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Appendix B.22

LTE Band 71



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B71_5MHz_ERPAnt0

1.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	665.5	1	0	23.96	-0.10	21.71	<=34.77	Pass
			13	24.04	-0.10	21.79	<=34.77	Pass
			24	23.96	-0.10	21.71	<=34.77	Pass
		12	0	22.87	-0.10	20.62	<=34.77	Pass
			6	23.04	-0.10	20.79	<=34.77	Pass
			13	23.09	-0.10	20.84	<=34.77	Pass
		25	0	22.99	-0.10	20.74	<=34.77	Pass
	680.5	1	0	23.82	-0.10	21.57	<=34.77	Pass
			13	23.88	-0.10	21.63	<=34.77	Pass
			24	23.65	-0.10	21.40	<=34.77	Pass
		12	0	22.76	-0.10	20.51	<=34.77	Pass
			6	22.85	-0.10	20.60	<=34.77	Pass
			13	22.76	-0.10	20.51	<=34.77	Pass
		25	0	22.79	-0.10	20.54	<=34.77	Pass
	695.5	1	0	23.37	-0.10	21.12	<=34.77	Pass
			13	23.39	-0.10	21.14	<=34.77	Pass
			24	23.30	-0.10	21.05	<=34.77	Pass
		12	0	22.42	-0.10	20.17	<=34.77	Pass
			6	22.40	-0.10	20.15	<=34.77	Pass
			13	22.31	-0.10	20.06	<=34.77	Pass
		25	0	22.40	-0.10	20.15	<=34.77	Pass
16QAM	665.5	1	0	22.97	-0.10	20.72	<=34.77	Pass
			13	23.08	-0.10	20.83	<=34.77	Pass
			24	23.02	-0.10	20.77	<=34.77	Pass
		12	0	21.84	-0.10	19.59	<=34.77	Pass
			6	22.00	-0.10	19.75	<=34.77	Pass
			13	22.07	-0.10	19.82	<=34.77	Pass
		25	0	22.03	-0.10	19.78	<=34.77	Pass
	680.5	1	0	22.94	-0.10	20.69	<=34.77	Pass
			13	22.99	-0.10	20.74	<=34.77	Pass
			24	22.80	-0.10	20.55	<=34.77	Pass
		12	0	21.76	-0.10	19.51	<=34.77	Pass
			6	21.86	-0.10	19.61	<=34.77	Pass
			13	21.76	-0.10	19.51	<=34.77	Pass
		25	0	21.82	-0.10	19.57	<=34.77	Pass
	695.5	1	0	22.51	-0.10	20.26	<=34.77	Pass
			13	22.58	-0.10	20.33	<=34.77	Pass
			24	22.47	-0.10	20.22	<=34.77	Pass
		12	0	21.42	-0.10	19.17	<=34.77	Pass



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			6	21.43	-0.10	19.18	<=34.77	Pass
			13	21.29	-0.10	19.04	<=34.77	Pass
		25	0	21.36	-0.10	19.11	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.2 B71_10MHz_ERP

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	23.99	-0.10	21.74	<=34.77	Pass		
			25	24.07	-0.10	21.82	<=34.77	Pass		
			49	23.92	-0.10	21.67	<=34.77	Pass		
		25	0	22.84	-0.10	20.59	<=34.77	Pass		
			13	23.05	-0.10	20.80	<=34.77	Pass		
			25	22.95	-0.10	20.70	<=34.77	Pass		
		50	0	22.83	-0.10	20.58	<=34.77	Pass		
		680.5	1	0	23.91	-0.10	21.66	<=34.77	Pass	
				25	23.94	-0.10	21.69	<=34.77	Pass	
	49			23.68	-0.10	21.43	<=34.77	Pass		
	25		0	22.85	-0.10	20.60	<=34.77	Pass		
			13	22.83	-0.10	20.58	<=34.77	Pass		
			25	22.81	-0.10	20.56	<=34.77	Pass		
	50		0	22.83	-0.10	20.58	<=34.77	Pass		
	693		1	0	23.51	-0.10	21.26	<=34.77	Pass	
				25	23.50	-0.10	21.25	<=34.77	Pass	
		49		23.29	-0.10	21.04	<=34.77	Pass		
		25	0	22.60	-0.10	20.35	<=34.77	Pass		
			13	22.46	-0.10	20.21	<=34.77	Pass		
			25	22.35	-0.10	20.10	<=34.77	Pass		
		50	0	22.44	-0.10	20.19	<=34.77	Pass		
		16QAM	668	1	0	23.14	-0.10	20.89	<=34.77	Pass
					25	23.26	-0.10	21.01	<=34.77	Pass
	49				23.12	-0.10	20.87	<=34.77	Pass	
	25			0	21.84	-0.10	19.59	<=34.77	Pass	
				13	22.05	-0.10	19.80	<=34.77	Pass	
25				21.95	-0.10	19.70	<=34.77	Pass		
50	0			21.87	-0.10	19.62	<=34.77	Pass		
680.5	1			0	22.78	-0.10	20.53	<=34.77	Pass	
				25	22.78	-0.10	20.53	<=34.77	Pass	
			49	22.56	-0.10	20.31	<=34.77	Pass		
	25		0	21.88	-0.10	19.63	<=34.77	Pass		
			13	21.86	-0.10	19.61	<=34.77	Pass		
			25	21.84	-0.10	19.59	<=34.77	Pass		
50	0		21.79	-0.10	19.54	<=34.77	Pass			



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	693	1	0	22.73	-0.10	20.48	<=34.77	Pass
			25	22.68	-0.10	20.43	<=34.77	Pass
			49	22.49	-0.10	20.24	<=34.77	Pass
		25	0	21.61	-0.10	19.36	<=34.77	Pass
			13	21.50	-0.10	19.25	<=34.77	Pass
			25	21.36	-0.10	19.11	<=34.77	Pass
		50	0	21.46	-0.10	19.21	<=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								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	670.5	1	0	23.96	-0.10	21.71	<=34.77	Pass
			38	24.00	-0.10	21.75	<=34.77	Pass
			74	23.75	-0.10	21.50	<=34.77	Pass
		36	0	22.94	-0.10	20.69	<=34.77	Pass
			18	23.05	-0.10	20.80	<=34.77	Pass
			39	22.98	-0.10	20.73	<=34.77	Pass
		75	0	22.92	-0.10	20.67	<=34.77	Pass
	680.5	1	0	23.91	-0.10	21.66	<=34.77	Pass
			38	23.86	-0.10	21.61	<=34.77	Pass
			74	23.56	-0.10	21.31	<=34.77	Pass
		36	0	22.89	-0.10	20.64	<=34.77	Pass
			18	22.81	-0.10	20.56	<=34.77	Pass
			39	22.78	-0.10	20.53	<=34.77	Pass
		75	0	22.84	-0.10	20.59	<=34.77	Pass
	690.5	1	0	23.60	-0.10	21.35	<=34.77	Pass
			38	23.48	-0.10	21.23	<=34.77	Pass
			74	23.24	-0.10	20.99	<=34.77	Pass
		36	0	22.69	-0.10	20.44	<=34.77	Pass
			18	22.60	-0.10	20.35	<=34.77	Pass
			39	22.43	-0.10	20.18	<=34.77	Pass
		75	0	22.56	-0.10	20.31	<=34.77	Pass
16QAM	670.5	1	0	23.12	-0.10	20.87	<=34.77	Pass
			38	23.19	-0.10	20.94	<=34.77	Pass
			74	22.92	-0.10	20.67	<=34.77	Pass
		36	0	21.87	-0.10	19.62	<=34.77	Pass
			18	21.99	-0.10	19.74	<=34.77	Pass
			39	21.84	-0.10	19.59	<=34.77	Pass
		75	0	21.85	-0.10	19.60	<=34.77	Pass
	680.5	1	0	22.83	-0.10	20.58	<=34.77	Pass
			38	22.76	-0.10	20.51	<=34.77	Pass
			74	22.42	-0.10	20.17	<=34.77	Pass



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		36	0	21.80	-0.10	19.55	<=34.77	Pass
			18	21.77	-0.10	19.52	<=34.77	Pass
			39	21.68	-0.10	19.43	<=34.77	Pass
		75	0	21.81	-0.10	19.56	<=34.77	Pass
	690.5	1	0	22.92	-0.10	20.67	<=34.77	Pass
			38	22.78	-0.10	20.53	<=34.77	Pass
			74	22.51	-0.10	20.26	<=34.77	Pass
		36	0	21.70	-0.10	19.45	<=34.77	Pass
			18	21.59	-0.10	19.34	<=34.77	Pass
			39	21.46	-0.10	19.21	<=34.77	Pass
		75	0	21.56	-0.10	19.31	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

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	23.98	-0.10	21.73	<=34.77	Pass
			50	24.19	-0.10	21.94	<=34.77	Pass
			99	23.61	-0.10	21.36	<=34.77	Pass
		50	0	22.78	-0.10	20.53	<=34.77	Pass
			25	22.93	-0.10	20.68	<=34.77	Pass
			50	22.96	-0.10	20.71	<=34.77	Pass
		100	0	22.85	-0.10	20.60	<=34.77	Pass
	683	1	0	23.75	-0.10	21.50	<=34.77	Pass
			50	23.72	-0.10	21.47	<=34.77	Pass
			99	23.23	-0.10	20.98	<=34.77	Pass
		50	0	22.73	-0.10	20.48	<=34.77	Pass
			25	22.70	-0.10	20.45	<=34.77	Pass
			50	22.56	-0.10	20.31	<=34.77	Pass
		100	0	22.65	-0.10	20.40	<=34.77	Pass
	688	1	0	23.76	-0.10	21.51	<=34.77	Pass
			50	23.63	-0.10	21.38	<=34.77	Pass
			99	23.24	-0.10	20.99	<=34.77	Pass
		50	0	22.59	-0.10	20.34	<=34.77	Pass
			25	22.67	-0.10	20.42	<=34.77	Pass
			50	22.39	-0.10	20.14	<=34.77	Pass
		100	0	22.50	-0.10	20.25	<=34.77	Pass
16QAM	673	1	0	23.09	-0.10	20.84	<=34.77	Pass
			50	23.19	-0.10	20.94	<=34.77	Pass
			99	22.76	-0.10	20.51	<=34.77	Pass
		50	0	21.78	-0.10	19.53	<=34.77	Pass
			25	21.91	-0.10	19.66	<=34.77	Pass
			50	21.91	-0.10	19.66	<=34.77	Pass



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	683	100	0	21.88	-0.10	19.63	<=34.77	Pass
		1	0	22.89	-0.10	20.64	<=34.77	Pass
			50	22.85	-0.10	20.60	<=34.77	Pass
			99	22.38	-0.10	20.13	<=34.77	Pass
			0	21.78	-0.10	19.53	<=34.77	Pass
		50	25	21.80	-0.10	19.55	<=34.77	Pass
			50	21.62	-0.10	19.37	<=34.77	Pass
		100	0	21.64	-0.10	19.39	<=34.77	Pass
	688	1	0	22.83	-0.10	20.58	<=34.77	Pass
			50	22.81	-0.10	20.56	<=34.77	Pass
			99	22.36	-0.10	20.11	<=34.77	Pass
			0	21.60	-0.10	19.35	<=34.77	Pass
		50	25	21.67	-0.10	19.42	<=34.77	Pass
			50	21.42	-0.10	19.17	<=34.77	Pass
			100	21.48	-0.10	19.23	<=34.77	Pass
		100	0	21.48	-0.10	19.23	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

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	8	-2.720	-0.0040	/	Pass
					12	-3.799	-0.0056	/	Pass
					16	-3.290	-0.0049	/	Pass
				-30	12	-3.623	-0.0054	/	Pass
				-20	12	-6.089	-0.0090	/	Pass
				-10	12	-4.308	-0.0064	/	Pass
				0	12	-3.947	-0.0059	/	Pass
				10	12	-0.880	-0.0013	/	Pass
				30	12	1.418	0.0021	/	Pass
				40	12	-2.931	-0.0044	/	Pass
	683	100	0	20	8	-8.871	-0.0132	/	Pass
					12	-8.474	-0.0124	/	Pass
					16	-8.074	-0.0118	/	Pass
				-30	12	-8.763	-0.0128	/	Pass
				-20	12	-8.432	-0.0123	/	Pass
				-10	12	-8.013	-0.0117	/	Pass
				0	12	-8.618	-0.0126	/	Pass
				10	12	-6.591	-0.0097	/	Pass
				30	12	-12.581	-0.0184	/	Pass
				40	12	-7.653	-0.0112	/	Pass
	688	100	0	20	8	-8.617	-0.0126	/	Pass
					12	-7.753	-0.0114	/	Pass
					16	-7.534	-0.0150	/	Pass
				-30	12	-9.949	-0.0145	/	Pass
				-20	12	-8.342	-0.0121	/	Pass
				-10	12	-6.630	-0.0096	/	Pass
				0	12	-8.927	-0.0130	/	Pass
				10	12	-9.769	-0.0142	/	Pass
				30	12	-10.683	-0.0155	/	Pass
				40	12	-10.241	-0.0149	/	Pass
16QAM	673	100	0	20	8	-6.200	-0.0090	/	Pass
					12	-6.956	-0.0101	/	Pass
					16	-7.859	-0.0114	/	Pass
				-30	12	-11.343	-0.0169	/	Pass
				-20	12	-12.395	-0.0184	/	Pass
				-10	12	-9.608	-0.0143	/	Pass



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				0	12	-9.471	-0.0141	/	Pass
				10	12	-7.928	-0.0118	/	Pass
				30	12	-7.244	-0.0108	/	Pass
				40	12	-6.407	-0.0095	/	Pass
				50	12	-6.727	-0.0100	/	Pass
	683	100	0	20	8	-7.393	-0.0108	/	Pass
					12	-8.840	-0.0129	/	Pass
					16	-8.750	-0.0128	/	Pass
				-30	12	-10.645	-0.0156	/	Pass
				-20	12	-10.668	-0.0156	/	Pass
				-10	12	-9.257	-0.0136	/	Pass
				0	12	-11.617	-0.0170	/	Pass
				10	12	-9.683	-0.0142	/	Pass
				30	12	-11.320	-0.0166	/	Pass
				40	12	-9.730	-0.0142	/	Pass
				50	12	-9.715	-0.0142	/	Pass
	688	100	0	20	8	-9.403	-0.0137	/	Pass
					12	-9.757	-0.0142	/	Pass
					16	-12.764	-0.0186	/	Pass
				-30	12	-4.364	-0.0063	/	Pass
				-20	12	-6.935	-0.0101	/	Pass
				-10	12	-6.741	-0.0098	/	Pass
				0	12	-8.928	-0.0130	/	Pass
				10	12	-12.196	-0.0177	/	Pass
				30	12	-10.418	-0.0151	/	Pass
				40	12	-11.199	-0.0163	/	Pass
				50	12	-9.790	-0.0142	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band71_OBW

3.1.1 Test Result

Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	4.553	/	Pass
		680.5	25	0	4.557	/	Pass
		695.5	25	0	4.570	/	Pass
	16QAM	665.5	25	0	4.581	/	Pass
		680.5	25	0	4.591	/	Pass
		695.5	25	0	4.546	/	Pass
10	QPSK	668	50	0	9.057	/	Pass
		680.5	50	0	9.067	/	Pass
		693	50	0	9.047	/	Pass
	16QAM	668	50	0	9.039	/	Pass
		680.5	50	0	9.066	/	Pass
		693	50	0	9.082	/	Pass
15	QPSK	670.5	75	0	13.543	/	Pass
		680.5	75	0	13.599	/	Pass
		690.5	75	0	13.603	/	Pass
	16QAM	670.5	75	0	13.520	/	Pass
		680.5	75	0	13.594	/	Pass
		690.5	75	0	13.632	/	Pass
20	QPSK	673	100	0	18.091	/	Pass
		683	100	0	18.072	/	Pass
		688	100	0	18.087	/	Pass
	16QAM	673	100	0	18.073	/	Pass
		683	100	0	18.114	/	Pass
		688	100	0	18.072	/	Pass



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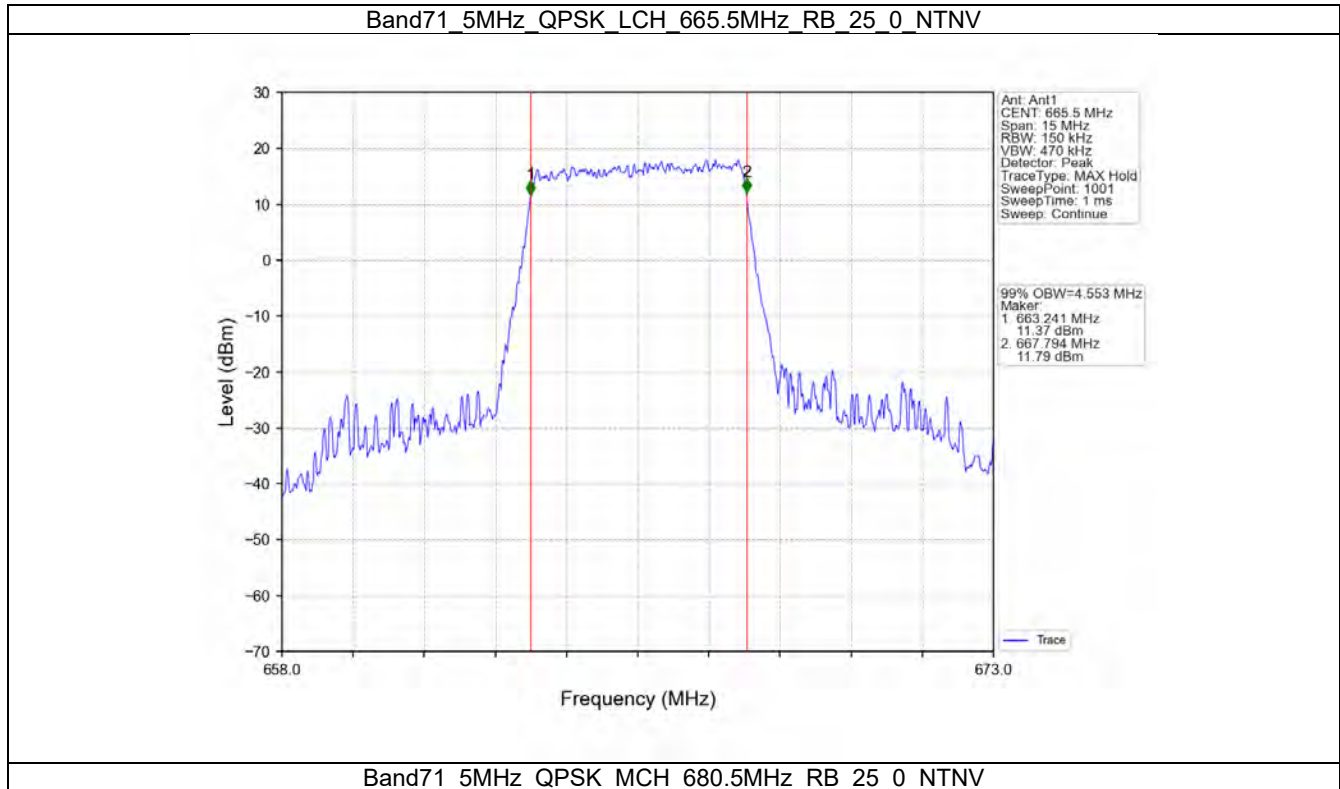
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3.1.2 Test Graph



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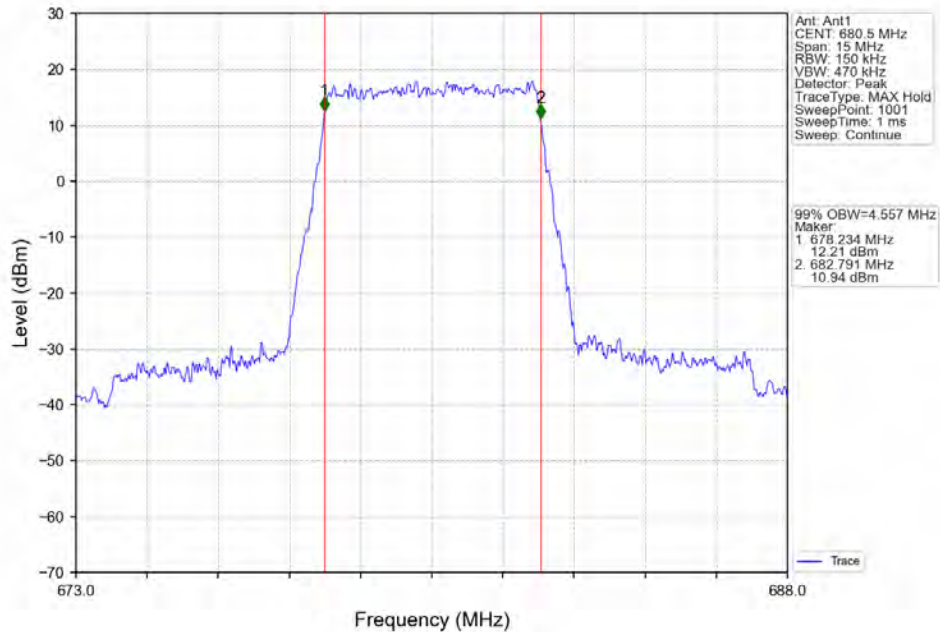
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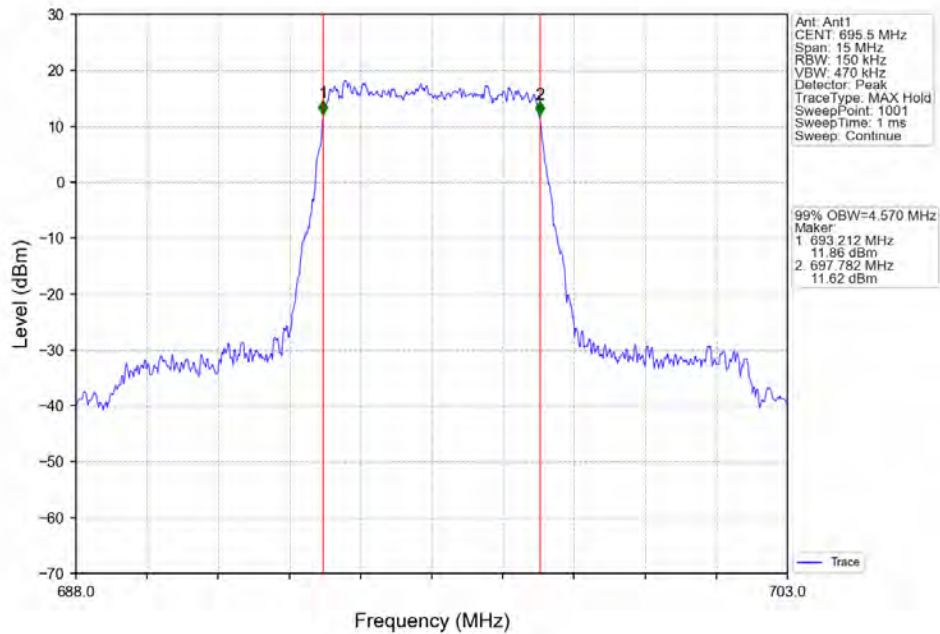
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Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



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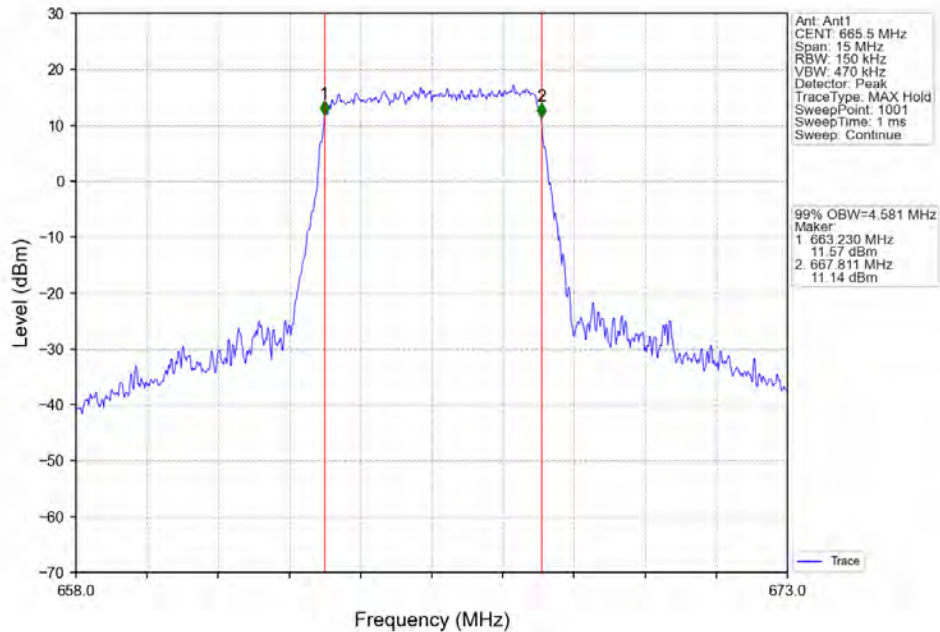
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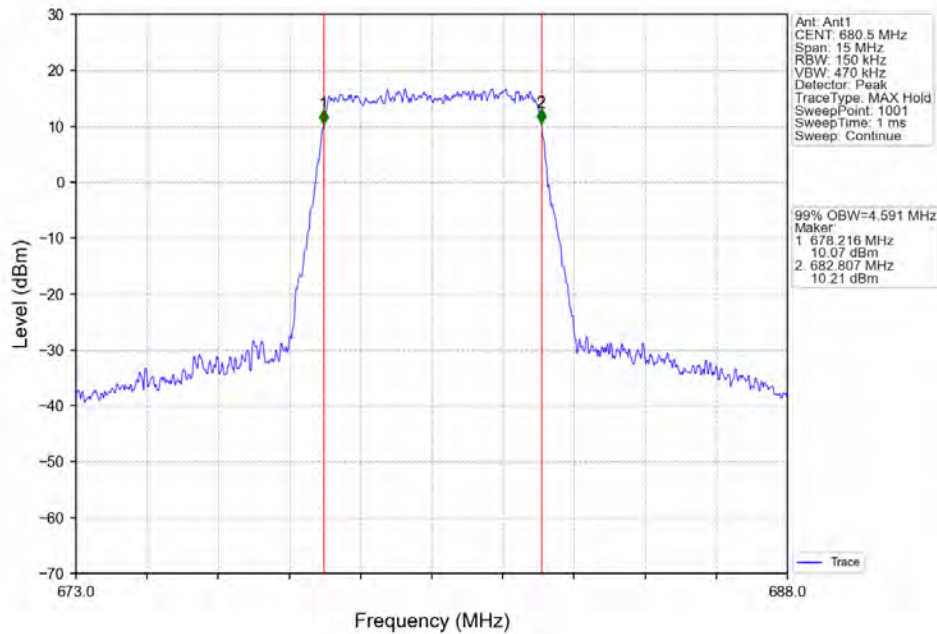
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Band71 5MHz 16QAM MCH 680.5MHz RB 25 0 NTNV



Band71 5MHz 16QAM HCH 695.5MHz RB 25 0 NTNV



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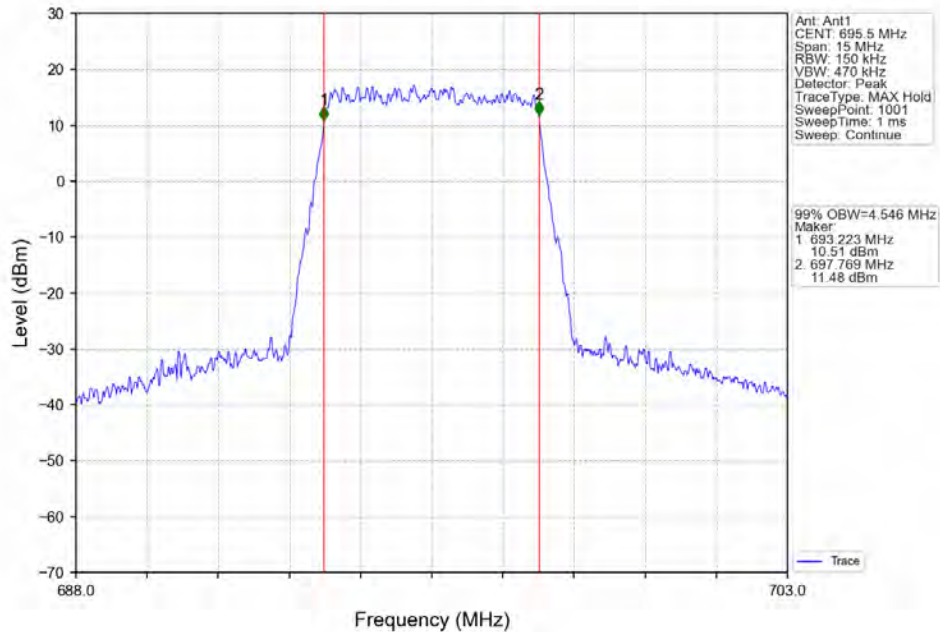
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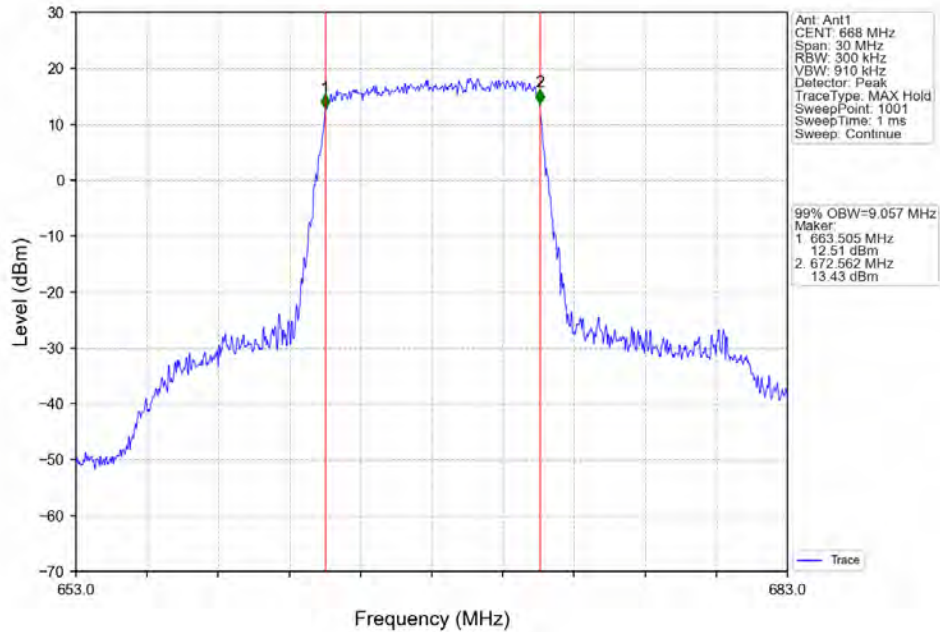
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Band71 10MHz QPSK LCH 668MHz RB 50 0 NTN



Band71 10MHz QPSK MCH 680.5MHz RB 50 0 NTN



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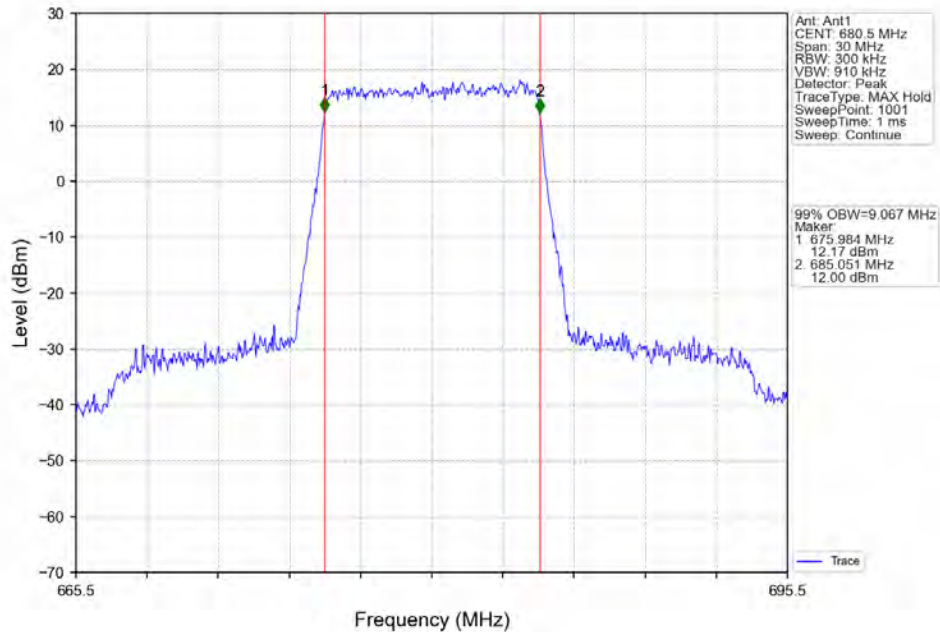
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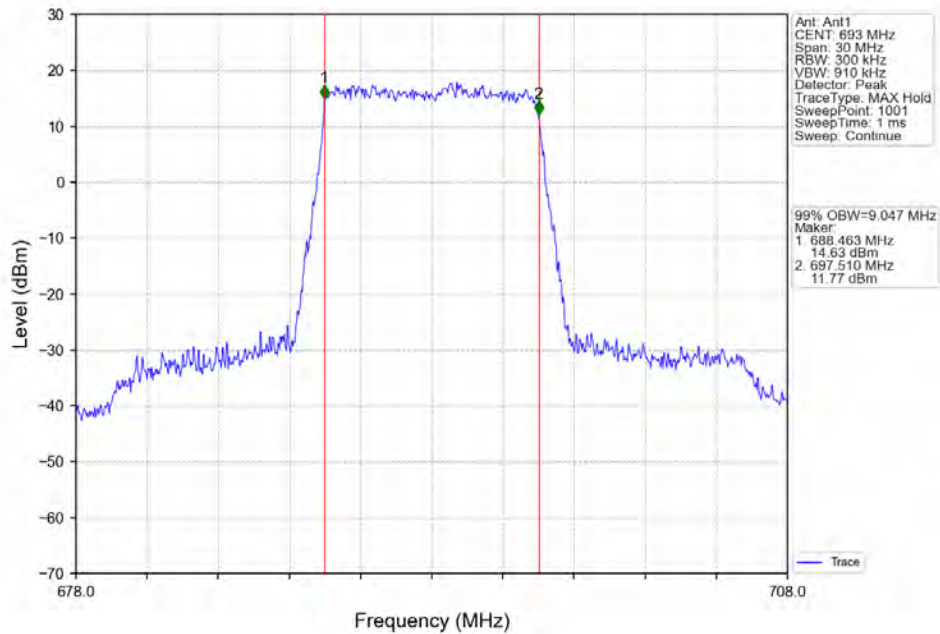
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Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



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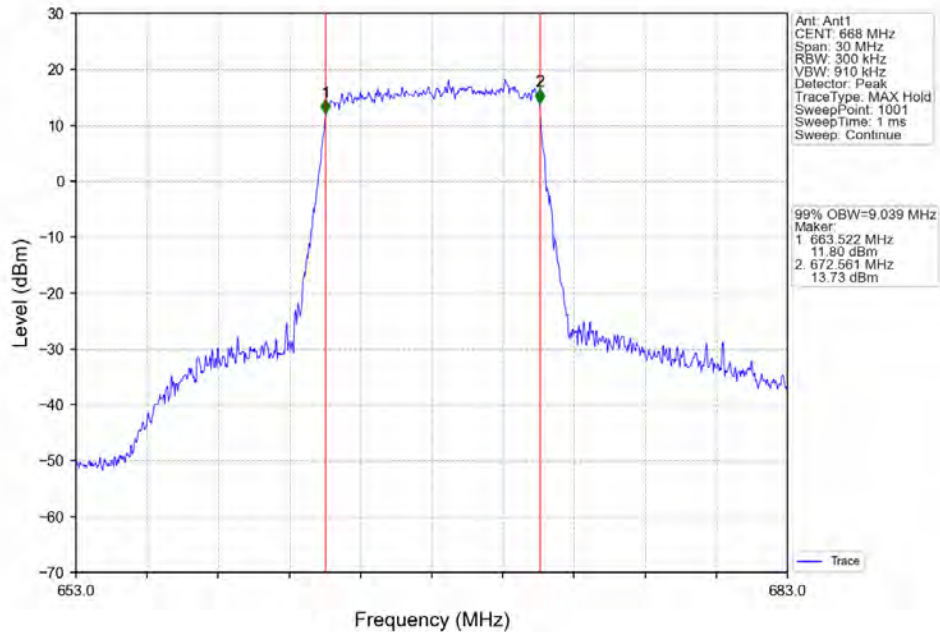
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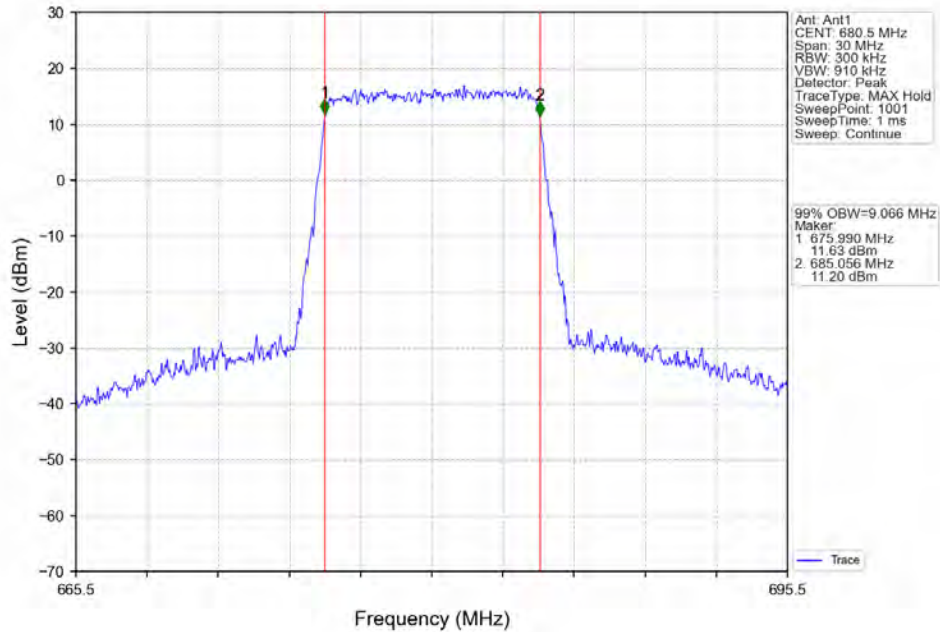
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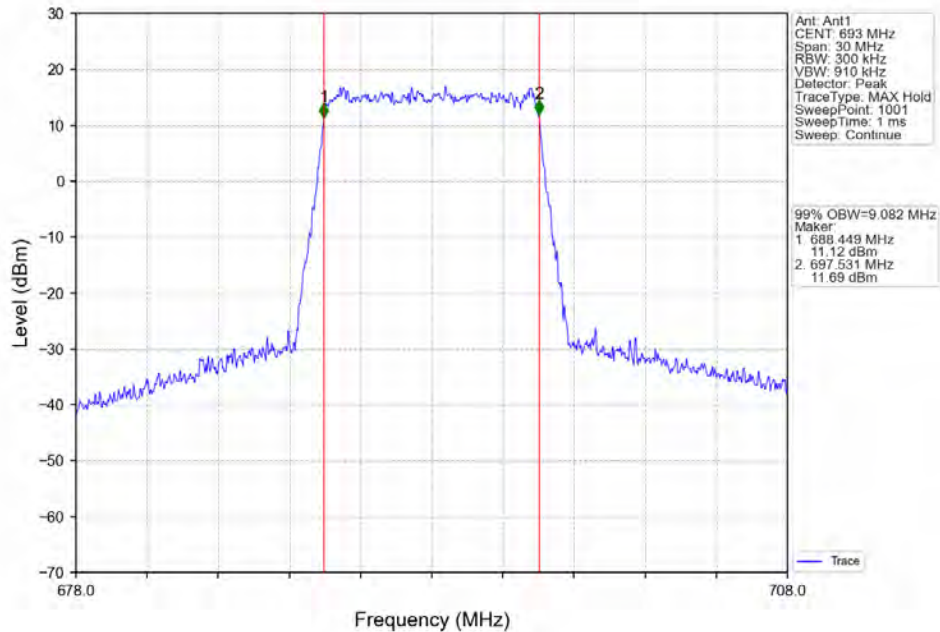
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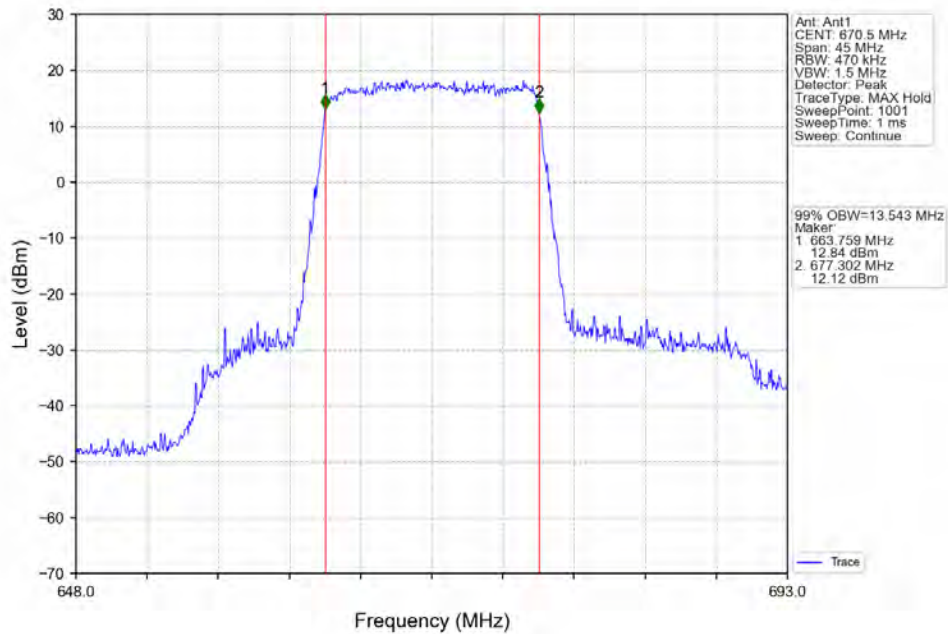
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Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



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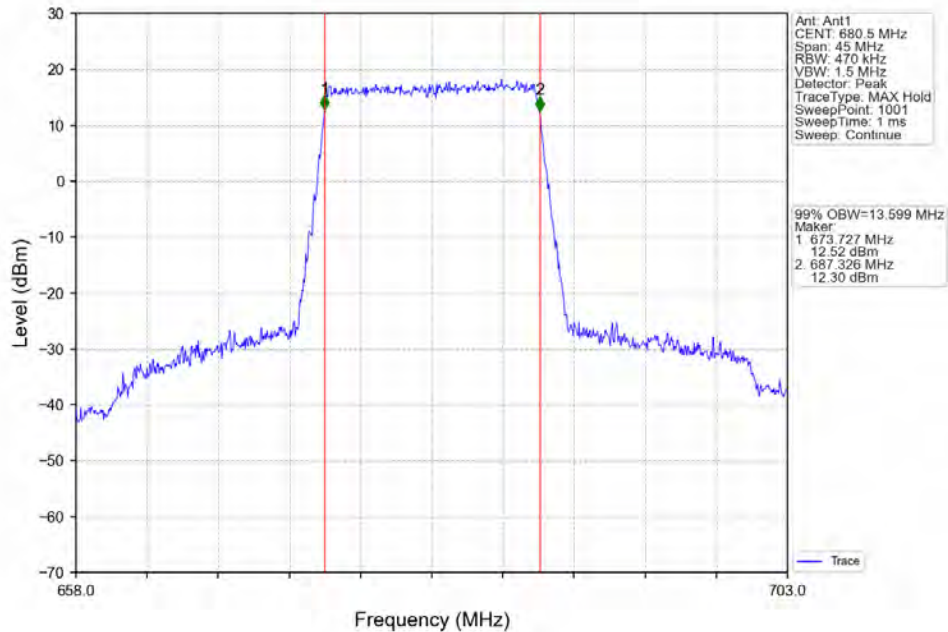
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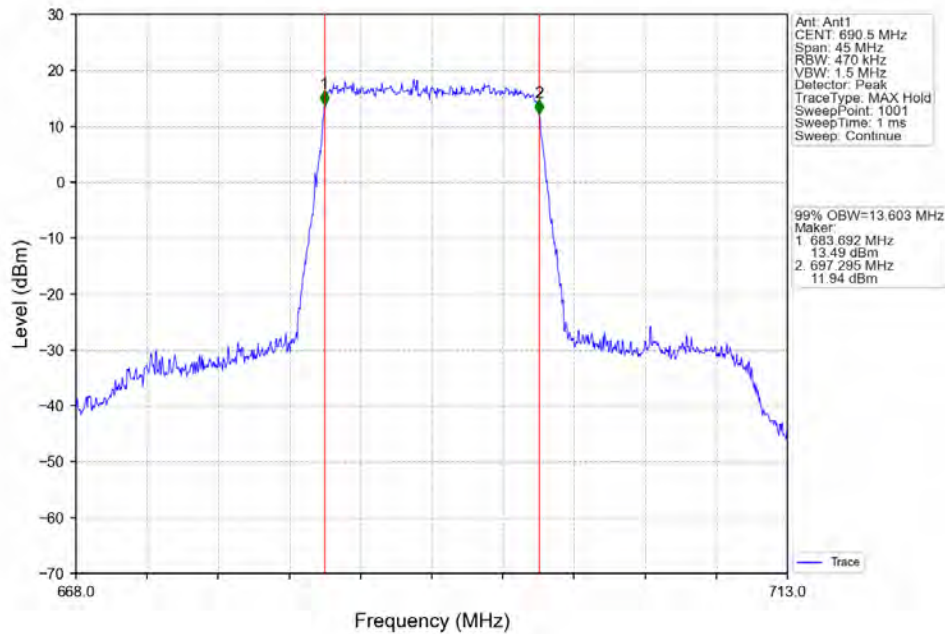
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Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



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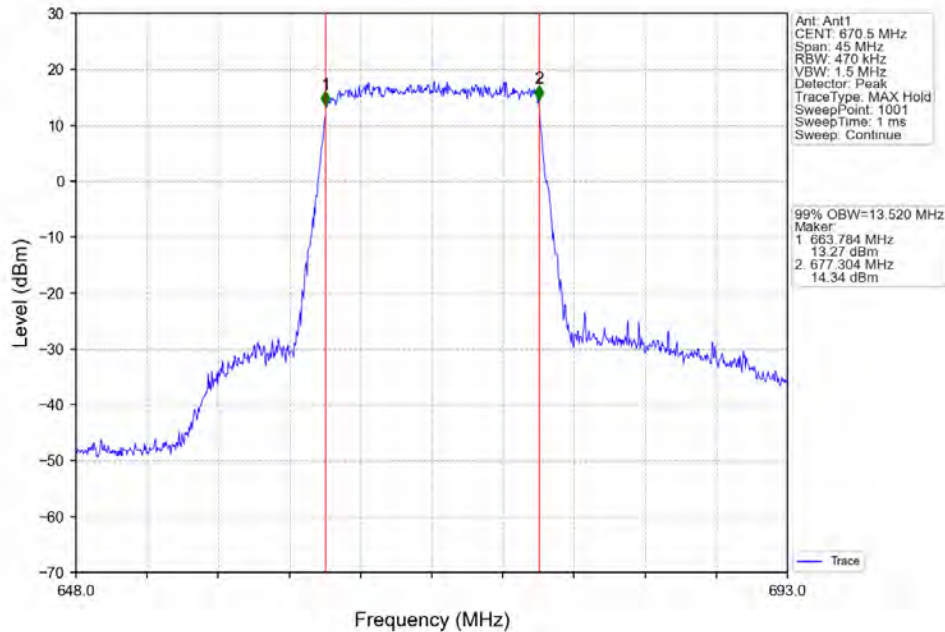
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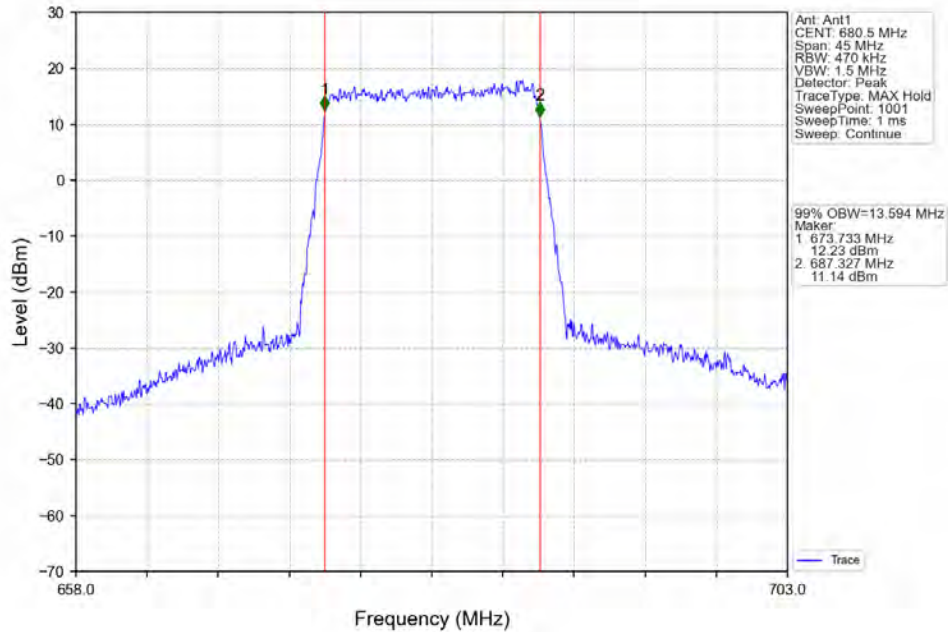
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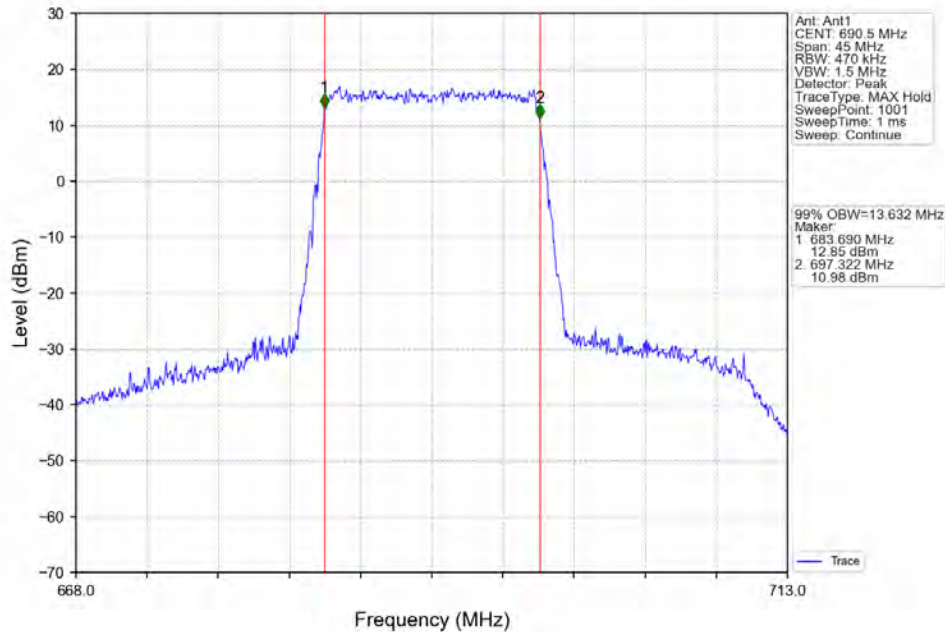
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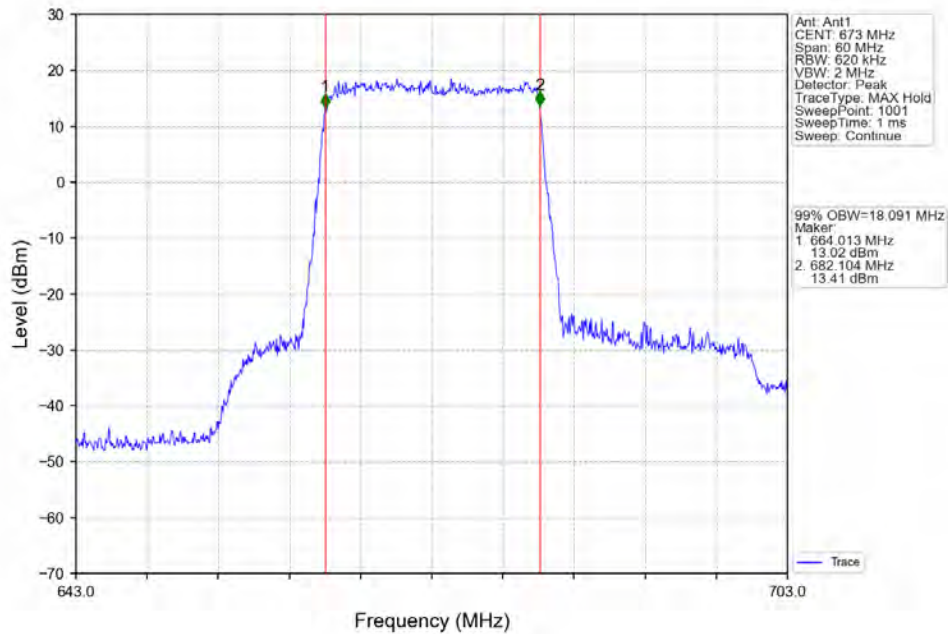
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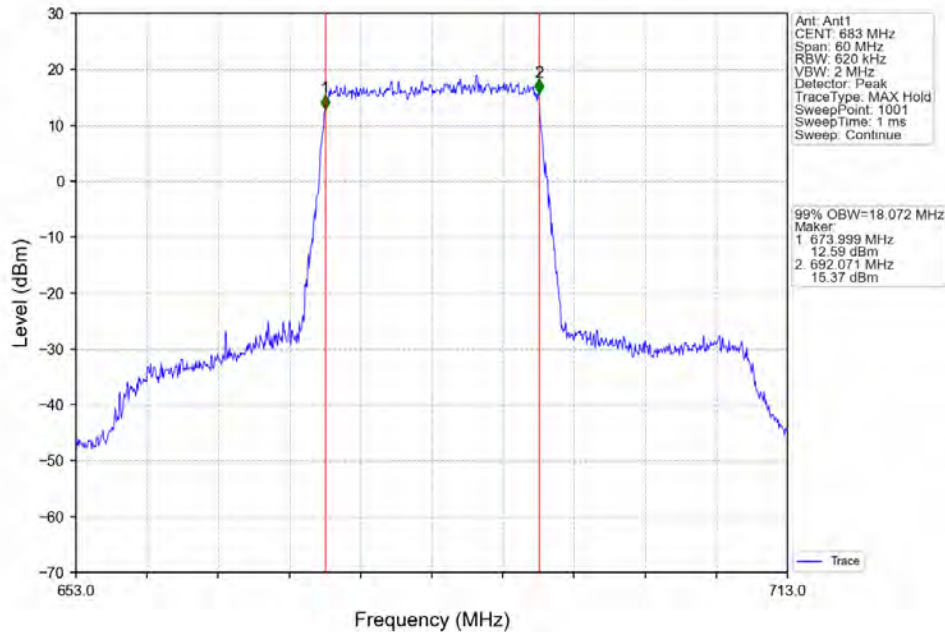
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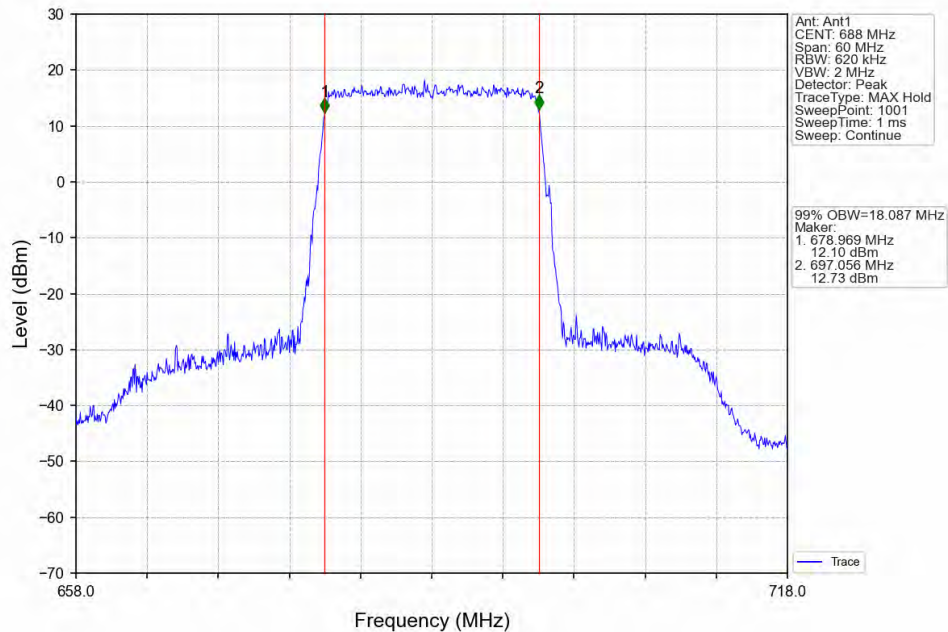
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Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV



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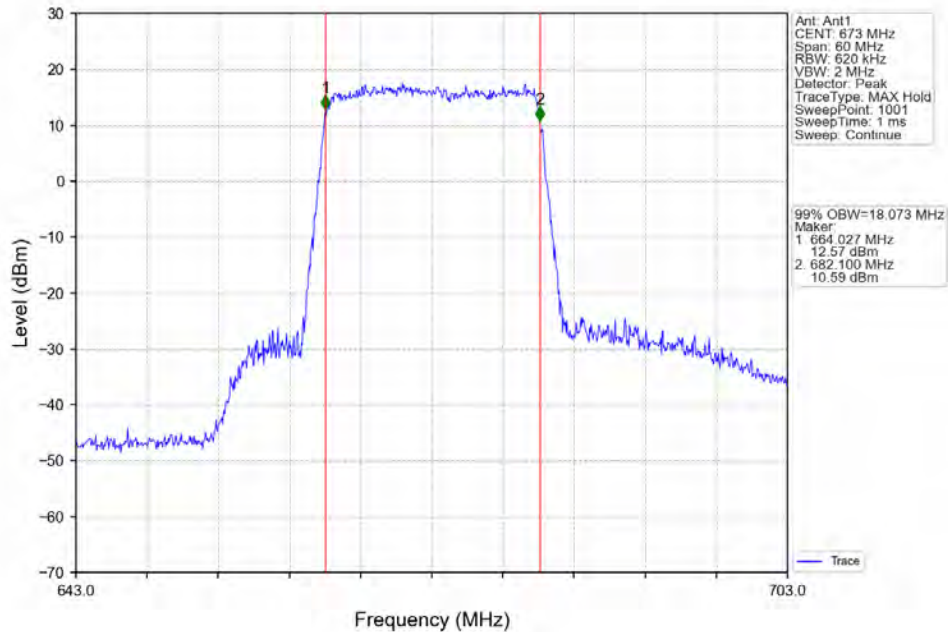
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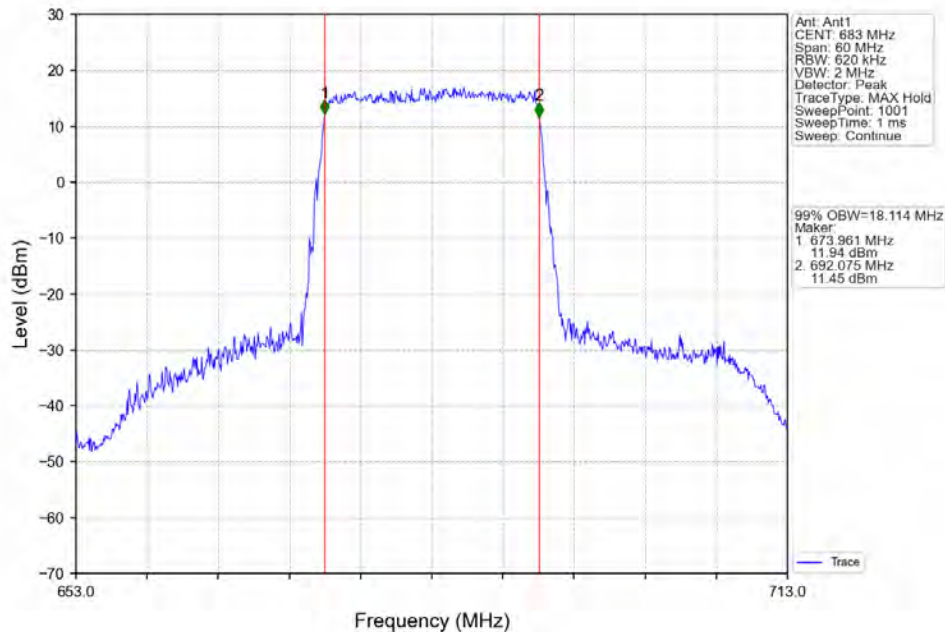
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Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV



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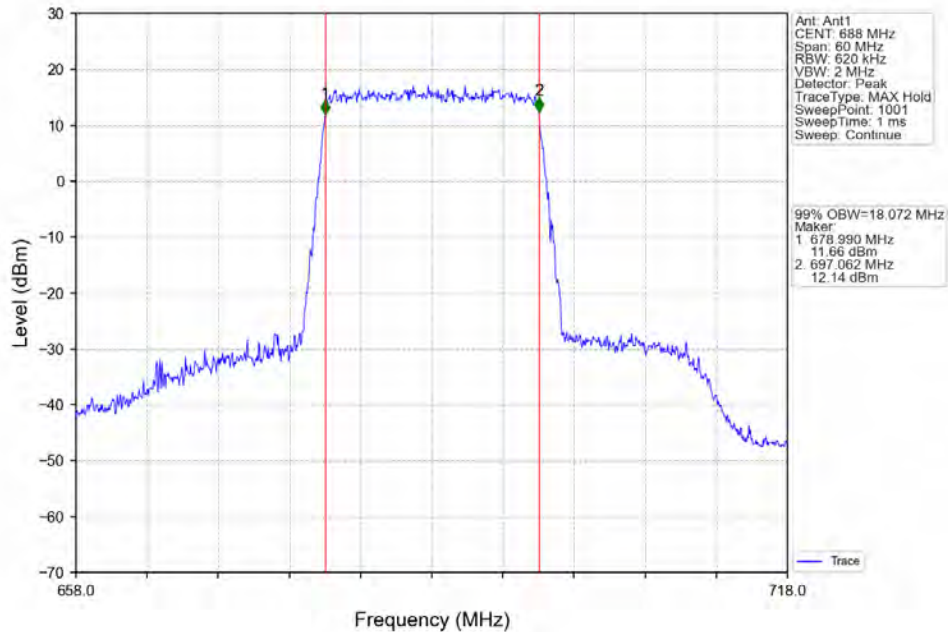
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3.2 Band71_XDB

3.2.1 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	5.202	/	Pass
		680.5	25	0	5.206	/	Pass
		695.5	25	0	5.169	/	Pass
	16QAM	665.5	25	0	5.272	/	Pass
		680.5	25	0	5.282	/	Pass
		695.5	25	0	5.246	/	Pass
10	QPSK	668	50	0	10.282	/	Pass
		680.5	50	0	10.215	/	Pass
		693	50	0	10.246	/	Pass
	16QAM	668	50	0	10.135	/	Pass
		680.5	50	0	10.207	/	Pass
		693	50	0	10.135	/	Pass
15	QPSK	670.5	75	0	15.373	/	Pass
		680.5	75	0	15.213	/	Pass
		690.5	75	0	15.266	/	Pass
	16QAM	670.5	75	0	15.185	/	Pass
		680.5	75	0	15.349	/	Pass
		690.5	75	0	15.356	/	Pass
20	QPSK	673	100	0	20.006	/	Pass
		683	100	0	19.986	/	Pass
		688	100	0	20.167	/	Pass
	16QAM	673	100	0	20.066	/	Pass
		683	100	0	20.074	/	Pass
		688	100	0	20.208	/	Pass



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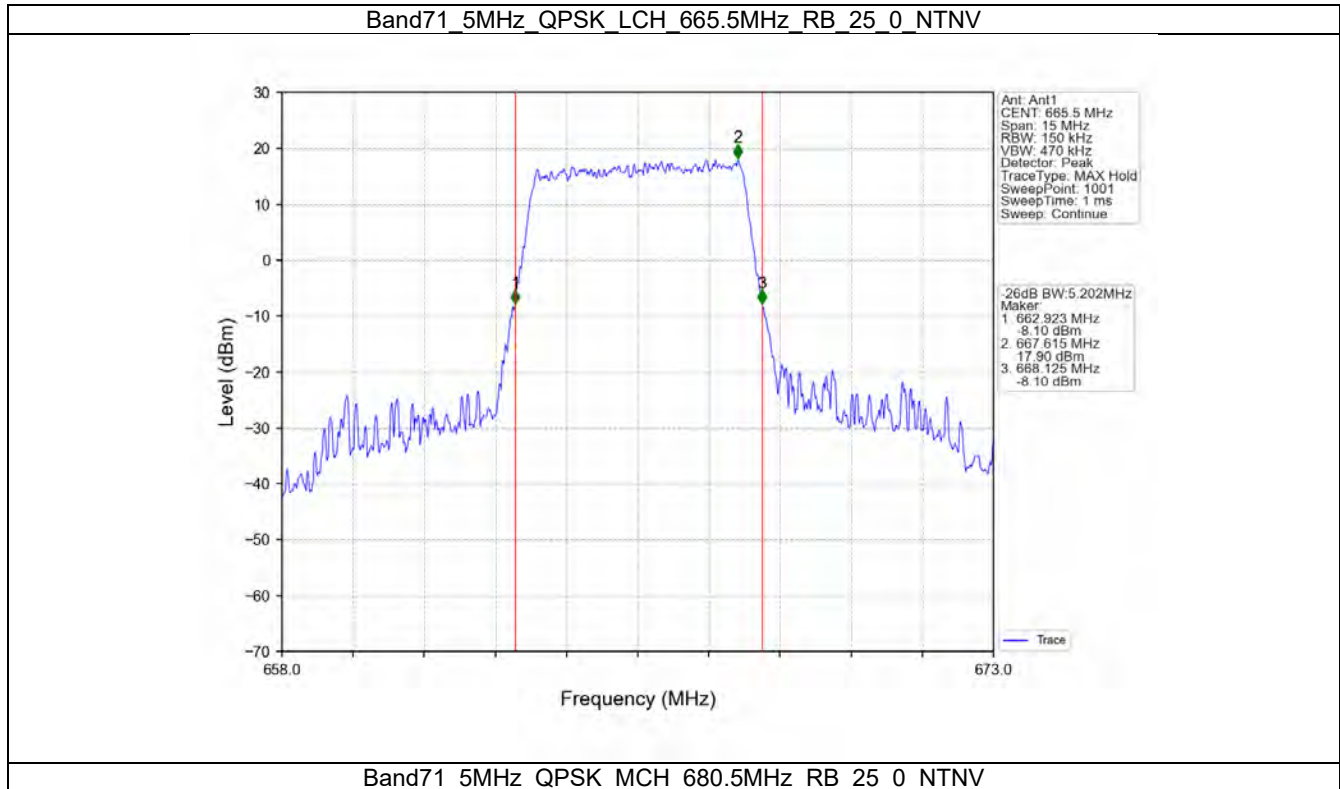
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3.2.2 Test Graph



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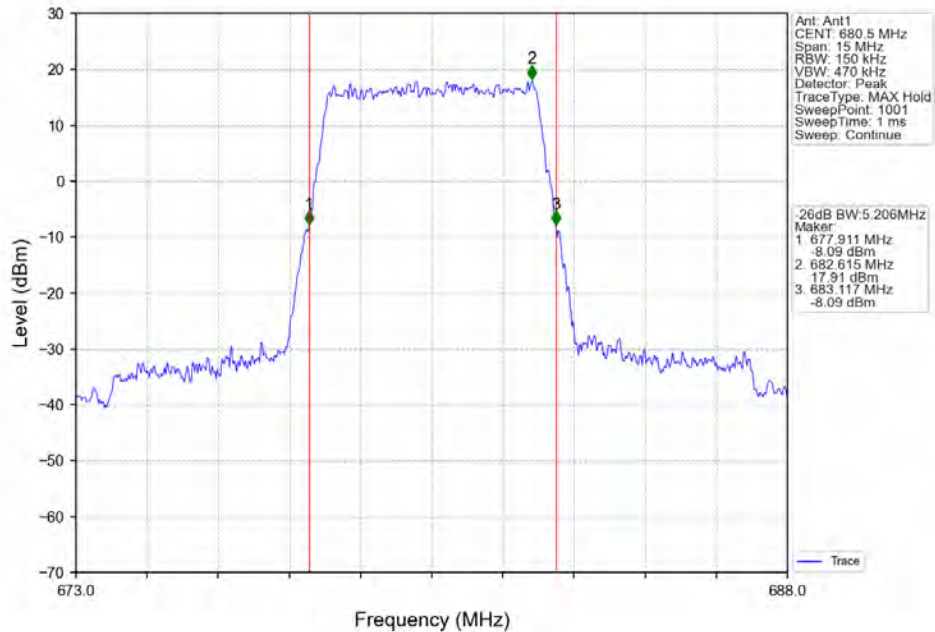
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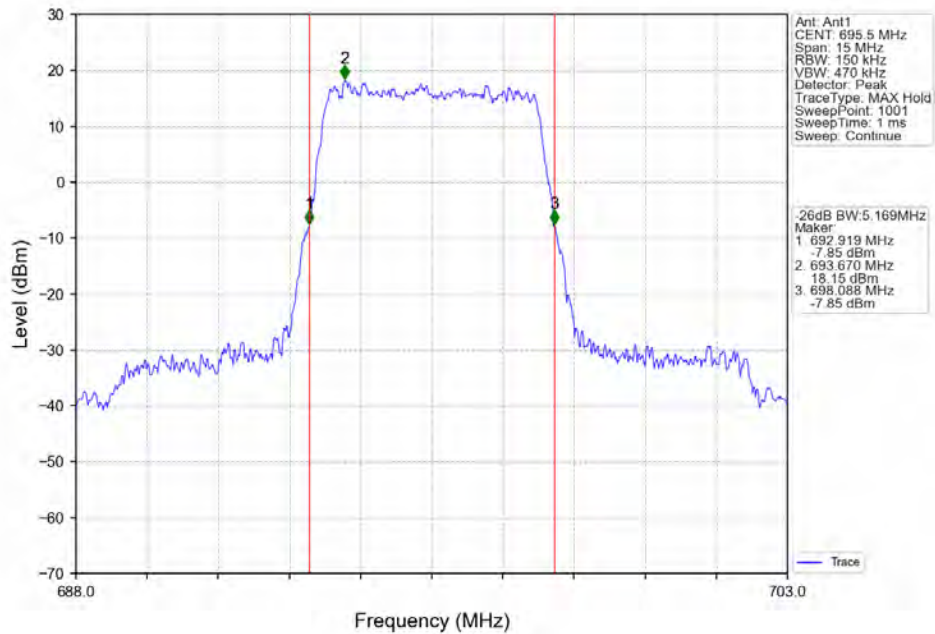
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Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



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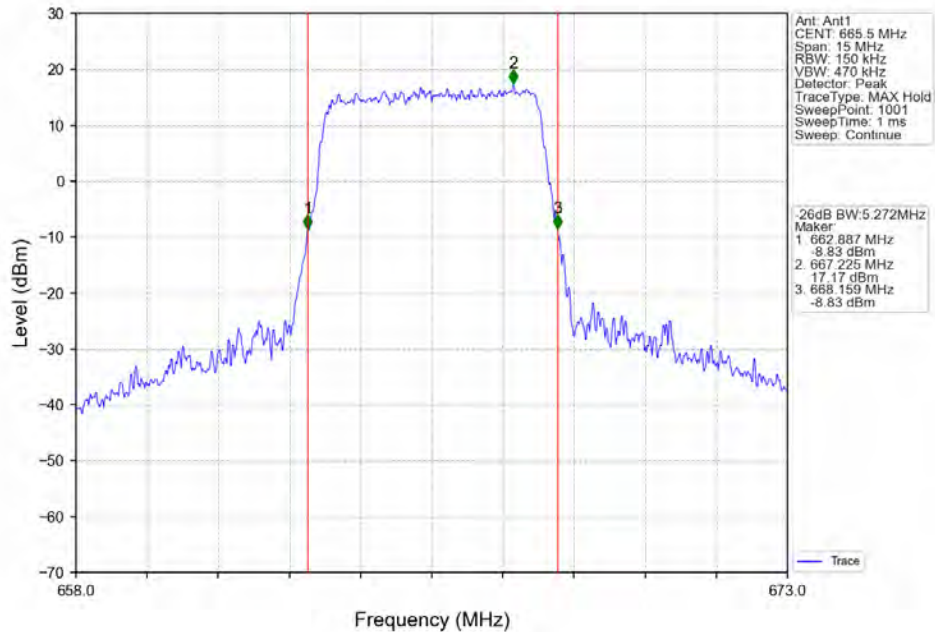
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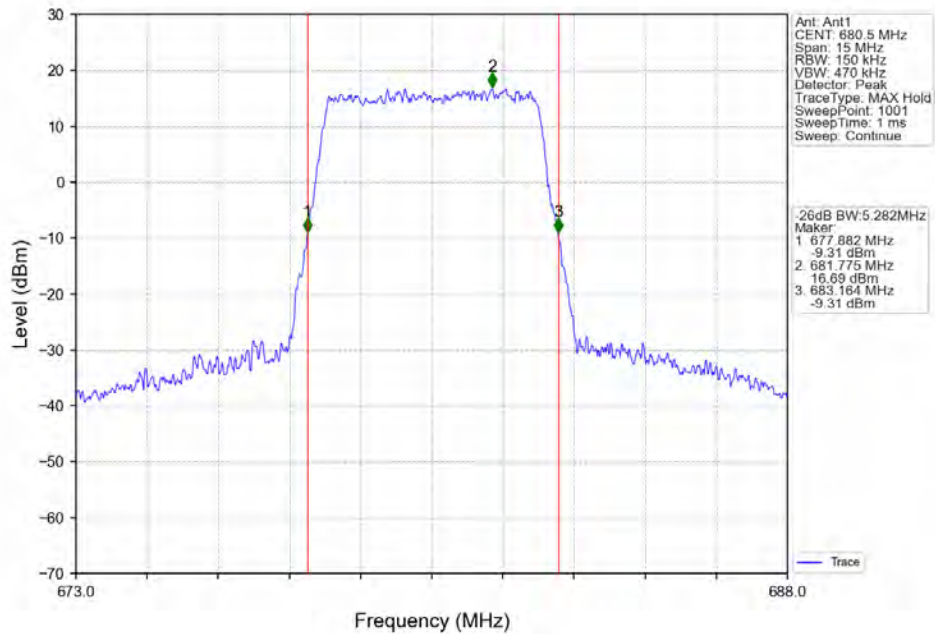
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Band71 5MHz 16QAM MCH 680.5MHz RB 25 0 NTNV



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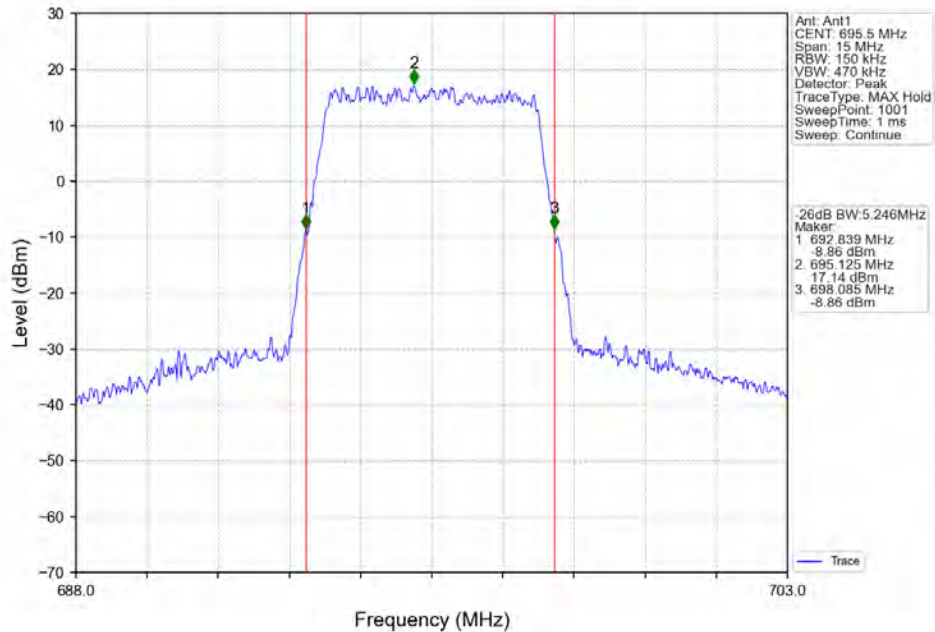
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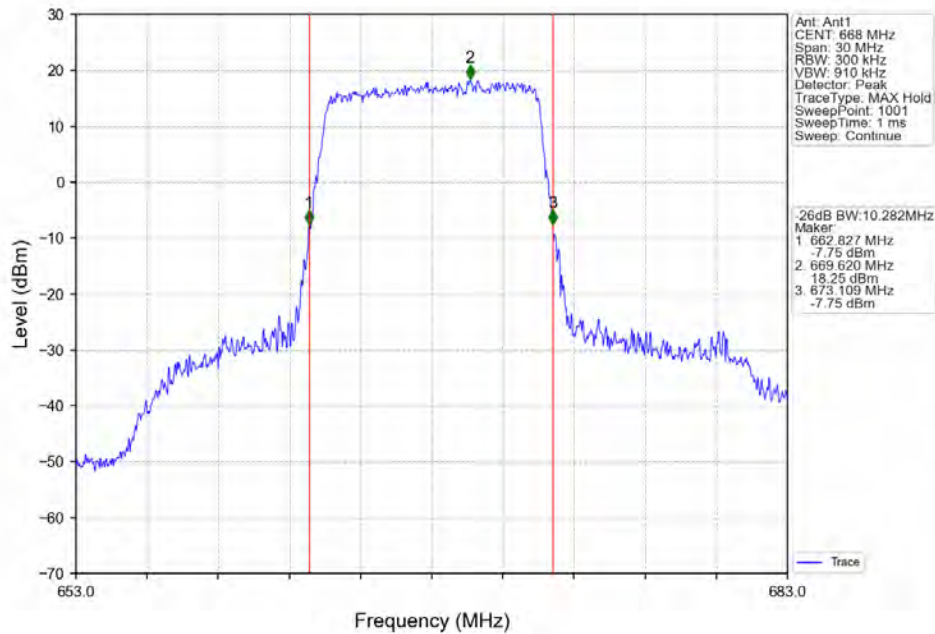
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Band71 10MHz QPSK LCH 668MHz RB 50 0 NTNV



Band71 10MHz QPSK MCH 680.5MHz RB 50 0 NTNV



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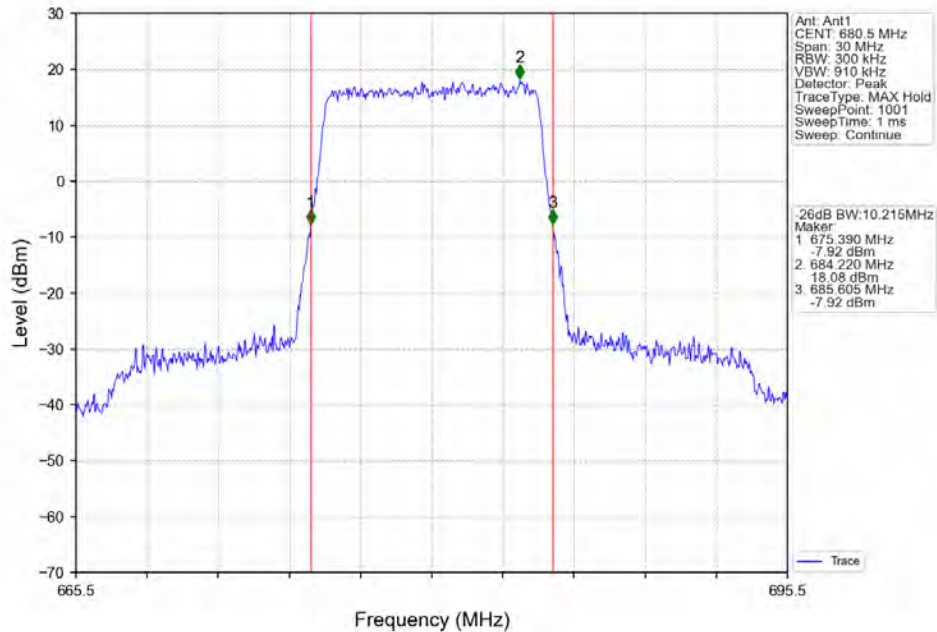
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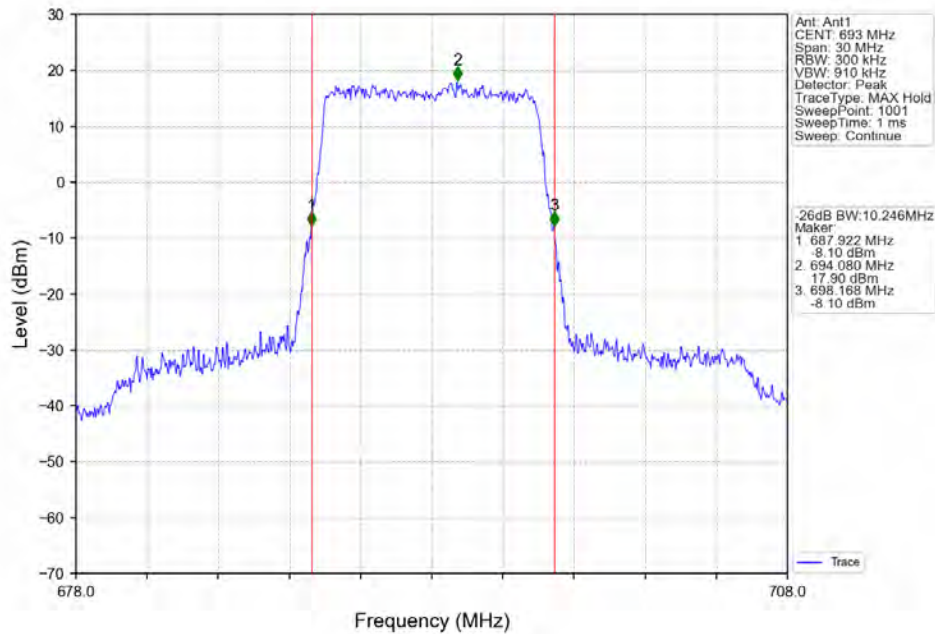
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Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



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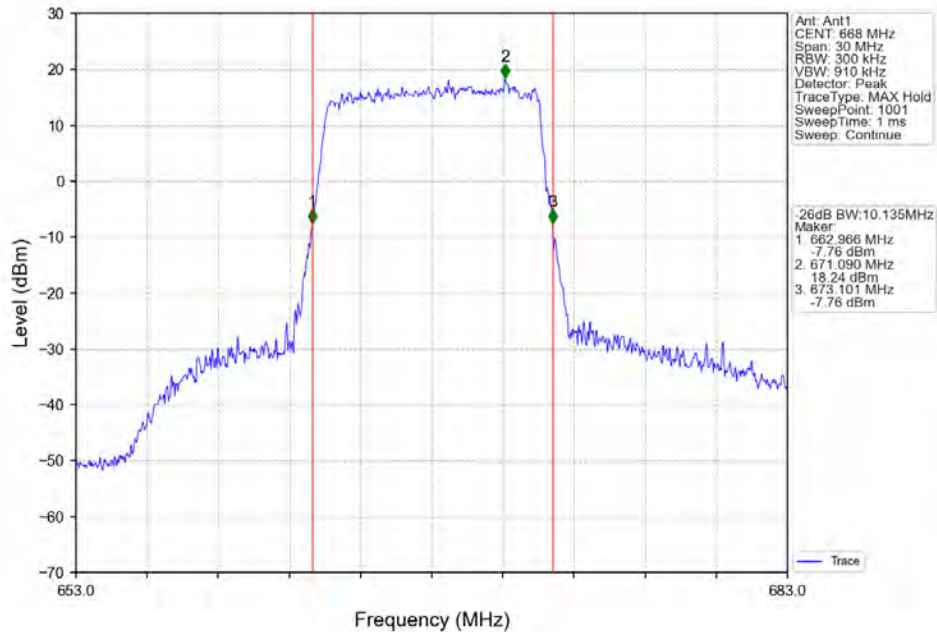
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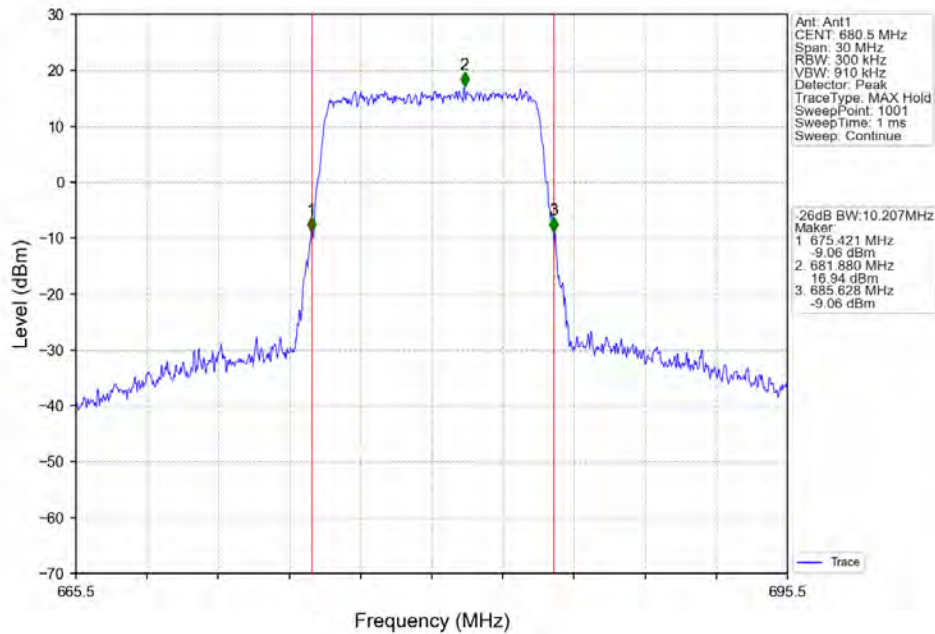
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Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV



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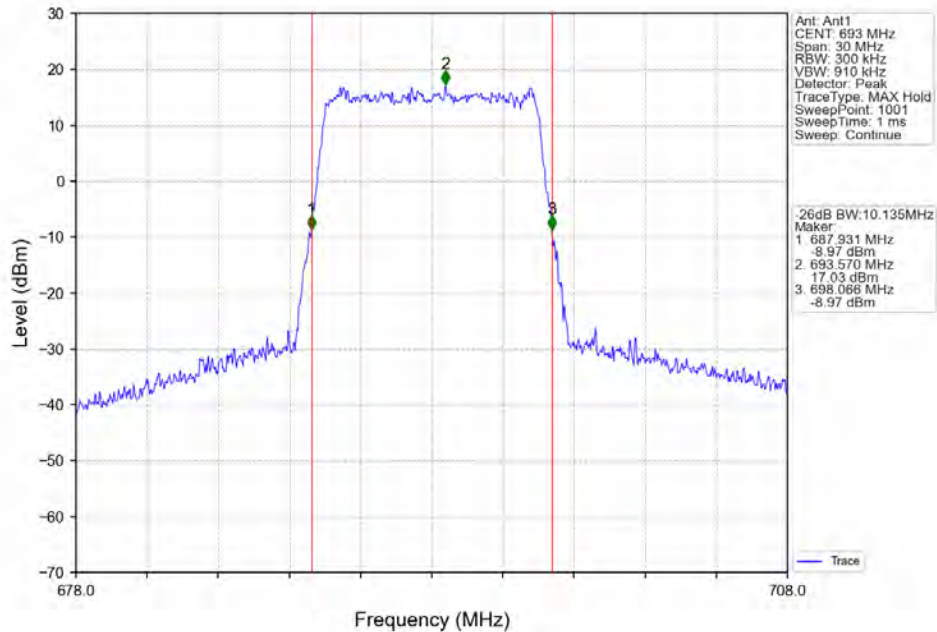
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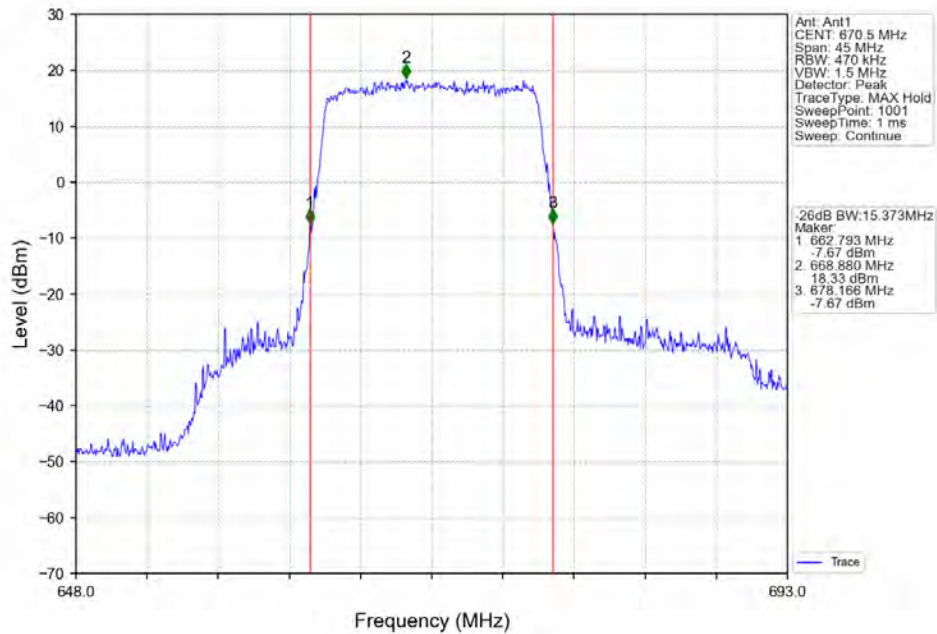
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Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



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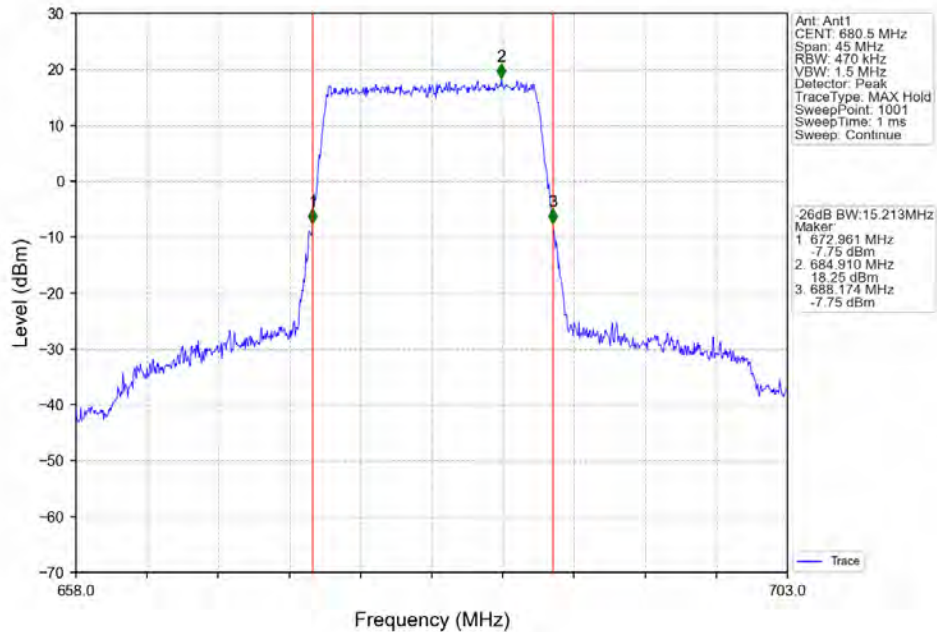
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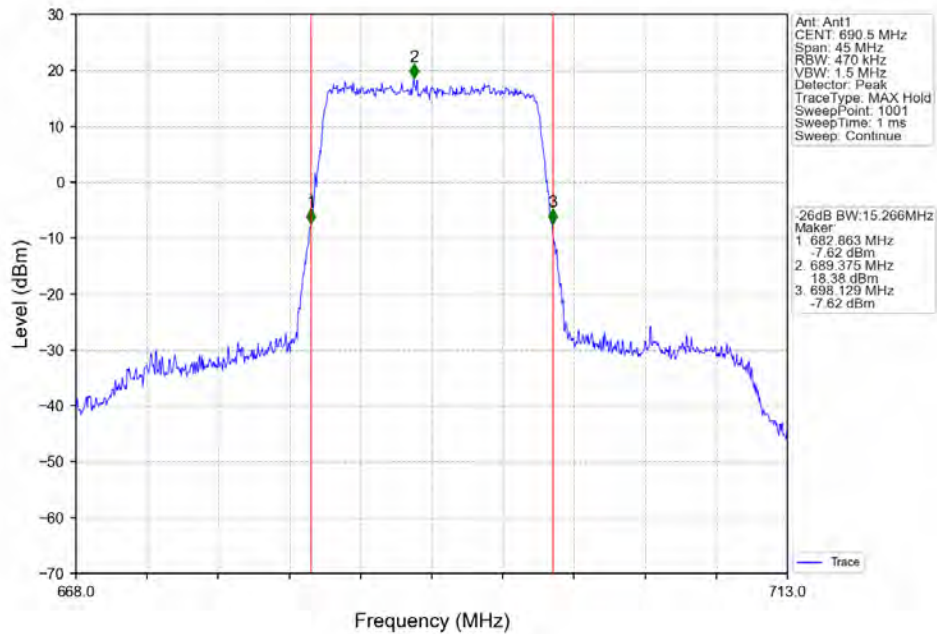
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Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



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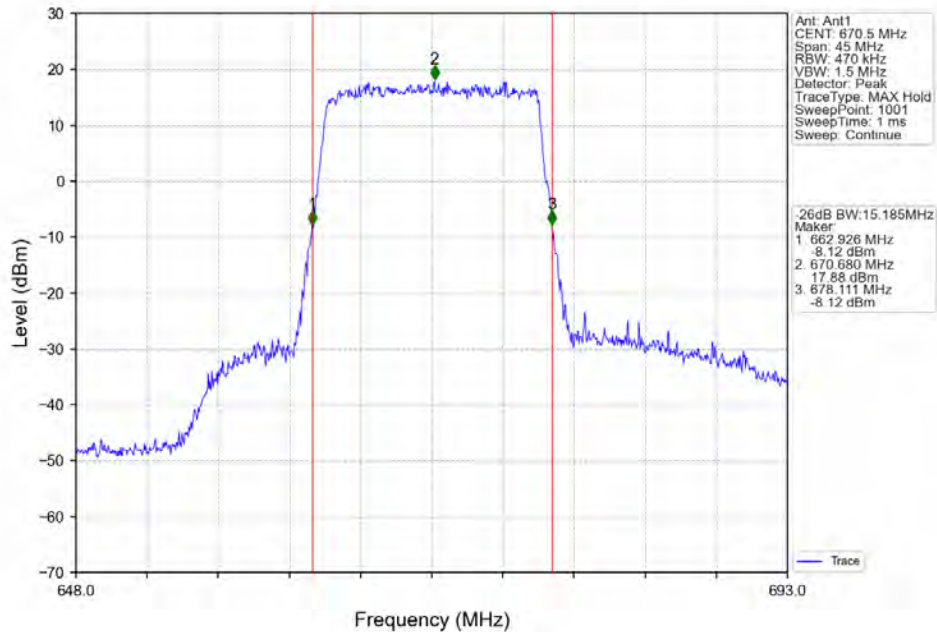
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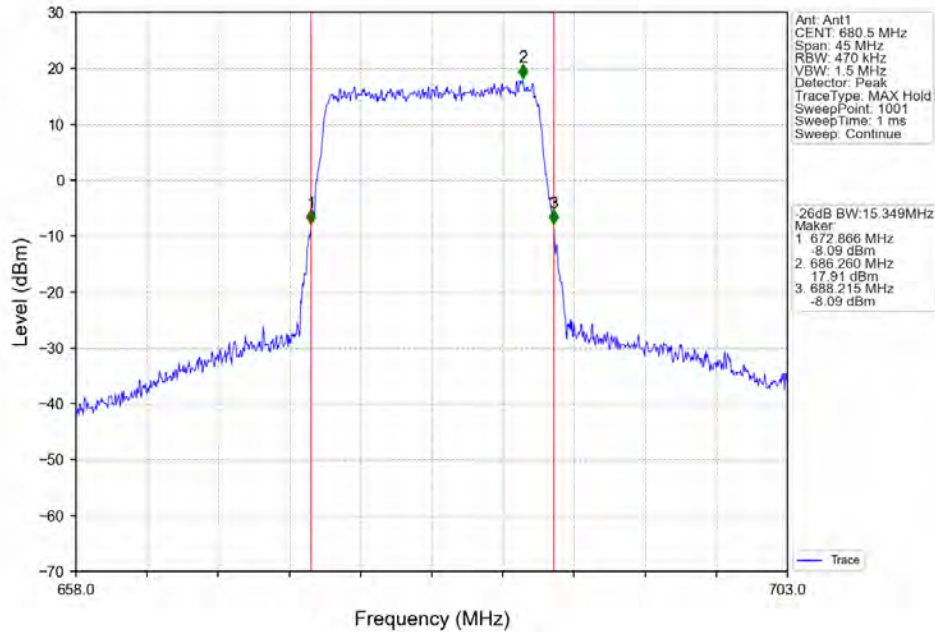
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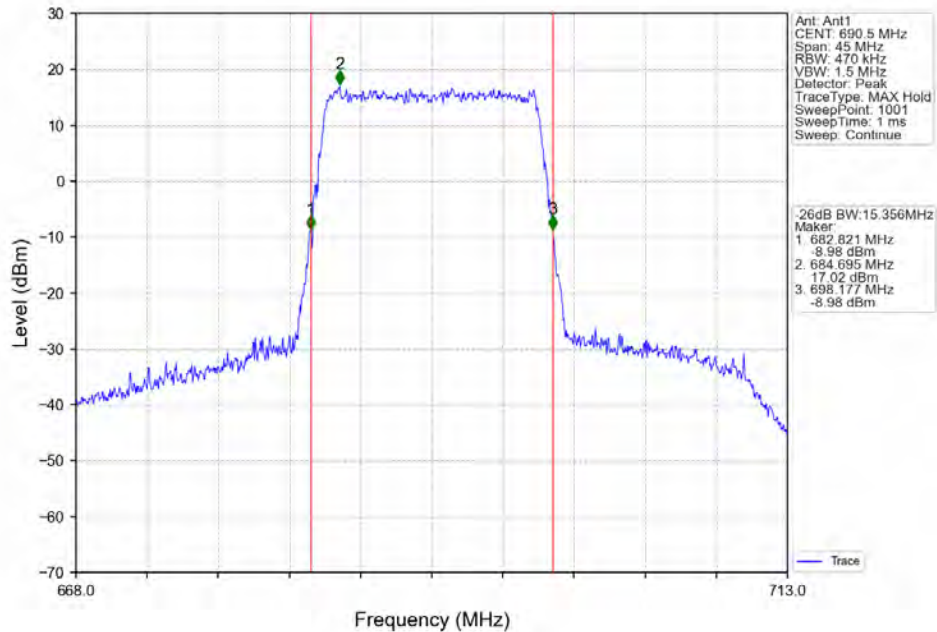
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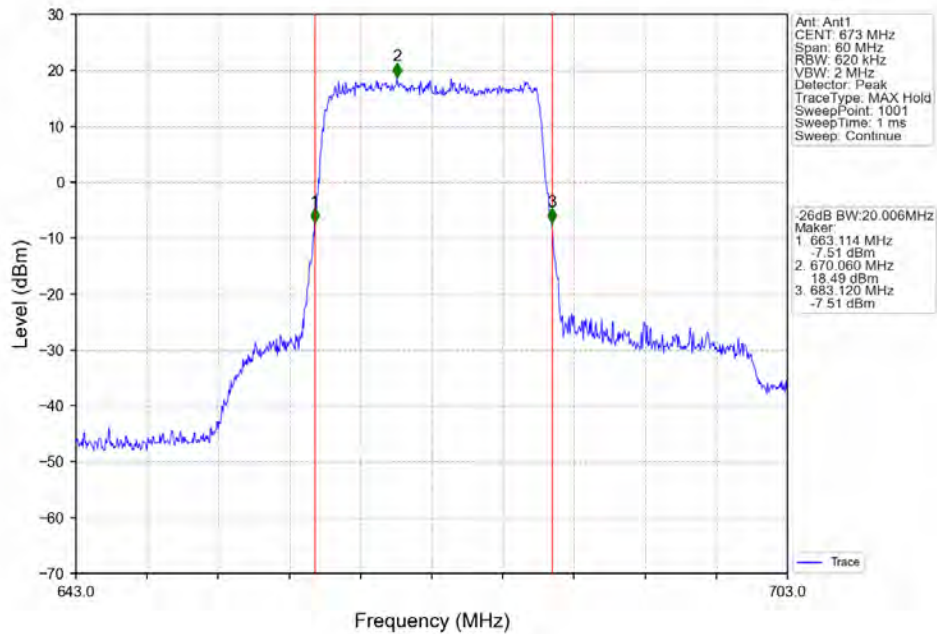
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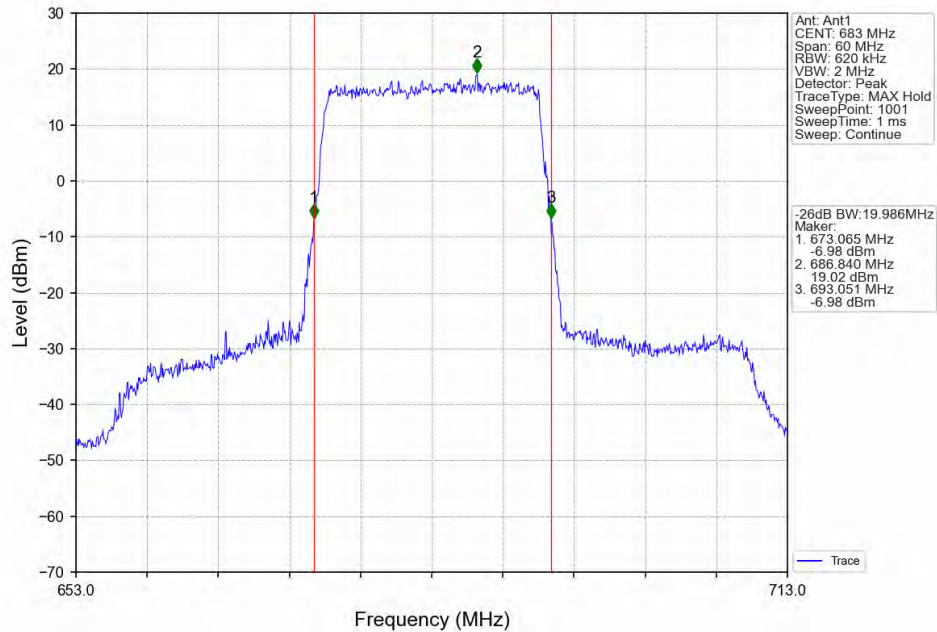
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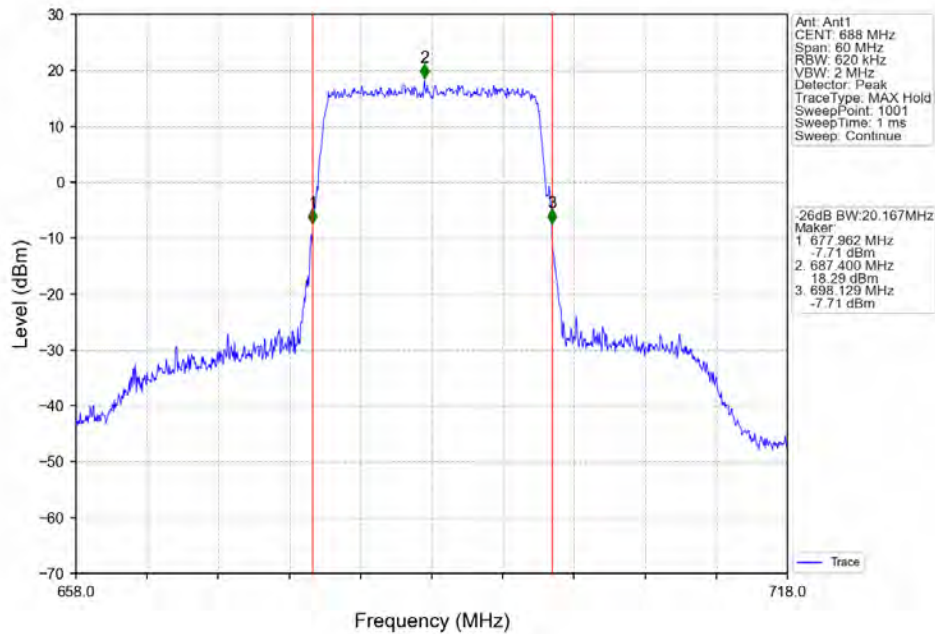
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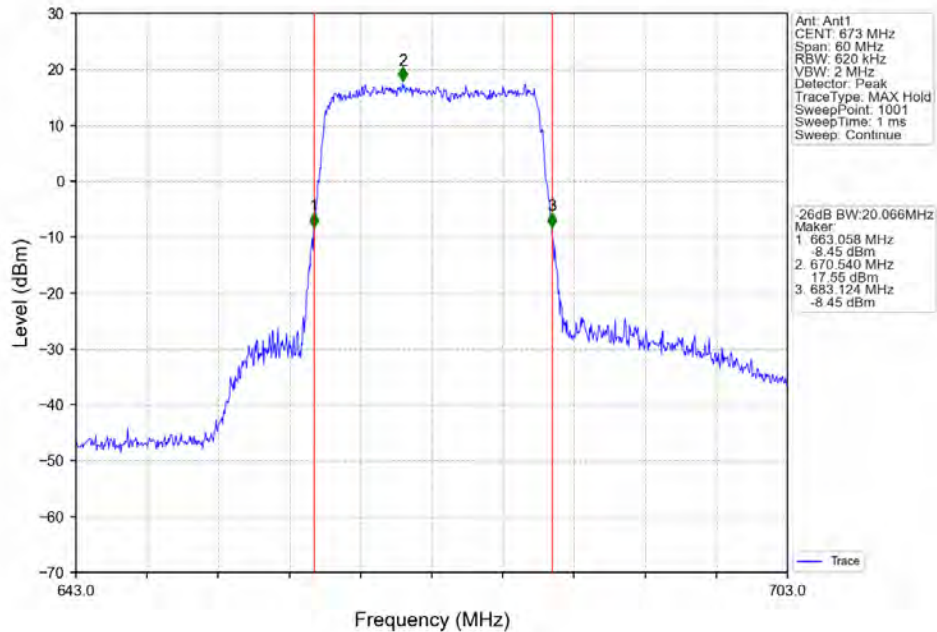
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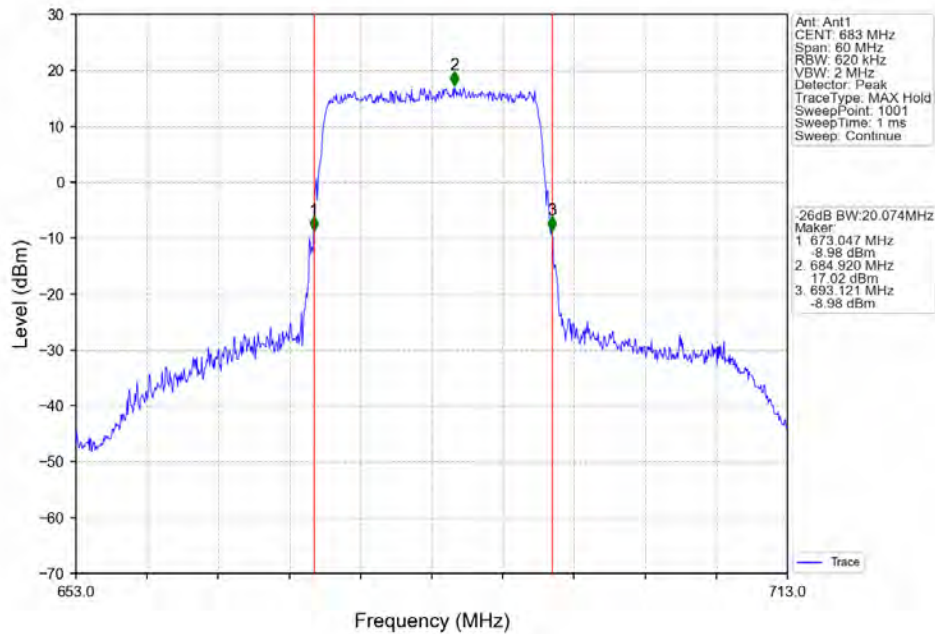
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Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV



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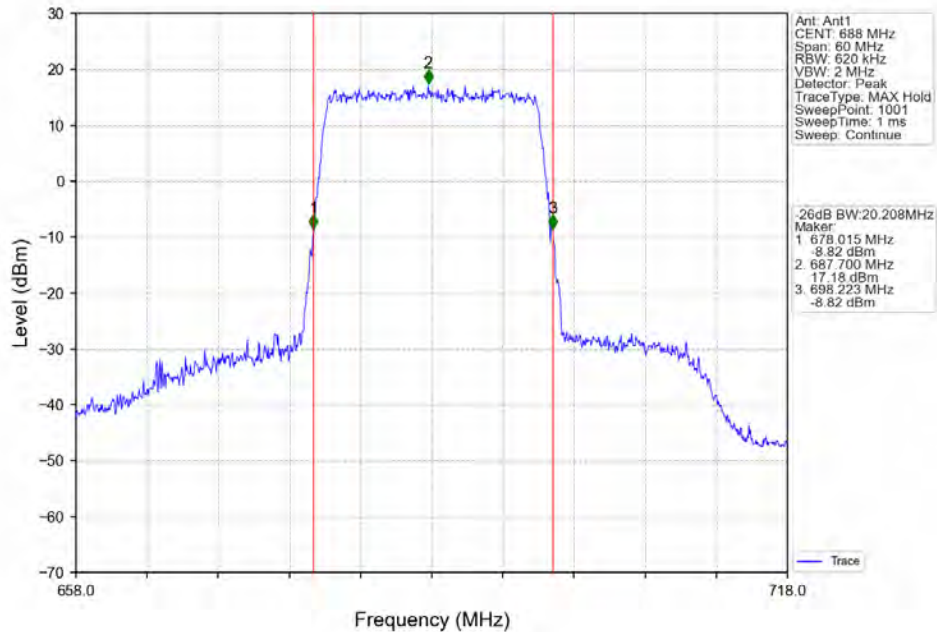
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4. Peak-Average Ratio

4.1 B71_5MHz

4.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	25	0	5.53	<=13	Pass
	680.5	25	0	5.66	<=13	Pass
	695.5	25	0	5.65	<=13	Pass
16QAM	665.5	25	0	6.26	<=13	Pass
	680.5	25	0	6.35	<=13	Pass
	695.5	25	0	6.27	<=13	Pass



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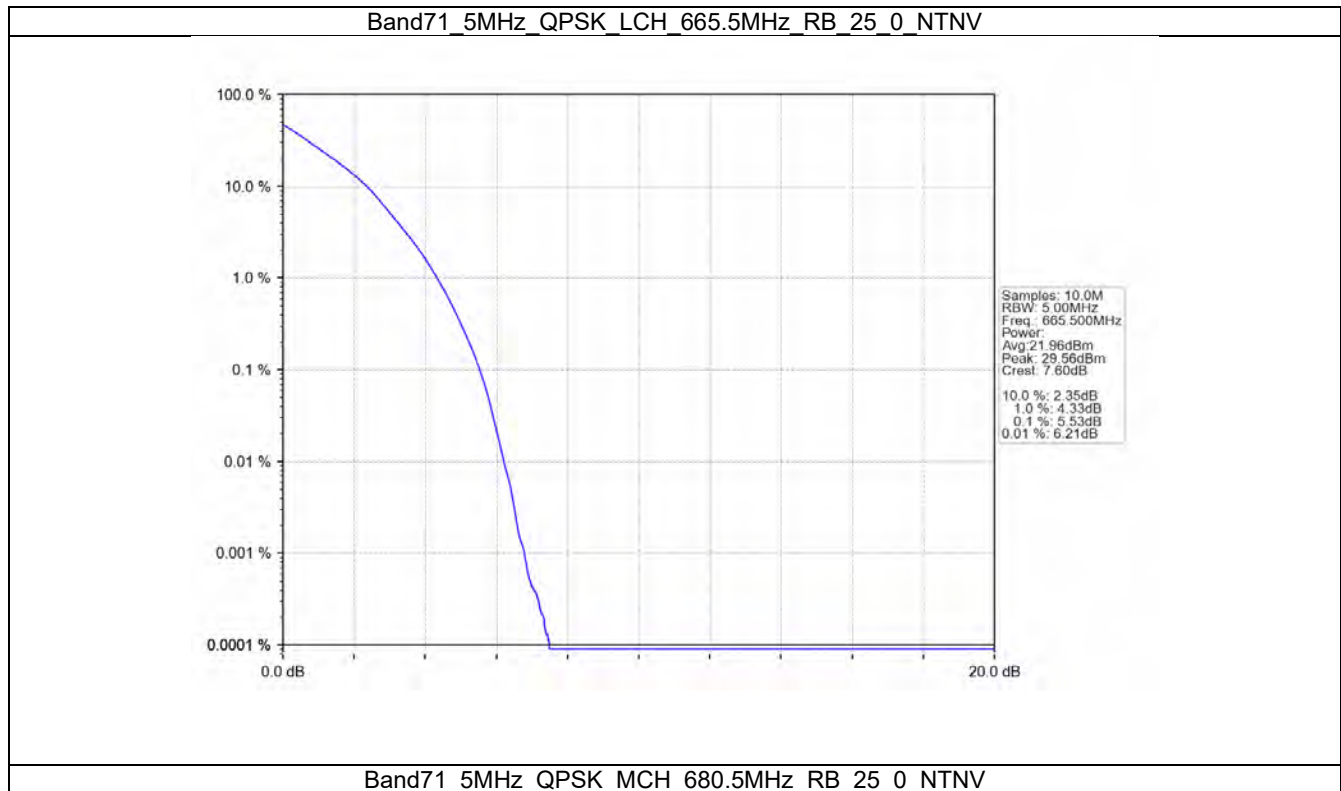
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4.1.2 Test Graph



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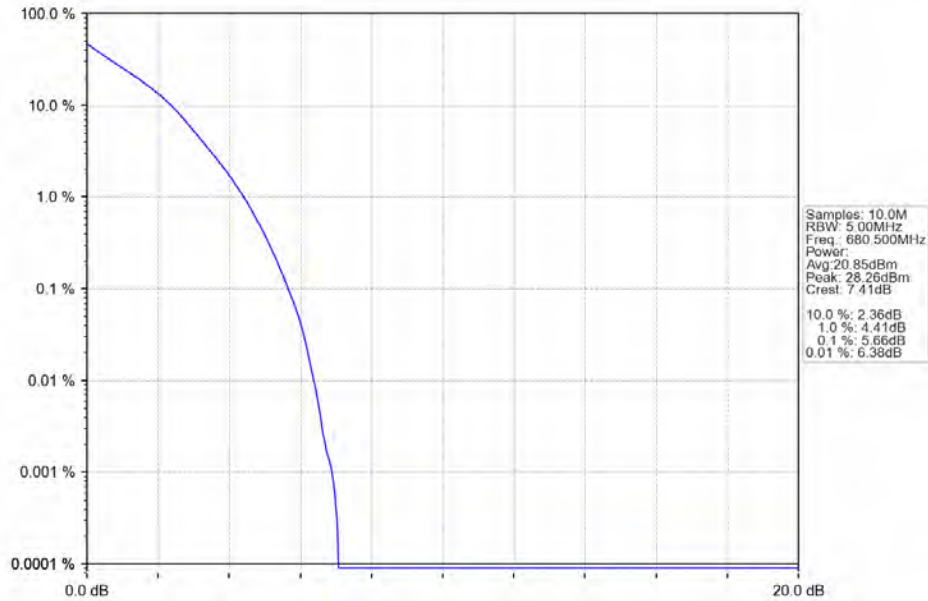
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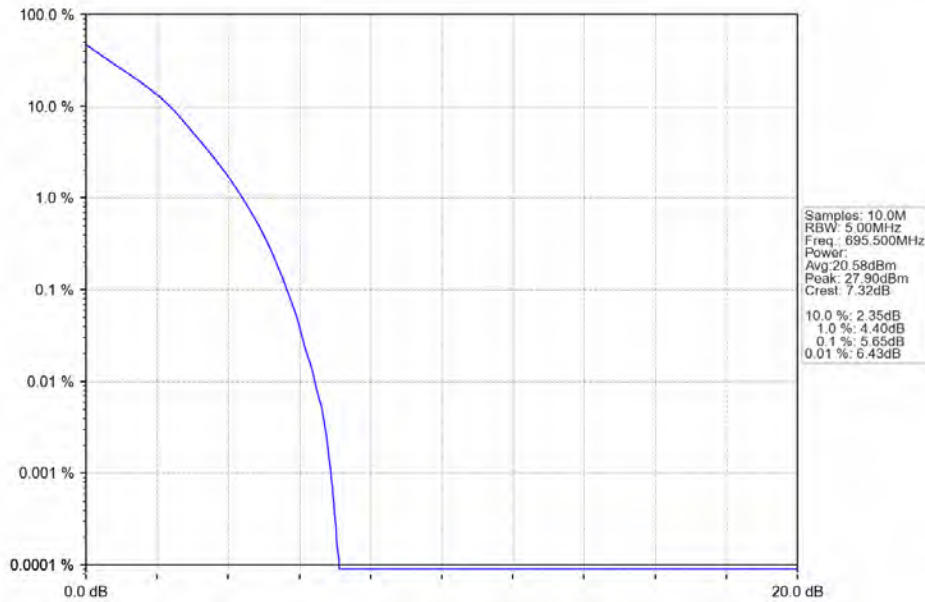
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Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



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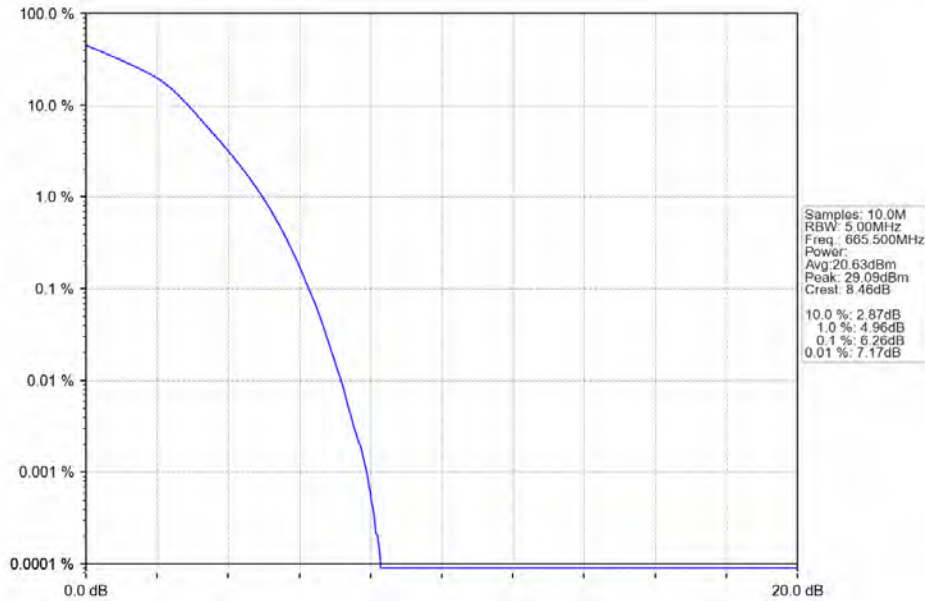
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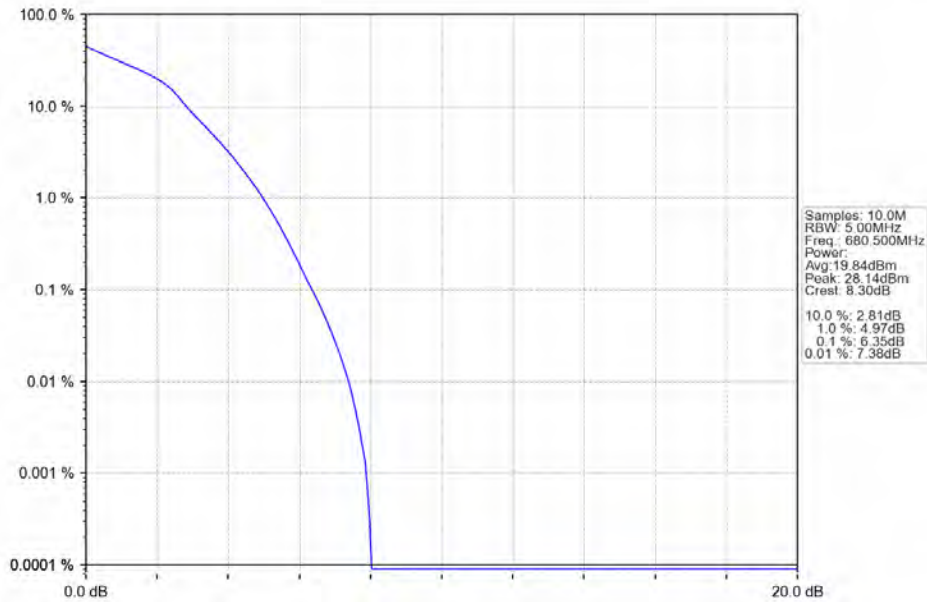
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Band71 5MHz 16QAM MCH 680.5MHz_RB_25_0_NTNV



Band71 5MHz 16QAM HCH 695.5MHz_RB_25_0_NTNV



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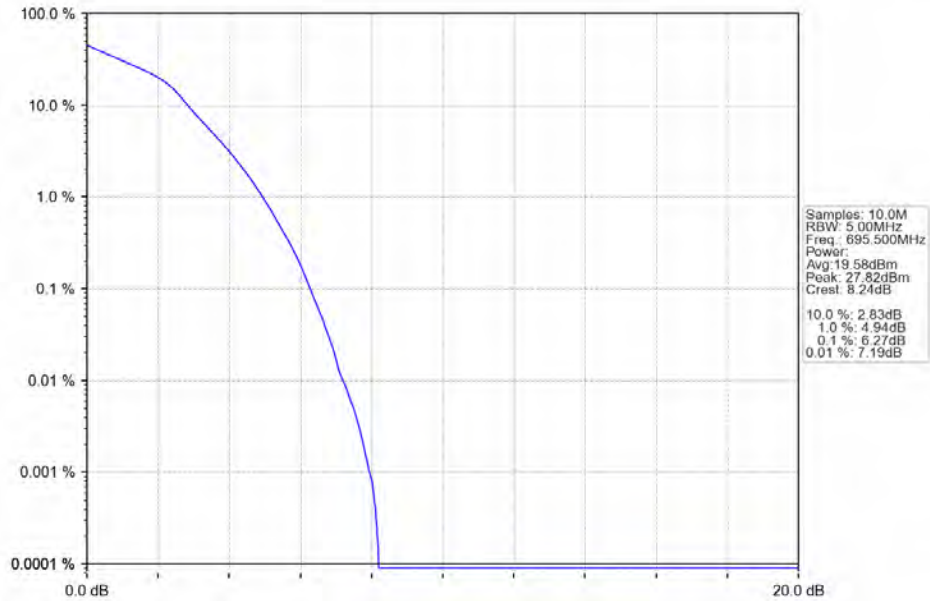
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4.2 B71_10MHz

4.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	668	50	0	5.45	<=13	Pass
	680.5	50	0	5.63	<=13	Pass
	693	50	0	5.58	<=13	Pass
16QAM	668	50	0	6.19	<=13	Pass
	680.5	50	0	6.36	<=13	Pass
	693	50	0	6.33	<=13	Pass



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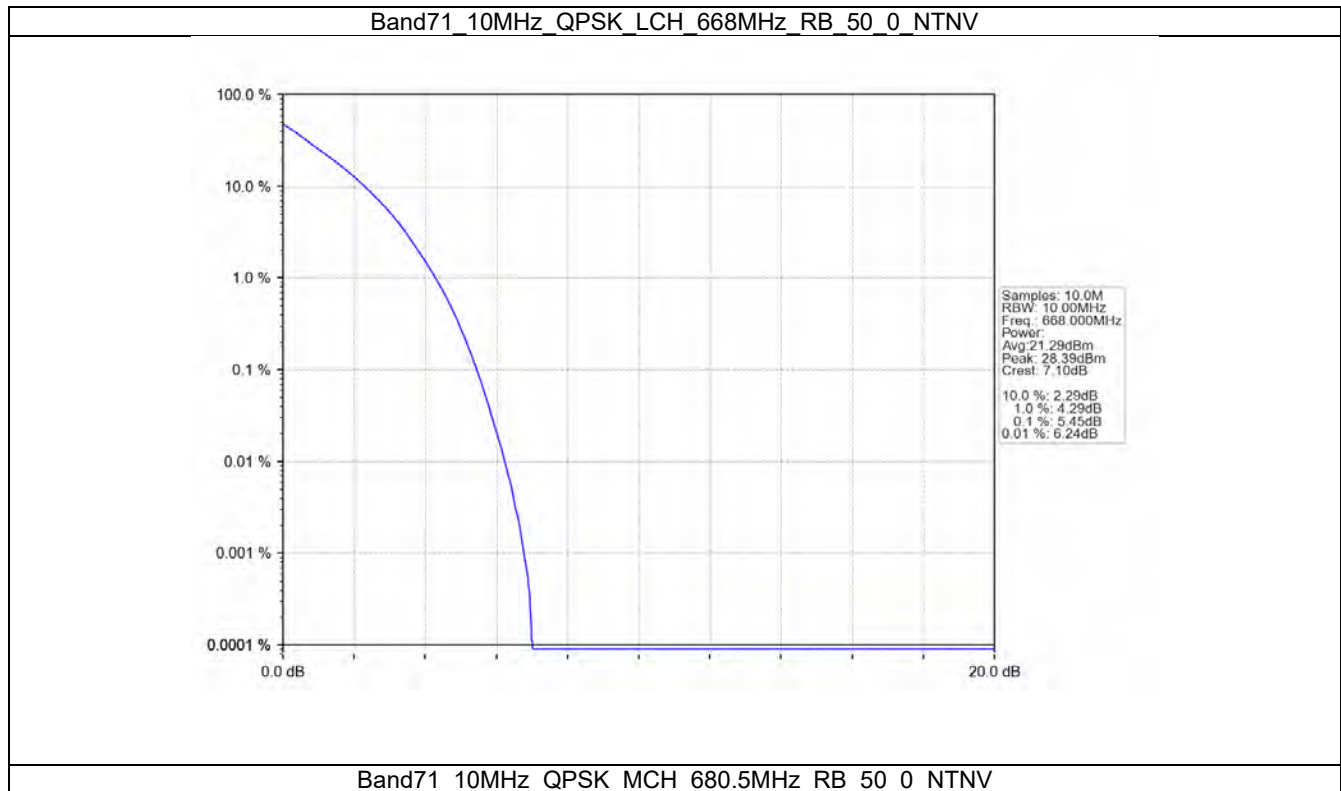
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4.2.2 Test Graph



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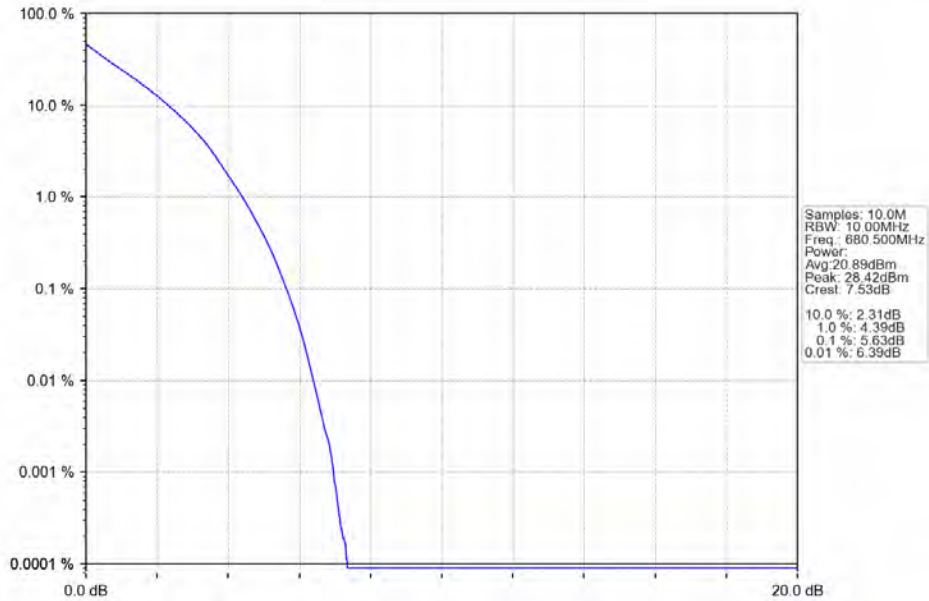
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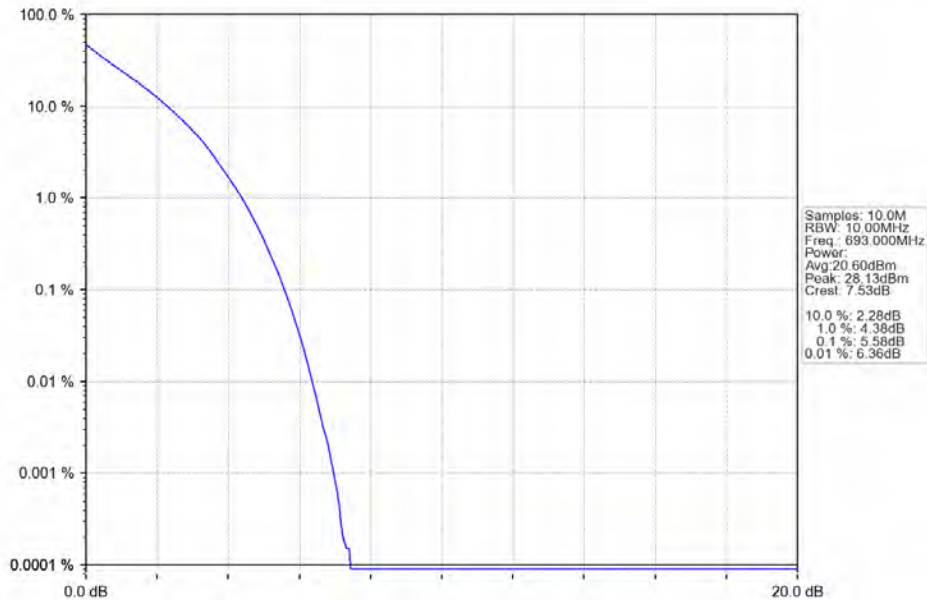
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Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



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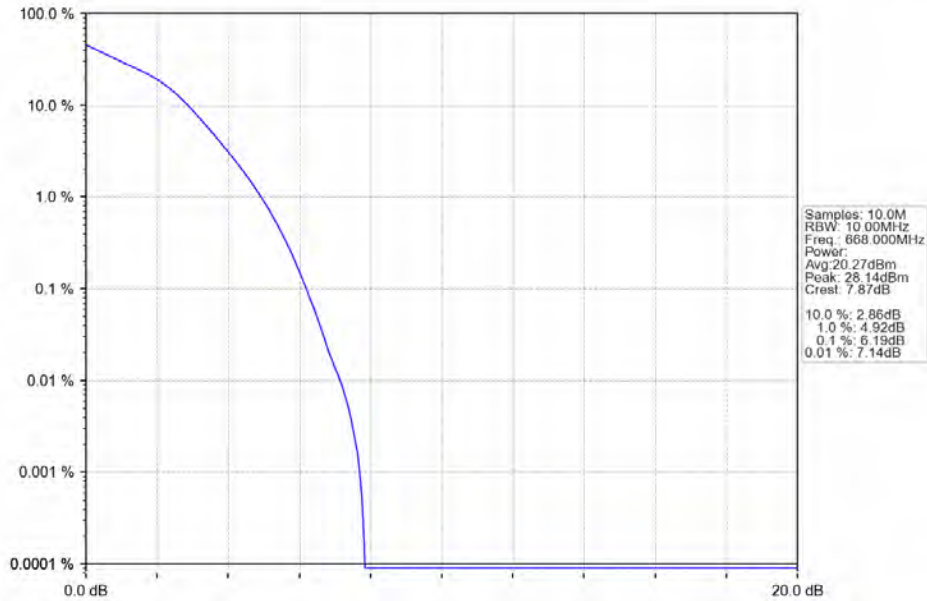
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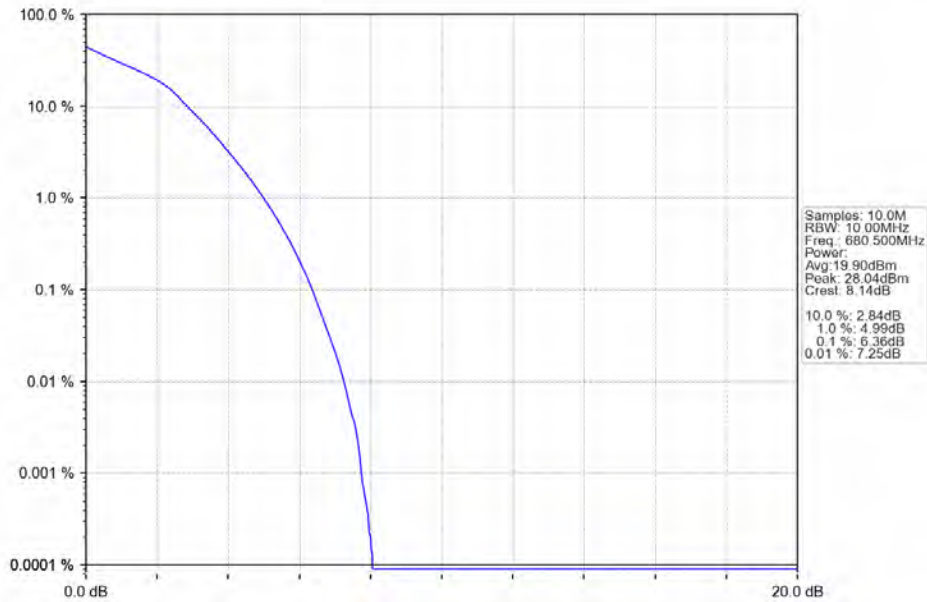
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Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV



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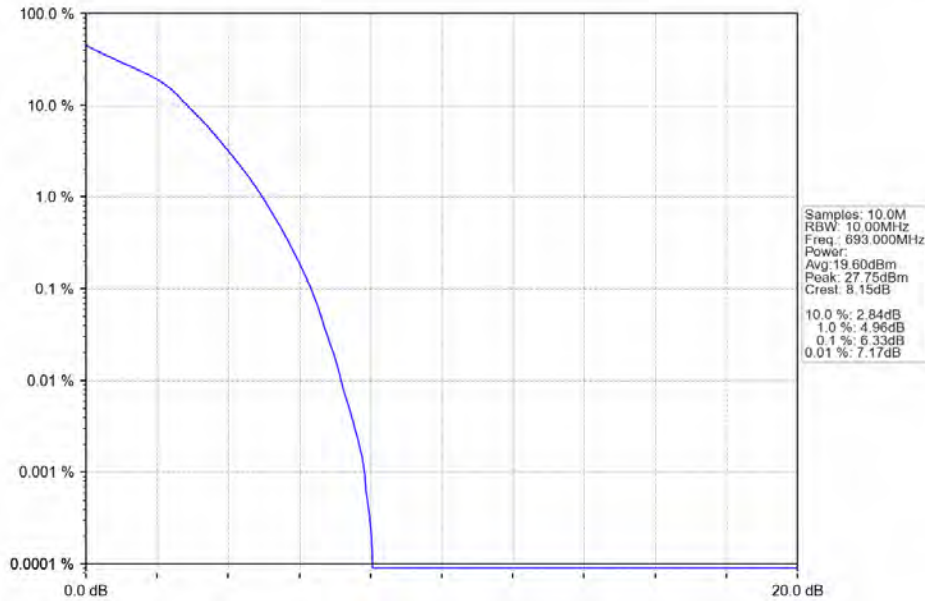
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4.3 B71_15MHz

4.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	670.5	75	0	5.69	<=13	Pass
	680.5	75	0	5.95	<=13	Pass
	690.5	75	0	5.92	<=13	Pass
16QAM	670.5	75	0	6.22	<=13	Pass
	680.5	75	0	6.40	<=13	Pass
	690.5	75	0	6.36	<=13	Pass



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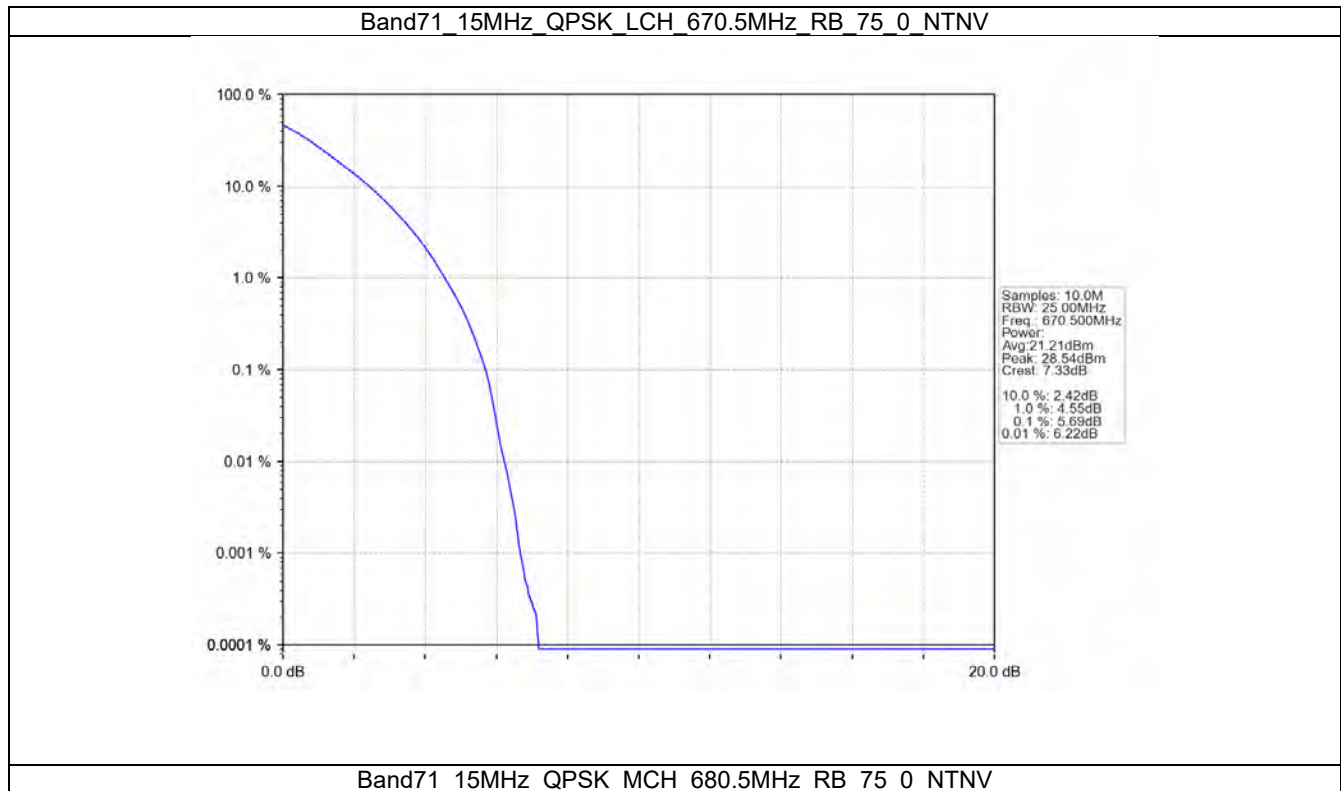
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4.3.2 Test Graph



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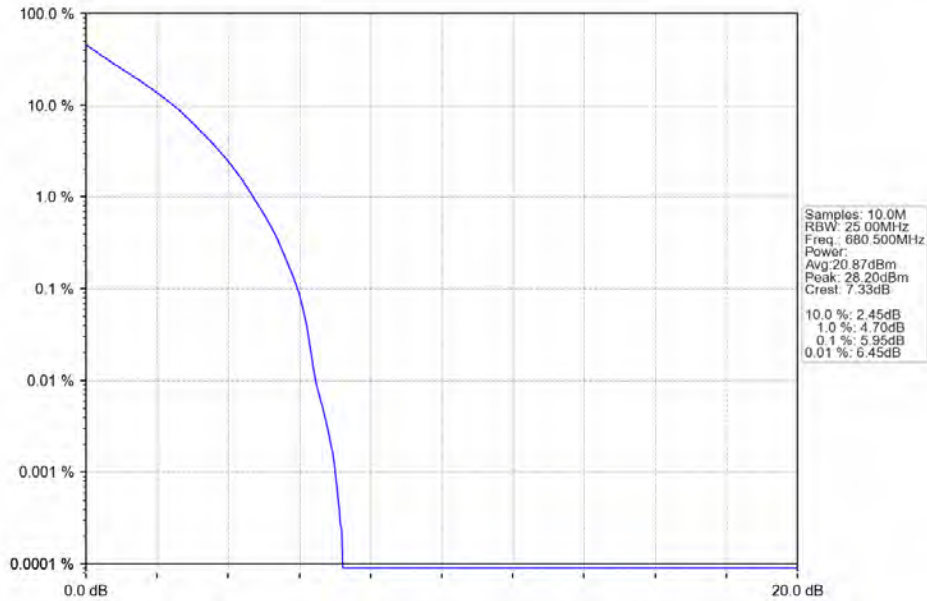
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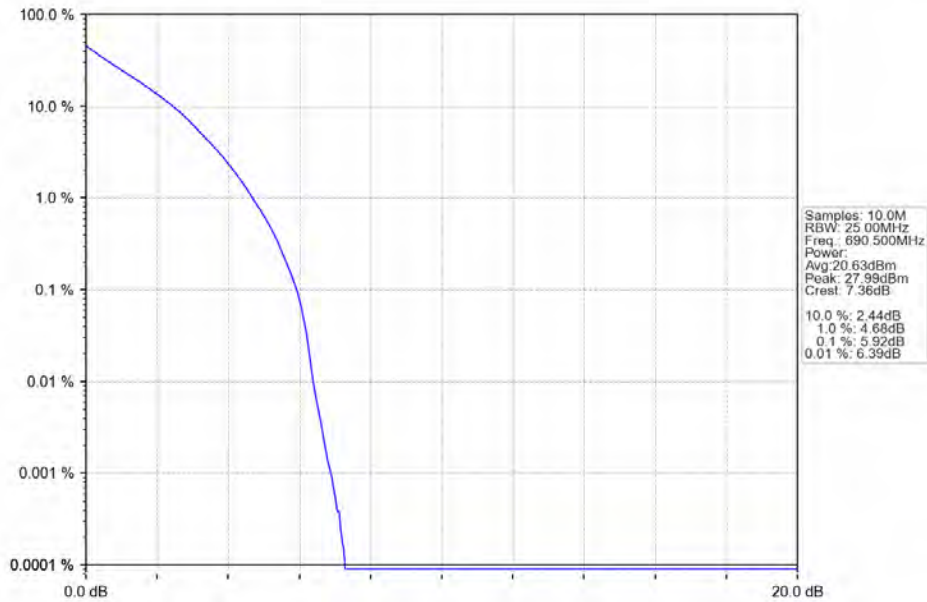
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Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



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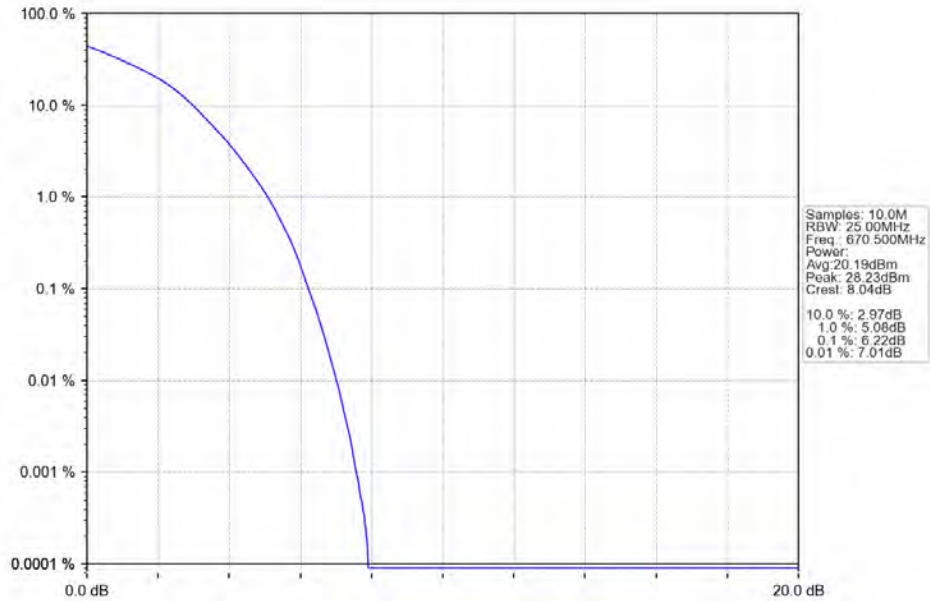
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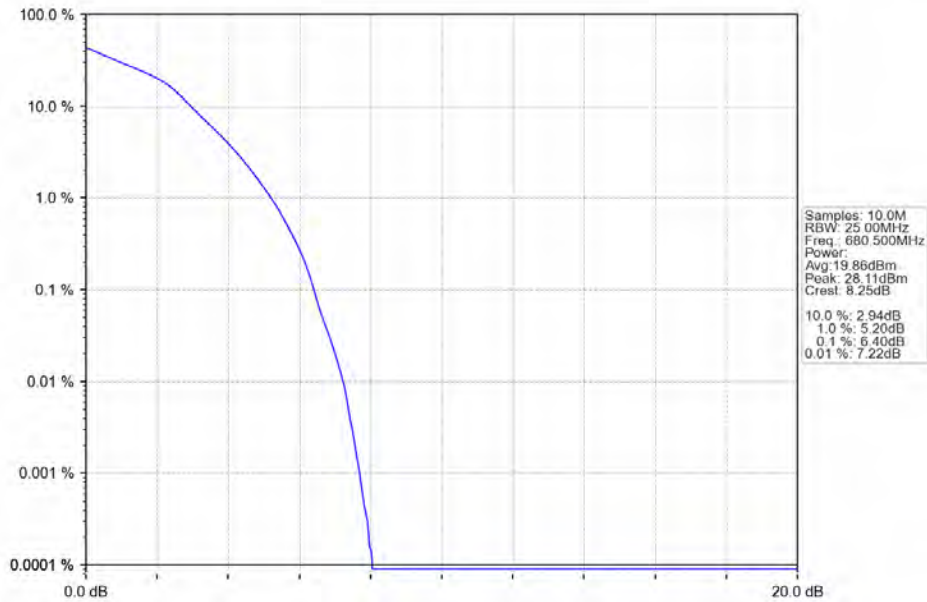
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Band71_15MHz_16QAM_HCH_690.5MHz_RB_75_0_NTNV



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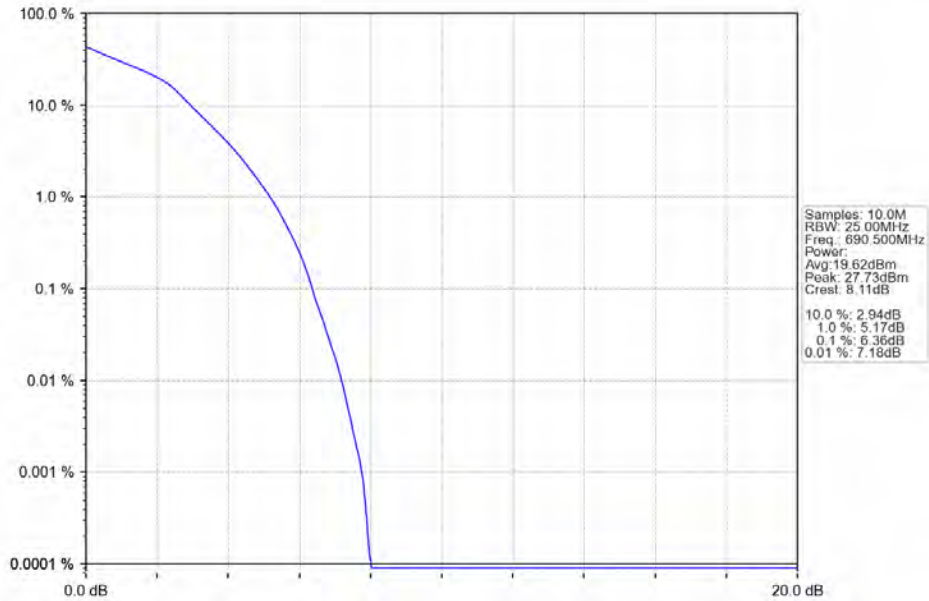
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4.4 B71_20MHz

4.4.1 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	5.58	<=13	Pass
	683	100	0	5.55	<=13	Pass
	688	100	0	5.61	<=13	Pass
16QAM	673	100	0	6.31	<=13	Pass
	683	100	0	6.31	<=13	Pass
	688	100	0	6.29	<=13	Pass



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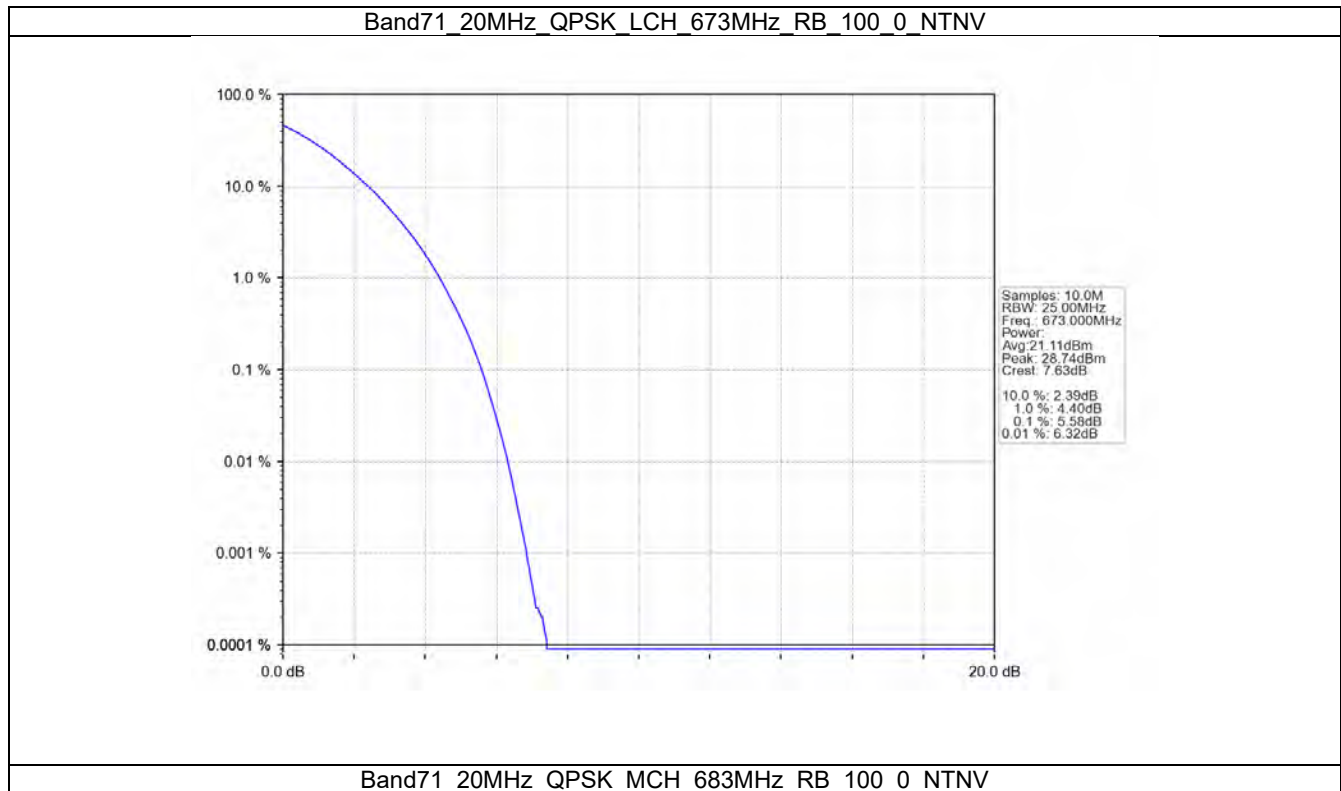
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4.4.2 Test Graph



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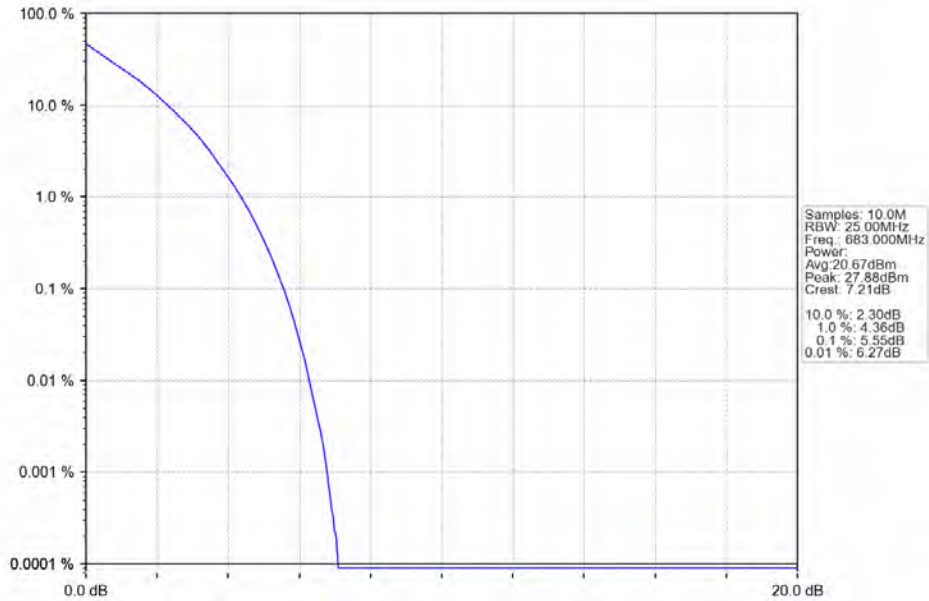
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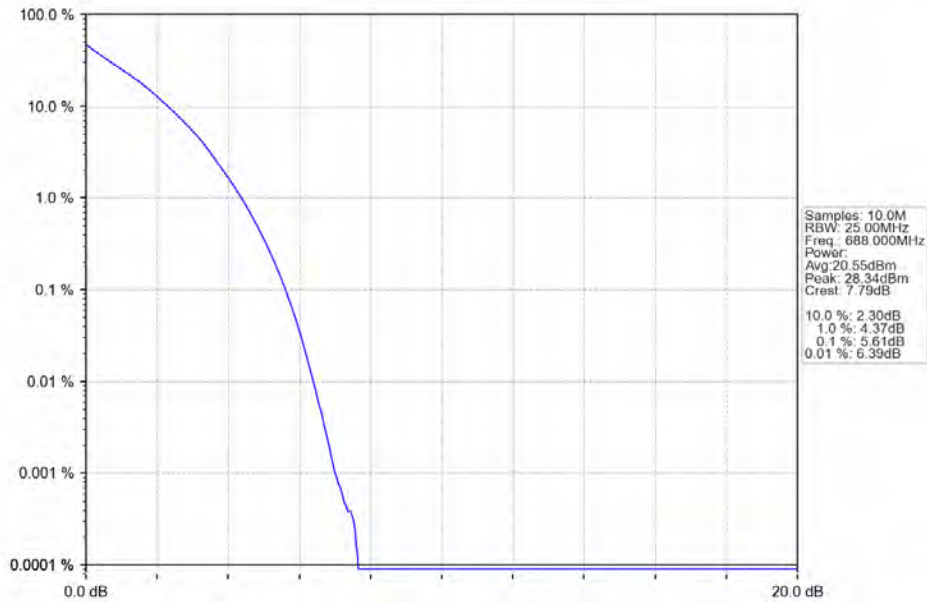
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Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV



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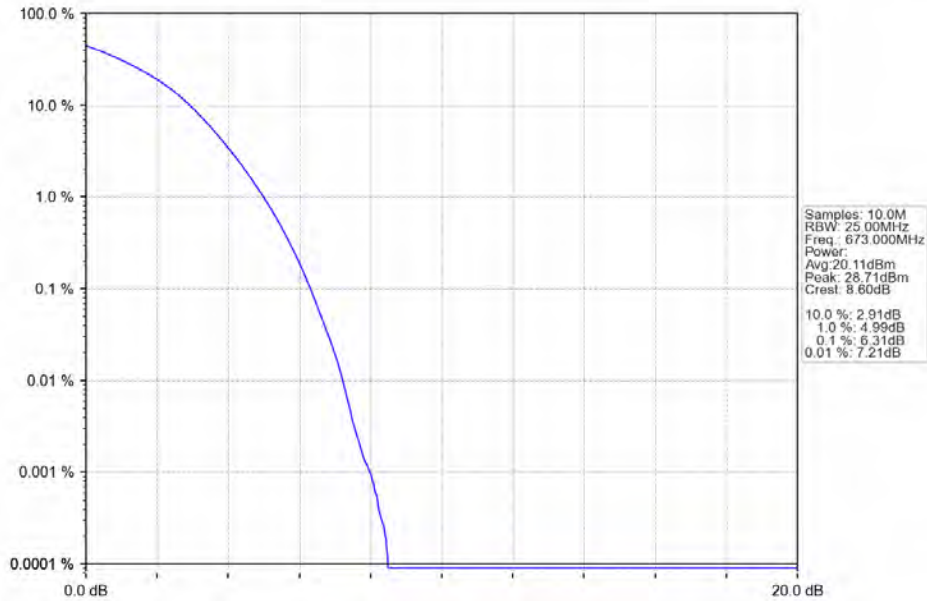
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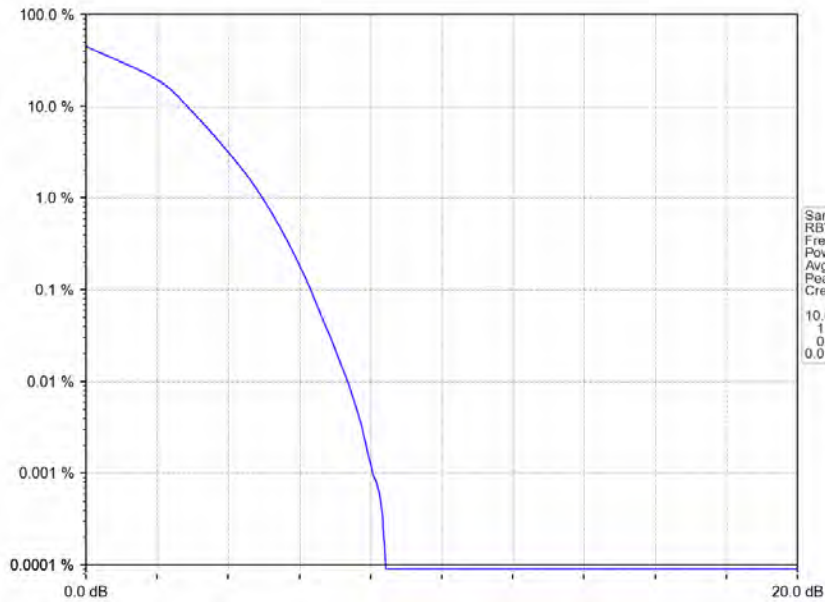
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Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV



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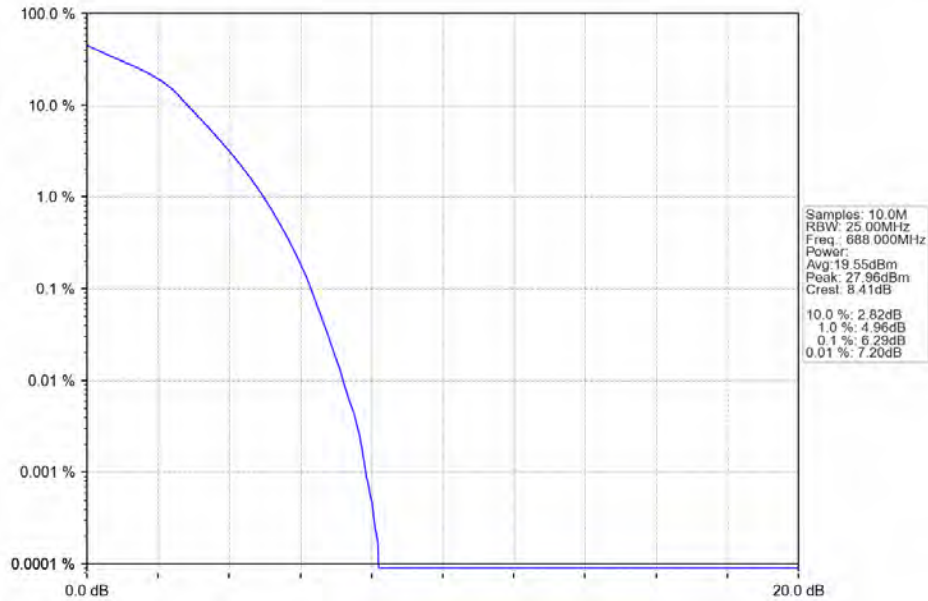
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5. Spurious Emission & Band Edges

5.1 B71_5MHz

5.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTVN						
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		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
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		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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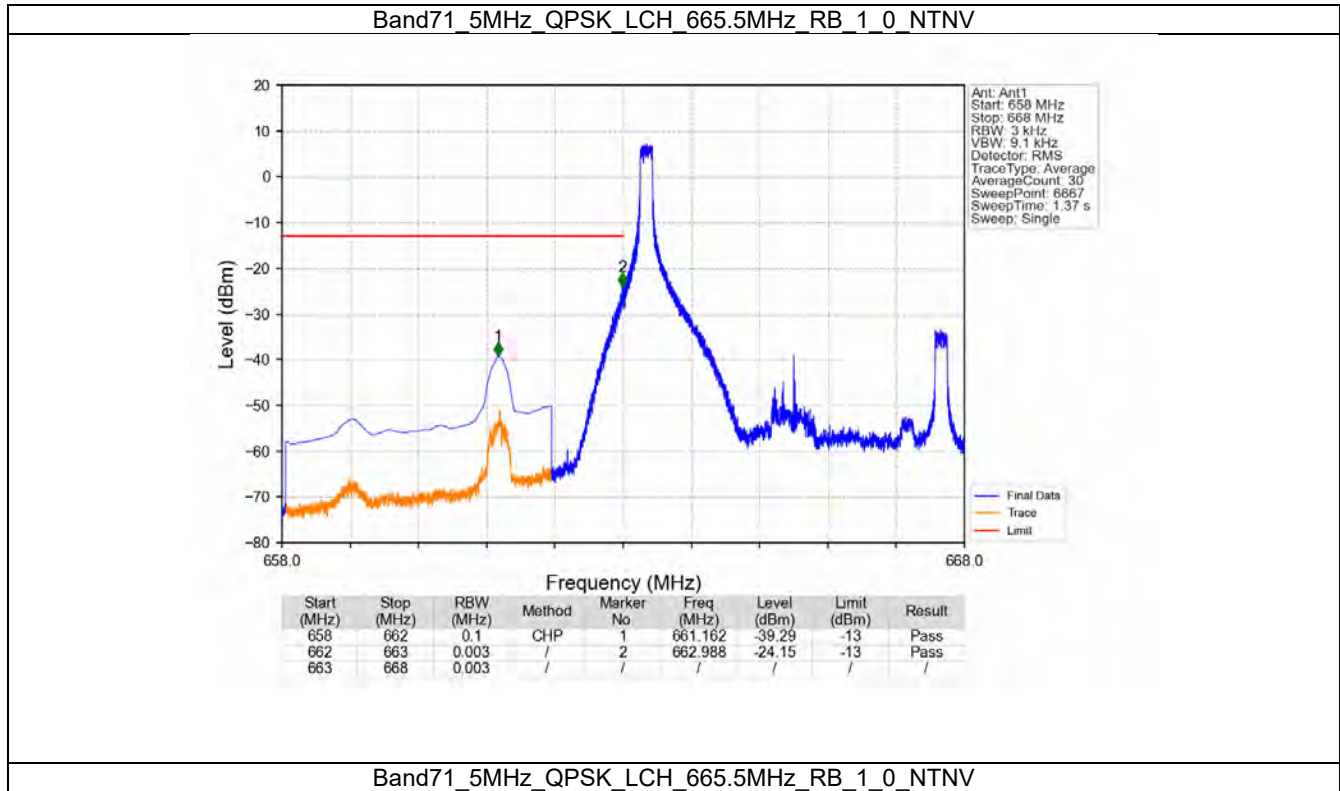
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5.1.2 Test Graph



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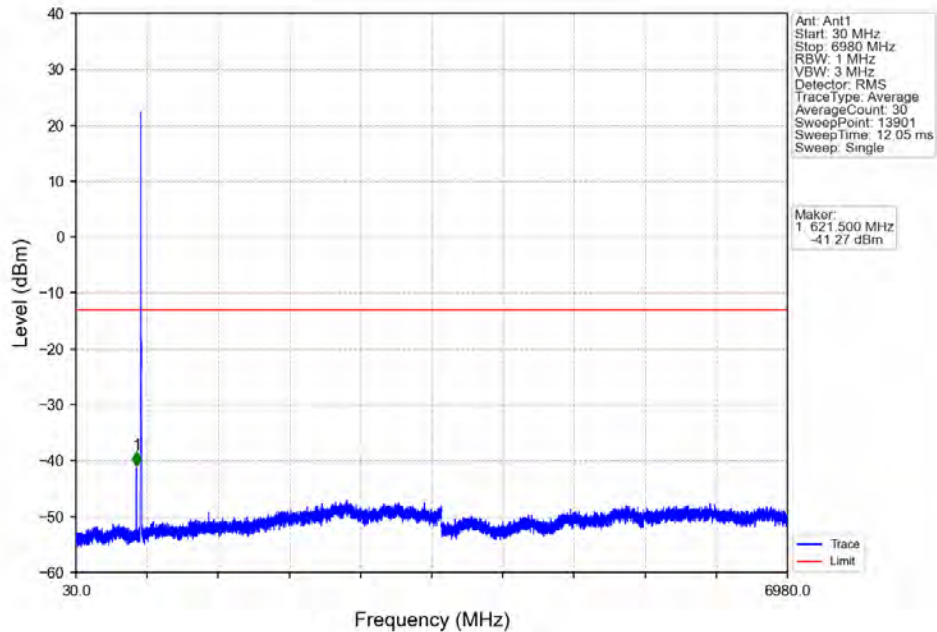
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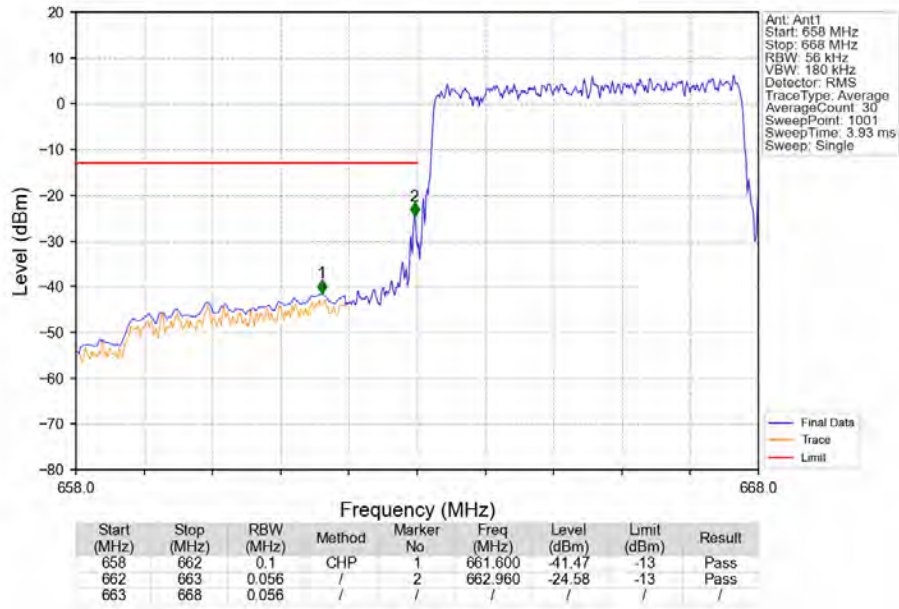
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Band71_5MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



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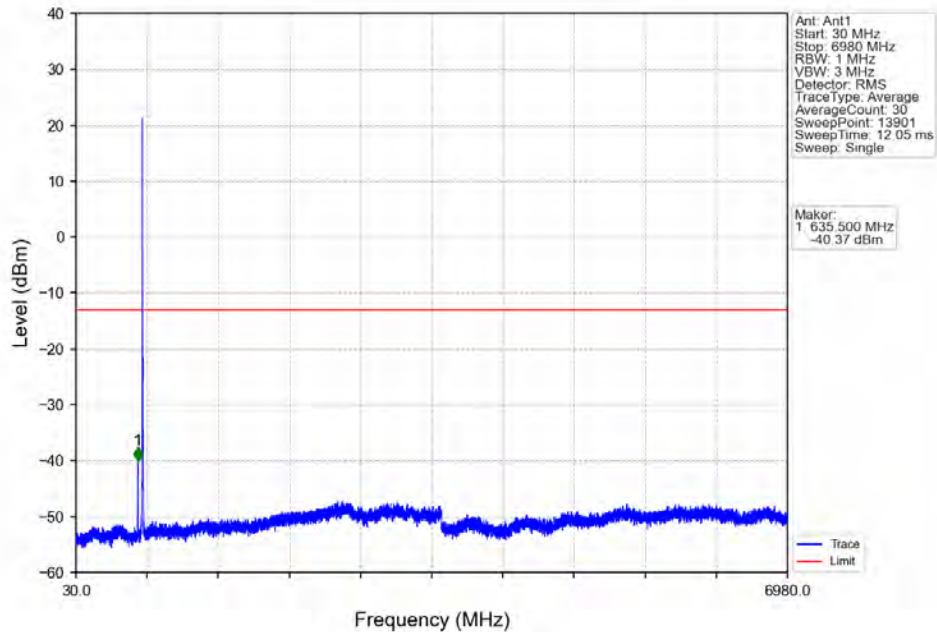
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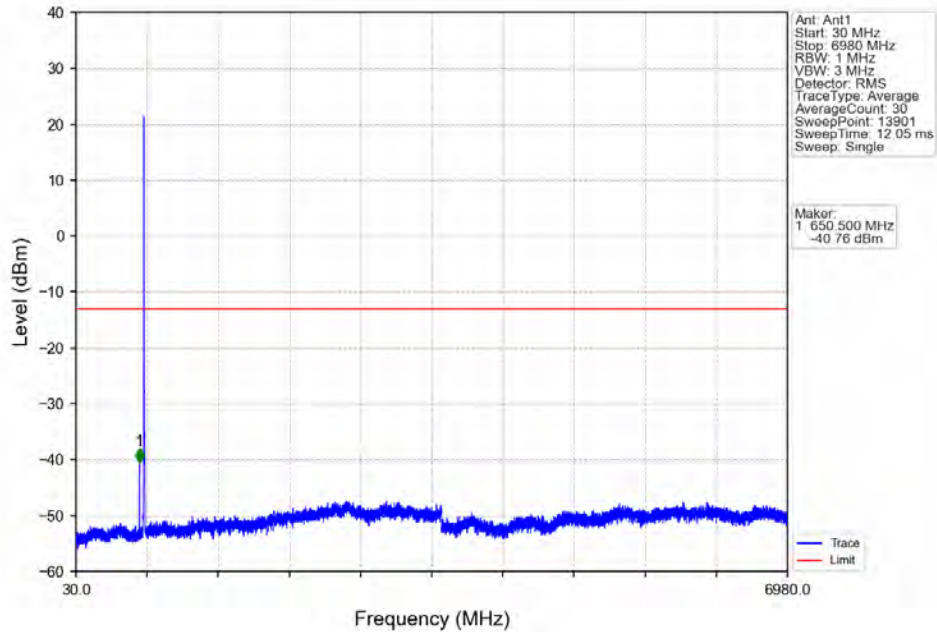
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Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_24_NTNV



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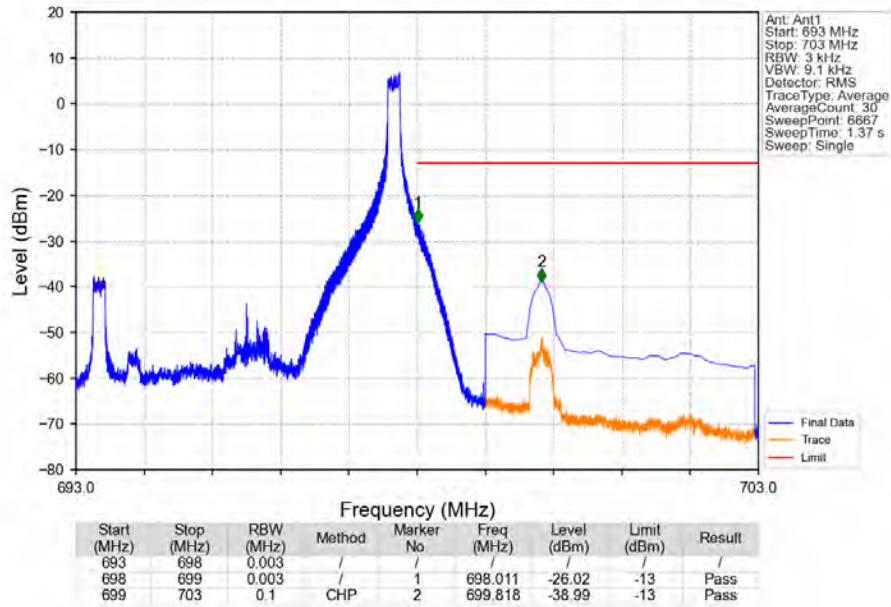
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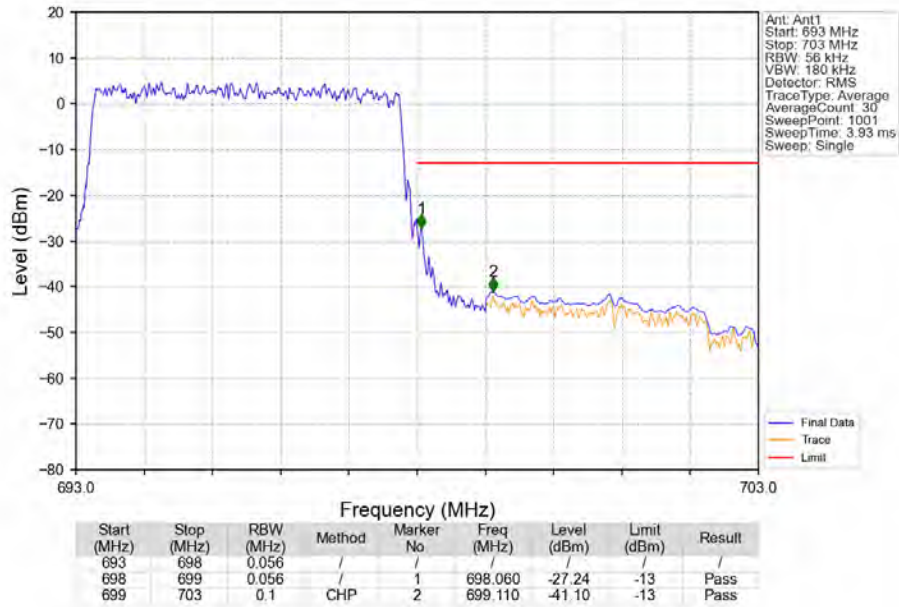
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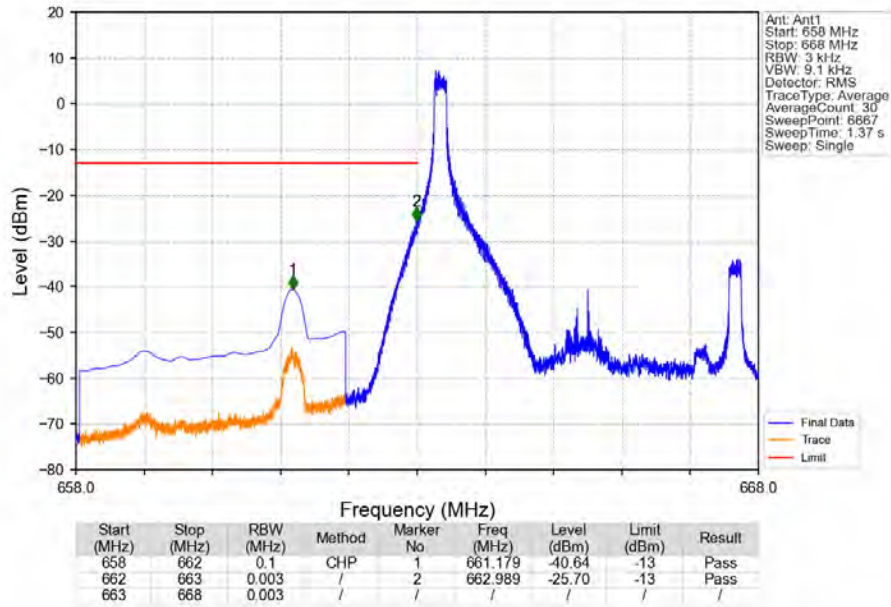
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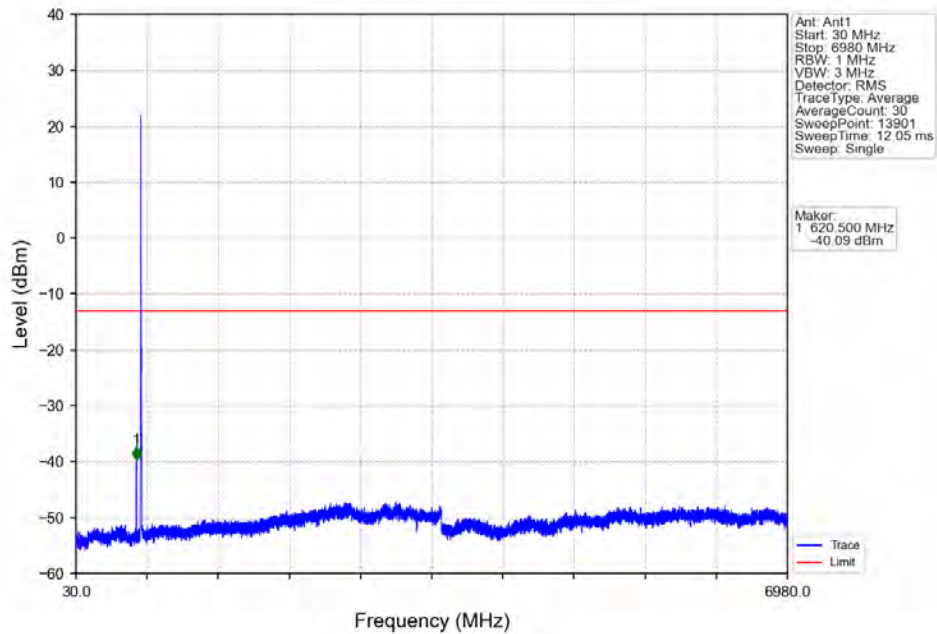
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Band71_5MHz_16QAM_LCH_665.5MHz_RB_1_0_NTNV



Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



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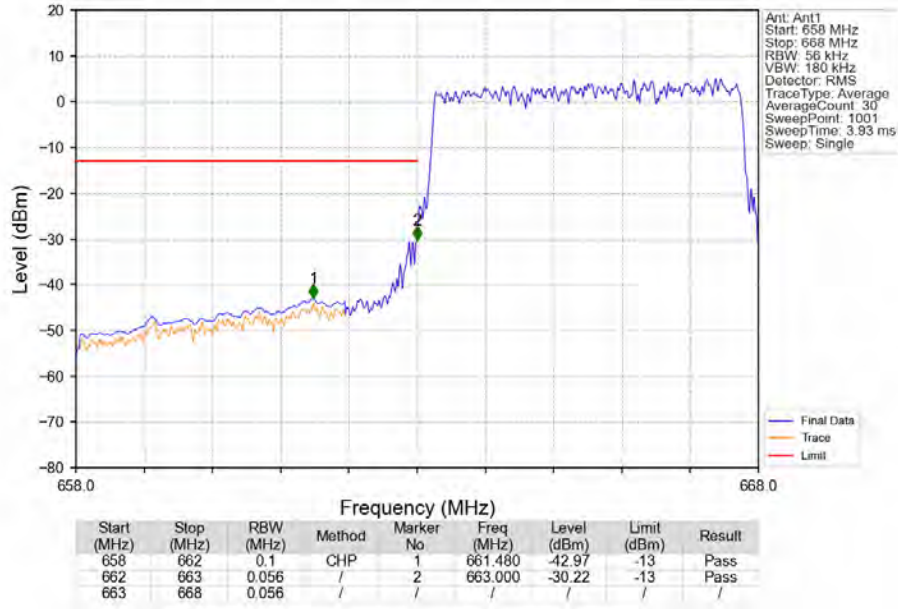
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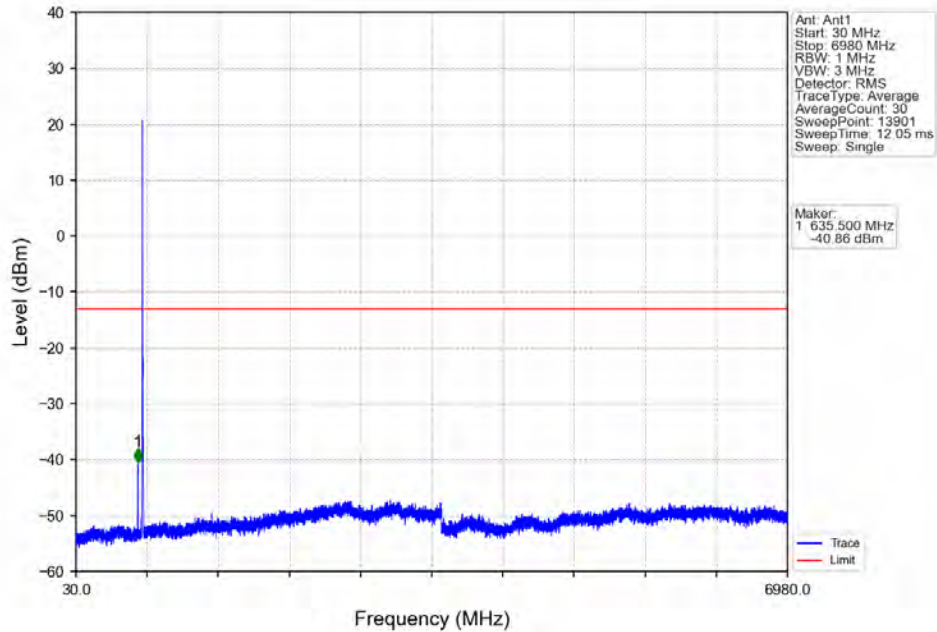
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Band71_5MHz_16QAM_HCH_695.5MHz_RB_1_0_NTNV



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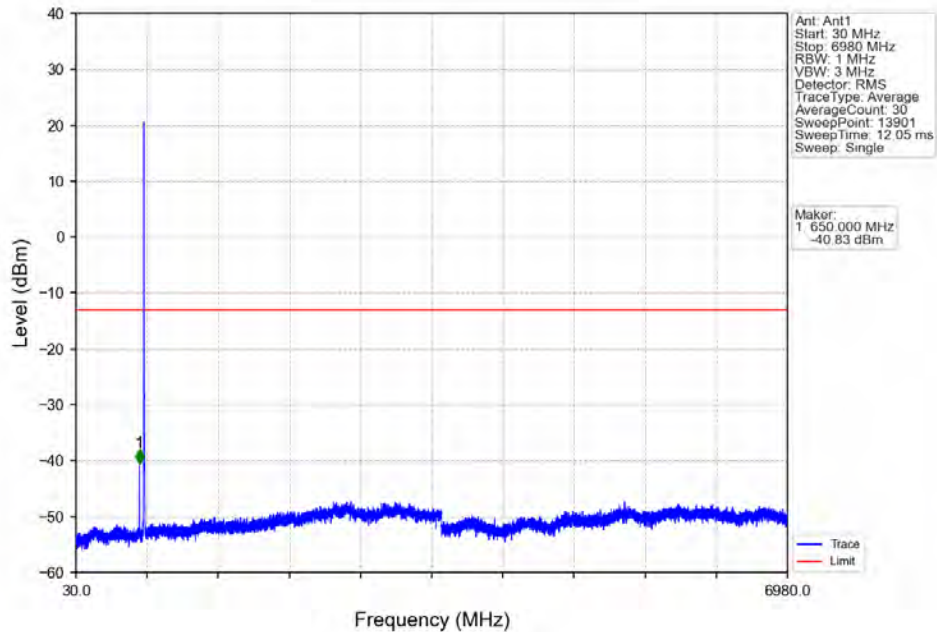
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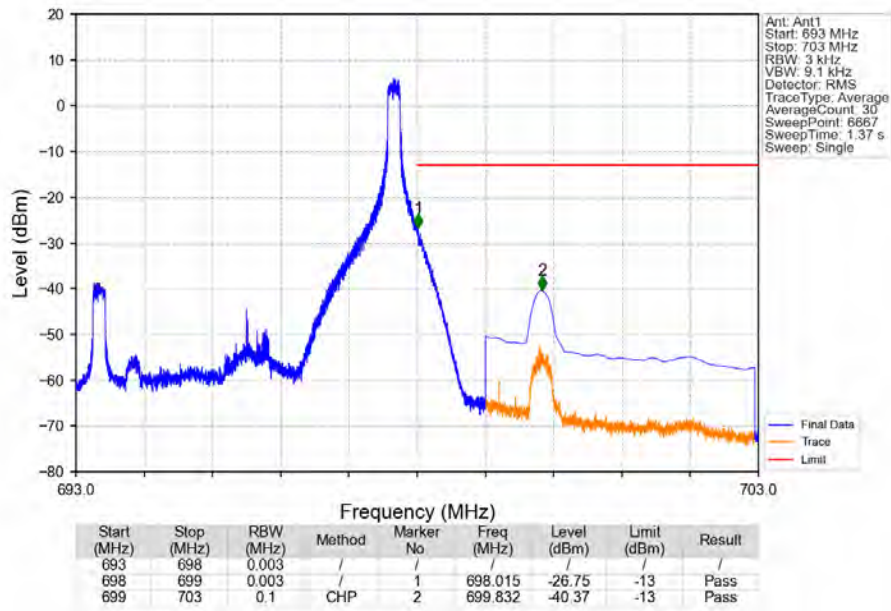
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Band71 5MHz 16QAM HCH 695.5MHz RB 1 24 NTNV



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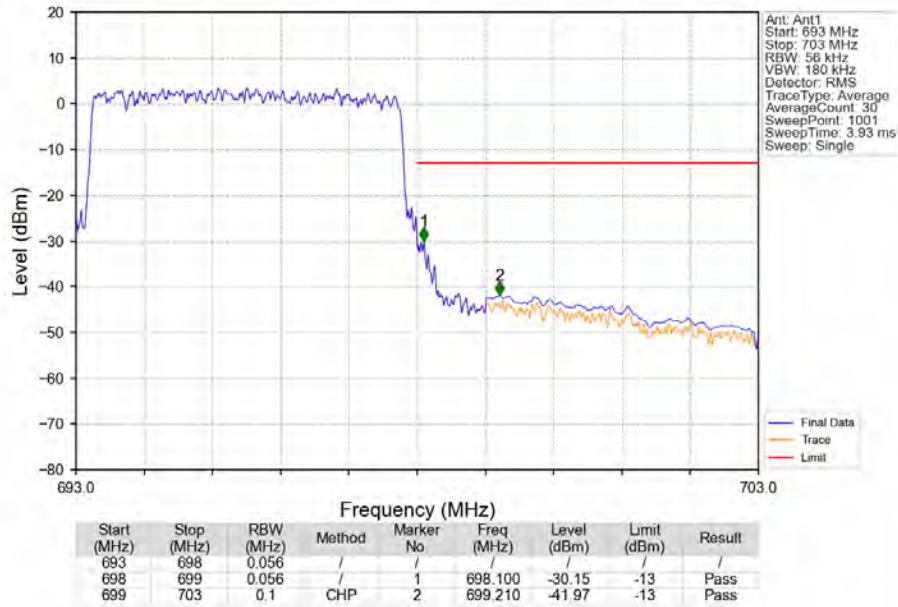
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5.2 B71_10MHz

5.2.1 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
	680.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	693	1	49	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
	680.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	693	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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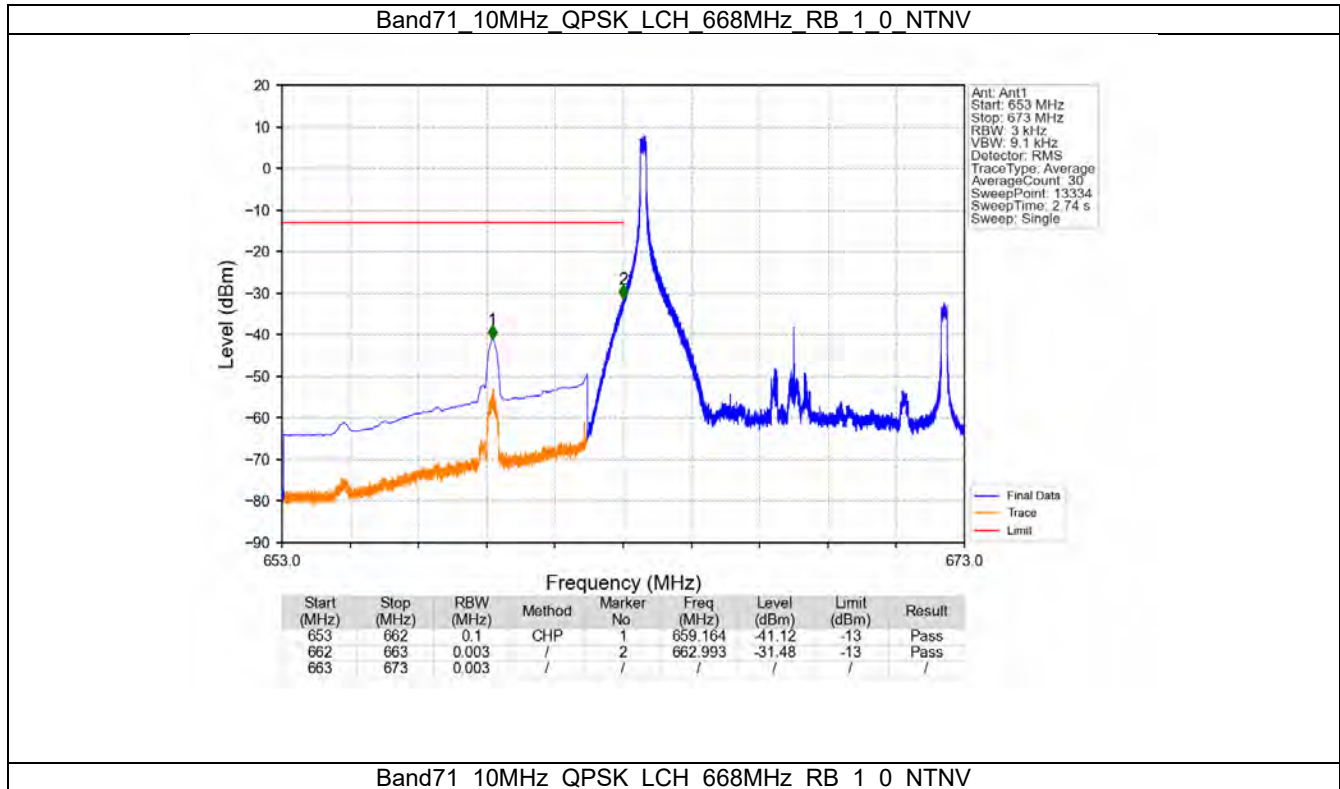
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5.2.2 Test Graph



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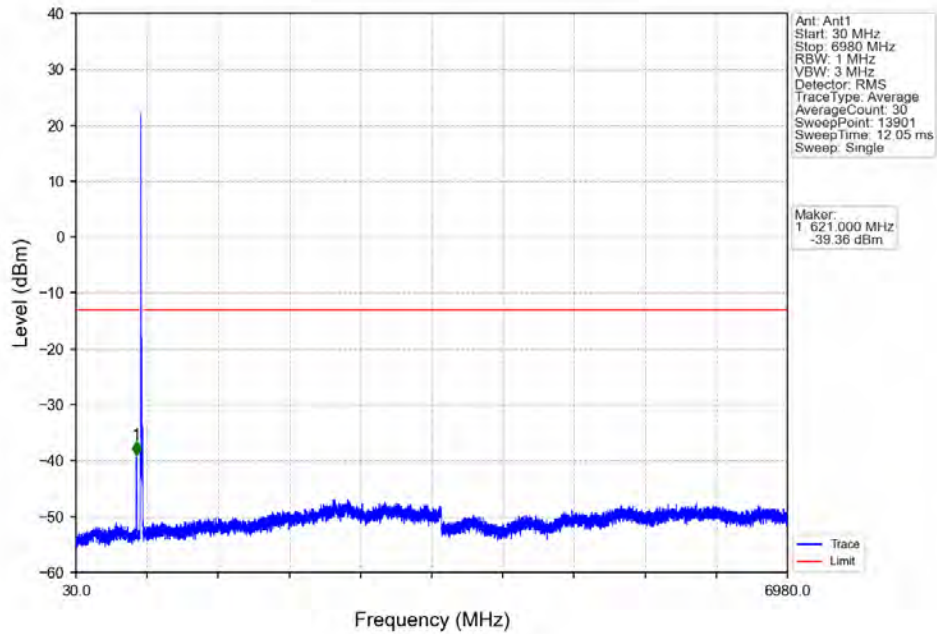
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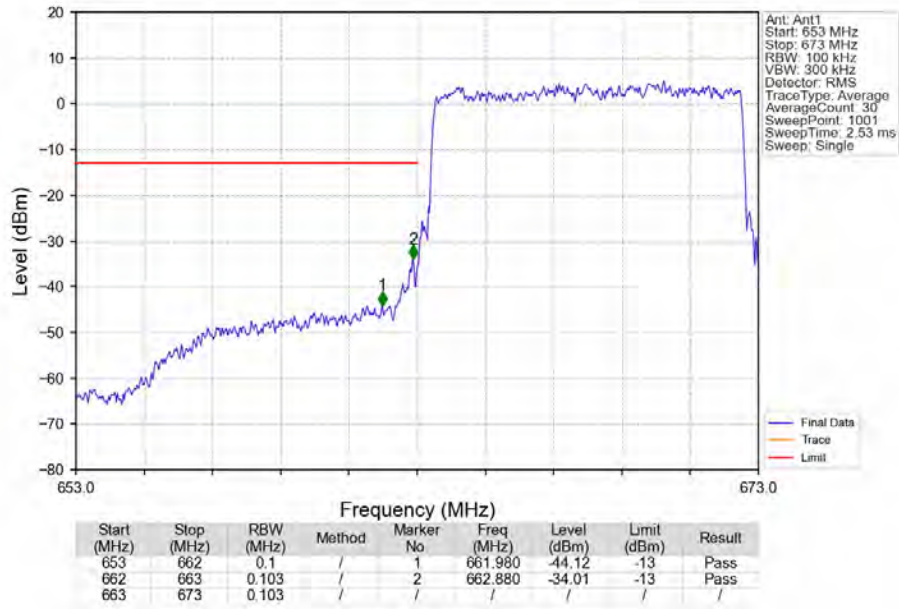
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Band71_10MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



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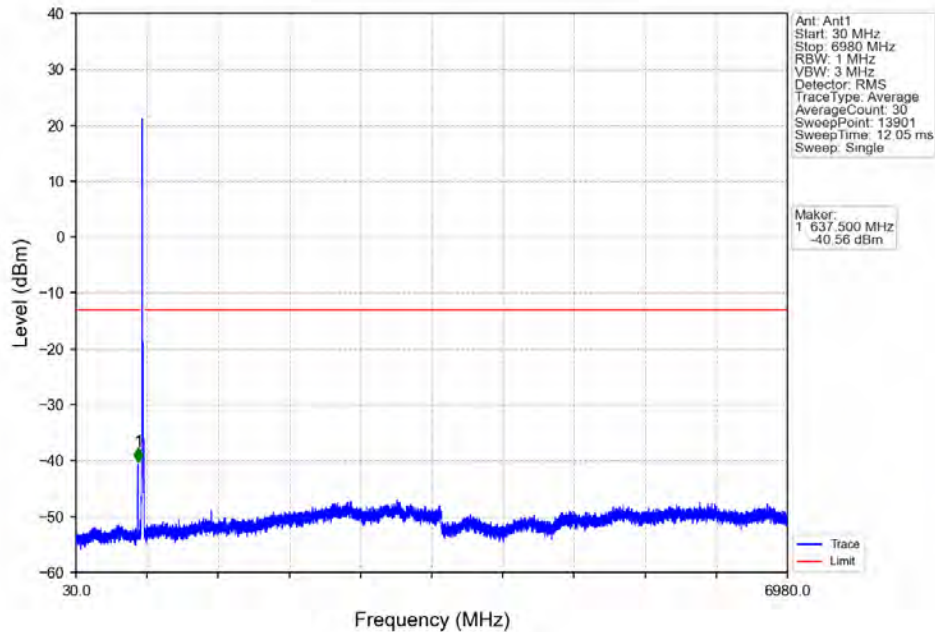
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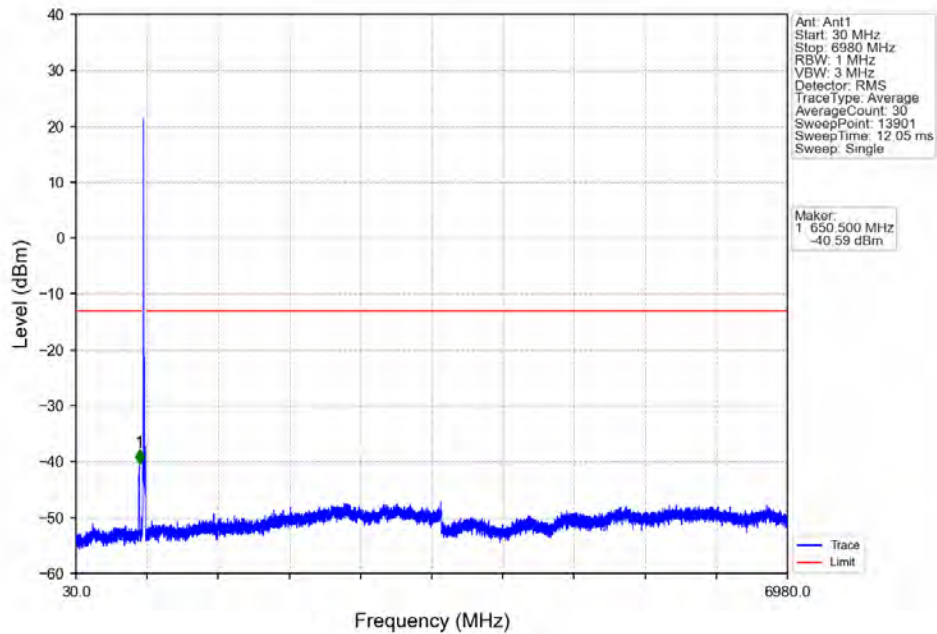
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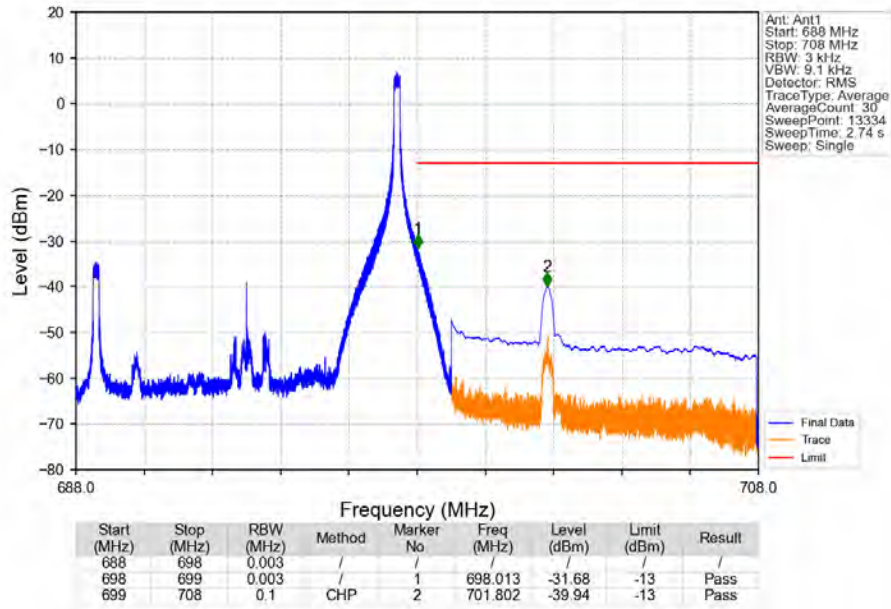
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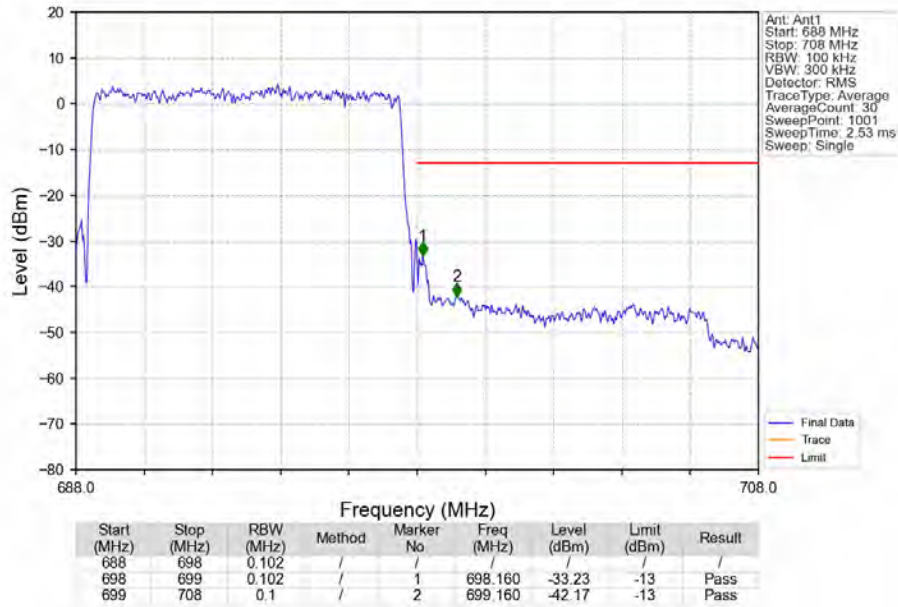
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Band71 10MHz QPSK HCH 693MHz RB 50 0 NTNV



Band71 10MHz 16QAM LCH 668MHz RB 1 0 NTNV



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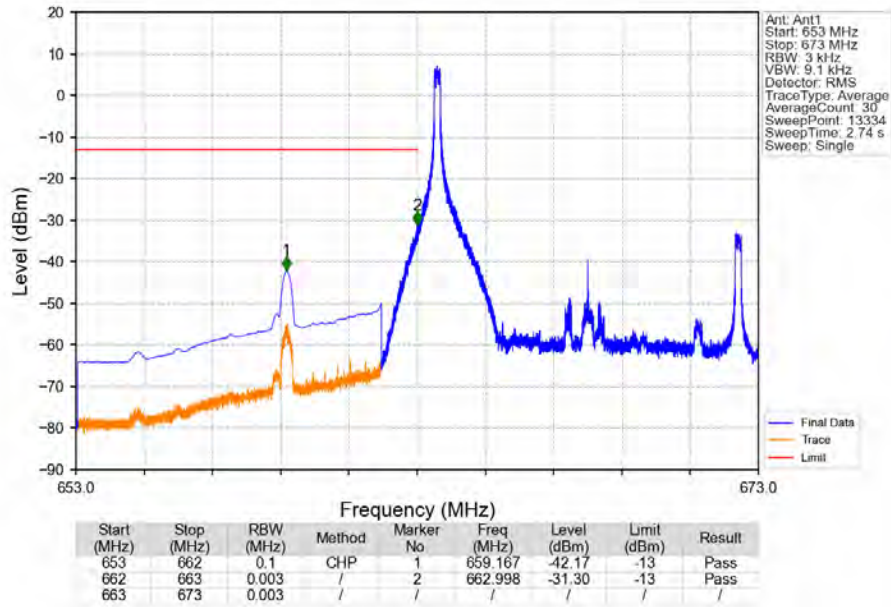
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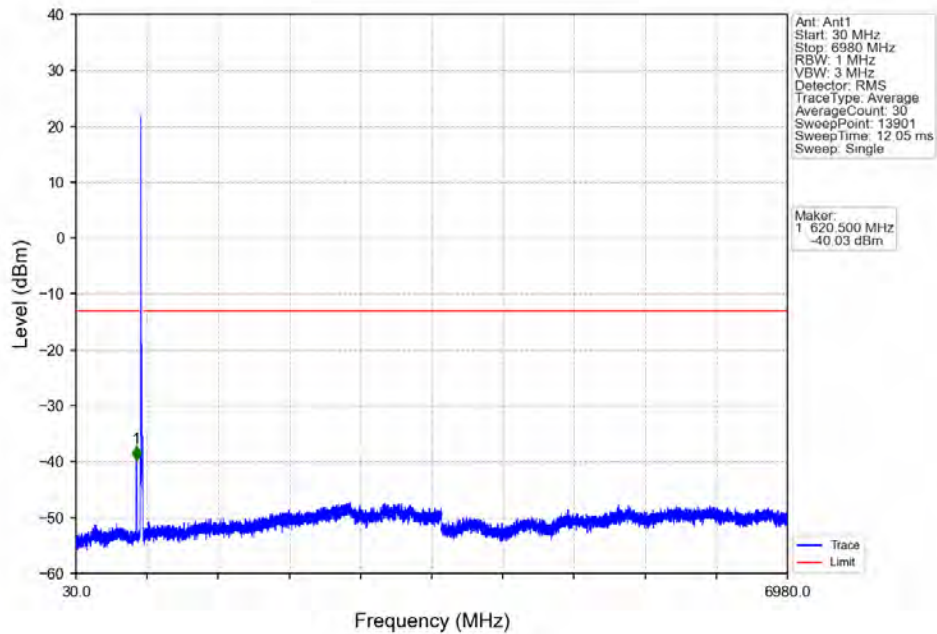
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Band71_10MHz_16QAM_LCH_668MHz_RB_1_0_NTNV



Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



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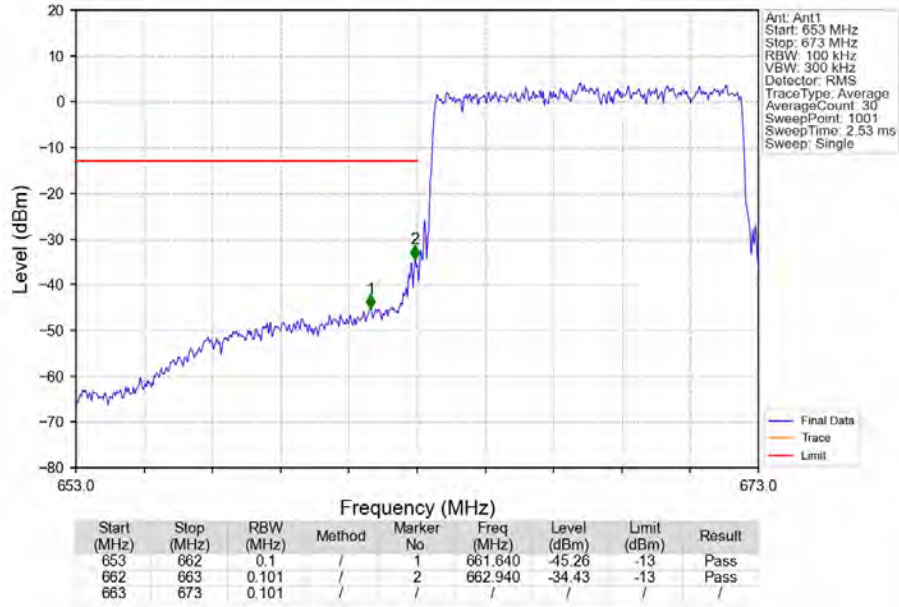
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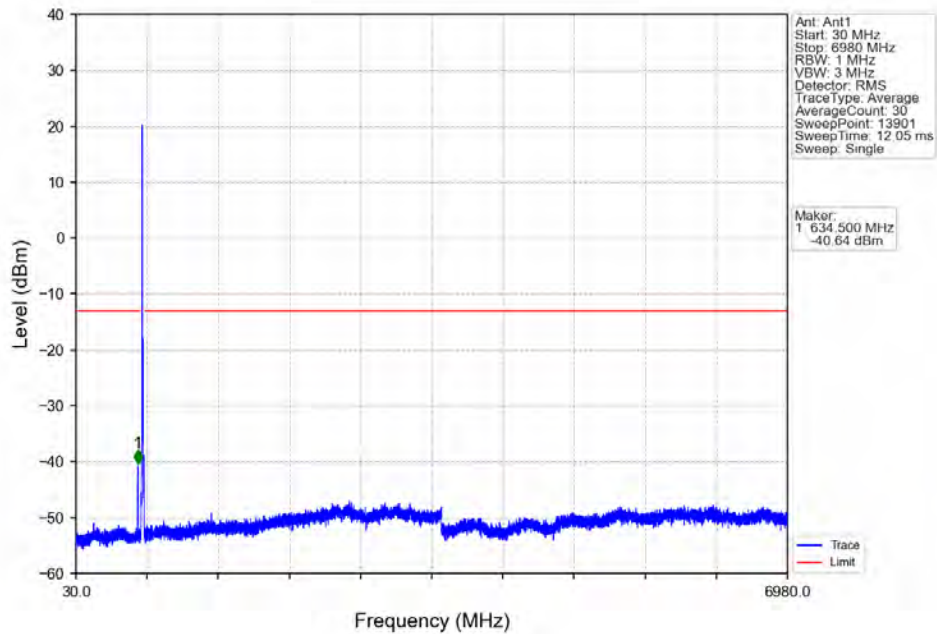
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Band71_10MHz_16QAM_MCH_680.5MHz_RB_1_0_NTNV



Band71_10MHz_16QAM_HCH_693MHz_RB_1_0_NTNV



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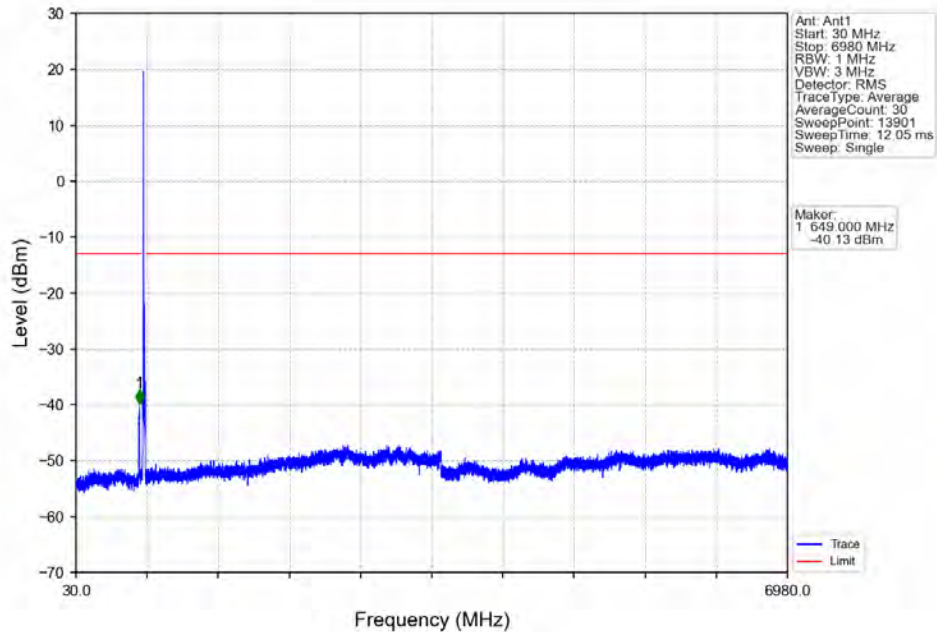
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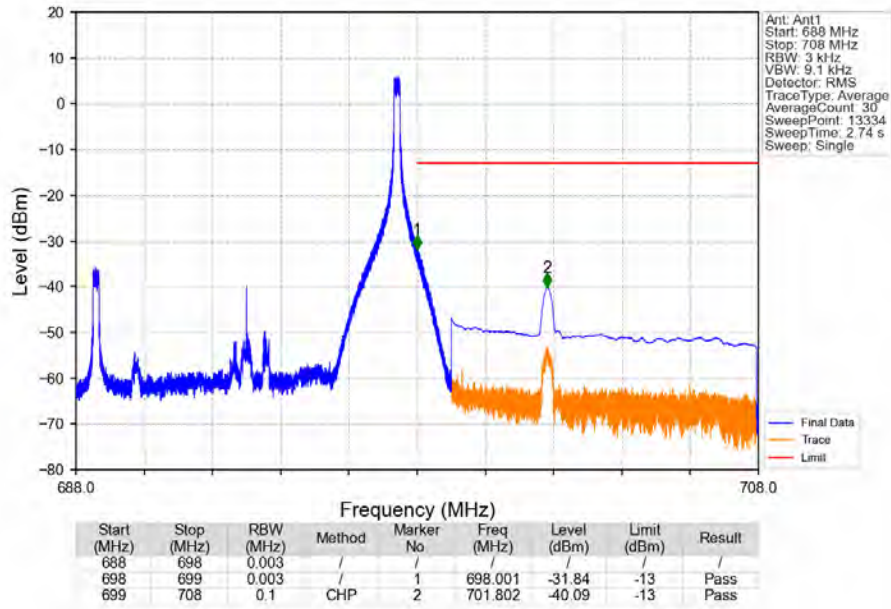
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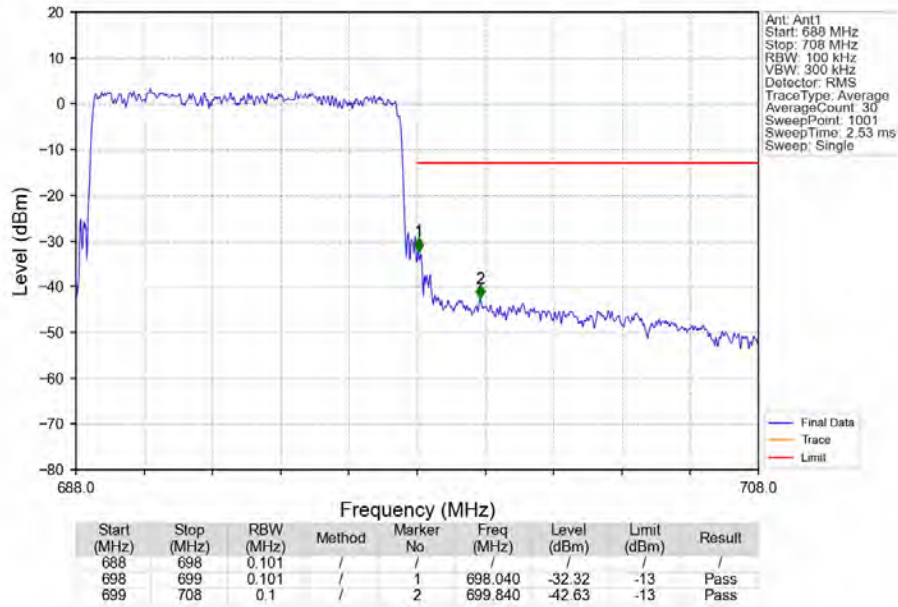
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5.3 B71_15MHz

5.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTNV						
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
	680.5	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
	680.5	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



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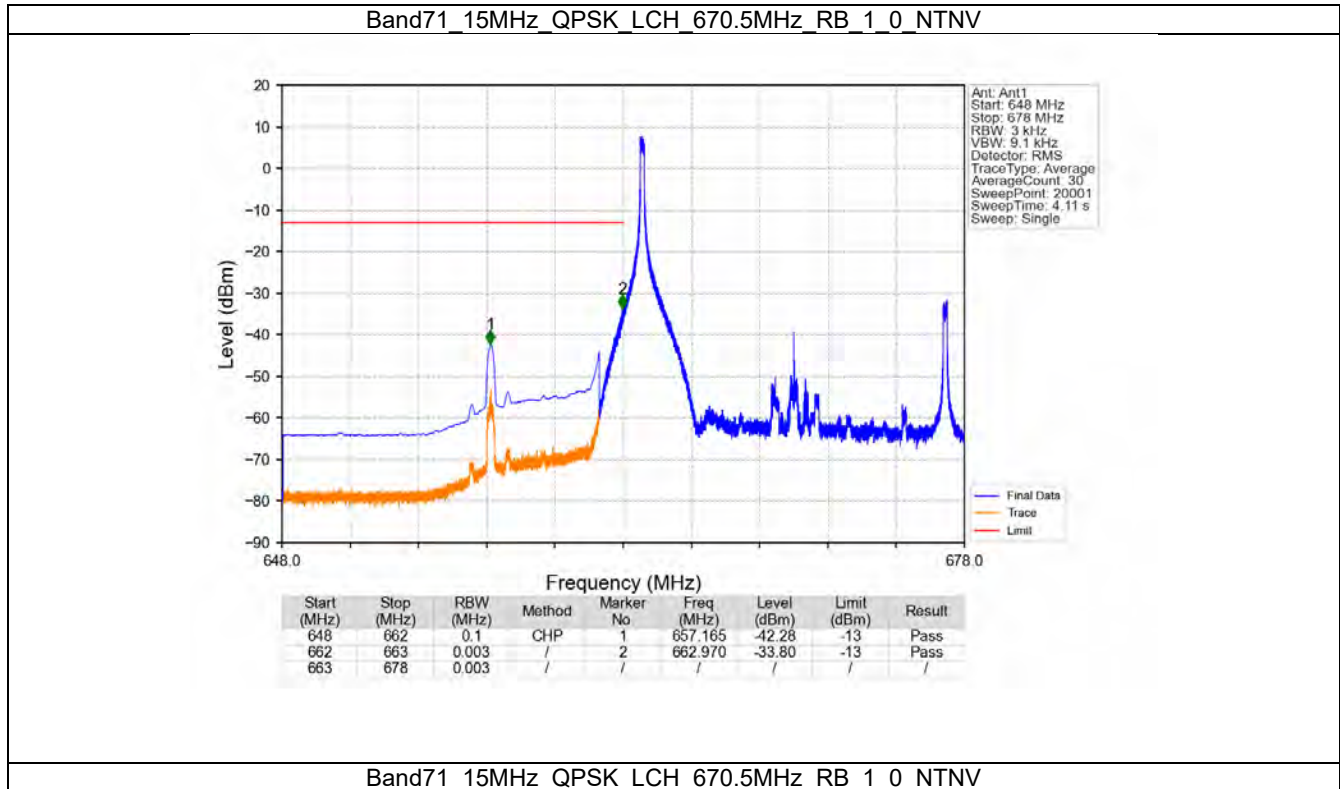
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5.3.2 Test Graph



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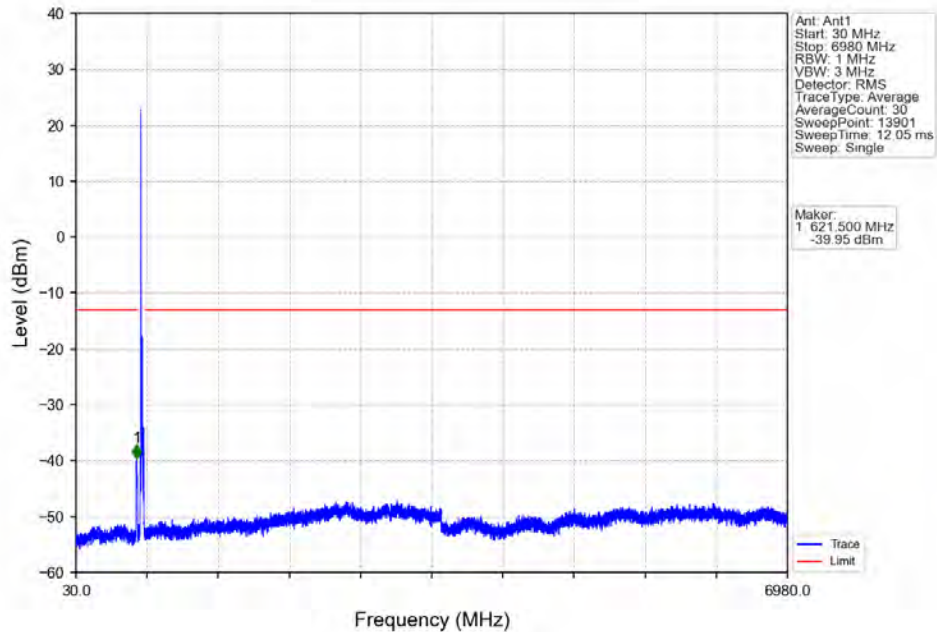
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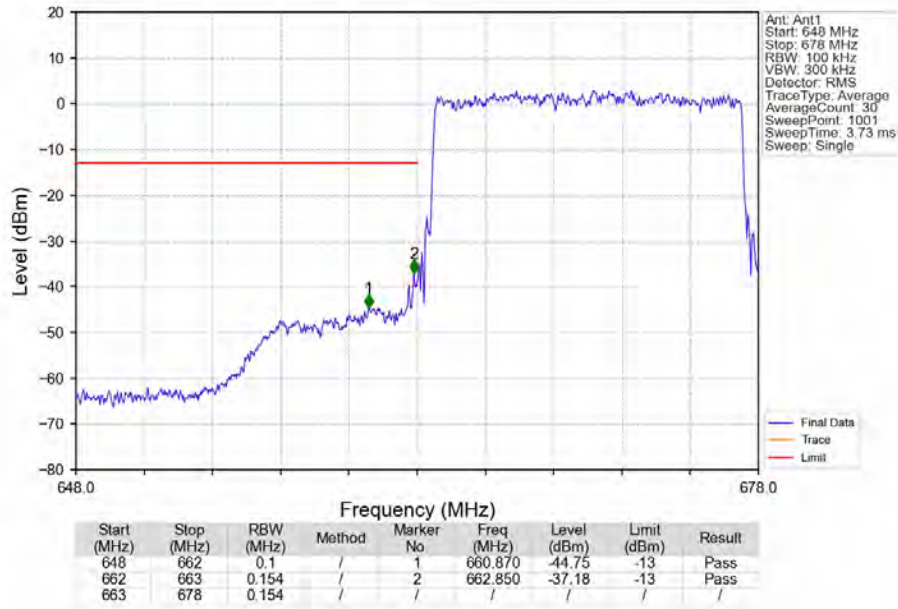
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Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



Band71_15MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



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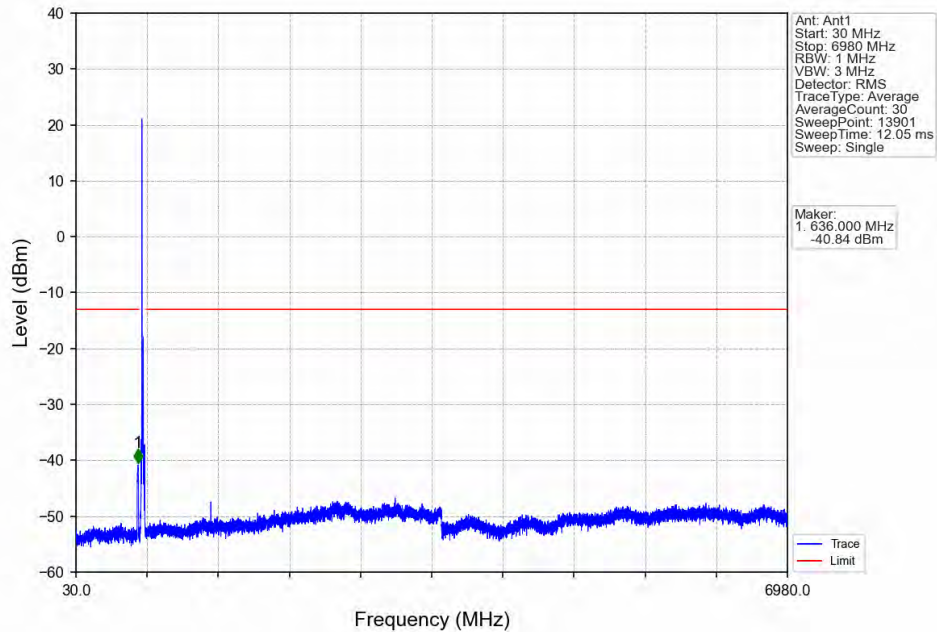
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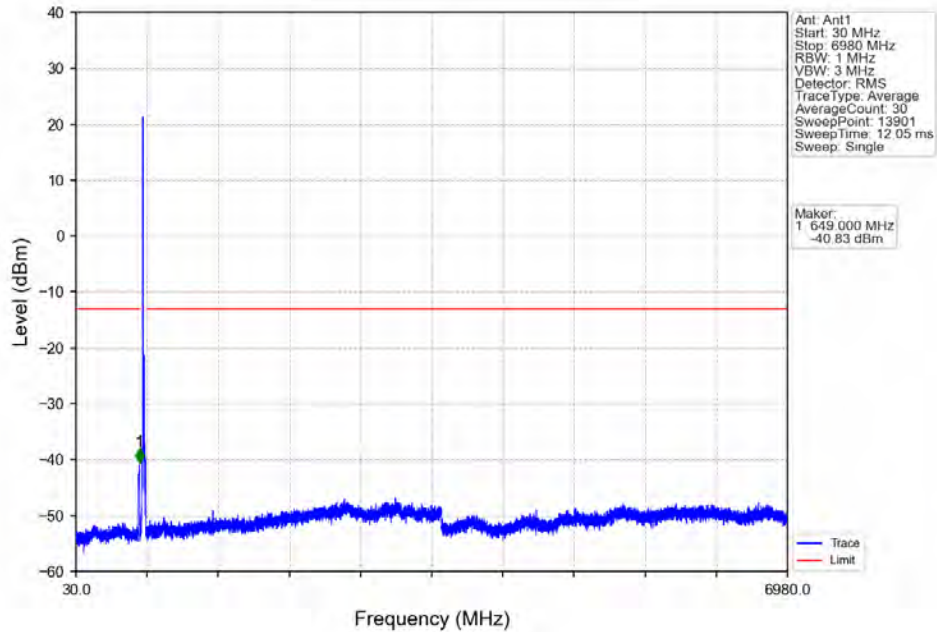
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Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_0_NTNV



Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_74_NTNV



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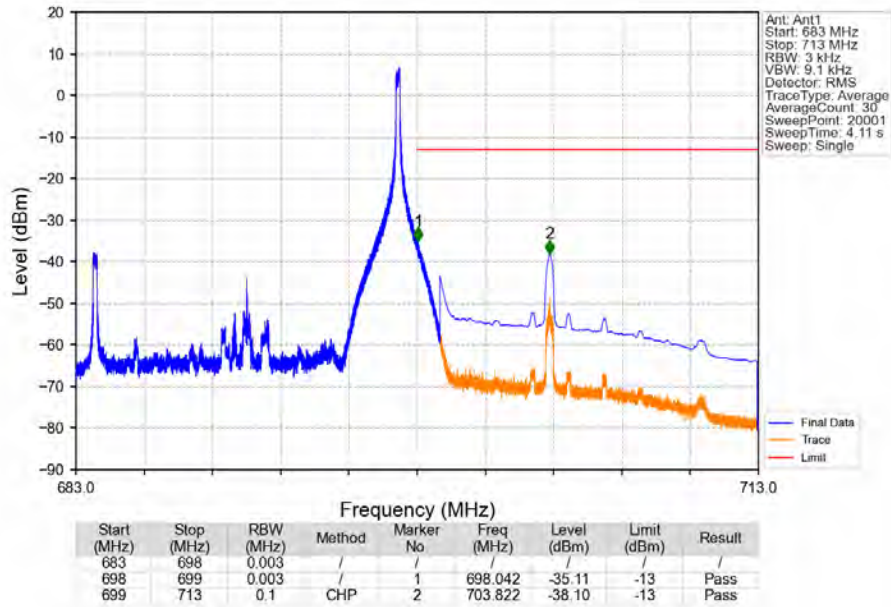
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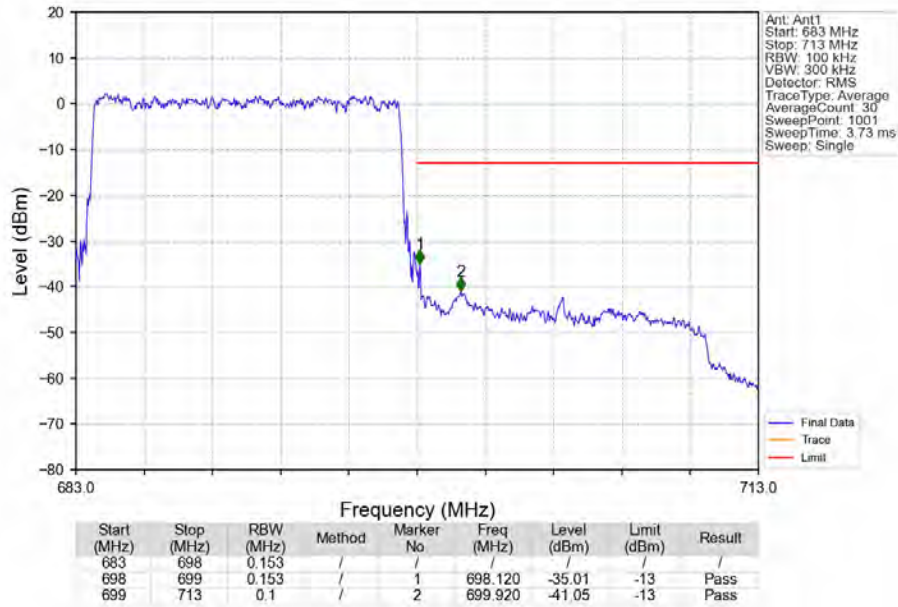
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Band71_15MHz_16QAM_LCH_670.5MHz_RB_1_0_NTNV



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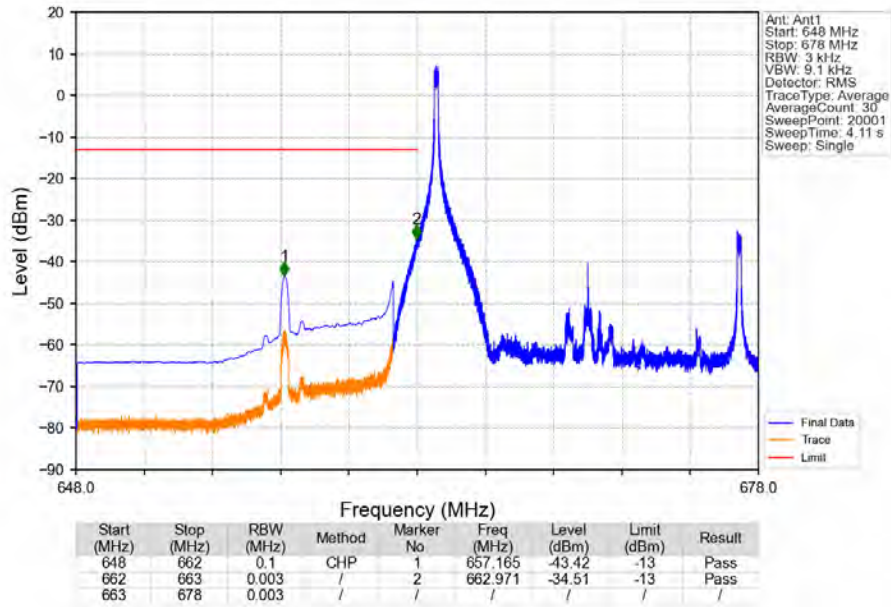
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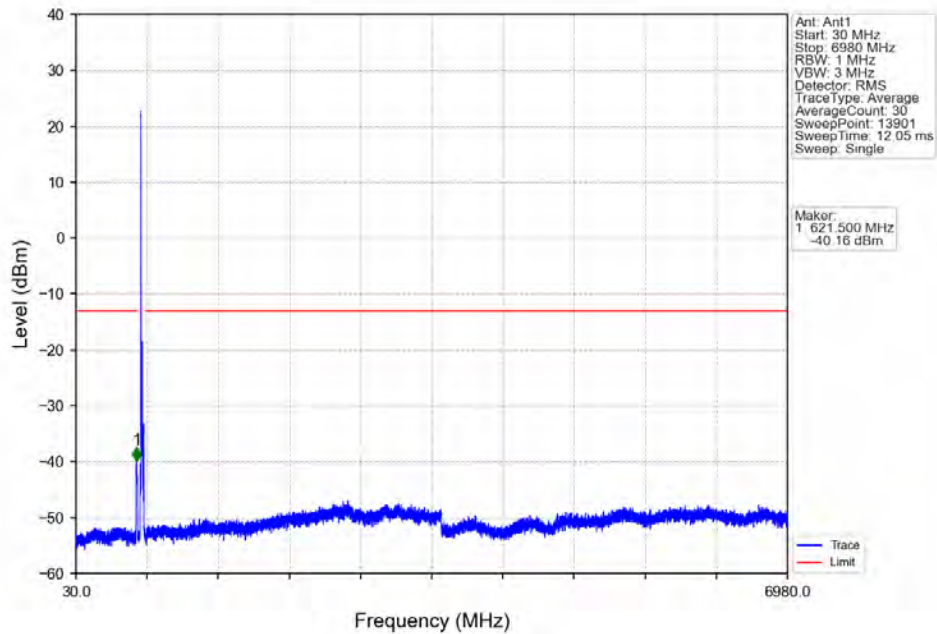
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Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



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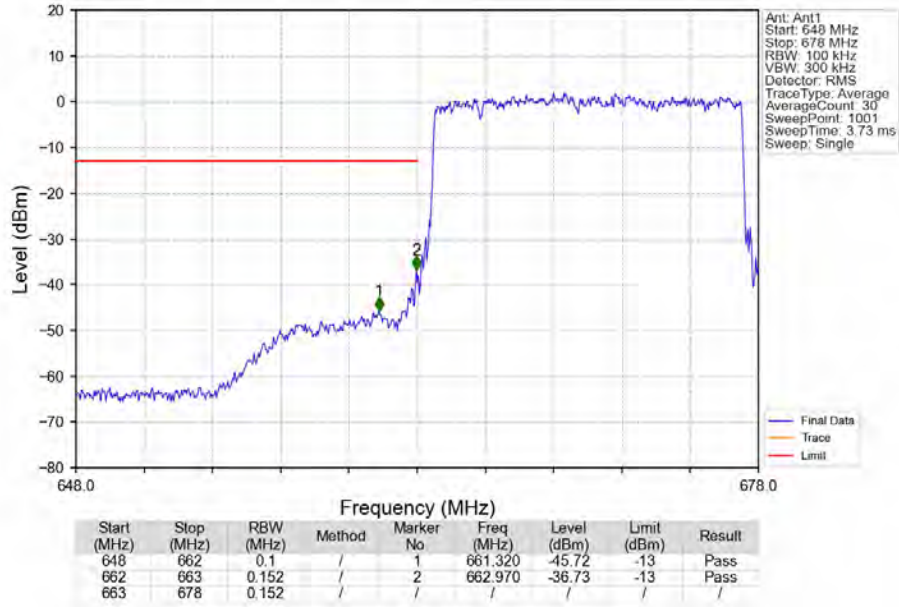
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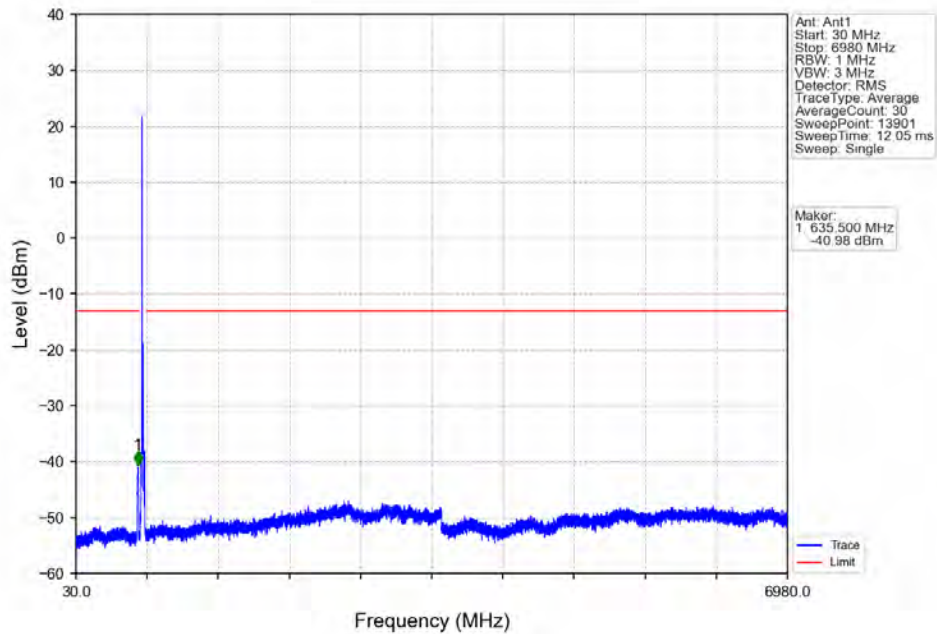
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Band71 15MHz 16QAM MCH 680.5MHz RB 1 0 NTNV



Band71 15MHz 16QAM HCH 690.5MHz RB 1 0 NTNV



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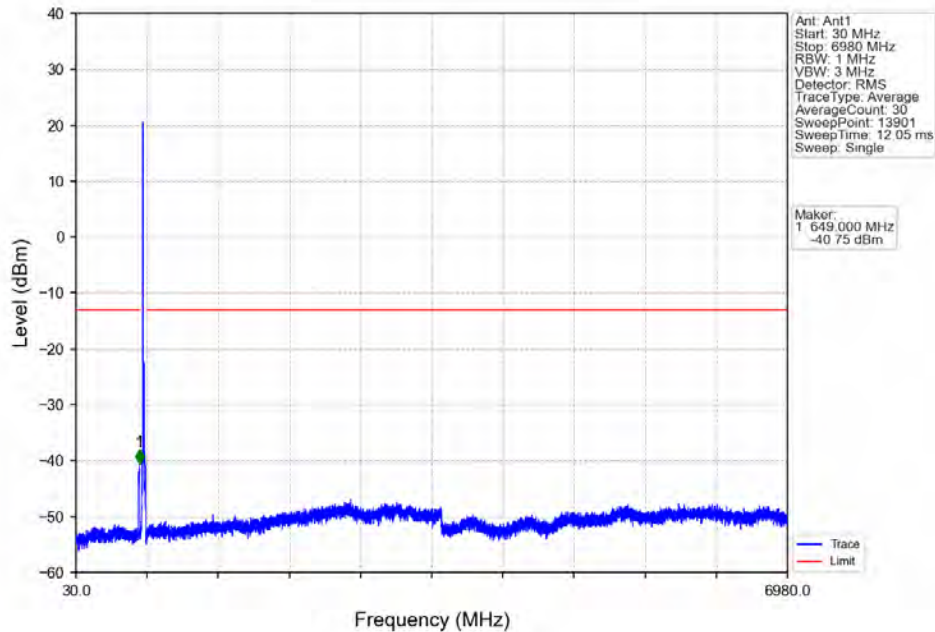
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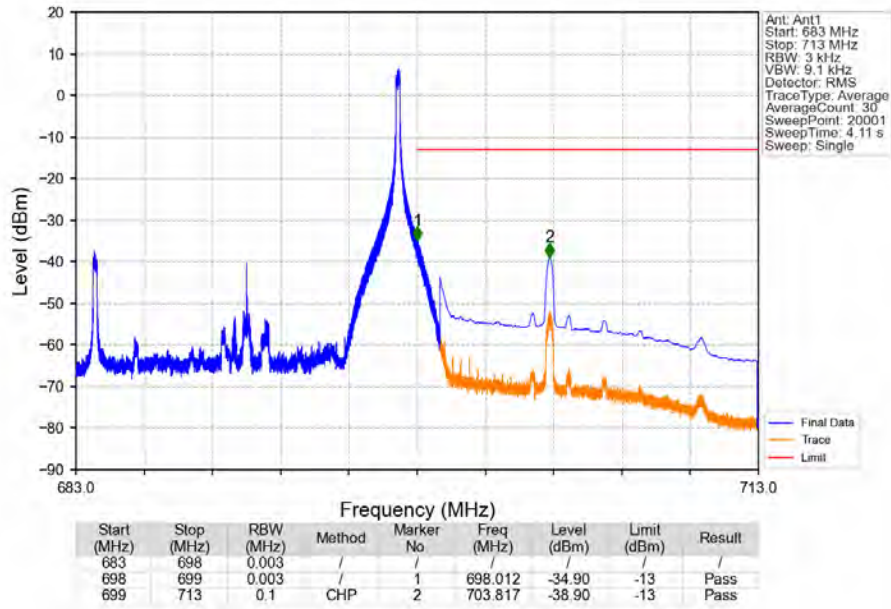
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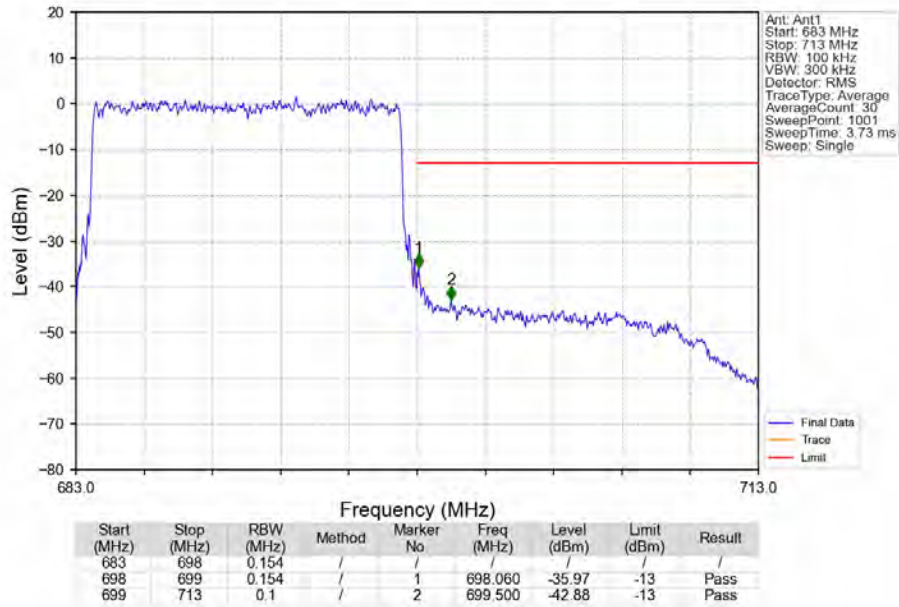
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5.4 B71_20MHz

5.4.1 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
	688	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	688	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



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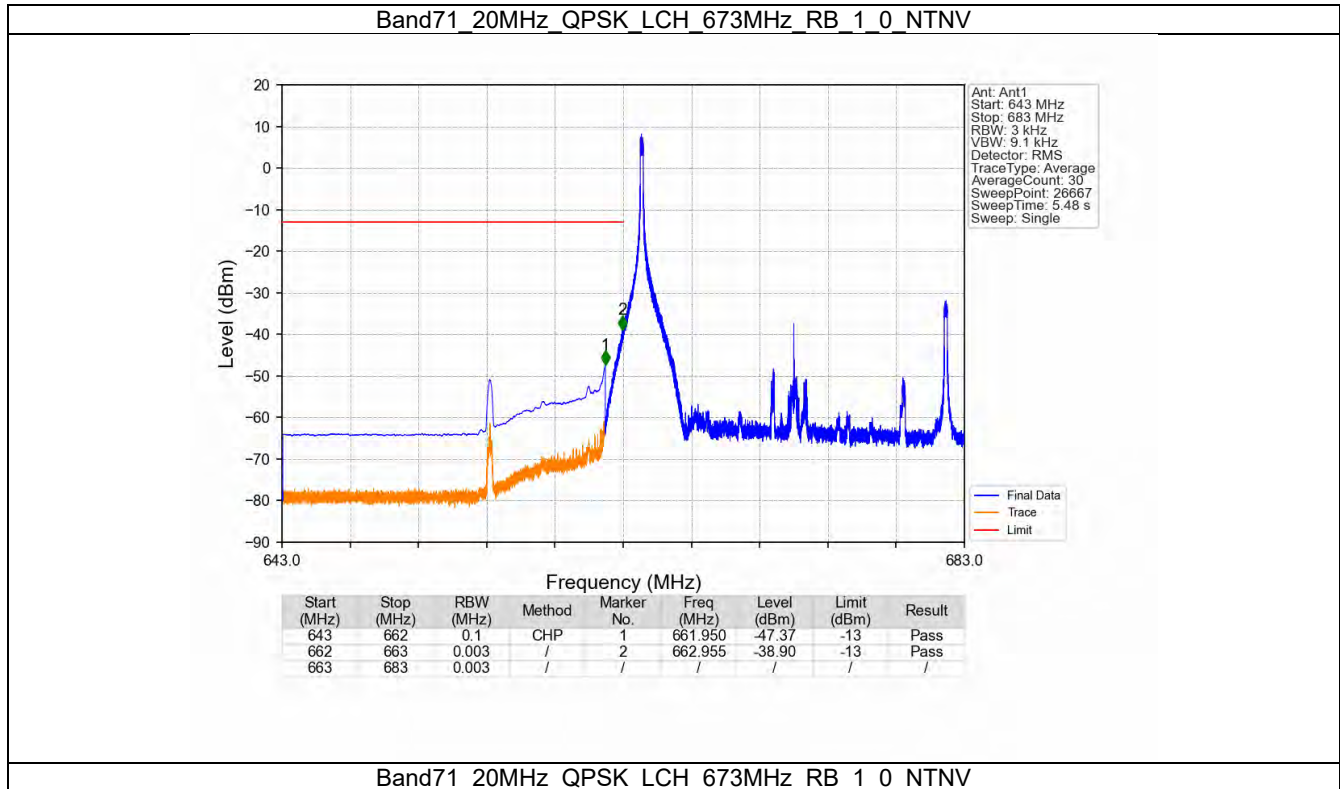
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5.4.2 Test Graph



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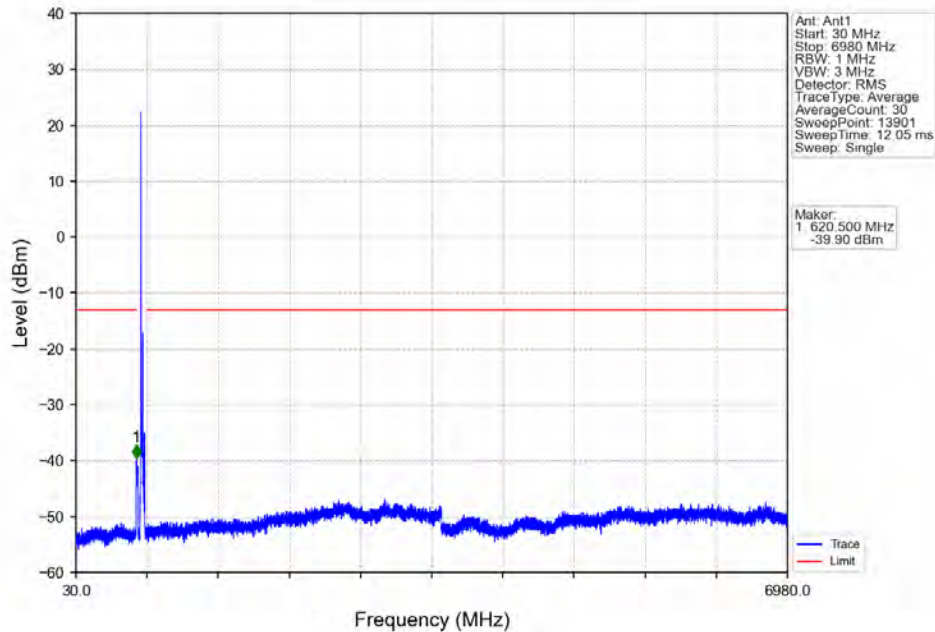
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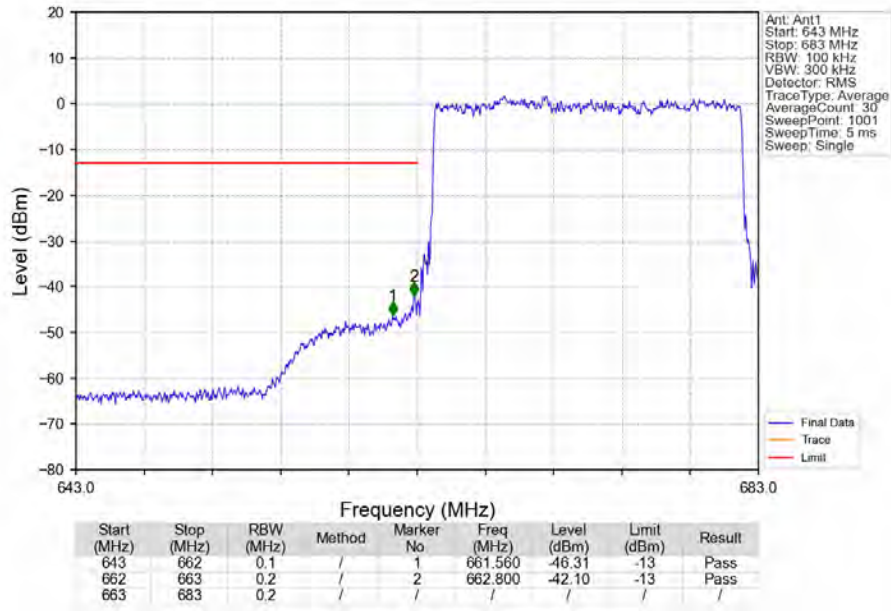
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Band71_20MHz_QPSK_MCH_683MHz_RB_1_0_NTNV



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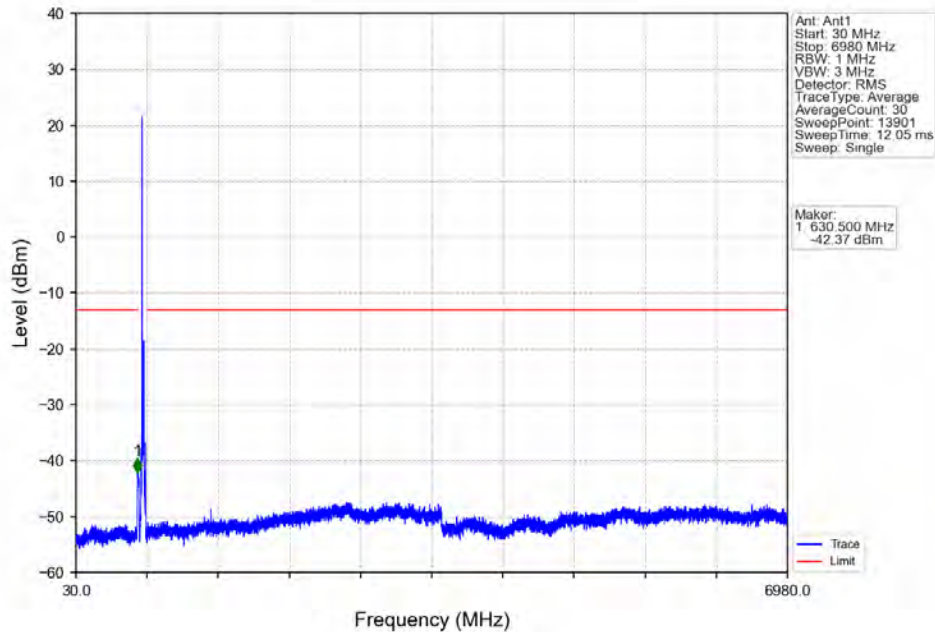
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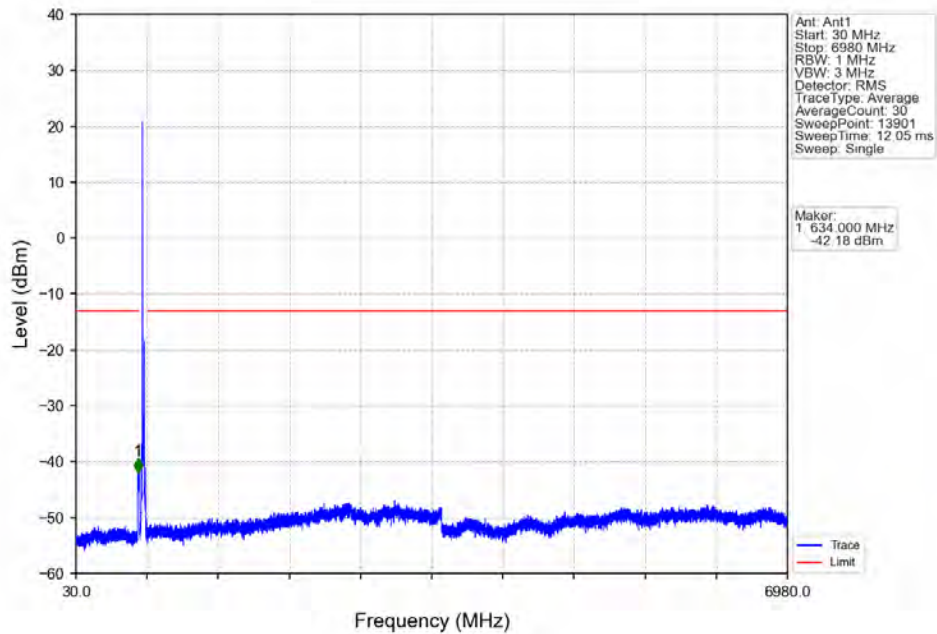
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Band71_20MHz_QPSK_HCH_688MHz_RB_1_99_NTNV



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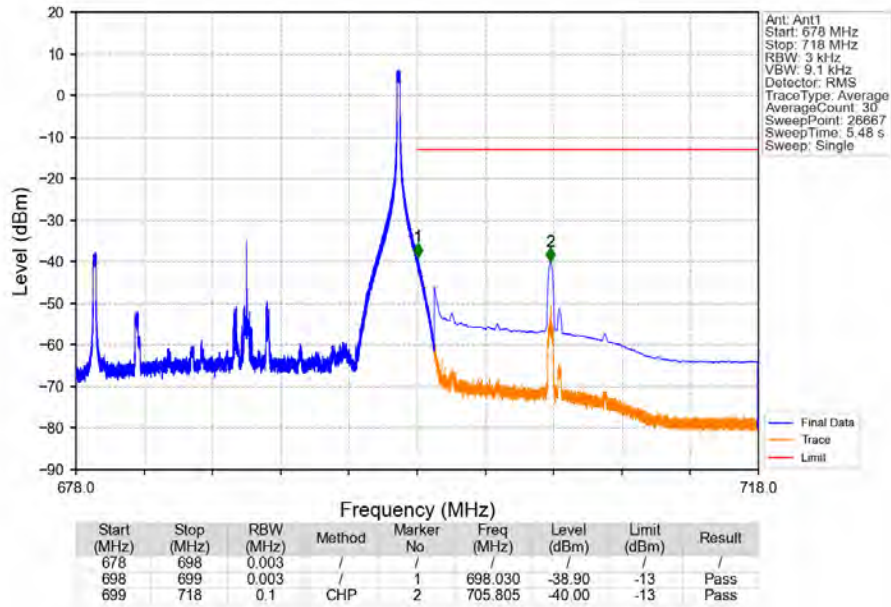
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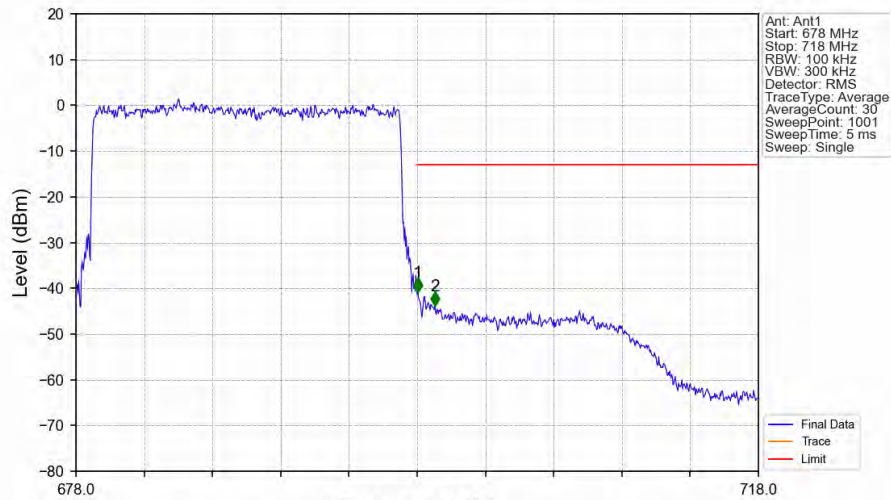
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.202	/	1	698.040	-40.89	-13	Pass
698	718	0.1	/	2	699.040	-43.86	-13	Pass

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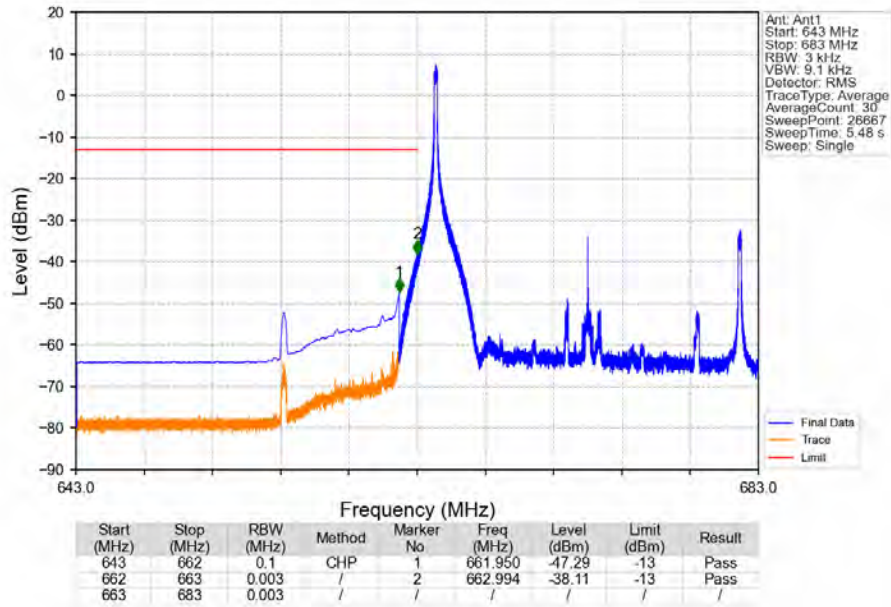
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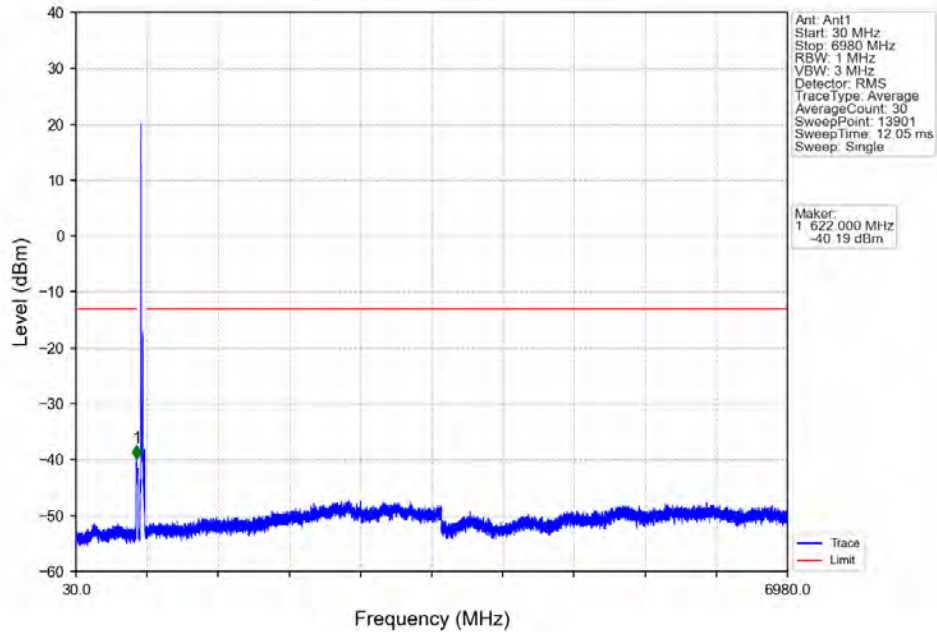
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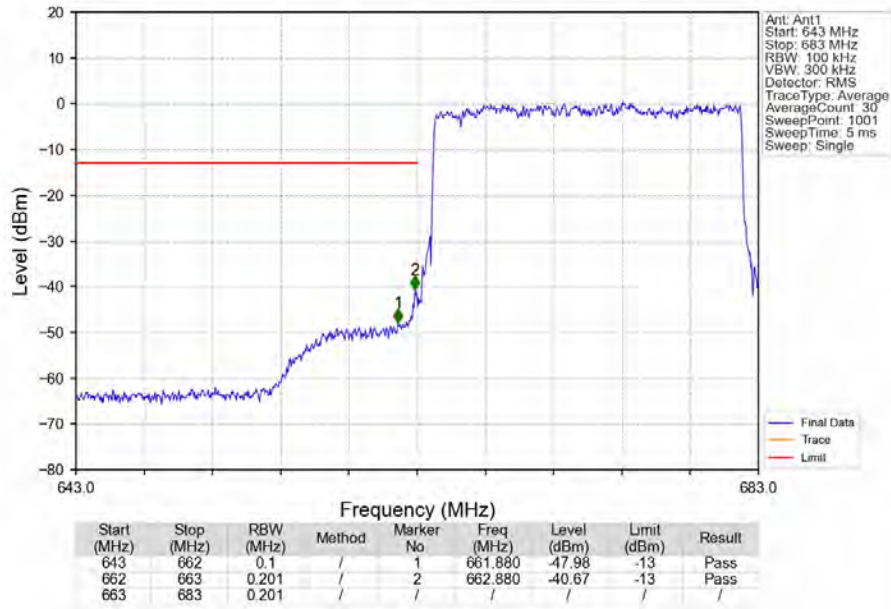
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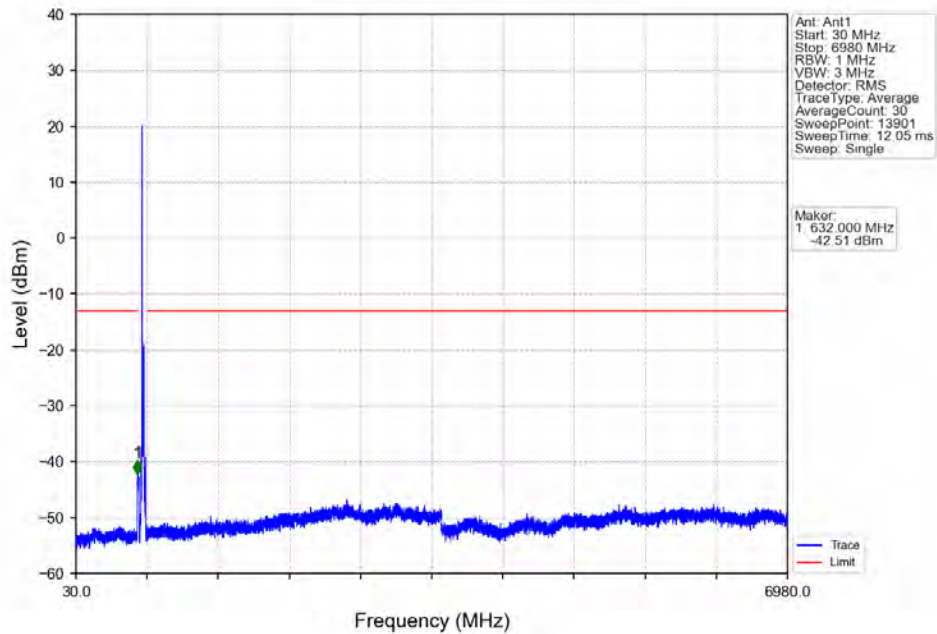
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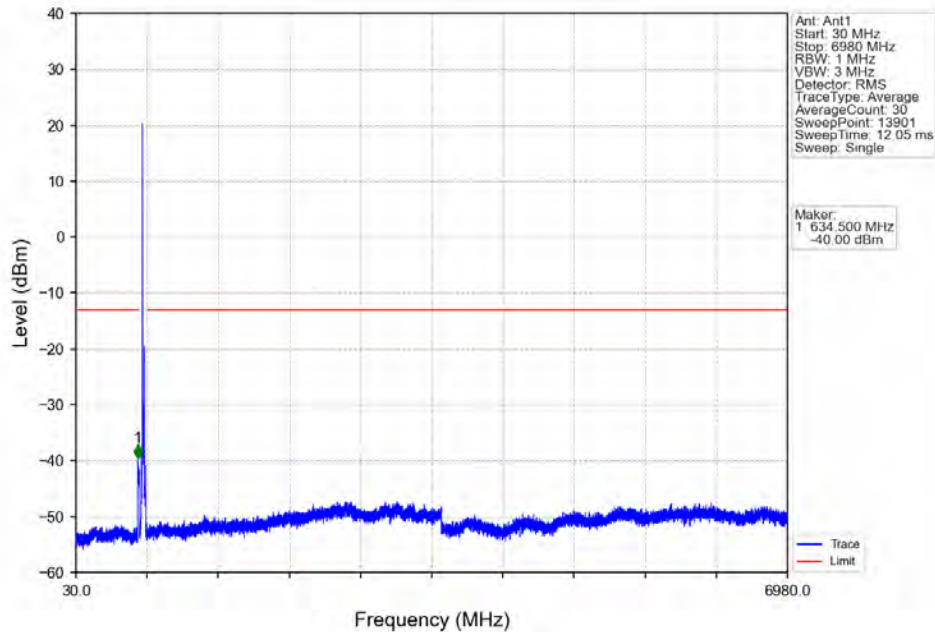
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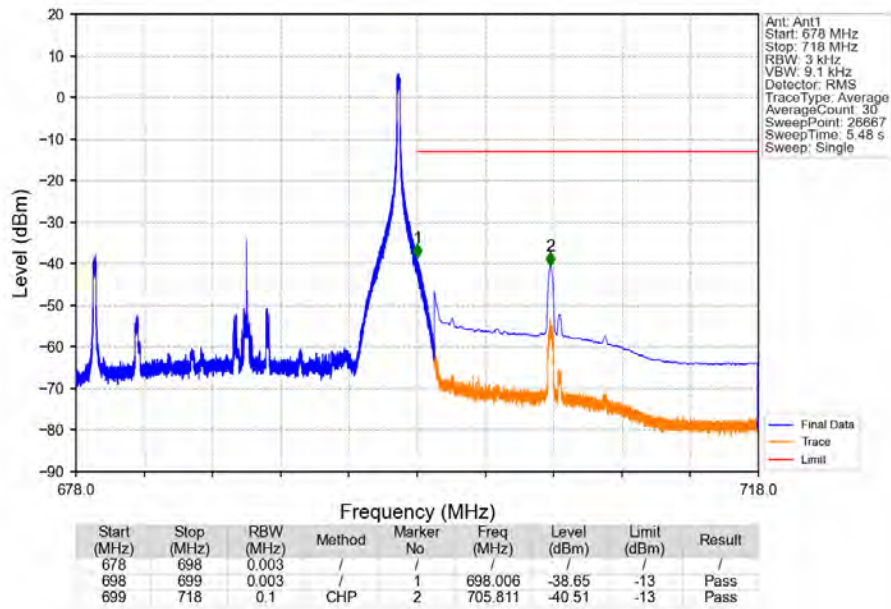
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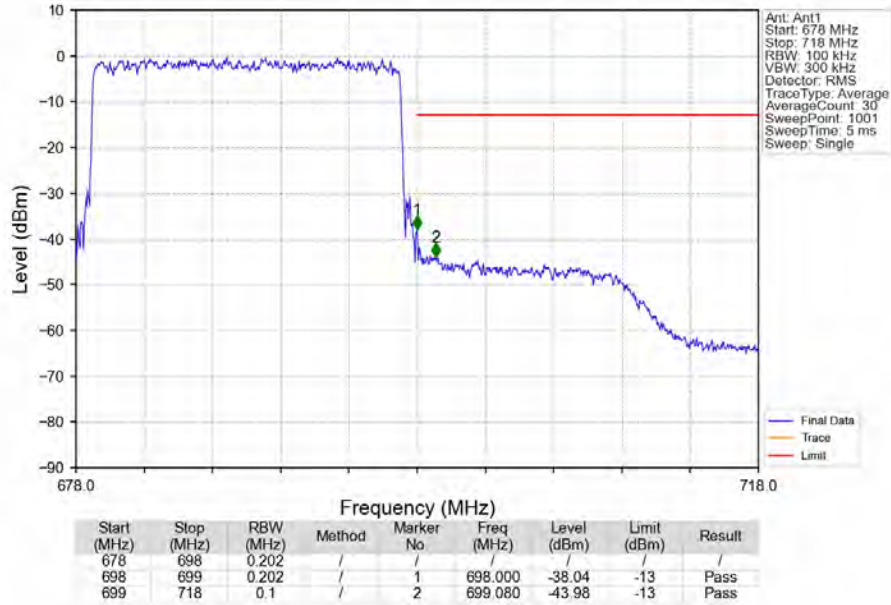
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6. Field Strength of Spurious Radiation

Test Band = LTE_71_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328	64.93	-47.74	24.88	-53.19	-13.00	40.19	Horizontal
2	1992.5	67.91	-46.94	26.35	-47.94	-13.00	34.94	Horizontal
3	3320.5	56.36	-45.69	28.54	-56.05	-13.00	43.05	Horizontal
4	5524.5	51.21	-41.87	32.30	-53.62	-13.00	40.62	Horizontal
5	7165.5	43.60	-38.85	36.46	-54.05	-13.00	41.05	Horizontal
6	9537	42.28	-35.82	37.80	-51.00	-13.00	38.00	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.5	58.47	-47.74	24.89	-59.64	-13.00	46.64	Vertical
2	1992.5	69.06	-46.94	26.35	-46.79	-13.00	33.79	Vertical
3	3320.5	51.58	-45.69	28.54	-60.83	-13.00	47.83	Vertical
4	5524.5	50.67	-41.87	32.30	-54.16	-13.00	41.16	Vertical
5	7380.5	44.19	-38.43	36.62	-52.88	-13.00	39.88	Vertical
6	9554.5	42.34	-35.83	37.80	-50.95	-13.00	37.95	Vertical



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Test Band = LTE_71_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343	63.28	-47.67	25.03	-54.62	-13.00	41.62	Horizontal
2	2014.5	69.03	-46.92	26.44	-46.71	-13.00	33.71	Horizontal
3	2612.5	54.00	-46.17	27.90	-59.53	-13.00	46.53	Horizontal
4	3358	54.26	-45.61	28.60	-58.01	-13.00	45.01	Horizontal
5	5524.5	51.11	-41.87	32.30	-53.72	-13.00	40.72	Horizontal
6	9070	42.48	-35.66	36.70	-51.74	-13.00	38.74	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343	58.28	-47.67	25.03	-59.62	-13.00	46.62	Vertical
2	2014.5	70.79	-46.92	26.44	-44.95	-13.00	31.95	Vertical
3	2518.5	50.74	-46.59	27.80	-63.31	-13.00	50.31	Vertical
4	3357.5	50.91	-45.62	28.60	-61.37	-13.00	48.37	Vertical
5	5524.5	50.93	-41.87	32.30	-53.90	-13.00	40.90	Vertical
6	8441.5	43.20	-36.73	36.42	-52.37	-13.00	39.37	Vertical



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Test Band = LTE_71_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358	63.35	-47.60	25.07	-54.44	-13.00	41.44	Horizontal
2	2037	72.76	-46.91	26.35	-43.06	-13.00	30.06	Horizontal
3	2523	57.48	-46.57	27.80	-56.55	-13.00	43.55	Horizontal
4	2612.5	55.65	-46.17	27.90	-57.88	-13.00	44.88	Horizontal
5	3395.5	53.63	-45.54	28.60	-58.57	-13.00	45.57	Horizontal
6	5524.5	51.42	-41.87	32.30	-53.41	-13.00	40.41	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358	59.04	-47.60	25.07	-58.75	-13.00	45.75	Vertical
2	2037.5	71.76	-46.91	26.35	-44.06	-13.00	31.06	Vertical
3	2518.5	56.52	-46.59	27.80	-57.53	-13.00	44.53	Vertical
4	3395.5	51.60	-45.54	28.60	-60.60	-13.00	47.60	Vertical
5	5524.5	51.11	-41.87	32.30	-53.72	-13.00	40.72	Vertical
6	8480	43.46	-36.45	36.46	-51.79	-13.00	38.79	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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