

A.2: Peak-to-Average Ratio

Channel Bandwidth 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.31	<13	PASS
		1	3	4.42	<13	PASS
		1	5	4.44	<13	PASS
		3	0	4.32	<13	PASS
		3	2	4.38	<13	PASS
		3	3	4.34	<13	PASS
		6	0	4.81	<13	PASS
	MCH	1	0	4.17	<13	PASS
		1	3	4.09	<13	PASS
		1	5	4.19	<13	PASS
		3	0	4.29	<13	PASS
		3	2	4.28	<13	PASS
		3	3	4.27	<13	PASS
		6	0	4.86	<13	PASS
	HCH	1	0	5.15	<13	PASS
		1	3	5.15	<13	PASS
		1	5	5.06	<13	PASS
		3	0	5.18	<13	PASS
		3	2	5.21	<13	PASS
		3	3	5.19	<13	PASS
		6	0	5.64	<13	PASS
16QAM	LCH	1	0	5.21	<13	PASS
		1	3	5.14	<13	PASS
		1	5	5.21	<13	PASS
		3	0	5.2	<13	PASS
		3	2	5.27	<13	PASS
		3	3	5.11	<13	PASS
		6	0	5.66	<13	PASS
	MCH	1	0	5.12	<13	PASS
		1	3	5.14	<13	PASS
		1	5	5.1	<13	PASS
		3	0	5.23	<13	PASS
		3	2	5.22	<13	PASS
		3	3	5.17	<13	PASS
		6	0	5.74	<13	PASS
	HCH	1	0	6.01	<13	PASS
		1	3	6.01	<13	PASS
		1	5	6.18	<13	PASS

		3	0	5.95	<13	PASS
		3	2	5.88	<13	PASS
		3	3	5.92	<13	PASS
		6	0	6.62	<13	PASS

Channel Bandwidth 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.35	<13	PASS
		1	7	4.43	<13	PASS
		1	14	4.77	<13	PASS
		8	0	4.82	<13	PASS
		8	4	4.95	<13	PASS
		8	7	5.09	<13	PASS
		15	0	4.87	<13	PASS
	MCH	1	0	4.11	<13	PASS
		1	7	4.2	<13	PASS
		1	14	4.25	<13	PASS
		8	0	4.75	<13	PASS
		8	4	4.58	<13	PASS
		8	7	4.57	<13	PASS
		15	0	4.44	<13	PASS
	HCH	1	0	4.85	<13	PASS
		1	7	4.91	<13	PASS
		1	14	5.1	<13	PASS
		8	0	5.61	<13	PASS
		8	4	5.72	<13	PASS
		8	7	5.75	<13	PASS
		15	0	5.74	<13	PASS
16QAM	LCH	1	0	5.16	<13	PASS
		1	7	5.17	<13	PASS
		1	14	5.77	<13	PASS
		8	0	5.76	<13	PASS
		8	4	5.64	<13	PASS
		8	7	5.76	<13	PASS
		15	0	5.68	<13	PASS
	MCH	1	0	5.29	<13	PASS
		1	7	4.88	<13	PASS
		1	14	4.97	<13	PASS
		8	0	5.31	<13	PASS
		8	4	5.31	<13	PASS
		8	7	5.32	<13	PASS
		15	0	5.39	<13	PASS

	HCH	1	0	5.79	<13	PASS
		1	7	5.82	<13	PASS
		1	14	5.93	<13	PASS
		8	0	6.26	<13	PASS
		8	4	6.38	<13	PASS
		8	7	6.44	<13	PASS
		15	0	6.43	<13	PASS

Channel Bandwidth 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.17	<13	PASS
		1	12	4.56	<13	PASS
		1	24	4.98	<13	PASS
		12	0	5.03	<13	PASS
		12	6	5.18	<13	PASS
		12	13	5.56	<13	PASS
		25	0	5.3	<13	PASS
	MCH	1	0	3.93	<13	PASS
		1	12	4.1	<13	PASS
		1	24	4.23	<13	PASS
		12	0	4.47	<13	PASS
		12	6	4.51	<13	PASS
		12	13	4.48	<13	PASS
		25	0	4.45	<13	PASS
	HCH	1	0	4.72	<13	PASS
		1	12	4.82	<13	PASS
		1	24	5.26	<13	PASS
		12	0	5.36	<13	PASS
		12	6	5.45	<13	PASS
		12	13	5.69	<13	PASS
		25	0	5.49	<13	PASS
16QAM	LCH	1	0	5.06	<13	PASS
		1	12	5.39	<13	PASS
		1	24	5.88	<13	PASS
		12	0	5.58	<13	PASS
		12	6	5.62	<13	PASS
		12	13	6.18	<13	PASS
		25	0	5.77	<13	PASS
	MCH	1	0	4.96	<13	PASS
		1	12	4.81	<13	PASS
		1	24	5.04	<13	PASS
		12	0	5.29	<13	PASS

		12	6	5.3	<13	PASS
		12	13	5.29	<13	PASS
		25	0	5.34	<13	PASS
	HCH	1	0	5.51	<13	PASS
		1	12	5.53	<13	PASS
		1	24	5.93	<13	PASS
		12	0	6.31	<13	PASS
		12	6	6.35	<13	PASS
		12	13	6.7	<13	PASS
		25	0	6.39	<13	PASS

Channel Bandwidth 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.18	<13	PASS
		1	24	5.1	<13	PASS
		1	49	5.88	<13	PASS
		25	0	5.25	<13	PASS
		25	12	5.7	<13	PASS
		25	25	6.05	<13	PASS
		50	0	5.76	<13	PASS
	MCH	1	0	4.37	<13	PASS
		1	24	4.35	<13	PASS
		1	49	4.74	<13	PASS
		25	0	4.88	<13	PASS
		25	12	4.76	<13	PASS
		25	25	4.55	<13	PASS
		50	0	4.52	<13	PASS
	HCH	1	0	5.05	<13	PASS
		1	24	4.51	<13	PASS
		1	49	4.94	<13	PASS
		25	0	5.48	<13	PASS
		25	12	5.3	<13	PASS
		25	25	5.58	<13	PASS
		50	0	5.51	<13	PASS
16QAM	LCH	1	0	5.16	<13	PASS
		1	24	6.12	<13	PASS
		1	49	6.59	<13	PASS
		25	0	5.99	<13	PASS
		25	12	6.57	<13	PASS
		25	25	7	<13	PASS
		50	0	6.39	<13	PASS
	MCH	1	0	5.35	<13	PASS

		1	24	5.24	<13	PASS
		1	49	5.27	<13	PASS
		25	0	5.49	<13	PASS
		25	12	5.39	<13	PASS
		25	25	5.37	<13	PASS
		50	0	5.34	<13	PASS
	HCH	1	0	5.86	<13	PASS
		1	24	5.42	<13	PASS
		1	49	5.89	<13	PASS
		25	0	6.31	<13	PASS
		25	12	6.16	<13	PASS
		25	25	6.4	<13	PASS
		50	0	6.24	<13	PASS

Channel Bandwidth 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.06	<13	PASS
		1	37	5.75	<13	PASS
		1	74	5.67	<13	PASS
		37	0	5.47	<13	PASS
		37	18	6.09	<13	PASS
		37	38	6.32	<13	PASS
		75	0	6.29	<13	PASS
	MCH	1	0	4.51	<13	PASS
		1	37	4.26	<13	PASS
		1	74	5.12	<13	PASS
		37	0	5.01	<13	PASS
		37	18	4.88	<13	PASS
		37	38	5.02	<13	PASS
		75	0	5.16	<13	PASS
	HCH	1	0	5.62	<13	PASS
		1	37	4.91	<13	PASS
		1	74	5.28	<13	PASS
		37	0	5.91	<13	PASS
		37	18	5.48	<13	PASS
		37	38	5.39	<13	PASS
		75	0	6.04	<13	PASS
16QAM	LCH	1	0	5.32	<13	PASS
		1	37	6.75	<13	PASS
		1	74	6.26	<13	PASS
		37	0	6.24	<13	PASS
		37	18	6.78	<13	PASS

		37	38	7.09	<13	PASS
		75	0	6.81	<13	PASS
	MCH	1	0	5.37	<13	PASS
		1	37	5.04	<13	PASS
		1	74	6.07	<13	PASS
		37	0	5.87	<13	PASS
		37	18	5.51	<13	PASS
		37	38	5.62	<13	PASS
		75	0	5.83	<13	PASS
	HCH	1	0	6.77	<13	PASS
		1	37	5.77	<13	PASS
		1	74	6.07	<13	PASS
		37	0	6.75	<13	PASS
		37	18	6.35	<13	PASS
		37	38	6.26	<13	PASS
		75	0	6.52	<13	PASS

Channel Bandwidth 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.28	<13	PASS
		1	49	5.87	<13	PASS
		1	99	5.08	<13	PASS
		50	0	5.84	<13	PASS
		50	25	6.37	<13	PASS
		50	50	6.1	<13	PASS
		100	0	6.03	<13	PASS
	MCH	1	0	4.64	<13	PASS
		1	49	4.11	<13	PASS
		1	99	5.42	<13	PASS
		50	0	5.17	<13	PASS
		50	25	4.93	<13	PASS
		50	50	5.24	<13	PASS
		100	0	5.38	<13	PASS
	HCH	1	0	5.86	<13	PASS
		1	49	5.21	<13	PASS
		1	99	5.16	<13	PASS
		50	0	6.21	<13	PASS
		50	25	5.79	<13	PASS
		50	50	5.48	<13	PASS
		100	0	5.96	<13	PASS
16QAM	LCH	1	0	5.21	<13	PASS
		1	49	6.85	<13	PASS

		1	99	5.54	<13	PASS
		50	0	6.52	<13	PASS
		50	25	7.13	<13	PASS
		50	50	6.86	<13	PASS
		100	0	6.74	<13	PASS
	MCH	1	0	5.4	<13	PASS
		1	49	5.01	<13	PASS
		1	99	6.56	<13	PASS
		50	0	5.96	<13	PASS
		50	25	5.78	<13	PASS
		50	50	6.02	<13	PASS
		100	0	6.08	<13	PASS
	HCH	1	0	6.69	<13	PASS
		1	49	5.99	<13	PASS
		1	99	5.99	<13	PASS
		50	0	6.93	<13	PASS
		50	25	6.62	<13	PASS
		50	50	6.2	<13	PASS
		100	0	6.65	<13	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



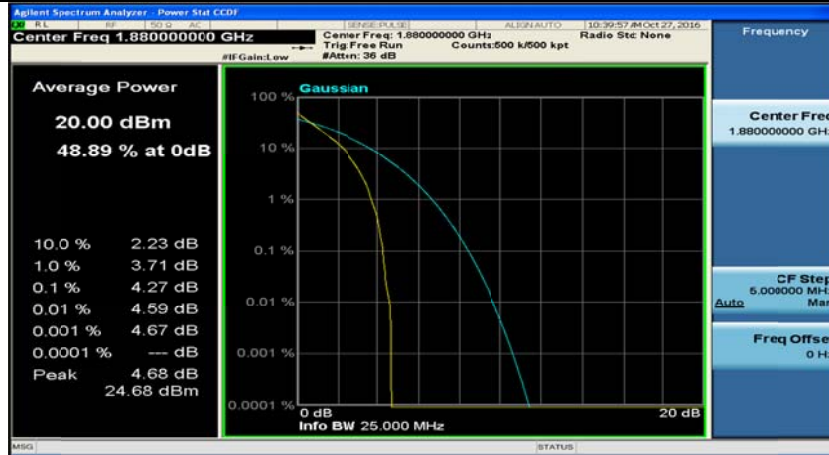
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



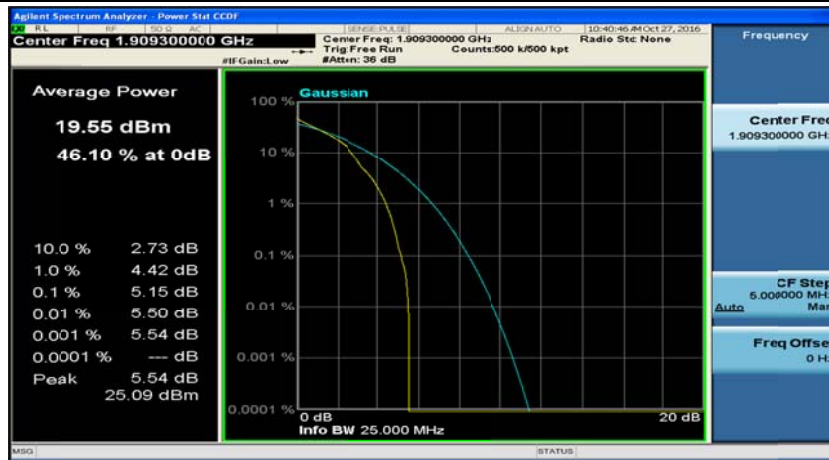
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



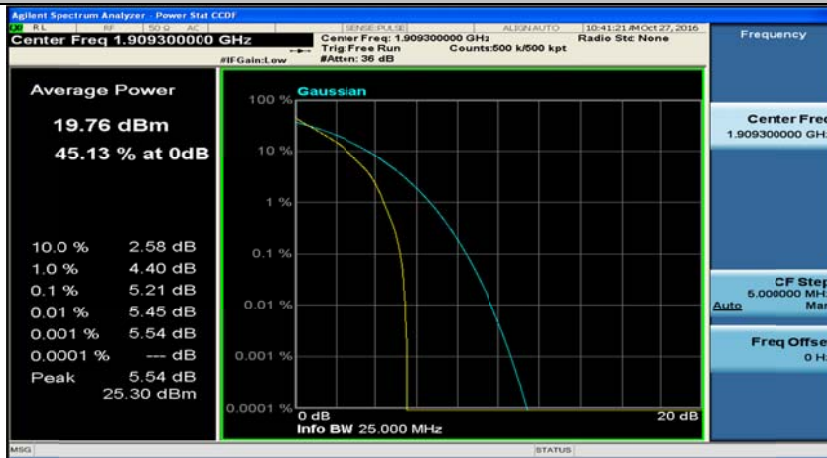
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(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



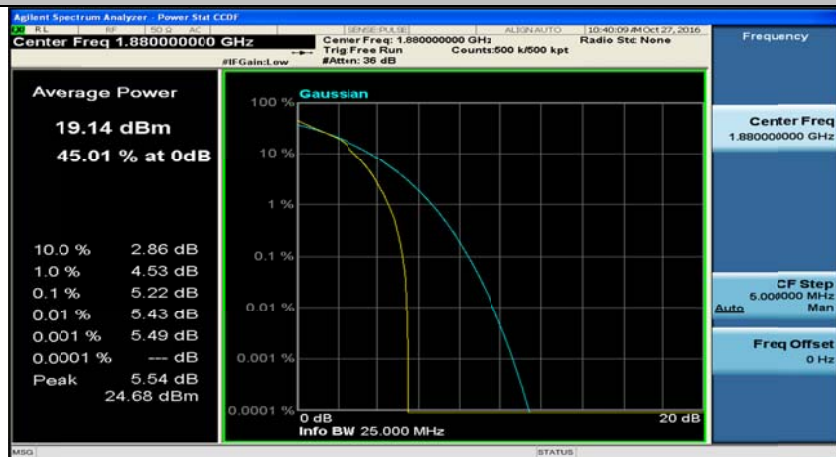
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

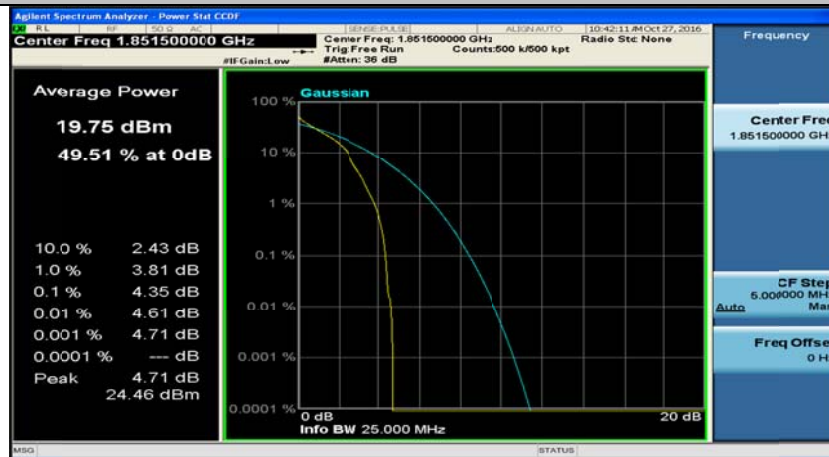


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0



Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



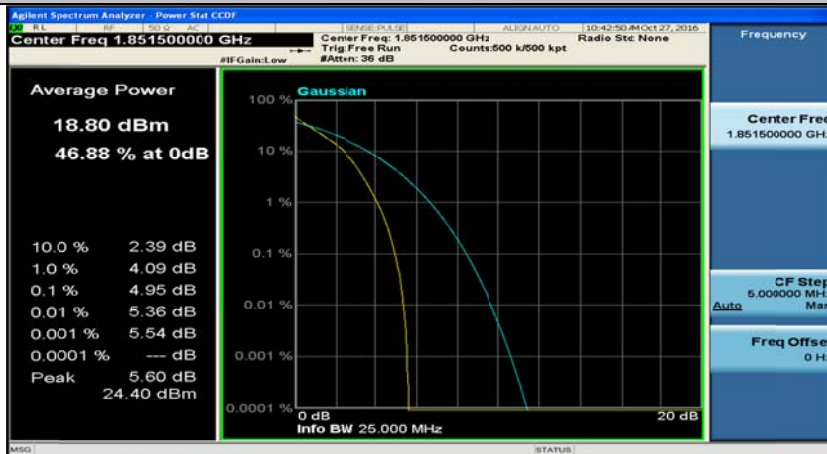
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(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



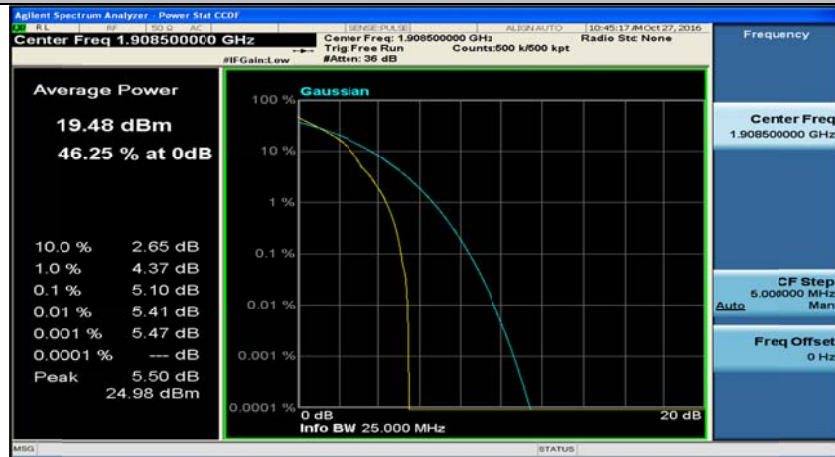
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



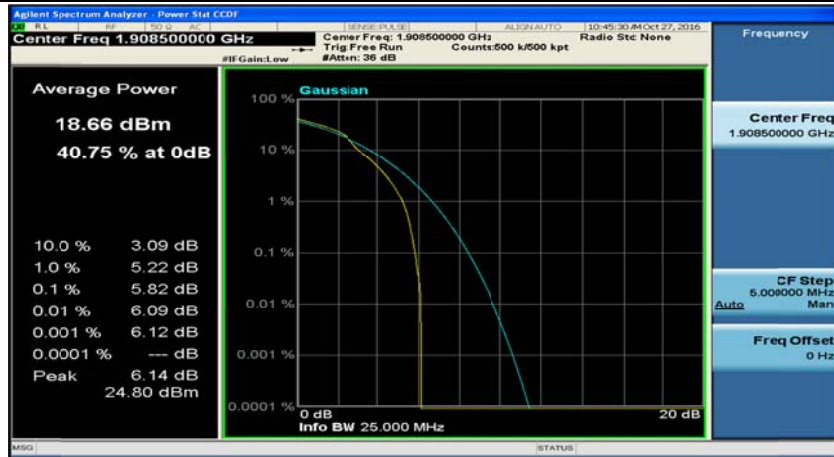
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

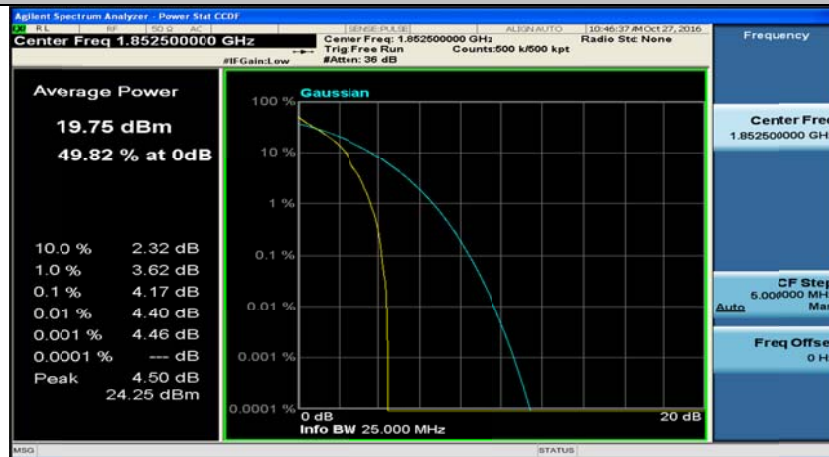


(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0



Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



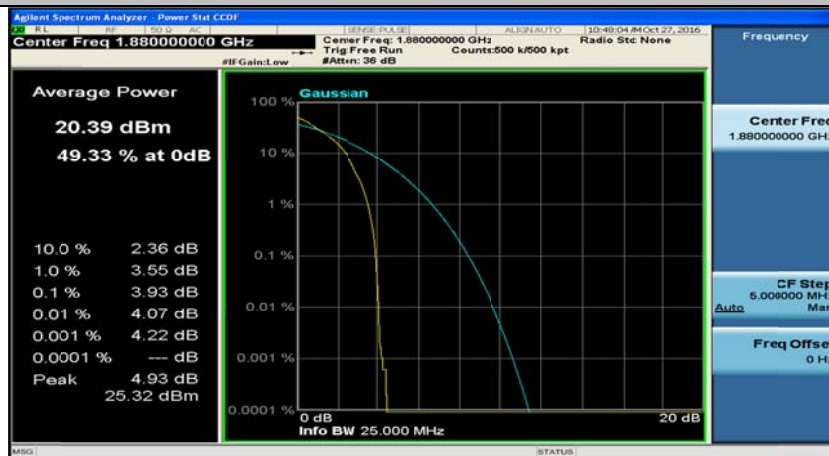
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



(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

