Appendix F Test Data for E-UTRA Band 12

Product Name: BluePad-55 v2
Trade Mark: N/A
Test Model: BluePad-55 v2

Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

F.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	22.10	21.60	PASS
		1	3	22.08	21.54	PASS
		1	5	21.90	21.32	PASS
		3	0	22.18	21.39	PASS
		3	2	22.18	21.37	PASS
		3	3	22.08	21.28	PASS
		6	0	22.15	21.19	PASS
	MCH	1	0	23.83	23.23	PASS
		1	3	23.98	23.43	PASS
		1	5	24.00	23.40	PASS
		3	0	23.81	22.84	PASS
		3	2	23.92	23.00	PASS
		3	3	23.90	22.87	PASS
		6	0	23.25	22.13	PASS
	HCH	1	0	24.80	23.72	PASS
		1	3	24.68	23.78	PASS
		1	5	24.47	23.79	PASS
		3	0	24.81	23.93	PASS
		3	2	24.72	23.86	PASS
		3	3	24.59	23.75	PASS
		6	0	23.94	23.24	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.35	21.62	PASS
		1	7	22.17	21.52	PASS
		1	14	21.87	21.15	PASS
		8	0	22.25	21.36	PASS
		8	4	22.11	21.25	PASS
		8	7	21.93	21.04	PASS
		15	0	22.09	21.11	PASS
	MCH	1	0	23.37	22.64	PASS
		1	7	24.04	23.34	PASS
		1	14	23.90	23.20	PASS
		8	0	23.31	22.00	PASS
		8	4	23.38	22.29	PASS
		8	7	23.35	22.47	PASS
		15	0	23.24	22.25	PASS
	HCH	1	0	24.52	23.76	PASS
		1	7	24.98	24.15	PASS
		1	14	24.41	23.86	PASS
		8	0	24.03	23.09	PASS
		8	4	24.06	23.08	PASS
		8	7	23.90	22.84	PASS
		15	0	23.97	22.86	PASS

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	22.26	21.65	PASS
		1	12	22.07	21.51	PASS
		1	24	21.94	21.38	PASS
		12	0	22.11	21.27	PASS
		12	6	21.92	21.11	PASS
		12	13	21.76	20.93	PASS
		25	0	21.91	20.98	PASS
	MCH	1	0	22.83	22.25	PASS
		1	12	24.03	23.47	PASS
		1	24	23.63	23.06	PASS
		12	0	23.13	22.40	PASS
		12	6	23.41	22.55	PASS
		12	13	23.37	22.45	PASS
		25	0	23.28	22.22	PASS
	HCH	1	0	23.53	22.57	PASS
		1	12	24.76	23.78	PASS
		1	24	24.39	23.31	PASS
		12	0	23.71	22.65	PASS
		12	6	23.90	22.96	PASS
		12	13	23.90	22.85	PASS
		25	0	23.80	23.05	PASS

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.64	20.93	PASS
		1	24	22.40	21.69	PASS
		1	49	23.29	22.58	PASS
		25	0	21.74	20.75	PASS
		25	12	22.41	21.40	PASS
		25	25	23.17	22.19	PASS
		50	0	22.45	21.51	PASS
	MCH	1	0	21.01	20.30	PASS
		1	24	24.03	23.36	PASS
		1	49	23.08	22.40	PASS
		25	0	22.76	21.75	PASS
		25	12	23.73	22.75	PASS
		25	25	23.35	22.40	PASS
		50	0	23.16	22.20	PASS
	HCH	1	0	22.86	22.30	PASS
		1	24	23.83	23.29	PASS
		1	49	23.94	23.42	PASS
		25	0	23.46	22.63	PASS
		25	12	23.60	22.68	PASS
		25	25	23.76	22.87	PASS
		50	0	23.58	22.56	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)

F.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	5.54	<13	PASS
	MCH	5.33	<13	PASS
	HCH	4.48	<13	PASS
16QAM	LCH	6.15	<13	PASS
	MCH	6.28	<13	PASS
	HCH	5.29	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.56	<13	PASS
	MCH	5.35	<13	PASS
	HCH	4.8	<13	PASS
16QAM	LCH	6.34	<13	PASS
	MCH	6.31	<13	PASS
	HCH	5.58	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.95	<13	PASS
	MCH	5.34	<13	PASS
	HCH	4.98	<13	PASS
16QAM	LCH	6.52	<13	PASS
	MCH	6.22	<13	PASS
	HCH	5.83	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.72	<13	PASS
	MCH	5.48	<13	PASS
	HCH	5.3	<13	PASS
16QAM	LCH	6.67	<13	PASS
	MCH	6.13	<13	PASS
	HCH	6.15	<13	PASS

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK
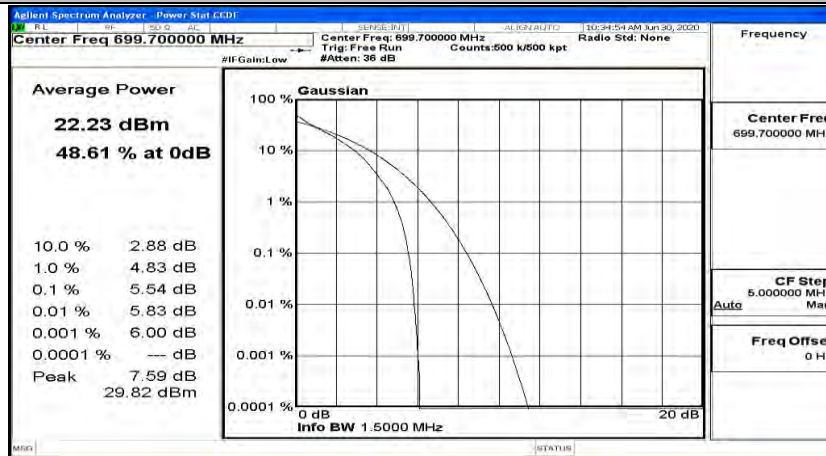
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK
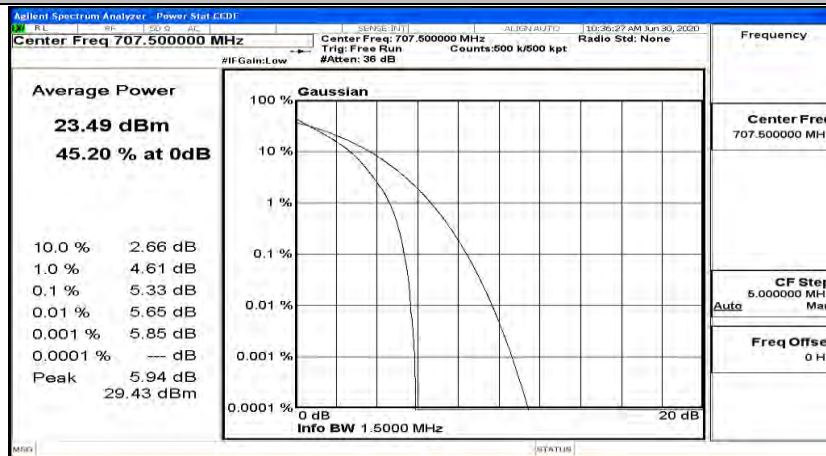
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK
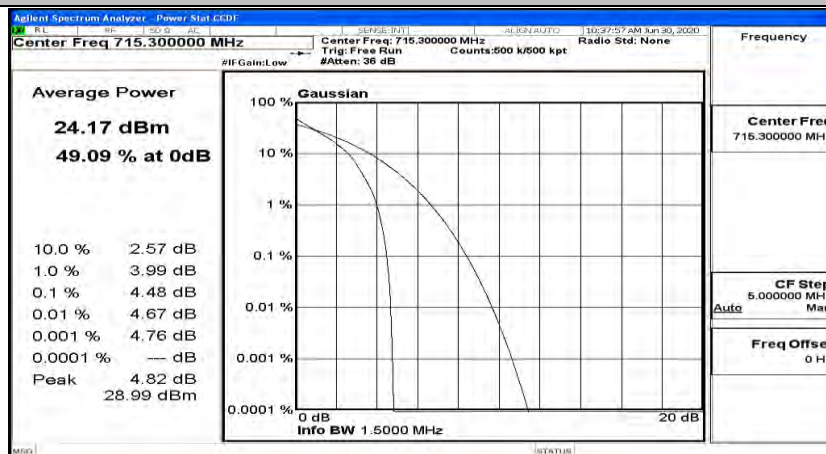
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM
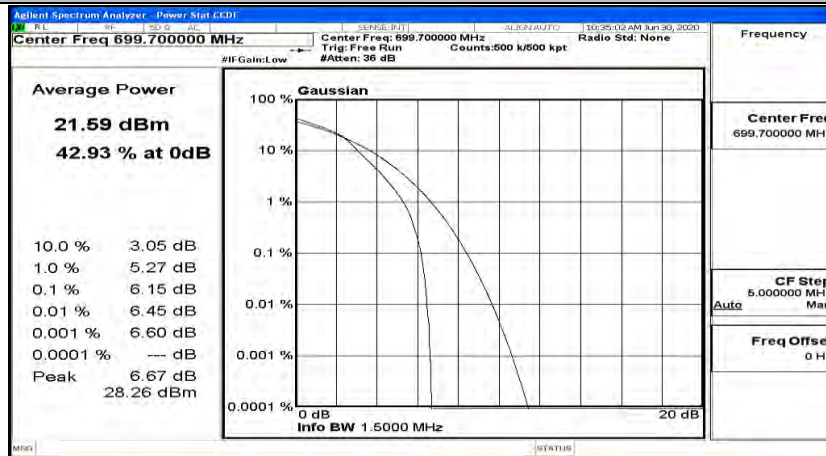
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM
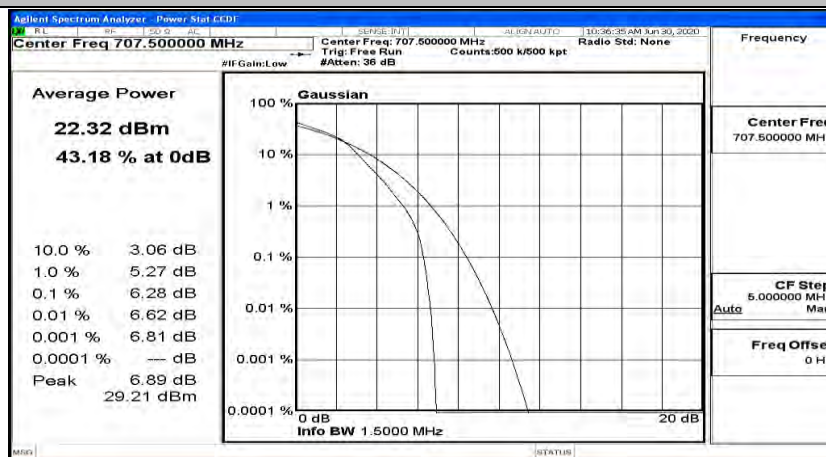
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM
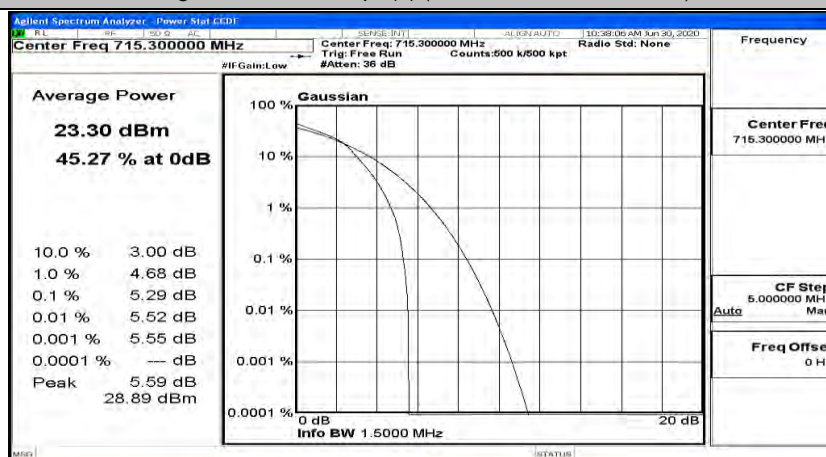
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK
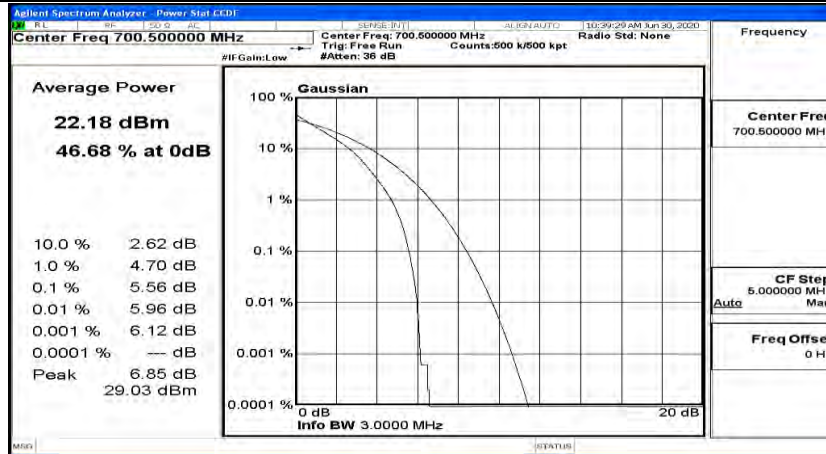
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK
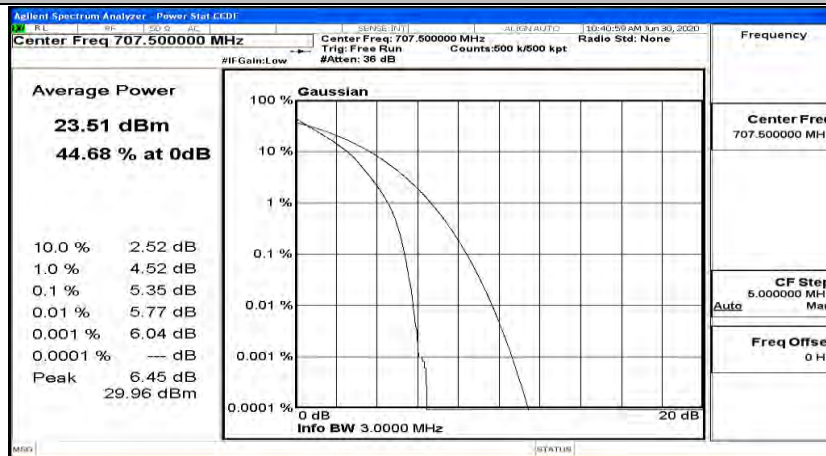
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK
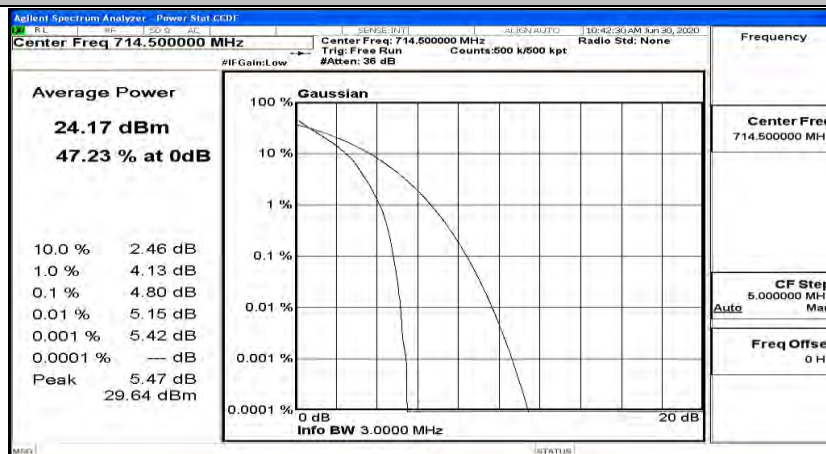
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM
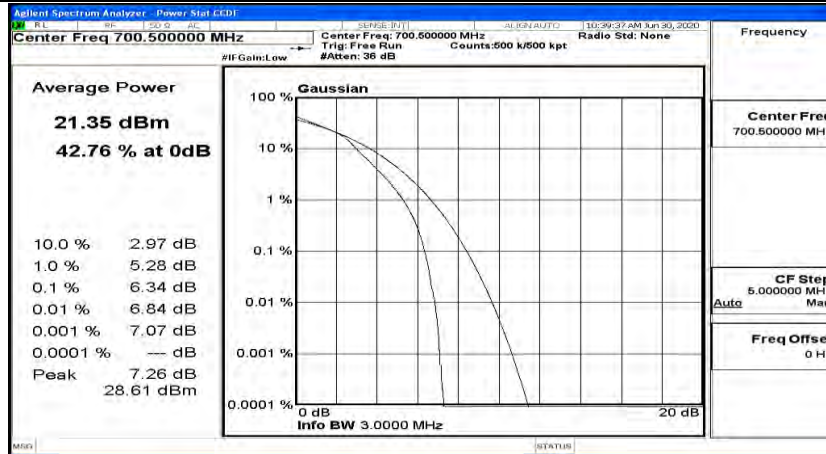
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM
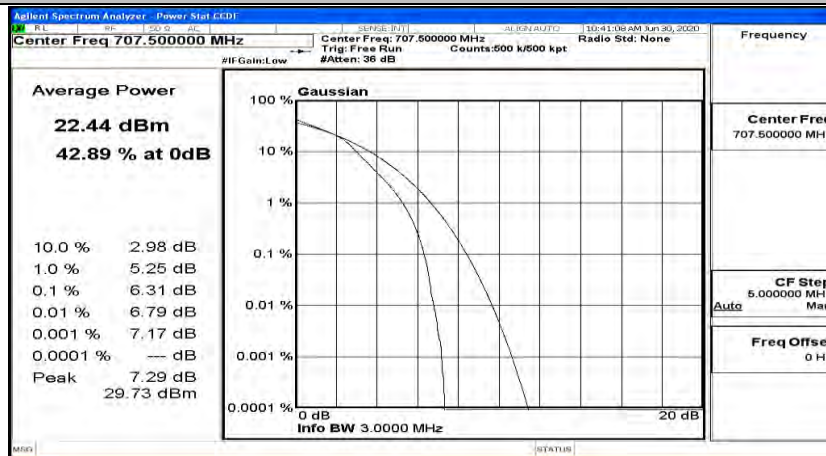
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM

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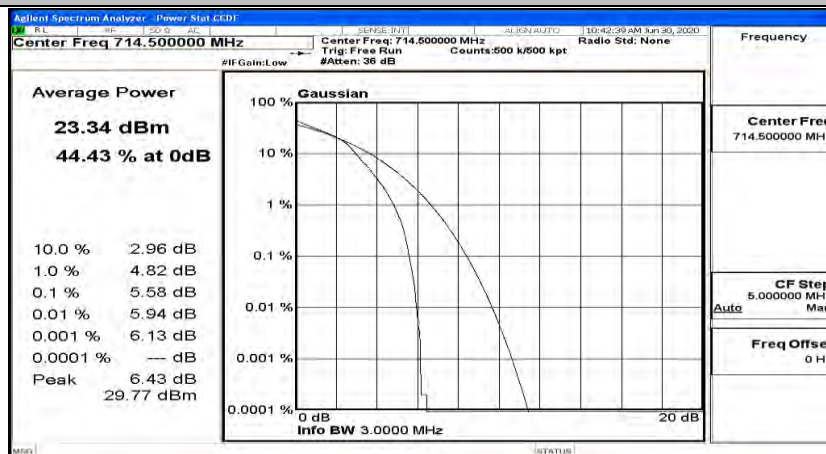
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
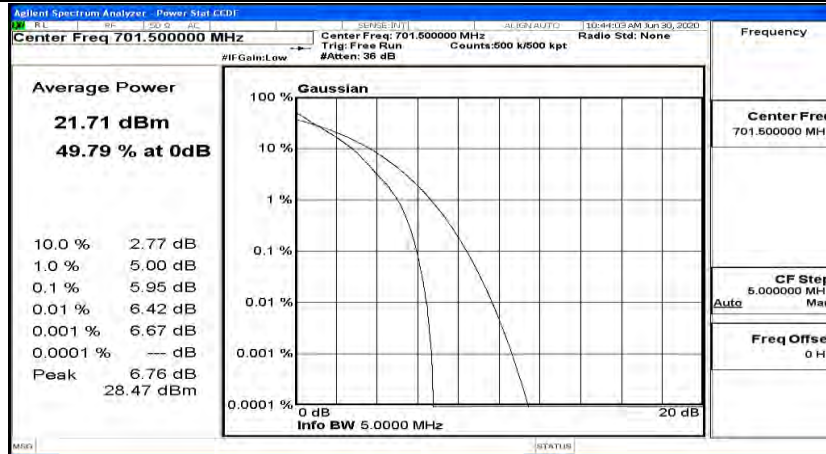
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK
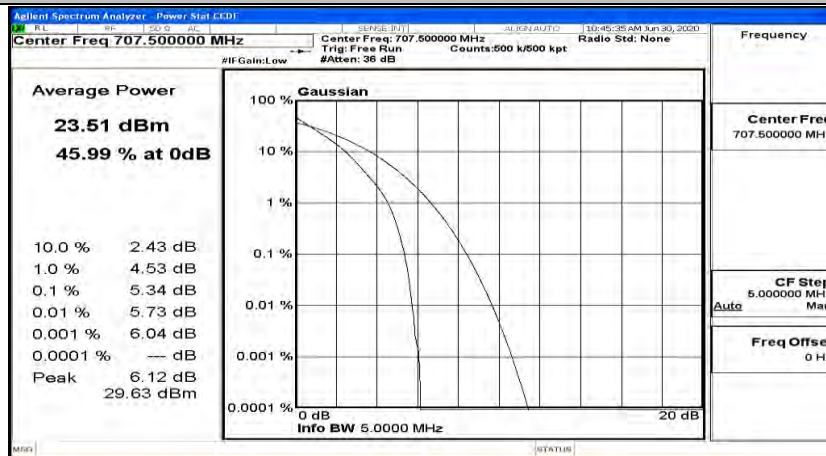
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
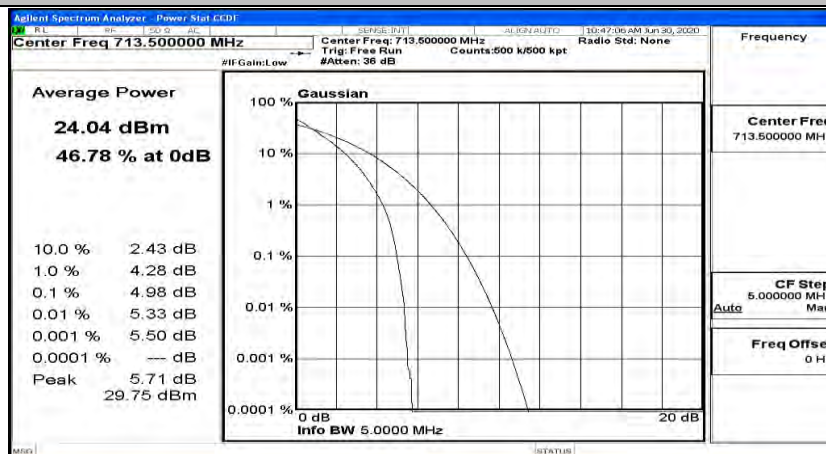
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
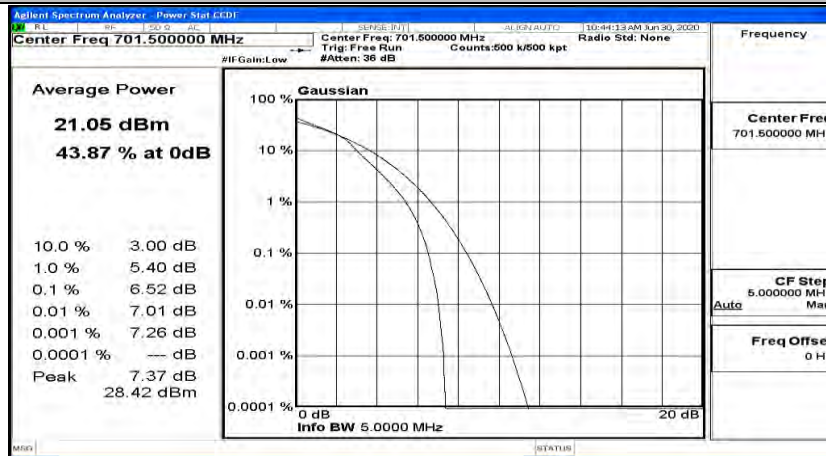
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM
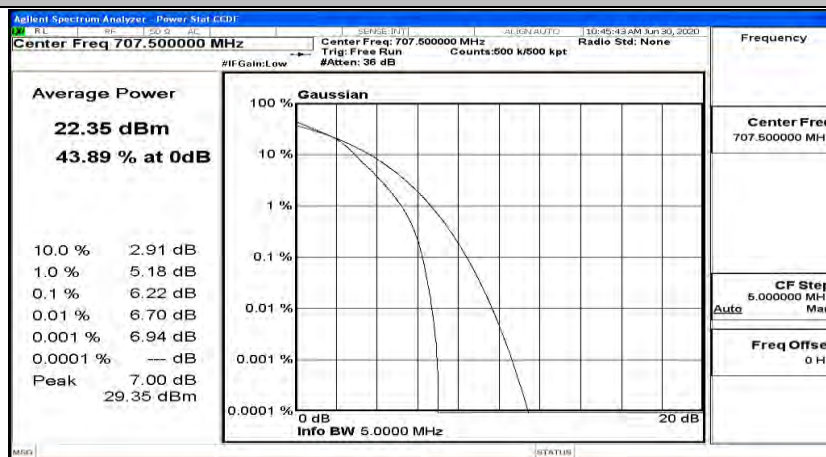
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
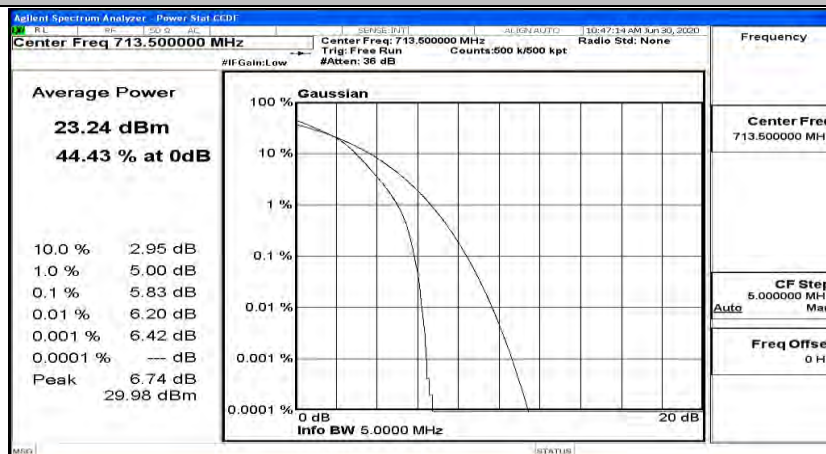
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
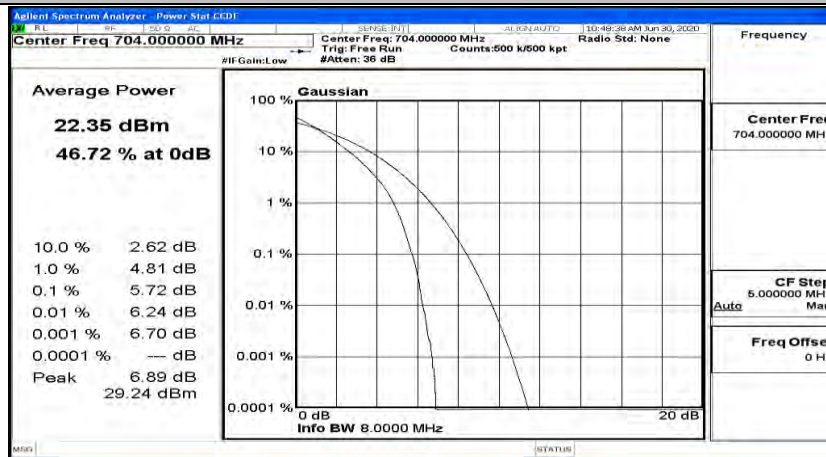
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK
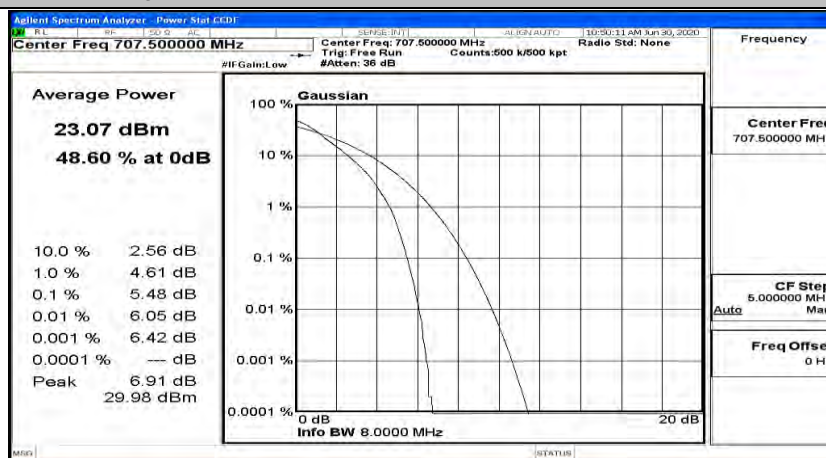
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
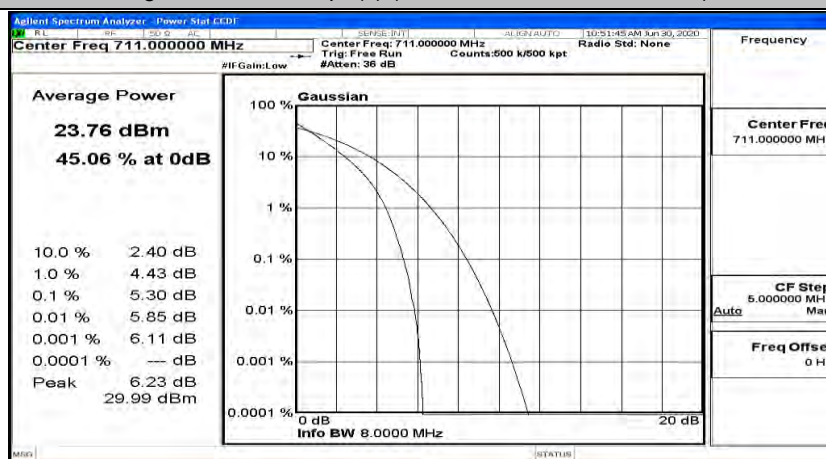
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
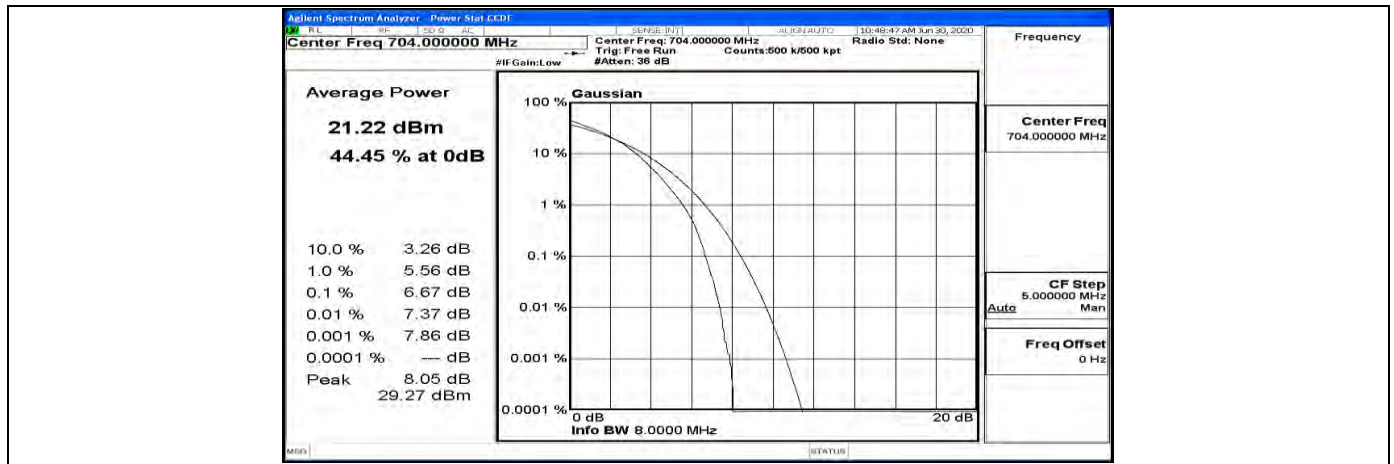
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM
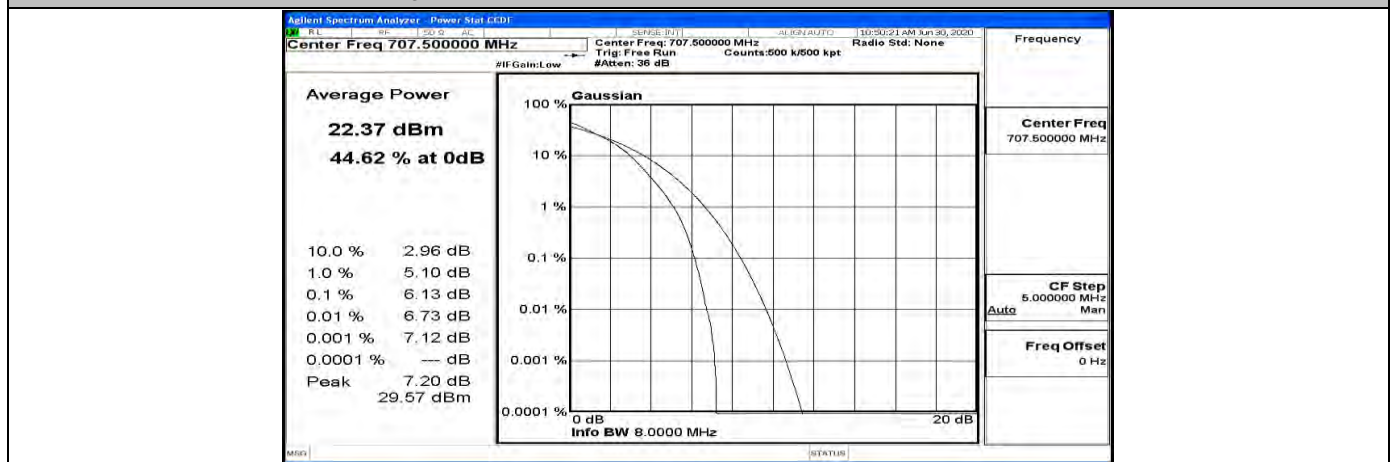
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
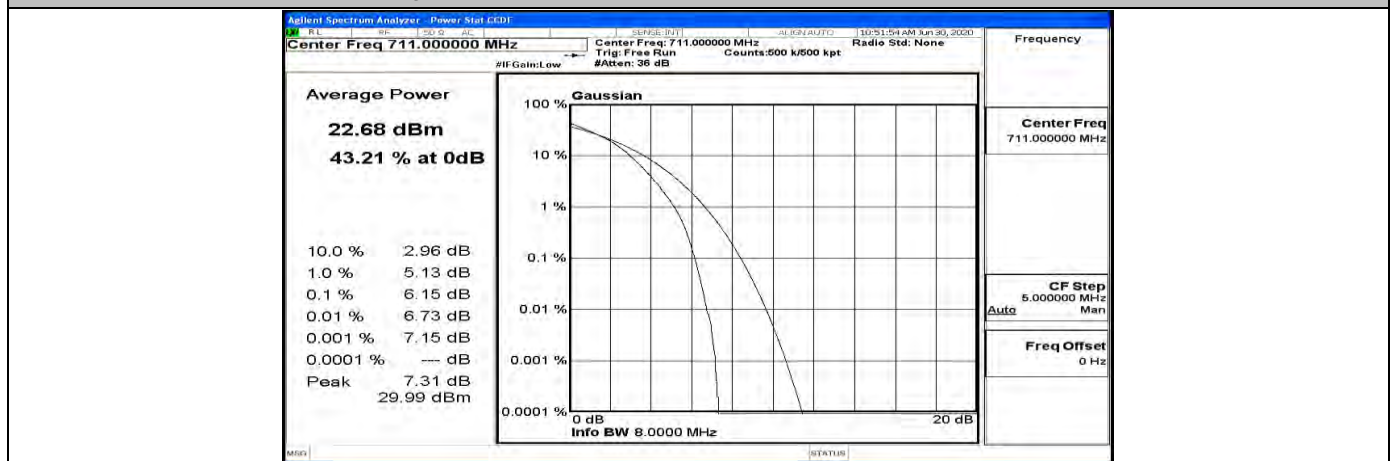
F.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0758	1.227	PASS
	MCH	1.0762	1.198	PASS
	HCH	1.0785	1.239	PASS
16QAM	LCH	1.0826	1.260	PASS
	MCH	1.0781	1.241	PASS
	HCH	1.0776	1.230	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6855	2.901	PASS
	MCH	2.6754	2.876	PASS
	HCH	2.6812	2.888	PASS
16QAM	LCH	2.6838	2.899	PASS
	MCH	2.6787	2.876	PASS
	HCH	2.6860	2.888	PASS

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4788	4.803	PASS
	MCH	4.4640	4.755	PASS
	HCH	4.4633	4.808	PASS
16QAM	LCH	4.4770	4.811	PASS
	MCH	4.4609	4.786	PASS
	HCH	4.4748	4.776	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9365	9.470	PASS
	MCH	8.9036	9.446	PASS
	HCH	8.9167	9.404	PASS
16QAM	LCH	8.9368	9.368	PASS
	MCH	8.9018	9.420	PASS
	HCH	8.9307	9.393	PASS

EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK
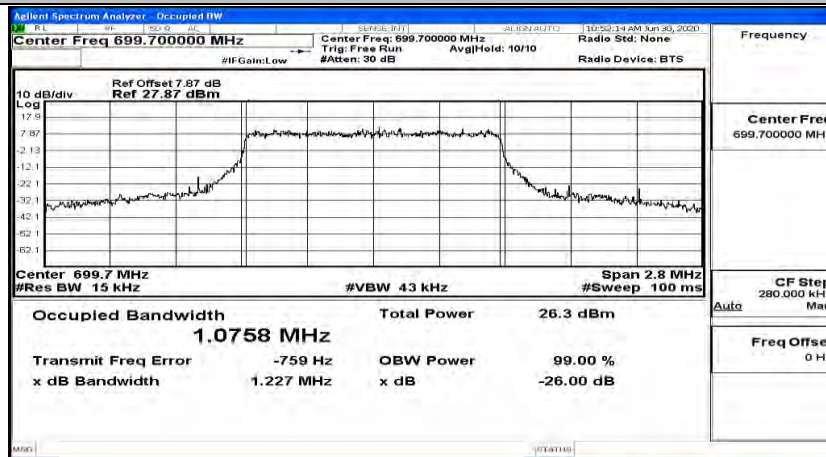
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK
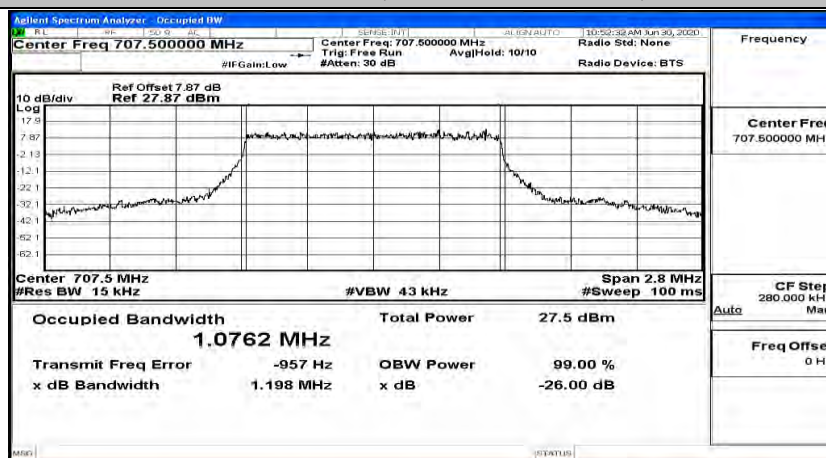
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK
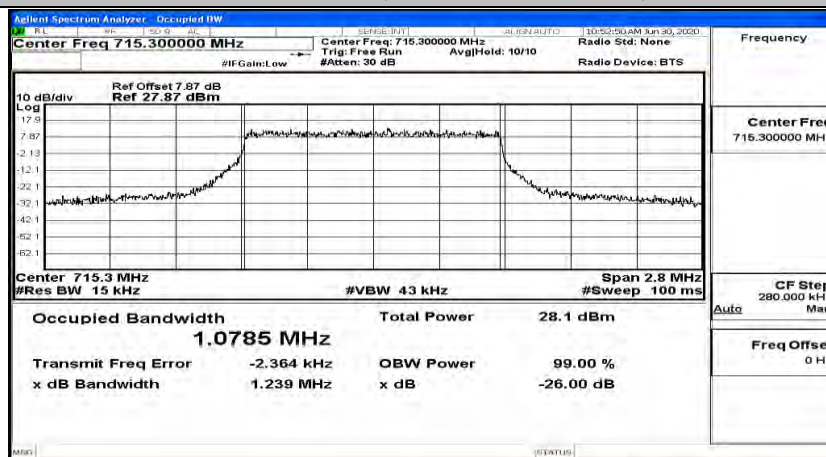
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM
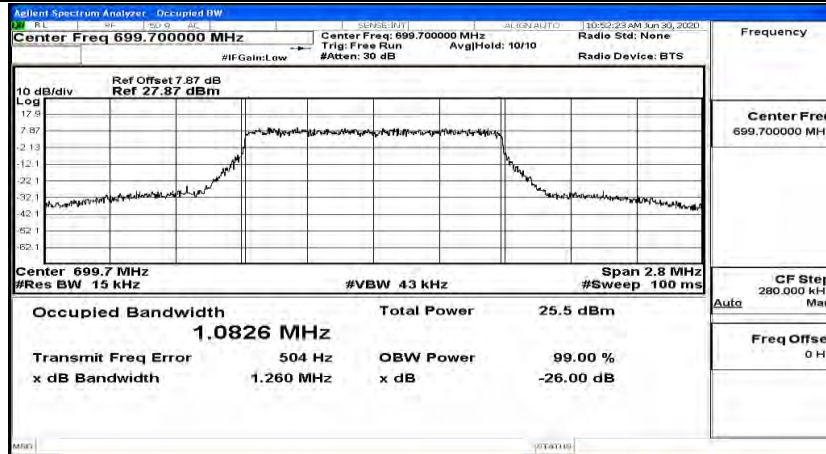
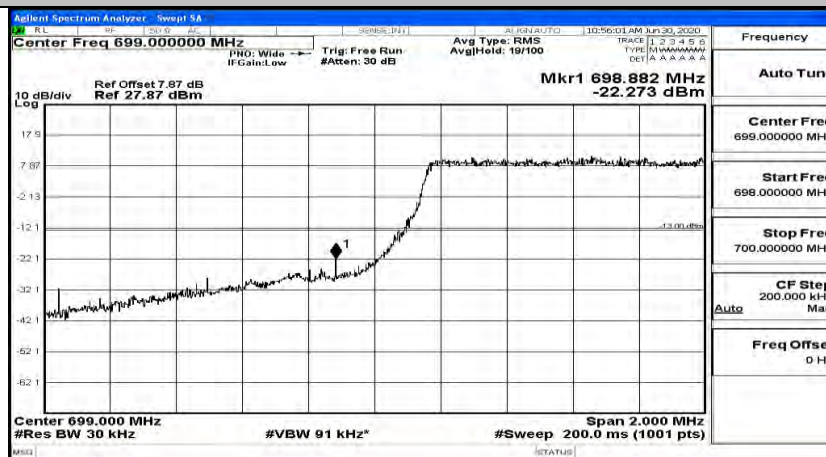EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM
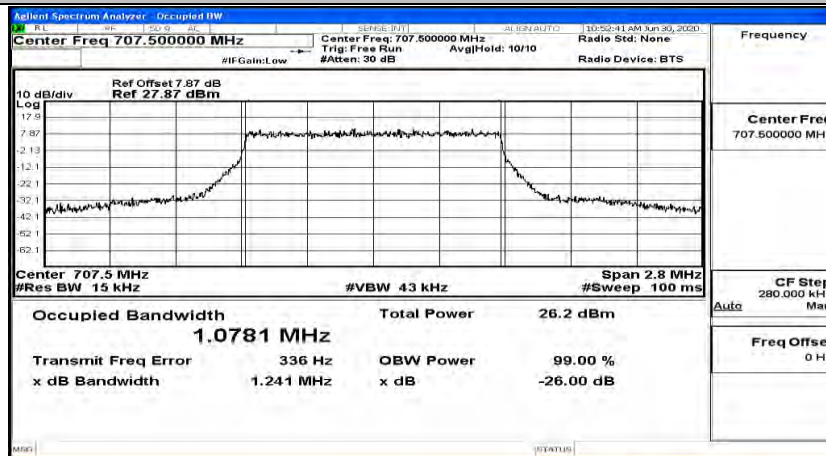
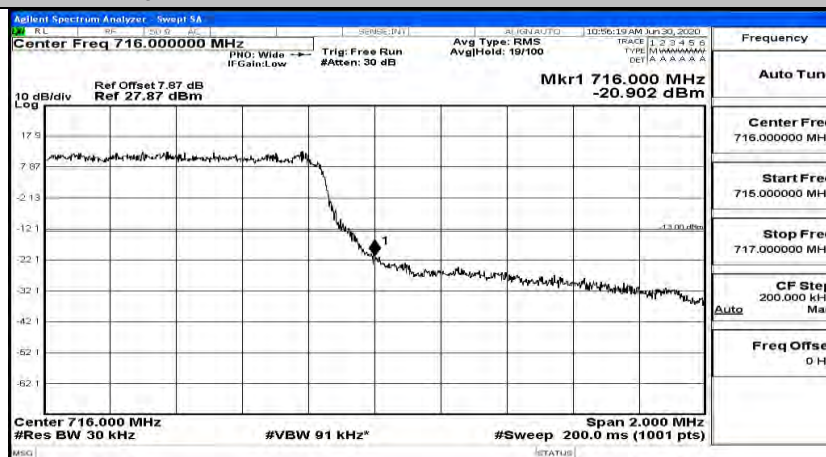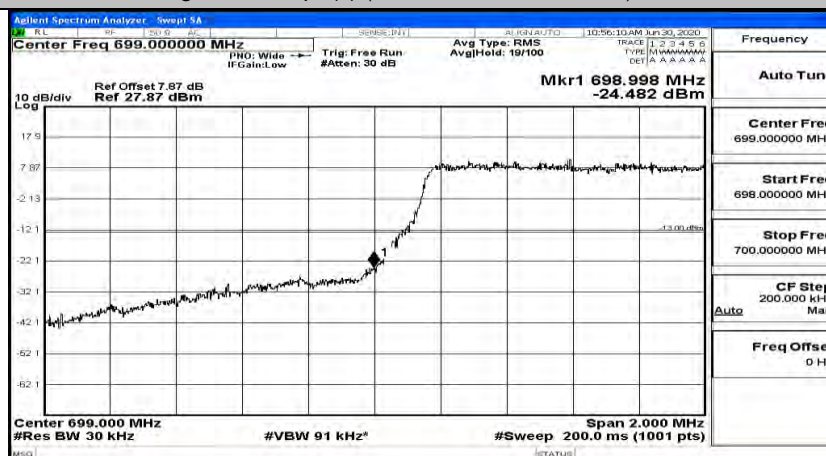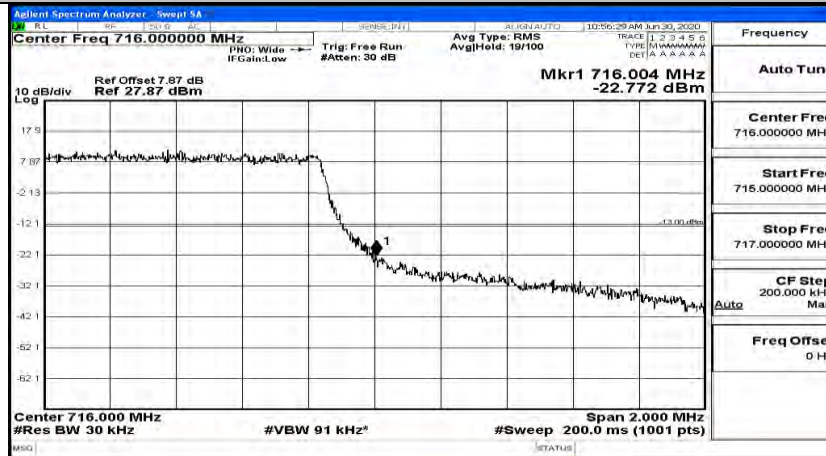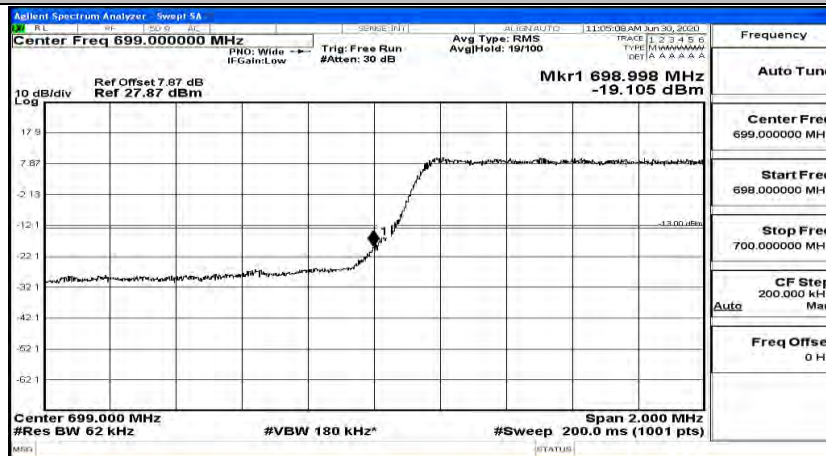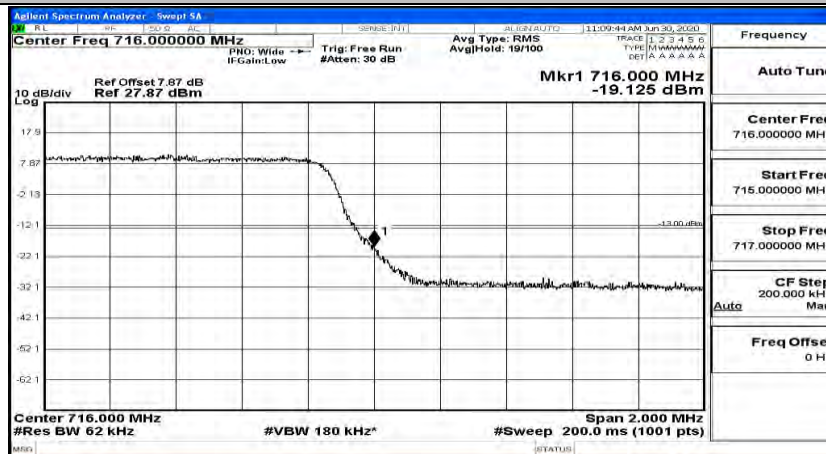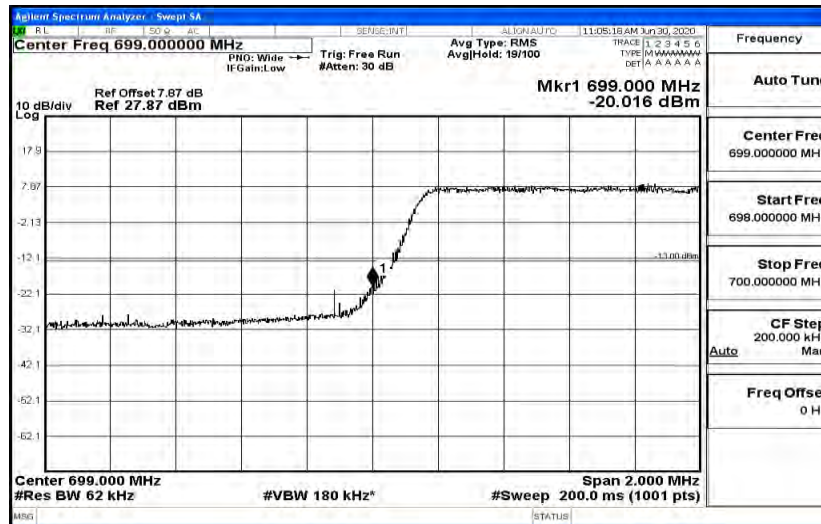EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM
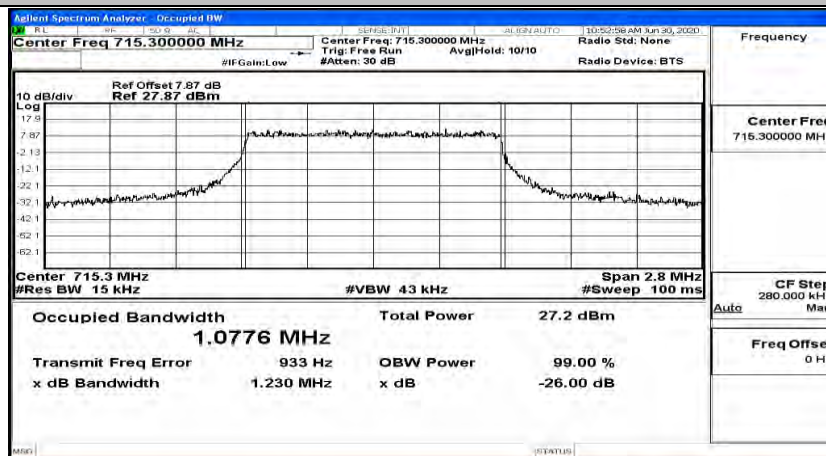
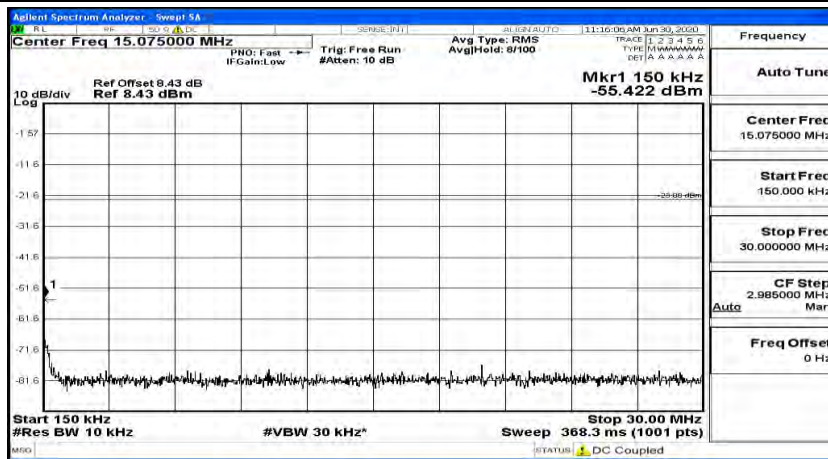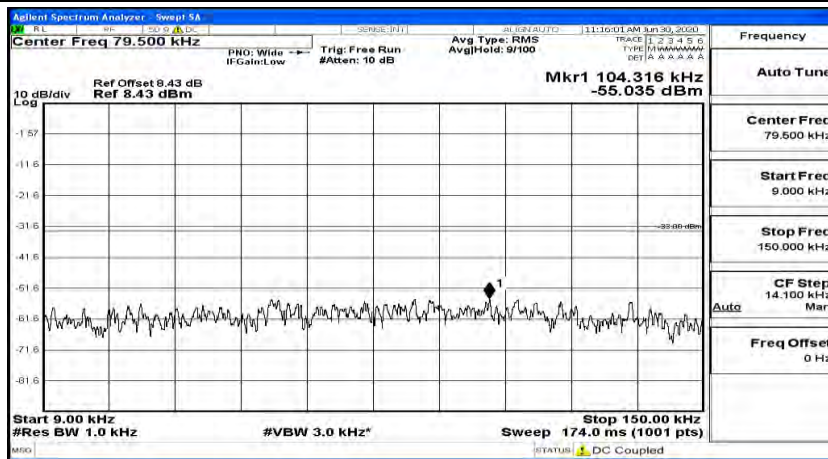| EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK |
|---|

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

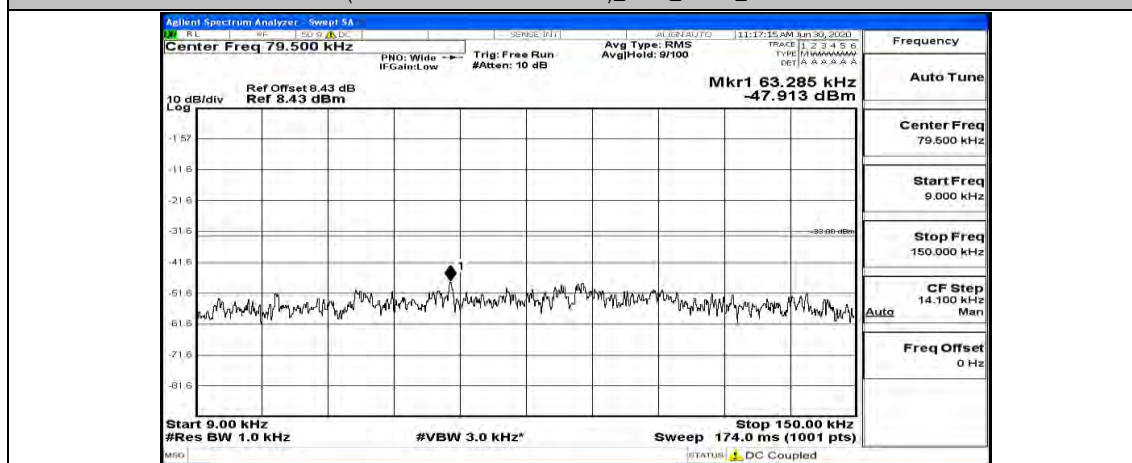| EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM |
|---|

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
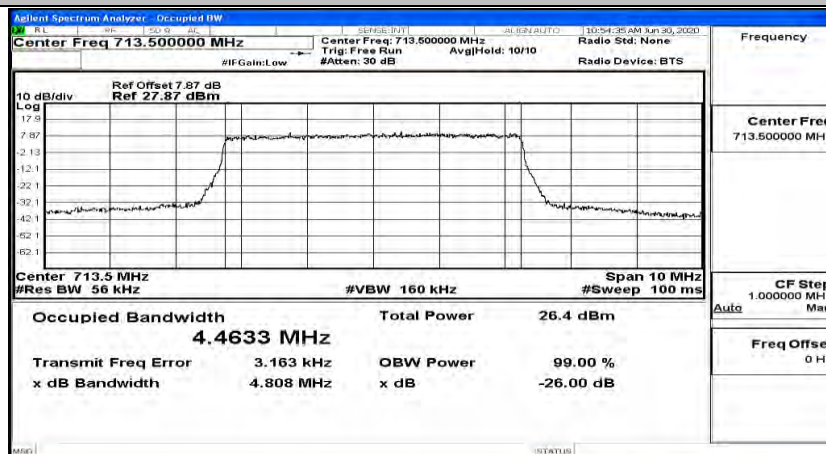
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
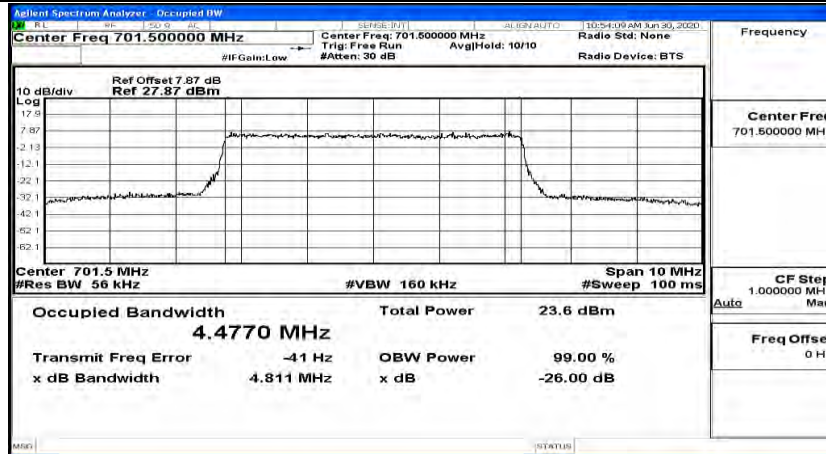
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM
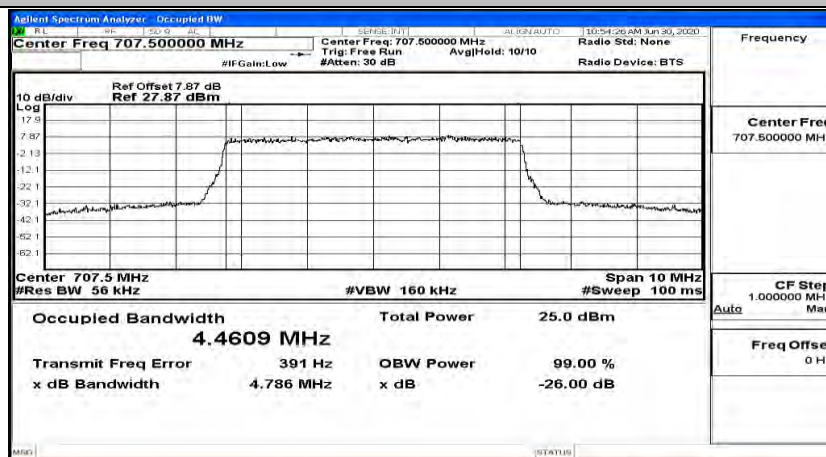
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
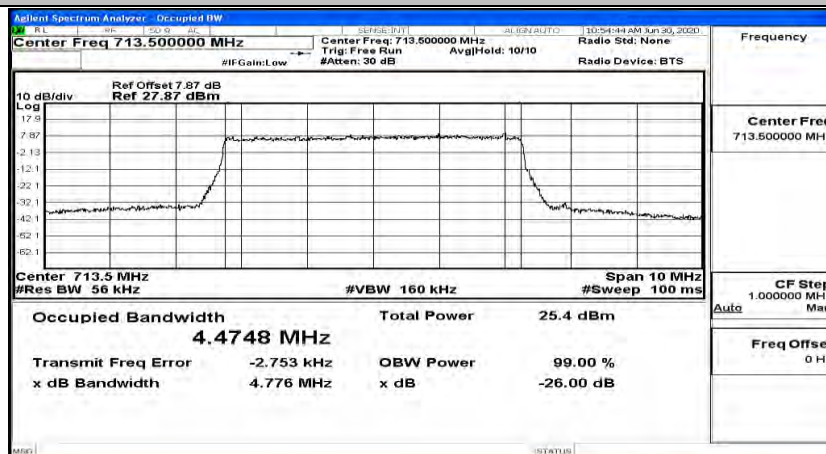
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
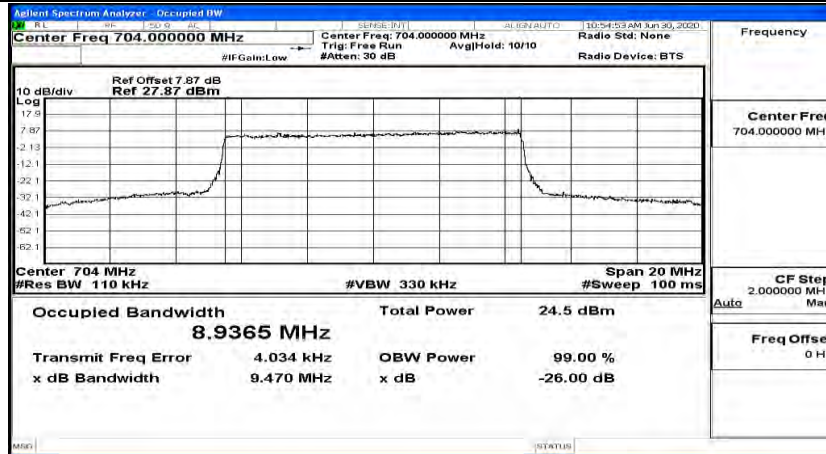
| EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK |
|---|
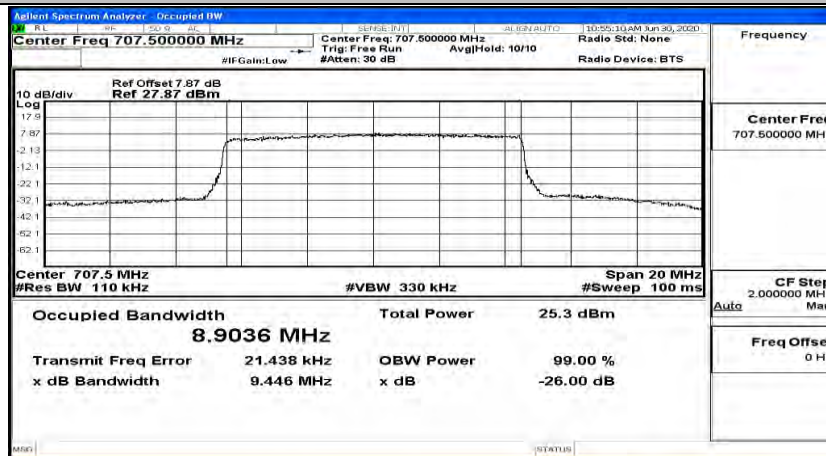
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
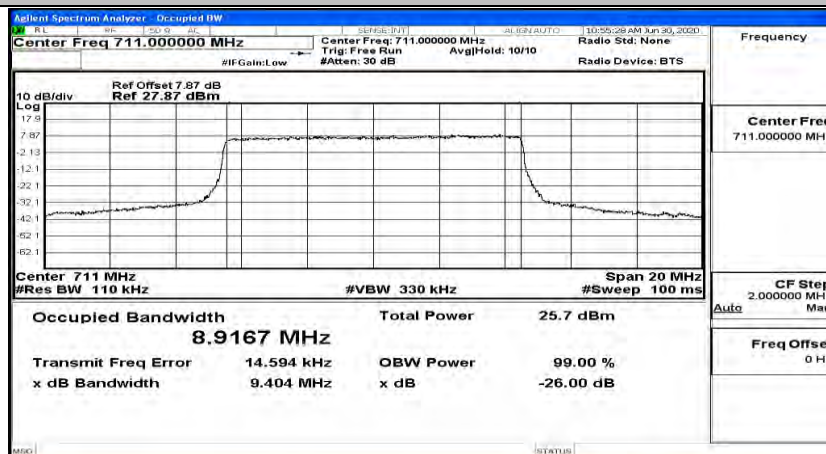
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
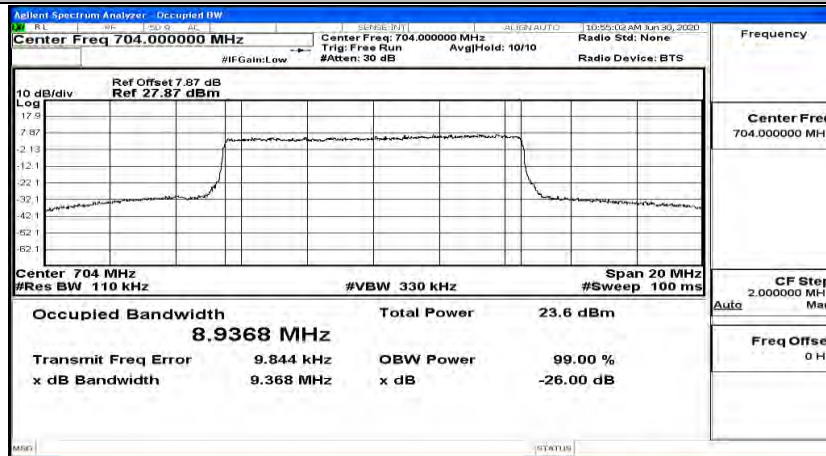
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM
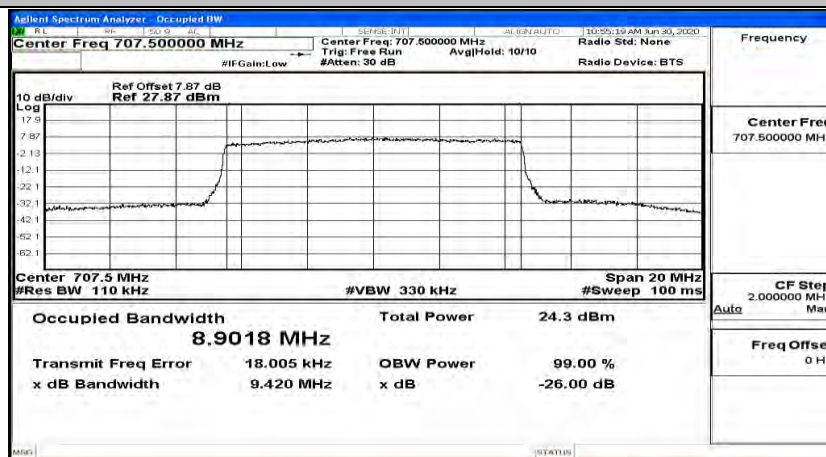
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
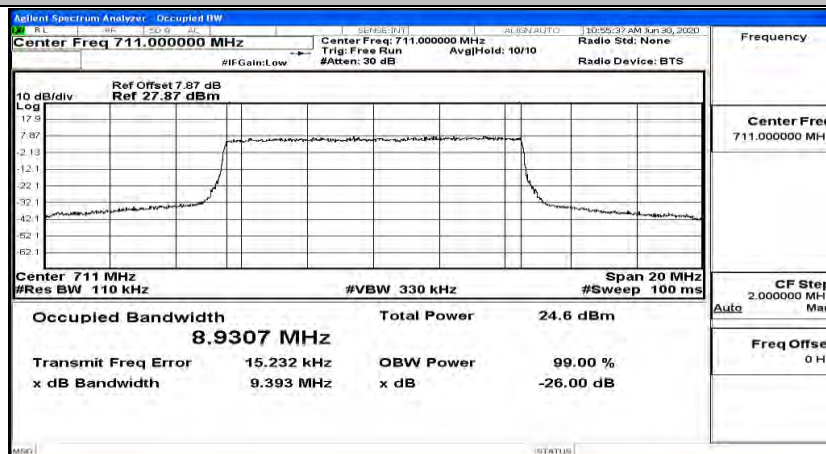
F.4 Band Edge

| 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

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
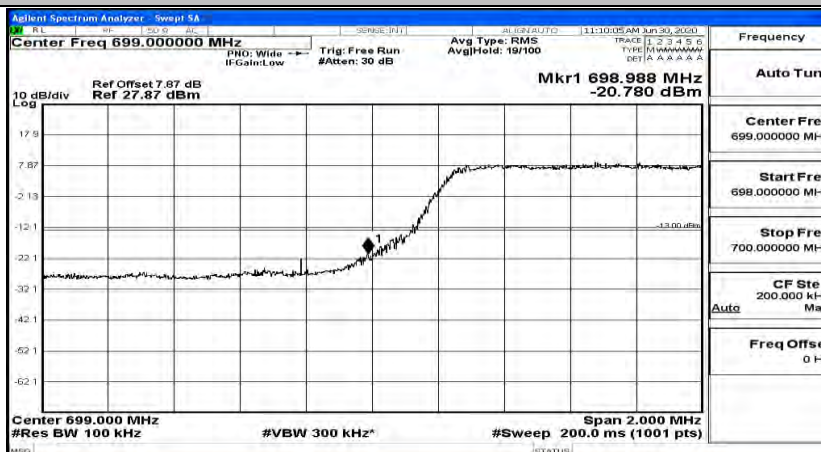
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
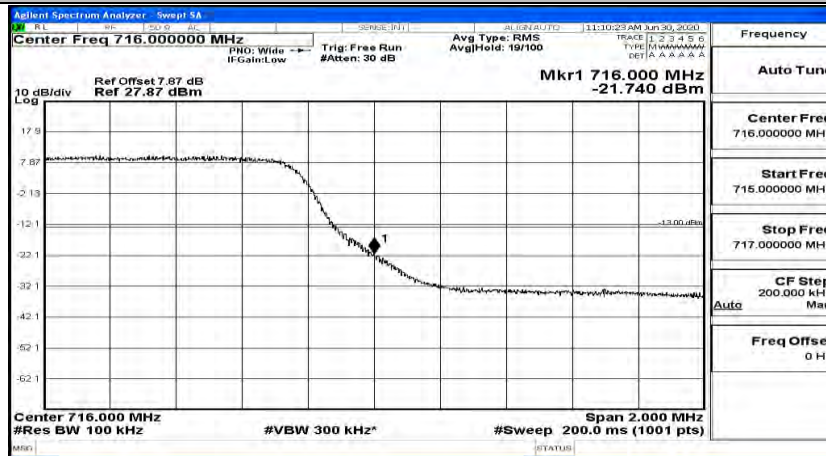
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
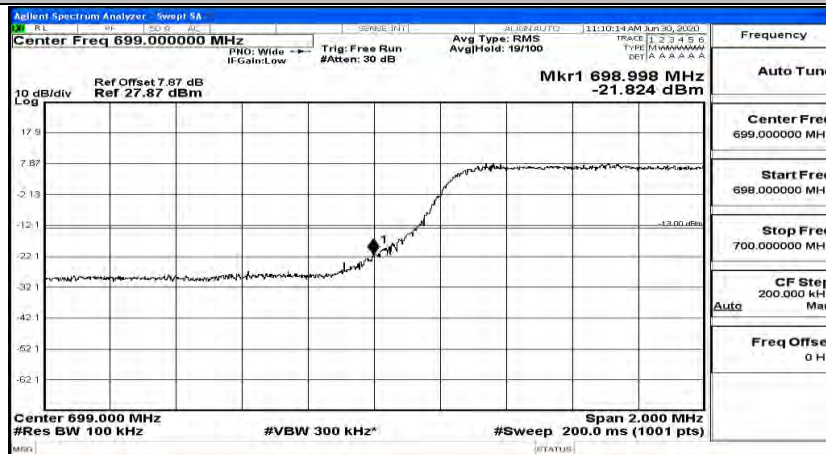
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
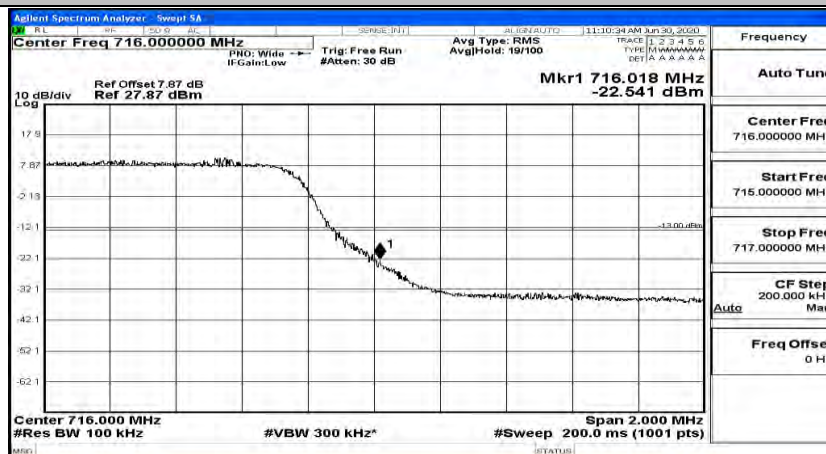
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
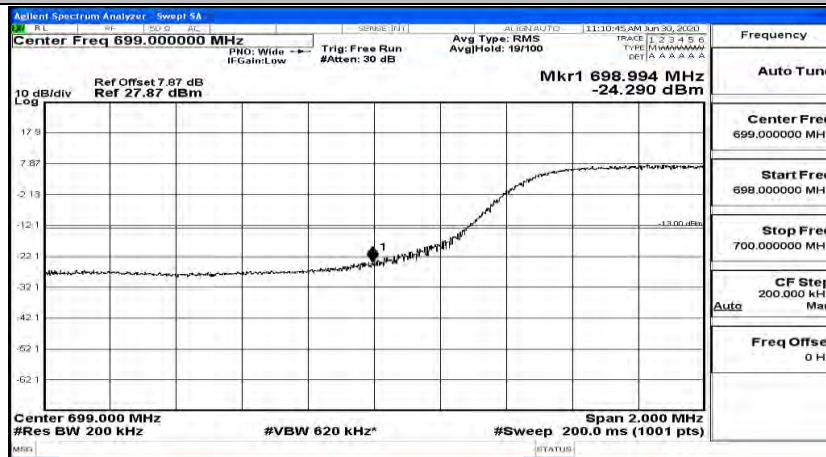
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
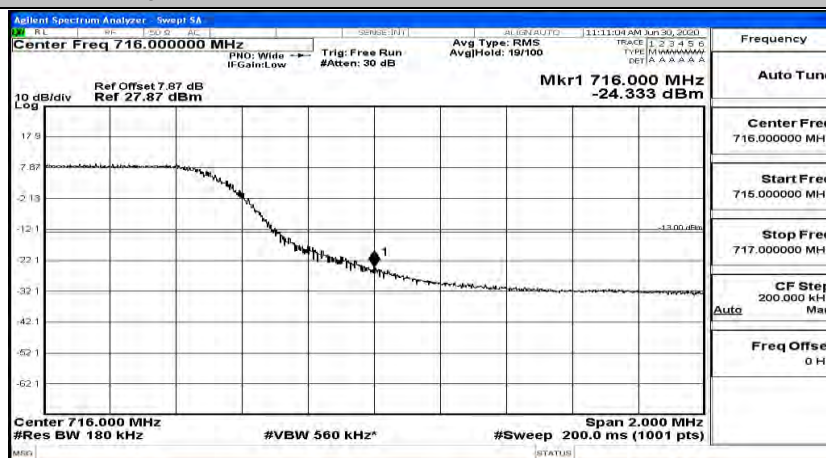
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
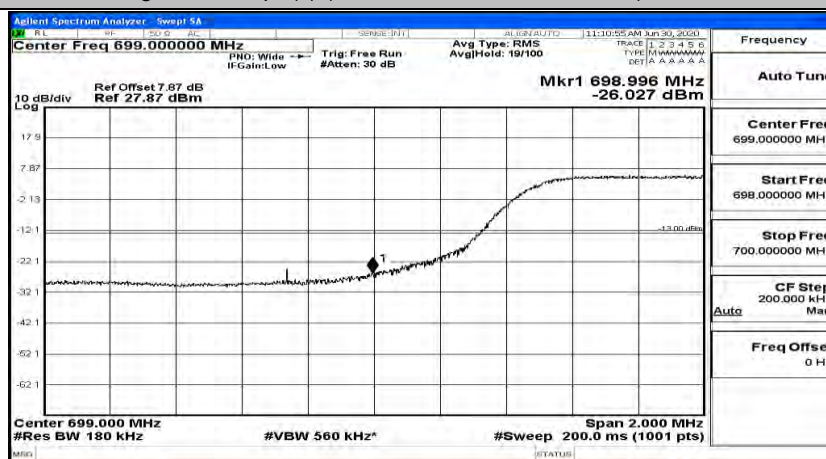
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
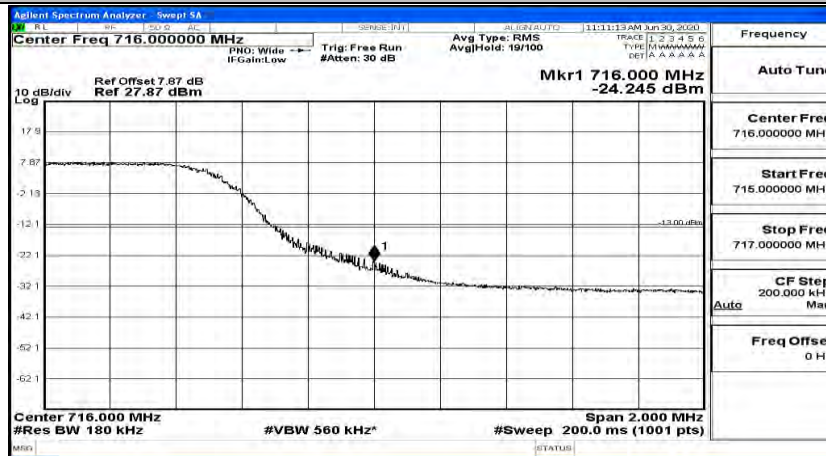
F.5 Conducted Spurious Emission
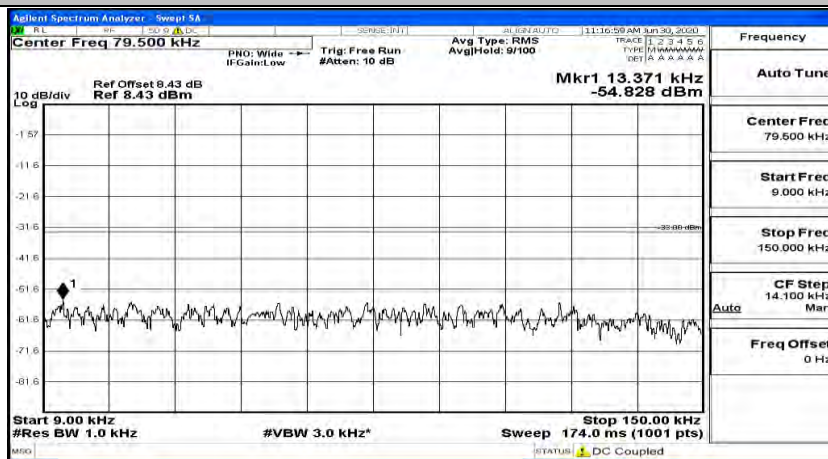
Channel Bandwidth: 1.4 MHz

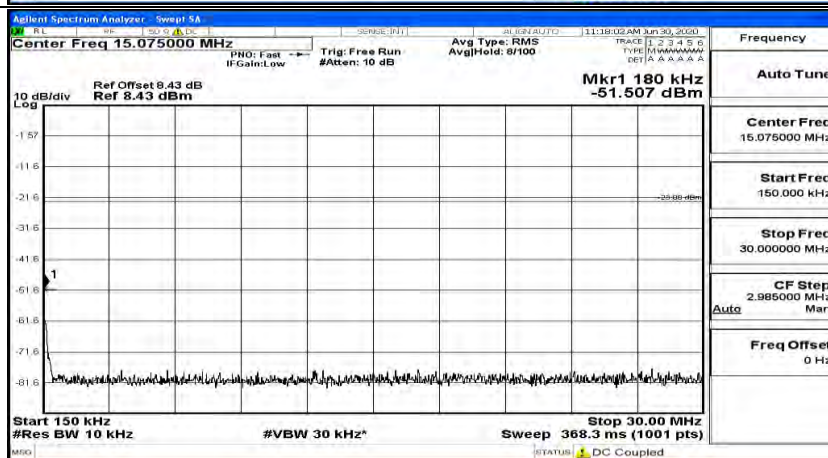| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0 |
| :---: |

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

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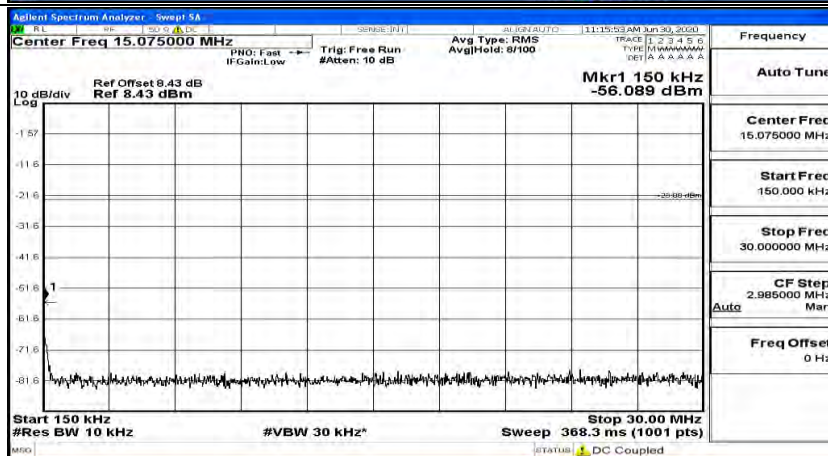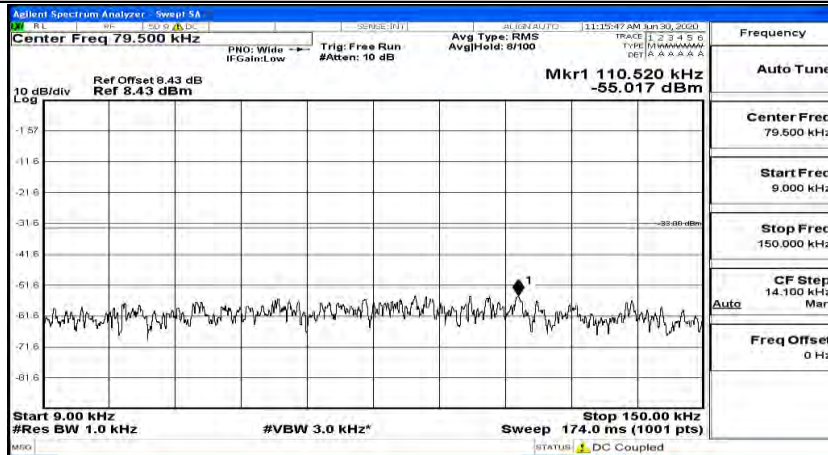
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5
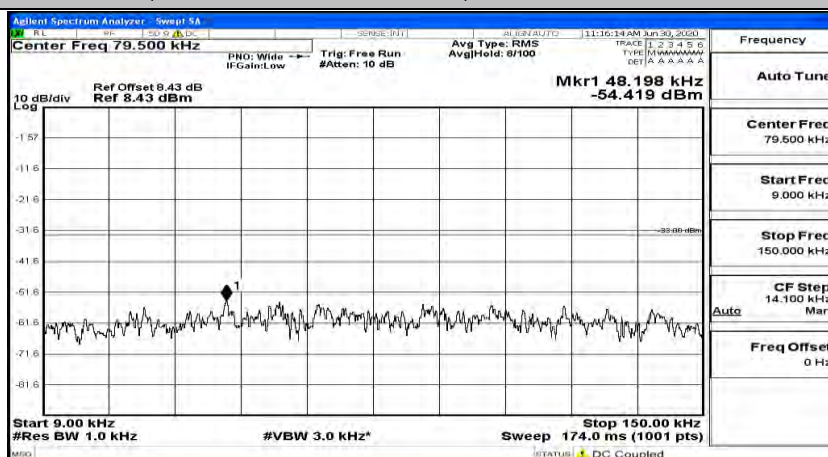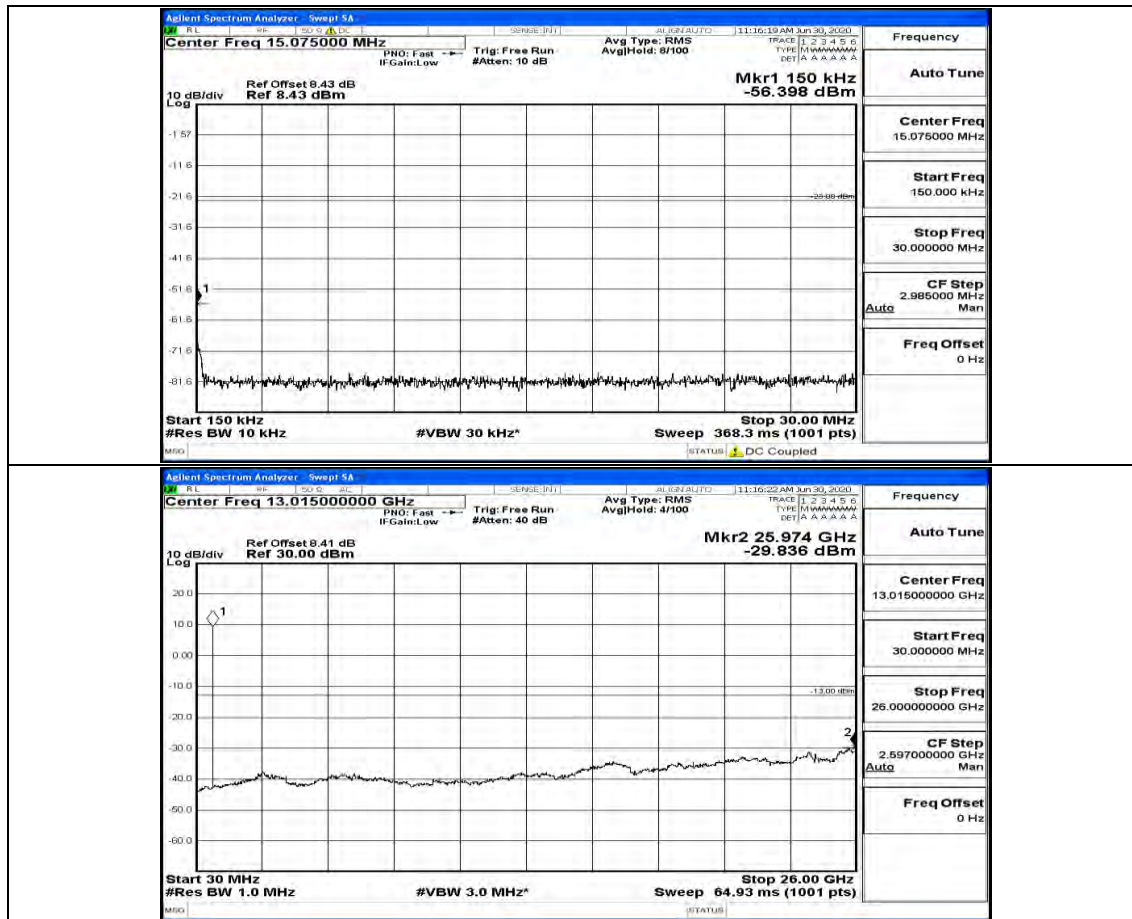
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0
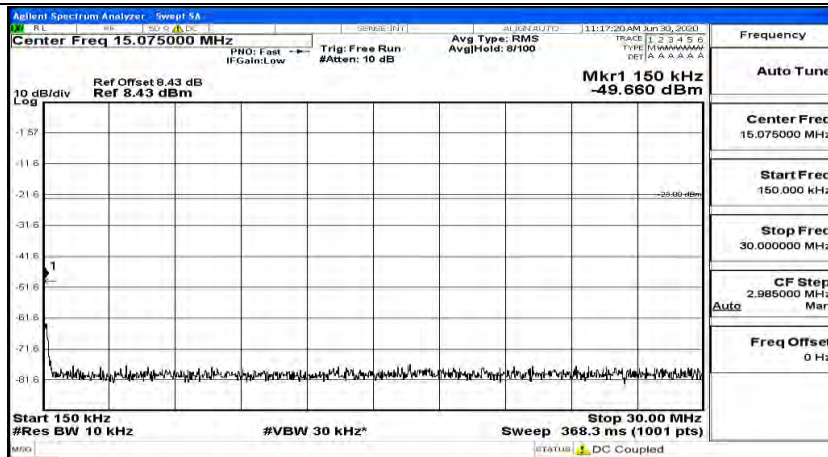
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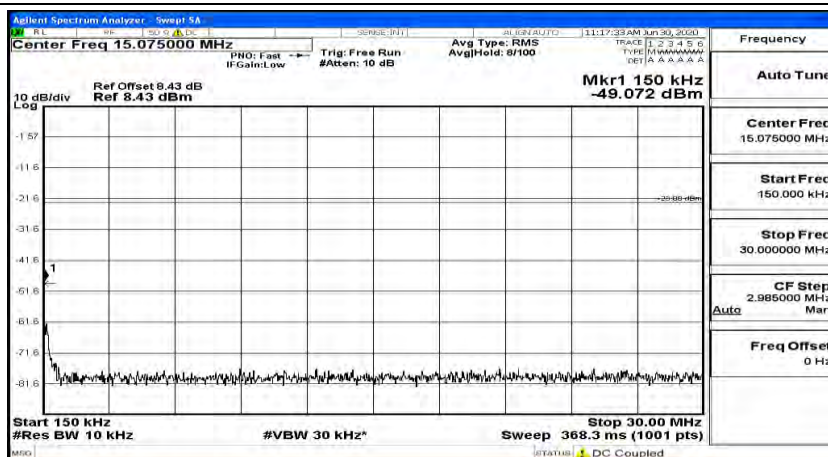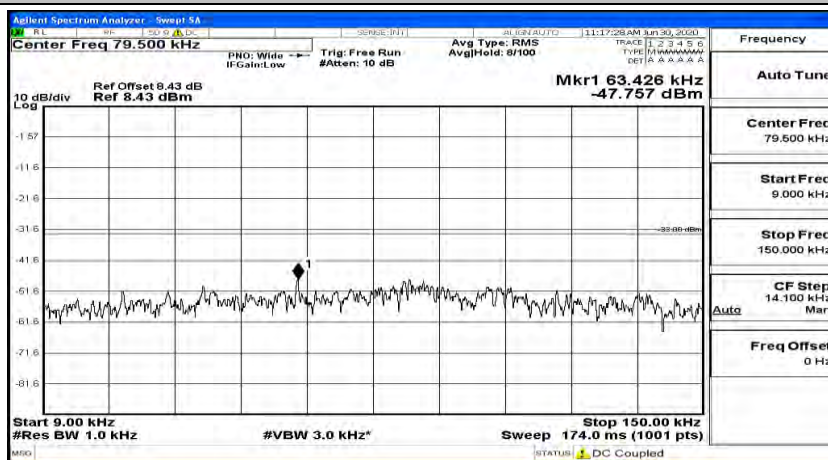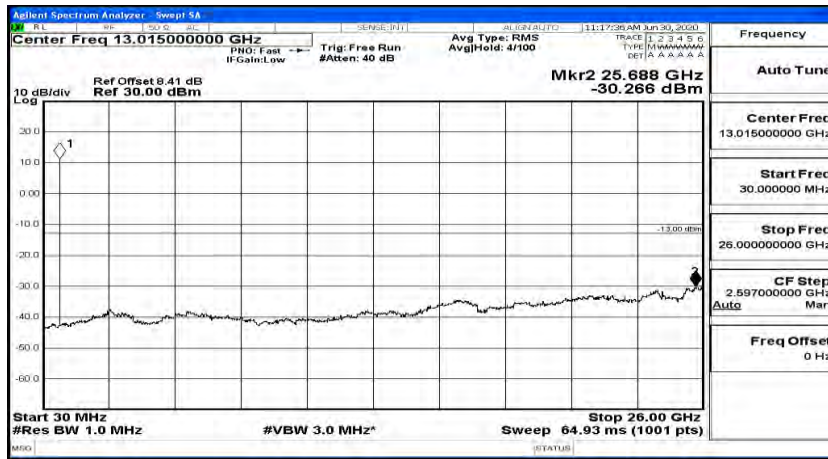
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5
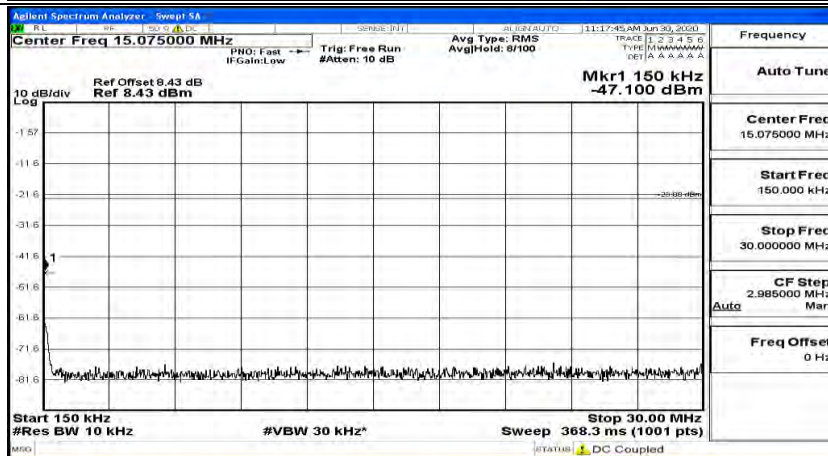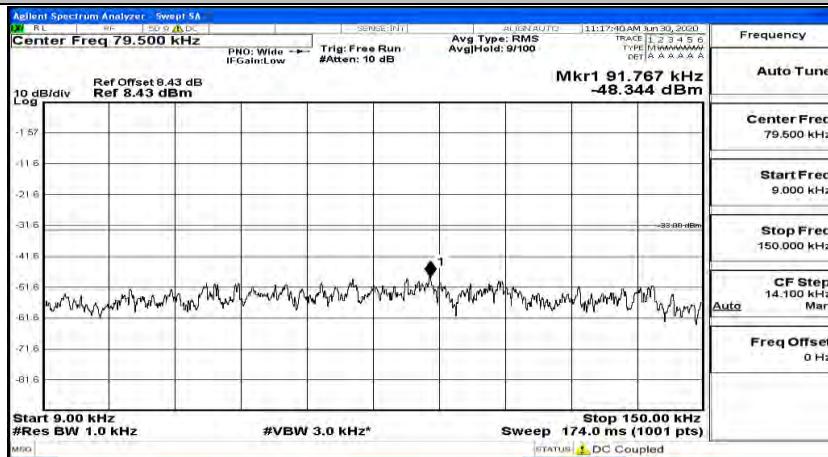
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0
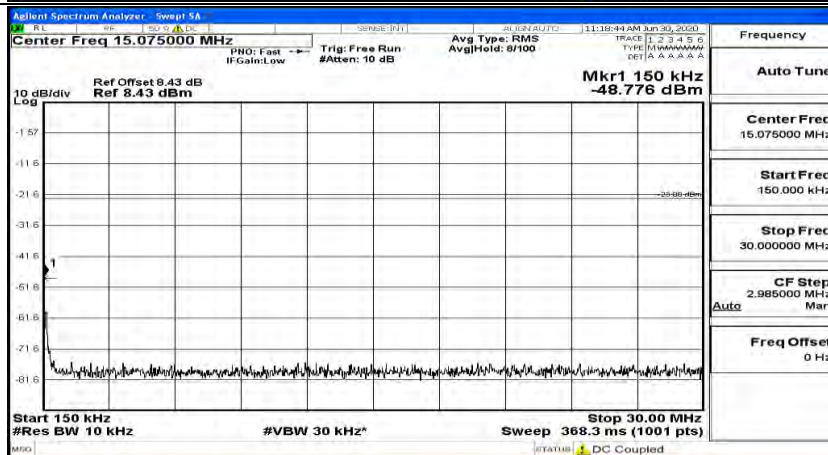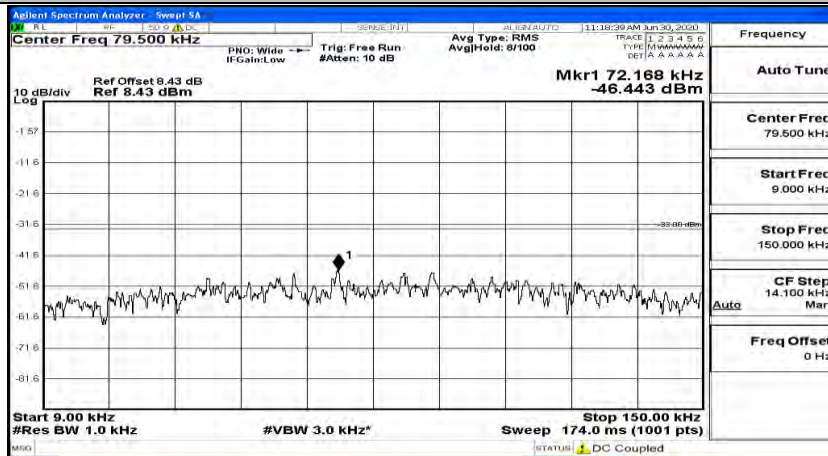
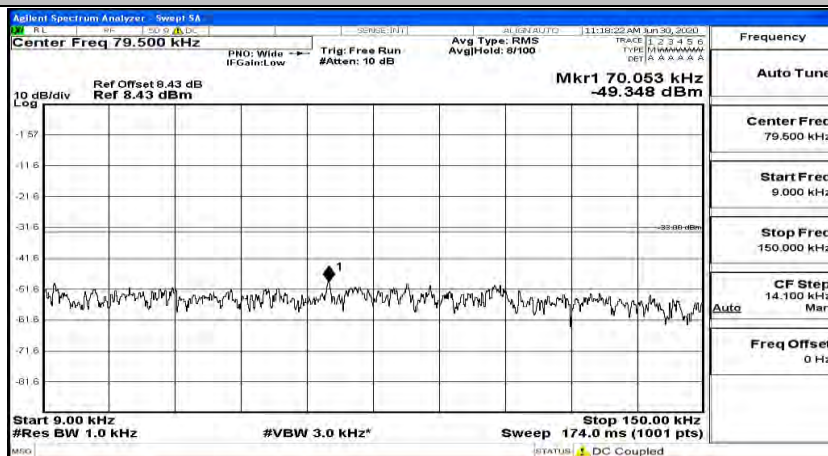(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3
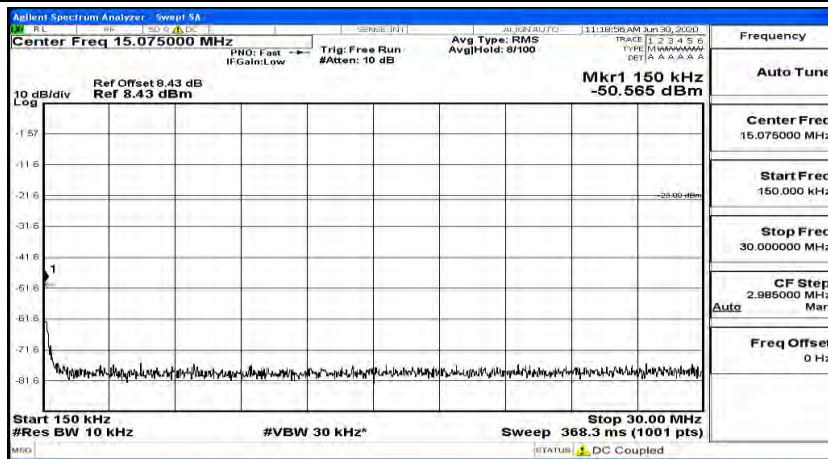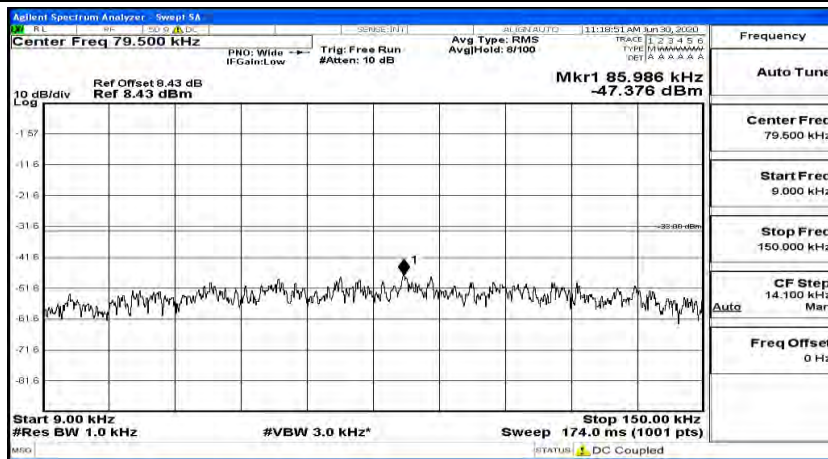
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5
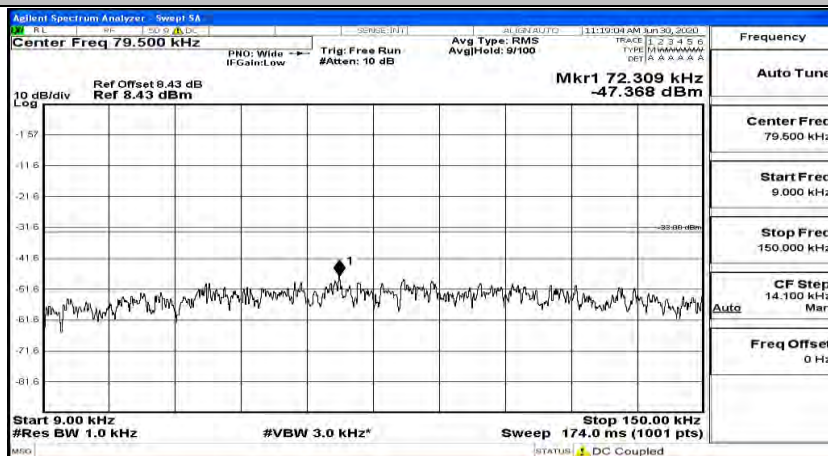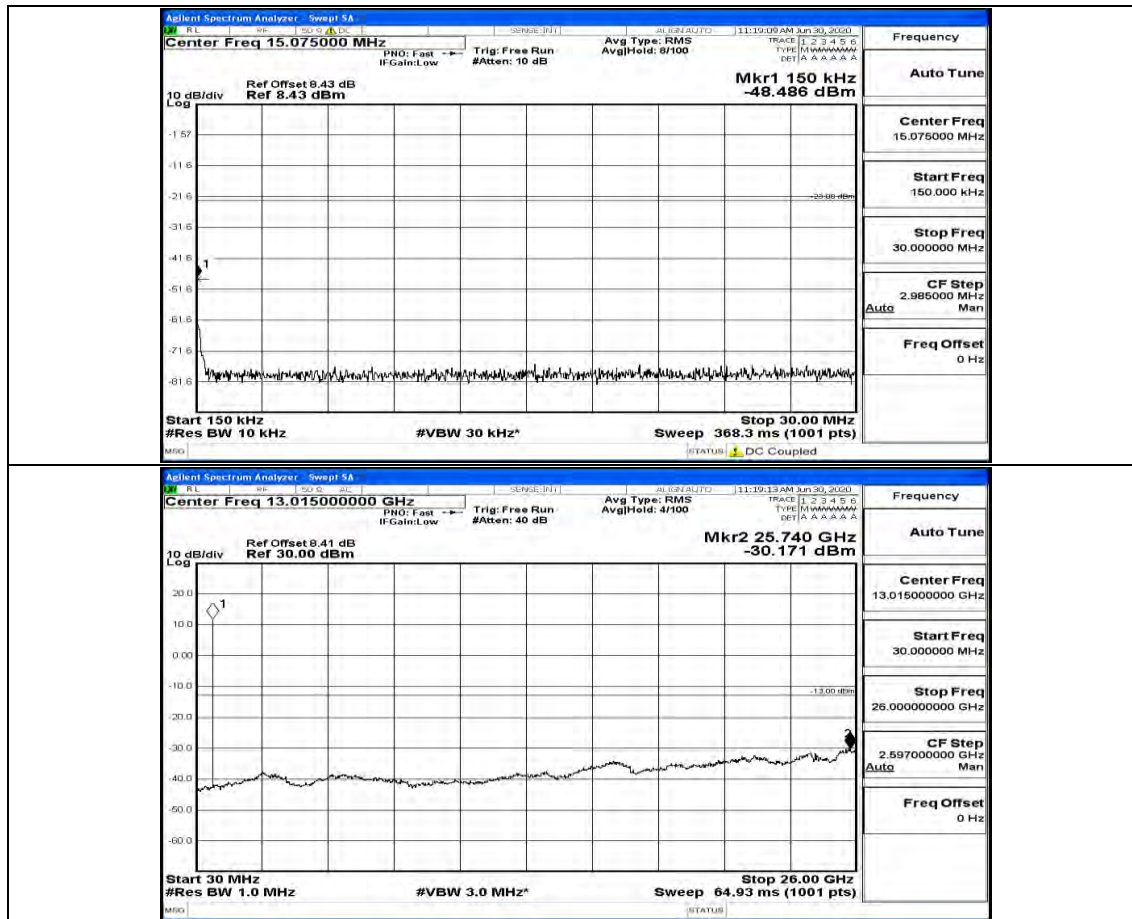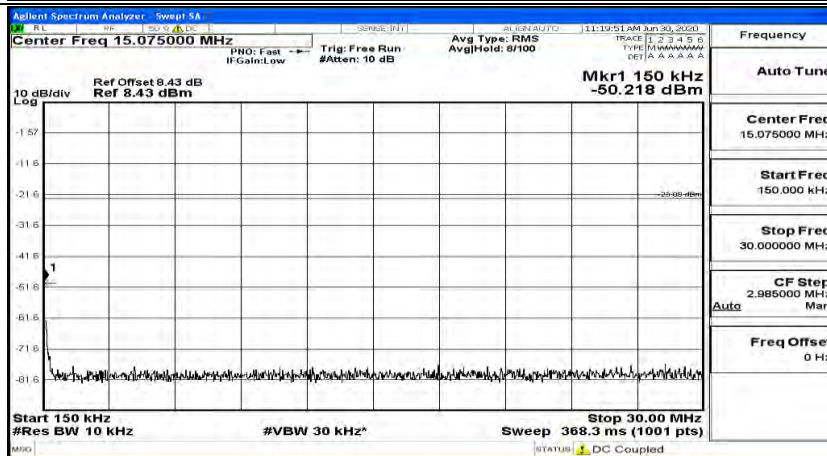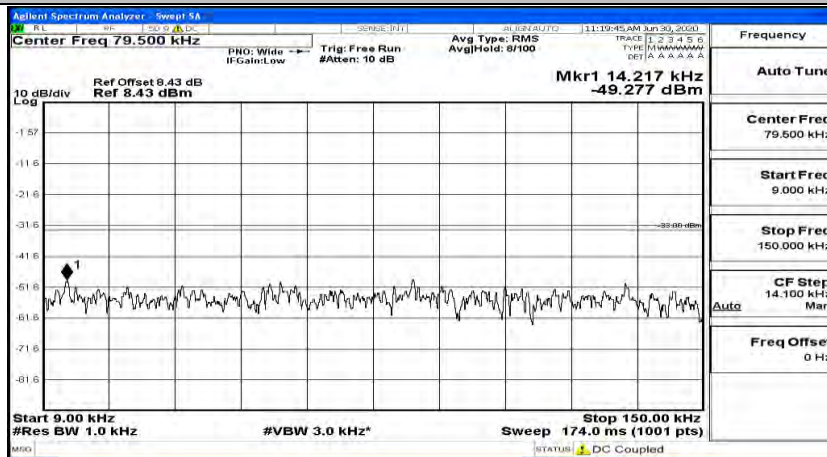
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0
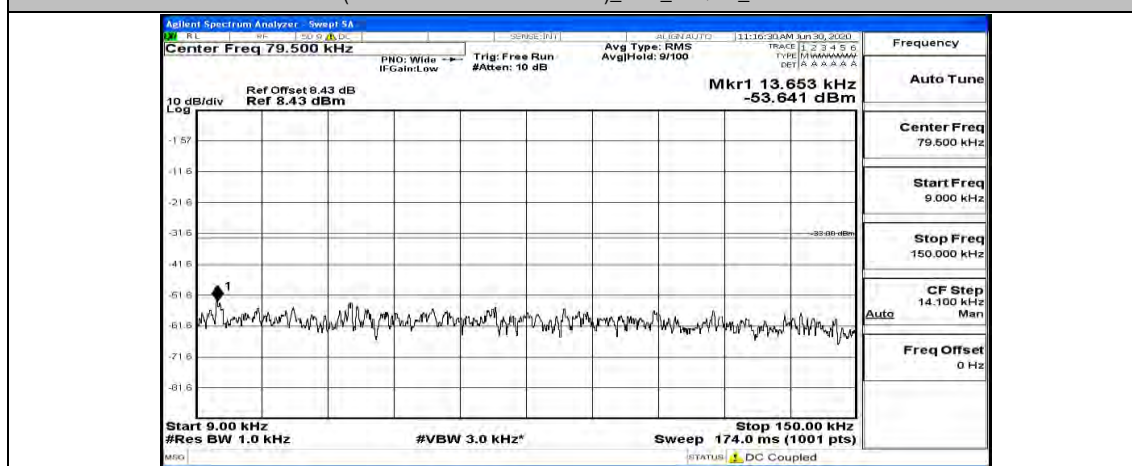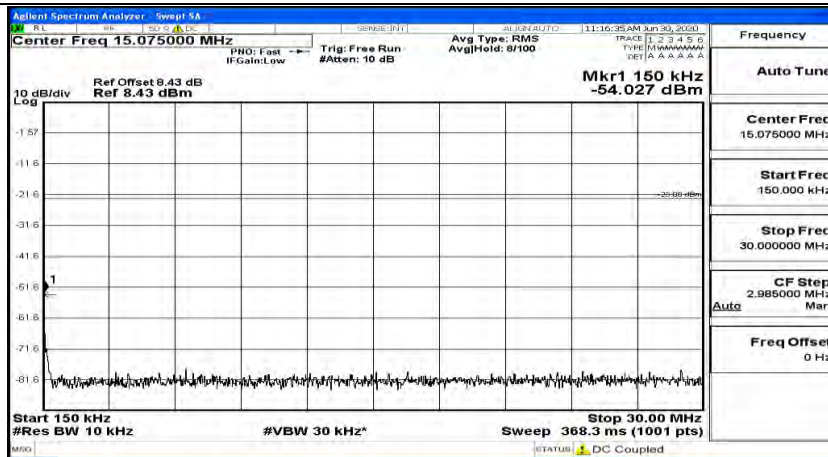
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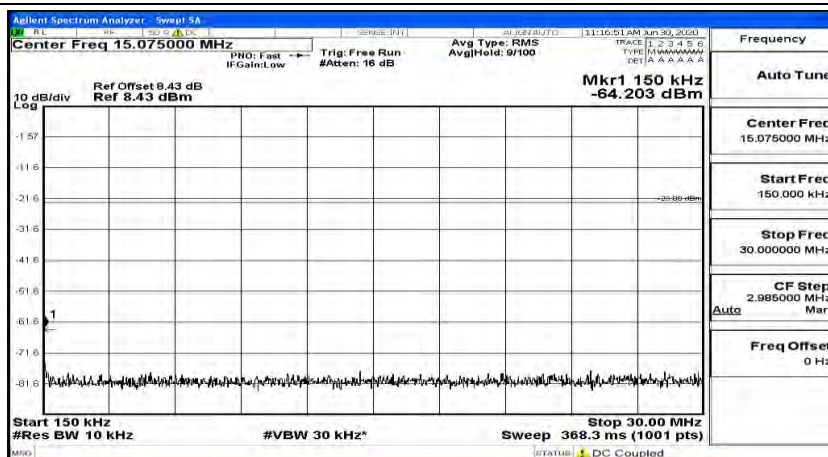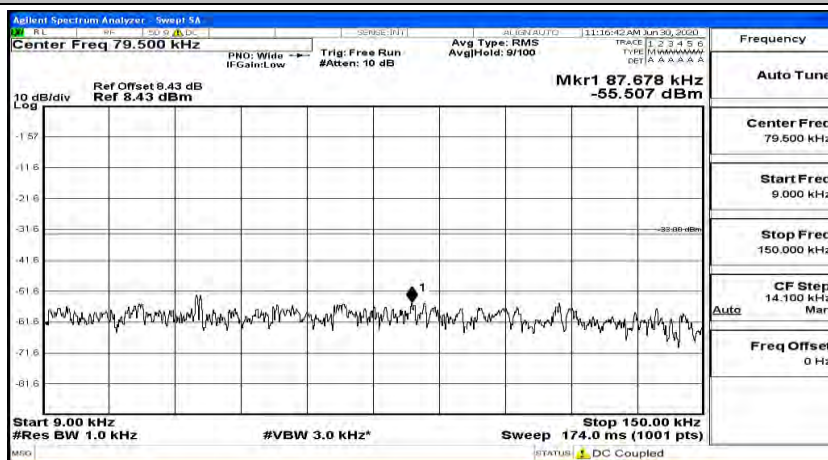
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5
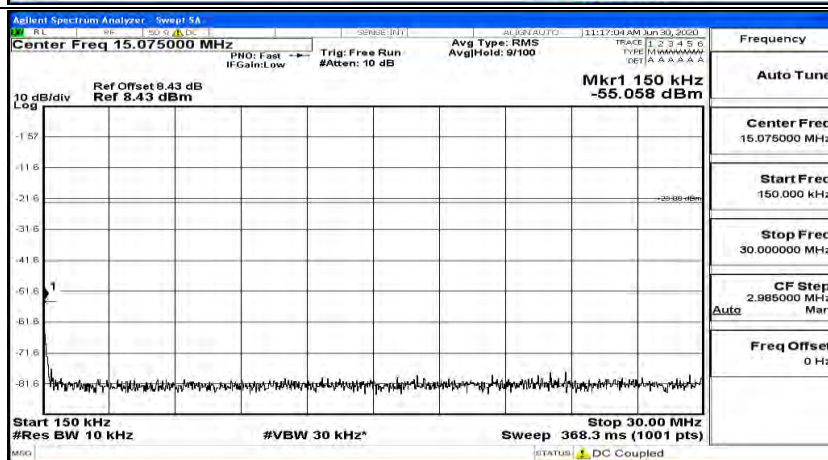
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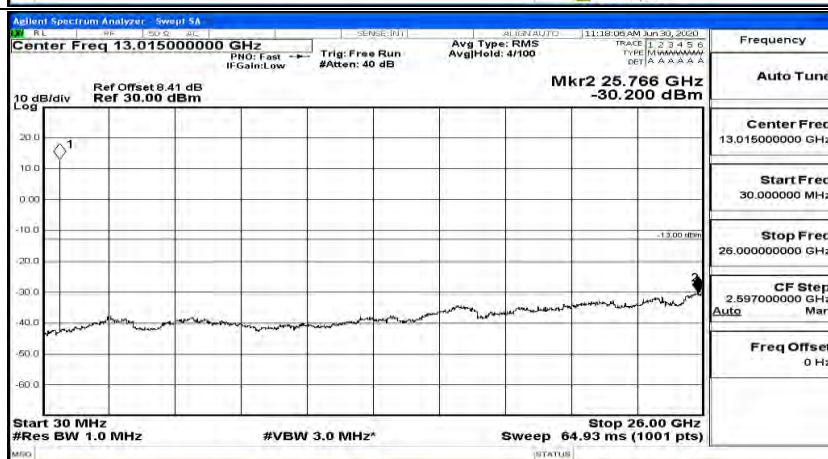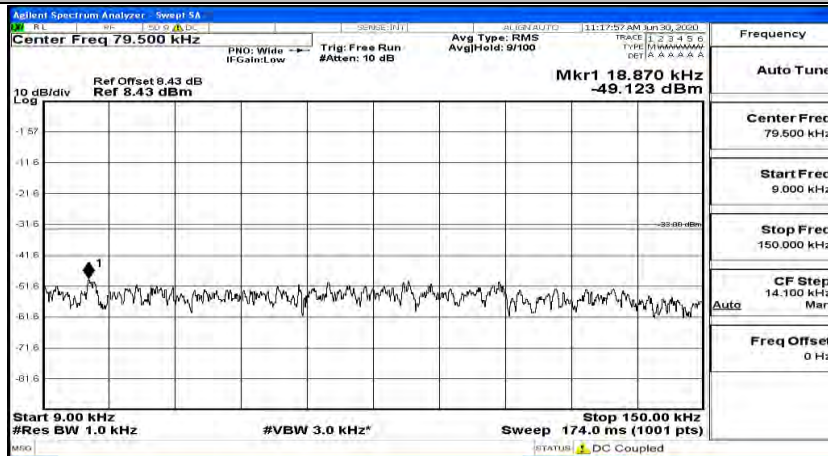
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0

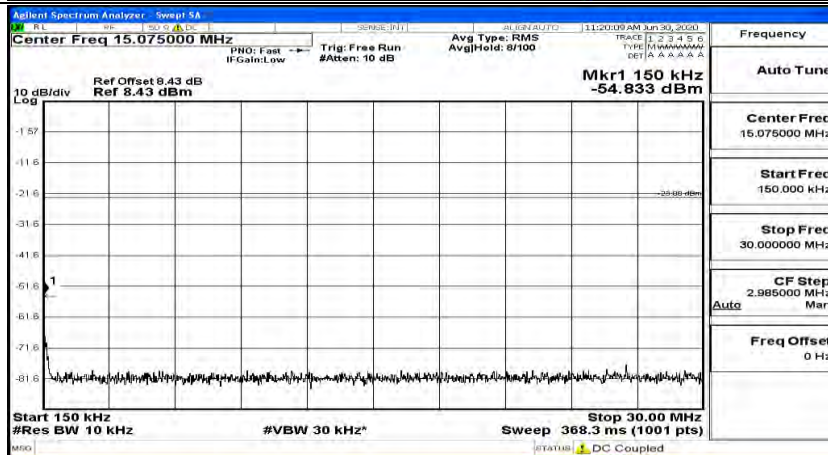(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3
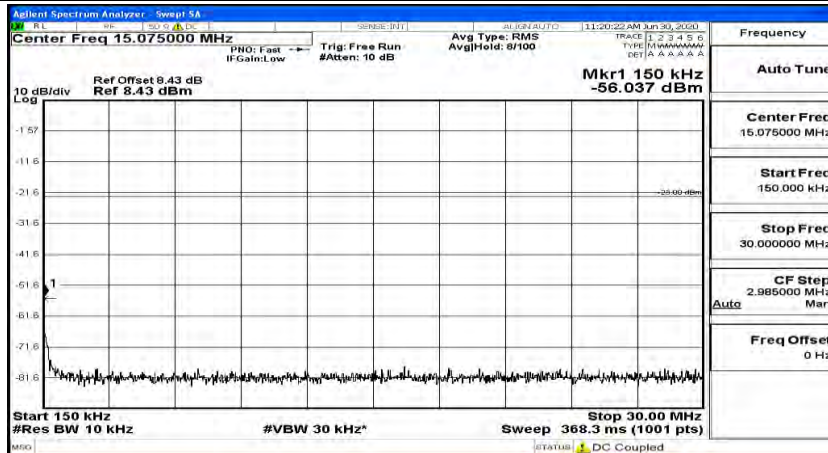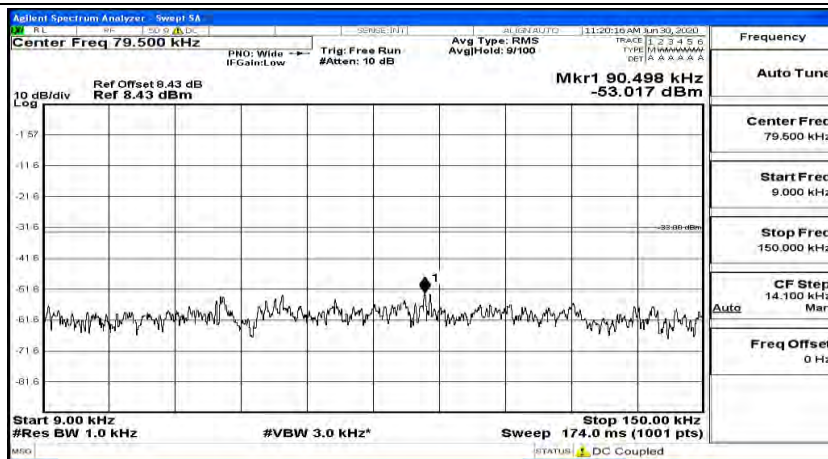
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5

Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7
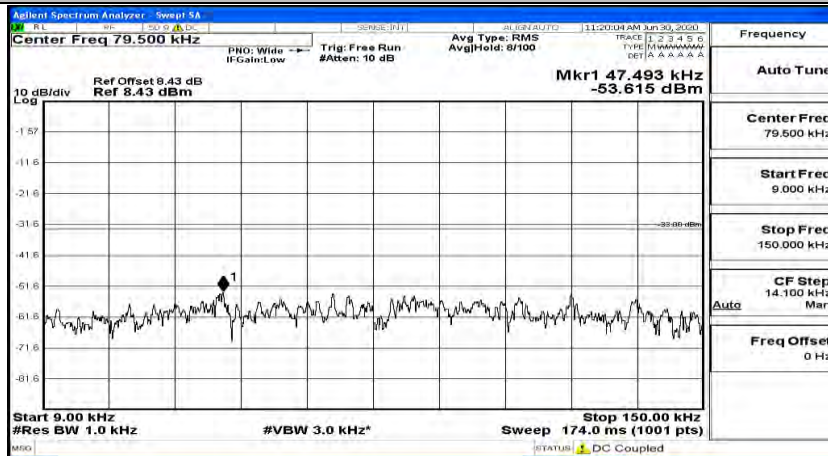
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14