

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B71\_5MHz\_ERP

### 1.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	665.5	1	0	21.57	0.34	19.76	<=34.77	Pass		
			13	21.67	0.34	19.86	<=34.77	Pass		
			24	21.59	0.34	19.78	<=34.77	Pass		
		12	0	20.54	0.34	18.73	<=34.77	Pass		
			6	20.65	0.34	18.84	<=34.77	Pass		
			13	20.63	0.34	18.82	<=34.77	Pass		
		25	0	20.60	0.34	18.79	<=34.77	Pass		
		680.5	1	0	21.43	0.34	19.62	<=34.77	Pass	
				13	21.53	0.34	19.72	<=34.77	Pass	
	24			21.40	0.34	19.59	<=34.77	Pass		
	12		0	20.43	0.34	18.62	<=34.77	Pass		
			6	20.50	0.34	18.69	<=34.77	Pass		
			13	20.40	0.34	18.59	<=34.77	Pass		
	25		0	20.48	0.34	18.67	<=34.77	Pass		
	695.5		1	0	21.36	0.34	19.55	<=34.77	Pass	
				13	21.52	0.34	19.71	<=34.77	Pass	
		24		21.49	0.34	19.68	<=34.77	Pass		
		12	0	20.44	0.34	18.63	<=34.77	Pass		
			6	20.50	0.34	18.69	<=34.77	Pass		
			13	20.47	0.34	18.66	<=34.77	Pass		
		25	0	20.51	0.34	18.70	<=34.77	Pass		
		16QAM	665.5	1	0	20.61	0.34	18.80	<=34.77	Pass
					13	20.75	0.34	18.94	<=34.77	Pass
	24				20.64	0.34	18.83	<=34.77	Pass	
	12			0	19.50	0.34	17.69	<=34.77	Pass	
				6	19.63	0.34	17.82	<=34.77	Pass	
				13	19.58	0.34	17.77	<=34.77	Pass	
25	0			19.52	0.34	17.71	<=34.77	Pass		
680.5	1			0	20.32	0.34	18.51	<=34.77	Pass	
				13	20.45	0.34	18.64	<=34.77	Pass	
			24	20.34	0.34	18.53	<=34.77	Pass		
	12		0	19.50	0.34	17.69	<=34.77	Pass		
			6	19.57	0.34	17.76	<=34.77	Pass		
			13	19.47	0.34	17.66	<=34.77	Pass		
	25		0	19.52	0.34	17.71	<=34.77	Pass		
	695.5		1	0	20.73	0.34	18.92	<=34.77	Pass	
				13	20.89	0.34	19.08	<=34.77	Pass	
24				20.83	0.34	19.02	<=34.77	Pass		
12			0	19.44	0.34	17.63	<=34.77	Pass		
			6	19.51	0.34	17.70	<=34.77	Pass		
			13	19.47	0.34	17.66	<=34.77	Pass		
25			0	19.46	0.34	17.65	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B71\_10MHz\_ERP

**Test Report Number: BTF240105R00405**

1.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	668	1	0	21.66	0.34	19.85	<=34.77	Pass		
			25	21.86	0.34	20.05	<=34.77	Pass		
			49	21.67	0.34	19.86	<=34.77	Pass		
		25	0	20.66	0.34	18.85	<=34.77	Pass		
			13	20.72	0.34	18.91	<=34.77	Pass		
			25	20.72	0.34	18.91	<=34.77	Pass		
		50	0	20.66	0.34	18.85	<=34.77	Pass		
		680.5	1	0	21.57	0.34	19.76	<=34.77	Pass	
				25	21.66	0.34	19.85	<=34.77	Pass	
	49			21.58	0.34	19.77	<=34.77	Pass		
	25		0	20.56	0.34	18.75	<=34.77	Pass		
			13	20.55	0.34	18.74	<=34.77	Pass		
			25	20.48	0.34	18.67	<=34.77	Pass		
	50		0	20.48	0.34	18.67	<=34.77	Pass		
	693		1	0	21.39	0.34	19.58	<=34.77	Pass	
				25	21.58	0.34	19.77	<=34.77	Pass	
		49		21.52	0.34	19.71	<=34.77	Pass		
		25	0	20.49	0.34	18.68	<=34.77	Pass		
			13	20.56	0.34	18.75	<=34.77	Pass		
			25	20.49	0.34	18.68	<=34.77	Pass		
		50	0	20.47	0.34	18.66	<=34.77	Pass		
		16QAM	668	1	0	20.95	0.34	19.14	<=34.77	Pass
					25	21.13	0.34	19.32	<=34.77	Pass
	49				20.97	0.34	19.16	<=34.77	Pass	
25	0			19.59	0.34	17.78	<=34.77	Pass		
	13			19.69	0.34	17.88	<=34.77	Pass		
	25			19.70	0.34	17.89	<=34.77	Pass		
50	0			19.63	0.34	17.82	<=34.77	Pass		
680.5	1			0	20.41	0.34	18.60	<=34.77	Pass	
				25	20.56	0.34	18.75	<=34.77	Pass	
			49	20.41	0.34	18.60	<=34.77	Pass		
	25		0	19.55	0.34	17.74	<=34.77	Pass		
			13	19.56	0.34	17.75	<=34.77	Pass		
			25	19.47	0.34	17.66	<=34.77	Pass		
	50		0	19.46	0.34	17.65	<=34.77	Pass		
	693		1	0	20.38	0.34	18.57	<=34.77	Pass	
				25	20.58	0.34	18.77	<=34.77	Pass	
49				20.51	0.34	18.70	<=34.77	Pass		
25			0	19.47	0.34	17.66	<=34.77	Pass		
			13	19.56	0.34	17.75	<=34.77	Pass		
			25	19.48	0.34	17.67	<=34.77	Pass		
50			0	19.45	0.34	17.64	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.3 B71\_15MHz\_ERP

1.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTNV
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**Test Report Number: BTF240105R00405**

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	670.5	1	0	21.51	0.34	19.70	<=34.77	Pass		
			38	21.65	0.34	19.84	<=34.77	Pass		
			74	21.42	0.34	19.61	<=34.77	Pass		
		36	0	20.54	0.34	18.73	<=34.77	Pass		
			18	20.66	0.34	18.85	<=34.77	Pass		
			39	20.64	0.34	18.83	<=34.77	Pass		
		75	0	20.66	0.34	18.85	<=34.77	Pass		
		680.5	1	0	21.47	0.34	19.66	<=34.77	Pass	
				38	21.56	0.34	19.75	<=34.77	Pass	
	74			21.34	0.34	19.53	<=34.77	Pass		
	36		0	20.45	0.34	18.64	<=34.77	Pass		
			18	20.49	0.34	18.68	<=34.77	Pass		
			39	20.40	0.34	18.59	<=34.77	Pass		
	75		0	20.46	0.34	18.65	<=34.77	Pass		
	690.5		1	0	21.30	0.34	19.49	<=34.77	Pass	
				38	21.44	0.34	19.63	<=34.77	Pass	
		74		21.37	0.34	19.56	<=34.77	Pass		
		36	0	20.44	0.34	18.63	<=34.77	Pass		
			18	20.48	0.34	18.67	<=34.77	Pass		
			39	20.49	0.34	18.68	<=34.77	Pass		
		75	0	20.49	0.34	18.68	<=34.77	Pass		
		16QAM	670.5	1	0	20.37	0.34	18.56	<=34.77	Pass
					38	20.61	0.34	18.80	<=34.77	Pass
	74				20.36	0.34	18.55	<=34.77	Pass	
36	0			19.54	0.34	17.73	<=34.77	Pass		
	18			19.64	0.34	17.83	<=34.77	Pass		
	39			19.65	0.34	17.84	<=34.77	Pass		
75	0			19.61	0.34	17.80	<=34.77	Pass		
680.5	1			0	20.33	0.34	18.52	<=34.77	Pass	
				38	20.42	0.34	18.61	<=34.77	Pass	
			74	20.24	0.34	18.43	<=34.77	Pass		
	36		0	19.45	0.34	17.64	<=34.77	Pass		
			18	19.50	0.34	17.69	<=34.77	Pass		
			39	19.41	0.34	17.60	<=34.77	Pass		
	75		0	19.40	0.34	17.59	<=34.77	Pass		
	690.5		1	0	20.26	0.34	18.45	<=34.77	Pass	
				38	20.43	0.34	18.62	<=34.77	Pass	
74				20.37	0.34	18.56	<=34.77	Pass		
36			0	19.37	0.34	17.56	<=34.77	Pass		
			18	19.44	0.34	17.63	<=34.77	Pass		
			39	19.46	0.34	17.65	<=34.77	Pass		
75			0	19.43	0.34	17.62	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15										

**1.4 B71\_20MHz\_ERP**

**1.4.1 Test Result**

Band: 71 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	673	1	0	21.28	0.34	19.47	<=34.77	Pass
			50	21.71	0.34	19.90	<=34.77	Pass

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		50	99	21.24	0.34	19.43	<=34.77	Pass		
			0	20.54	0.34	18.73	<=34.77	Pass		
			25	20.57	0.34	18.76	<=34.77	Pass		
			50	20.58	0.34	18.77	<=34.77	Pass		
		100	0	20.53	0.34	18.72	<=34.77	Pass		
		683	1	0	21.25	0.34	19.44	<=34.77	Pass	
				50	21.52	0.34	19.71	<=34.77	Pass	
				99	21.18	0.34	19.37	<=34.77	Pass	
			50	0	20.40	0.34	18.59	<=34.77	Pass	
				25	20.47	0.34	18.66	<=34.77	Pass	
	50			20.44	0.34	18.63	<=34.77	Pass		
	100	0	20.42	0.34	18.61	<=34.77	Pass			
	688	1	0	21.17	0.34	19.36	<=34.77	Pass		
			50	21.53	0.34	19.72	<=34.77	Pass		
			99	21.27	0.34	19.46	<=34.77	Pass		
		50	0	20.53	0.34	18.72	<=34.77	Pass		
			25	20.43	0.34	18.62	<=34.77	Pass		
			50	20.51	0.34	18.70	<=34.77	Pass		
		100	0	20.48	0.34	18.67	<=34.77	Pass		
		16QAM	673	1	0	20.63	0.34	18.82	<=34.77	Pass
					50	21.05	0.34	19.24	<=34.77	Pass
	99				20.62	0.34	18.81	<=34.77	Pass	
	50			0	19.46	0.34	17.65	<=34.77	Pass	
				25	19.54	0.34	17.73	<=34.77	Pass	
				50	19.53	0.34	17.72	<=34.77	Pass	
	100			0	19.49	0.34	17.68	<=34.77	Pass	
	683			1	0	20.25	0.34	18.44	<=34.77	Pass
50					20.51	0.34	18.70	<=34.77	Pass	
99					20.19	0.34	18.38	<=34.77	Pass	
50			0	19.39	0.34	17.58	<=34.77	Pass		
			25	19.44	0.34	17.63	<=34.77	Pass		
			50	19.42	0.34	17.61	<=34.77	Pass		
100			0	19.39	0.34	17.58	<=34.77	Pass		
688			1	0	19.99	0.34	18.18	<=34.77	Pass	
				50	20.38	0.34	18.57	<=34.77	Pass	
	99			20.08	0.34	18.27	<=34.77	Pass		
	50		0	19.47	0.34	17.66	<=34.77	Pass		
			25	19.42	0.34	17.61	<=34.77	Pass		
			50	19.43	0.34	17.62	<=34.77	Pass		
	100		0	19.45	0.34	17.64	<=34.77	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15									

## 2. Frequency Stability

### 2.1 B71\_5MHz

#### 2.1.1 Test Result

Band: 71 / Bandwidth: 5MHz													
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
		Size	Offset				Result	Limit					
QPSK	665.5	25	0	20	3.27	-6.309	-0.0095	-2.5 to 2.5	Pass				
									3.85	-8.168	-0.0123	-2.5 to 2.5	Pass
									4.43	-4.892	-0.0074	-2.5 to 2.5	Pass

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				-30	3.85	-9.069	-0.0136	-2.5 to 2.5	Pass			
				-20	3.85	-7.539	-0.0113	-2.5 to 2.5	Pass			
				-10	3.85	-7.710	-0.0116	-2.5 to 2.5	Pass			
				0	3.85	-6.251	-0.0094	-2.5 to 2.5	Pass			
				10	3.85	-7.625	-0.0115	-2.5 to 2.5	Pass			
				30	3.85	-9.685	-0.0146	-2.5 to 2.5	Pass			
				40	3.85	-8.526	-0.0128	-2.5 to 2.5	Pass			
	50	3.85	-3.004	-0.0045	-2.5 to 2.5	Pass						
	680.5	25	0	20	3.27	-1.731	-0.0025	-2.5 to 2.5	Pass			
					3.85	-2.618	-0.0038	-2.5 to 2.5	Pass			
					4.43	-4.606	-0.0068	-2.5 to 2.5	Pass			
				-30	3.85	-5.164	-0.0076	-2.5 to 2.5	Pass			
				-20	3.85	-5.350	-0.0079	-2.5 to 2.5	Pass			
				-10	3.85	-3.948	-0.0058	-2.5 to 2.5	Pass			
				0	3.85	-7.739	-0.0114	-2.5 to 2.5	Pass			
				10	3.85	-10.242	-0.0151	-2.5 to 2.5	Pass			
				30	3.85	-6.466	-0.0095	-2.5 to 2.5	Pass			
				40	3.85	-8.340	-0.0123	-2.5 to 2.5	Pass			
				50	3.85	-6.866	-0.0101	-2.5 to 2.5	Pass			
				695.5	25	0	20	3.27	-5.965	-0.0086	-2.5 to 2.5	Pass
								3.85	-10.657	-0.0153	-2.5 to 2.5	Pass
								4.43	-4.191	-0.0060	-2.5 to 2.5	Pass
	-30	3.85	-3.376				-0.0049	-2.5 to 2.5	Pass			
	-20	3.85	-0.958				-0.0014	-2.5 to 2.5	Pass			
	-10	3.85	-3.963				-0.0057	-2.5 to 2.5	Pass			
	0	3.85	-1.087				-0.0016	-2.5 to 2.5	Pass			
	10	3.85	-9.499				-0.0137	-2.5 to 2.5	Pass			
30	3.85	-4.363	-0.0063				-2.5 to 2.5	Pass				
40	3.85	-3.862	-0.0056				-2.5 to 2.5	Pass				
50	3.85	-3.147	-0.0045				-2.5 to 2.5	Pass				
16QAM	665.5	25	0	20	3.27	-5.836	-0.0088	-2.5 to 2.5	Pass			
					3.85	-6.208	-0.0093	-2.5 to 2.5	Pass			
					4.43	-8.297	-0.0125	-2.5 to 2.5	Pass			
				-30	3.85	-7.911	-0.0119	-2.5 to 2.5	Pass			
				-20	3.85	-11.172	-0.0168	-2.5 to 2.5	Pass			
				-10	3.85	-8.841	-0.0133	-2.5 to 2.5	Pass			
				0	3.85	-5.479	-0.0082	-2.5 to 2.5	Pass			
				10	3.85	-9.985	-0.0150	-2.5 to 2.5	Pass			
				30	3.85	-7.868	-0.0118	-2.5 to 2.5	Pass			
				40	3.85	-11.573	-0.0174	-2.5 to 2.5	Pass			
				50	3.85	-8.497	-0.0128	-2.5 to 2.5	Pass			
				680.5	25	0	20	3.27	-6.452	-0.0095	-2.5 to 2.5	Pass
								3.85	-8.483	-0.0125	-2.5 to 2.5	Pass
								4.43	-8.583	-0.0126	-2.5 to 2.5	Pass
	-30	3.85	-3.376				-0.0050	-2.5 to 2.5	Pass			
	-20	3.85	-9.699				-0.0143	-2.5 to 2.5	Pass			
	-10	3.85	-8.783				-0.0129	-2.5 to 2.5	Pass			
	0	3.85	-8.984				-0.0132	-2.5 to 2.5	Pass			
	10	3.85	-10.200				-0.0150	-2.5 to 2.5	Pass			
	30	3.85	-7.739				-0.0114	-2.5 to 2.5	Pass			
	40	3.85	-6.480				-0.0095	-2.5 to 2.5	Pass			
	50	3.85	-5.708				-0.0084	-2.5 to 2.5	Pass			
	695.5	25	0	20	3.27	-2.303	-0.0033	-2.5 to 2.5	Pass			
					3.85	-6.208	-0.0089	-2.5 to 2.5	Pass			
					4.43	-1.745	-0.0025	-2.5 to 2.5	Pass			
				-30	3.85	-6.208	-0.0089	-2.5 to 2.5	Pass			
				-20	3.85	-8.726	-0.0125	-2.5 to 2.5	Pass			

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				-10	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-9.341	-0.0134	-2.5 to 2.5	Pass
				10	3.85	-8.740	-0.0126	-2.5 to 2.5	Pass
				30	3.85	-2.275	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-13.590	-0.0195	-2.5 to 2.5	Pass
				50	3.85	-6.366	-0.0092	-2.5 to 2.5	Pass

**2.2 B71\_10MHz**

**2.2.1 Test Result**

Band: 71 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	668	50	0	20	3.27	-6.237	-0.0093	-2.5 to 2.5	Pass
					3.85	-7.153	-0.0107	-2.5 to 2.5	Pass
					4.43	-7.424	-0.0111	-2.5 to 2.5	Pass
				-30	3.85	-5.193	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-7.281	-0.0109	-2.5 to 2.5	Pass
				-10	3.85	-6.037	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-8.683	-0.0130	-2.5 to 2.5	Pass
				10	3.85	-4.034	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-4.120	-0.0062	-2.5 to 2.5	Pass
				40	3.85	-5.193	-0.0078	-2.5 to 2.5	Pass
	50	3.85	-8.941	-0.0134	-2.5 to 2.5	Pass			
	680.5	50	0	20	3.27	-5.479	-0.0081	-2.5 to 2.5	Pass
					3.85	-4.606	-0.0068	-2.5 to 2.5	Pass
					4.43	-4.907	-0.0072	-2.5 to 2.5	Pass
				-30	3.85	-6.952	-0.0102	-2.5 to 2.5	Pass
				-20	3.85	-8.082	-0.0119	-2.5 to 2.5	Pass
				-10	3.85	-6.580	-0.0097	-2.5 to 2.5	Pass
				0	3.85	-8.740	-0.0128	-2.5 to 2.5	Pass
				10	3.85	-8.440	-0.0124	-2.5 to 2.5	Pass
				30	3.85	-6.652	-0.0098	-2.5 to 2.5	Pass
				40	3.85	-6.065	-0.0089	-2.5 to 2.5	Pass
	50	3.85	-6.566	-0.0096	-2.5 to 2.5	Pass			
	693	50	0	20	3.27	-9.055	-0.0131	-2.5 to 2.5	Pass
					3.85	-8.454	-0.0122	-2.5 to 2.5	Pass
					4.43	-5.779	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-7.925	-0.0114	-2.5 to 2.5	Pass
				-20	3.85	-5.922	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	-6.237	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-7.067	-0.0102	-2.5 to 2.5	Pass
				10	3.85	-7.510	-0.0108	-2.5 to 2.5	Pass
30				3.85	-5.193	-0.0075	-2.5 to 2.5	Pass	
40				3.85	-5.836	-0.0084	-2.5 to 2.5	Pass	
50	3.85	-7.439	-0.0107	-2.5 to 2.5	Pass				
16QAM	668	50	0	20	3.27	-5.078	-0.0076	-2.5 to 2.5	Pass
					3.85	-1.316	-0.0020	-2.5 to 2.5	Pass
					4.43	-7.682	-0.0115	-2.5 to 2.5	Pass
				-30	3.85	-8.125	-0.0122	-2.5 to 2.5	Pass
				-20	3.85	-3.619	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-2.503	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-10.042	-0.0150	-2.5 to 2.5	Pass
10	3.85	-9.327	-0.0140	-2.5 to 2.5	Pass				

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	680.5	50	0	30	3.85	-6.952	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-8.168	-0.0122	-2.5 to 2.5	Pass
				50	3.85	-3.805	-0.0057	-2.5 to 2.5	Pass
				20	3.27	-8.225	-0.0121	-2.5 to 2.5	Pass
					3.85	-6.838	-0.0100	-2.5 to 2.5	Pass
					4.43	-6.294	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-8.183	-0.0120	-2.5 to 2.5	Pass
				-20	3.85	-8.841	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-8.640	-0.0127	-2.5 to 2.5	Pass
				0	3.85	-5.193	-0.0076	-2.5 to 2.5	Pass
	10	3.85	-6.452	-0.0095	-2.5 to 2.5	Pass			
	30	3.85	-7.210	-0.0106	-2.5 to 2.5	Pass			
	40	3.85	-11.086	-0.0163	-2.5 to 2.5	Pass			
	50	3.85	-7.067	-0.0104	-2.5 to 2.5	Pass			
	693	50	0	20	3.27	-8.755	-0.0126	-2.5 to 2.5	Pass
					3.85	-8.440	-0.0122	-2.5 to 2.5	Pass
					4.43	-5.693	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-8.655	-0.0125	-2.5 to 2.5	Pass
				-20	3.85	-6.323	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-6.337	-0.0091	-2.5 to 2.5	Pass
0				3.85	-8.068	-0.0116	-2.5 to 2.5	Pass	
10				3.85	-6.967	-0.0101	-2.5 to 2.5	Pass	
30				3.85	-5.207	-0.0075	-2.5 to 2.5	Pass	
40				3.85	-9.112	-0.0131	-2.5 to 2.5	Pass	
50	3.85	-7.339	-0.0106	-2.5 to 2.5	Pass				

## 2.3 B71\_15MHz

### 2.3.1 Test Result

Band: 71 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	670.5	75	0	20	3.27	-6.065	-0.0090	-2.5 to 2.5	Pass
					3.85	-5.708	-0.0085	-2.5 to 2.5	Pass
					4.43	-7.582	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-7.954	-0.0119	-2.5 to 2.5	Pass
				-20	3.85	-6.051	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-5.536	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-6.752	-0.0101	-2.5 to 2.5	Pass
				10	3.85	-6.623	-0.0099	-2.5 to 2.5	Pass
				30	3.85	-9.885	-0.0147	-2.5 to 2.5	Pass
				40	3.85	-7.539	-0.0112	-2.5 to 2.5	Pass
	50	3.85	-6.709	-0.0100	-2.5 to 2.5	Pass			
	680.5	75	0	20	3.27	-7.424	-0.0109	-2.5 to 2.5	Pass
					3.85	-6.695	-0.0098	-2.5 to 2.5	Pass
					4.43	-5.922	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-5.651	-0.0083	-2.5 to 2.5	Pass
				-20	3.85	-6.738	-0.0099	-2.5 to 2.5	Pass
				-10	3.85	-4.992	-0.0073	-2.5 to 2.5	Pass
				0	3.85	-5.007	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-6.466	-0.0095	-2.5 to 2.5	Pass
				30	3.85	-7.138	-0.0105	-2.5 to 2.5	Pass
40				3.85	-6.752	-0.0099	-2.5 to 2.5	Pass	
50	3.85	-5.765	-0.0085	-2.5 to 2.5	Pass				

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	690.5	75	0	20	3.27	-4.835	-0.0070	-2.5 to 2.5	Pass					
					3.85	-4.649	-0.0067	-2.5 to 2.5	Pass					
					4.43	-4.048	-0.0059	-2.5 to 2.5	Pass					
								-30	3.85	-3.419	-0.0050	-2.5 to 2.5	Pass	
								-20	3.85	-5.493	-0.0080	-2.5 to 2.5	Pass	
								-10	3.85	-2.632	-0.0038	-2.5 to 2.5	Pass	
								0	3.85	-6.237	-0.0090	-2.5 to 2.5	Pass	
								10	3.85	-6.824	-0.0099	-2.5 to 2.5	Pass	
								30	3.85	-5.579	-0.0081	-2.5 to 2.5	Pass	
								40	3.85	-6.008	-0.0087	-2.5 to 2.5	Pass	
50	3.85	-7.381	-0.0107	-2.5 to 2.5	Pass									
16QAM	670.5	75	0	20	3.27	-7.768	-0.0116	-2.5 to 2.5	Pass					
					3.85	-6.480	-0.0097	-2.5 to 2.5	Pass					
					4.43	-7.639	-0.0114	-2.5 to 2.5	Pass					
								-30	3.85	-6.881	-0.0103	-2.5 to 2.5	Pass	
								-20	3.85	-4.835	-0.0072	-2.5 to 2.5	Pass	
								-10	3.85	-5.536	-0.0083	-2.5 to 2.5	Pass	
								0	3.85	-7.567	-0.0113	-2.5 to 2.5	Pass	
								10	3.85	-6.294	-0.0094	-2.5 to 2.5	Pass	
								30	3.85	-8.225	-0.0123	-2.5 to 2.5	Pass	
								40	3.85	-5.736	-0.0086	-2.5 to 2.5	Pass	
	50	3.85	-6.895	-0.0103	-2.5 to 2.5	Pass								
		680.5	75	0	20	3.27	-8.426	-0.0124	-2.5 to 2.5	Pass				
						3.85	-7.253	-0.0107	-2.5 to 2.5	Pass				
						4.43	-5.193	-0.0076	-2.5 to 2.5	Pass				
									-30	3.85	-9.441	-0.0139	-2.5 to 2.5	Pass
									-20	3.85	-8.025	-0.0118	-2.5 to 2.5	Pass
									-10	3.85	-8.025	-0.0118	-2.5 to 2.5	Pass
									0	3.85	-7.739	-0.0114	-2.5 to 2.5	Pass
									10	3.85	-9.513	-0.0140	-2.5 to 2.5	Pass
									30	3.85	-5.550	-0.0082	-2.5 to 2.5	Pass
									40	3.85	-8.755	-0.0129	-2.5 to 2.5	Pass
	50	3.85	-6.394	-0.0094	-2.5 to 2.5	Pass								
		690.5	75	0	20	3.27	-3.948	-0.0057	-2.5 to 2.5	Pass				
						3.85	-6.251	-0.0091	-2.5 to 2.5	Pass				
						4.43	-8.883	-0.0129	-2.5 to 2.5	Pass				
									-30	3.85	-5.364	-0.0078	-2.5 to 2.5	Pass
									-20	3.85	-6.709	-0.0097	-2.5 to 2.5	Pass
									-10	3.85	-7.010	-0.0102	-2.5 to 2.5	Pass
									0	3.85	-6.223	-0.0090	-2.5 to 2.5	Pass
									10	3.85	-6.008	-0.0087	-2.5 to 2.5	Pass
30									3.85	-5.980	-0.0087	-2.5 to 2.5	Pass	
40									3.85	-5.894	-0.0085	-2.5 to 2.5	Pass	
50	3.85	-6.137	-0.0089	-2.5 to 2.5	Pass									

## 2.4 B71\_20MHz

### 2.4.1 Test Result

Band: 71 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	673	100	0	20	3.27	-9.298	-0.0138	-2.5 to 2.5	Pass
					3.85	-7.067	-0.0105	-2.5 to 2.5	Pass
					4.43	-6.022	-0.0089	-2.5 to 2.5	Pass



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				-30	3.85	-6.566	-0.0098	-2.5 to 2.5	Pass			
				-20	3.85	-7.281	-0.0108	-2.5 to 2.5	Pass			
				-10	3.85	-8.612	-0.0128	-2.5 to 2.5	Pass			
				0	3.85	-5.693	-0.0085	-2.5 to 2.5	Pass			
				10	3.85	-6.423	-0.0095	-2.5 to 2.5	Pass			
				30	3.85	-8.097	-0.0120	-2.5 to 2.5	Pass			
				40	3.85	-6.866	-0.0102	-2.5 to 2.5	Pass			
	50	3.85	-5.922	-0.0088	-2.5 to 2.5	Pass						
	683	100	0	20	3.27	-4.134	-0.0061	-2.5 to 2.5	Pass			
					3.85	-5.894	-0.0086	-2.5 to 2.5	Pass			
					4.43	-7.167	-0.0105	-2.5 to 2.5	Pass			
				-30	3.85	-7.381	-0.0108	-2.5 to 2.5	Pass			
				-20	3.85	-6.838	-0.0100	-2.5 to 2.5	Pass			
				-10	3.85	-7.997	-0.0117	-2.5 to 2.5	Pass			
				0	3.85	-4.506	-0.0066	-2.5 to 2.5	Pass			
				10	3.85	-7.653	-0.0112	-2.5 to 2.5	Pass			
				30	3.85	-5.164	-0.0076	-2.5 to 2.5	Pass			
				40	3.85	-4.978	-0.0073	-2.5 to 2.5	Pass			
				50	3.85	-5.765	-0.0084	-2.5 to 2.5	Pass			
				688	100	0	20	3.27	-4.449	-0.0065	-2.5 to 2.5	Pass
								3.85	-5.293	-0.0077	-2.5 to 2.5	Pass
								4.43	-8.998	-0.0131	-2.5 to 2.5	Pass
	-30	3.85	-10.200				-0.0148	-2.5 to 2.5	Pass			
	-20	3.85	-10.314				-0.0150	-2.5 to 2.5	Pass			
	-10	3.85	-8.569				-0.0125	-2.5 to 2.5	Pass			
	0	3.85	-6.237				-0.0091	-2.5 to 2.5	Pass			
	10	3.85	-9.155				-0.0133	-2.5 to 2.5	Pass			
30	3.85	-8.068	-0.0117				-2.5 to 2.5	Pass				
40	3.85	-6.423	-0.0093				-2.5 to 2.5	Pass				
50	3.85	-8.097	-0.0118				-2.5 to 2.5	Pass				
16QAM	673	100	0	20	3.27	-6.781	-0.0101	-2.5 to 2.5	Pass			
					3.85	-5.393	-0.0080	-2.5 to 2.5	Pass			
					4.43	-6.452	-0.0096	-2.5 to 2.5	Pass			
				-30	3.85	-6.952	-0.0103	-2.5 to 2.5	Pass			
				-20	3.85	-9.699	-0.0144	-2.5 to 2.5	Pass			
				-10	3.85	-2.933	-0.0044	-2.5 to 2.5	Pass			
				0	3.85	-7.524	-0.0112	-2.5 to 2.5	Pass			
				10	3.85	-8.826	-0.0131	-2.5 to 2.5	Pass			
				30	3.85	-9.513	-0.0141	-2.5 to 2.5	Pass			
				40	3.85	-5.980	-0.0089	-2.5 to 2.5	Pass			
				50	3.85	-5.951	-0.0088	-2.5 to 2.5	Pass			
				683	100	0	20	3.27	-9.227	-0.0135	-2.5 to 2.5	Pass
								3.85	-8.497	-0.0124	-2.5 to 2.5	Pass
								4.43	-7.324	-0.0107	-2.5 to 2.5	Pass
	-30	3.85	-5.722				-0.0084	-2.5 to 2.5	Pass			
	-20	3.85	-9.141				-0.0134	-2.5 to 2.5	Pass			
	-10	3.85	-6.309				-0.0092	-2.5 to 2.5	Pass			
	0	3.85	-6.852				-0.0100	-2.5 to 2.5	Pass			
	10	3.85	-9.212				-0.0135	-2.5 to 2.5	Pass			
	30	3.85	-8.254				-0.0121	-2.5 to 2.5	Pass			
	40	3.85	-5.736				-0.0084	-2.5 to 2.5	Pass			
	50	3.85	-8.941				-0.0131	-2.5 to 2.5	Pass			
	688	100	0				20	3.27	-7.467	-0.0109	-2.5 to 2.5	Pass
								3.85	-7.424	-0.0108	-2.5 to 2.5	Pass
				4.43	-8.183	-0.0119		-2.5 to 2.5	Pass			
				-30	3.85	-7.553	-0.0110	-2.5 to 2.5	Pass			
				-20	3.85	-9.127	-0.0133	-2.5 to 2.5	Pass			

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				-10	3.85	-7.353	-0.0107	-2.5 to 2.5	Pass
				0	3.85	-7.954	-0.0116	-2.5 to 2.5	Pass
				10	3.85	-9.727	-0.0141	-2.5 to 2.5	Pass
				30	3.85	-7.181	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-7.911	-0.0115	-2.5 to 2.5	Pass
				50	3.85	-7.496	-0.0109	-2.5 to 2.5	Pass

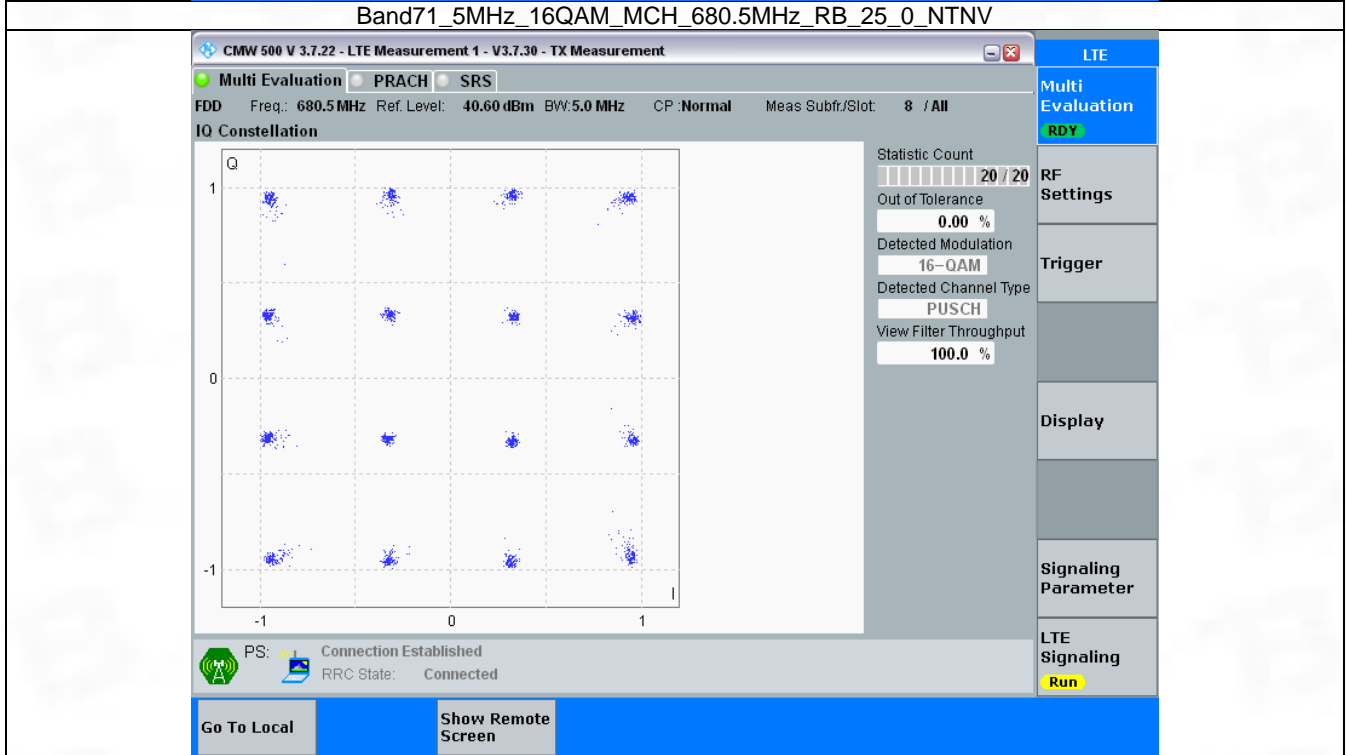
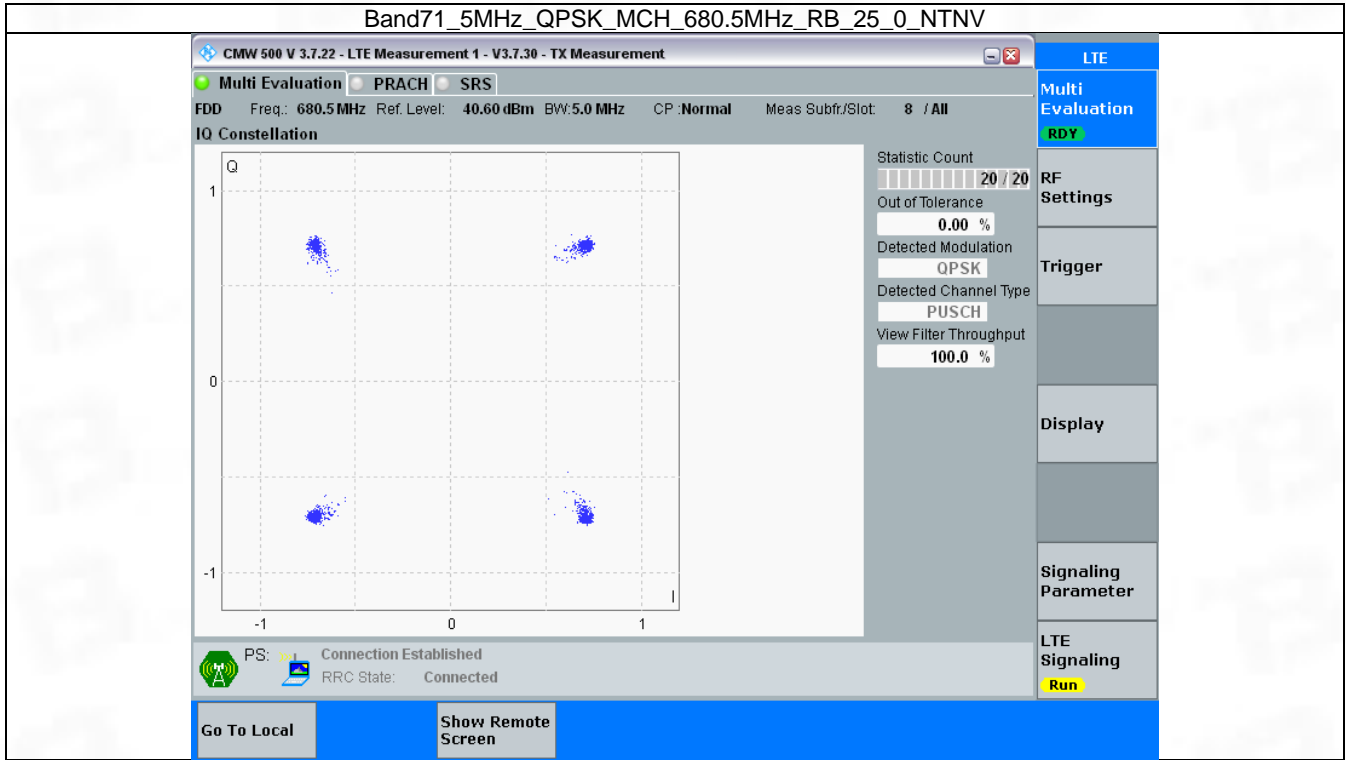
### 3. Modulation Characteristics

#### 3.1 B71\_5MHz

##### 3.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	25	0	Refer To Test Graph		Pass
16QAM	680.5	25	0	Refer To Test Graph		Pass

3.1.2 Test Graph

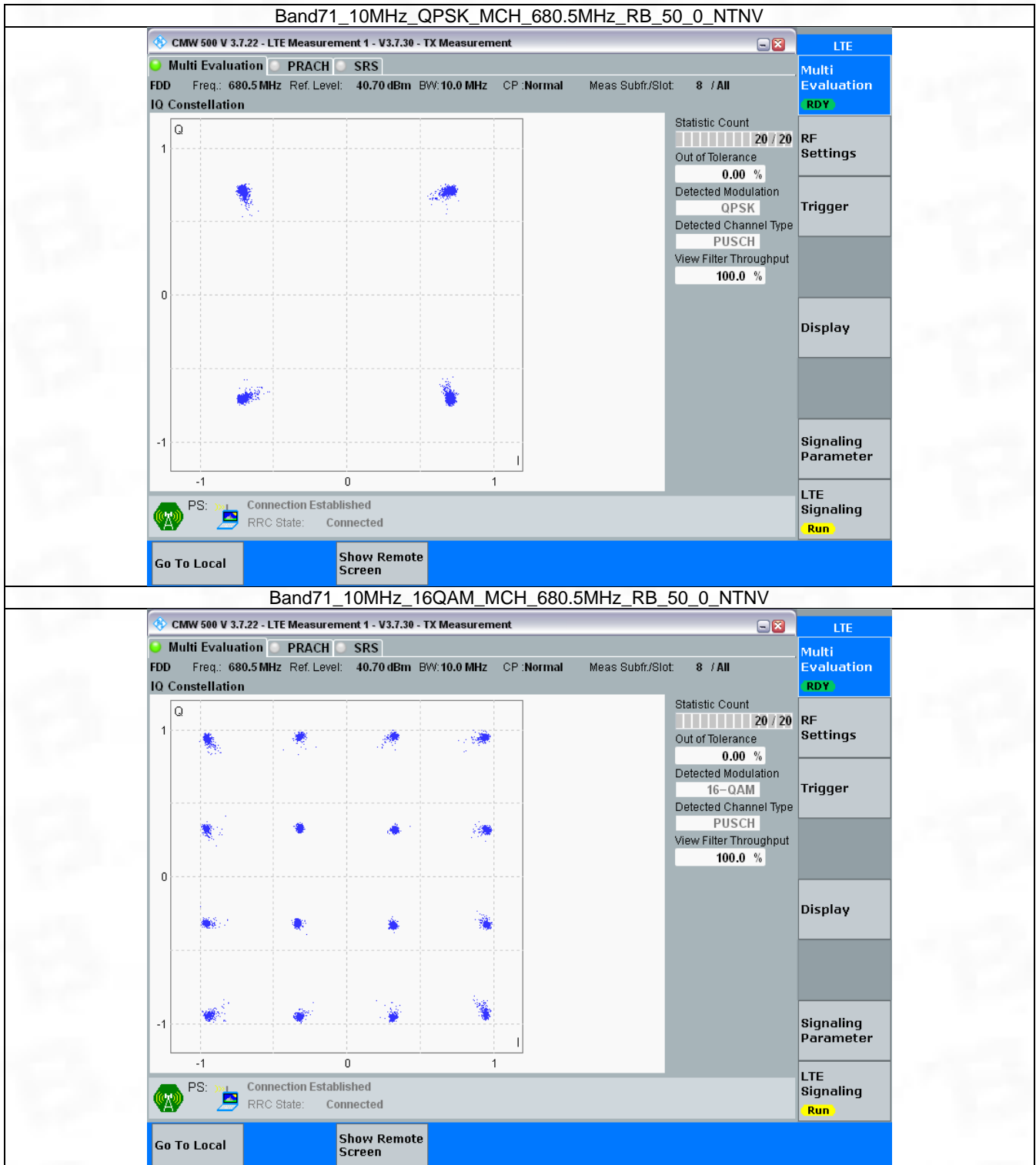


### 3.2 B71\_10MHz

#### 3.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	50	0	Refer To Test Graph		Pass
16QAM	680.5	50	0	Refer To Test Graph		Pass

3.2.2 Test Graph

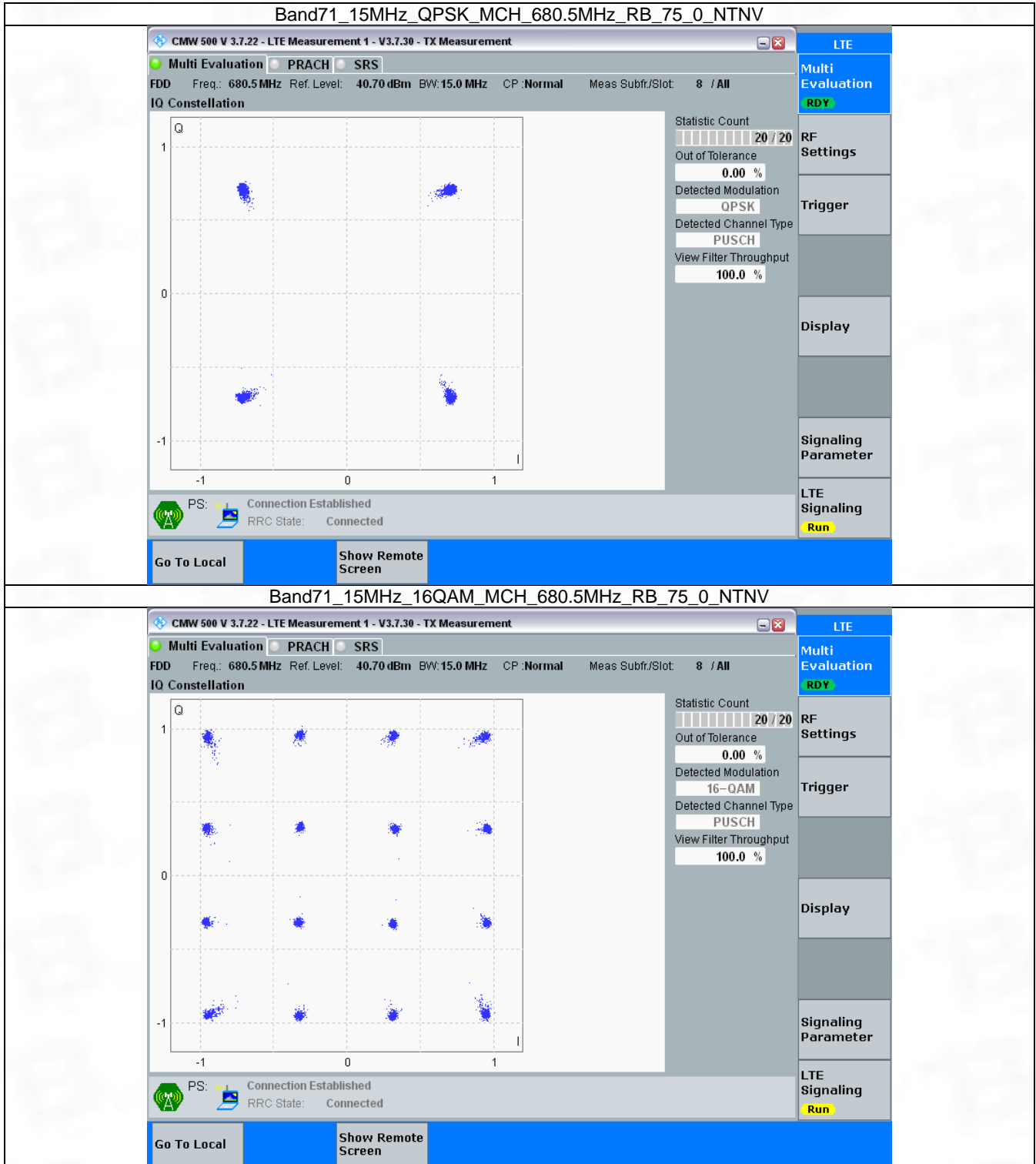


3.3 B71\_15MHz

3.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	75	0	Refer To Test Graph		Pass
16QAM	680.5	75	0	Refer To Test Graph		Pass

3.3.2 Test Graph



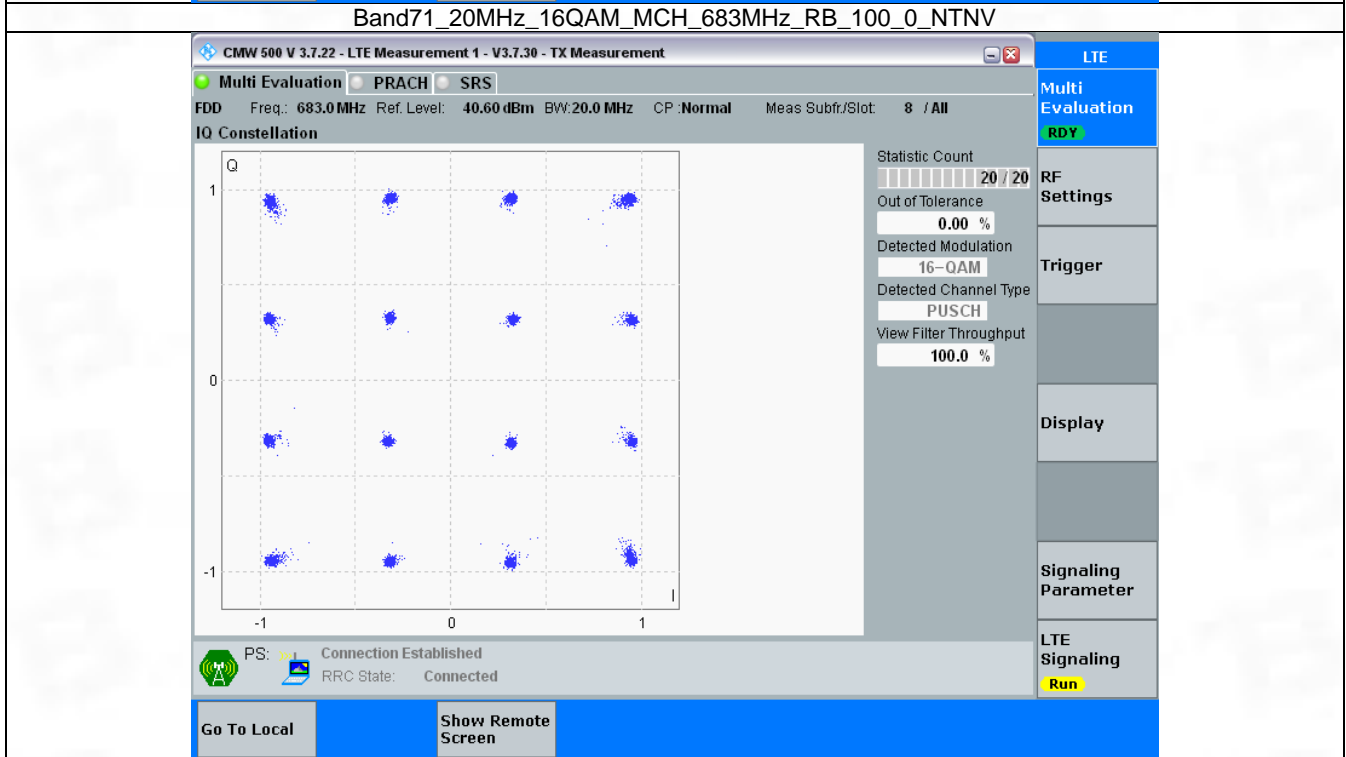
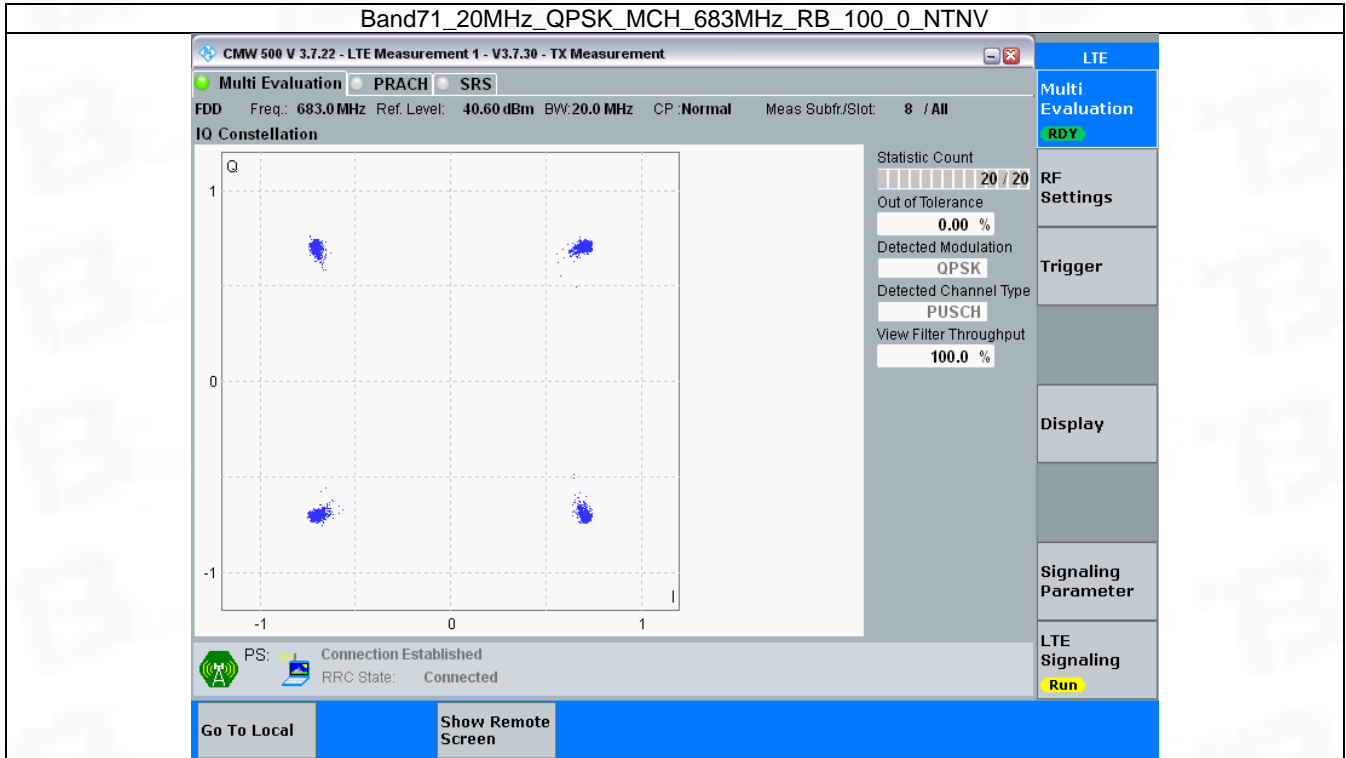
3.4 B71\_20MHz

3.4.1 Test Result

Band: 71 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	683	100	0	Refer To Test Graph		Pass
16QAM	683	100	0	Refer To Test Graph		Pass



3.4.2 Test Graph



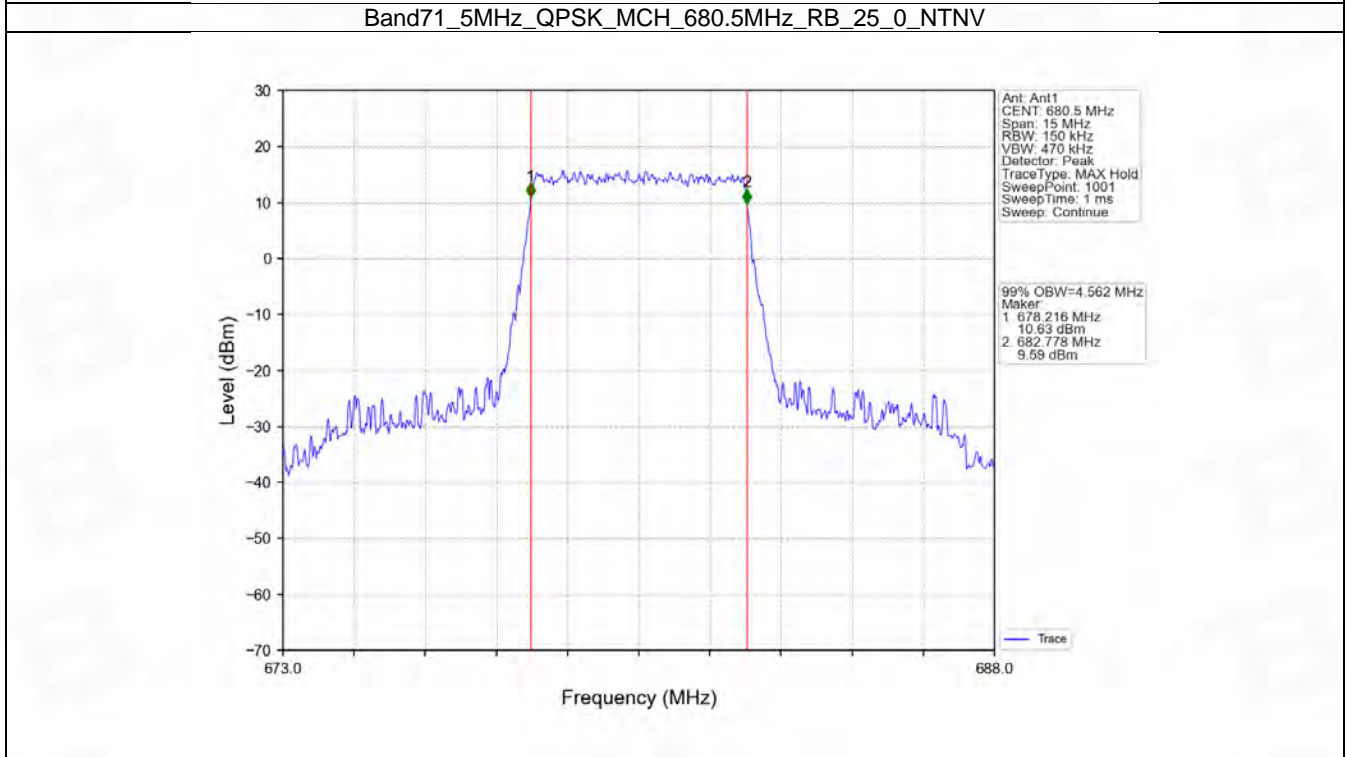
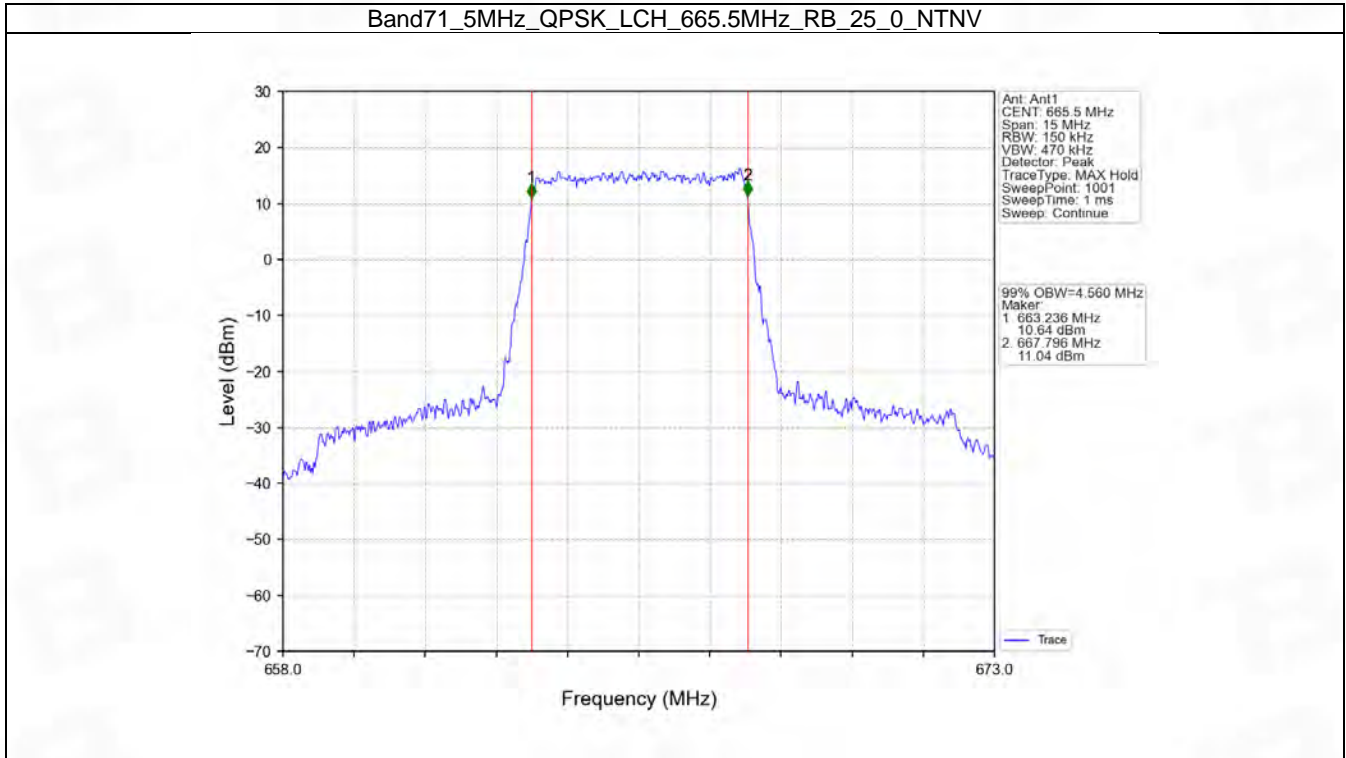
4. 99% & 26dB Bandwidth

4.1 Band71\_OBW

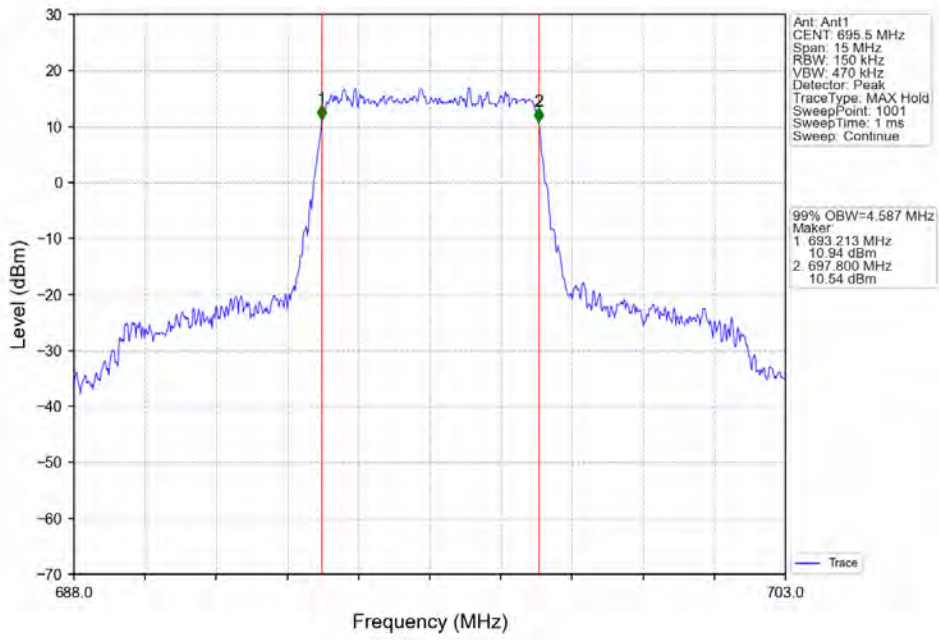
4.1.1 Test Result

Band: 71 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	4.560	/	Pass
		680.5	25	0	4.562	/	Pass
		695.5	25	0	4.587	/	Pass
	16QAM	665.5	25	0	4.581	/	Pass
		680.5	25	0	4.567	/	Pass
		695.5	25	0	4.560	/	Pass
10	QPSK	668	50	0	9.042	/	Pass
		680.5	50	0	9.058	/	Pass
		693	50	0	9.086	/	Pass
	16QAM	668	50	0	9.057	/	Pass
		680.5	50	0	9.068	/	Pass
		693	50	0	9.064	/	Pass
15	QPSK	670.5	75	0	13.620	/	Pass
		680.5	75	0	13.562	/	Pass
		690.5	75	0	13.634	/	Pass
	16QAM	670.5	75	0	13.627	/	Pass
		680.5	75	0	13.570	/	Pass
		690.5	75	0	13.621	/	Pass
20	QPSK	673	100	0	18.137	/	Pass
		683	100	0	18.122	/	Pass
		688	100	0	18.187	/	Pass
	16QAM	673	100	0	18.149	/	Pass
		683	100	0	18.118	/	Pass
		688	100	0	18.242	/	Pass

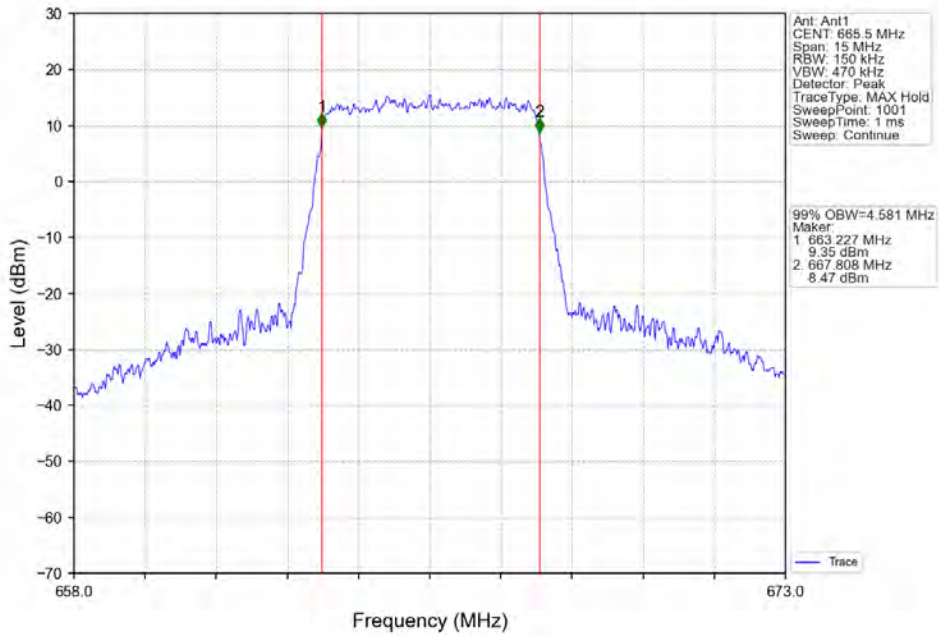
4.1.2 Test Graph

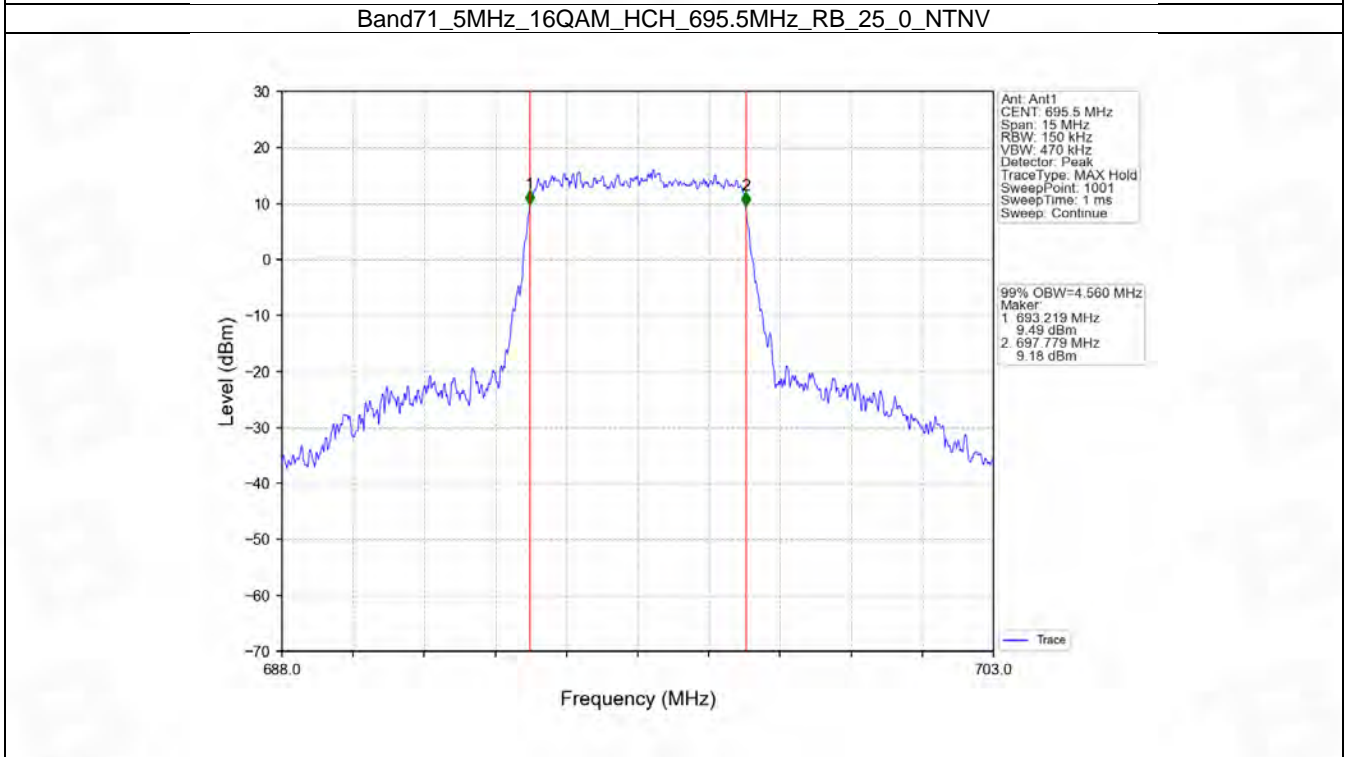
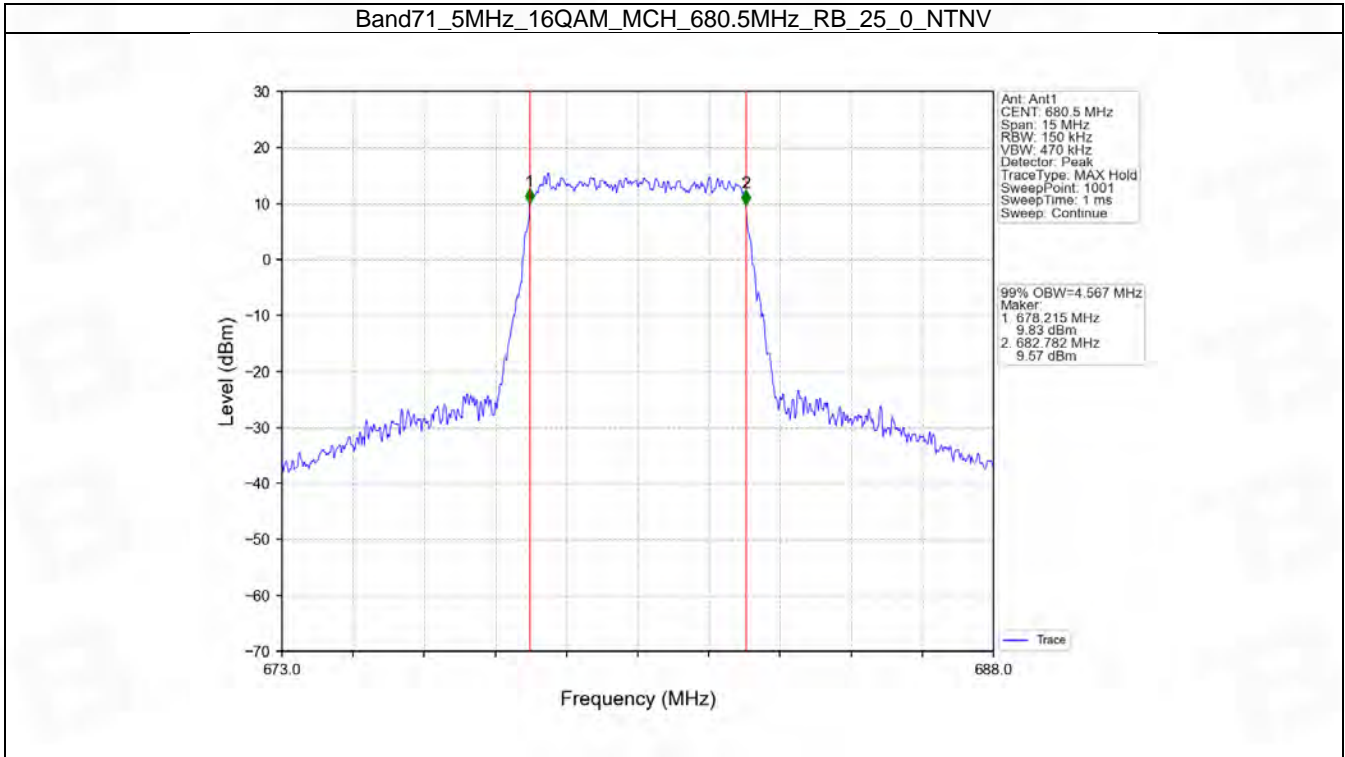


Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV

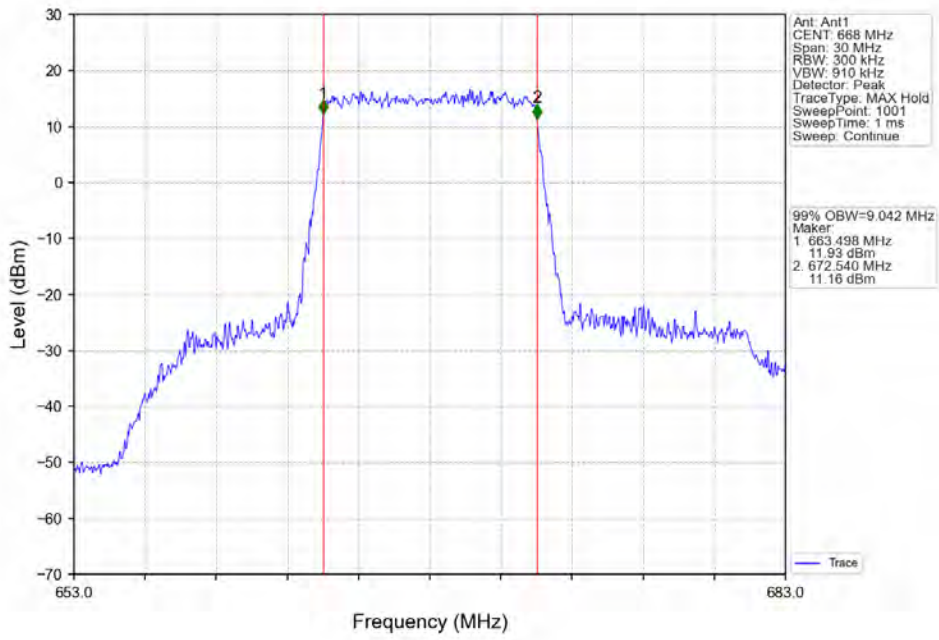


Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV

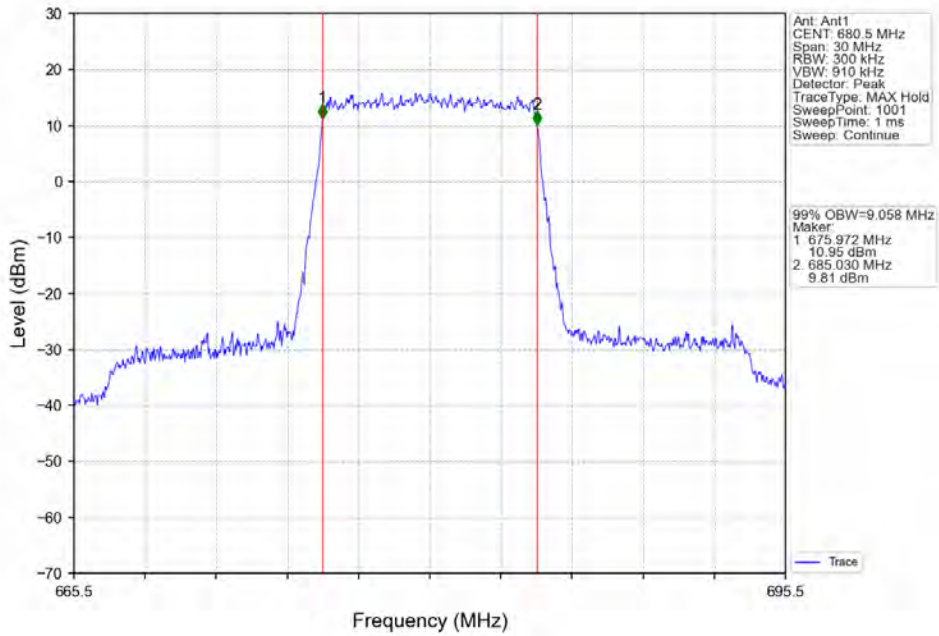




Band71\_10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV

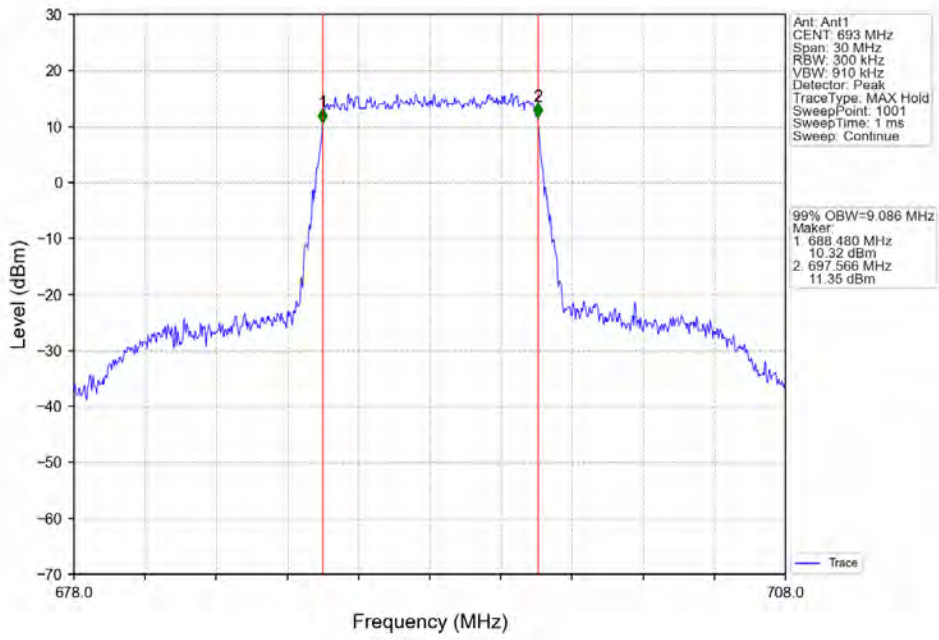


Band71\_10MHz\_QPSK\_MCH\_680.5MHz\_RB\_50\_0\_NTNV

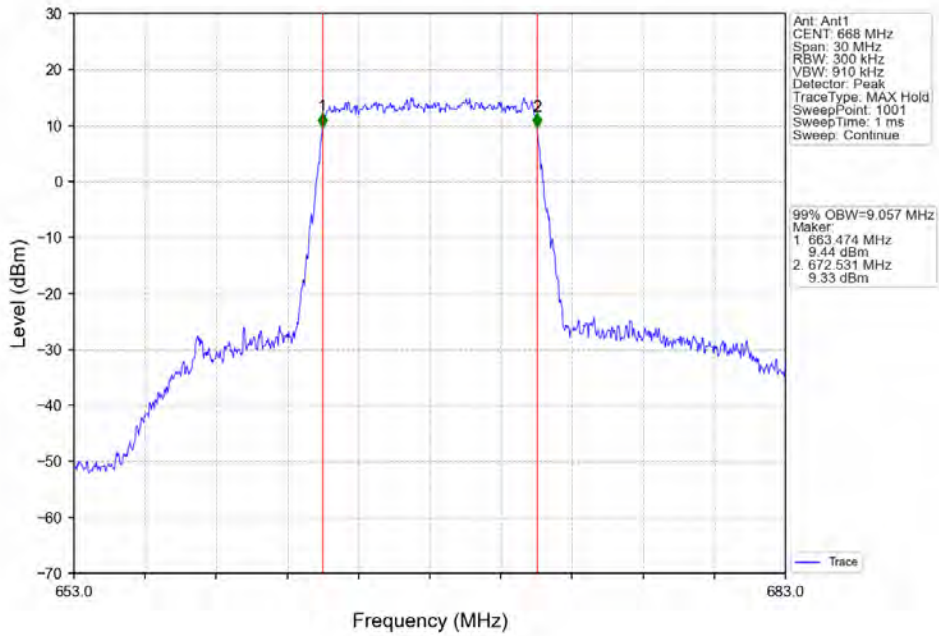




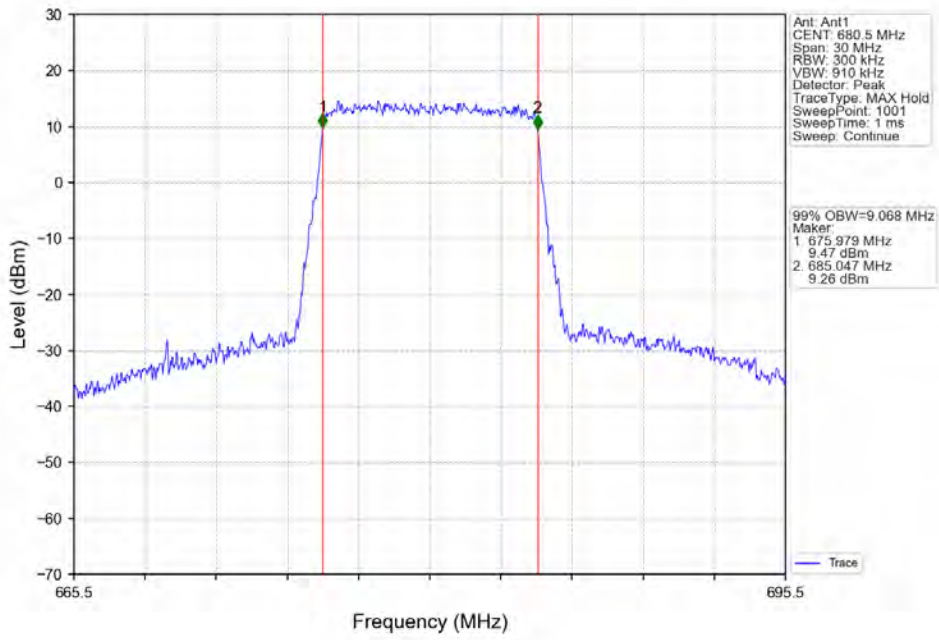
Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



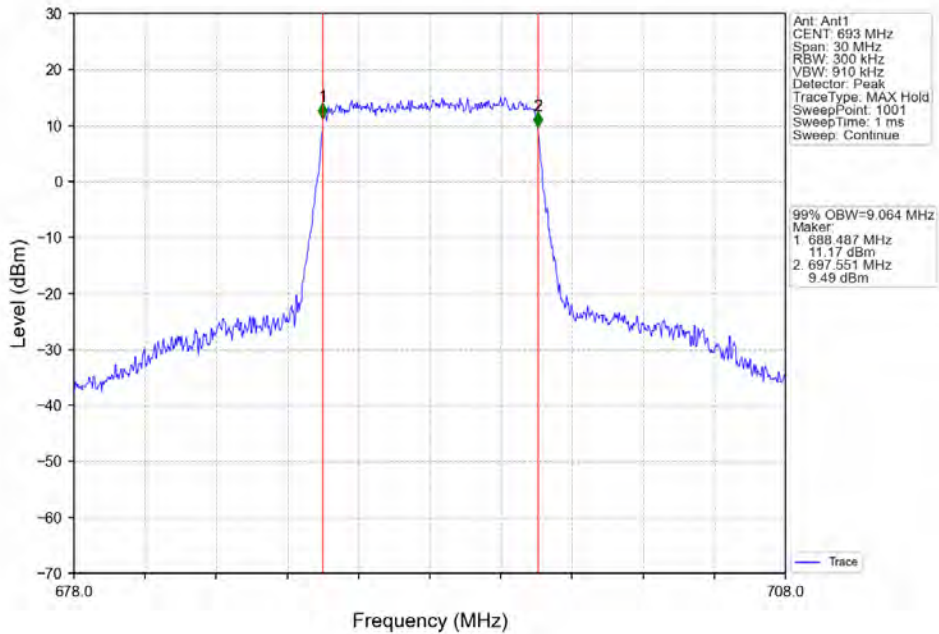
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV

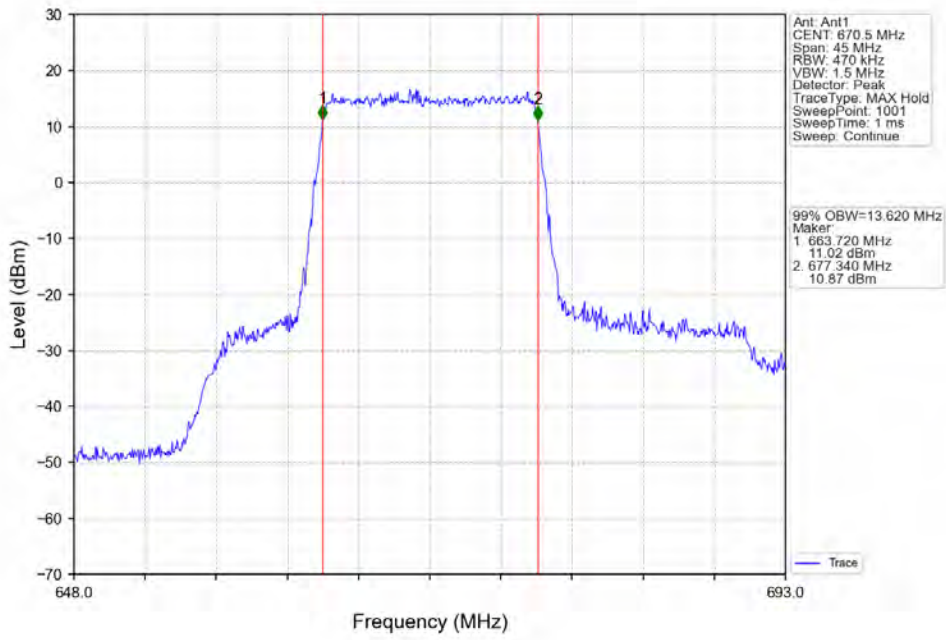


Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV

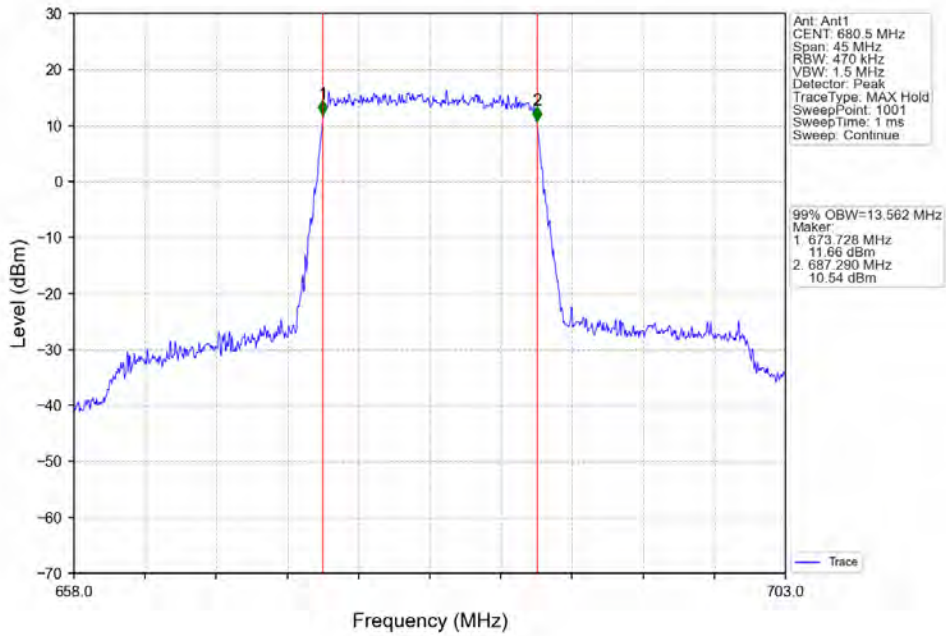




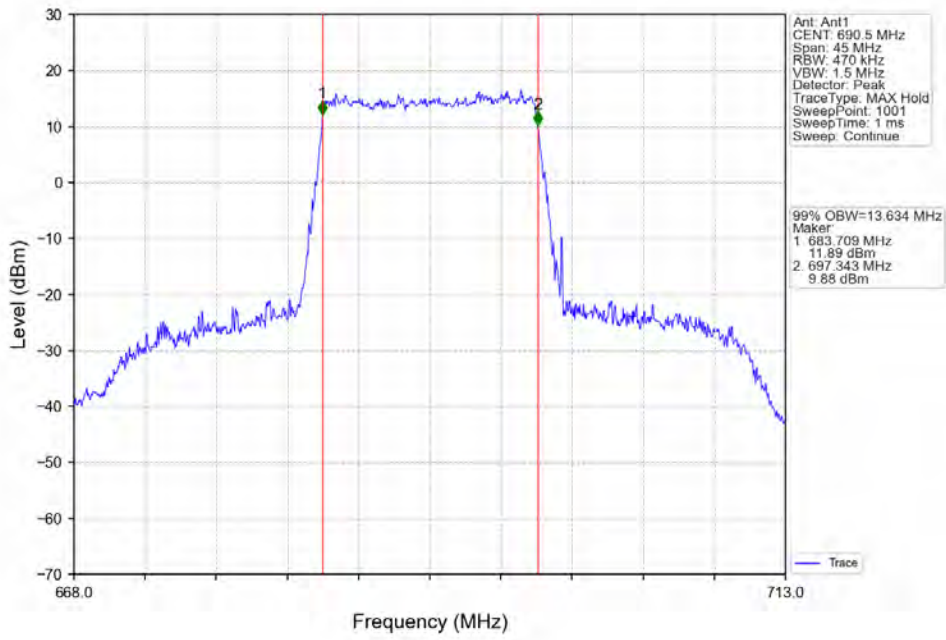
Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



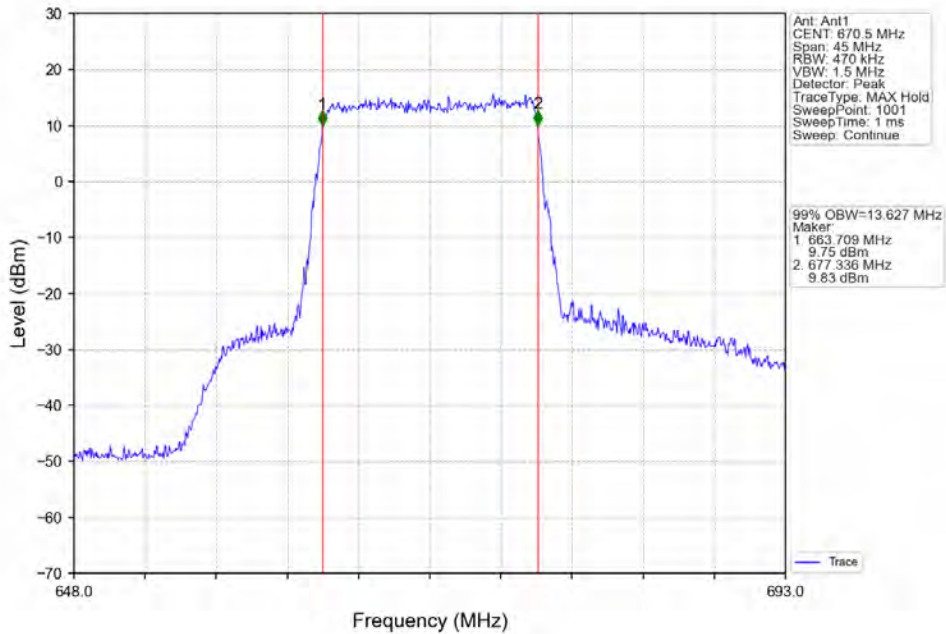
Band71\_15MHz\_QPSK\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



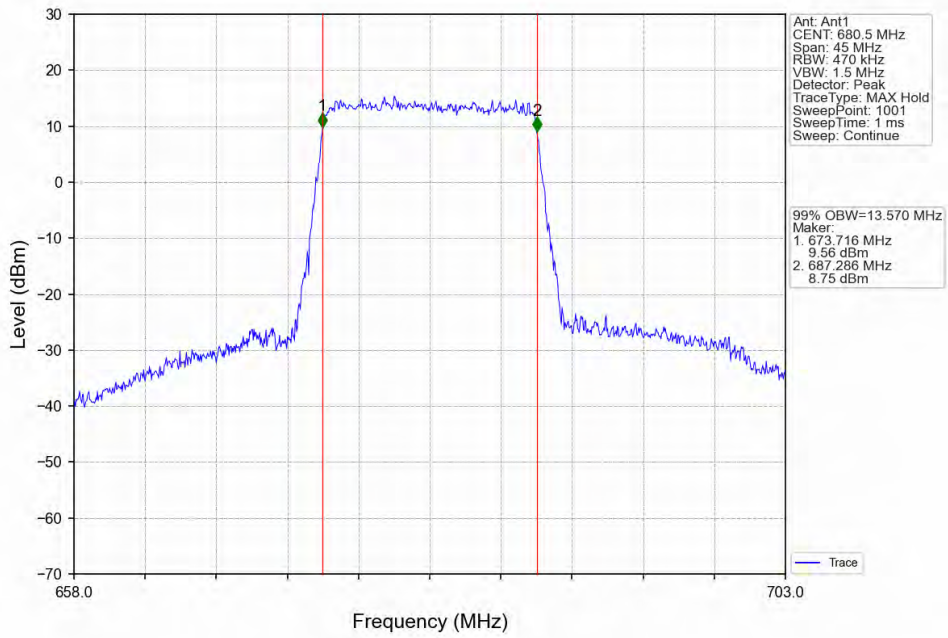
Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



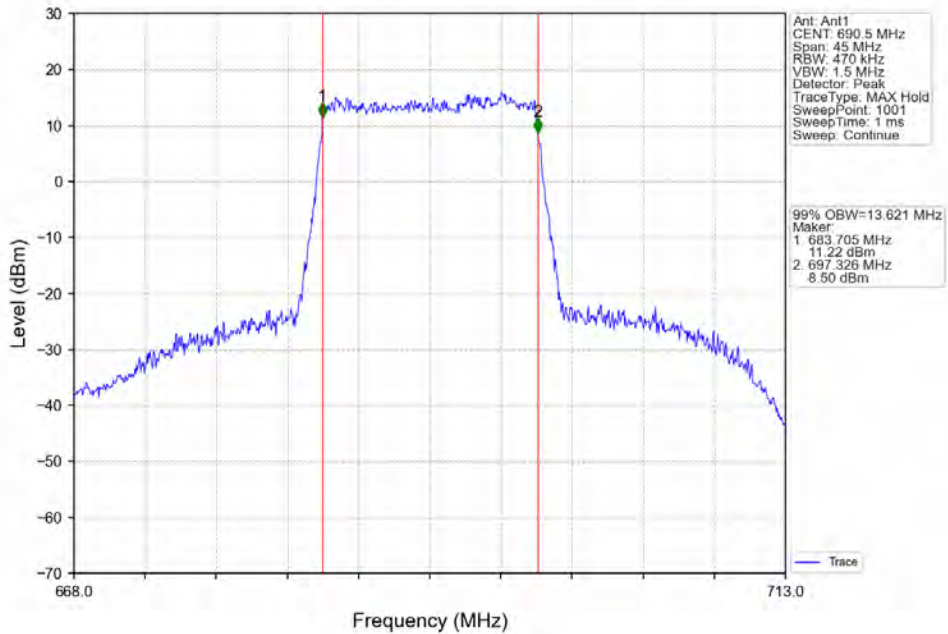
Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



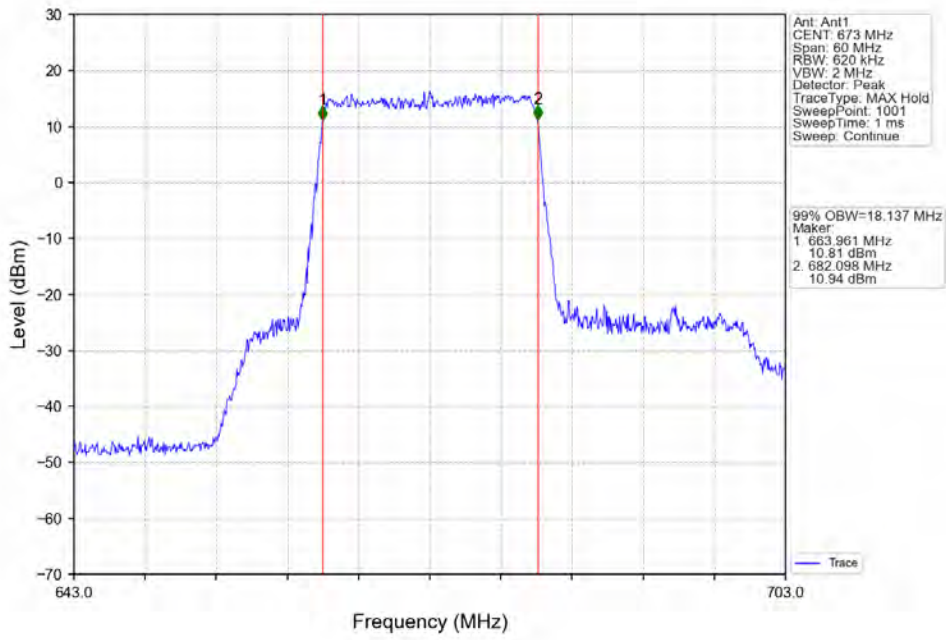
Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



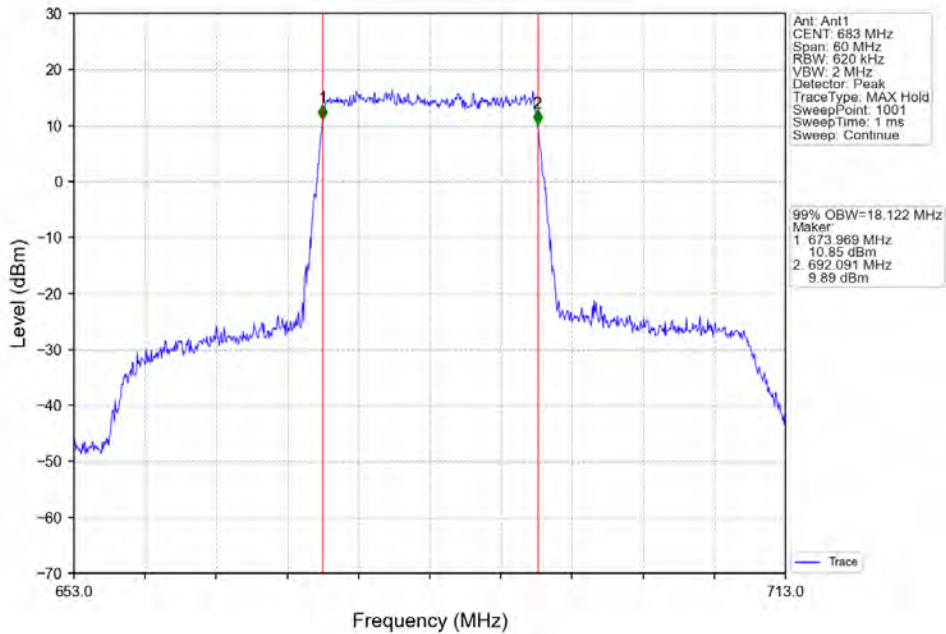
Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



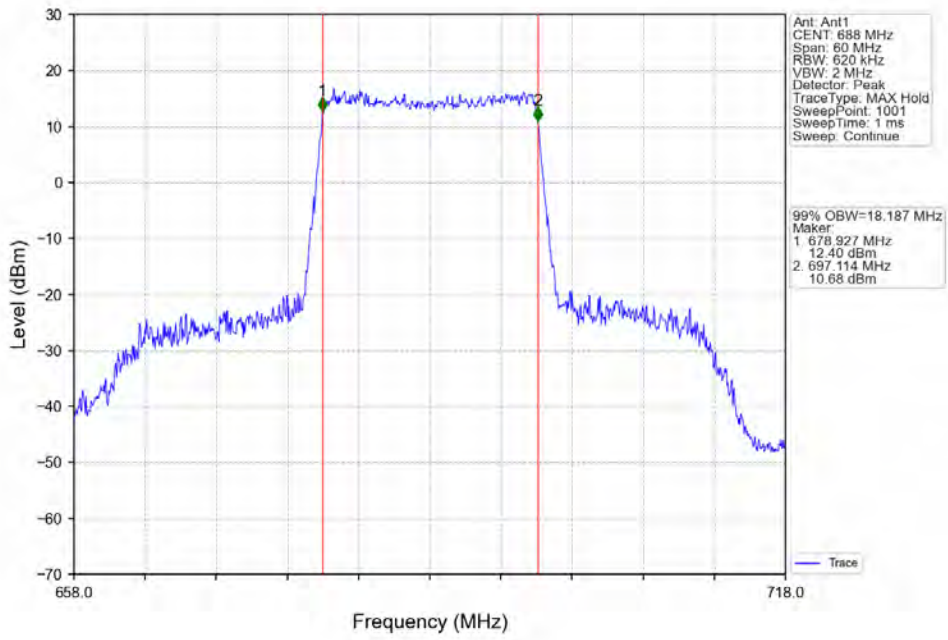
Band71\_20MHz\_QPSK\_LCH\_673MHz\_RB\_100\_0\_NTNV



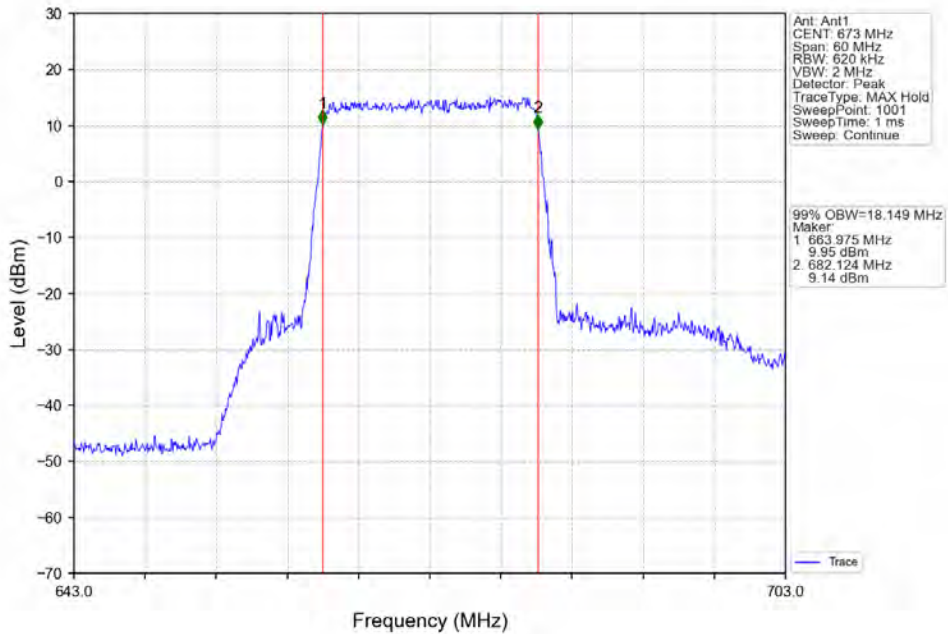
Band71\_20MHz\_QPSK\_MCH\_683MHz\_RB\_100\_0\_NTNV



Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV

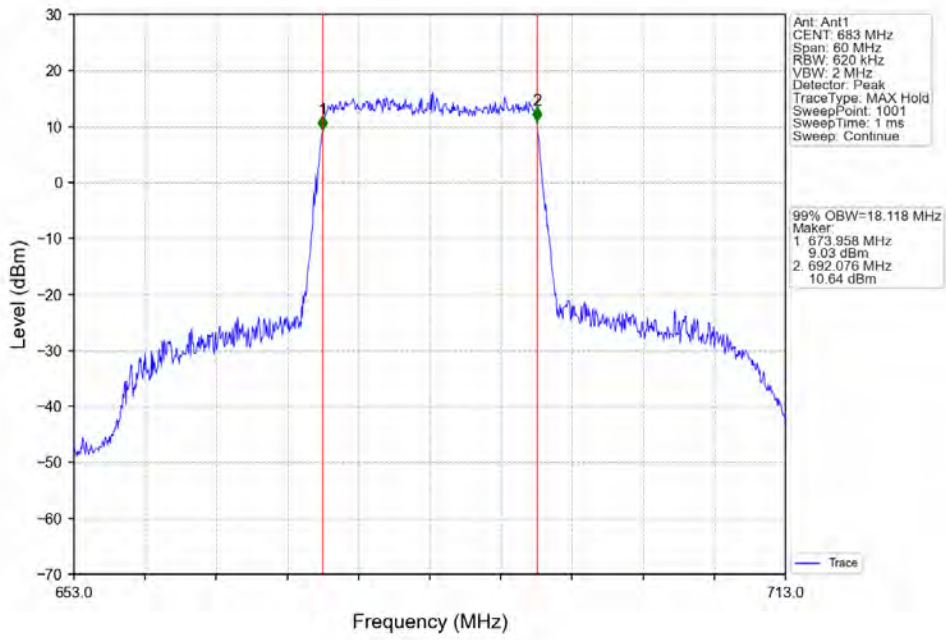


Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV

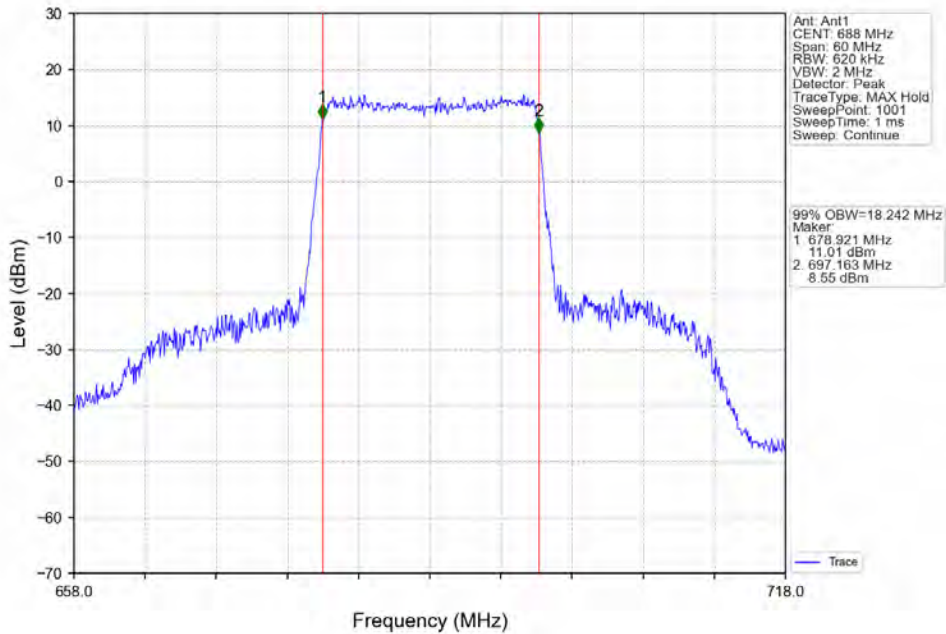




Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV



Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV

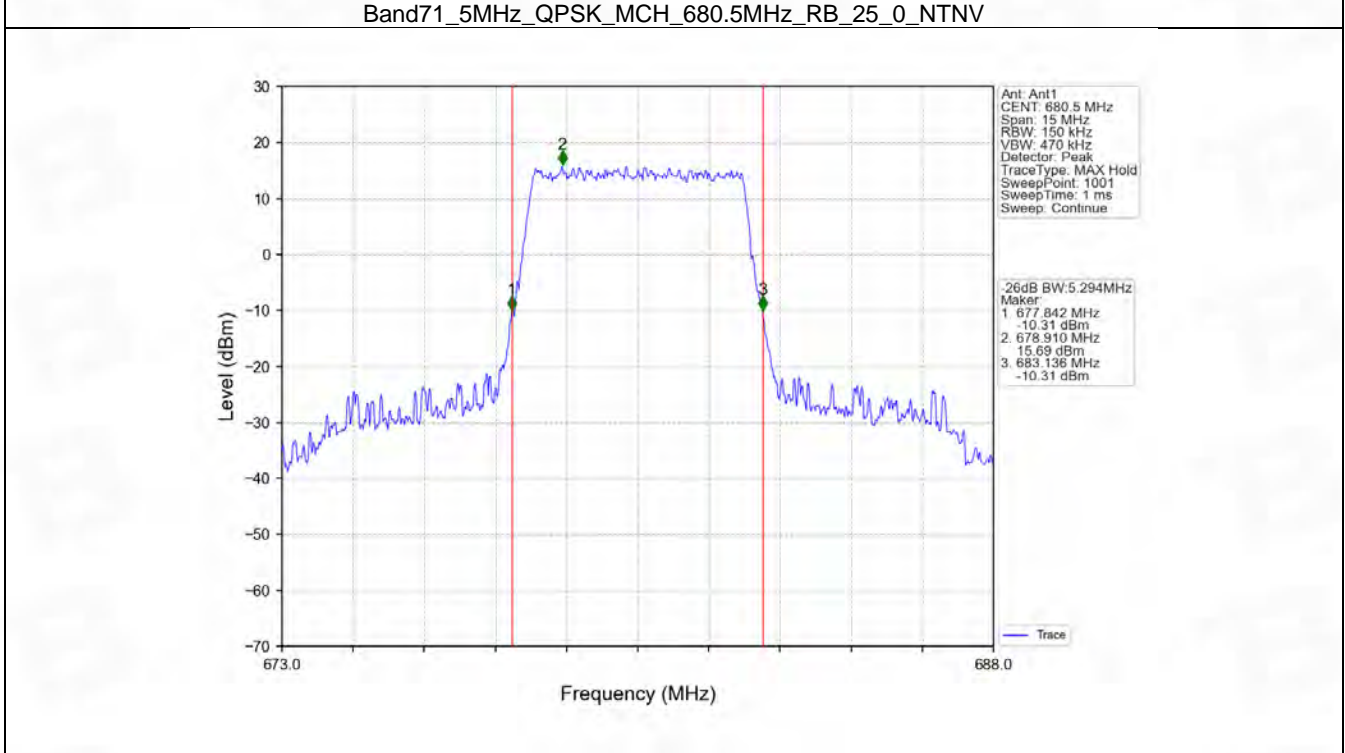
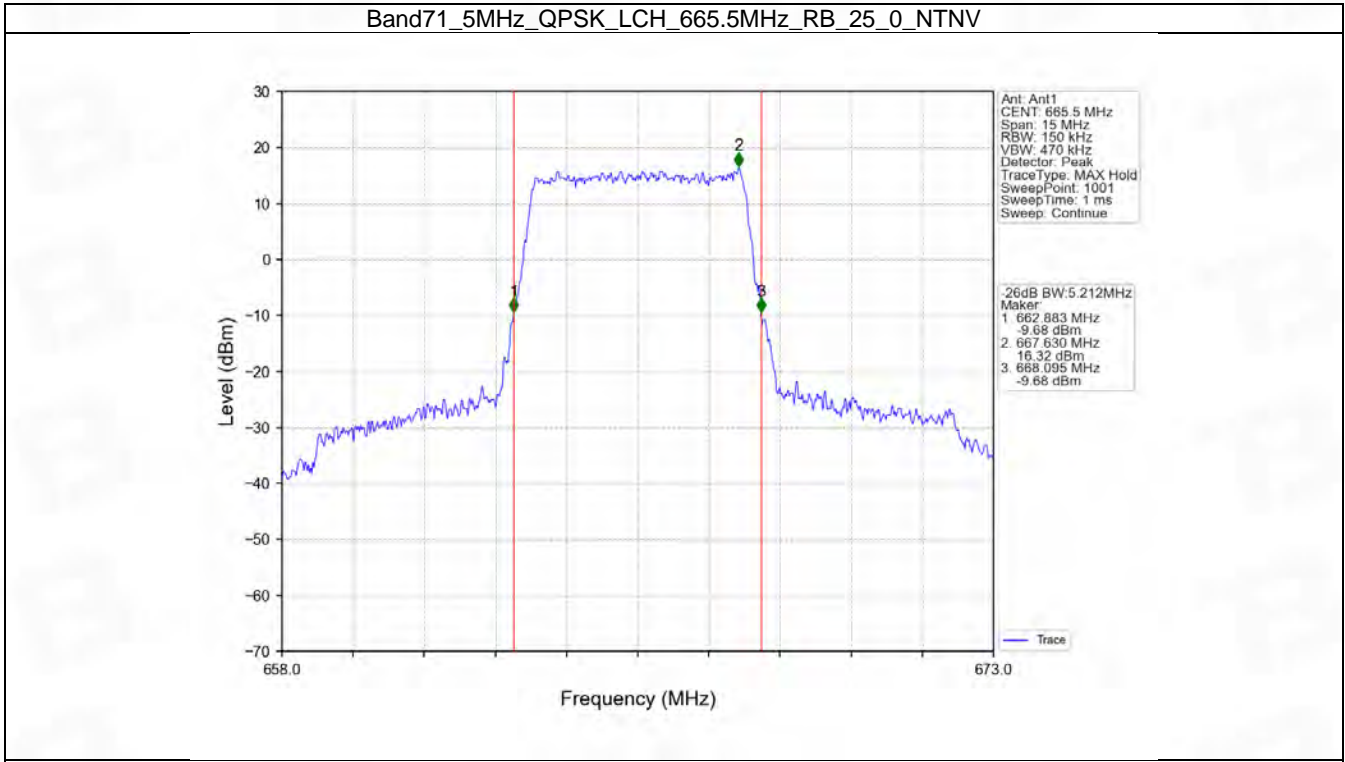


4.2 Band71\_XDB

4.2.1 Test Result

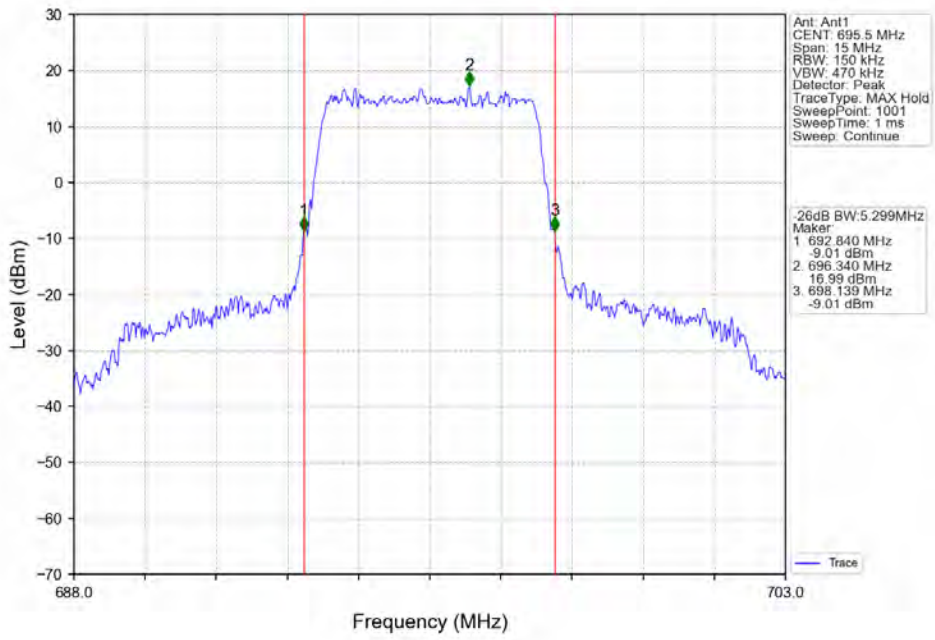
Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	5.212	/	Pass
		680.5	25	0	5.294	/	Pass
		695.5	25	0	5.299	/	Pass
	16QAM	665.5	25	0	5.272	/	Pass
		680.5	25	0	5.282	/	Pass
		695.5	25	0	5.278	/	Pass
10	QPSK	668	50	0	10.242	/	Pass
		680.5	50	0	10.209	/	Pass
		693	50	0	10.269	/	Pass
	16QAM	668	50	0	10.294	/	Pass
		680.5	50	0	10.310	/	Pass
		693	50	0	10.227	/	Pass
15	QPSK	670.5	75	0	15.296	/	Pass
		680.5	75	0	15.354	/	Pass
		690.5	75	0	15.344	/	Pass
	16QAM	670.5	75	0	15.223	/	Pass
		680.5	75	0	15.237	/	Pass
		690.5	75	0	15.311	/	Pass
20	QPSK	673	100	0	20.184	/	Pass
		683	100	0	20.089	/	Pass
		688	100	0	20.187	/	Pass
	16QAM	673	100	0	20.306	/	Pass
		683	100	0	20.088	/	Pass
		688	100	0	20.203	/	Pass

4.2.2 Test Graph

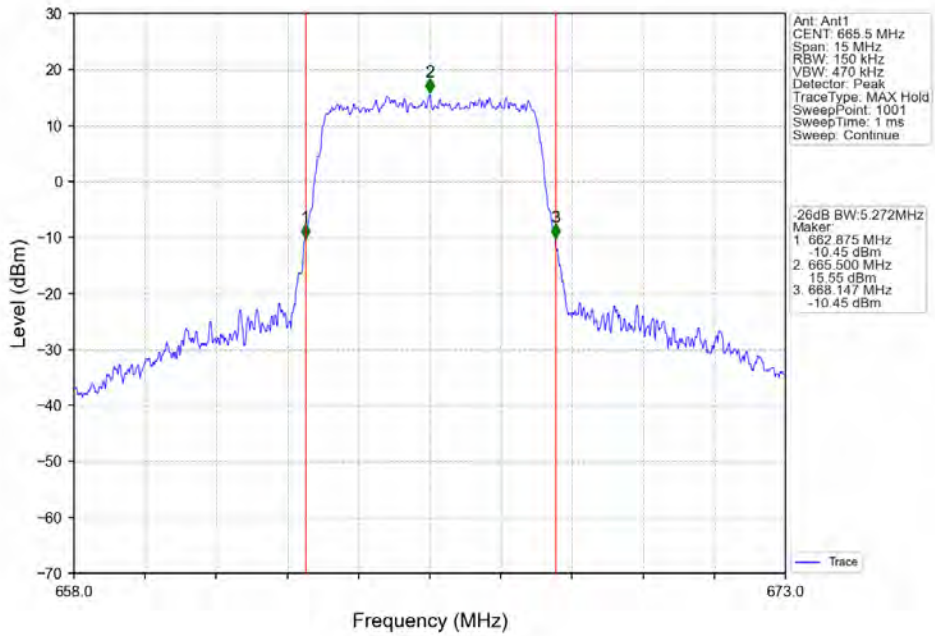




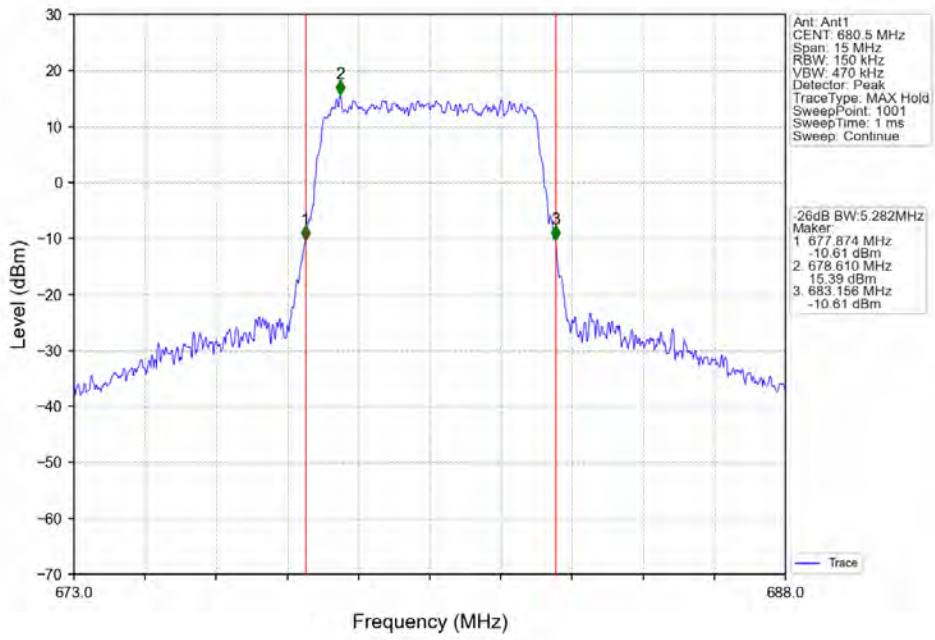
Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



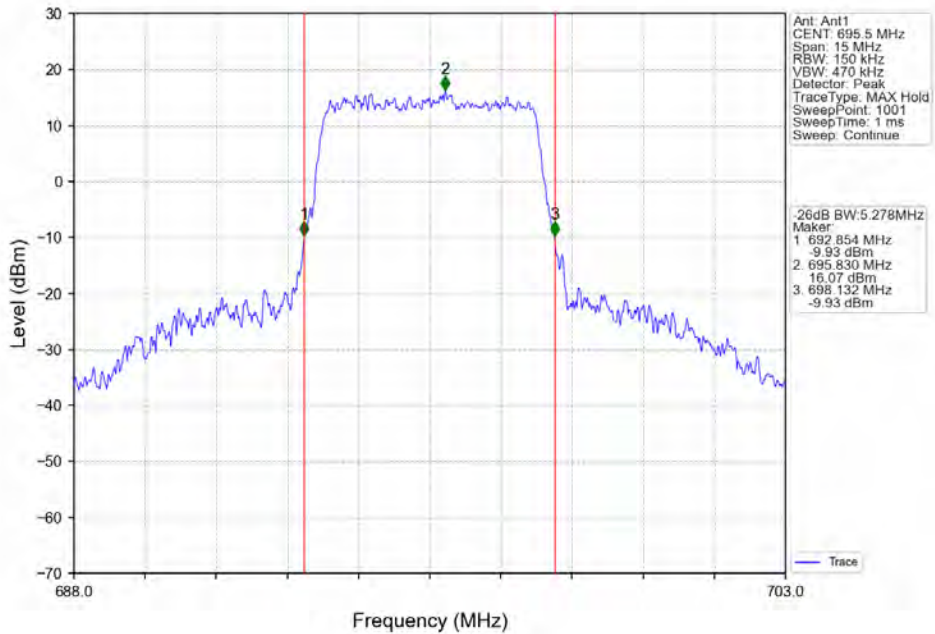
Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



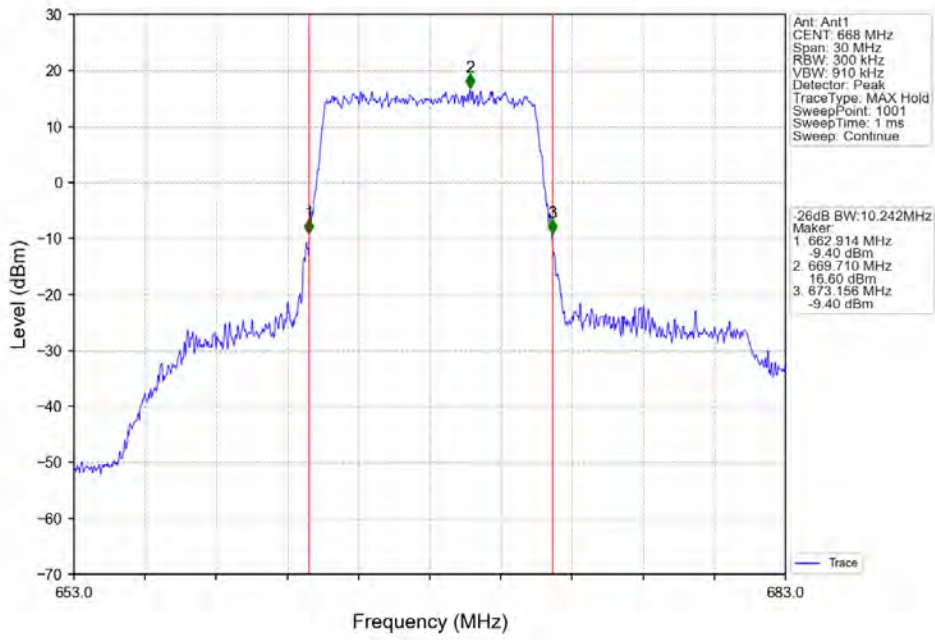
Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV



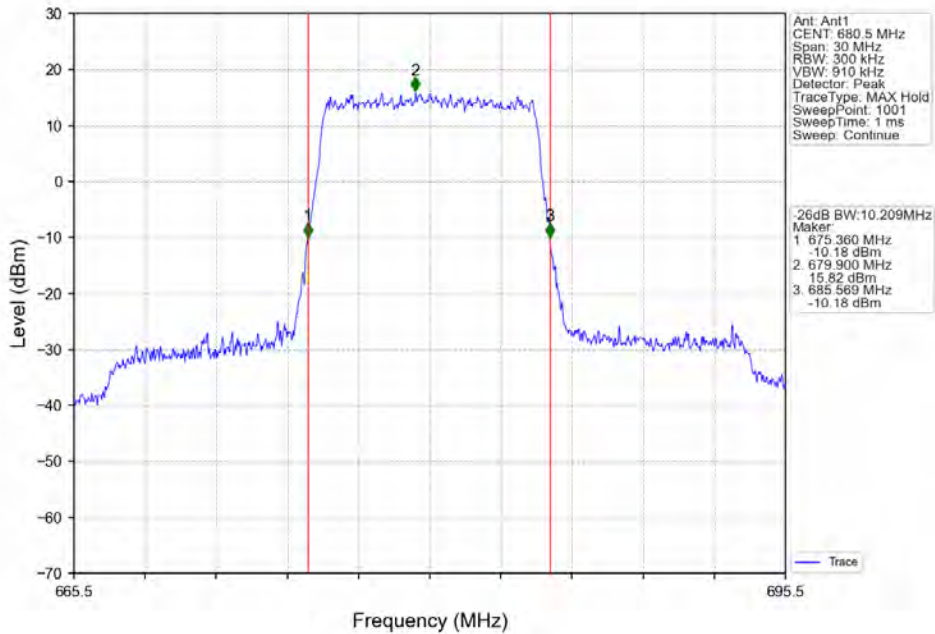
Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



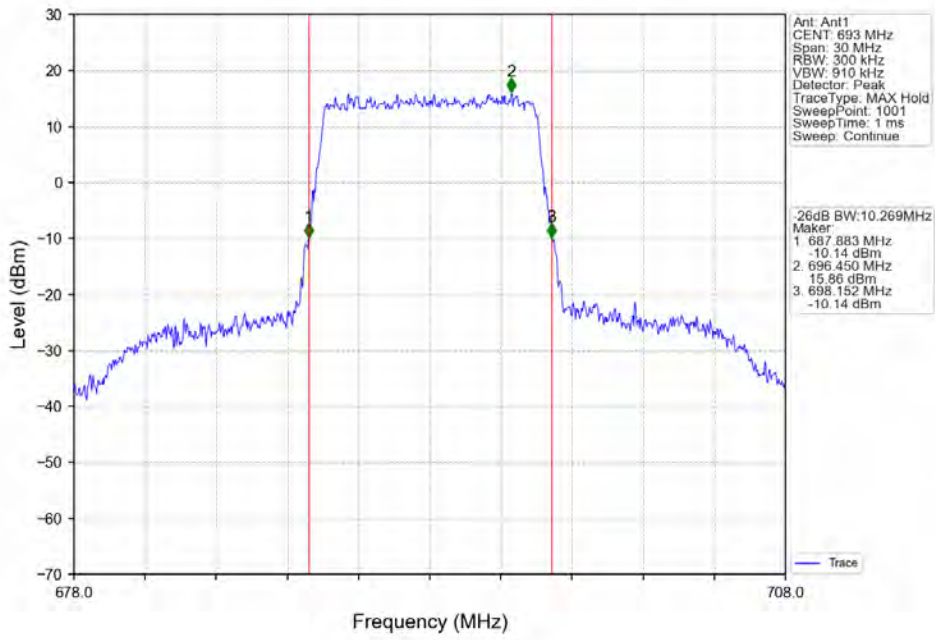
Band71\_10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV



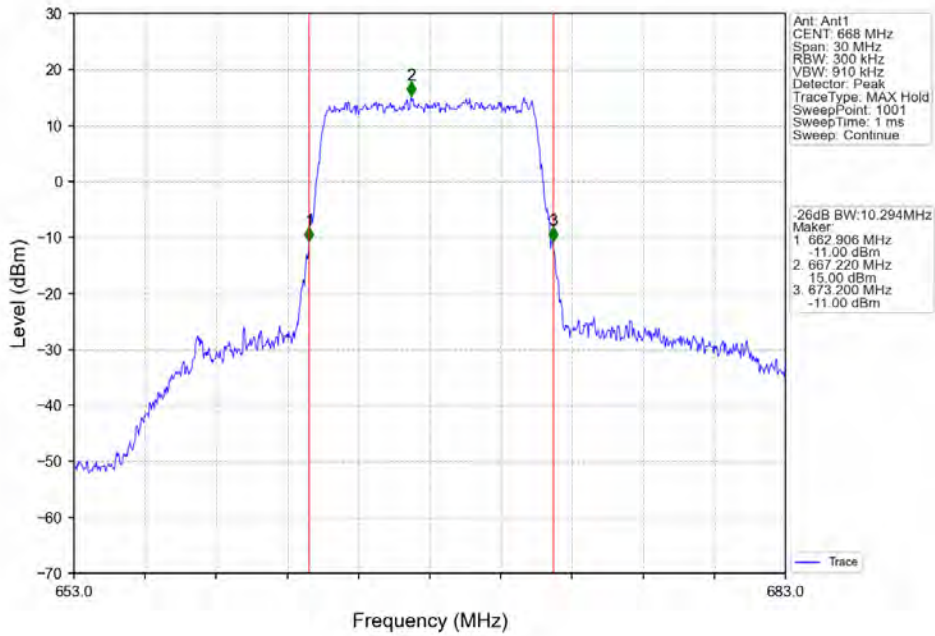
Band71\_10MHz\_QPSK\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



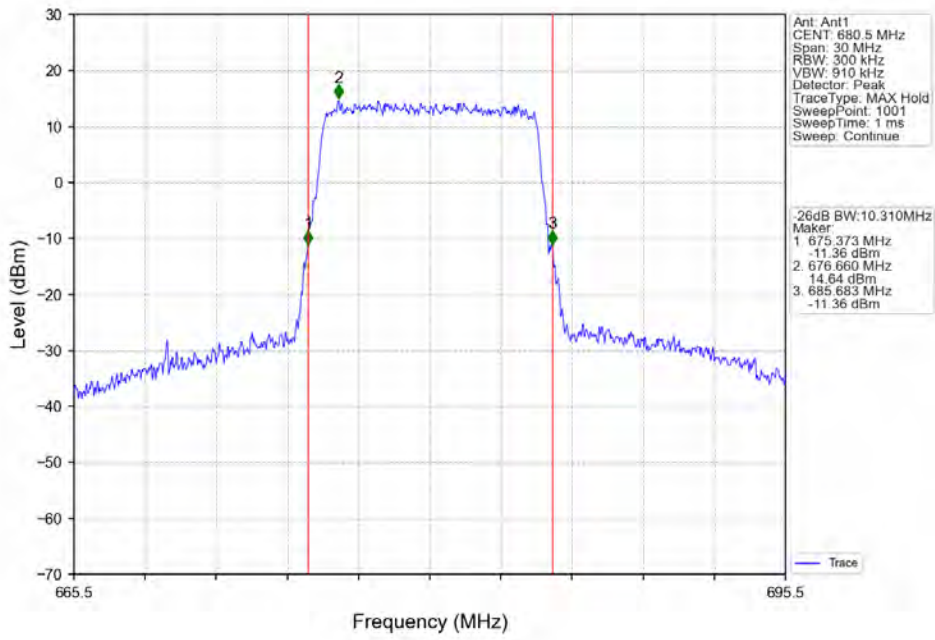
Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



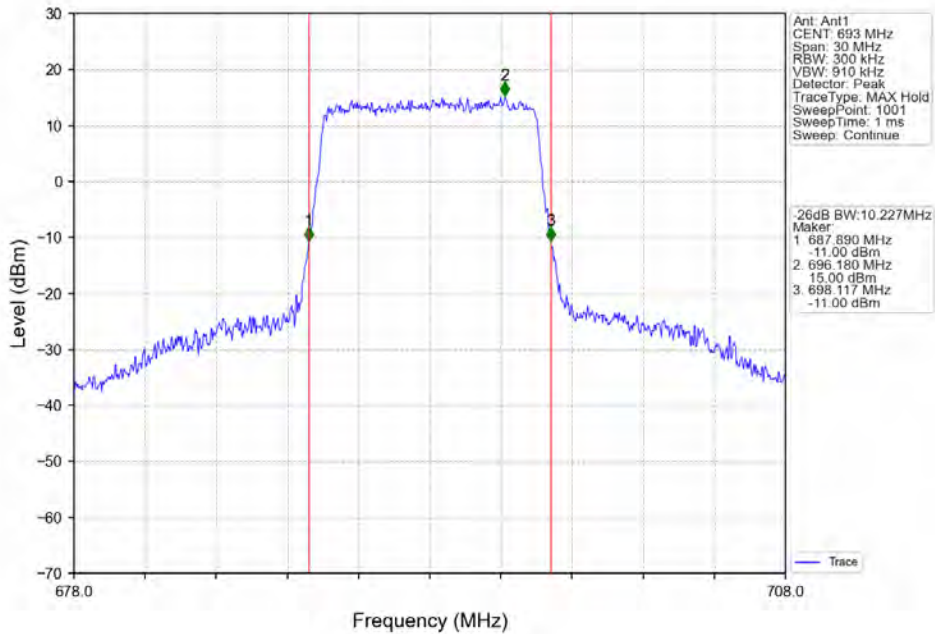
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV

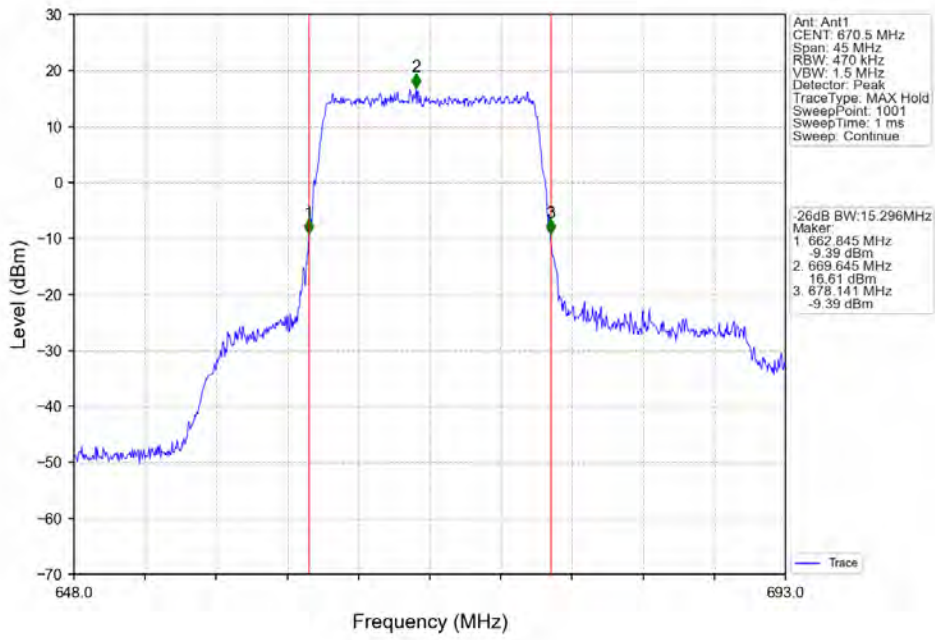


Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV

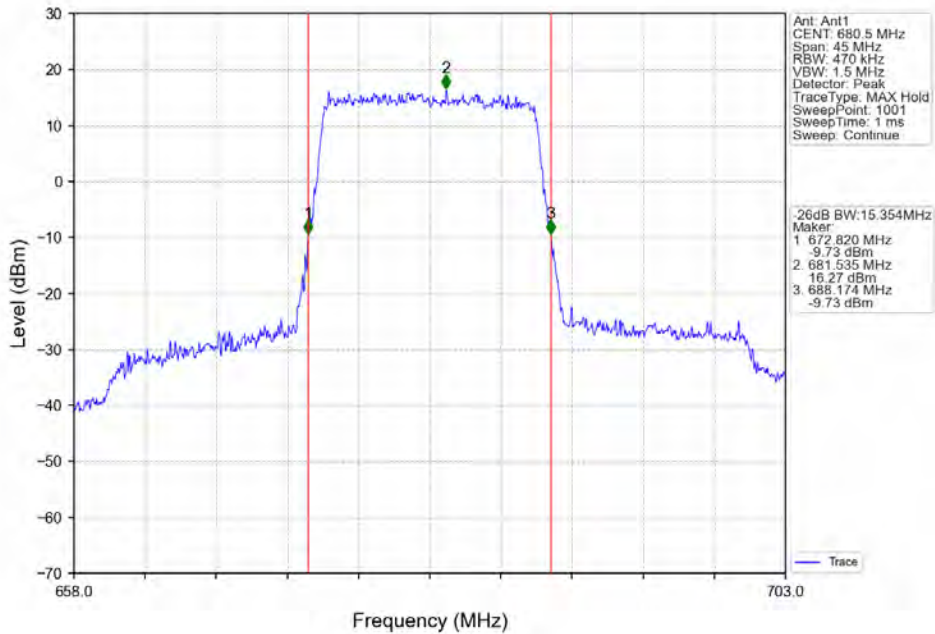




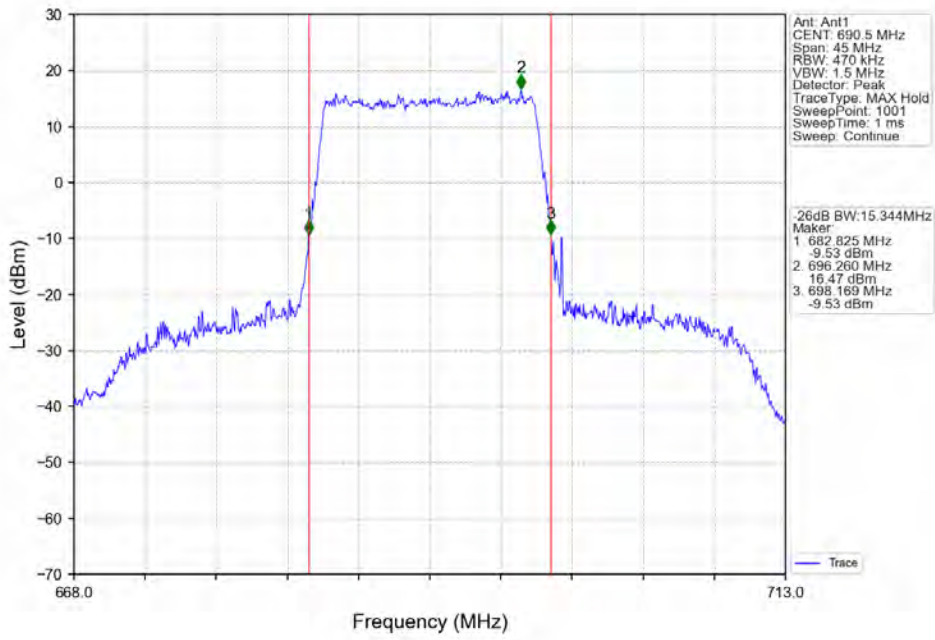
Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



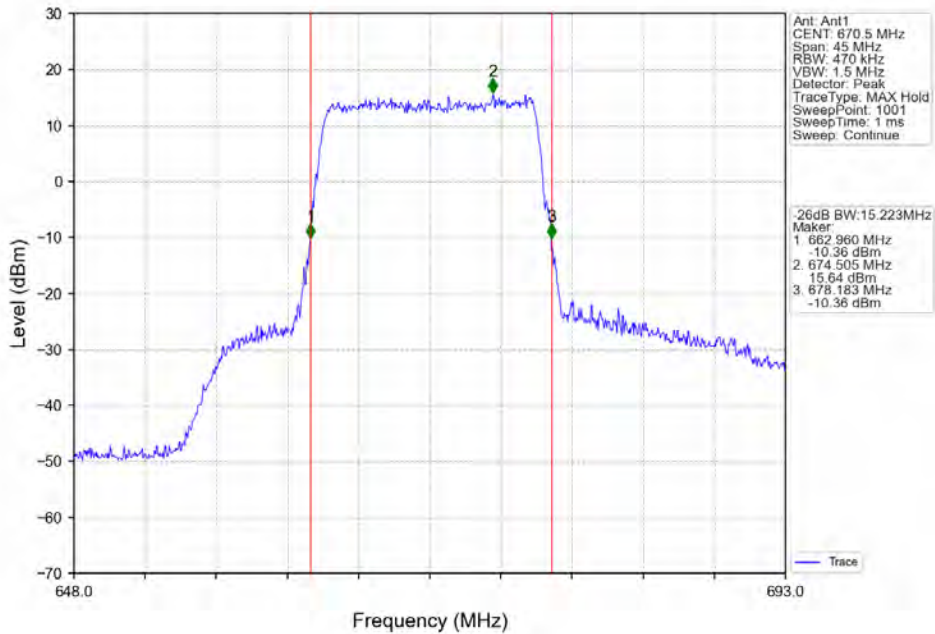
Band71\_15MHz\_QPSK\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



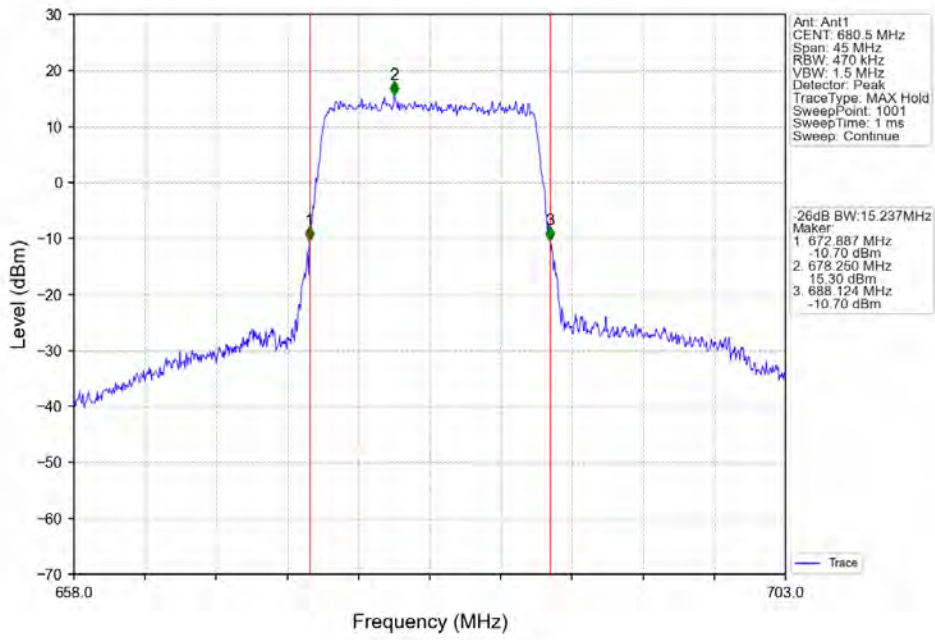
Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



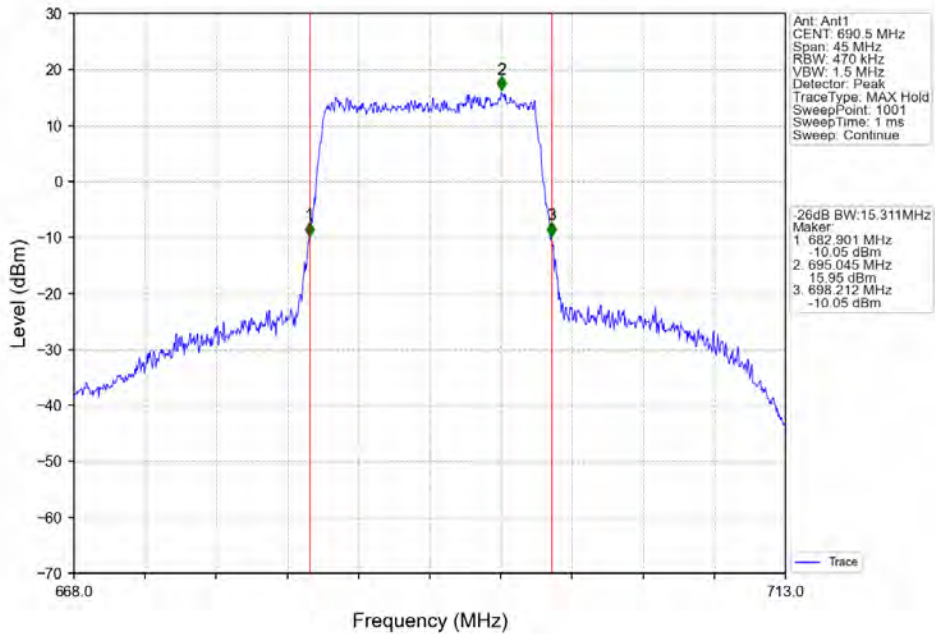
Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV

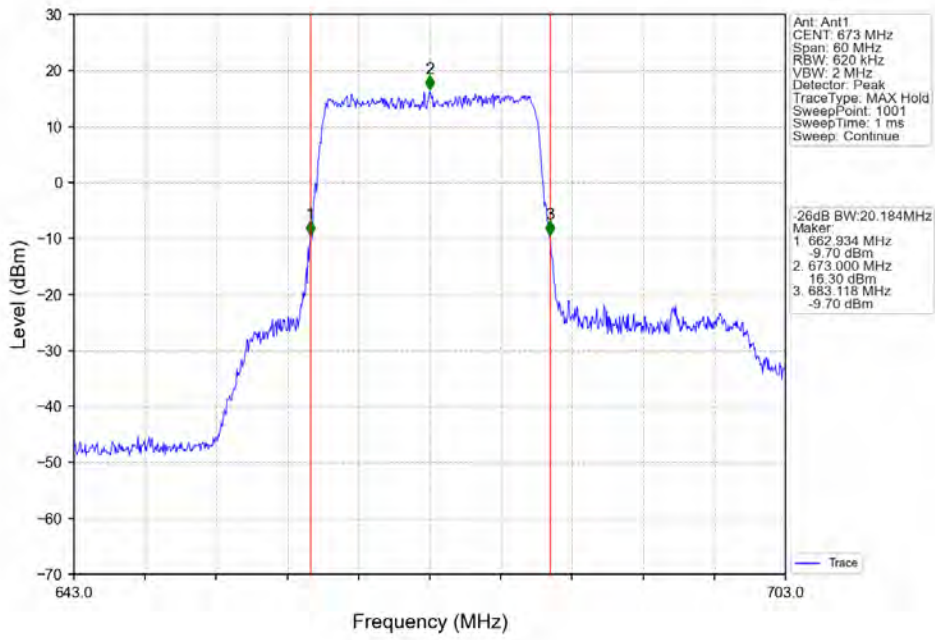


Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV

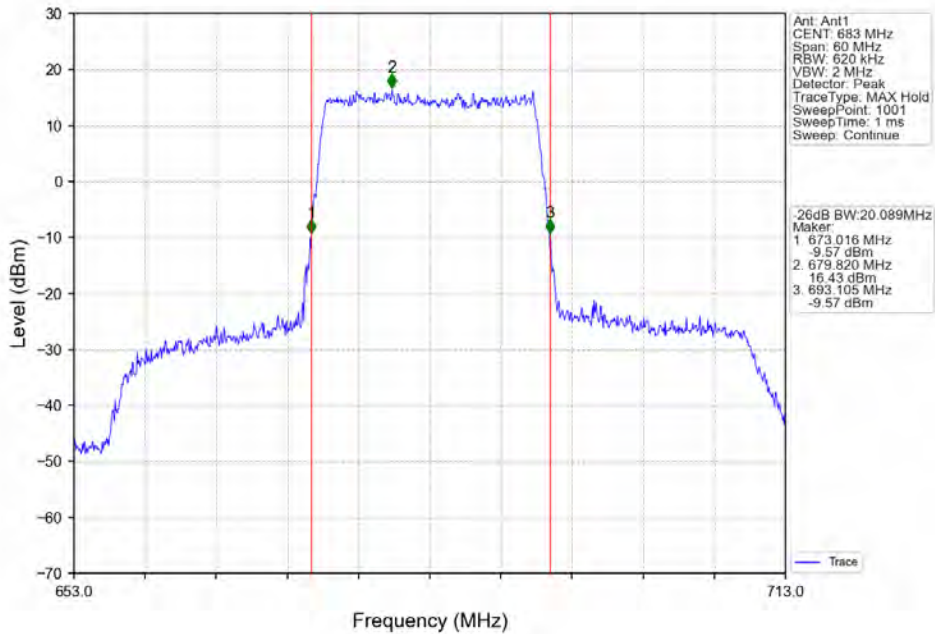




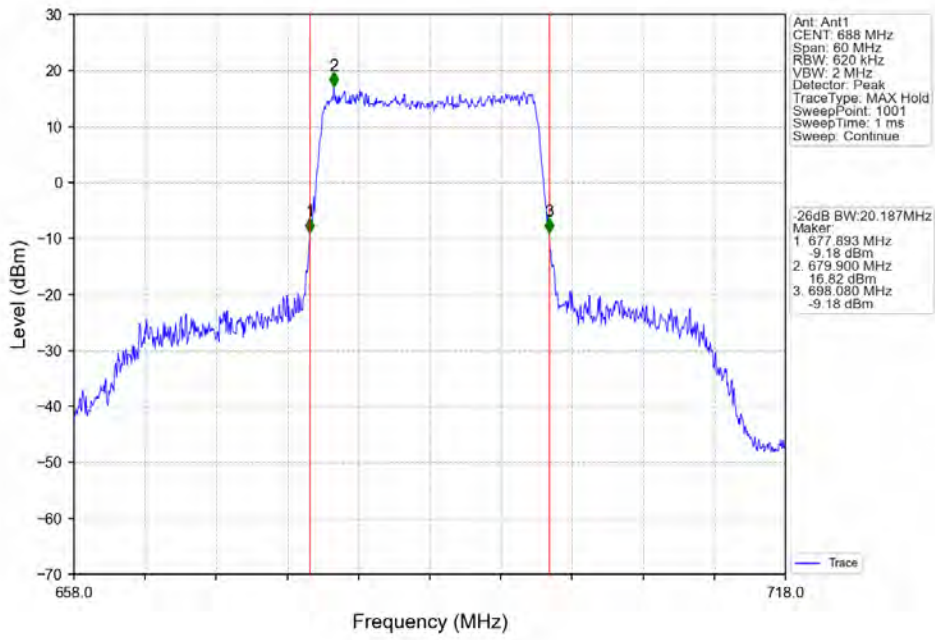
Band71\_20MHz\_QPSK\_LCH\_673MHz\_RB\_100\_0\_NTNV



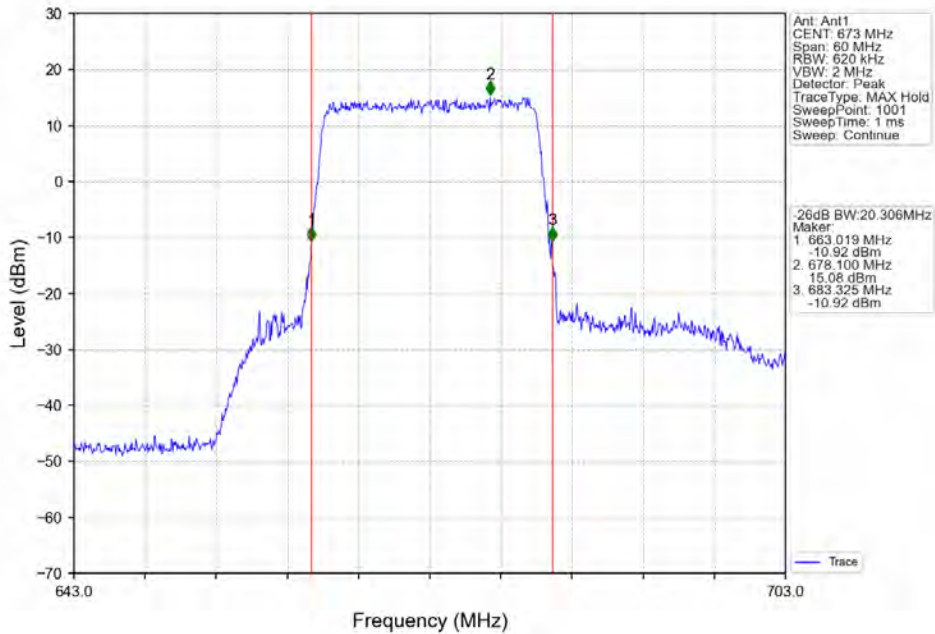
Band71\_20MHz\_QPSK\_MCH\_683MHz\_RB\_100\_0\_NTNV



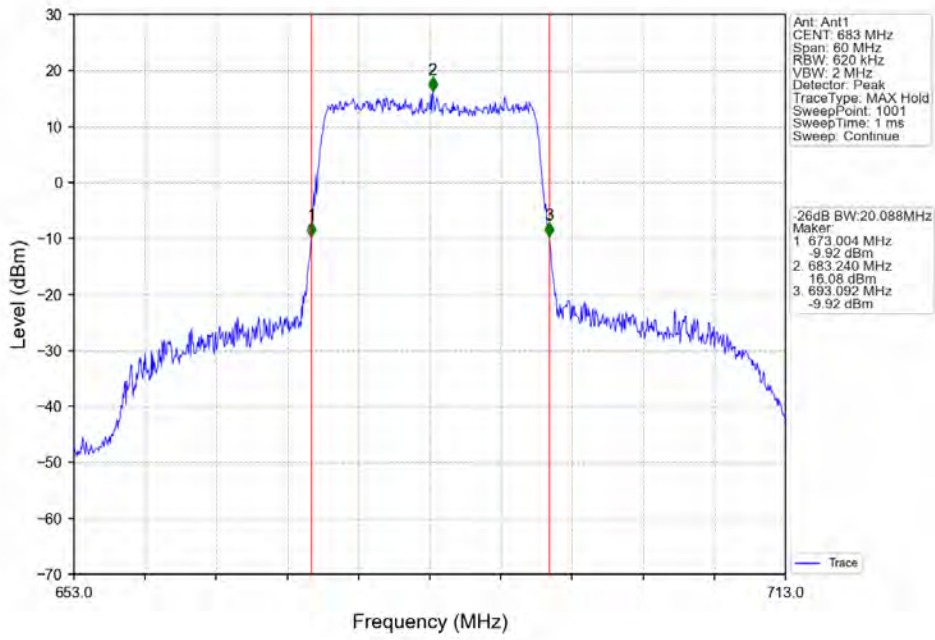
Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



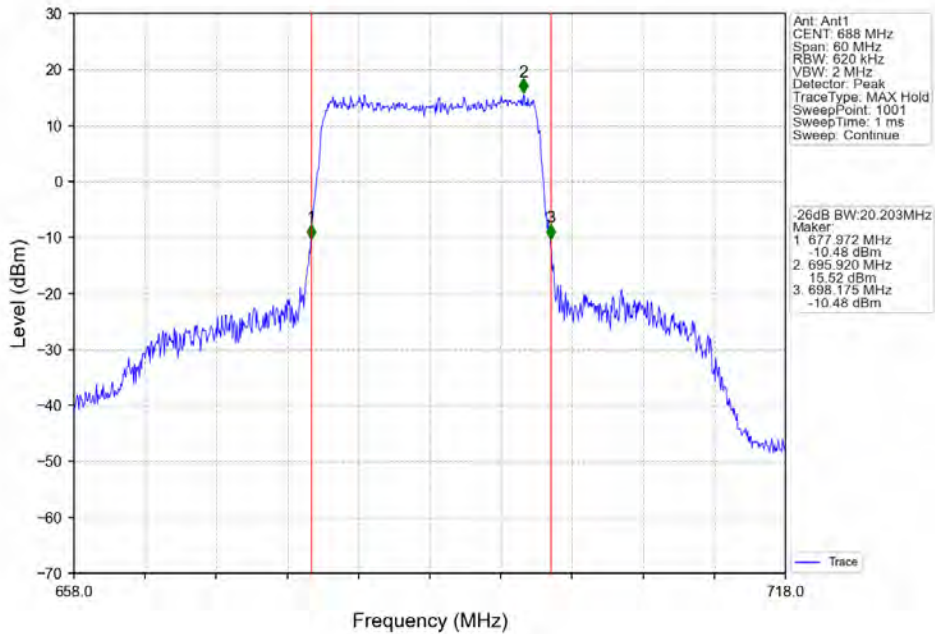
Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV



Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV



Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



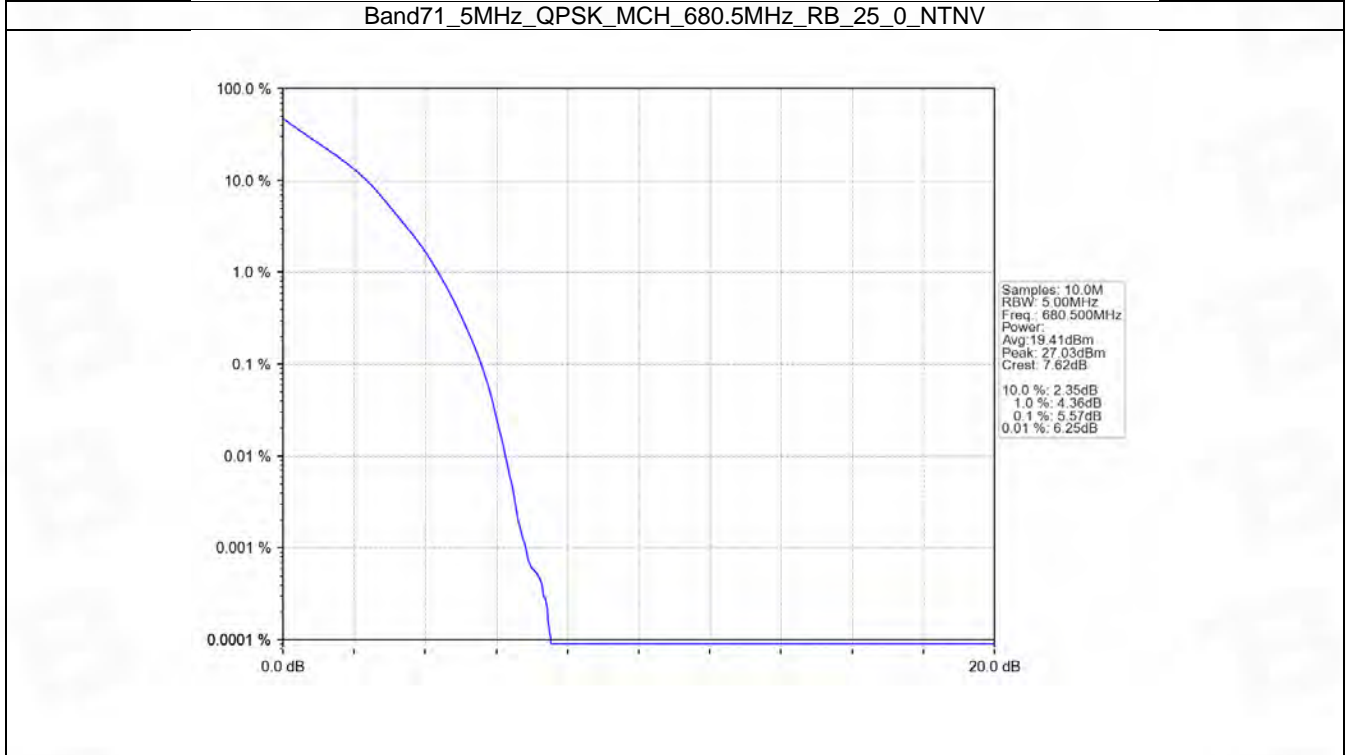
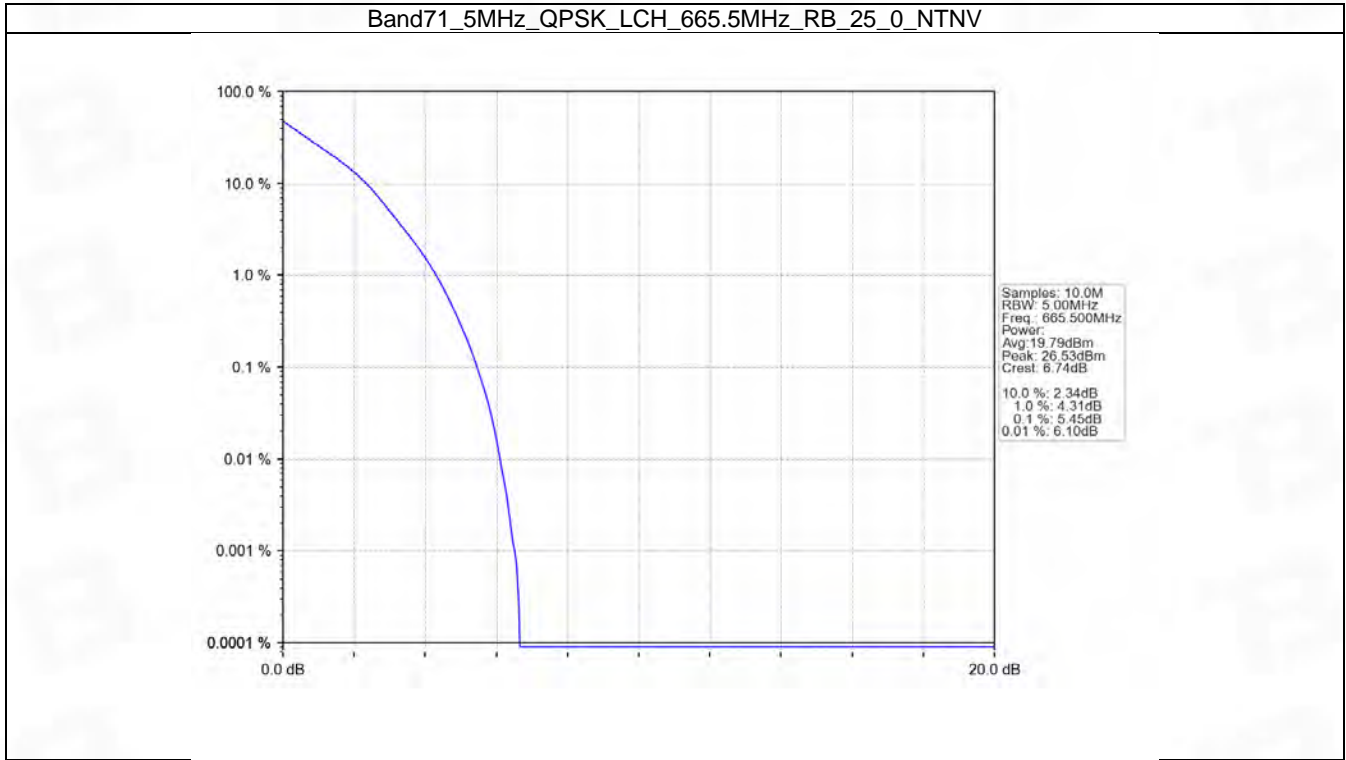
## 5. Peak-Average Ratio

### 5.1 B71\_5MHz

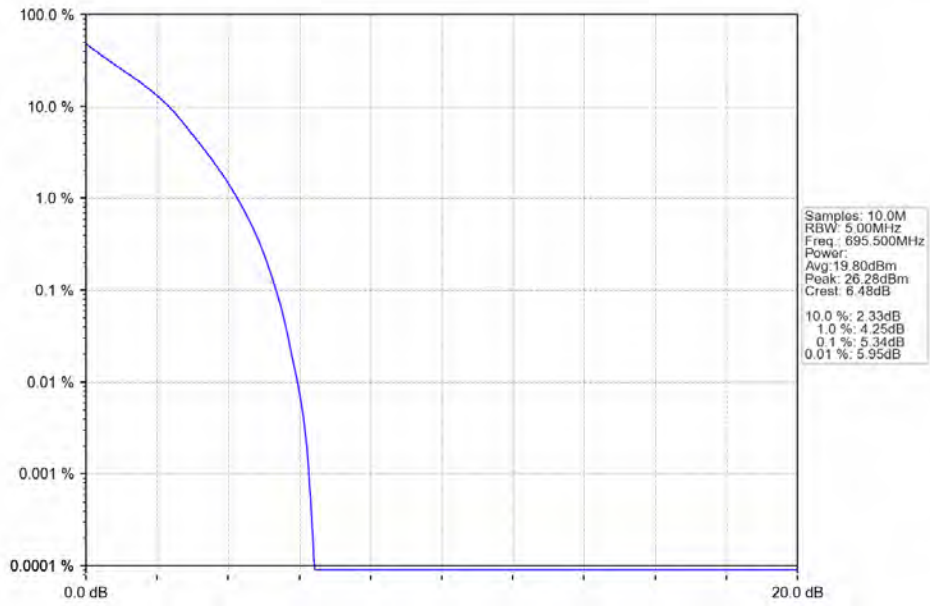
#### 5.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	25	0	5.45	<=13	Pass
	680.5	25	0	5.57	<=13	Pass
	695.5	25	0	5.34	<=13	Pass
16QAM	665.5	25	0	6.18	<=13	Pass
	680.5	25	0	6.23	<=13	Pass
	695.5	25	0	6.01	<=13	Pass

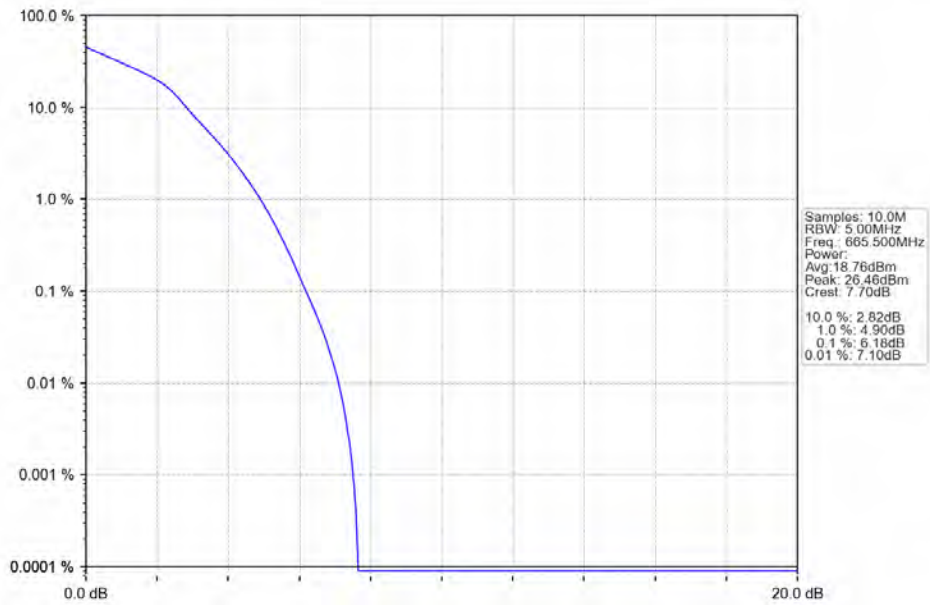
5.1.2 Test Graph



Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV

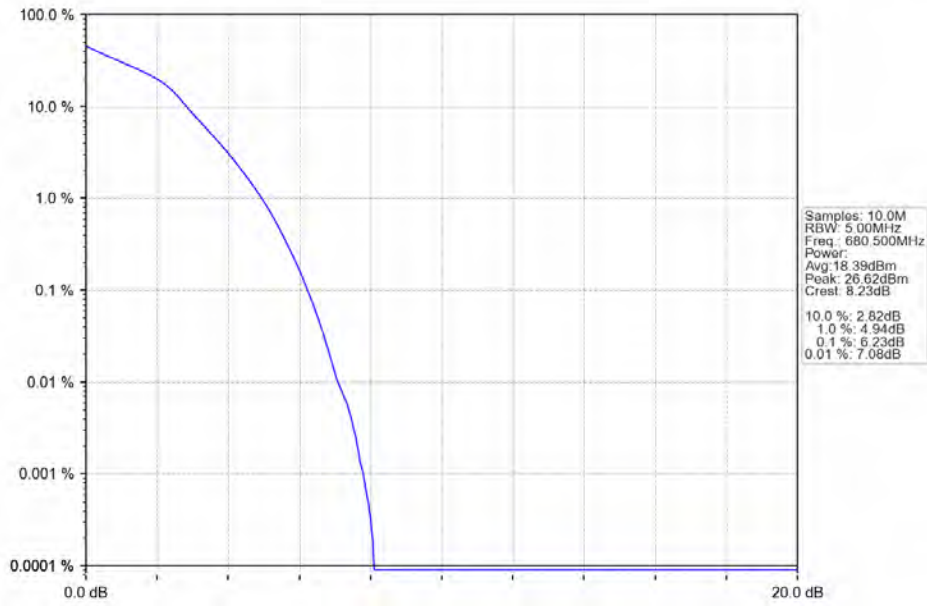


Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV

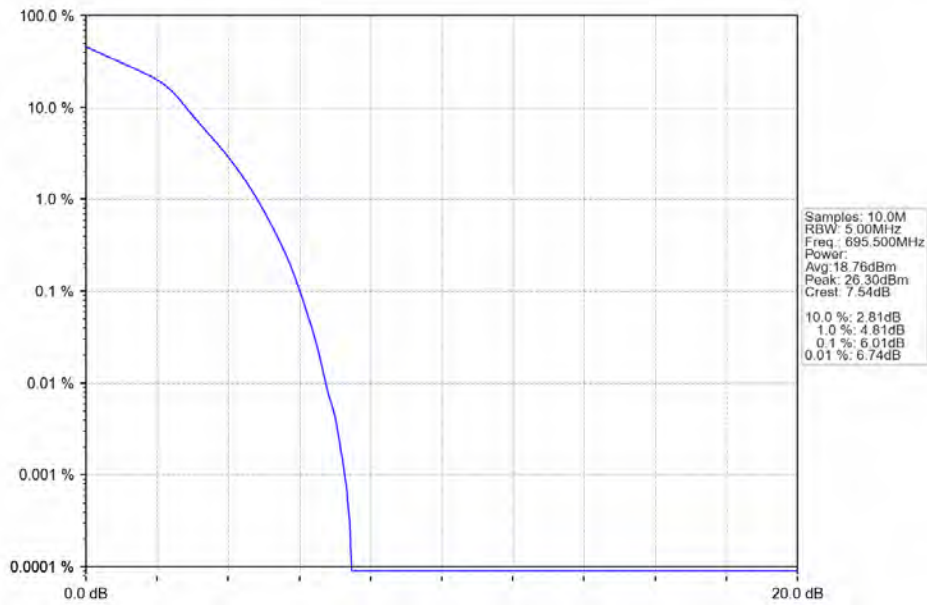




Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV



Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



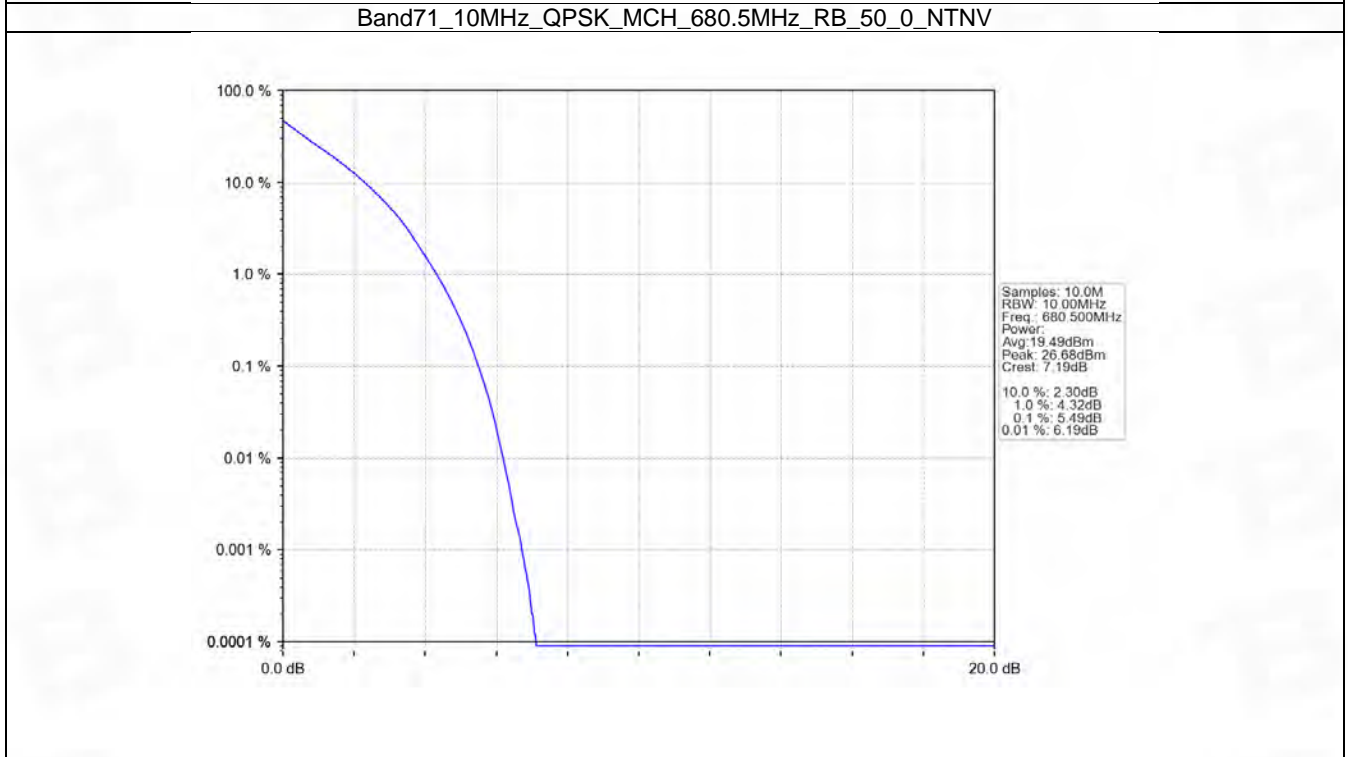
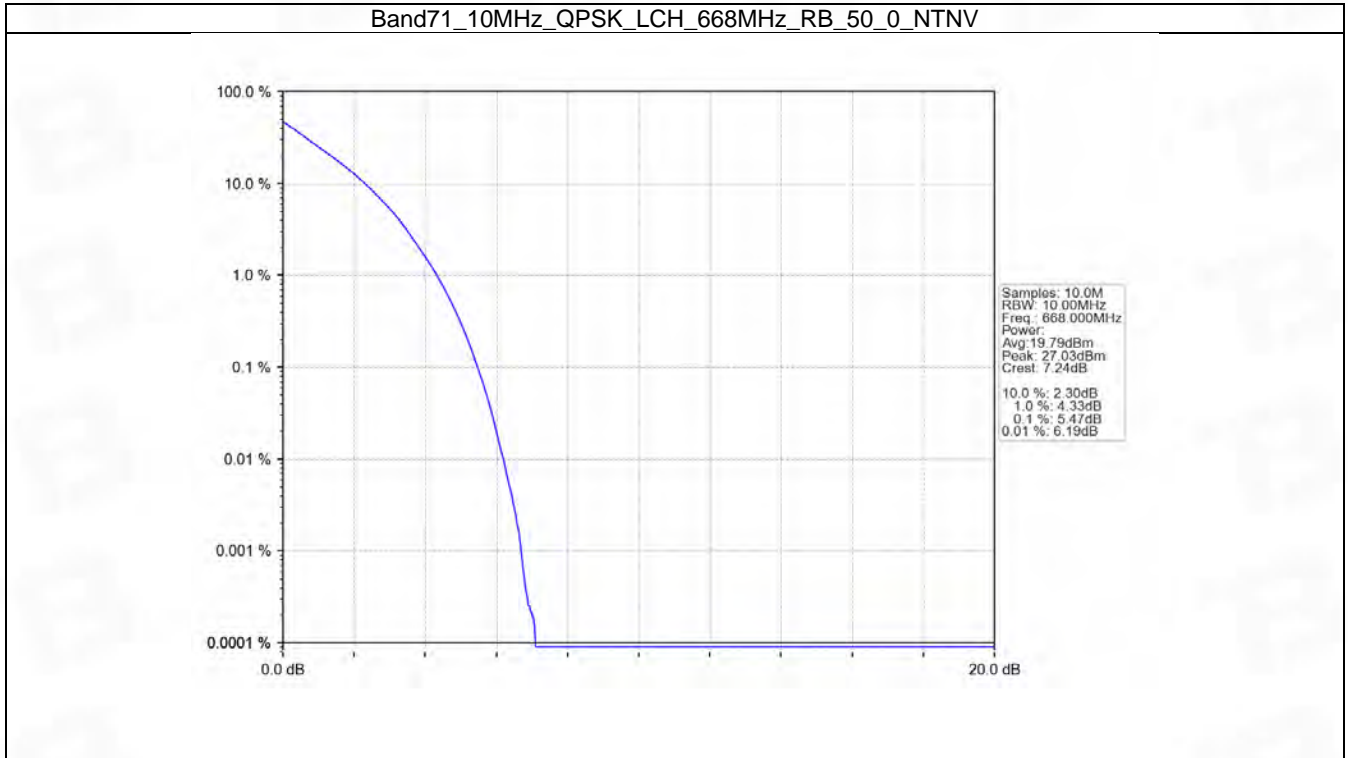
## 5.2 B71\_10MHz

### 5.2.1 Test Result

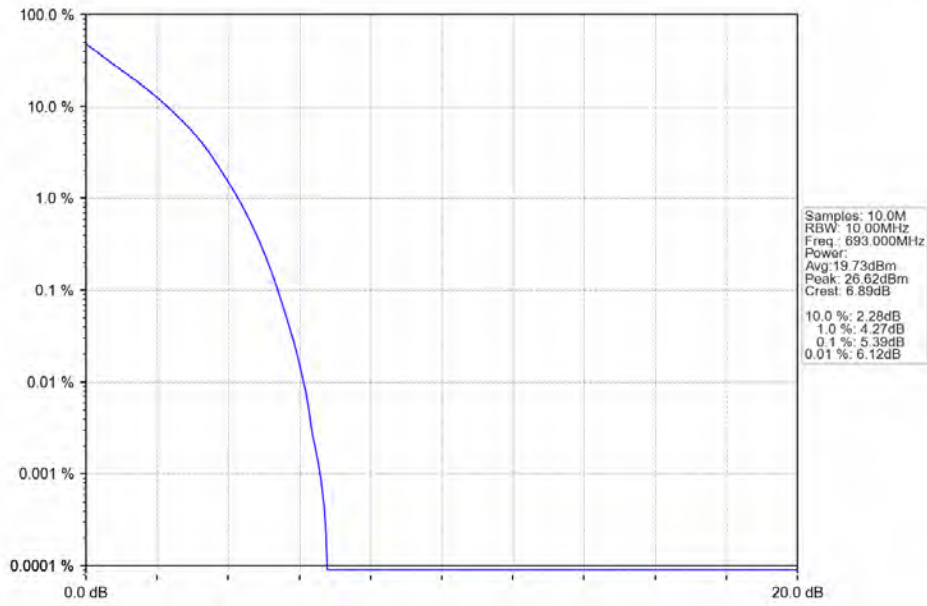
Band: 71 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	668	50	0	5.47	<=13	Pass
	680.5	50	0	5.49	<=13	Pass
	693	50	0	5.39	<=13	Pass
16QAM	668	50	0	6.24	<=13	Pass
	680.5	50	0	6.25	<=13	Pass
	693	50	0	6.08	<=13	Pass



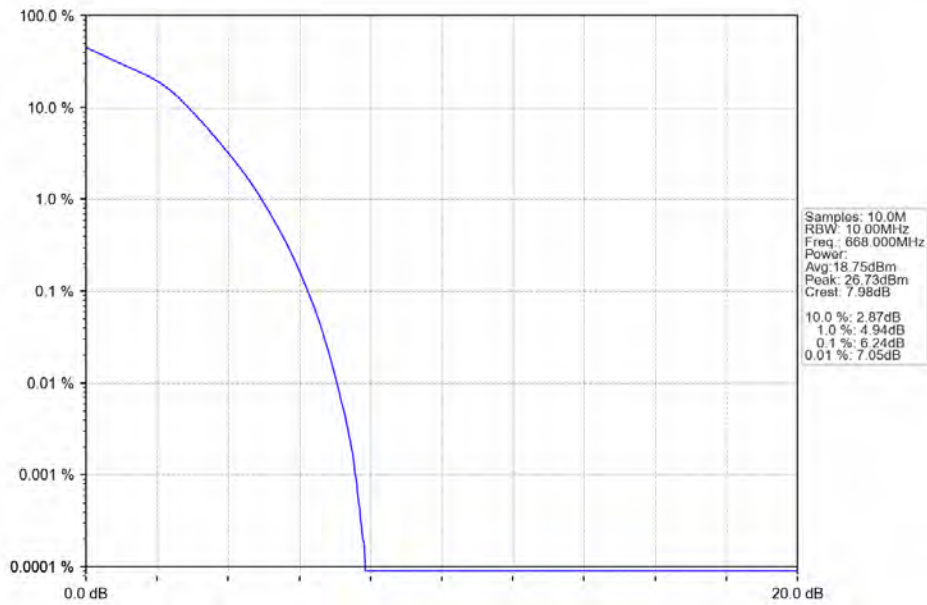
5.2.2 Test Graph



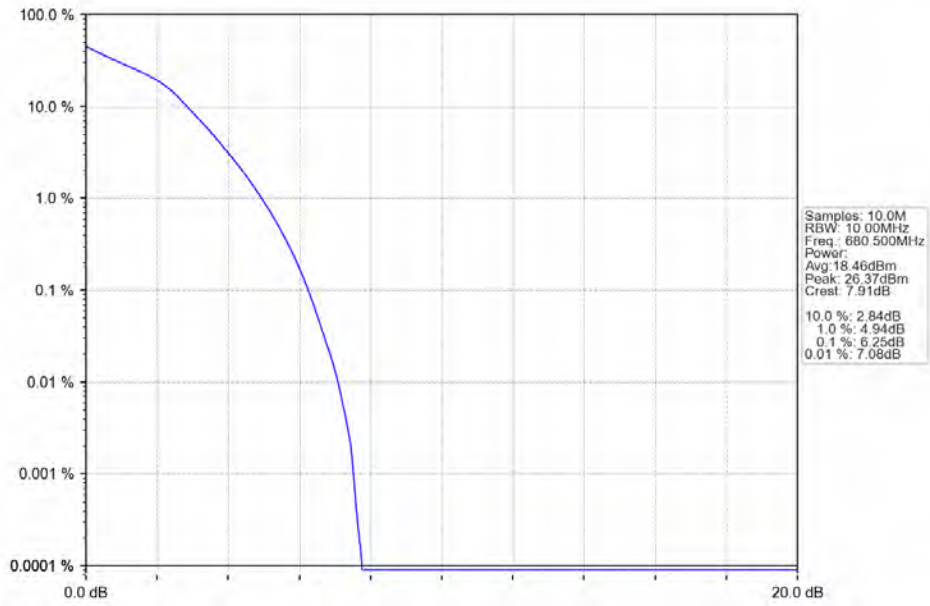
Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



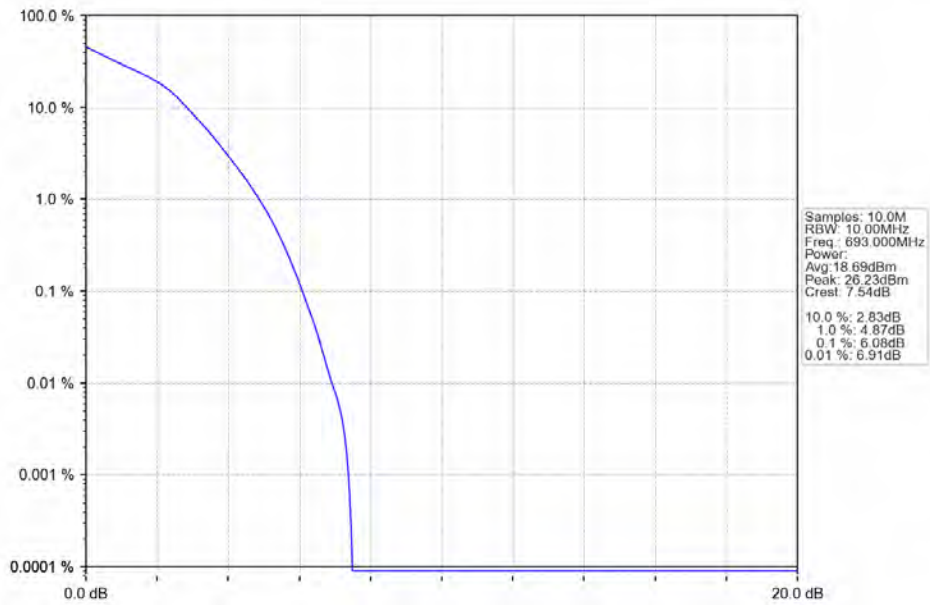
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV

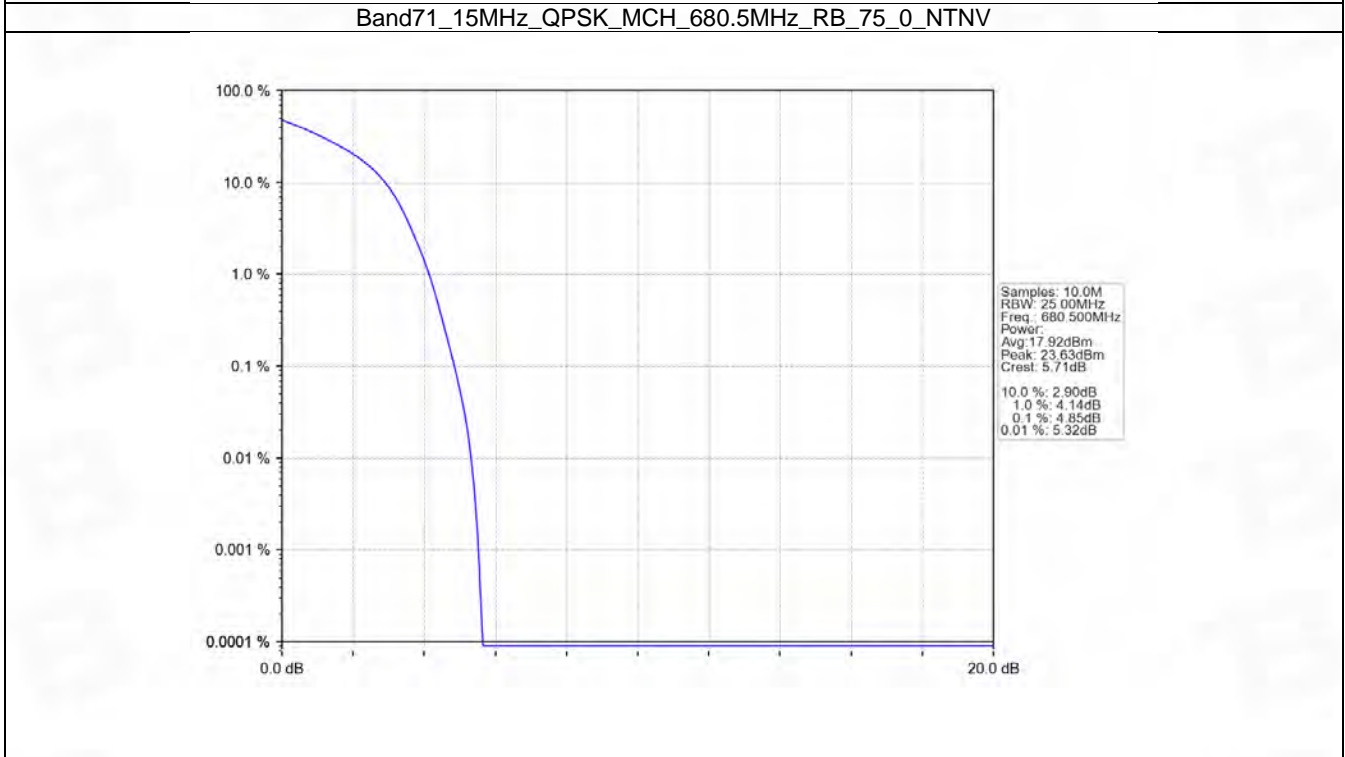
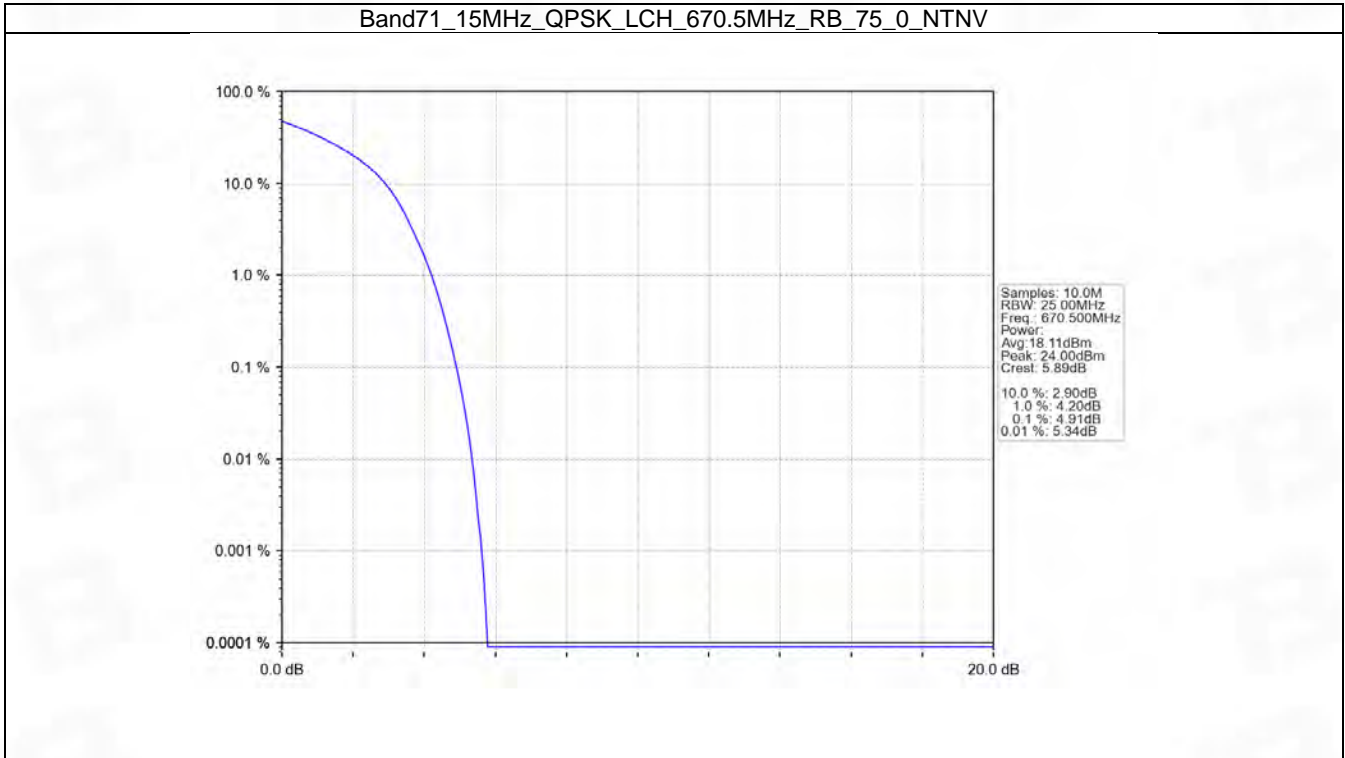


### 5.3 B71\_15MHz

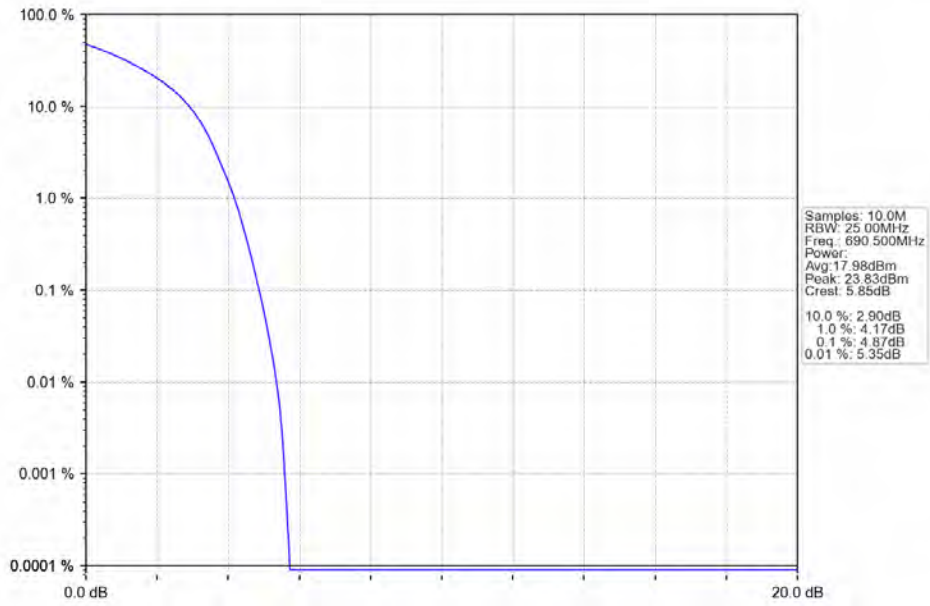
#### 5.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	670.5	75	0	4.91	<=13	Pass
	680.5	75	0	4.85	<=13	Pass
	690.5	75	0	4.87	<=13	Pass
16QAM	670.5	75	0	6.14	<=13	Pass
	680.5	75	0	6.15	<=13	Pass
	690.5	75	0	6.16	<=13	Pass

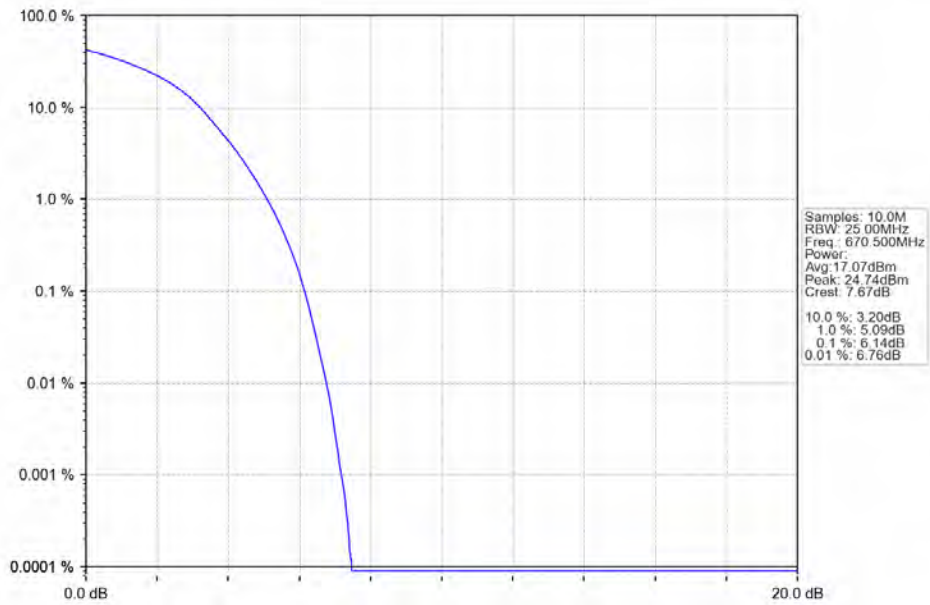
5.3.2 Test Graph



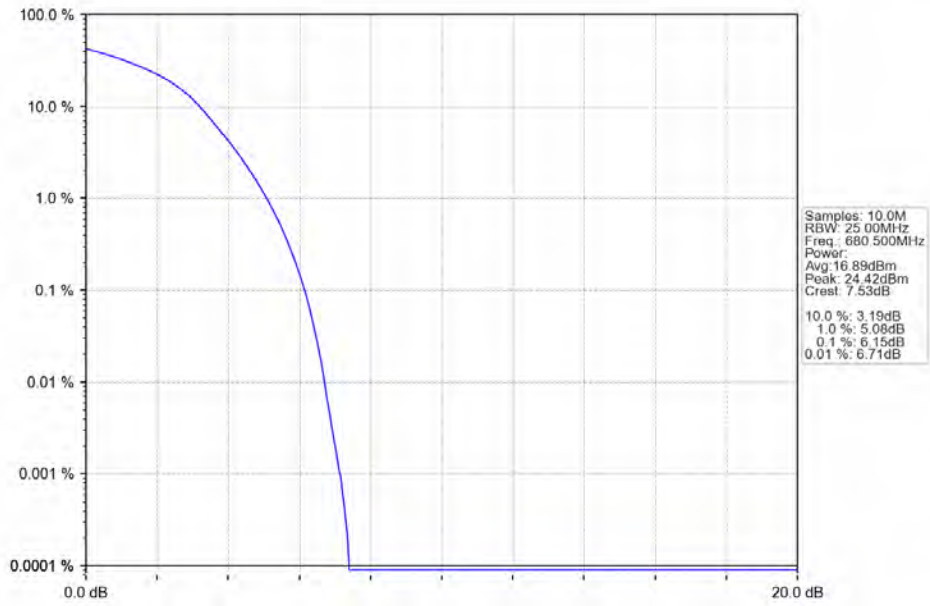
Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



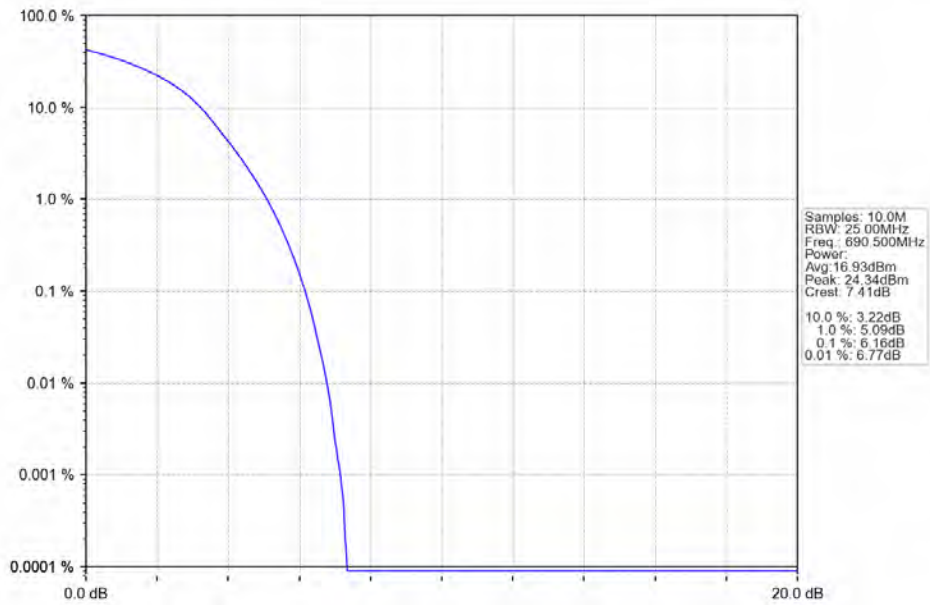
Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



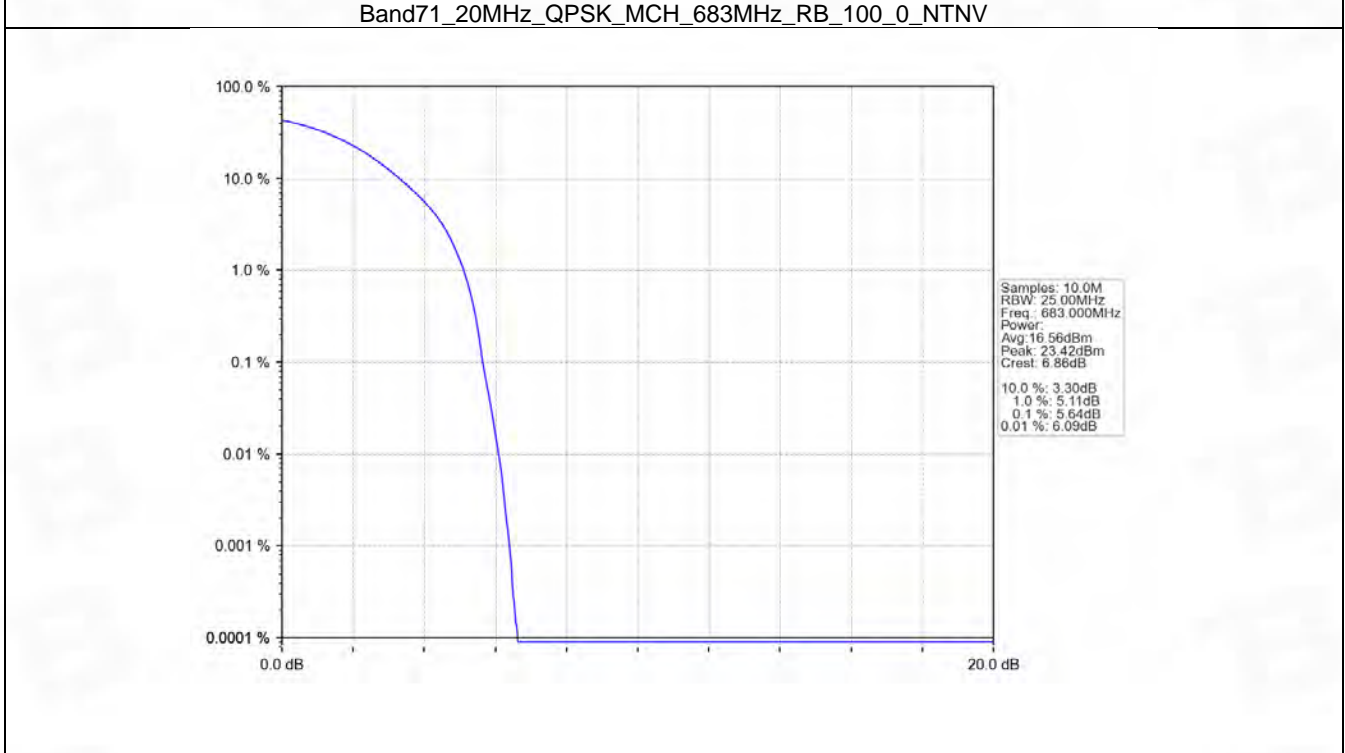
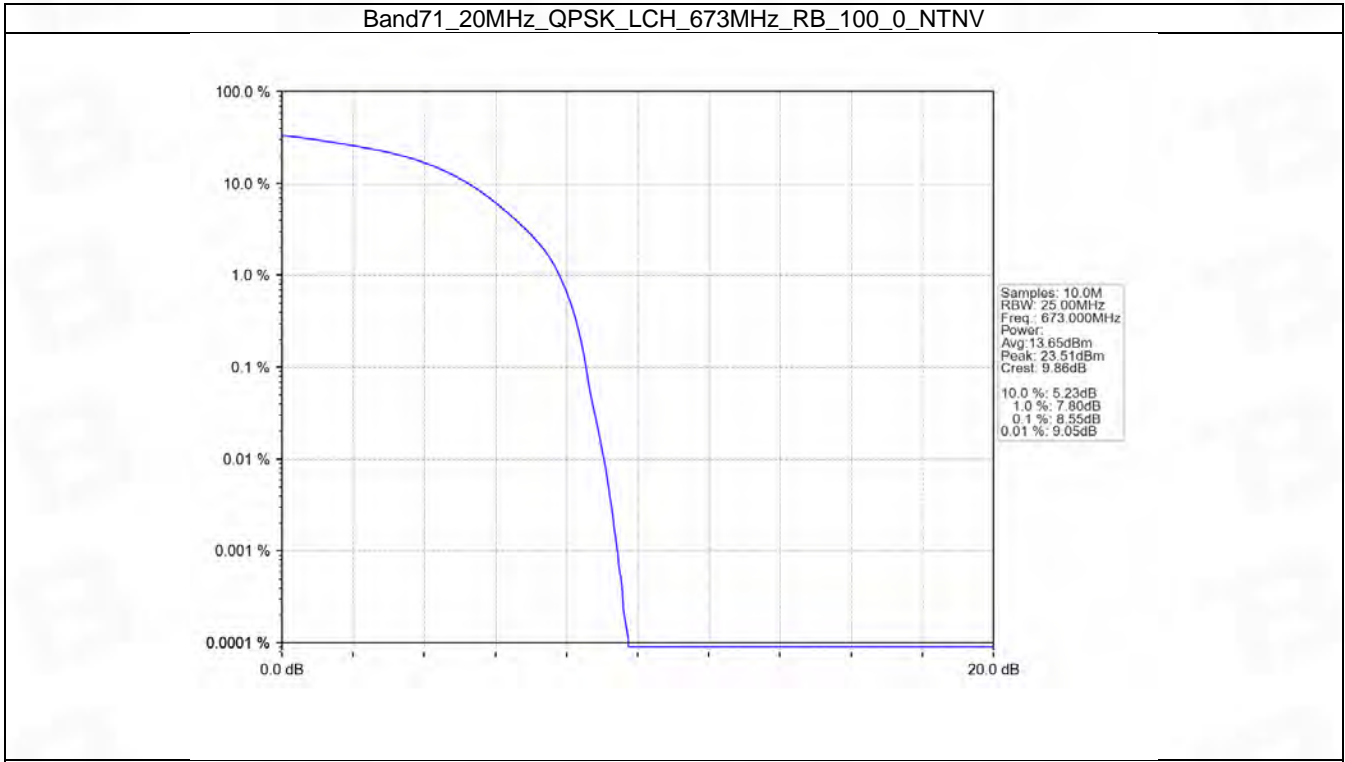
5.4 B71\_20MHz

5.4.1 Test Result

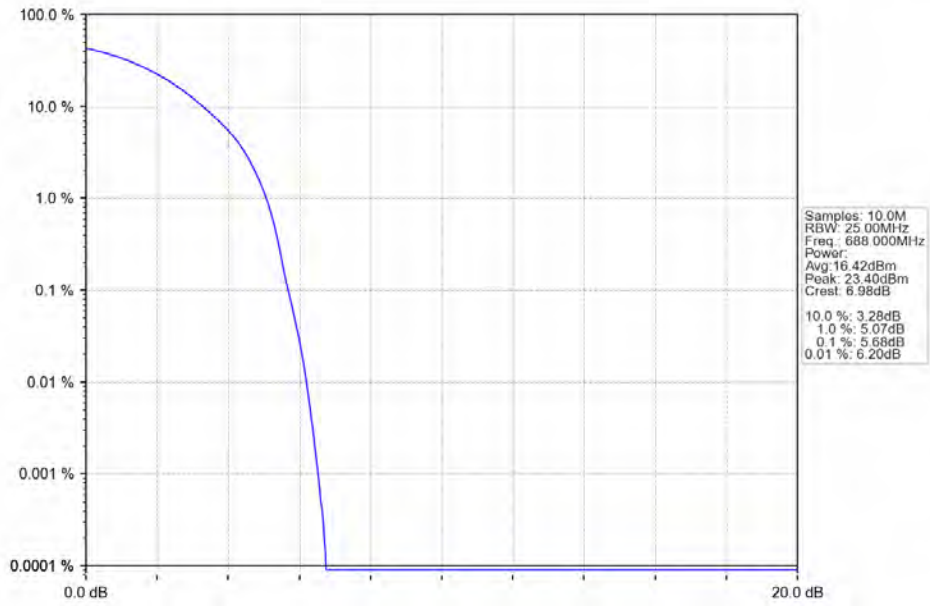
Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	673	100	0	8.55	<=13	Pass
	683	100	0	5.64	<=13	Pass
	688	100	0	5.68	<=13	Pass
16QAM	673	100	0	6.71	<=13	Pass
	683	100	0	6.71	<=13	Pass
	688	100	0	6.69	<=13	Pass



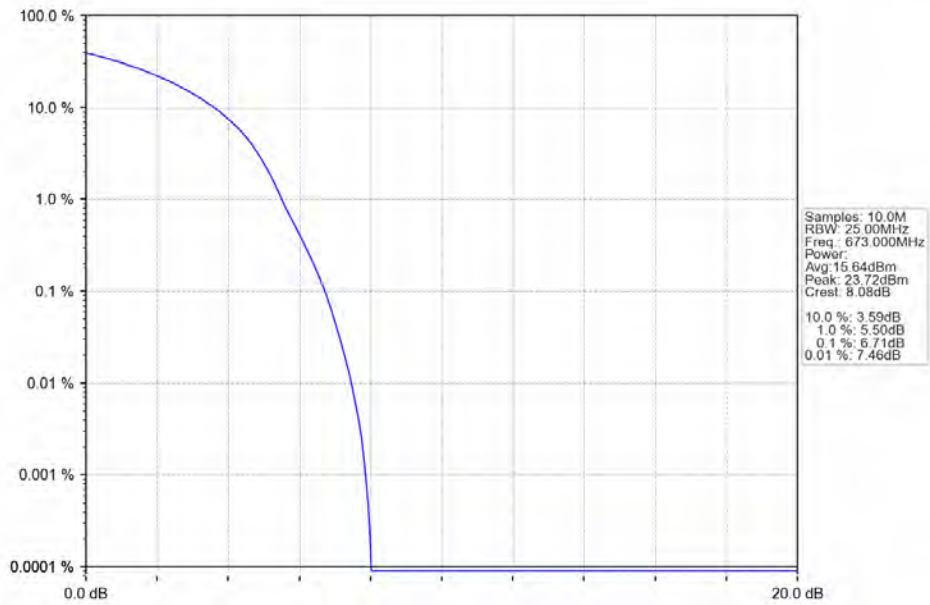
5.4.2 Test Graph



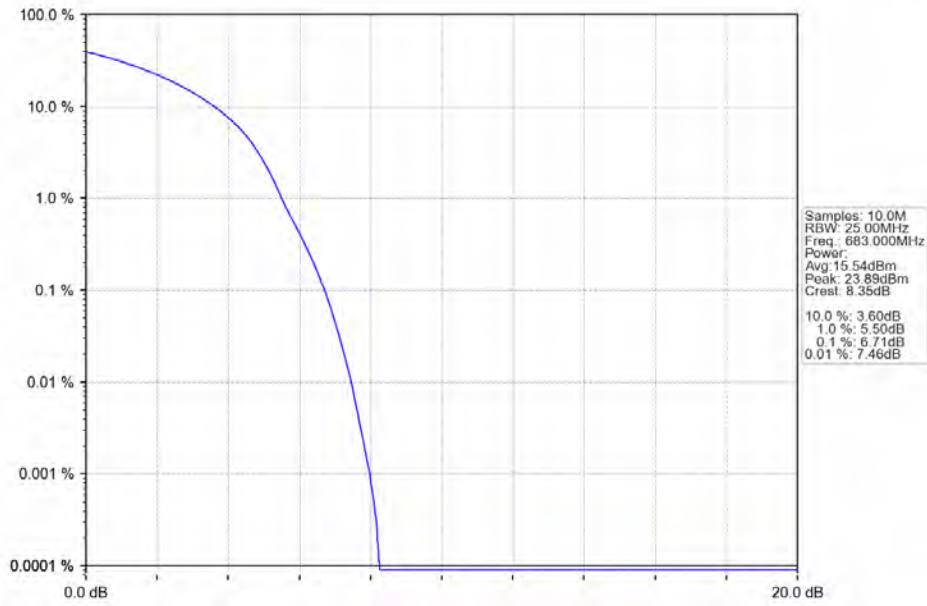
Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



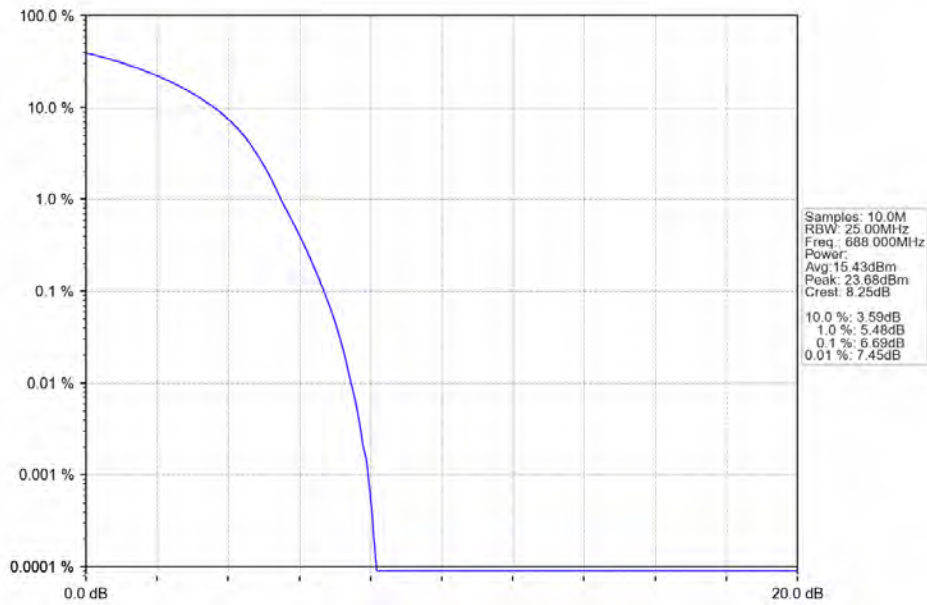
Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV



Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV



Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



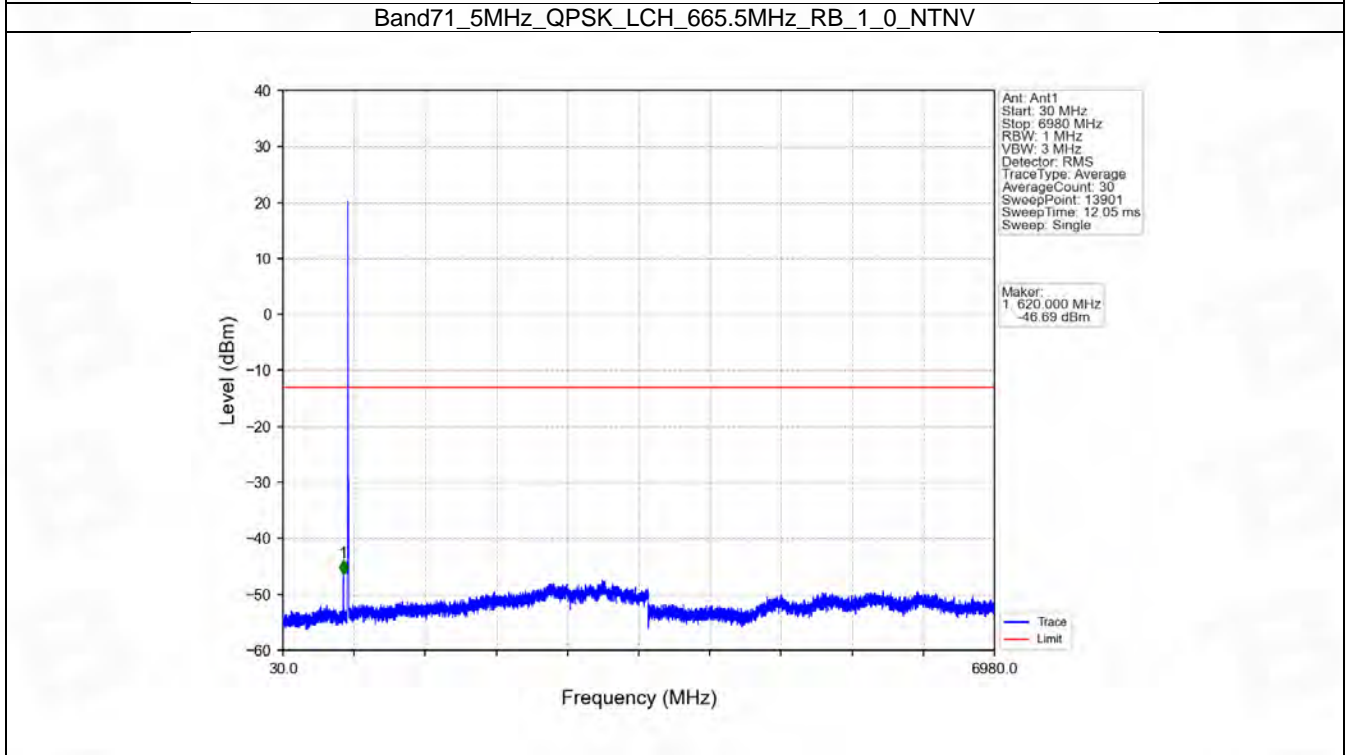
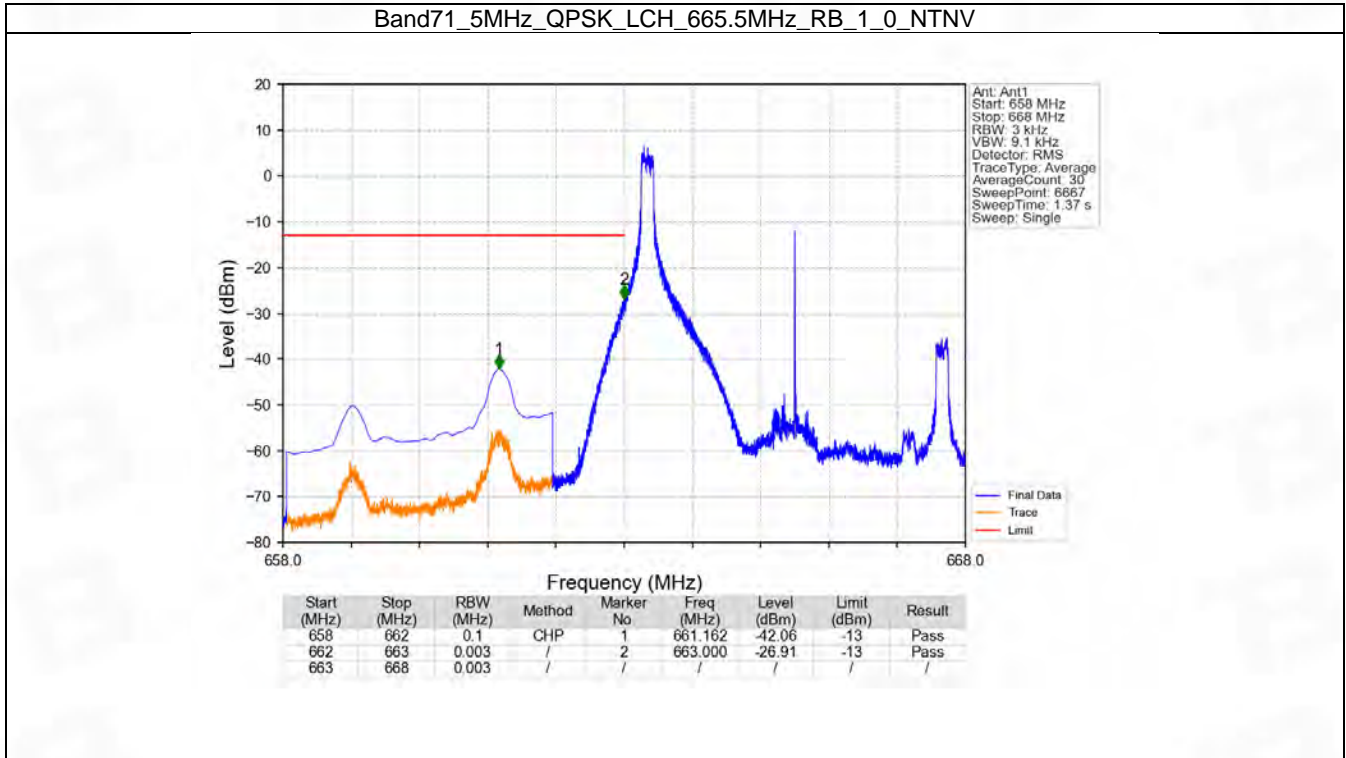
## 6. Spurious Emission

### 6.1 B71\_5MHz

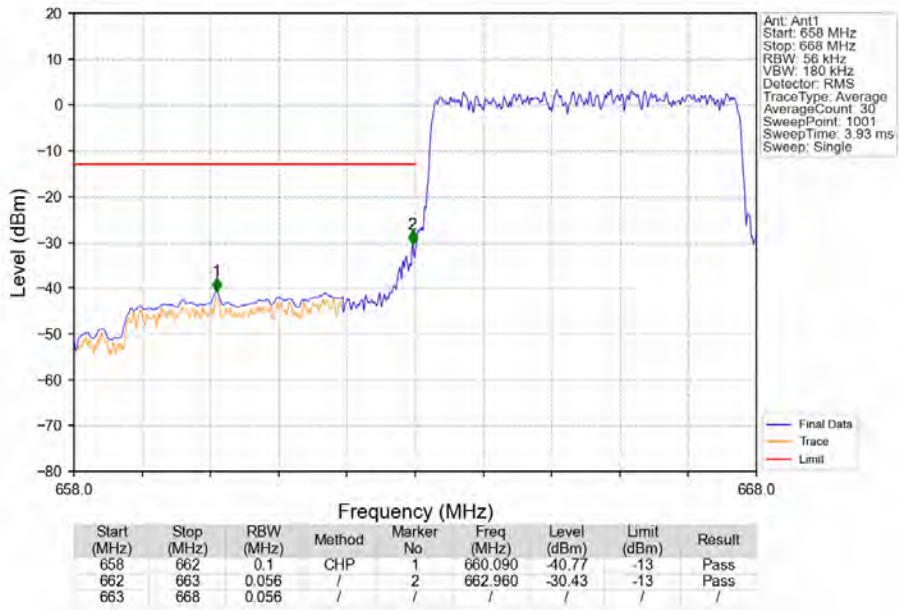
#### 6.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
		695.5	1	0	Refer To Test Graph	
				24	Refer To Test Graph	
			25	0	Refer To Test Graph	
16QAM	665.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
		695.5	1	0	Refer To Test Graph	
				24	Refer To Test Graph	
			25	0	Refer To Test Graph	

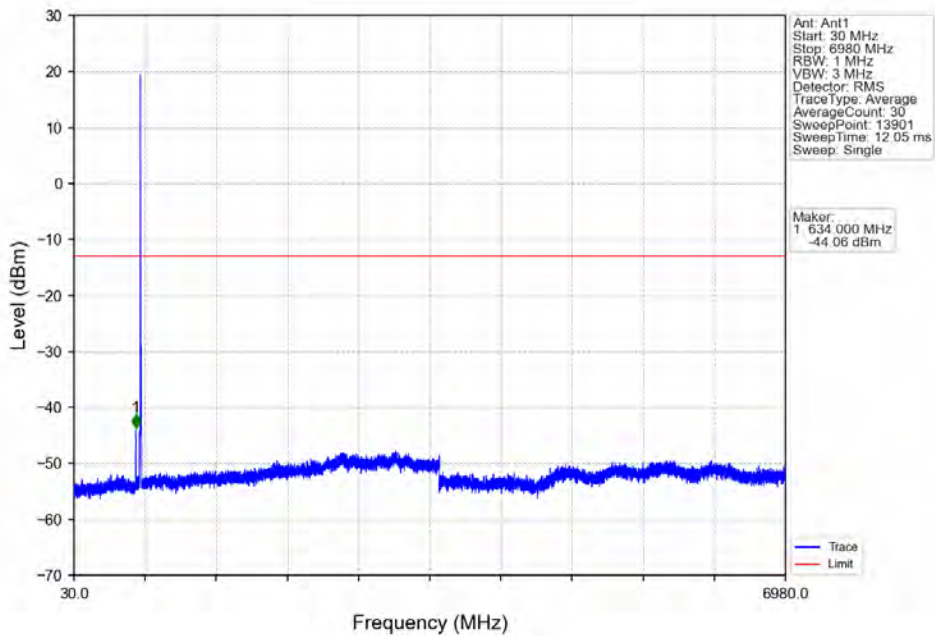
6.1.2 Test Graph



Band71\_5MHz\_QPSK\_LCH\_665.5MHz\_RB\_25\_0\_NTNV

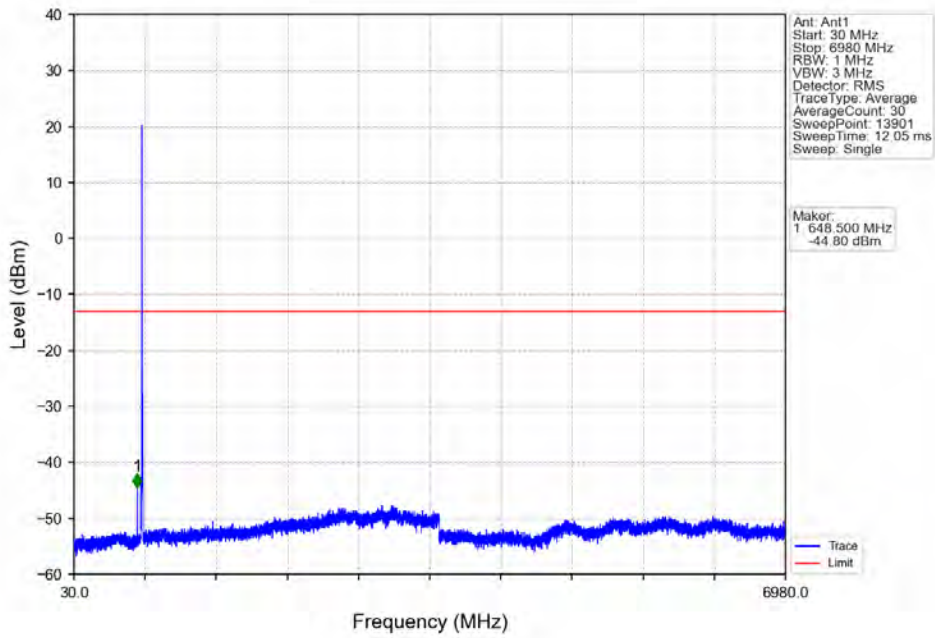


Band71\_5MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV

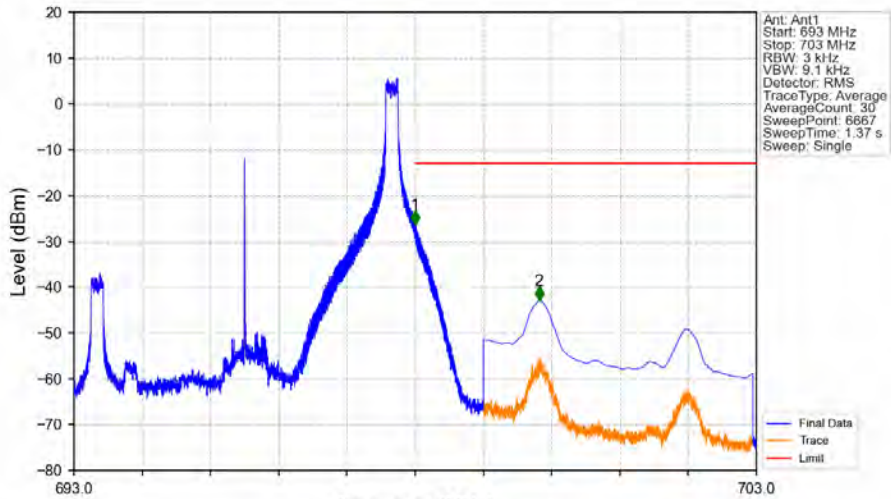




Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_1\_0\_NTNV

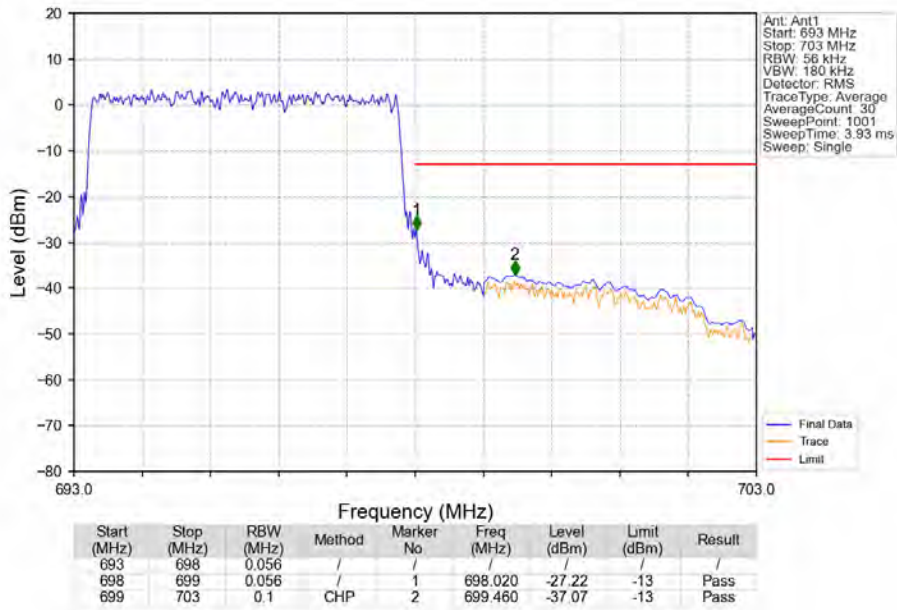


Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_1\_24\_NTNV

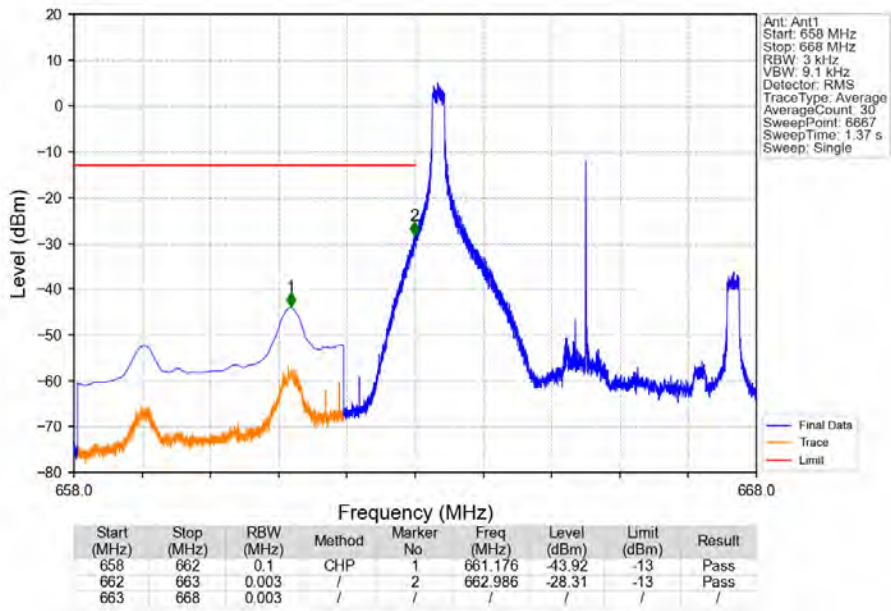


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.003	/	1	698.000	-26.37	-13	Pass
698	699	0.003	CHP	2	699.815	-42.94	-13	Pass

Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV

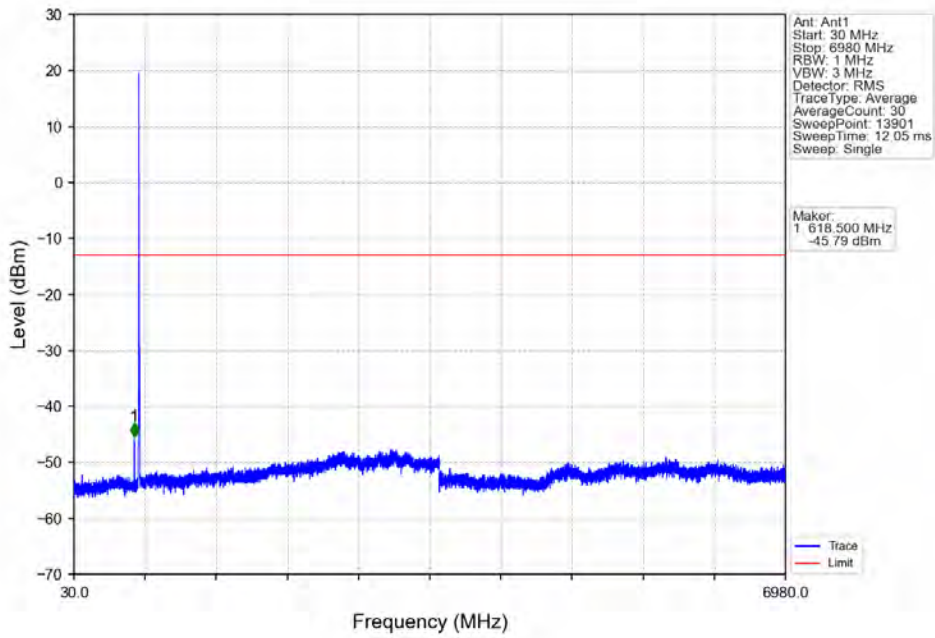


Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_1\_0\_NTNV

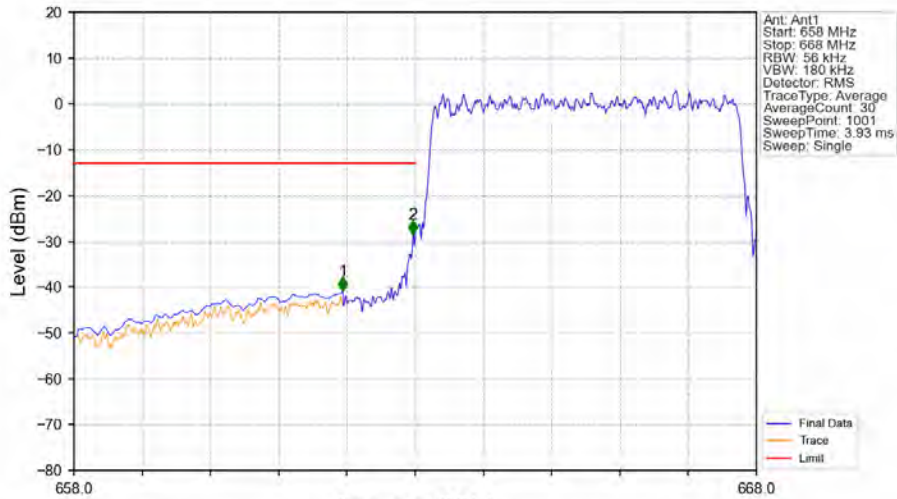




Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_1\_0\_NTNV

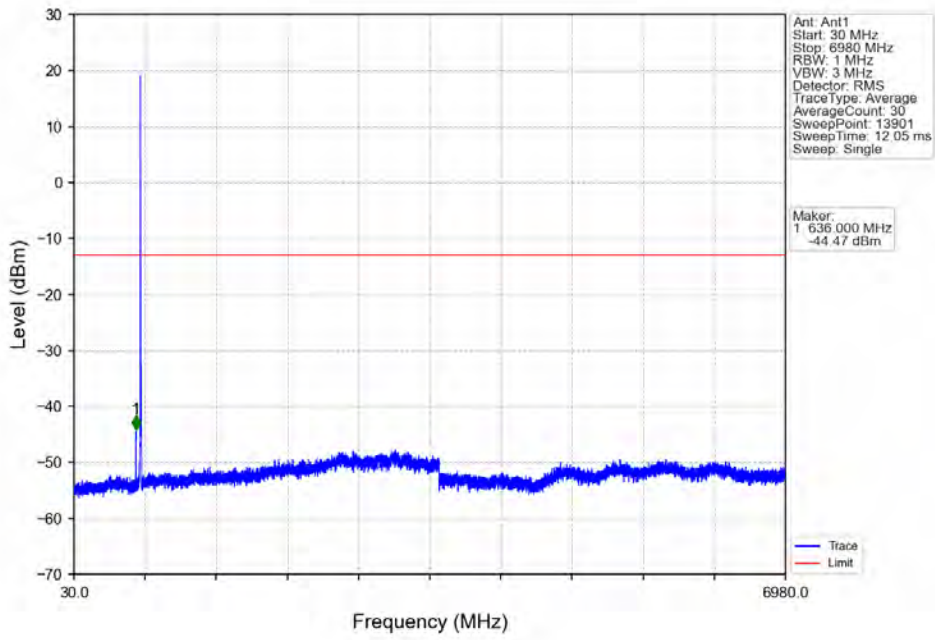


Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV

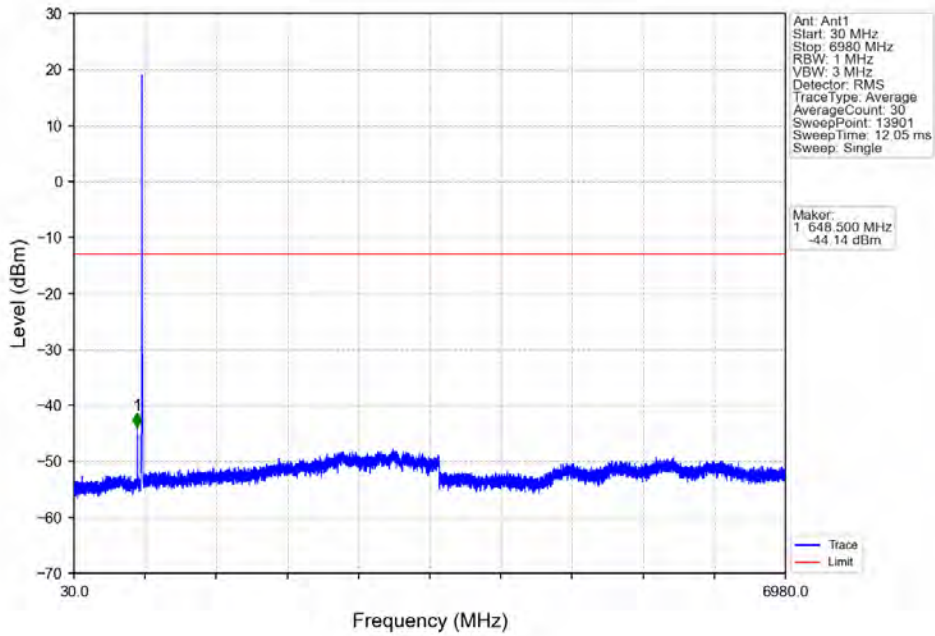


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662	0.1	CHP	1	661.940	-40.82	-13	Pass
662	663	0.056	/	2	662.970	-28.53	-13	Pass
663	668	0.056	/	/	/	/	/	/

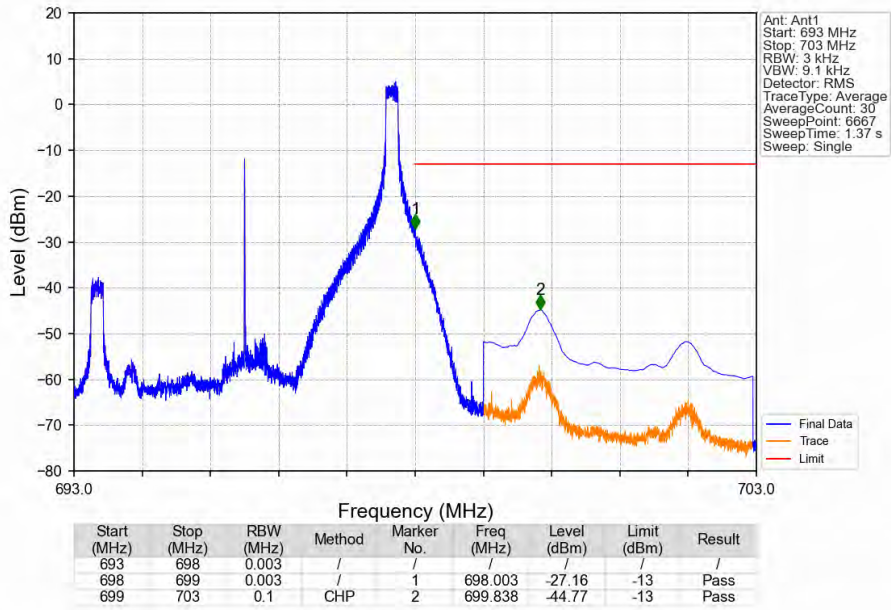
Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



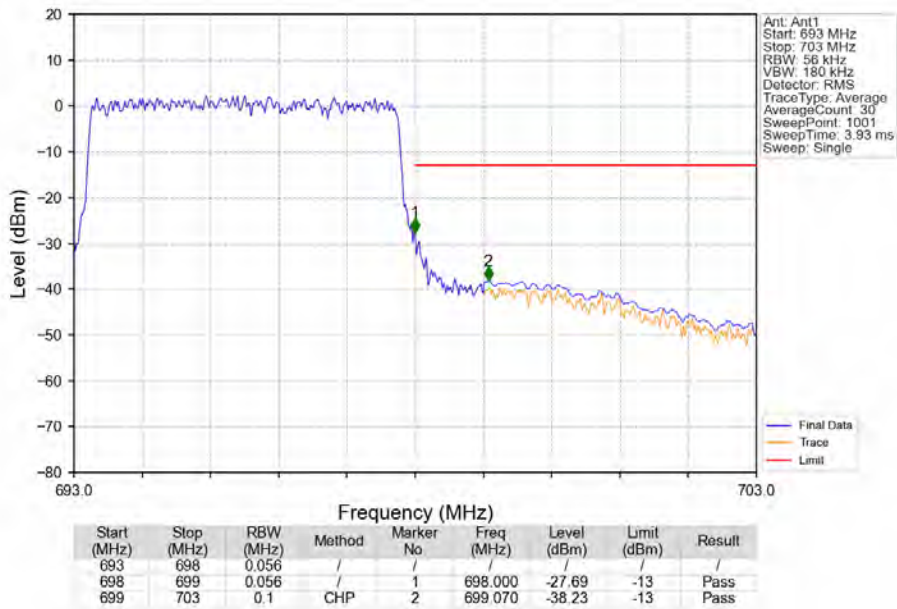
Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_1\_0\_NTNV



Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_1\_24\_NTNV



Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV

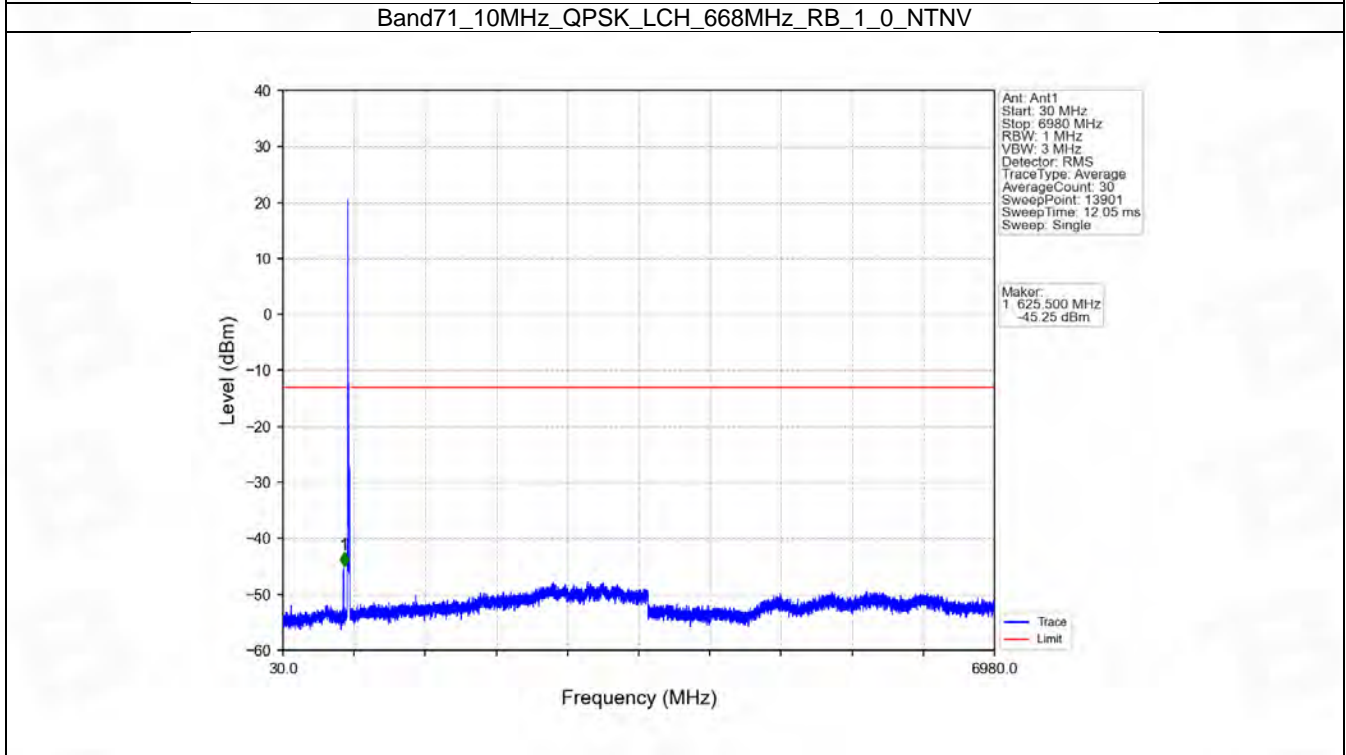
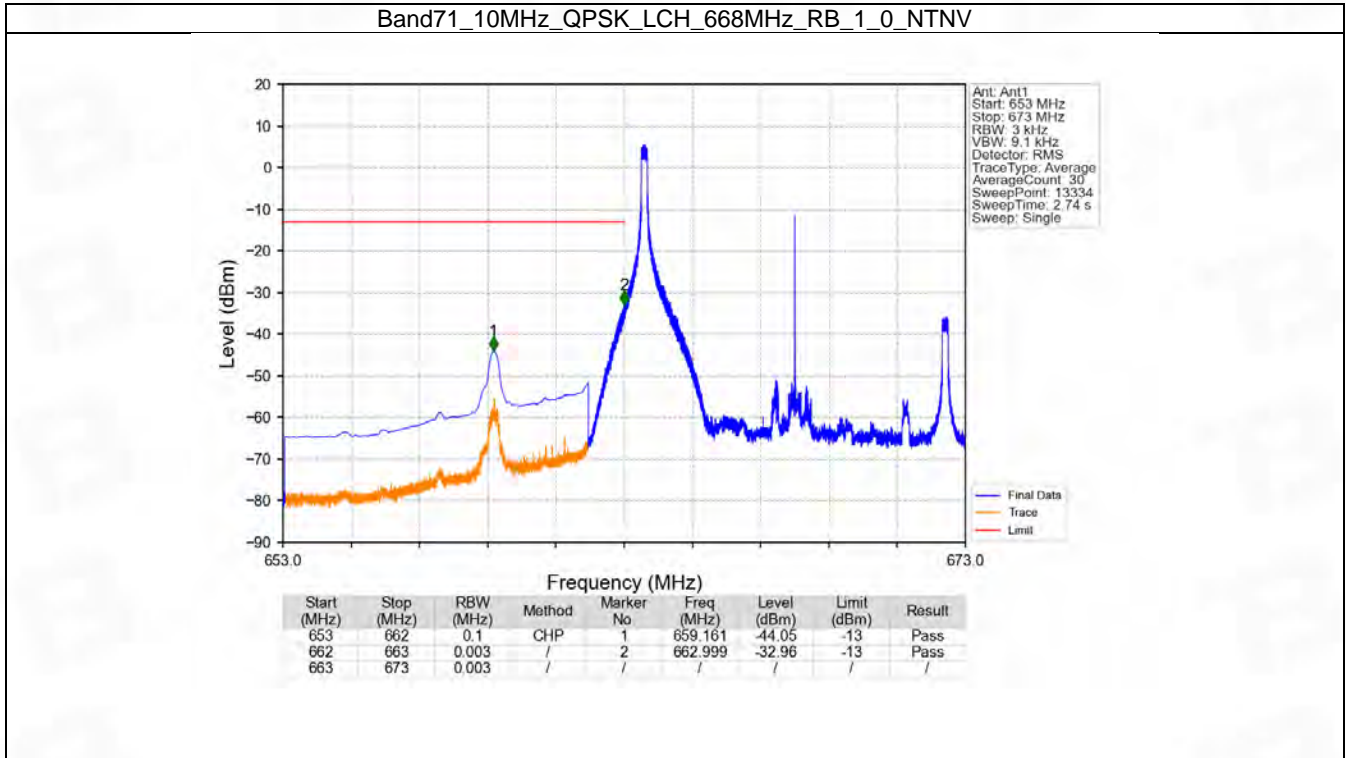


6.2 B71\_10MHz

6.2.1 Test Result

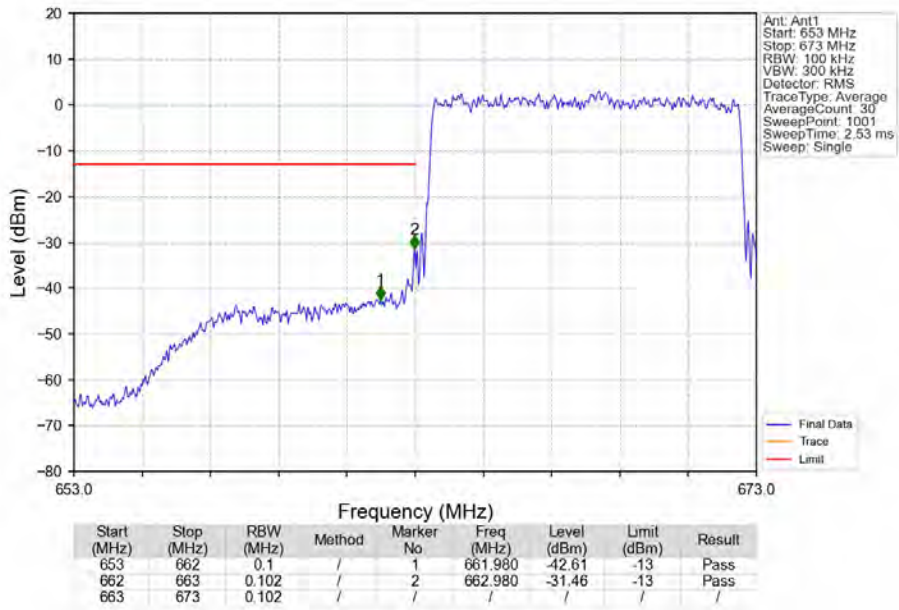
Band: 71 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	668	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	693	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	668	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	693	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

6.2.2 Test Graph

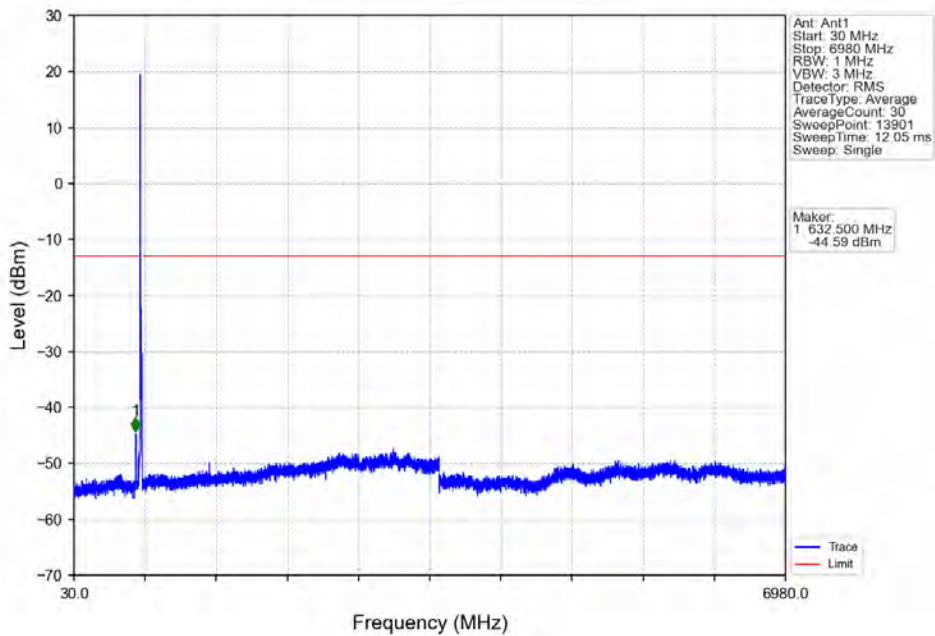




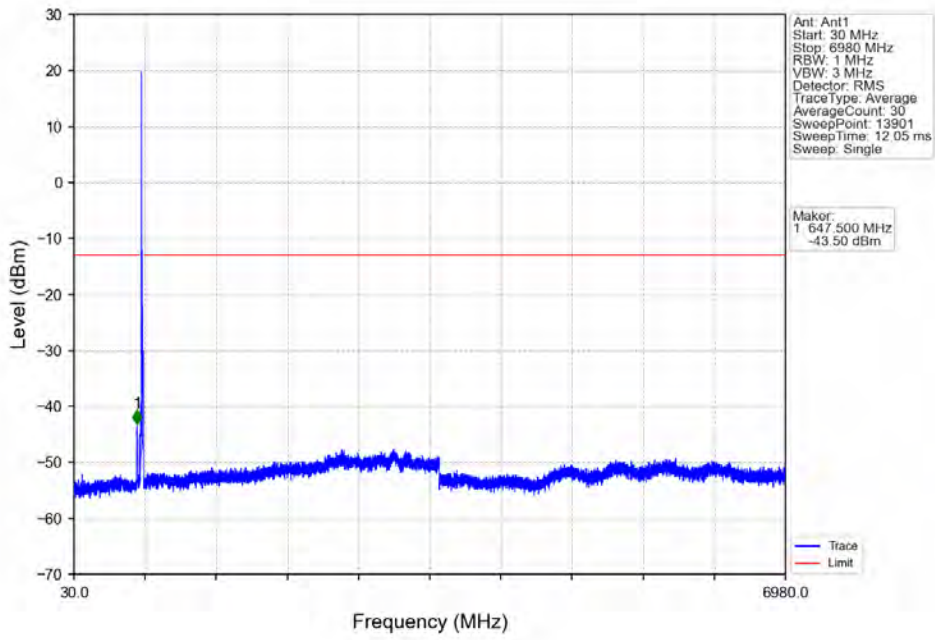
Band71\_10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV



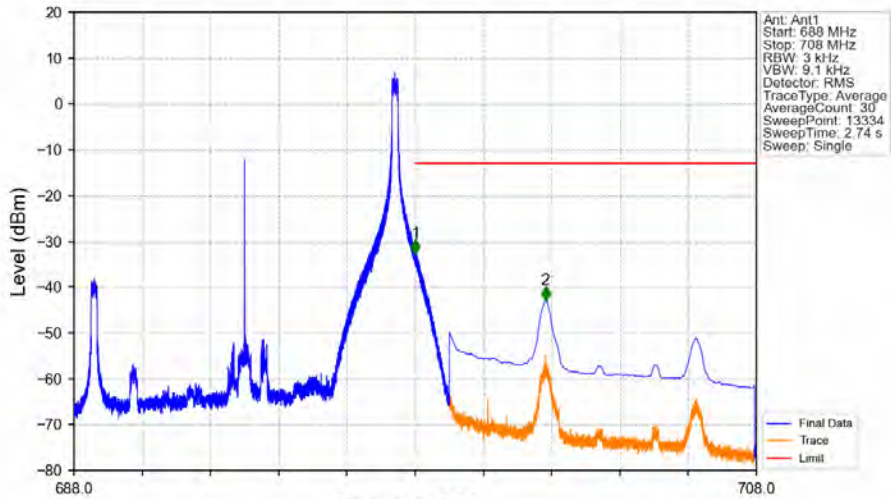
Band71\_10MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_1\_0\_NTNV



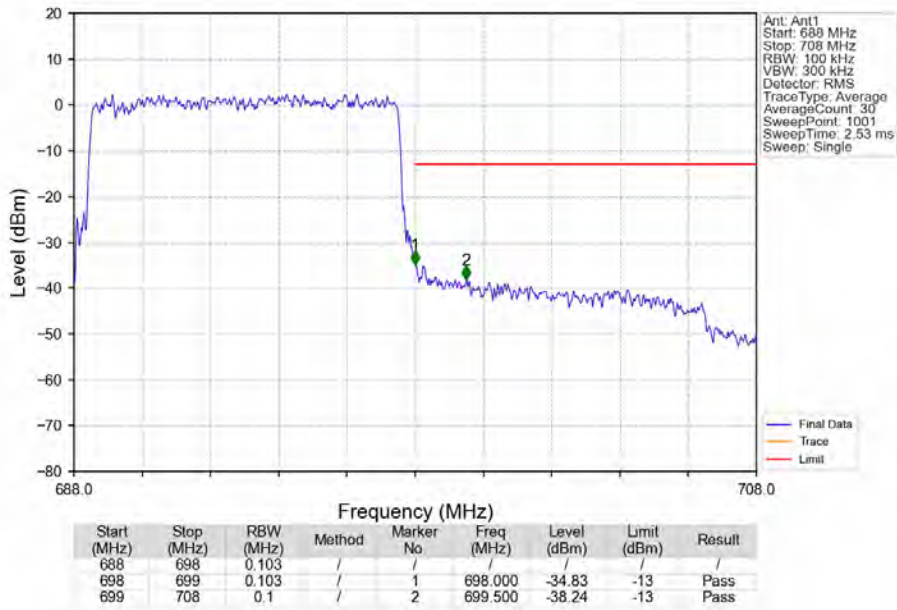
Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_1\_49\_NTNV



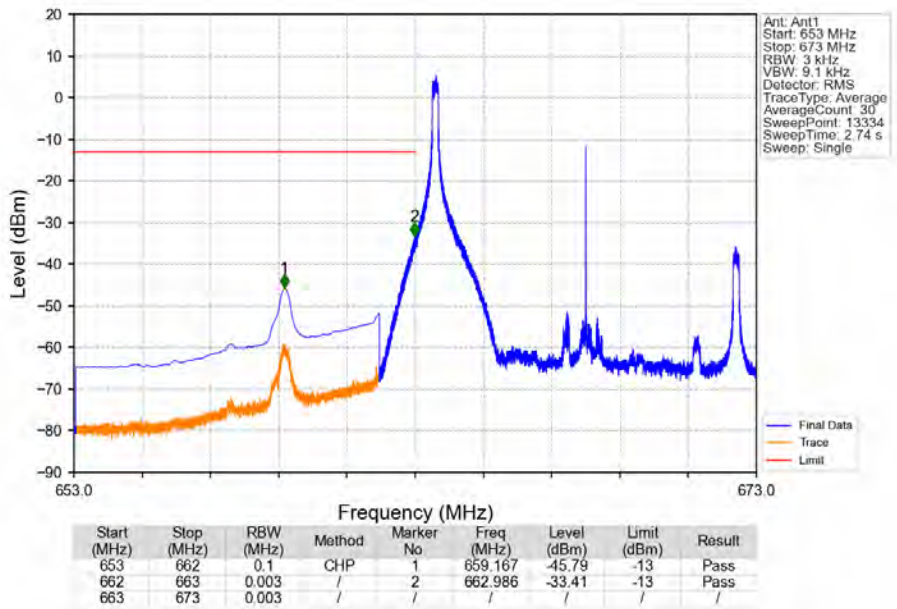
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.003	/	1	698.011	-32.66	-13	Pass
698	699	0.003	/	1	698.011	-32.66	-13	Pass
699	708	0.1	CHP	2	701.820	-42.89	-13	Pass



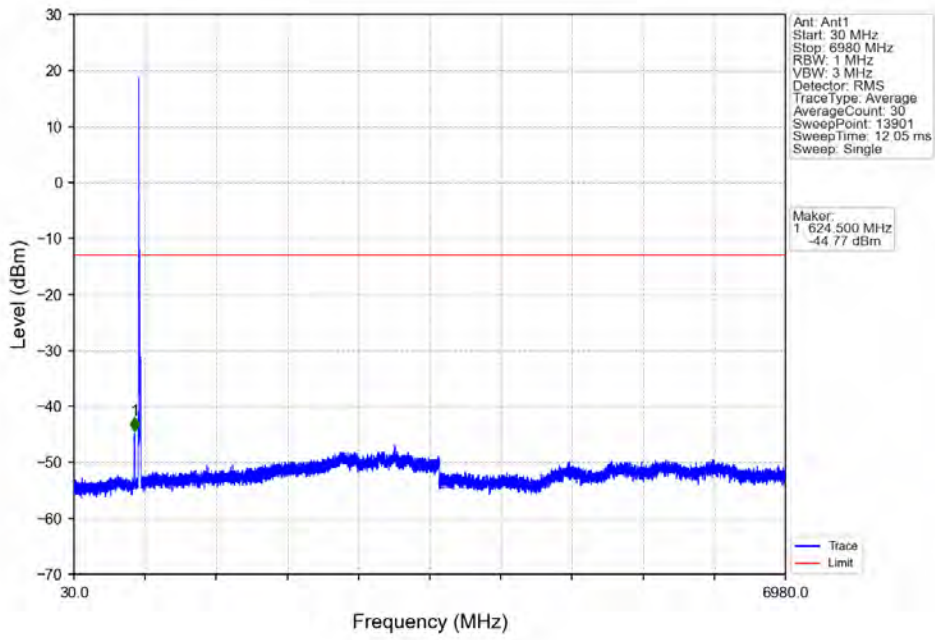
Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



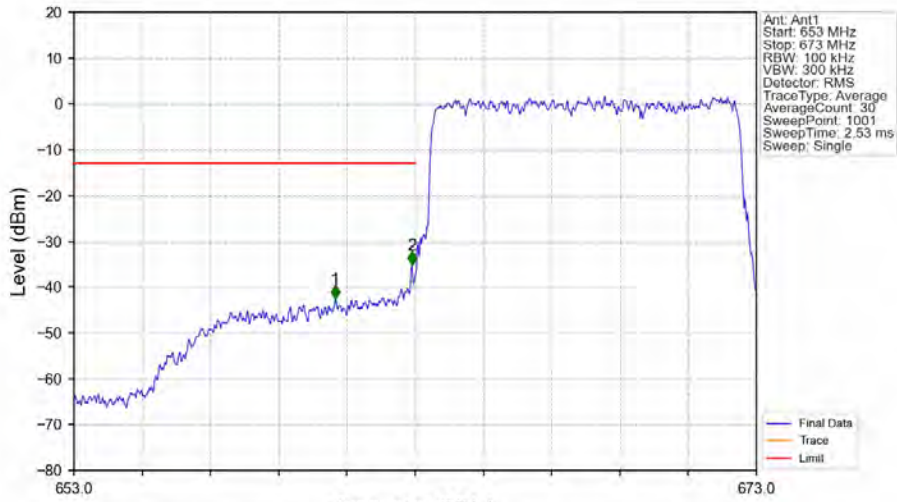
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_1\_0\_NTNV



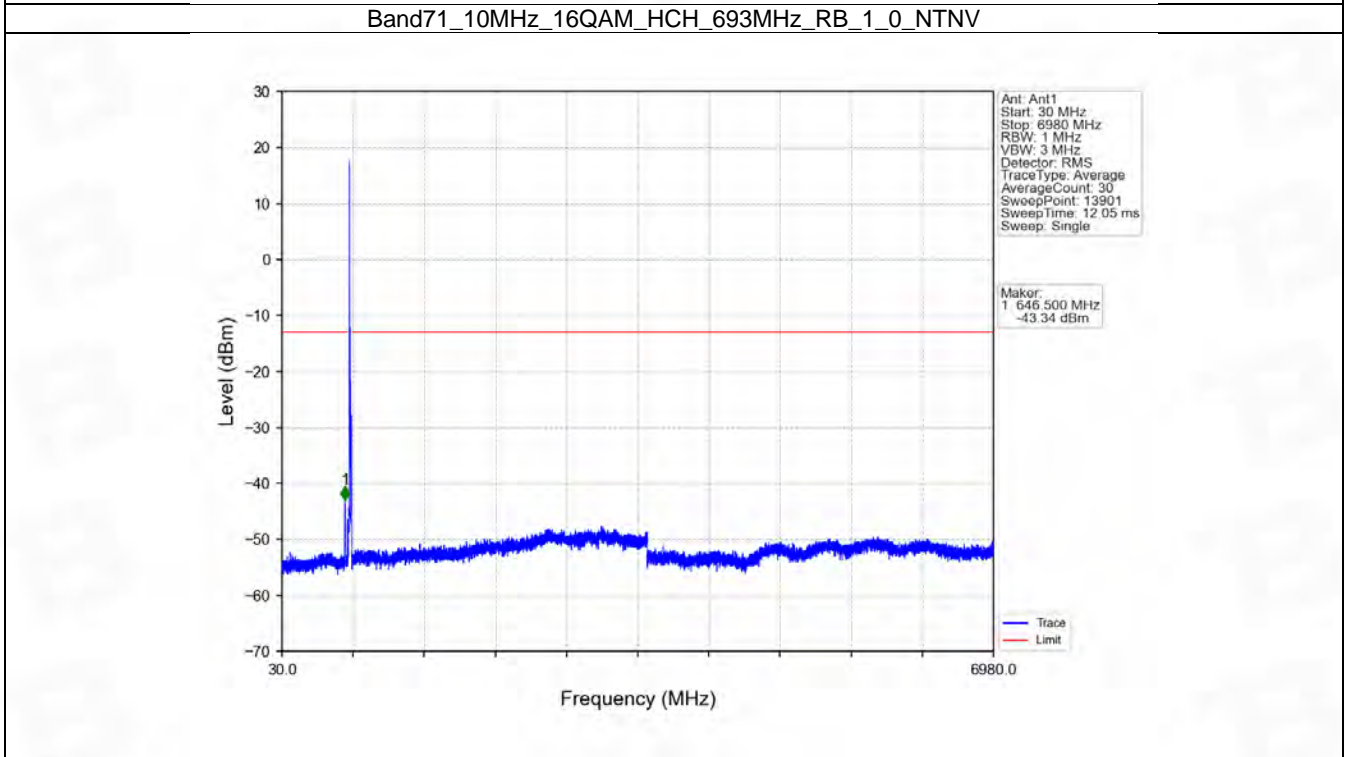
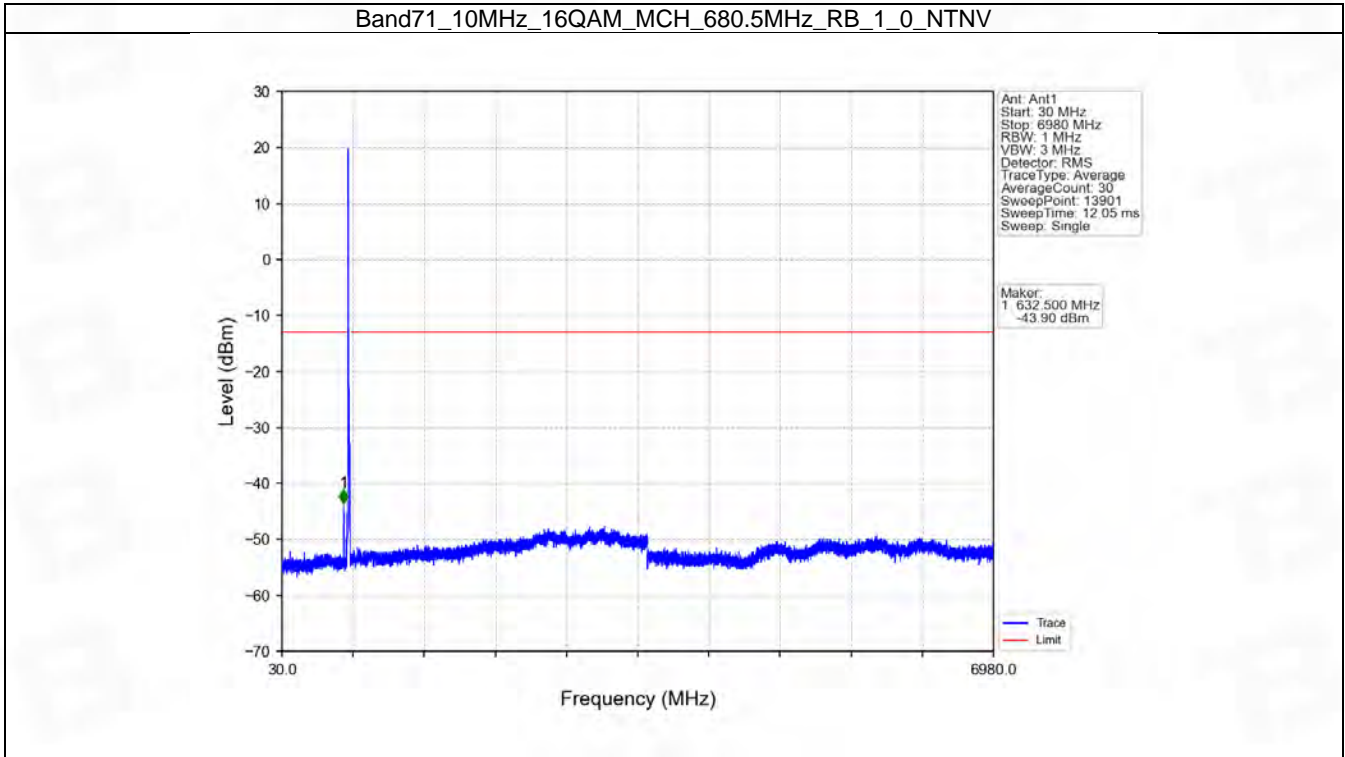
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_1\_0\_NTNV



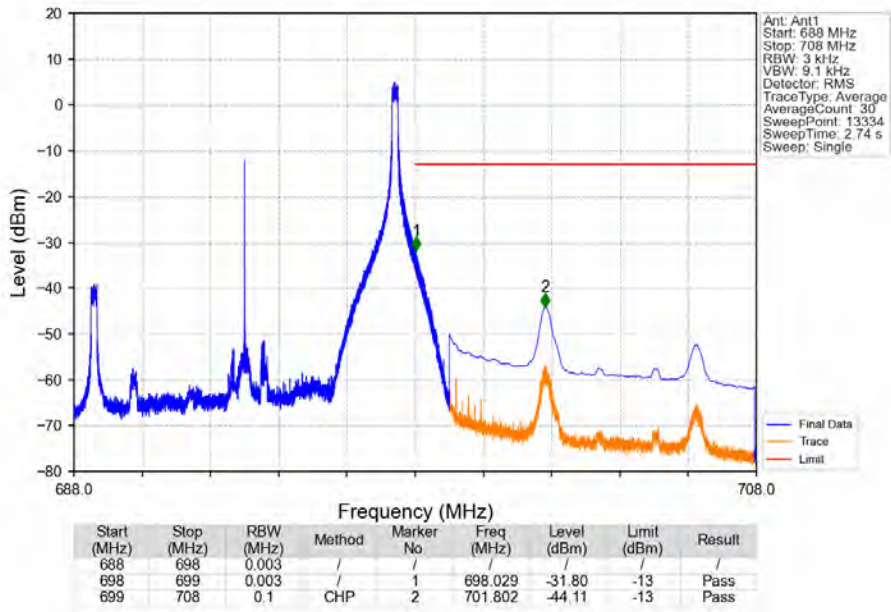
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



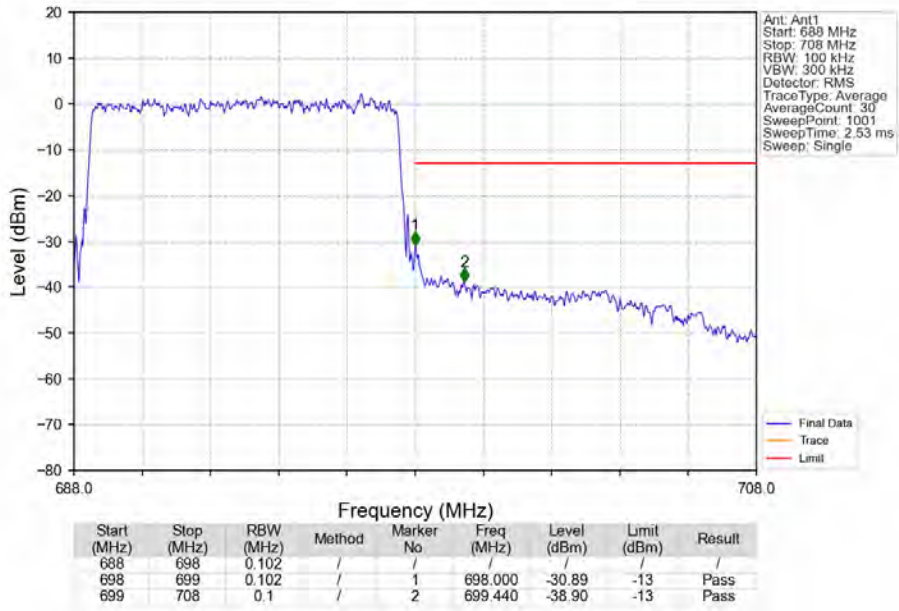
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	662	0.1	/	1	660.660	-42.56	-13	Pass
662	663	0.103	/	2	662.900	-35.21	-13	Pass
663	673	0.103	/	/	/	/	/	/



Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_1\_49\_NTNV



Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV



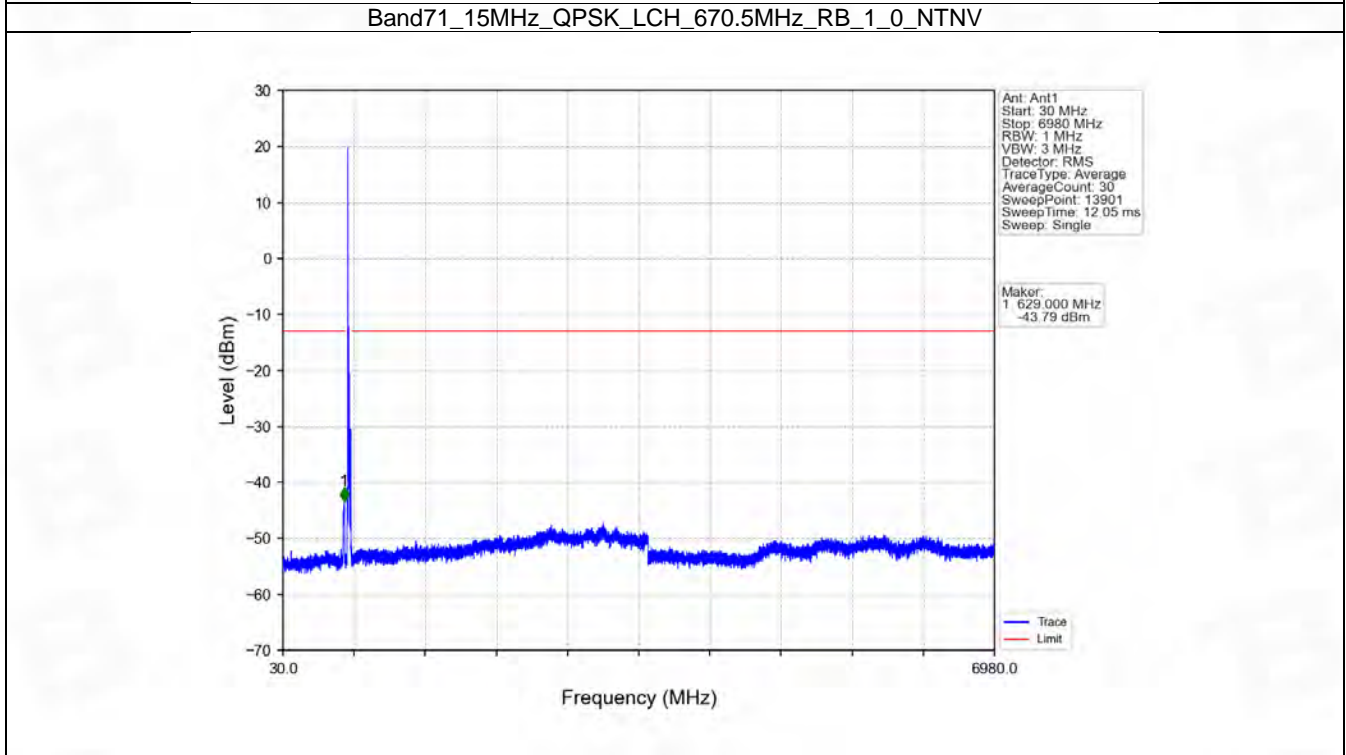
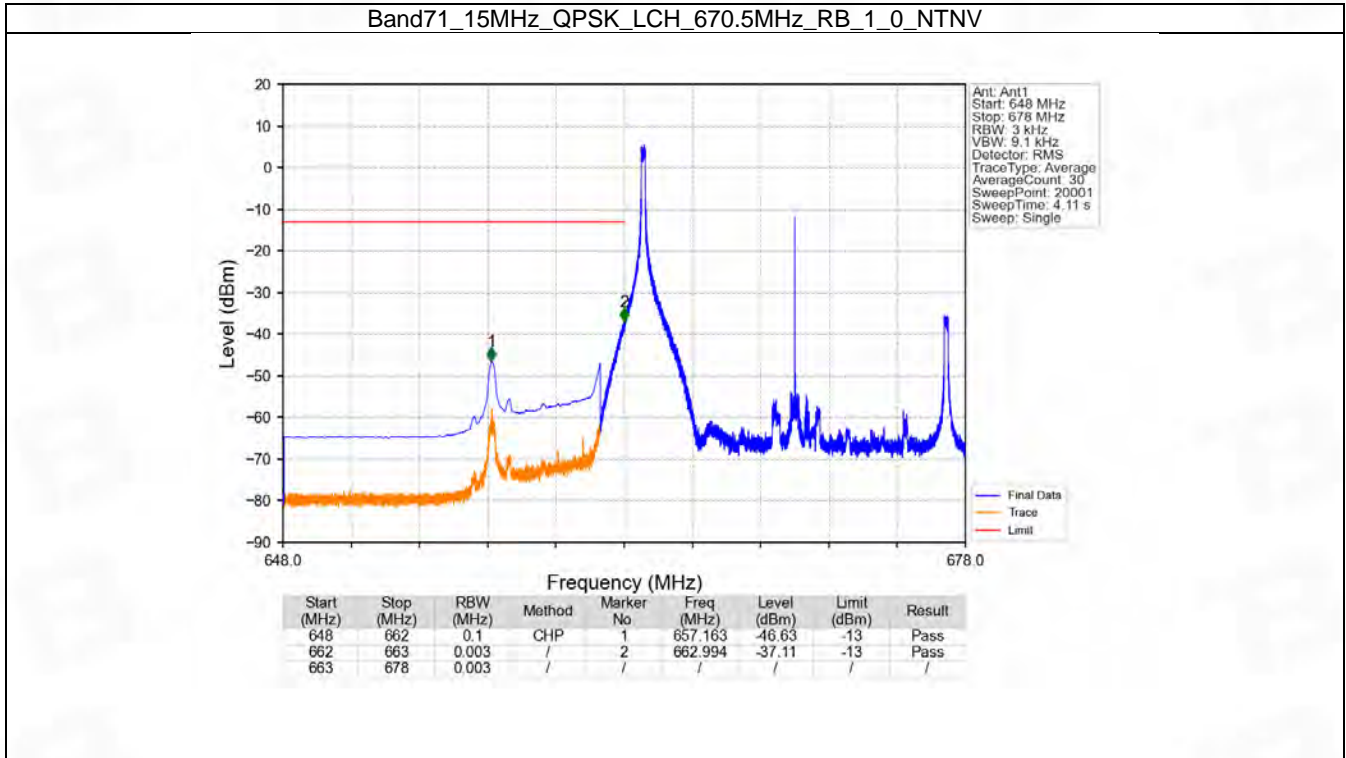
### 6.3 B71\_15MHz

#### 6.3.1 Test Result

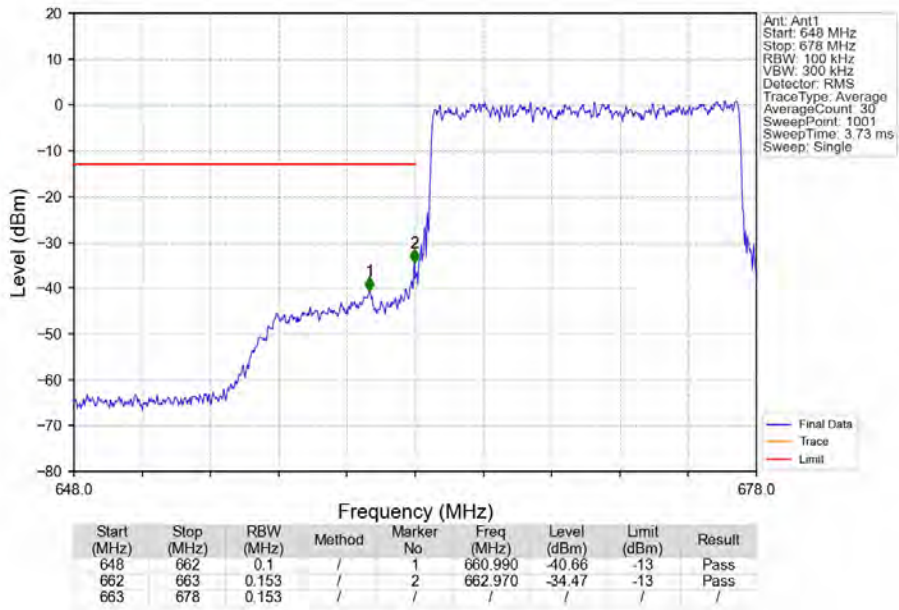
Band: 71 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	670.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	690.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	670.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	690.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



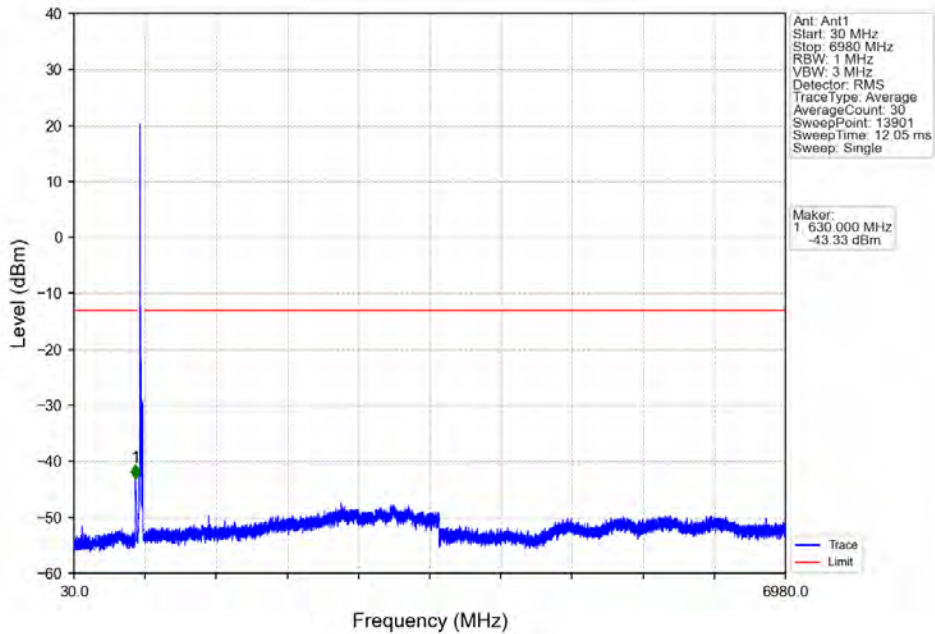
6.3.2 Test Graph



Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV

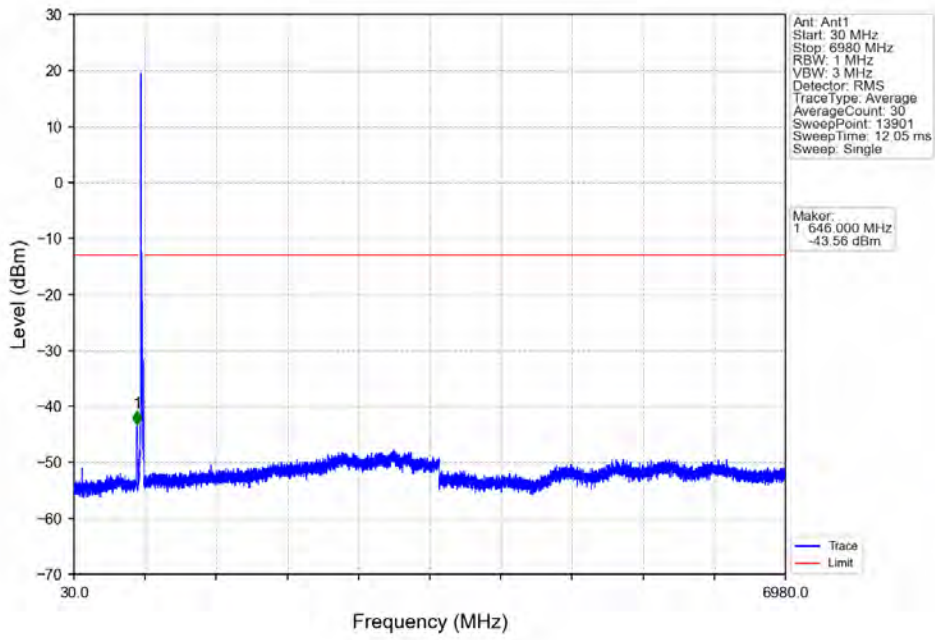


Band71\_15MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV

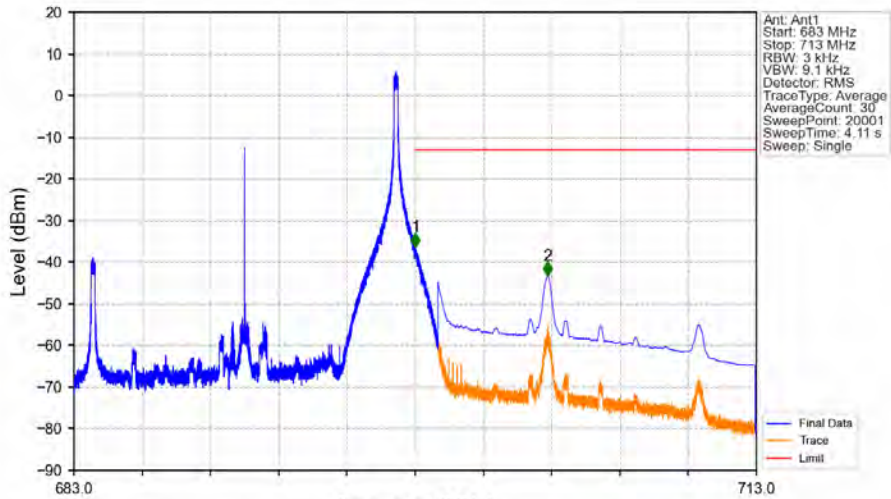




Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_1\_0\_NTNV

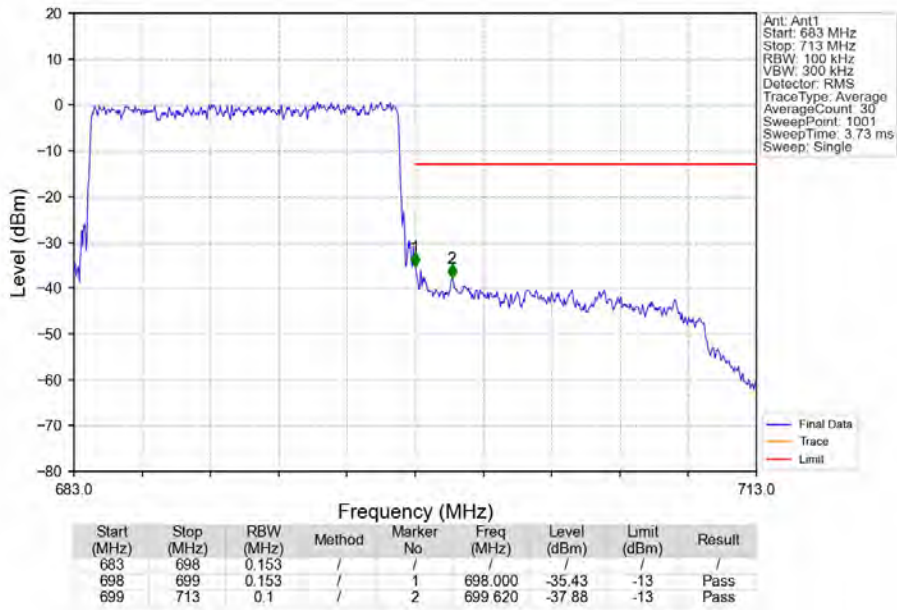


Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_1\_74\_NTNV

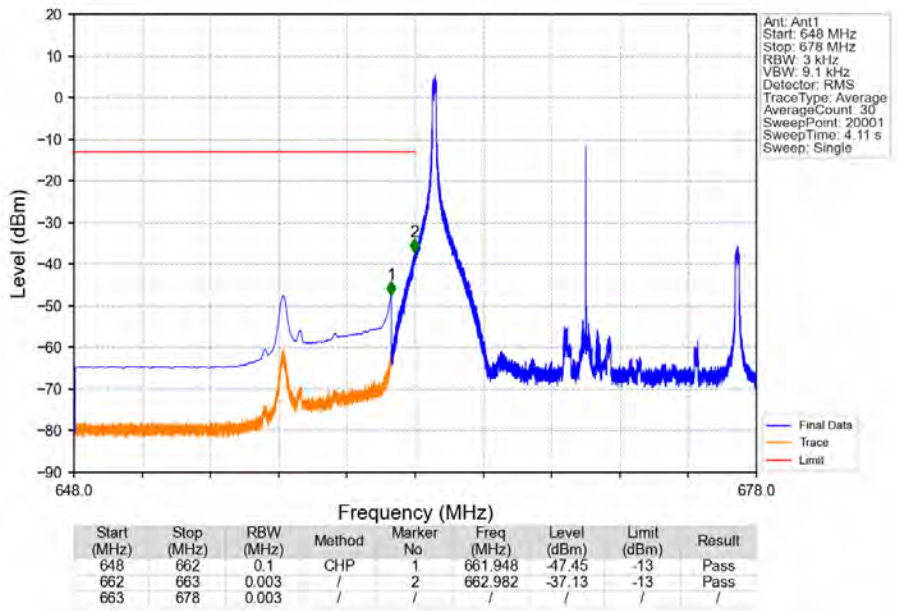


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.003	/	1	698.005	-36.38	-13	Pass
698	699	0.003	/	2	703.818	-43.21	-13	Pass
699	713	0.1	CHP					

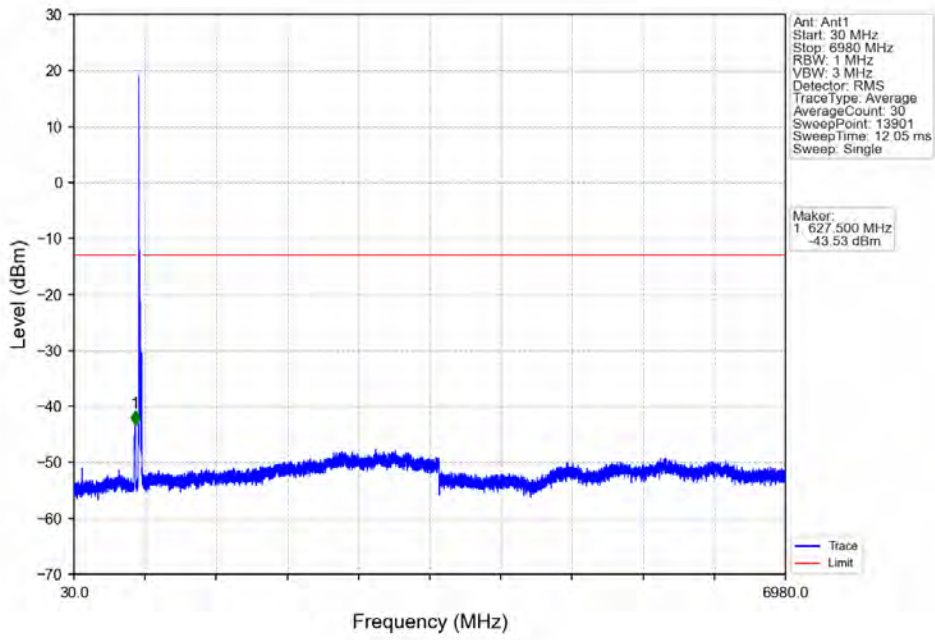
Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



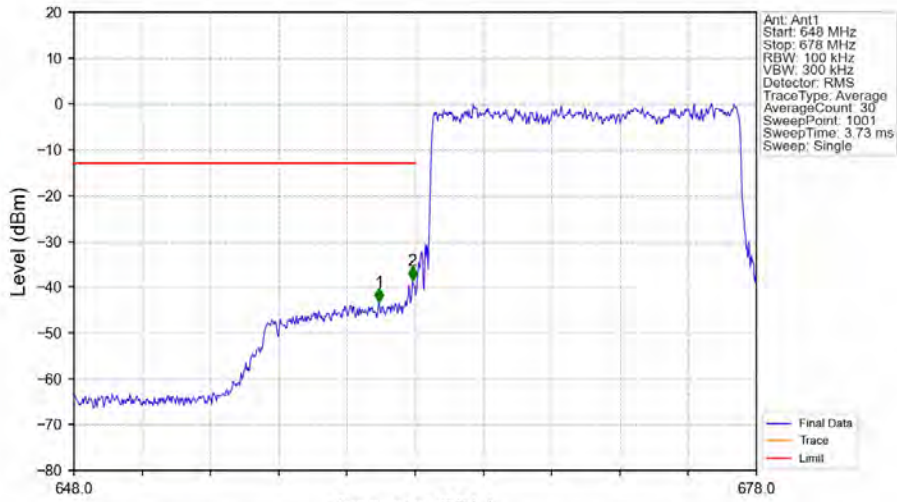
Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_1\_0\_NTNV



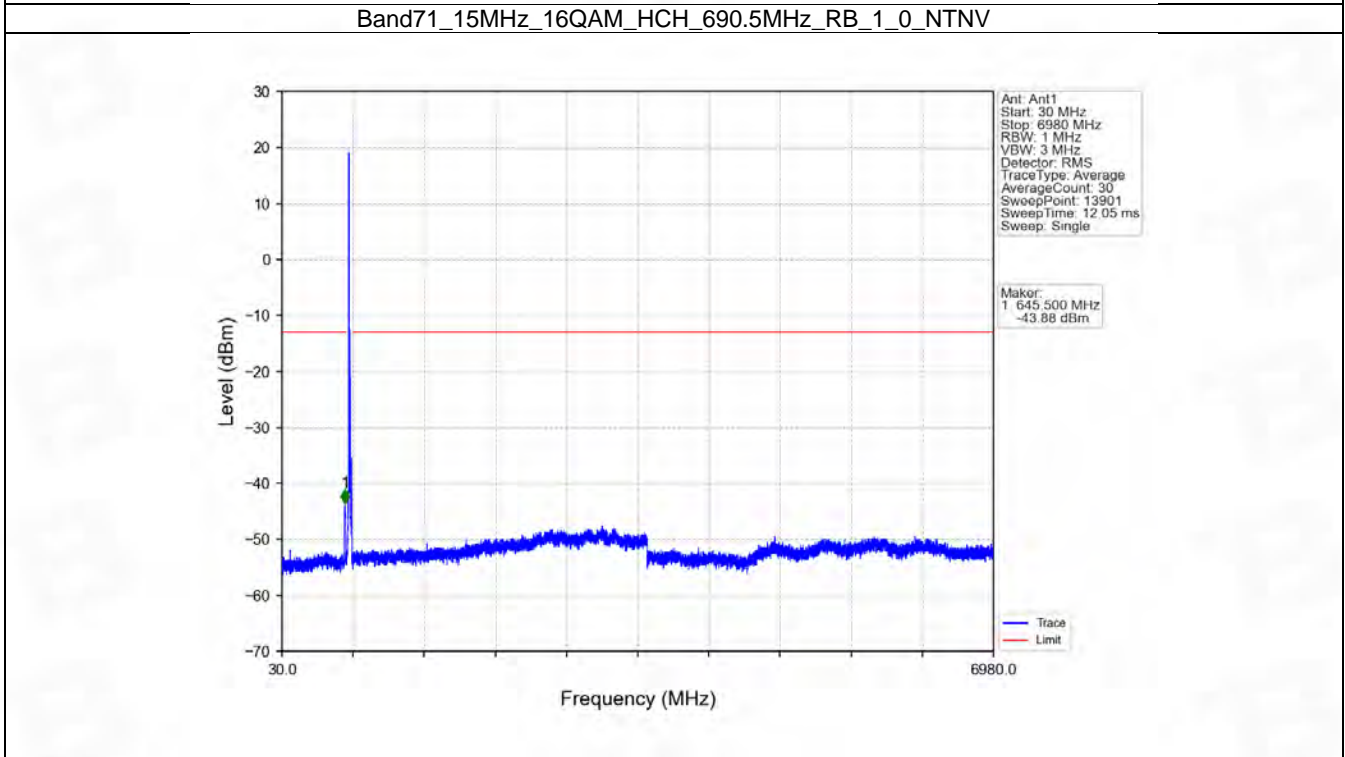
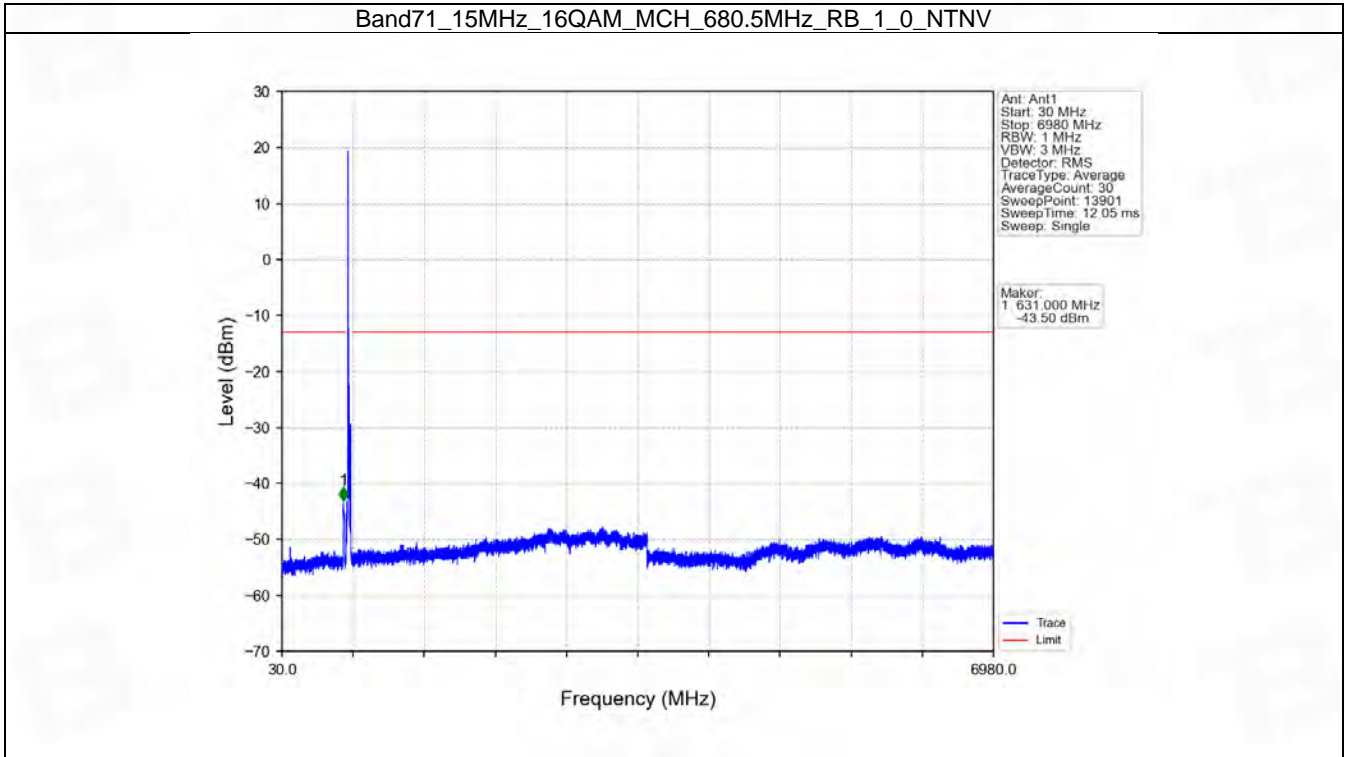
Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_1\_0\_NTNV



Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV

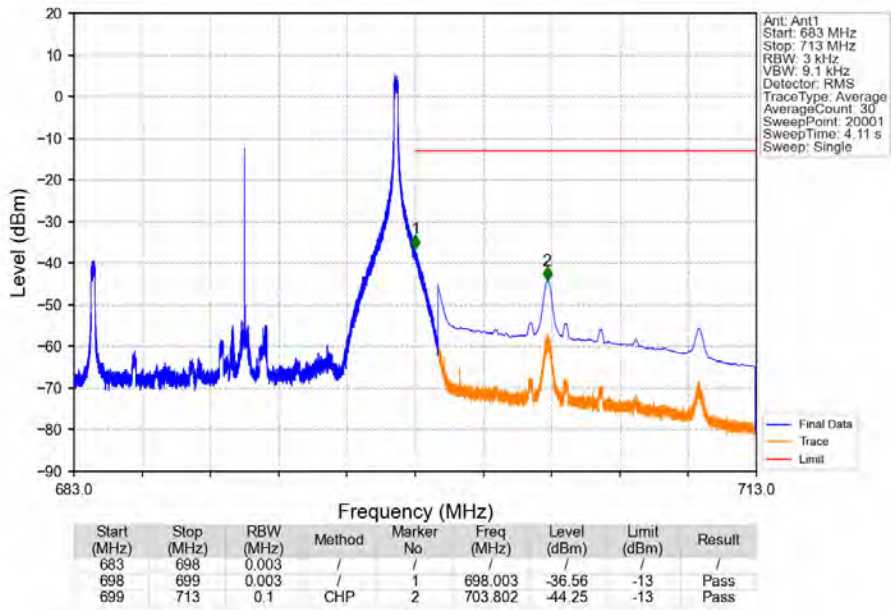


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662	0.1	/	1	661.410	-43.30	-13	Pass
662	663	0.152	/	2	662.880	-38.63	-13	Pass
663	678	0.152	/	/	/	/	/	/

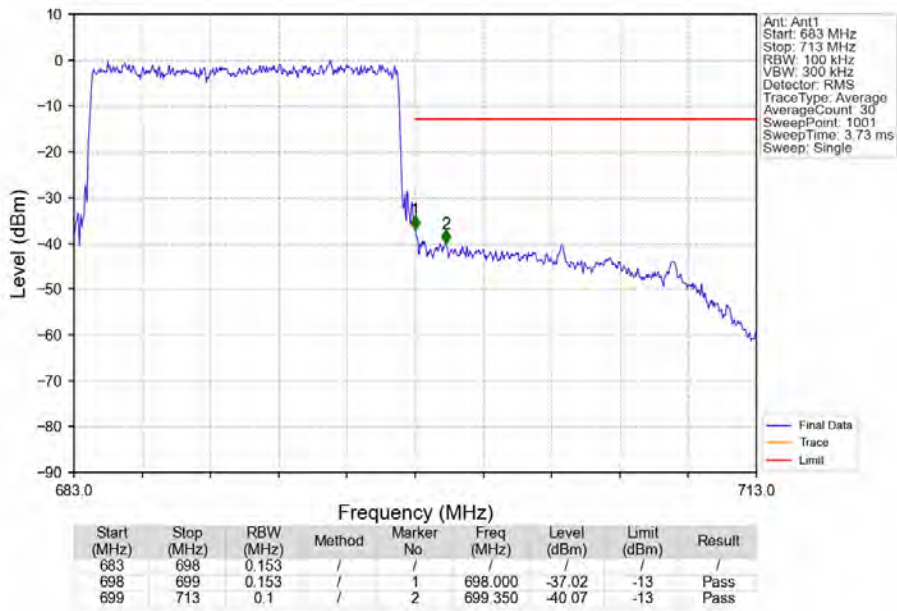




Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_1\_74\_NTNV



Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV

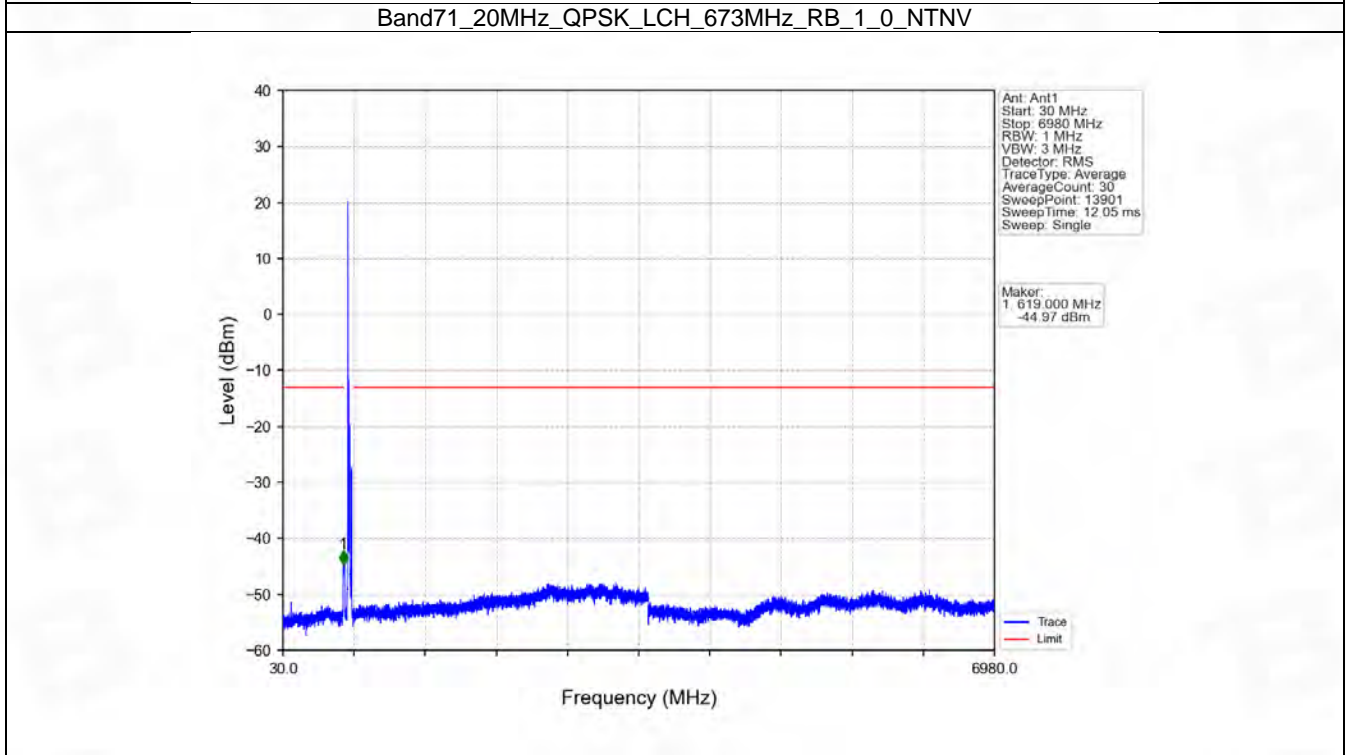
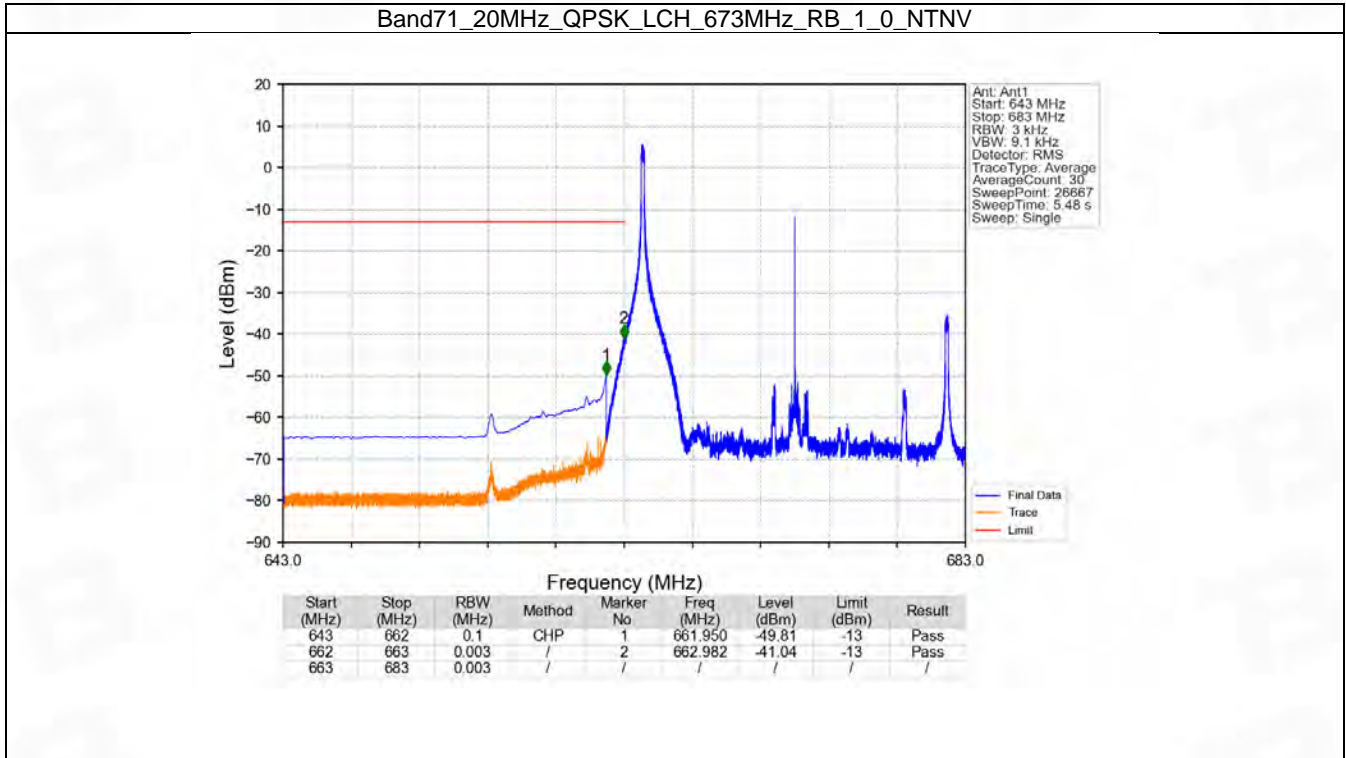


6.4 B71\_20MHz

6.4.1 Test Result

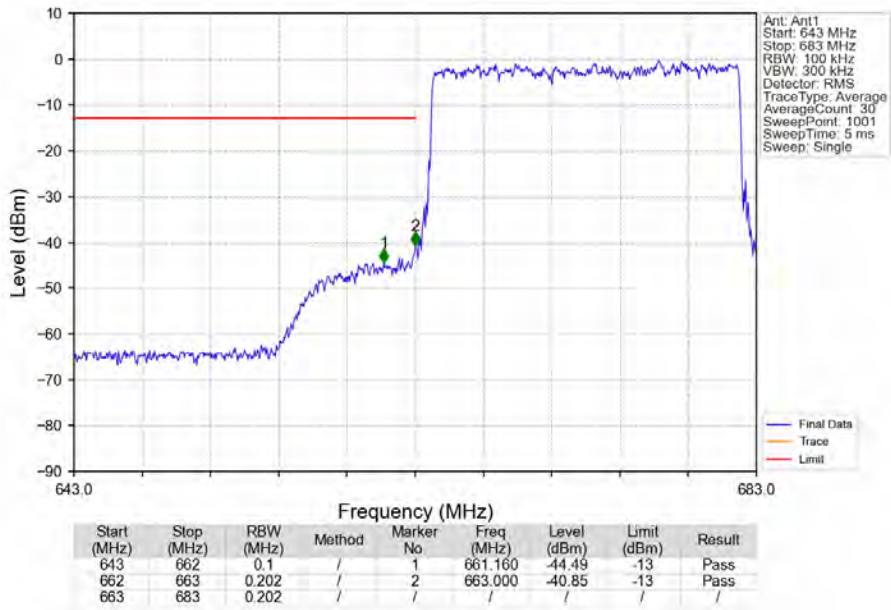
Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	683	1	0	Refer To Test Graph		Pass
		688	1	0	Refer To Test Graph	
				99	Refer To Test Graph	
			100	0	Refer To Test Graph	
16QAM	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	683	1	0	Refer To Test Graph		Pass
		688	1	0	Refer To Test Graph	
				99	Refer To Test Graph	
			100	0	Refer To Test Graph	

6.4.2 Test Graph

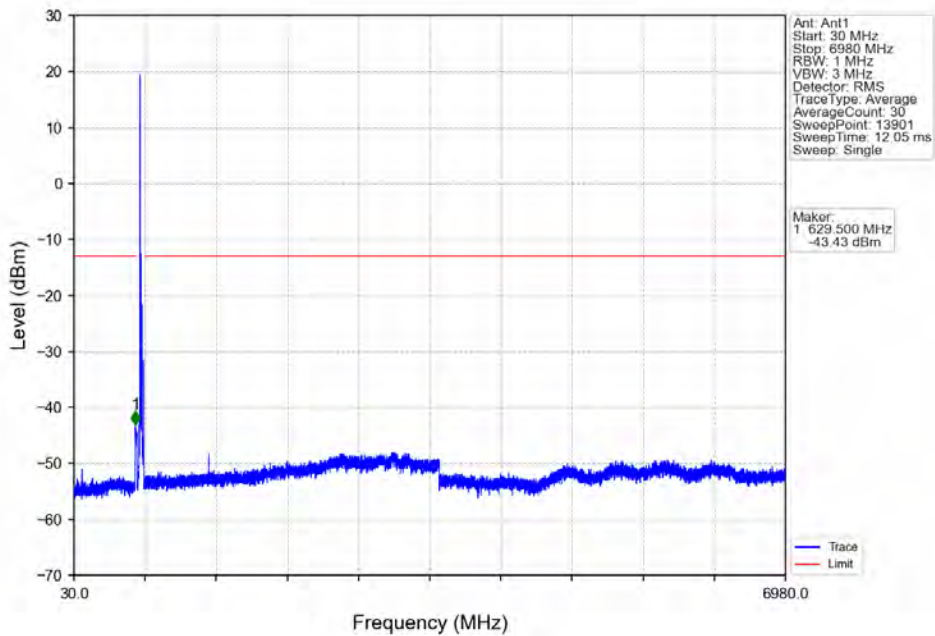




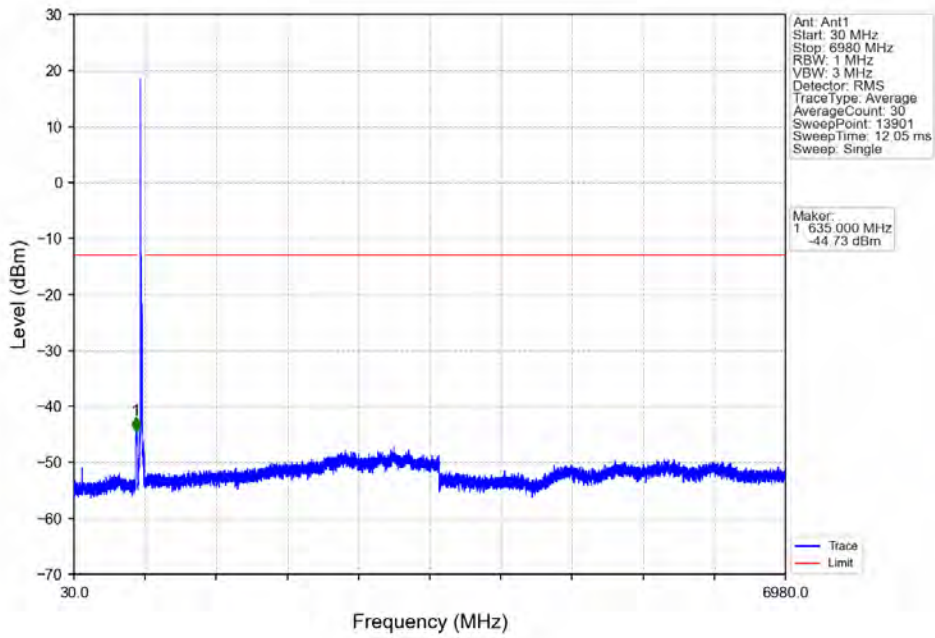
Band71\_20MHz\_QPSK\_LCH\_673MHz\_RB\_100\_0\_NTNV



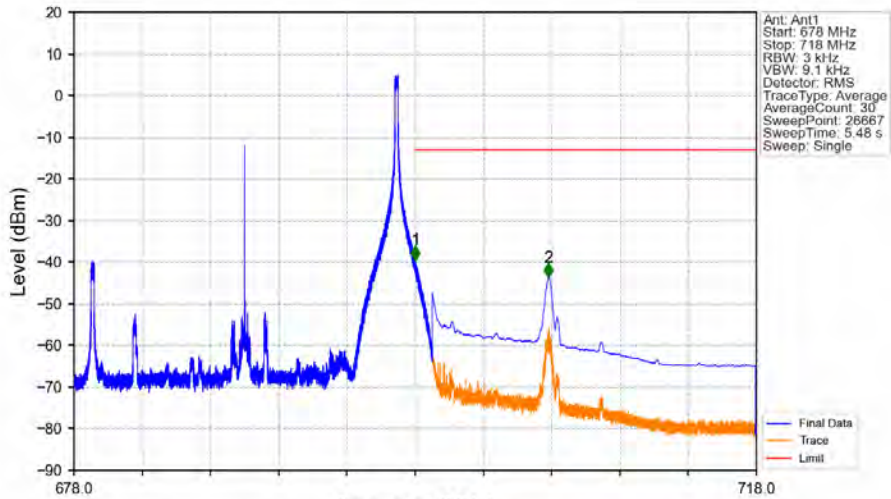
Band71\_20MHz\_QPSK\_MCH\_683MHz\_RB\_1\_0\_NTNV



Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_1\_0\_NTNV

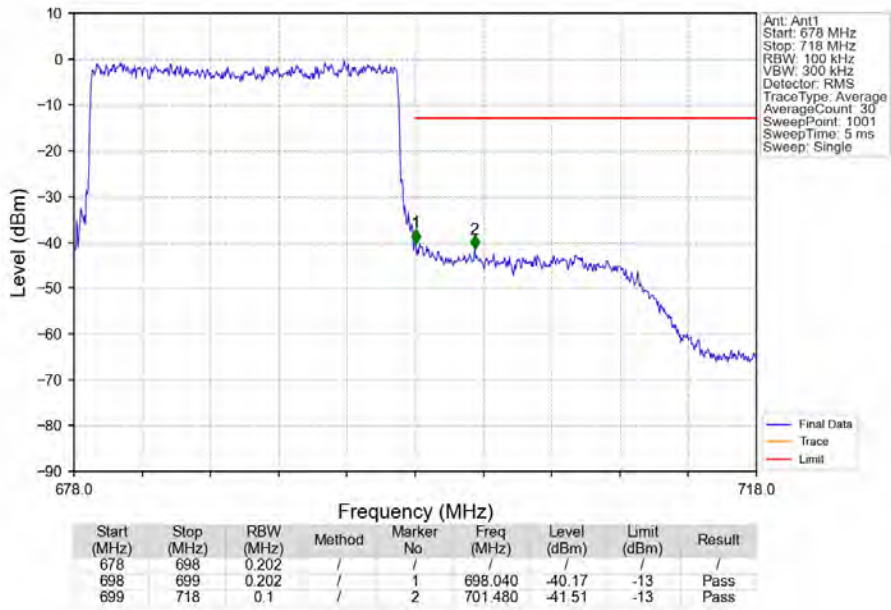


Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_1\_99\_NTNV

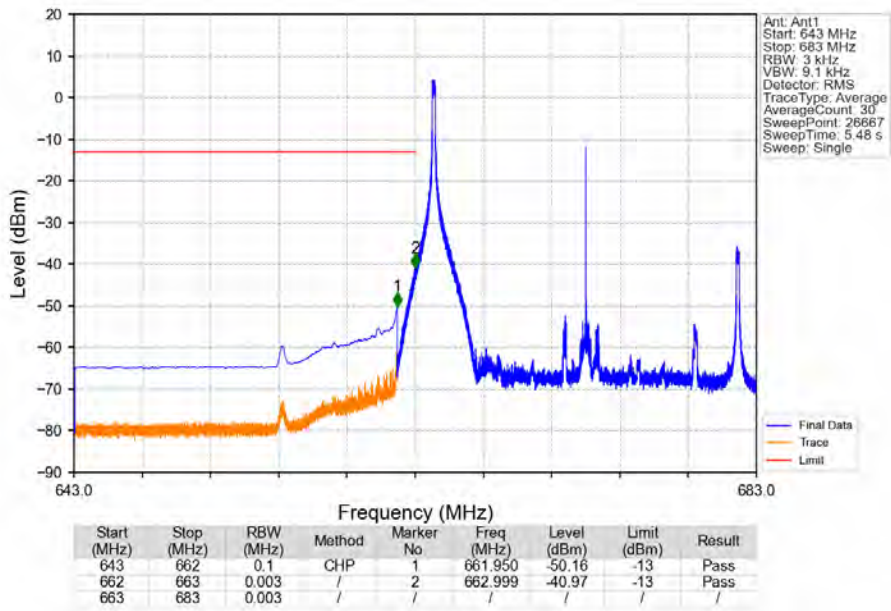


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.003	/	1	698.008	-39.46	-13	Pass
698	699	0.003	/	1	698.008	-39.46	-13	Pass
699	718	0.1	CHP	2	705.818	-43.67	-13	Pass

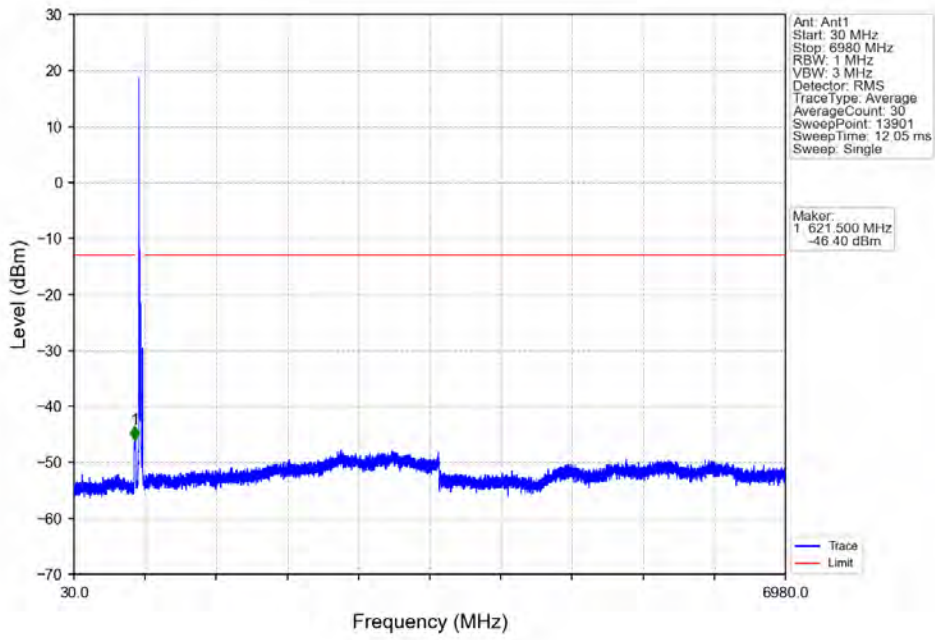
Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



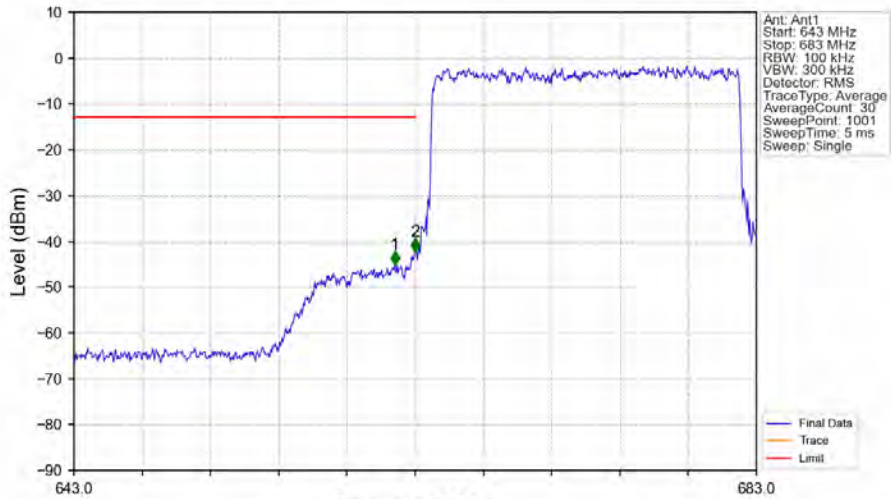
Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_1\_0\_NTNV



Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_1\_0\_NTNV

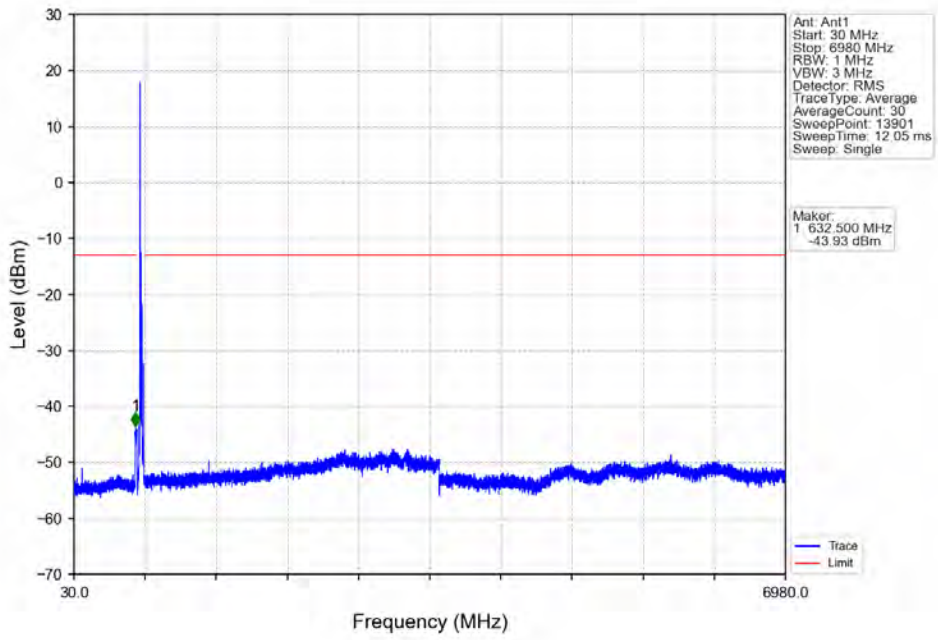


Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV

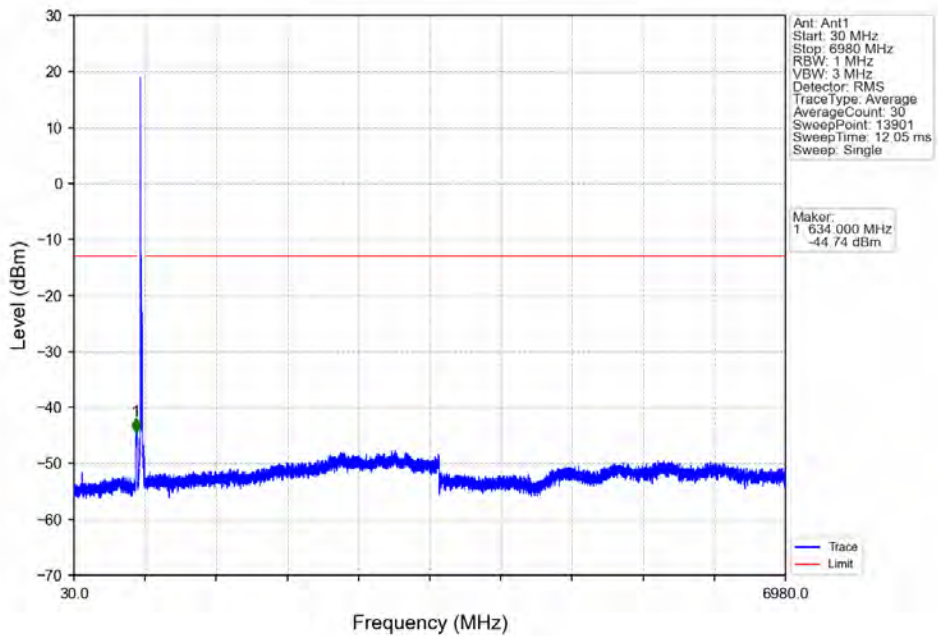


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662	0.1	/	1	661.800	-45.13	-13	Pass
662	663	0.203	/	2	663.000	-42.31	-13	Pass
663	683	0.203	/	/	/	/	/	/

Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_1\_0\_NTNV

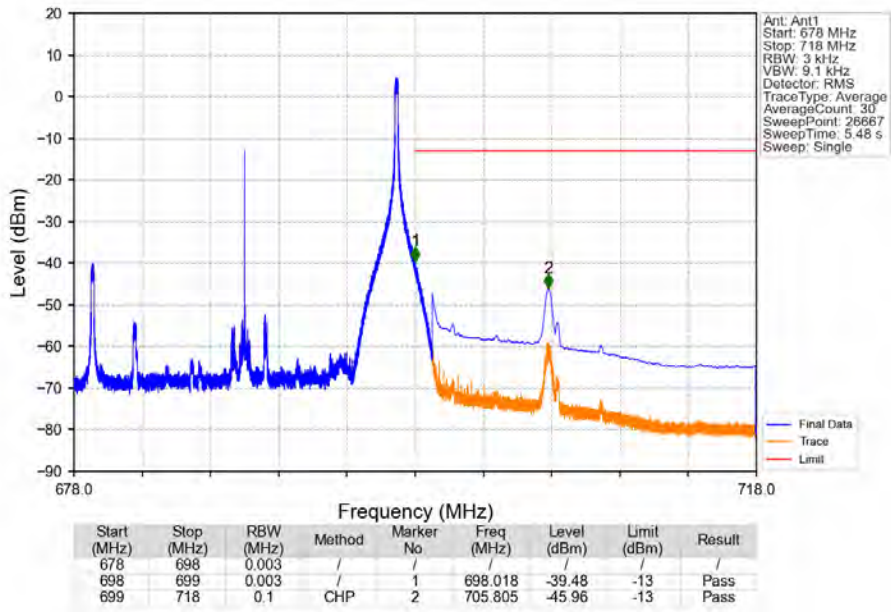


Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_1\_0\_NTNV

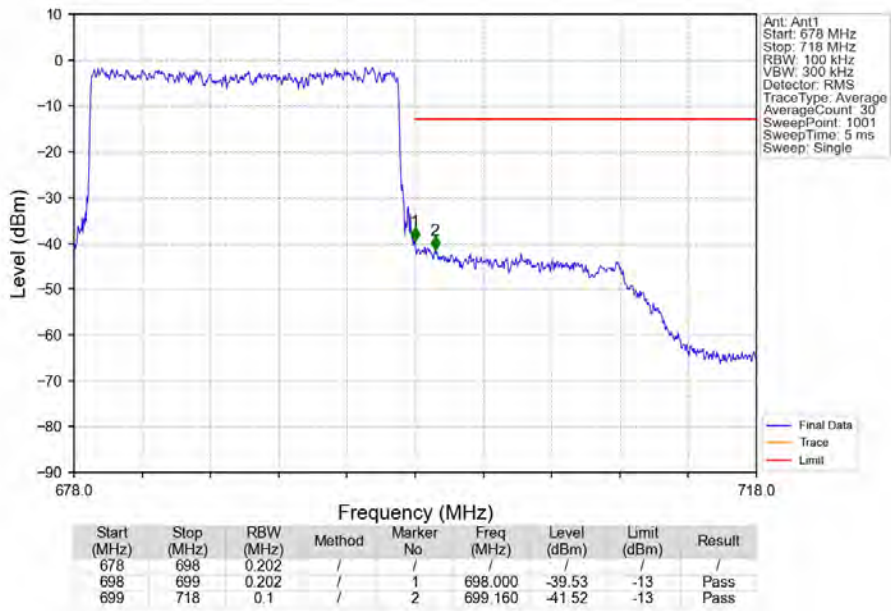




Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_1\_99\_NTNV



Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



## 7. Form731

### 7.1 Form731\_Power

#### 7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
71	5	665.5	695.5	0.1469	0.0153	ppm	4M59G7D	27N	21.67
71	5	665.5	695.5	0.1227	0.0195	ppm	4M58W7D	27N	20.89
71	10	668	693	0.1535	0.0134	ppm	9M09G7D	27N	21.86
71	10	668	693	0.1297	0.0163	ppm	9M07W7D	27N	21.13
71	15	670.5	690.5	0.1462	0.0147	ppm	13M6G7D	27N	21.65
71	15	670.5	690.5	0.1151	0.0140	ppm	13M6W7D	27N	20.61
71	20	673	688	0.1483	0.0150	ppm	18M2G7D	27N	21.71
71	20	673	688	0.1274	0.0144	ppm	18M2W7D	27N	21.05

### 7.2 Form731\_ERP

#### 7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
71	5	665.5	695.5	0.0968	0.0153	ppm	4M59G7D	27N	19.86
71	5	665.5	695.5	0.0809	0.0195	ppm	4M58W7D	27N	19.08
71	10	668	693	0.1012	0.0134	ppm	9M09G7D	27N	20.05
71	10	668	693	0.0855	0.0163	ppm	9M07W7D	27N	19.32
71	15	670.5	690.5	0.0964	0.0147	ppm	13M6G7D	27N	19.84
71	15	670.5	690.5	0.0759	0.0140	ppm	13M6W7D	27N	18.80
71	20	673	688	0.0977	0.0150	ppm	18M2G7D	27N	19.90
71	20	673	688	0.0839	0.0144	ppm	18M2W7D	27N	19.24