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

Product Name: POS Terminal
Trade Mark: SmartPeak
Test Model: P500

Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

L.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	23.62	23.32	PASS
		1	3	23.77	23.32	PASS
		1	5	23.65	23.15	PASS
		3	0	23.67	22.81	PASS
		3	2	23.55	22.70	PASS
		3	3	23.53	22.83	PASS
		6	0	23.57	22.33	PASS
	MCH	1	0	23.31	22.76	PASS
		1	3	23.29	22.83	PASS
		1	5	23.13	22.54	PASS
		3	0	23.45	22.13	PASS
		3	2	23.35	22.10	PASS
		3	3	23.29	22.95	PASS
		6	0	23.19	22.19	PASS
	HCH	1	0	23.02	22.19	PASS
		1	3	23.02	22.05	PASS
		1	5	22.95	22.25	PASS
		3	0	23.09	22.33	PASS
		3	2	23.01	22.28	PASS
		3	3	23.09	22.23	PASS
		6	0	23.20	22.12	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	23.44	23.42	PASS
		1	7	23.51	23.04	PASS
		1	14	23.79	23.04	PASS
		8	0	23.70	22.73	PASS
		8	4	23.57	22.52	PASS
		8	7	23.57	22.19	PASS
		15	0	23.63	22.55	PASS
	MCH	1	0	23.41	23.06	PASS
		1	7	23.21	22.90	PASS
		1	14	23.18	22.86	PASS
		8	0	23.41	22.79	PASS
		8	4	23.26	22.88	PASS
		8	7	23.25	22.10	PASS
		15	0	23.38	22.35	PASS
	HCH	1	0	23.30	22.75	PASS
		1	7	22.91	22.30	PASS
		1	14	23.04	22.59	PASS
		8	0	23.39	22.37	PASS
		8	4	23.18	22.04	PASS
		8	7	23.12	22.06	PASS
		15	0	23.15	22.30	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	23.59	23.80	PASS
		1	12	23.33	23.08	PASS
		1	24	23.28	22.89	PASS
		12	0	23.67	22.86	PASS
		12	6	23.49	22.56	PASS
		12	13	23.45	22.55	PASS
		25	0	23.61	22.71	PASS
	MCH	1	0	23.17	22.97	PASS
		1	12	23.13	22.79	PASS
		1	24	23.08	22.69	PASS
		12	0	23.43	22.44	PASS
		12	6	23.27	22.26	PASS
		12	13	23.27	22.26	PASS
		25	0	23.32	22.44	PASS
	HCH	1	0	23.17	22.15	PASS
		1	12	23.38	22.37	PASS
		1	24	23.03	22.20	PASS
		12	0	23.31	22.29	PASS
		12	6	23.20	22.27	PASS
		12	13	23.17	22.22	PASS
		25	0	23.37	22.47	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	23.67	23.56	PASS
		1	24	23.69	23.40	PASS
		1	49	23.11	22.49	PASS
		25	0	23.49	22.32	PASS
		25	12	23.35	22.29	PASS
		25	25	23.30	22.12	PASS
		50	0	23.41	22.35	PASS

L.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	4.67	<13	PASS
	MCH	4.83	<13	PASS
	HCH	4.72	<13	PASS
16QAM	LCH	5.53	<13	PASS
	MCH	5.66	<13	PASS
	HCH	5.54	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.74	<13	PASS
	MCH	4.94	<13	PASS
	HCH	4.85	<13	PASS
16QAM	LCH	5.56	<13	PASS
	MCH	5.77	<13	PASS
	HCH	5.64	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.89	<13	PASS
	MCH	4.99	<13	PASS
	HCH	4.91	<13	PASS
16QAM	LCH	5.70	<13	PASS
	MCH	5.78	<13	PASS
	HCH	5.70	<13	PASS

| Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	MCH	5.07	<13	PASS
16QAM	MCH	5.81	<13	PASS

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK
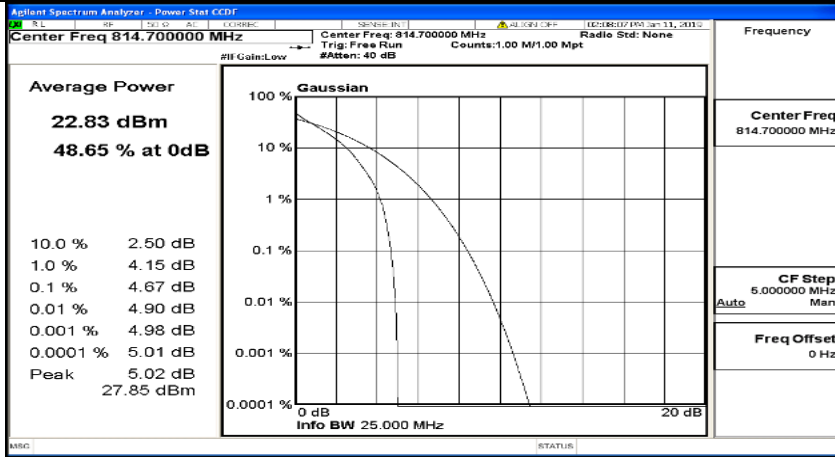
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK
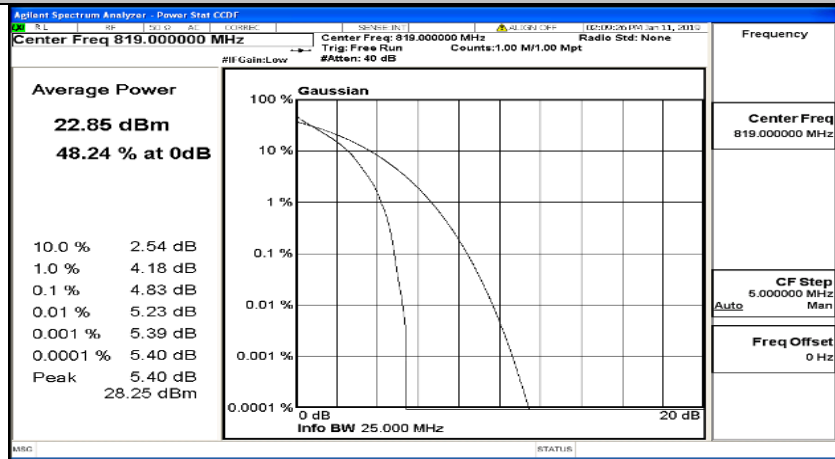
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK
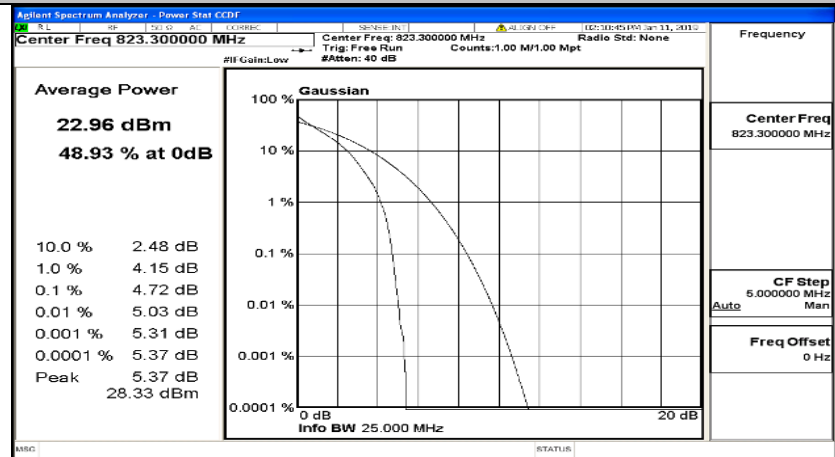
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM
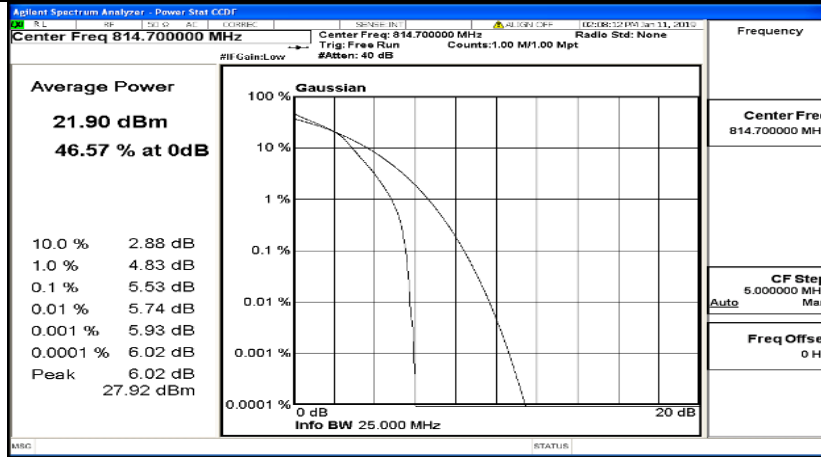
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM
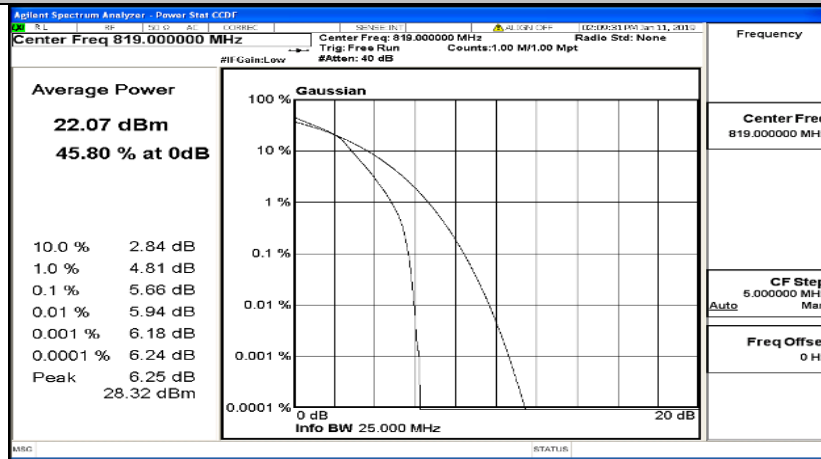
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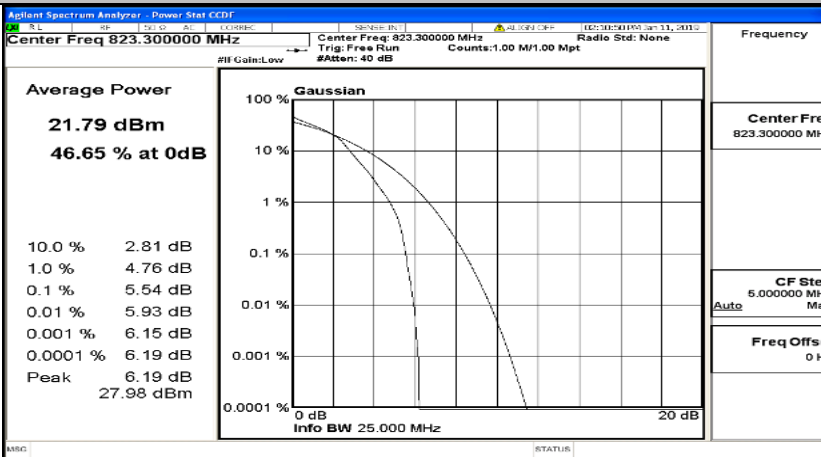
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK
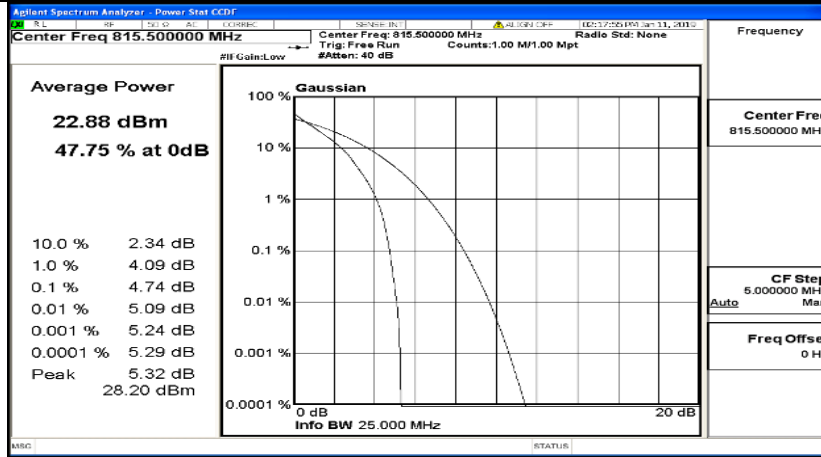
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK
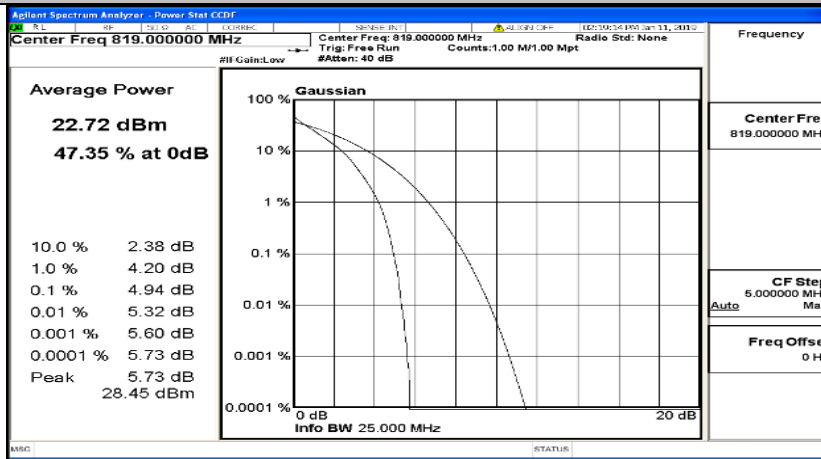
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK
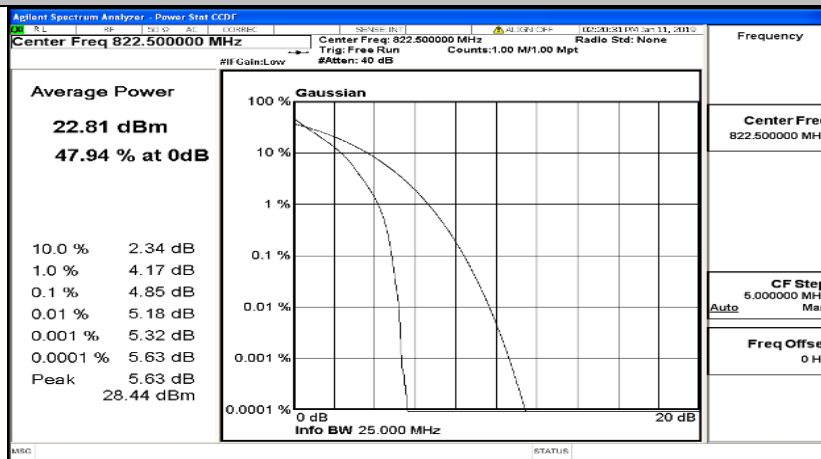
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM
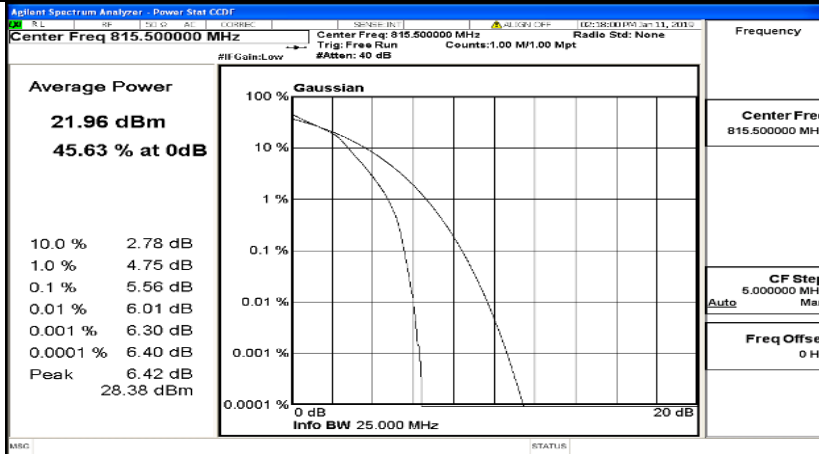
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM
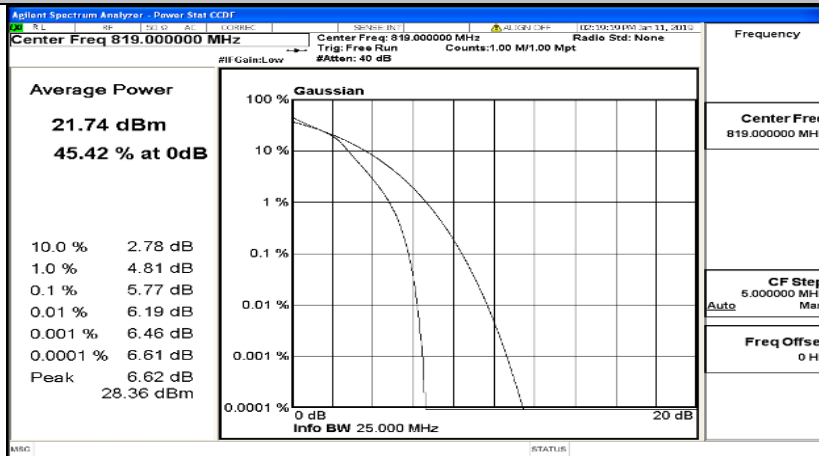
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM
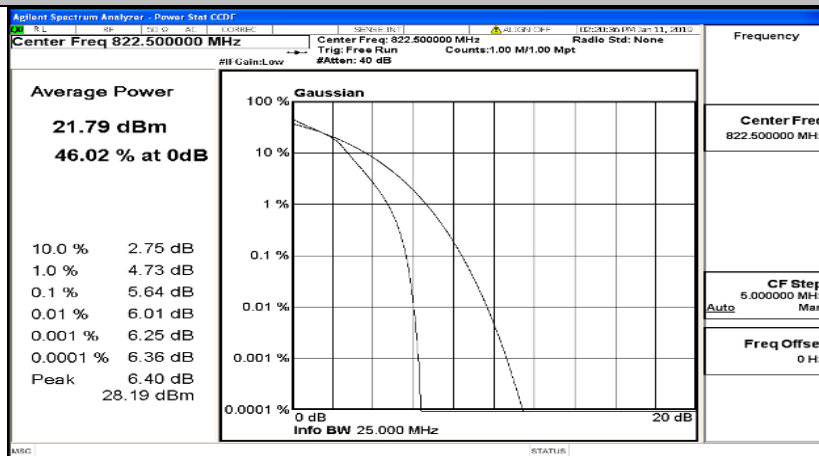
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
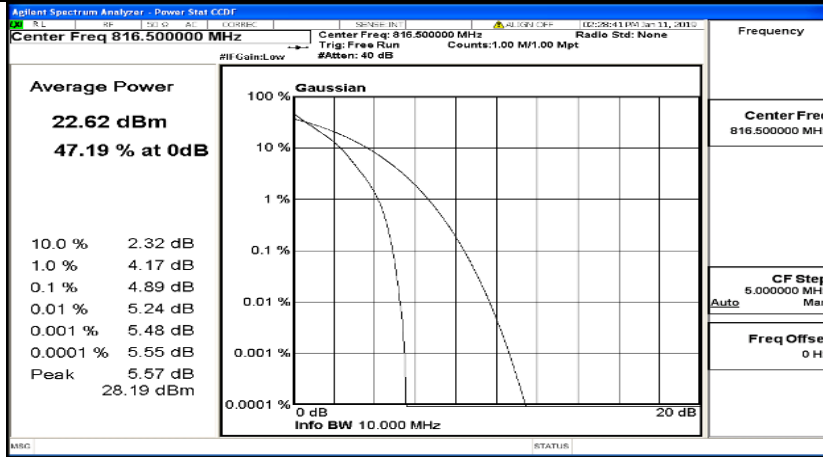
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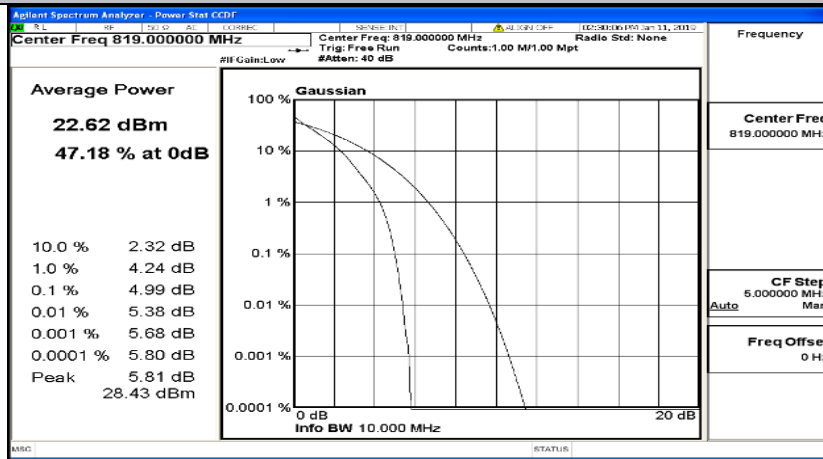
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
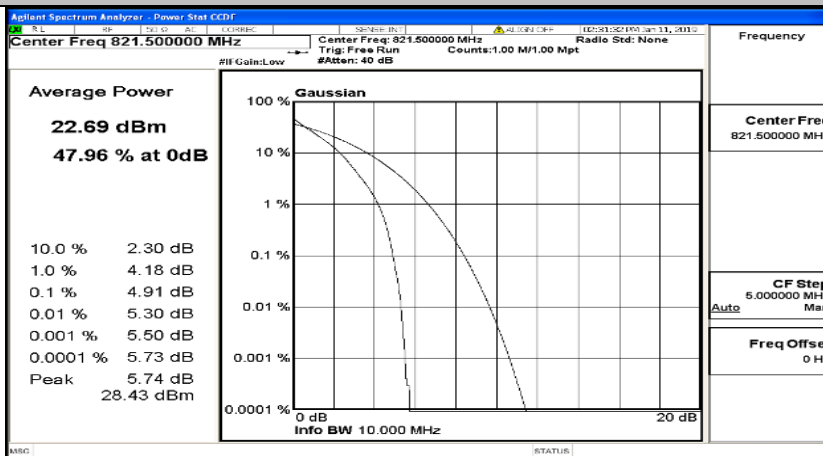
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
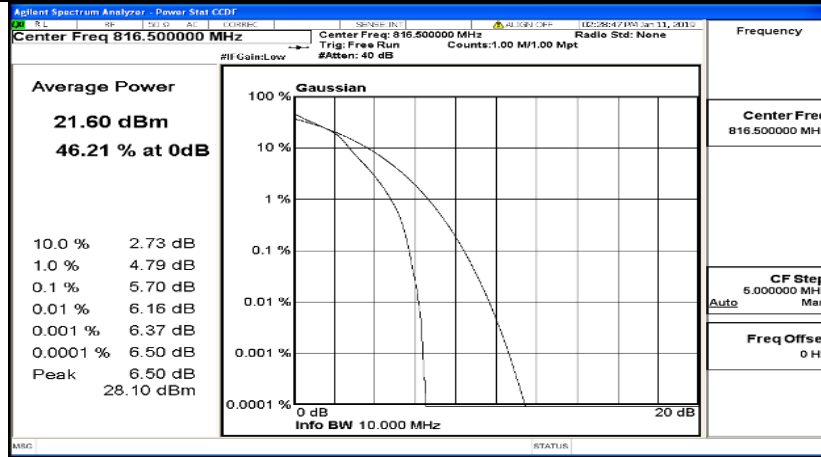
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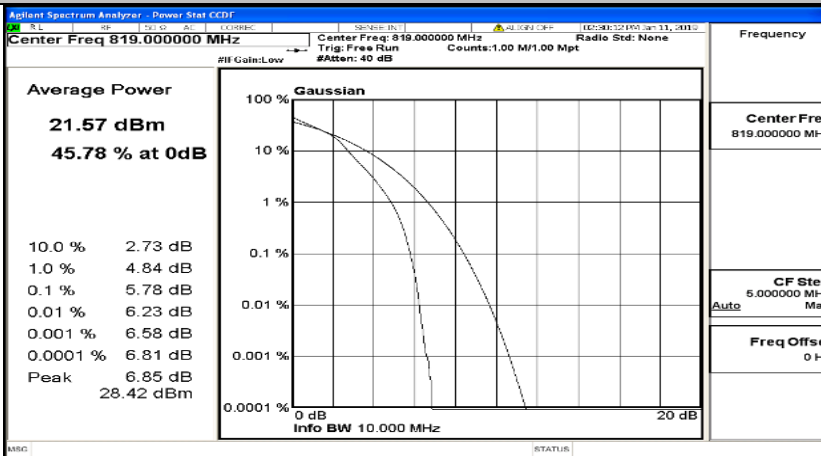
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
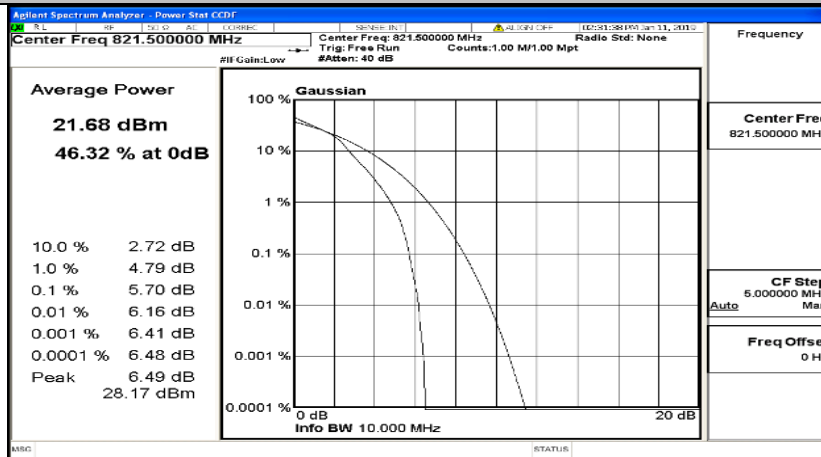
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK
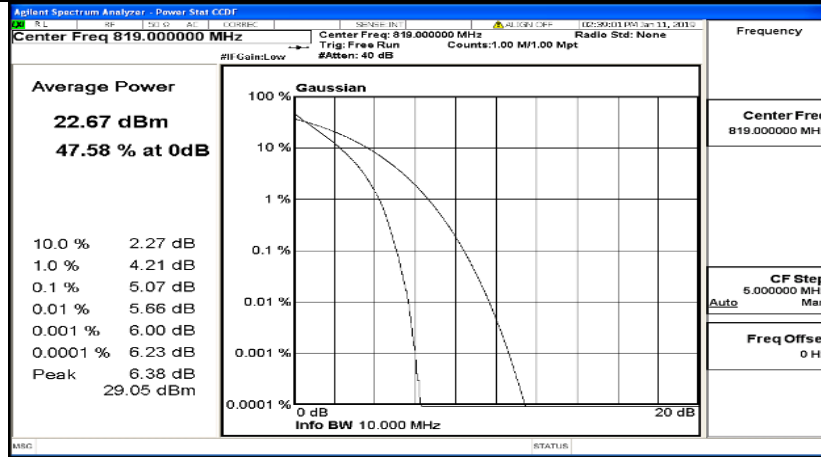
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM
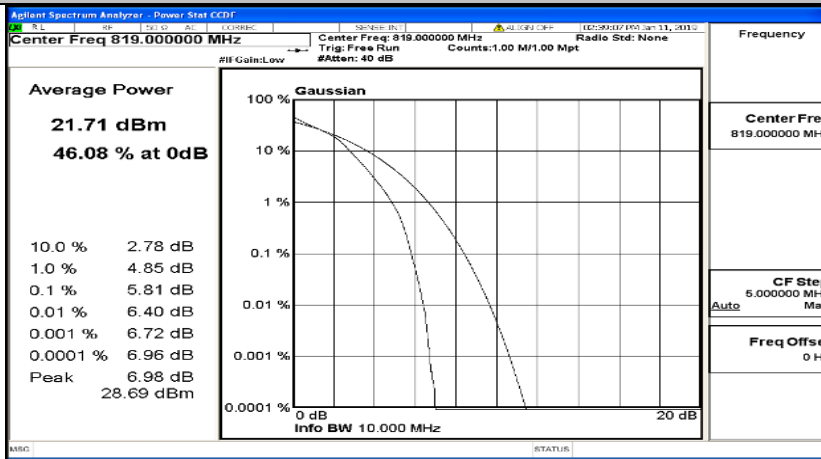
L.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0929	1.264	PASS
QPSK	MCH	1.0901	1.276	PASS
QPSK	HCH	1.0959	1.255	PASS
16QAM	LCH	1.0903	1.236	PASS
16QAM	MCH	1.0889	1.263	PASS
16QAM	HCH	1.0880	1.273	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6938	2.914	PASS
QPSK	MCH	2.7052	2.937	PASS
QPSK	HCH	2.7101	2.939	PASS
16QAM	LCH	2.6984	2.915	PASS
16QAM	MCH	2.7011	2.939	PASS
16QAM	HCH	2.7049	2.932	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
QPSK	MCH	4.5031	4.852	PASS
QPSK	HCH	4.5131	4.930	PASS
16QAM	LCH	4.5025	4.883	PASS
16QAM	MCH	4.5027	4.880	PASS
16QAM	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	8.9791	9.563	PASS
16QAM	MCH	8.9707	9.554	PASS

EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK
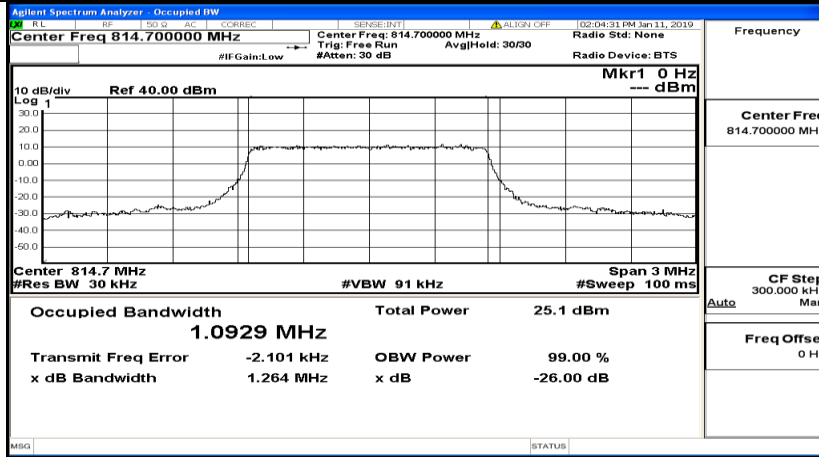
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK
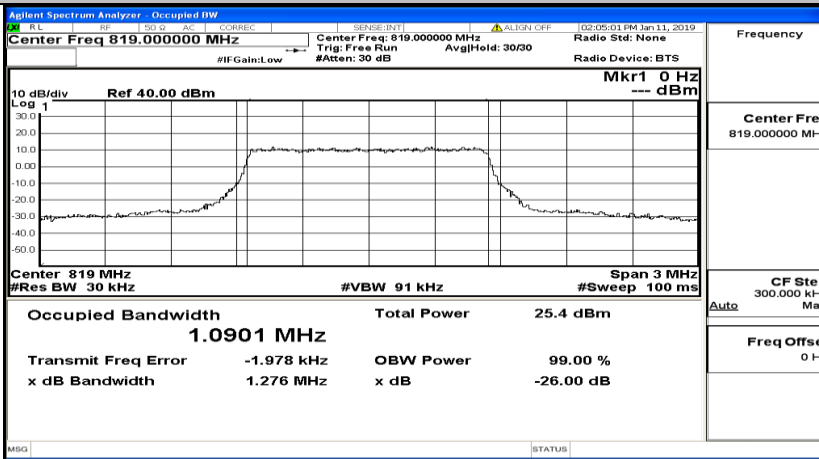
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK
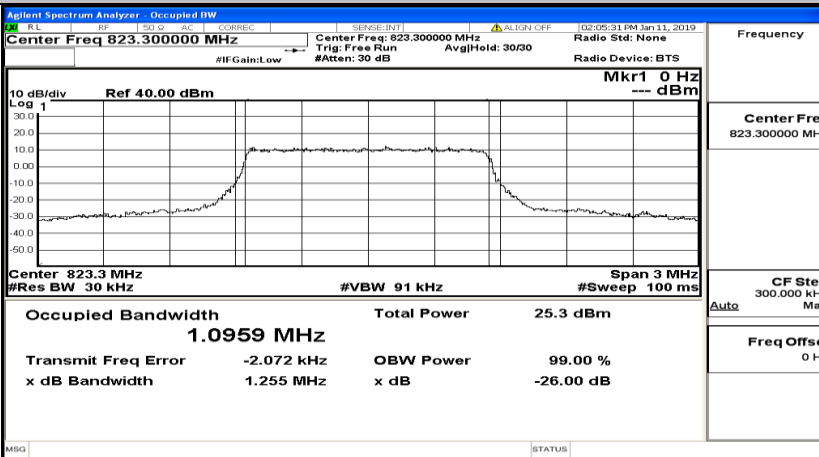
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM
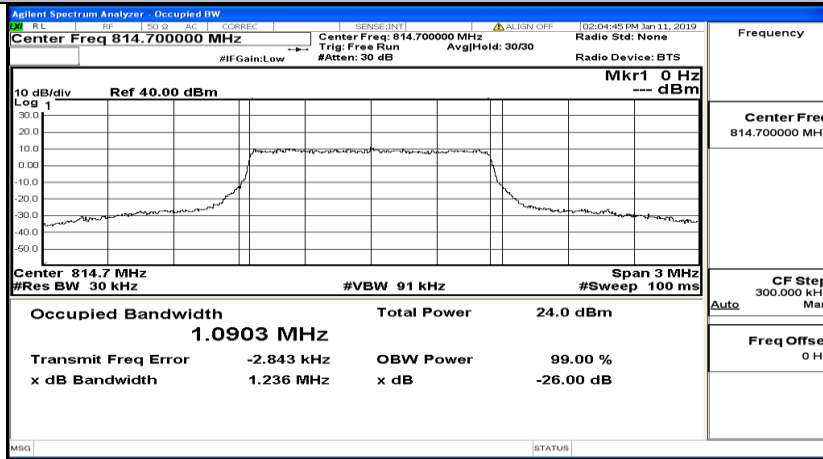
Occupied Bandwidth		Total Power	24.0 dBm
	1.0903 MHz		
Transmit Freq Error	-2.843 kHz	OBW Power	99.00 %
x dB Bandwidth	1.236 MHz	x dB	-26.00 dB

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

Occupied Bandwidth		Total Power	23.9 dBm
	1.0889 MHz		
Transmit Freq Error	-1.313 kHz	OBW Power	99.00 %
x dB Bandwidth	1.263 MHz	x dB	-26.00 dB

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

Occupied Bandwidth		Total Power	24.4 dBm
	1.0880 MHz		
Transmit Freq Error	-426 Hz	OBW Power	99.00 %
x dB Bandwidth	1.273 MHz	x dB	-26.00 dB

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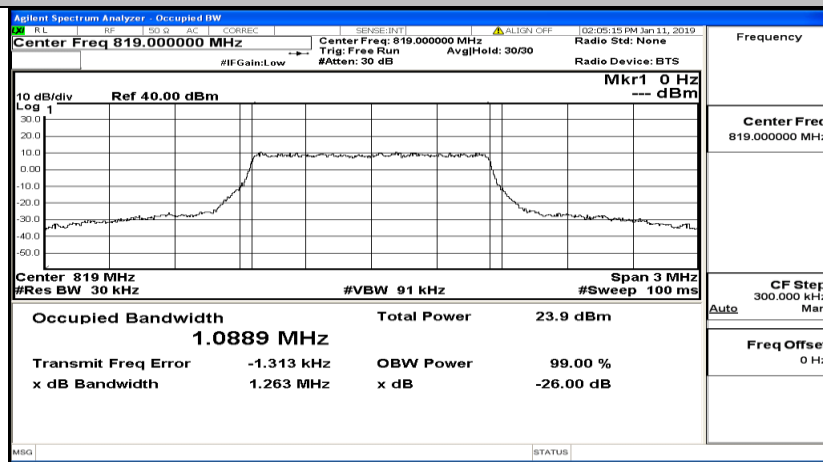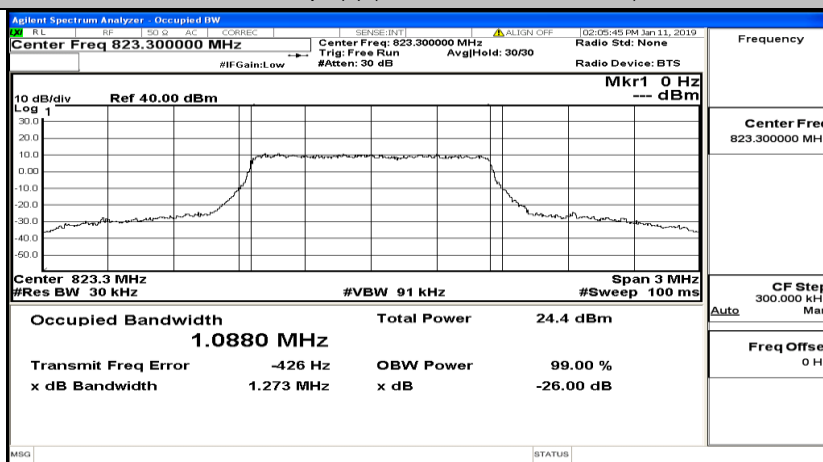
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK
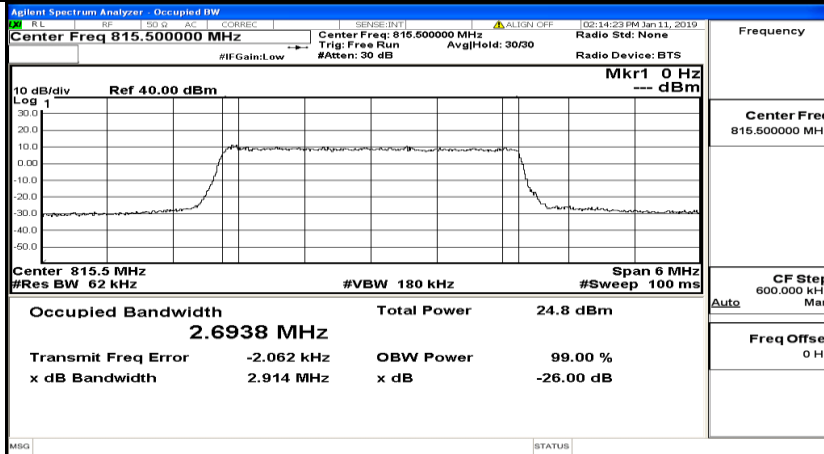
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK
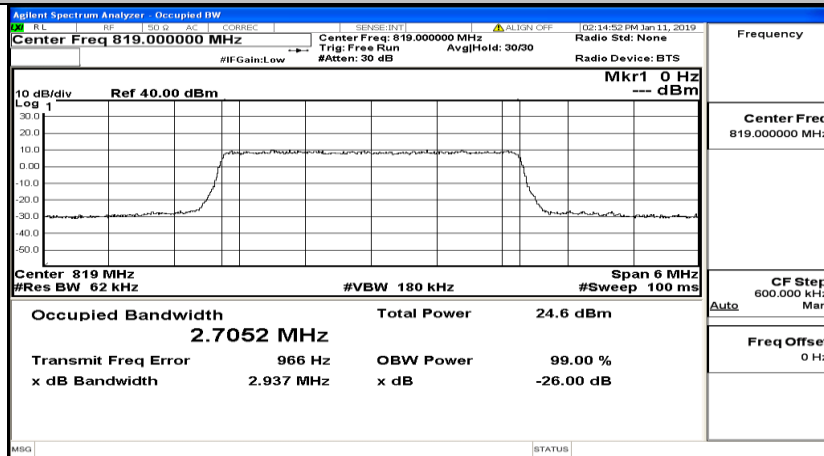
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK
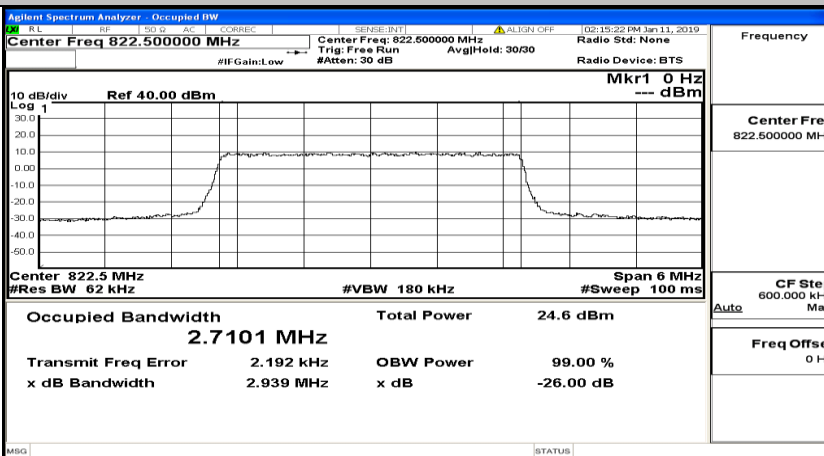
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM
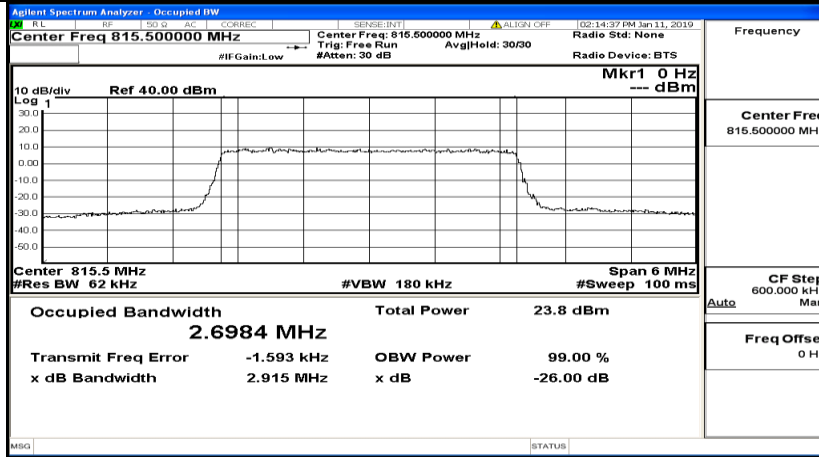
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM
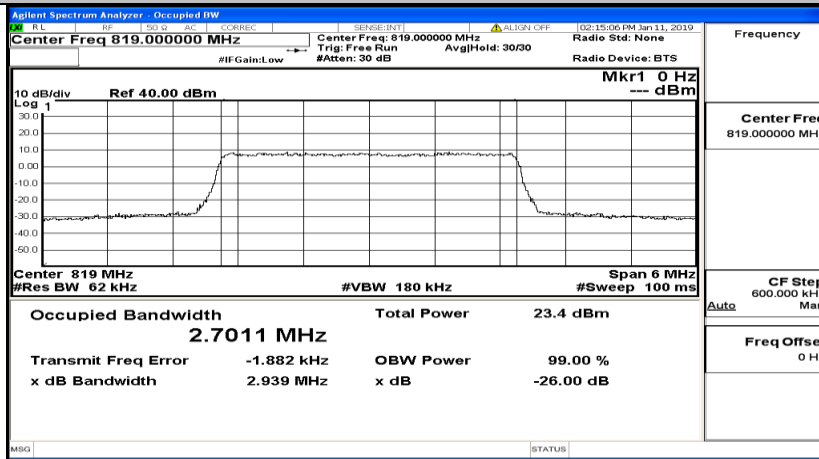
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM
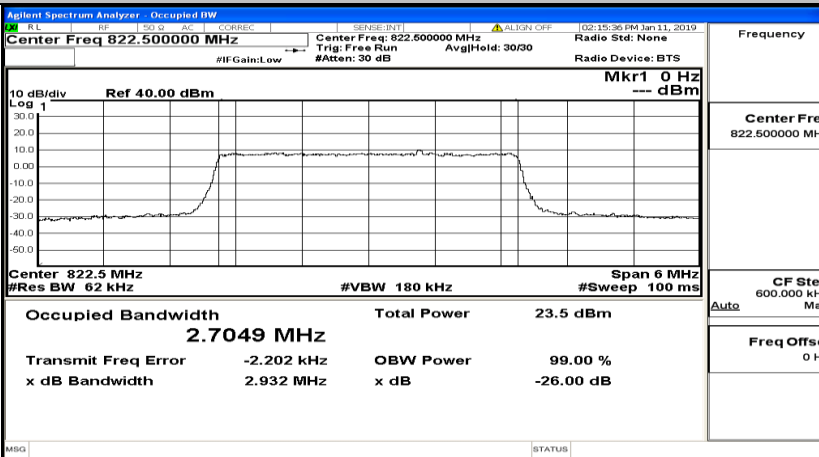
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
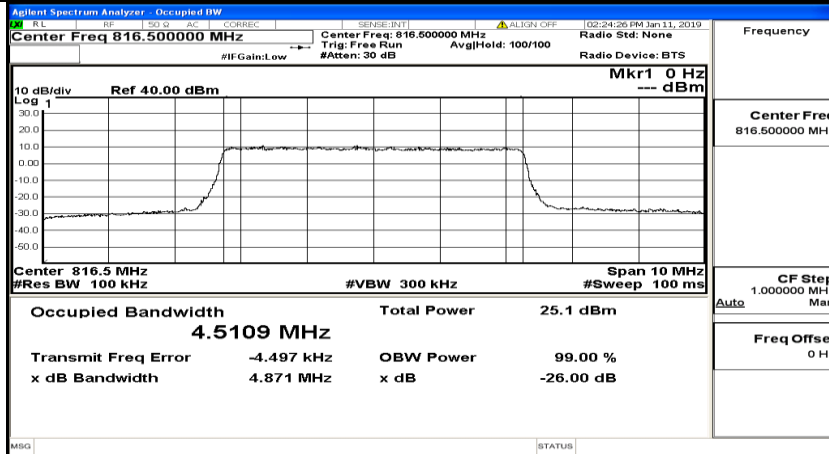
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK
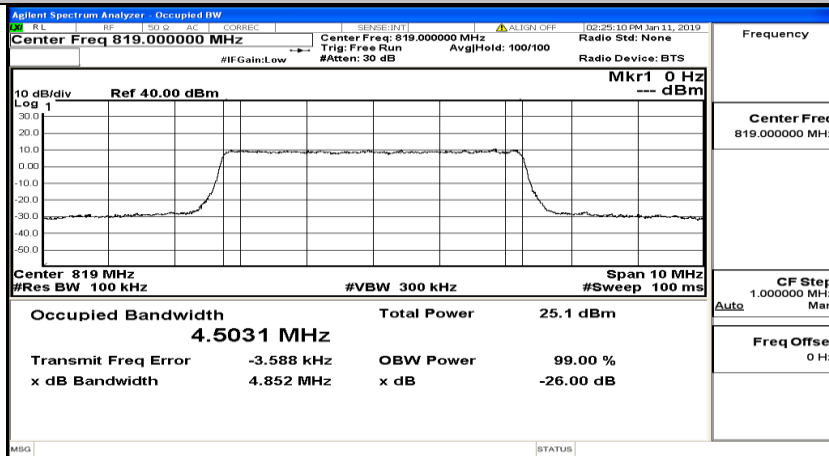
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
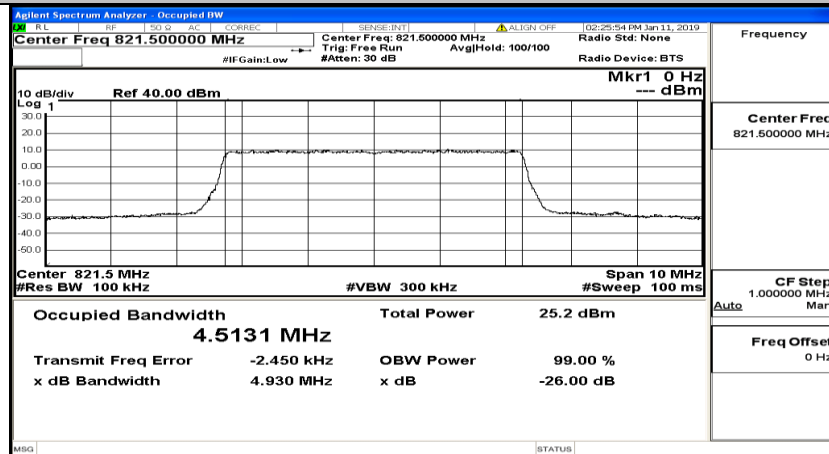
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
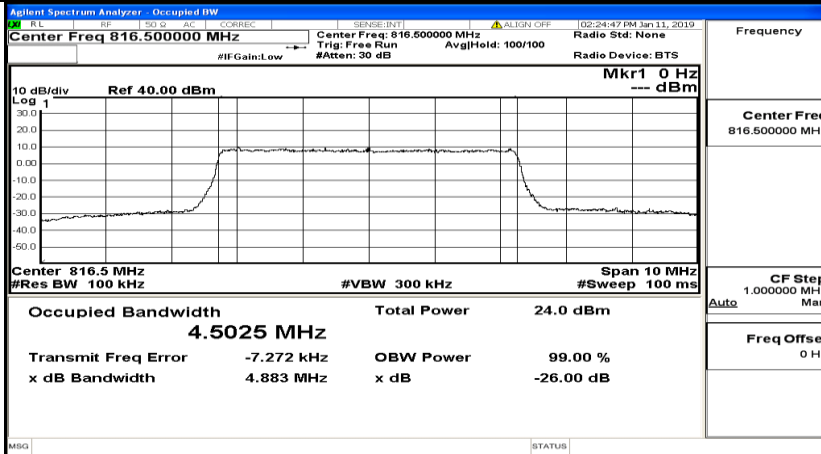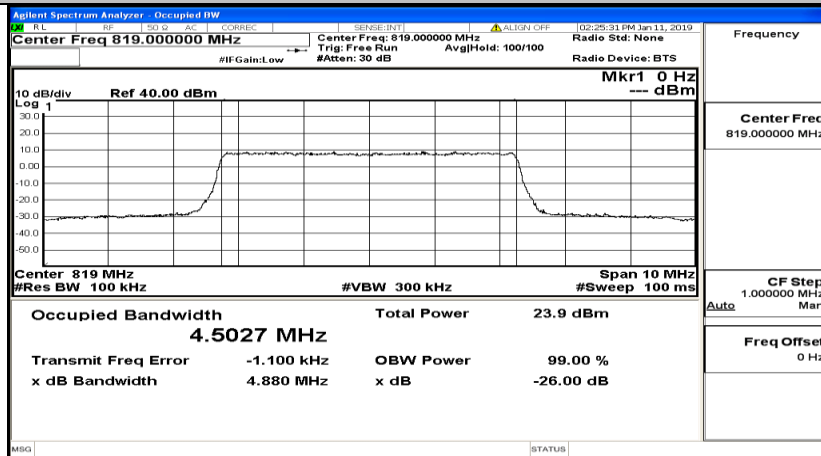
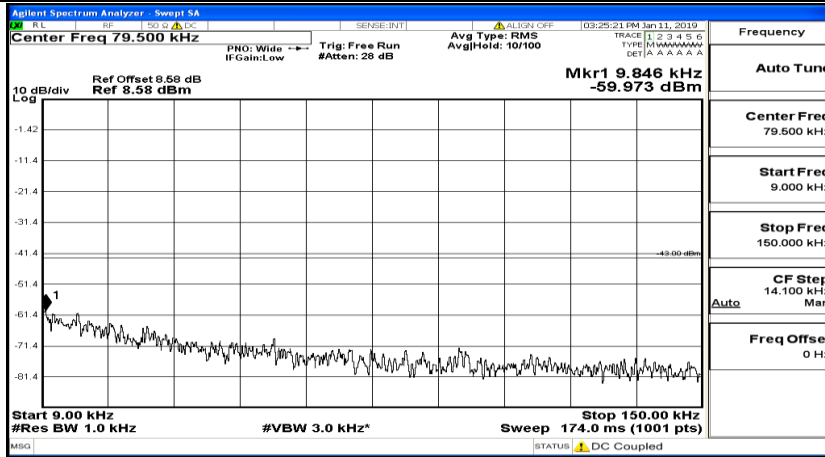| EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM |
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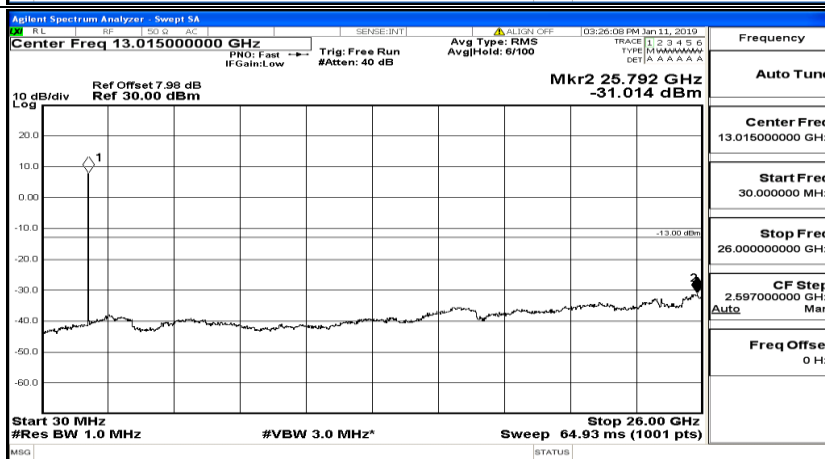| EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM |
|---|
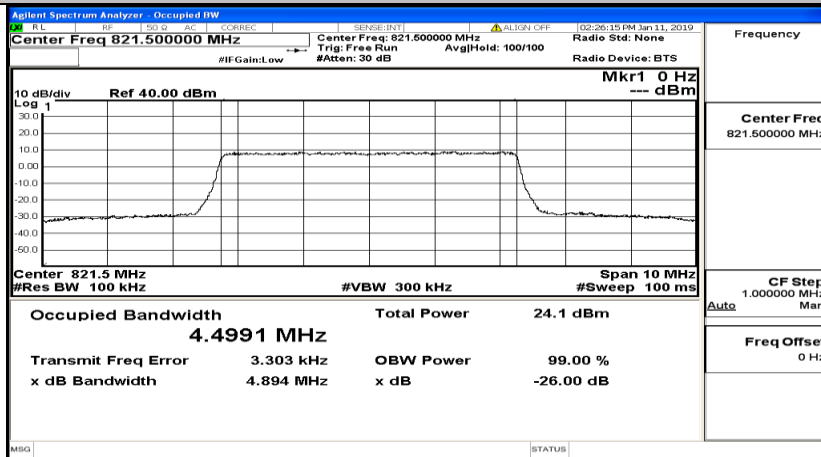
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK
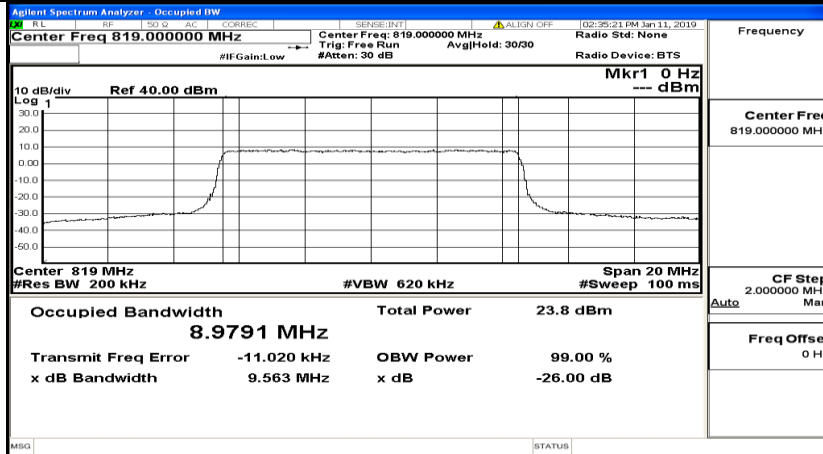
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM
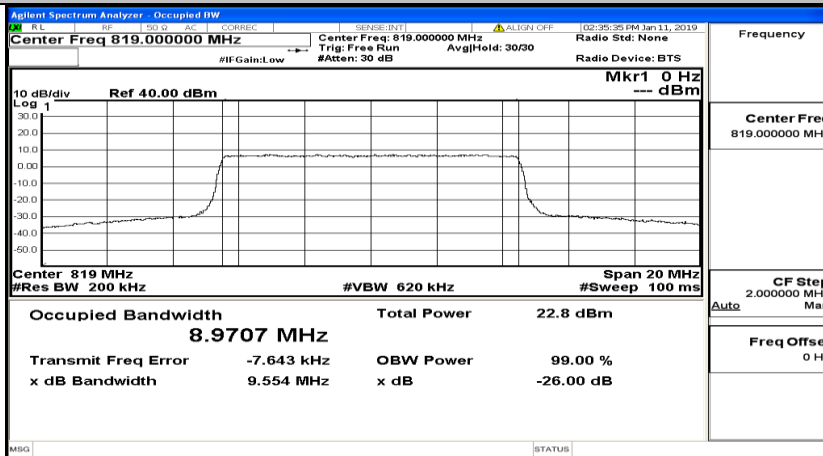
L.4 Band Edge

Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK
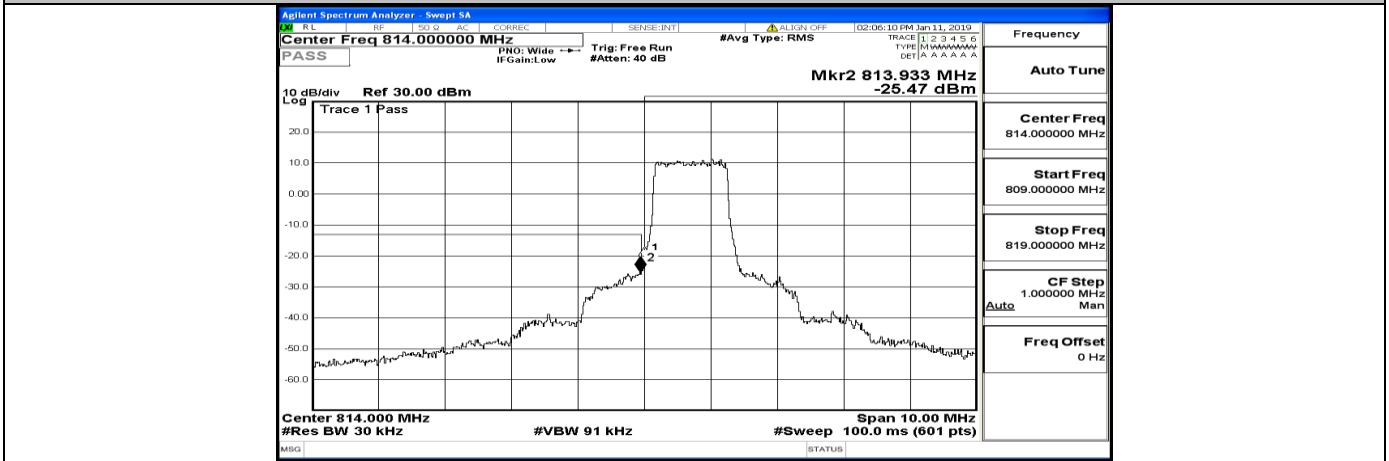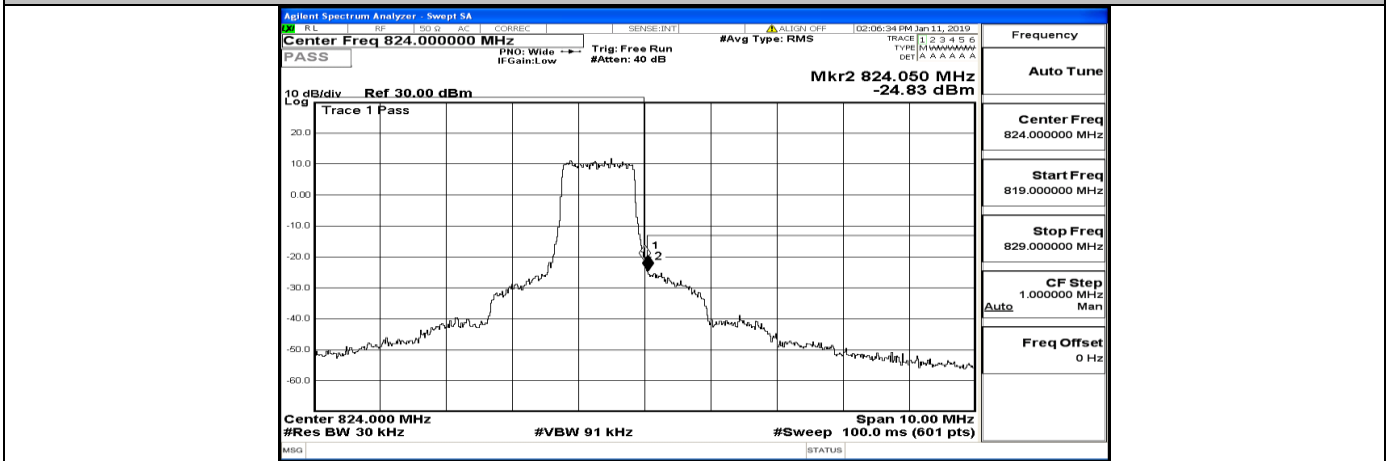
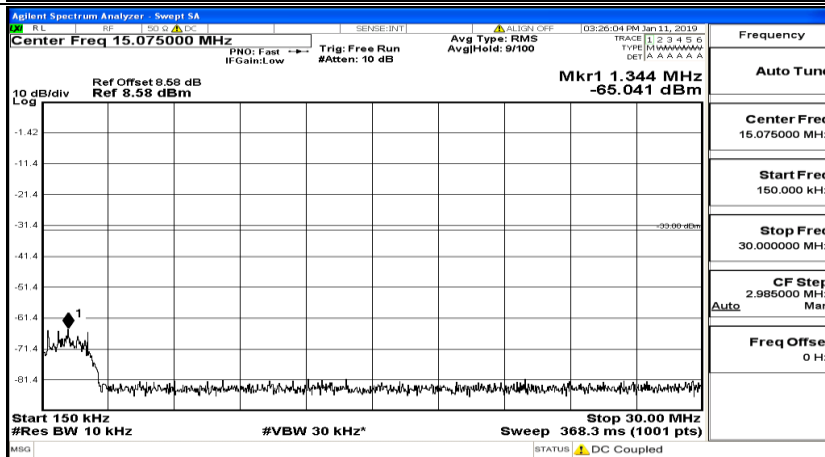| Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK |
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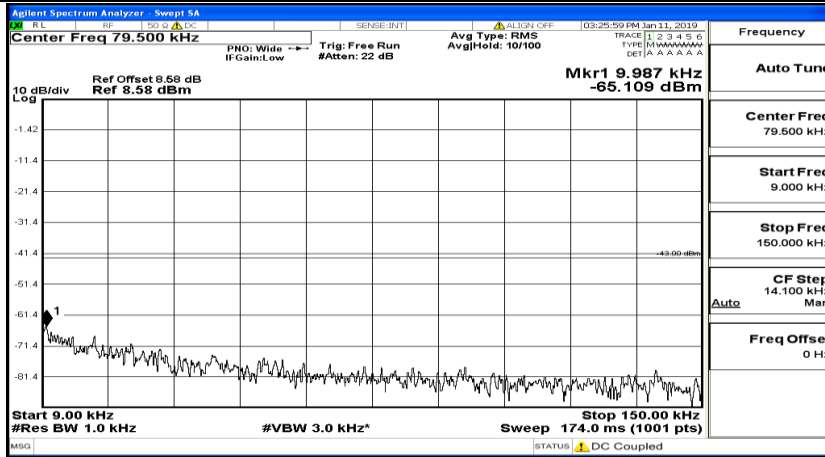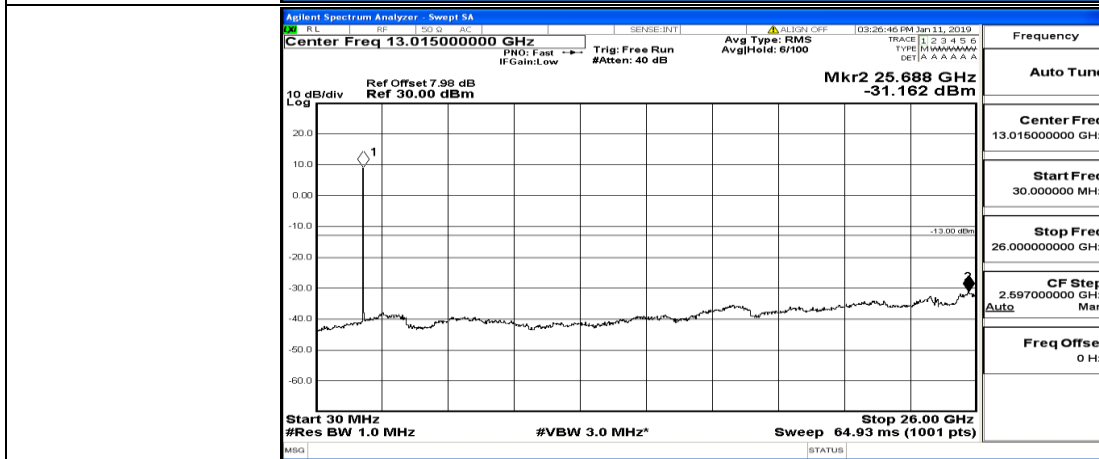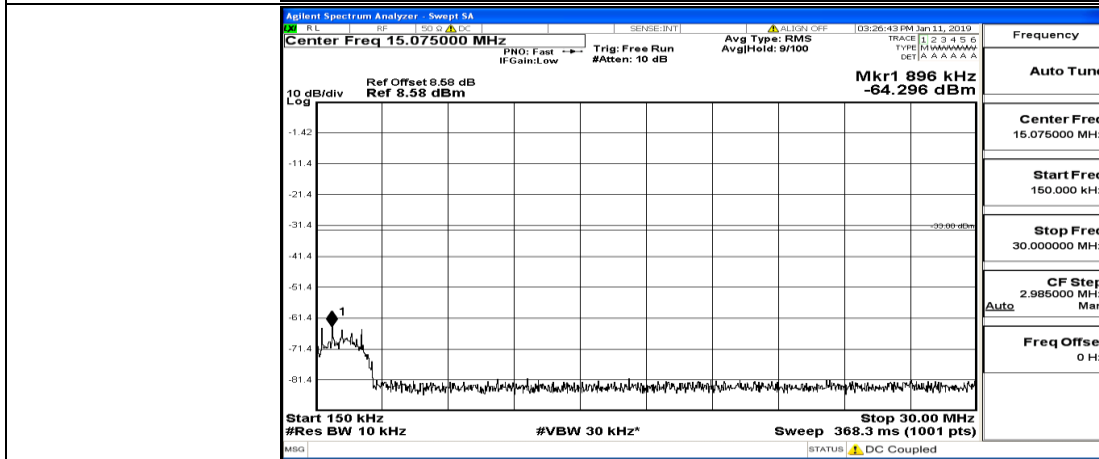| Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM |
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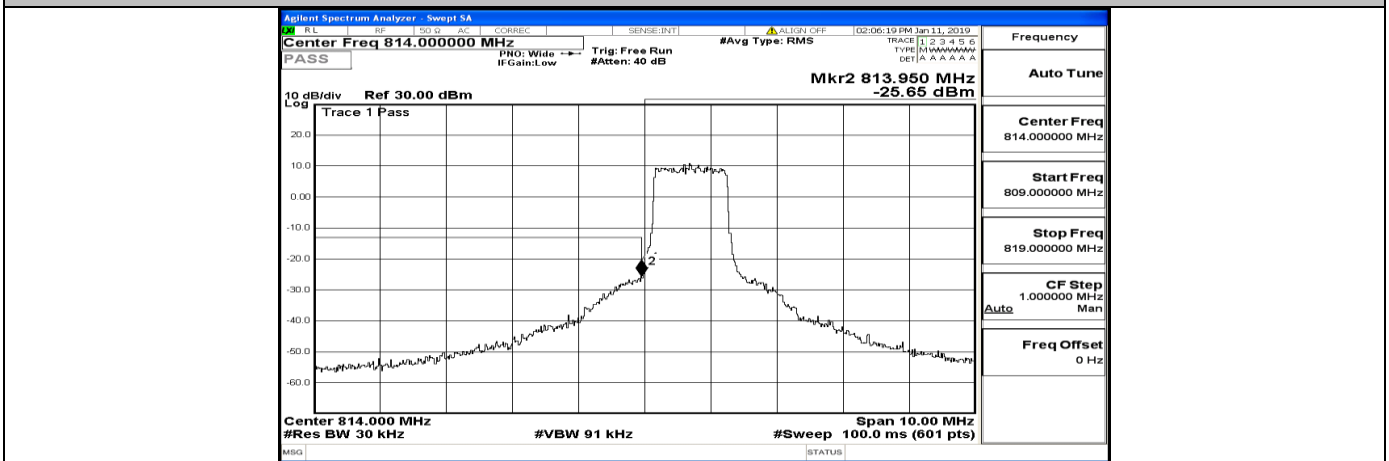
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM
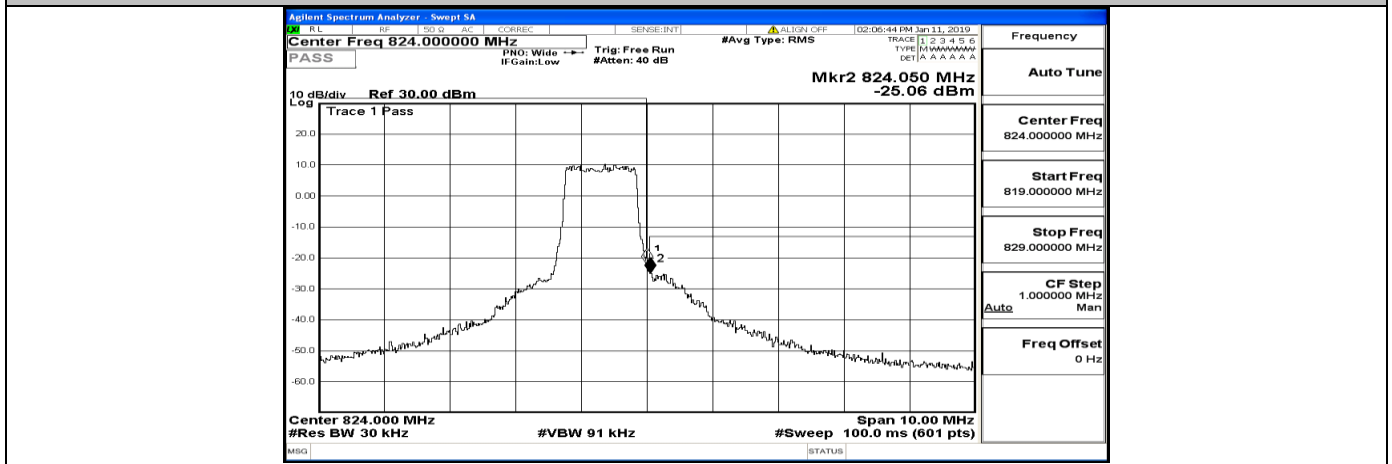
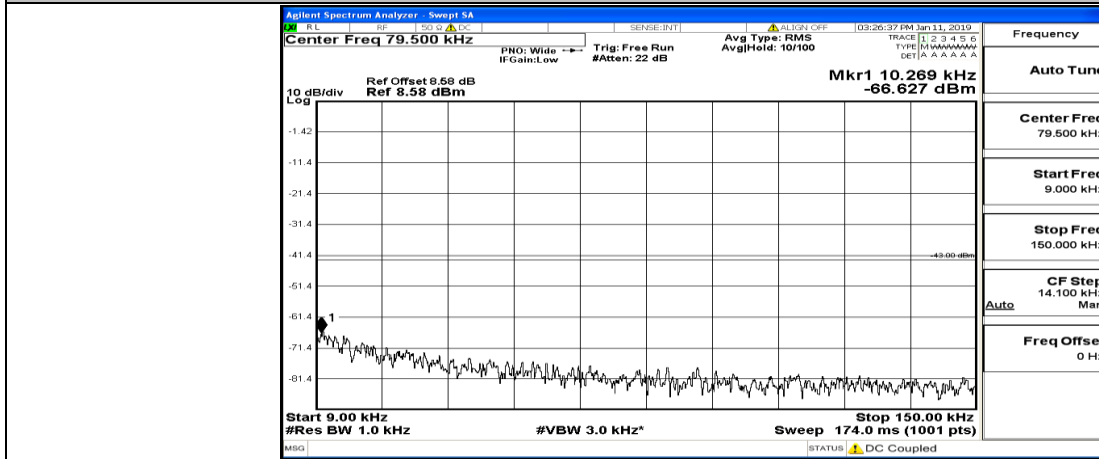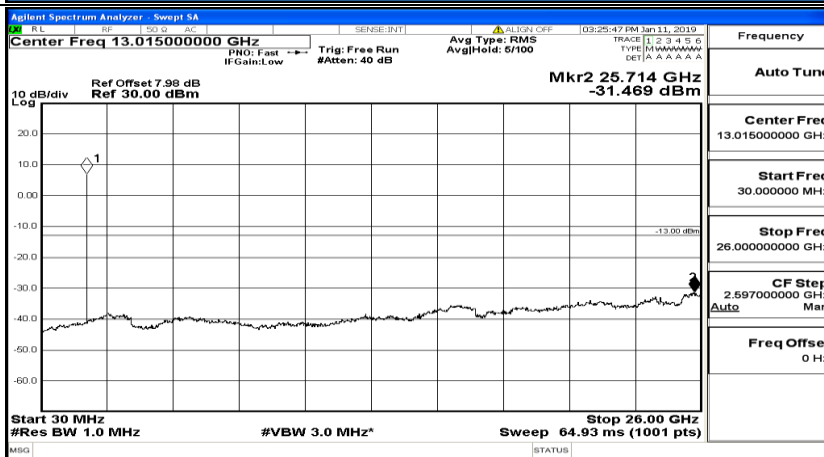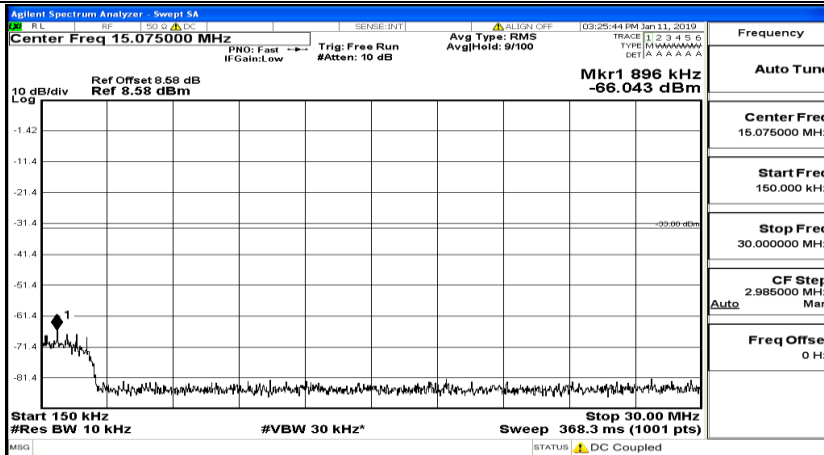Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK
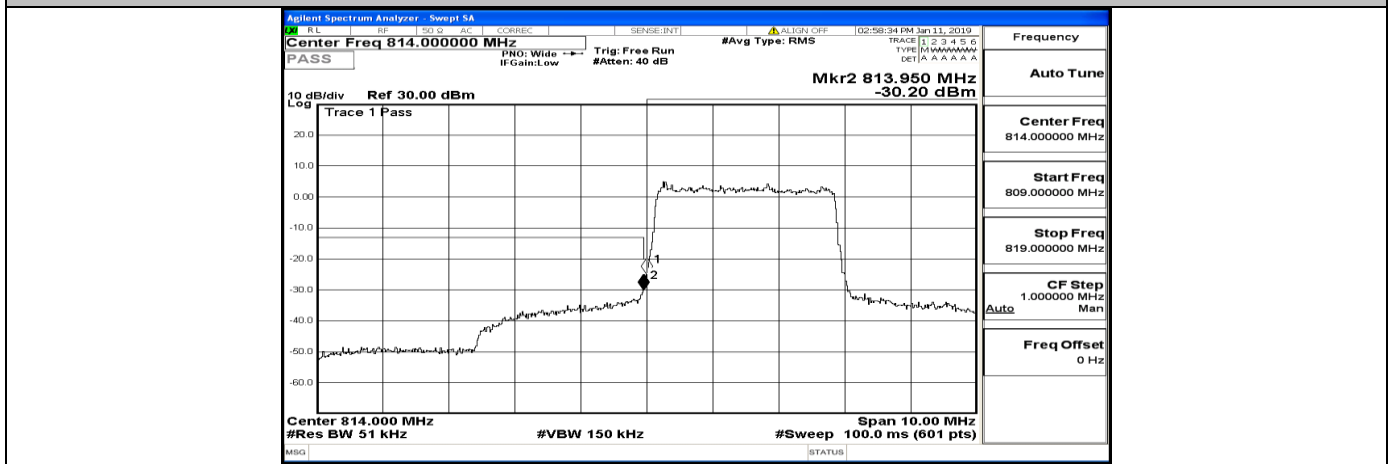
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK
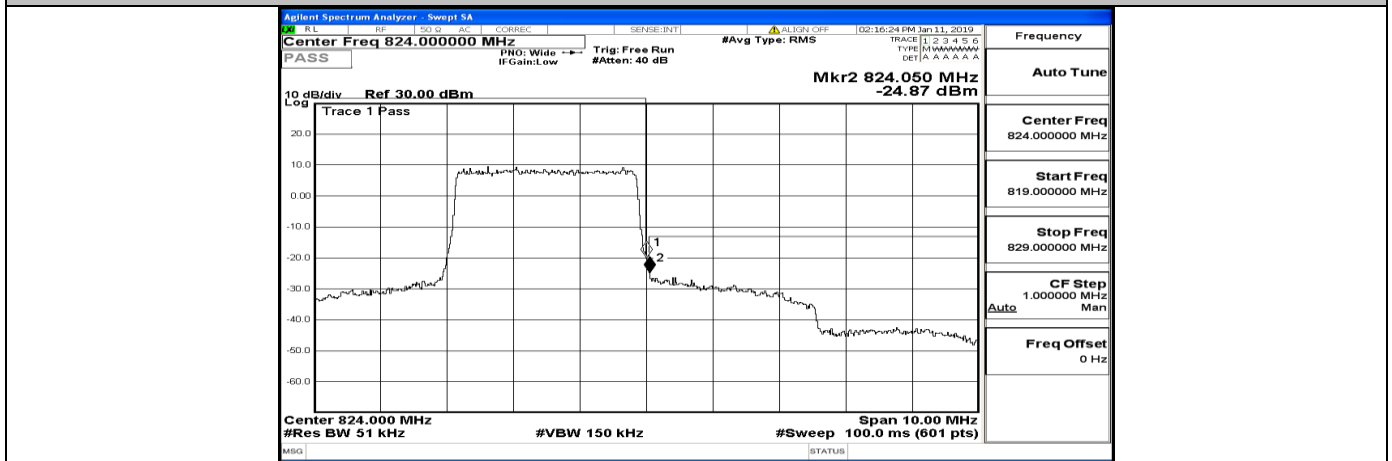
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM
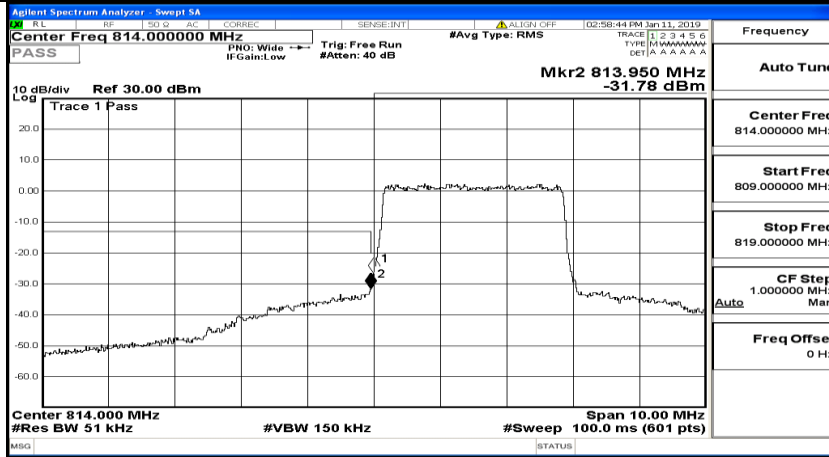
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM
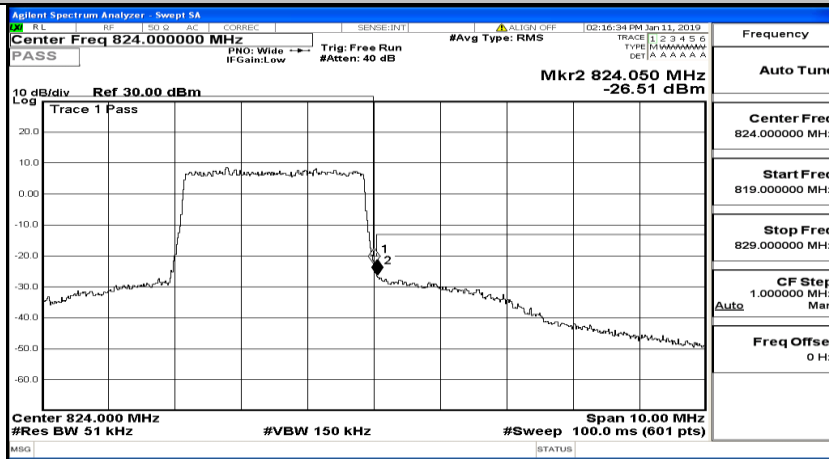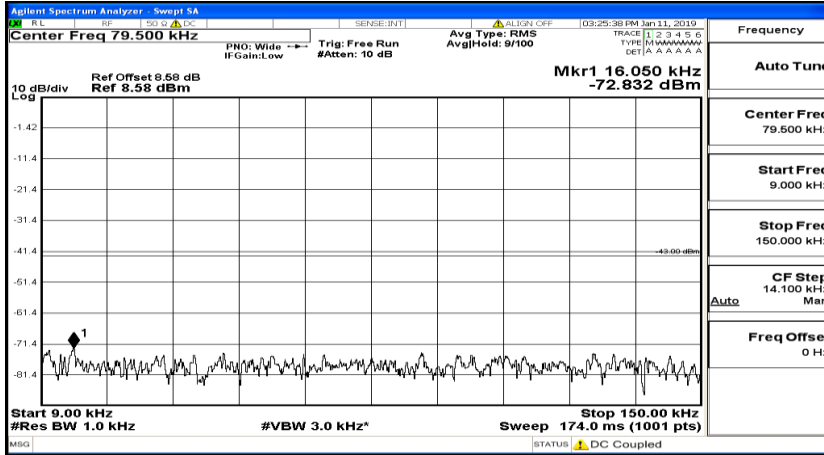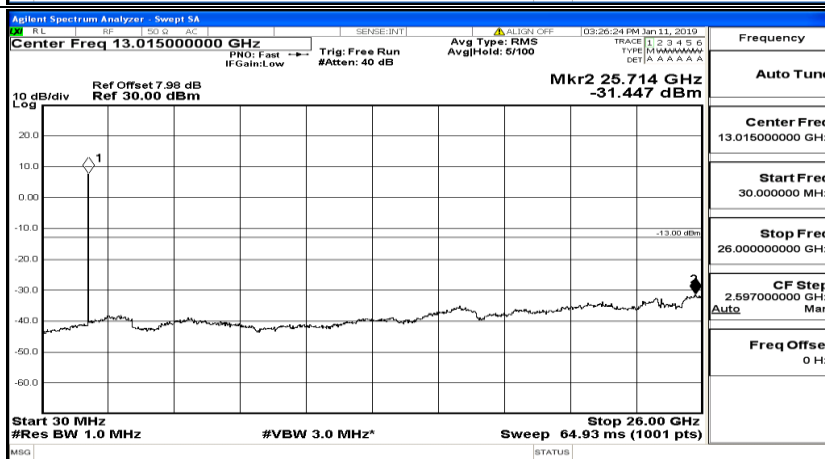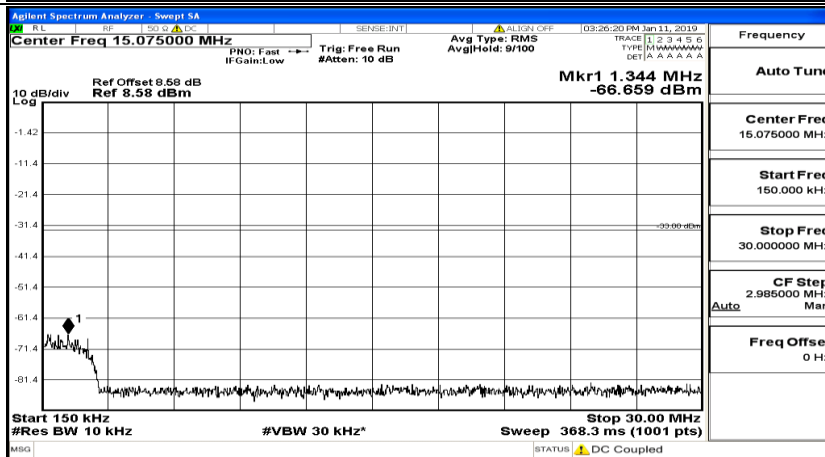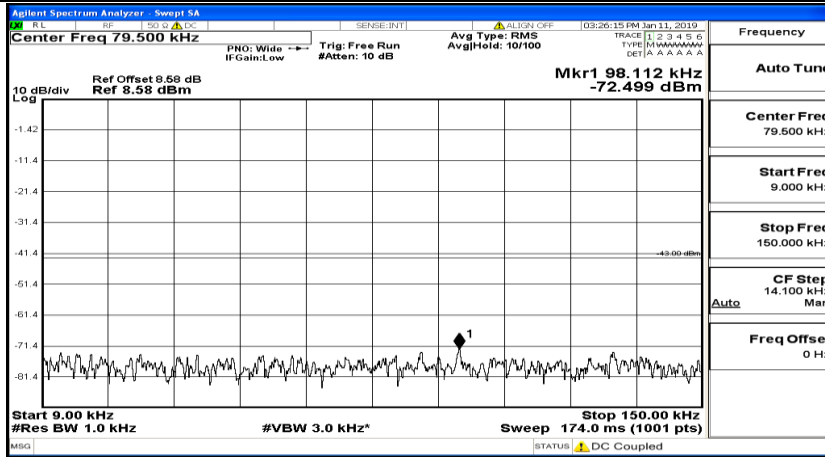

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
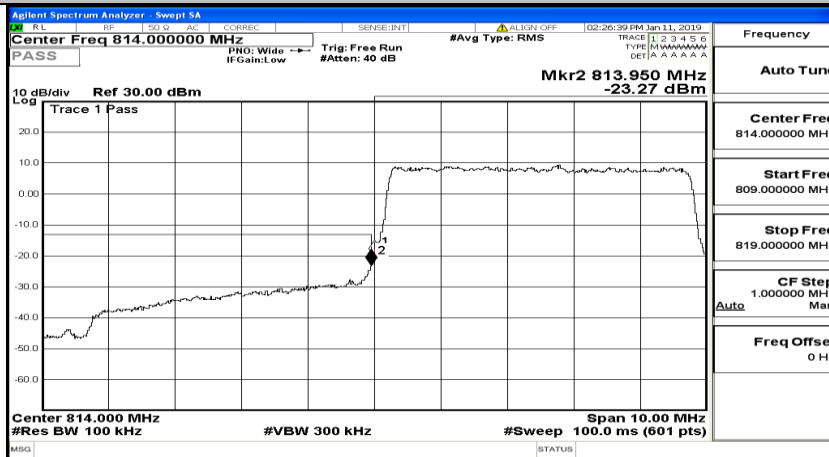
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
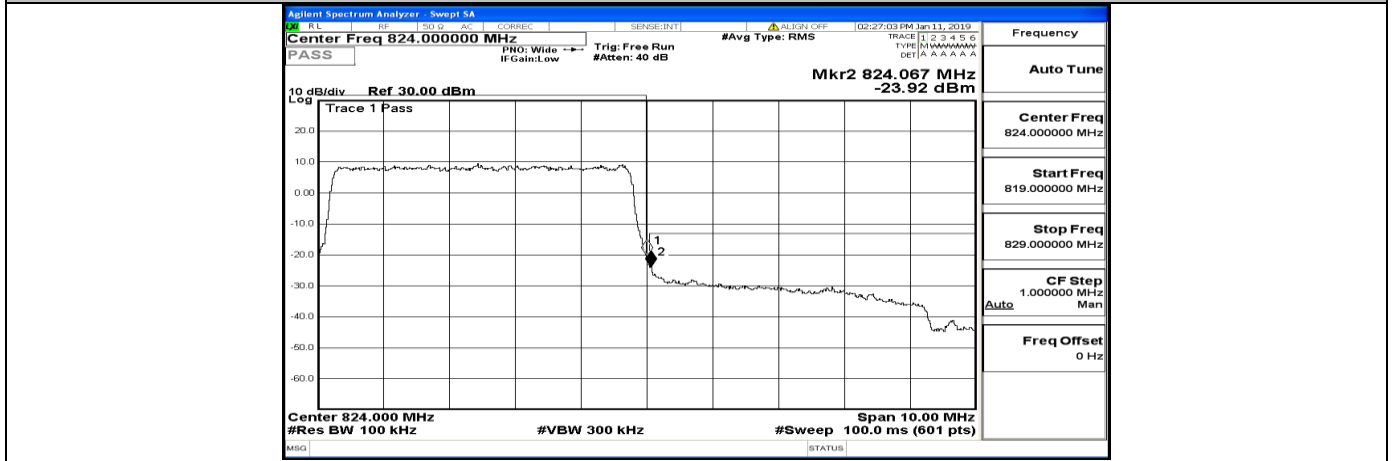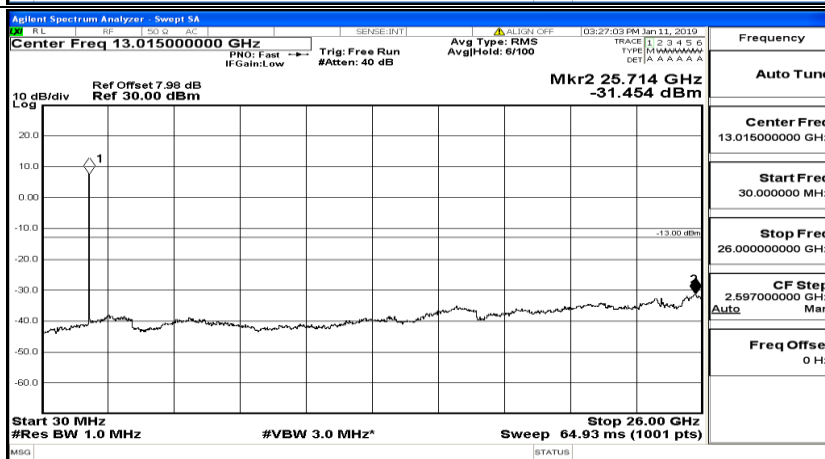

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
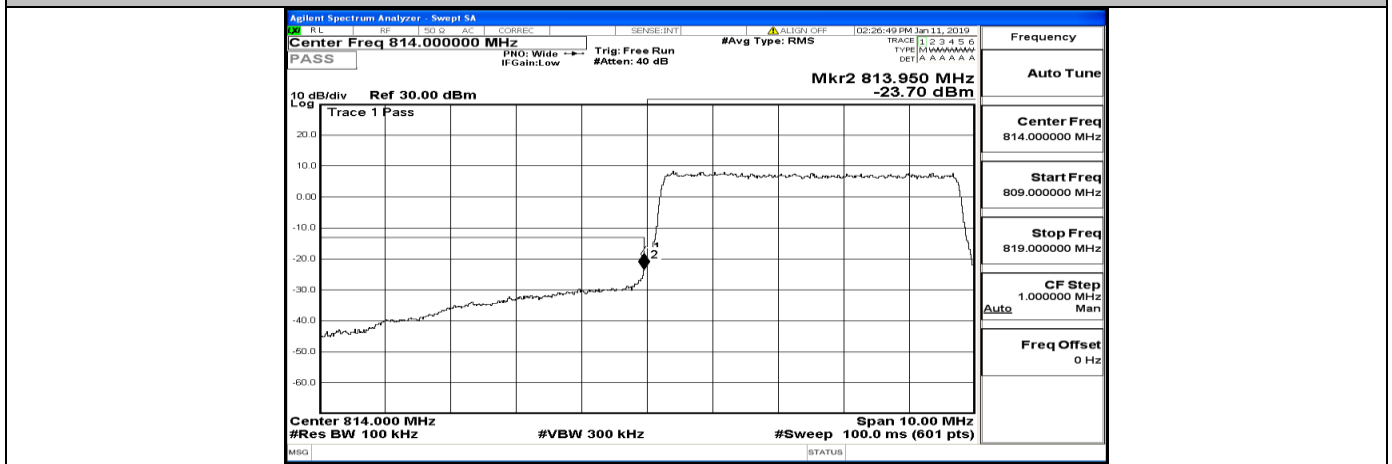
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
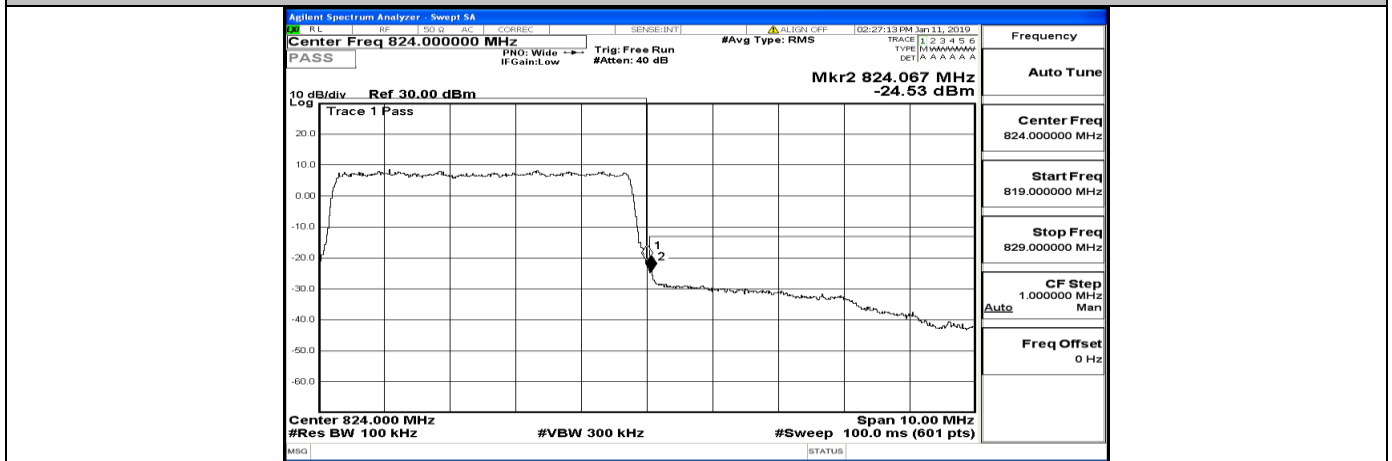
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_ QPSK
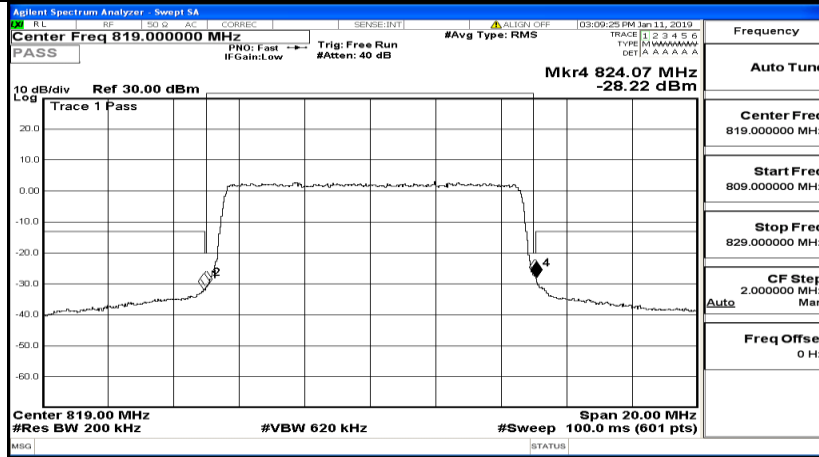
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_ 16QAM
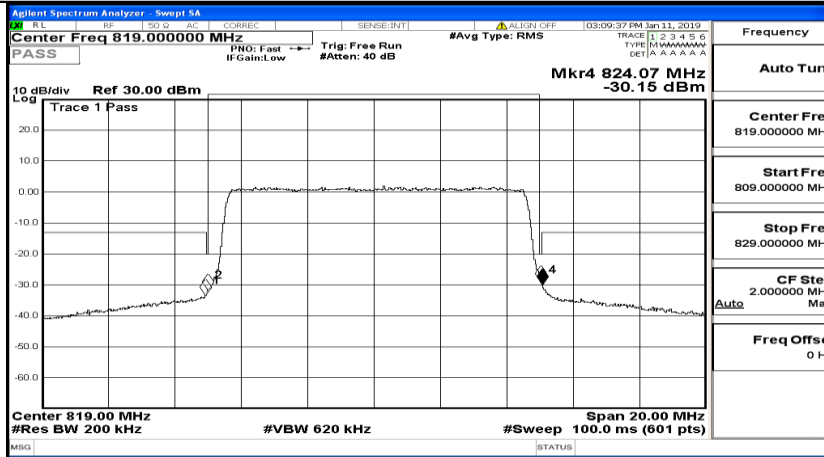
L.5 Conducted Spurious Emission

CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK

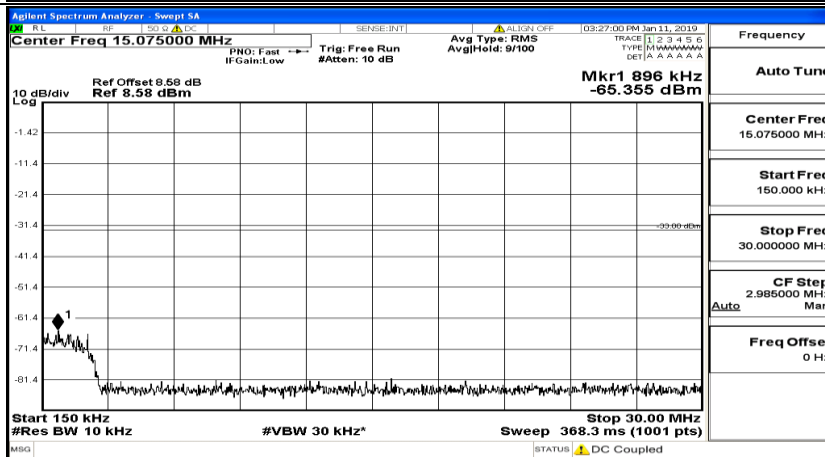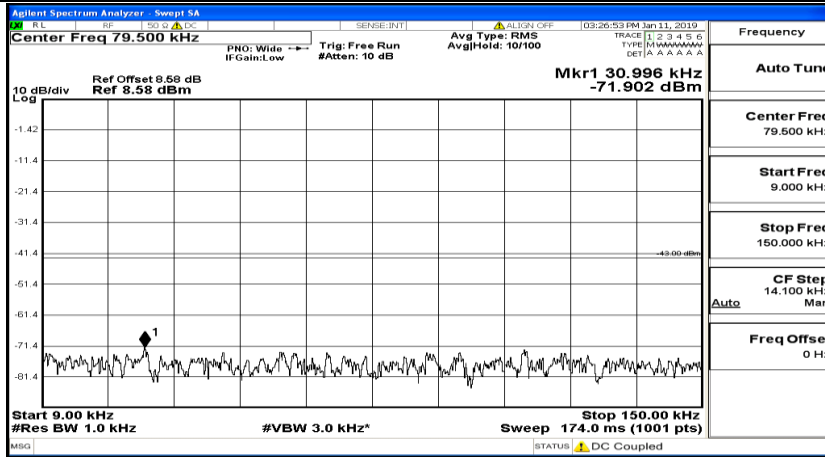| CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK |
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CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK
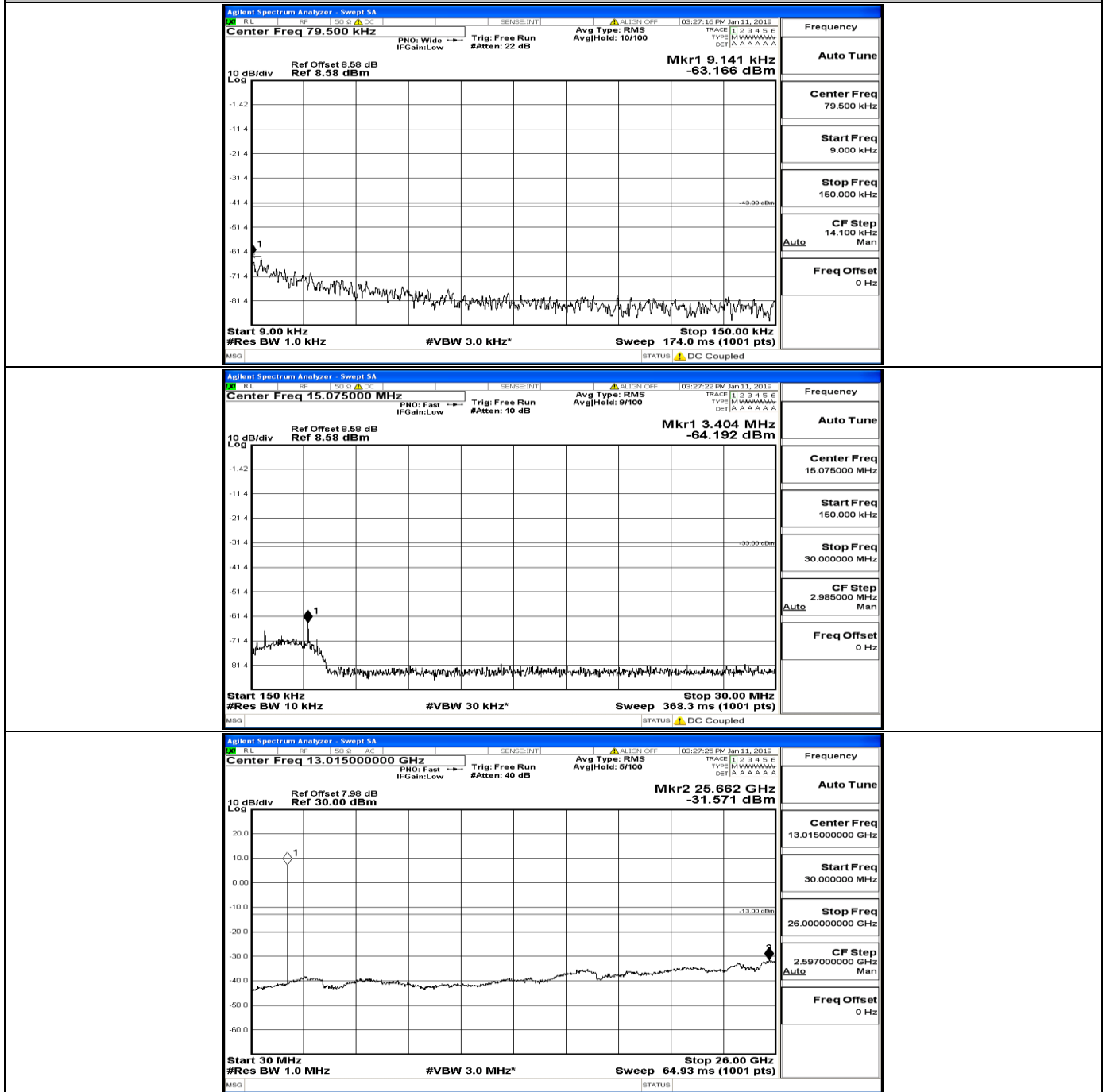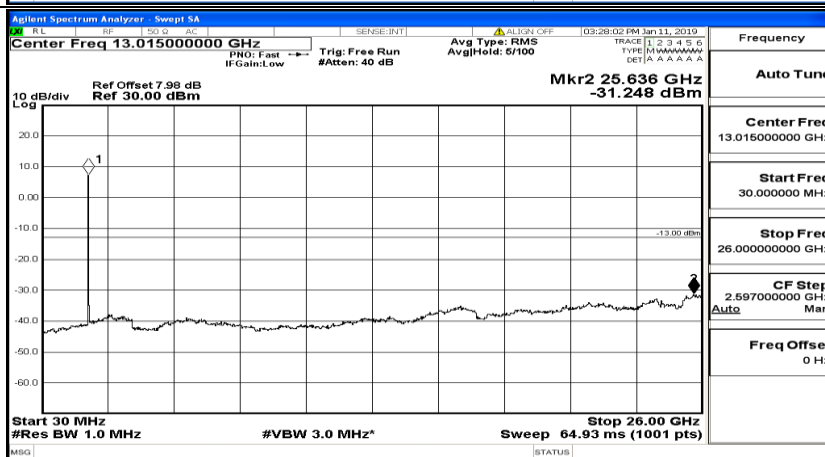
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM

CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM

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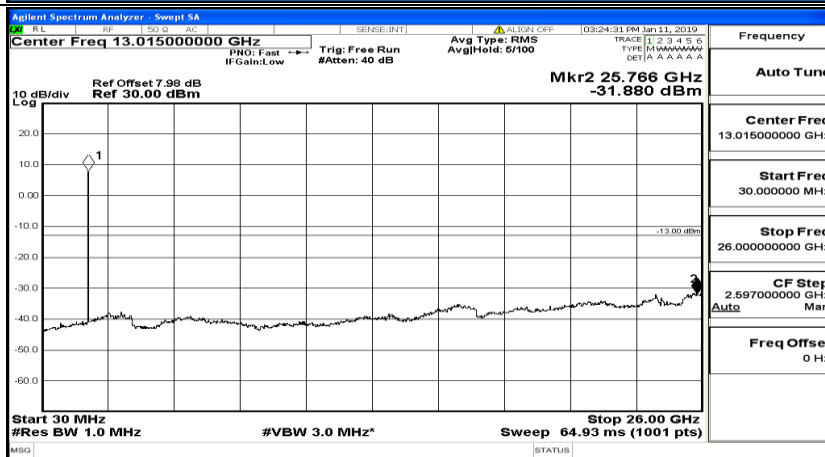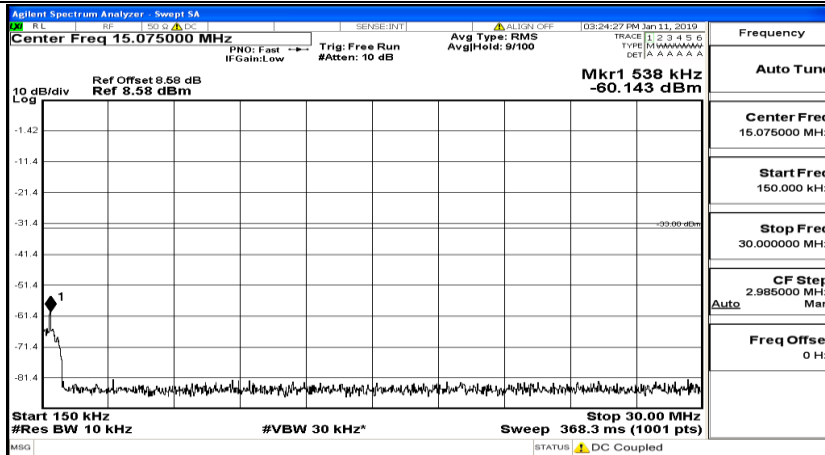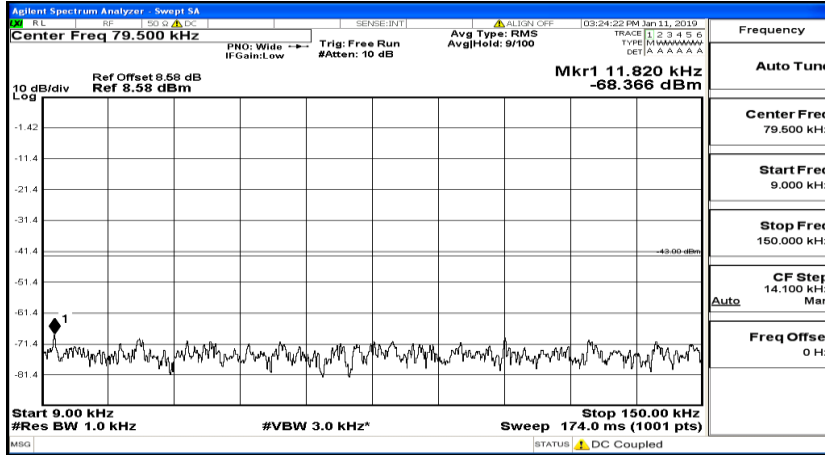
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM
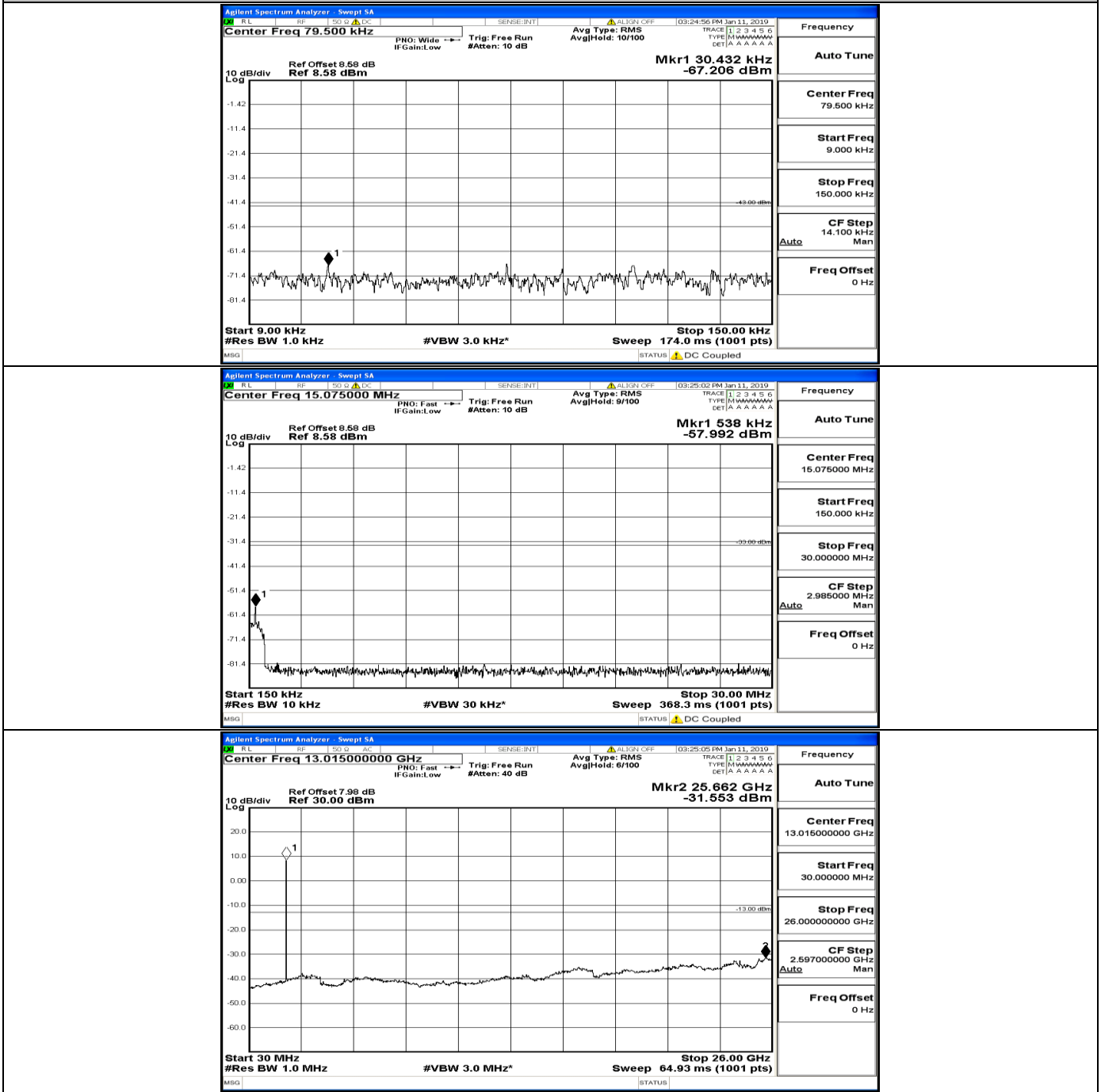
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK
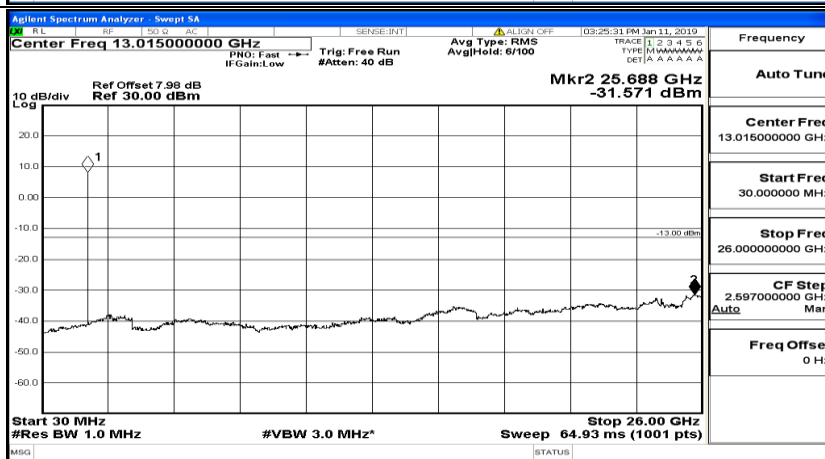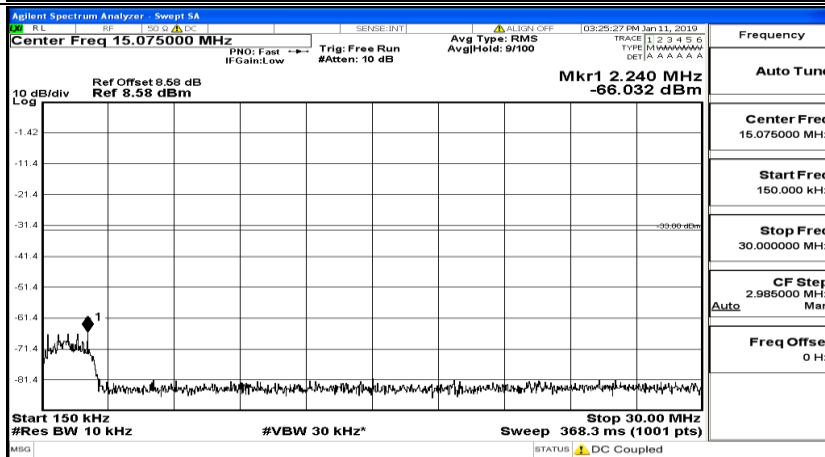
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK

CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK

CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM

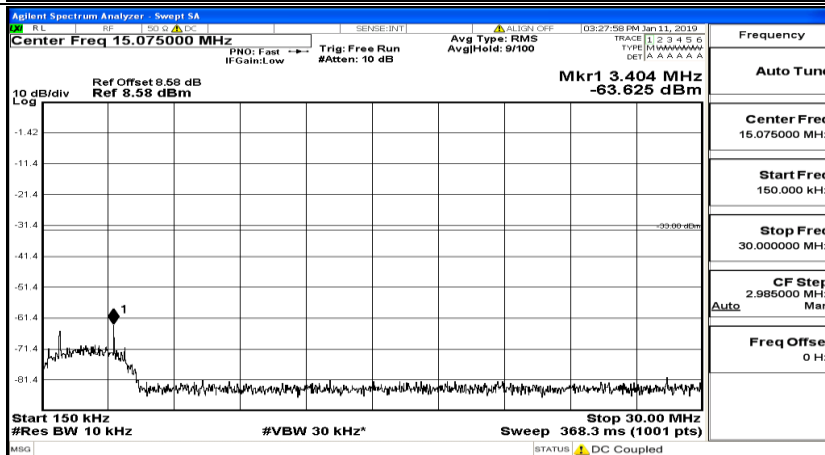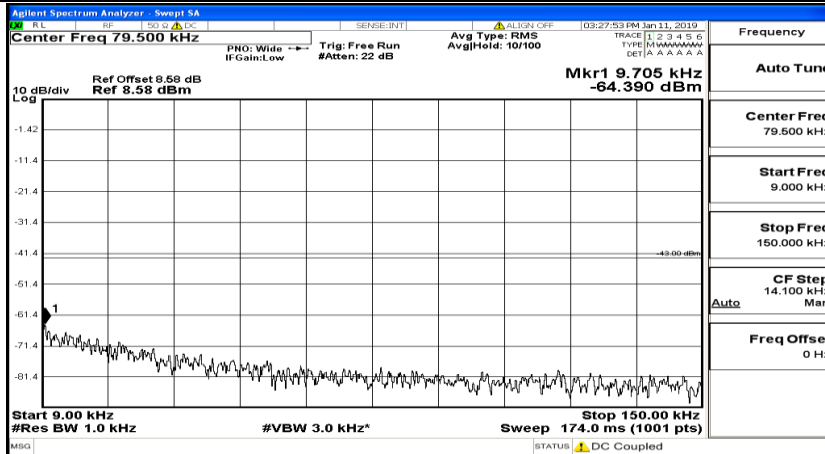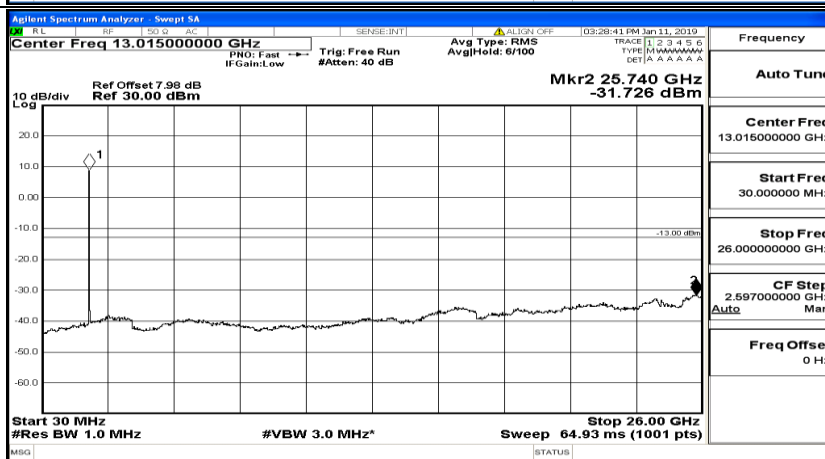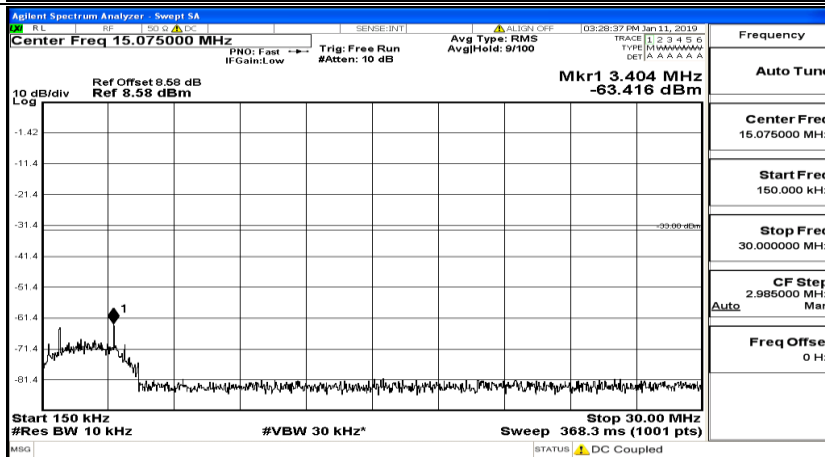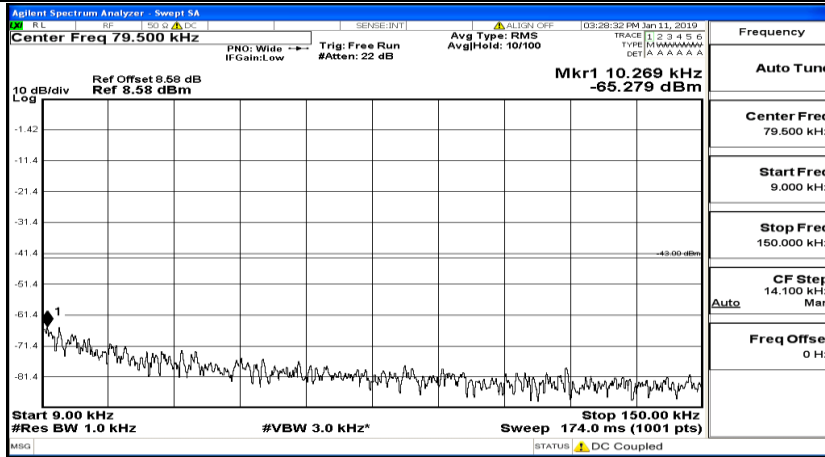| CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM |
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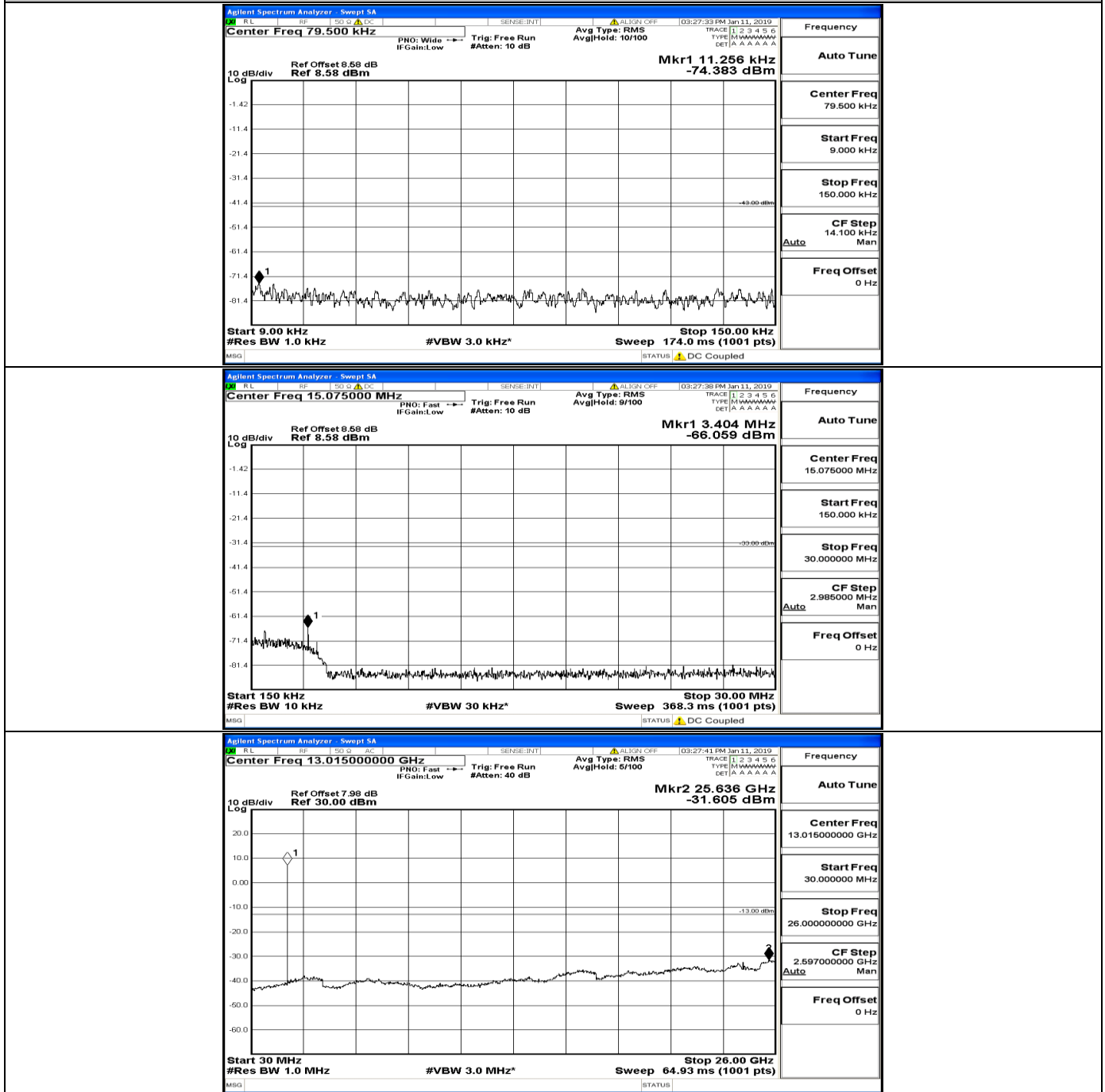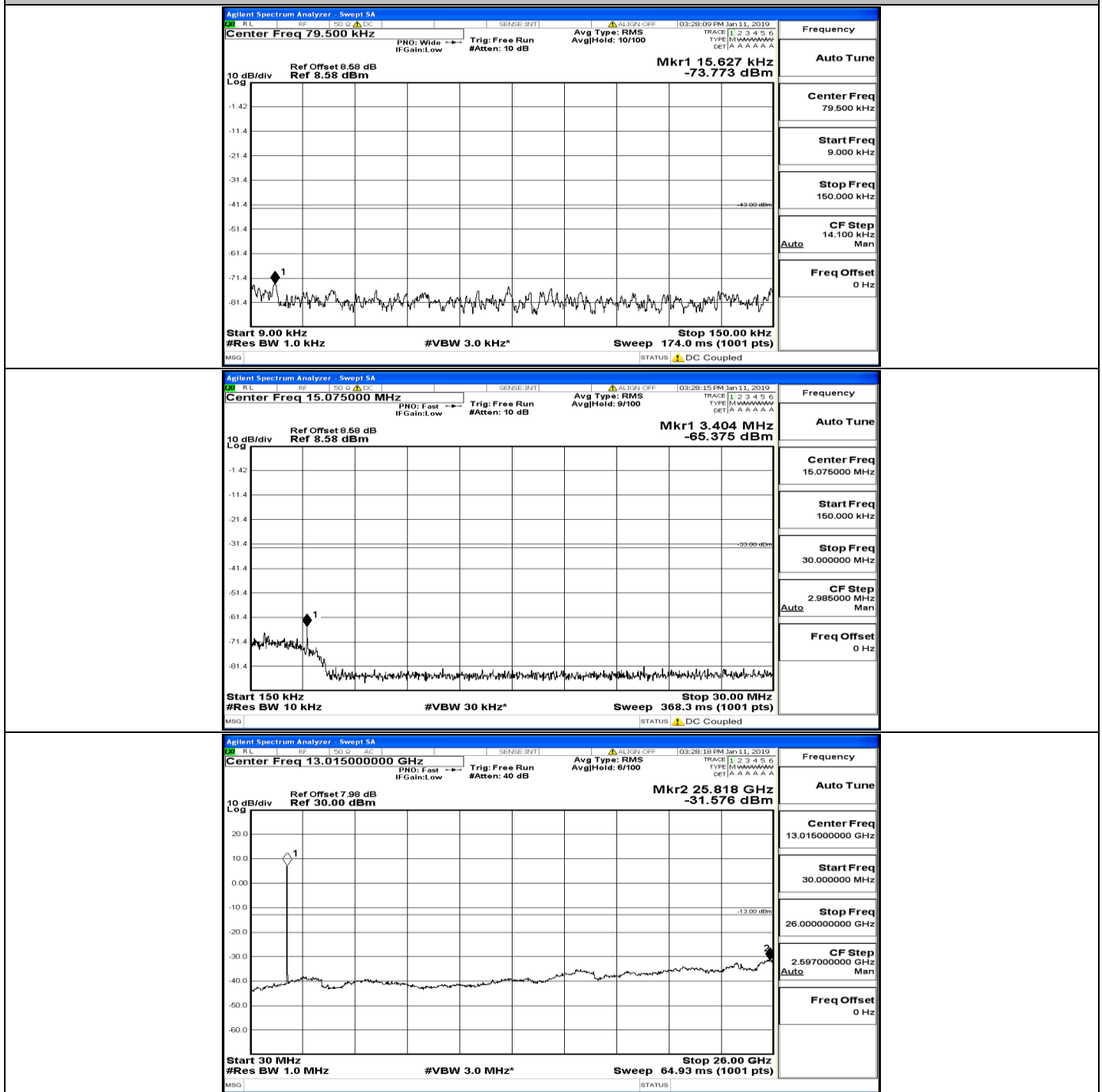| CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM |
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CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK

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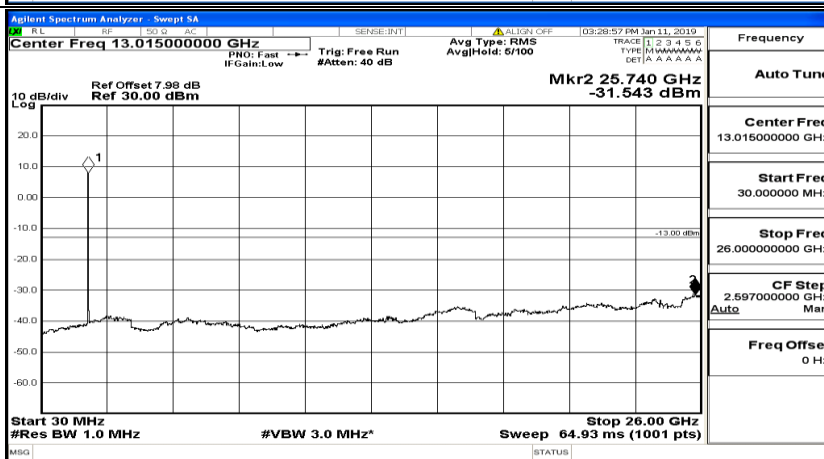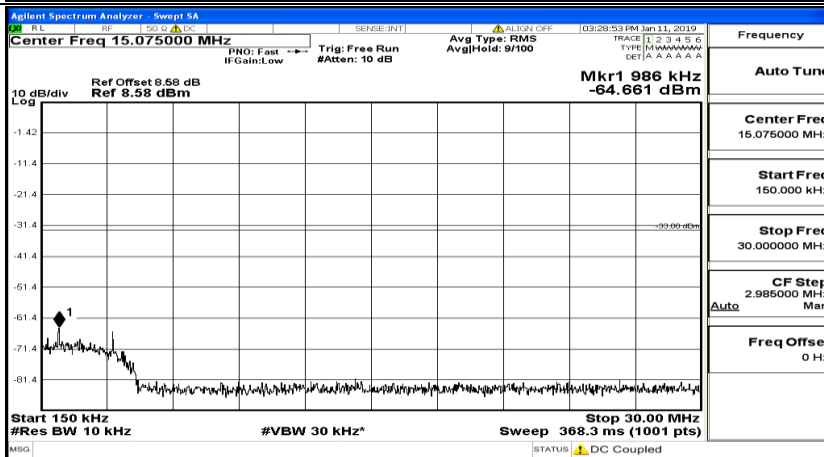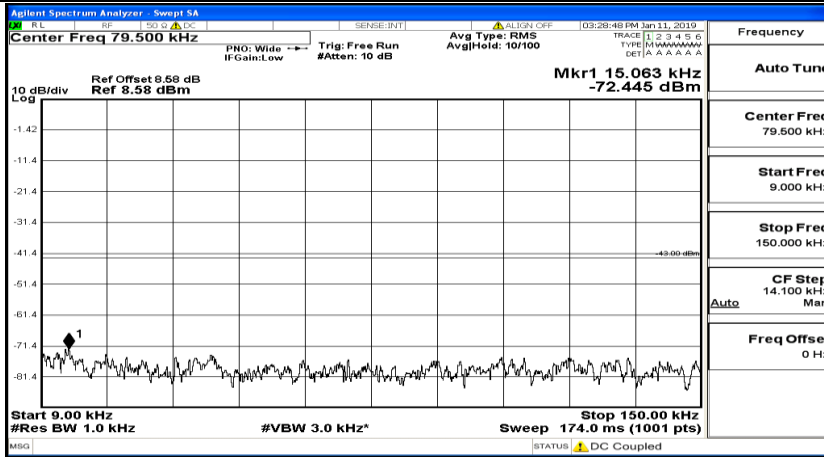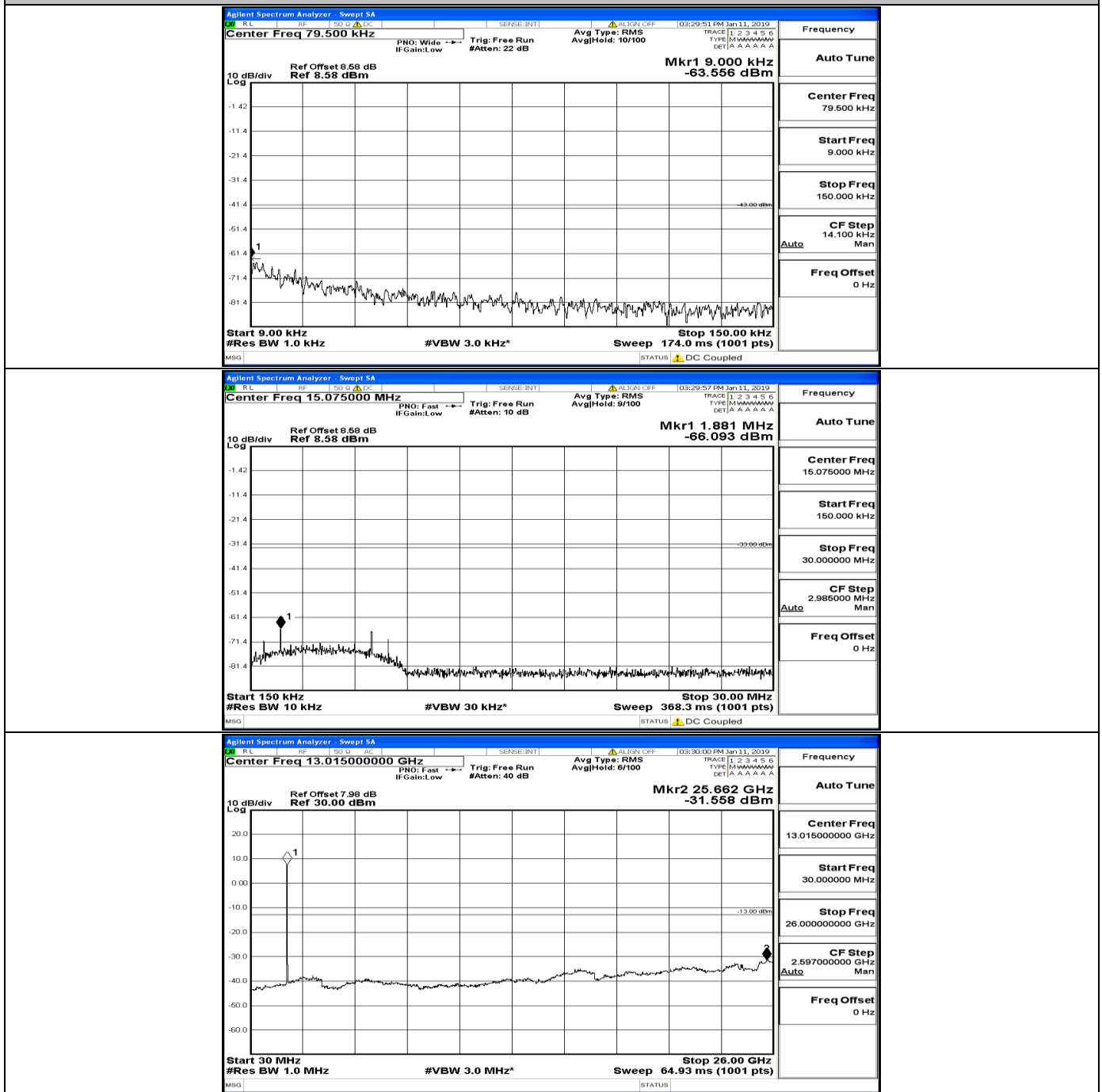## CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK

CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM