Appendix E: Test Data for LTE Band 4

Product Name: 4G PHONE
Trade Mark: KAPSYS
Test Model: MiniVision2

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

E.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.46	22.59	PASS
		1	3	23.37	22.65	PASS
		1	5	23.20	22.52	PASS
		3	0	23.30	22.52	PASS
		3	2	23.23	22.44	PASS
		3	3	23.14	22.34	PASS
		6	0	22.61	21.54	PASS
	MCH	1	0	22.79	22.13	PASS
		1	3	22.77	22.03	PASS
		1	5	22.74	21.94	PASS
		3	0	22.83	22.04	PASS
		3	2	22.82	21.89	PASS
		3	3	22.72	21.70	PASS
		6	0	21.72	20.60	PASS
	HCH	1	0	23.58	22.41	PASS
		1	3	24.09	22.61	PASS
		1	5	23.64	22.54	PASS
		3	0	23.69	22.60	PASS
		3	2	23.86	22.61	PASS
		3	3	23.84	22.36	PASS
		6	0	22.59	21.84	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.23	22.42	PASS
		1	7	22.91	22.31	PASS
		1	14	22.59	21.97	PASS
		8	0	22.81	22.11	PASS
		8	4	22.60	22.01	PASS
		8	7	22.64	21.84	PASS
		15	0	22.76	21.88	PASS
	MCH	1	0	22.86	21.90	PASS
		1	7	23.11	21.84	PASS
		1	14	22.83	21.66	PASS
		8	0	21.83	20.69	PASS
		8	4	21.91	20.57	PASS
		8	7	21.68	20.47	PASS
		15	0	21.70	20.71	PASS
	HCH	1	0	23.53	22.60	PASS
		1	7	23.89	22.96	PASS
		1	14	23.85	23.01	PASS
		8	0	22.52	21.52	PASS
		8	4	22.56	21.59	PASS
		8	7	22.65	21.69	PASS
		15	0	22.50	21.51	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.39	22.32	PASS
		1	12	23.08	21.93	PASS
		1	24	22.66	21.93	PASS
		12	0	22.63	21.68	PASS
		12	6	22.63	21.60	PASS
		12	13	22.58	21.47	PASS
		25	0	22.73	21.86	PASS
	MCH	1	0	22.78	21.62	PASS
		1	12	23.19	21.41	PASS
		1	24	23.39	21.61	PASS
		12	0	21.83	20.83	PASS
		12	6	21.88	20.79	PASS
		12	13	21.72	20.65	PASS
		25	0	21.68	20.81	PASS
	HCH	1	0	23.67	21.71	PASS
		1	12	24.43	22.39	PASS
		1	24	24.03	22.45	PASS
		12	0	22.53	21.46	PASS
		12	6	22.72	21.49	PASS
		12	13	22.74	21.67	PASS
		25	0	22.59	21.76	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.37	21.54	PASS
		1	24	22.45	21.95	PASS
		1	49	22.44	21.83	PASS
		25	0	22.28	21.38	PASS
		25	12	22.42	21.52	PASS
		25	25	22.43	21.56	PASS
		50	0	22.34	21.47	PASS
	MCH	1	0	22.19	21.56	PASS
		1	24	23.10	22.49	PASS
		1	49	22.58	22.08	PASS
		25	0	21.84	20.88	PASS
		25	12	21.92	20.85	PASS
		25	25	21.69	20.78	PASS
		50	0	21.73	20.81	PASS
	HCH	1	0	22.67	21.99	PASS
		1	24	23.75	23.12	PASS
		1	49	24.00	23.36	PASS
		25	0	22.37	21.30	PASS
		25	12	22.60	21.60	PASS
		25	25	22.69	21.75	PASS
		50	0	22.41	21.48	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.24	21.53	PASS
		1	37	22.97	22.36	PASS
		1	74	22.83	22.19	PASS
		37	0	22.28	21.37	PASS
		37	18	22.79	21.89	PASS
		37	38	23.13	22.11	PASS
		75	0	22.66	21.79	PASS
	MCH	1	0	22.36	21.83	PASS
		1	37	22.94	22.39	PASS
		1	74	23.01	22.68	PASS
		37	0	22.02	21.18	PASS
		37	18	21.95	20.94	PASS
		37	38	21.68	20.76	PASS
		75	0	21.89	21.02	PASS
	HCH	1	0	23.08	21.76	PASS
		1	37	23.17	22.46	PASS
		1	74	23.69	23.03	PASS
		37	0	22.03	21.09	PASS
		37	18	22.40	21.46	PASS
		37	38	22.69	21.80	PASS
		75	0	22.42	21.43	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.80	20.97	PASS
		1	49	23.49	22.71	PASS
		1	99	21.66	20.84	PASS
		50	0	22.23	21.30	PASS
		50	25	23.09	22.17	PASS
		50	50	22.61	21.53	PASS
		100	0	22.57	21.65	PASS
	MCH	1	0	22.54	21.50	PASS
		1	49	21.94	20.83	PASS
		1	99	22.74	21.22	PASS
		50	0	22.23	21.25	PASS
		50	25	21.99	21.00	PASS
		50	50	21.77	20.87	PASS
		100	0	22.00	20.91	PASS
	HCH	1	0	22.72	21.53	PASS
		1	49	23.16	22.03	PASS
		1	99	23.34	22.64	PASS
		50	0	21.87	20.94	PASS
		50	25	22.14	21.13	PASS
		50	50	22.49	21.39	PASS
		100	0	22.13	21.17	PASS

E.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.12	<13	PASS
	MCH	5.27	<13	PASS
	HCH	5.18	<13	PASS
16QAM	LCH	5.95	<13	PASS
	MCH	6.09	<13	PASS
	HCH	5.95	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.25	<13	PASS
	MCH	5.31	<13	PASS
	HCH	5.23	<13	PASS
16QAM	LCH	6.16	<13	PASS
	MCH	6.11	<13	PASS
	HCH	6.08	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.5	<13	PASS
	MCH	5.29	<13	PASS
	HCH	5.23	<13	PASS
16QAM	LCH	6.17	<13	PASS
	MCH	6.07	<13	PASS
	HCH	8.38	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.46	<13	PASS
	MCH	5.3	<13	PASS
	HCH	5.28	<13	PASS
16QAM	LCH	6.21	<13	PASS
	MCH	5.99	<13	PASS
	HCH	6.02	<13	PASS

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Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.14	<13	PASS
	MCH	4.97	<13	PASS
	HCH	5.03	<13	PASS
16QAM	LCH	6.23	<13	PASS
	MCH	6.24	<13	PASS
	HCH	6.22	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.79	<13	PASS
	MCH	5.73	<13	PASS
	HCH	5.82	<13	PASS
16QAM	LCH	7	<13	PASS
	MCH	6.74	<13	PASS
	HCH	6.69	<13	PASS

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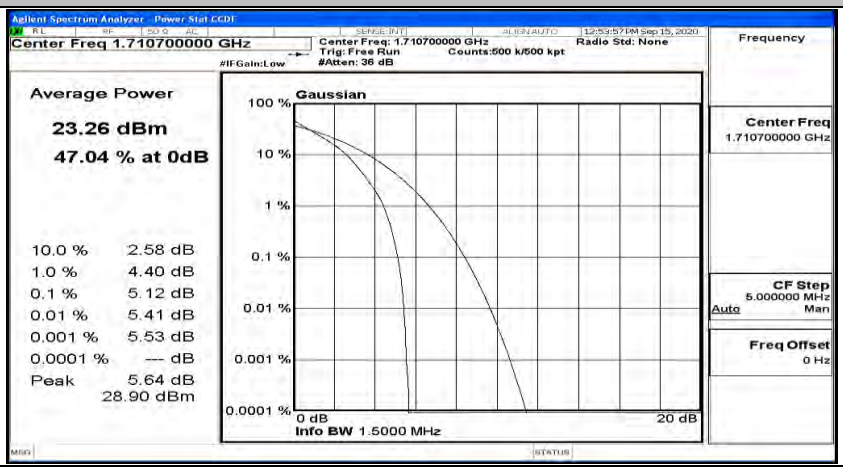
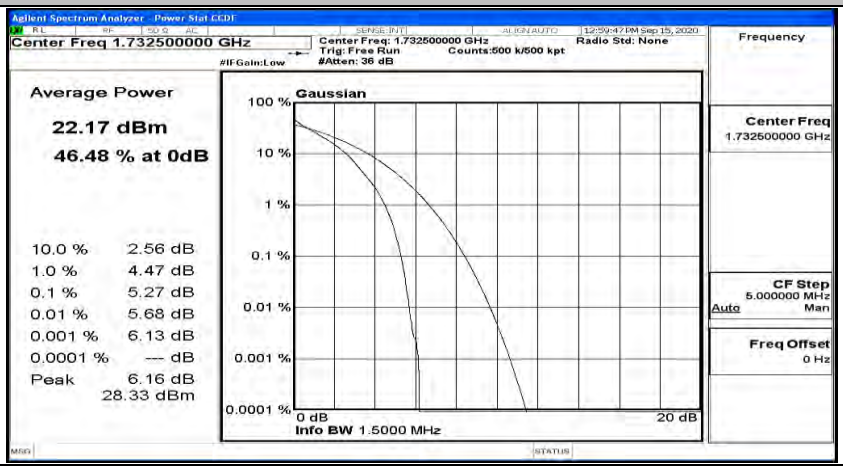
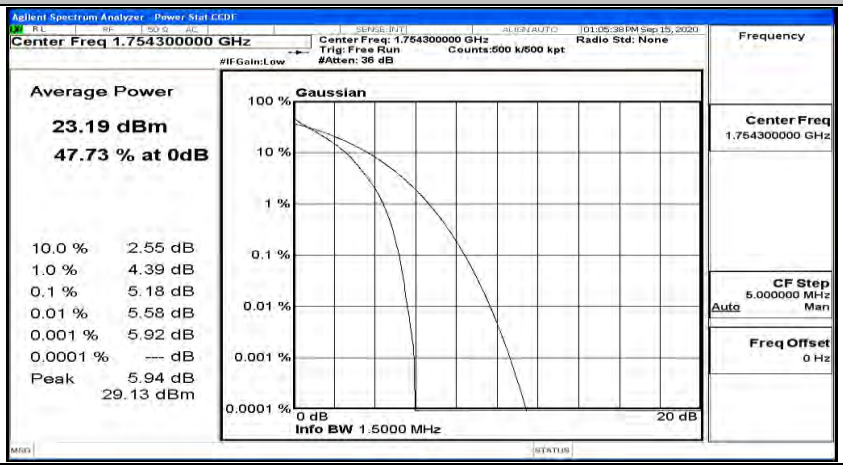
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



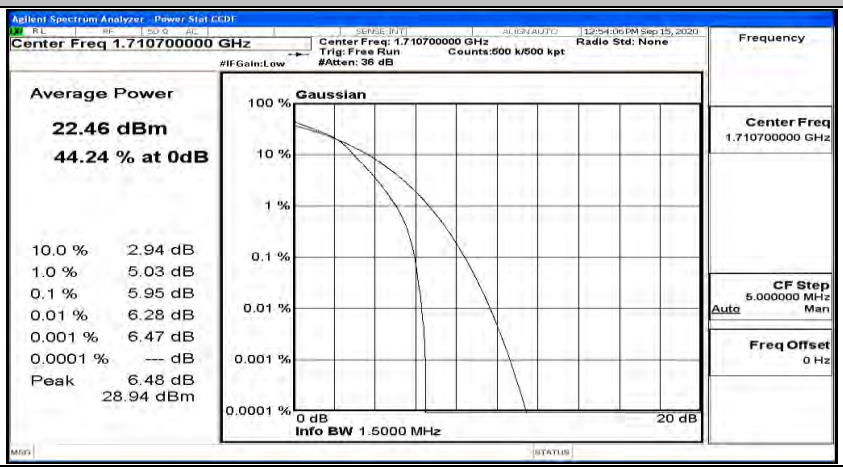
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



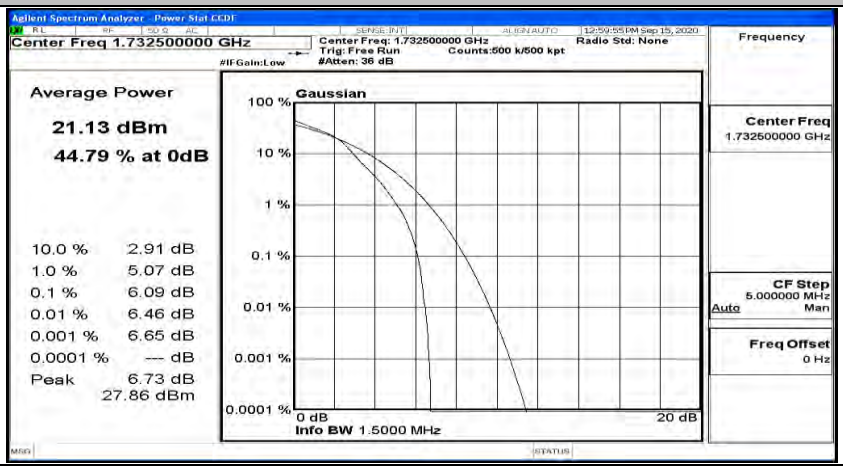
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



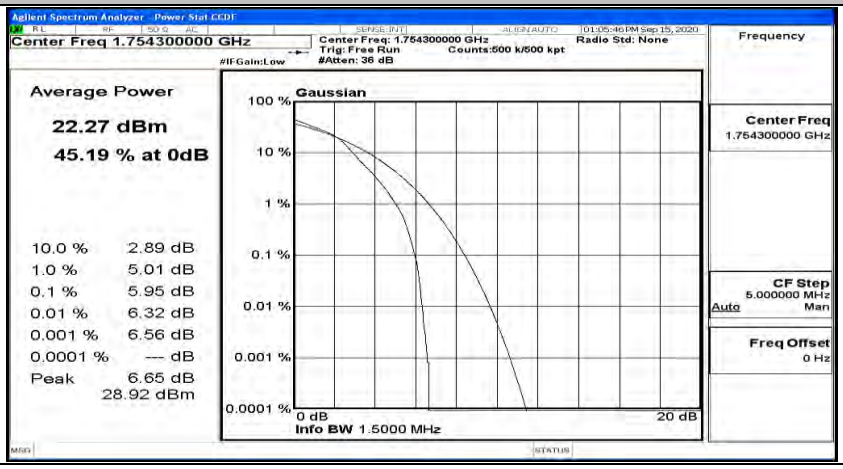
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



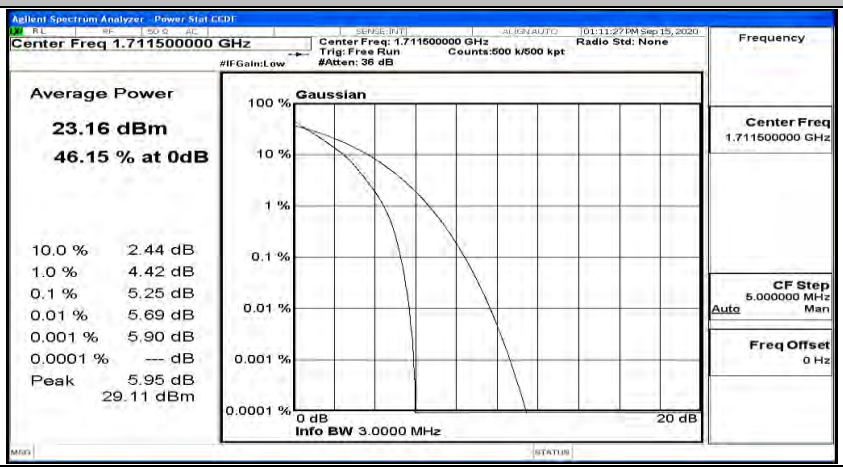
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



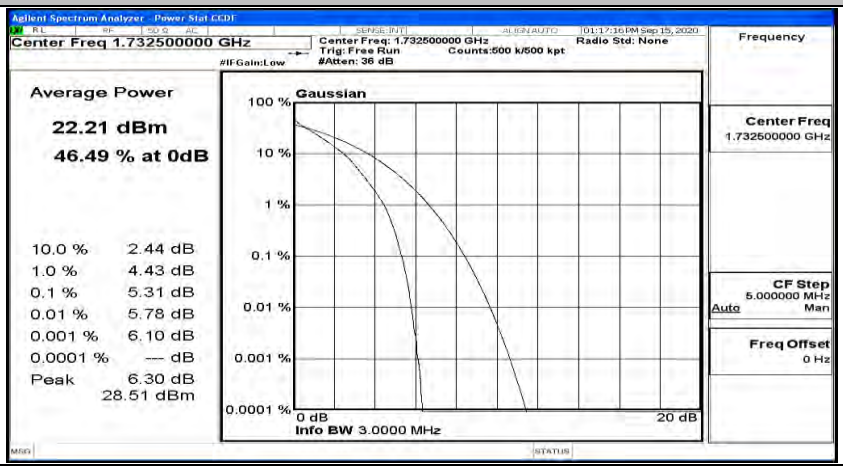
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



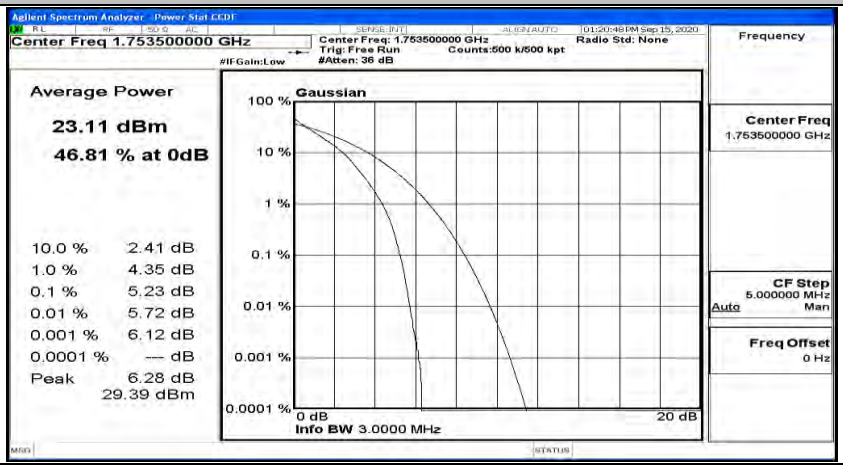
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



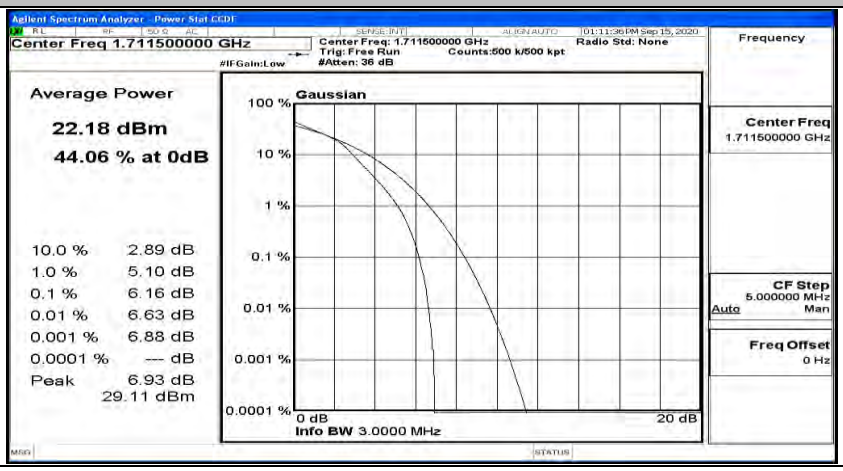
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



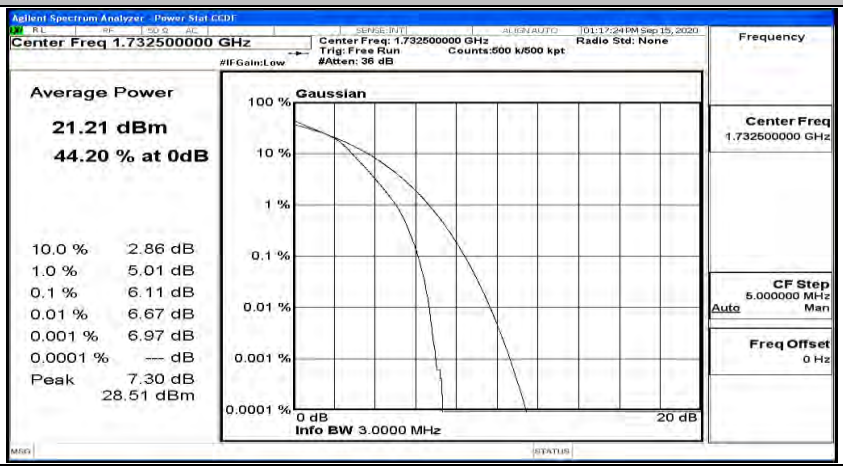
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



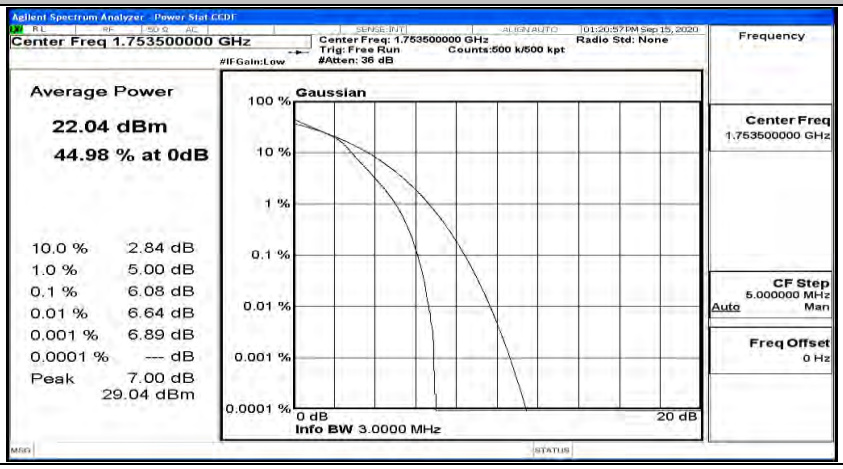
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



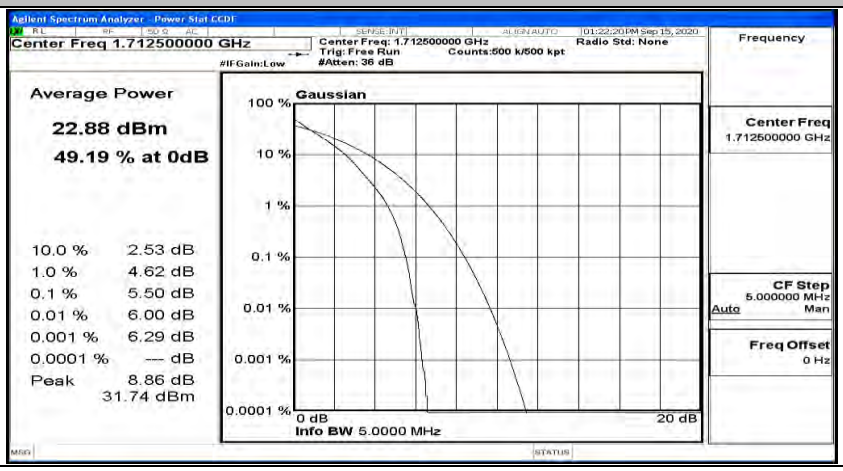
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



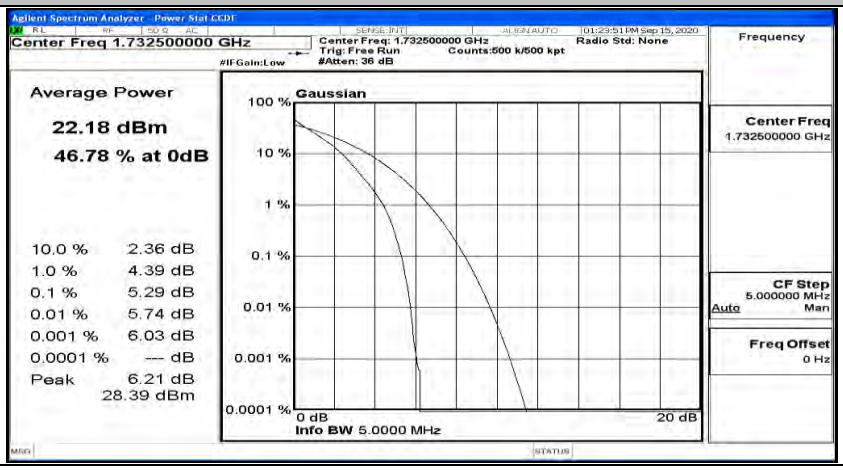
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



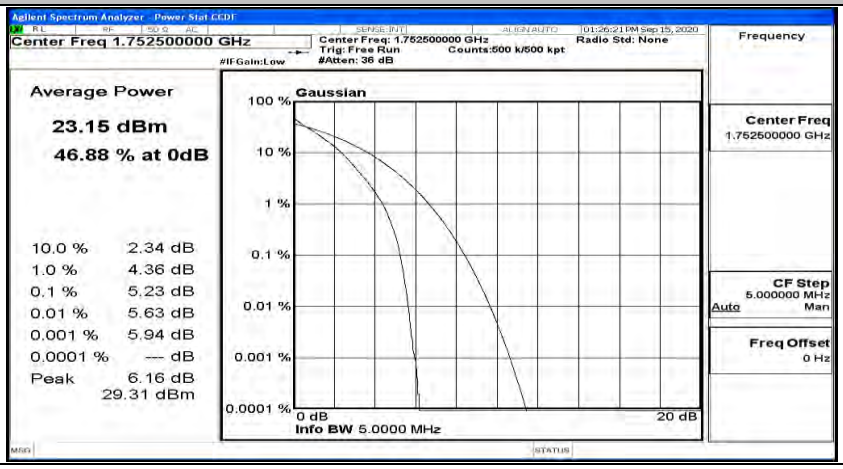
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



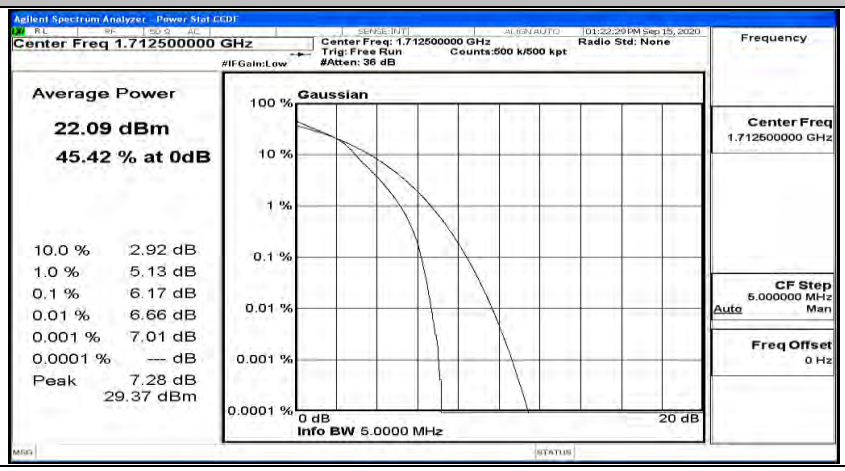
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



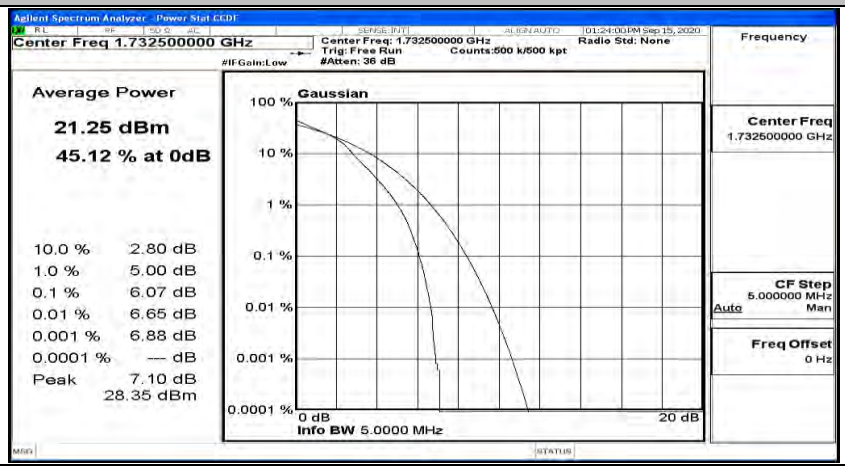
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



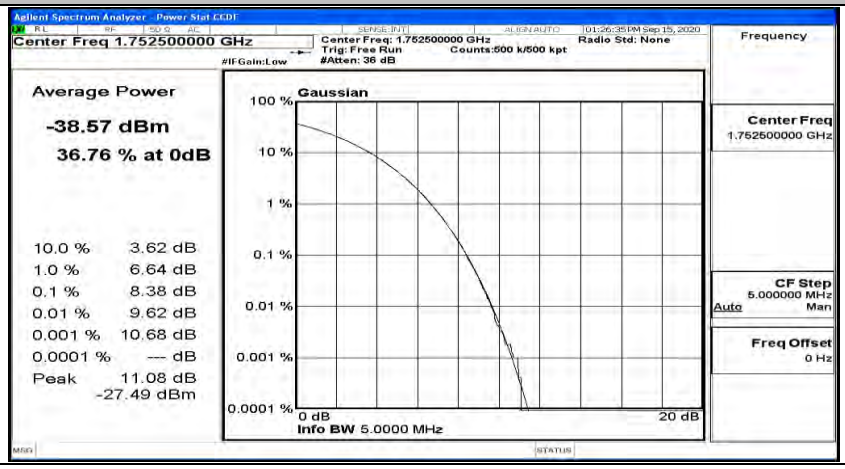
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



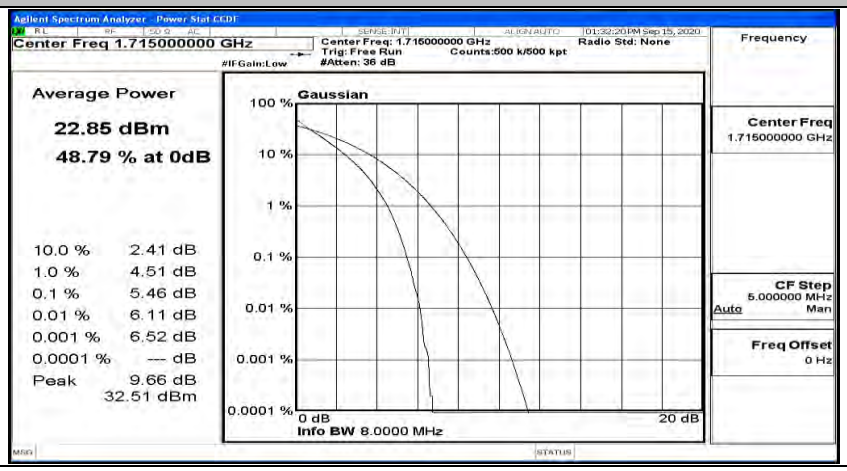
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



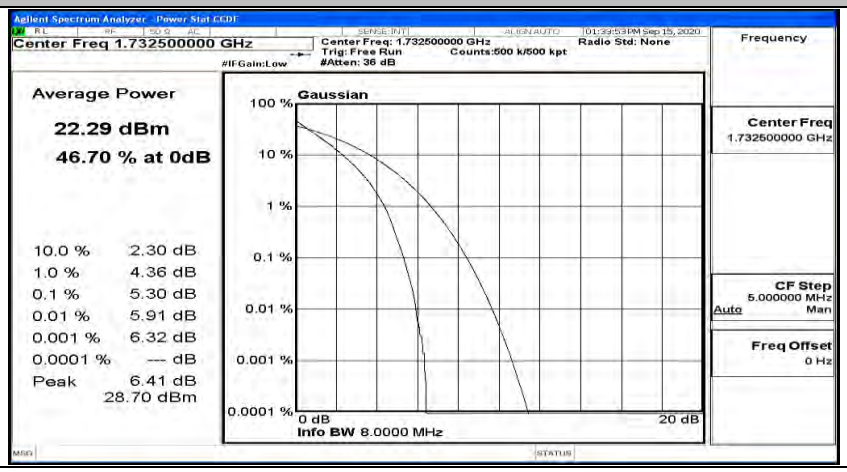
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



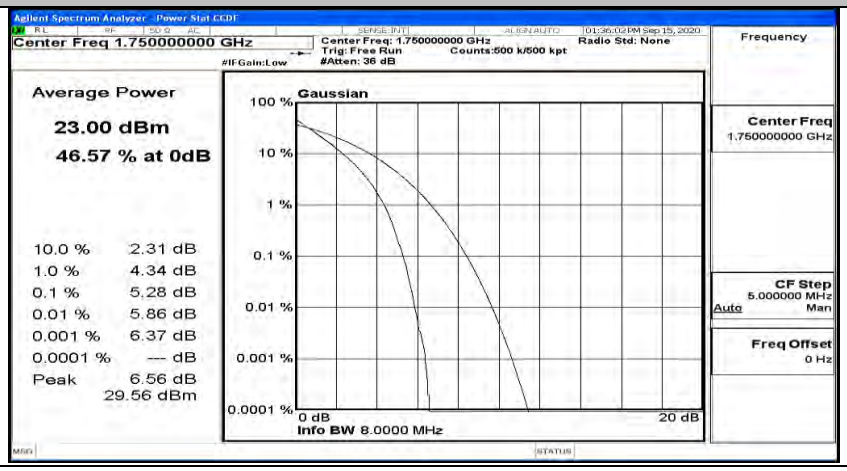
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



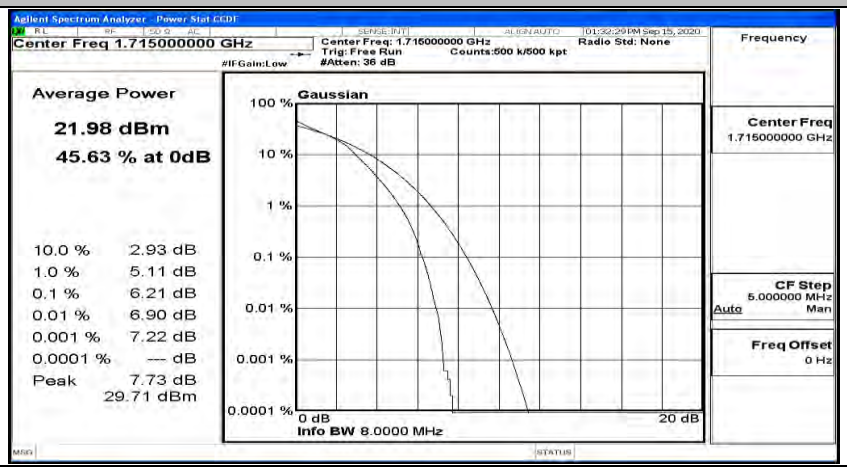
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



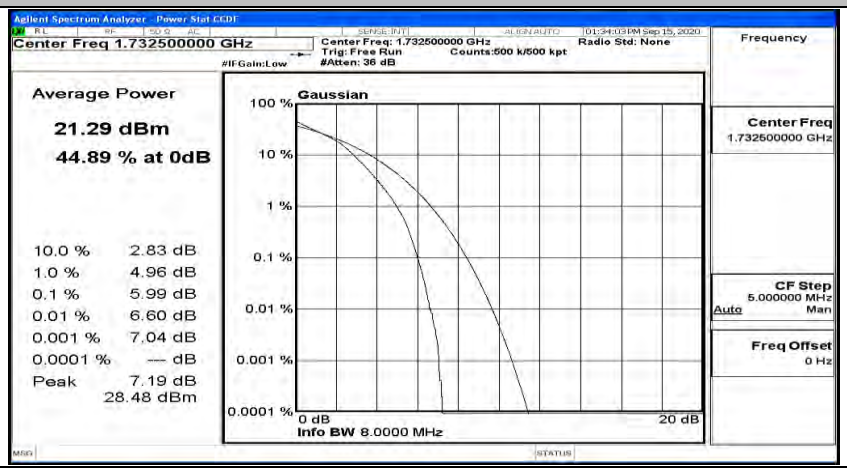
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



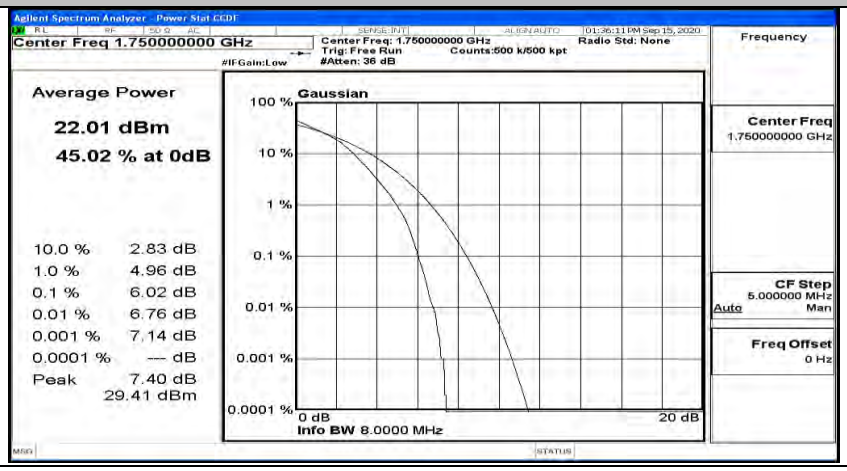
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



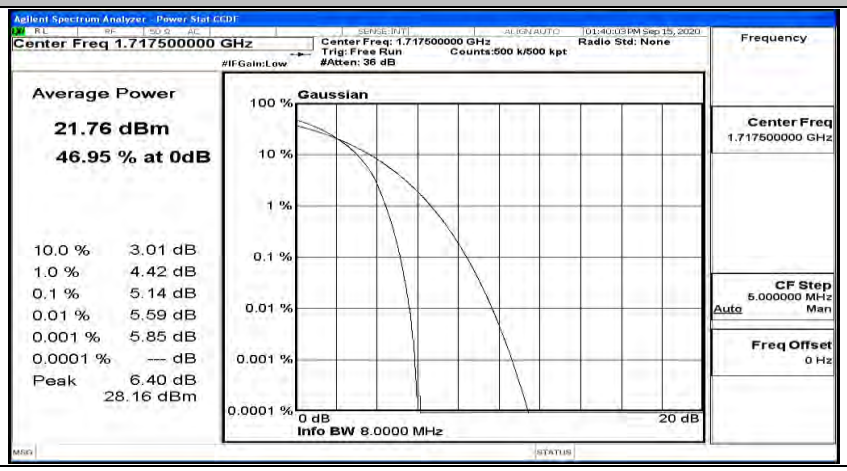
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



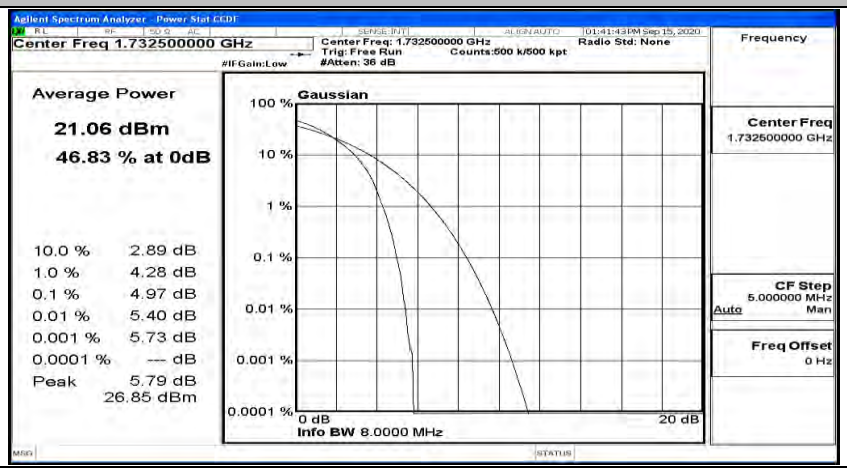
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



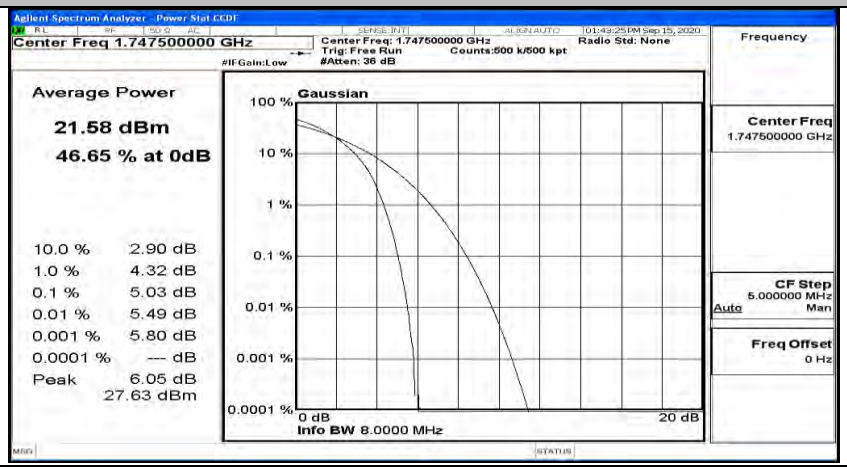
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



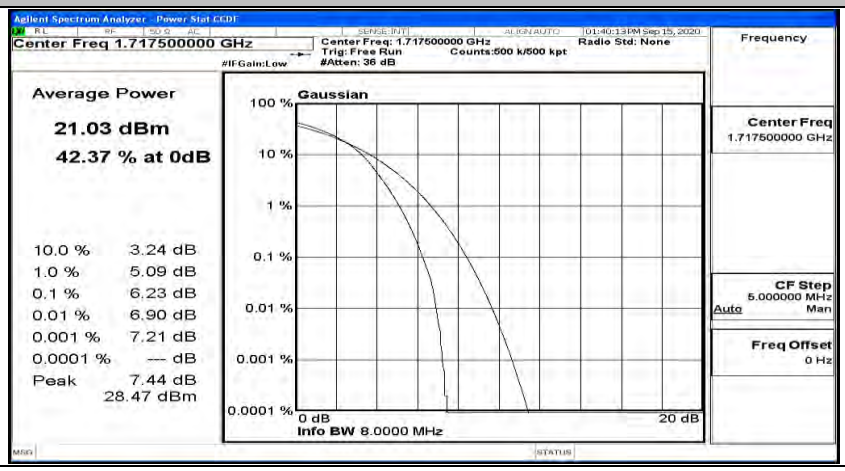
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



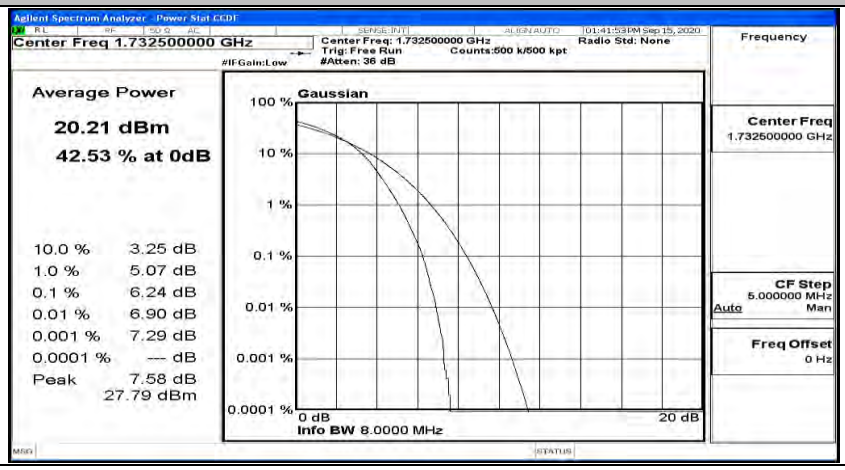
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



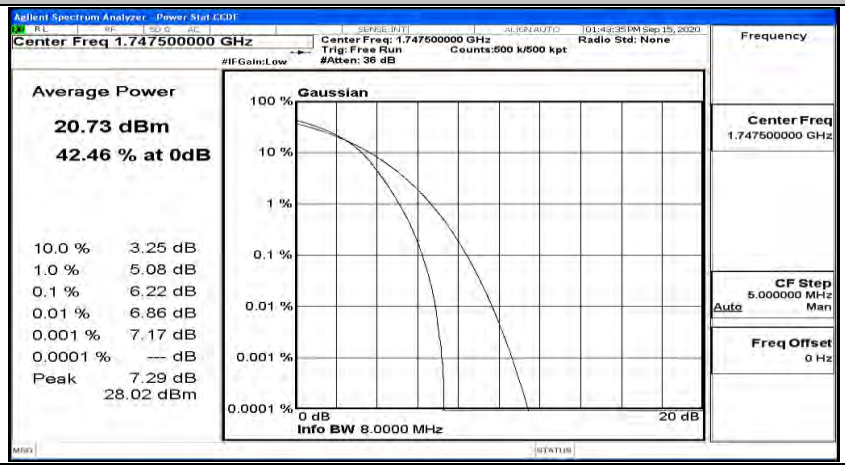
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



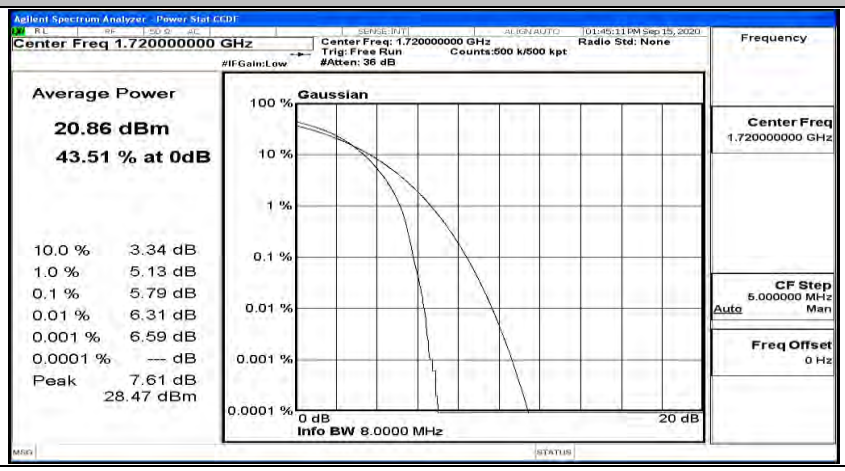
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



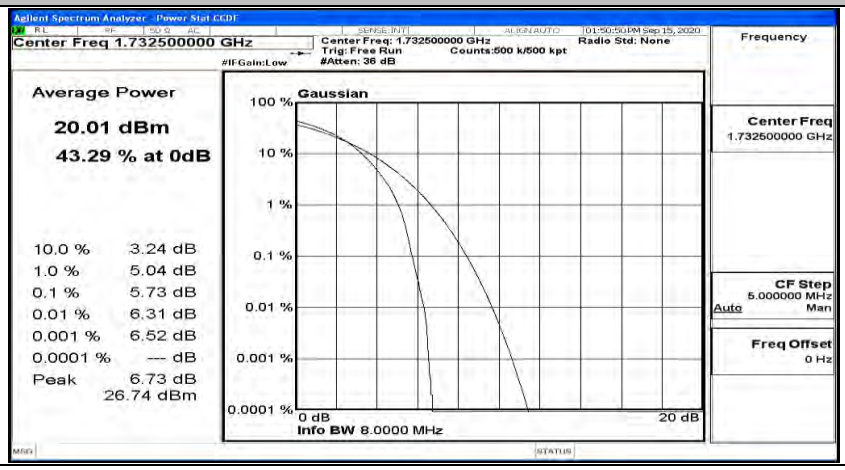
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



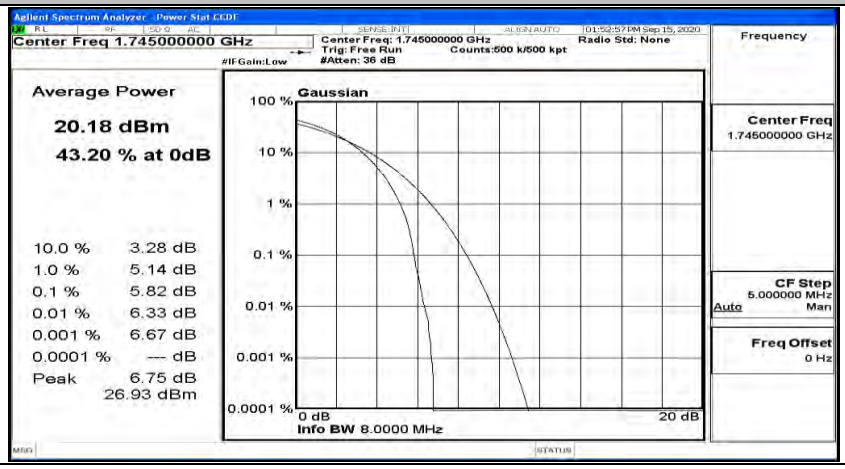
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



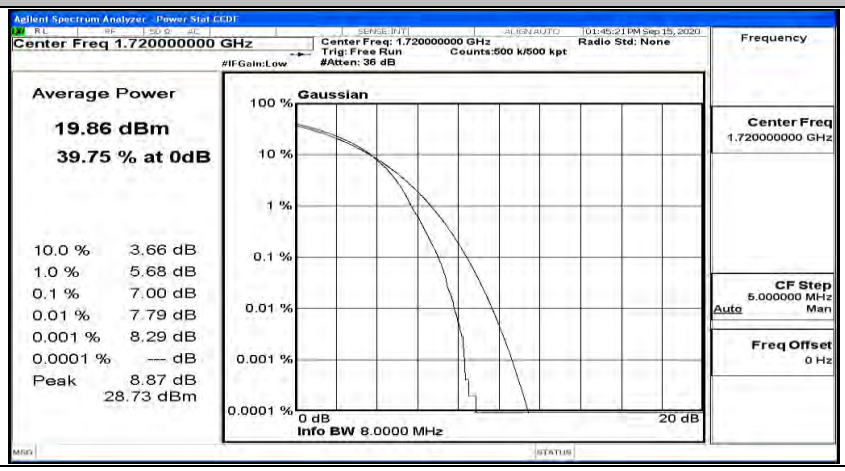
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



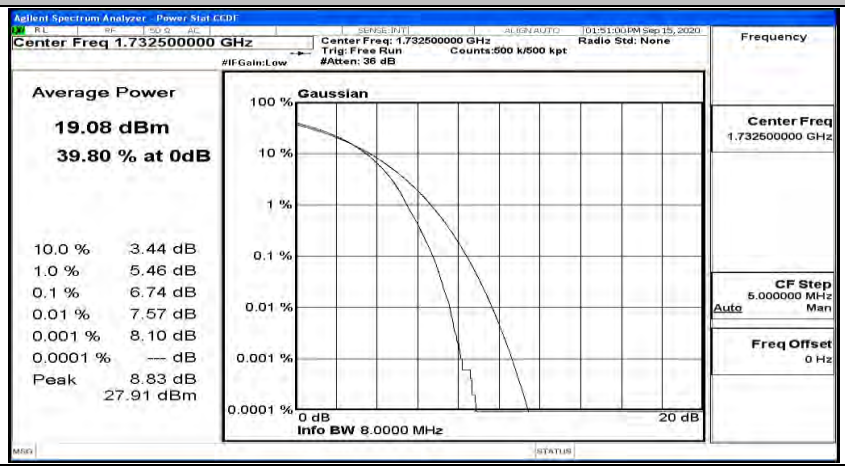
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



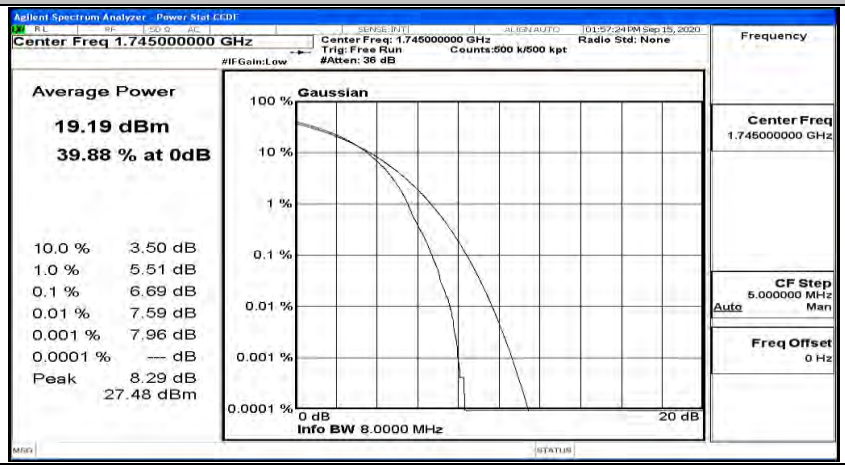
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



E.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0782	1.222	PASS
	MCH	1.0763	1.213	PASS
	HCH	1.0775	1.216	PASS
16QAM	LCH	1.0816	1.219	PASS
	MCH	1.0783	1.224	PASS
	HCH	1.0804	1.232	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6879	2.891	PASS
	MCH	2.6804	2.938	PASS
	HCH	2.6860	2.965	PASS
16QAM	LCH	2.6850	2.851	PASS
	MCH	2.6861	2.947	PASS
	HCH	2.6841	2.951	PASS

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4801	4.801	PASS
	MCH	4.4670	4.833	PASS
	HCH	4.4740	4.872	PASS
16QAM	LCH	4.4728	4.841	PASS
	MCH	4.4627	4.816	PASS
	HCH	4.4749	4.819	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9348	9.506	PASS
	MCH	8.9249	9.420	PASS
	HCH	8.9182	9.462	PASS
16QAM	LCH	8.9297	9.520	PASS
	MCH	8.9141	9.462	PASS
	HCH	8.9218	9.482	PASS

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EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.385	14.01	PASS
	MCH	13.370	14.14	PASS
	HCH	13.365	13.99	PASS
16QAM	LCH	13.354	13.97	PASS
	MCH	13.377	14.09	PASS
	HCH	13.392	14.07	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.874	18.72	PASS
	MCH	17.830	18.57	PASS
	HCH	17.890	18.74	PASS
16QAM	LCH	17.857	18.71	PASS
	MCH	17.818	18.63	PASS
	HCH	17.889	18.76	PASS

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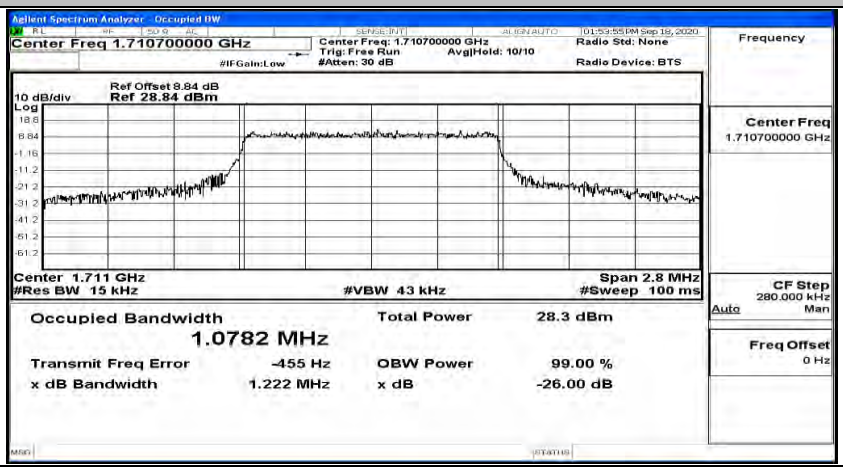
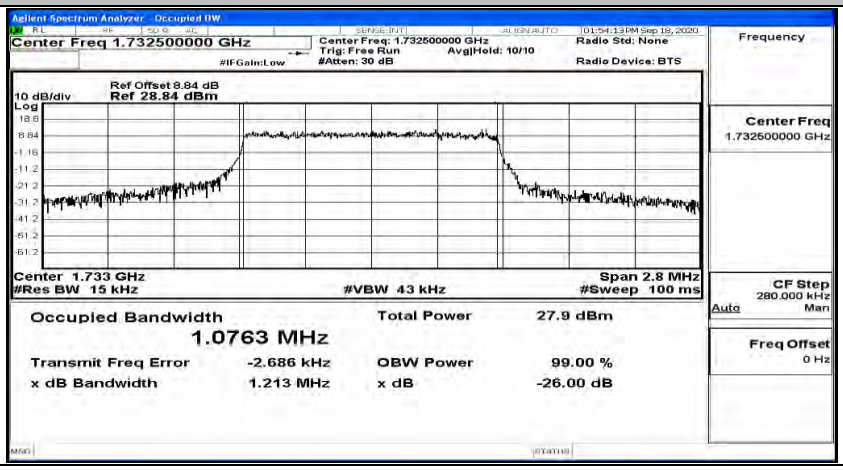
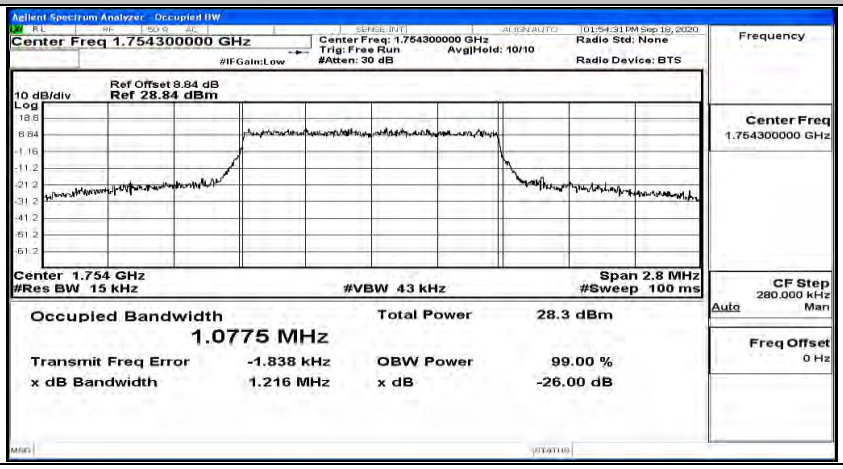
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



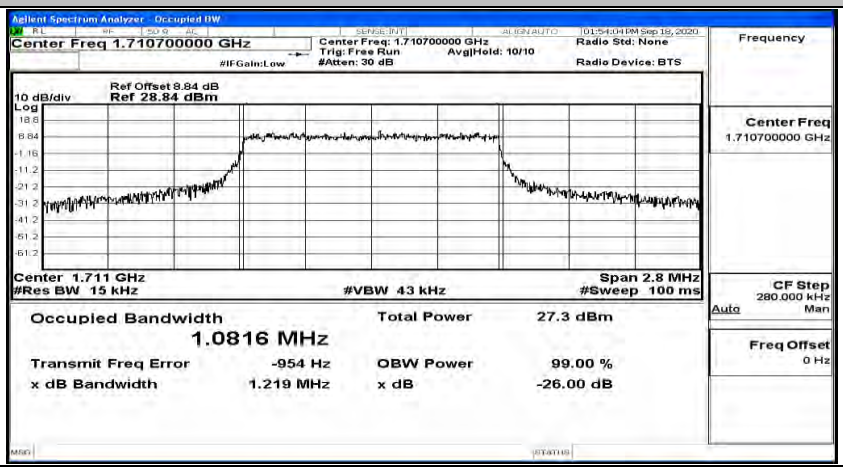
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



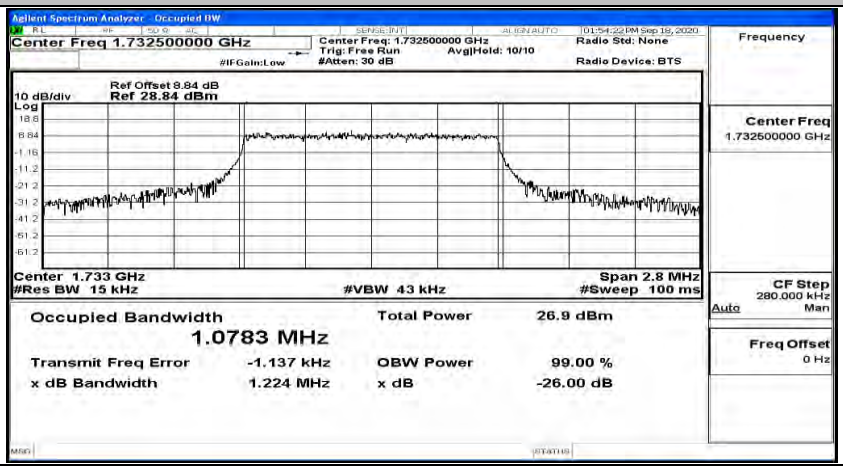
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



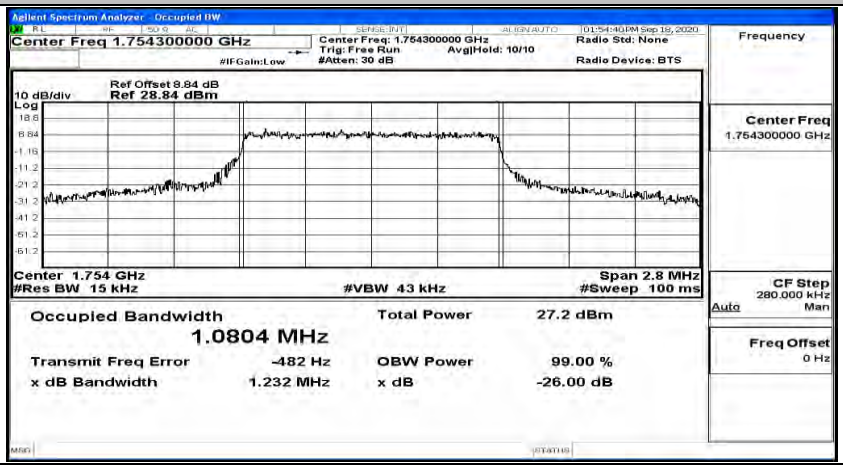
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



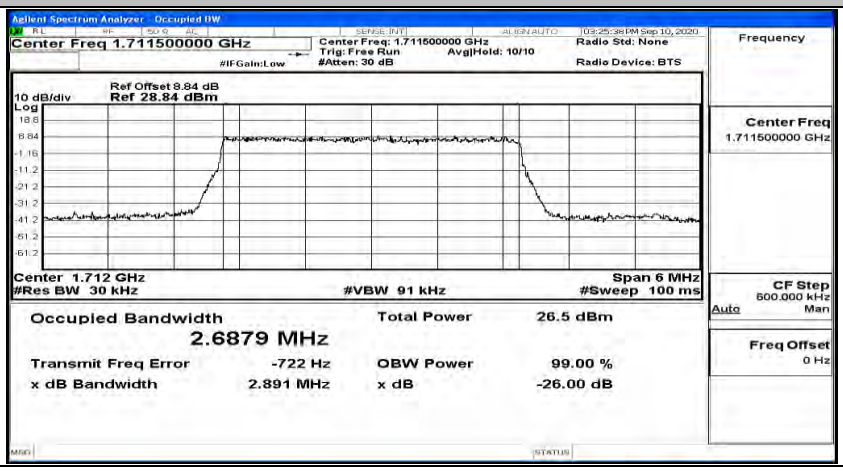
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



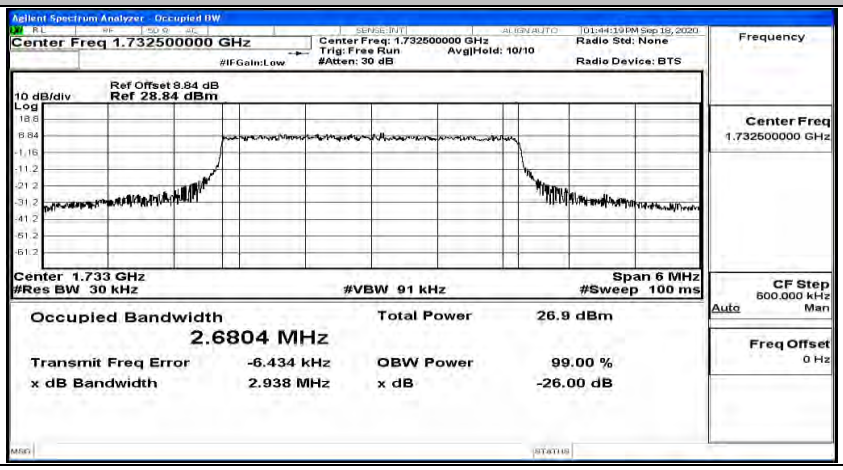
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



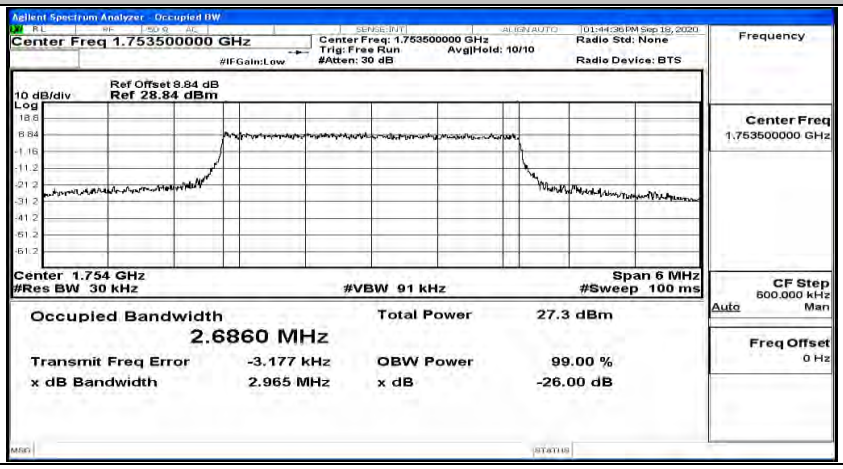
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



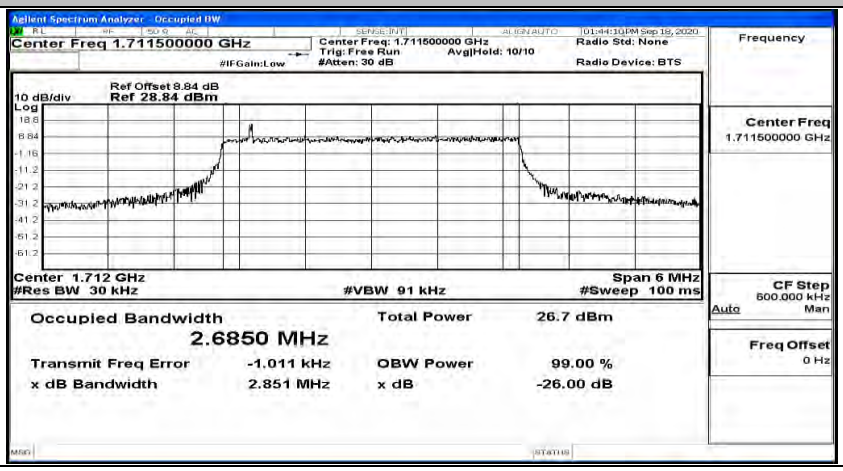
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



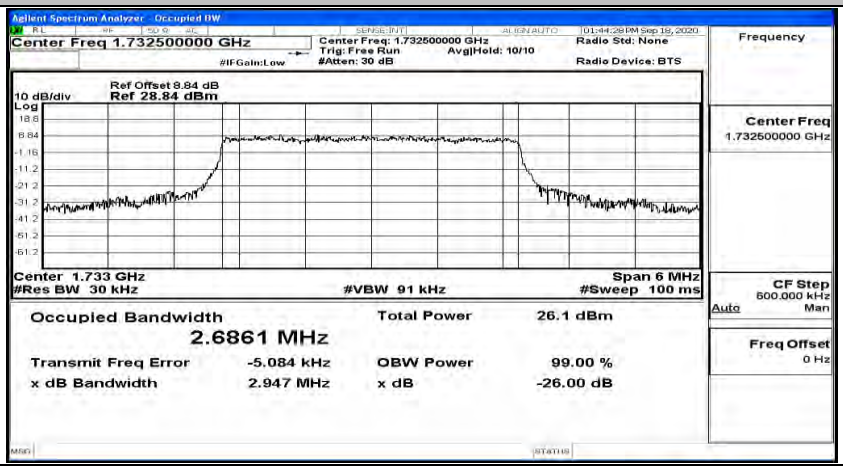
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



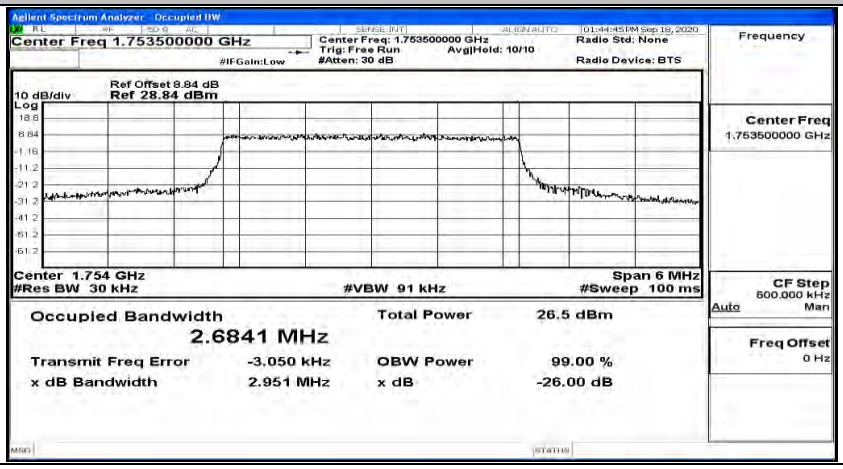
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



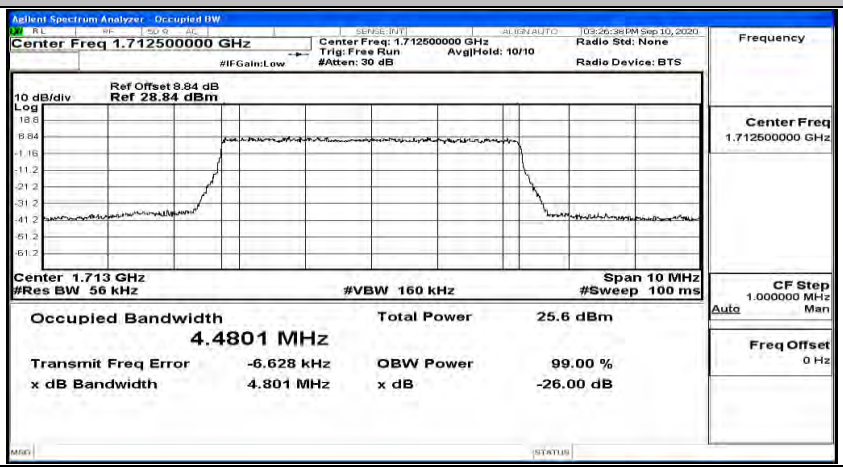
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



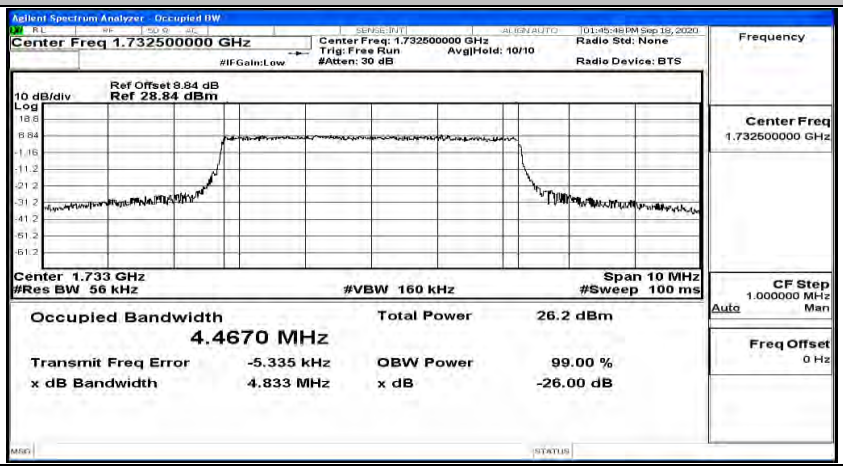
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



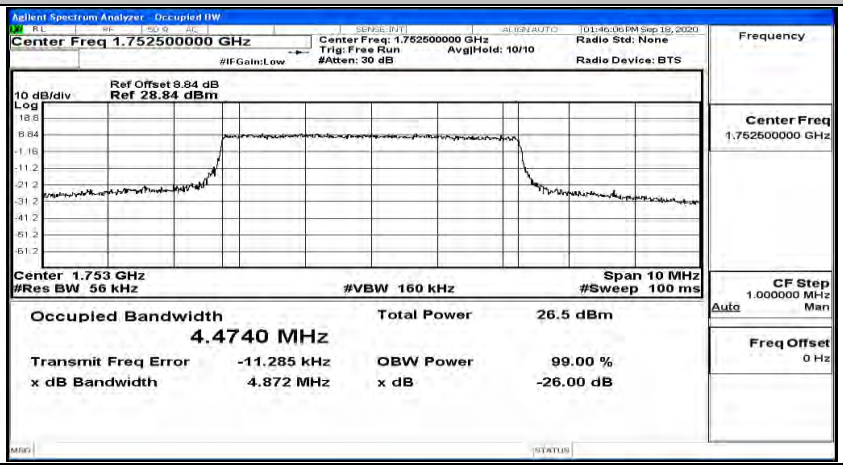
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



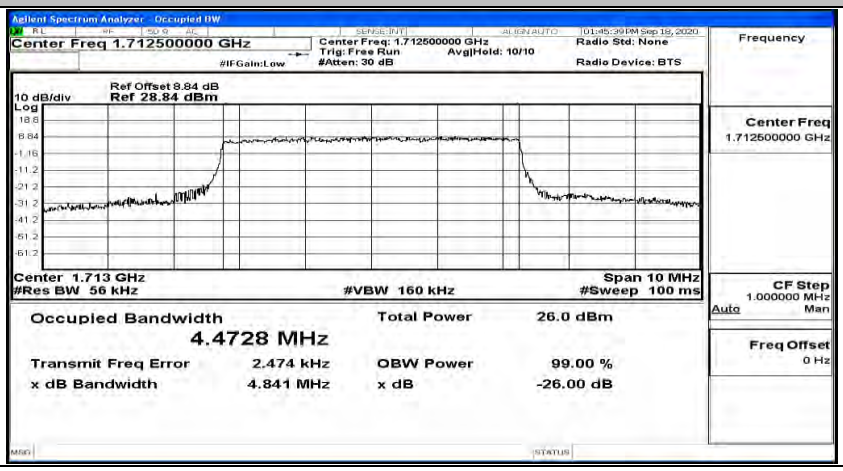
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



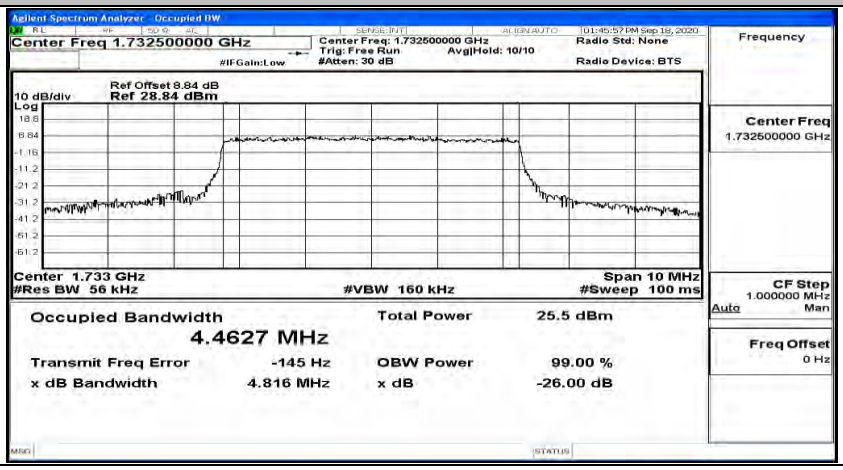
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



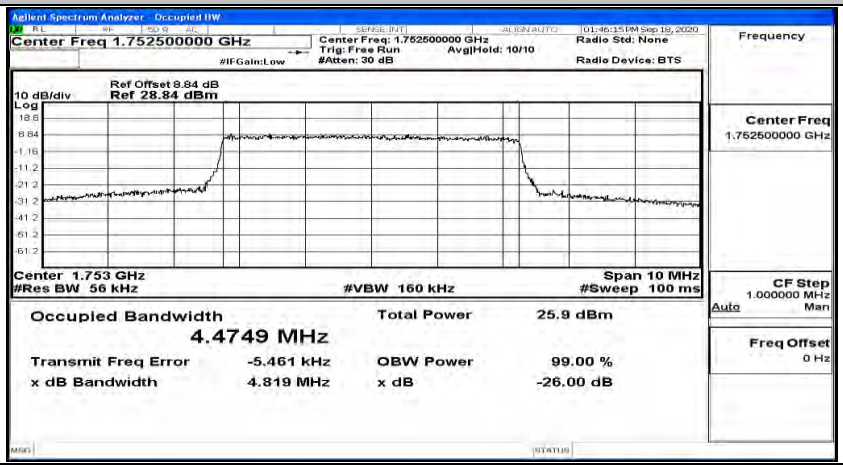
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



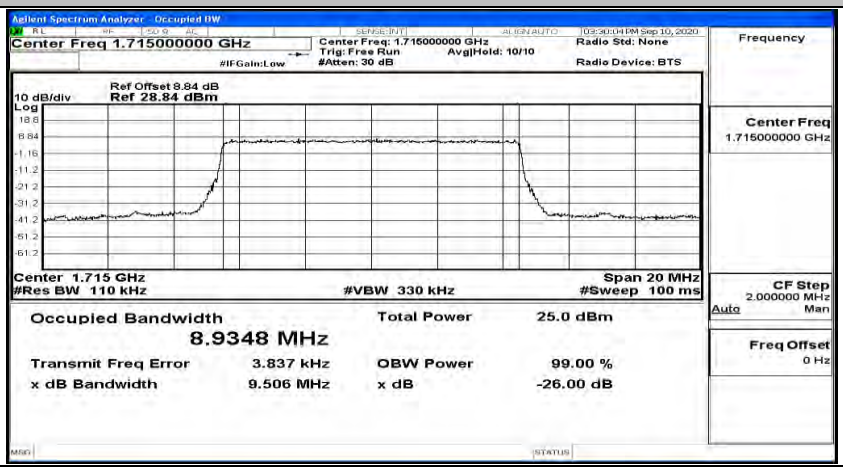
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



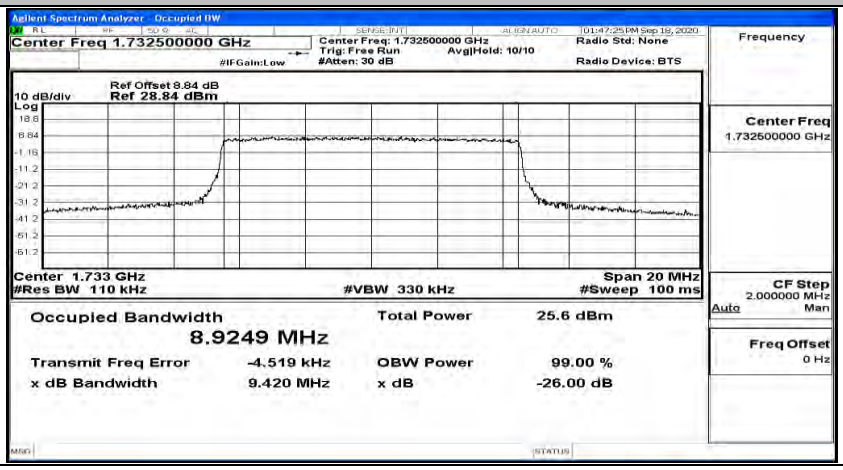
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



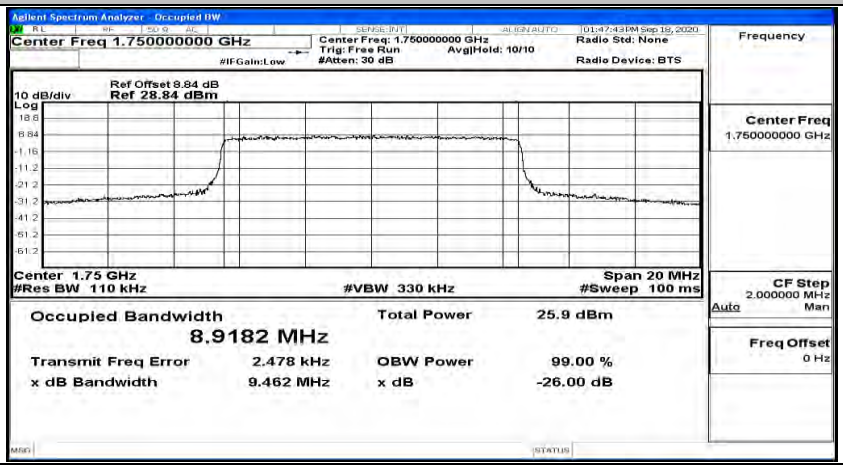
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



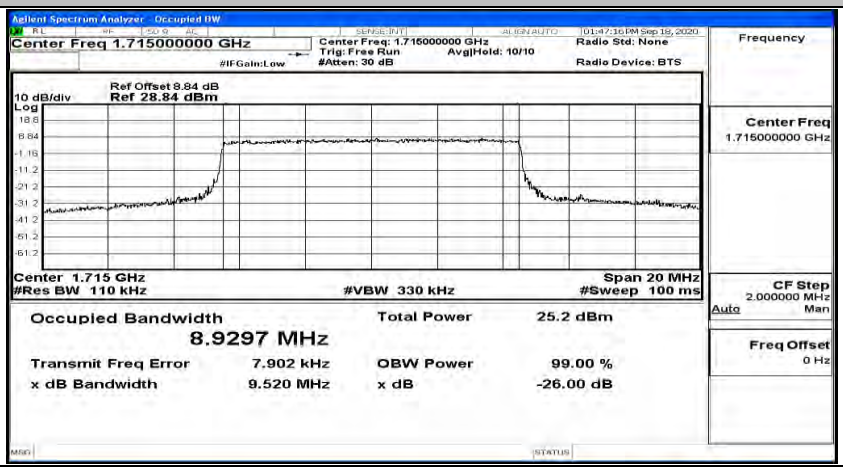
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



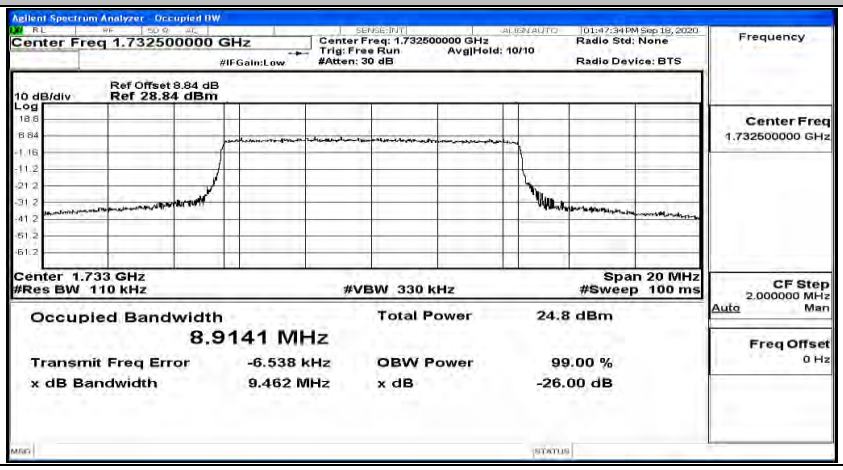
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



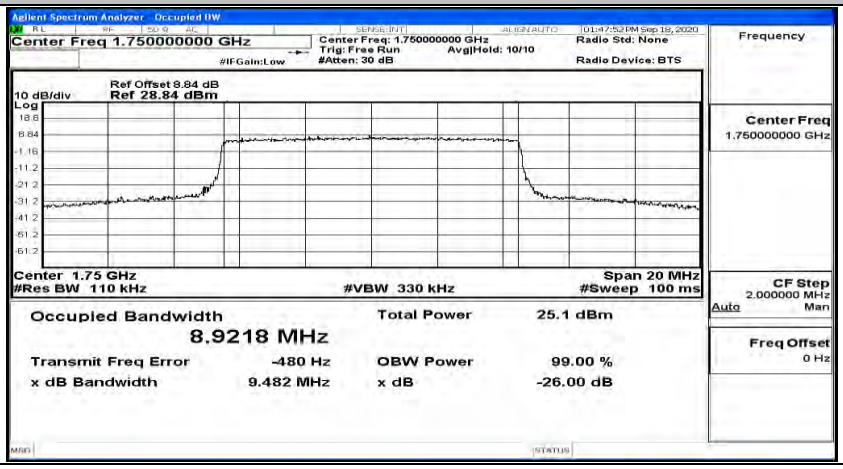
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



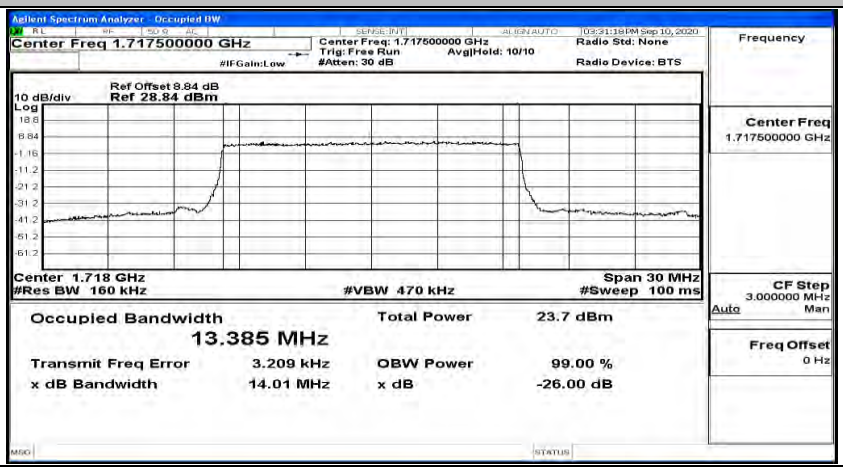
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



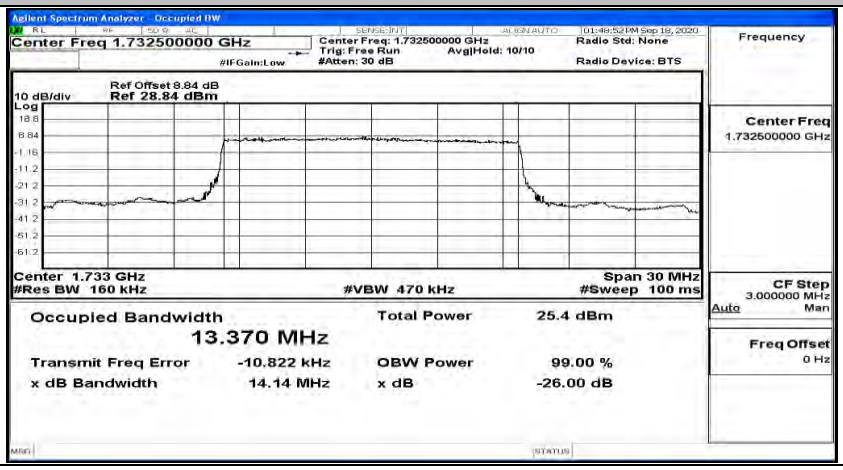
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



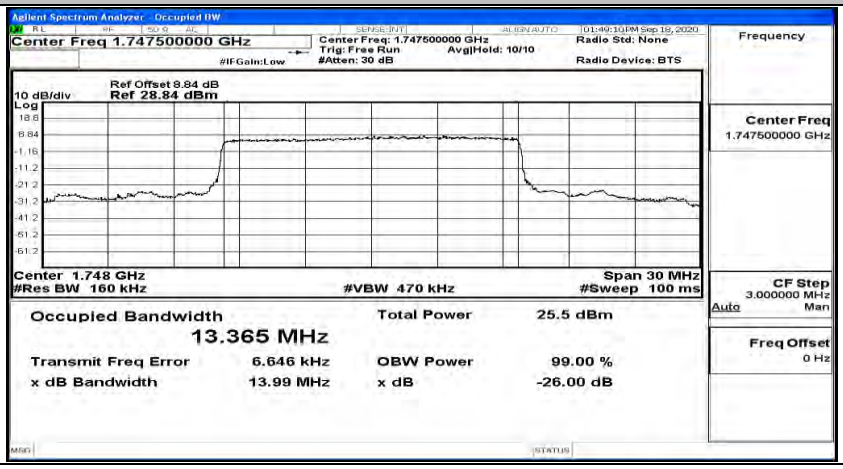
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



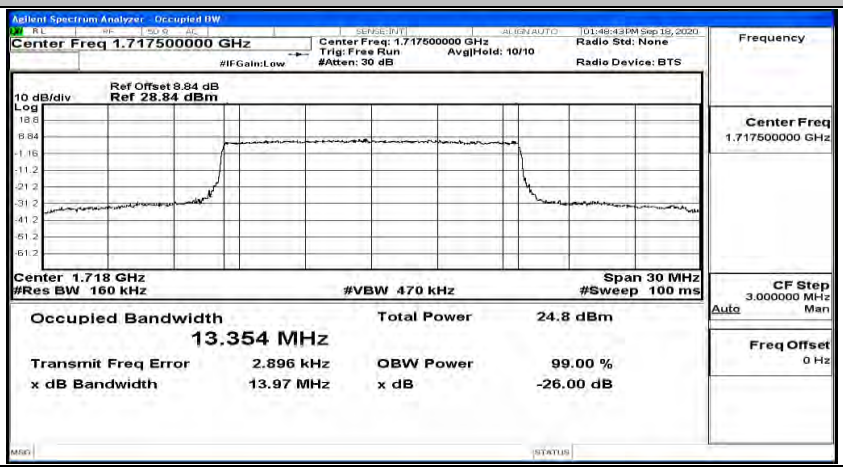
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



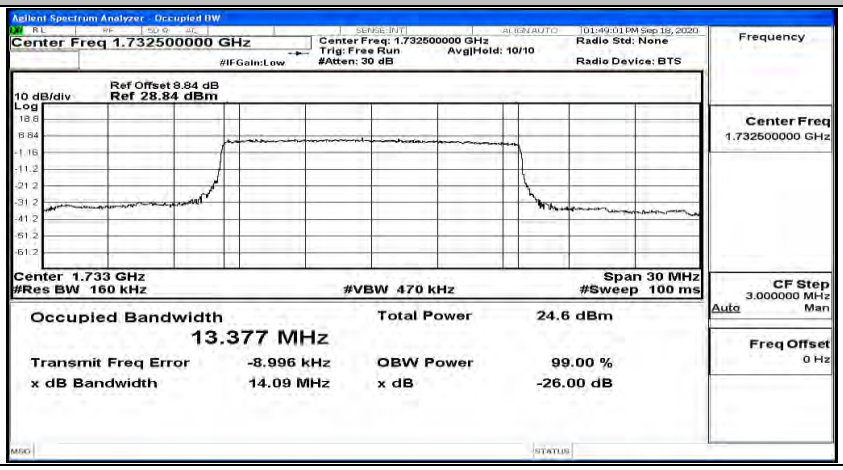
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



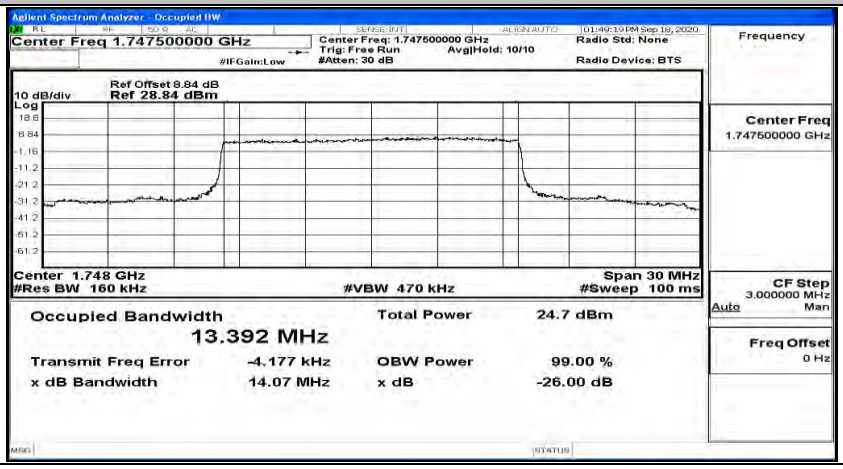
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



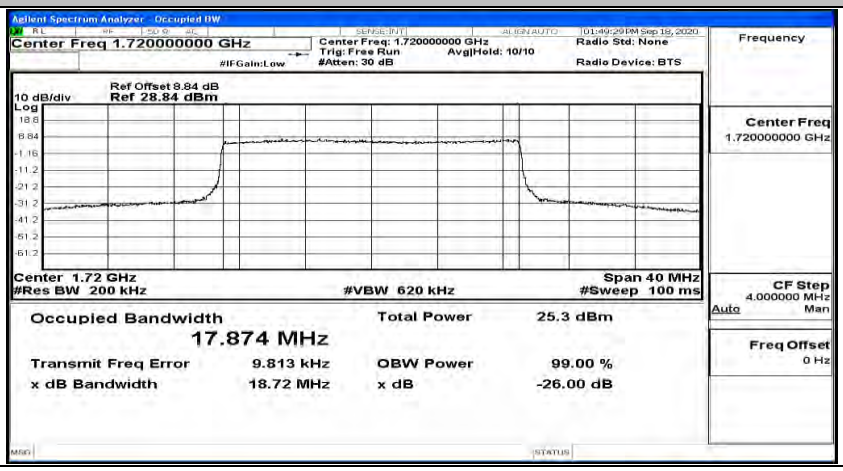
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



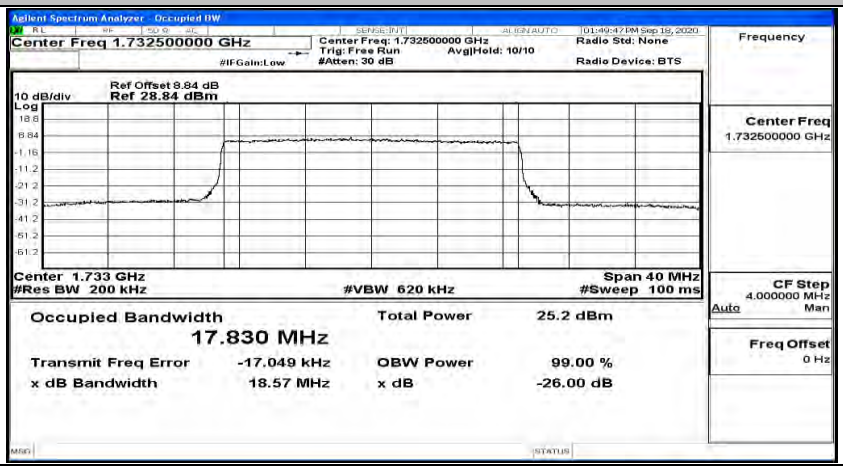
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



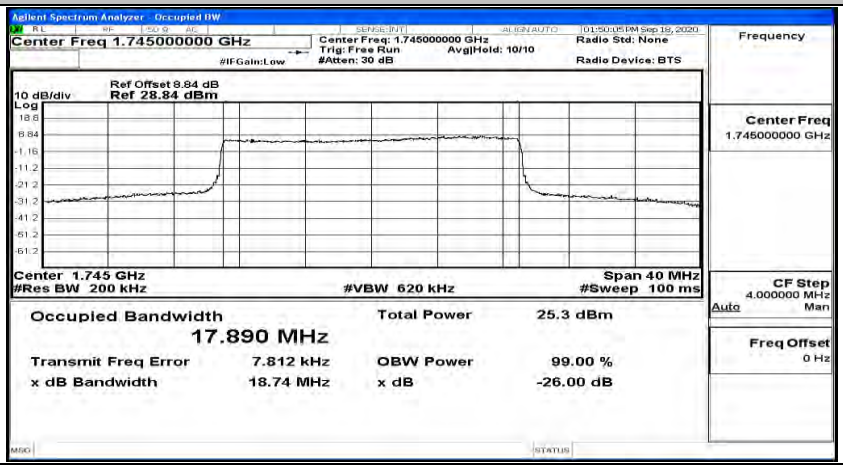
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



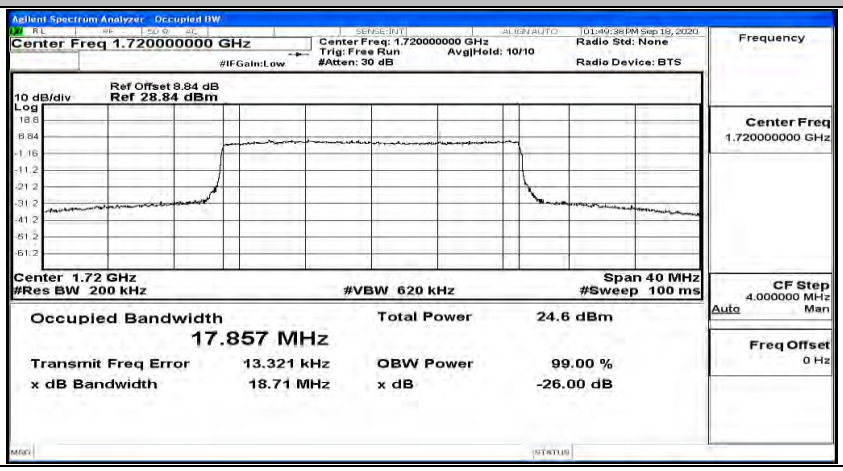
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



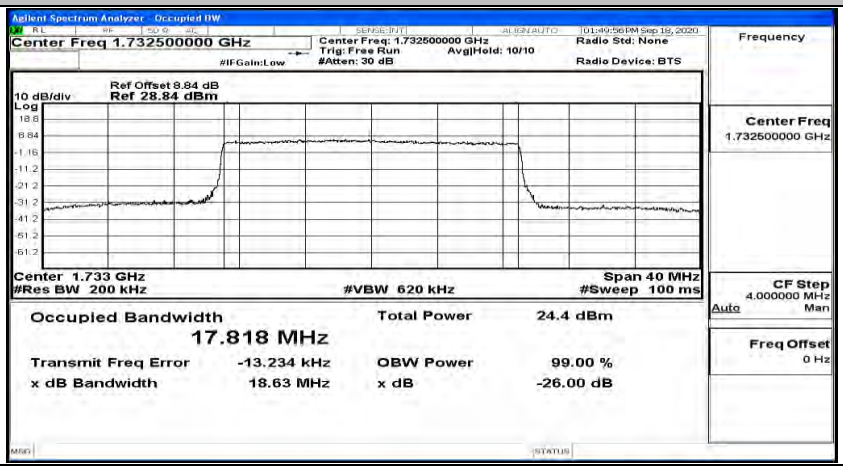
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



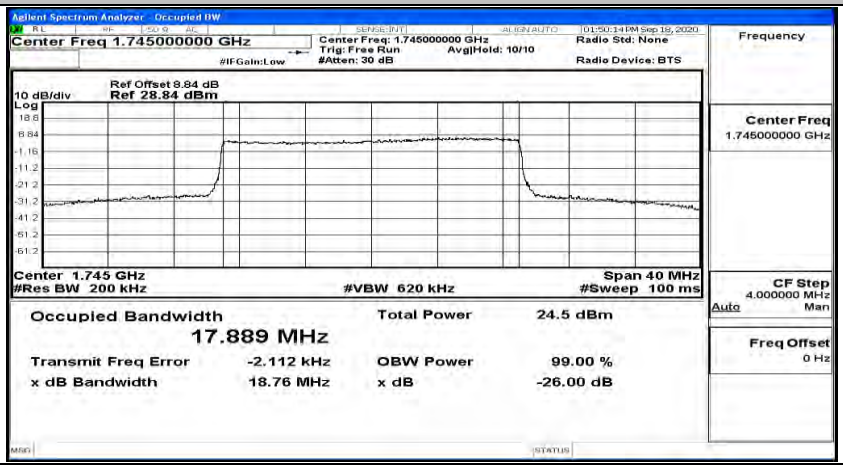
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM

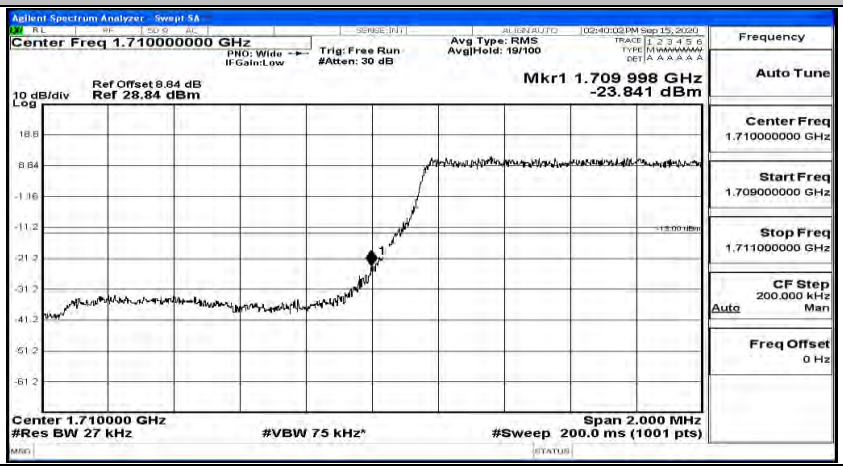


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

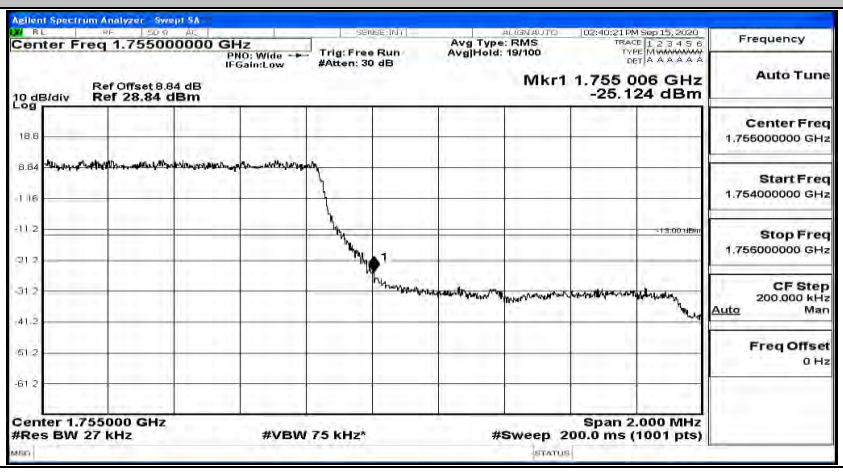


E.4 Band Edge

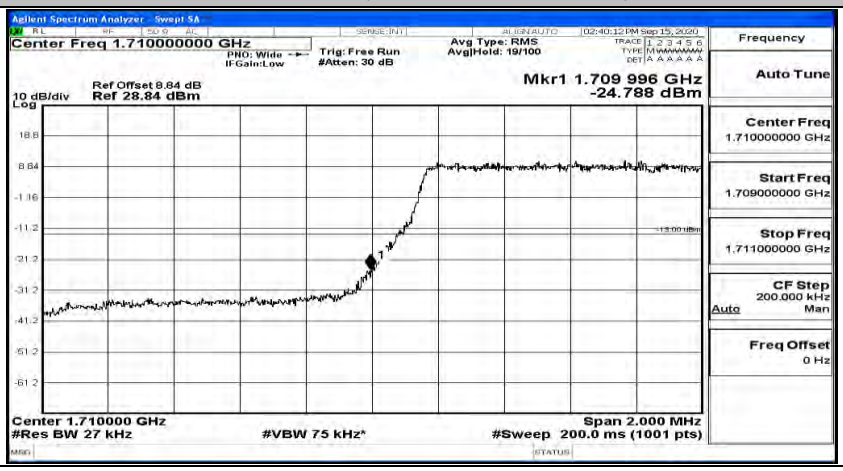
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



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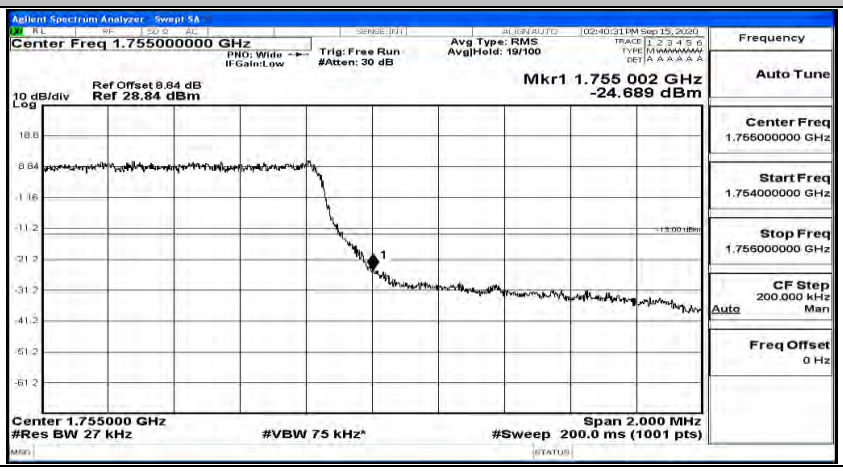
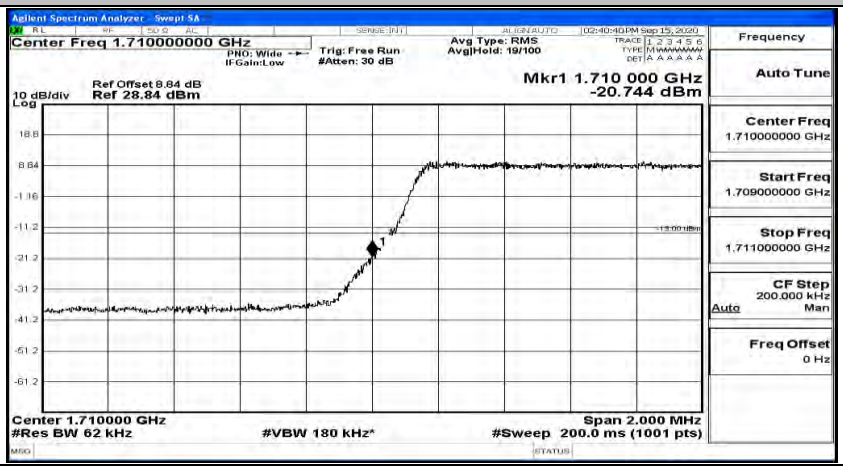
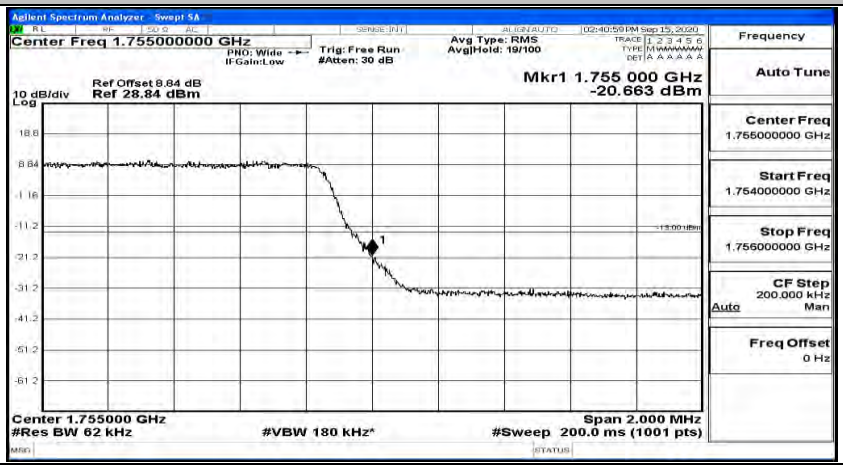
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



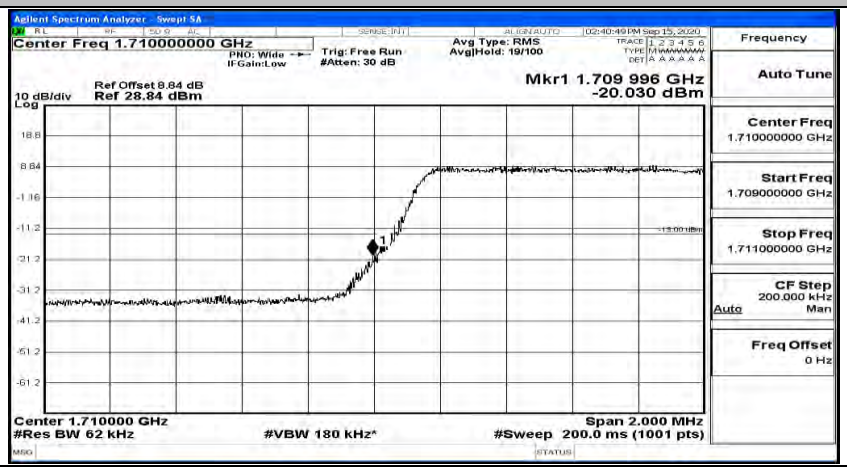
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



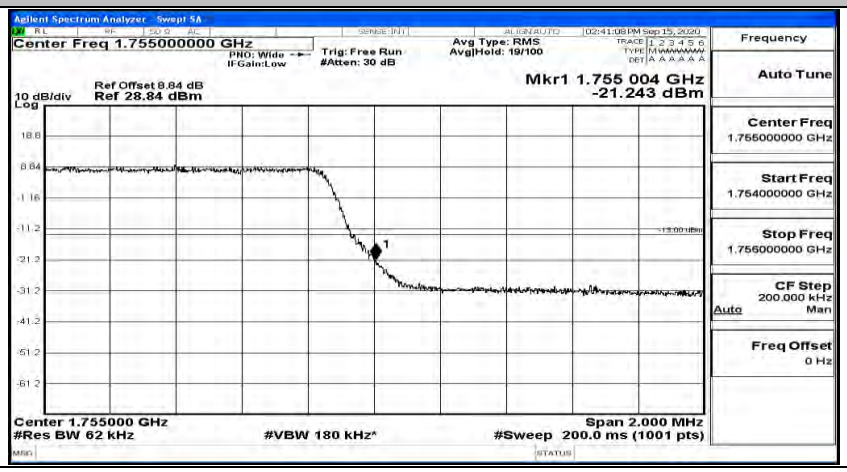
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



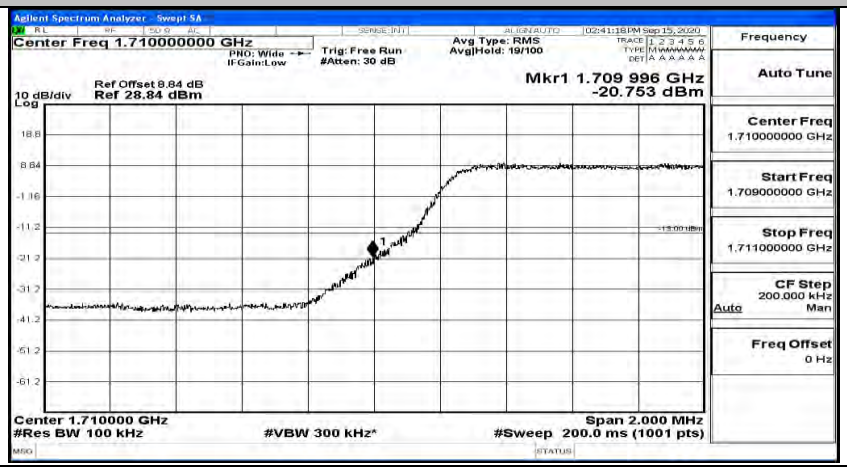
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



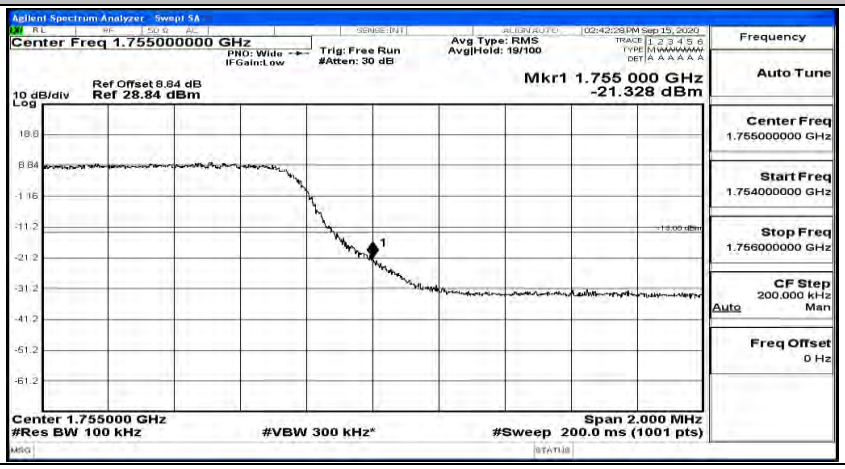
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



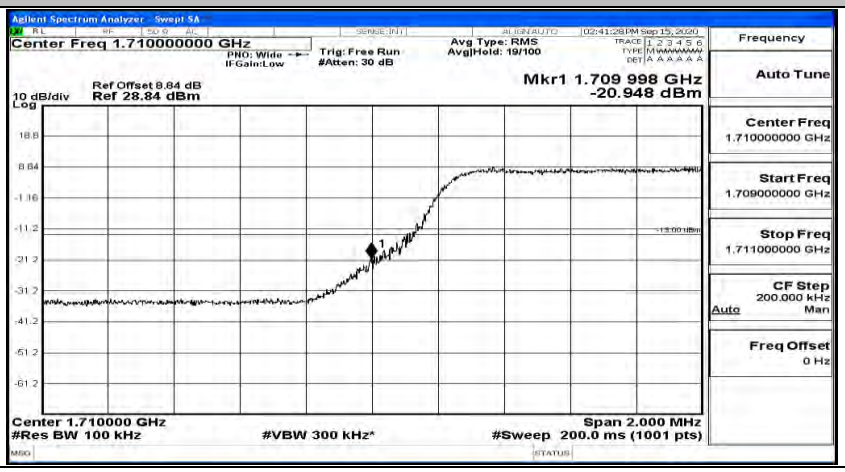
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



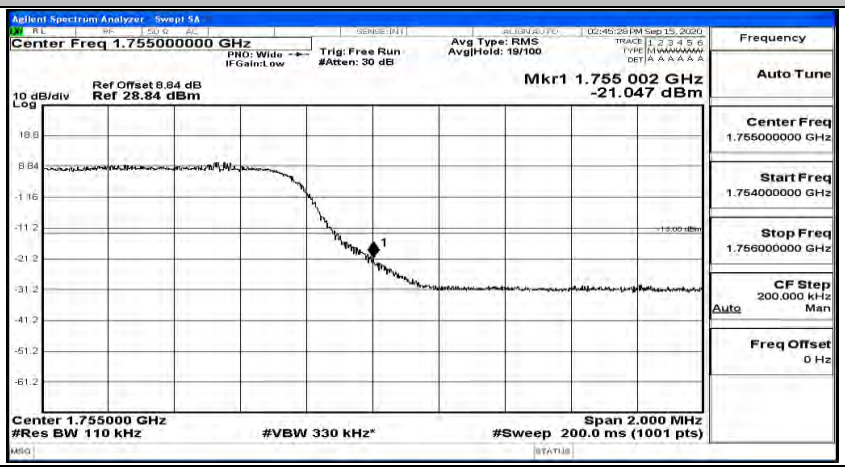
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



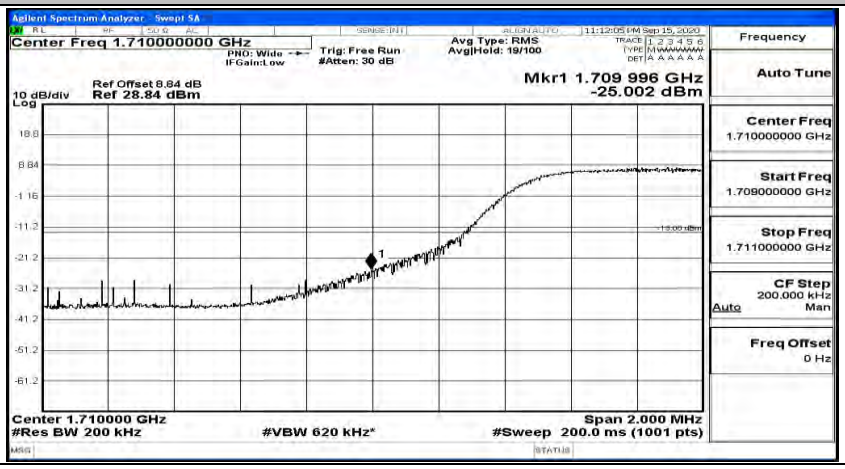
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

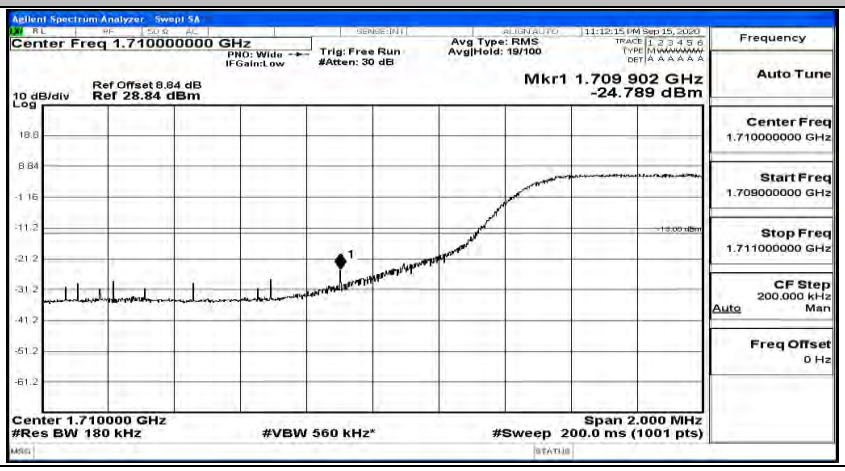


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

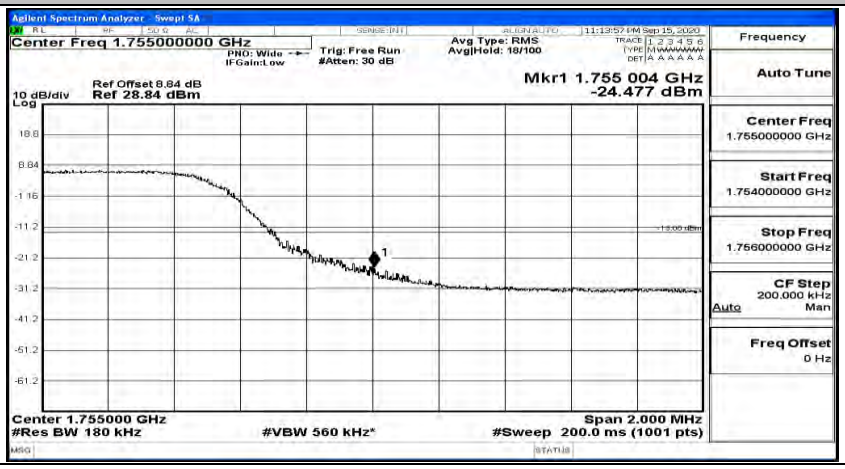


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

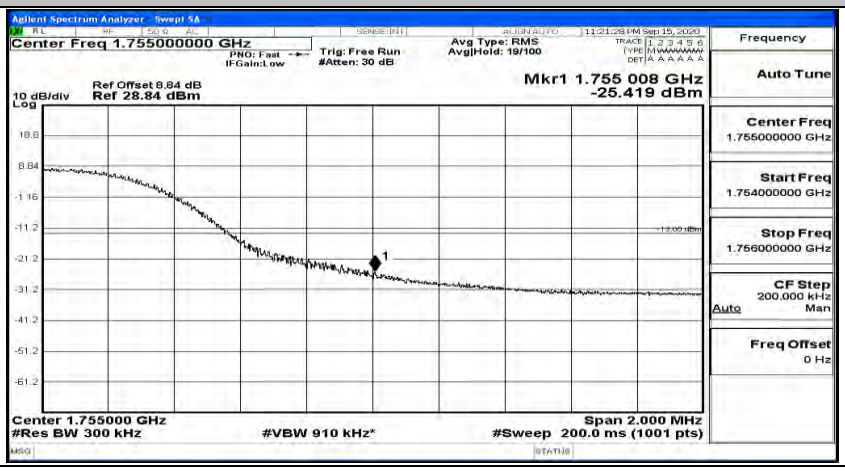


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK

Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



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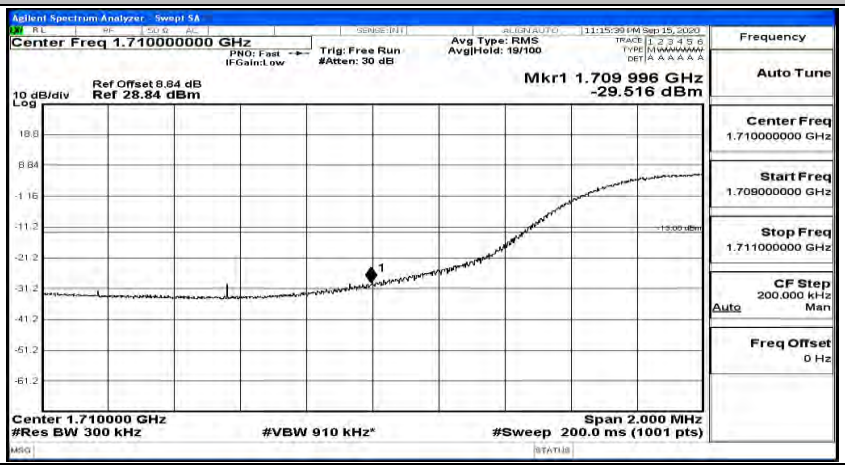
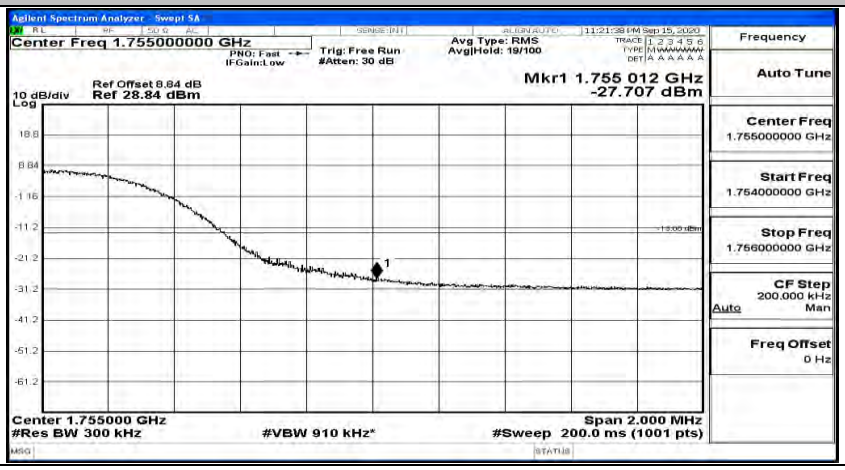
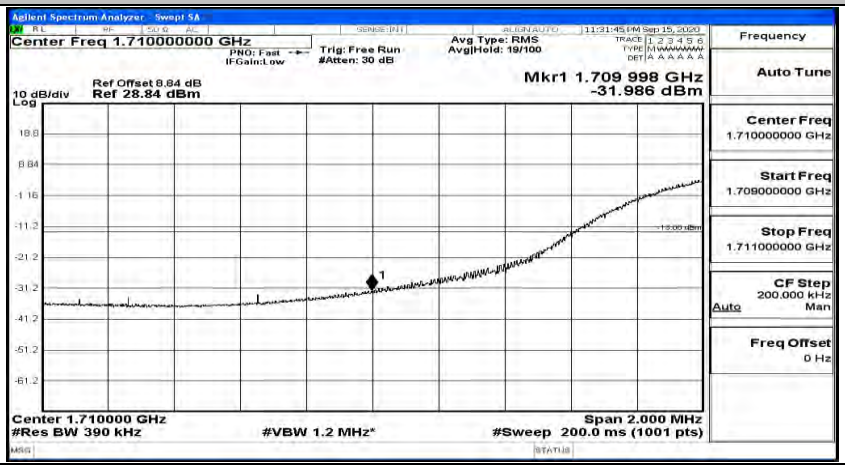
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



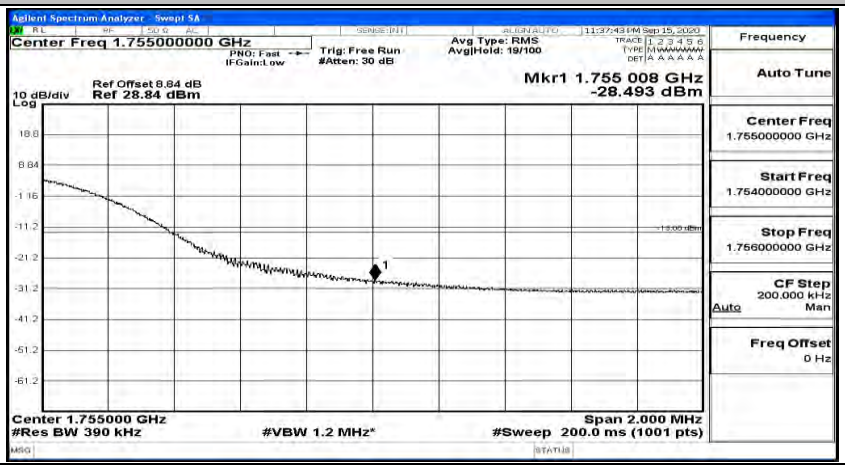
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK

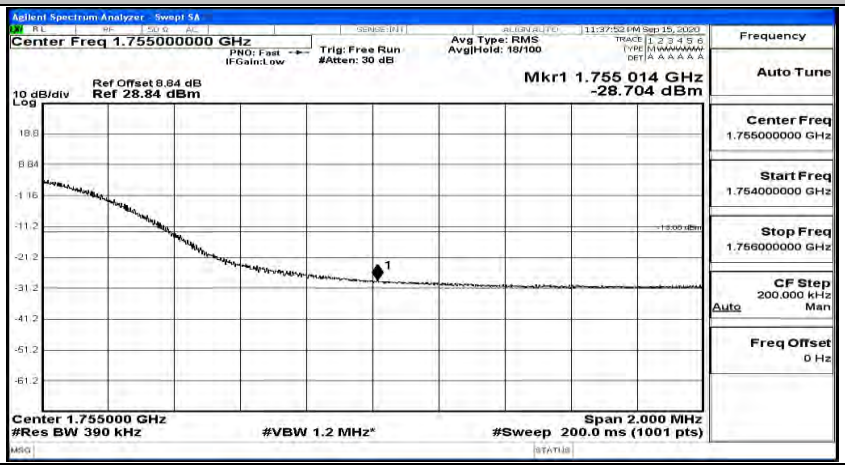


Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM

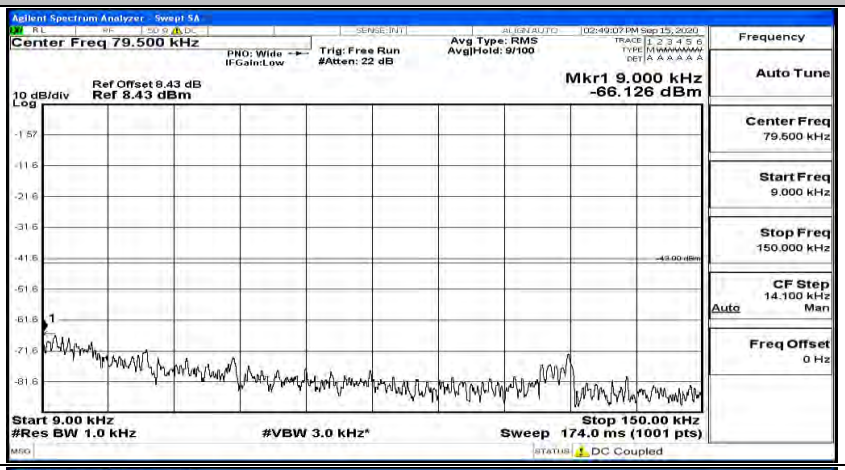
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

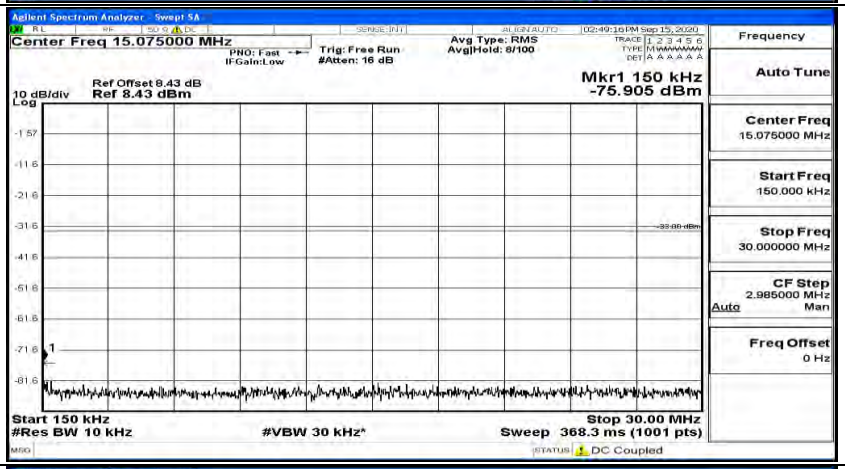


E.5 Conducted Spurious Emission

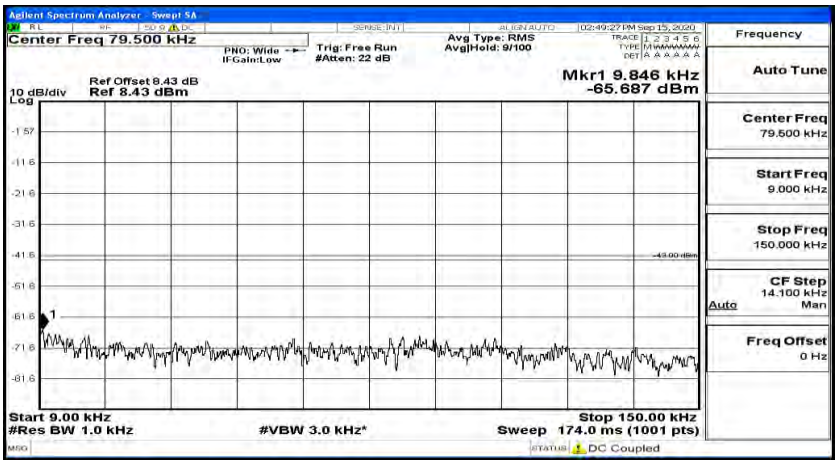
Channel Bandwidth: 1.4 MHz

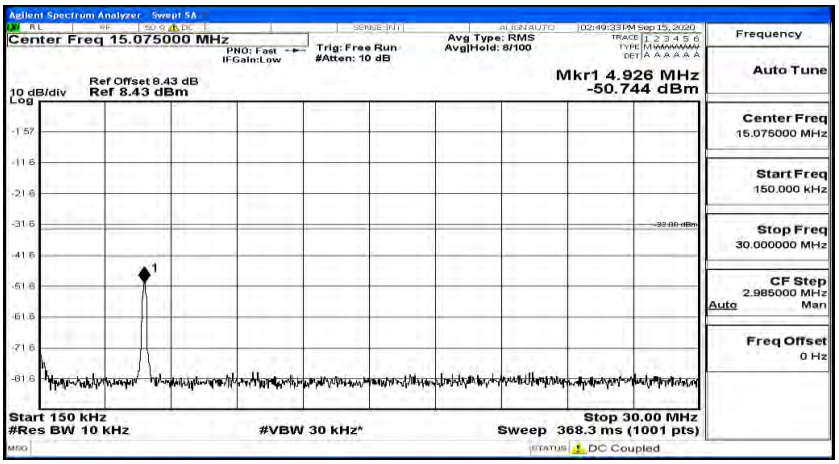
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



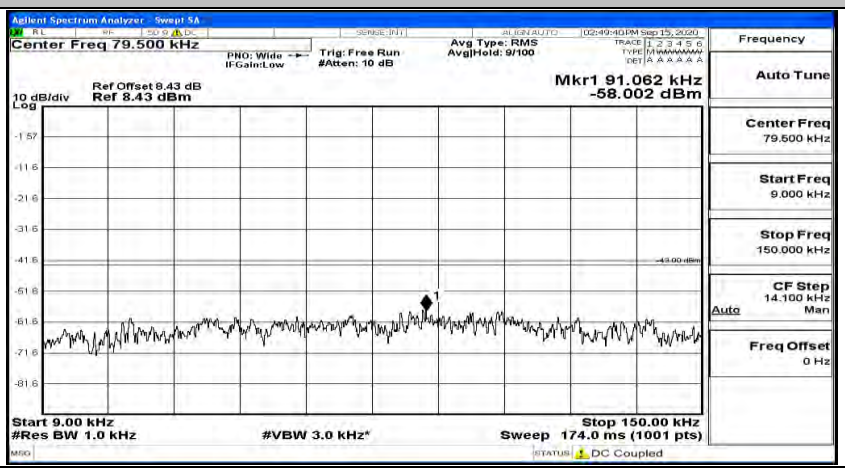


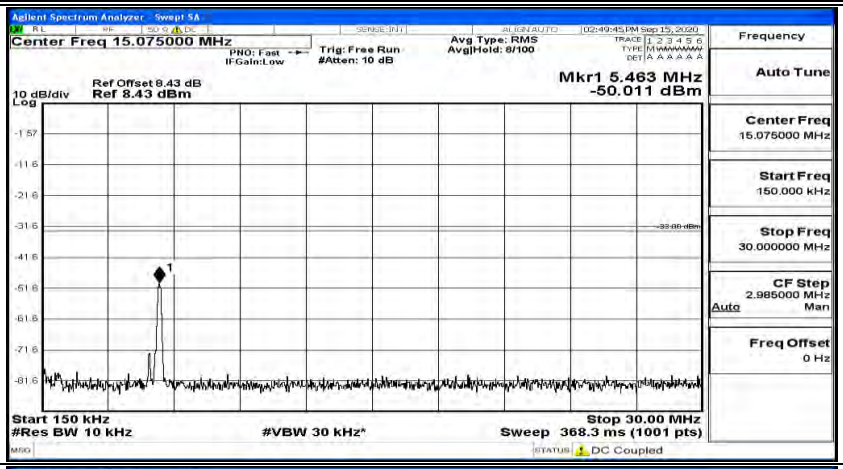
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

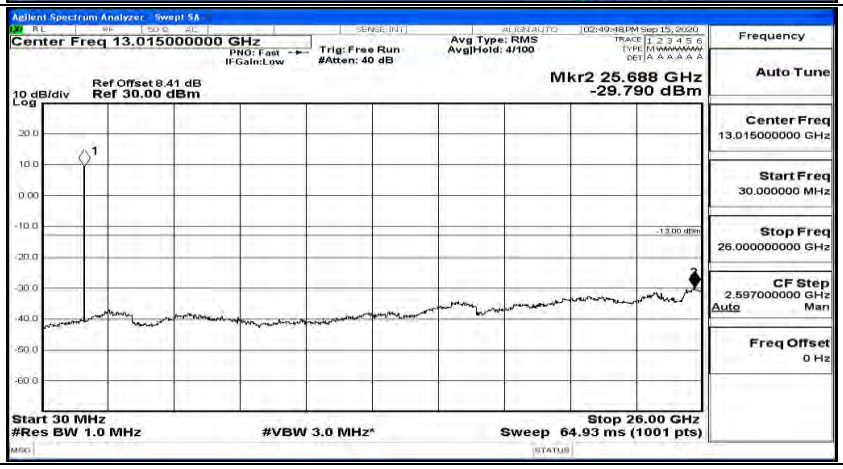




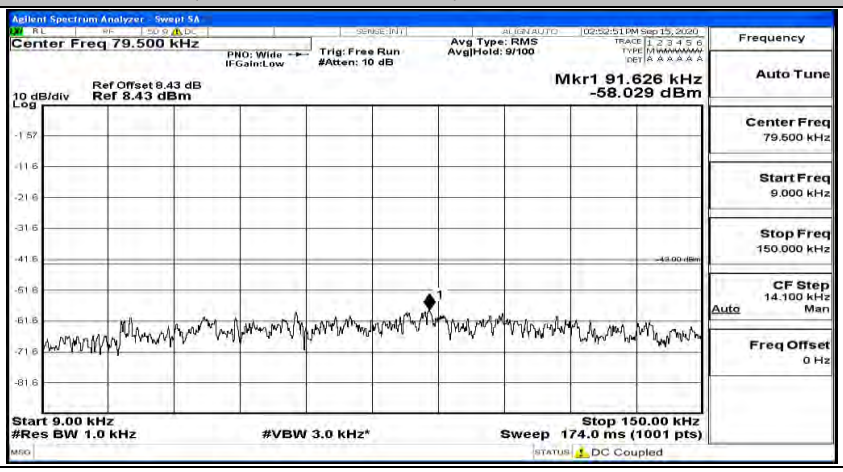
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5

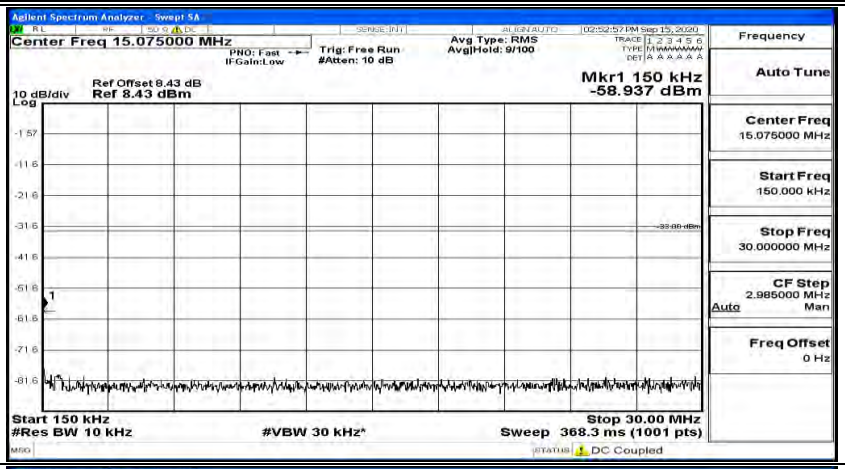




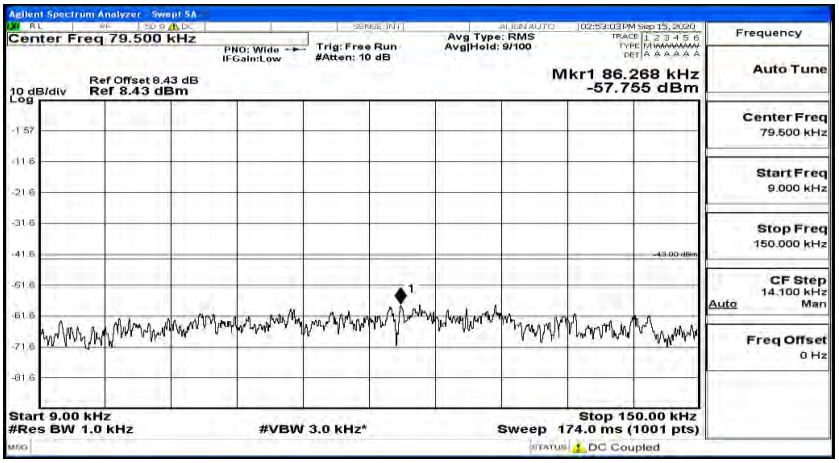


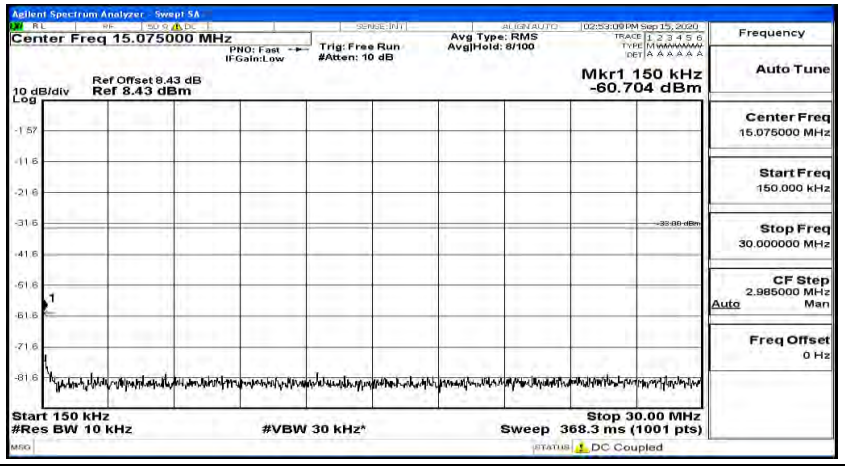
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



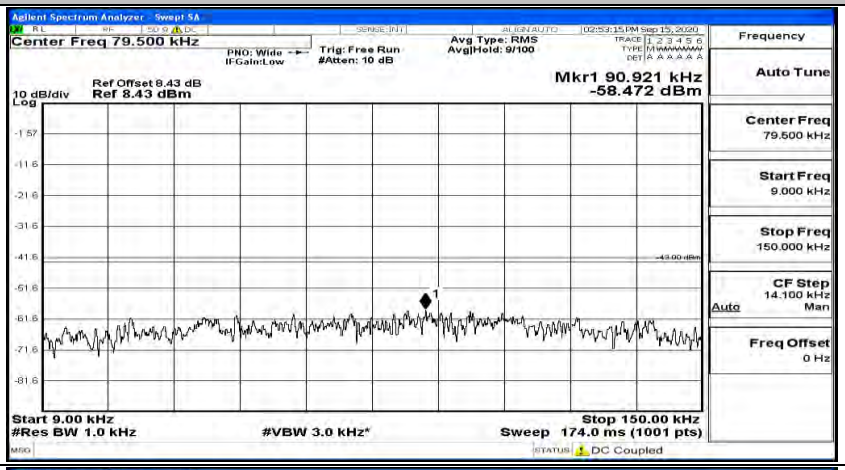


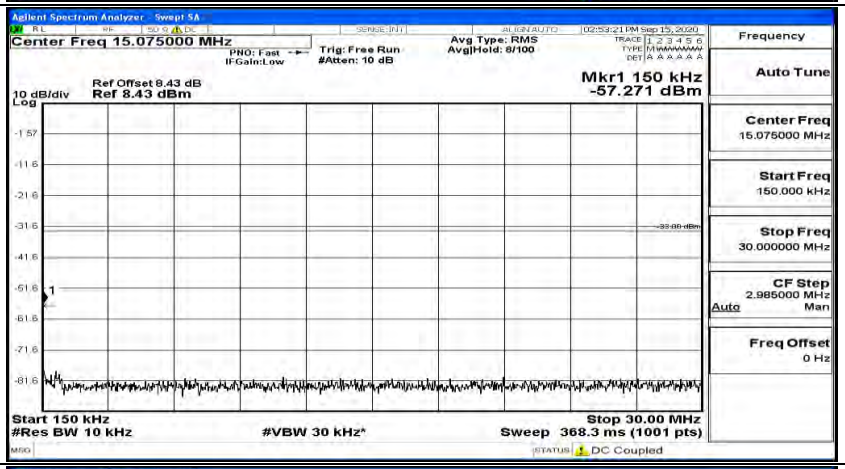
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



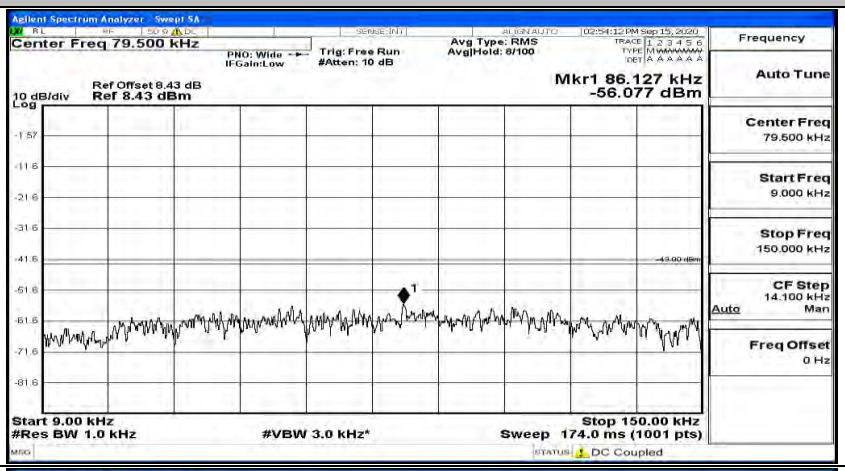


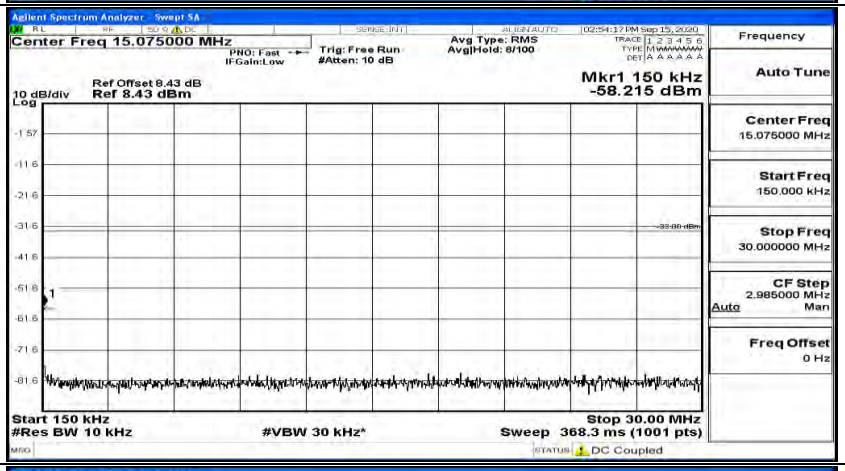
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



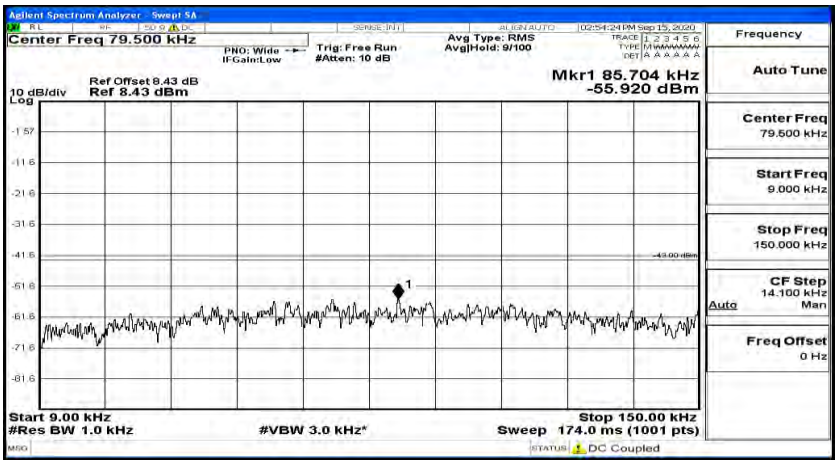


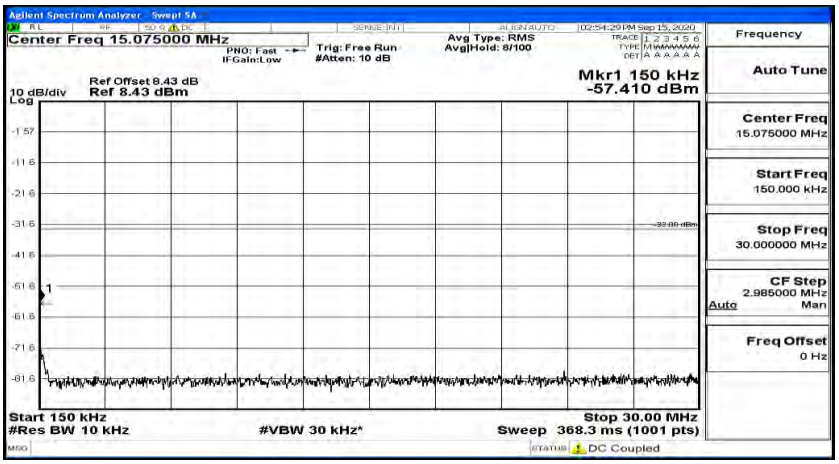
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

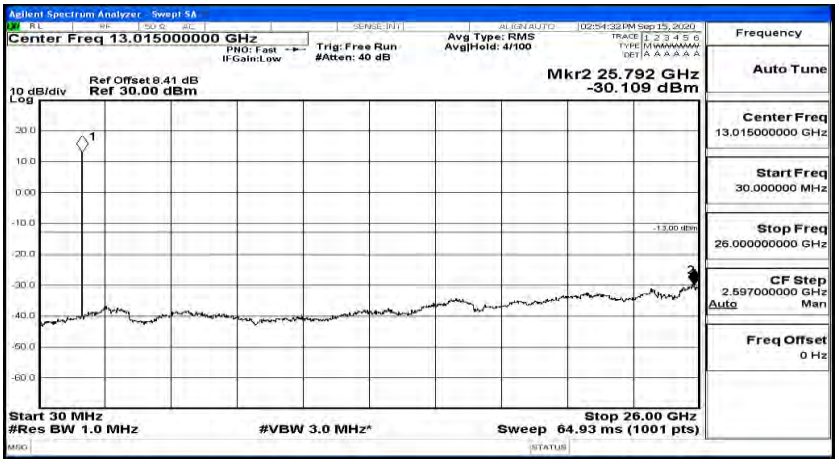




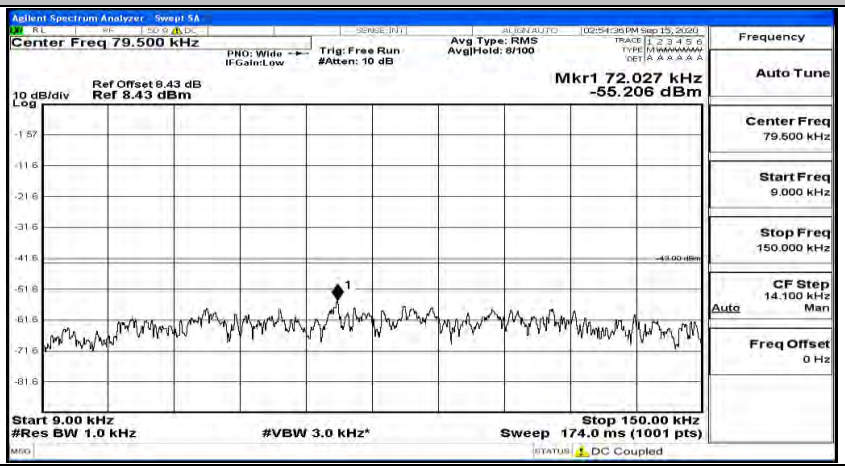
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3

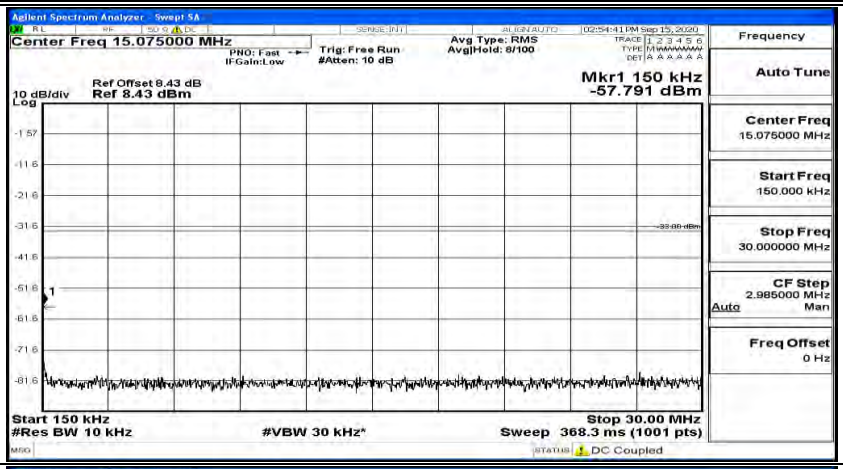




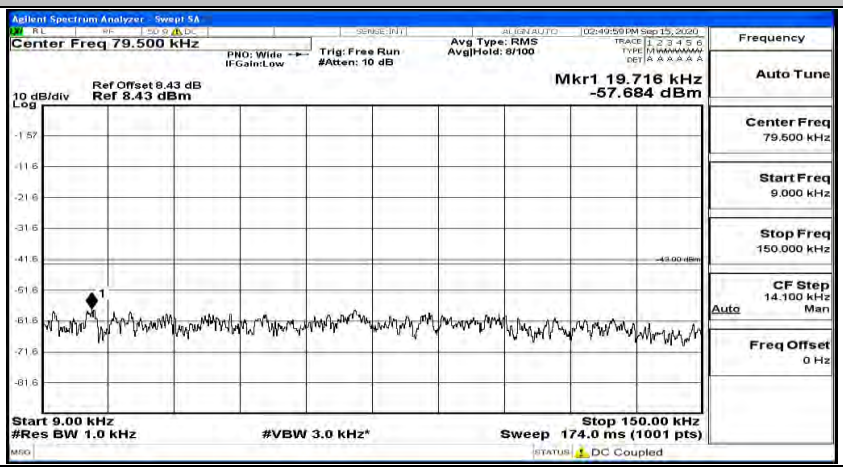


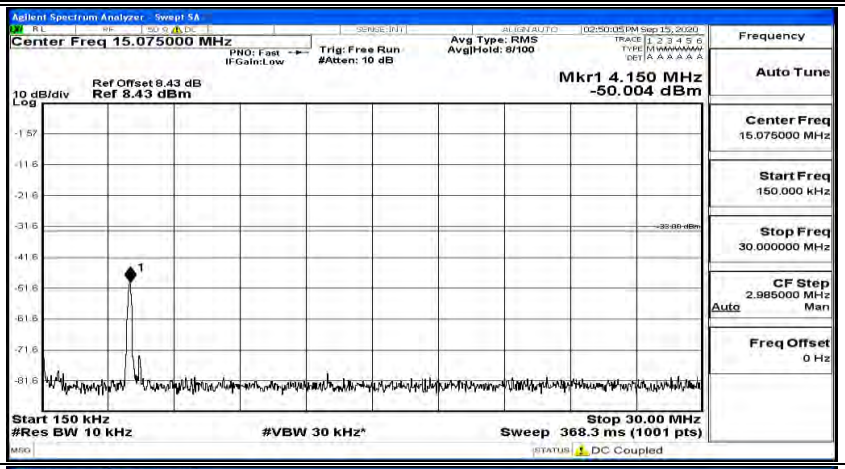
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



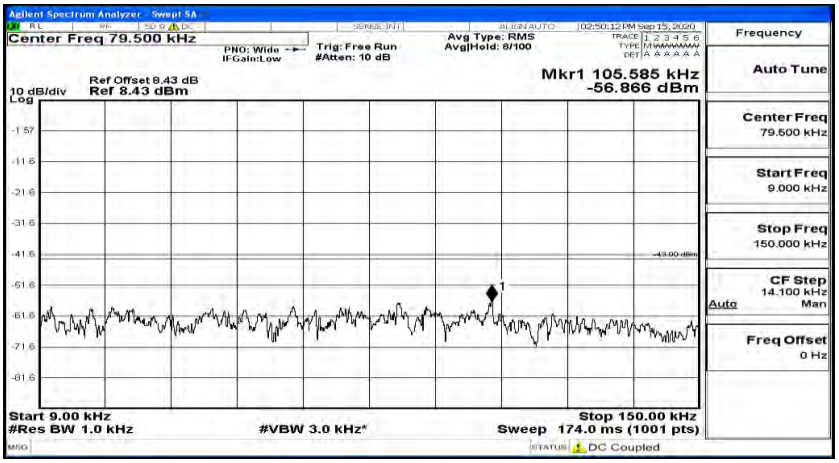


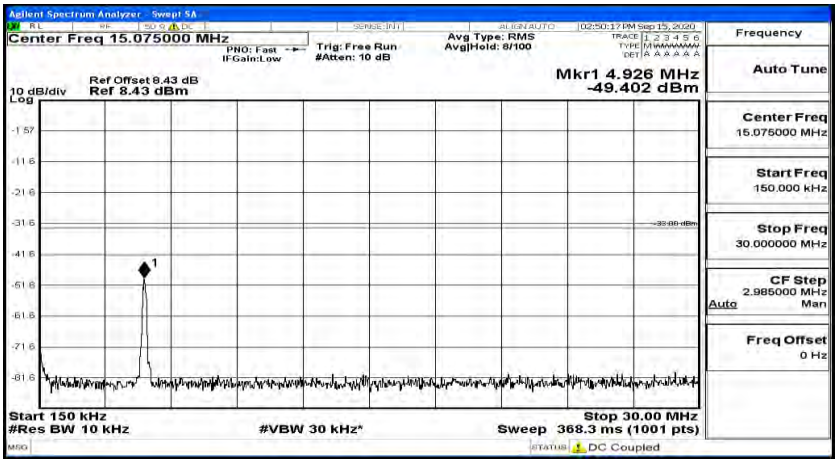
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



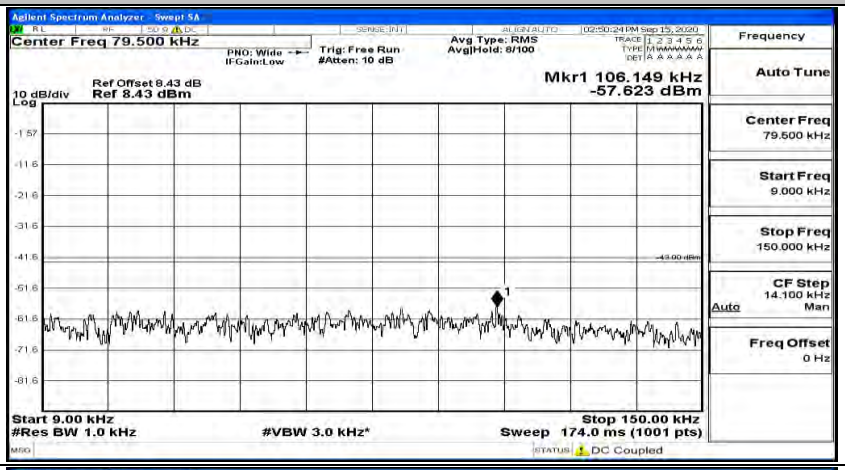


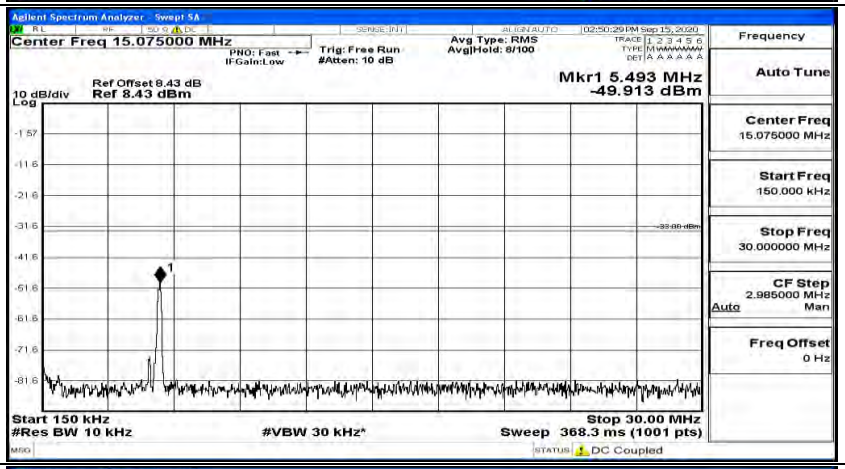
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



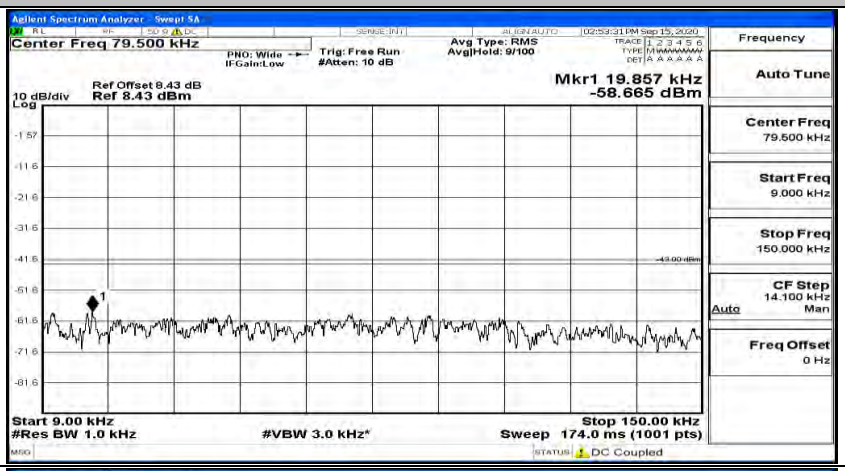


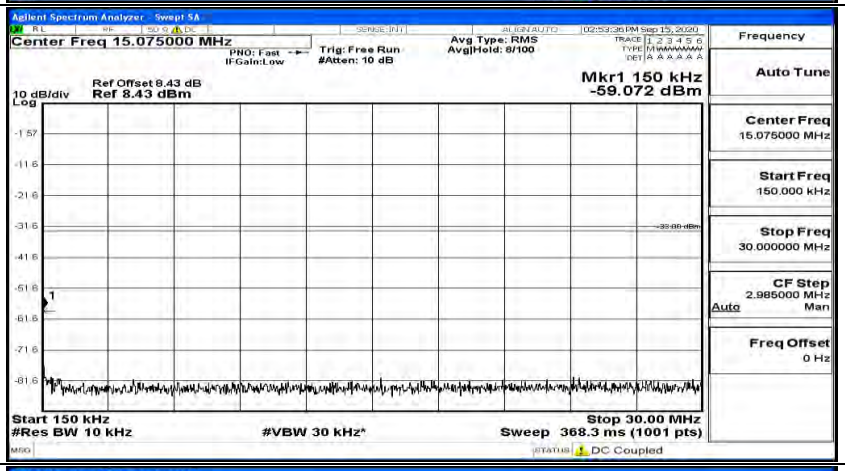
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



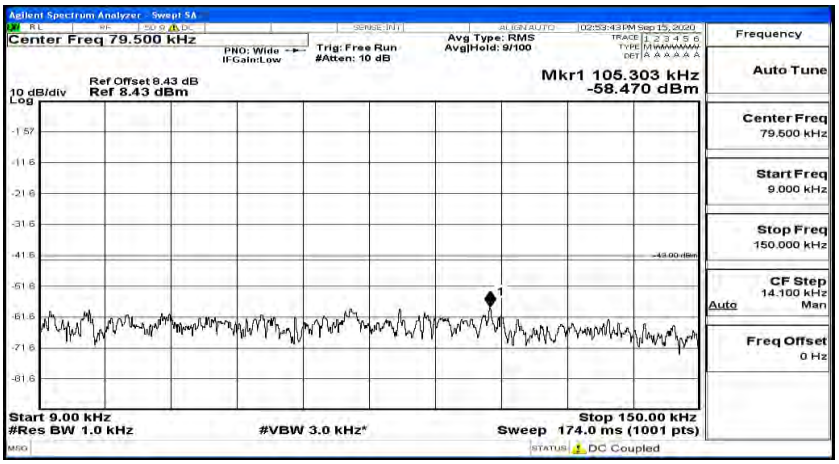


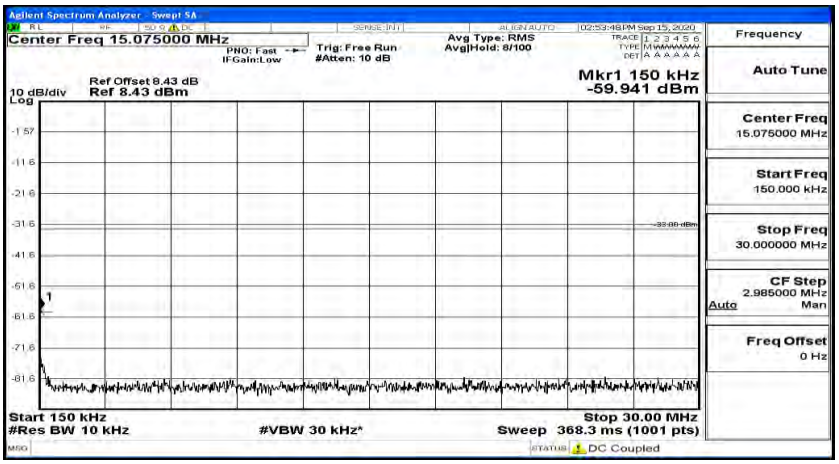
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



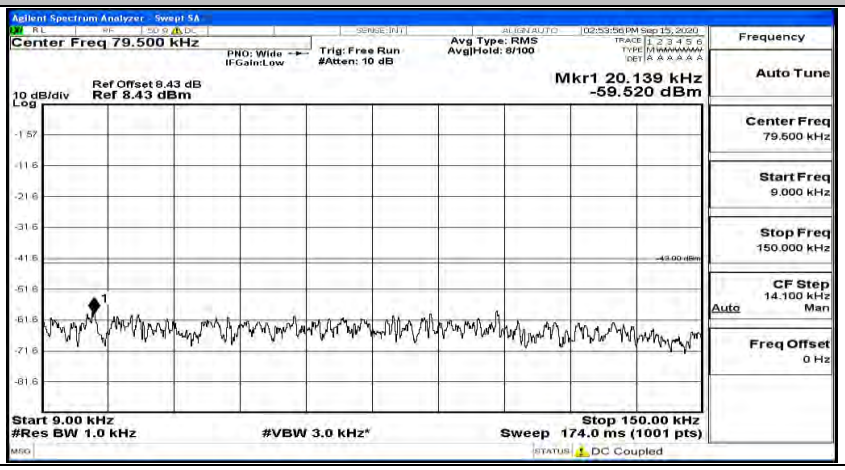


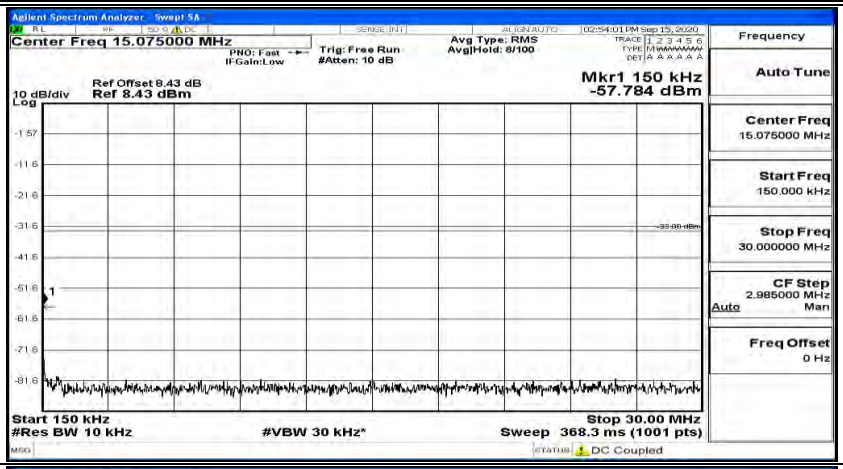
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



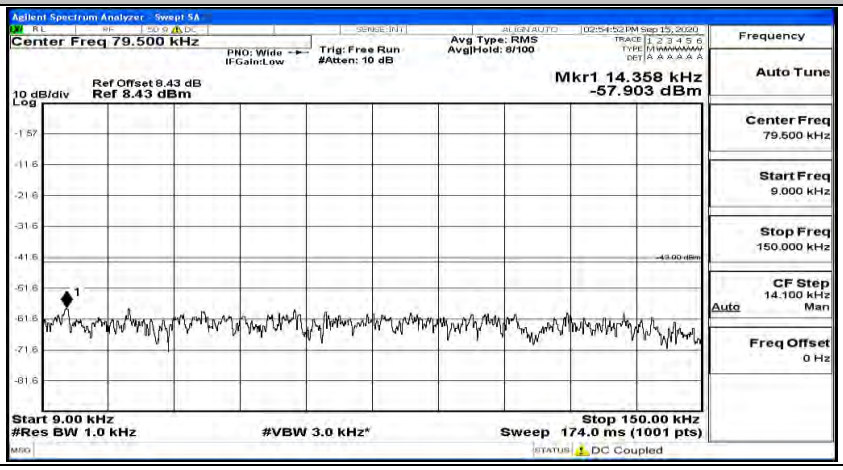


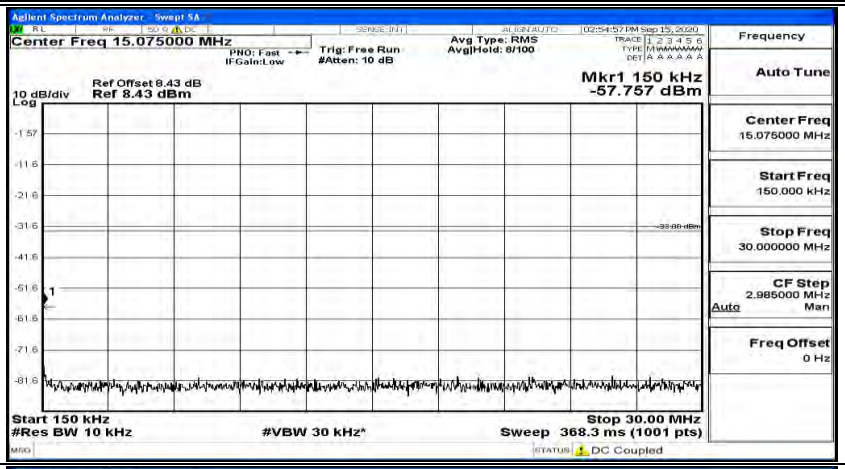
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



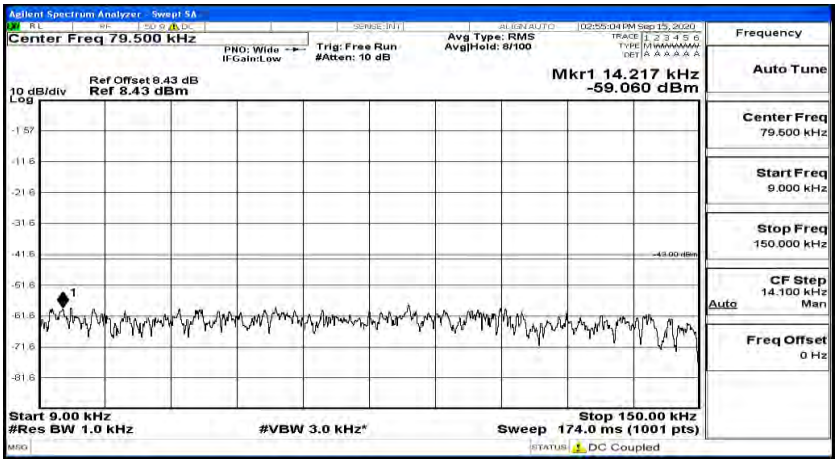


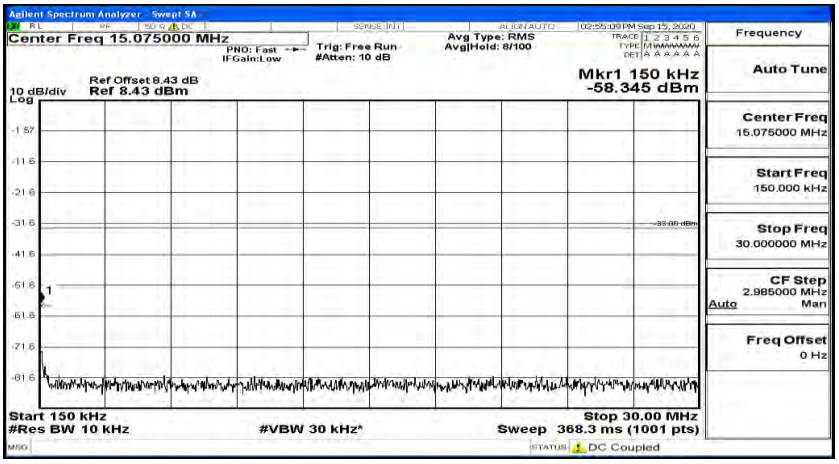
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



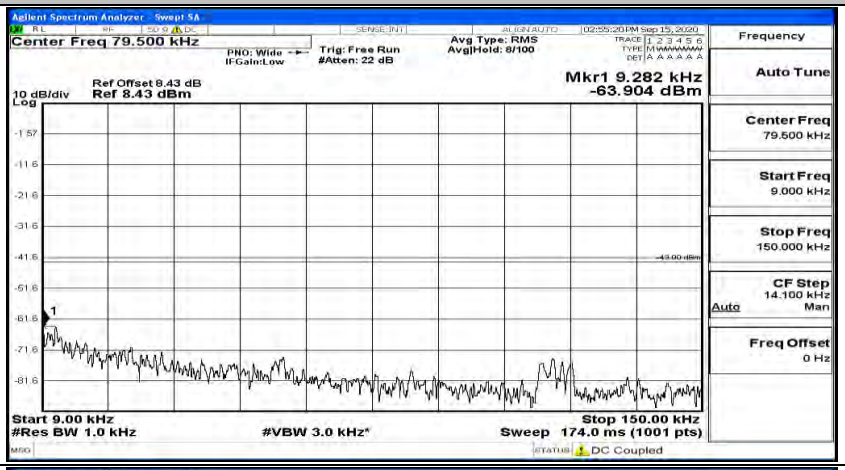


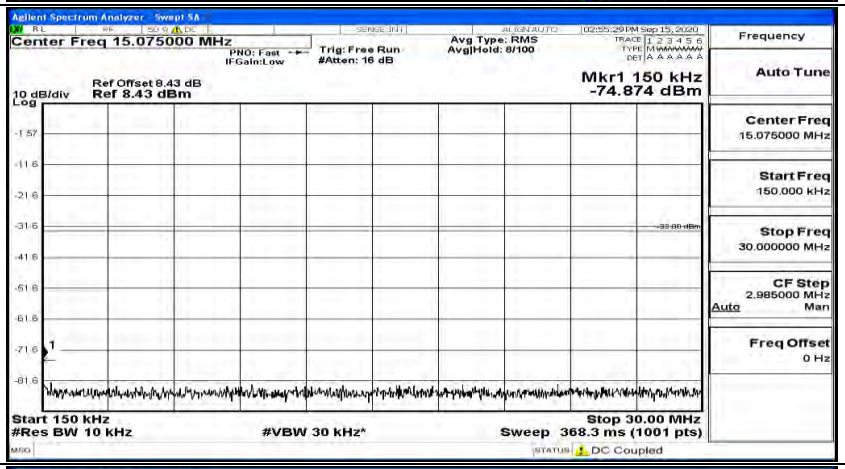
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3





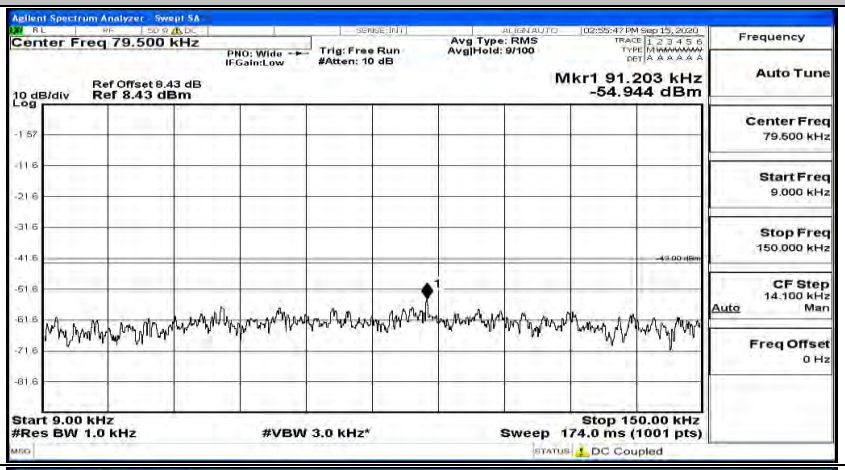
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5

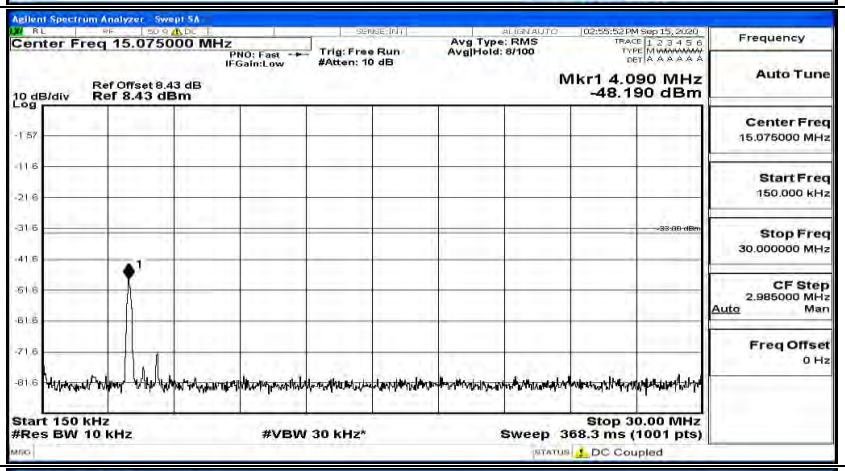




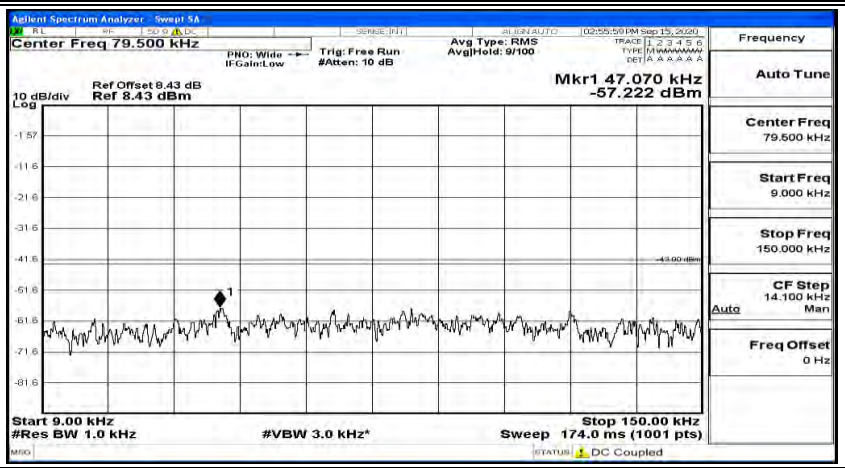
Channel Bandwidth: 3 MHz

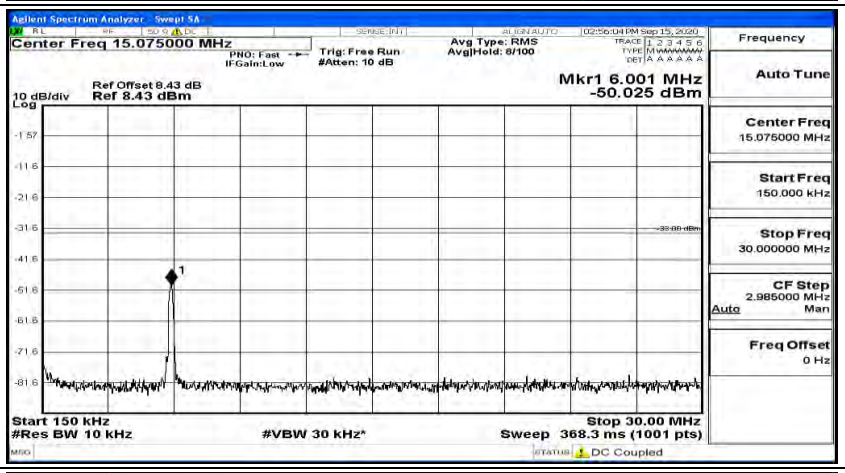
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



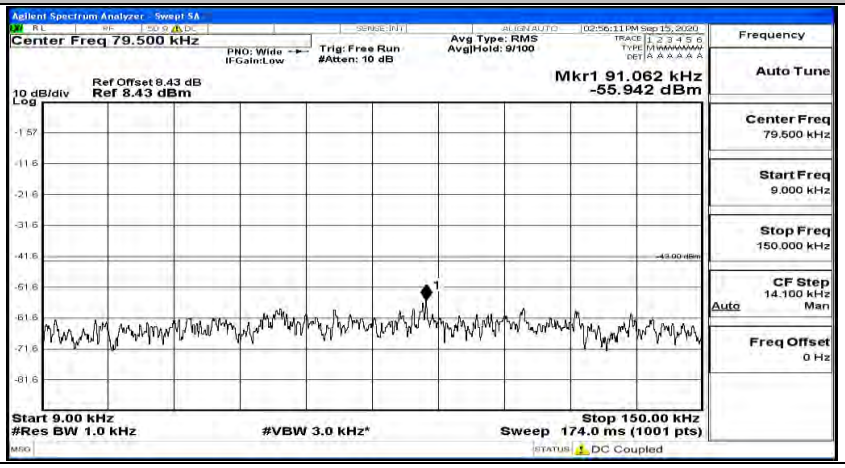


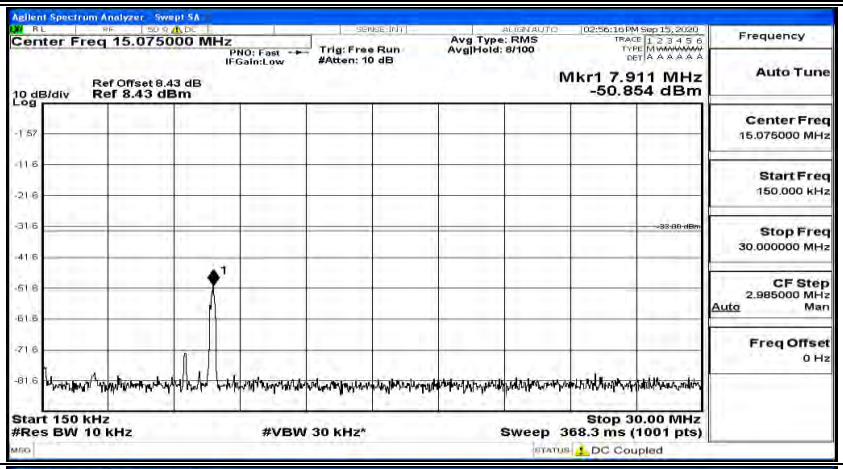
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



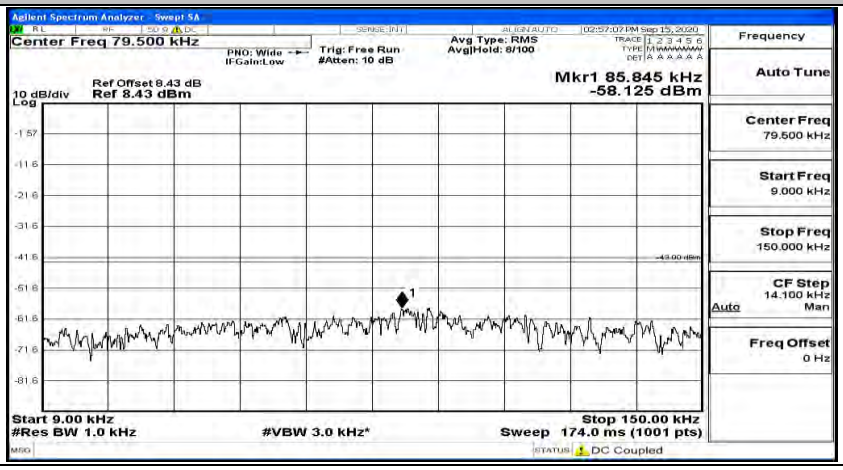


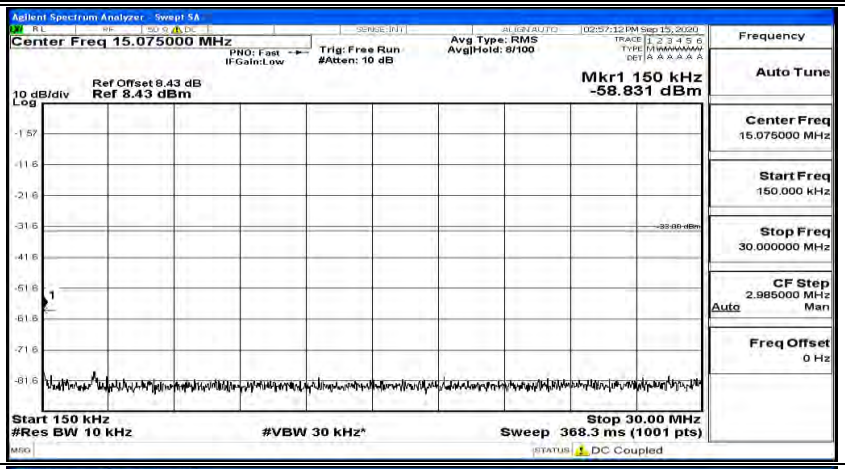
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



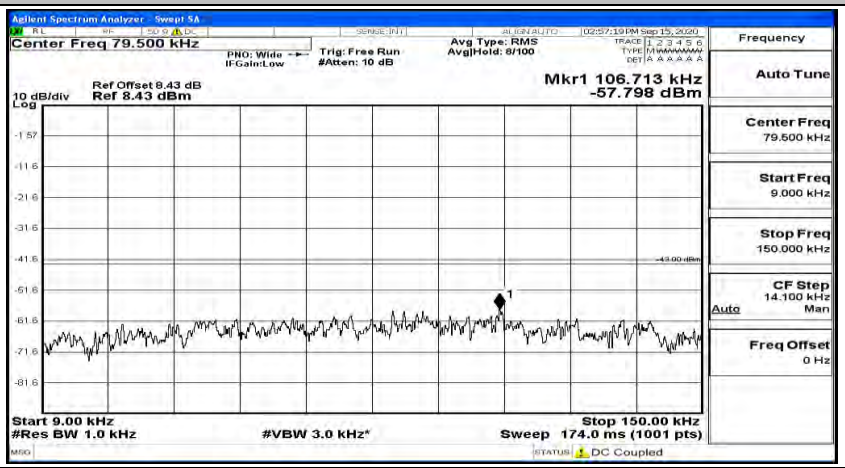


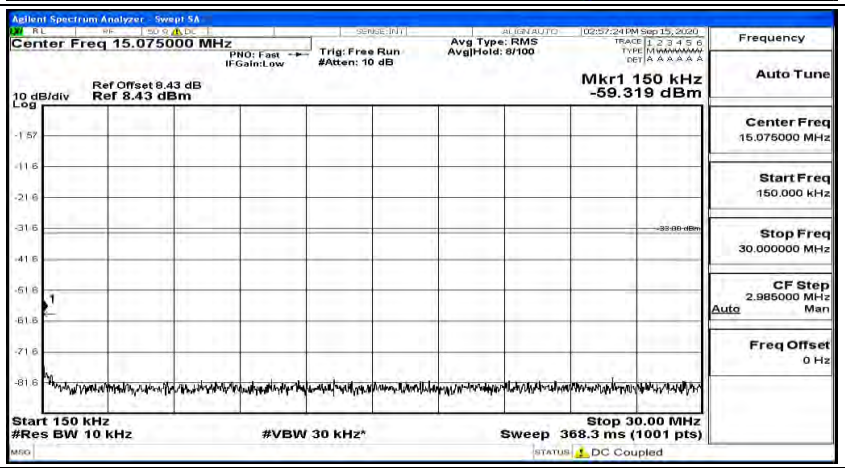
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



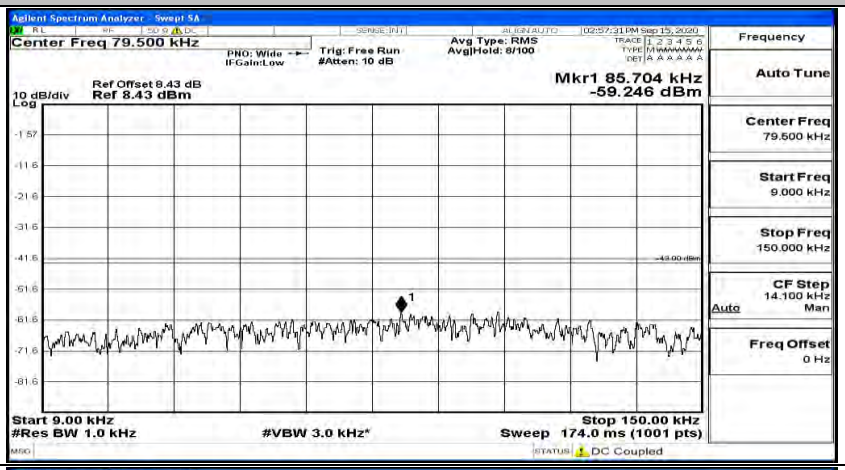


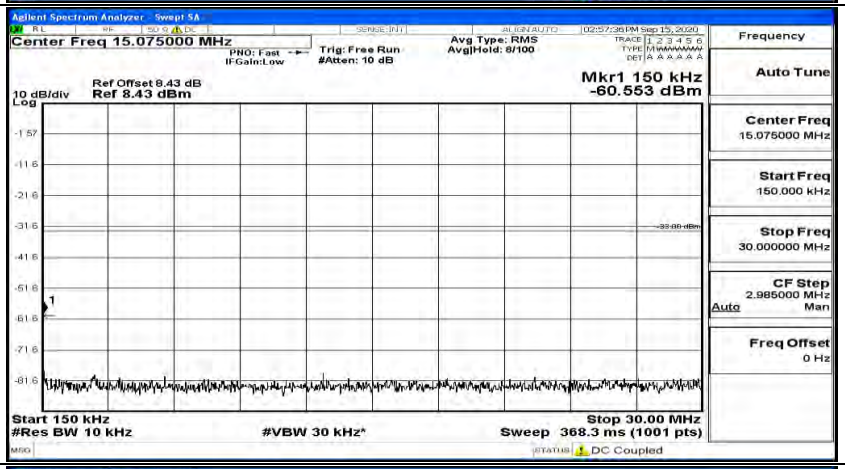
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7

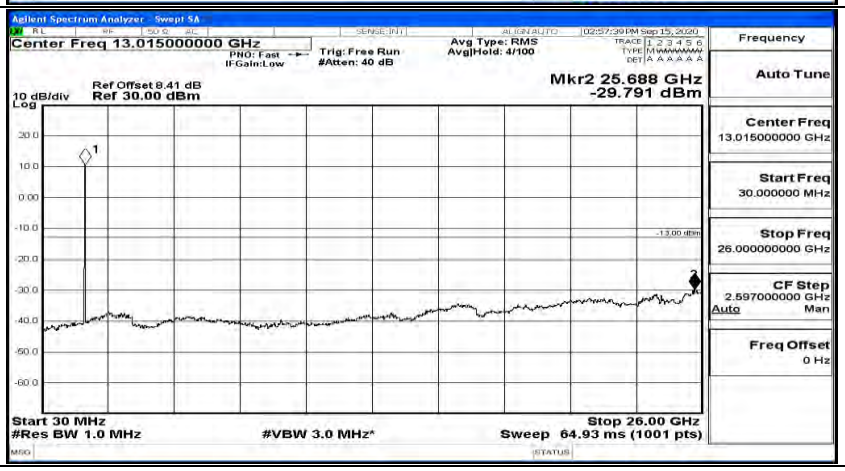




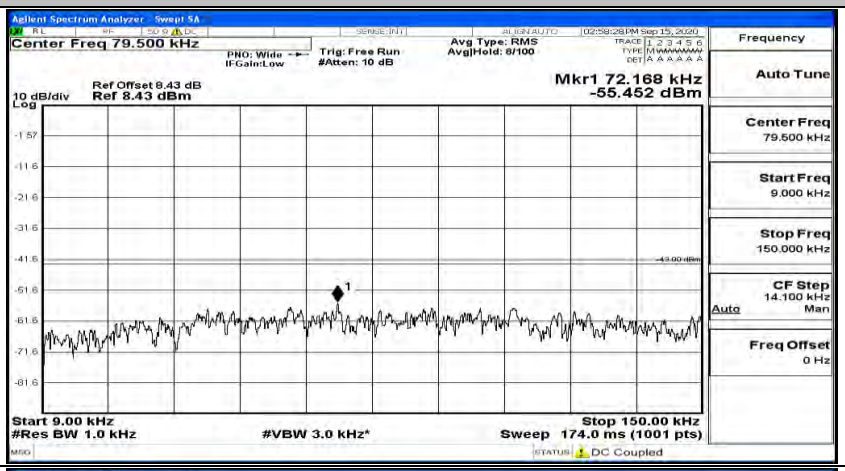
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

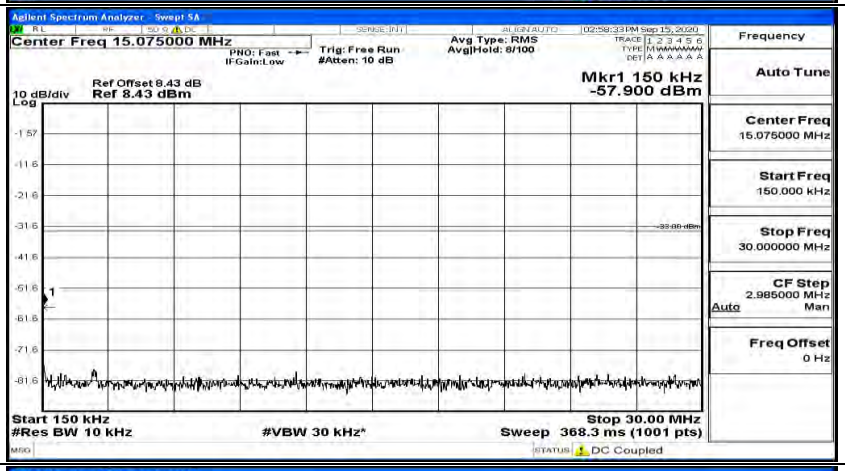




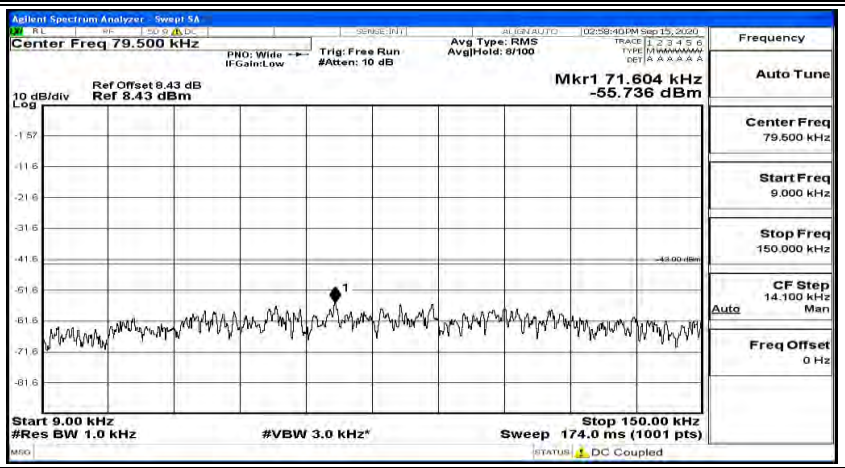


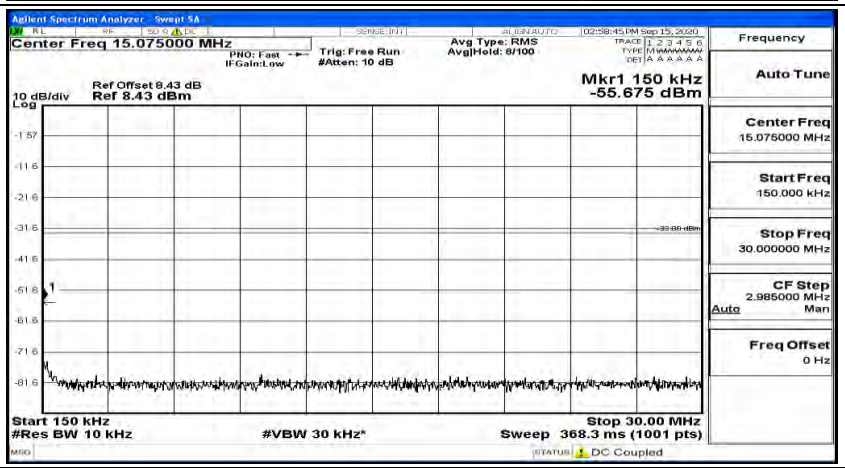
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



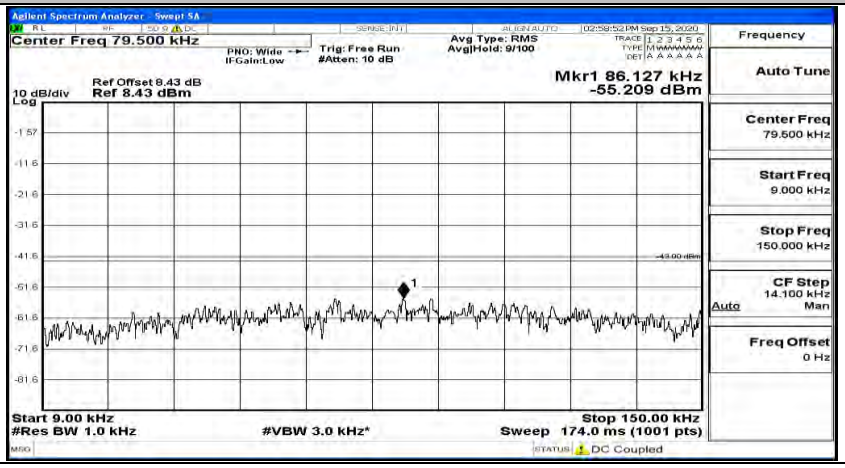


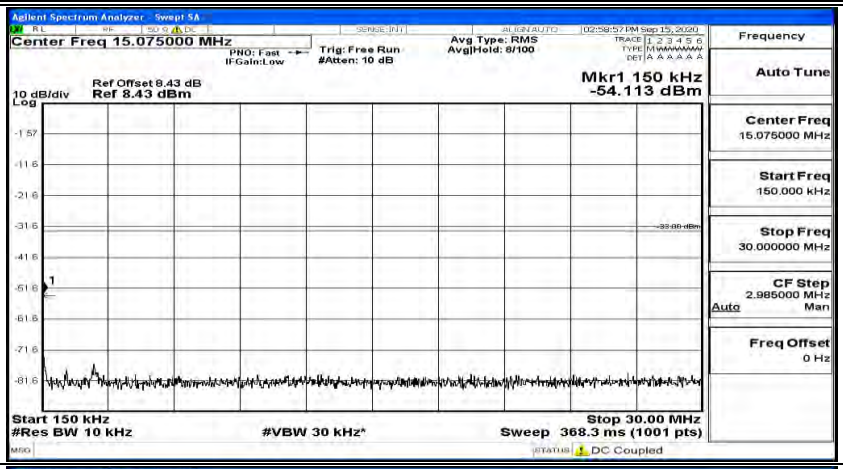
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7





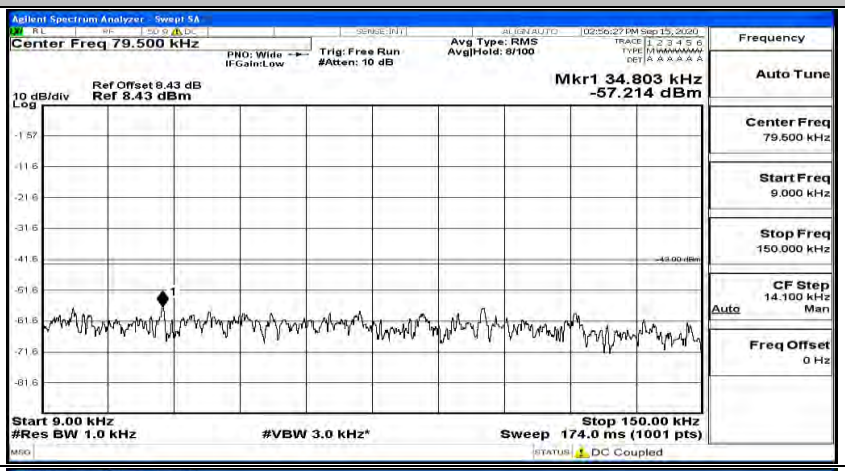
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

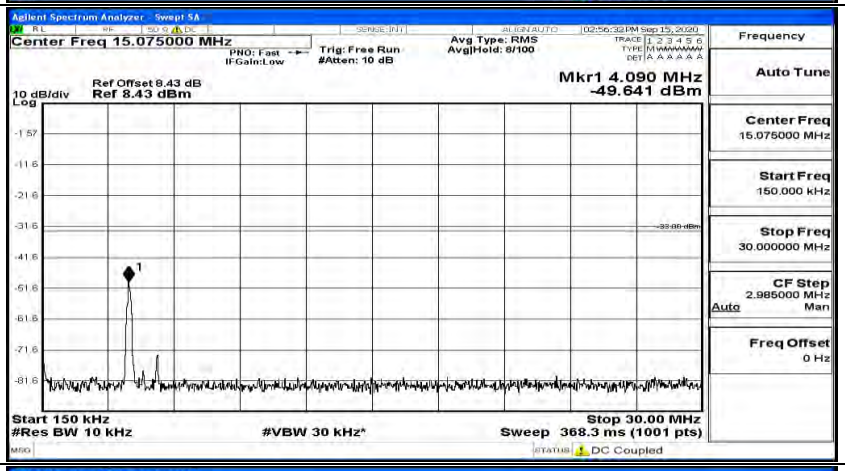



Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
02:58:57 PM Sep 15, 2020
Frequency
Auto Tune
Mkr1 150 kHz
-54.113 dBm
Ref Offset 8.43 dB
10 dB/div
Log
Ref 8.43 dBm
-1.57
-11.6
-21.6
-31.6
-41.6
-51.6
-61.6
-71.6
-81.6
-33.86 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled

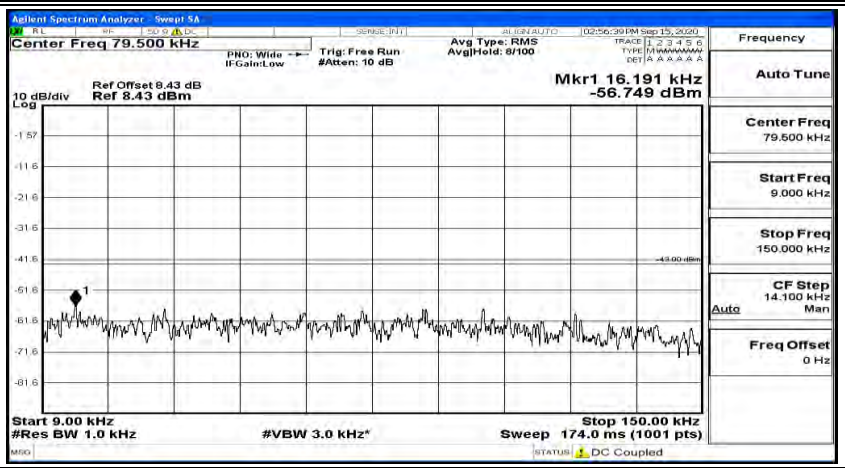
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 4/100
02:59:00 PM Sep 15, 2020
Frequency
Auto Tune
Mkr2 25.870 GHz
-30.071 dBm
Ref Offset 8.41 dB
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)

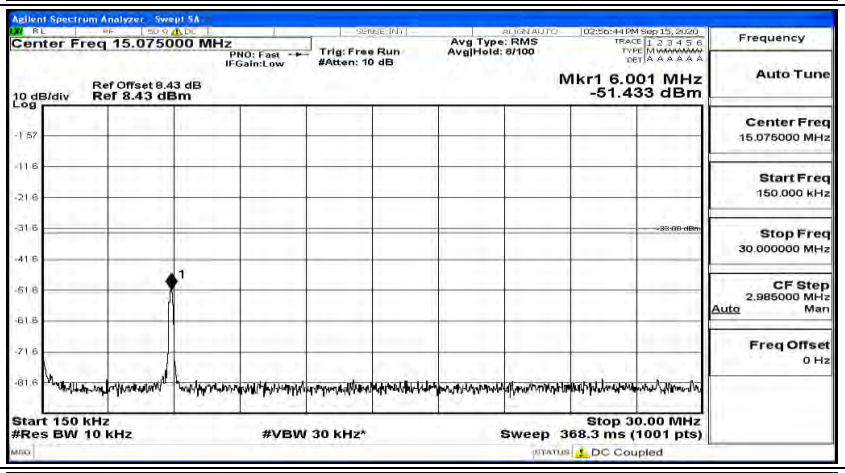
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

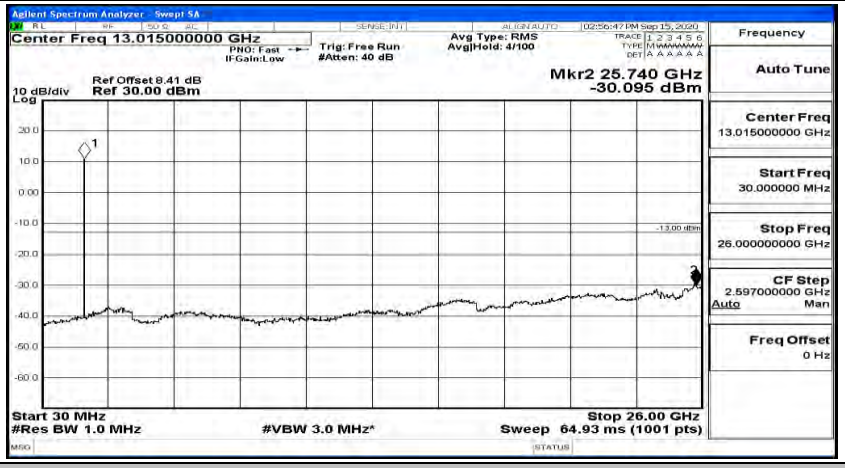




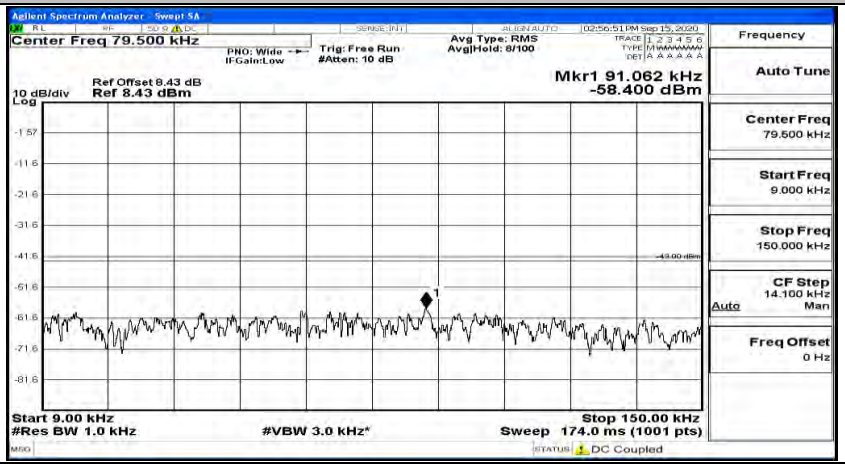
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

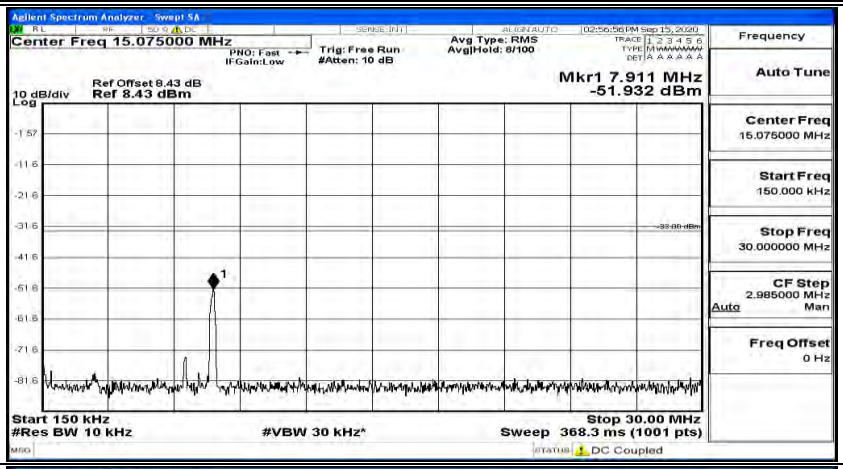






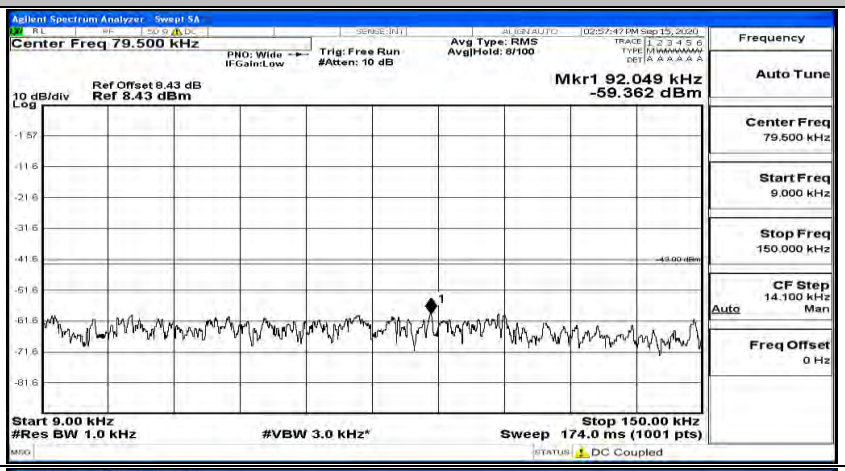
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

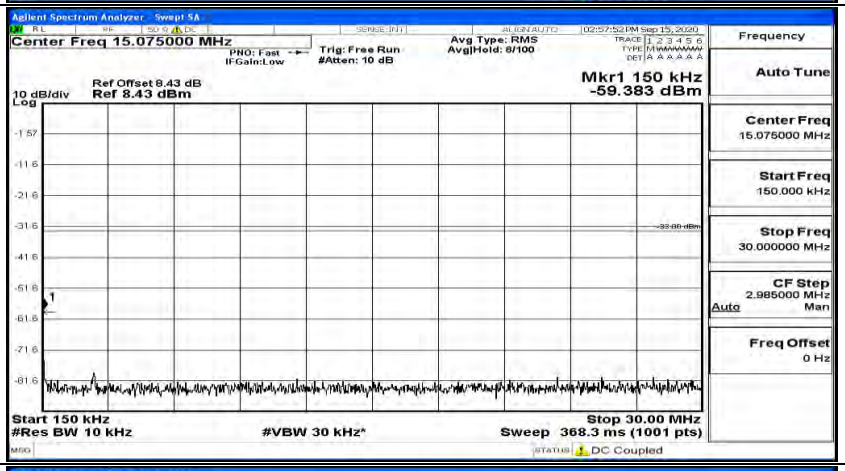



Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
02:56:58 PM Sep 15, 2020
Frequency
Auto Tune
Mkr1 7.911 MHz
-51.932 dBm
Ref Offset 8.43 dB
10 dB/div
Log
Ref 8.43 dBm
-1.57
-11.6
-21.6
-31.6
-41.6
-51.6
-61.6
-71.6
-81.6
-33.86 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled

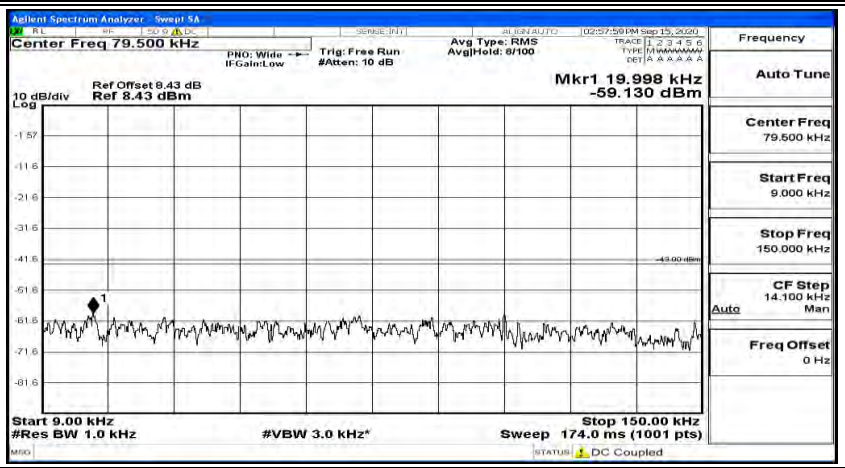
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 4/100
02:56:59 PM Sep 15, 2020
Frequency
Auto Tune
Mkr2 25.974 GHz
-30.270 dBm
Ref Offset 8.41 dB
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)

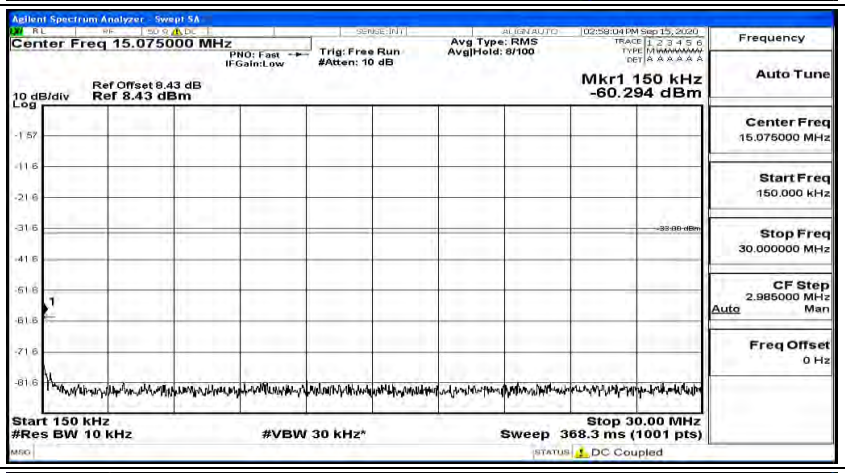
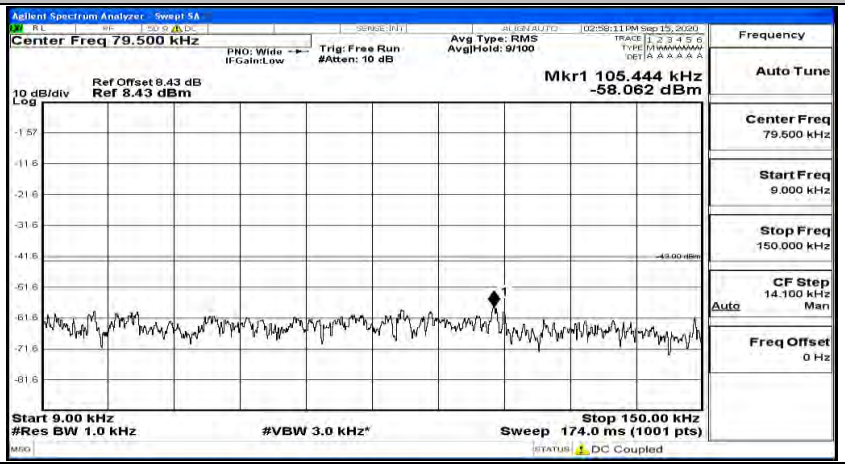
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0





(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7





(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14