

1.Effective (Isotropic) Radiated Power Output Data

LTE Band 13				Conducted Power(dBm)			ERP (dBm)			Limit	Verdict
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel		
				23205	23230	23255	23205	23230	23205		
5MHz	QPSK	1	0	22.1	23	21.91	21.05	21.95	20.86	34.77	Pass
		1	2	22.03	23.11	21.93	20.98	22.06	20.88	34.77	Pass
		1	5	22.08	23.07	21.87	21.03	22.02	20.82	34.77	Pass
		3	0	22.03	23.01	21.89	20.98	21.96	20.84	34.77	Pass
		3	2	22.1	22.96	22	21.05	21.91	20.95	34.77	Pass
		3	3	22.08	23.04	21.94	21.03	21.99	20.89	34.77	Pass
		6	0	21.1	22.03	20.84	20.05	20.98	19.79	34.77	Pass
	16QAM	1	0	21.3	21.69	21.08	20.25	20.64	20.03	34.77	Pass
		1	2	21.3	21.58	21.11	20.25	20.53	20.06	34.77	Pass
		1	5	21.26	21.59	21	20.21	20.54	19.95	34.77	Pass
		3	0	21.37	22.01	20.79	20.32	20.96	19.74	34.77	Pass
		3	2	21.37	22.07	20.79	20.32	21.02	19.74	34.77	Pass
		3	3	21.31	22	20.75	20.26	20.95	19.7	34.77	Pass
		6	0	20.06	21.05	19.91	19.01	20	18.86	34.77	Pass
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Limit	Verdict
				N/A	23230	N/A	N/A	23230	N/A		
10MHz	QPSK	1	0	N/A	22.99	N/A	N/A	21.94	N/A	34.77	Pass
		1	2	N/A	23.09	N/A	N/A	22.04	N/A	34.77	Pass
		1	5	N/A	23.06	N/A	N/A	22.01	N/A	34.77	Pass
		3	0	N/A	23.03	N/A	N/A	21.98	N/A	34.77	Pass
		3	2	N/A	23.02	N/A	N/A	21.97	N/A	34.77	Pass
		3	3	N/A	23.01	N/A	N/A	21.96	N/A	34.77	Pass
		6	0	N/A	22.02	N/A	N/A	20.97	N/A	34.77	Pass
	16QAM	1	0	N/A	22.08	N/A	N/A	21.03	N/A	34.77	Pass
		1	2	N/A	22.01	N/A	N/A	20.96	N/A	34.77	Pass
		1	5	N/A	22.09	N/A	N/A	21.04	N/A	34.77	Pass
		3	0	N/A	22.07	N/A	N/A	21.02	N/A	34.77	Pass
		3	2	N/A	22.05	N/A	N/A	21	N/A	34.77	Pass
		3	3	N/A	22.06	N/A	N/A	21.01	N/A	34.77	Pass
		6	0	N/A	21.05	N/A	N/A	20	N/A	34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15
 Antenna Gain: 1.1dBi

2. Peak-Average Ratio& Bandwidth& Band Edge Compliance& Band Edge Compliance

2.1 99% & 26dB Bandwidth

Test Band: 13 _ 5MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.0862	1.0792	1.0790	N/A	PASS
16QAM	6	0	0.91210	0.91040	1.0788	N/A	PASS

Test Band: 13 _ 5MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.262	1.238	1.238	N/A	PASS
16QAM	6	0	1.088	1.087	1.237	N/A	PASS

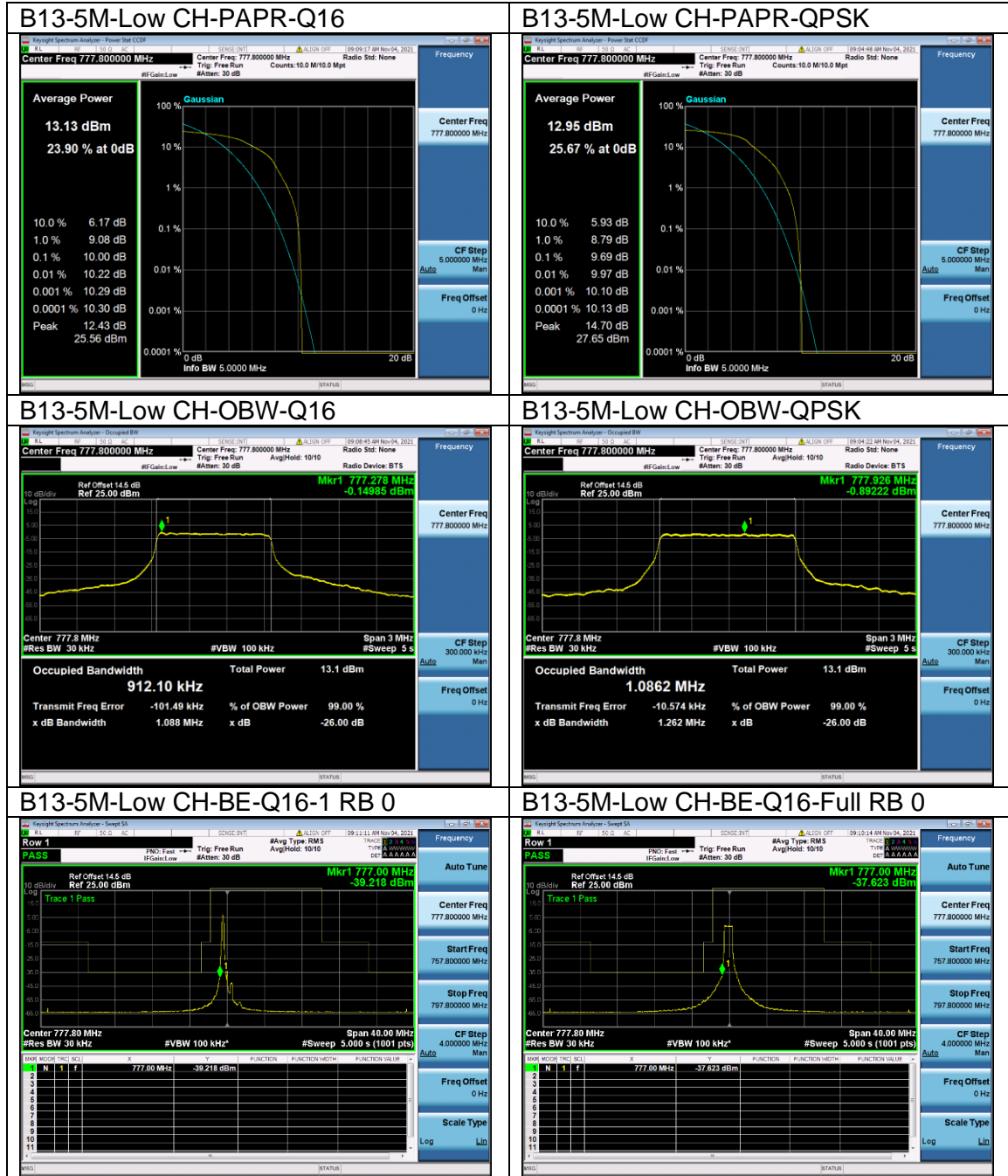
Test Band: 13 _ 10MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	MCH				
QPSK	6	0	1.0858			N/A	PASS
16QAM	6	0	0.90922			N/A	PASS

Test Band: 13 _ 10MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	MCH				
QPSK	6	0	1.256			N/A	PASS
16QAM	6	0	1.100			N/A	PASS

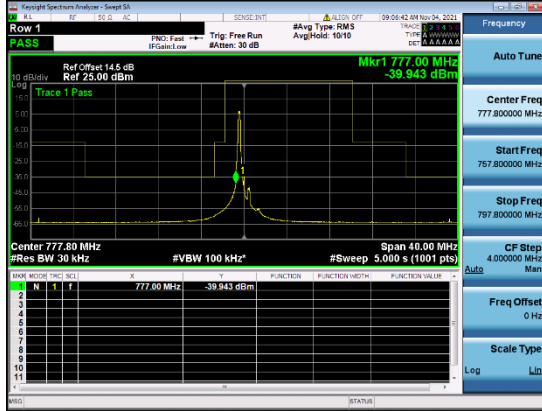
2.2 Peak-Average Ratio

Test Band: 13 _ 5MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	9.69	9.68	9.66	13	PASS
16QAM	6	0	10.00	9.94	9.55	13	PASS

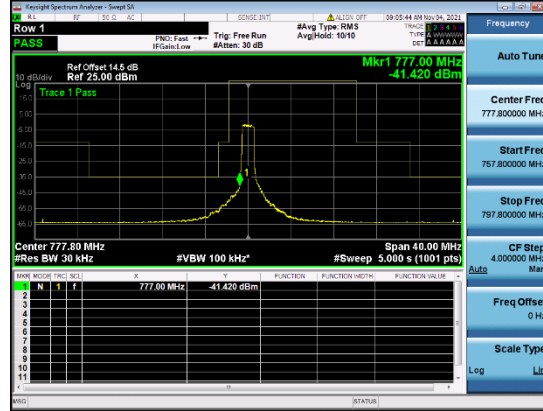
Test Band: 13 _ 10MHz Bandwidth						
Test Mode	RB Allocation		Test result (dB)		Limit (dB)	Verdict
	Size	Offset	MCH			
QPSK	6	0	9.60		13	PASS
16QAM	6	0	9.55		13	PASS



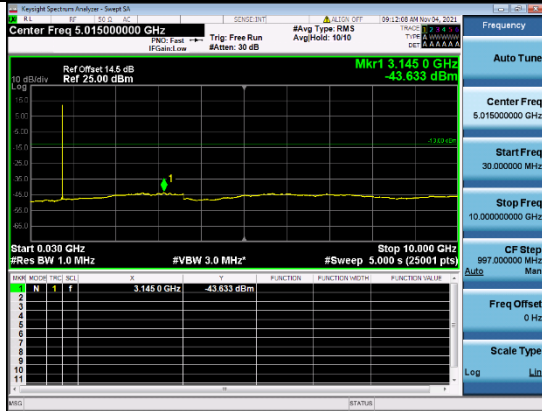
B13-5M-Low CH-BE-QPSK-1 RB 0



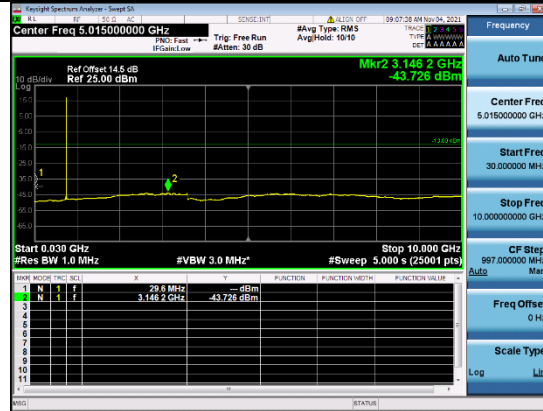
B13-5M-Low CH-BE-QPSK-Full RB 0



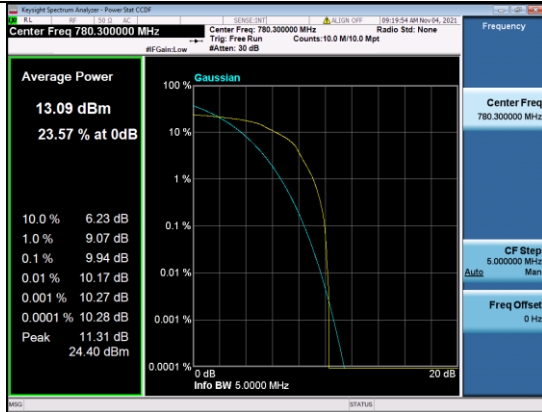
B13-5M-Low CH-CSE-1-Q16-1 RB 0



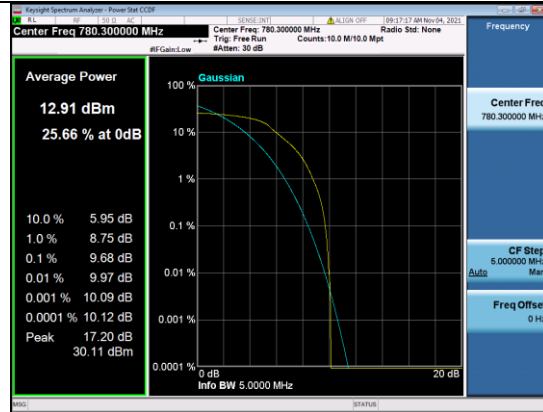
B13-5M-Low CH-CSE-1-QPSK-1 RB 0



B13-5M-Mid CH-PAPR-Q16



B13-5M-Mid CH-PAPR-QPSK



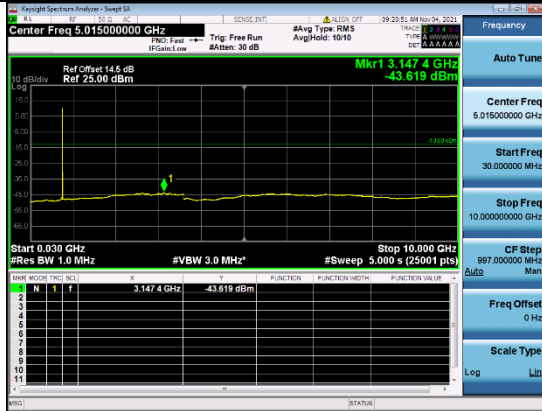
B13-5M-Mid CH-OBW-Q16



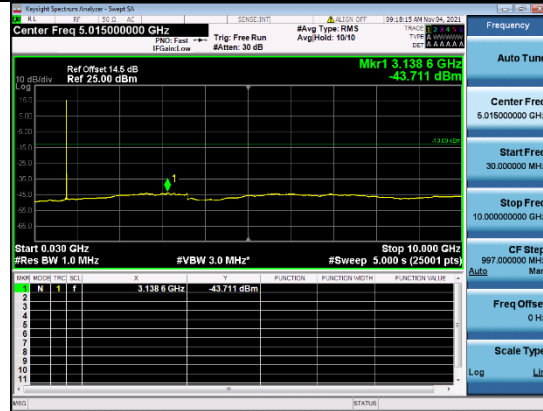
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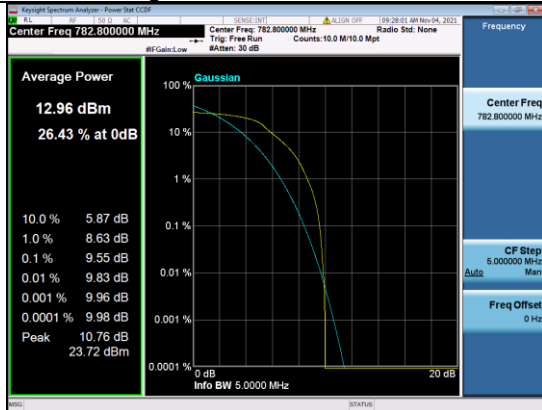
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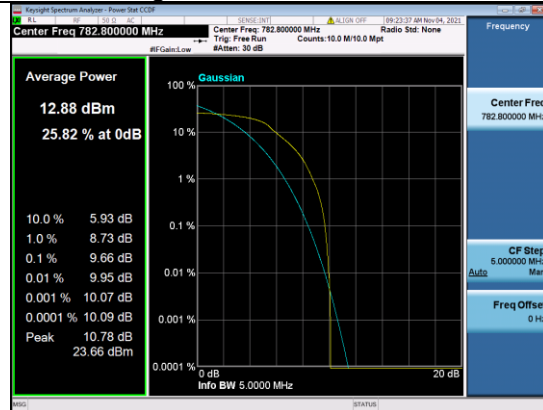
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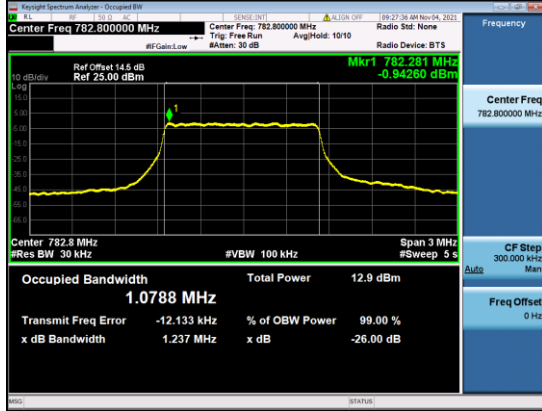
B13-5M-High CH-PAPR-Q16



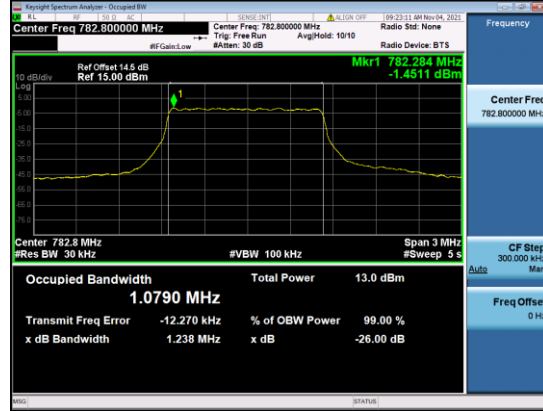
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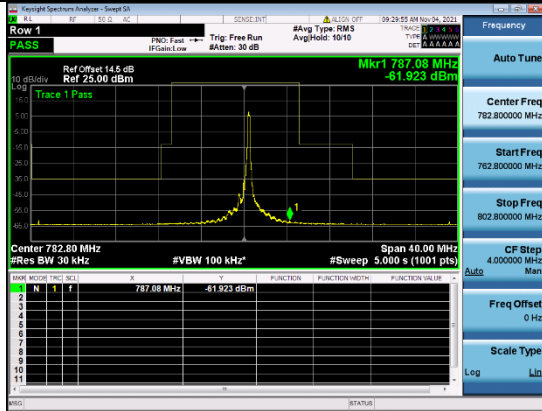
B13-5M-High CH-OBW-Q16



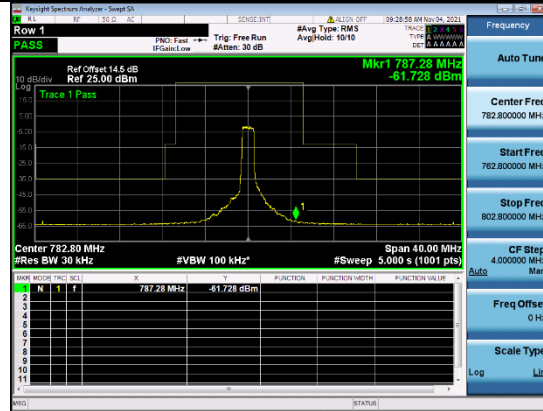
B13-5M-High CH-OBW-QPSK



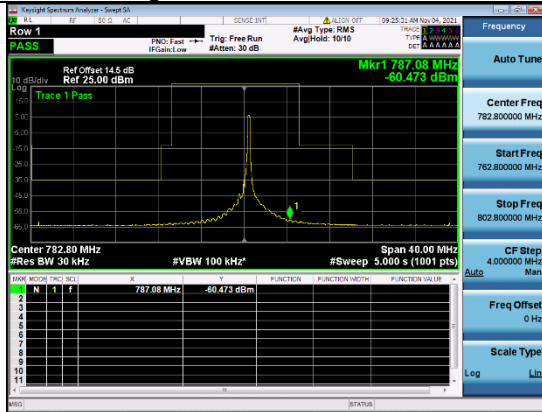
B13-5M-High CH-BE-Q16-1 RB MAX



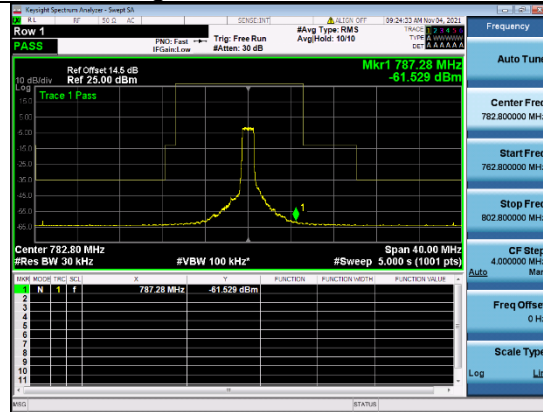
B13-5M-High CH-BE-Q16-Full RB 0



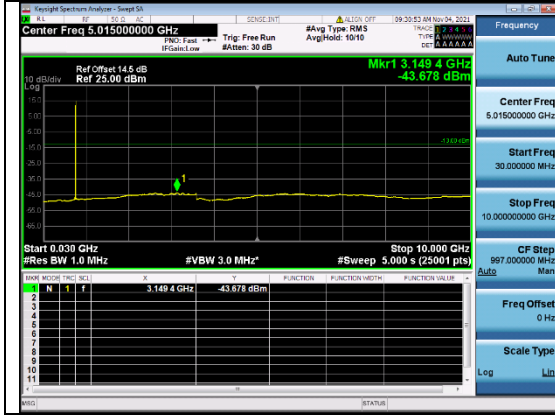
B13-5M-High CH-BE-QPSK-1 RB MAX



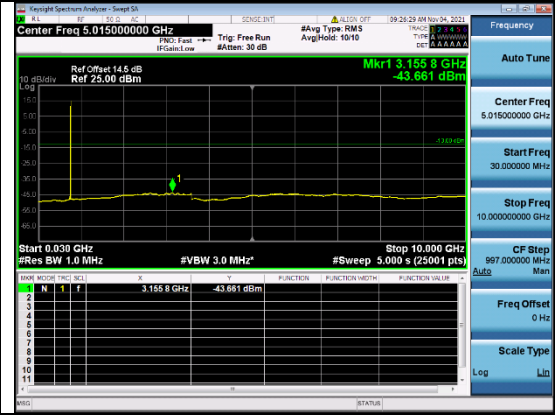
B13-5M-High CH-BE-QPSK-Full RB 0

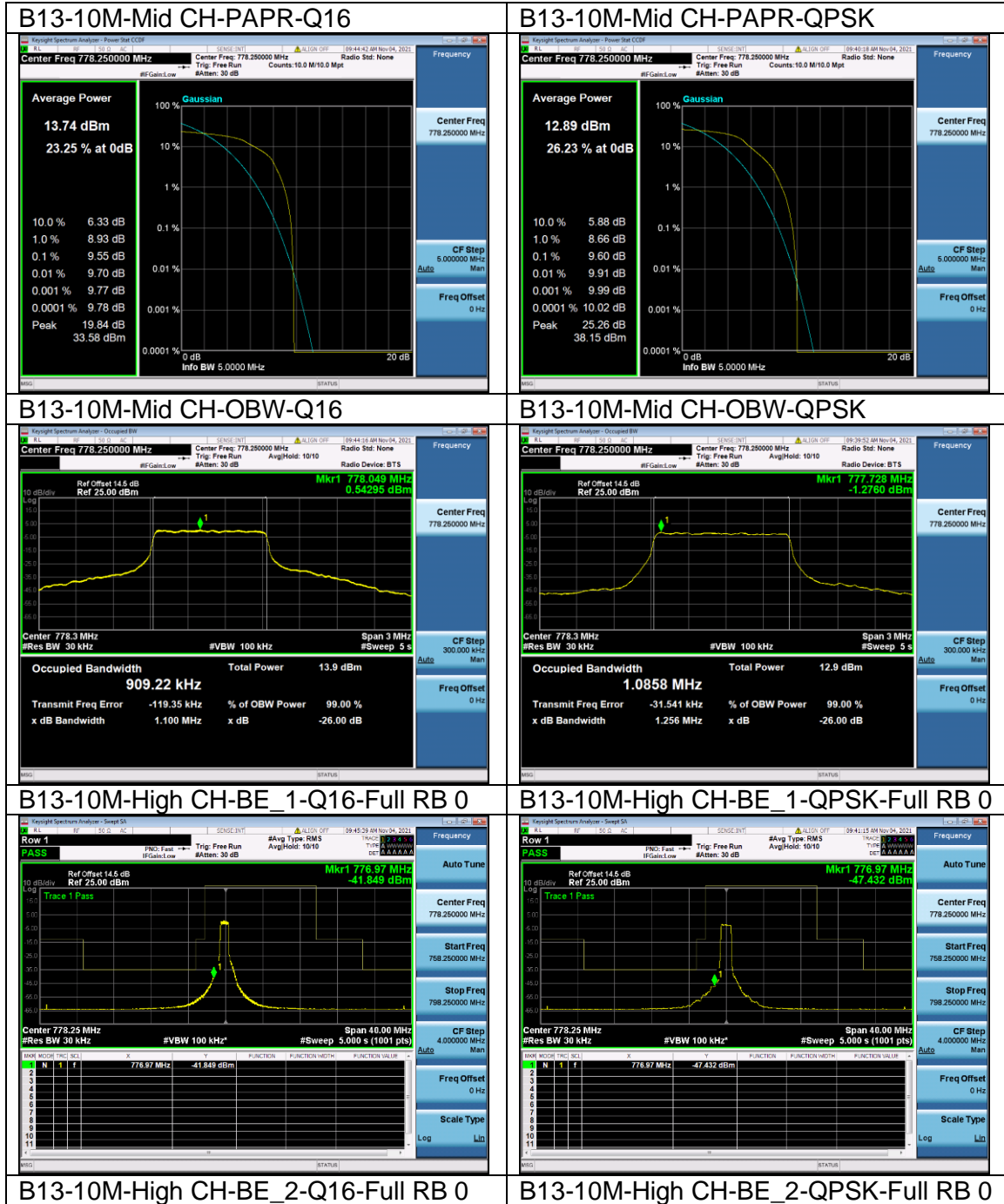


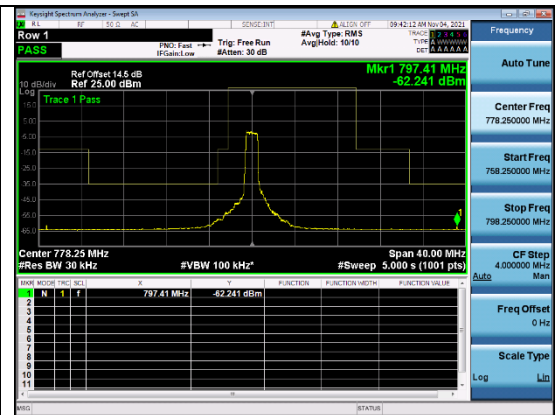
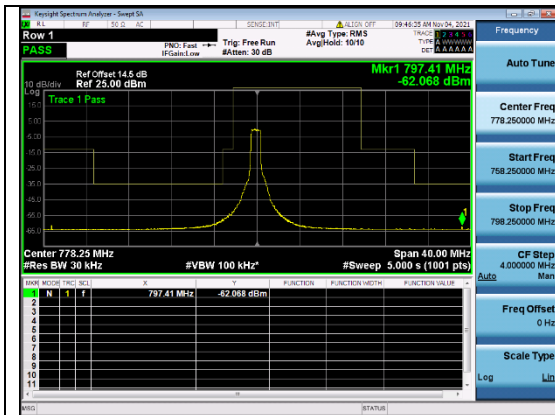
B13-5M-High CH-CSE-1-Q16-1 RB 0



B13-5M-High CH-CSE-1-QPSK-1 RB 0

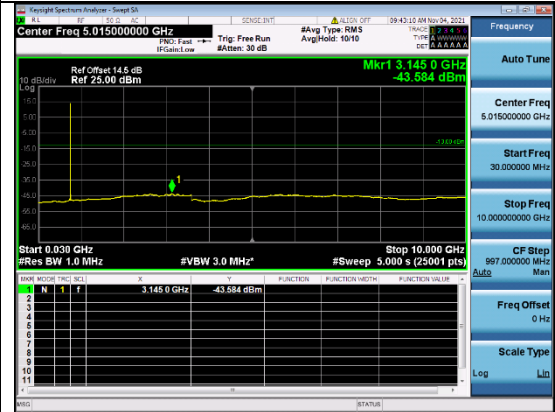
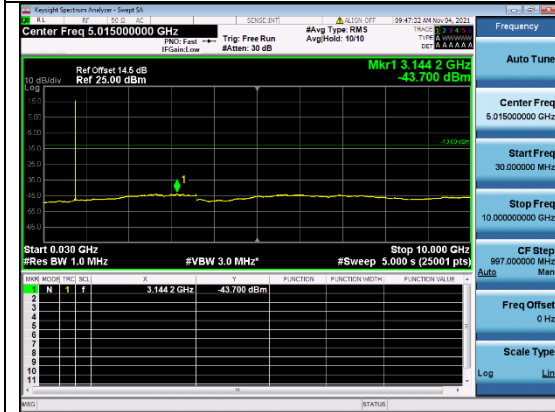






B13-10M-Mid CH-CSE-1-Q16-1 RB 0

B13-10M-Mid CH-CSE-1-QPSK-1 RB 0



3. Frequency Stability

3.1 B13_5MHz

3.1.1 Test Result

Band: 13 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	779.5	6	0	20	5.4	-25.821	-0.0331	-2.5 to 2.5	Pass
					6.0	-25.206	-0.0323	-2.5 to 2.5	Pass
					6.6	-24.219	-0.0311	-2.5 to 2.5	Pass
				-30	6.0	-23.146	-0.0297	-2.5 to 2.5	Pass
				-20	6.0	-21.758	-0.0279	-2.5 to 2.5	Pass
				-10	6.0	-20.385	-0.0262	-2.5 to 2.5	Pass
				0	6.0	-19.383	-0.0249	-2.5 to 2.5	Pass
				10	6.0	-18.067	-0.0232	-2.5 to 2.5	Pass
				30	6.0	-16.680	-0.0214	-2.5 to 2.5	Pass
				40	6.0	-15.736	-0.0202	-2.5 to 2.5	Pass
	50	6.0	-14.176	-0.0182	-2.5 to 2.5	Pass			
	782	6	0	20	5.4	-1.502	-0.0019	-2.5 to 2.5	Pass
					6.0	-1.502	-0.0019	-2.5 to 2.5	Pass
					6.6	-1.144	-0.0015	-2.5 to 2.5	Pass
				-30	6.0	-0.529	-0.0007	-2.5 to 2.5	Pass
				-20	6.0	-0.014	0.0000	-2.5 to 2.5	Pass
				-10	6.0	0.472	0.0006	-2.5 to 2.5	Pass
				0	6.0	1.116	0.0014	-2.5 to 2.5	Pass
				10	6.0	1.431	0.0018	-2.5 to 2.5	Pass
				30	6.0	1.888	0.0024	-2.5 to 2.5	Pass
40				6.0	1.945	0.0025	-2.5 to 2.5	Pass	
50	6.0	2.346	0.0030	-2.5 to 2.5	Pass				

	784.5	6	0	20	5.4	-5.279	-0.0067	-2.5 to 2.5	Pass
					6.0	-6.194	-0.0079	-2.5 to 2.5	Pass
					6.6	-5.980	-0.0076	-2.5 to 2.5	Pass
				-30	6.0	-5.536	-0.0071	-2.5 to 2.5	Pass
				-20	6.0	-5.507	-0.0070	-2.5 to 2.5	Pass
				-10	6.0	-5.121	-0.0065	-2.5 to 2.5	Pass
				0	6.0	-4.835	-0.0062	-2.5 to 2.5	Pass
				10	6.0	-5.150	-0.0066	-2.5 to 2.5	Pass
				30	6.0	-4.478	-0.0057	-2.5 to 2.5	Pass
				40	6.0	-4.263	-0.0054	-2.5 to 2.5	Pass
				50	6.0	-4.020	-0.0051	-2.5 to 2.5	Pass
16QAM	779.5	6	0	20	5.4	-12.388	-0.0159	-2.5 to 2.5	Pass
					6.0	-11.373	-0.0146	-2.5 to 2.5	Pass
					6.6	-10.114	-0.0130	-2.5 to 2.5	Pass
				-30	6.0	-9.241	-0.0119	-2.5 to 2.5	Pass
				-20	6.0	-8.154	-0.0105	-2.5 to 2.5	Pass
				-10	6.0	-7.339	-0.0094	-2.5 to 2.5	Pass
				0	6.0	-6.251	-0.0080	-2.5 to 2.5	Pass
				10	6.0	-5.708	-0.0073	-2.5 to 2.5	Pass
				30	6.0	-5.507	-0.0071	-2.5 to 2.5	Pass
				40	6.0	-4.377	-0.0056	-2.5 to 2.5	Pass
				50	6.0	-3.805	-0.0049	-2.5 to 2.5	Pass
	782	6	0	20	5.4	2.847	0.0036	-2.5 to 2.5	Pass
					6.0	2.832	0.0036	-2.5 to 2.5	Pass
					6.6	3.147	0.0040	-2.5 to 2.5	Pass
				-30	6.0	3.490	0.0045	-2.5 to 2.5	Pass
				-20	6.0	3.648	0.0047	-2.5 to 2.5	Pass
-10	6.0	4.005	0.0051	-2.5 to 2.5	Pass				

				0	6.0	4.549	0.0058	-2.5 to 2.5	Pass			
				10	6.0	4.420	0.0057	-2.5 to 2.5	Pass			
				30	6.0	4.749	0.0061	-2.5 to 2.5	Pass			
				40	6.0	5.007	0.0064	-2.5 to 2.5	Pass			
				50	6.0	5.035	0.0064	-2.5 to 2.5	Pass			
	784.5	6	0	20	5.4	-3.533	-0.0045	-2.5 to 2.5	Pass			
6.0					-2.389	-0.0030	-2.5 to 2.5	Pass				
6.6					-1.817	-0.0023	-2.5 to 2.5	Pass				
							-30	6.0	-2.103	-0.0027	-2.5 to 2.5	Pass
							-20	6.0	-1.631	-0.0021	-2.5 to 2.5	Pass
							-10	6.0	-1.259	-0.0016	-2.5 to 2.5	Pass
							0	6.0	-1.016	-0.0013	-2.5 to 2.5	Pass
							10	6.0	-0.701	-0.0009	-2.5 to 2.5	Pass
							30	6.0	-0.772	-0.0010	-2.5 to 2.5	Pass
							40	6.0	-0.787	-0.0010	-2.5 to 2.5	Pass
							50	6.0	-0.429	-0.0005	-2.5 to 2.5	Pass

3.2 B13_10MHz

3.2.1 Test Result

Band: 13 / Bandwidth: 10MHz													
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
		Size	Offset				Result	Limit					
QPSK	782	6	0	20	5.4	-14.119	-0.0181	-2.5 to 2.5	Pass				
					6.0	-15.135	-0.0194	-2.5 to 2.5	Pass				
					6.6	-15.063	-0.0193	-2.5 to 2.5	Pass				
								-30	6.0	-15.249	-0.0195	-2.5 to 2.5	Pass
								-20	6.0	-15.121	-0.0193	-2.5 to 2.5	Pass
								-10	6.0	-14.334	-0.0183	-2.5 to 2.5	Pass

				0	6.0	-13.361	-0.0171	-2.5 to 2.5	Pass
				10	6.0	-12.817	-0.0164	-2.5 to 2.5	Pass
				30	6.0	-11.945	-0.0153	-2.5 to 2.5	Pass
				40	6.0	-11.501	-0.0147	-2.5 to 2.5	Pass
				50	6.0	-10.915	-0.0140	-2.5 to 2.5	Pass
	782	6	0	20	5.4	-6.309	-0.0081	-2.5 to 2.5	Pass
6.0					-6.123	-0.0078	-2.5 to 2.5	Pass	
6.6					-5.651	-0.0072	-2.5 to 2.5	Pass	
-30				6.0	-5.064	-0.0065	-2.5 to 2.5	Pass	
-20				6.0	-4.635	-0.0059	-2.5 to 2.5	Pass	
-10				6.0	-4.449	-0.0057	-2.5 to 2.5	Pass	
0				6.0	-4.220	-0.0054	-2.5 to 2.5	Pass	
10				6.0	-3.791	-0.0048	-2.5 to 2.5	Pass	
30				6.0	-3.147	-0.0040	-2.5 to 2.5	Pass	
40				6.0	-2.589	-0.0033	-2.5 to 2.5	Pass	
50				6.0	-2.289	-0.0029	-2.5 to 2.5	Pass	
				782	6	0	20	5.4	1.130
6.0	1.302	0.0017	-2.5 to 2.5					Pass	
6.6	1.516	0.0019	-2.5 to 2.5					Pass	
-30	6.0	2.017	0.0026				-2.5 to 2.5	Pass	
-20	6.0	2.303	0.0029				-2.5 to 2.5	Pass	
-10	6.0	2.375	0.0030				-2.5 to 2.5	Pass	
0	6.0	3.033	0.0039				-2.5 to 2.5	Pass	
10	6.0	3.691	0.0047				-2.5 to 2.5	Pass	
30	6.0	3.877	0.0050				-2.5 to 2.5	Pass	
40	6.0	4.134	0.0053				-2.5 to 2.5	Pass	
50	6.0	4.578	0.0059				-2.5 to 2.5	Pass	
16QAM	782	6	0				20	5.4	-10.099

					6.0	-9.584	-0.0123	-2.5 to 2.5	Pass
					6.6	-9.027	-0.0115	-2.5 to 2.5	Pass
				-30	6.0	-8.698	-0.0111	-2.5 to 2.5	Pass
				-20	6.0	-8.597	-0.0110	-2.5 to 2.5	Pass
				-10	6.0	-8.168	-0.0104	-2.5 to 2.5	Pass
				0	6.0	-7.839	-0.0100	-2.5 to 2.5	Pass
				10	6.0	-7.124	-0.0091	-2.5 to 2.5	Pass
				30	6.0	-6.909	-0.0088	-2.5 to 2.5	Pass
				40	6.0	-6.952	-0.0089	-2.5 to 2.5	Pass
				50	6.0	-6.423	-0.0082	-2.5 to 2.5	Pass
					5.4	-1.545	-0.0020	-2.5 to 2.5	Pass
				20	6.0	-0.844	-0.0011	-2.5 to 2.5	Pass
					6.6	-0.601	-0.0008	-2.5 to 2.5	Pass
				-30	6.0	-0.687	-0.0009	-2.5 to 2.5	Pass
				-20	6.0	-0.086	-0.0001	-2.5 to 2.5	Pass
				-10	6.0	0.515	0.0007	-2.5 to 2.5	Pass
				0	6.0	0.644	0.0008	-2.5 to 2.5	Pass
				10	6.0	0.658	0.0008	-2.5 to 2.5	Pass
				30	6.0	0.801	0.0010	-2.5 to 2.5	Pass
				40	6.0	0.830	0.0011	-2.5 to 2.5	Pass
				50	6.0	0.944	0.0012	-2.5 to 2.5	Pass
					5.4	4.964	0.0063	-2.5 to 2.5	Pass
				20	6.0	5.236	0.0067	-2.5 to 2.5	Pass
					6.6	5.951	0.0076	-2.5 to 2.5	Pass
				-30	6.0	5.965	0.0076	-2.5 to 2.5	Pass
				-20	6.0	5.937	0.0076	-2.5 to 2.5	Pass
				-10	6.0	6.123	0.0078	-2.5 to 2.5	Pass
				0	6.0	6.323	0.0081	-2.5 to 2.5	Pass

				10	6.0	6.723	0.0086	-2.5 to 2.5	Pass
				30	6.0	7.310	0.0093	-2.5 to 2.5	Pass
				40	6.0	7.353	0.0094	-2.5 to 2.5	Pass
				50	6.0	7.911	0.0101	-2.5 to 2.5	Pass