Appendix I: Test Data for E-UTRA Band 7

Product Name: Smart phone
Test Model: VSP100
FCC ID: 2ASQ6-VSP100
IC: 24870-VSP100

Environmental Conditions

Temperature:	22.8 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden Zhuo

I.1 Conducted Output Power

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK/ 16QAM	LCH	1	0	22.75	22.99	PASS
		1	12	22.44	22.73	PASS
		1	24	22.27	22.62	PASS
		12	0	22.27	22.45	PASS
		12	6	22.13	22.29	PASS
		12	13	22.05	22.22	PASS
		25	0	22.06	22.14	PASS
	MCH	1	0	22.85	22.94	PASS
		1	12	22.84	22.94	PASS
		1	24	22.77	22.86	PASS
		12	0	22.86	22.70	PASS
		12	6	22.87	22.78	PASS
		12	13	22.76	22.69	PASS
		25	0	22.86	22.75	PASS
	HCH	1	0	21.99	22.09	PASS
		1	12	22.23	22.34	PASS
		1	24	22.34	22.46	PASS
		12	0	21.98	21.72	PASS

		12	6	22.12	21.89	PASS
		12	13	22.19	21.93	PASS
		25	0	22.10	21.88	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK/ 16QAM	LCH	1	0	22.34	22.60	PASS
		1	24	21.97	22.25	PASS
		1	49	22.68	22.85	PASS
		25	0	22.04	22.14	PASS
		25	12	22.04	22.08	PASS
		25	25	22.33	21.86	PASS
		50	0	22.20	22.01	PASS
	MCH	1	0	22.00	22.33	PASS
		1	24	21.84	22.21	PASS
		1	49	21.78	22.13	PASS
		25	0	22.92	22.79	PASS
		25	12	22.84	22.80	PASS
		25	25	22.82	22.75	PASS
		50	0	22.89	22.77	PASS
	HCH	1	0	21.88	22.23	PASS
		1	24	21.97	22.33	PASS
		1	49	22.45	22.84	PASS
		25	0	21.80	21.44	PASS
		25	12	21.92	21.62	PASS
		25	25	22.15	21.82	PASS
		50	0	21.99	21.64	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK/ 16QAM	LCH	1	0	22.14	22.42	PASS
		1	37	22.16	22.41	PASS
		1	74	23.21	22.74	PASS
		37	0	21.97	21.98	PASS
		37	18	22.21	21.75	PASS
		37	38	22.65	21.56	PASS
		75	0	22.49	21.79	PASS
	MCH	1	0	21.88	22.17	PASS
		1	37	21.81	22.13	PASS
		1	74	21.82	22.14	PASS
		37	0	22.86	22.63	PASS
		37	18	22.78	22.72	PASS
		37	38	22.80	22.63	PASS
		75	0	22.84	22.68	PASS
	HCH	1	0	22.10	21.96	PASS
		1	37	21.85	22.17	PASS
		1	74	22.52	22.84	PASS
		37	0	21.86	21.09	PASS
		37	18	21.82	21.29	PASS
		37	38	22.11	21.66	PASS
		75	0	21.96	21.34	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK/ 16QAM	LCH	1	0	22.07	22.12	PASS
		1	49	22.62	22.72	PASS
		1	99	23.22	22.71	PASS
		50	0	22.03	21.70	PASS
		50	25	22.57	21.53	PASS
		50	50	22.44	21.42	PASS
		100	0	22.54	21.53	PASS
	MCH	1	0	22.75	22.82	PASS
		1	49	21.95	22.13	PASS
		1	99	22.80	22.88	PASS
		50	0	22.77	22.56	PASS
		50	25	22.76	22.77	PASS
		50	50	22.69	22.58	PASS
		100	0	22.72	22.55	PASS
	HCH	1	0	22.36	22.10	PASS
		1	49	22.03	22.38	PASS
		1	99	22.43	22.80	PASS
		50	0	22.00	21.04	PASS
		50	25	21.98	21.14	PASS
		50	50	22.01	21.47	PASS
		100	0	22.07	21.15	PASS

I.2 Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	5.3	<13	PASS
		1	12	5.4	<13	PASS
		1	24	5.31	<13	PASS
		12	0	5.79	<13	PASS
		12	6	5.8	<13	PASS
		12	13	5.79	<13	PASS
		25	0	5.89	<13	PASS
	MCH	1	0	5.67	<13	PASS
		1	12	5.62	<13	PASS
		1	24	5.69	<13	PASS
		12	0	5.83	<13	PASS
		12	6	5.84	<13	PASS
		12	13	5.74	<13	PASS
		25	0	5.82	<13	PASS
	HCH	1	0	5.49	<13	PASS
		1	12	5.42	<13	PASS
		1	24	5.29	<13	PASS
		12	0	5.68	<13	PASS
		12	6	5.61	<13	PASS
		12	13	5.55	<13	PASS
		25	0	5.69	<13	PASS
16QAM	LCH	1	0	5.97	<13	PASS
		1	12	6.05	<13	PASS
		1	24	5.99	<13	PASS
		12	0	6.4	<13	PASS
		12	6	6.33	<13	PASS
		12	13	6.35	<13	PASS
		25	0	6.49	<13	PASS
	MCH	1	0	5.89	<13	PASS
		1	12	6.06	<13	PASS
		1	24	6.12	<13	PASS
		12	0	6.58	<13	PASS
		12	6	6.47	<13	PASS

		12	13	6.58	<13	PASS
		25	0	6.47	<13	PASS
	HCH	1	0	6.21	<13	PASS
		1	12	5.93	<13	PASS
		1	24	5.94	<13	PASS
		12	0	6.27	<13	PASS
		12	6	6.17	<13	PASS
		12	13	6.15	<13	PASS
		25	0	6.28	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.54	<13	PASS
		1	24	5.63	<13	PASS
		1	49	4.86	<13	PASS
		25	0	5.83	<13	PASS
		25	12	5.76	<13	PASS
		25	25	5.5	<13	PASS
		50	0	5.7	<13	PASS
	MCH	1	0	5.56	<13	PASS
		1	24	5.57	<13	PASS
		1	49	5.6	<13	PASS
		25	0	5.78	<13	PASS
		25	12	5.81	<13	PASS
		25	25	5.83	<13	PASS
		50	0	5.79	<13	PASS
	HCH	1	0	5.18	<13	PASS
		1	24	5.35	<13	PASS
		1	49	4.89	<13	PASS
		25	0	5.76	<13	PASS
		25	12	5.79	<13	PASS
		25	25	5.59	<13	PASS
		50	0	5.76	<13	PASS
16QAM	LCH	1	0	6.09	<13	PASS
		1	24	6.07	<13	PASS
		1	49	5.44	<13	PASS
		25	0	6.4	<13	PASS
		25	12	6.3	<13	PASS
		25	25	6.26	<13	PASS
		50	0	6.27	<13	PASS
	MCH	1	0	6.17	<13	PASS
		1	24	6.3	<13	PASS
		1	49	6.24	<13	PASS
		25	0	6.42	<13	PASS
		25	12	6.51	<13	PASS
		25	25	6.39	<13	PASS
		50	0	6.4	<13	PASS
	HCH	1	0	5.77	<13	PASS
		1	24	5.98	<13	PASS

		1	49	5.53	<13	PASS
		25	0	6.41	<13	PASS
		25	12	6.42	<13	PASS
		25	25	6.29	<13	PASS
		50	0	6.38	<13	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	8.46	<13	PASS
		1	37	5.21	<13	PASS
		1	74	10.67	<13	PASS
		37	0	4.87	<13	PASS
		37	18	5.56	<13	PASS
		37	38	4.76	<13	PASS
		75	0	5.06	<13	PASS
	MCH	1	0	8.51	<13	PASS
		1	37	5.52	<13	PASS
		1	74	10.03	<13	PASS
		37	0	4.86	<13	PASS
		37	18	5.78	<13	PASS
		37	38	5.01	<13	PASS
		75	0	4.99	<13	PASS
	HCH	1	0	8.5	<13	PASS
		1	37	5.61	<13	PASS
		1	74	10.25	<13	PASS
		37	0	4.78	<13	PASS
		37	18	5.69	<13	PASS
		37	38	4.91	<13	PASS
		75	0	5.05	<13	PASS
16QAM	LCH	1	0	8.94	<13	PASS
		1	37	5.72	<13	PASS
		1	74	11.18	<13	PASS
		37	0	6.02	<13	PASS
		37	18	6.21	<13	PASS
		37	38	6.02	<13	PASS
		75	0	6.28	<13	PASS
	MCH	1	0	8.94	<13	PASS
		1	37	6.2	<13	PASS
		1	74	10.89	<13	PASS
		37	0	6.08	<13	PASS
		37	18	6.43	<13	PASS
		37	38	6.21	<13	PASS
		75	0	6.31	<13	PASS
	HCH	1	0	8.36	<13	PASS
		1	37	6.21	<13	PASS

		1	74	10.96	<13	PASS
		37	0	6.06	<13	PASS
		37	18	6.46	<13	PASS
		37	38	6.19	<13	PASS
		75	0	6.34	<13	PASS

Channel Bandwidth: 20 MHz

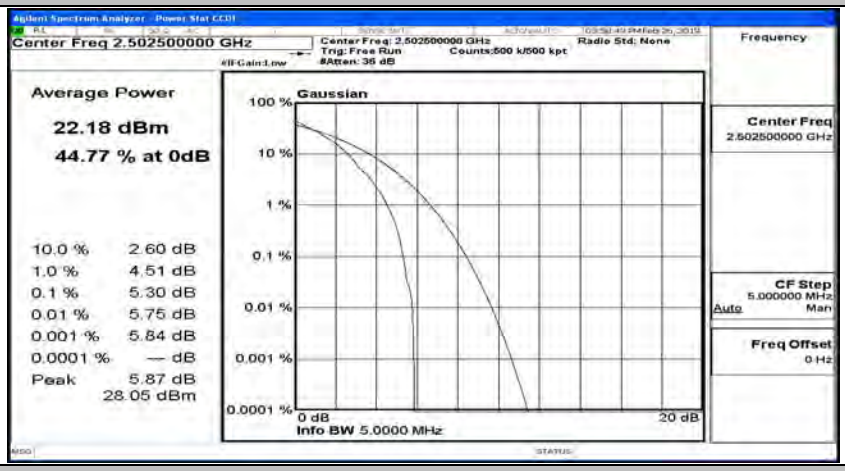
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	7.45	<13	PASS
		1	49	4.87	<13	PASS
		1	99	7.33	<13	PASS
		50	0	5.52	<13	PASS
		50	25	5.4	<13	PASS
		50	50	5.86	<13	PASS
		100	0	5.69	<13	PASS
	MCH	1	0	7.32	<13	PASS
		1	49	5.55	<13	PASS
		1	99	7.18	<13	PASS
		50	0	5.55	<13	PASS
		50	25	5.8	<13	PASS
		50	50	5.99	<13	PASS
		100	0	5.67	<13	PASS
	HCH	1	0	7.38	<13	PASS
		1	49	5.37	<13	PASS
		1	99	7.36	<13	PASS
		50	0	5.52	<13	PASS
		50	25	5.64	<13	PASS
		50	50	6.01	<13	PASS
		100	0	5.75	<13	PASS
16QAM	LCH	1	0	7.21	<13	PASS
		1	49	5.27	<13	PASS
		1	99	7.13	<13	PASS
		50	0	6.54	<13	PASS
		50	25	6.19	<13	PASS
		50	50	6.66	<13	PASS
		100	0	6.78	<13	PASS
	MCH	1	0	7.34	<13	PASS
		1	49	6.01	<13	PASS
		1	99	7.06	<13	PASS
		50	0	6.63	<13	PASS
		50	25	6.45	<13	PASS
		50	50	6.78	<13	PASS
		100	0	6.85	<13	PASS
	HCH	1	0	7.34	<13	PASS
		1	49	5.63	<13	PASS

		1	99	7.57	<13	PASS
		50	0	6.62	<13	PASS
		50	25	6.33	<13	PASS
		50	50	6.73	<13	PASS
		100	0	6.77	<13	PASS

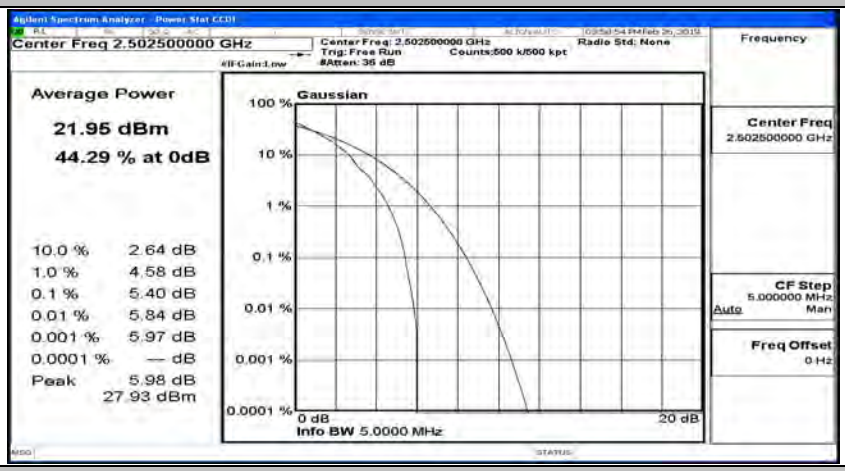
Test Graphs

Channel Bandwidth: 5 MHz

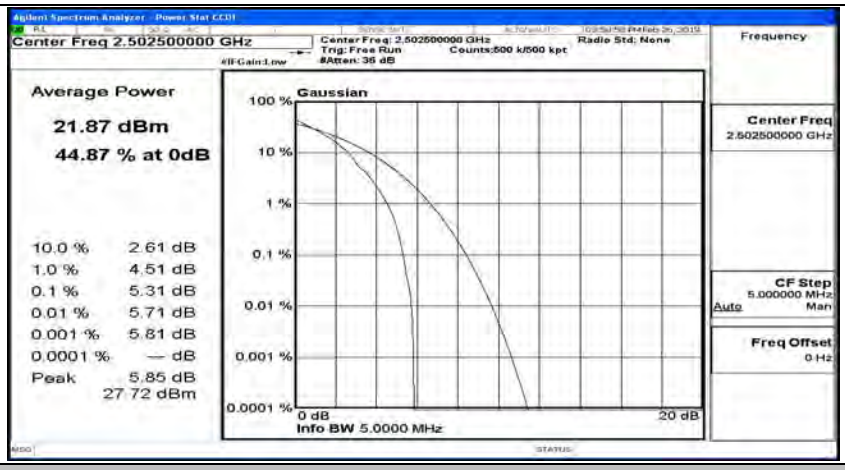
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



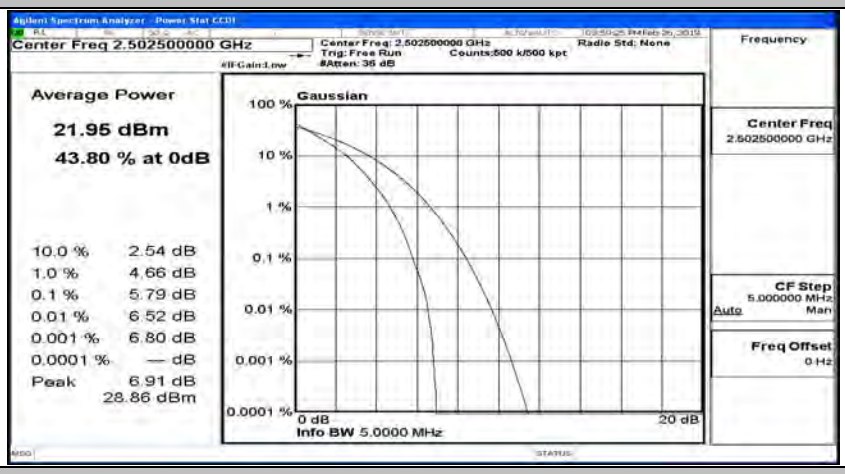
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



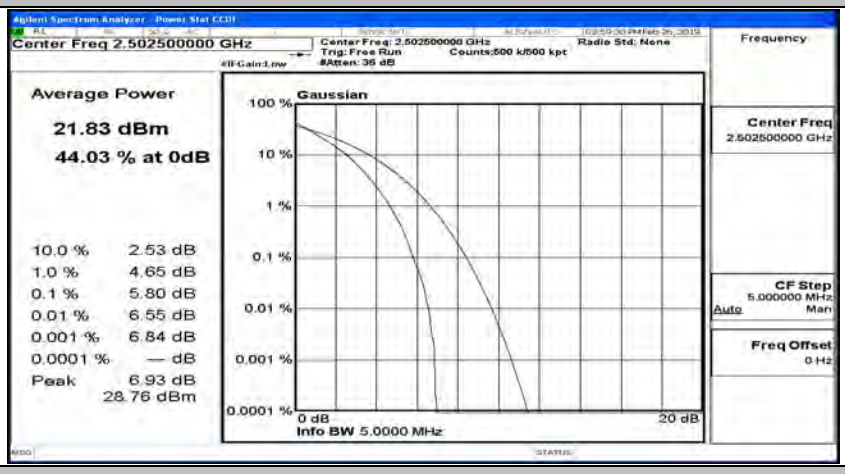
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



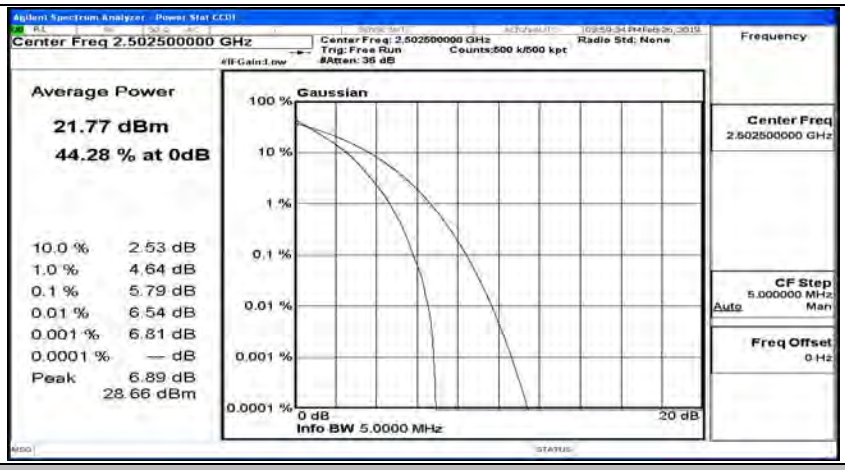
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



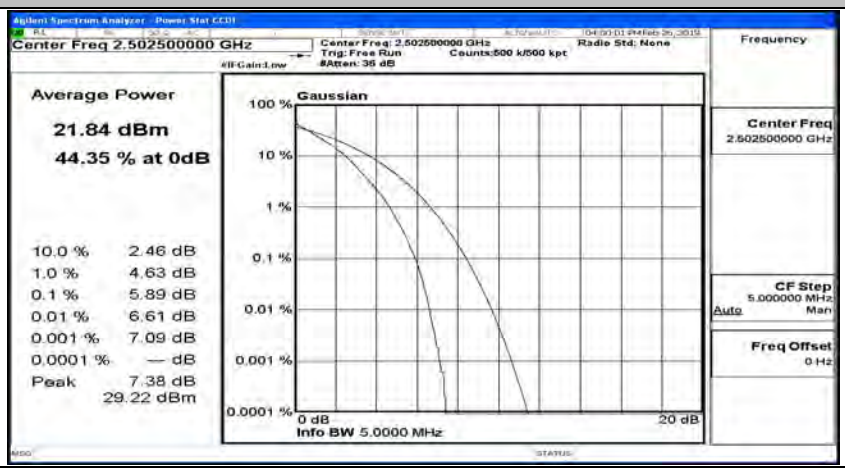
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

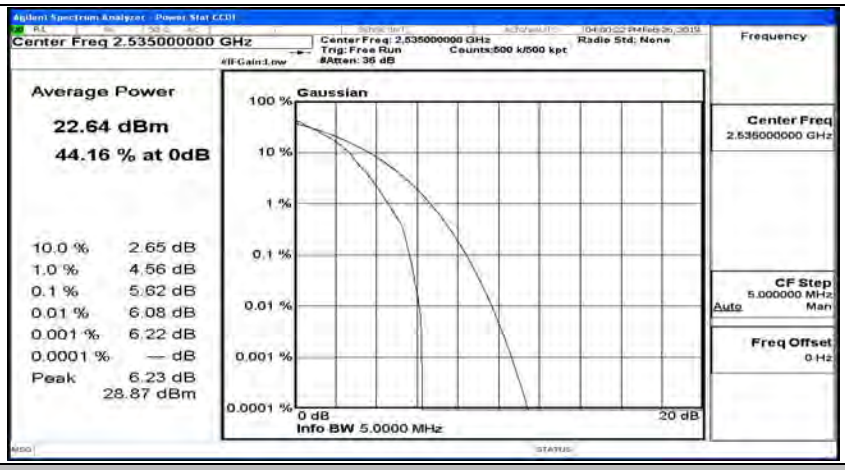


(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

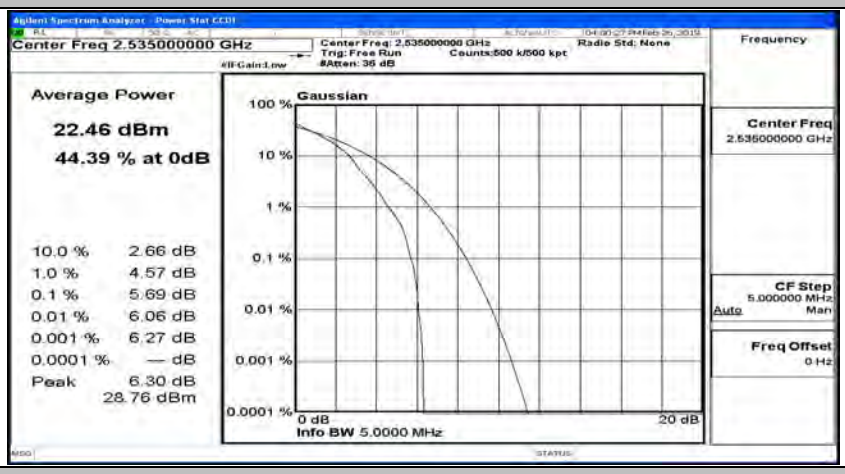


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

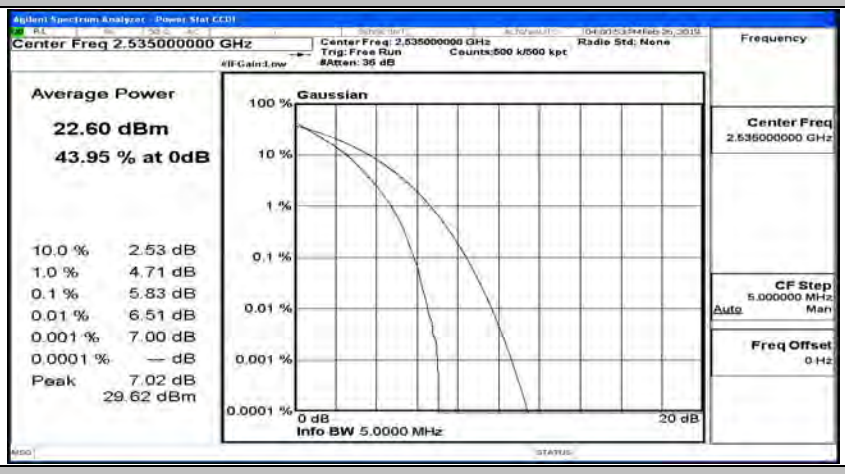
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



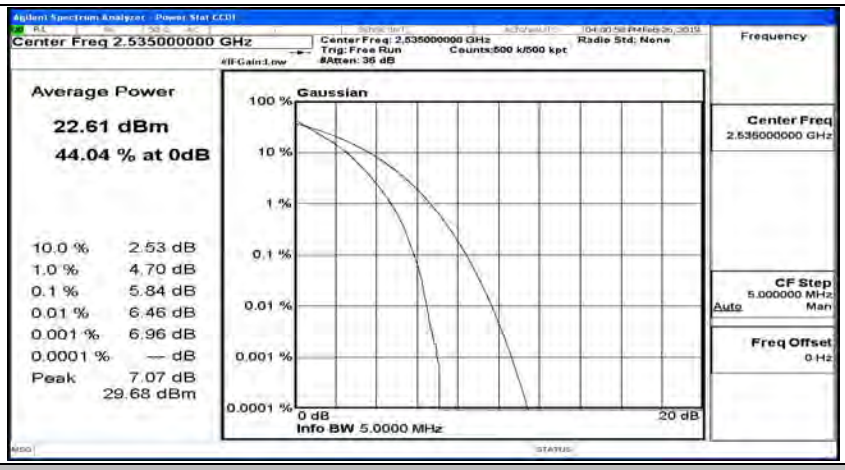
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



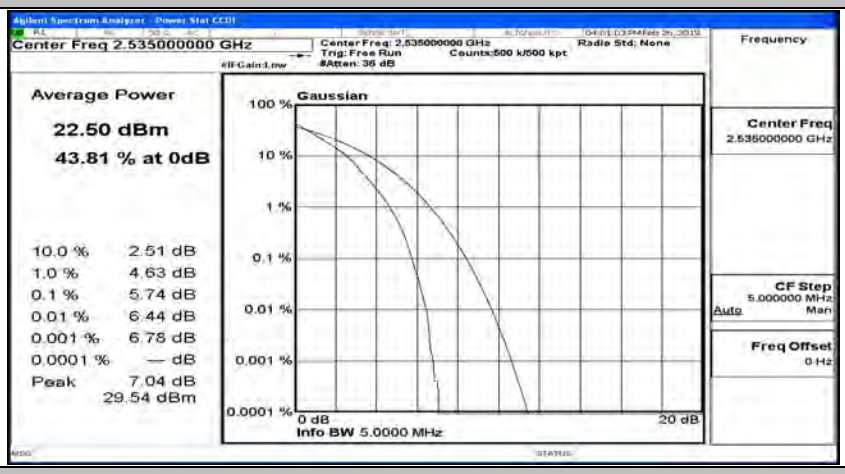
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



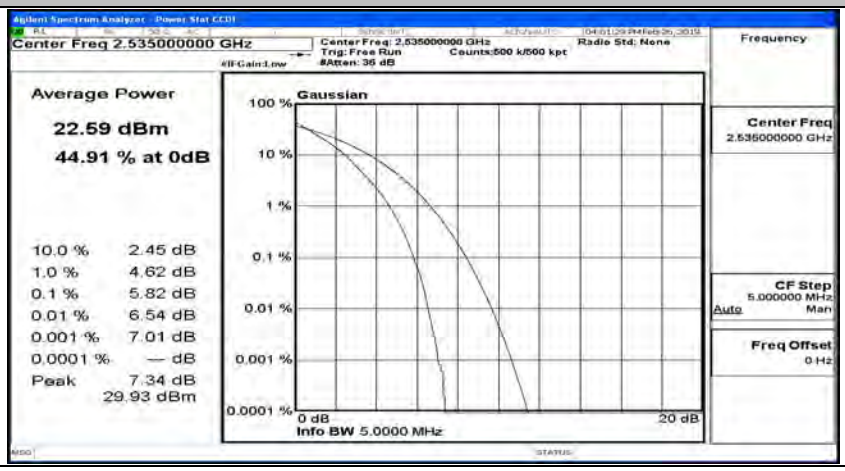
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



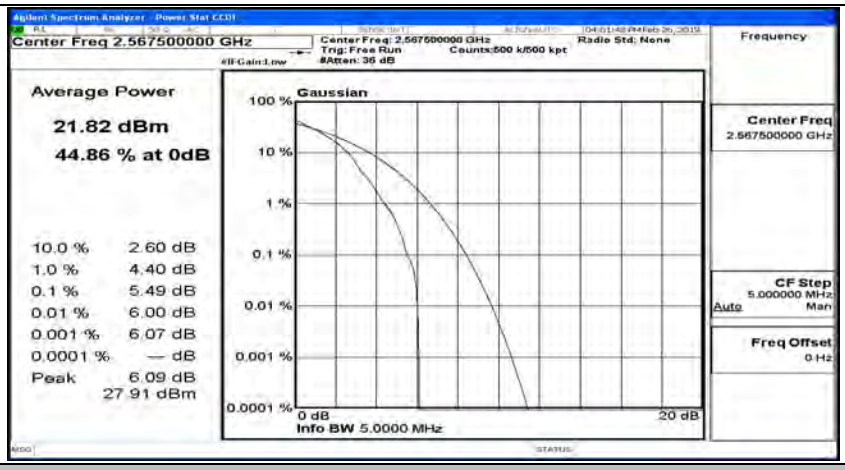
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



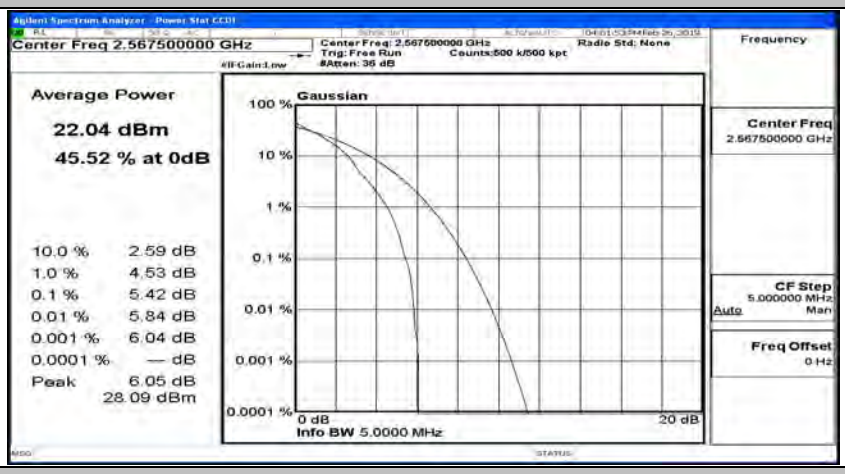
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



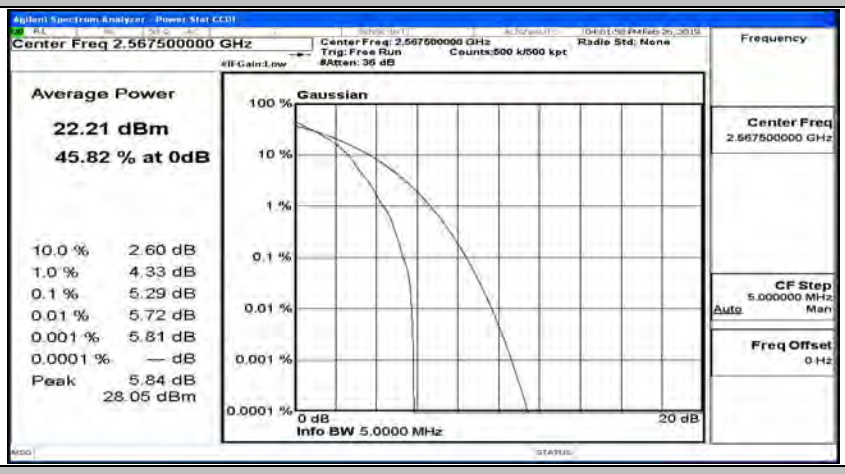
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



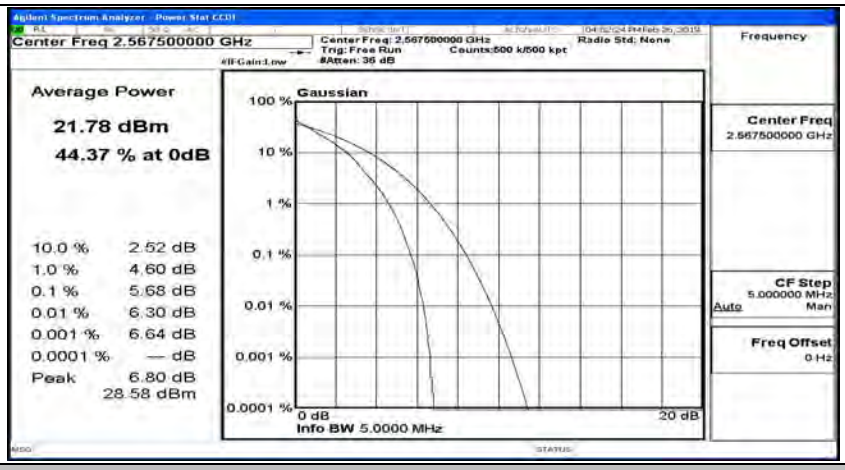
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



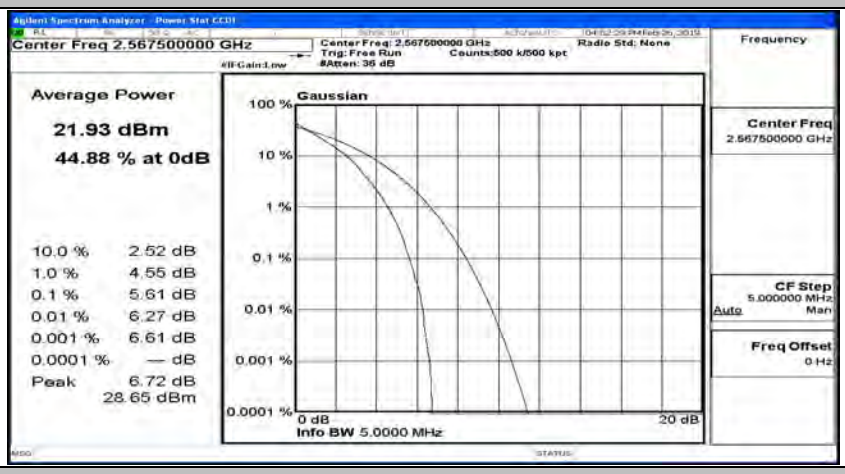
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



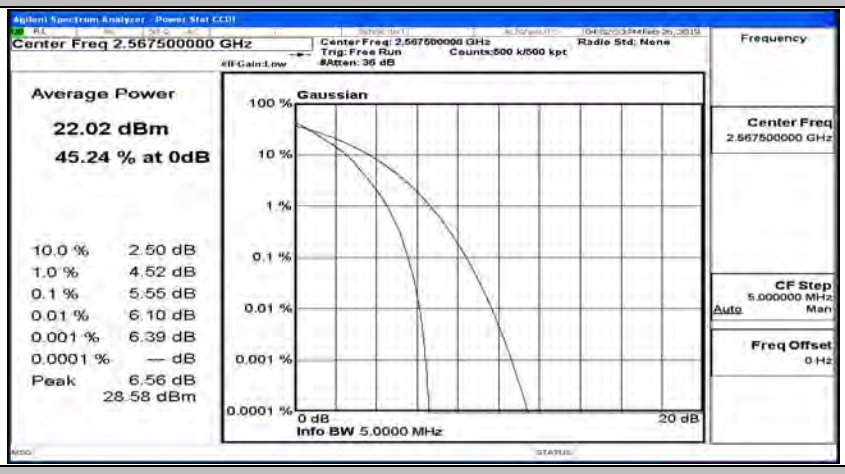
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



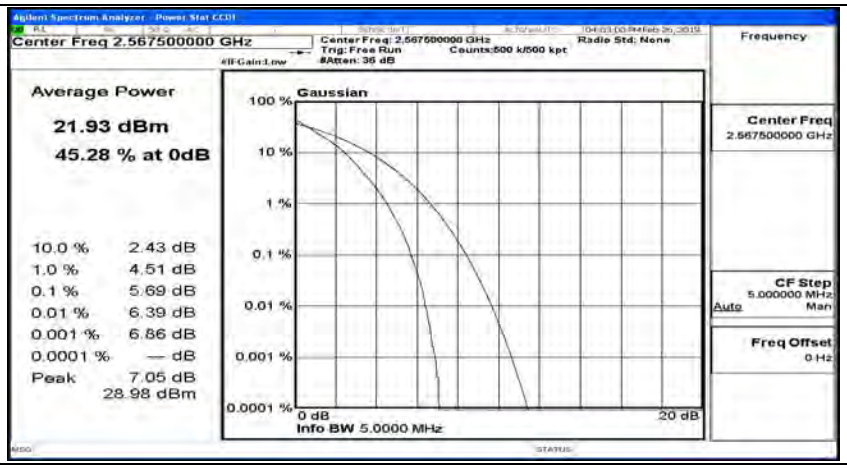
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



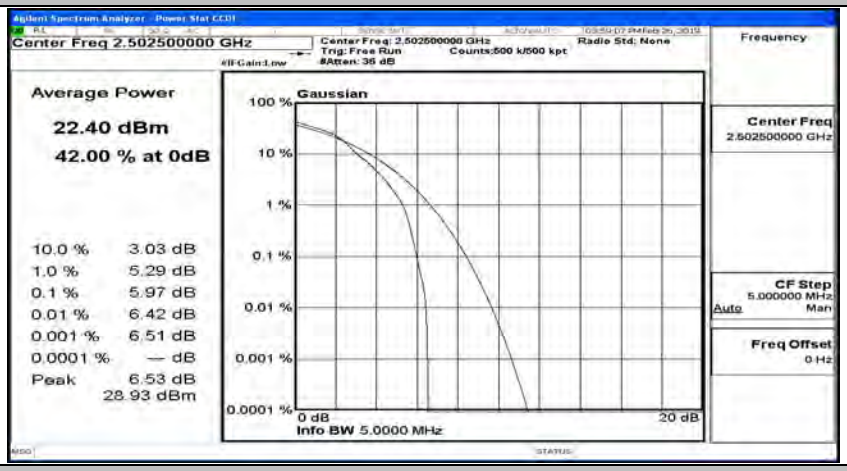
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



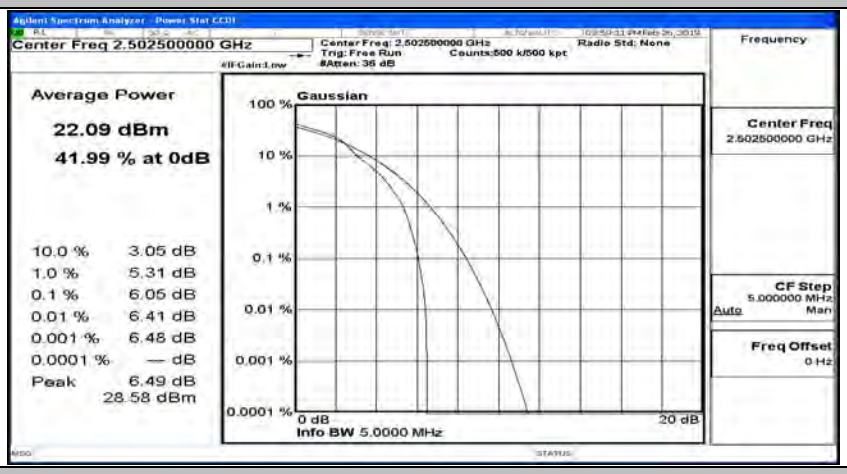
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



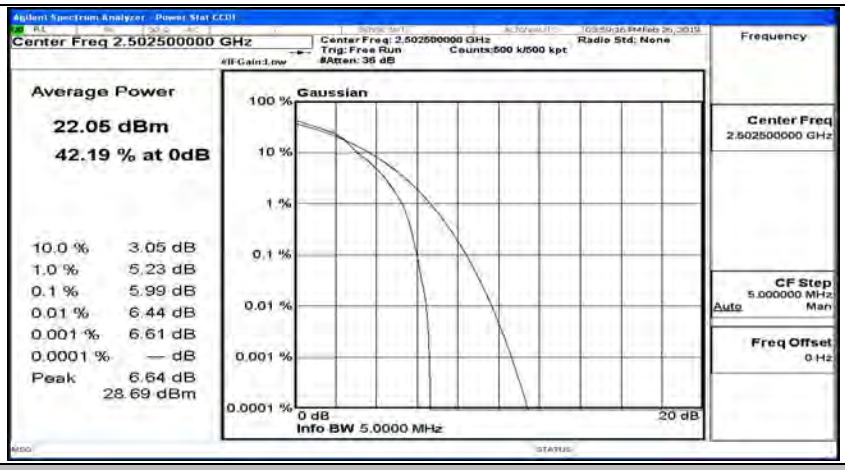
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



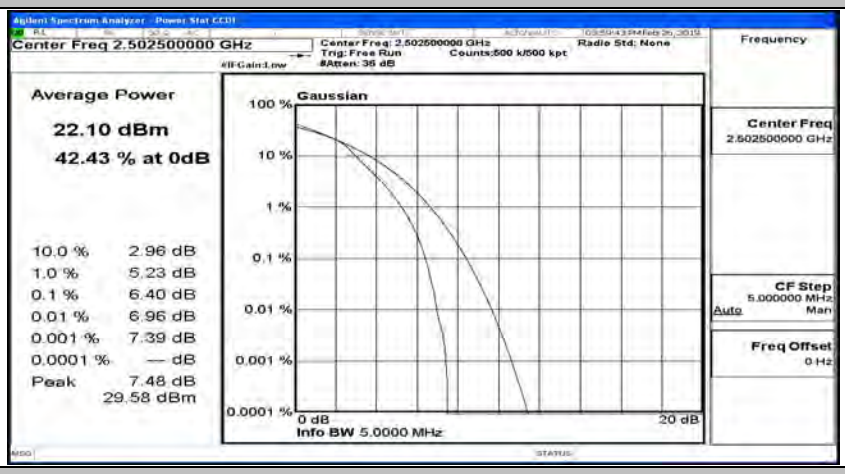
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



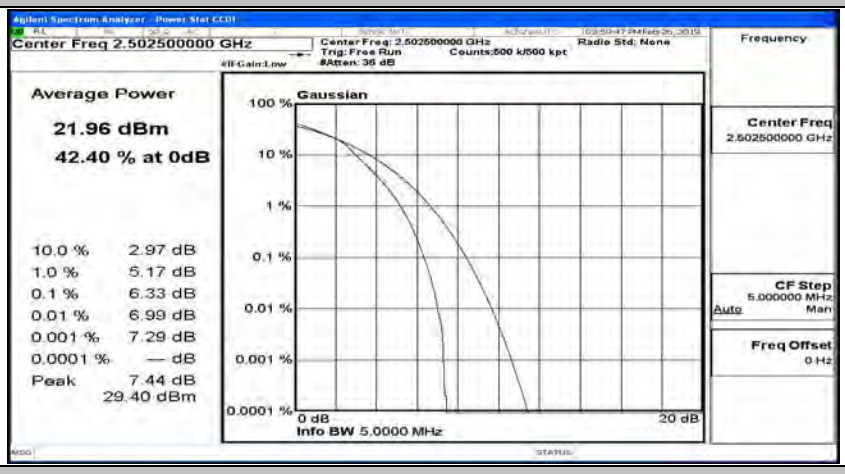
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



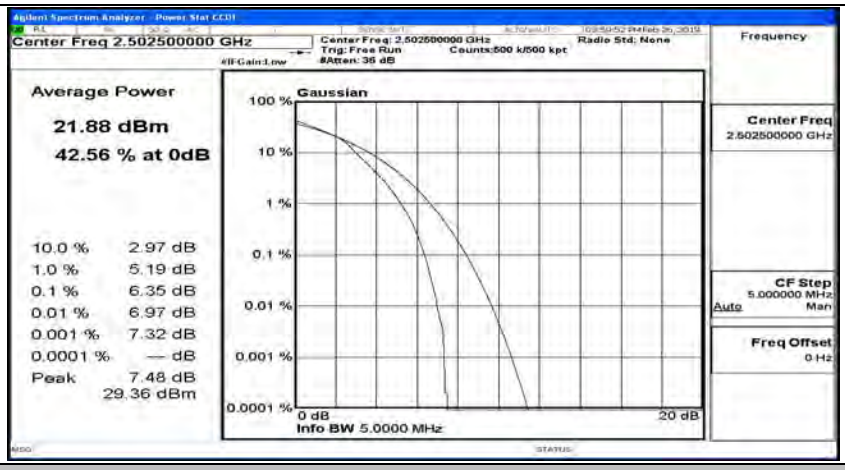
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



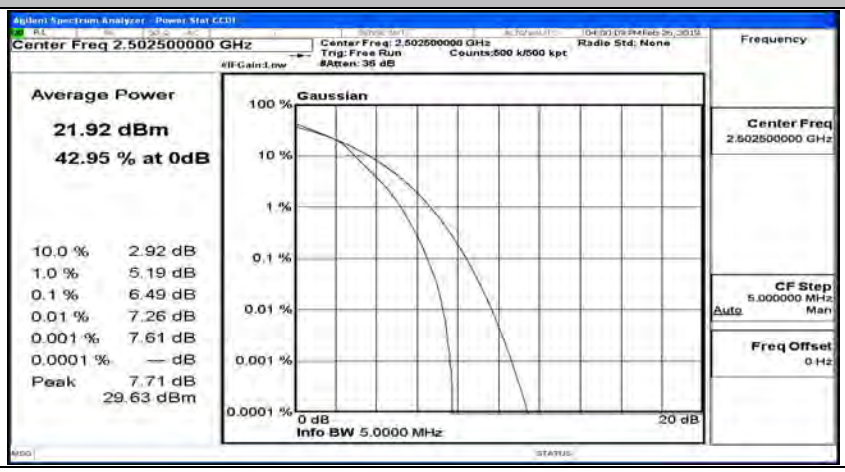
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13

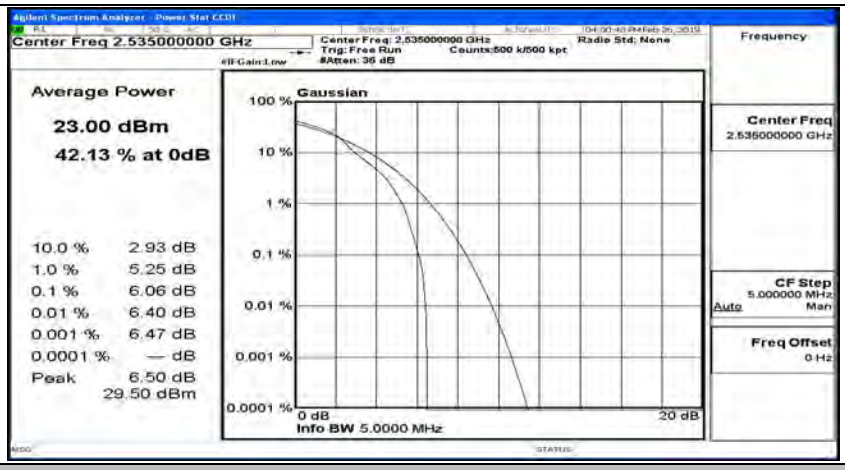


(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

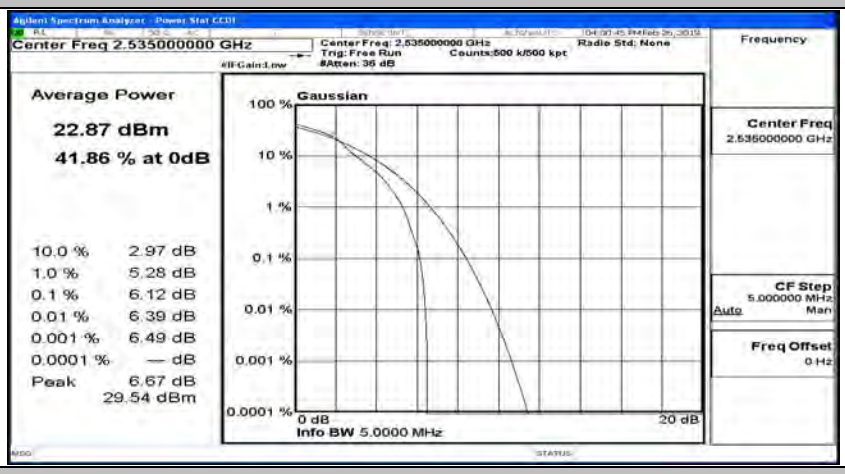


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

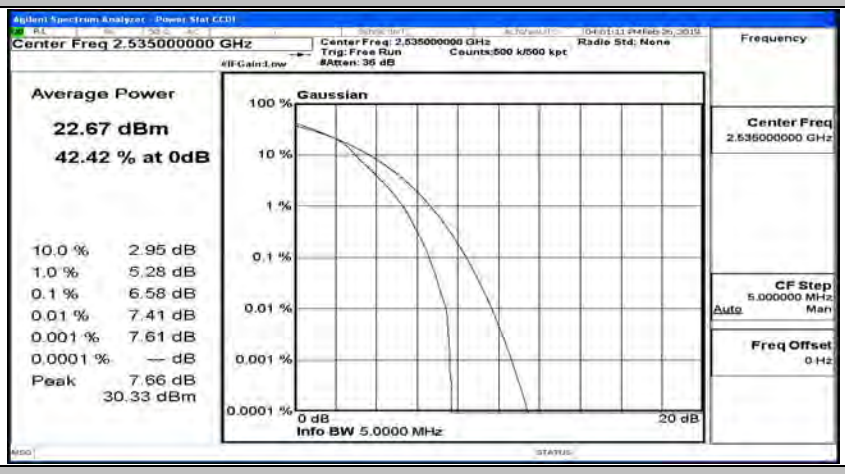
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



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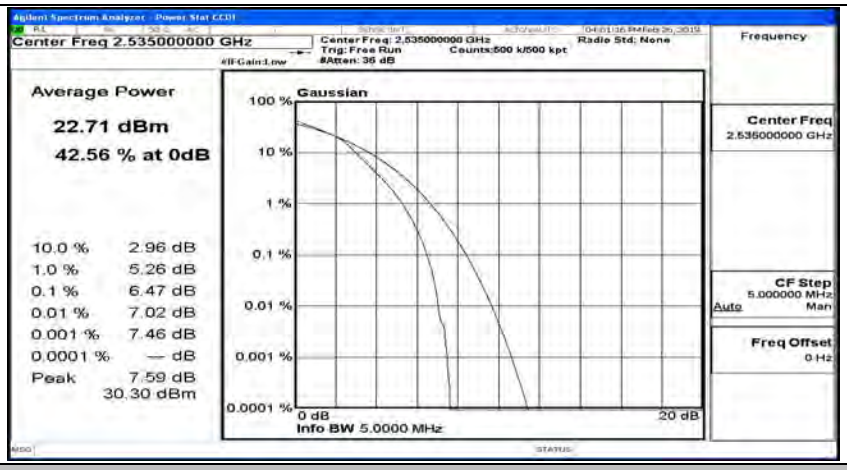
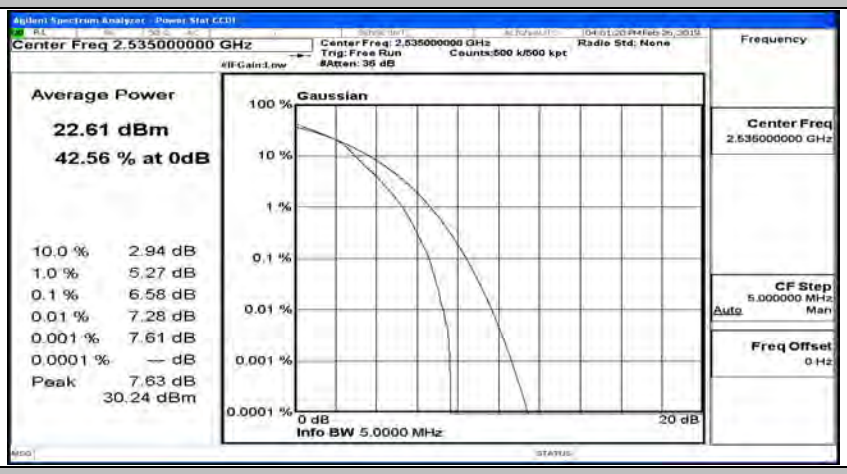
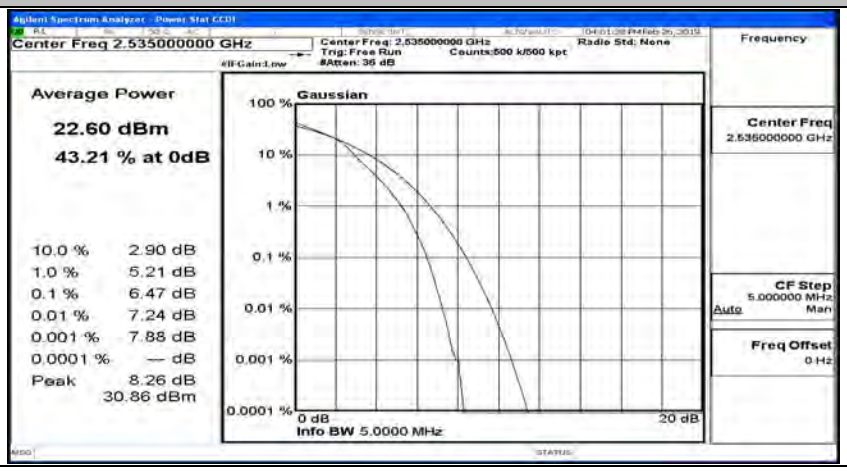


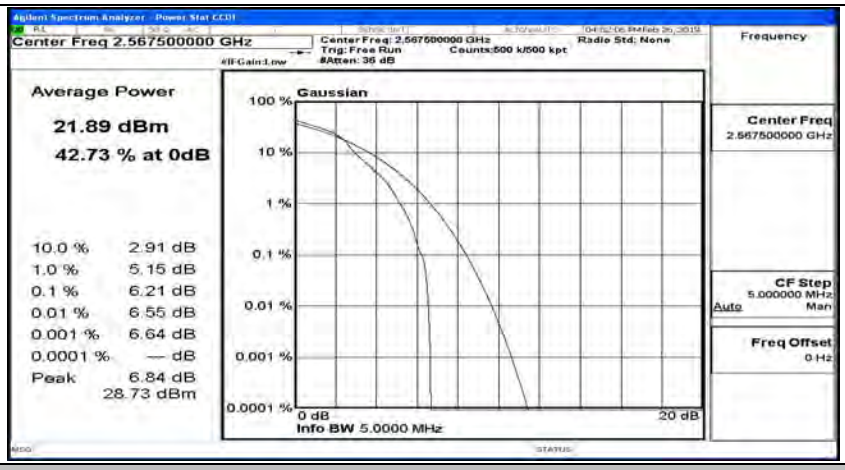
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



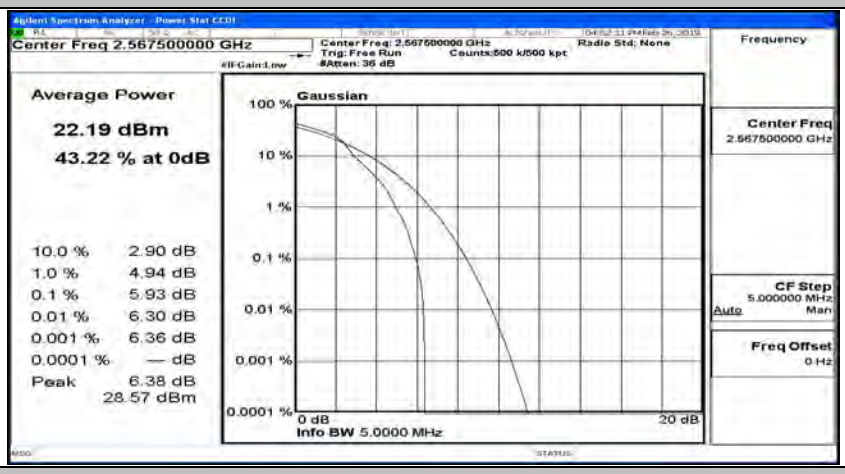
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



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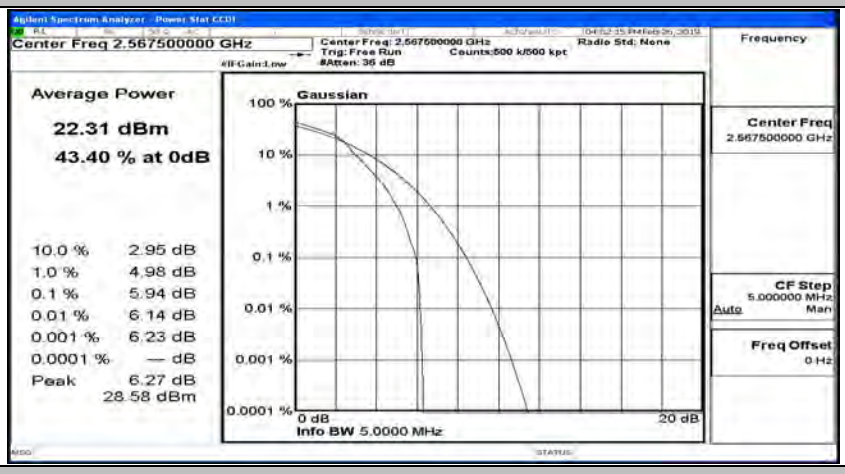
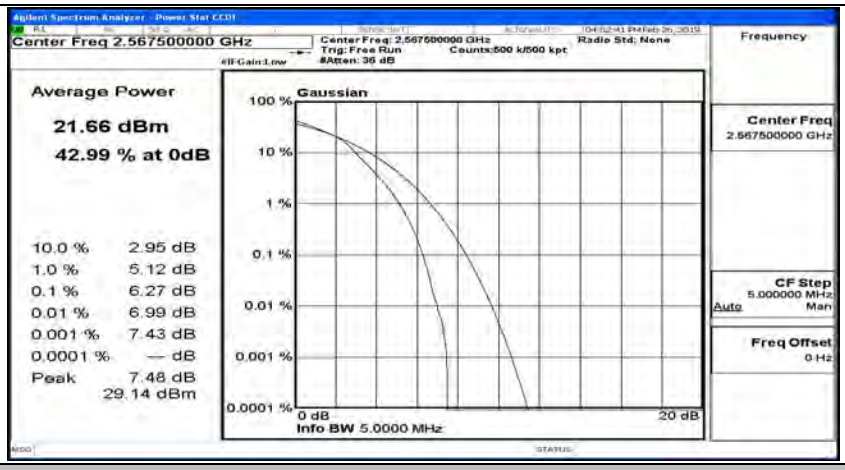
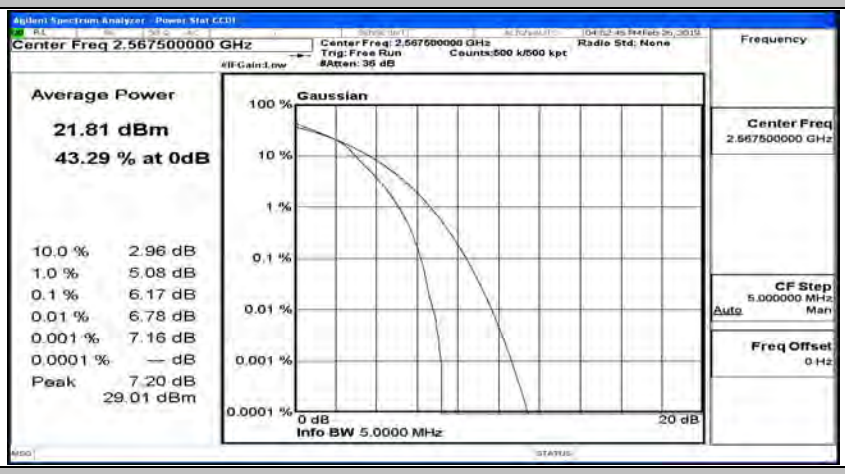


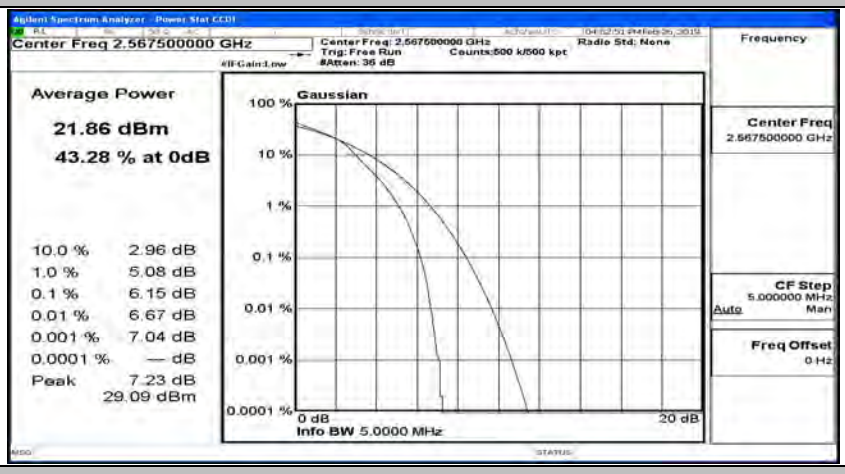
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



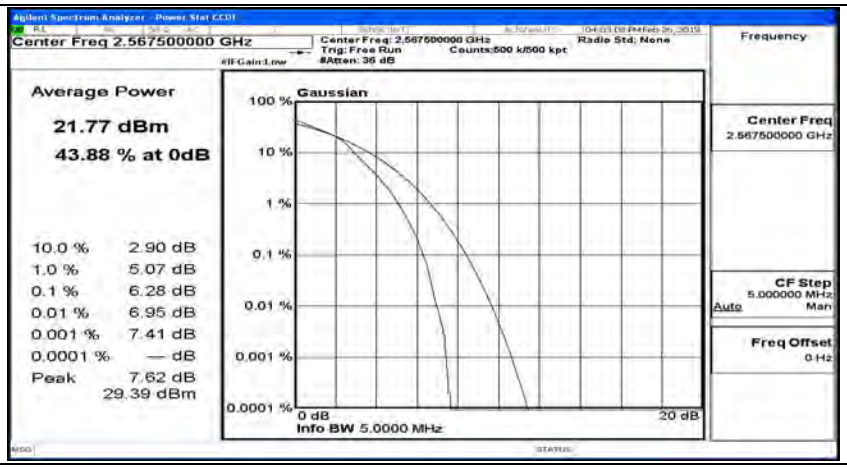
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

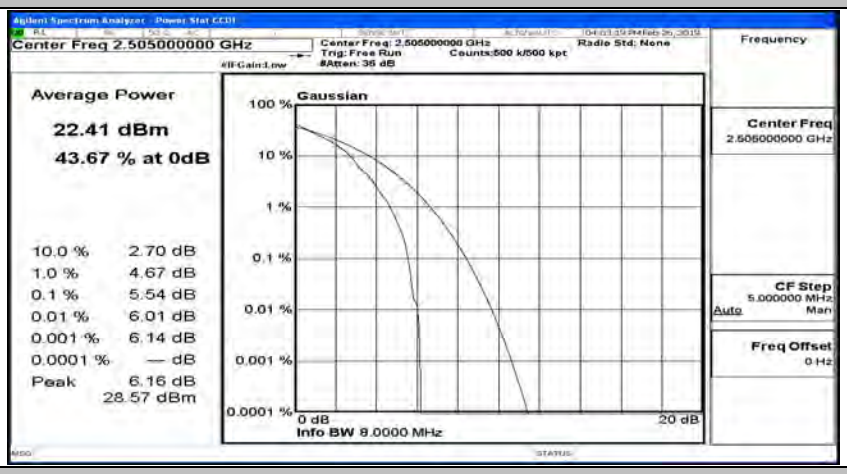


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

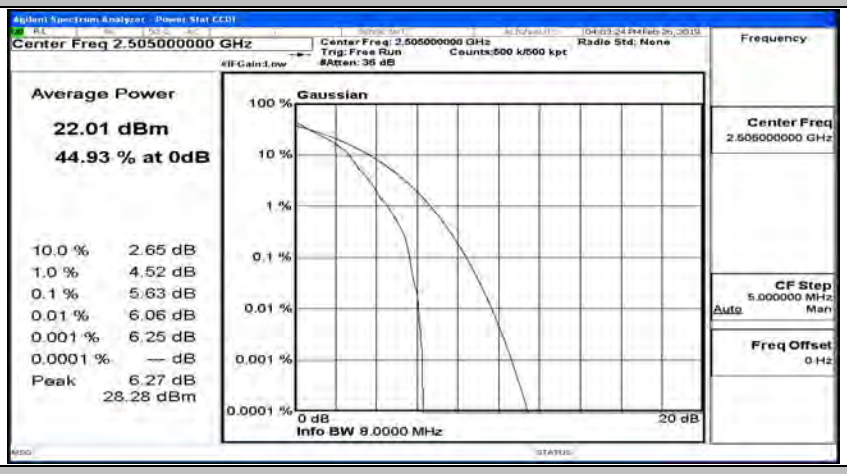


Channel Bandwidth: 10 MHz

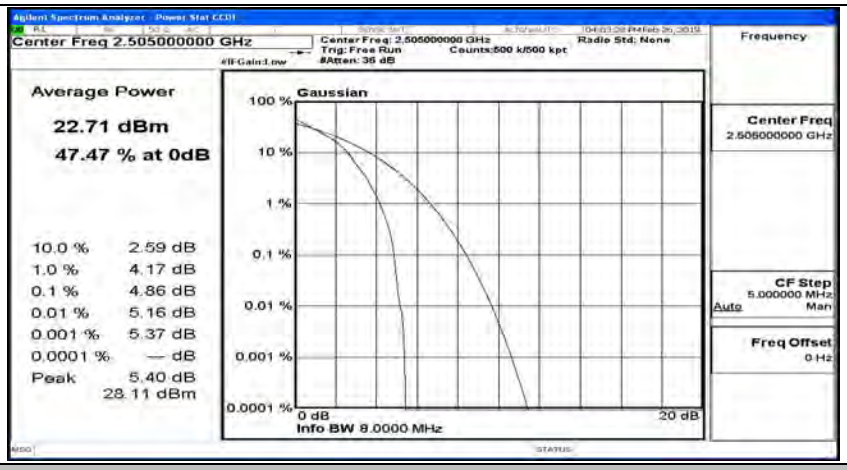
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



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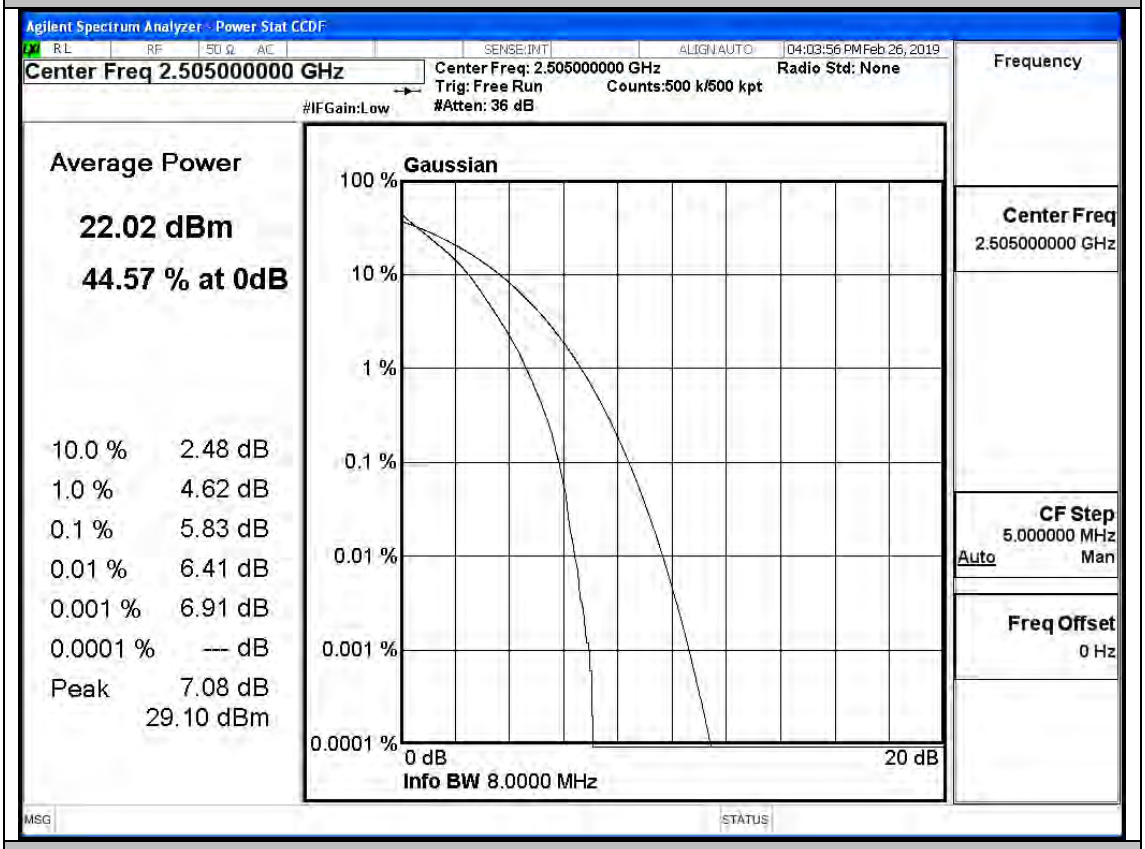
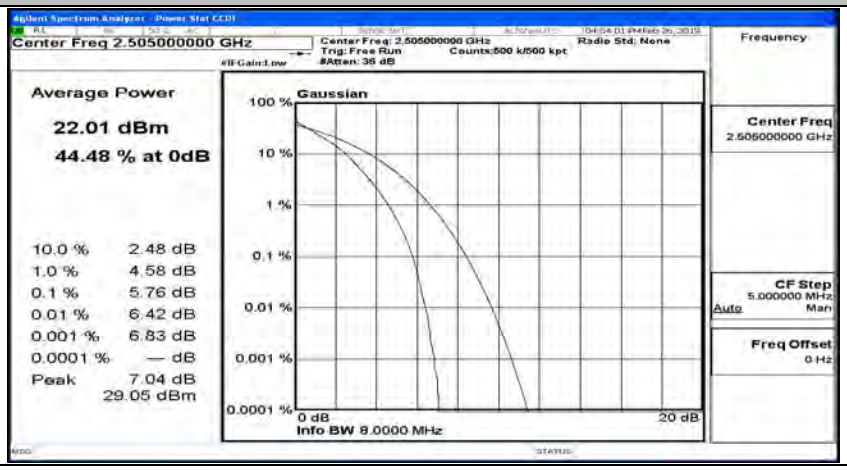
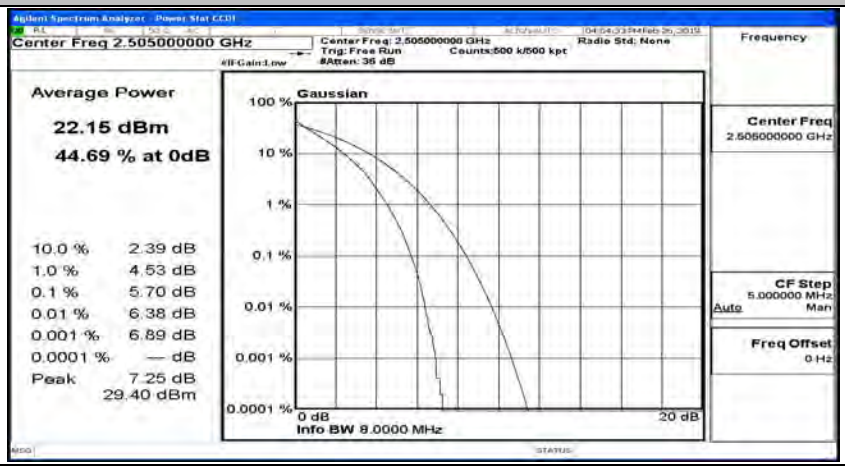


Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



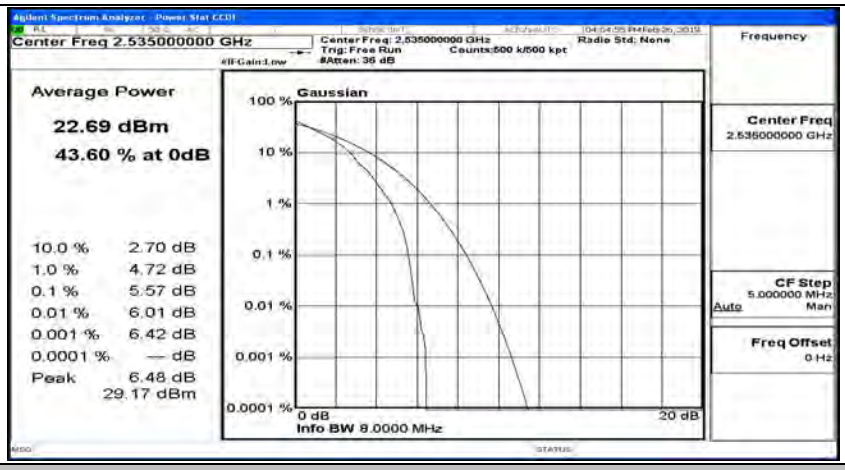
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

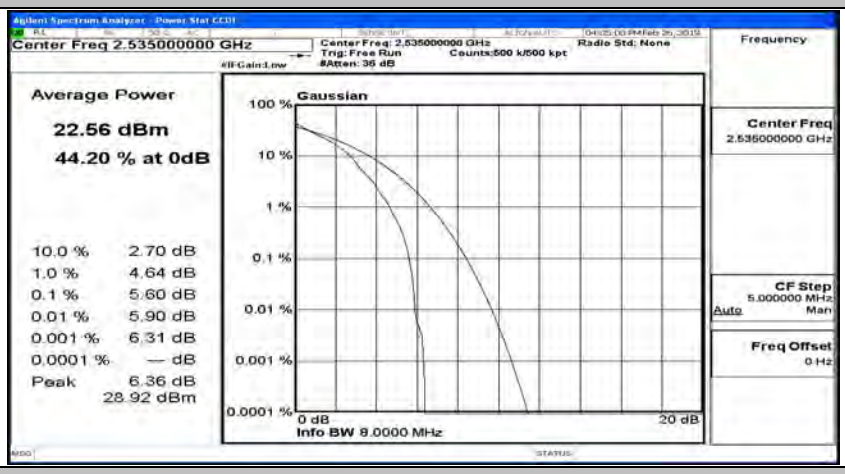


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

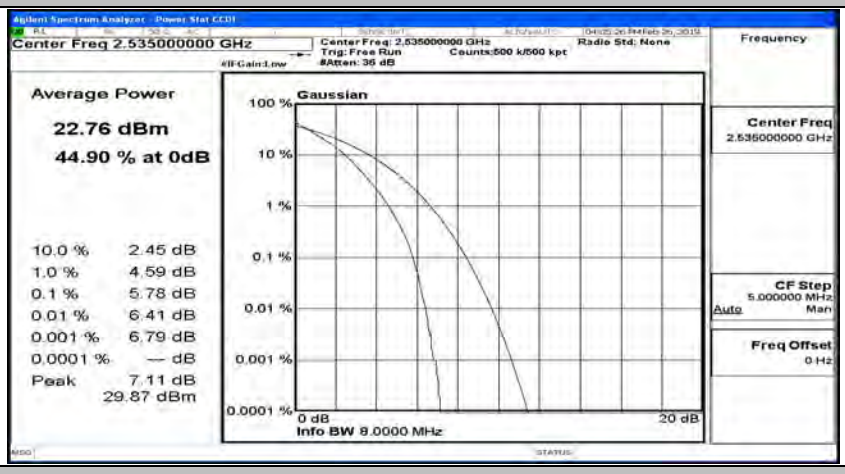
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24



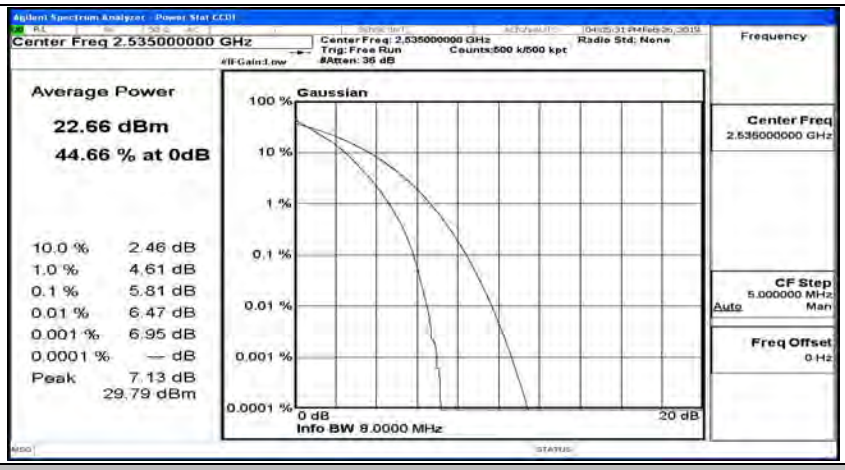
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



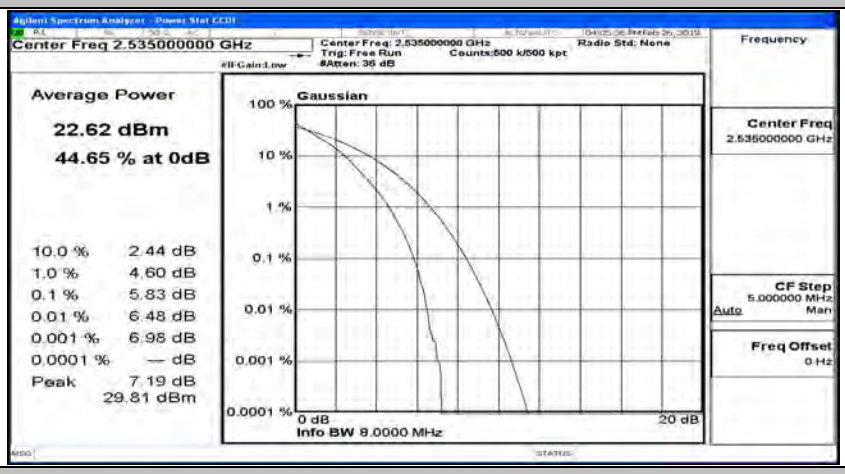
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0



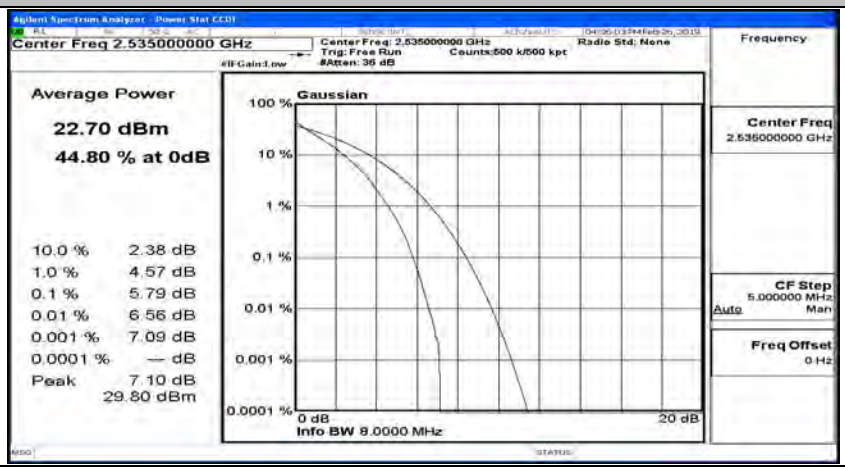
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12



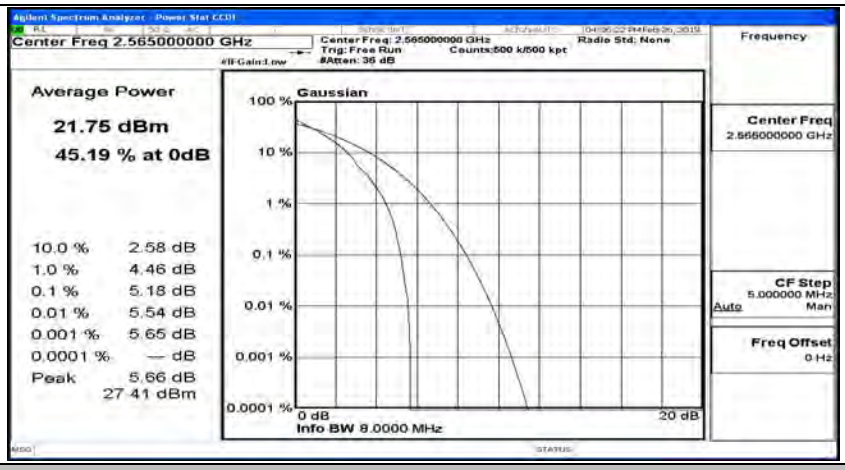
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



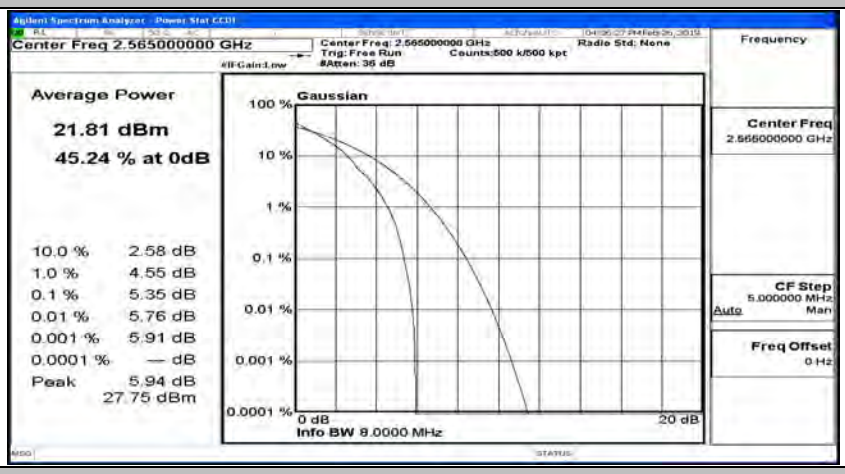
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



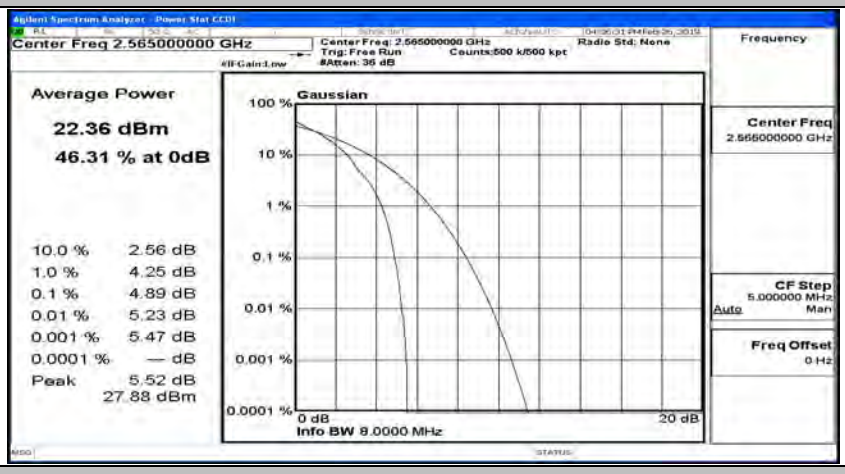
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



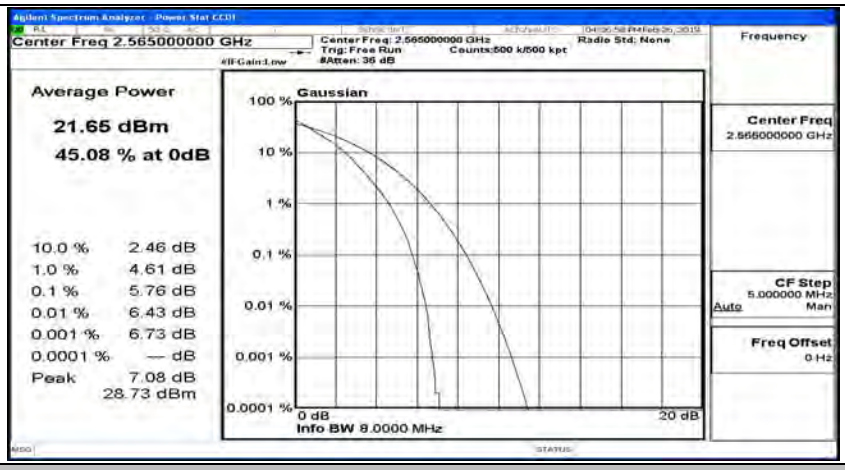
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



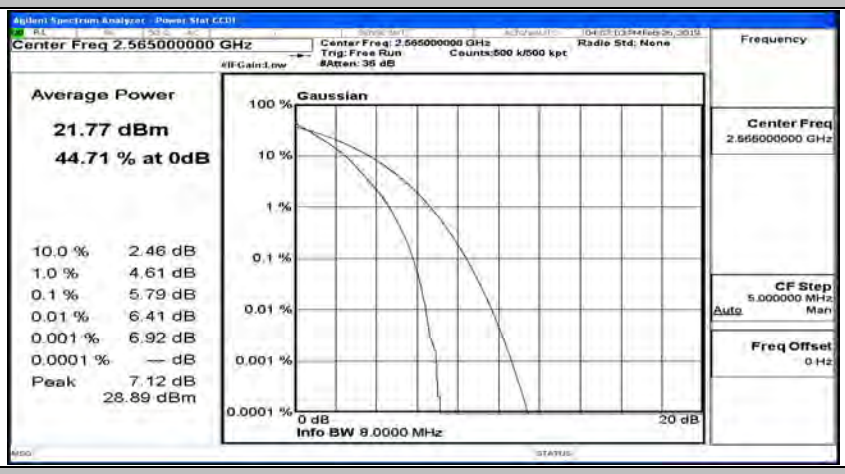
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12



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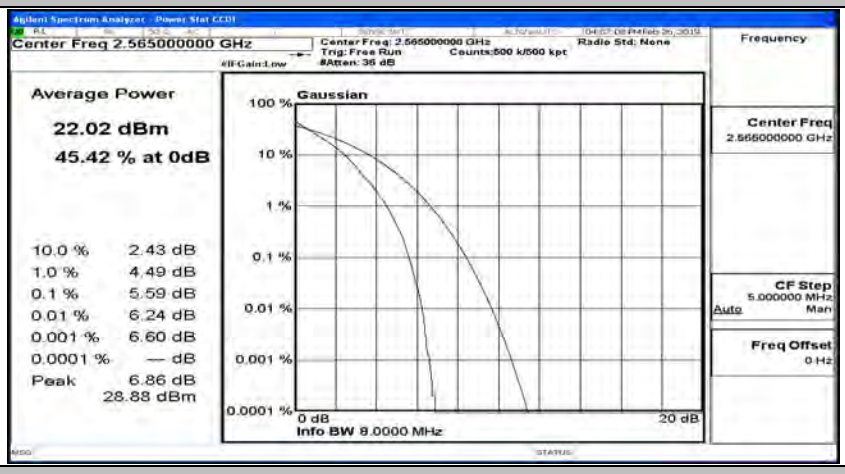
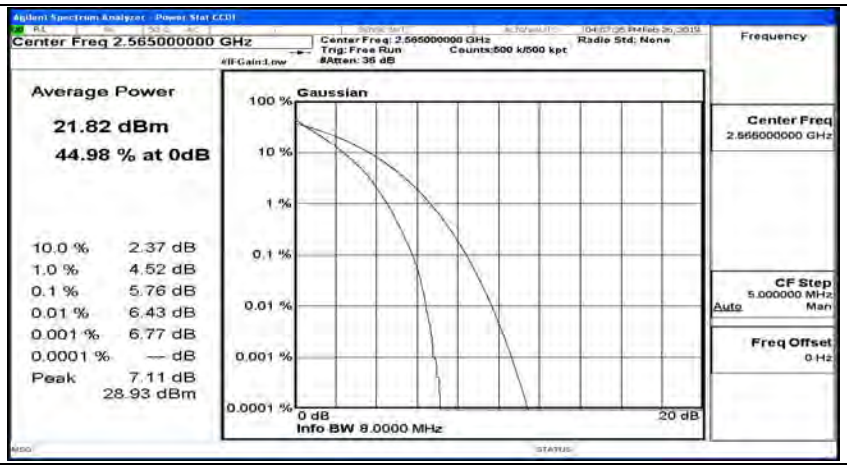
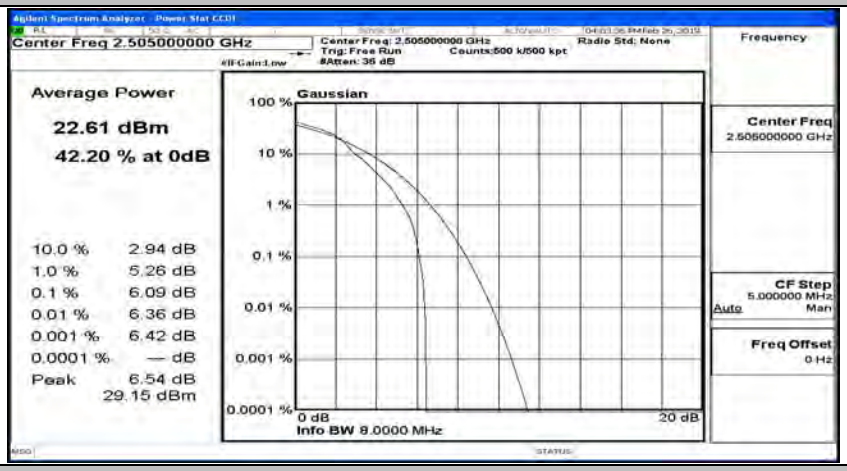


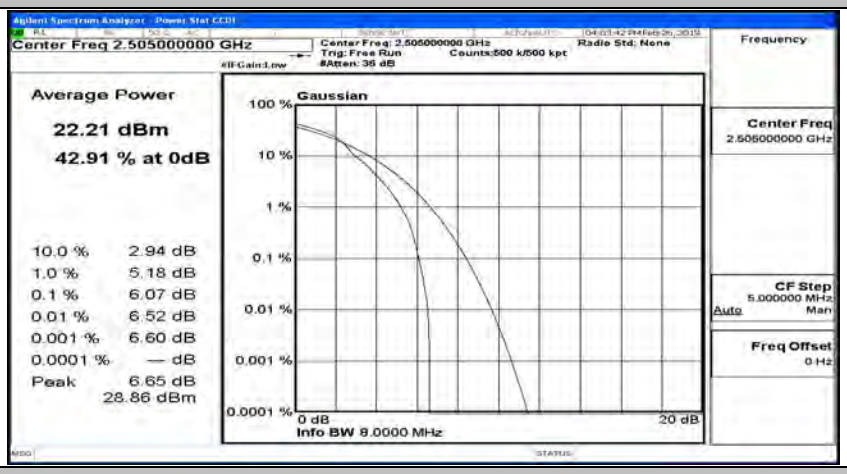
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



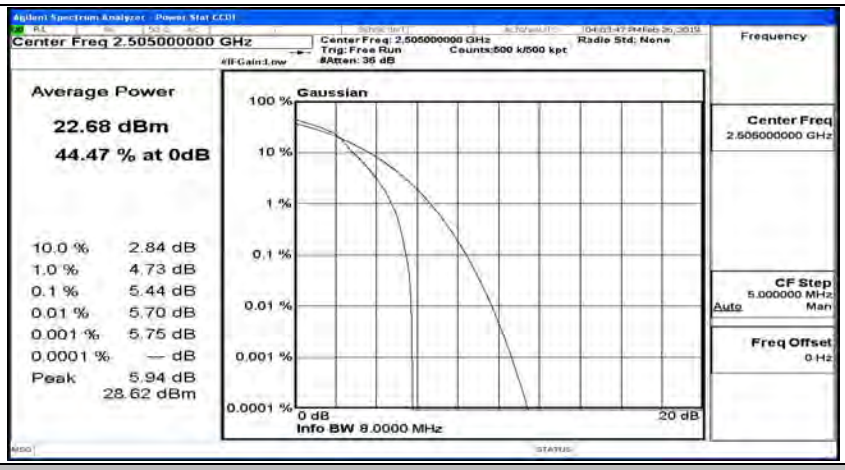
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



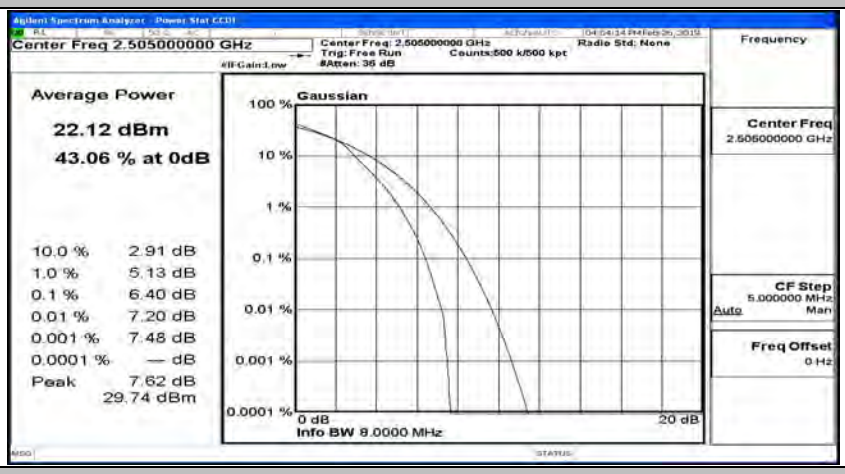
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



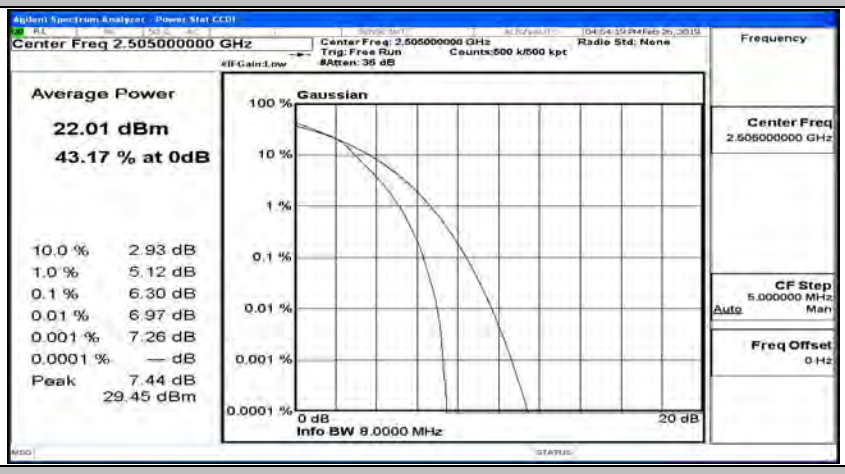
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



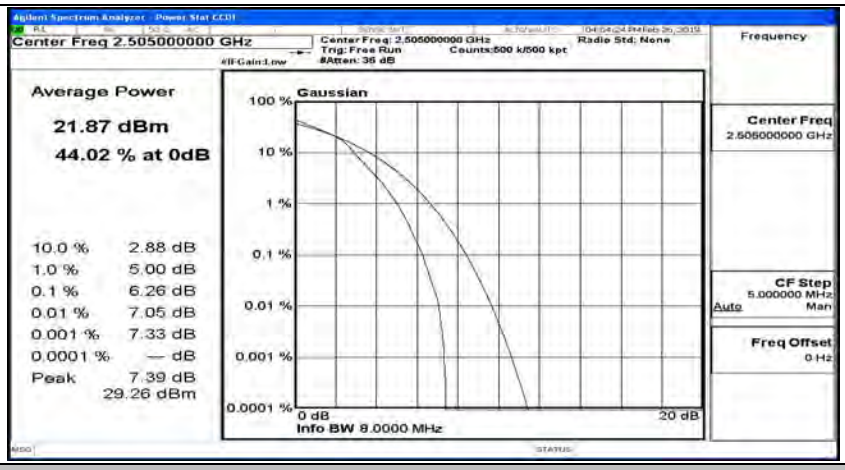
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0



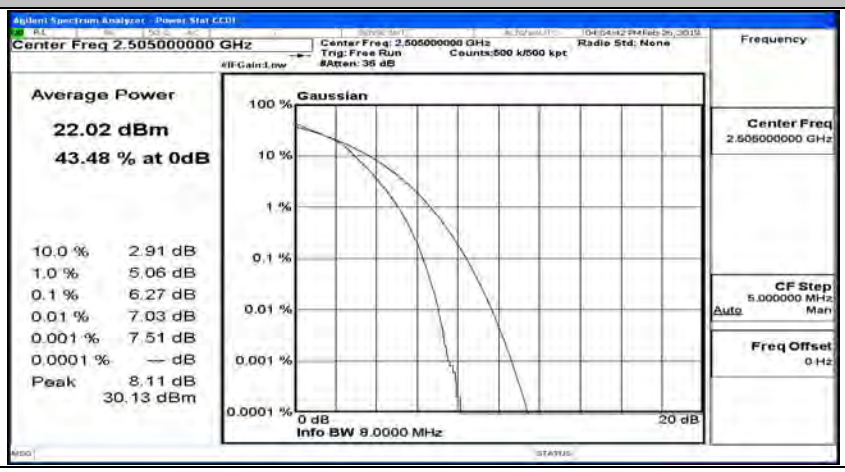
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

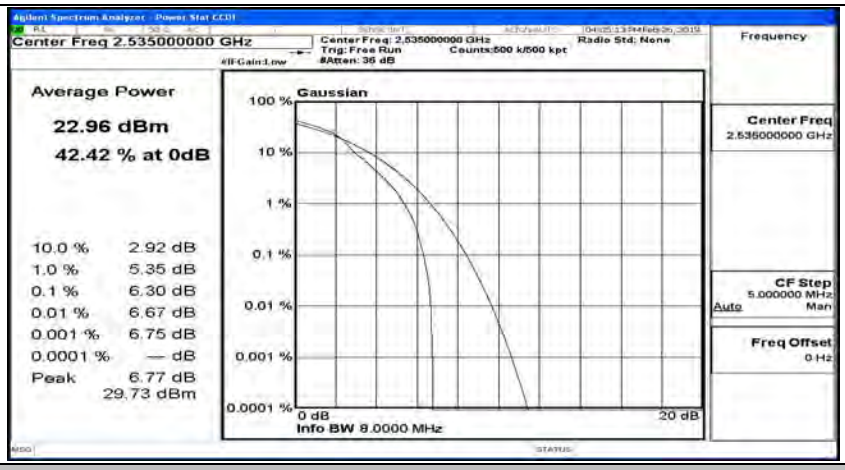


Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

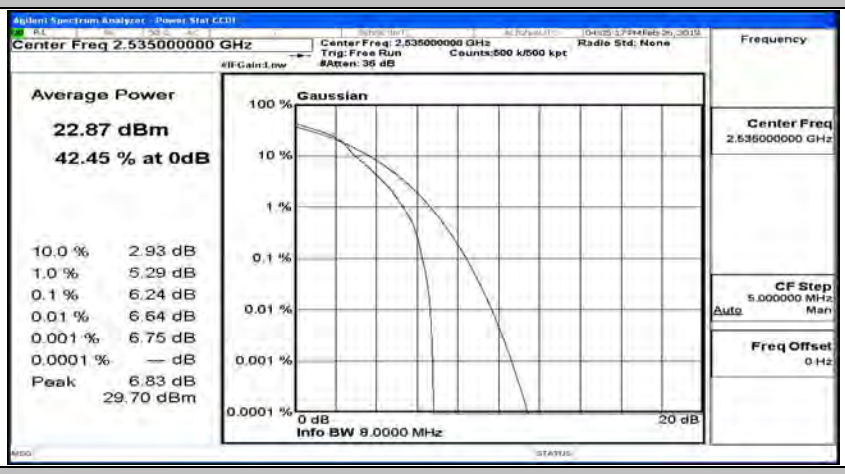


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49



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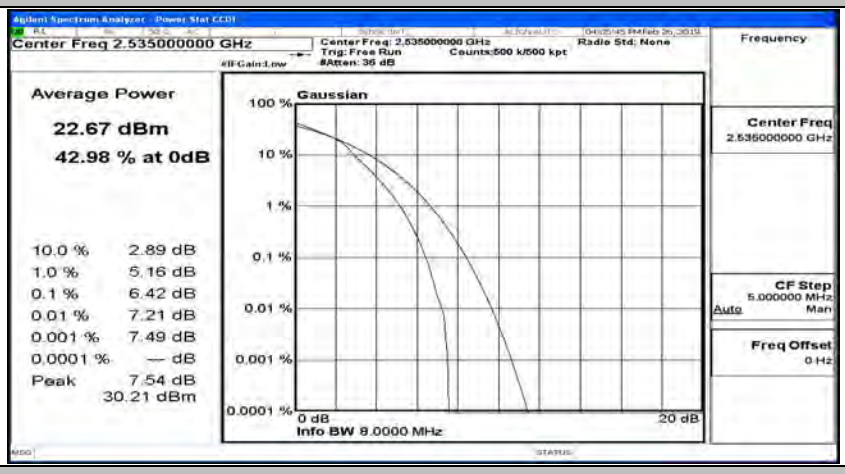
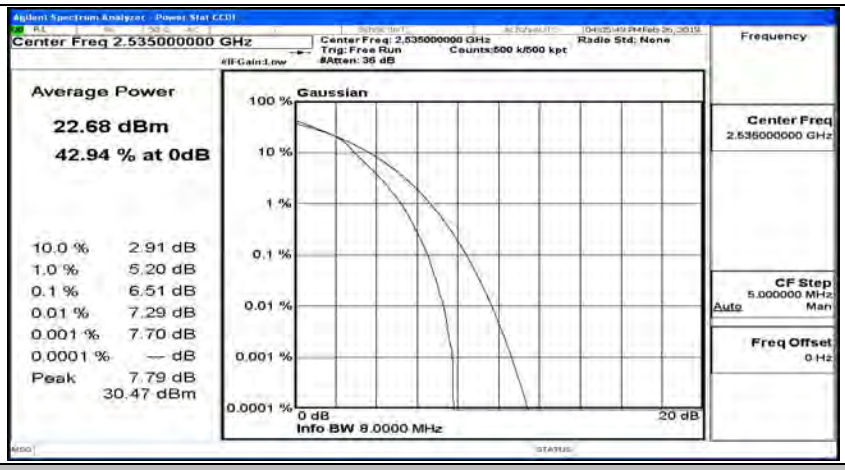
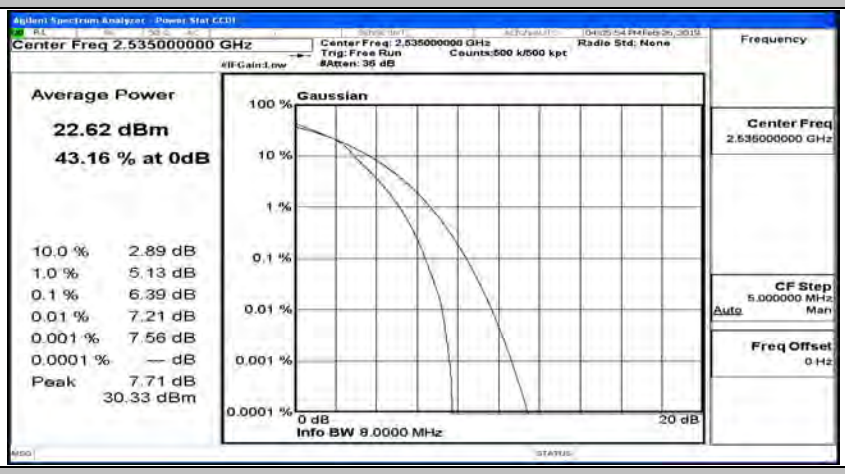


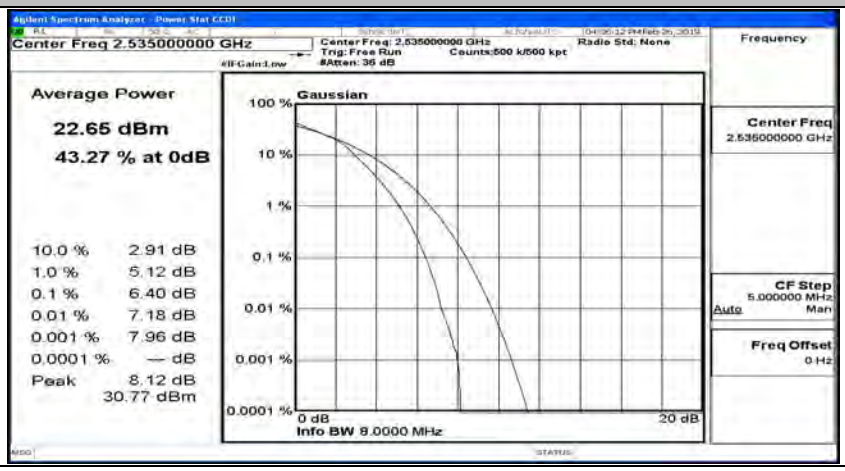
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

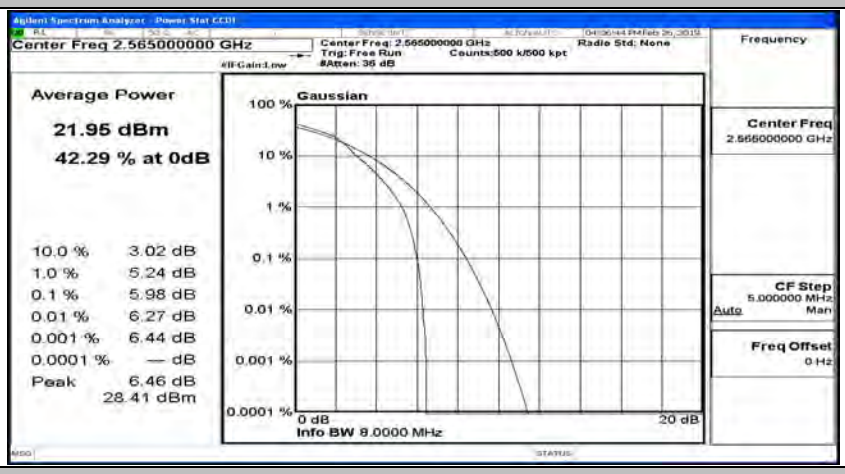


Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

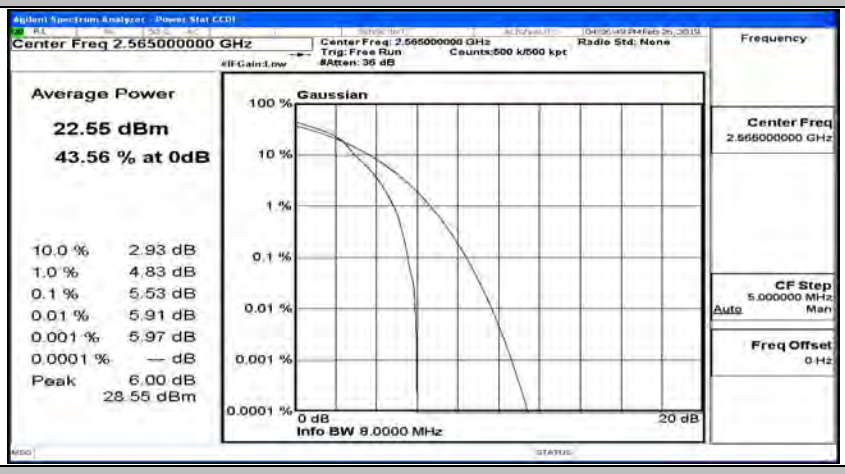


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

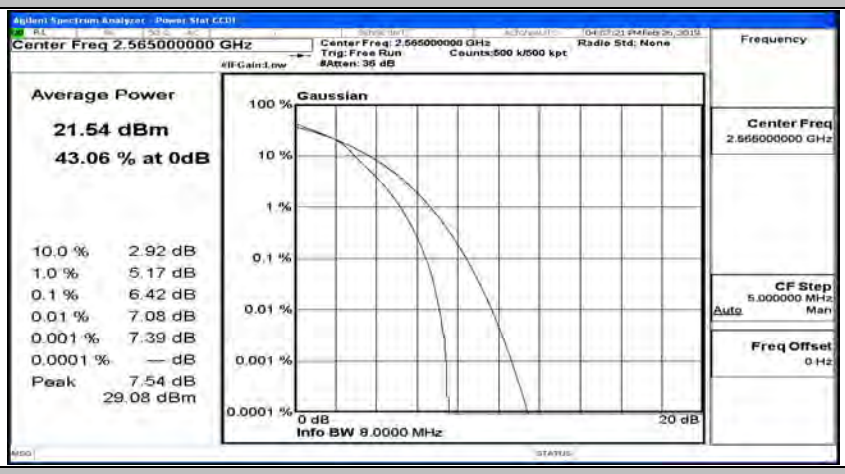


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

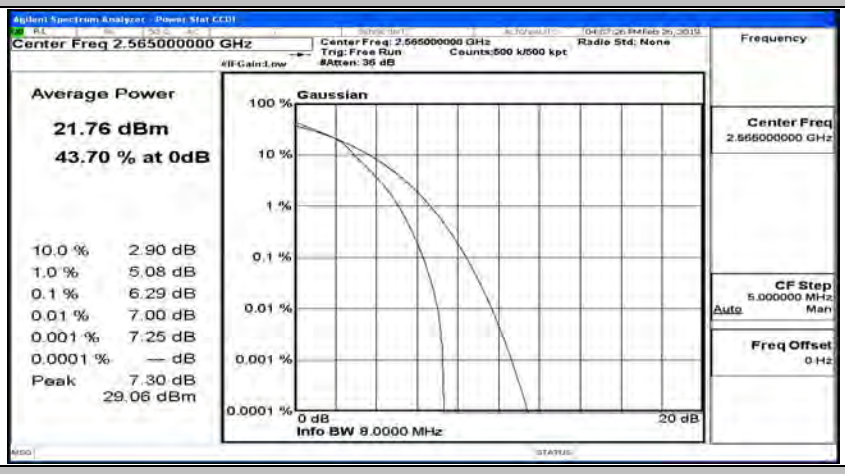


Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

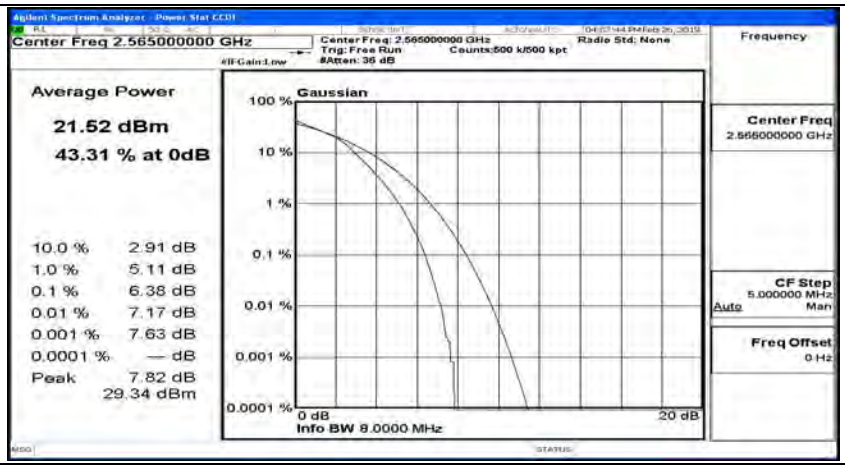
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25



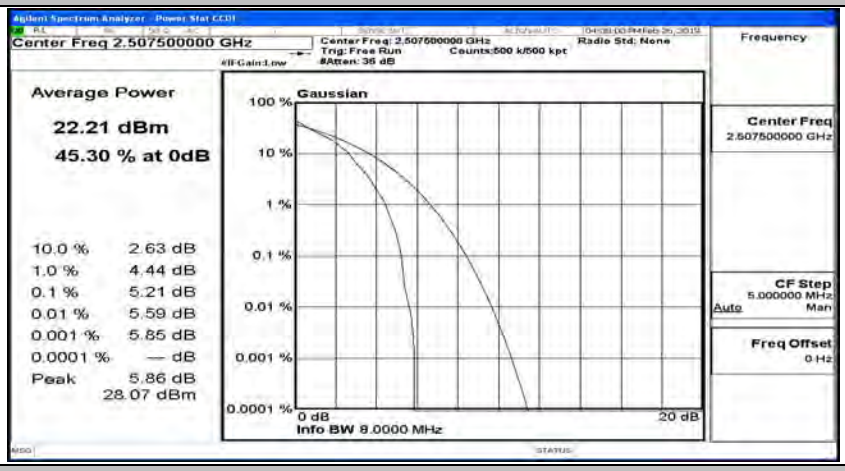
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0



Channel Bandwidth: 15 MHz

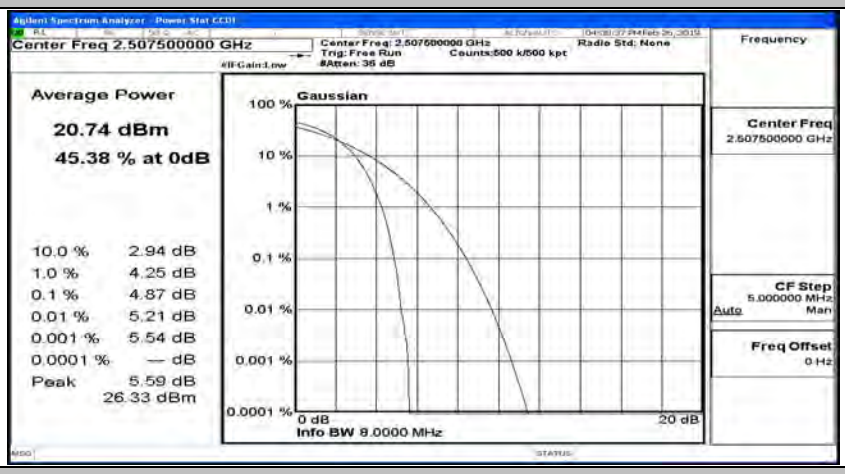
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37

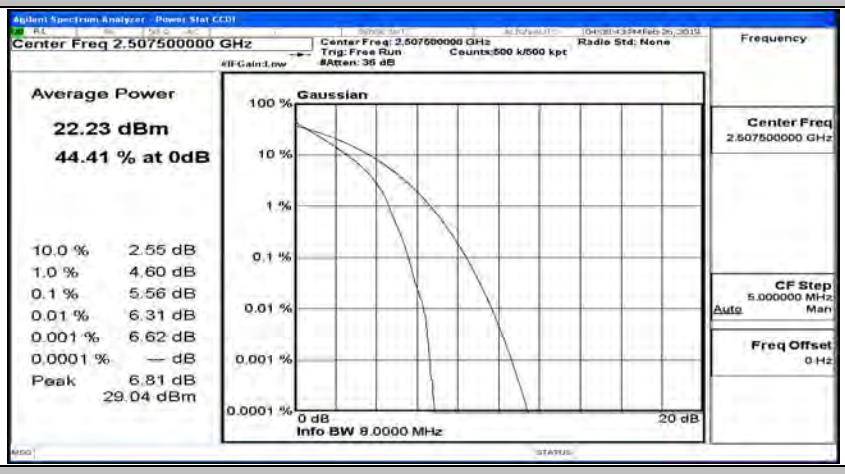


(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74

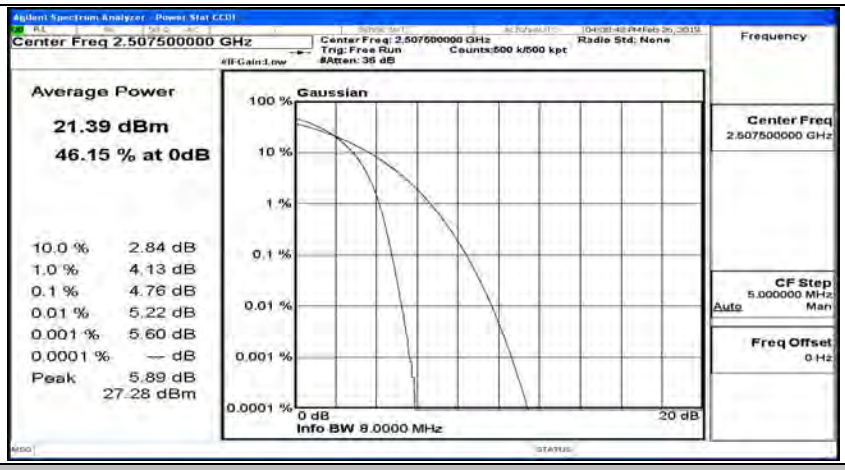
(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#0



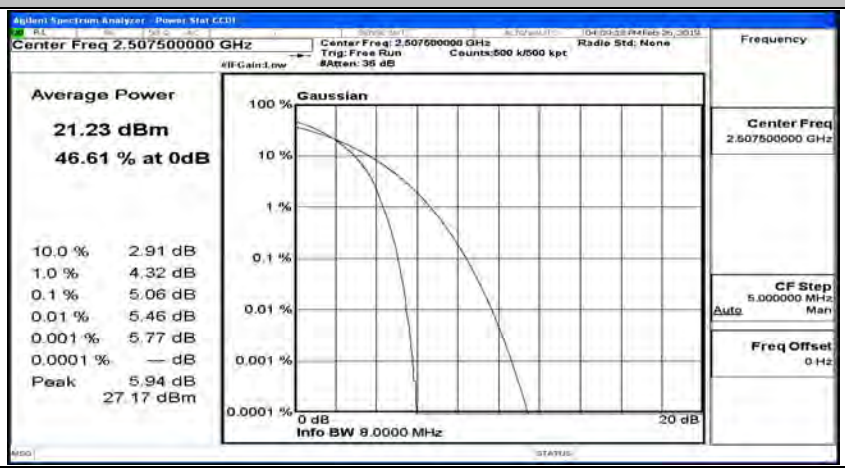
(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#18



(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#38

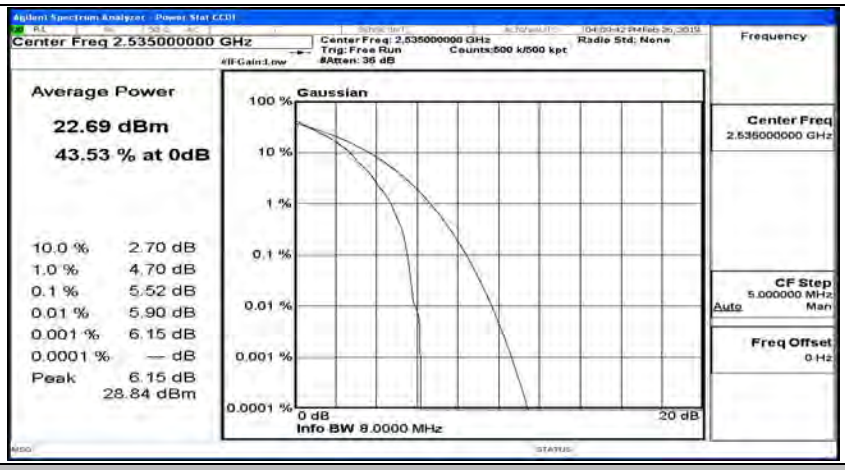


(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0

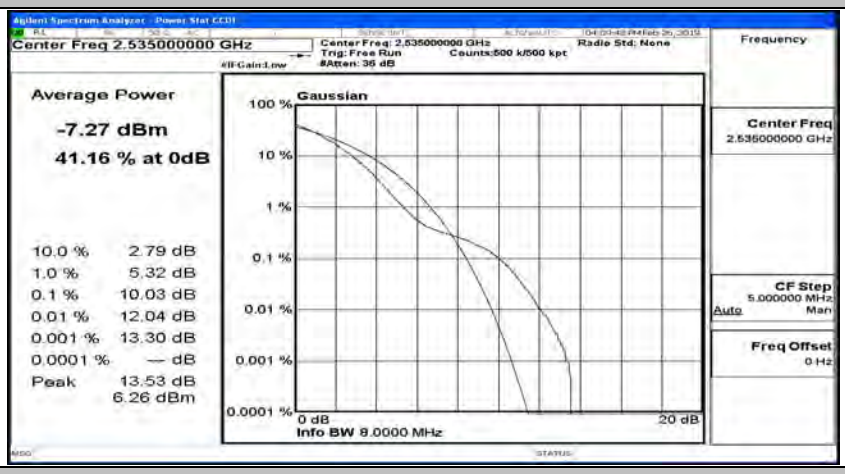


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

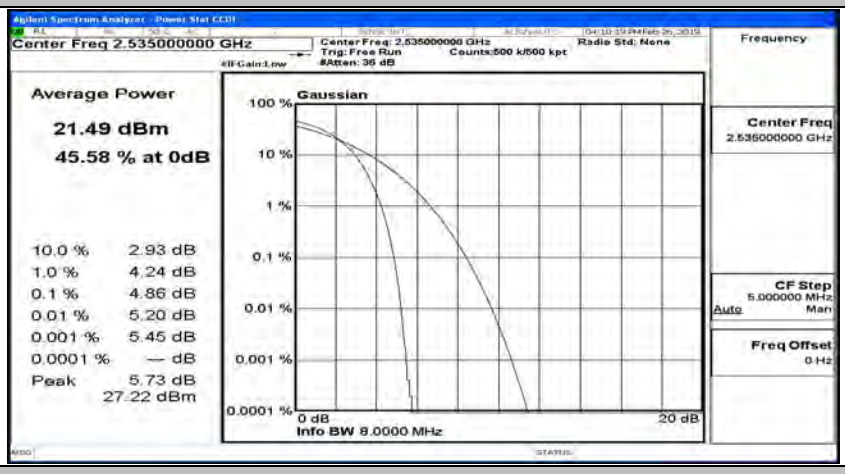
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37



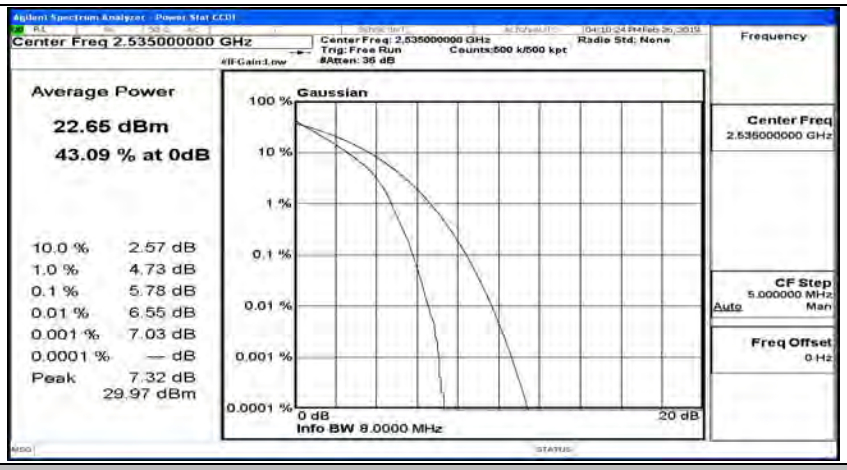
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74



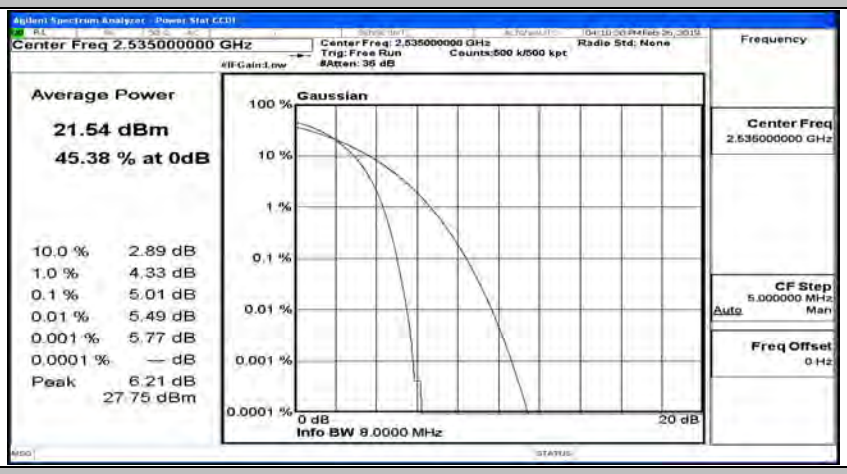
(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#0



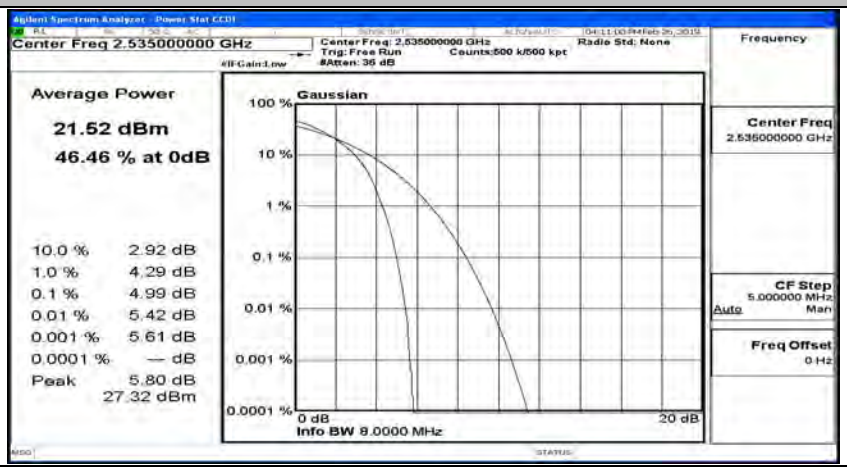
(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#18



(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#38

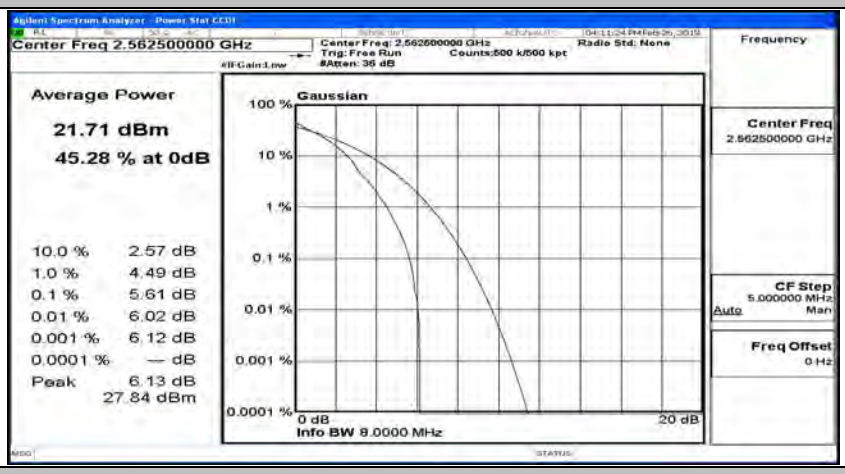


(Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0

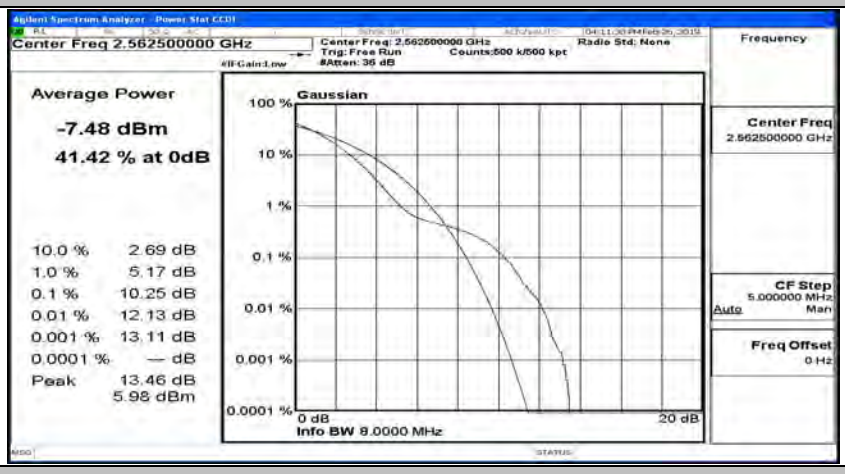


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

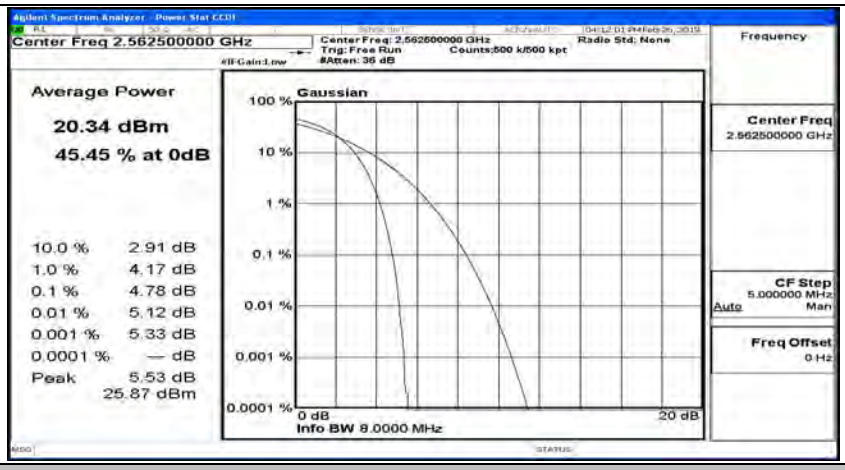
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37



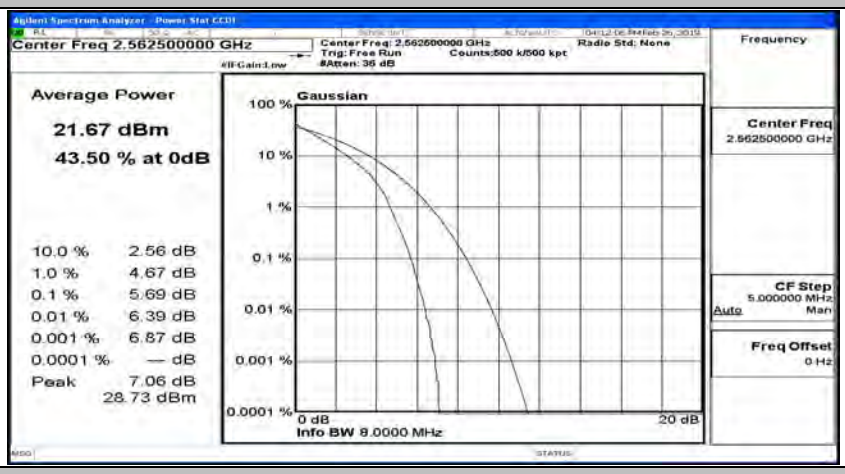
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74



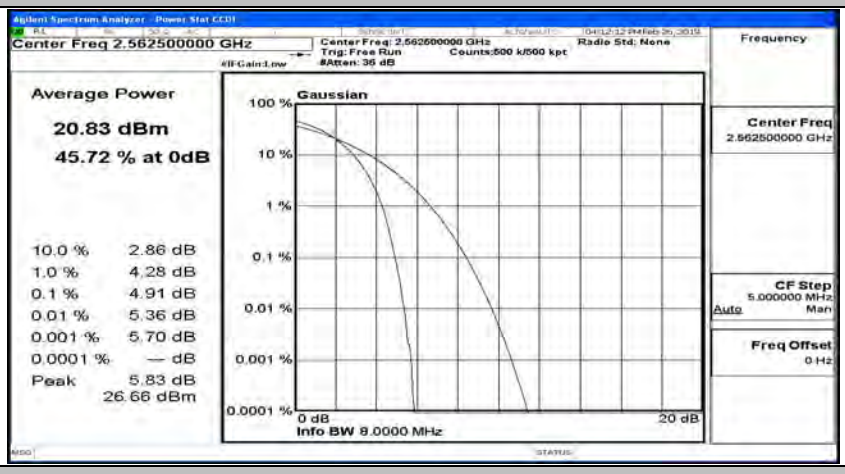
(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#0



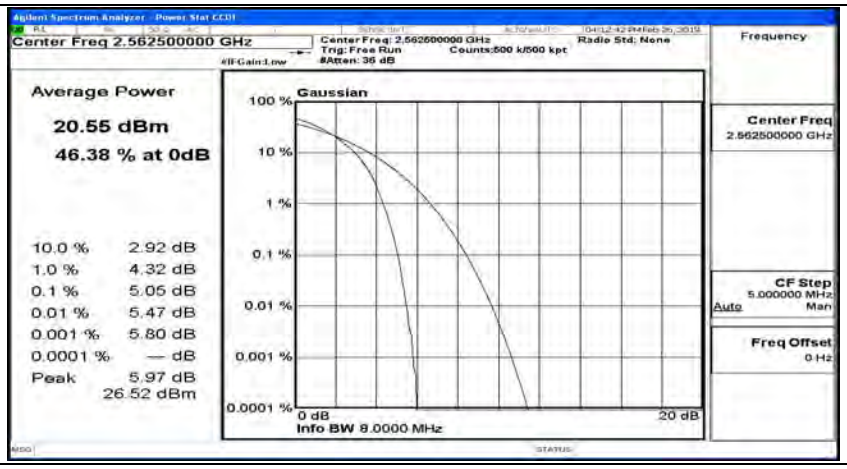
(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#18



(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#38

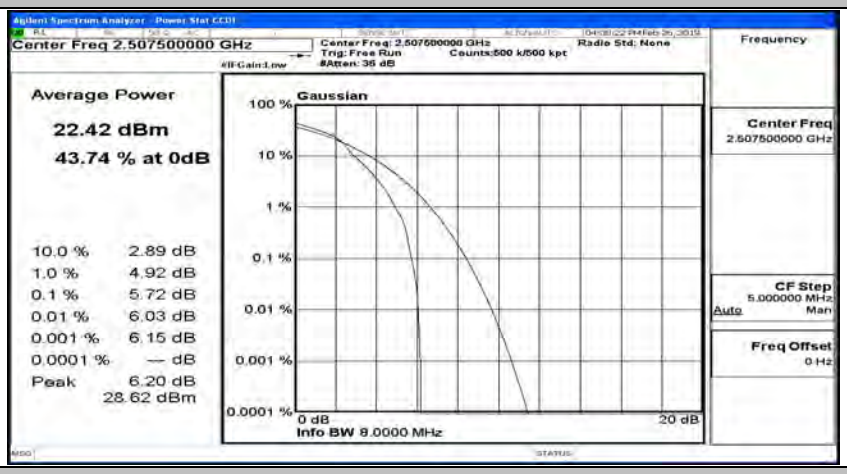


(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0

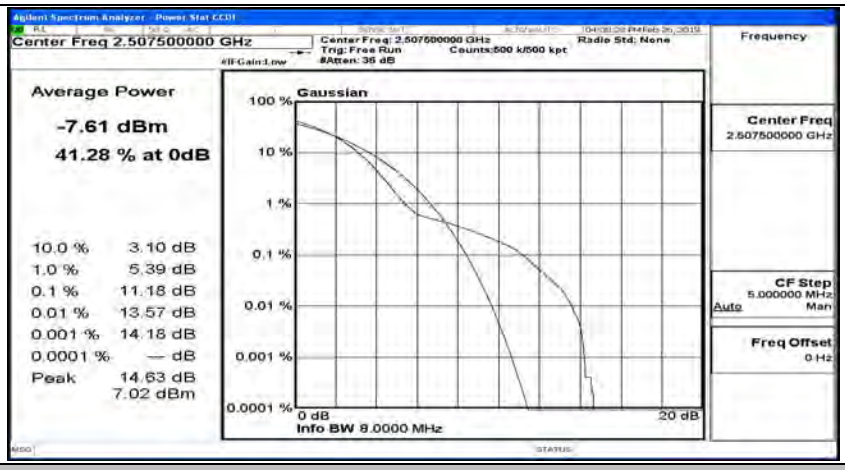


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

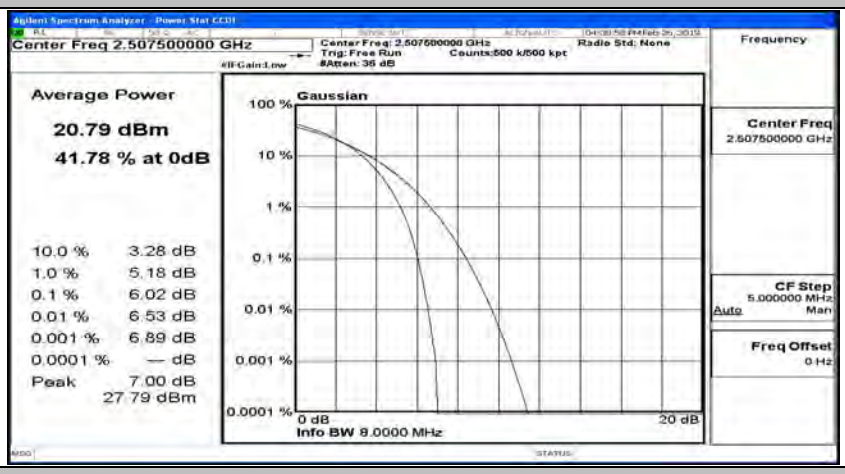
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37



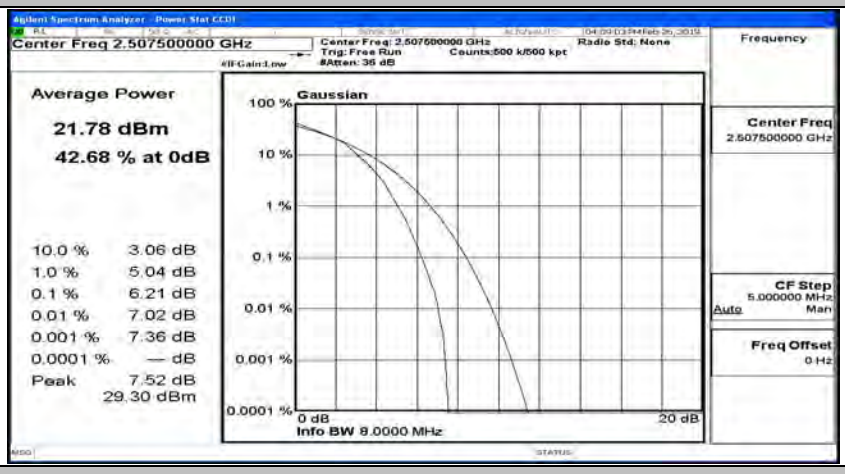
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74



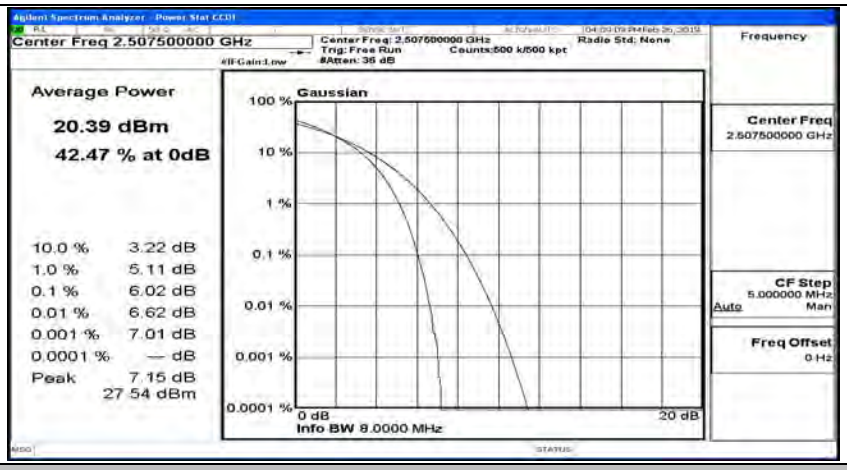
(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#0



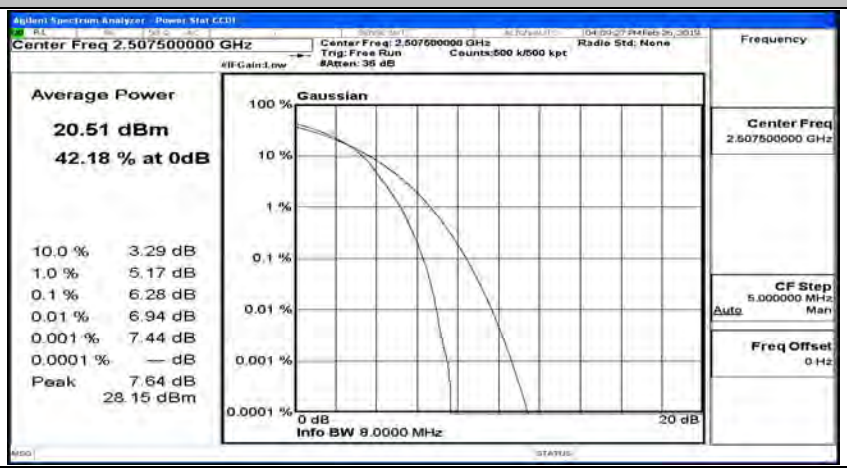
(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#18



(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#38

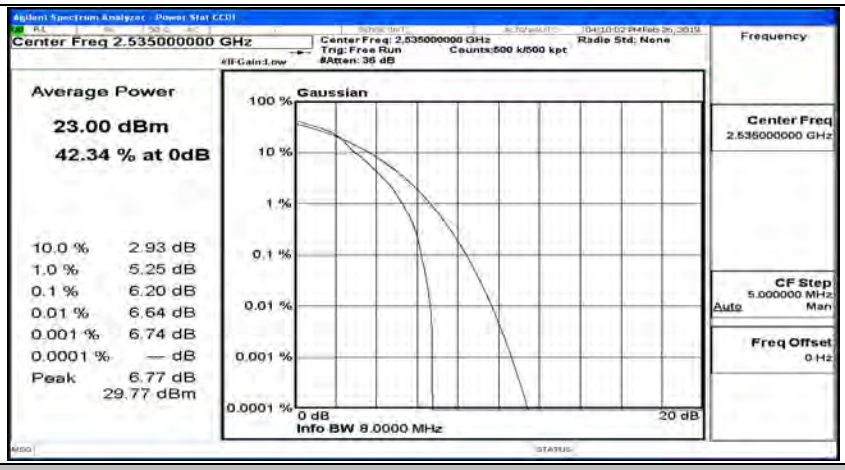


(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0

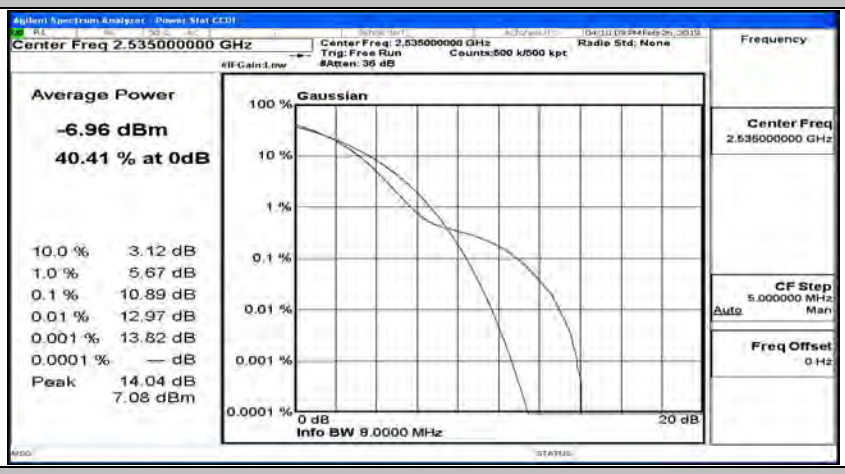


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

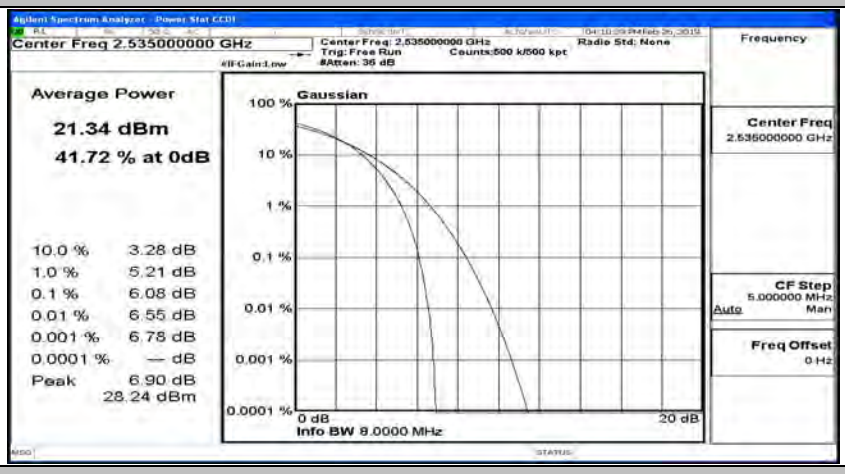
(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37



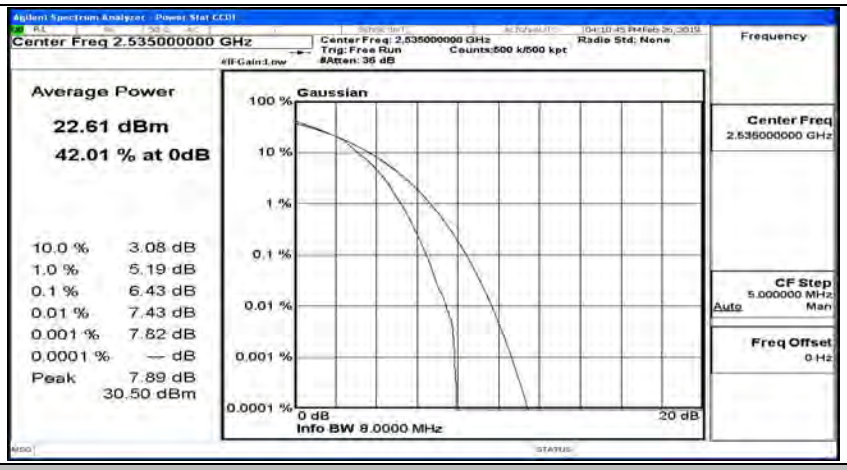
(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74



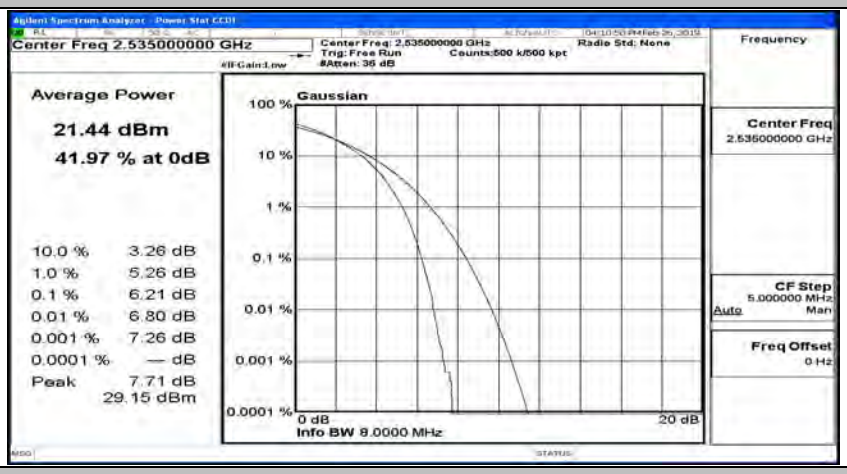
(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#0



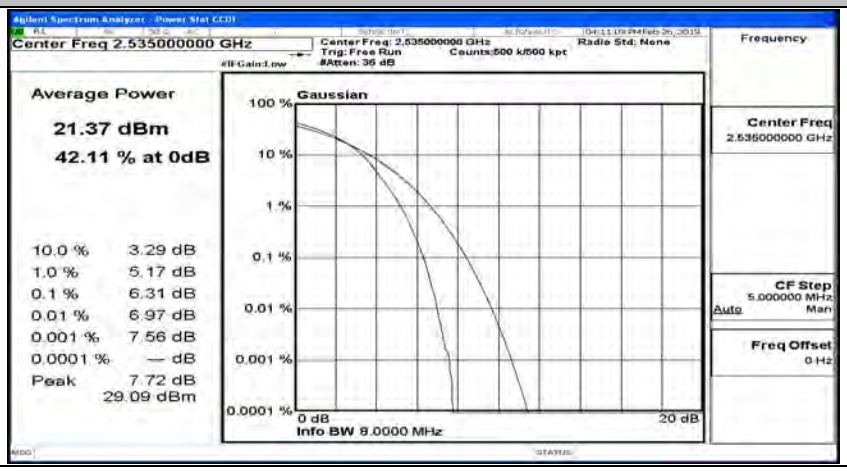
(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#18



(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#38

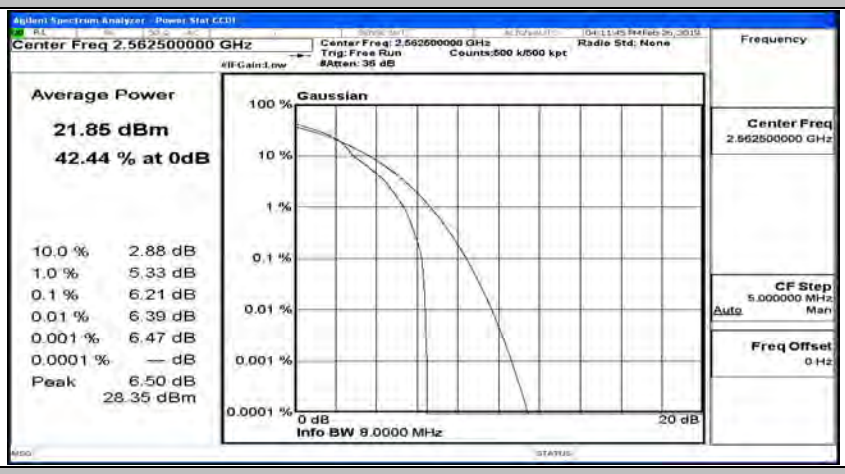


(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0

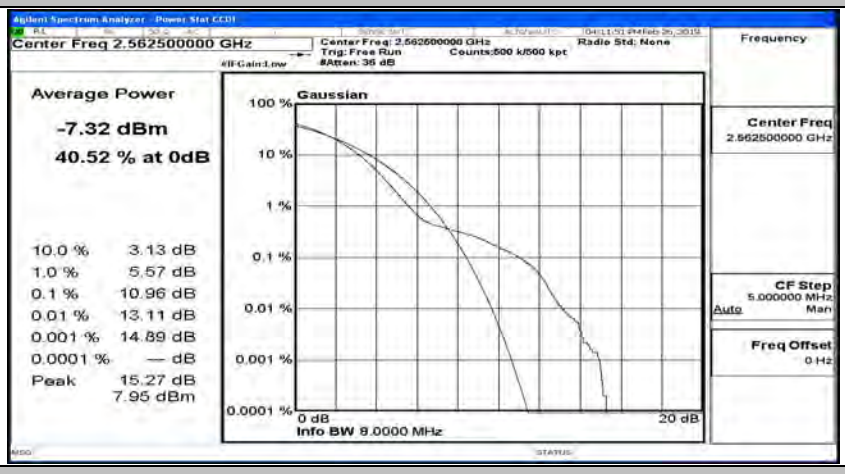


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

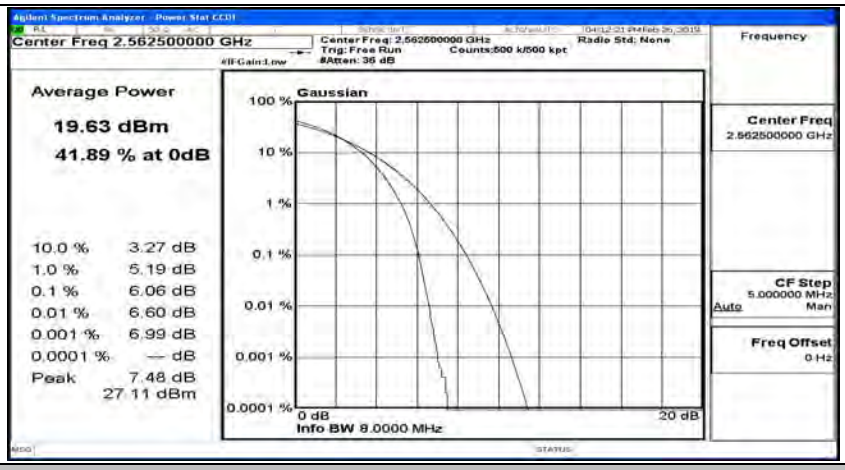
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37



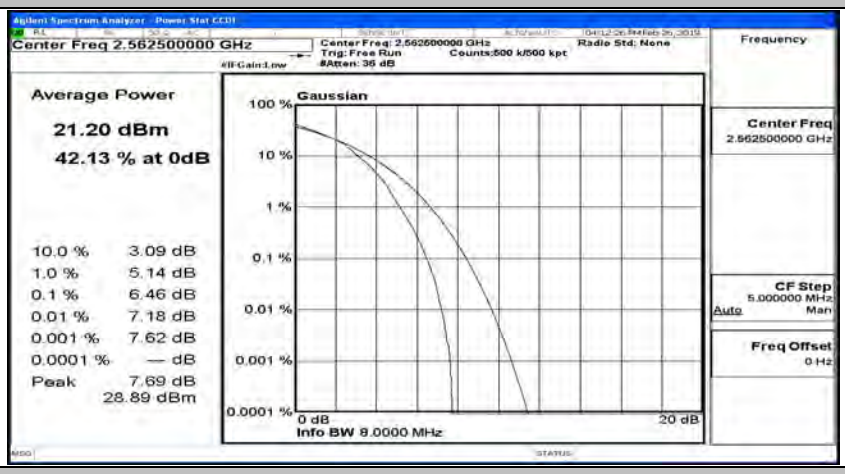
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74



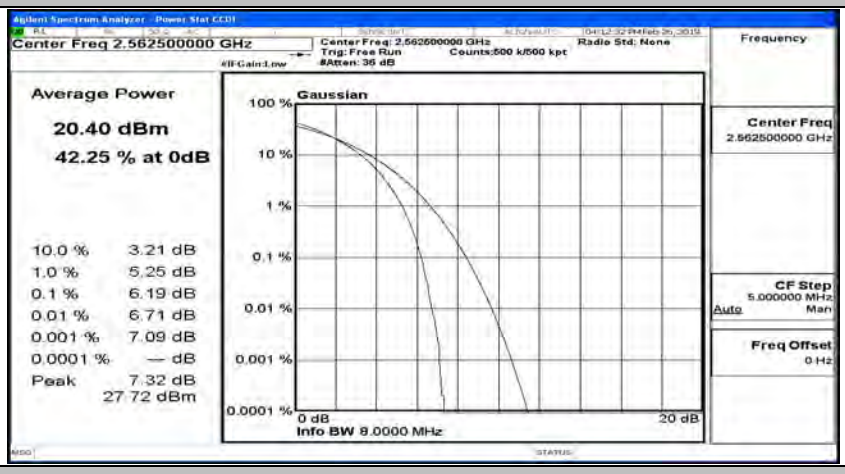
(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#0



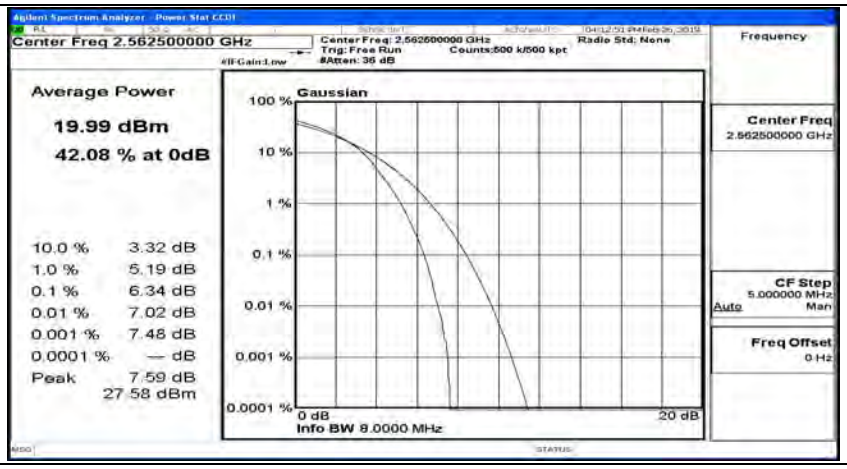
(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#18



(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#38



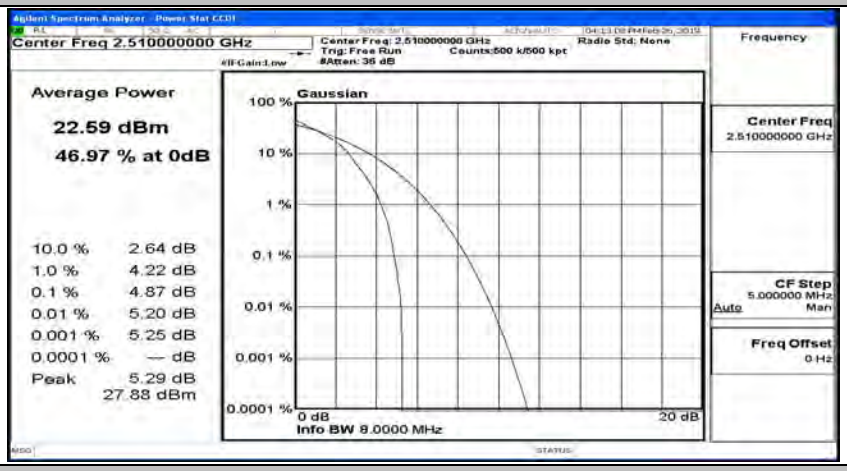
(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0



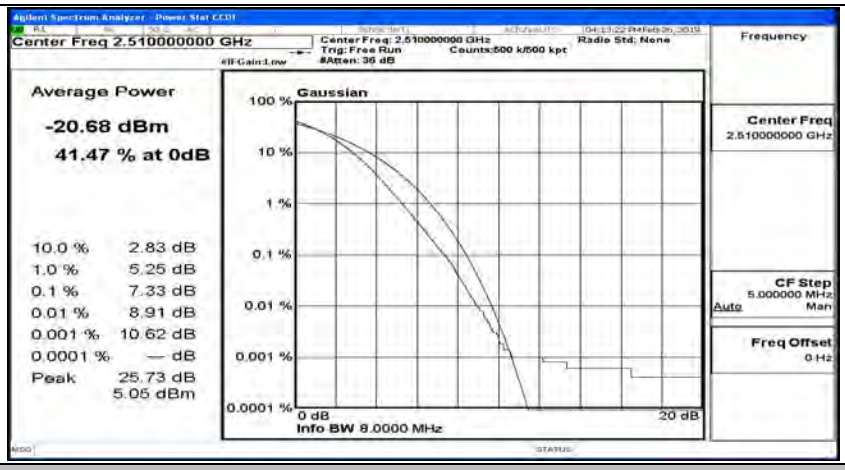
Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0

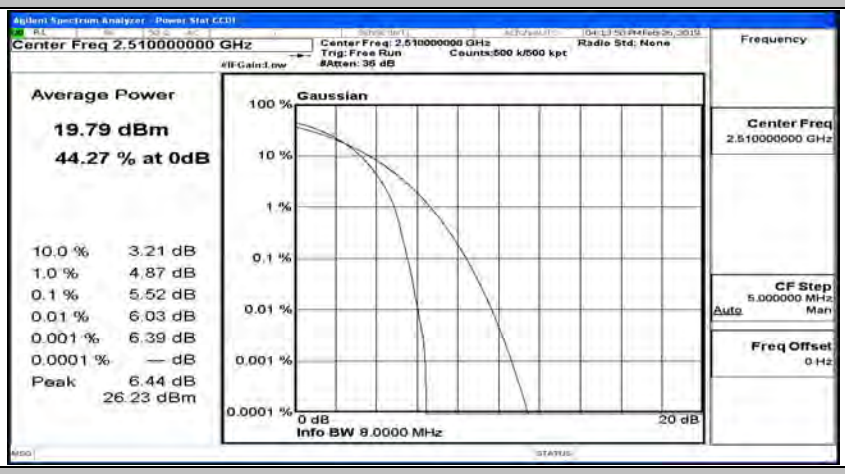
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49



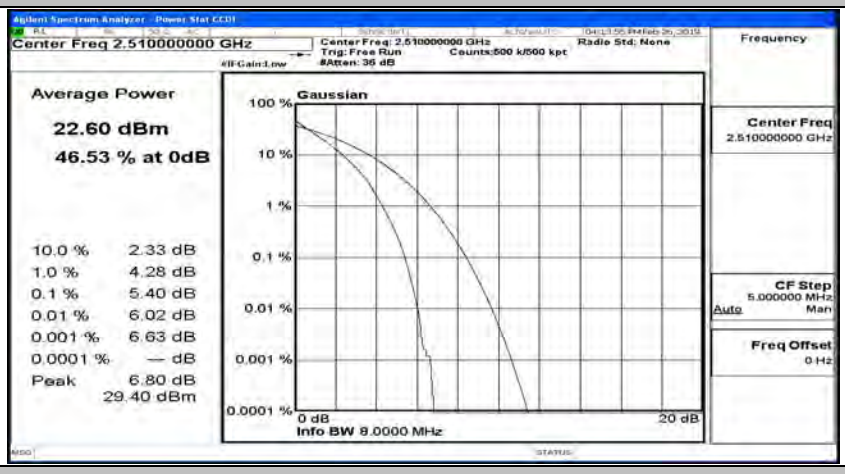
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99



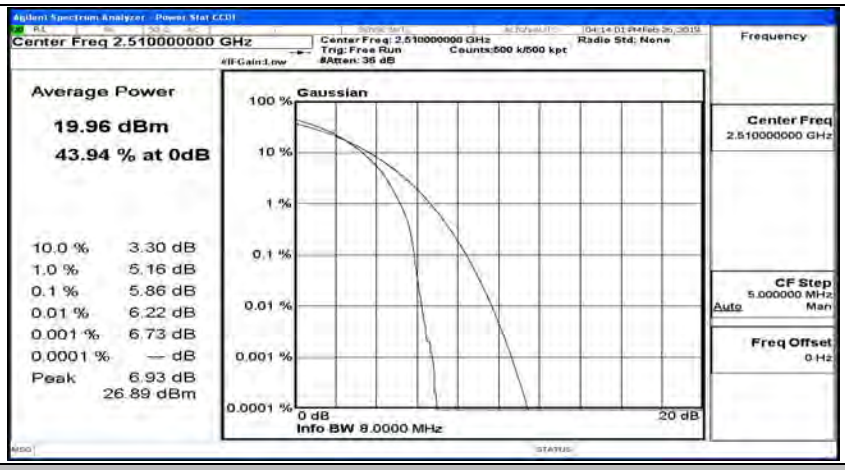
(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#0



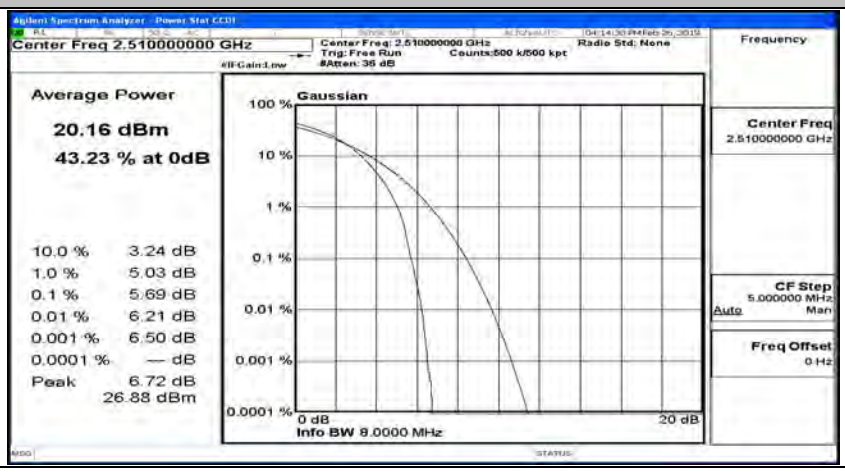
(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#25



(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#50

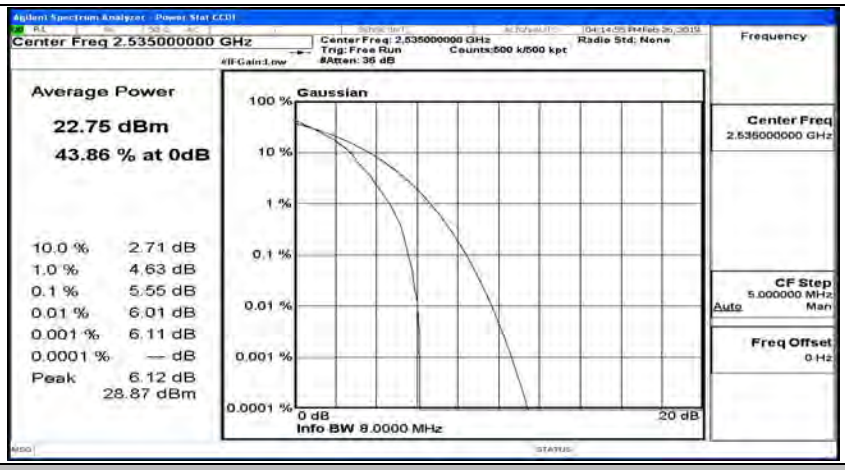


(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0

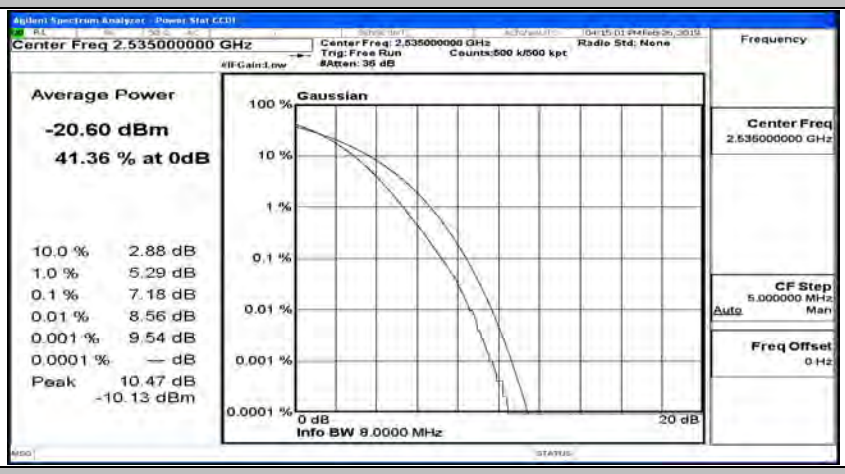


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

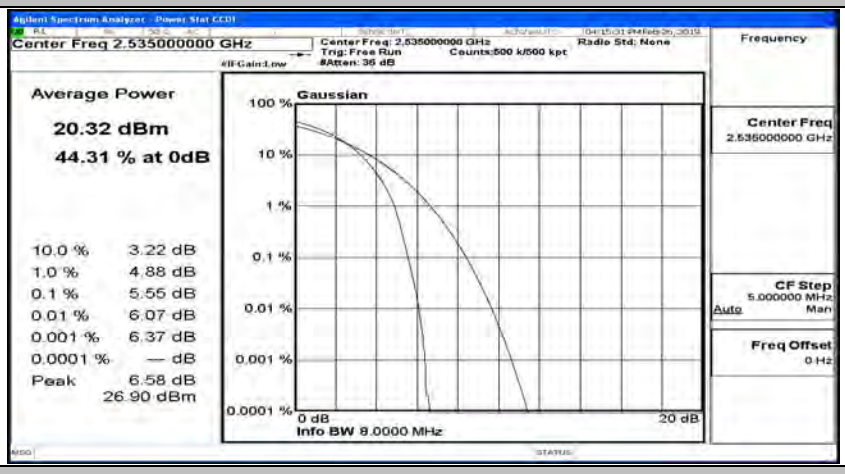
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49



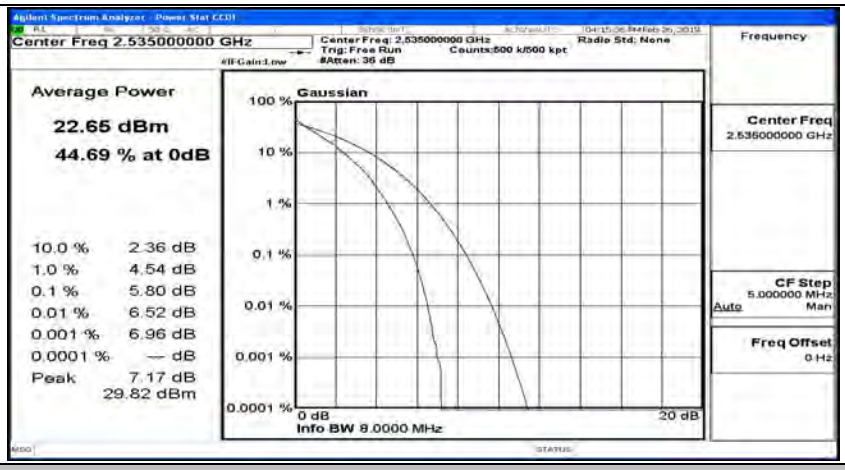
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#99



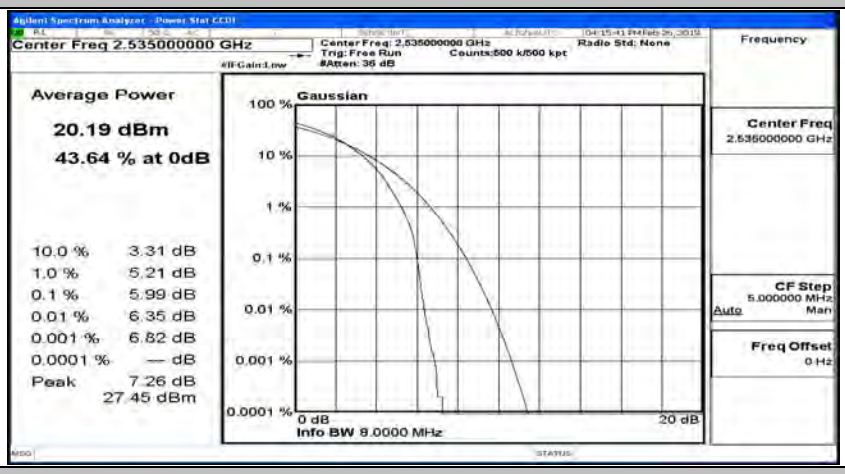
(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#0



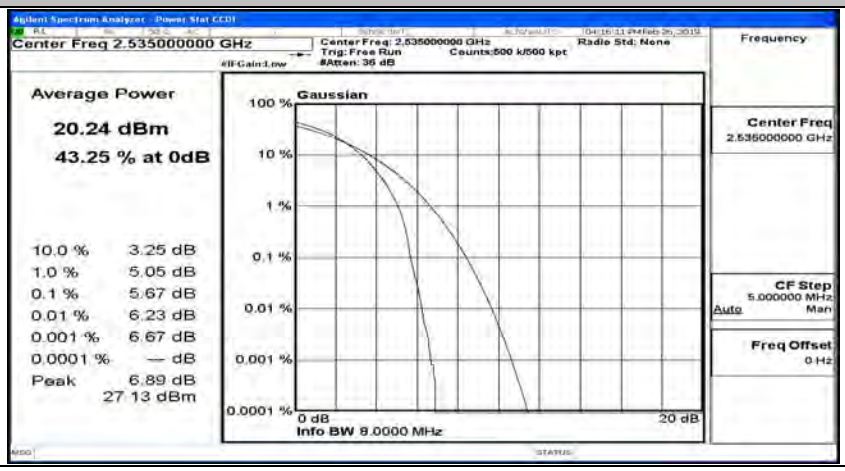
(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#25



(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#50

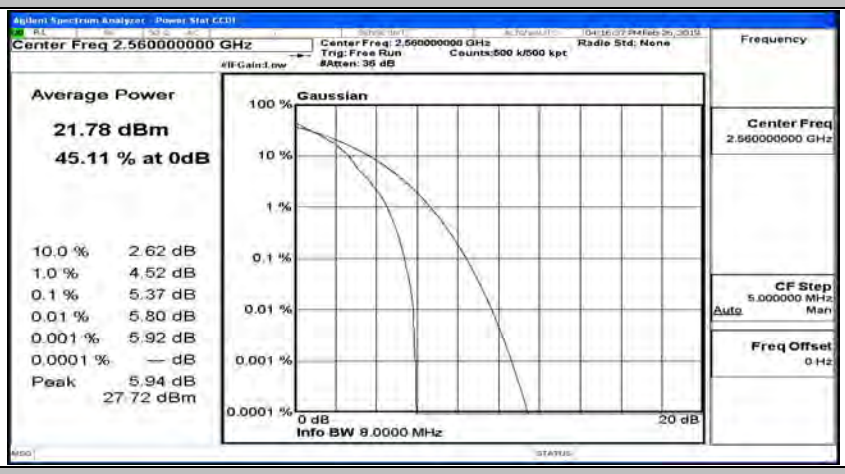


(Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0



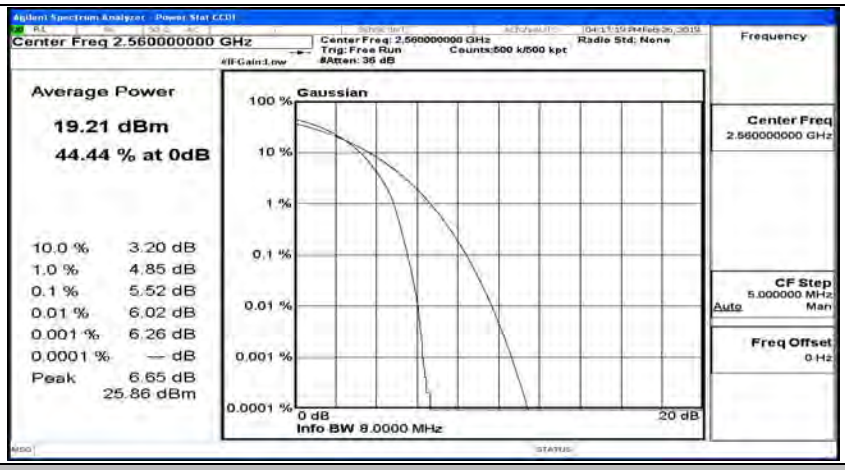
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

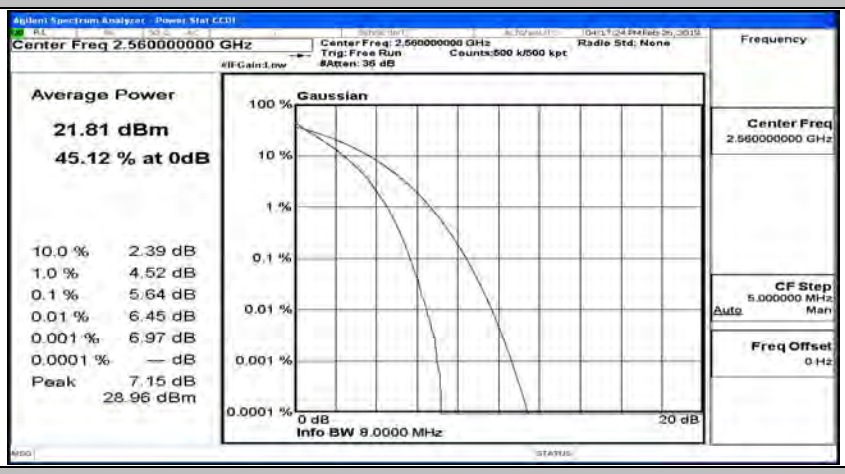


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

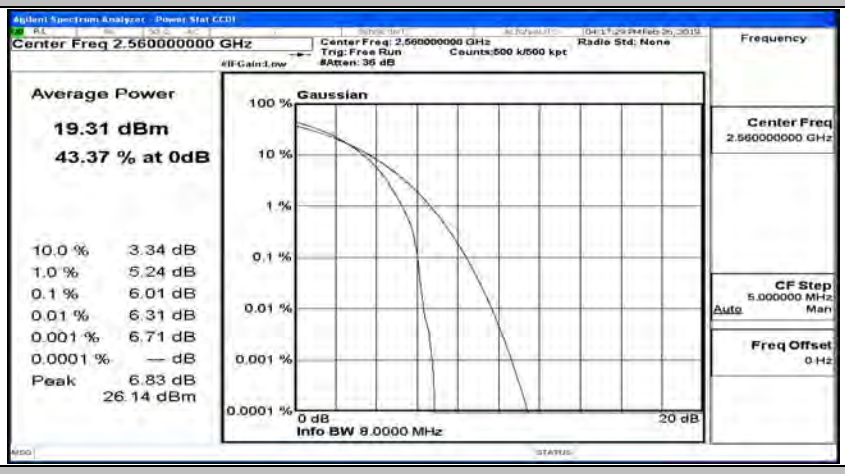
(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#0



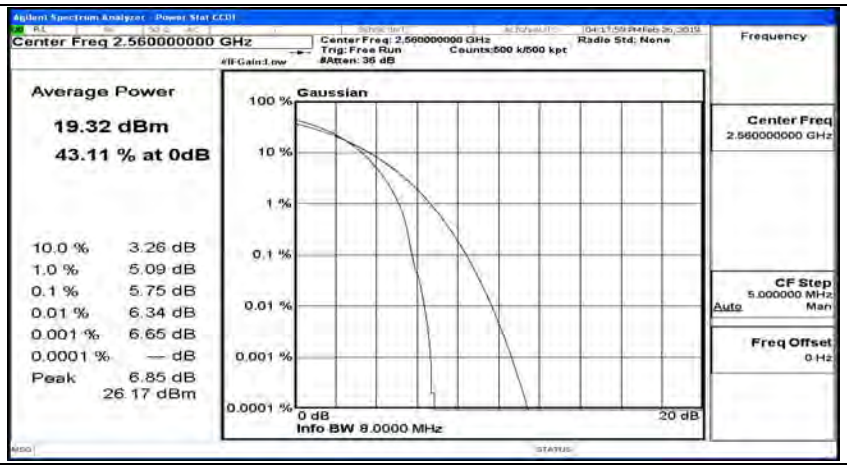
(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#25



(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#50

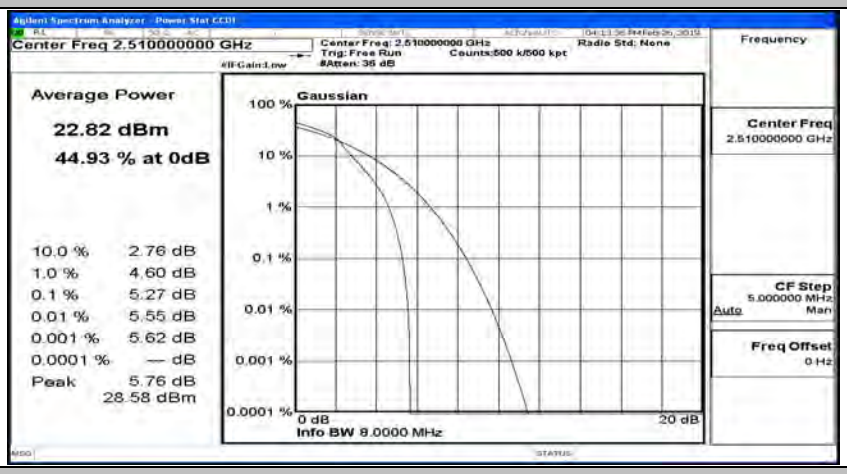


(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0



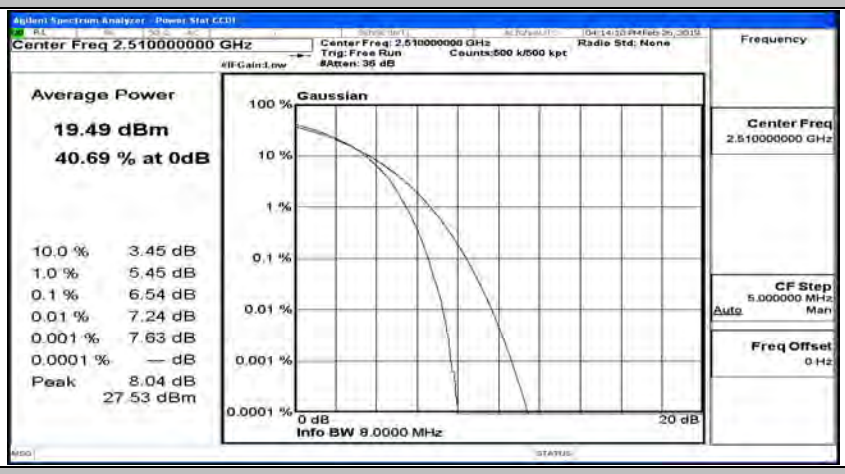
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

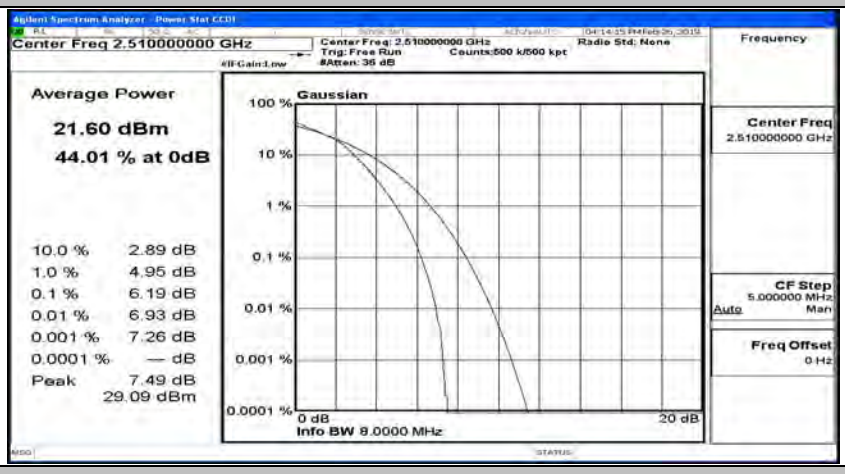


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99

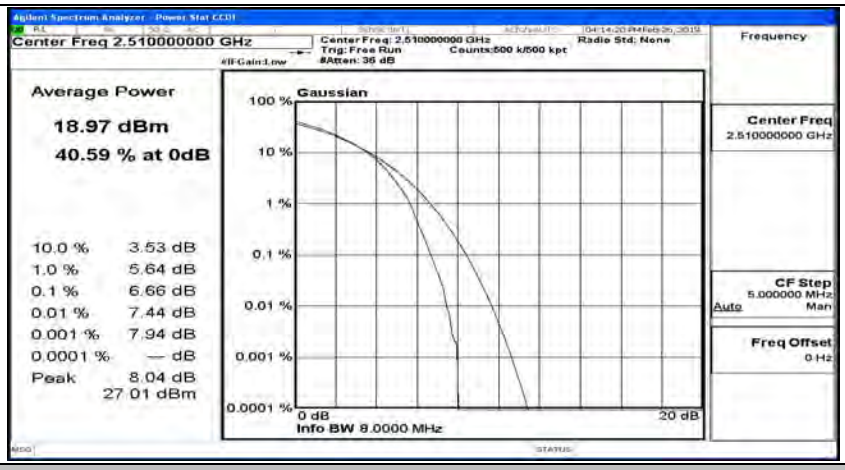
(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#0



(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#25



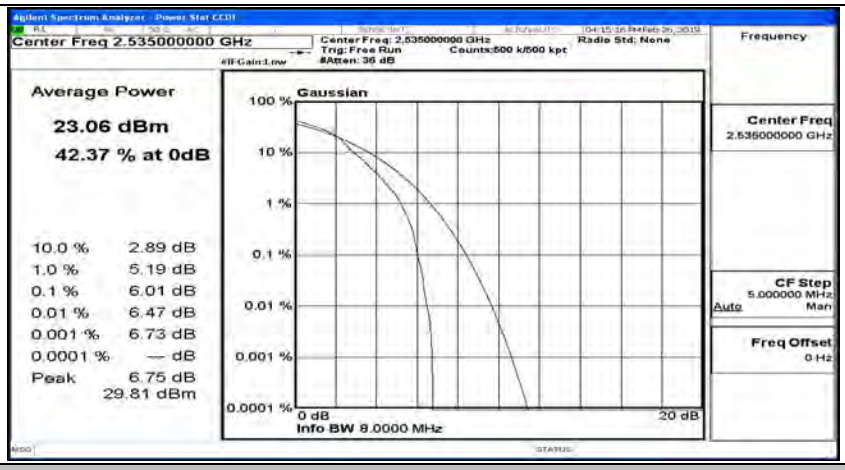
(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#50



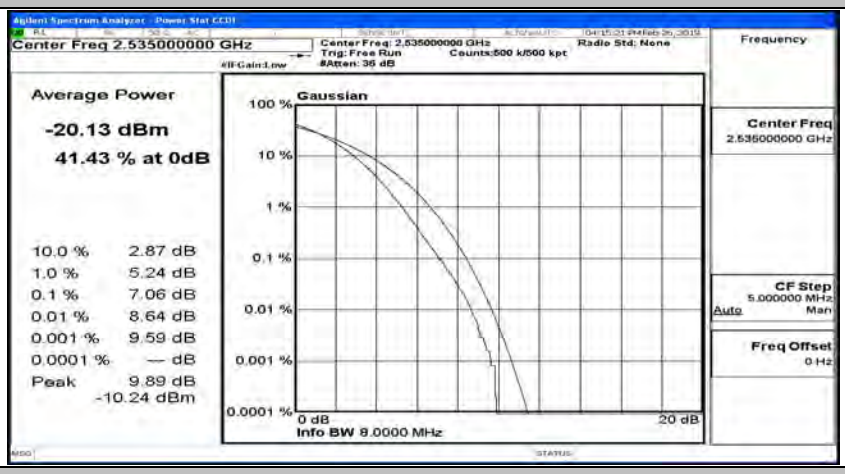
(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

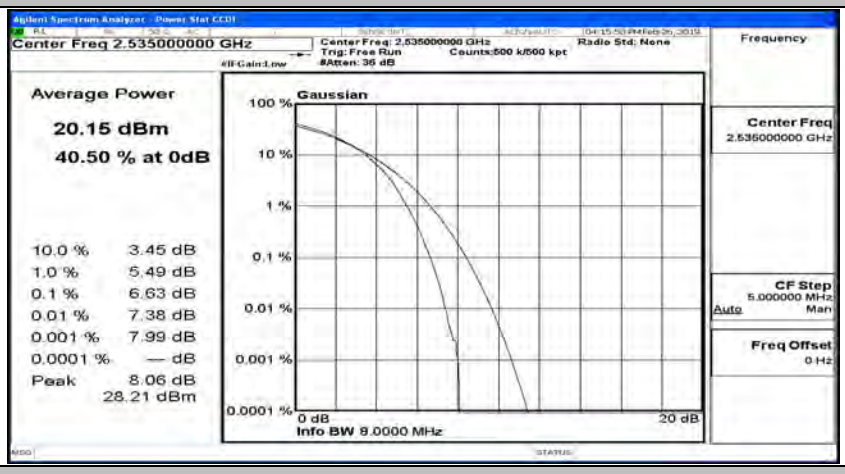
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49



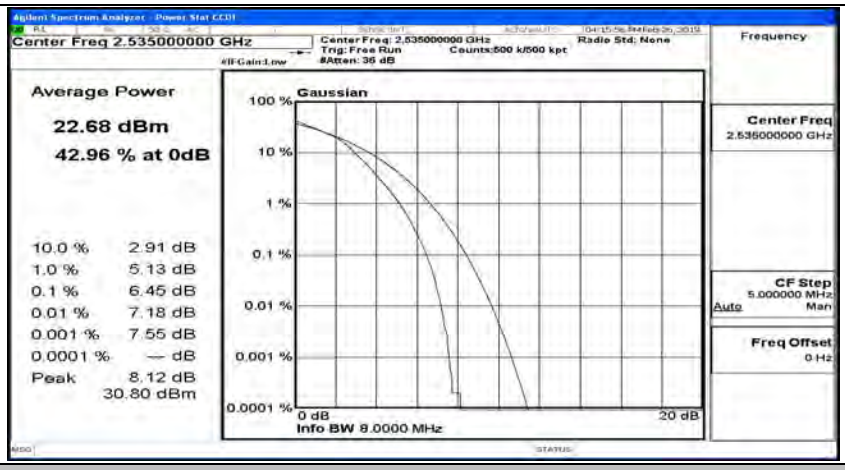
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99



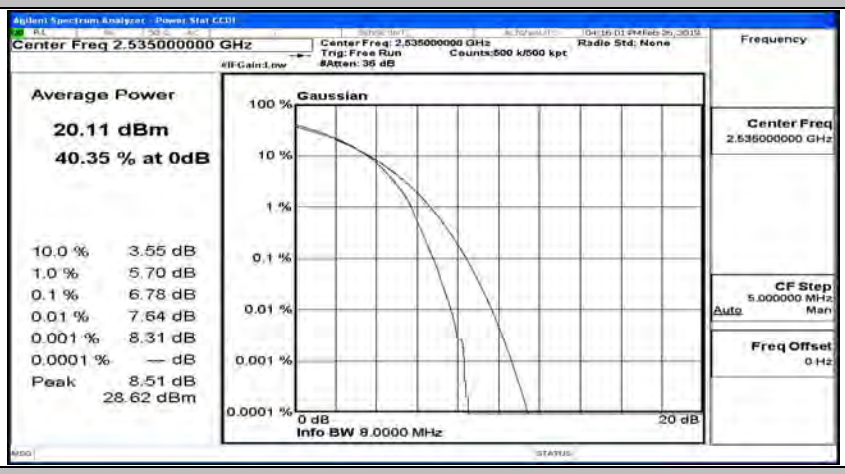
(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#0



(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#25



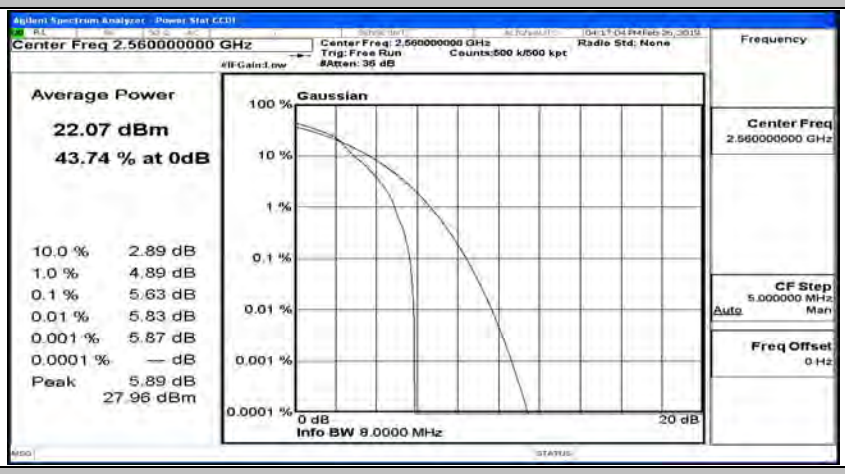
(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#50



(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0

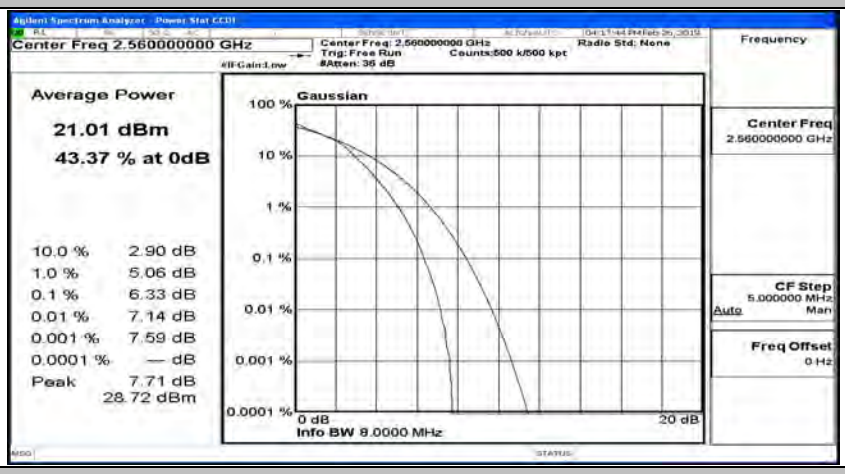
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49



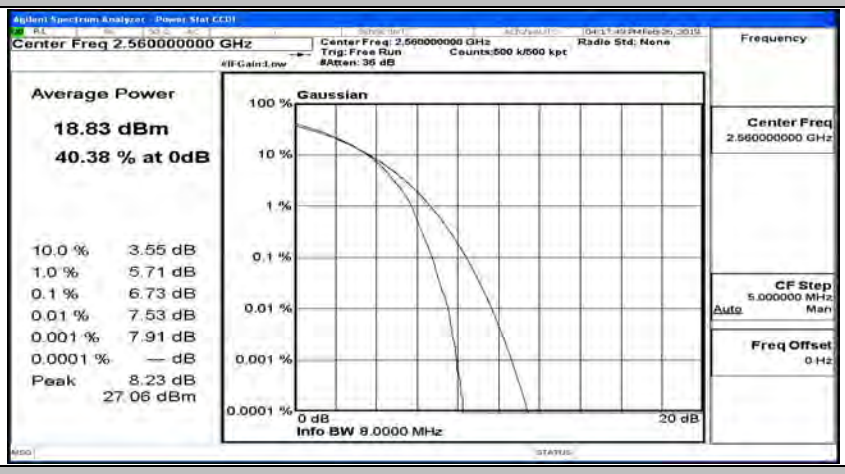
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#0

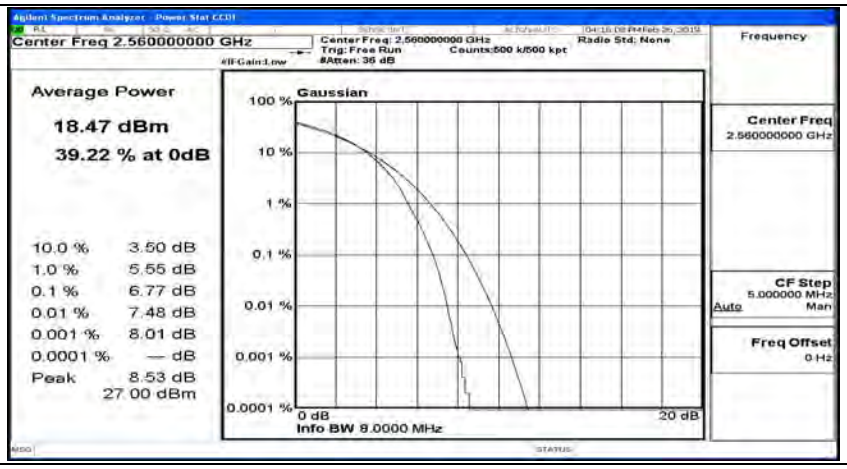
(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#25



(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#50



(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0


Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 2.560000000 GHz
Center Freq: 2.560000000 GHz
Trig: Free Run
Counts:500 k/500 kpt
#Atten: 36 dB
Radio Std: None
Frequency
Average Power
18.47 dBm
39.22 % at 0dB
10.0 % 3.50 dB
1.0 % 5.55 dB
0.1 % 6.77 dB
0.01 % 7.48 dB
0.001 % 8.01 dB
0.0001 % — dB
Peak 8.53 dB
27.00 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 8.0000 MHz
Center Freq
2.560000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

I.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.32859	0.5306	PASS
		1	12	0.34647	0.5677	PASS
		1	24	0.33491	0.5813	PASS
		12	0	2.1754	2.556	PASS
		12	6	2.1765	2.563	PASS
		12	13	2.1758	2.604	PASS
		25	0	4.4785	4.835	PASS
	MCH	1	0	0.32529	0.5007	PASS
		1	12	0.34258	0.5637	PASS
		1	24	0.33693	0.5272	PASS
		12	0	2.1743	2.565	PASS
		12	6	2.1773	2.636	PASS
		12	13	2.1743	2.602	PASS
		25	0	4.4734	4.877	PASS
	HCH	1	0	0.34927	0.5710	PASS
		1	12	0.35912	0.5646	PASS
		1	24	0.33390	0.5177	PASS
		12	0	2.1773	2.623	PASS
		12	6	2.1828	2.603	PASS
		12	13	2.1863	2.585	PASS
		25	0	4.4829	4.825	PASS
16QAM	LCH	1	0	0.34616	0.6028	PASS
		1	12	0.34792	0.5439	PASS
		1	24	0.34460	0.5488	PASS
		12	0	2.1749	2.622	PASS
		12	6	2.1783	2.571	PASS
		12	13	2.1745	2.569	PASS
		25	0	4.4813	4.880	PASS
	MCH	1	0	0.37095	0.5749	PASS
		1	12	0.38122	0.6058	PASS
		1	24	0.37300	0.6258	PASS

		12	0	2.1828	2.556	PASS
		12	6	2.1817	2.544	PASS
		12	13	2.1768	2.550	PASS
		25	0	4.4797	4.890	PASS
	HCH	1	0	0.34438	0.5347	PASS
		1	12	0.38070	0.6008	PASS
		1	24	0.34786	0.5596	PASS
		12	0	2.1756	2.537	PASS
		12	6	2.1755	2.537	PASS
		12	13	2.1744	2.585	PASS
		25	0	4.4737	4.823	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.42871	0.6590	PASS
		1	25	0.44000	0.6696	PASS
		1	49	0.43624	0.7026	PASS
		25	0	4.5181	5.039	PASS
		25	12	4.5154	5.134	PASS
		25	25	4.5152	5.057	PASS
		50	0	8.9635	9.521	PASS
	MCH	1	0	0.45169	0.7010	PASS
		1	25	0.43667	0.6688	PASS
		1	49	0.42581	0.6616	PASS
		25	0	4.5057	4.995	PASS
		25	12	4.5163	5.097	PASS
		25	25	4.5288	5.048	PASS
		50	0	8.9447	9.537	PASS
	HCH	1	0	0.44911	0.6909	PASS
		1	25	0.44518	0.6832	PASS
		1	49	0.43803	0.6802	PASS
		25	0	4.5137	5.010	PASS
		25	12	4.5202	5.099	PASS
		25	25	4.5126	5.017	PASS
		50	0	8.9411	9.484	PASS
16QAM	LCH	1	0	0.43738	0.6355	PASS
		1	25	0.43722	0.6930	PASS
		1	49	0.44878	0.6993	PASS
		25	0	4.5197	5.034	PASS

		25	12	4.5196	5.057	PASS
		25	25	4.5170	5.066	PASS
		50	0	8.9538	9.505	PASS
	MCH	1	0	0.43053	0.6731	PASS
		1	25	0.44270	0.6718	PASS
		1	49	0.43060	0.6922	PASS
		25	0	4.5108	4.942	PASS
		25	12	4.5080	5.072	PASS
		25	25	4.5184	5.021	PASS
		50	0	8.9409	9.433	PASS
	HCH	1	0	0.45216	0.7186	PASS
		1	25	0.44048	0.6665	PASS
		1	49	0.44803	0.6738	PASS
		25	0	4.5147	5.094	PASS
		25	12	4.5072	5.135	PASS
		25	25	4.5033	5.009	PASS
		50	0	8.9524	9.482	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.54162	0.7972	PASS
		1	37	0.53746	0.7806	PASS
		1	74	0.52449	0.7595	PASS
		37	0	6.4907	7.096	PASS
		37	18	6.4999	7.155	PASS
		37	38	6.4826	7.177	PASS
		75	0	13.413	14.07	PASS
	MCH	1	0	0.50868	0.8051	PASS
		1	37	0.52467	0.7854	PASS
		1	74	0.52302	0.7932	PASS
		37	0	6.4933	7.071	PASS
		37	18	6.4943	7.190	PASS
		37	38	6.4953	7.185	PASS
		75	0	13.398	14.12	PASS
	HCH	1	0	0.53752	0.7876	PASS
		1	37	0.53779	0.7851	PASS
		1	74	0.53169	0.7793	PASS
		37	0	6.5141	7.176	PASS

		37	18	6.5130	7.422	PASS
		37	38	6.5036	7.160	PASS
		75	0	13.413	14.16	PASS
16QAM	LCH	1	0	0.52707	0.8569	PASS
		1	37	0.53050	0.7768	PASS
		1	74	0.50972	0.7936	PASS
		37	0	6.4993	7.246	PASS
		37	18	6.4876	7.235	PASS
		37	38	6.4853	7.180	PASS
		75	0	13.411	14.12	PASS
	MCH	1	0	0.53935	0.7373	PASS
		1	37	0.52361	0.7712	PASS
		1	74	0.52853	0.8537	PASS
		37	0	6.4969	7.082	PASS
		37	18	6.4874	7.161	PASS
		37	38	6.4856	7.197	PASS
		75	0	13.412	14.17	PASS
	HCH	1	0	0.51675	0.7682	PASS
		1	37	0.50788	0.7600	PASS
		1	74	0.52549	0.7891	PASS
		37	0	6.4919	7.100	PASS
		37	18	6.5087	7.335	PASS
		37	38	6.5007	7.181	PASS
		75	0	13.420	14.14	PASS

Channel Bandwidth: 20 MHz

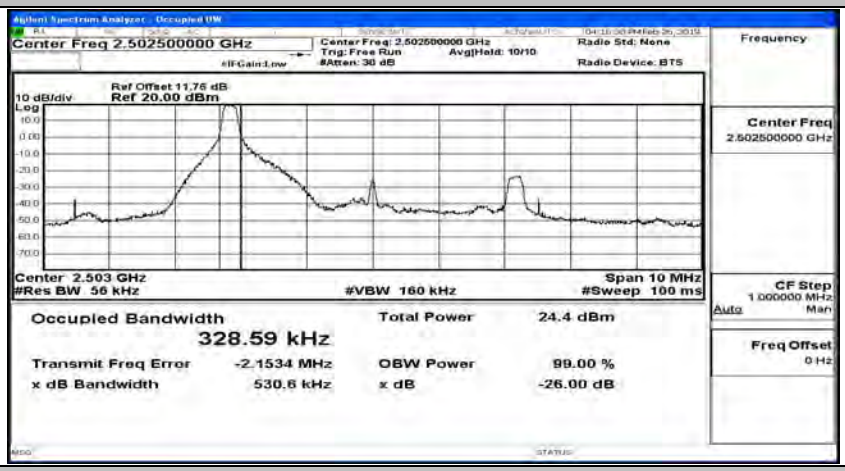
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.60387	0.9044	PASS
		1	50	0.60077	0.8666	PASS
		1	99	0.60935	0.8820	PASS
		50	0	8.9917	9.708	PASS
		50	25	8.9814	9.635	PASS
		50	50	8.9874	9.751	PASS
		100	0	17.853	18.61	PASS
	MCH	1	0	0.60722	0.8698	PASS
		1	50	0.59574	0.8624	PASS
		1	99	0.60984	0.9334	PASS
		50	0	8.9834	9.649	PASS

		50	25	8.9845	9.788	PASS
		50	50	9.0002	9.719	PASS
		100	0	17.864	18.66	PASS
	HCH	1	0	0.61062	0.9198	PASS
		1	50	0.61279	0.9079	PASS
		1	99	0.60752	0.8827	PASS
		50	0	8.9934	9.647	PASS
		50	25	9.0024	9.581	PASS
		50	50	8.9899	9.612	PASS
		100	0	17.871	18.76	PASS
16QAM	LCH	1	0	0.62644	0.9510	PASS
		1	50	0.61158	0.9407	PASS
		1	99	0.59121	0.8488	PASS
		50	0	8.9992	9.660	PASS
		50	25	8.9869	9.719	PASS
		50	50	8.9711	9.608	PASS
		100	0	17.848	18.60	PASS
	MCH	1	0	0.62404	0.9210	PASS
		1	50	0.60222	0.8328	PASS
		1	99	0.59664	0.8072	PASS
		50	0	8.9771	9.671	PASS
		50	25	9.0003	9.631	PASS
		50	50	8.9880	9.689	PASS
		100	0	17.853	18.61	PASS
	HCH	1	0	0.59884	0.8706	PASS
		1	50	0.61191	0.9048	PASS
		1	99	0.60040	0.8420	PASS
		50	0	8.9880	9.603	PASS
		50	25	9.0026	9.733	PASS
		50	50	8.9934	9.843	PASS
		100	0	17.854	18.65	PASS

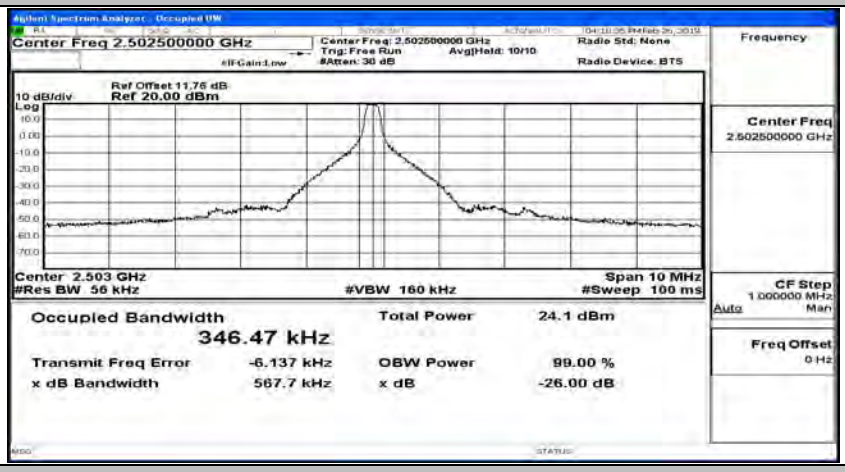
Test Graphs

Channel Bandwidth: 5 MHz

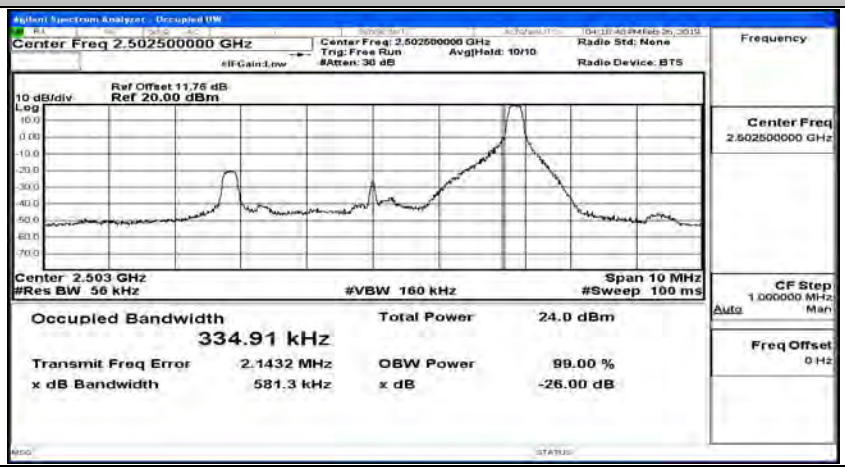
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



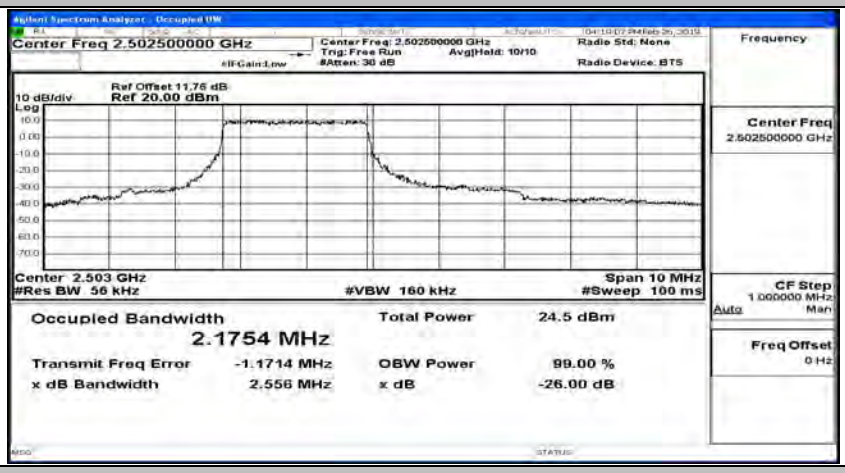
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

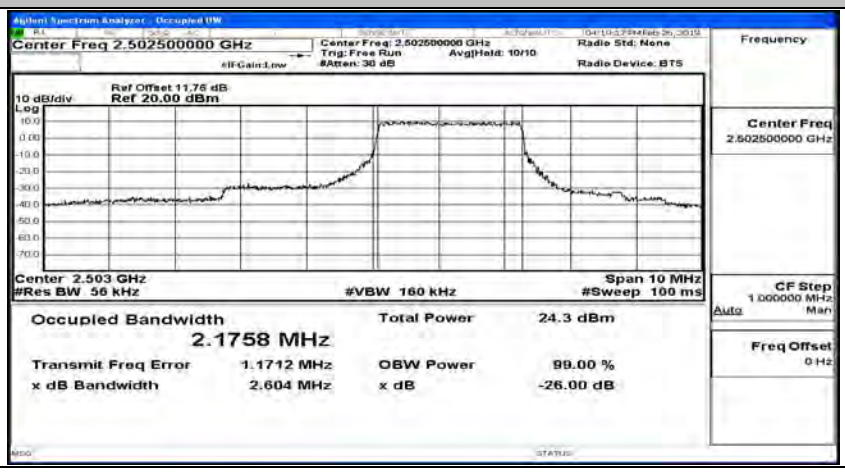


(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0

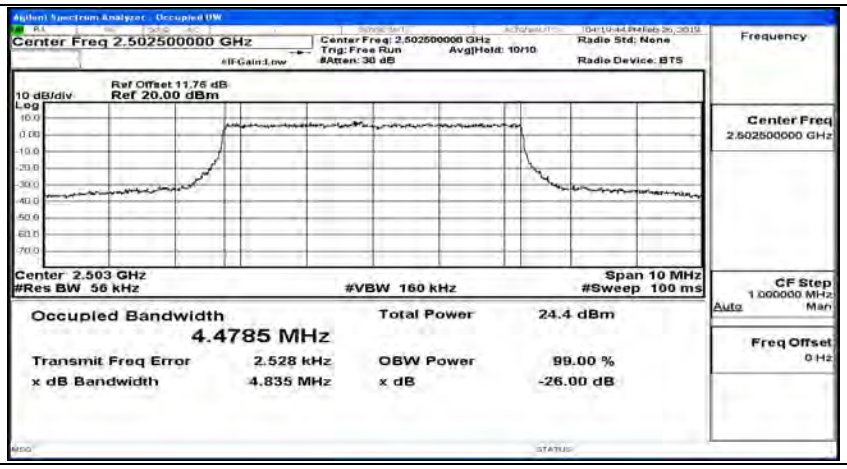


(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6

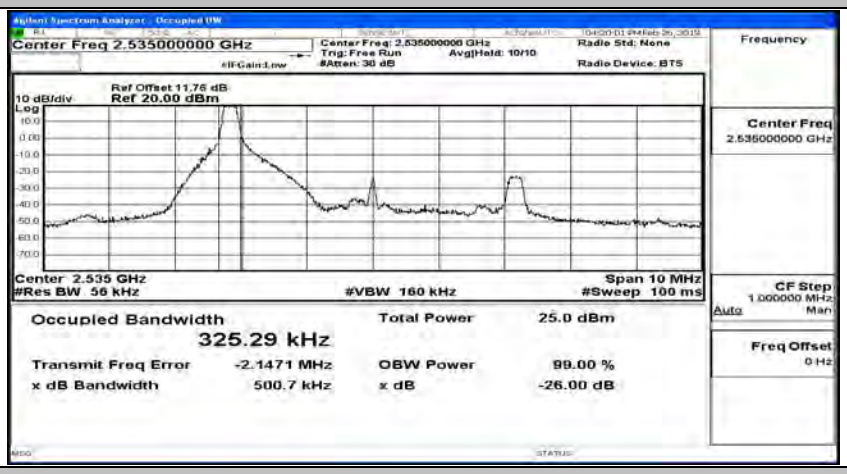
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



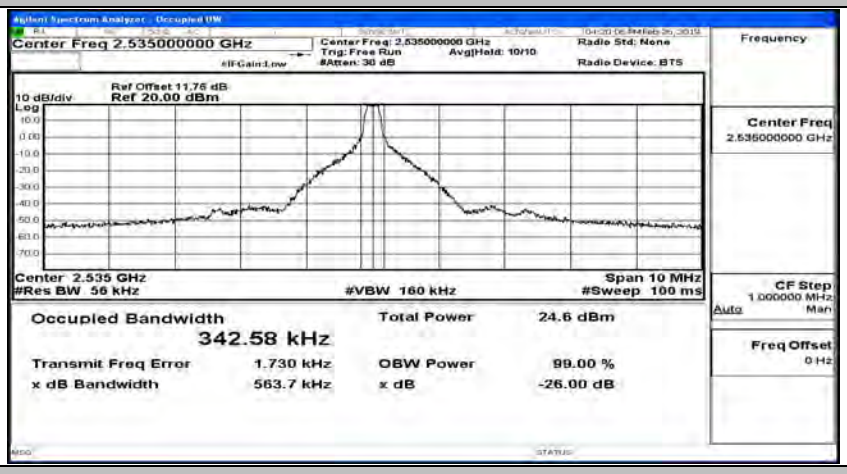
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



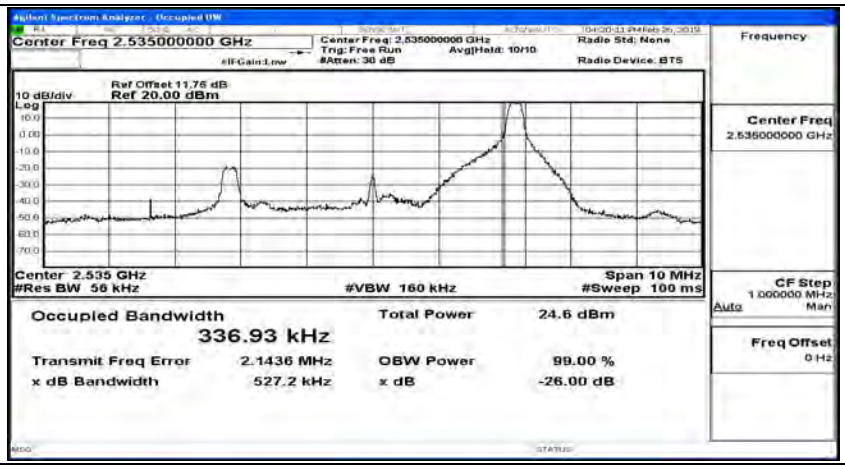
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



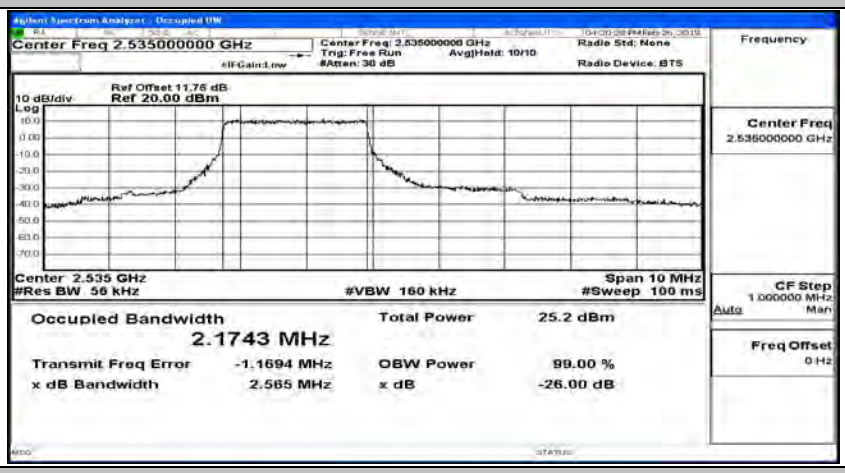
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



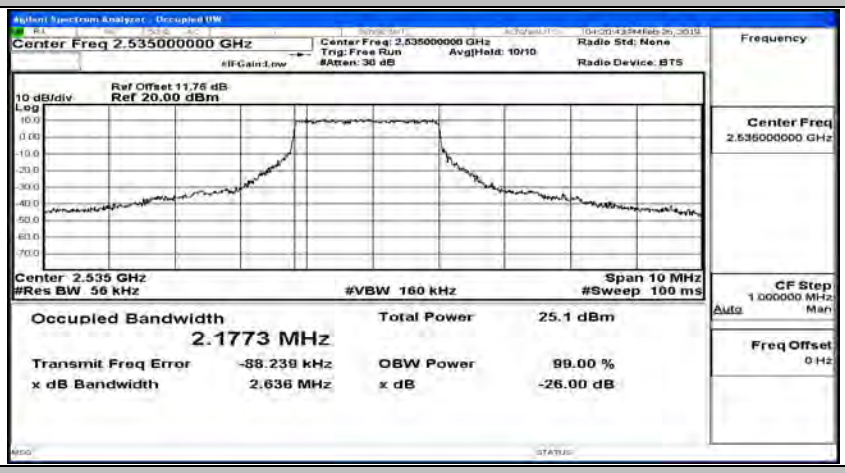
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



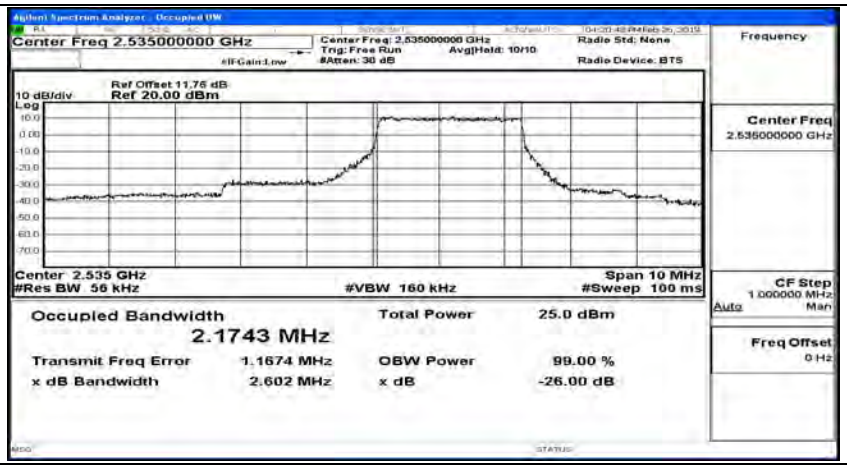
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



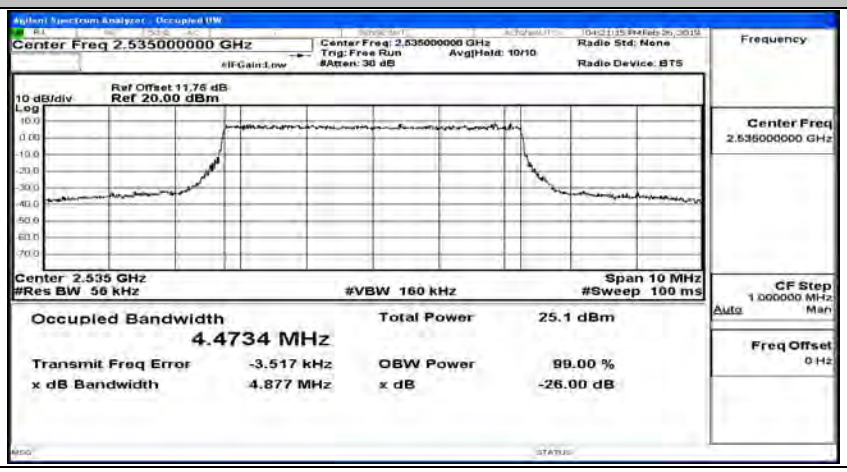
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



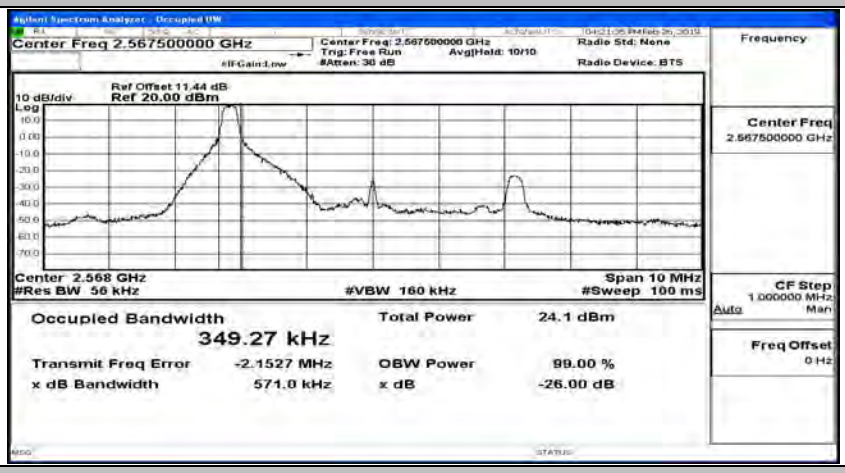
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



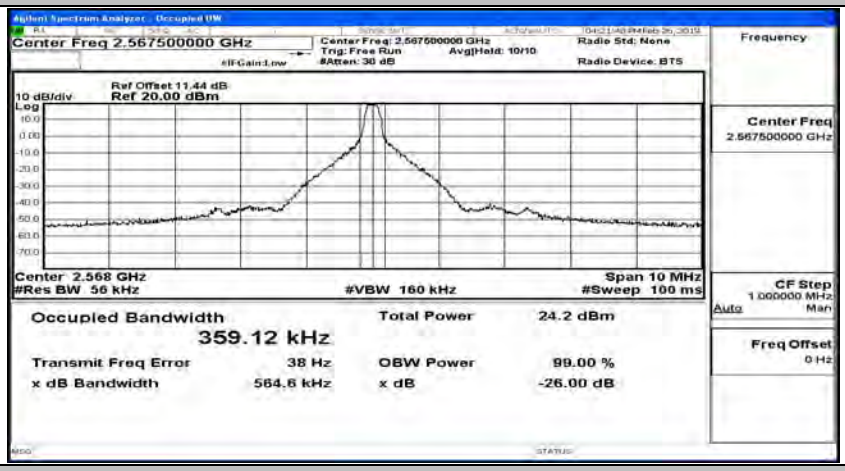
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



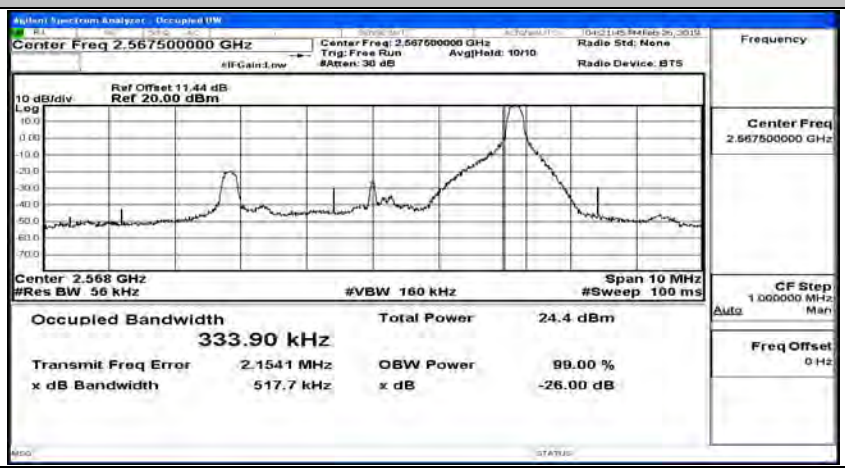
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



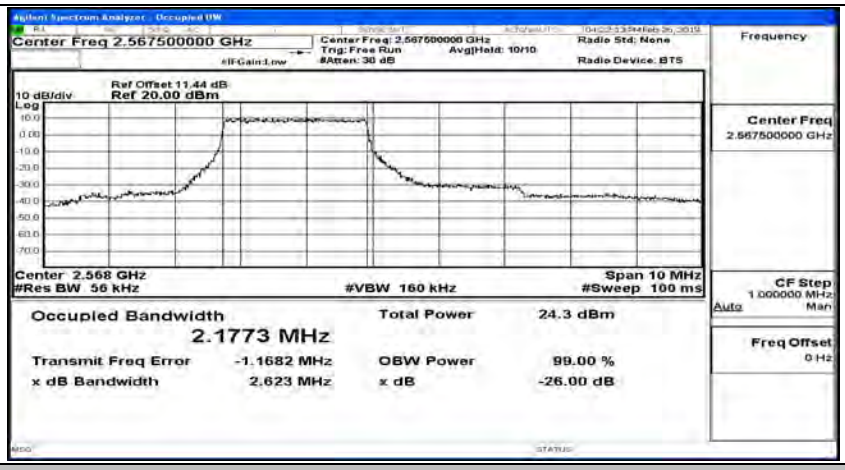
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



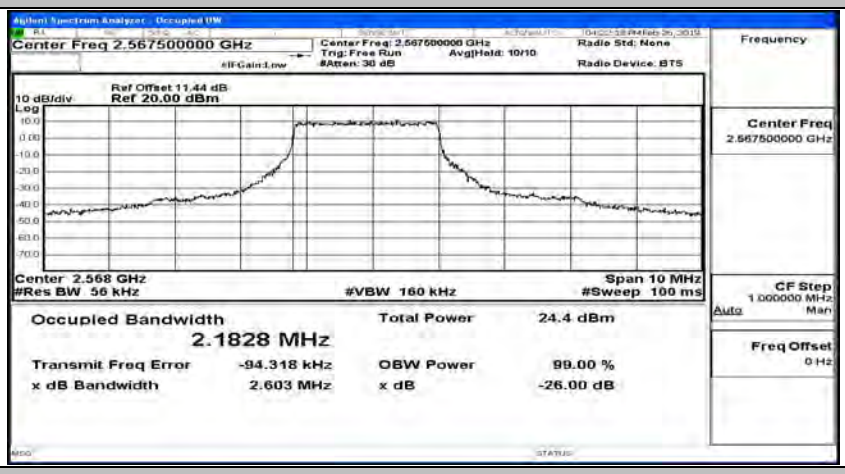
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



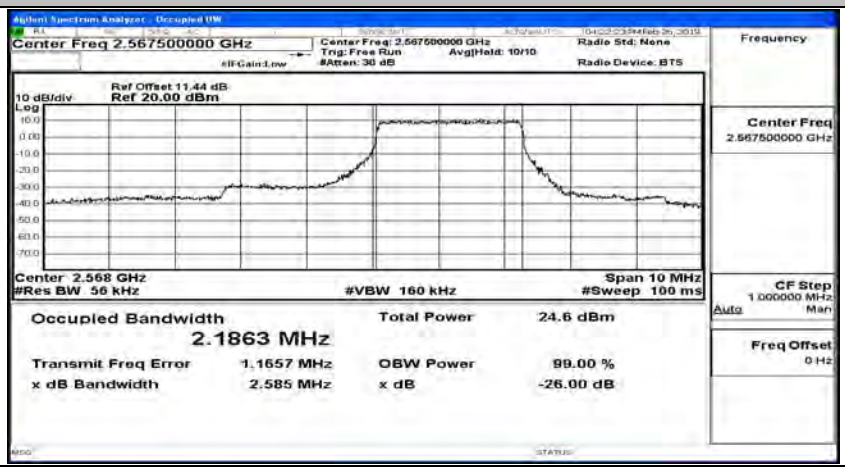
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



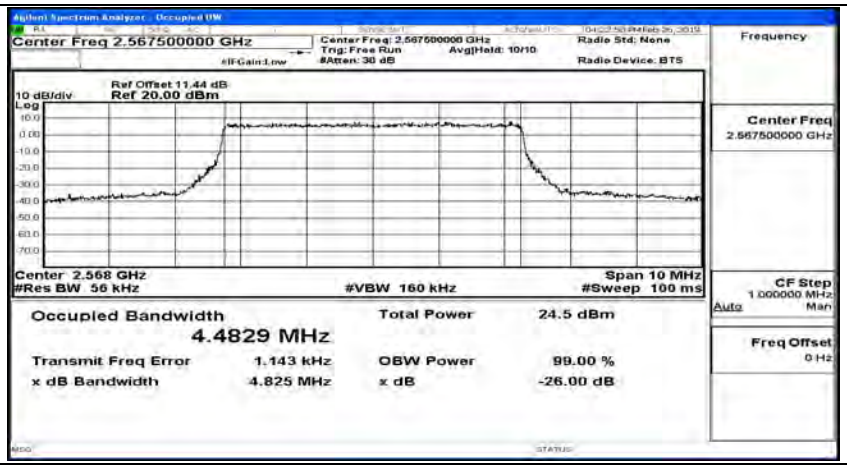
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



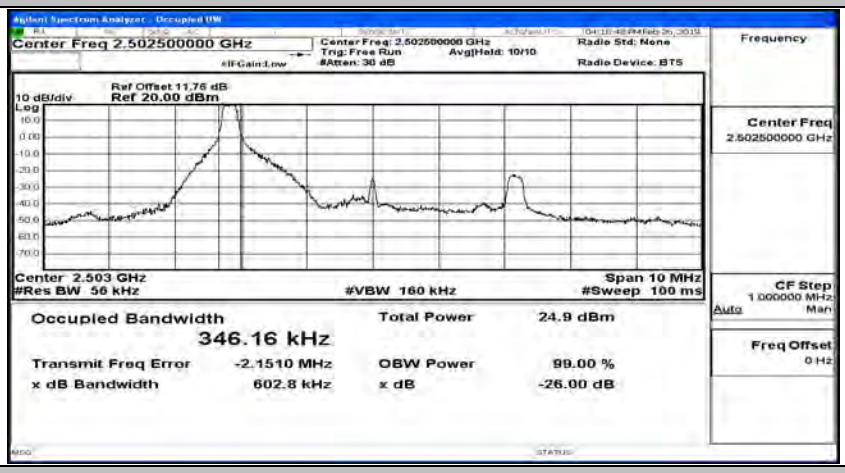
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



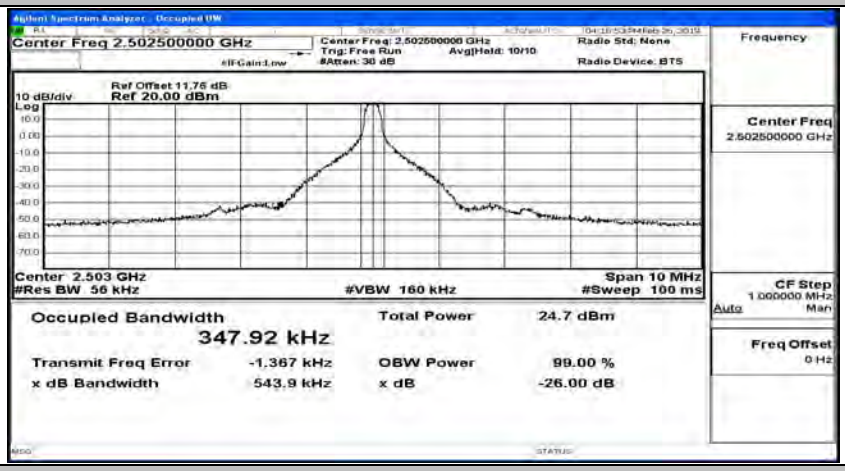
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.567500000 GHz
Center Freq: 2.567500000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 11.44 dB
10 dB/div
Ref 20.00 dBm
Log
Center Freq
2.567500000 GHz
Center 2.568 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms
CF Step
1.000000 MHz
Auto
Man
Occupied Bandwidth
4.4829 MHz
Total Power
24.5 dBm
Transmit Freq Error
1.143 kHz
OBW Power
99.00 %
x dB Bandwidth
4.825 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

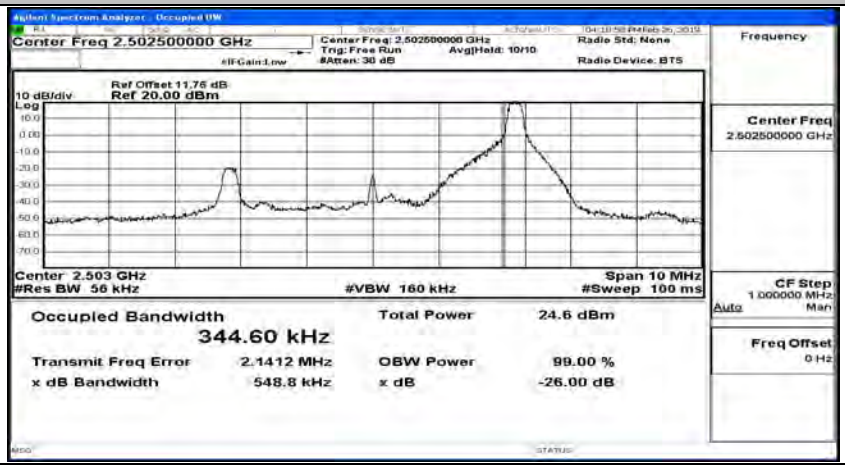
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



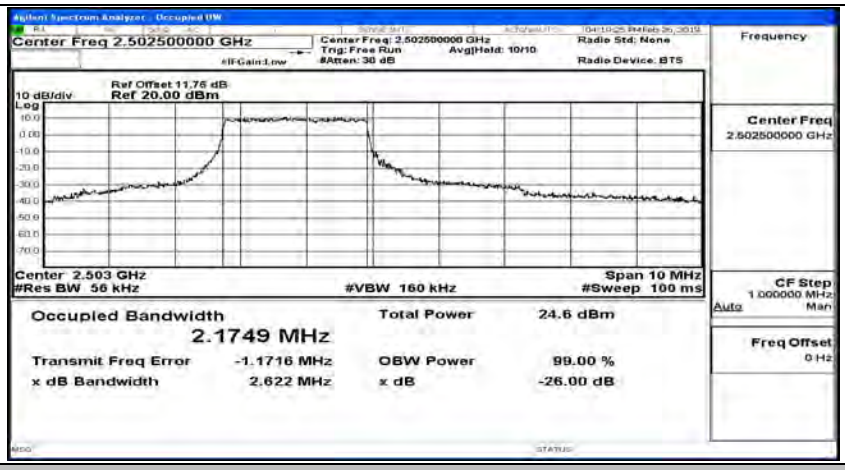
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



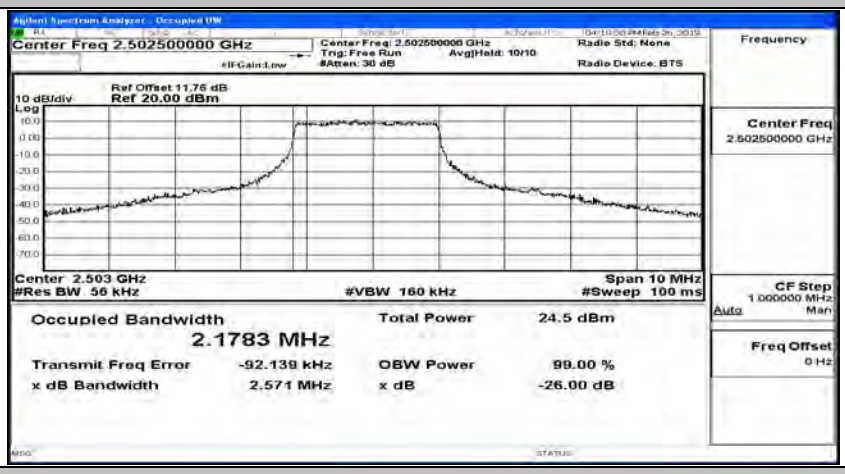
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

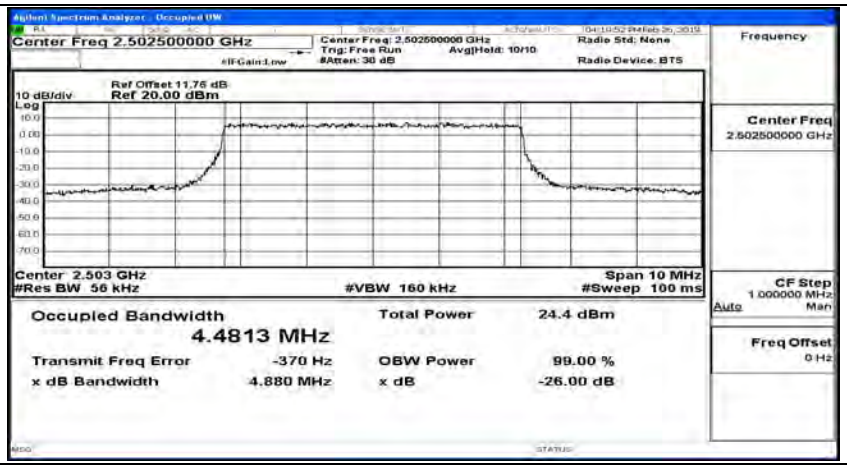


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6

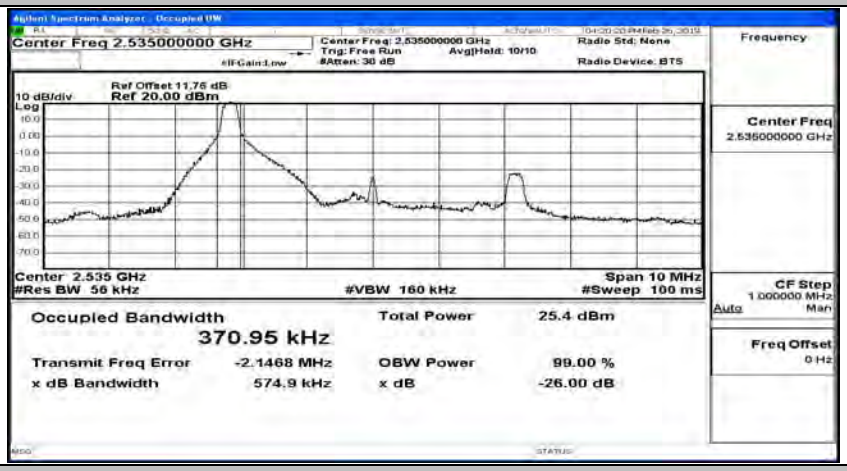


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13

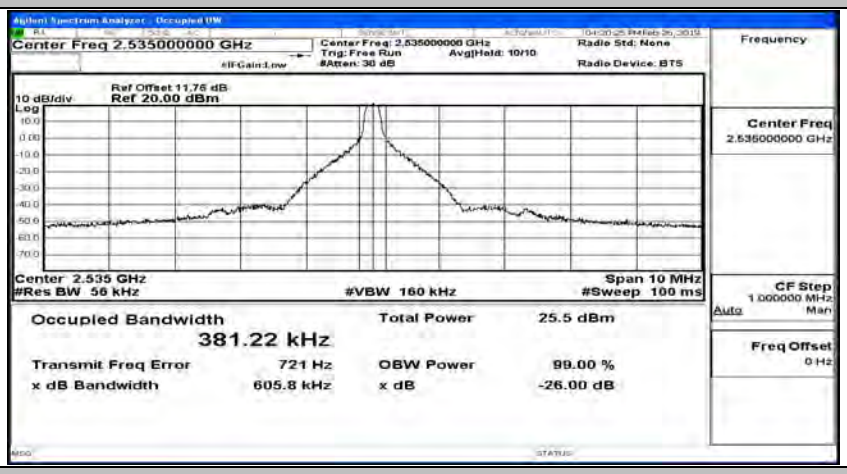
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



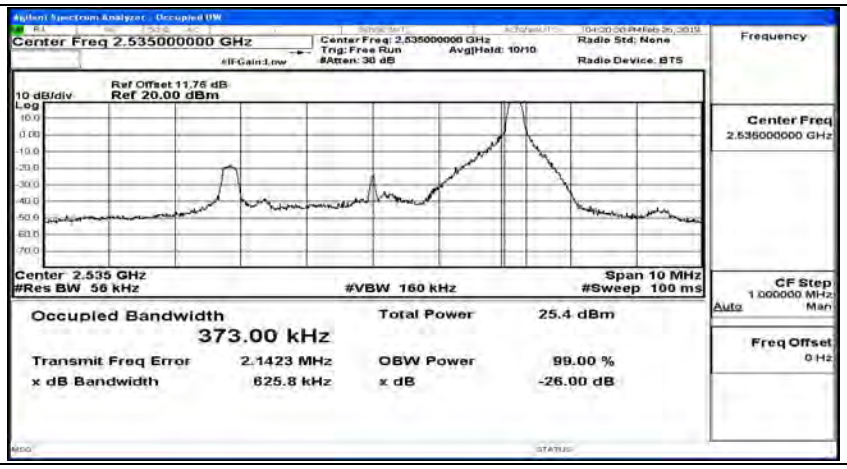
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



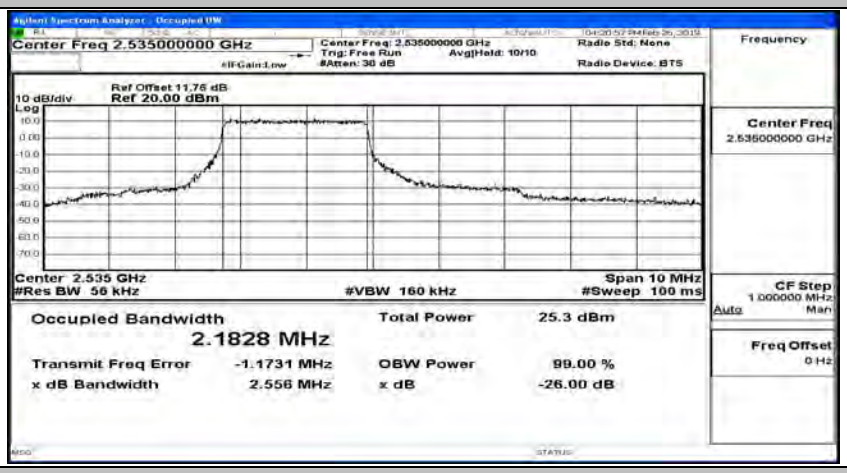
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



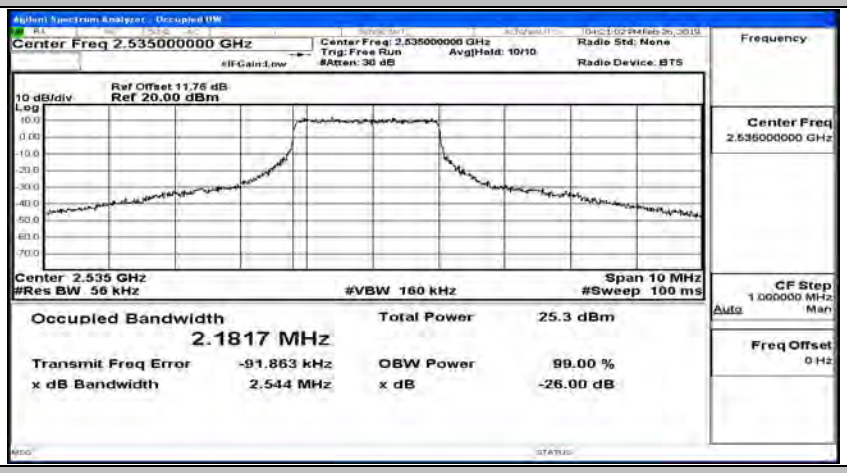
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



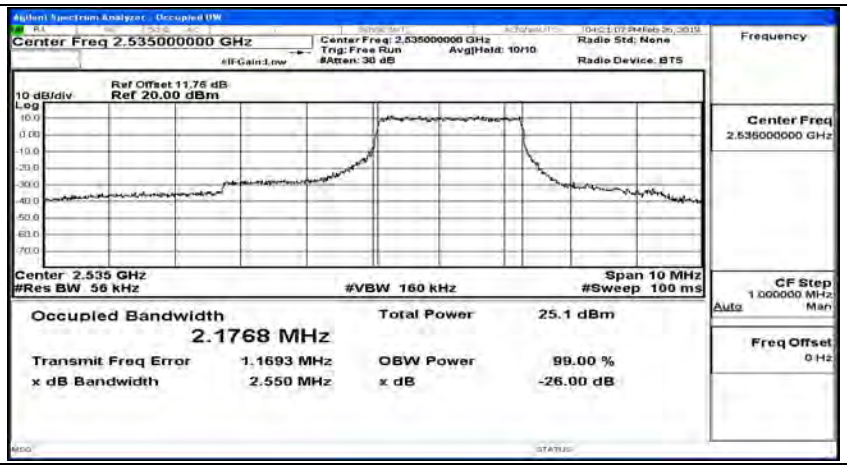
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



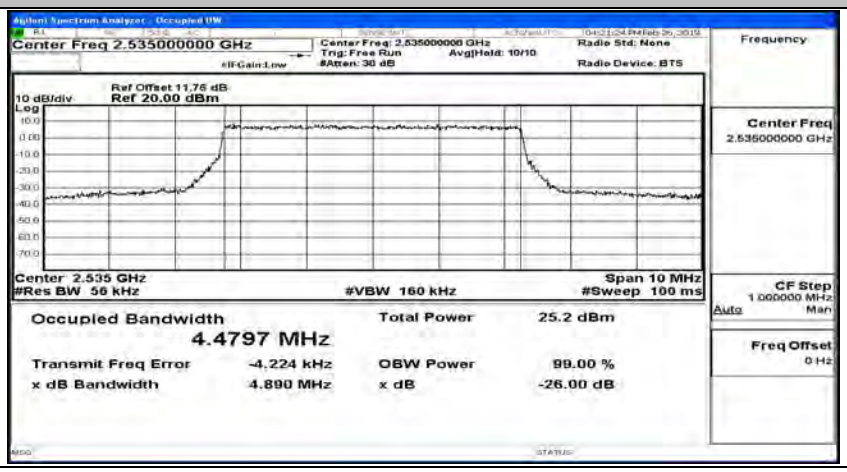
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6



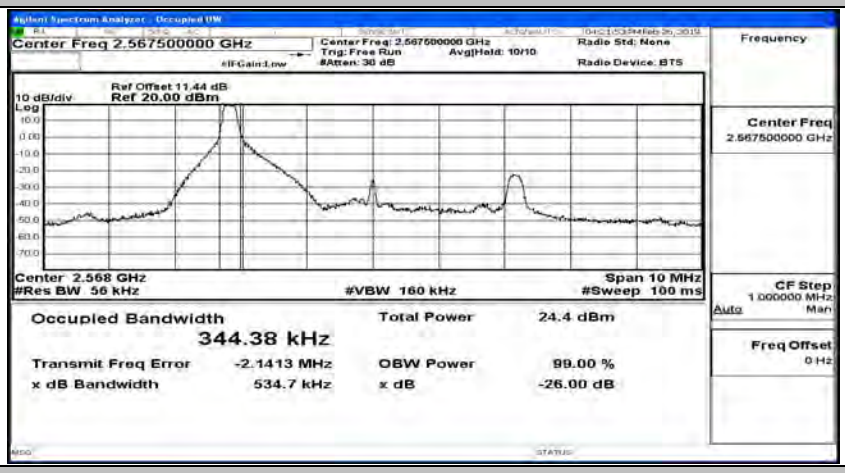
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



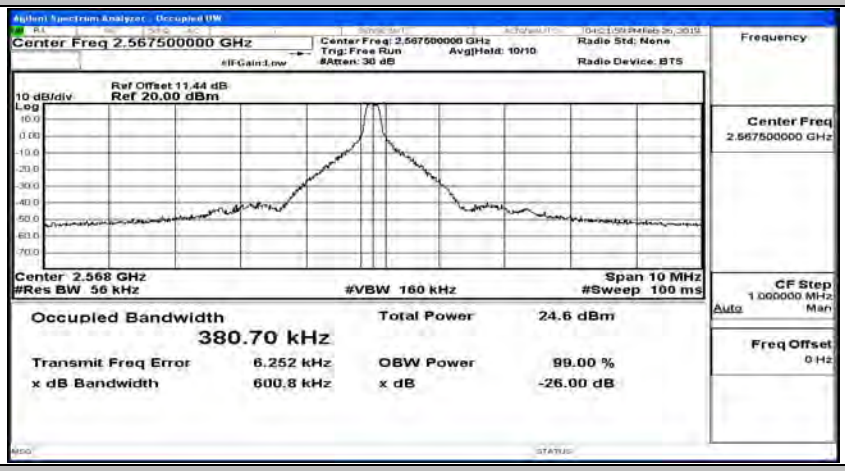
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



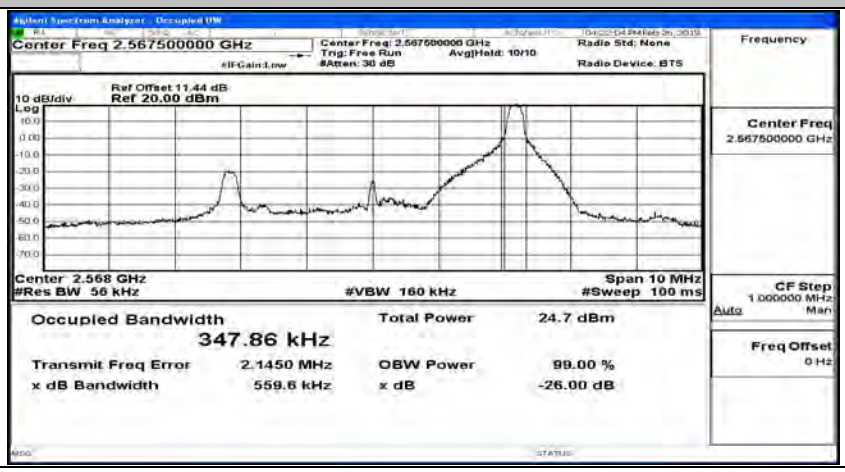
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



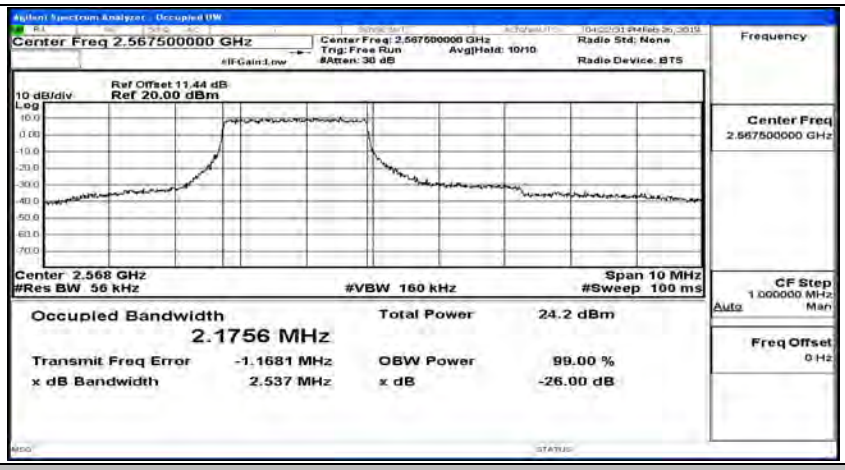
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



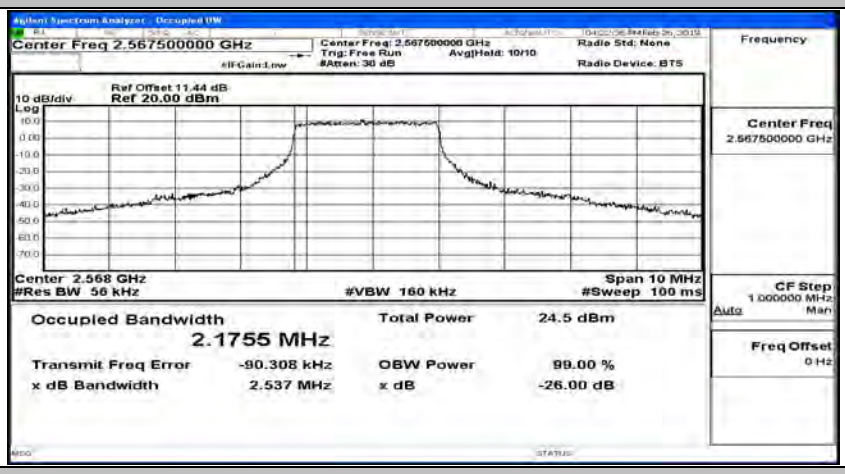
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



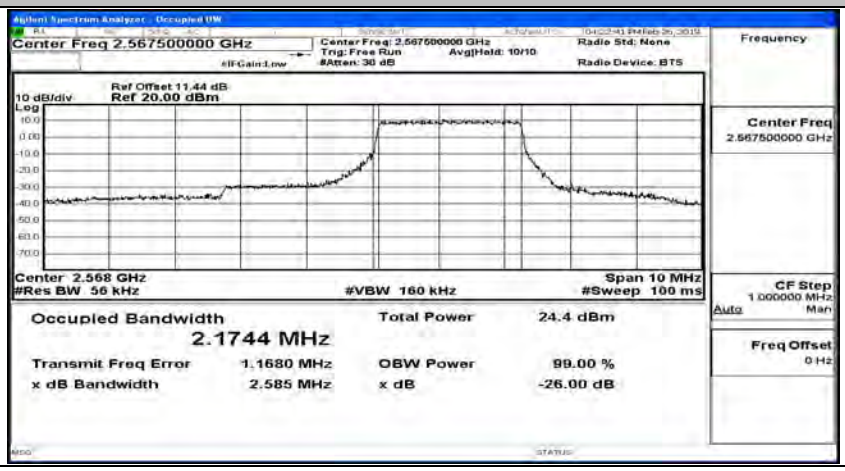
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



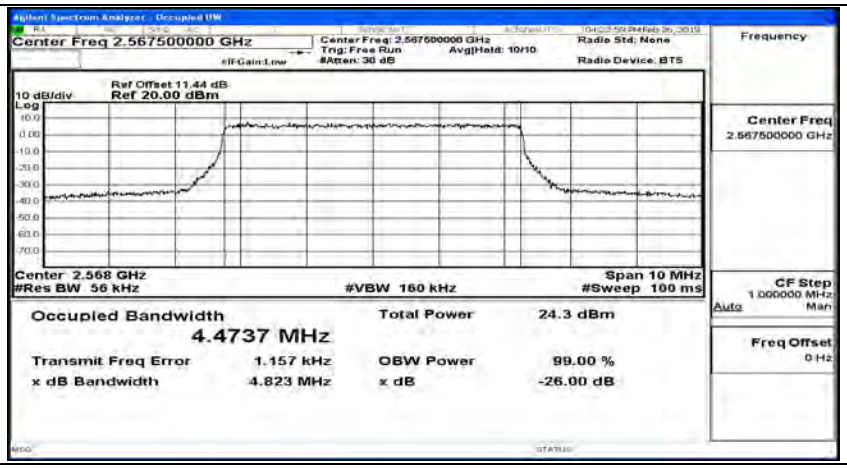
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

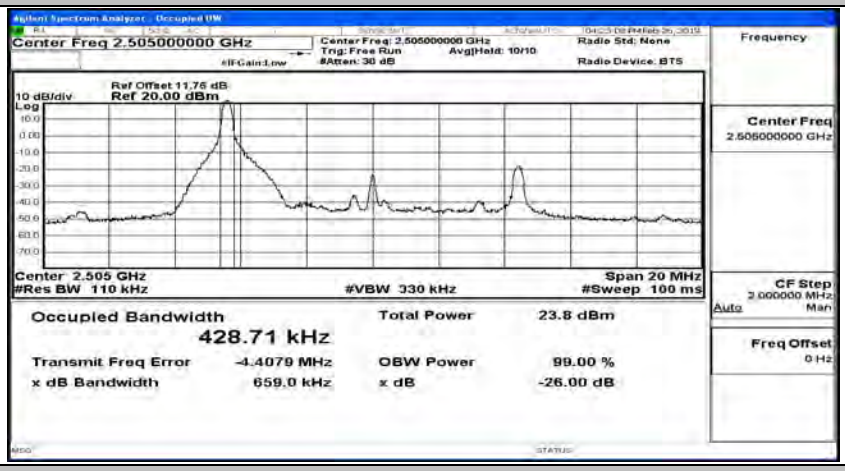


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

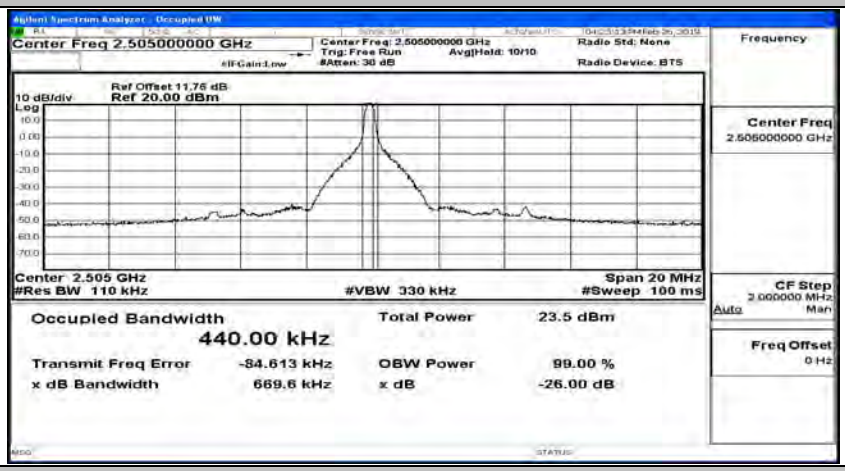

Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.567500000 GHz
Center Freq: 2.567500000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 11.44 dB
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.568 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms
Center Freq
2.567500000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
Occupied Bandwidth
4.4737 MHz
Total Power
24.3 dBm
Transmit Freq Error
1.157 kHz
OBW Power
99.00 %
x dB Bandwidth
4.823 MHz
x dB
-26.00 dB
MSG
STATUS

Channel Bandwidth: 10 MHz

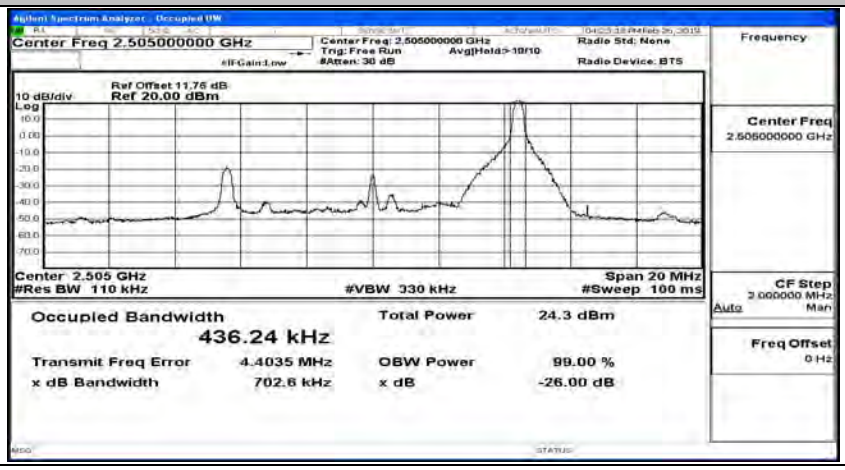
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



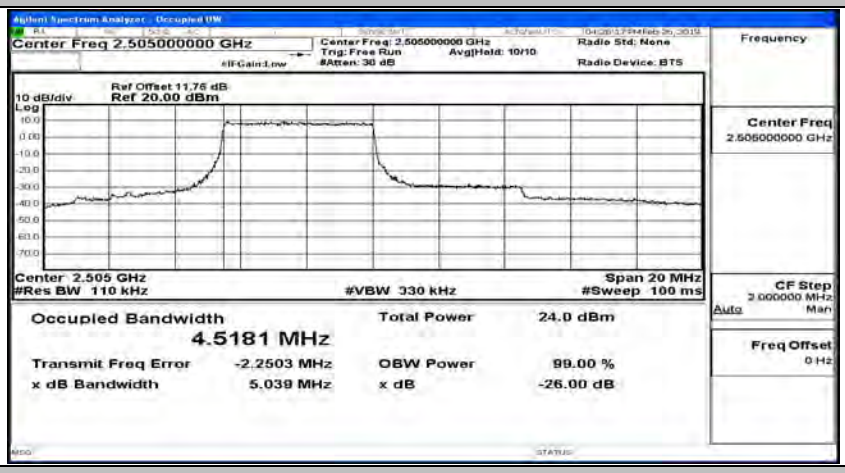
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#25



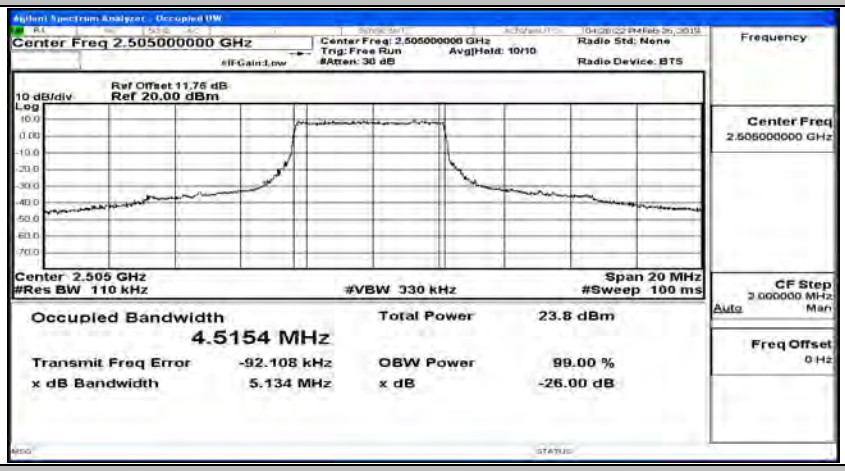
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



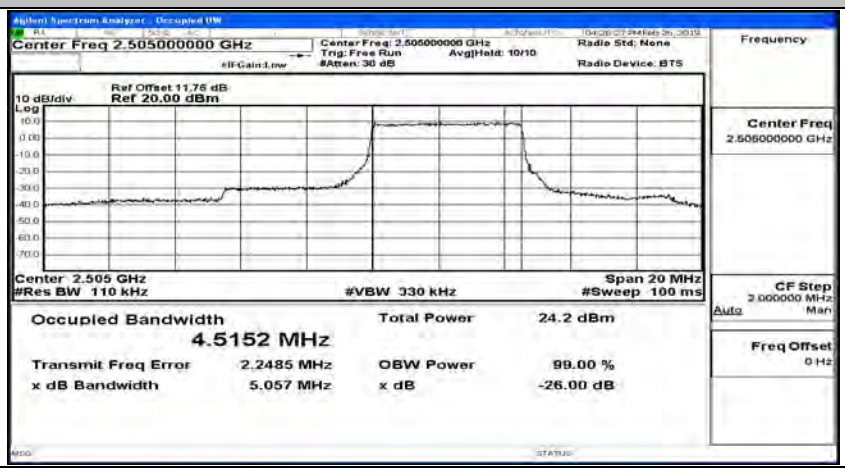
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0



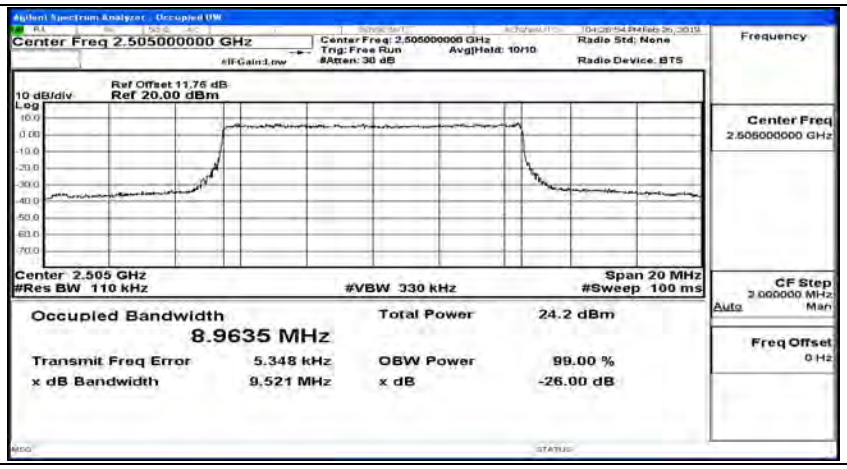
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



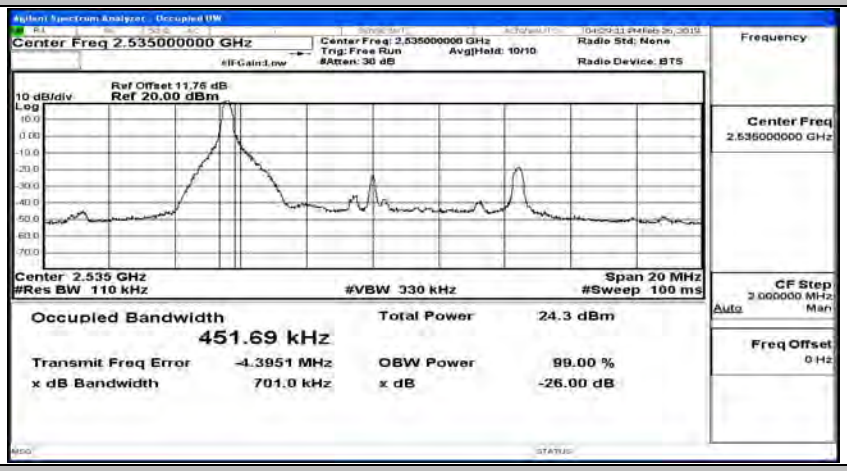
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25



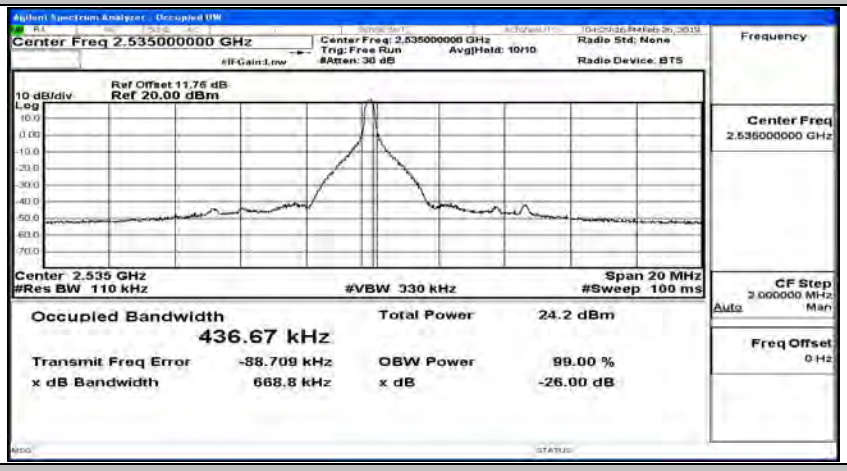
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



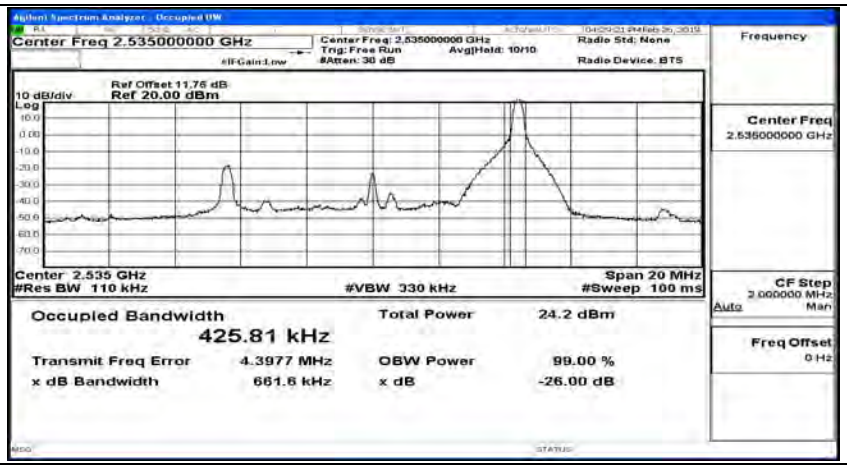
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



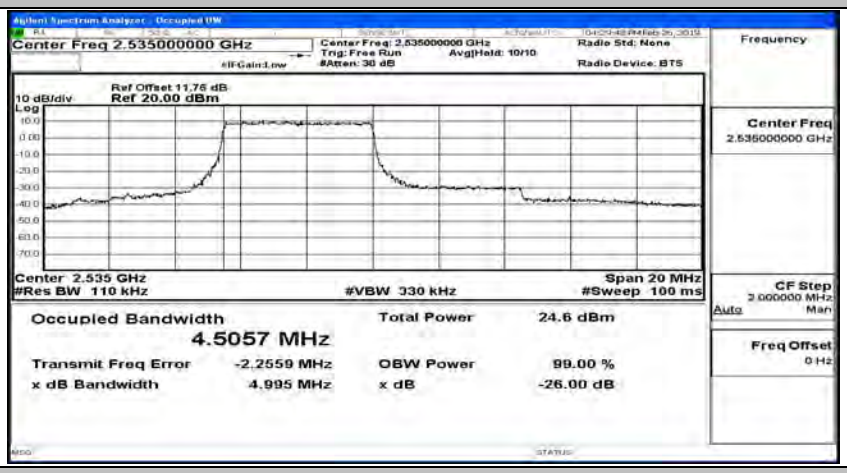
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#25



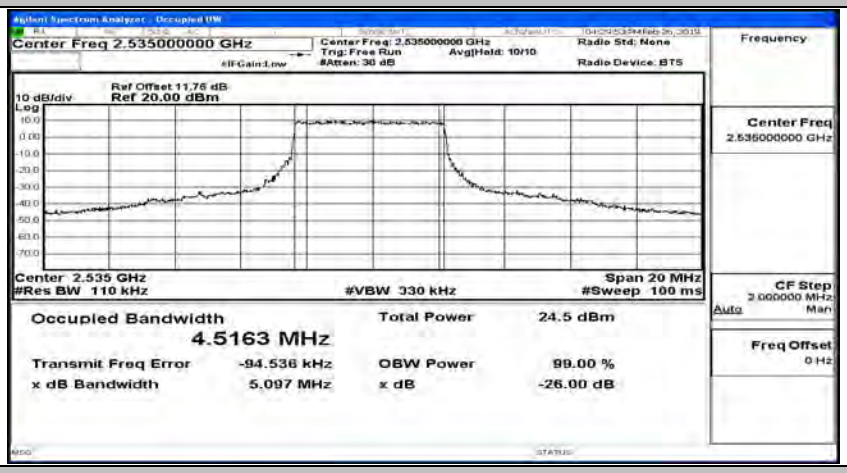
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



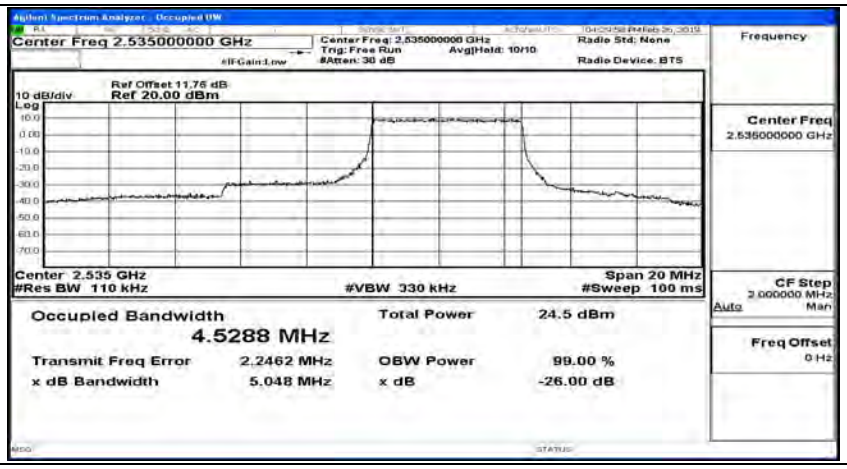
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0



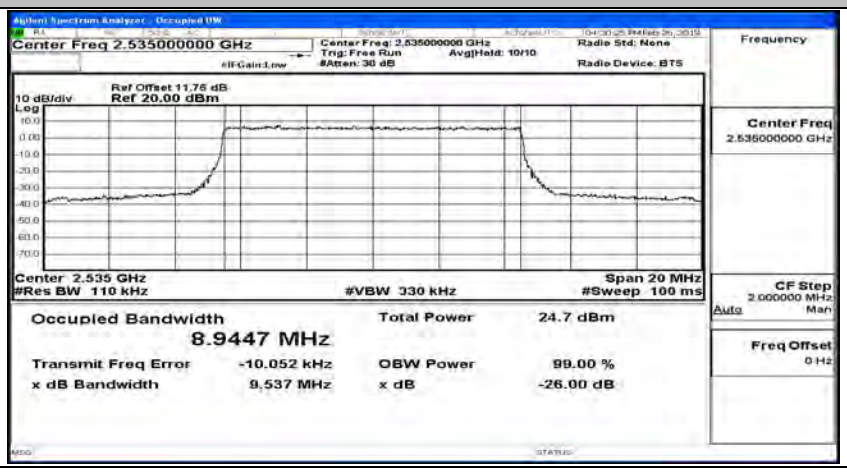
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12



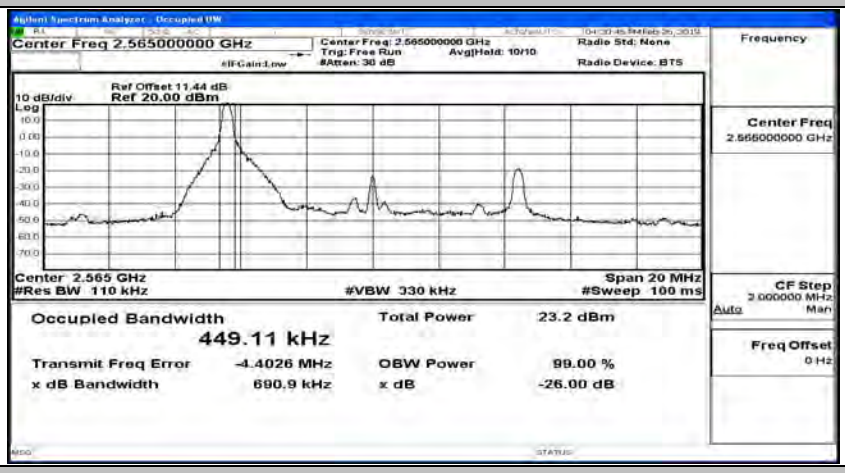
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



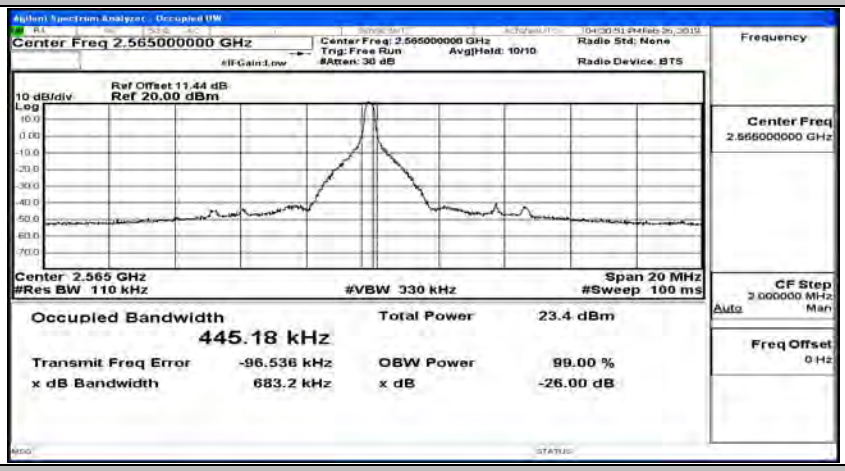
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



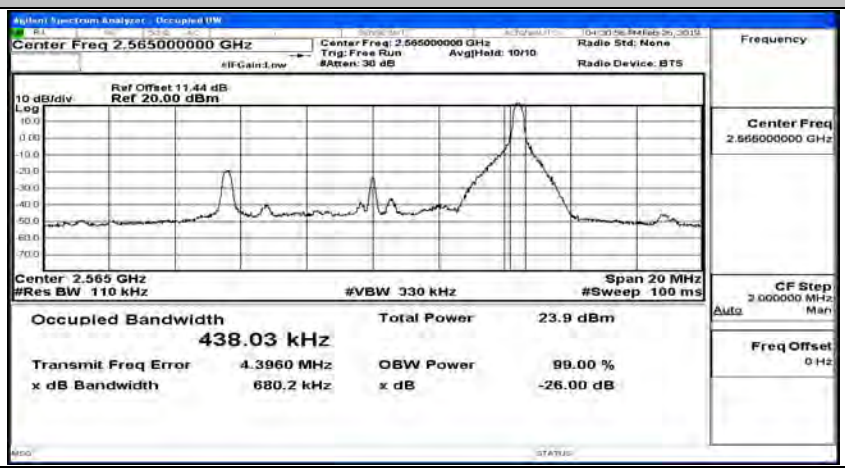
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



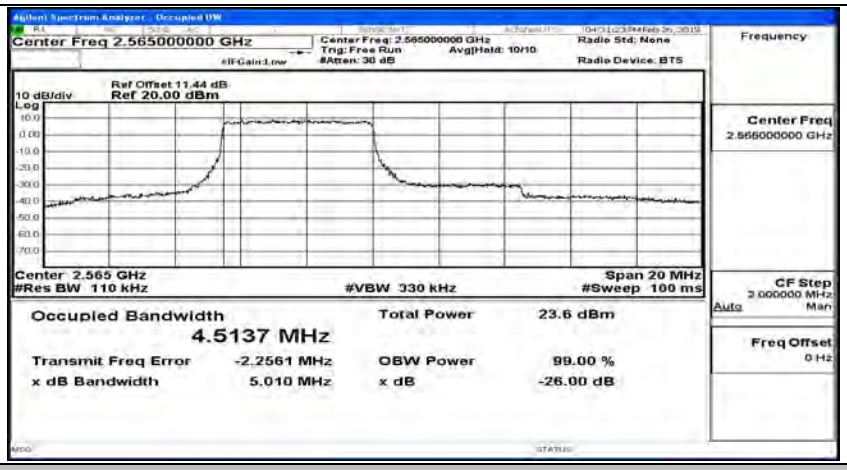
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#25



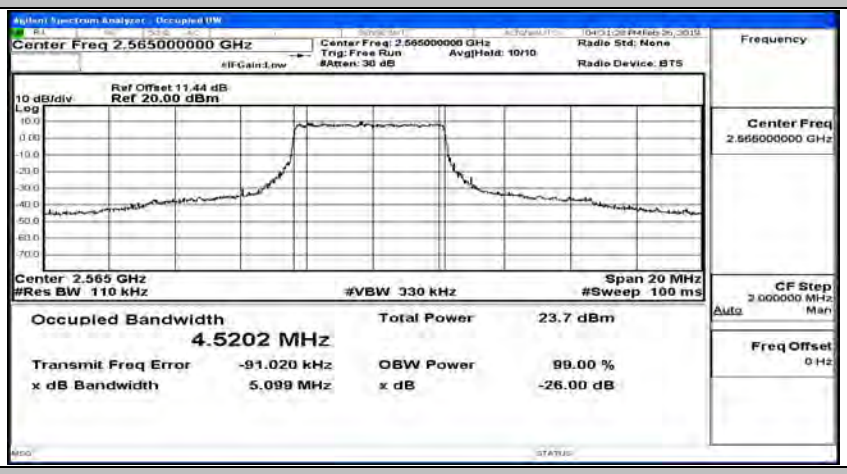
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



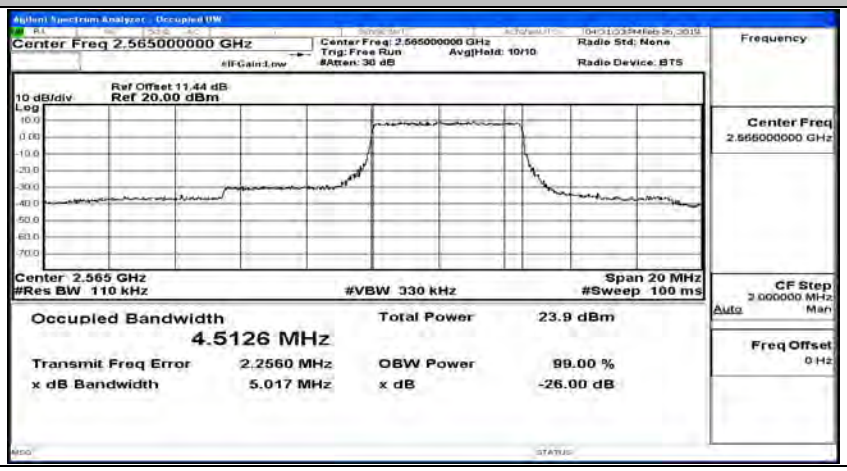
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0



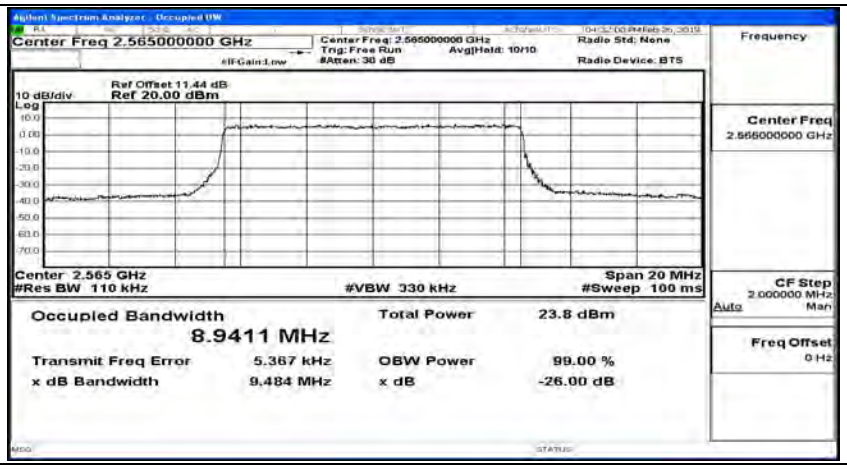
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12



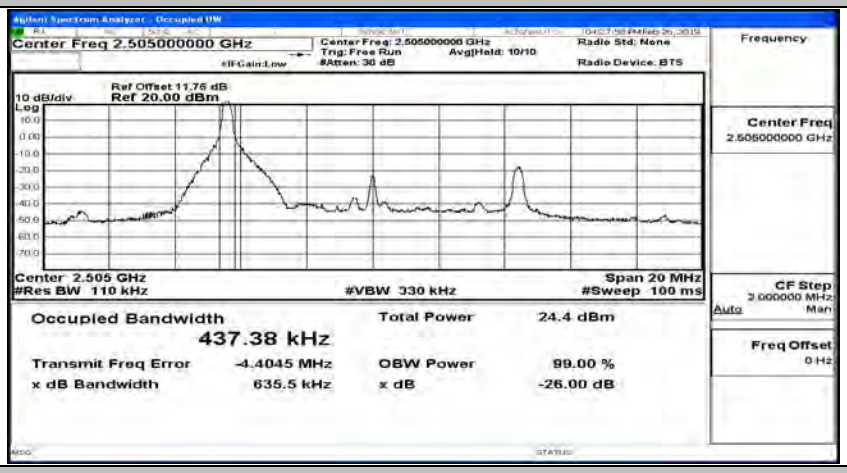
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25



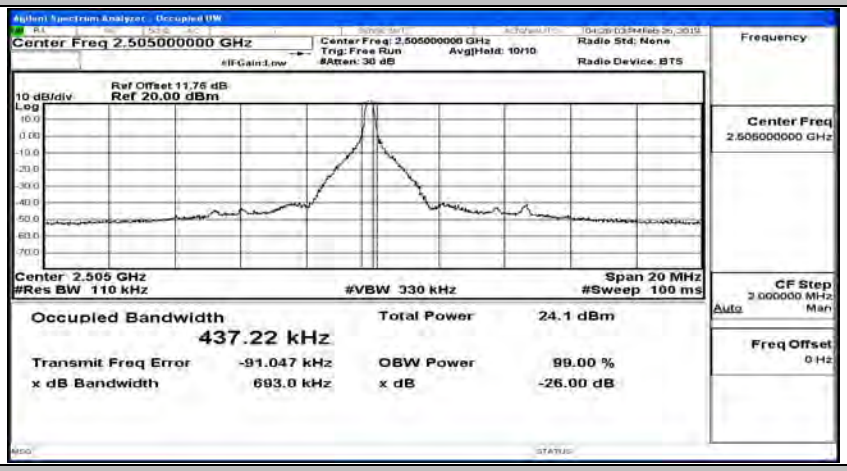
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.565000000 GHz
Center Freq: 2.565000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 11.44 dB
10 dB/div
Ref 20.00 dBm
Log
Center Freq
2.565000000 GHz
Center 2.565 GHz
#Res BW 110 kHz
#VBW 330 kHz
Span 20 MHz
#Sweep 100 ms
CF Step
2.000000 MHz
Auto
Man
Occupied Bandwidth
8.9411 MHz
Total Power
23.8 dBm
Transmit Freq Error
5.367 kHz
OBW Power
99.00 %
x dB Bandwidth
9.484 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

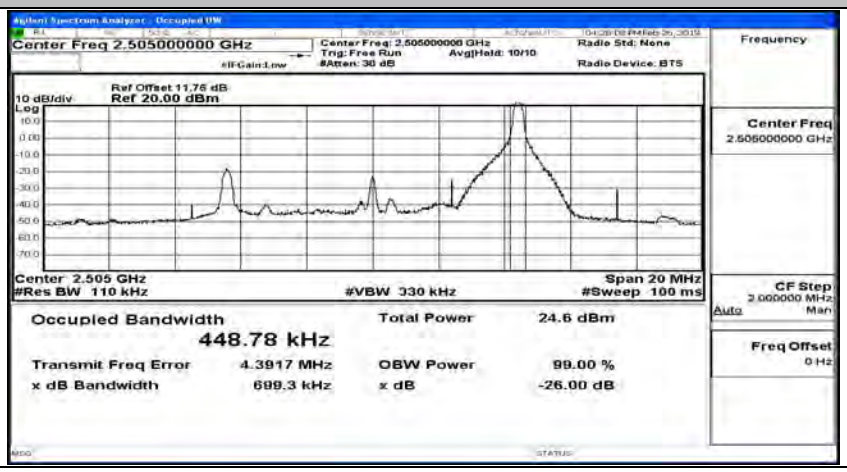
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



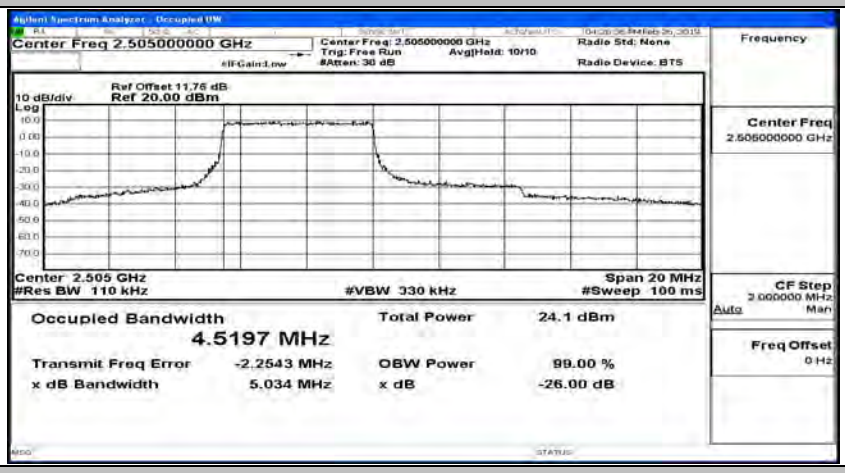
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#25



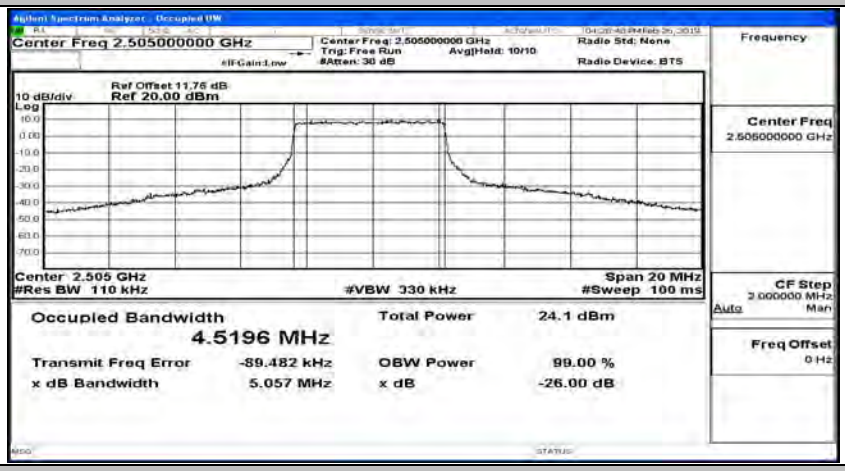
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

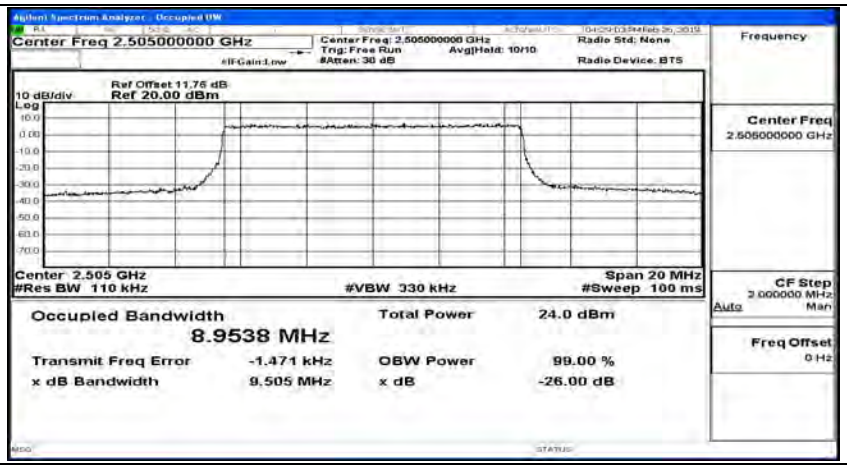


Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12

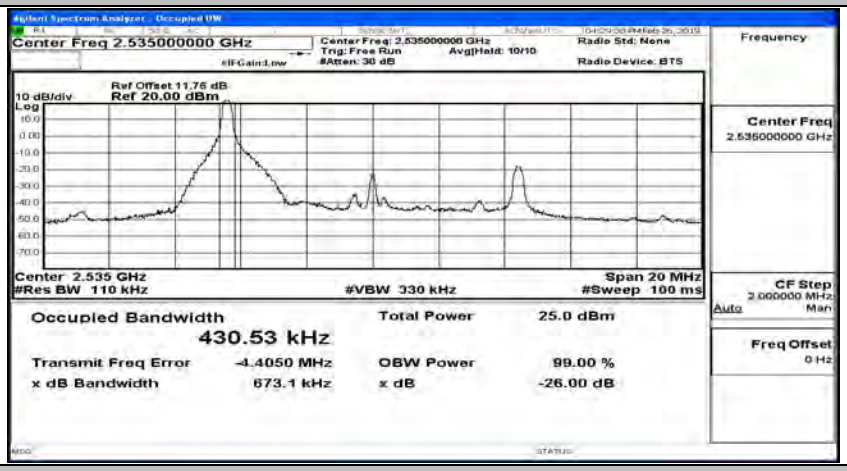


Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

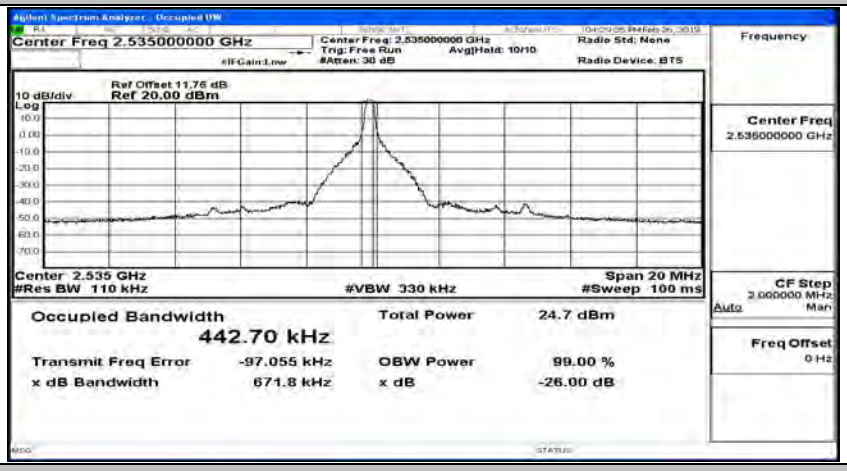
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



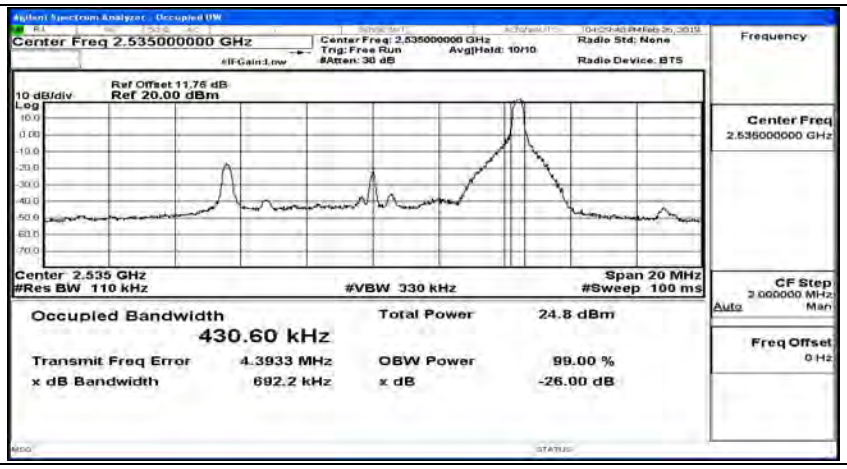
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



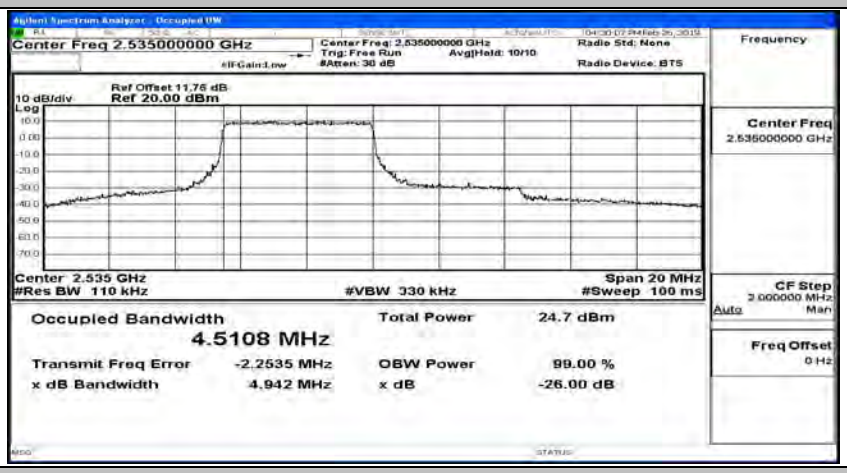
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#25



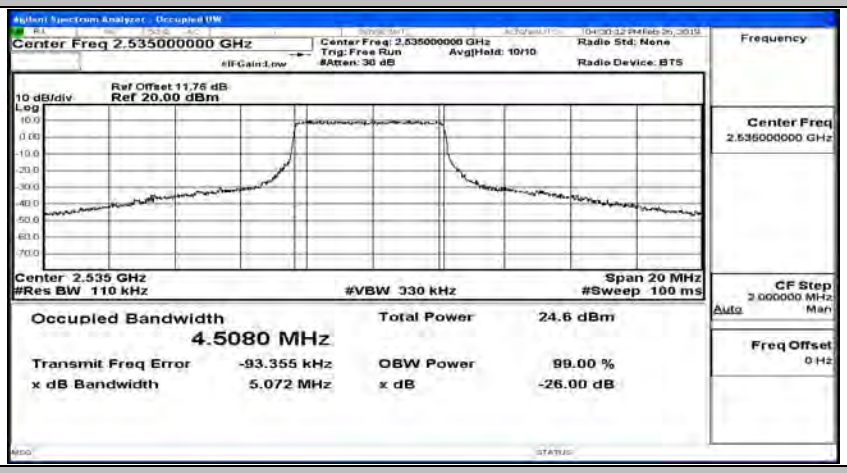
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49



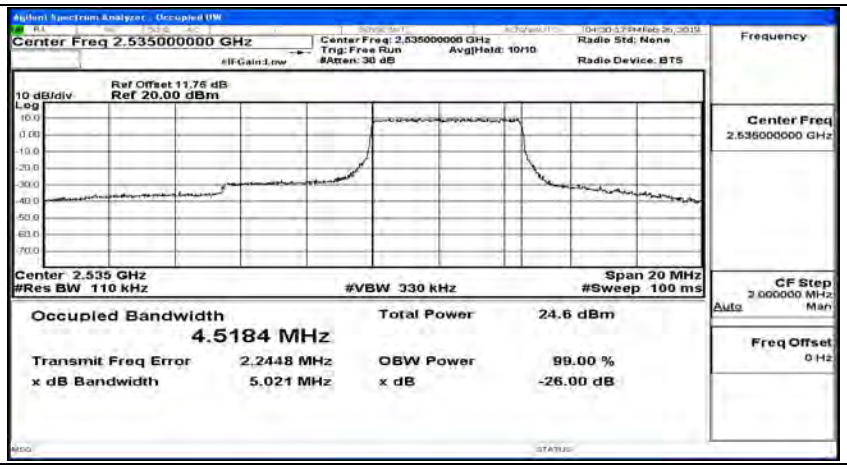
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#



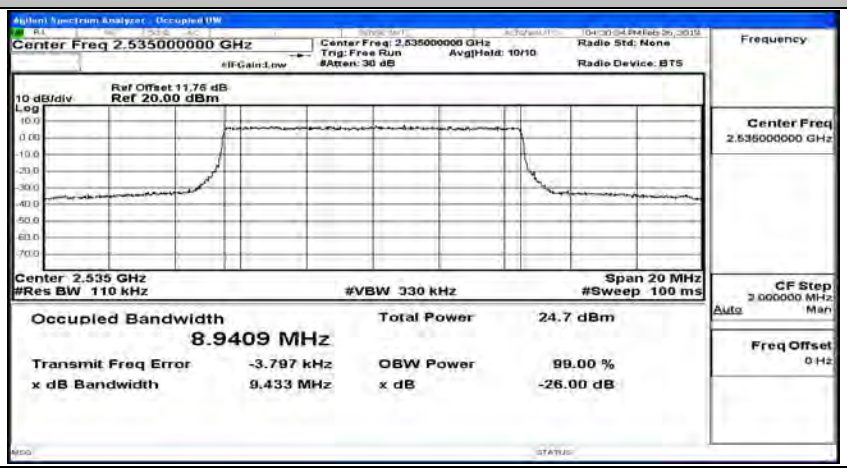
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12



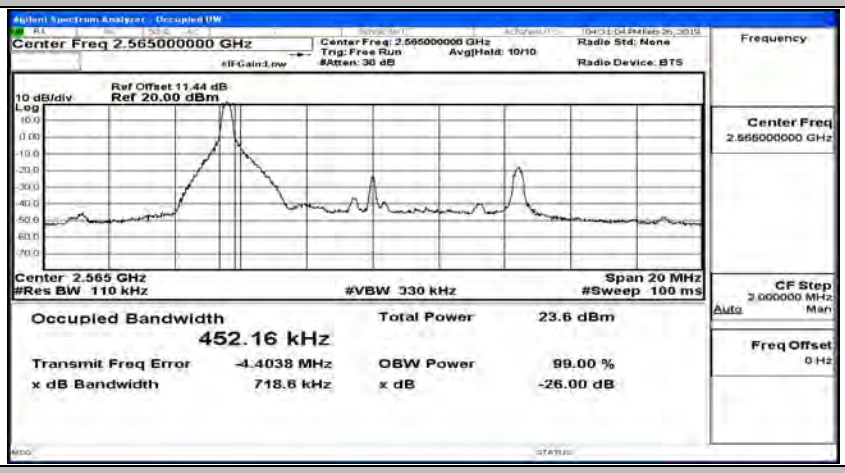
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25



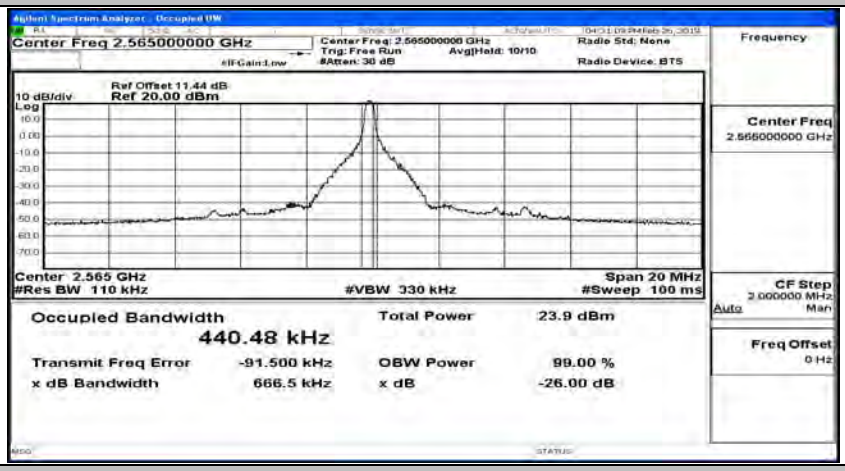
Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



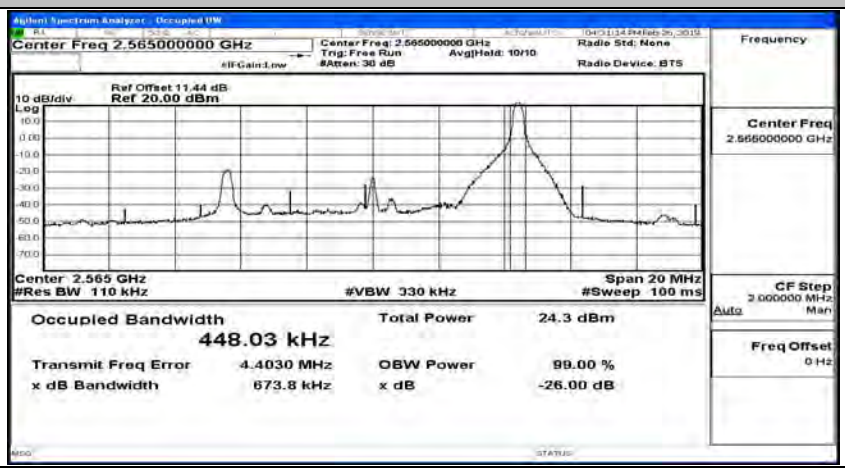
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



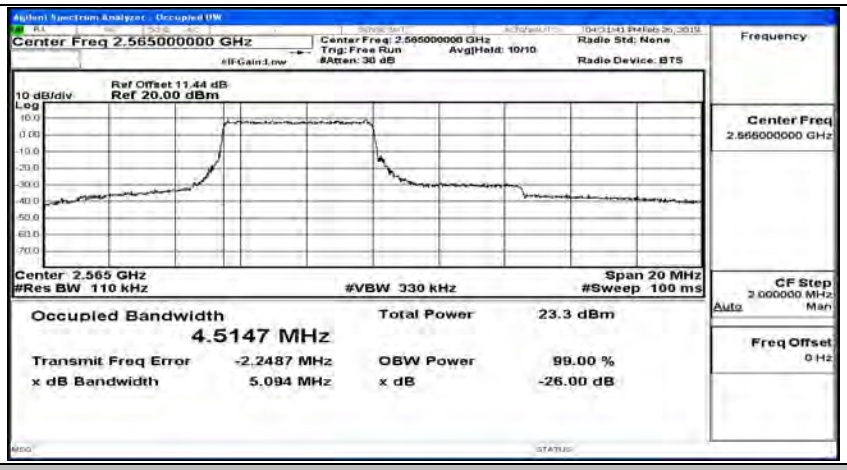
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#25



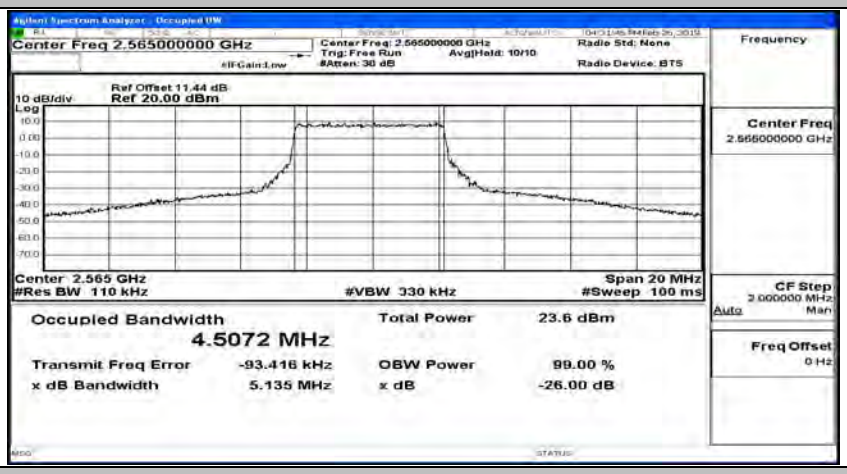
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



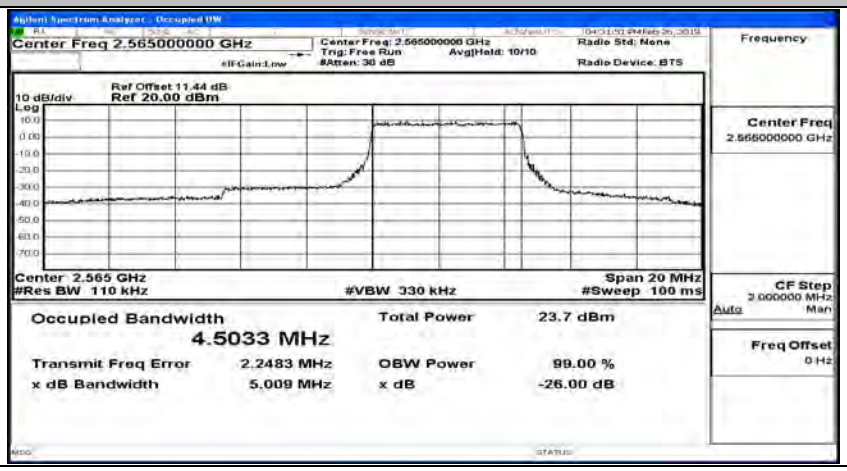
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0



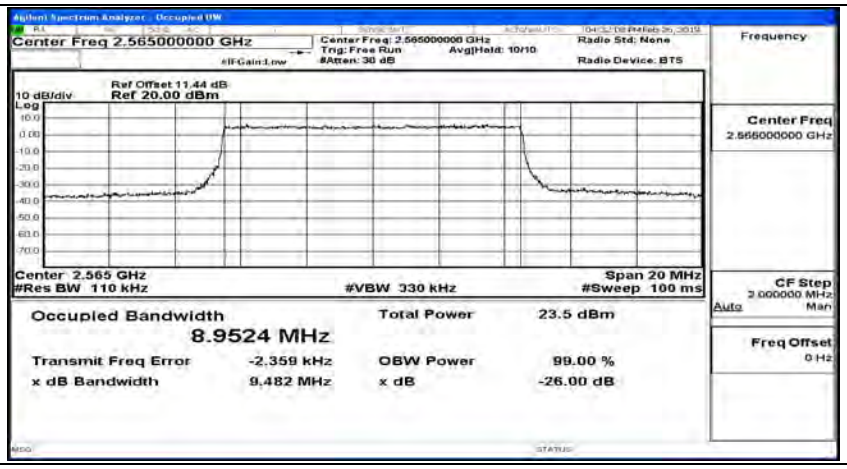
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25



Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.565000000 GHz
Center Freq: 2.565000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 11.44 dB
10 dB/div
Ref 20.00 dBm
Log
Center Freq
2.565000000 GHz
Center 2.565 GHz
#Res BW 110 kHz
#VBW 330 kHz
Span 20 MHz
#Sweep 100 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
8.9524 MHz
Total Power
23.5 dBm
Transmit Freq Error
-2.359 kHz
OBW Power
99.00 %
x dB Bandwidth
9.482 MHz
x dB
-26.00 dB
Freq Offset
0 Hz