

Appendix B: Peak-to-Average Ratio LTE Band 7 Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	2.94	<13	PASS
		1	12	3.1	<13	PASS
		1	24	3.25	<13	PASS
		12	0	4.31	<13	PASS
		12	6	4.32	<13	PASS
		12	13	4.53	<13	PASS
	MCH	25	0	4.89	<13	PASS
		1	0	3.78	<13	PASS
		1	12	3.83	<13	PASS
		1	24	3.97	<13	PASS
		12	0	4.91	<13	PASS
		12	6	4.92	<13	PASS
		12	13	5.05	<13	PASS
		25	0	5.29	<13	PASS
		HCH	1	0	4.19	<13
	1		12	4.06	<13	PASS
	1		24	4.23	<13	PASS
	12		0	5.18	<13	PASS
	12		6	5.12	<13	PASS
	12		13	5.2	<13	PASS
	25		0	5.44	<13	PASS
16QAM	LCH	1	0	3.81	<13	PASS
		1	12	4.04	<13	PASS
		1	24	4.23	<13	PASS
		12	0	5.19	<13	PASS
		12	6	5.17	<13	PASS
		12	13	5.37	<13	PASS
	MCH	25	0	5.6	<13	PASS
		1	0	4.39	<13	PASS
		1	12	4.47	<13	PASS
		1	24	4.67	<13	PASS
		12	0	5.85	<13	PASS
		12	6	5.88	<13	PASS
	HCH	12	13	5.95	<13	PASS
		25	0	6.03	<13	PASS
		1	0	5.12	<13	PASS
		1	12	5.06	<13	PASS
		1	24	5.1	<13	PASS
		12	0	5.89	<13	PASS
		12	6	5.87	<13	PASS
		12	13	5.94	<13	PASS
	25	0	6.15	<13	PASS	

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict

		Size	Offset	[dB]	[dB]		
QPSK	LCH	1	0	3.06	<13	PASS	
		1	24	3.37	<13	PASS	
		1	49	3.93	<13	PASS	
		25	0	4.68	<13	PASS	
		25	12	4.68	<13	PASS	
		25	25	5.02	<13	PASS	
	MCH	50	0	5.21	<13	PASS	
		1	0	3.72	<13	PASS	
		1	24	3.86	<13	PASS	
		1	49	4.04	<13	PASS	
		25	0	5.01	<13	PASS	
		25	12	5.02	<13	PASS	
	HCH	25	25	5.16	<13	PASS	
		50	0	5.34	<13	PASS	
		1	0	4.09	<13	PASS	
		1	24	4.02	<13	PASS	
		1	49	4.02	<13	PASS	
		25	0	5.17	<13	PASS	
	16QAM	LCH	25	12	5.17	<13	PASS
			25	25	5.28	<13	PASS
			50	0	5.43	<13	PASS
1			0	3.8	<13	PASS	
1			24	4.13	<13	PASS	
1			49	4.66	<13	PASS	
MCH		25	0	5.5	<13	PASS	
		25	12	5.56	<13	PASS	
		25	25	5.83	<13	PASS	
		50	0	5.87	<13	PASS	
		1	0	4.52	<13	PASS	
		1	24	4.67	<13	PASS	
HCH		1	49	4.83	<13	PASS	
		25	0	5.81	<13	PASS	
		25	12	5.82	<13	PASS	
		25	25	6.01	<13	PASS	
		50	0	6.04	<13	PASS	
		1	0	4.97	<13	PASS	
HCH		1	24	4.96	<13	PASS	
		1	49	4.93	<13	PASS	
		25	0	5.94	<13	PASS	
	25	12	5.9	<13	PASS		
	25	25	6.07	<13	PASS		
	50	0	6.08	<13	PASS		

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	9.87	<13	PASS
		1	37	3.65	<13	PASS
		1	74	9.12	<13	PASS
		37	0	4.65	<13	PASS
		37	18	5.06	<13	PASS
		37	38	4.7	<13	PASS
		75	0	5.08	<13	PASS
	MCH	1	0	9.69	<13	PASS
		1	37	3.81	<13	PASS
		1	74	9.48	<13	PASS
		37	0	4.55	<13	PASS
		37	18	5.17	<13	PASS
		37	38	4.7	<13	PASS
		37	38	4.7	<13	PASS

	HCH	75	0	4.95	<13	PASS
		1	0	9.35	<13	PASS
		1	37	4.18	<13	PASS
		1	74	9.28	<13	PASS
		37	0	4.51	<13	PASS
		37	18	5.18	<13	PASS
		37	38	4.63	<13	PASS
16QAM	LCH	75	0	4.9	<13	PASS
		1	0	9.32	<13	PASS
		1	37	4.39	<13	PASS
		1	74	9.68	<13	PASS
		37	0	5.76	<13	PASS
		37	18	5.84	<13	PASS
		37	38	5.88	<13	PASS
	MCH	75	0	6.18	<13	PASS
		1	0	9.67	<13	PASS
		1	37	4.56	<13	PASS
		1	74	9.78	<13	PASS
		37	0	5.74	<13	PASS
		37	18	5.91	<13	PASS
		37	38	5.84	<13	PASS
	HCH	75	0	6.12	<13	PASS
		1	0	9.12	<13	PASS
		1	37	5.12	<13	PASS
		1	74	10.13	<13	PASS
		37	0	5.72	<13	PASS
		37	18	5.94	<13	PASS
		37	38	5.83	<13	PASS
	75	0	6.05	<13	PASS	

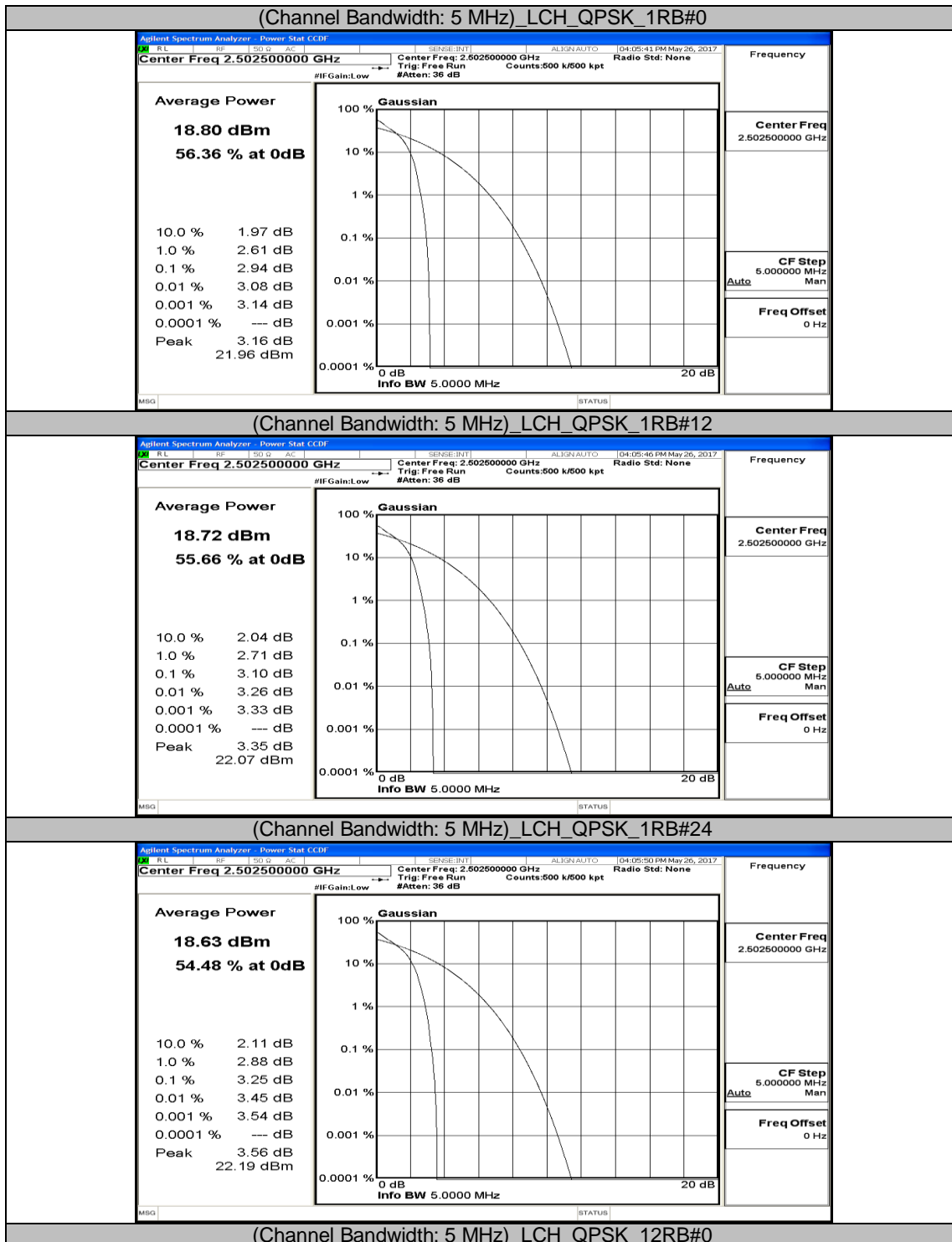
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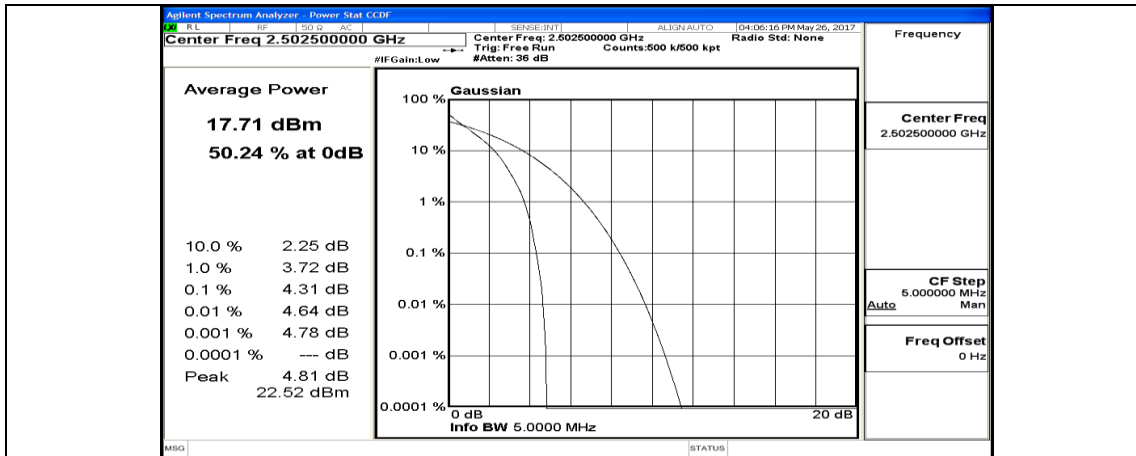
Channel Bandwidth: 20 MHz							
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict	
		Size	Offset				
QPSK	LCH	1	0	7.59	<13	PASS	
		1	49	3.83	<13	PASS	
		1	99	7.48	<13	PASS	
		50	0	5.59	<13	PASS	
		50	25	5.32	<13	PASS	
		50	50	5.68	<13	PASS	
		100	0	5.79	<13	PASS	
	MCH	1	0	7.31	<13	PASS	
		1	49	3.87	<13	PASS	
		1	99	7.33	<13	PASS	
		50	0	5.49	<13	PASS	
		50	25	5.33	<13	PASS	
		50	50	5.63	<13	PASS	
		100	0	5.7	<13	PASS	
	HCH	1	0	7.2	<13	PASS	
		1	49	4.27	<13	PASS	
		1	99	7.15	<13	PASS	
		50	0	5.34	<13	PASS	
		50	25	5.37	<13	PASS	
		50	50	5.63	<13	PASS	
		100	0	5.67	<13	PASS	
	16QAM	LCH	1	0	7.75	<13	PASS
			1	49	4.56	<13	PASS
			1	99	8.18	<13	PASS
			50	0	6.45	<13	PASS
			50	25	6.06	<13	PASS
			50	50	6.56	<13	PASS

		100	0	6.77	<13	PASS
	MCH	1	0	7.44	<13	PASS
		1	49	4.43	<13	PASS
		1	99	7.35	<13	PASS
		50	0	6.5	<13	PASS
		50	25	6.06	<13	PASS
		50	50	6.48	<13	PASS
		100	0	6.72	<13	PASS
	HCH	1	0	7.91	<13	PASS
		1	49	4.99	<13	PASS
		1	99	7.53	<13	PASS
		50	0	6.36	<13	PASS
		50	25	6.02	<13	PASS
		50	50	6.44	<13	PASS
		100	0	6.56	<13	PASS

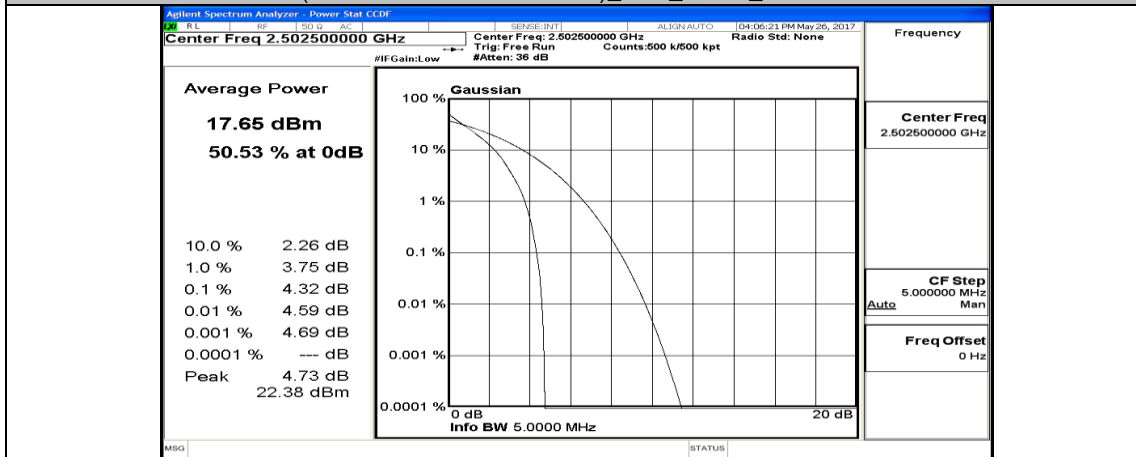
Test Graphs

Channel Bandwidth: 5 MHz

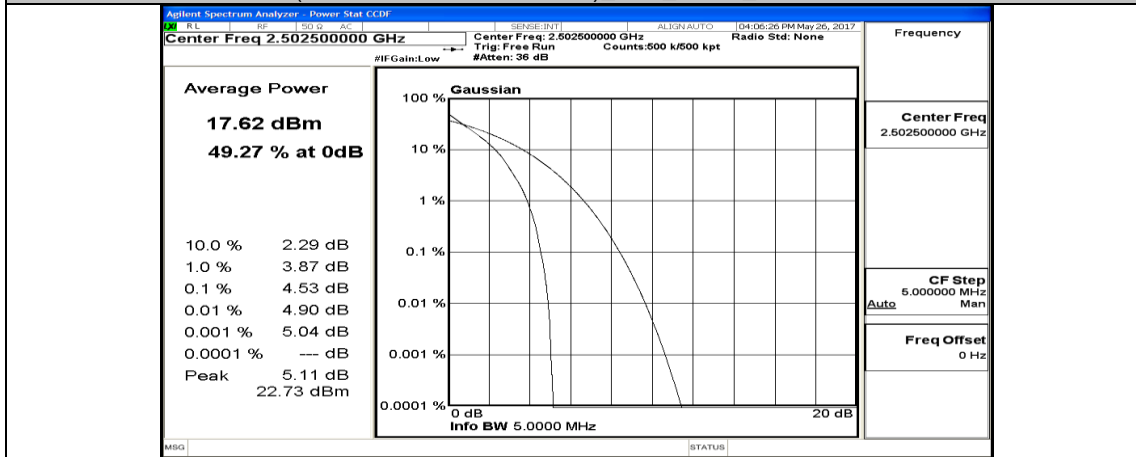




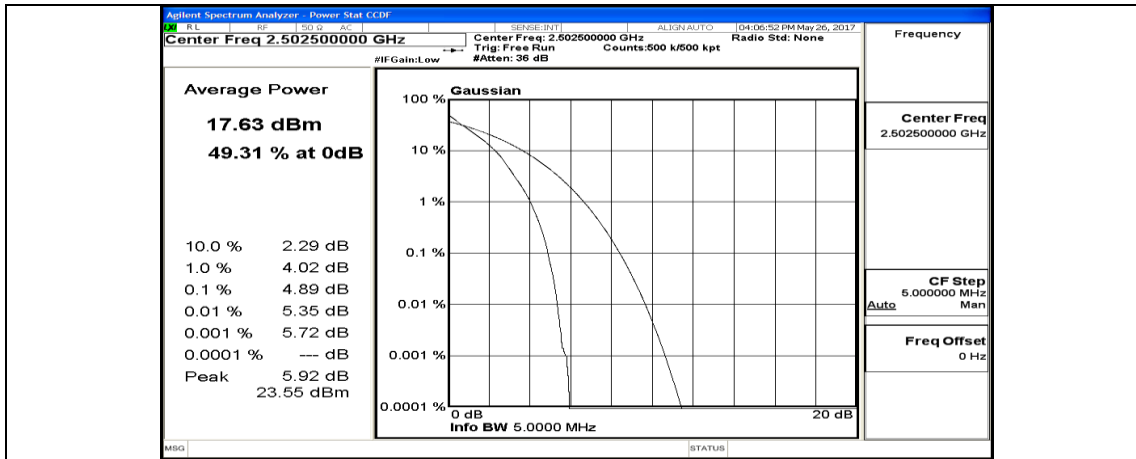
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



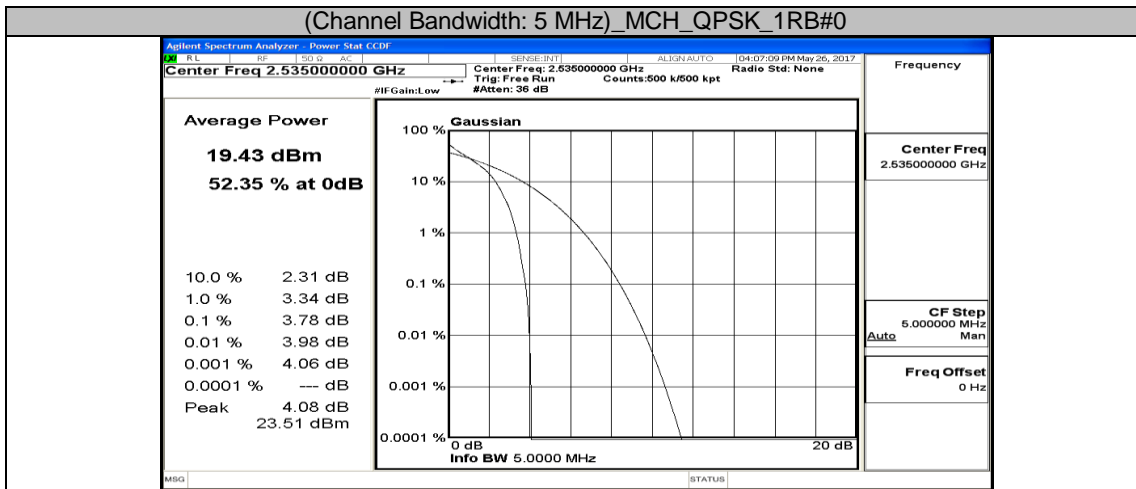
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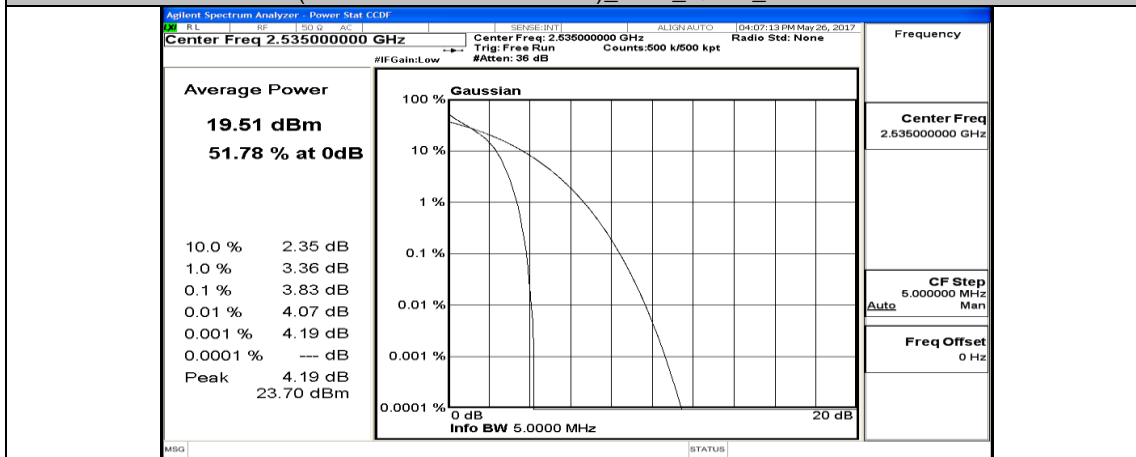
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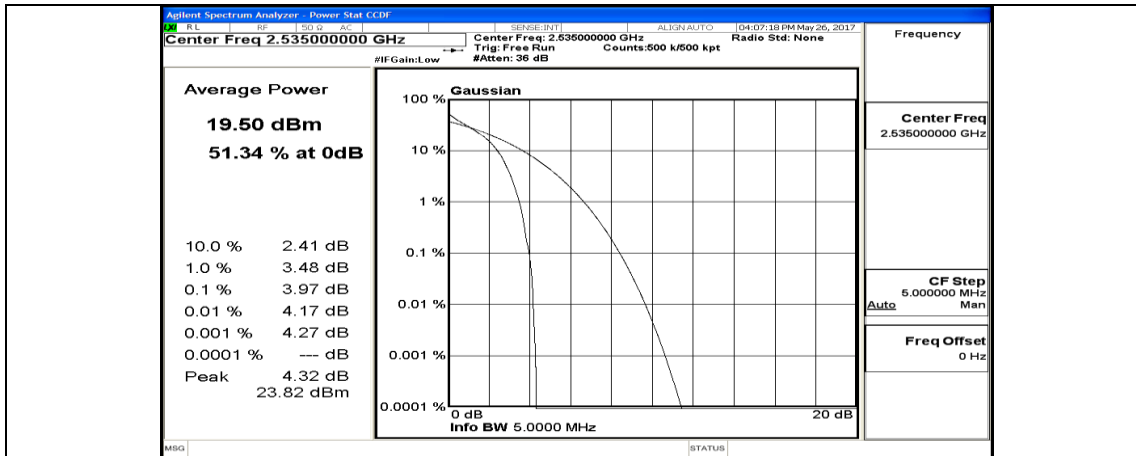
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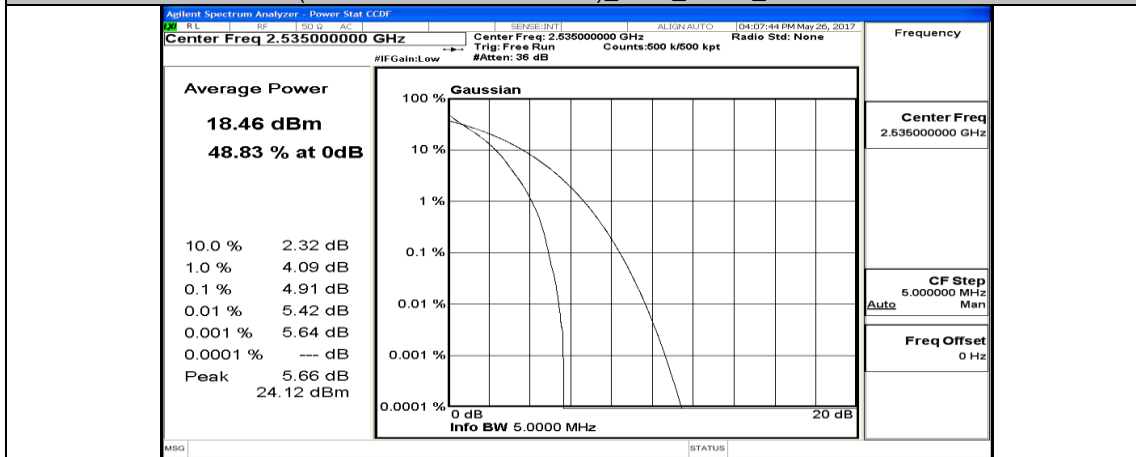
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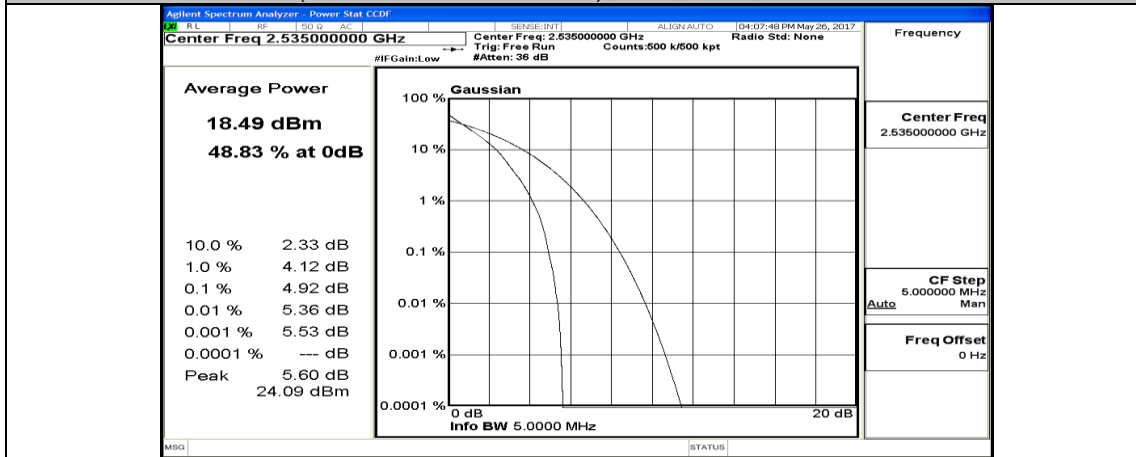
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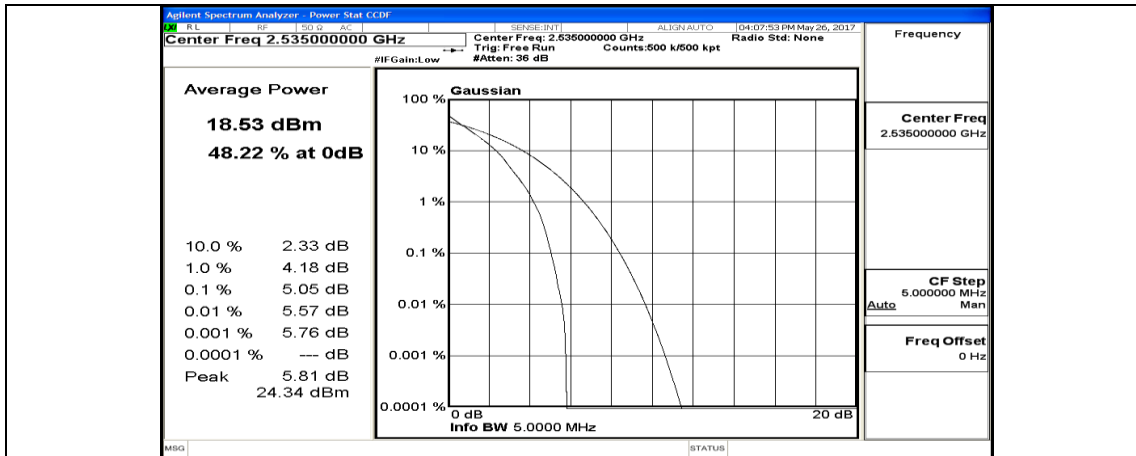
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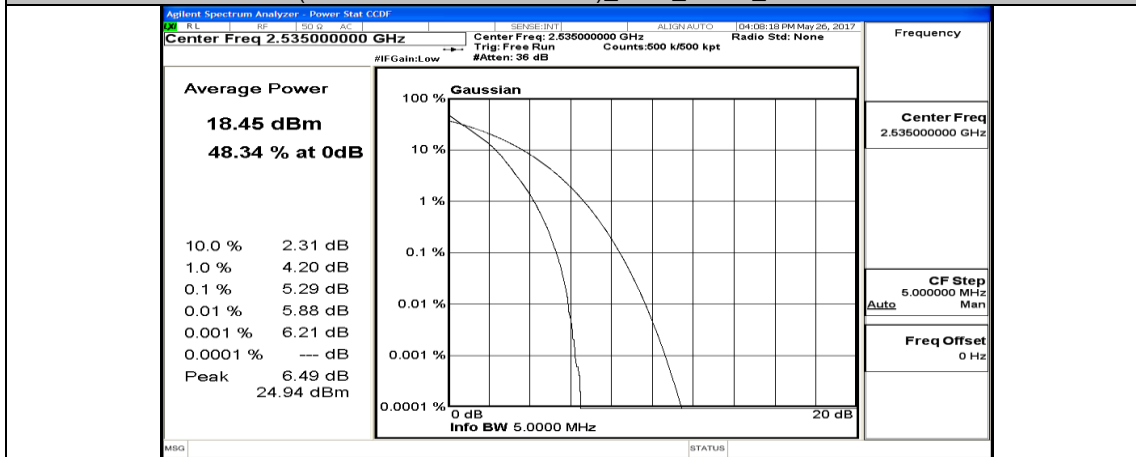
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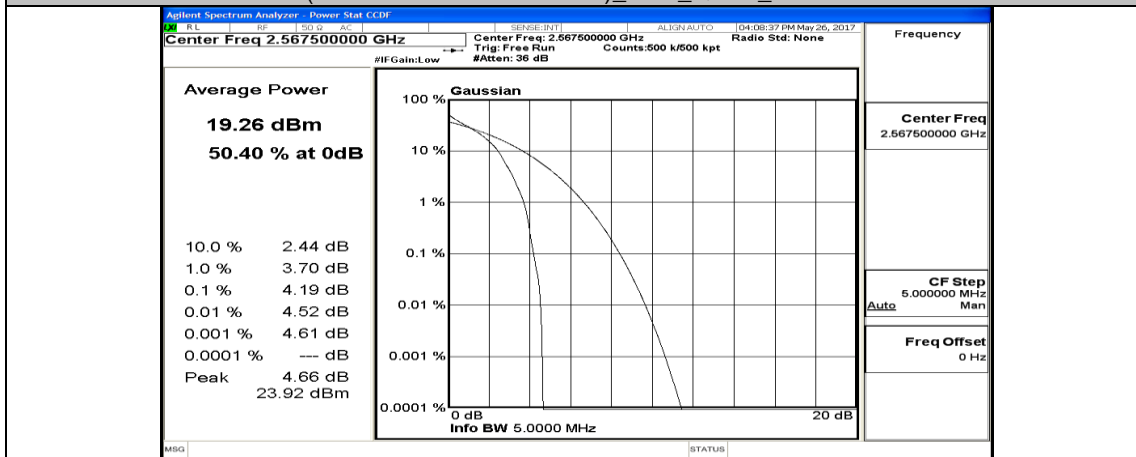
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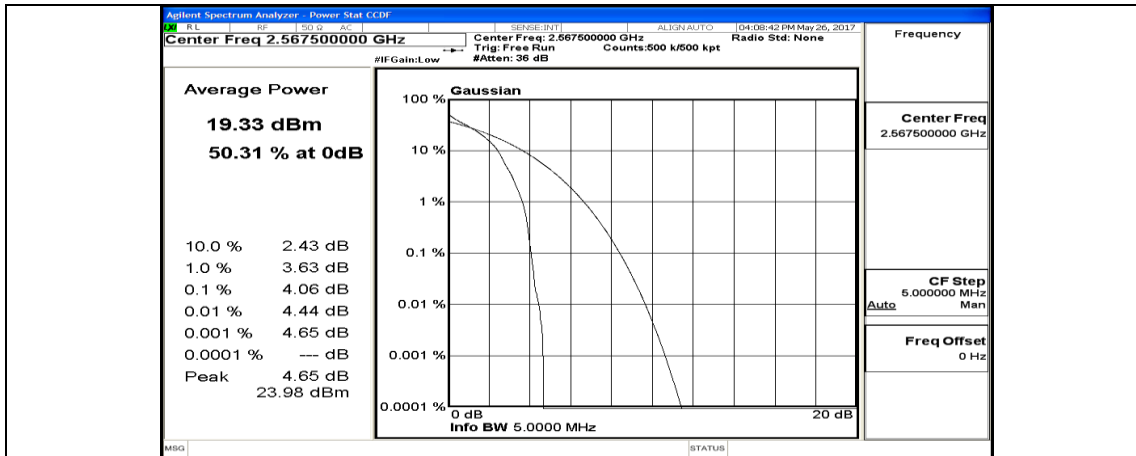
(Channel Bandwidth: 5 MHz) MCH_QPSK_25RB#0



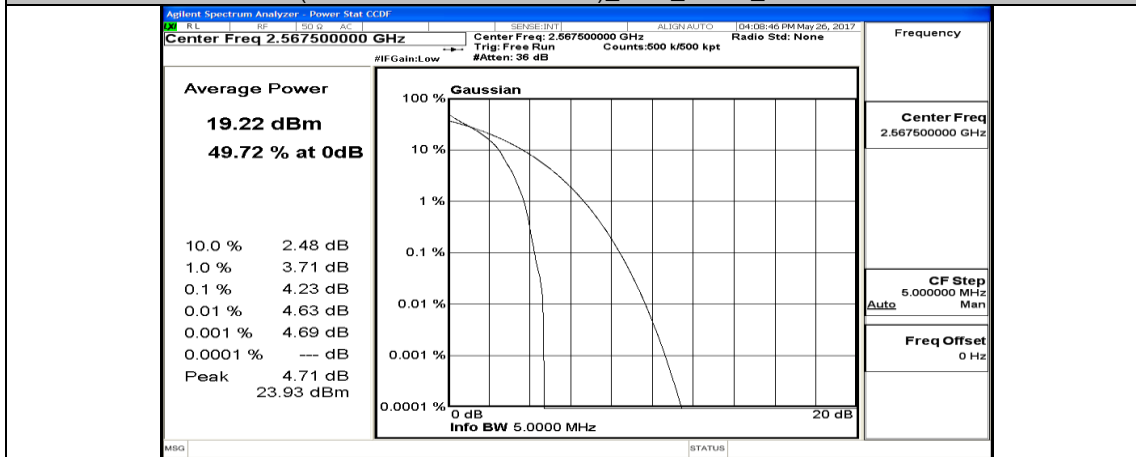
(Channel Bandwidth: 5 MHz) HCH_QPSK_1RB#0



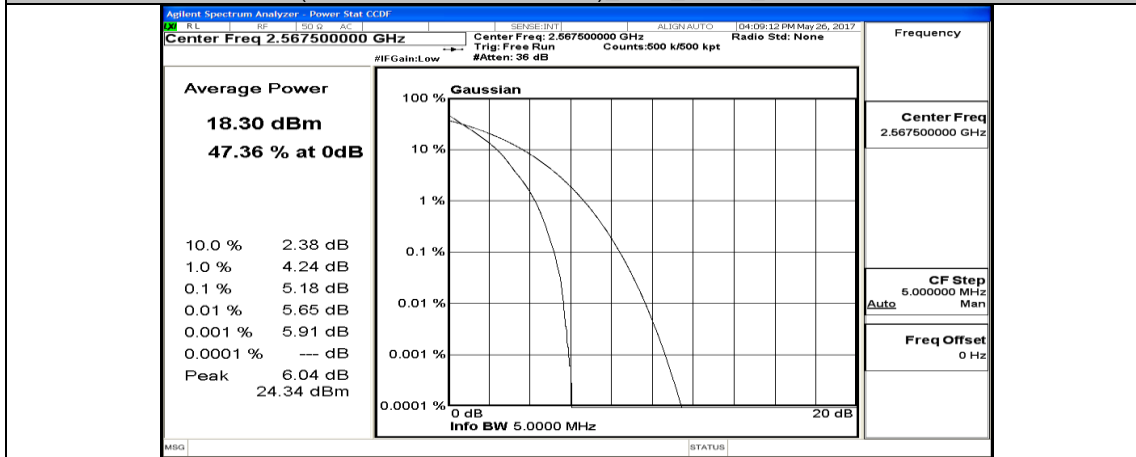
(Channel Bandwidth: 5 MHz) HCH_QPSK_1RB#12



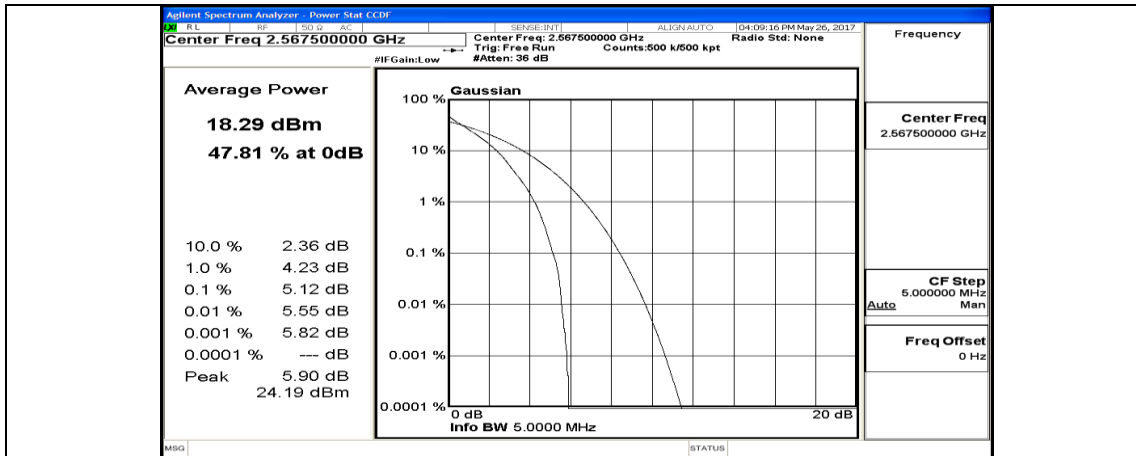
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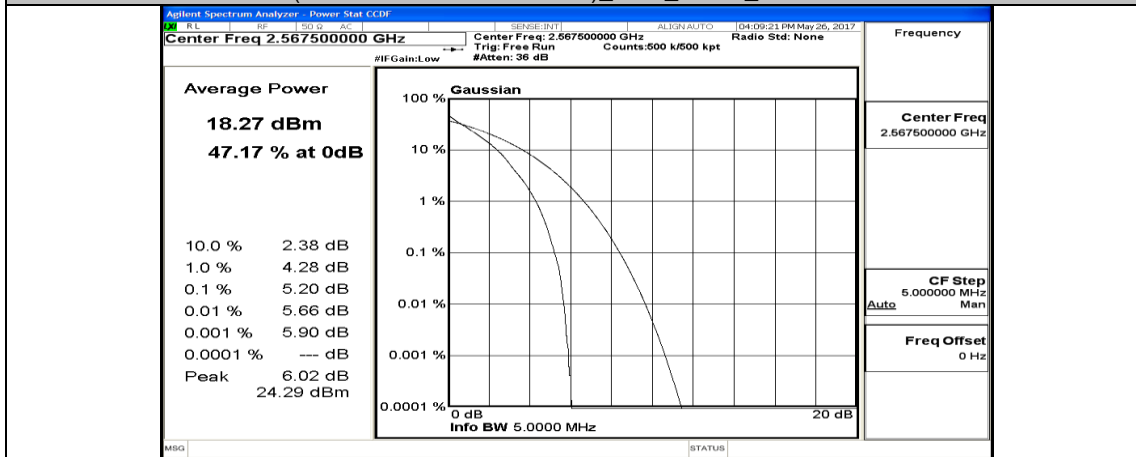
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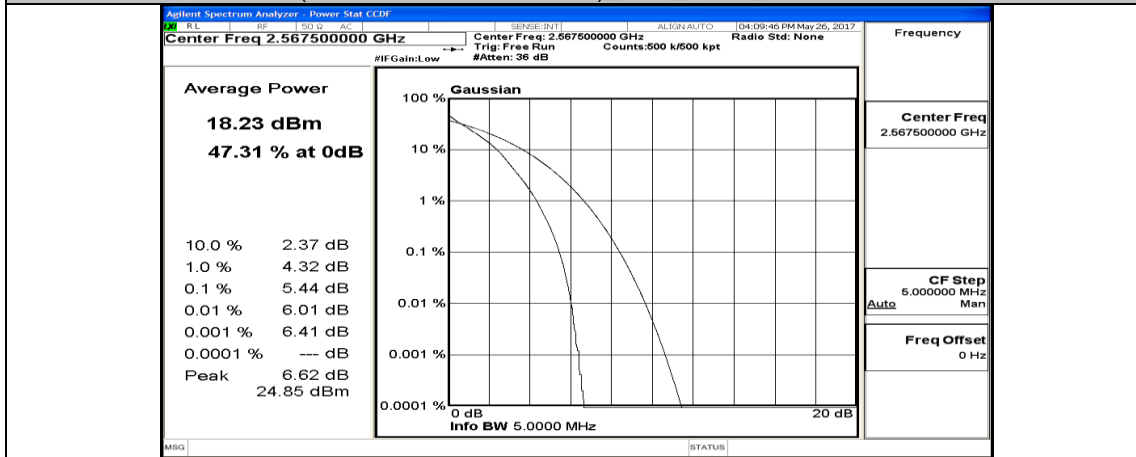
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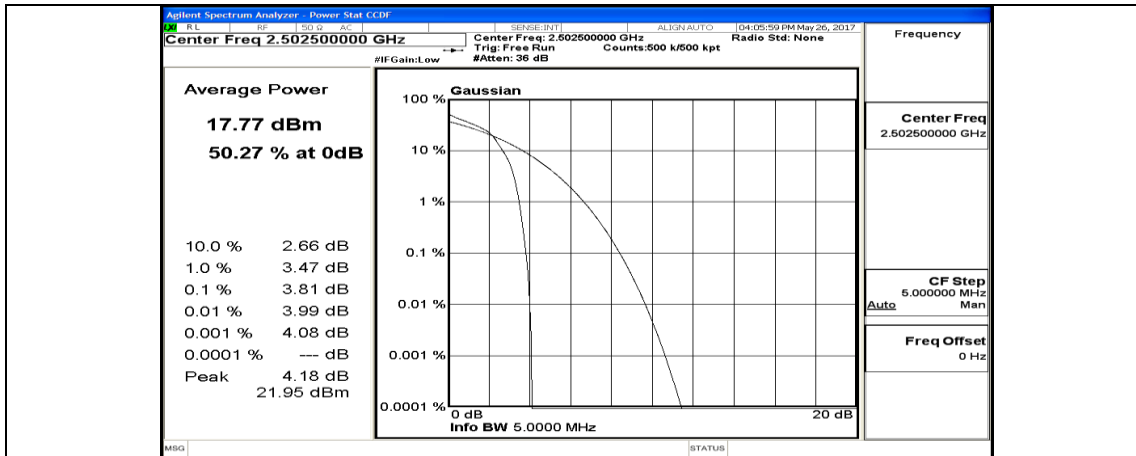
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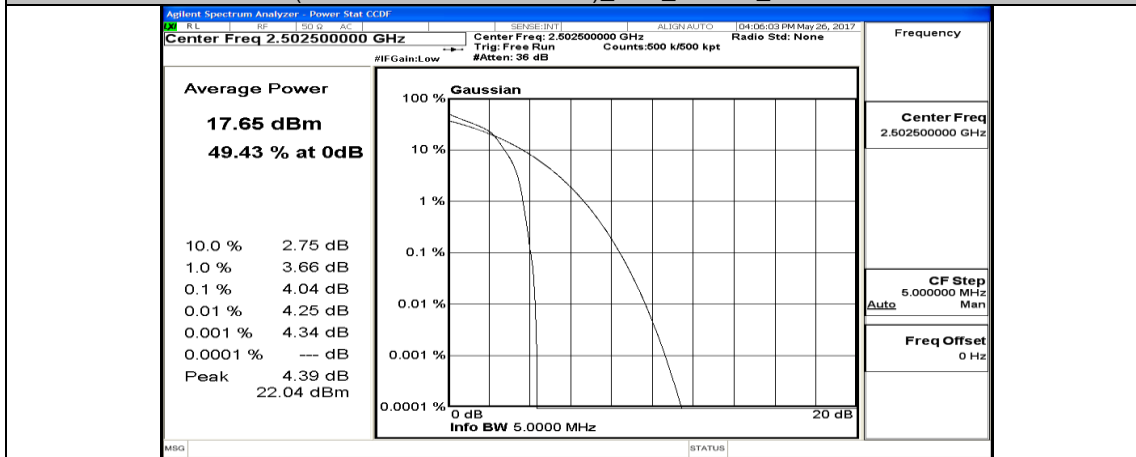
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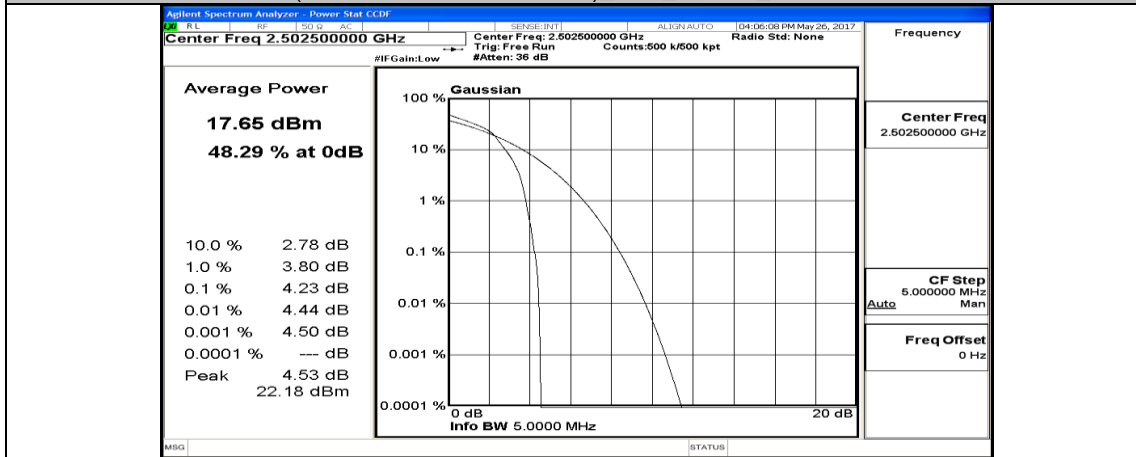
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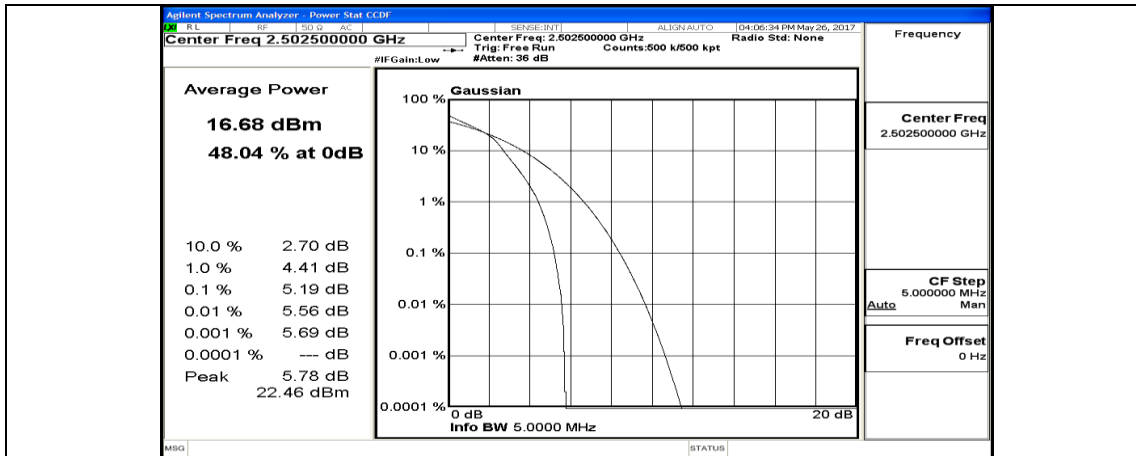
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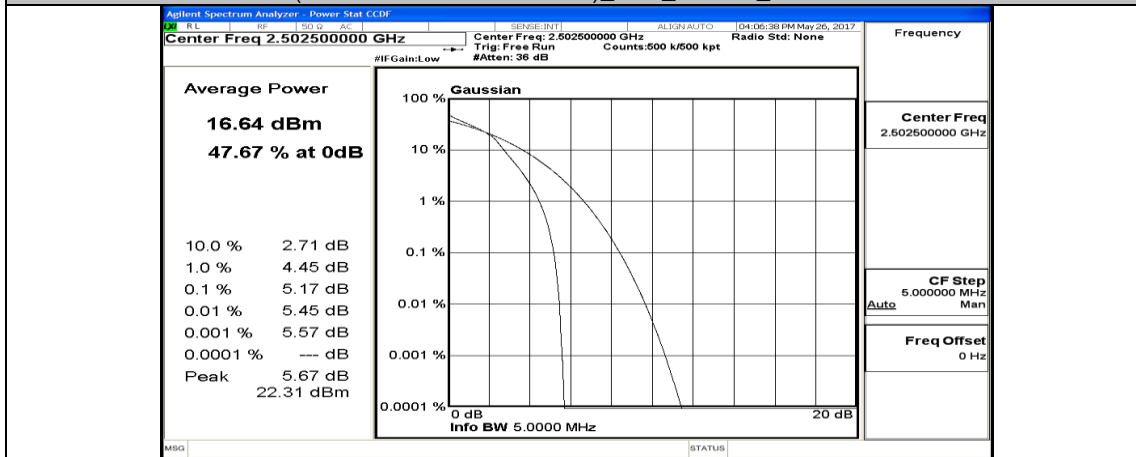
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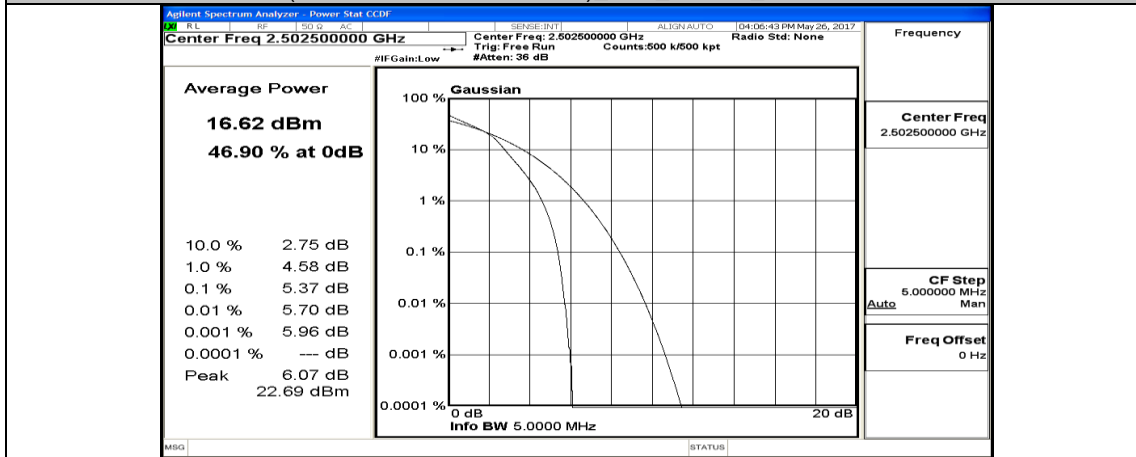
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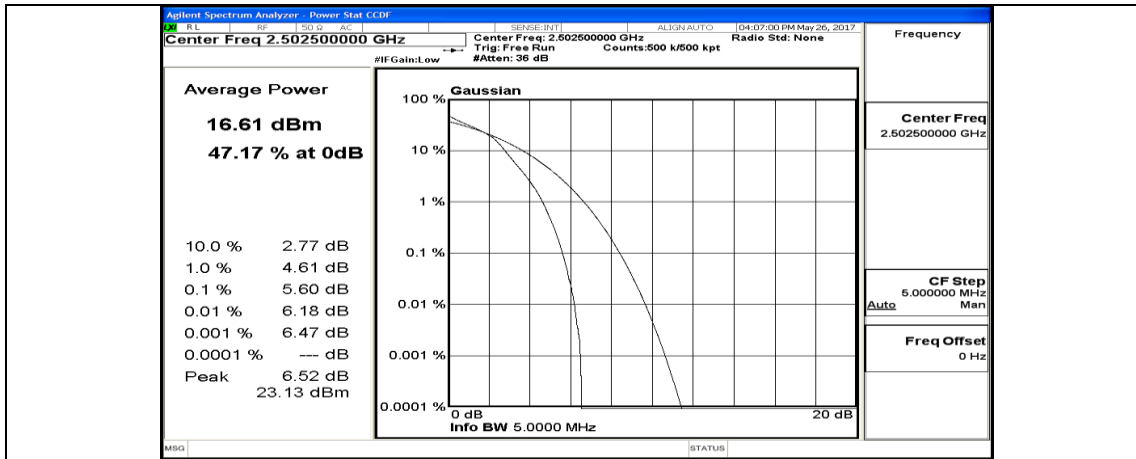
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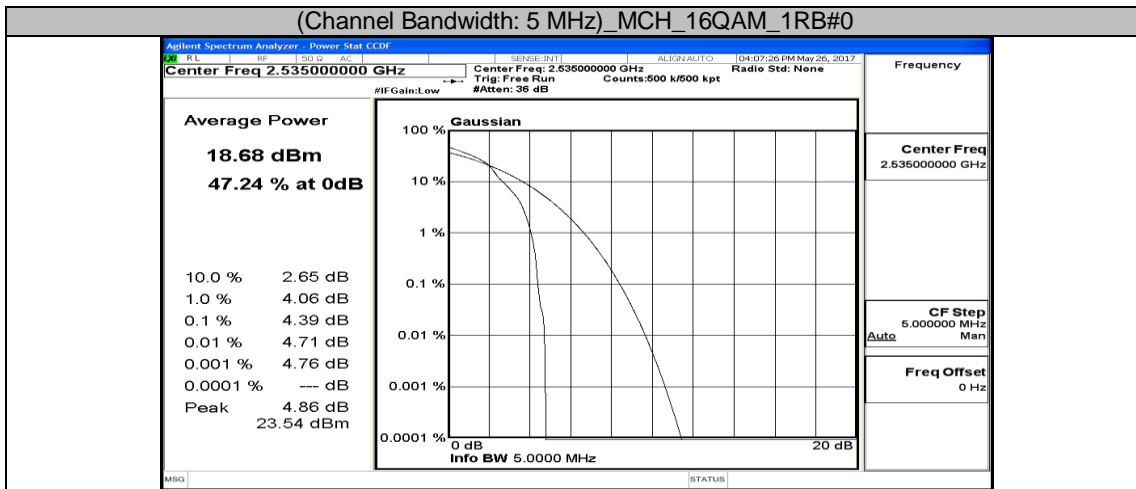
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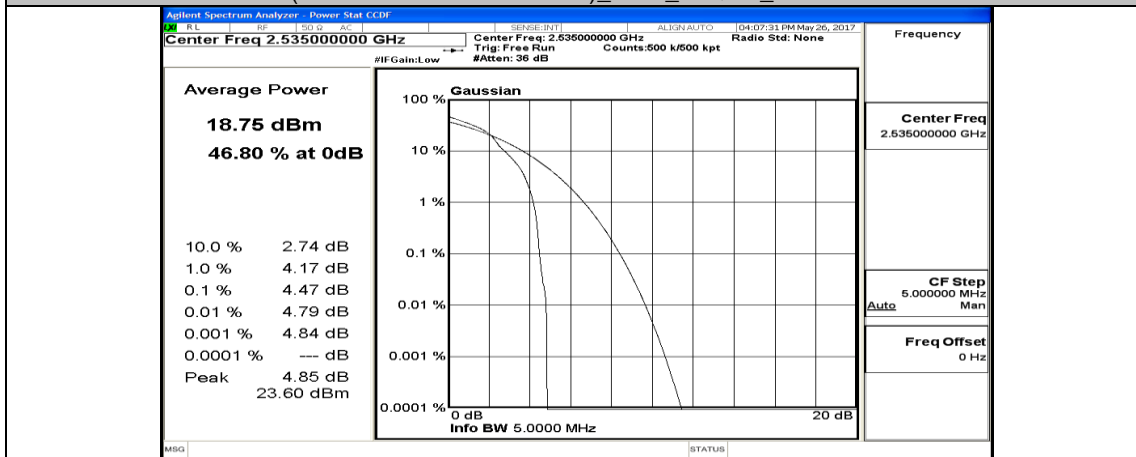
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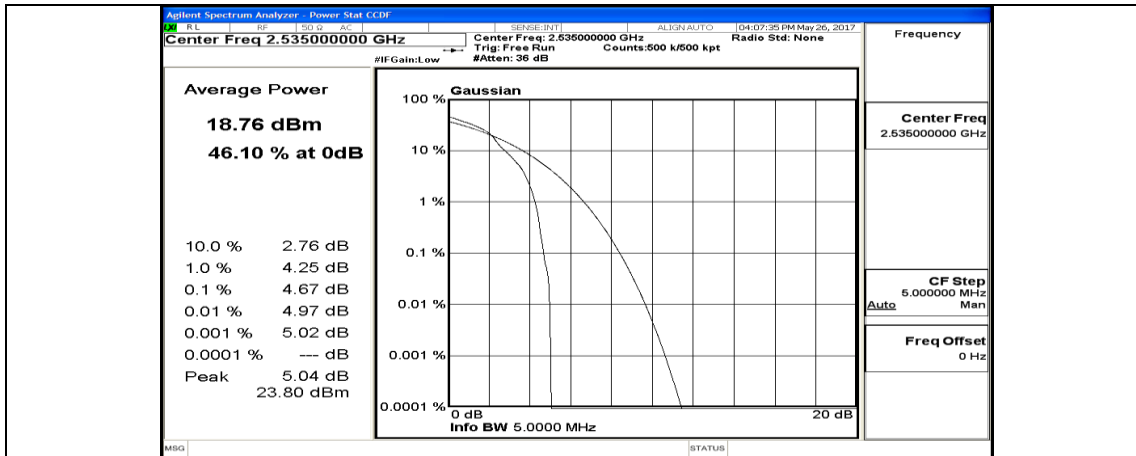
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



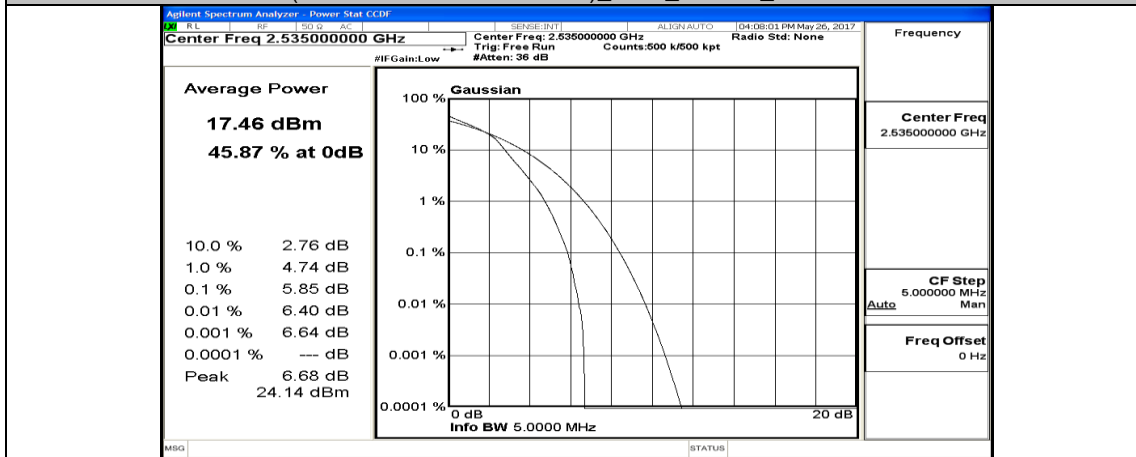
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



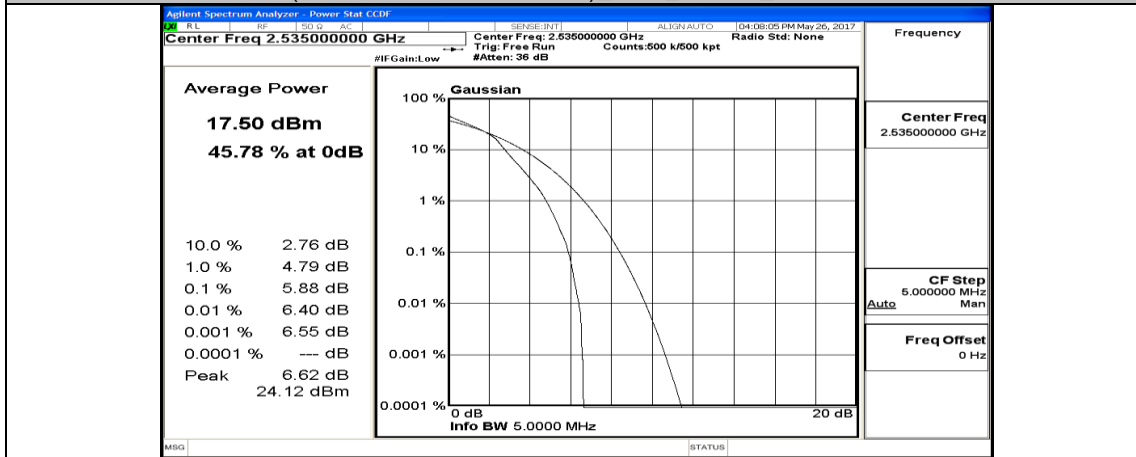
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



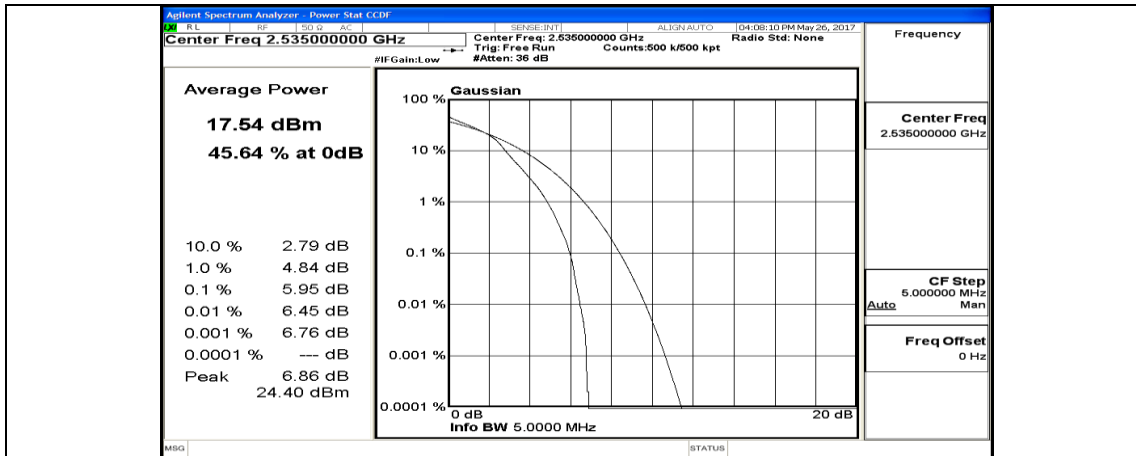
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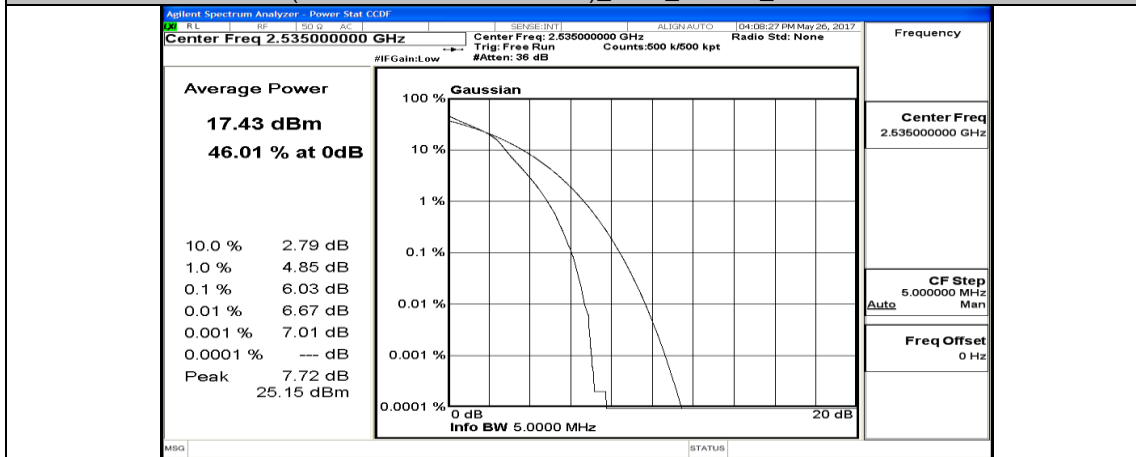
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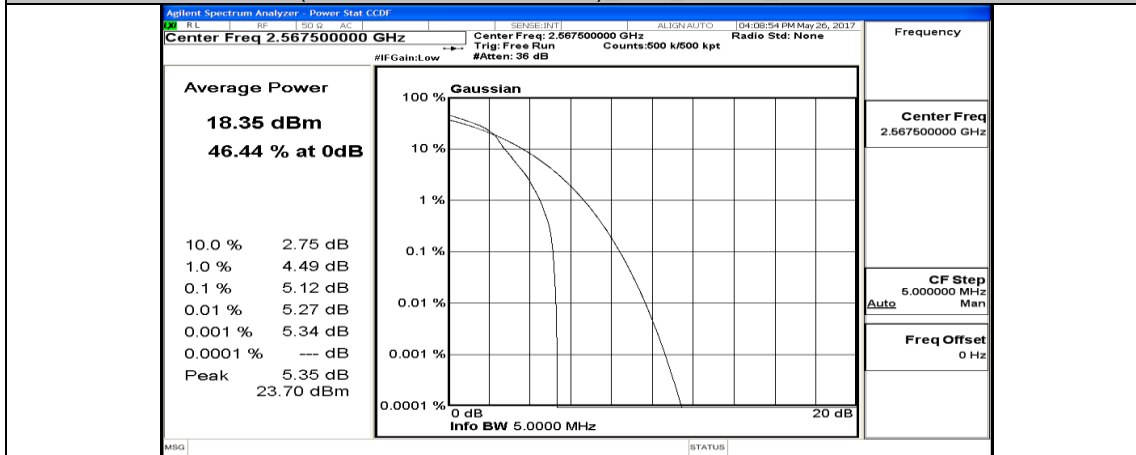
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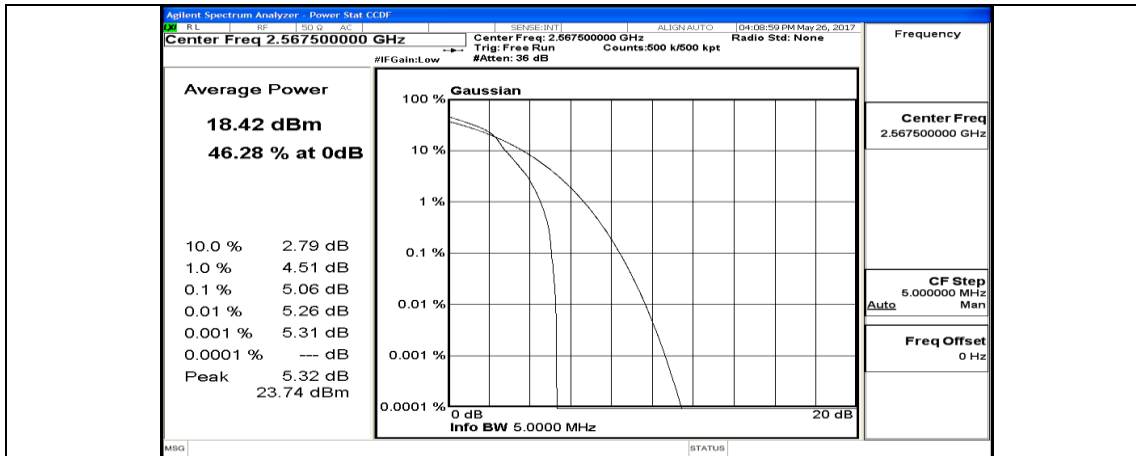
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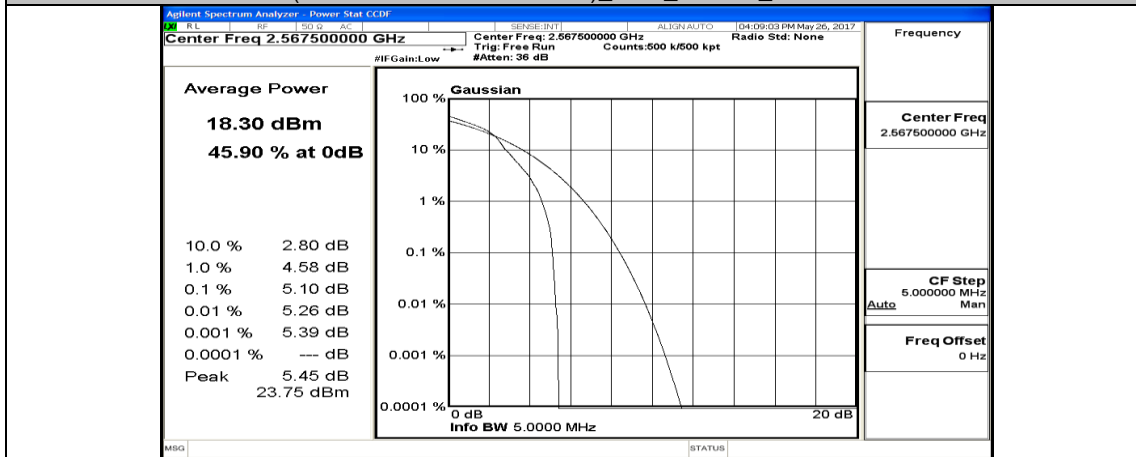
(Channel Bandwidth: 5 MHz) HCH_16QAM_1RB#0



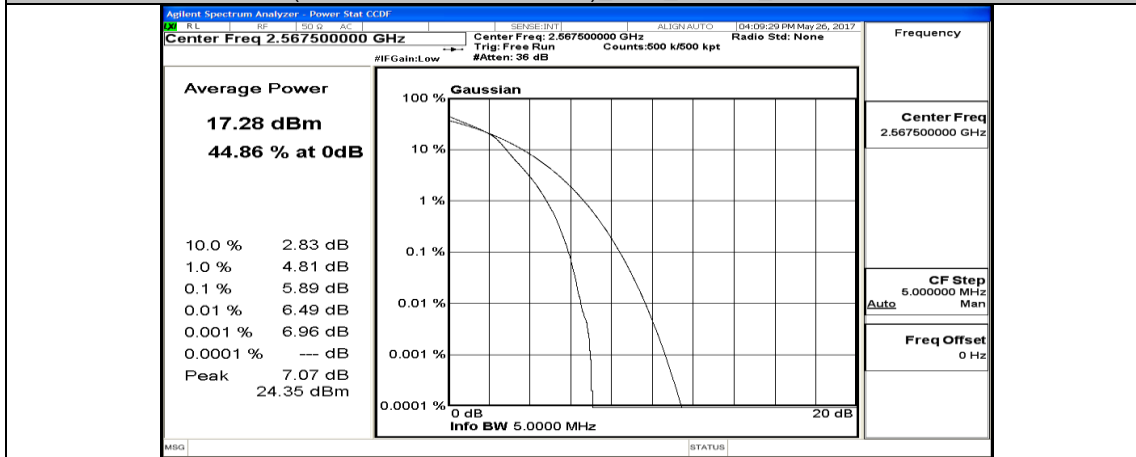
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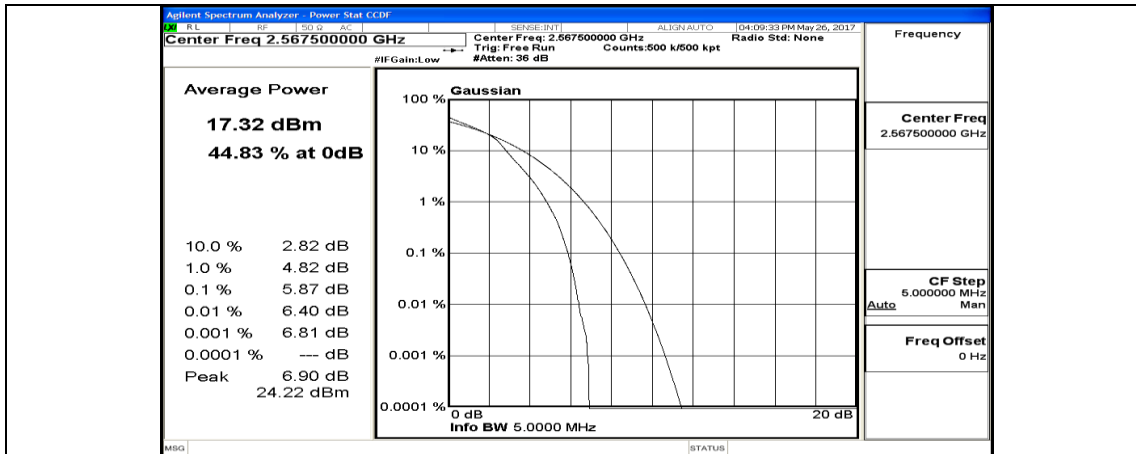
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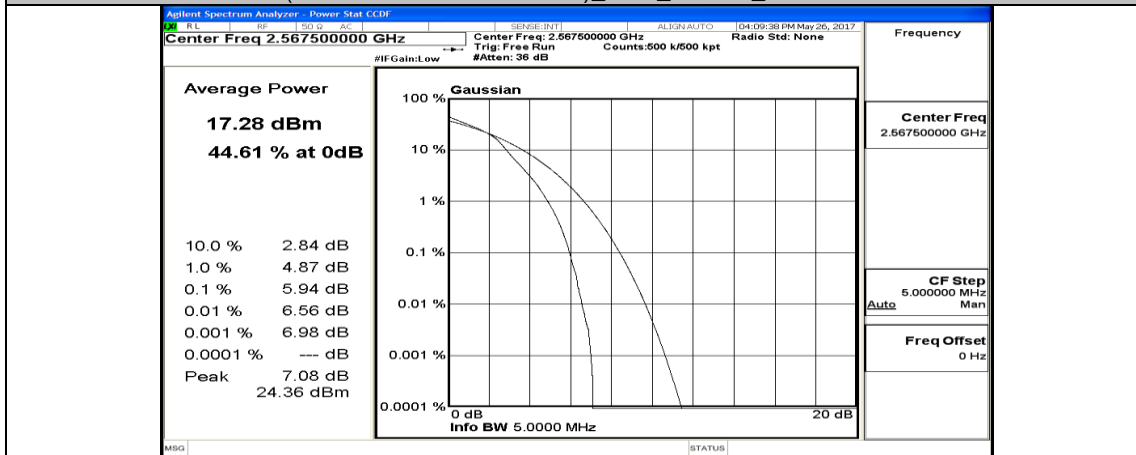
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



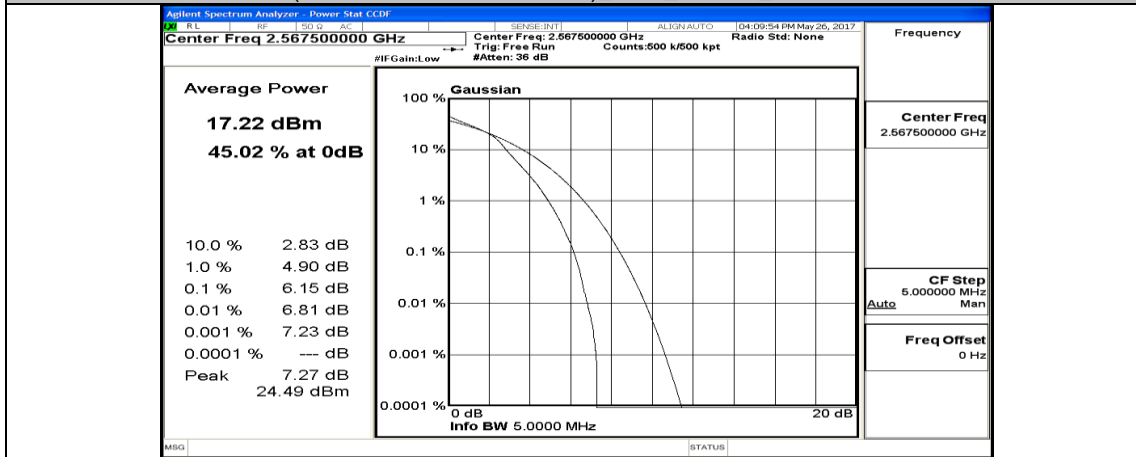
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

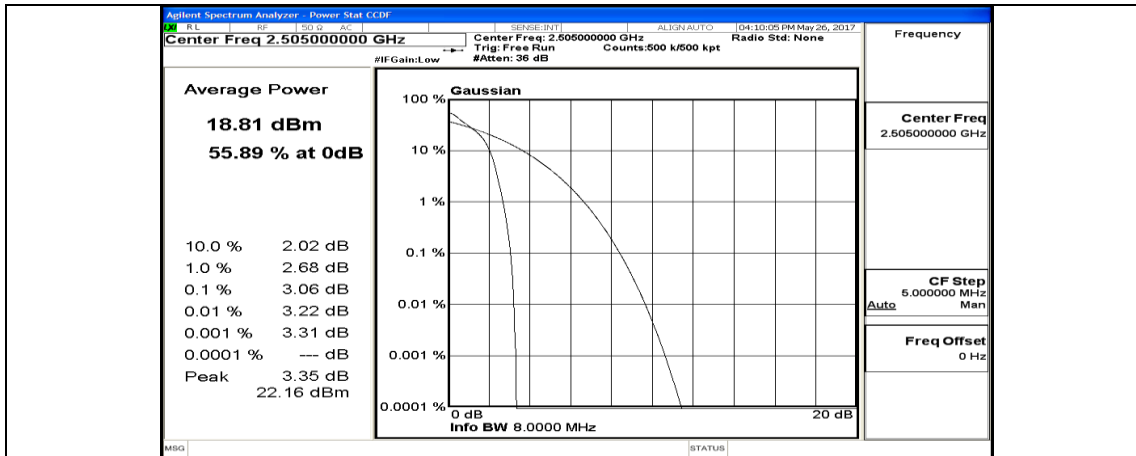


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

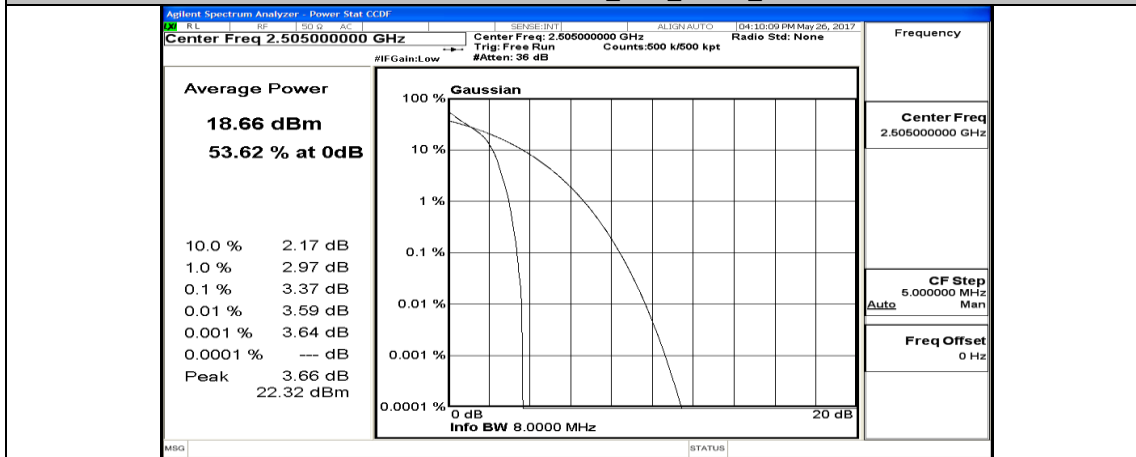


Channel Bandwidth: 10 MHz

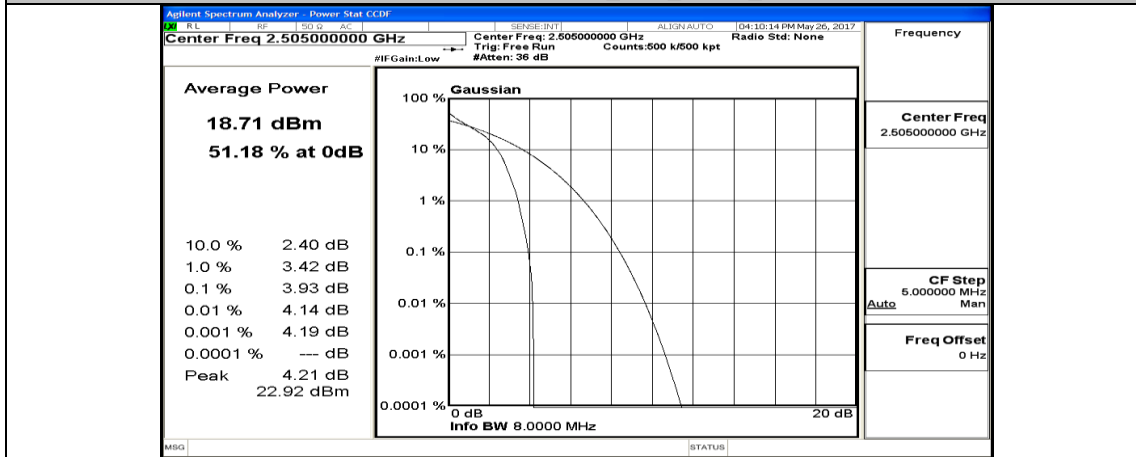
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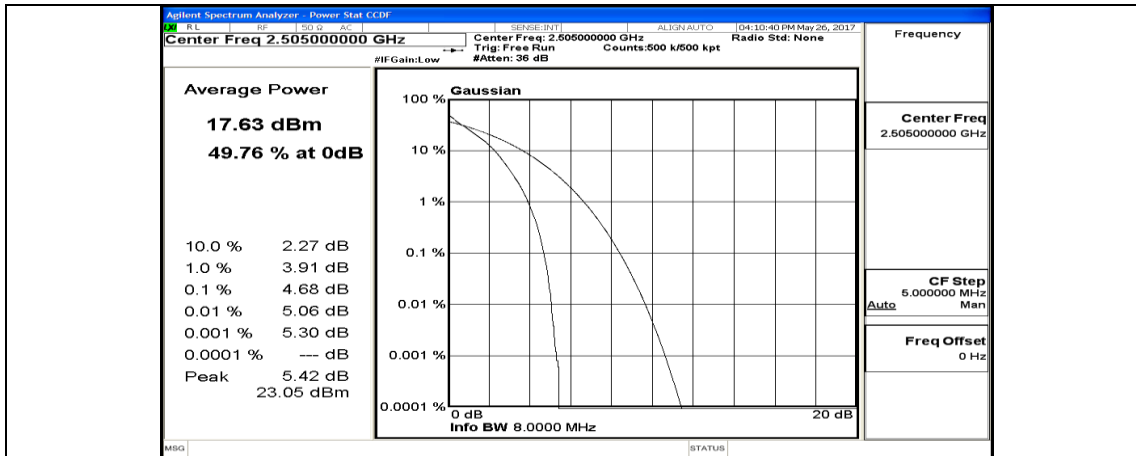
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



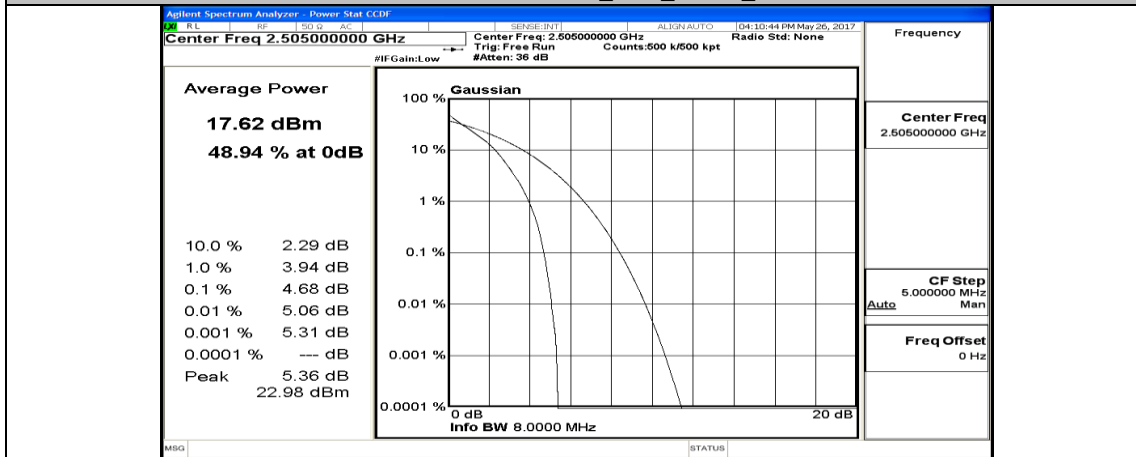
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



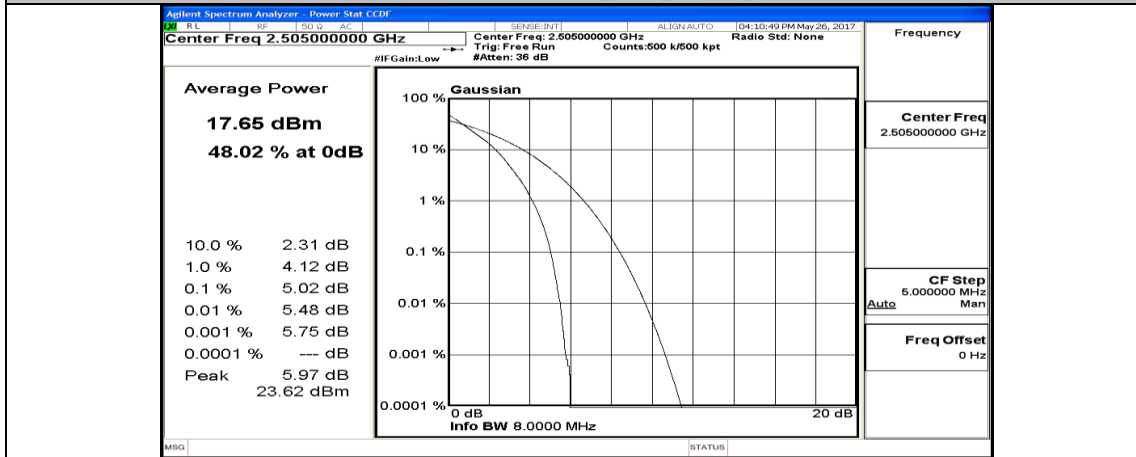
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0



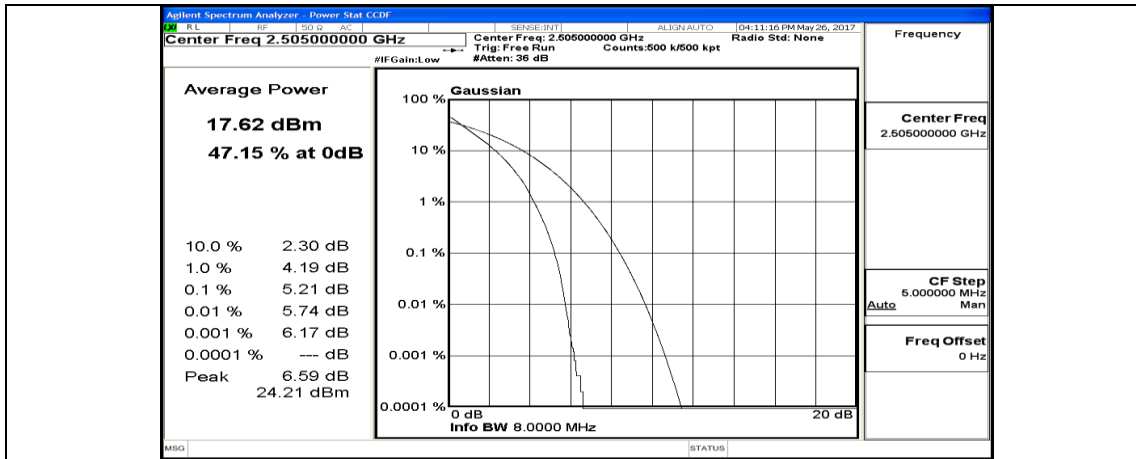
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



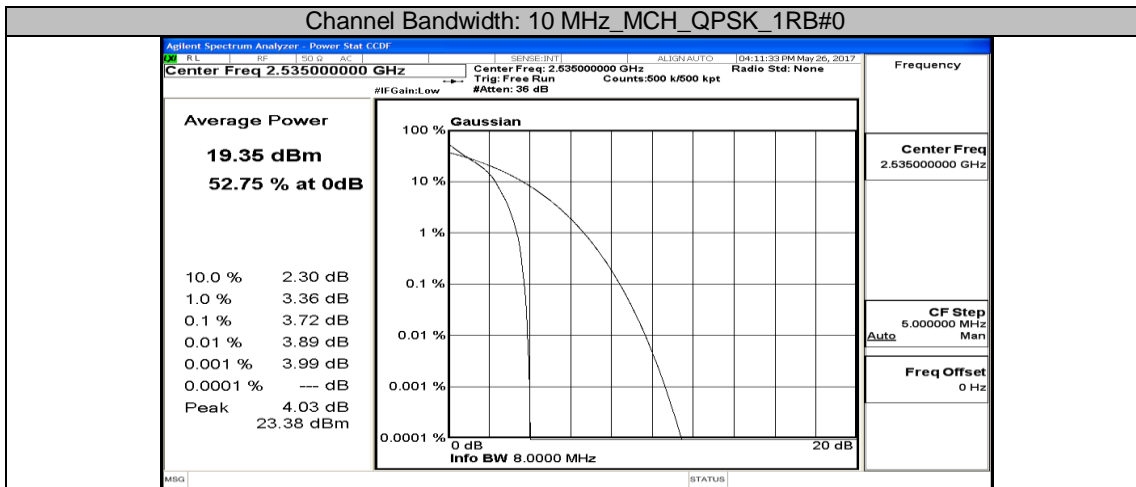
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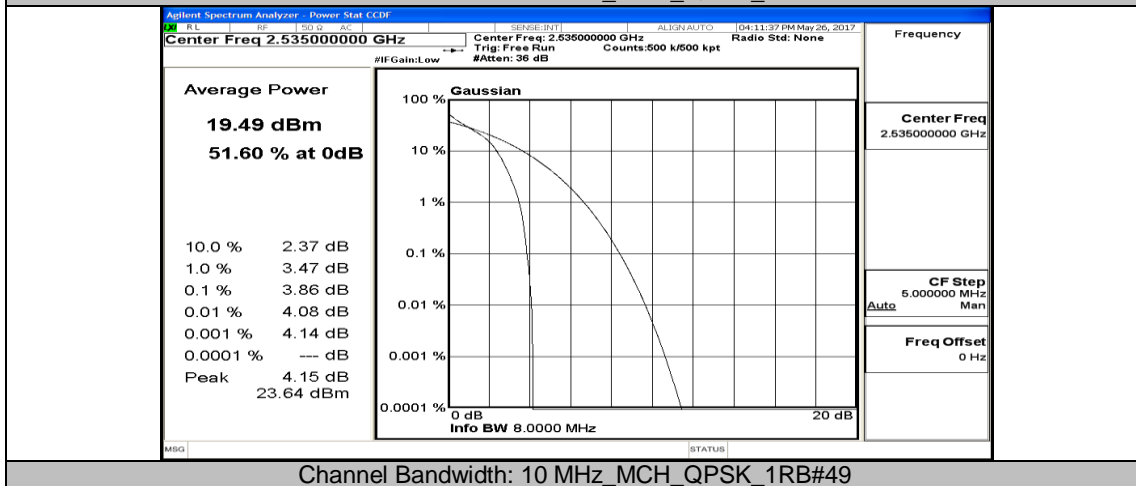
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



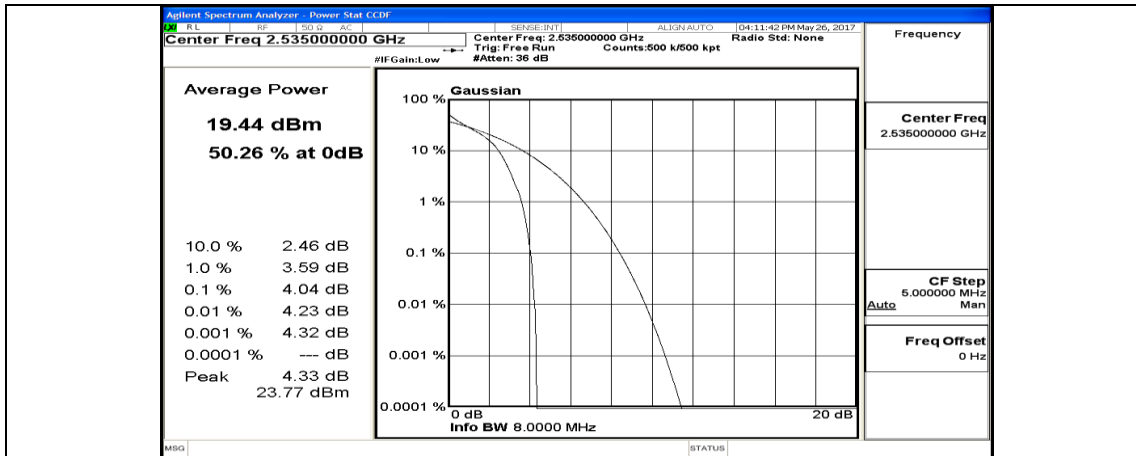
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



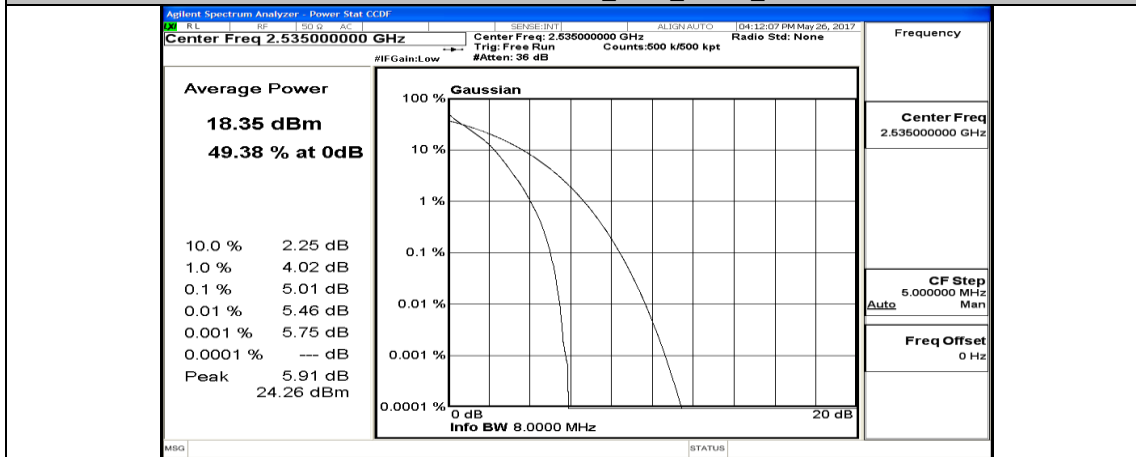
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24



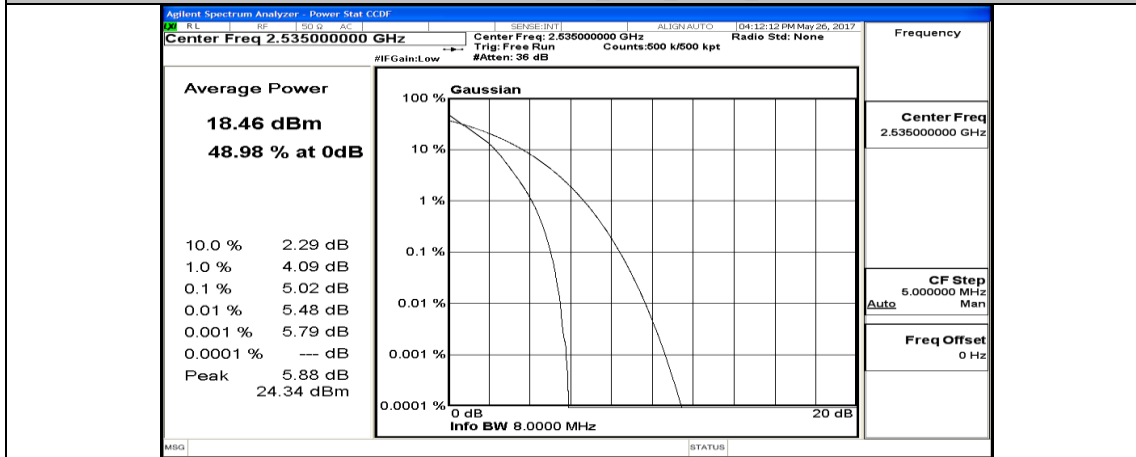
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



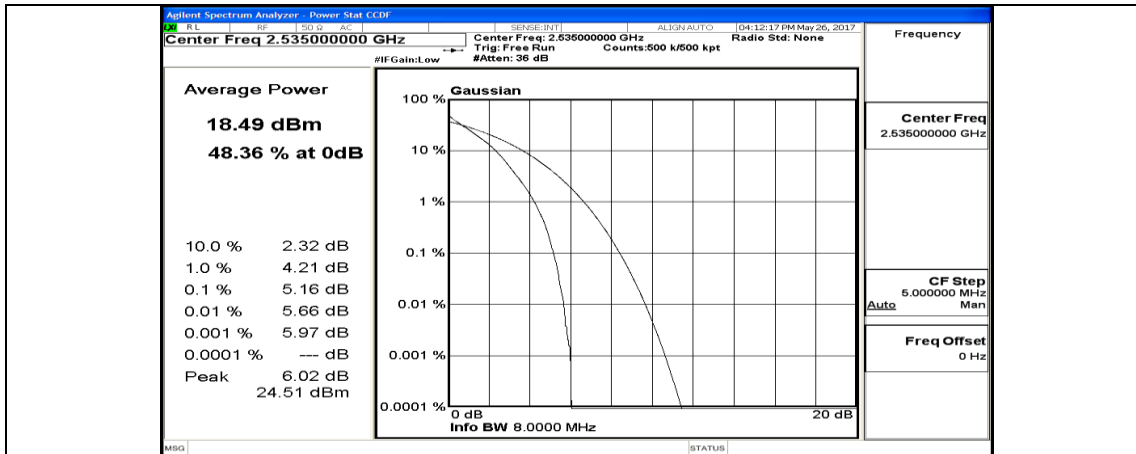
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0



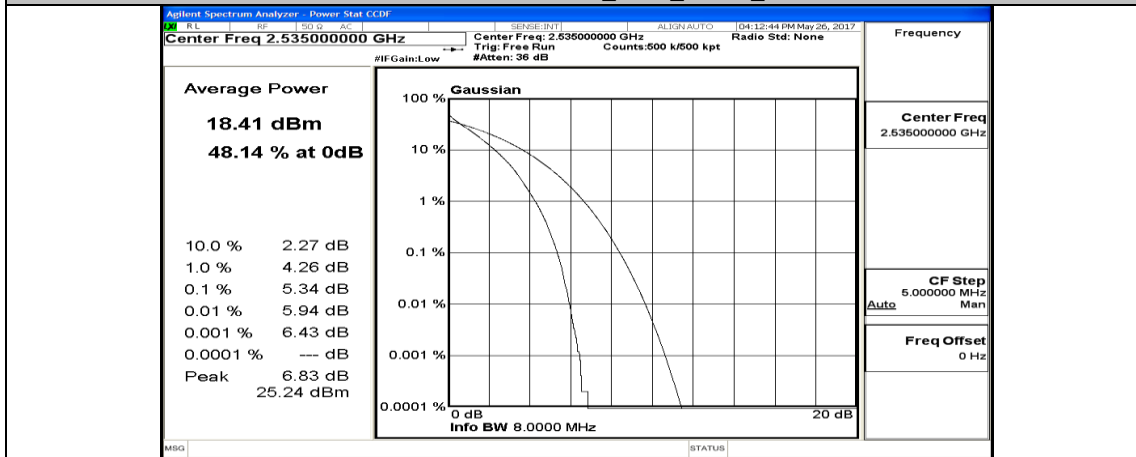
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12



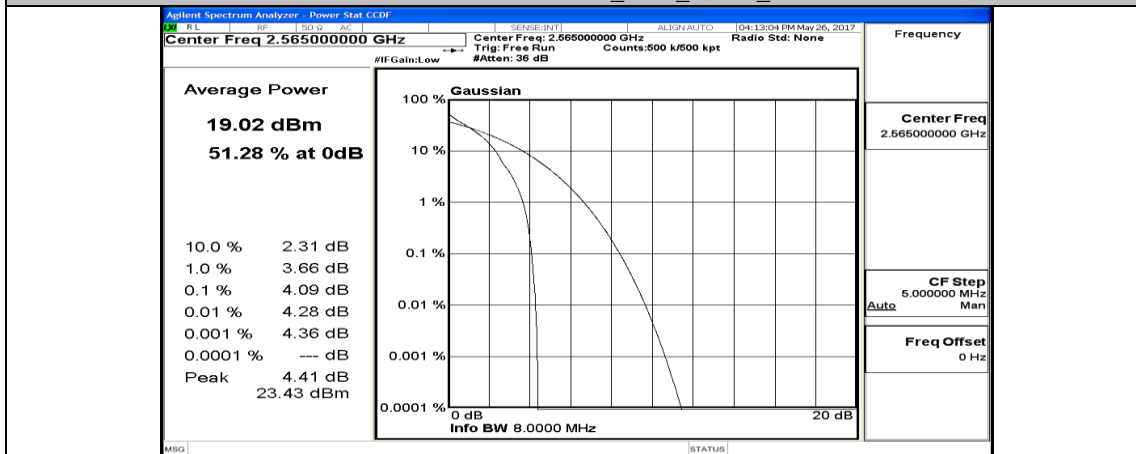
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



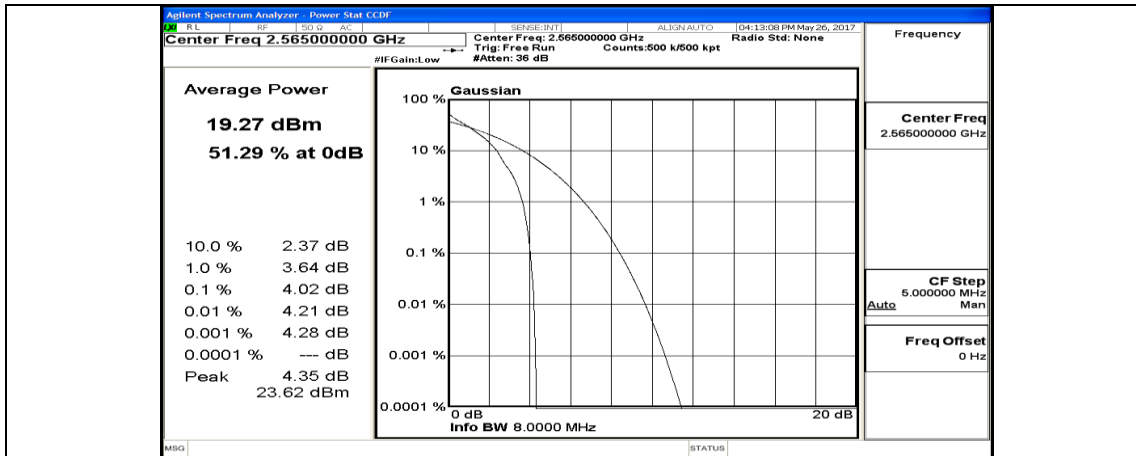
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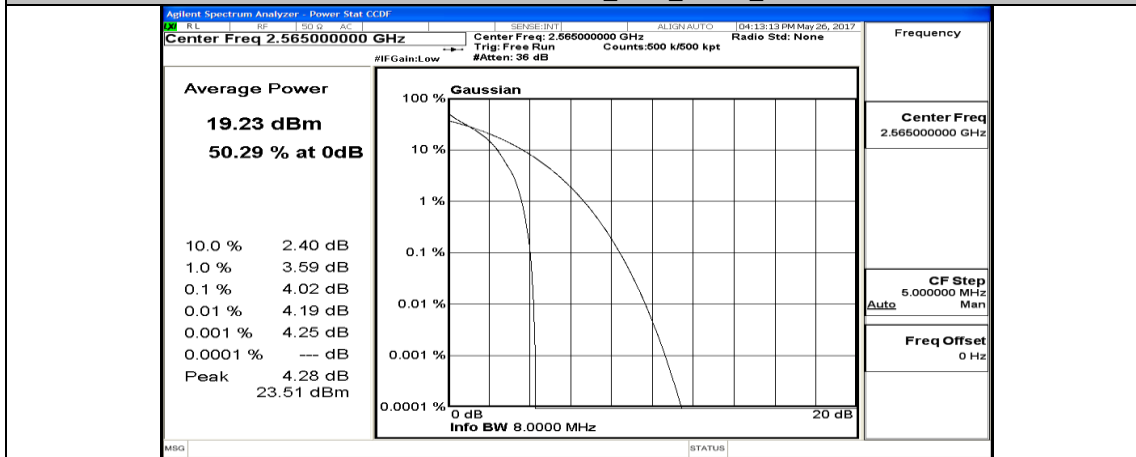
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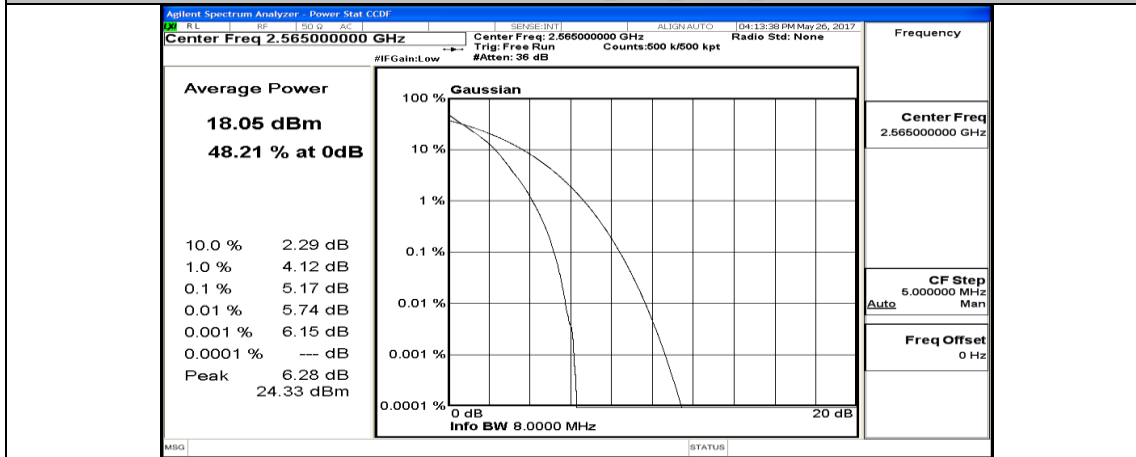
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



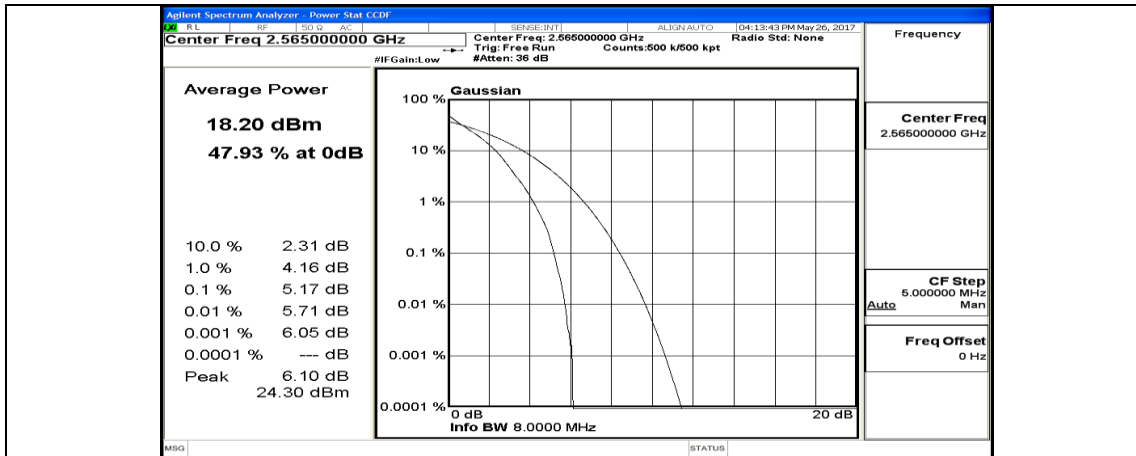
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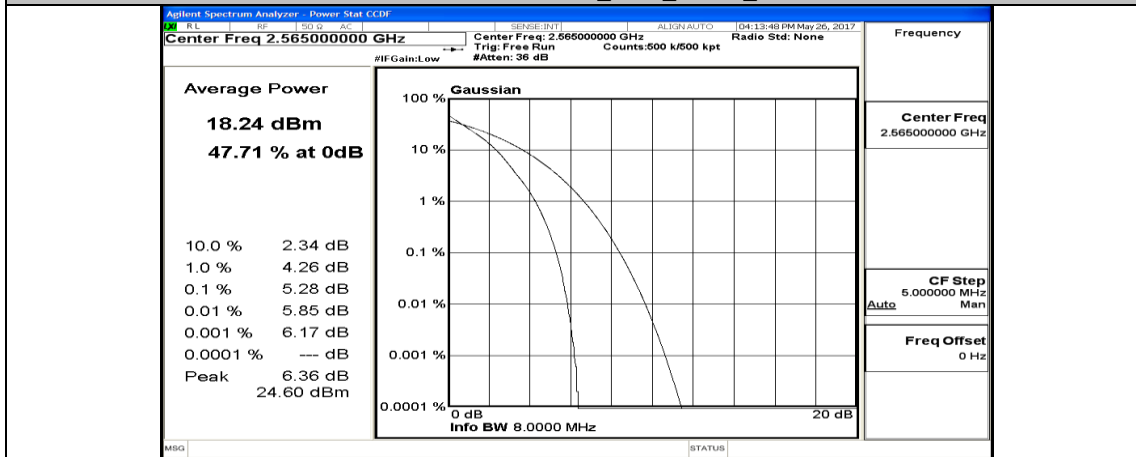
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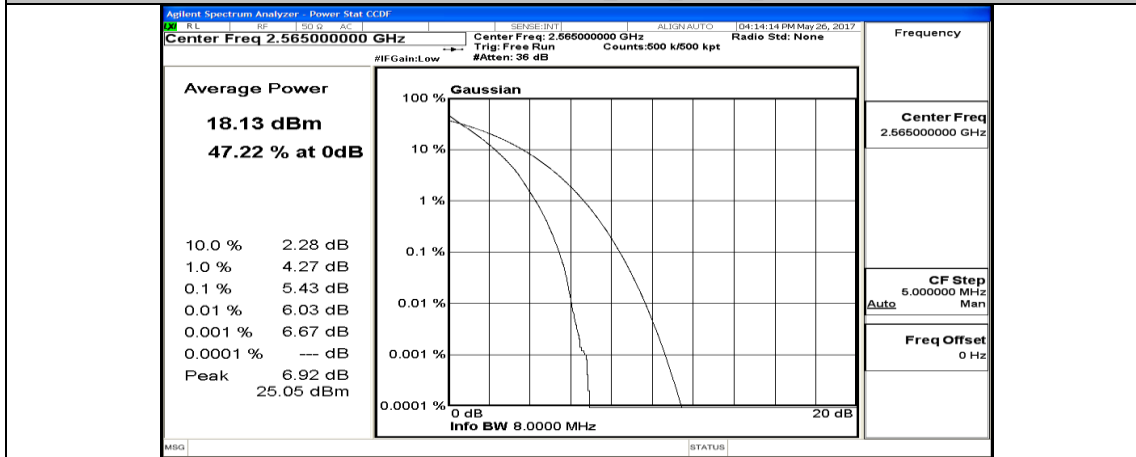
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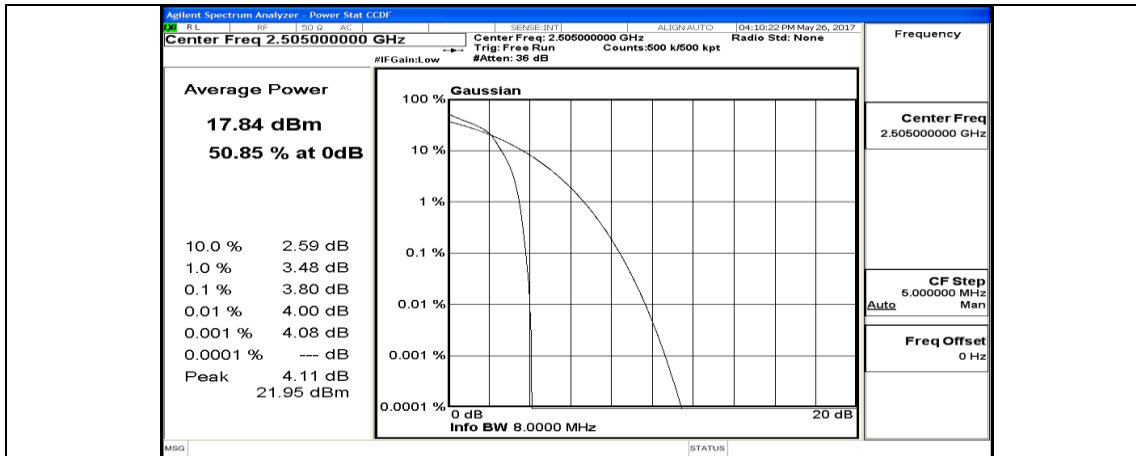
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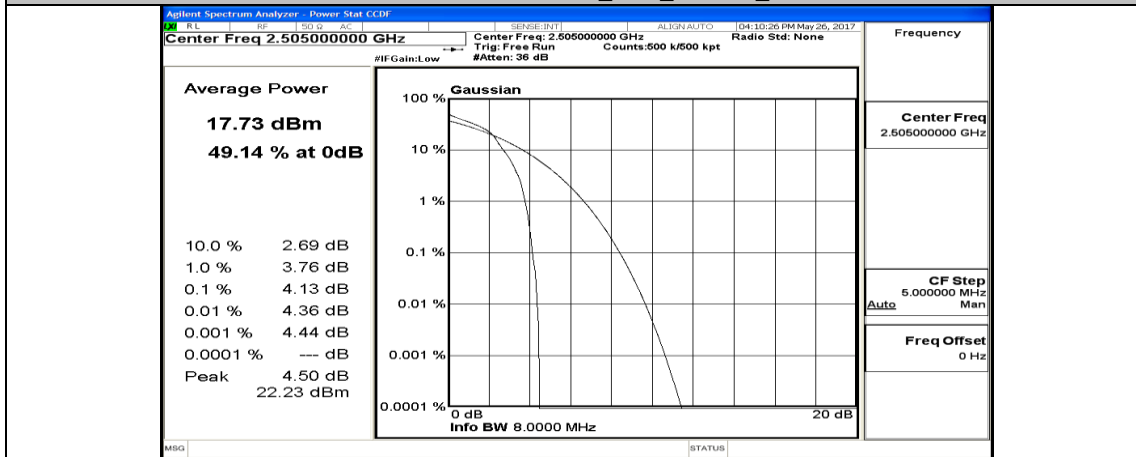
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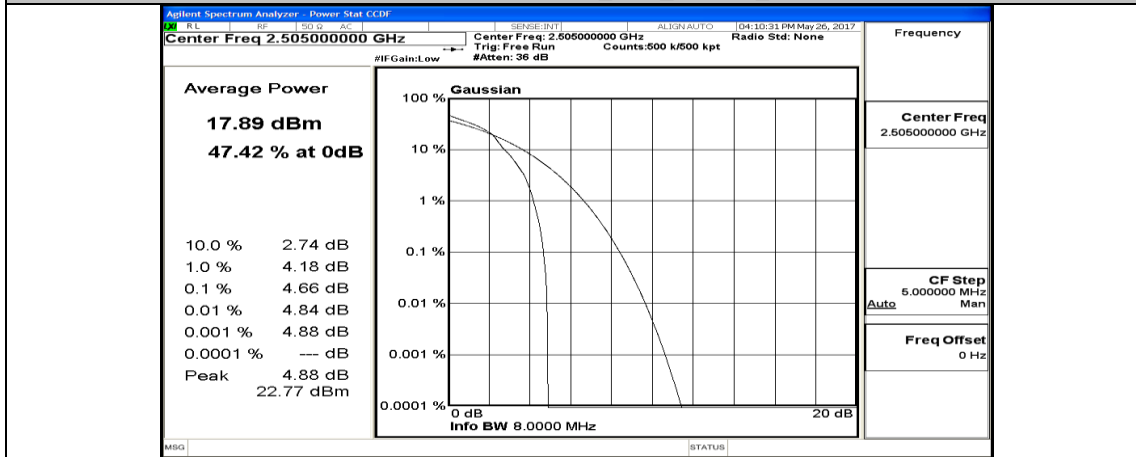
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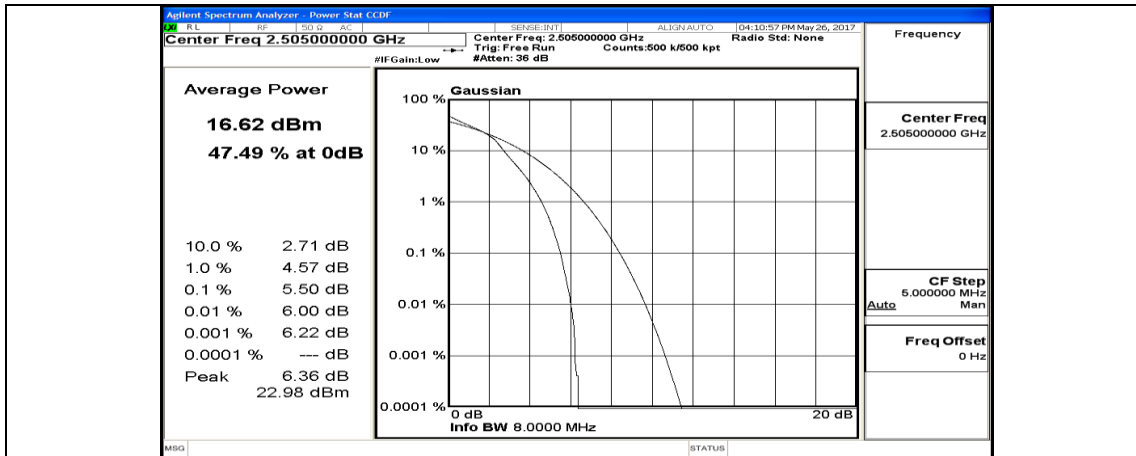
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



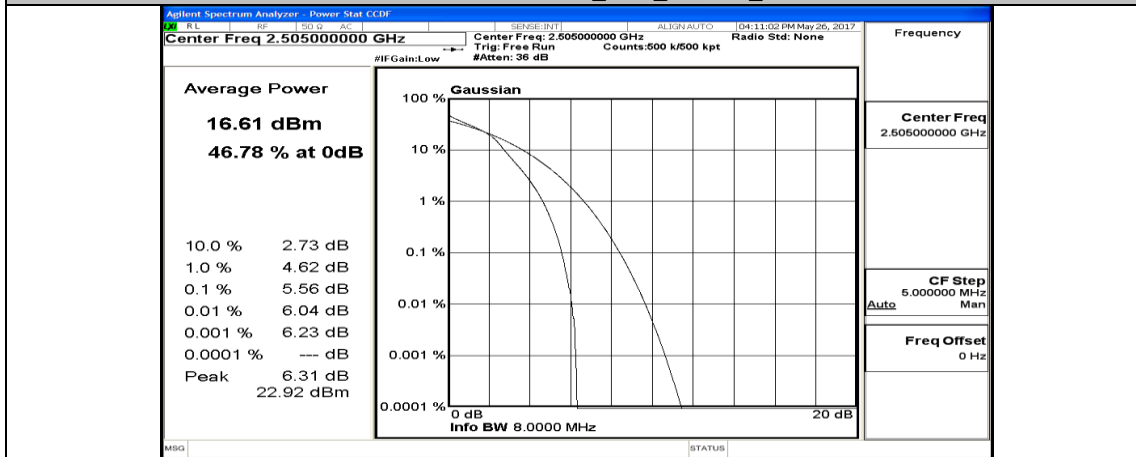
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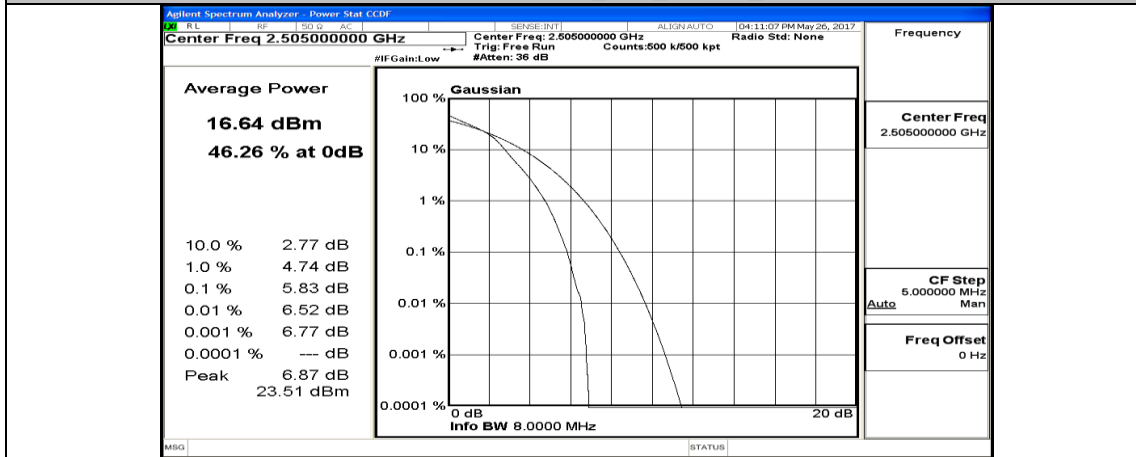
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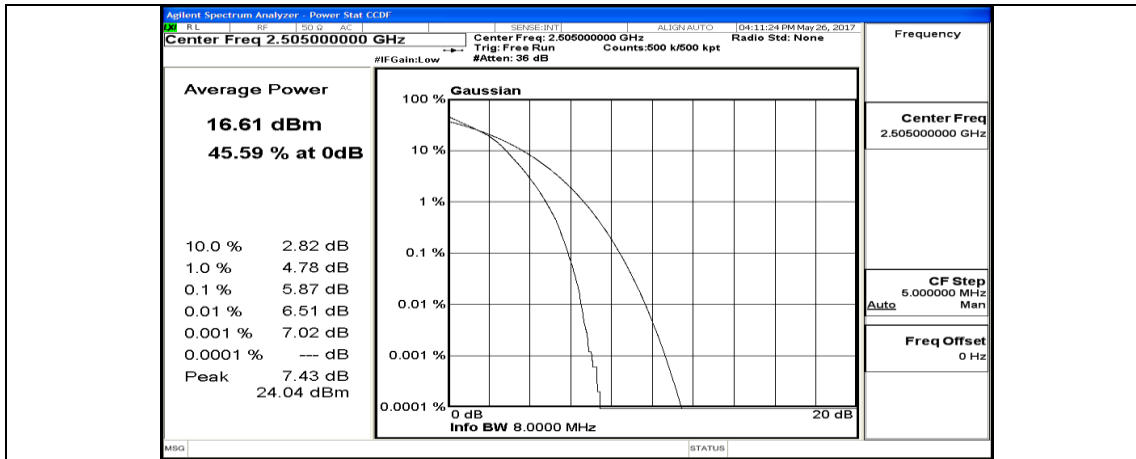
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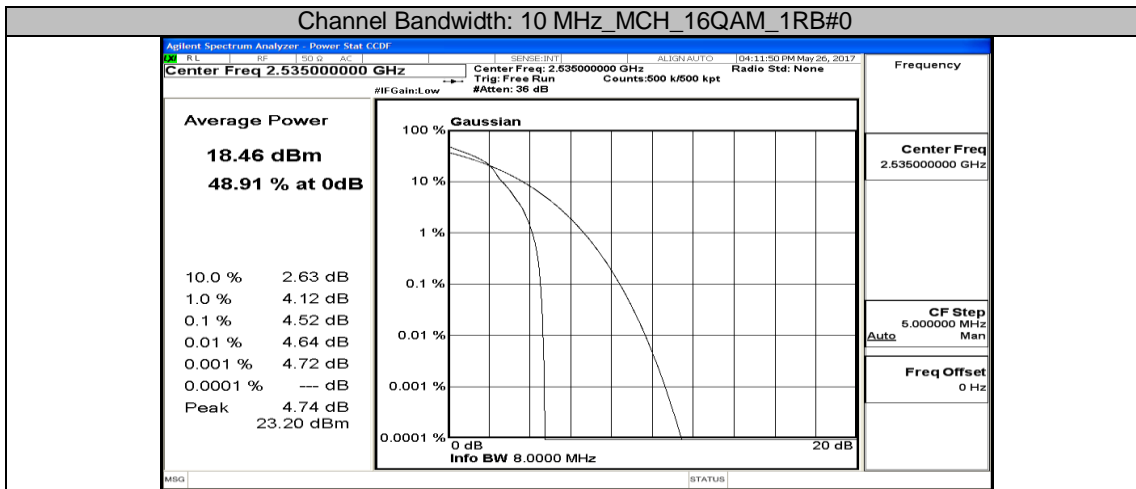
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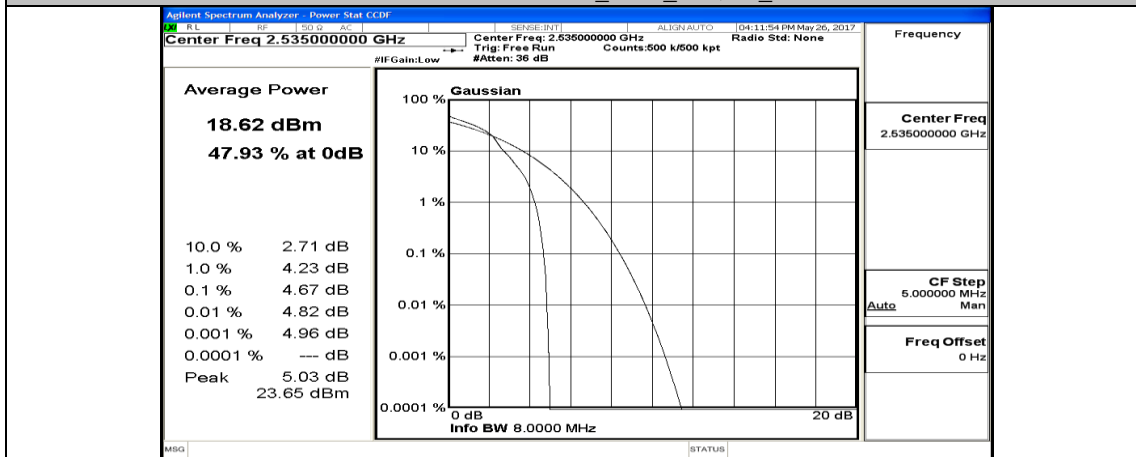
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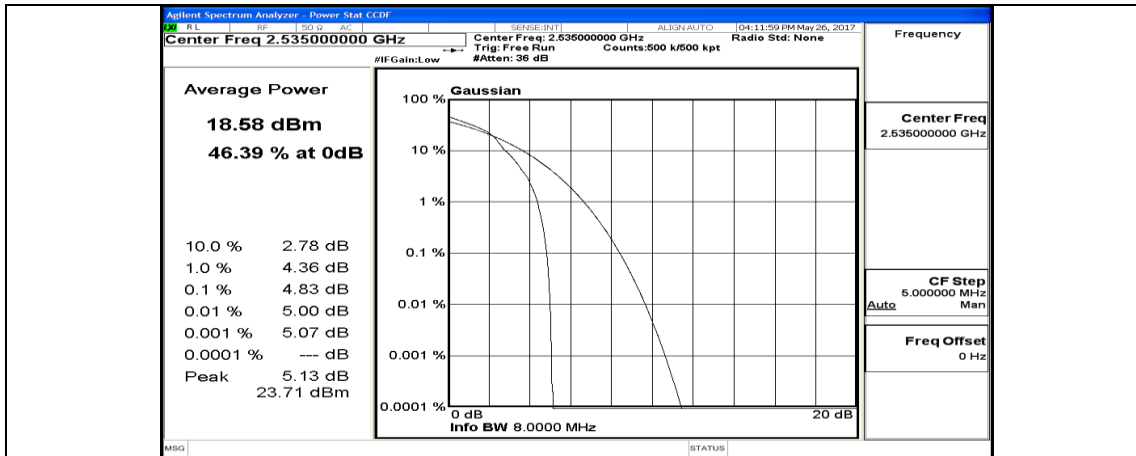
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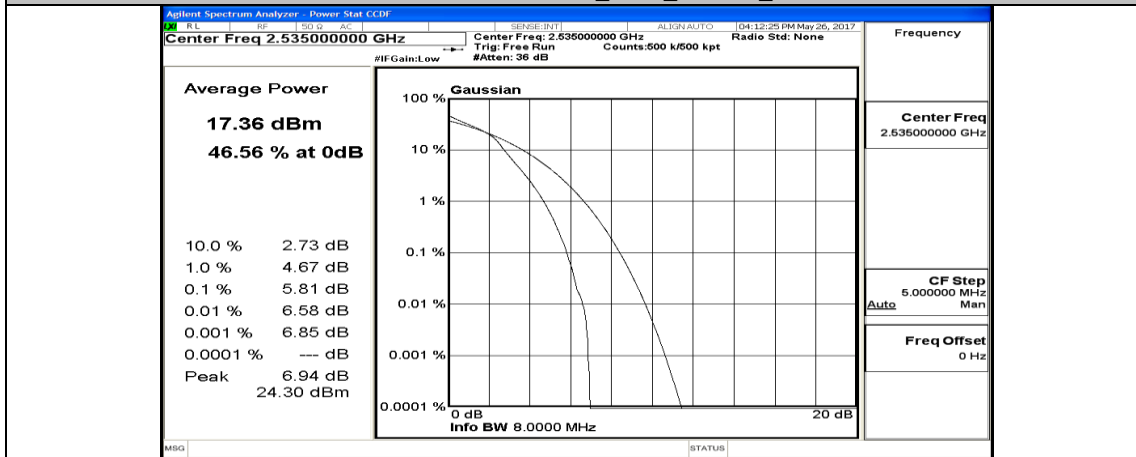
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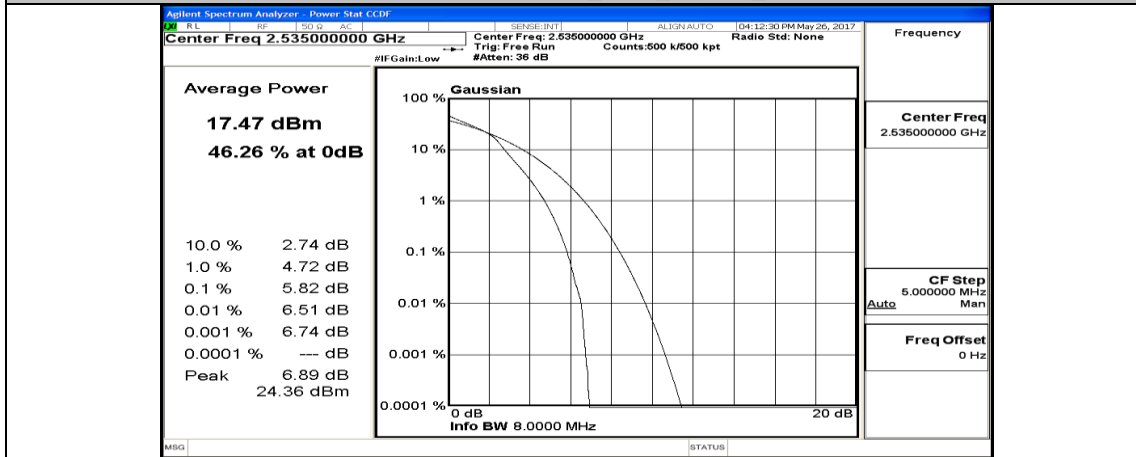
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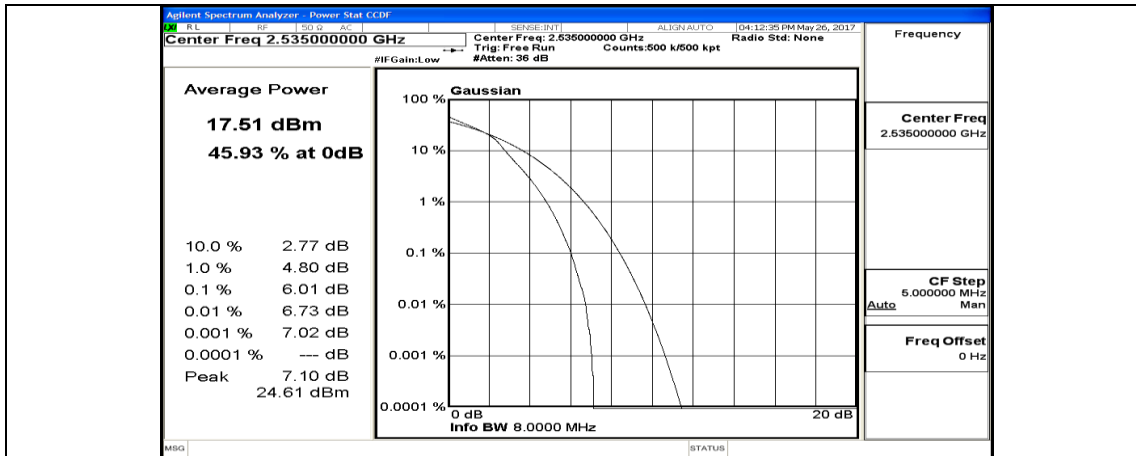
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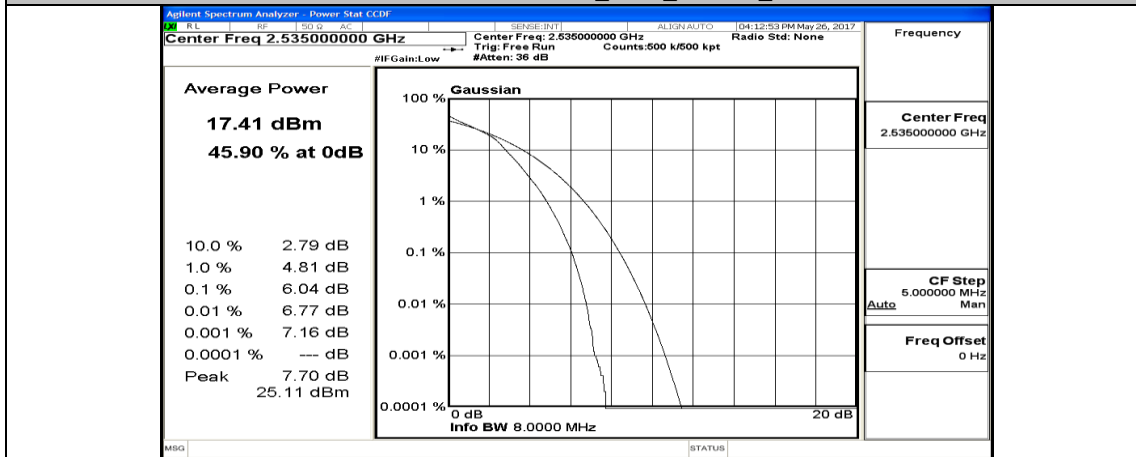
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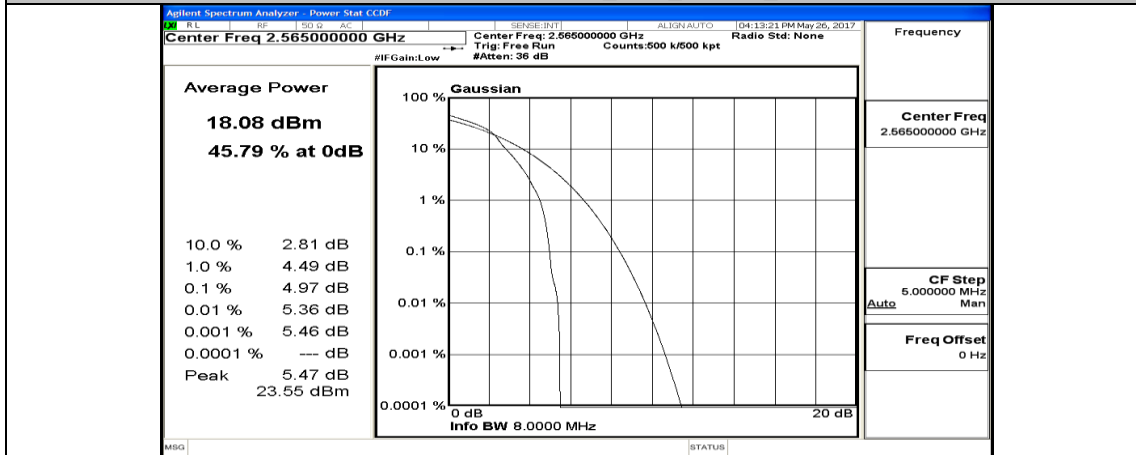
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25



Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24