

Appendix K: Test Data for E-UTRA Band 26(814MHz-824MHz)

Product Name: 4G PHONE

Test Model: BSCUS01

Environmental Conditions

Temperature:	24.9 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

K.1 Conducted Output Power

<SIM1>

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	23.50	22.55	PASS
		1	3	23.62	22.54	PASS
		1	5	23.53	22.33	PASS
		3	0	23.58	22.01	PASS
		3	2	23.50	21.88	PASS
		3	3	23.39	21.99	PASS
		6	0	23.44	21.50	PASS
	MCH	1	0	23.18	21.92	PASS
		1	3	23.19	22.03	PASS
		1	5	23.03	21.72	PASS
		3	0	23.31	21.31	PASS
		3	2	23.28	21.26	PASS
		3	3	23.19	22.19	PASS
		6	0	23.06	21.35	PASS
	HCH	1	0	22.92	21.40	PASS
		1	3	22.94	21.23	PASS
		1	5	22.82	21.48	PASS
		3	0	22.99	21.51	PASS
		3	2	22.91	21.45	PASS
		3	3	22.97	21.44	PASS
		6	0	23.06	21.28	PASS

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	23.30	22.67	PASS
		1	7	23.38	22.24	PASS
		1	14	23.69	22.23	PASS
		8	0	23.62	21.97	PASS
		8	4	23.50	21.71	PASS
		8	7	23.50	21.34	PASS
		15	0	23.54	21.78	PASS
	MCH	1	0	23.26	22.31	PASS
		1	7	23.13	22.09	PASS
		1	14	23.09	22.07	PASS
		8	0	23.35	22.02	PASS
		8	4	23.17	22.08	PASS
		8	7	23.13	21.26	PASS
		15	0	23.23	21.54	PASS
	HCH	1	0	23.25	21.95	PASS
		1	7	22.77	21.48	PASS
		1	14	22.92	21.76	PASS
		8	0	23.33	21.54	PASS
		8	4	23.08	21.28	PASS
		8	7	23.01	21.28	PASS
		15	0	23.07	21.48	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.36	22.90	PASS
		1	12	23.26	22.32	PASS
		1	24	23.13	22.13	PASS
		12	0	23.60	22.06	PASS
		12	6	23.38	21.79	PASS
		12	13	23.30	21.77	PASS
		25	0	23.55	21.87	PASS
	MCH	1	0	23.10	22.19	PASS
		1	12	23.04	21.95	PASS
		1	24	23.01	21.92	PASS
		12	0	23.34	21.67	PASS
		12	6	23.22	21.44	PASS
		12	13	23.17	21.43	PASS
		25	0	23.23	21.67	PASS
	HCH	1	0	23.03	21.31	PASS
		1	12	23.30	21.57	PASS
		1	24	22.95	21.45	PASS
		12	0	23.26	21.49	PASS
		12	6	23.14	21.45	PASS
		12	13	23.10	21.46	PASS
		25	0	23.31	21.62	PASS

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

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	MCH	1	0	23.55	22.73	PASS
		1	24	23.64	22.63	PASS
		1	49	23.04	21.66	PASS
		25	0	23.35	21.48	PASS
		25	12	23.24	21.53	PASS
		25	25	23.18	21.27	PASS
		50	0	23.33	21.52	PASS

<SIM2>

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	23.39	22.38	PASS
		1	3	23.51	22.38	PASS
		1	5	23.41	22.23	PASS
		3	0	23.46	21.88	PASS
		3	2	23.41	21.76	PASS
		3	3	23.29	21.89	PASS
		6	0	23.33	21.34	PASS
	MCH	1	0	23.06	21.76	PASS
		1	3	23.06	21.96	PASS
		1	5	22.90	21.63	PASS
		3	0	23.21	21.14	PASS
		3	2	23.18	21.19	PASS
		3	3	23.07	22.10	PASS
		6	0	22.96	21.22	PASS
	HCH	1	0	22.78	21.29	PASS
		1	3	22.84	21.08	PASS
		1	5	22.72	21.39	PASS
		3	0	22.90	21.38	PASS
		3	2	22.83	21.32	PASS
		3	3	22.90	21.37	PASS
		6	0	22.91	21.15	PASS

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	22.51	PASS
		1	7	23.29	22.17	PASS
		1	14	23.61	22.15	PASS
		8	0	23.47	21.89	PASS
		8	4	23.41	21.61	PASS
		8	7	23.36	21.22	PASS
		15	0	23.46	21.62	PASS
	MCH	1	0	23.17	22.17	PASS
		1	7	23.02	21.97	PASS
		1	14	22.96	21.93	PASS
		8	0	23.19	21.91	PASS
		8	4	23.09	21.94	PASS
		8	7	22.97	21.10	PASS
		15	0	23.07	21.43	PASS
	HCH	1	0	23.16	21.87	PASS
		1	7	22.68	21.33	PASS
		1	14	22.77	21.60	PASS
		8	0	23.20	21.39	PASS
		8	4	22.91	21.16	PASS
		8	7	22.91	21.19	PASS
		15	0	23.00	21.33	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	23.22	22.81	PASS
		1	12	23.17	22.17	PASS
		1	24	22.98	22.05	PASS
		12	0	23.48	21.93	PASS
		12	6	23.27	21.64	PASS
		12	13	23.19	21.70	PASS
		25	0	23.41	21.78	PASS
	MCH	1	0	22.97	22.02	PASS
		1	12	22.89	21.80	PASS
		1	24	22.91	21.77	PASS
		12	0	23.22	21.54	PASS
		12	6	23.12	21.37	PASS
		12	13	23.03	21.34	PASS
		25	0	23.14	21.59	PASS
	HCH	1	0	22.89	21.20	PASS
		1	12	23.23	21.42	PASS
		1	24	22.81	21.38	PASS
		12	0	23.10	21.38	PASS
		12	6	22.98	21.33	PASS
		12	13	22.94	21.31	PASS
		25	0	23.19	21.48	PASS

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	MCH	1	0	23.40	22.62	PASS
		1	24	23.49	22.49	PASS
		1	49	22.87	21.55	PASS
		25	0	23.25	21.37	PASS
		25	12	23.14	21.45	PASS
		25	25	23.07	21.12	PASS
		50	0	23.16	21.39	PASS

K.2 Peak-to-Average Ratio

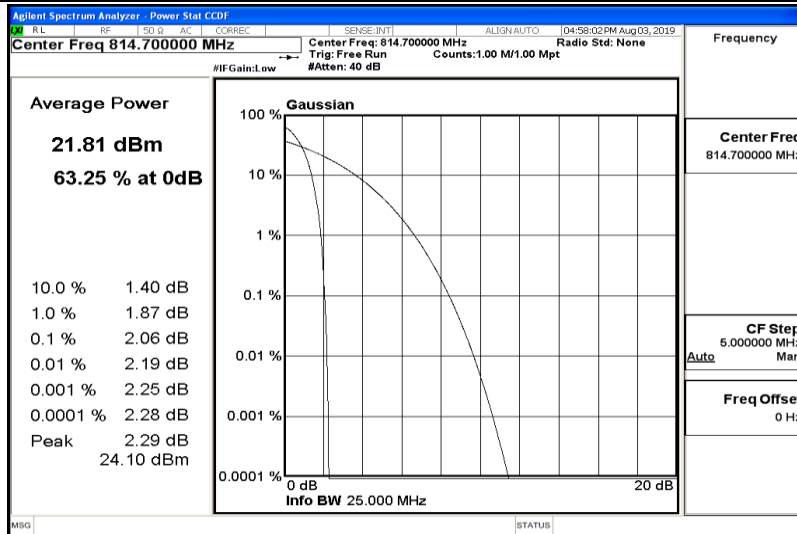
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	2.06	<13	PASS
	MCH	4.69	<13	PASS
	HCH	4.05	<13	PASS
16QAM	LCH	2.78	<13	PASS
	MCH	9.77	<13	PASS
	HCH	4.87	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	3.00	<13	PASS
	MCH	4.58	<13	PASS
	HCH	4.12	<13	PASS
16QAM	LCH	3.76	<13	PASS
	MCH	5.40	<13	PASS
	HCH	4.97	<13	PASS

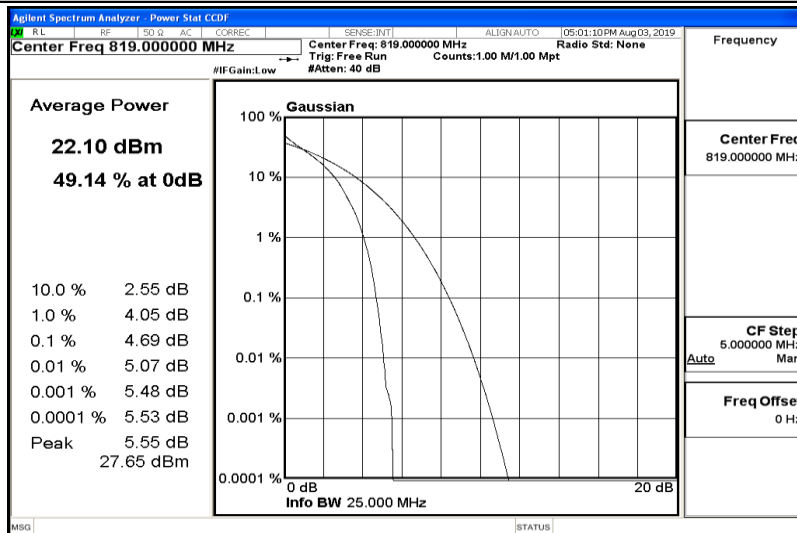
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	3.61	<13	PASS
	MCH	4.51	<13	PASS
	HCH	4.42	<13	PASS
16QAM	LCH	4.62	<13	PASS
	MCH	5.36	<13	PASS
	HCH	5.19	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	MCH	4.29	<13	PASS
16QAM	MCH	5.28	<13	PASS

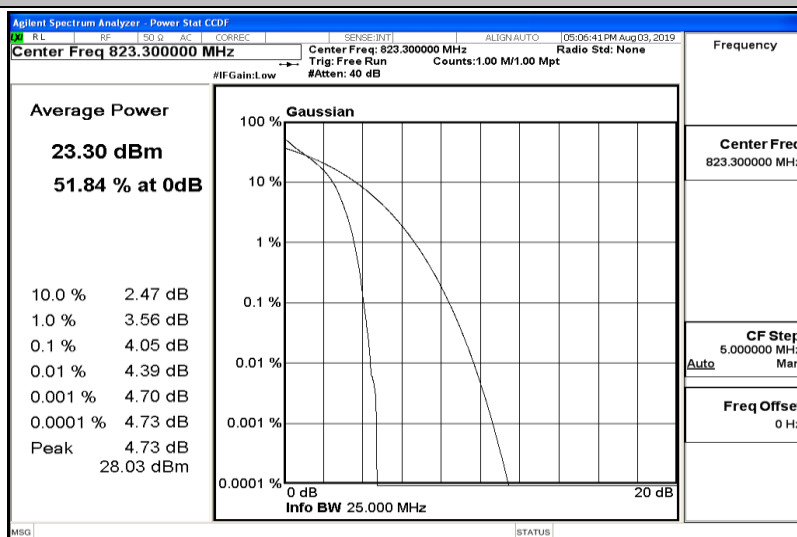
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



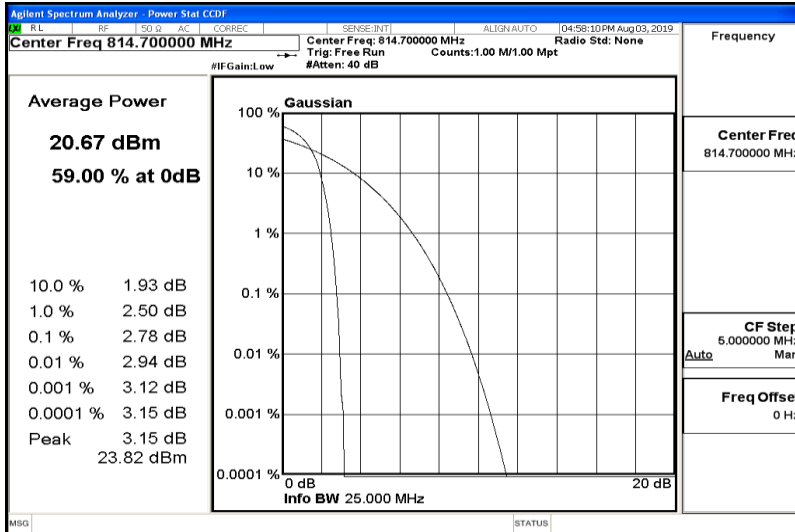
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



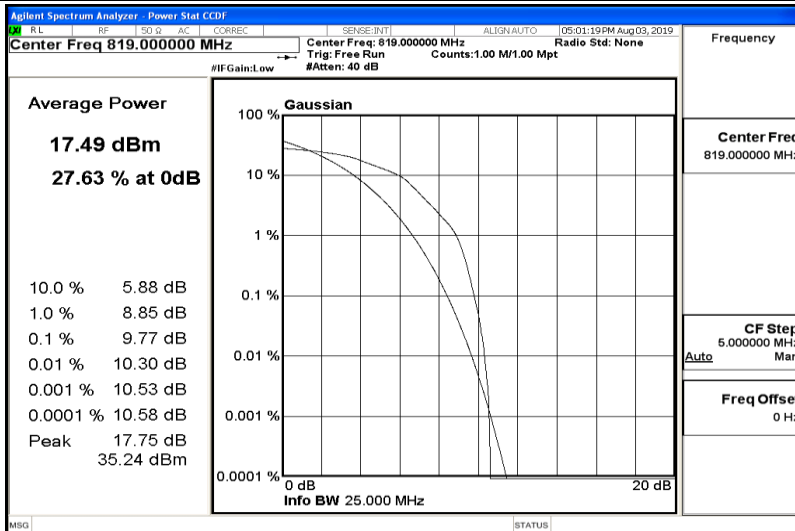
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



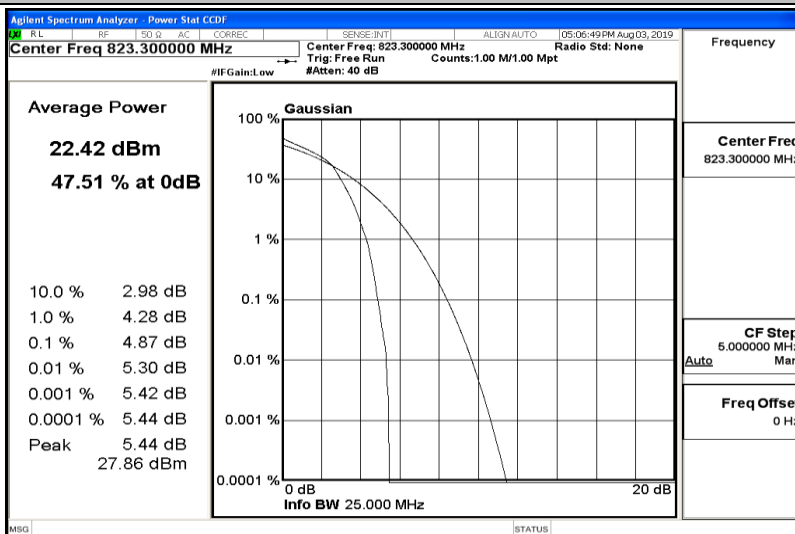
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



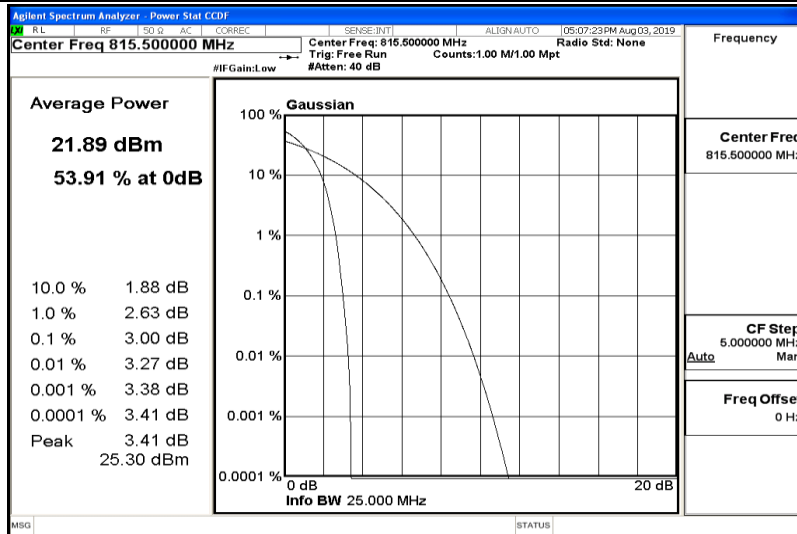
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



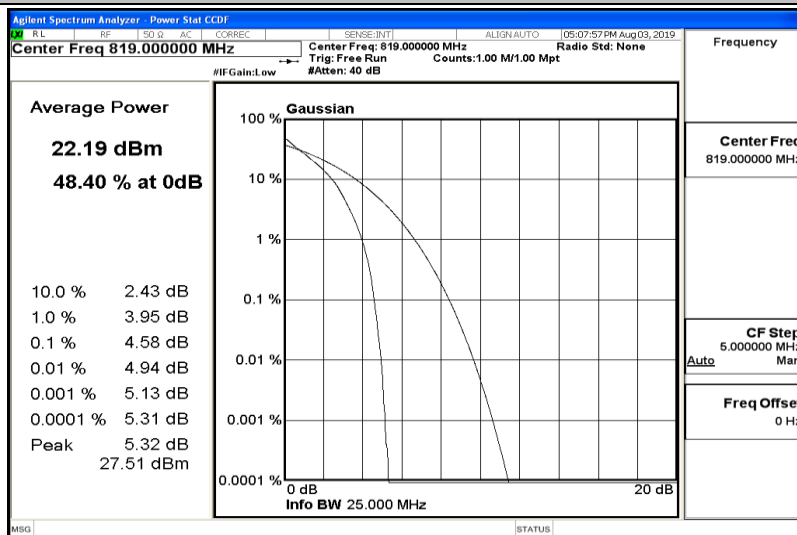
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



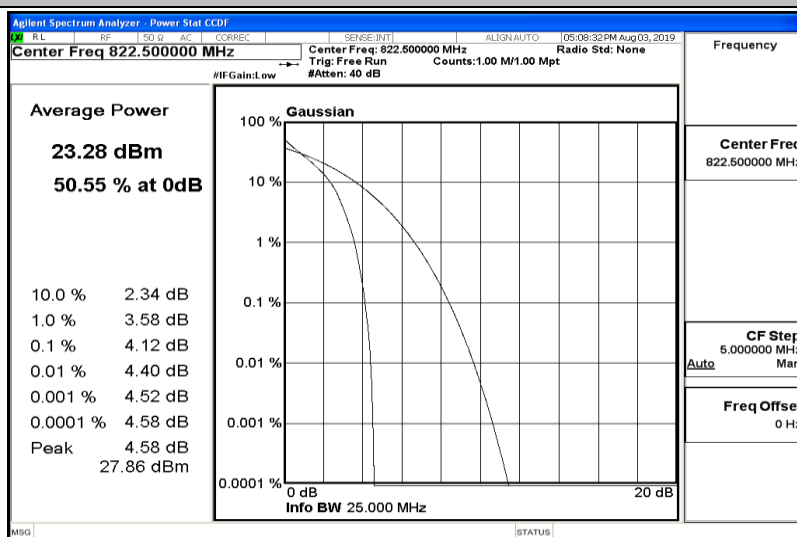
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



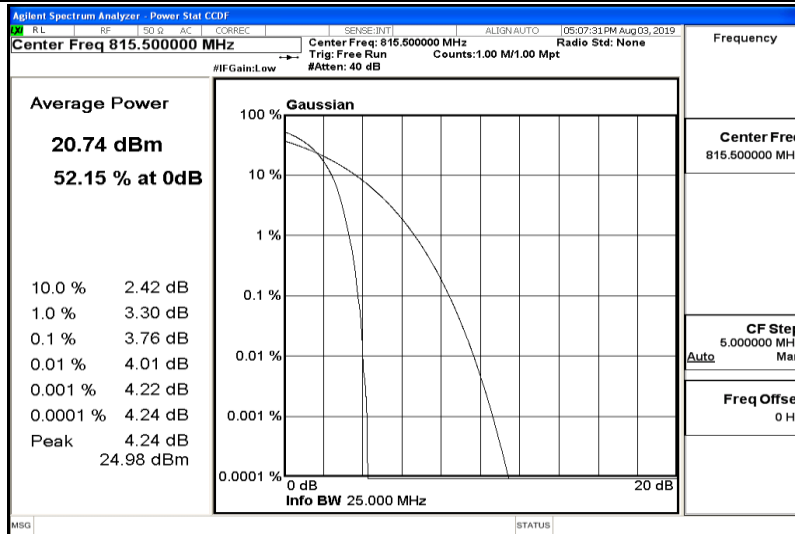
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



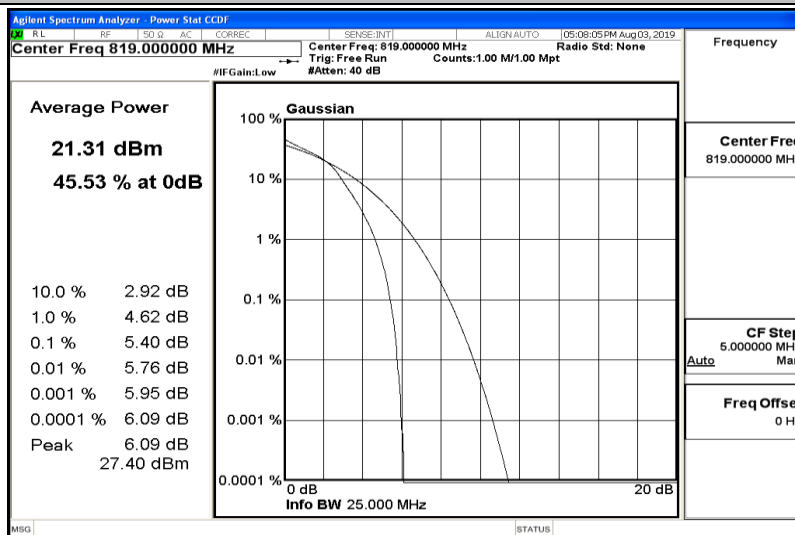
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



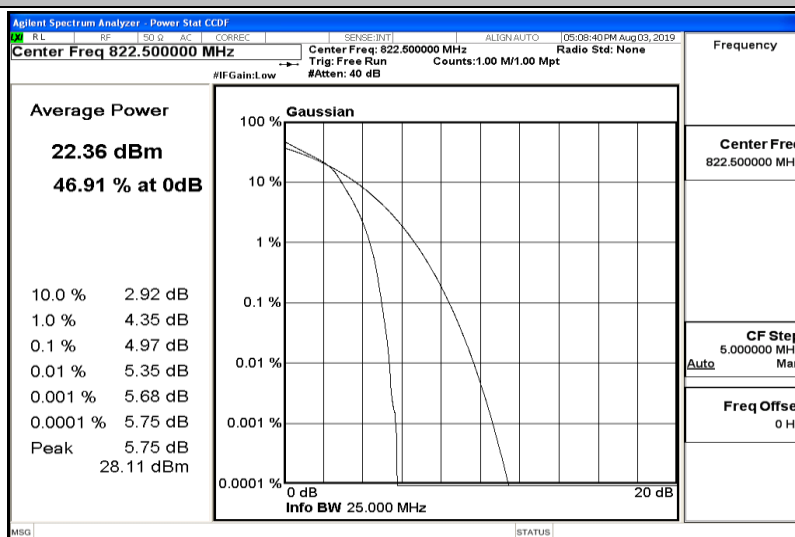
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



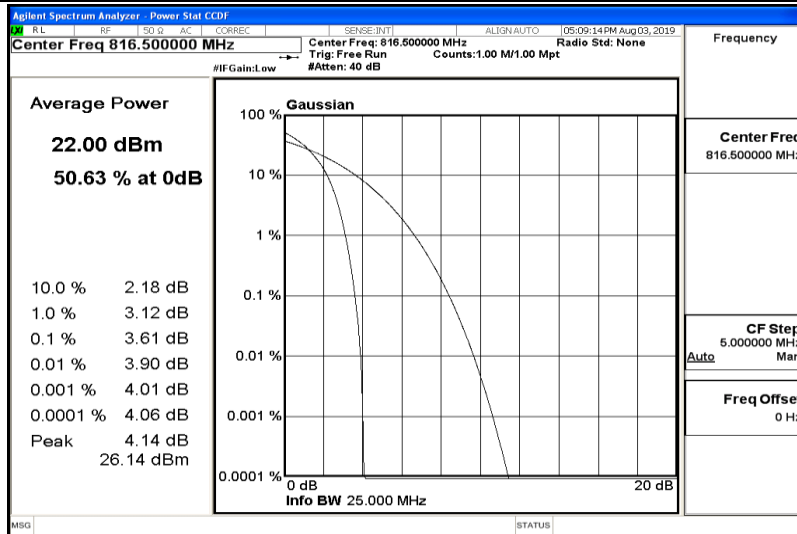
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



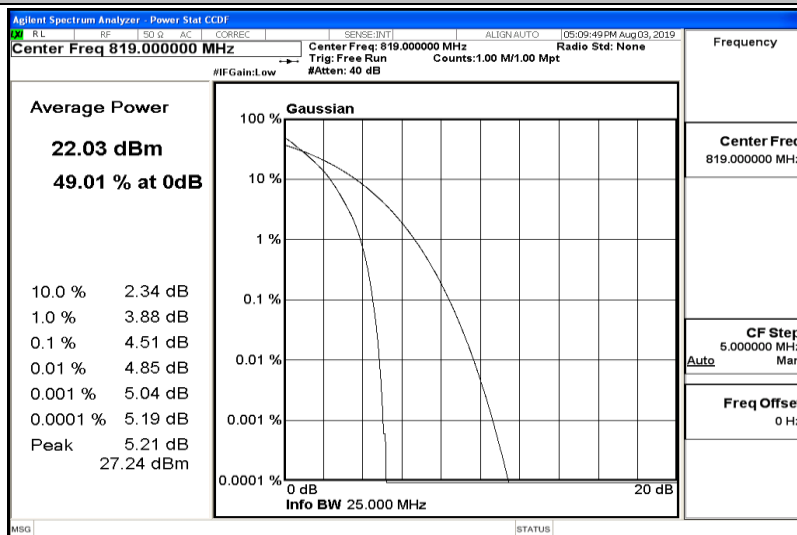
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



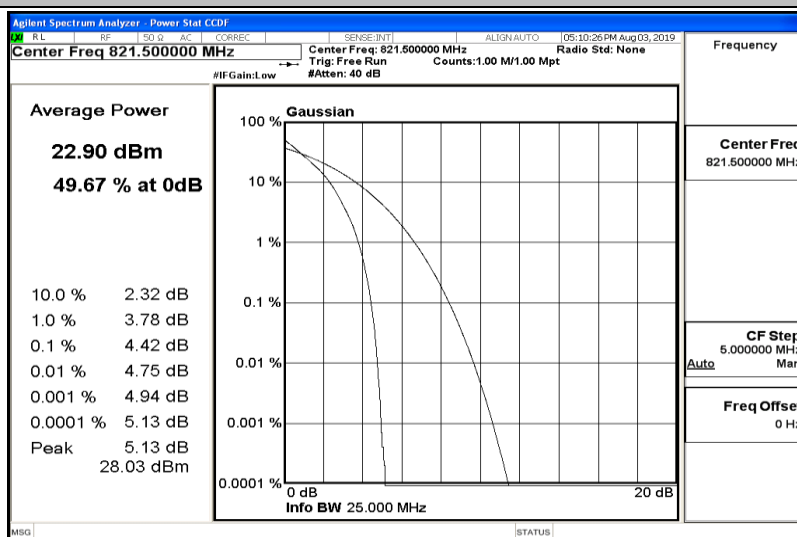
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



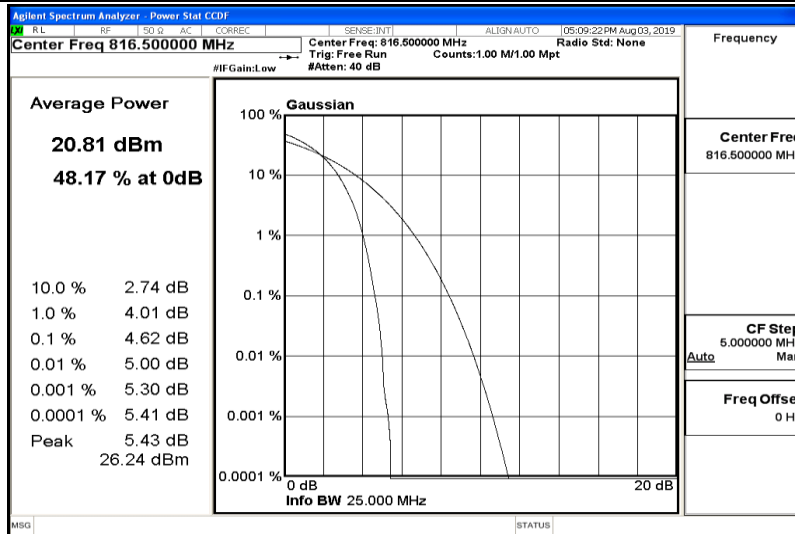
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



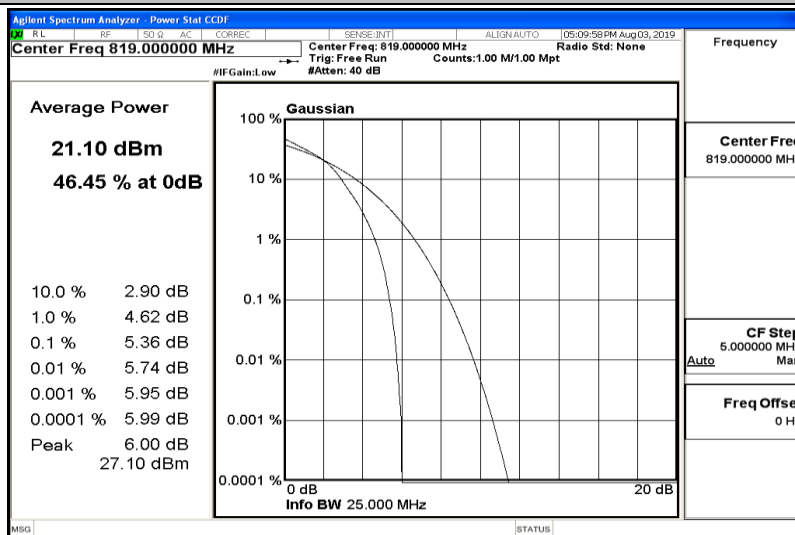
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



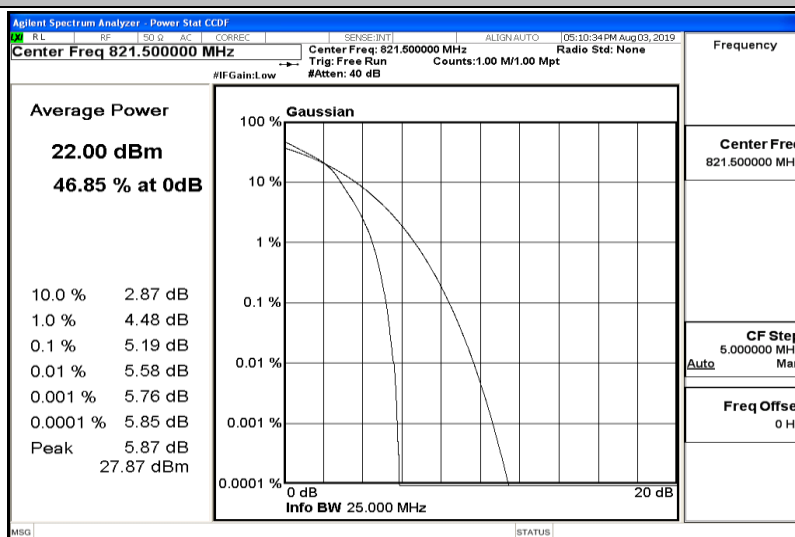
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



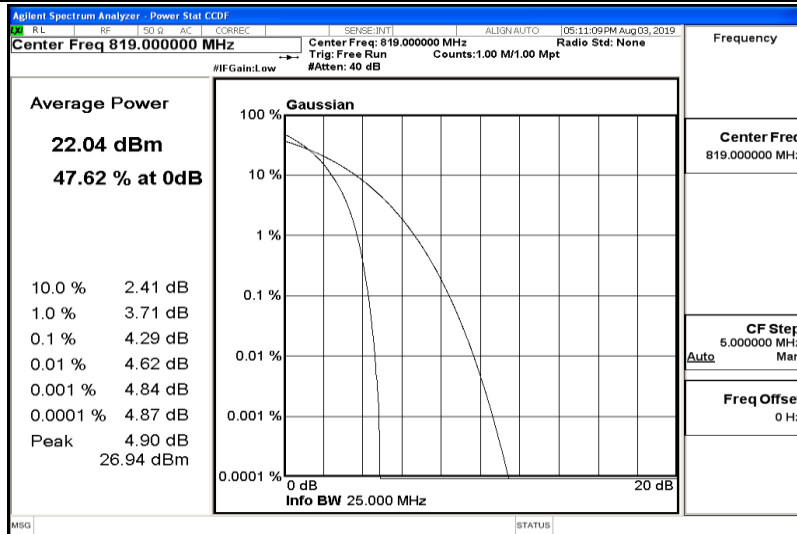
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



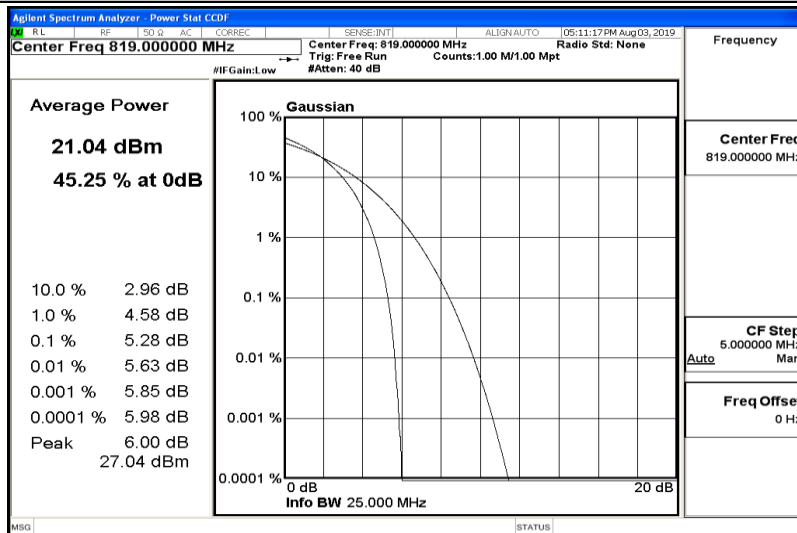
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



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



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



K.3 26dB Bandwidth and Occupied Bandwidth

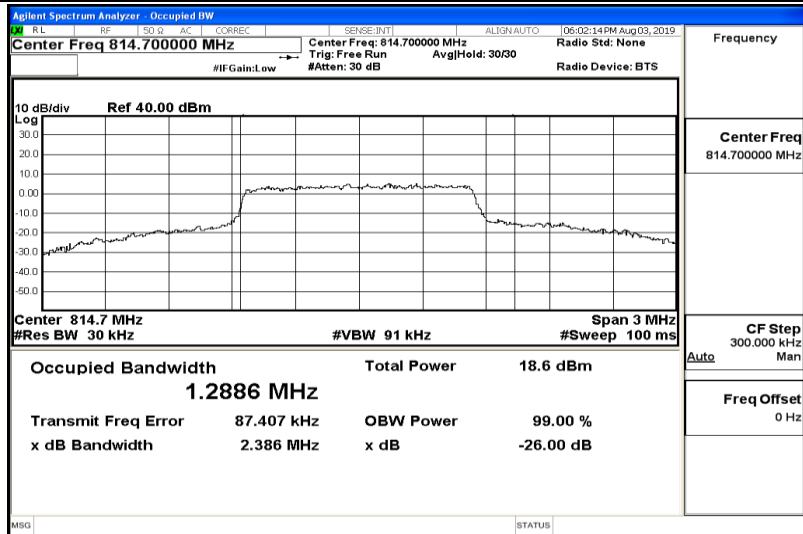
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.2886	2.386	PASS
	MCH	1.0972	1.246	PASS
	HCH	1.0928	1.263	PASS
16QAM	LCH	1.2183	2.268	PASS
	MCH	1.0905	1.240	PASS
	HCH	1.0929	1.240	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.7312	4.164	PASS
	MCH	2.6987	2.965	PASS
	HCH	2.7019	2.972	PASS
16QAM	LCH	2.7097	4.129	PASS
	MCH	2.6903	2.970	PASS
	HCH	2.6949	2.967	PASS

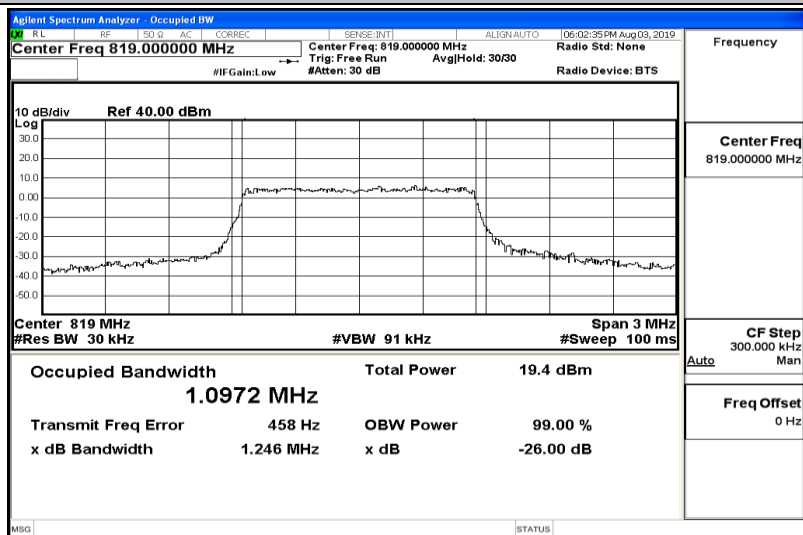
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.5109	4.871	PASS
	MCH	4.5031	4.852	PASS
	HCH	4.5131	4.930	PASS
16QAM	LCH	4.5025	4.883	PASS
	MCH	4.5027	4.880	PASS
	HCH	4.4991	4.894	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	MCH	8.8788	9.500	PASS
16QAM	MCH	8.8612	9.523	PASS

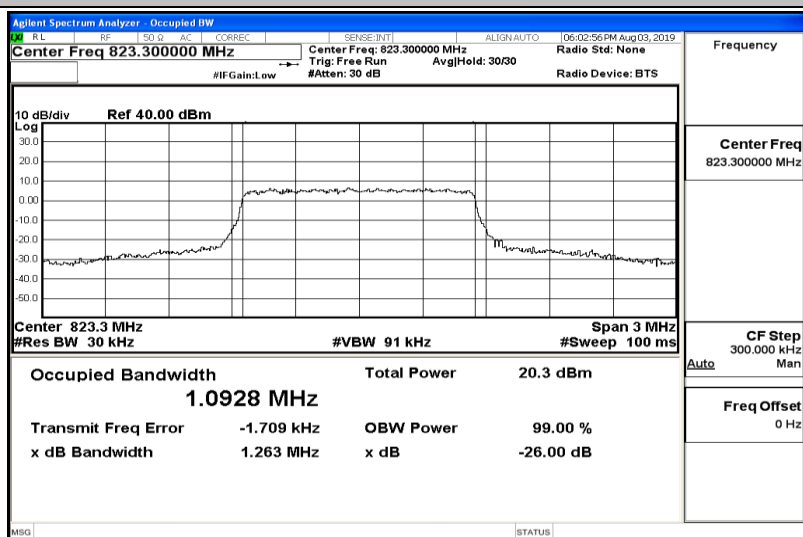
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



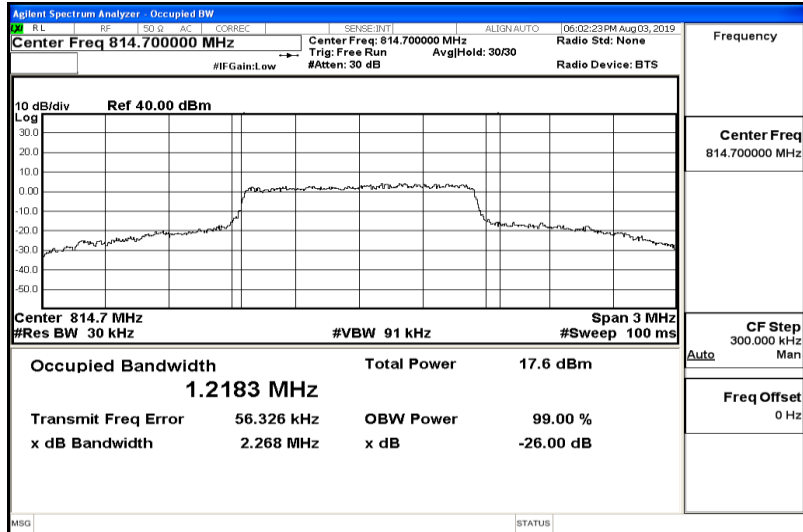
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



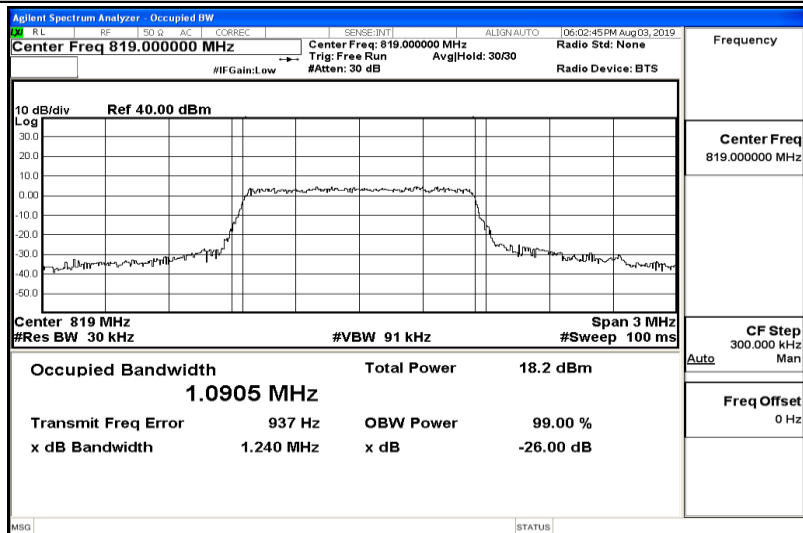
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



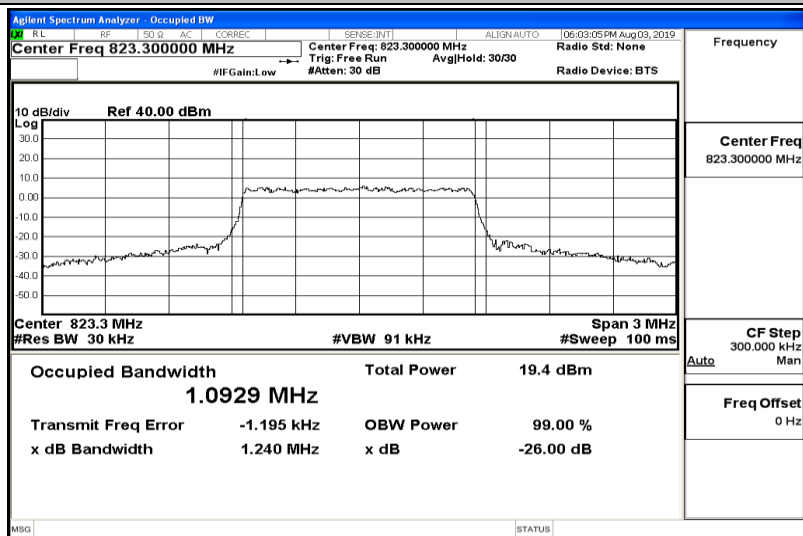
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



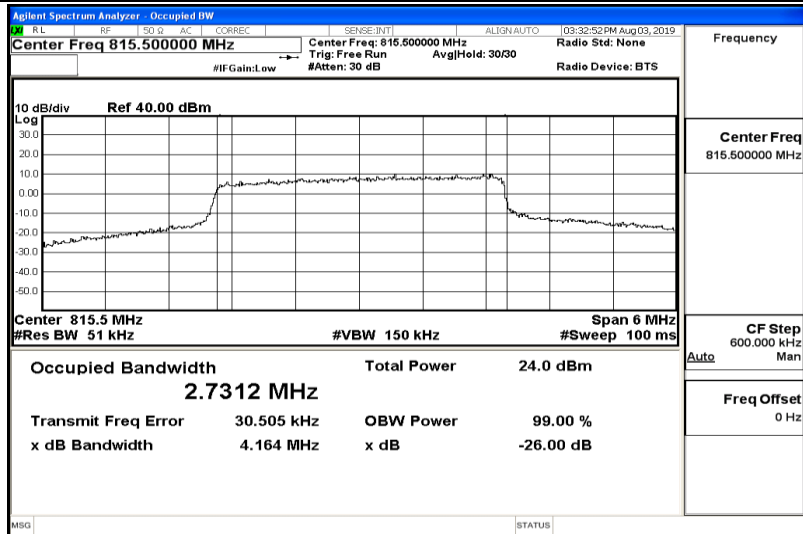
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



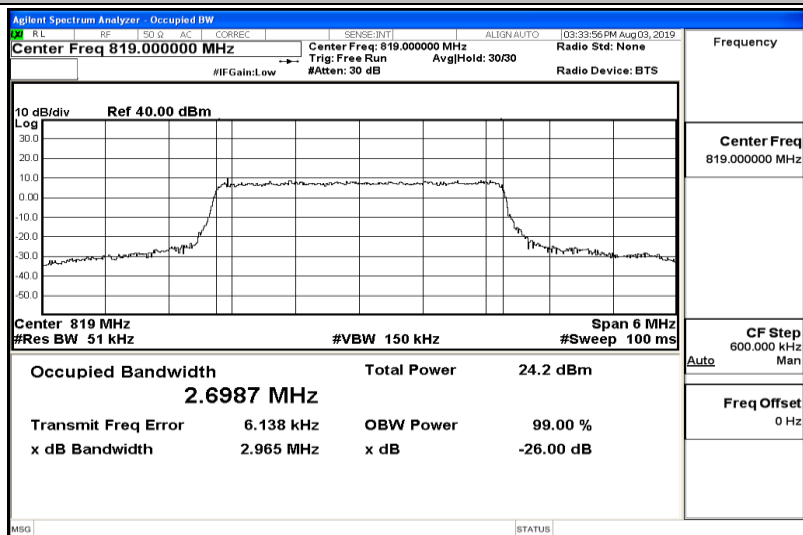
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



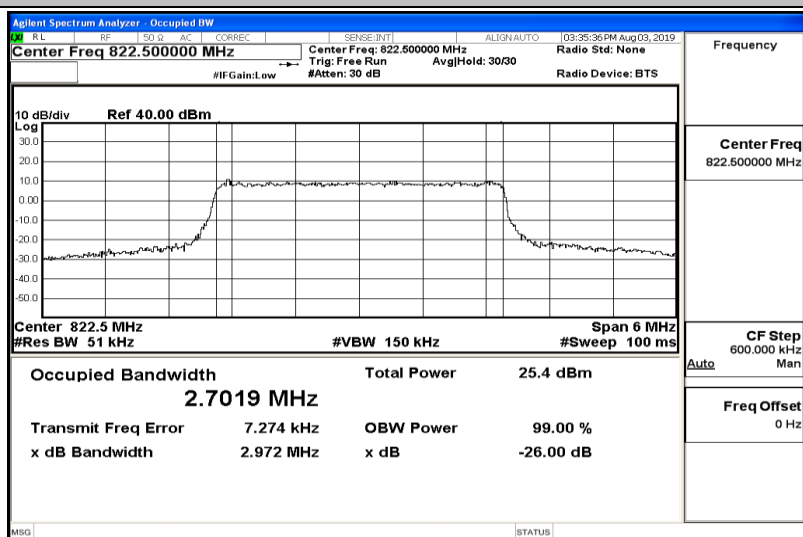
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



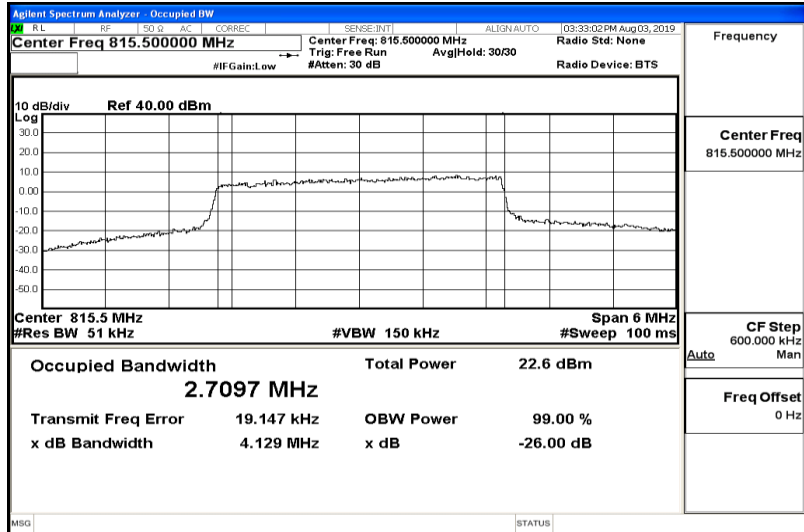
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



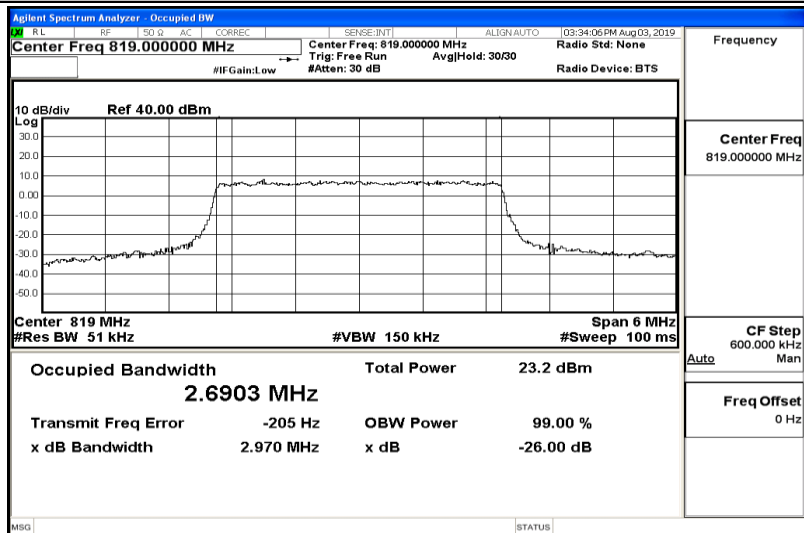
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



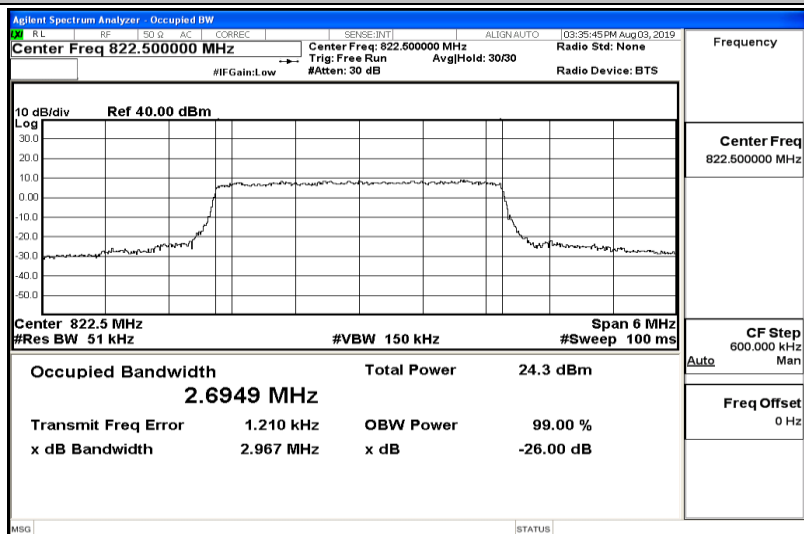
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



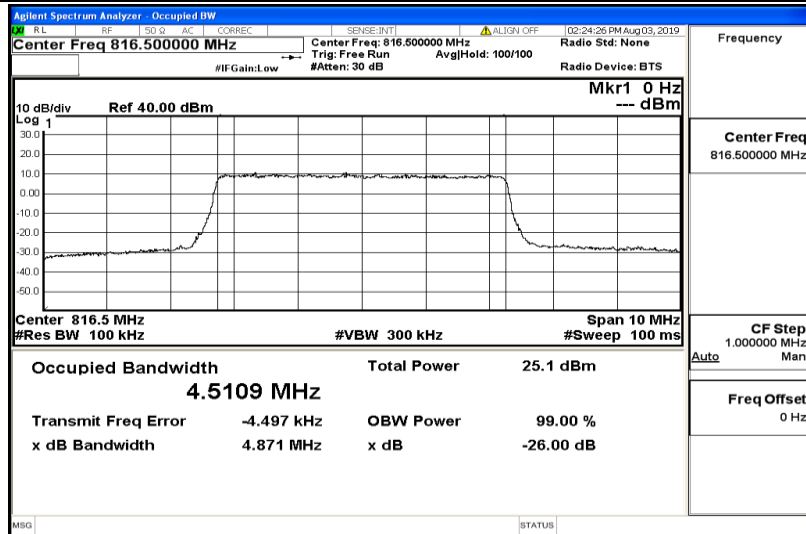
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



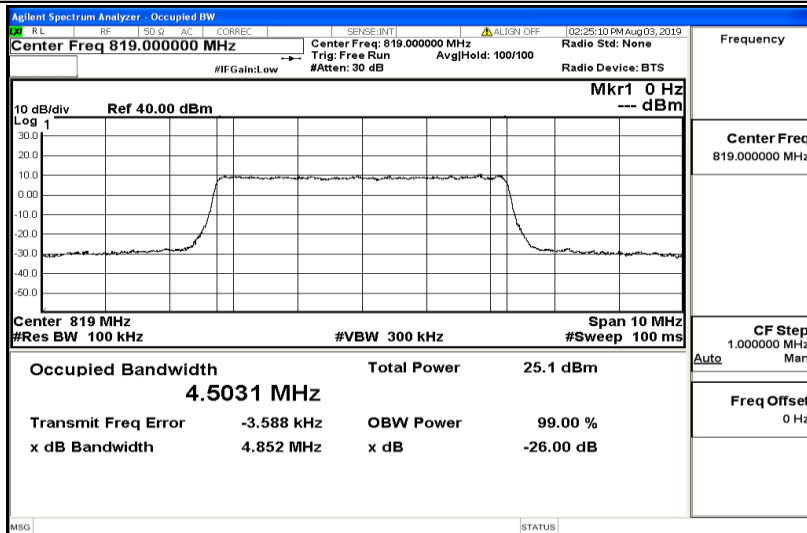
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



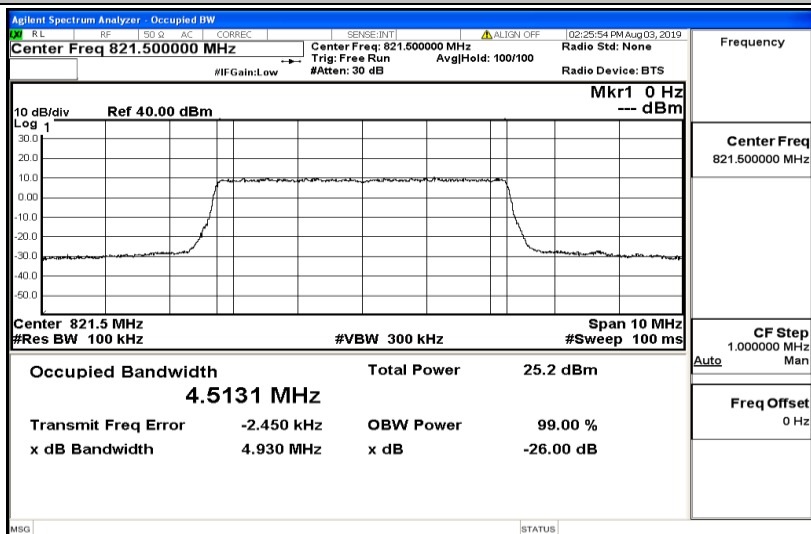
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



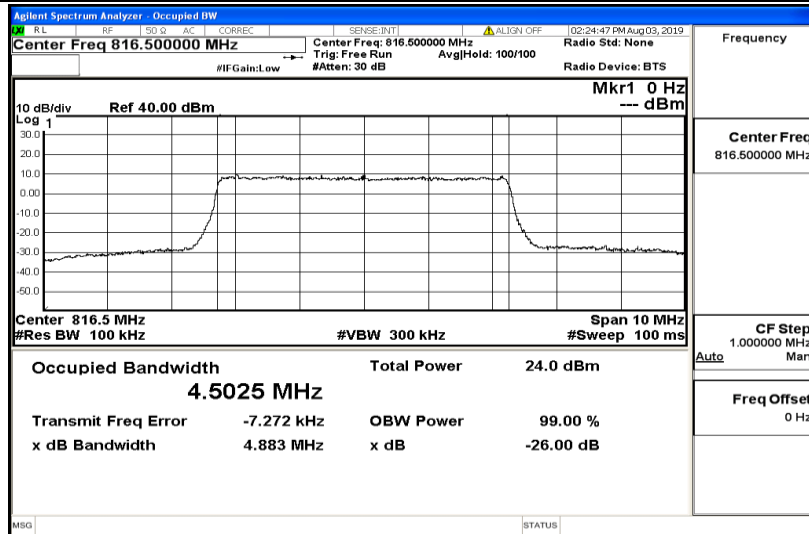
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



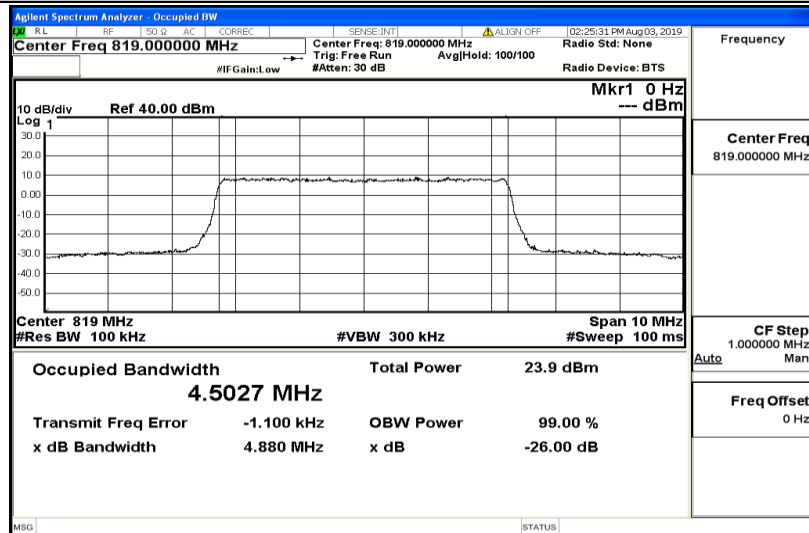
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



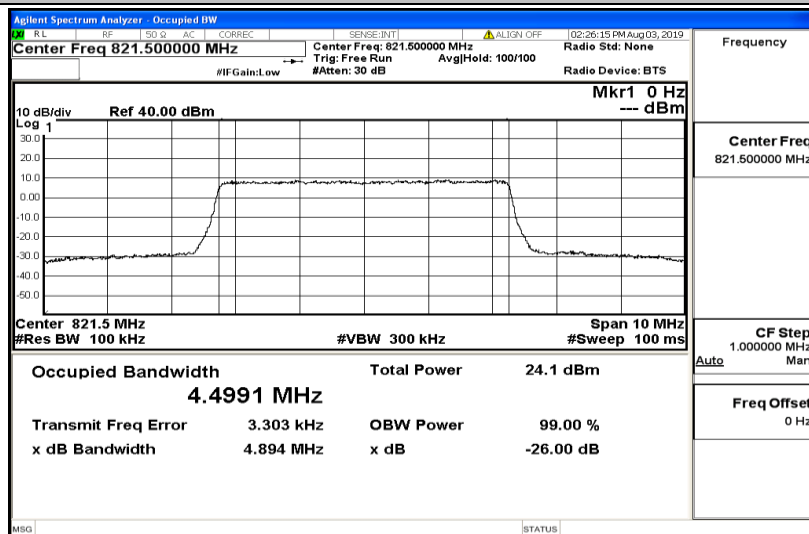
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



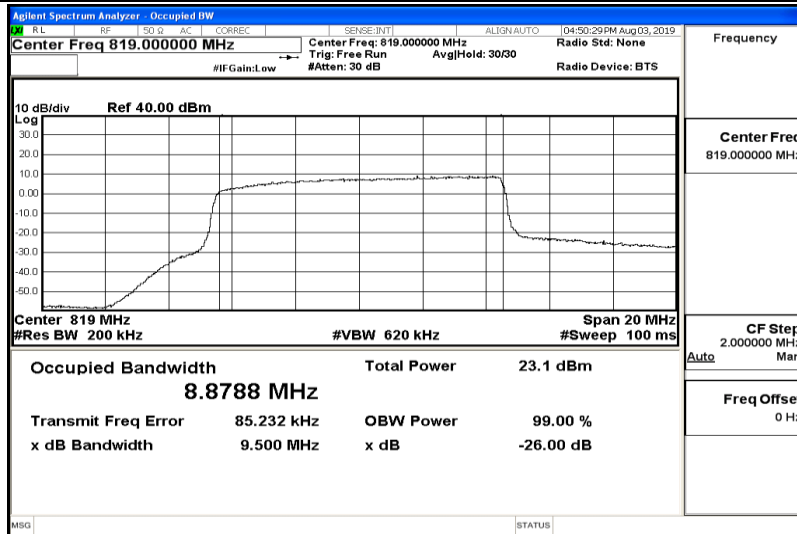
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



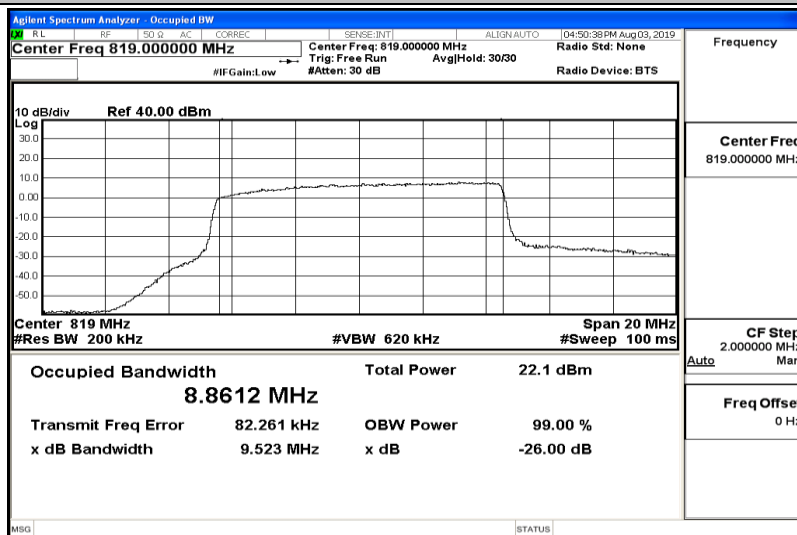
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



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

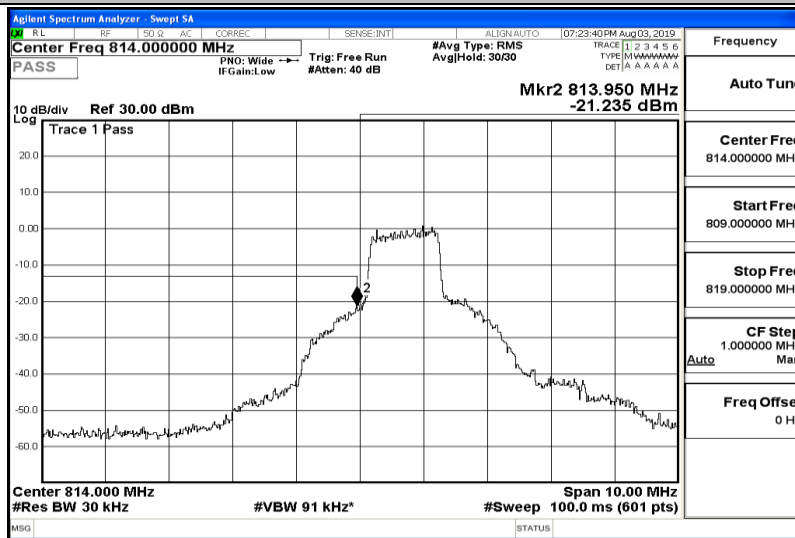


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

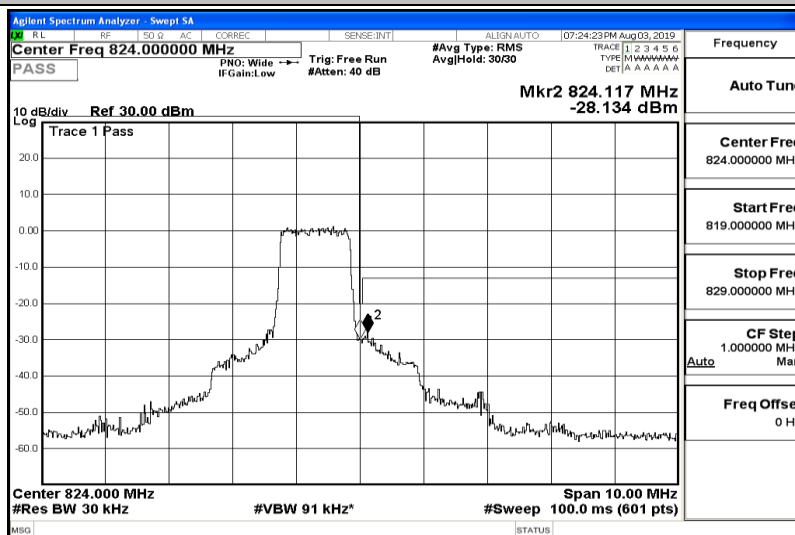


K.4 Band Edge

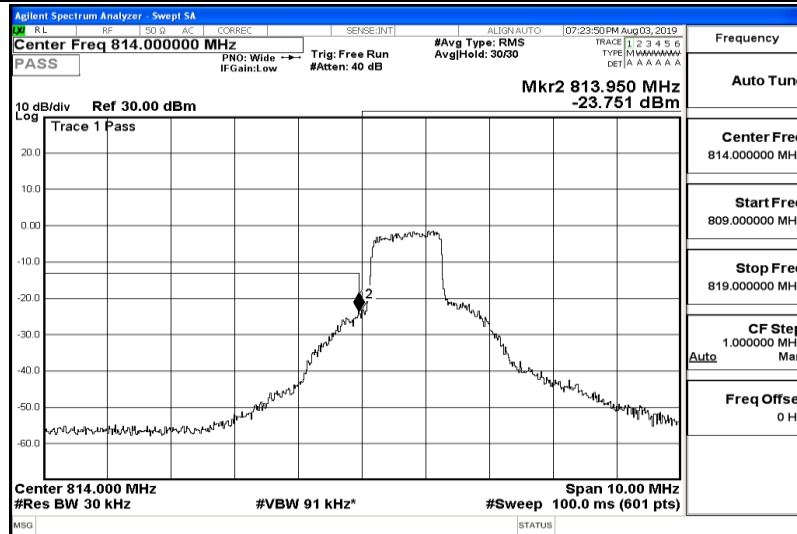
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



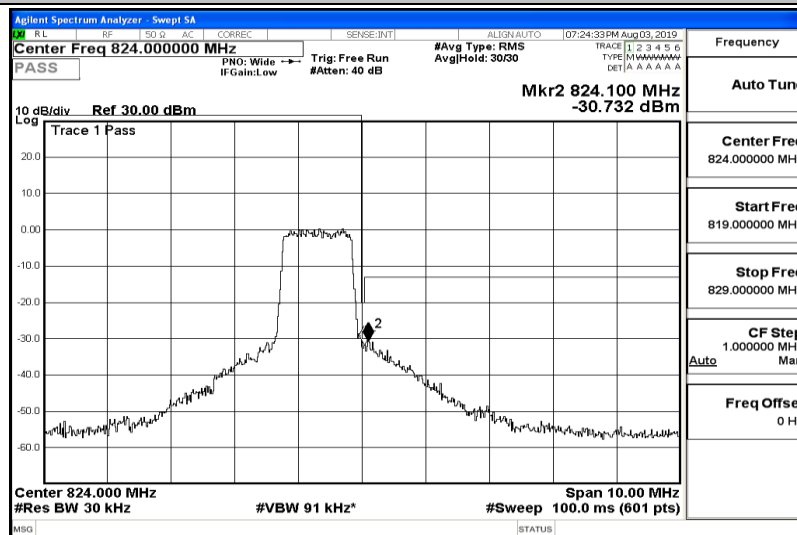
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



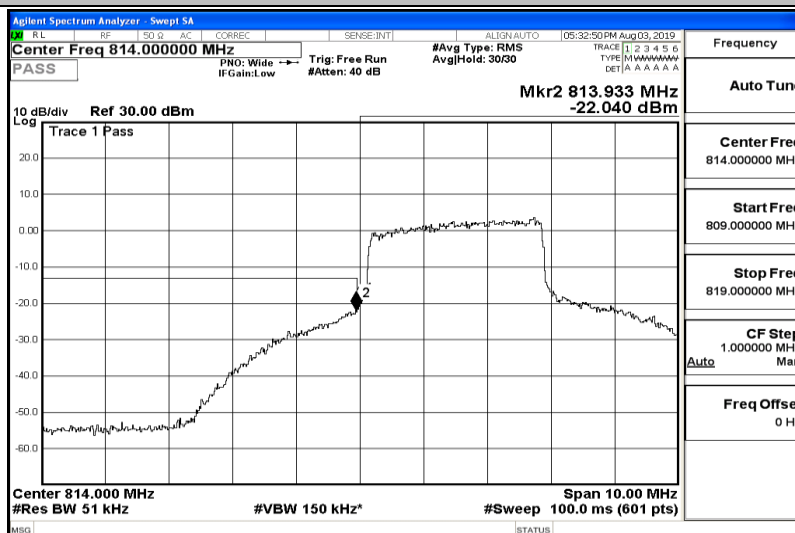
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



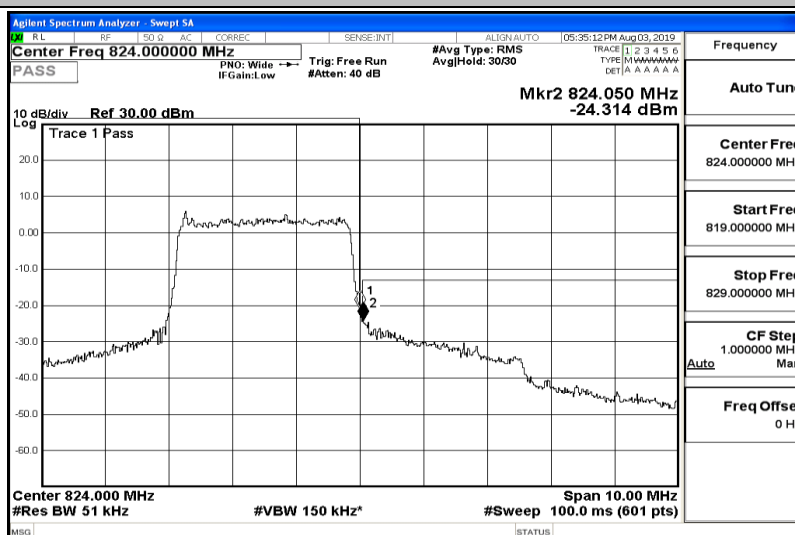
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



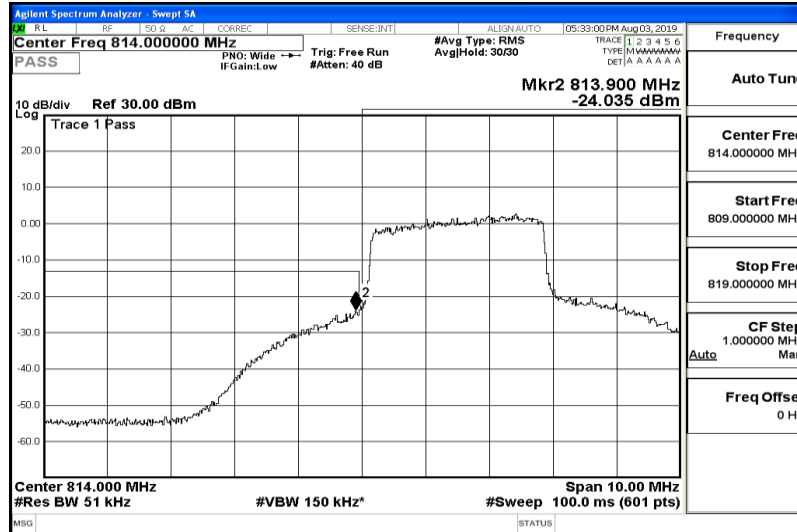
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz) LCH QPSK



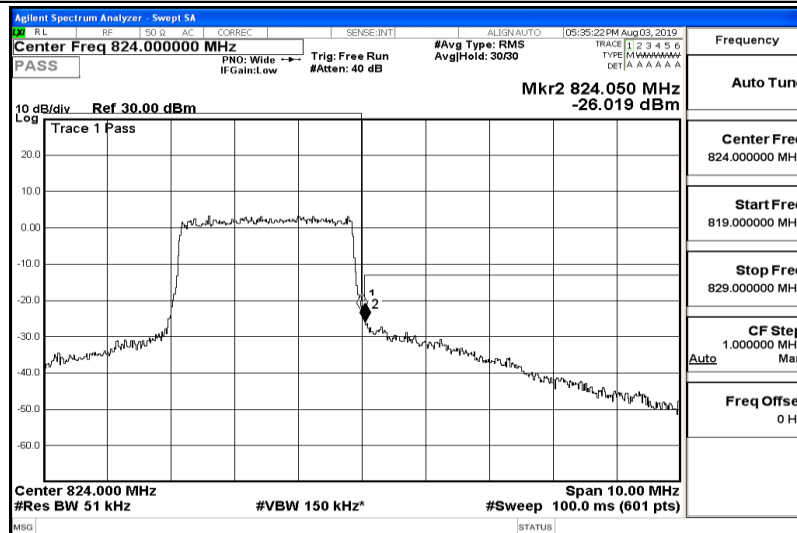
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz) HCH_QPSK



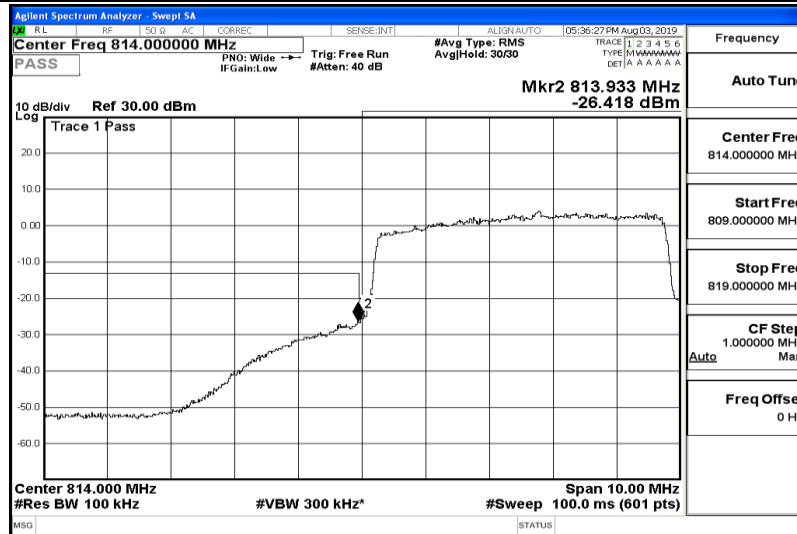
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



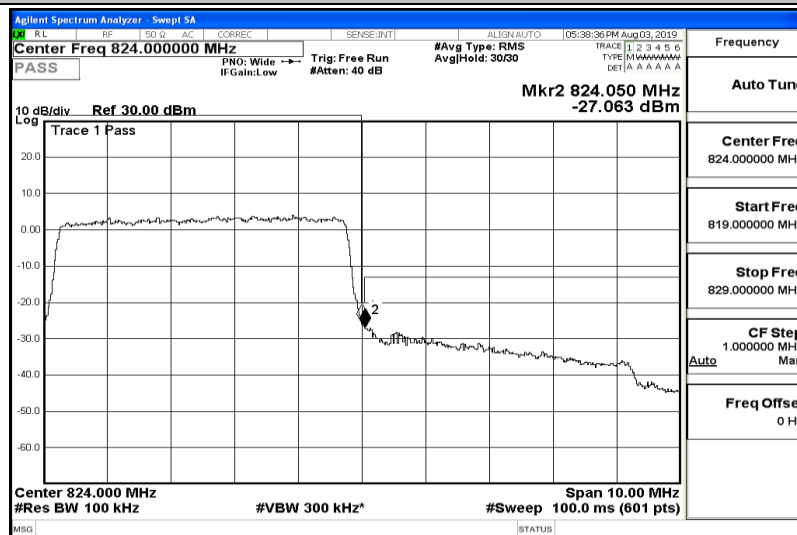
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



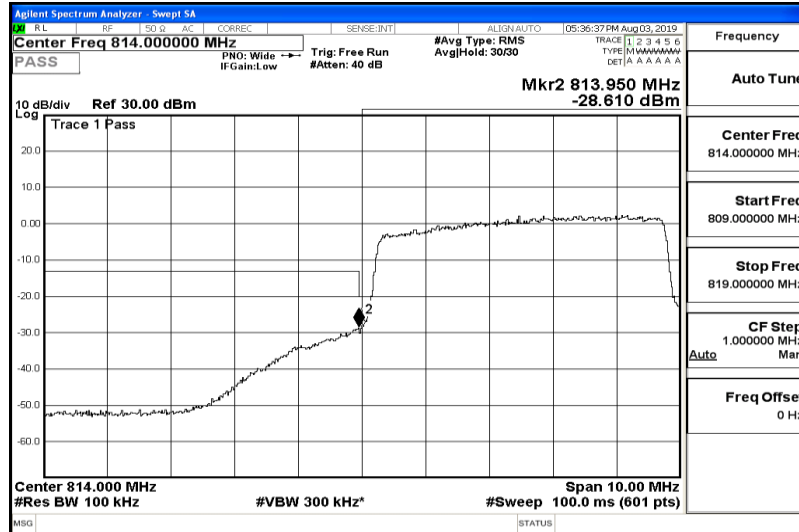
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



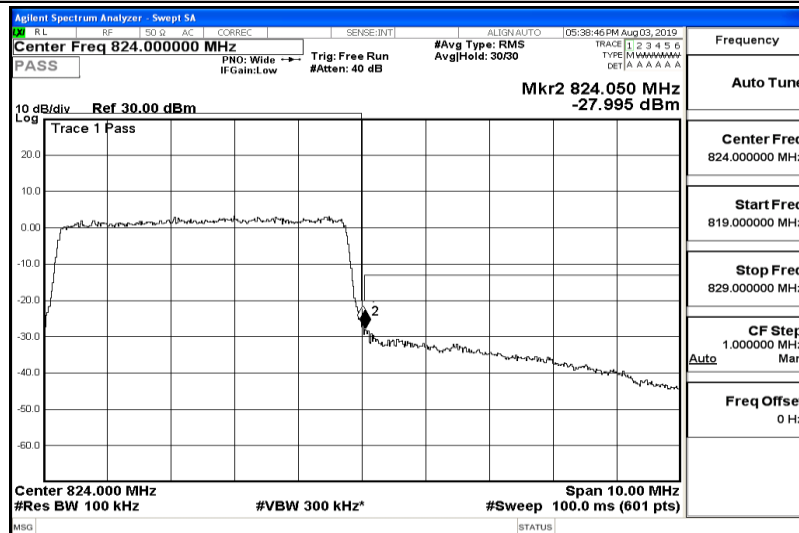
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



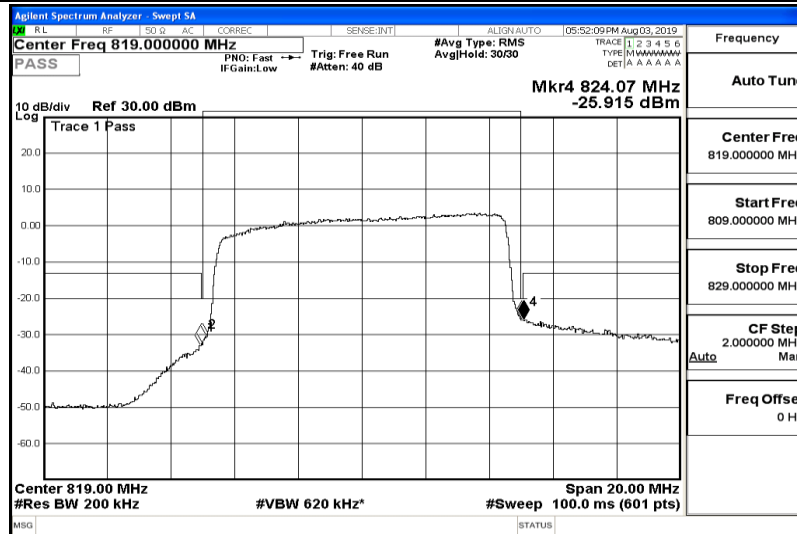
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



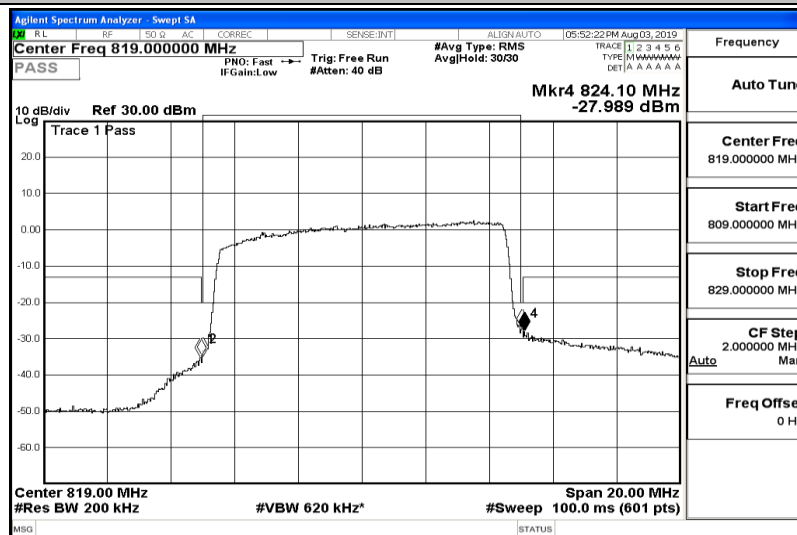
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



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

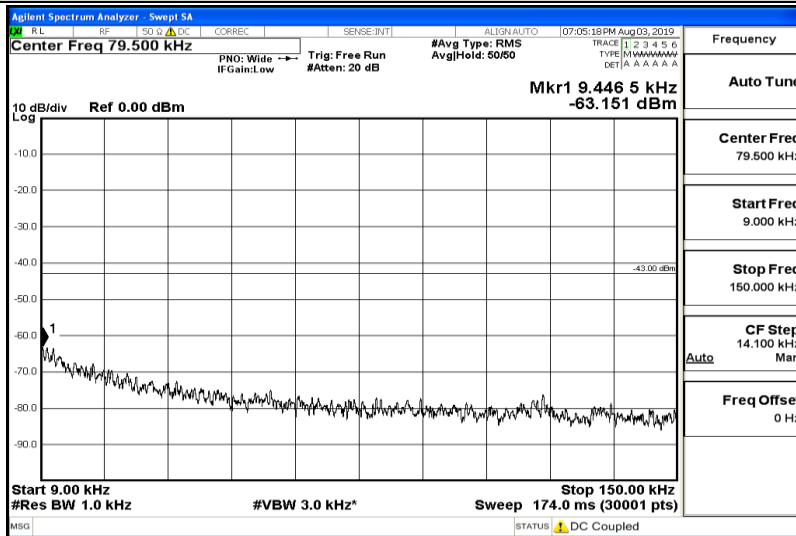


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_ 16QAM

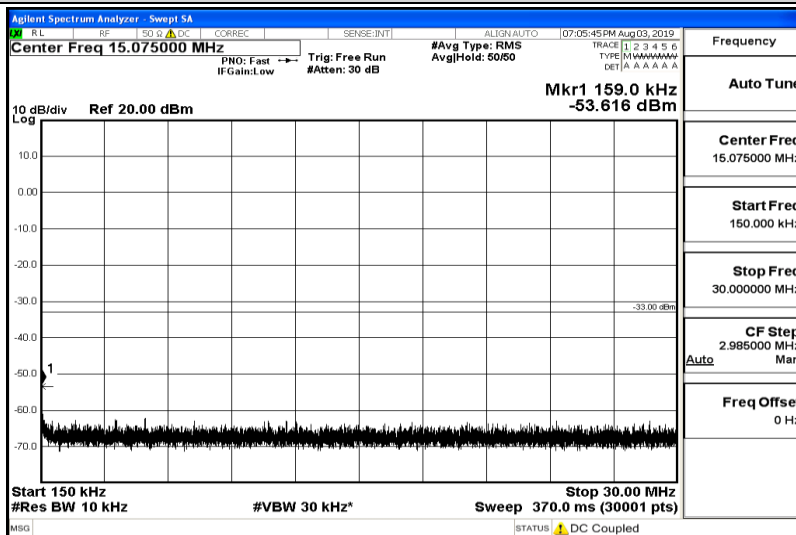


K.5 Conducted Spurious Emission

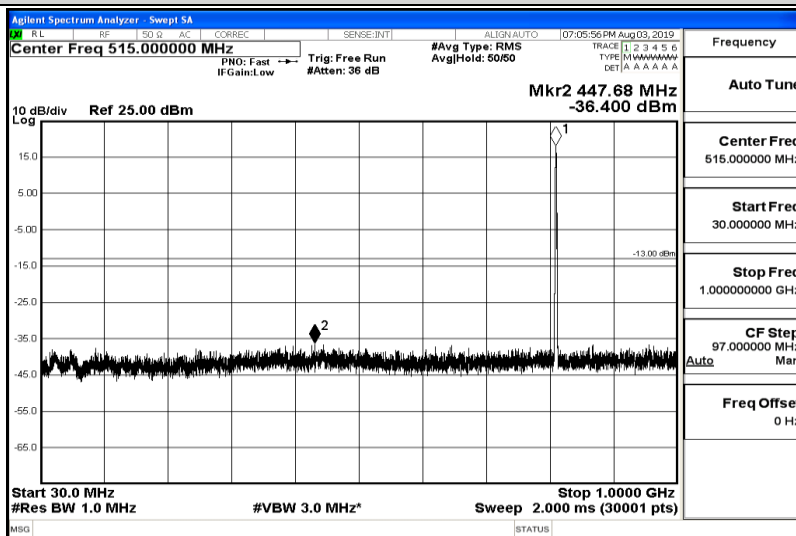
Band26-1.4MHz-QPSK-26697-Range1:0.009~0.15MHz



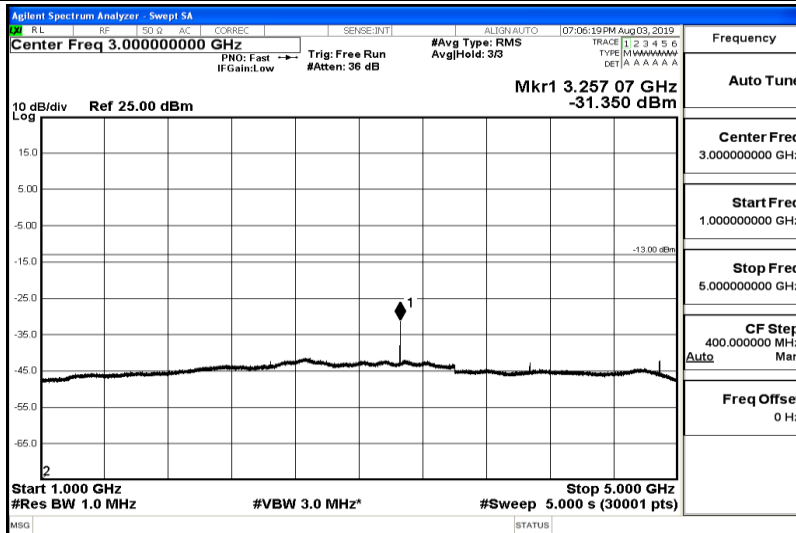
Band26-1.4MHz-QPSK-26697-Range2:0.15~30MHz



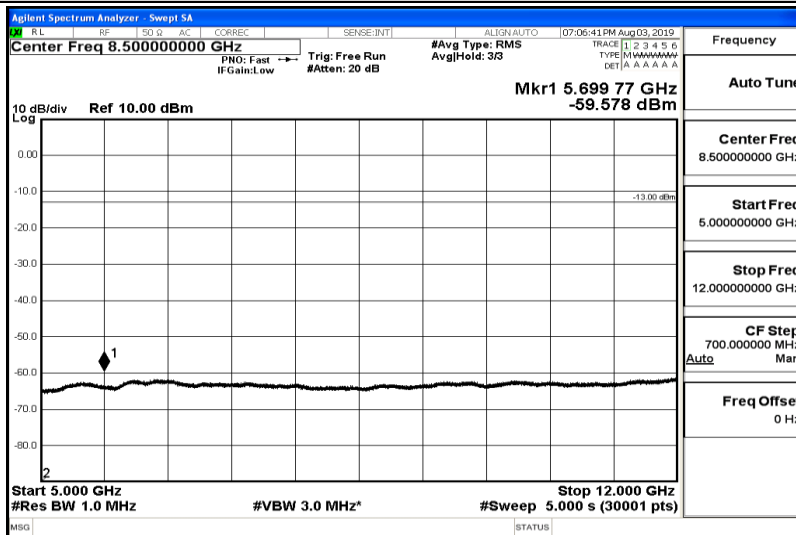
Band26-1.4MHz-QPSK-26697-Range3:30~1000MHz



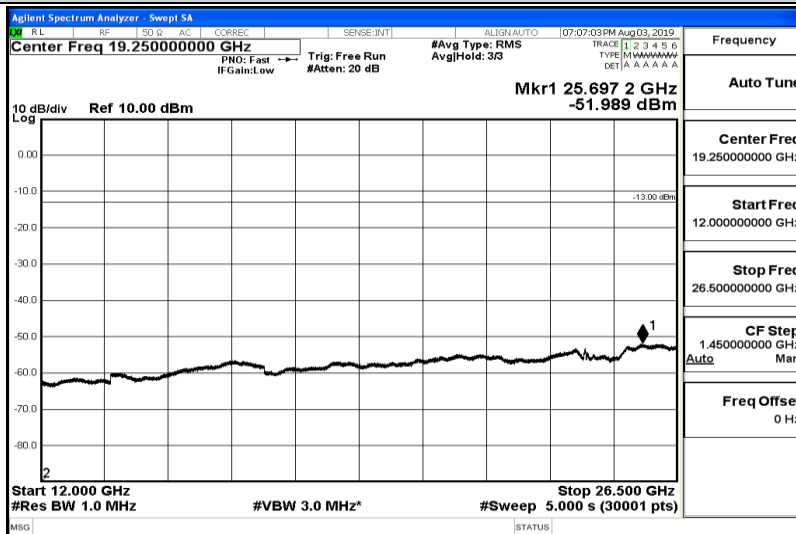
Band26-1.4MHz-QPSK-26697-Range4:1000~5000MHz



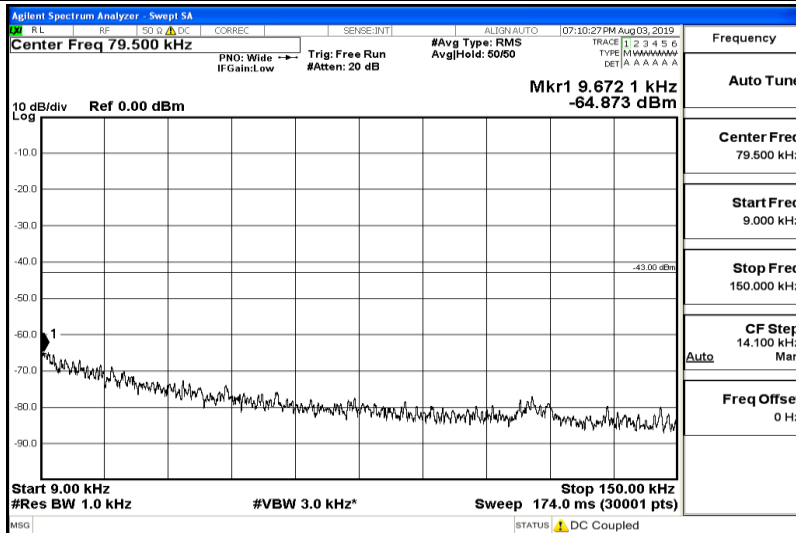
Band26-1.4MHz-QPSK-26697-Range5:5000~12000MHz



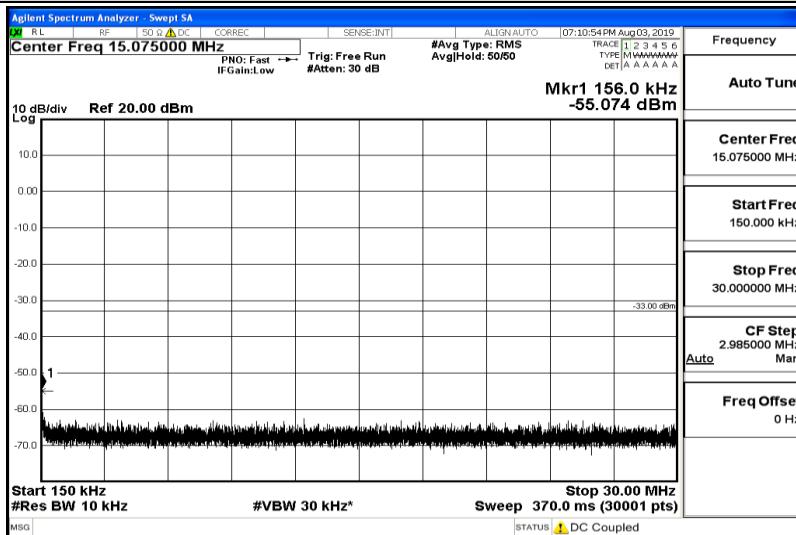
Band26-1.4MHz-QPSK-26697-Range6:12000~26500MHz



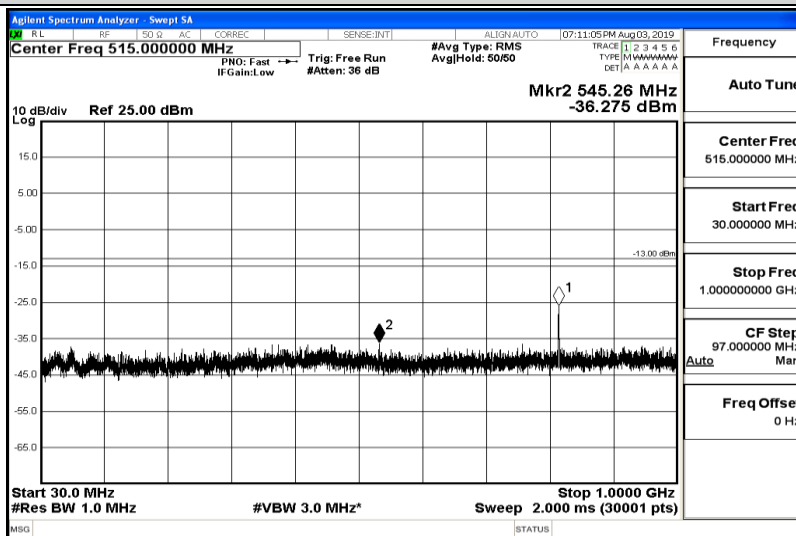
Band26-1.4MHz-QPSK-26740-Range1:0.009~0.15MHz



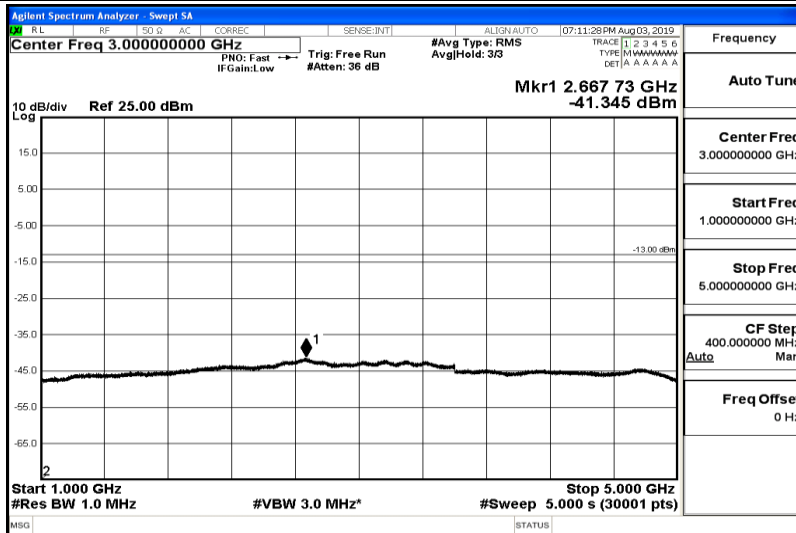
Band26-1.4MHz-QPSK-26740-Range2:0.15~30MHz



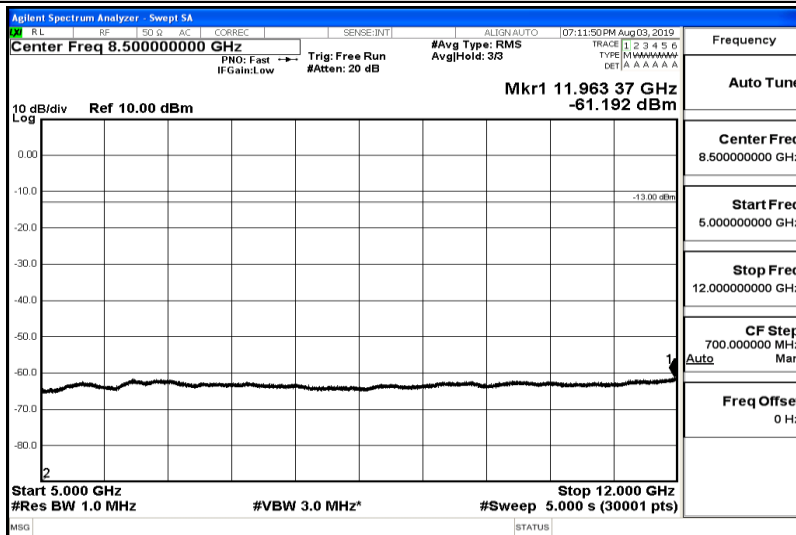
Band26-1.4MHz-QPSK-26740-Range3:30~1000MHz



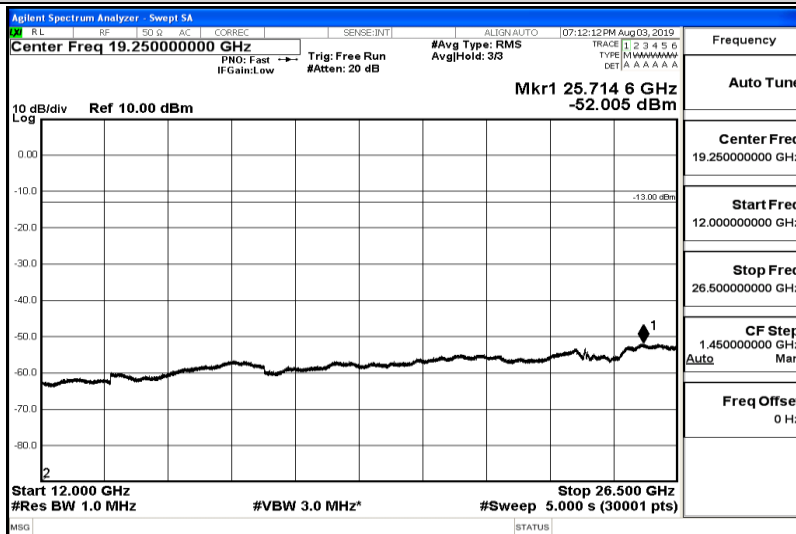
Band26-1.4MHz-QPSK-26740-Range4:1000~5000MHz



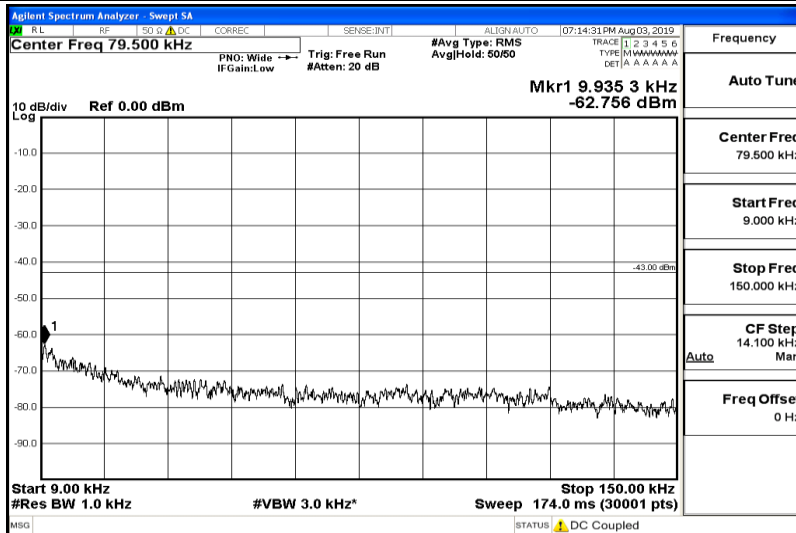
Band26-1.4MHz-QPSK-26740-Range5:5000~12000MHz



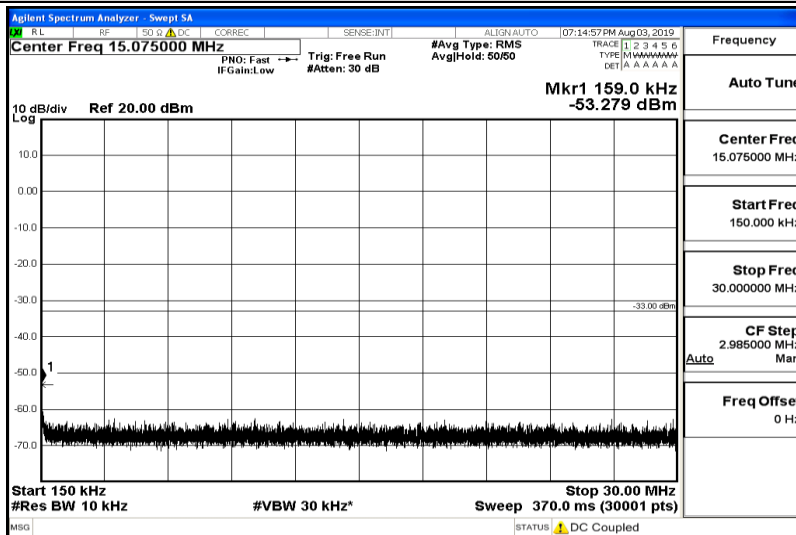
Band26-1.4MHz-QPSK-26740-Range6:12000~26500MHz



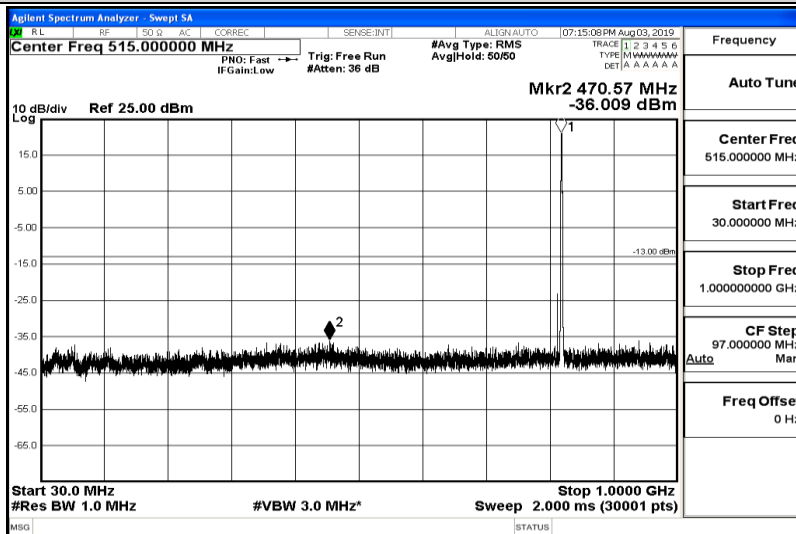
Band26-1.4MHz-QPSK-26783-Range1:0.009~0.15MHz



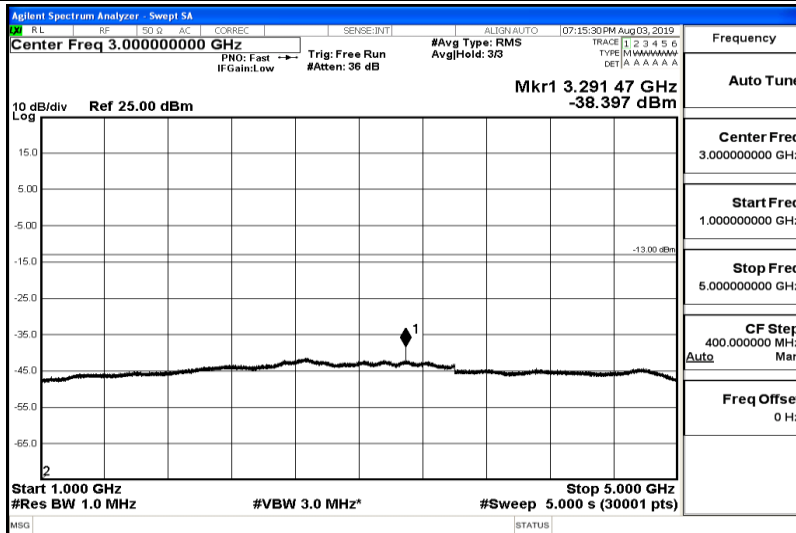
Band26-1.4MHz-QPSK-26783-Range2:0.15~30MHz



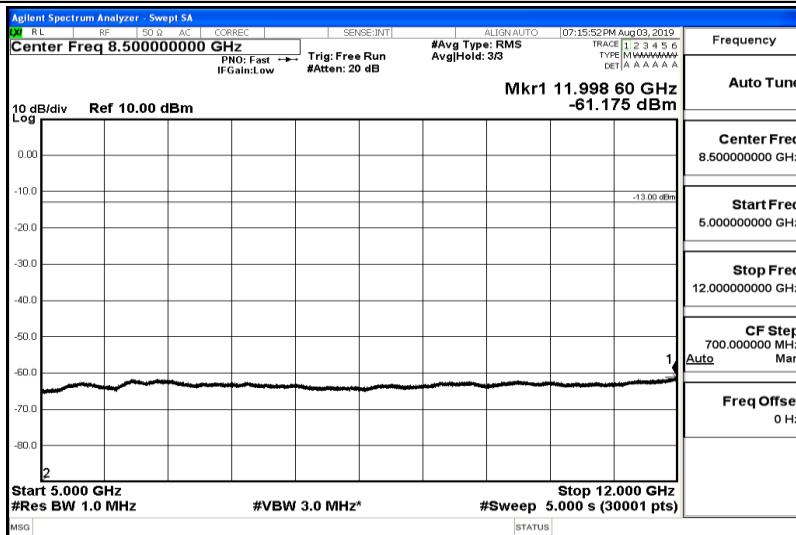
Band26-1.4MHz-QPSK-26783-Range3:30~1000MHz



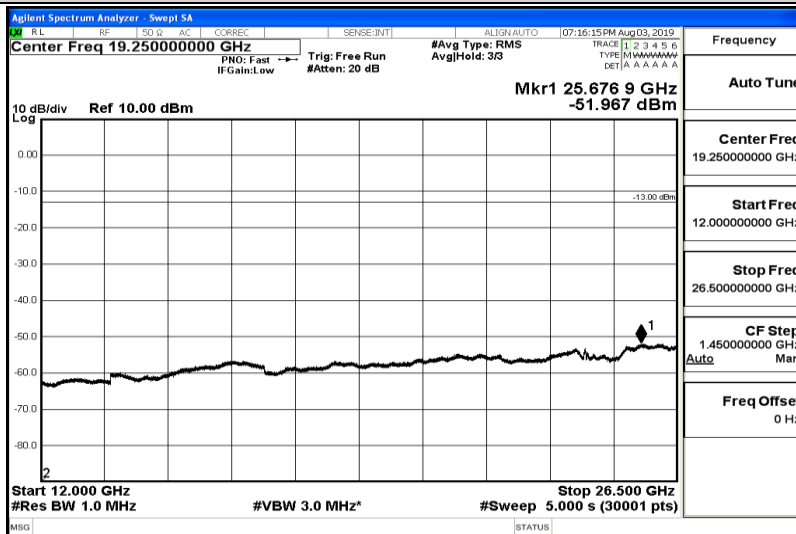
Band26-1.4MHz-QPSK-26783-Range4:1000~5000MHz



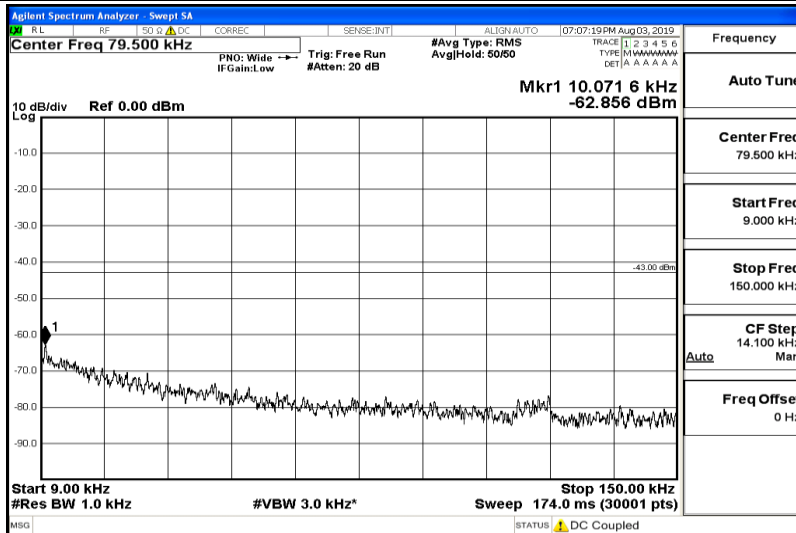
Band26-1.4MHz-QPSK-26783-Range5:5000~12000MHz



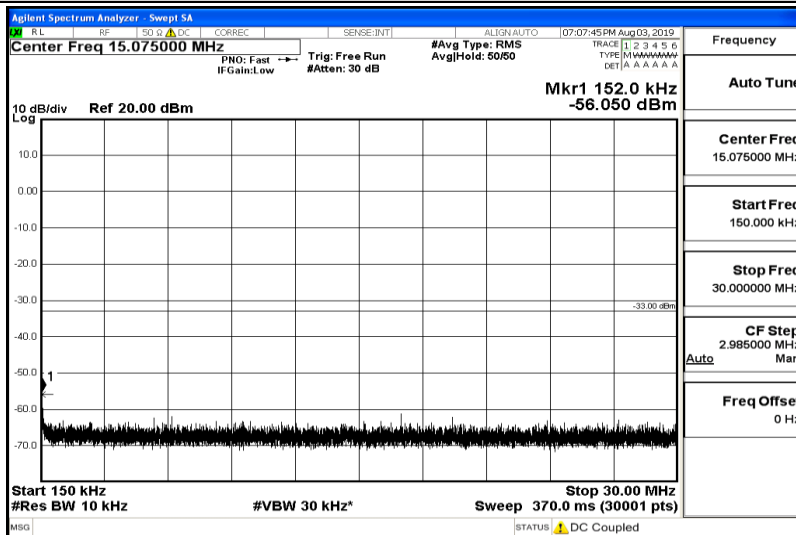
Band26-1.4MHz-QPSK-26783-Range6:12000~26500MHz



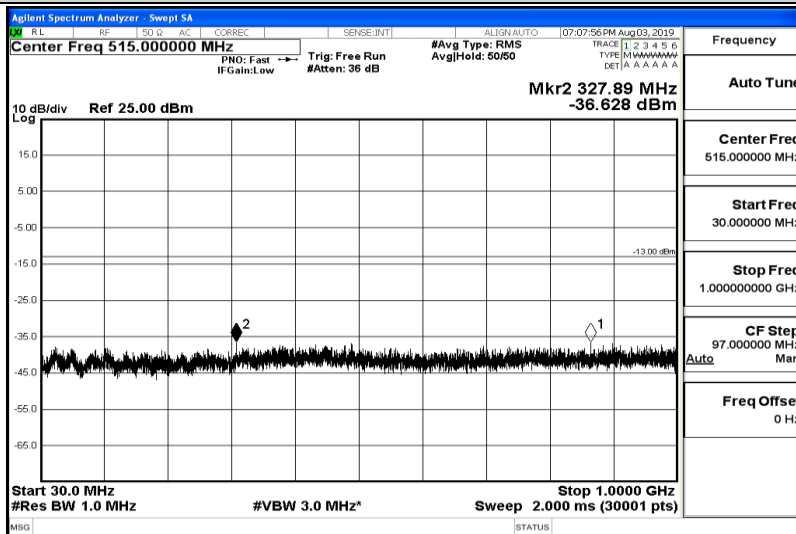
Band26-1.4MHz-16QAM-26697-Range1:0.009~0.15MHz



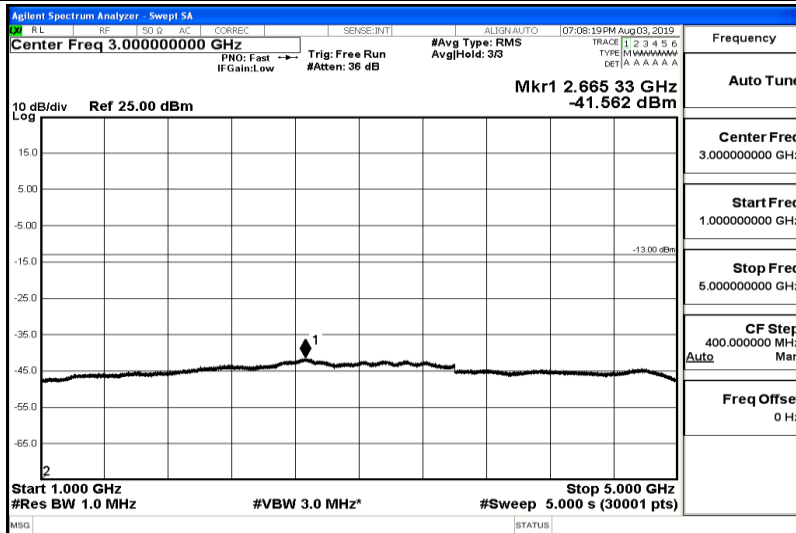
Band26-1.4MHz-16QAM-26697-Range2:0.15~30MHz



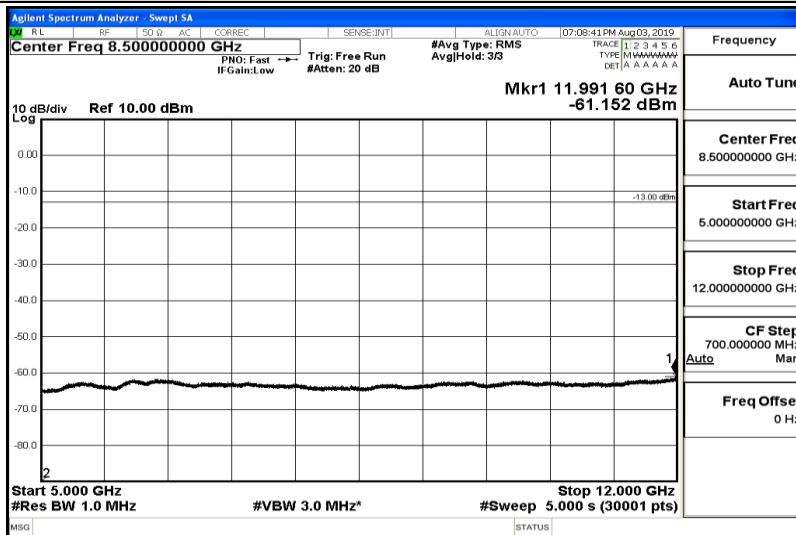
Band26-1.4MHz-16QAM-26697-Range3:30~1000MHz



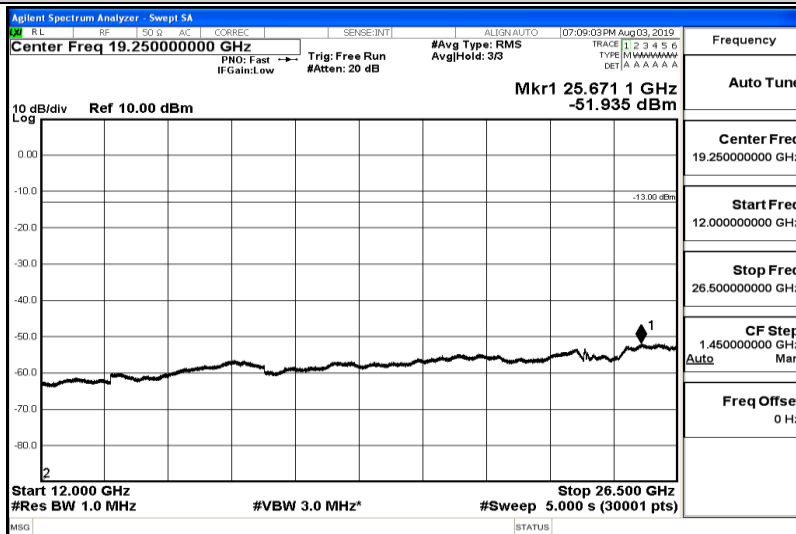
Band26-1.4MHz-16QAM-26697-Range4:1000~5000MHz



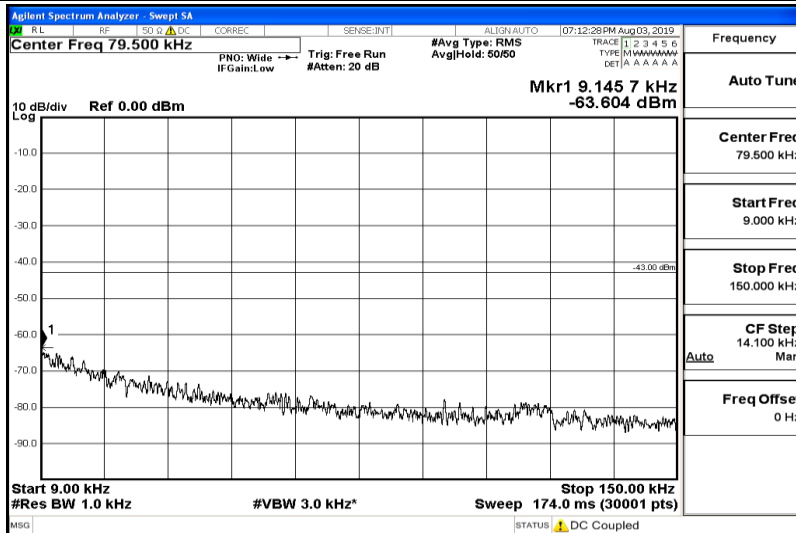
Band26-1.4MHz-16QAM-26697-Range5:5000~12000MHz



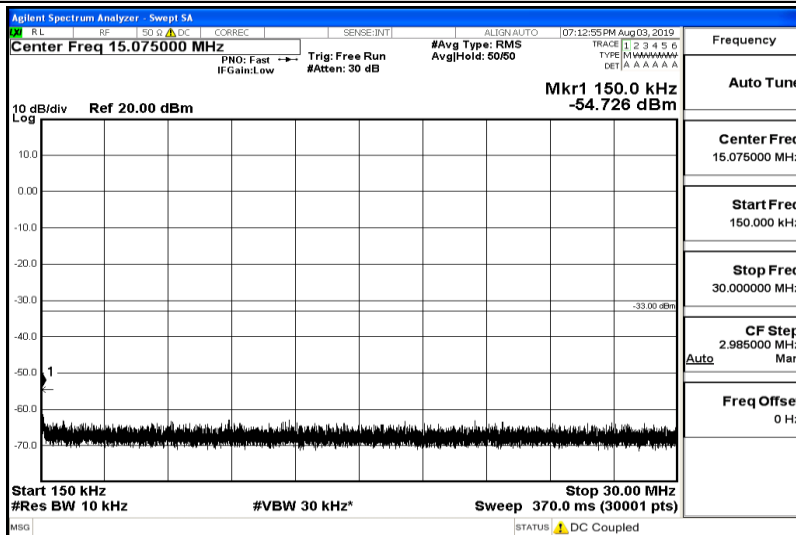
Band26-1.4MHz-16QAM-26697-Range6:12000~26500MHz



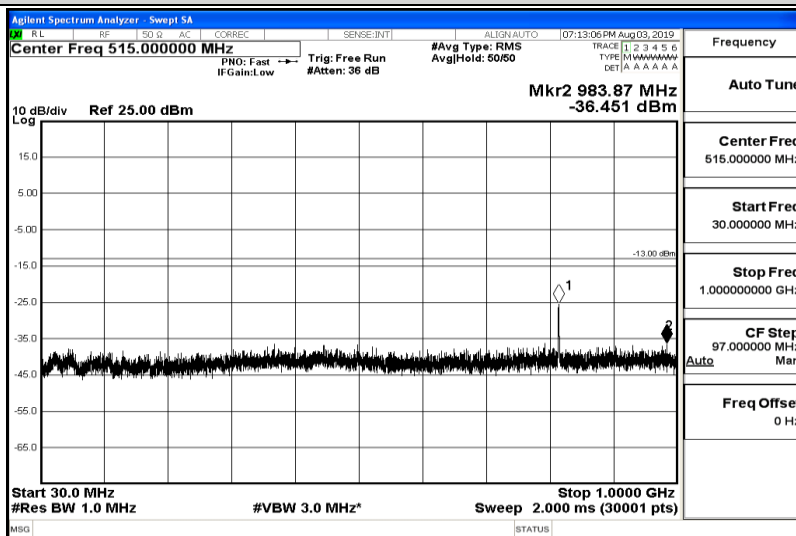
Band26-1.4MHz-16QAM-26740-Range1:0.009~0.15MHz



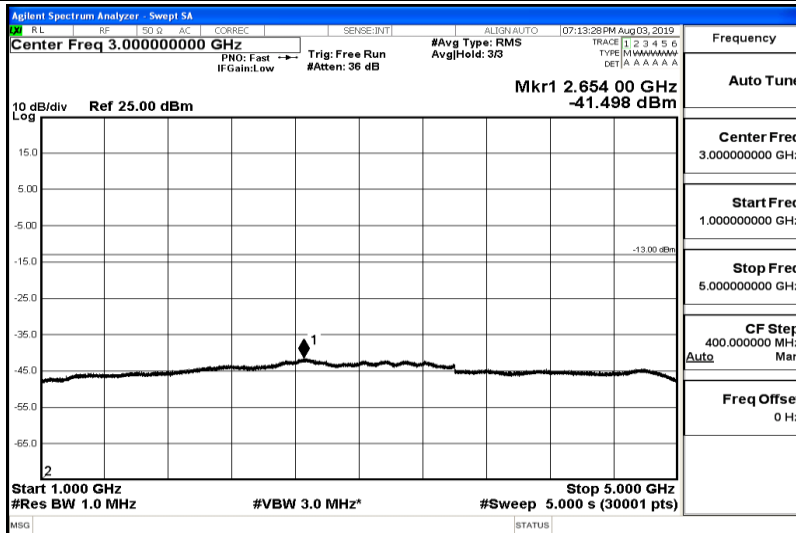
Band26-1.4MHz-16QAM-26740-Range2:0.15~30MHz



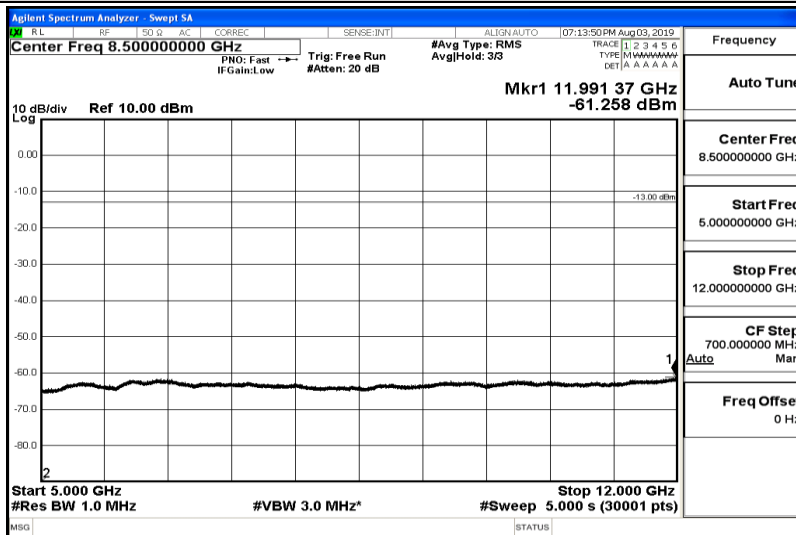
Band26-1.4MHz-16QAM-26740-Range3:30~1000MHz



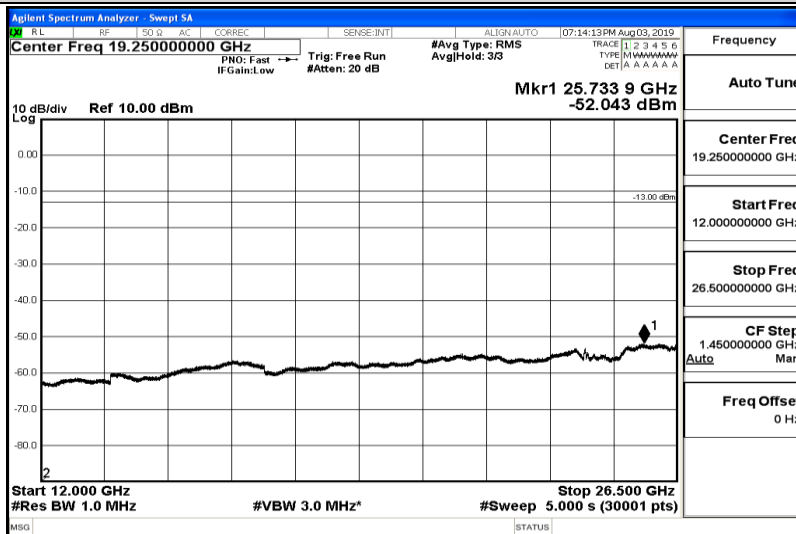
Band26-1.4MHz-16QAM-26740-Range4:1000~5000MHz



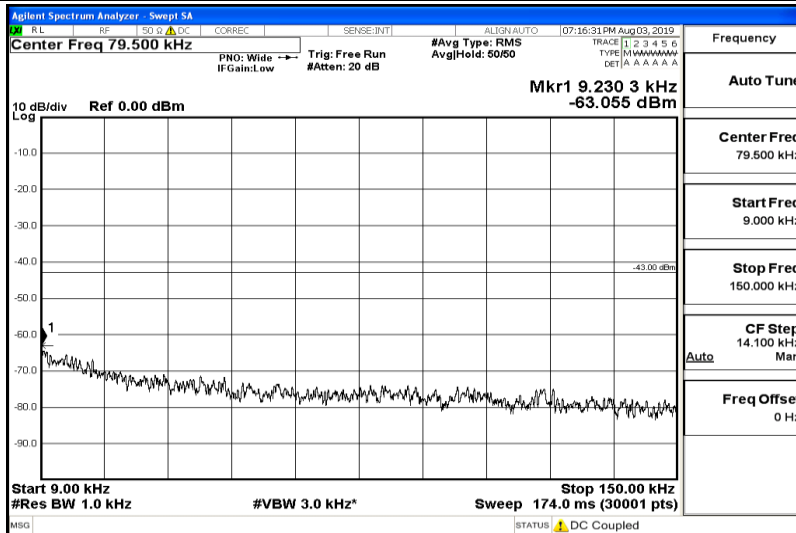
Band26-1.4MHz-16QAM-26740-Range5:5000~12000MHz



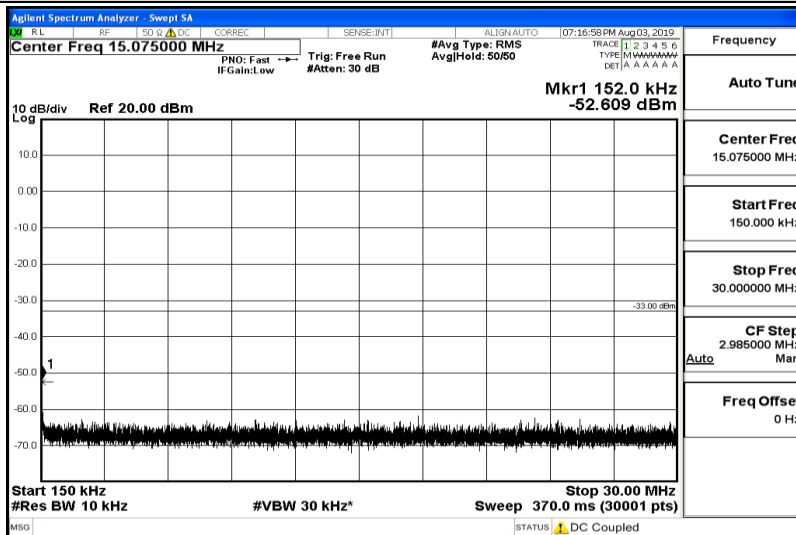
Band26-1.4MHz-16QAM-26740-Range6:12000~26500MHz



Band26-1.4MHz-16QAM-26783-Range1:0.009~0.15MHz



Band26-1.4MHz-16QAM-26783-Range2:0.15~30MHz



Band26-1.4MHz-16QAM-26783-Range3:30~1000MHz

