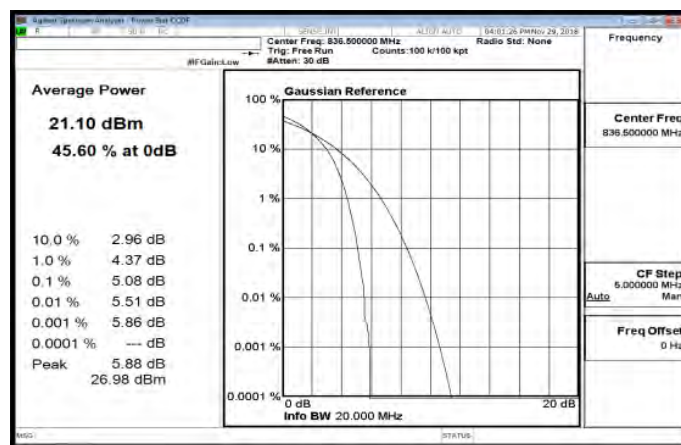
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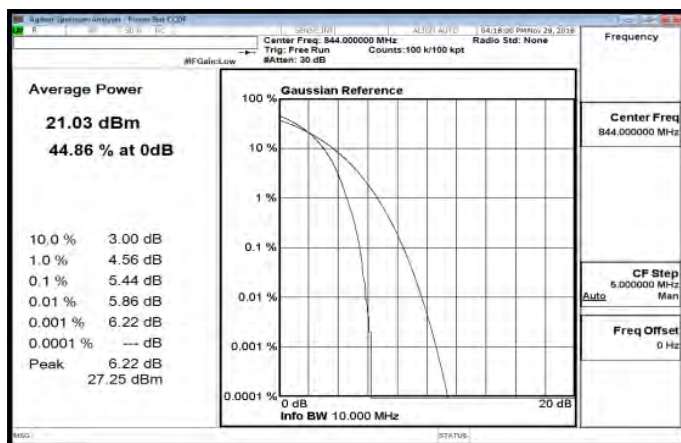
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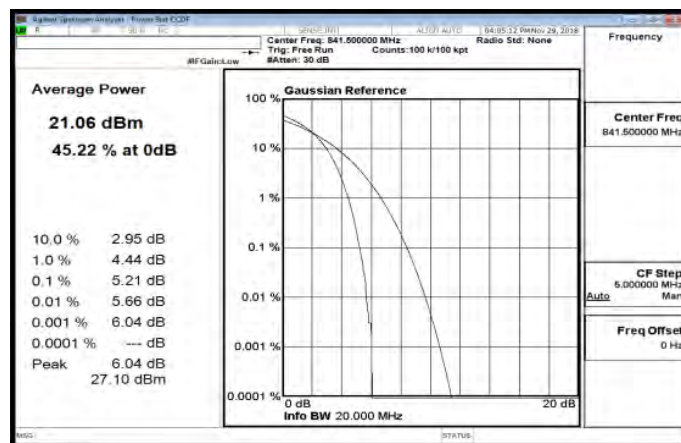
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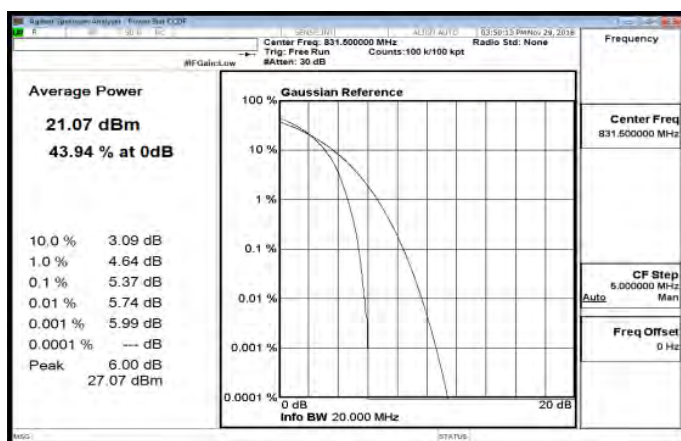
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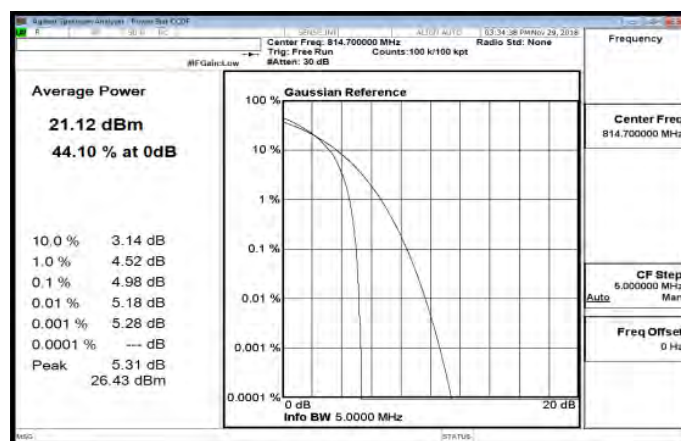
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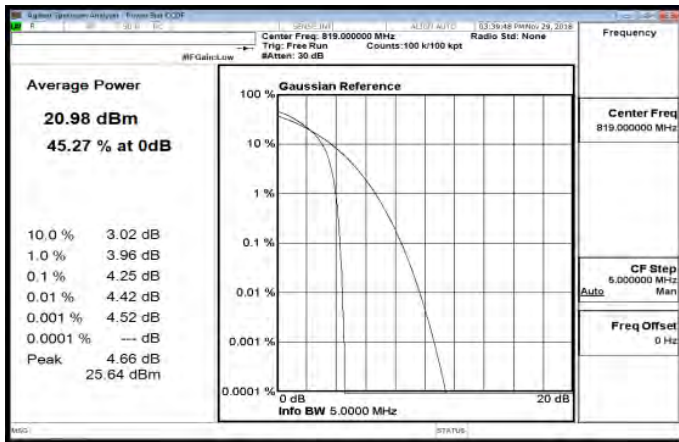
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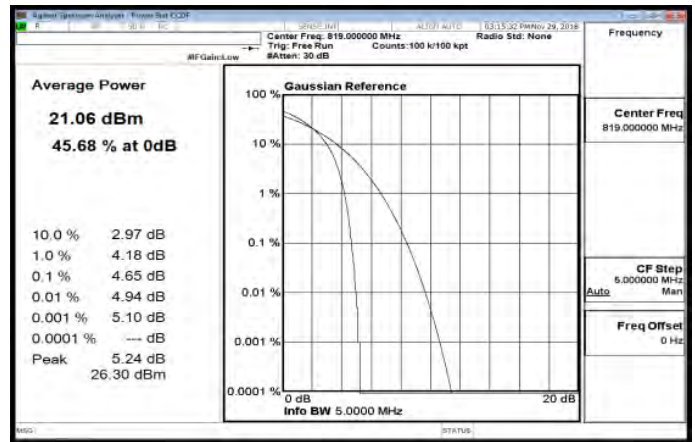
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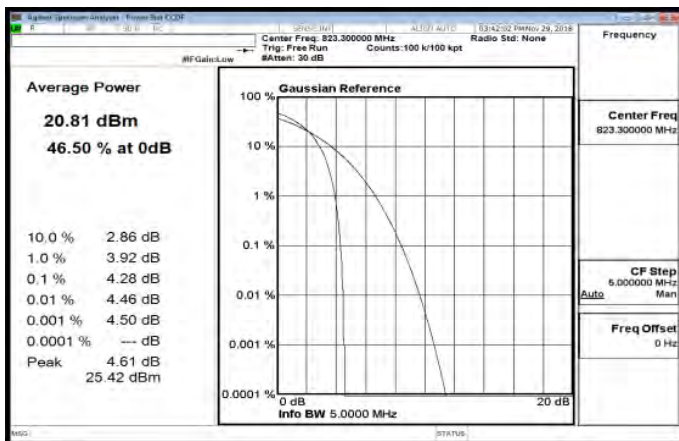
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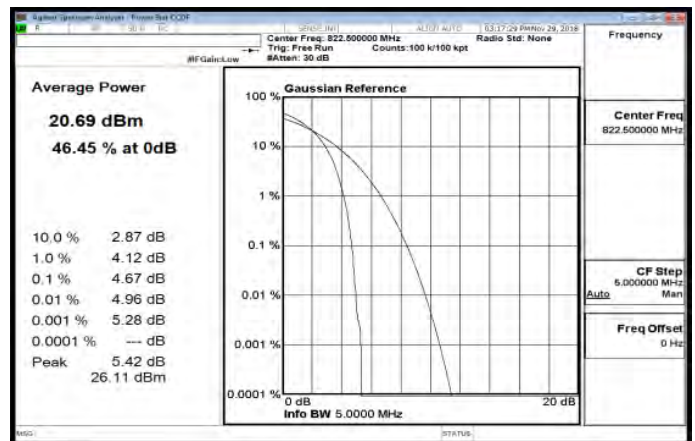
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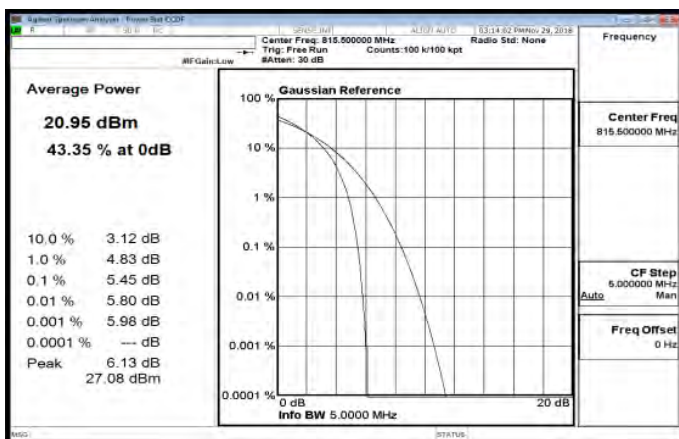
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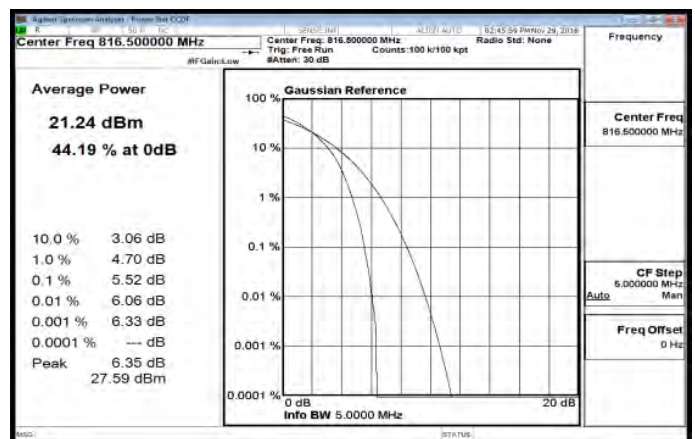
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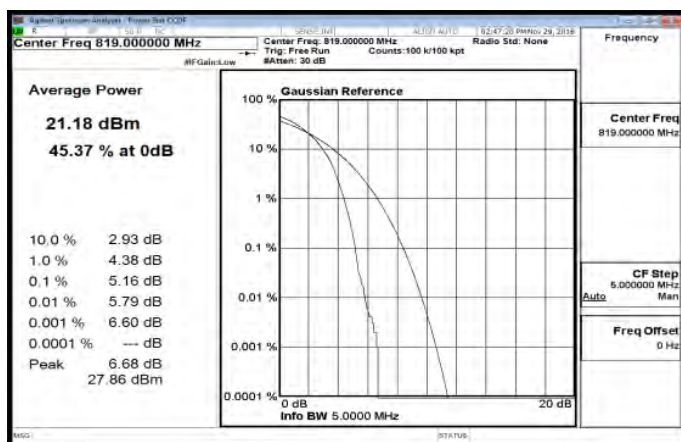
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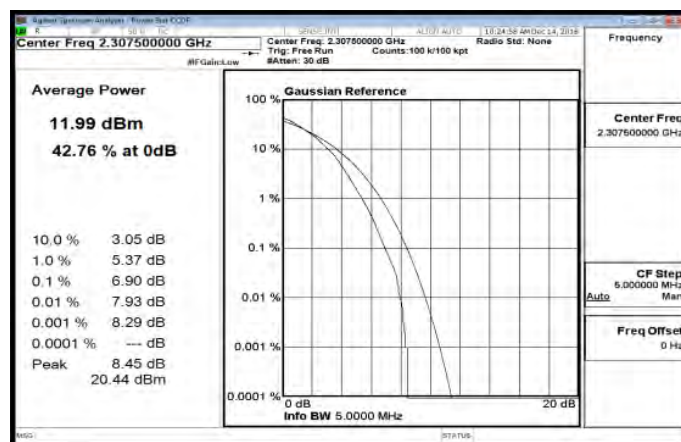
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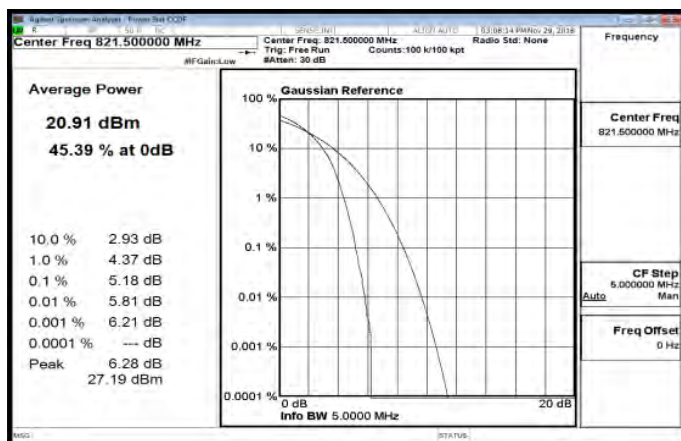
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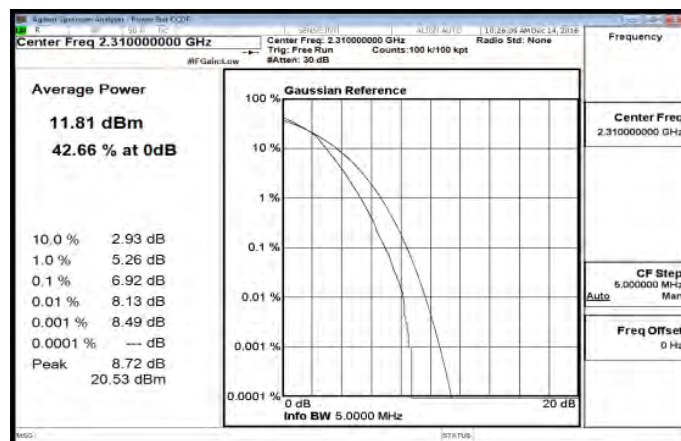
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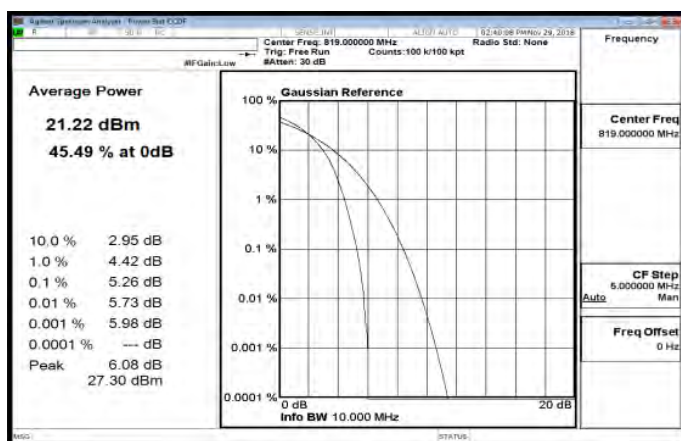
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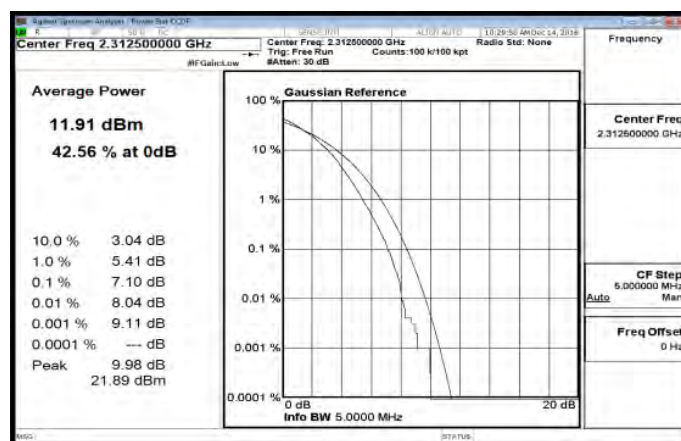
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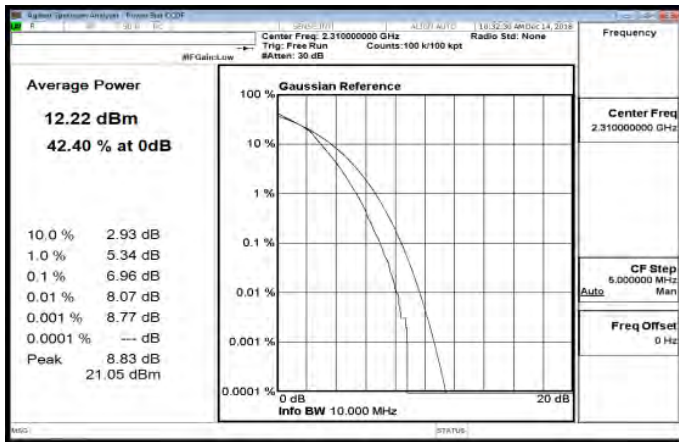
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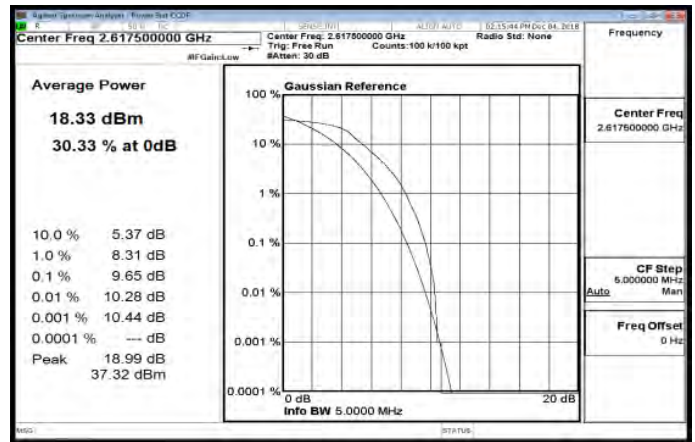
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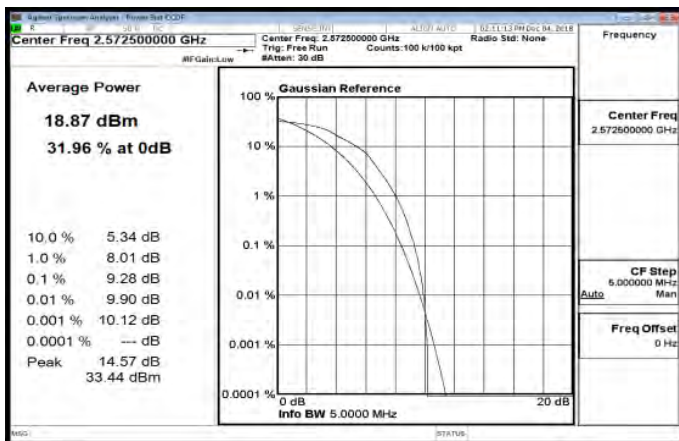
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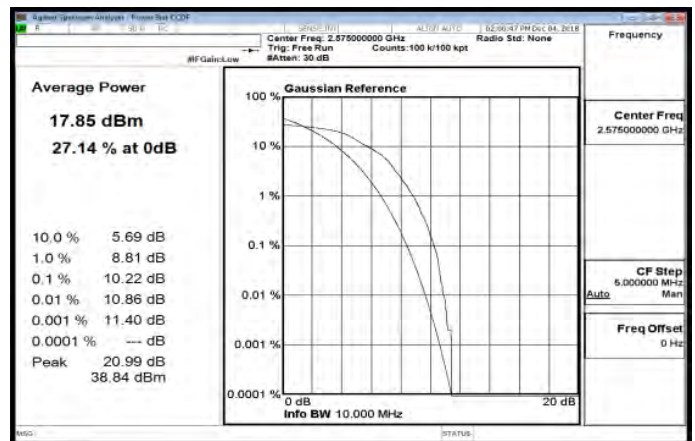
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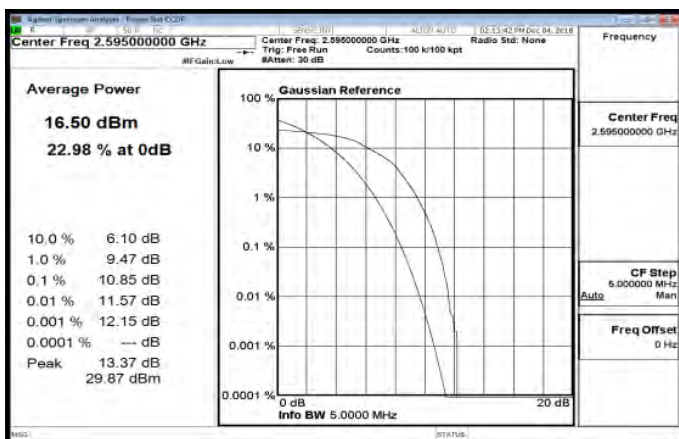
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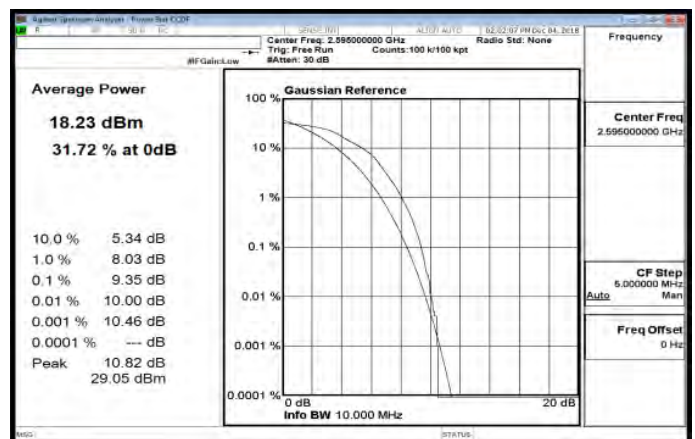
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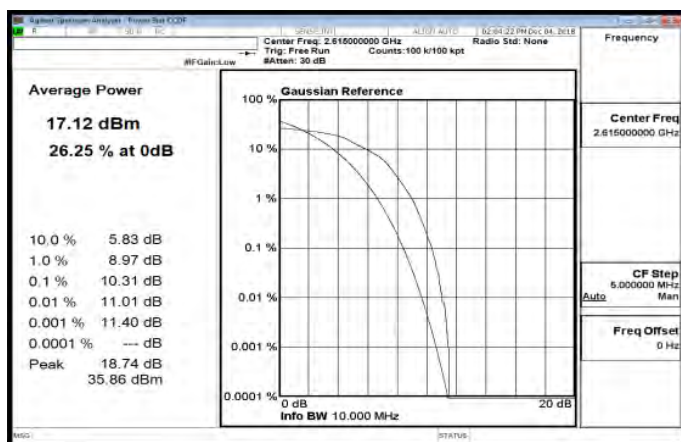
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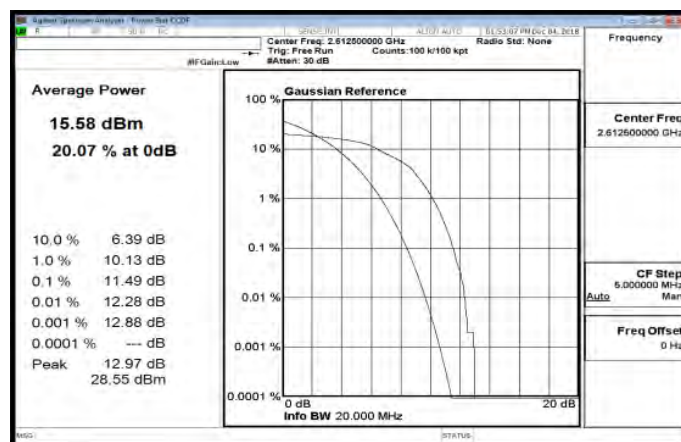
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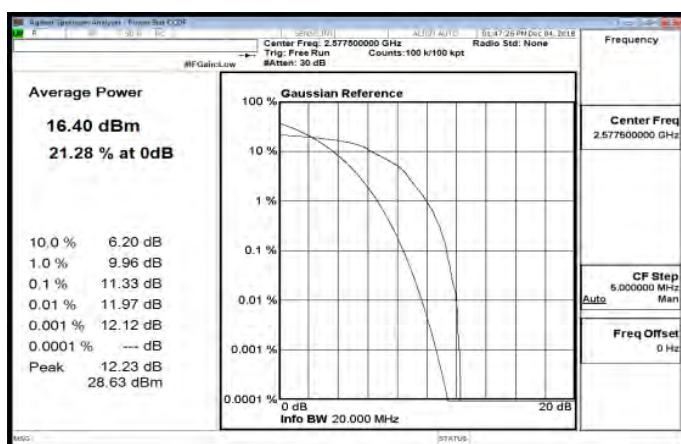
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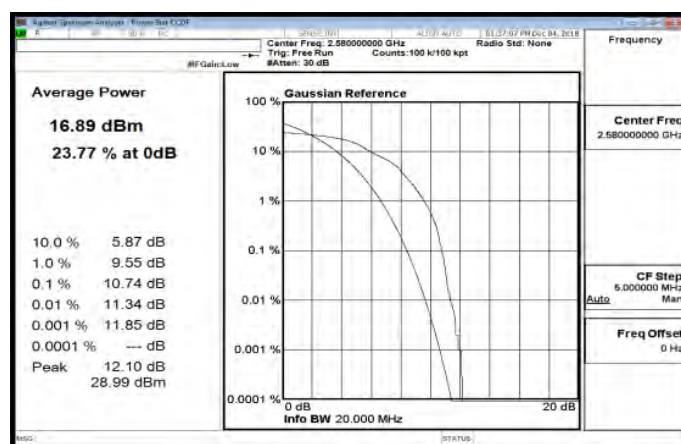
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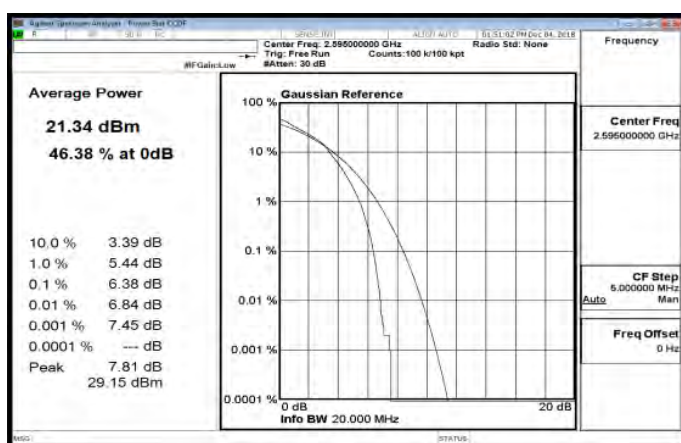
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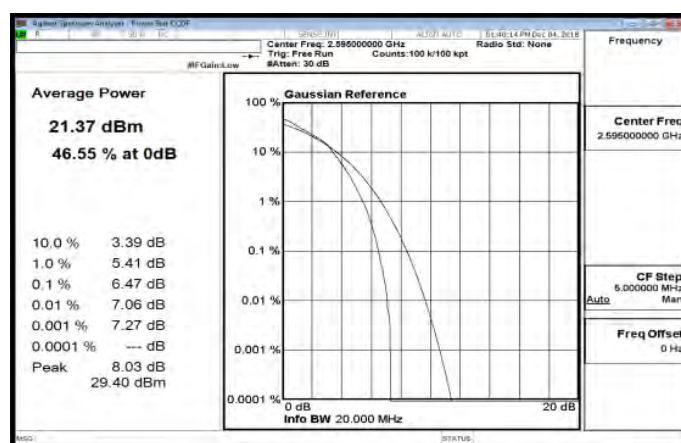
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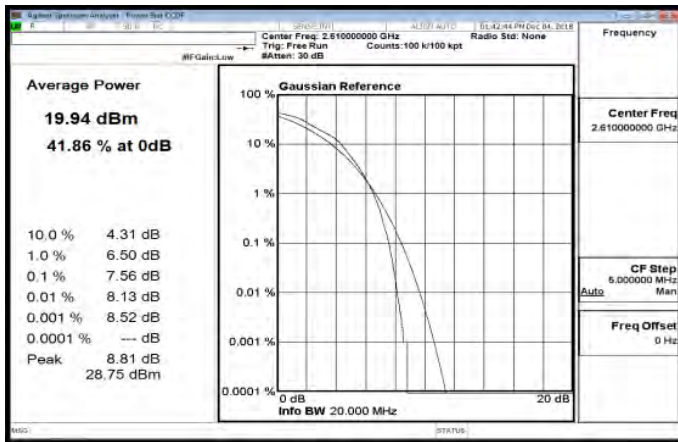
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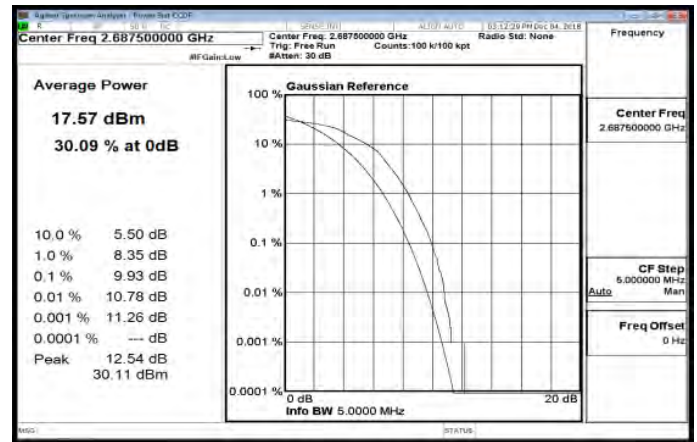
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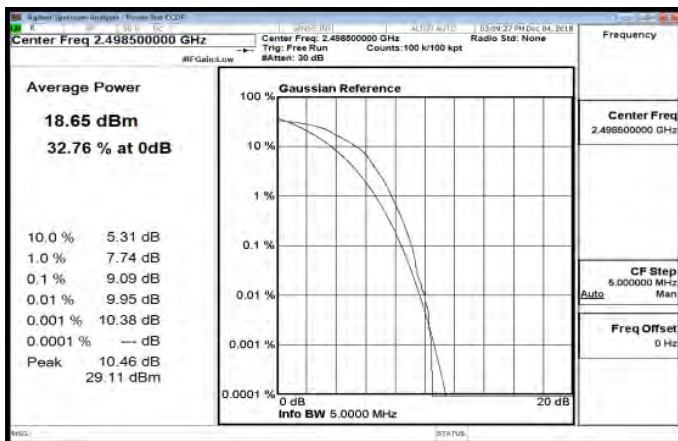
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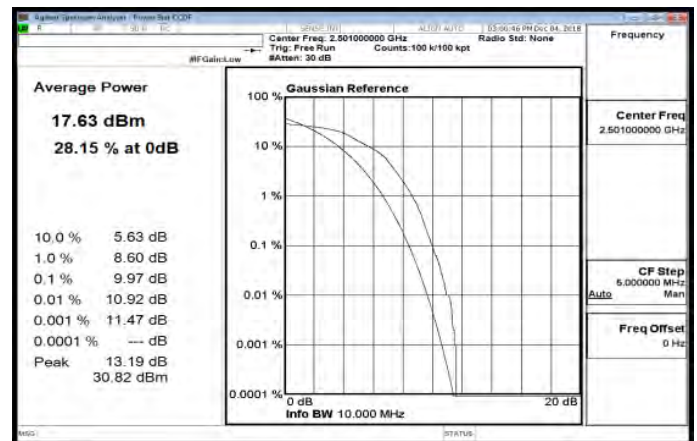
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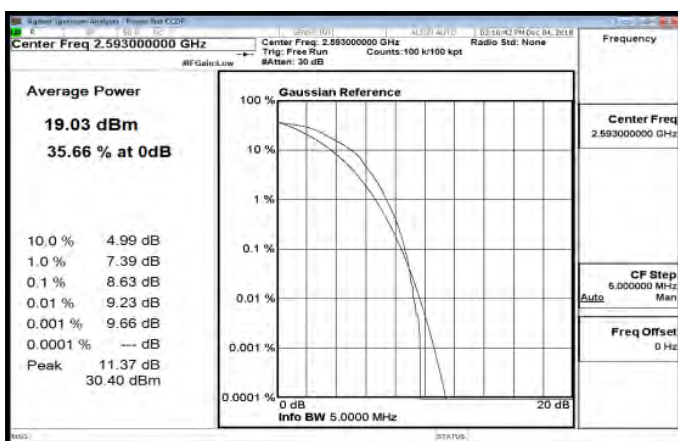
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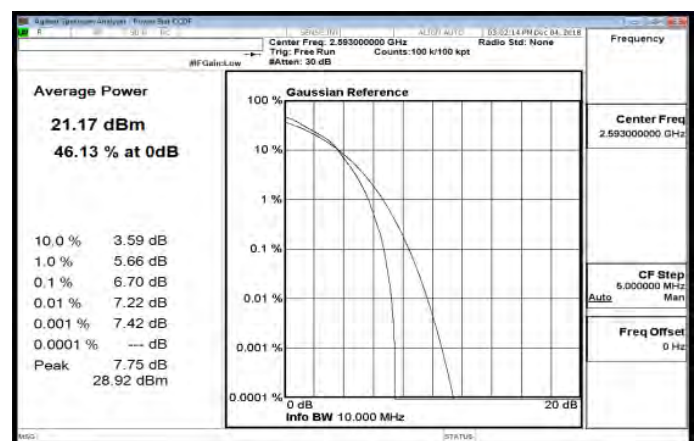
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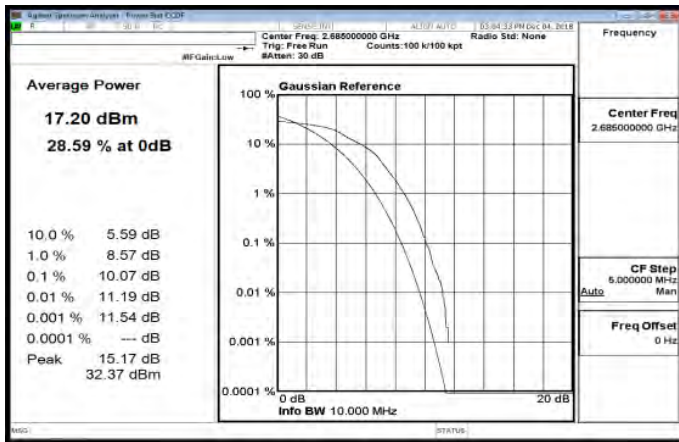
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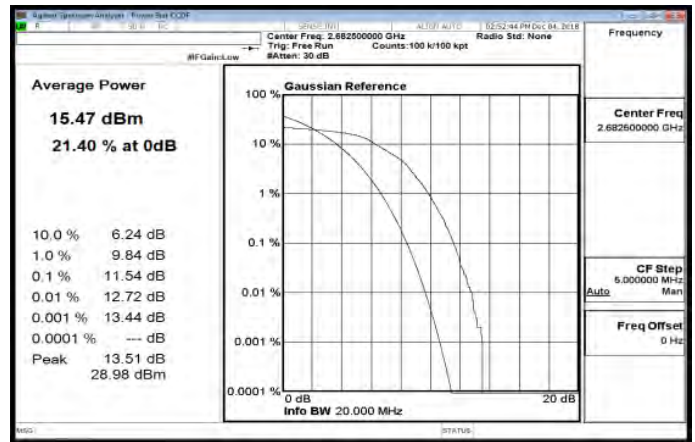
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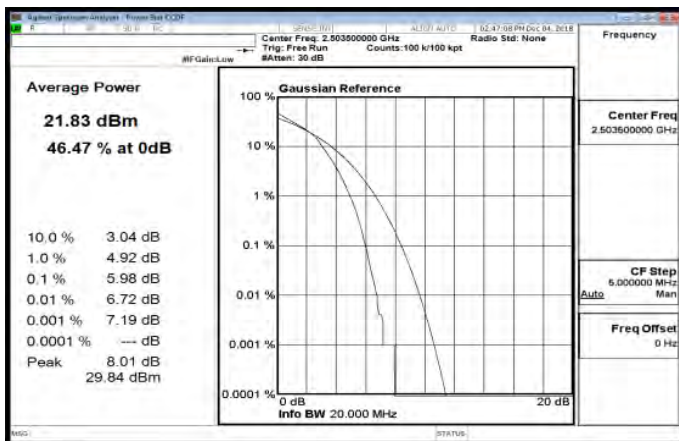
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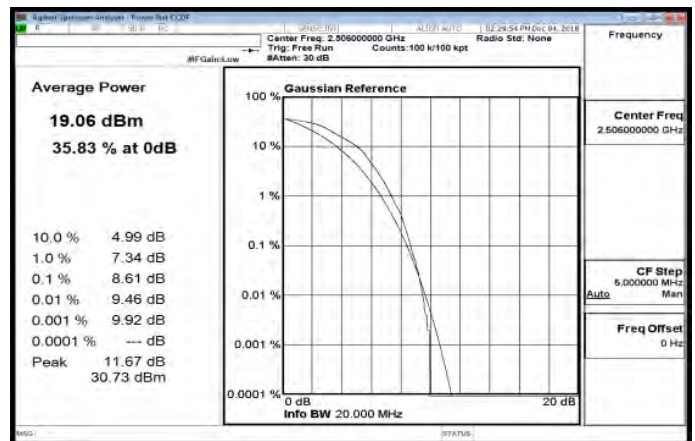
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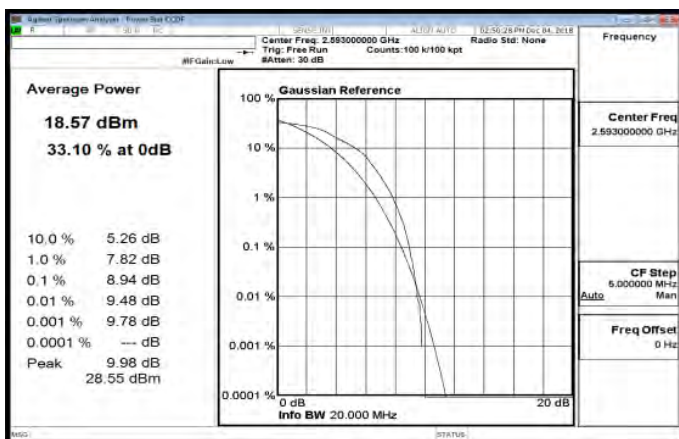
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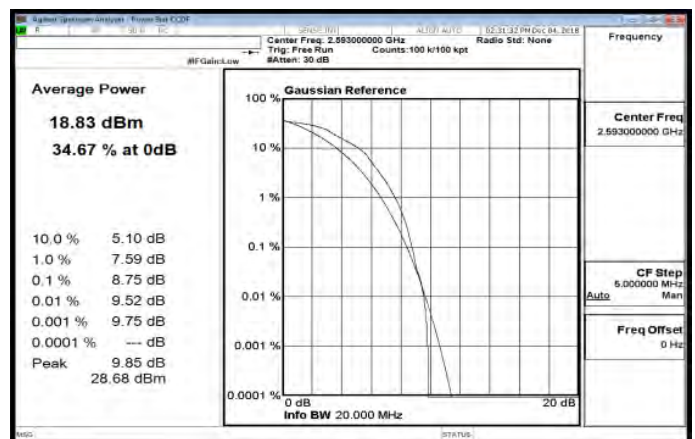
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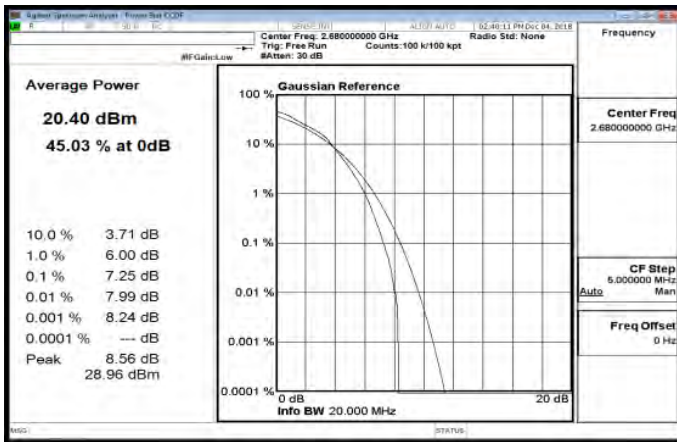
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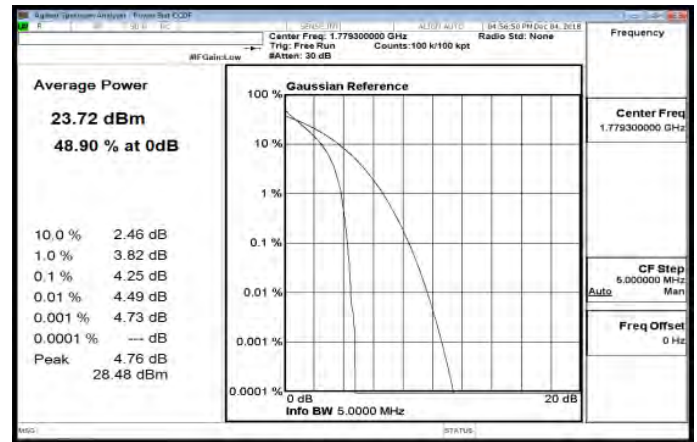
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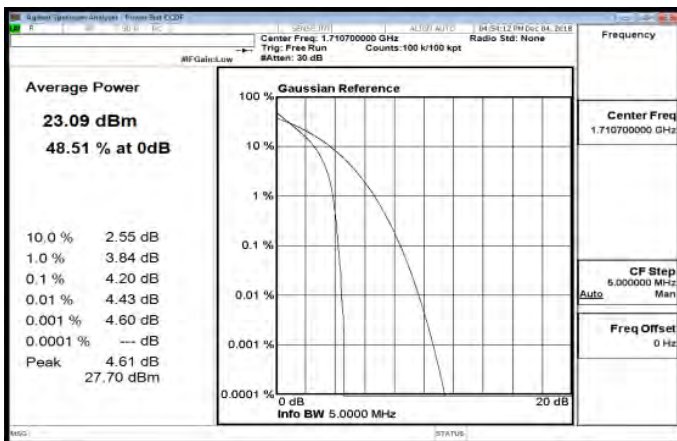
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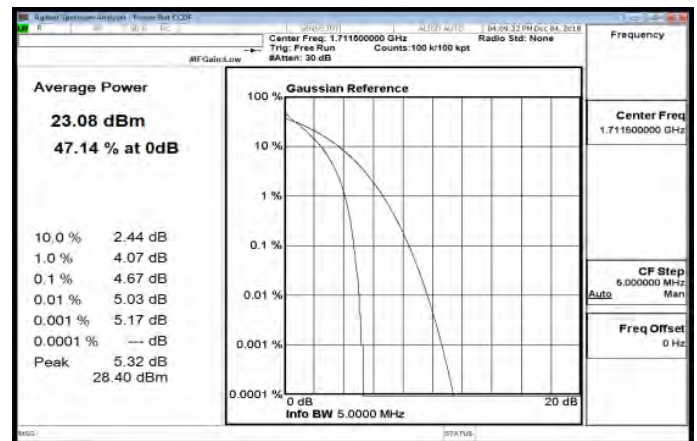
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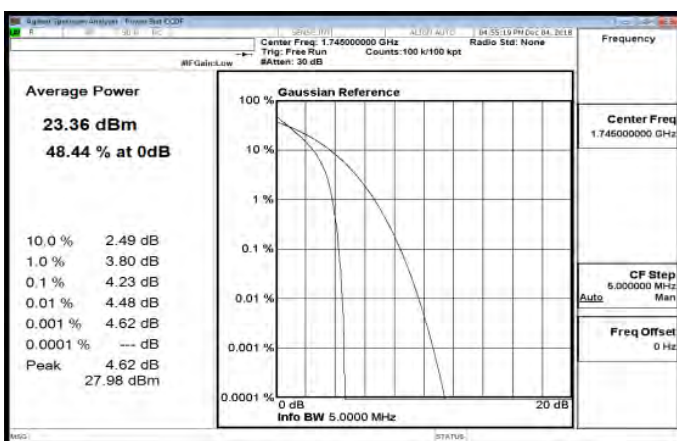
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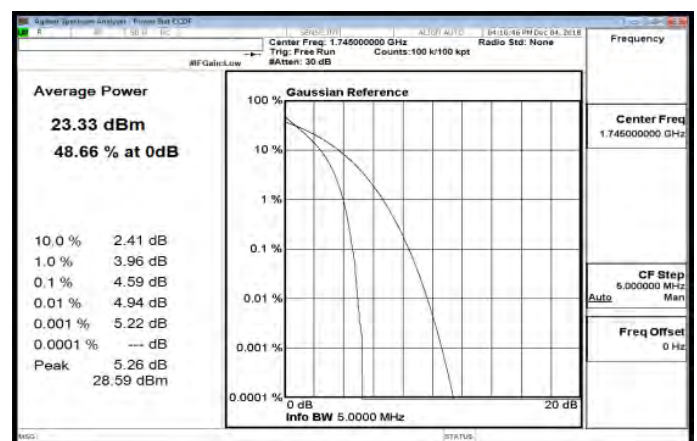
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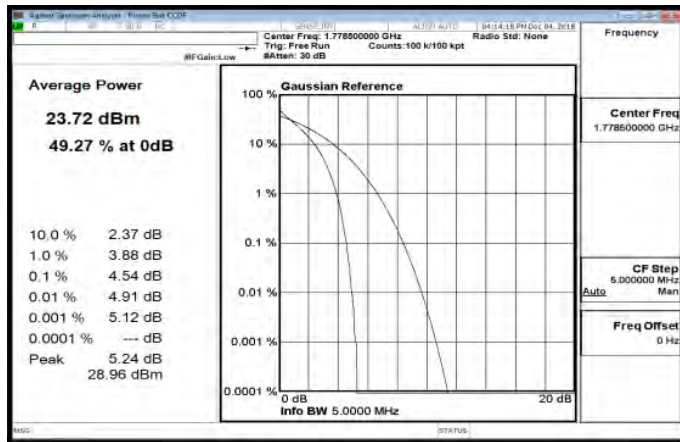
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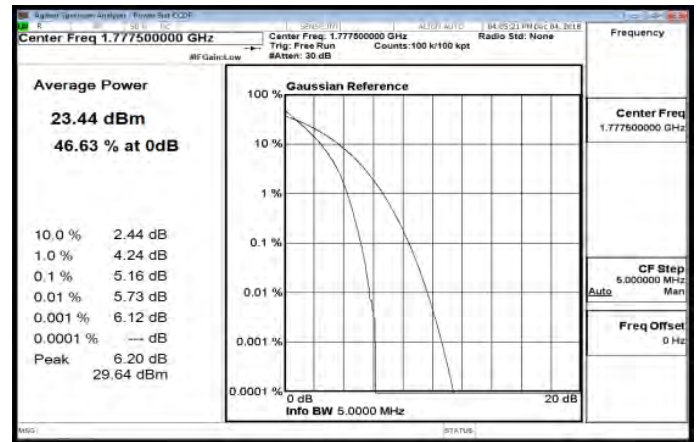
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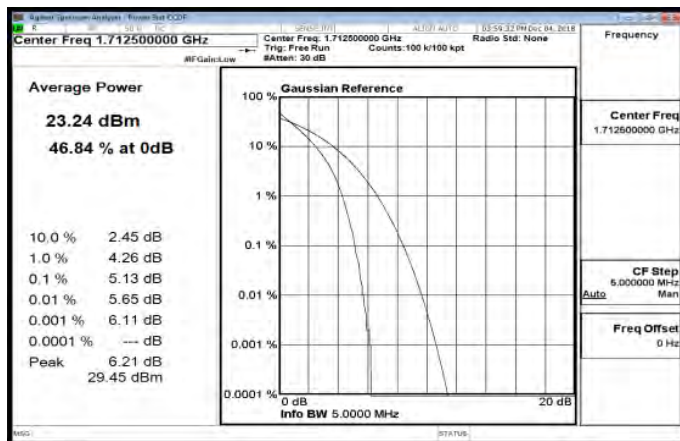
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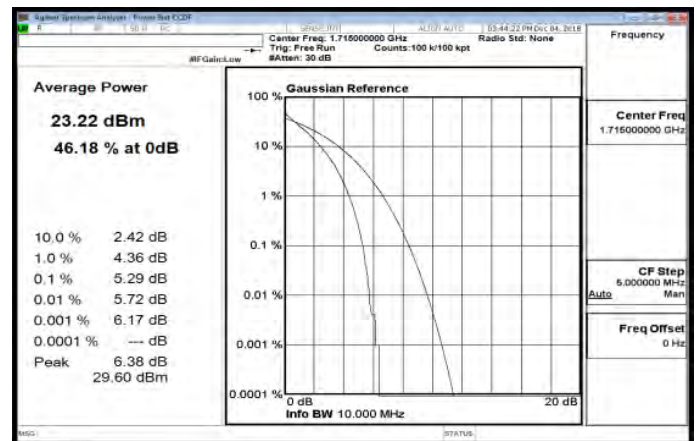
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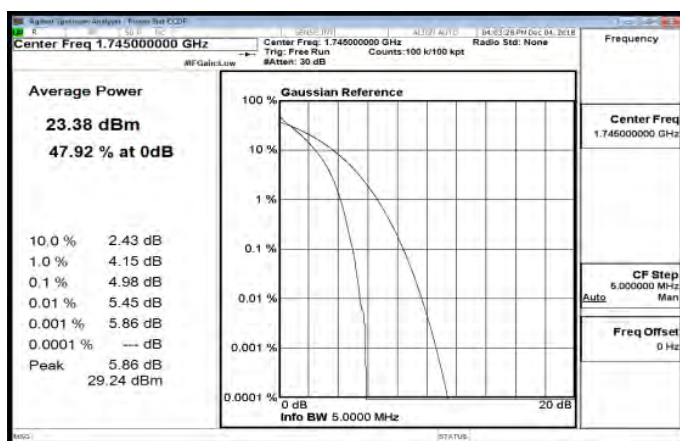
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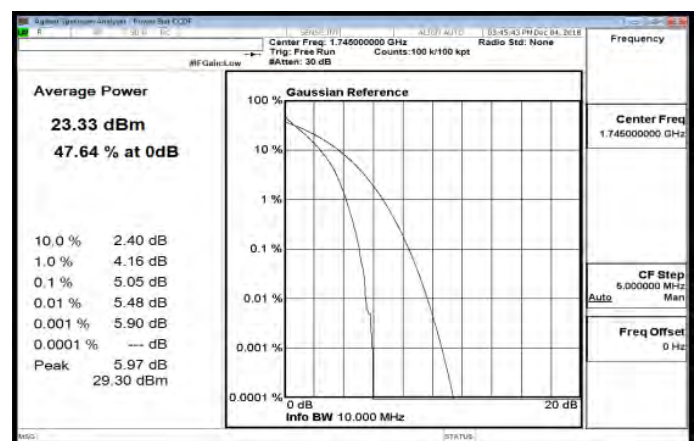
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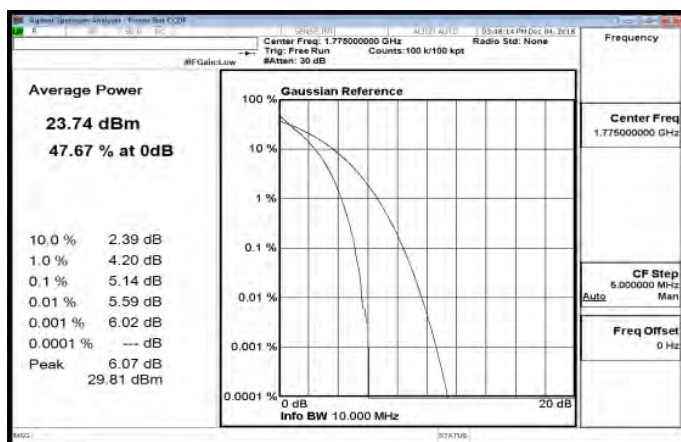
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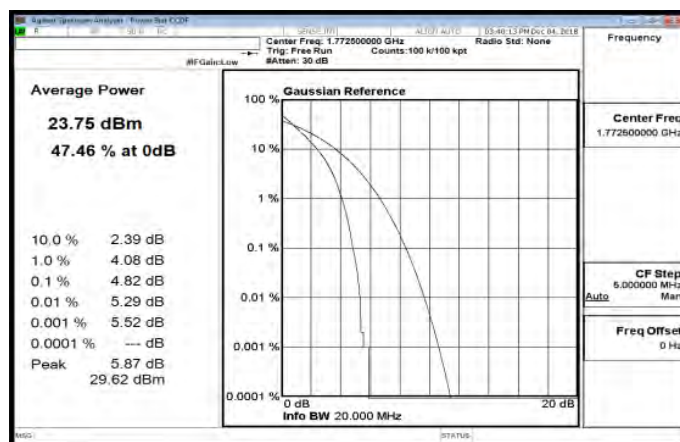
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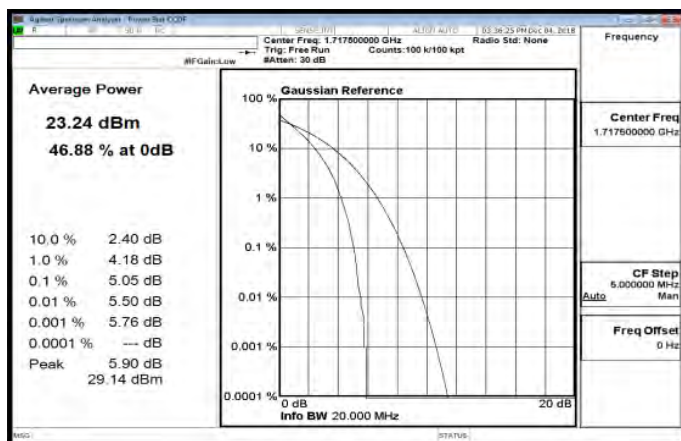
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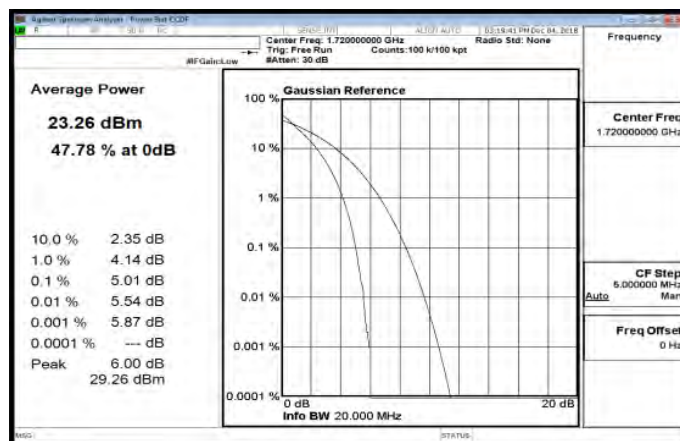
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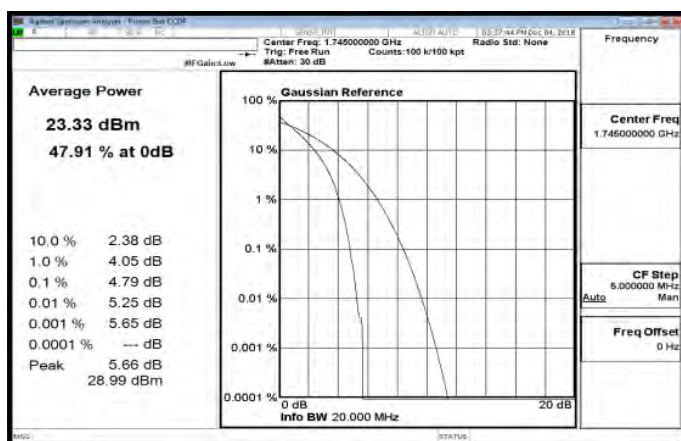
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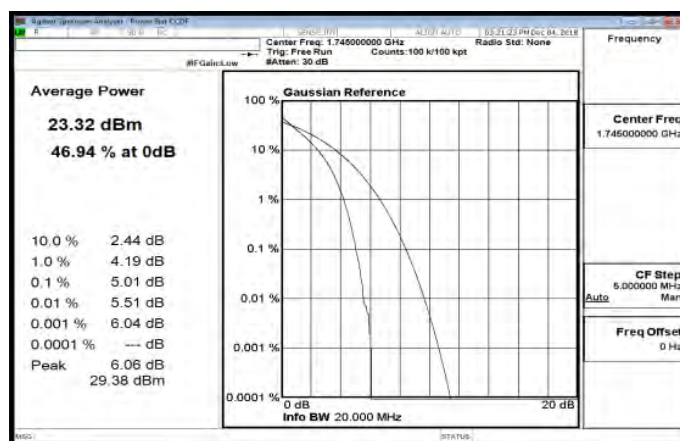
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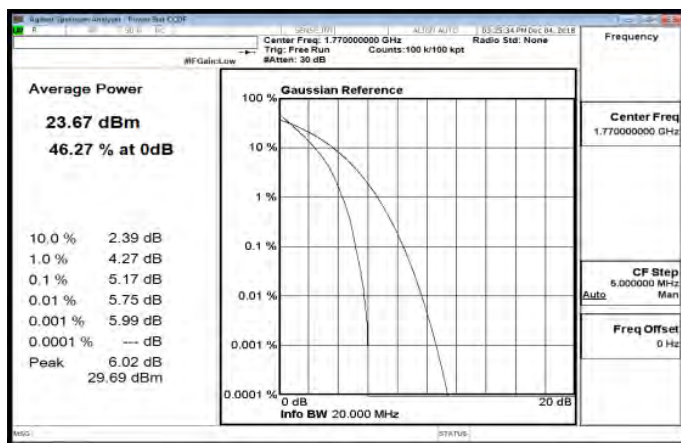
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LTE_Band66_20MHz_64QAM_100_0_HighCH132572-1770



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