

**Appendix A.19****1. Effective (Isotropic) Radiated Power Output Data****1.1 Test Result****1.1.1 B71_5MHz_ERP**

Band: 71 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	665.5	1	0	24.62	-1.10	21.37	<=34.77	Pass
			13	24.58	-1.10	21.33	<=34.77	Pass
			24	24.56	-1.10	21.31	<=34.77	Pass
		12	0	23.71	-1.10	20.46	<=34.77	Pass
			6	23.68	-1.10	20.43	<=34.77	Pass
			13	23.49	-1.10	20.24	<=34.77	Pass
		25	0	23.65	-1.10	20.40	<=34.77	Pass
	680.5	1	0	24.18	-1.10	20.93	<=34.77	Pass
			13	24.27	-1.10	21.02	<=34.77	Pass
			24	24.25	-1.10	21.00	<=34.77	Pass
		12	0	23.32	-1.10	20.07	<=34.77	Pass
			6	23.27	-1.10	20.02	<=34.77	Pass
			13	23.42	-1.10	20.17	<=34.77	Pass
		25	0	23.21	-1.10	19.96	<=34.77	Pass
	695.5	1	0	24.39	-1.10	21.14	<=34.77	Pass
			13	24.39	-1.10	21.14	<=34.77	Pass
			24	24.29	-1.10	21.04	<=34.77	Pass
		12	0	23.36	-1.10	20.11	<=34.77	Pass
			6	23.39	-1.10	20.14	<=34.77	Pass
			13	23.35	-1.10	20.10	<=34.77	Pass
		25	0	23.24	-1.10	19.99	<=34.77	Pass
16QAM	665.5	1	0	23.98	-1.10	20.73	<=34.77	Pass
			13	23.91	-1.10	20.66	<=34.77	Pass
			24	23.85	-1.10	20.60	<=34.77	Pass
		12	0	22.64	-1.10	19.39	<=34.77	Pass
			6	22.71	-1.10	19.46	<=34.77	Pass
			13	22.63	-1.10	19.38	<=34.77	Pass
		25	0	22.56	-1.10	19.31	<=34.77	Pass
	680.5	1	0	23.69	-1.10	20.44	<=34.77	Pass
			13	23.70	-1.10	20.45	<=34.77	Pass
			24	23.64	-1.10	20.39	<=34.77	Pass
		12	0	22.09	-1.10	18.84	<=34.77	Pass
			6	22.34	-1.10	19.09	<=34.77	Pass
			13	22.29	-1.10	19.04	<=34.77	Pass
		25	0	22.29	-1.10	19.04	<=34.77	Pass
	695.5	1	0	23.68	-1.10	20.43	<=34.77	Pass
			13	23.71	-1.10	20.46	<=34.77	Pass
			24	23.72	-1.10	20.47	<=34.77	Pass
		12	0	22.41	-1.10	19.16	<=34.77	Pass
			6	22.36	-1.10	19.11	<=34.77	Pass

64QAM	665.5	25	13	22.41	-1.10	19.16	<=34.77	Pass
			0	22.32	-1.10	19.07	<=34.77	Pass
	665.5	1	0	23.82	-1.10	20.57	<=34.77	Pass
			13	23.86	-1.10	20.61	<=34.77	Pass
			24	23.70	-1.10	20.45	<=34.77	Pass
		12	0	22.61	-1.10	19.36	<=34.77	Pass
			6	22.69	-1.10	19.44	<=34.77	Pass
			13	22.56	-1.10	19.31	<=34.77	Pass
		25	0	22.56	-1.10	19.31	<=34.77	Pass
	680.5	1	0	23.66	-1.10	20.41	<=34.77	Pass
			13	23.49	-1.10	20.24	<=34.77	Pass
			24	23.45	-1.10	20.20	<=34.77	Pass
		12	0	22.38	-1.10	19.13	<=34.77	Pass
			6	22.31	-1.10	19.06	<=34.77	Pass
			13	22.35	-1.10	19.10	<=34.77	Pass
		25	0	22.34	-1.10	19.09	<=34.77	Pass
	695.5	1	0	23.64	-1.10	20.39	<=34.77	Pass
			13	23.74	-1.10	20.49	<=34.77	Pass
			24	23.47	-1.10	20.22	<=34.77	Pass
		12	0	22.39	-1.10	19.14	<=34.77	Pass
			6	22.33	-1.10	19.08	<=34.77	Pass
			13	22.30	-1.10	19.05	<=34.77	Pass
		25	0	22.22	-1.10	18.97	<=34.77	Pass
256QAM	665.5	1	0	19.64	-1.10	16.39	<=34.77	Pass
			13	19.93	-1.10	16.68	<=34.77	Pass
			24	19.75	-1.10	16.50	<=34.77	Pass
		12	0	19.75	-1.10	16.50	<=34.77	Pass
			6	19.68	-1.10	16.43	<=34.77	Pass
			13	19.68	-1.10	16.43	<=34.77	Pass
		25	0	19.66	-1.10	16.41	<=34.77	Pass
	680.5	1	0	19.65	-1.10	16.40	<=34.77	Pass
			13	19.53	-1.10	16.28	<=34.77	Pass
			24	19.17	-1.10	15.92	<=34.77	Pass
		12	0	19.33	-1.10	16.08	<=34.77	Pass
			6	19.38	-1.10	16.13	<=34.77	Pass
			13	19.43	-1.10	16.18	<=34.77	Pass
		25	0	19.35	-1.10	16.10	<=34.77	Pass
	695.5	1	0	19.46	-1.10	16.21	<=34.77	Pass
			13	19.35	-1.10	16.10	<=34.77	Pass
			24	19.70	-1.10	16.45	<=34.77	Pass
		12	0	19.23	-1.10	15.98	<=34.77	Pass
			6	19.40	-1.10	16.15	<=34.77	Pass
			13	19.42	-1.10	16.17	<=34.77	Pass
		25	0	19.37	-1.10	16.12	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B71_10MHz_ERP

Band: 71 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	

QPSK	668	1	0	24.54	-1.10	21.29	<=34.77	Pass
			25	24.37	-1.10	21.12	<=34.77	Pass
			49	24.37	-1.10	21.12	<=34.77	Pass
		25	0	23.63	-1.10	20.38	<=34.77	Pass
			13	23.58	-1.10	20.33	<=34.77	Pass
			25	23.45	-1.10	20.20	<=34.77	Pass
		50	0	23.58	-1.10	20.33	<=34.77	Pass
	680.5	1	0	24.27	-1.10	21.02	<=34.77	Pass
			25	24.33	-1.10	21.08	<=34.77	Pass
			49	24.36	-1.10	21.11	<=34.77	Pass
		25	0	23.32	-1.10	20.07	<=34.77	Pass
			13	23.26	-1.10	20.01	<=34.77	Pass
			25	23.35	-1.10	20.10	<=34.77	Pass
		50	0	23.27	-1.10	20.02	<=34.77	Pass
	693	1	0	24.30	-1.10	21.05	<=34.77	Pass
			25	24.30	-1.10	21.05	<=34.77	Pass
			49	24.31	-1.10	21.06	<=34.77	Pass
		25	0	23.41	-1.10	20.16	<=34.77	Pass
			13	23.40	-1.10	20.15	<=34.77	Pass
			25	23.40	-1.10	20.15	<=34.77	Pass
		50	0	23.31	-1.10	20.06	<=34.77	Pass
16QAM	668	1	0	24.11	-1.10	20.86	<=34.77	Pass
			25	23.86	-1.10	20.61	<=34.77	Pass
			49	23.69	-1.10	20.44	<=34.77	Pass
		25	0	22.50	-1.10	19.25	<=34.77	Pass
			13	22.61	-1.10	19.36	<=34.77	Pass
			25	22.50	-1.10	19.25	<=34.77	Pass
		50	0	22.51	-1.10	19.26	<=34.77	Pass
	680.5	1	0	23.80	-1.10	20.55	<=34.77	Pass
			25	23.60	-1.10	20.35	<=34.77	Pass
			49	23.66	-1.10	20.41	<=34.77	Pass
		25	0	22.41	-1.10	19.16	<=34.77	Pass
			13	22.35	-1.10	19.10	<=34.77	Pass
			25	22.46	-1.10	19.21	<=34.77	Pass
		50	0	22.17	-1.10	18.92	<=34.77	Pass
	693	1	0	23.86	-1.10	20.61	<=34.77	Pass
			25	23.84	-1.10	20.59	<=34.77	Pass
			49	23.86	-1.10	20.61	<=34.77	Pass
		25	0	22.33	-1.10	19.08	<=34.77	Pass
			13	22.44	-1.10	19.19	<=34.77	Pass
			25	22.47	-1.10	19.22	<=34.77	Pass
		50	0	22.37	-1.10	19.12	<=34.77	Pass
64QAM	668	1	0	23.94	-1.10	20.69	<=34.77	Pass
			25	23.69	-1.10	20.44	<=34.77	Pass
			49	23.44	-1.10	20.19	<=34.77	Pass
		25	0	22.53	-1.10	19.28	<=34.77	Pass
			13	22.48	-1.10	19.23	<=34.77	Pass
			25	22.47	-1.10	19.22	<=34.77	Pass
		50	0	22.58	-1.10	19.33	<=34.77	Pass
	680.5	1	0	23.67	-1.10	20.42	<=34.77	Pass
			25	23.60	-1.10	20.35	<=34.77	Pass
			49	23.55	-1.10	20.30	<=34.77	Pass
		25	0	22.39	-1.10	19.14	<=34.77	Pass



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		50	13	22.24	-1.10	18.99	<=34.77	Pass
			25	22.37	-1.10	19.12	<=34.77	Pass
			0	22.38	-1.10	19.13	<=34.77	Pass
	693	1	0	23.63	-1.10	20.38	<=34.77	Pass
			25	23.59	-1.10	20.34	<=34.77	Pass
			49	23.57	-1.10	20.32	<=34.77	Pass
		25	0	22.42	-1.10	19.17	<=34.77	Pass
			13	22.44	-1.10	19.19	<=34.77	Pass
			25	22.41	-1.10	19.16	<=34.77	Pass
		50	0	22.36	-1.10	19.11	<=34.77	Pass
256QAM	668	1	0	19.73	-1.10	16.48	<=34.77	Pass
			25	19.63	-1.10	16.38	<=34.77	Pass
			49	19.52	-1.10	16.27	<=34.77	Pass
		25	0	19.60	-1.10	16.35	<=34.77	Pass
			13	19.58	-1.10	16.33	<=34.77	Pass
			25	19.51	-1.10	16.26	<=34.77	Pass
		50	0	19.57	-1.10	16.32	<=34.77	Pass
	680.5	1	0	19.49	-1.10	16.24	<=34.77	Pass
			25	19.49	-1.10	16.24	<=34.77	Pass
			49	19.43	-1.10	16.18	<=34.77	Pass
		25	0	19.30	-1.10	16.05	<=34.77	Pass
			13	19.42	-1.10	16.17	<=34.77	Pass
			25	19.42	-1.10	16.17	<=34.77	Pass
		50	0	19.33	-1.10	16.08	<=34.77	Pass
	693	1	0	19.34	-1.10	16.09	<=34.77	Pass
			25	19.41	-1.10	16.16	<=34.77	Pass
			49	19.52	-1.10	16.27	<=34.77	Pass
		25	0	19.32	-1.10	16.07	<=34.77	Pass
			13	19.41	-1.10	16.16	<=34.77	Pass
			25	19.46	-1.10	16.21	<=34.77	Pass
		50	0	19.29	-1.10	16.04	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B71_15MHz_ERP

Band: 71 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	670.5	1	0	24.47	-1.10	21.22	<=34.77	Pass
			38	24.27	-1.10	21.02	<=34.77	Pass
			74	24.21	-1.10	20.96	<=34.77	Pass
		36	0	23.31	-1.10	20.06	<=34.77	Pass
			18	23.43	-1.10	20.18	<=34.77	Pass
			39	23.33	-1.10	20.08	<=34.77	Pass
		75	0	23.41	-1.10	20.16	<=34.77	Pass
	680.5	1	0	24.39	-1.10	21.14	<=34.77	Pass
			38	24.26	-1.10	21.01	<=34.77	Pass
			74	25.06	-1.10	21.81	<=34.77	Pass
		36	0	23.28	-1.10	20.03	<=34.77	Pass
			18	23.18	-1.10	19.93	<=34.77	Pass
			39	23.20	-1.10	19.95	<=34.77	Pass

		75	0	23.20	-1.10	19.95	<=34.77	Pass		
	690.5	1	0	24.34	-1.10	21.09	<=34.77	Pass		
			38	24.17	-1.10	20.92	<=34.77	Pass		
			74	24.15	-1.10	20.90	<=34.77	Pass		
			0	23.23	-1.10	19.98	<=34.77	Pass		
		36	18	23.40	-1.10	20.15	<=34.77	Pass		
			39	23.32	-1.10	20.07	<=34.77	Pass		
			75	0	23.37	-1.10	20.12	<=34.77	Pass	
16QAM		670.5	1	0	23.75	-1.10	20.50	<=34.77	Pass	
	38			23.62	-1.10	20.37	<=34.77	Pass		
	74			23.55	-1.10	20.30	<=34.77	Pass		
	36		0	22.36	-1.10	19.11	<=34.77	Pass		
			18	22.48	-1.10	19.23	<=34.77	Pass		
			39	22.15	-1.10	18.90	<=34.77	Pass		
	75		0	22.43	-1.10	19.18	<=34.77	Pass		
	680.5		1	0	23.51	-1.10	20.26	<=34.77	Pass	
				38	23.48	-1.10	20.23	<=34.77	Pass	
				74	23.45	-1.10	20.20	<=34.77	Pass	
			36	0	22.28	-1.10	19.03	<=34.77	Pass	
				18	22.22	-1.10	18.97	<=34.77	Pass	
		39		22.20	-1.10	18.95	<=34.77	Pass		
		75	0	22.26	-1.10	19.01	<=34.77	Pass		
	690.5	1	0	23.57	-1.10	20.32	<=34.77	Pass		
			38	23.60	-1.10	20.35	<=34.77	Pass		
			74	23.45	-1.10	20.20	<=34.77	Pass		
		36	0	22.29	-1.10	19.04	<=34.77	Pass		
			18	22.40	-1.10	19.15	<=34.77	Pass		
			39	22.39	-1.10	19.14	<=34.77	Pass		
	75	0	22.33	-1.10	19.08	<=34.77	Pass			
	64QAM	670.5	1	0	23.67	-1.10	20.42	<=34.77	Pass	
				38	23.41	-1.10	20.16	<=34.77	Pass	
				74	23.39	-1.10	20.14	<=34.77	Pass	
			36	0	22.33	-1.10	19.08	<=34.77	Pass	
				18	22.39	-1.10	19.14	<=34.77	Pass	
				39	22.35	-1.10	19.10	<=34.77	Pass	
			75	0	22.47	-1.10	19.22	<=34.77	Pass	
			680.5	1	0	23.44	-1.10	20.19	<=34.77	Pass
					38	23.45	-1.10	20.20	<=34.77	Pass
		74			23.30	-1.10	20.05	<=34.77	Pass	
		36		0	22.25	-1.10	19.00	<=34.77	Pass	
18				22.13	-1.10	18.88	<=34.77	Pass		
39				22.18	-1.10	18.93	<=34.77	Pass		
75		0	22.23	-1.10	18.98	<=34.77	Pass			
690.5		1	0	23.36	-1.10	20.11	<=34.77	Pass		
			38	23.45	-1.10	20.20	<=34.77	Pass		
			74	23.35	-1.10	20.10	<=34.77	Pass		
			0	22.30	-1.10	19.05	<=34.77	Pass		
			18	22.32	-1.10	19.07	<=34.77	Pass		
			39	22.37	-1.10	19.12	<=34.77	Pass		
		75	0	22.32	-1.10	19.07	<=34.77	Pass		
		256QAM	670.5	1	0	19.57	-1.10	16.32	<=34.77	Pass
					38	19.50	-1.10	16.25	<=34.77	Pass
					74	19.49	-1.10	16.24	<=34.77	Pass



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		36	0	19.48	-1.10	16.23	<=34.77	Pass
			18	19.40	-1.10	16.15	<=34.77	Pass
			39	19.35	-1.10	16.10	<=34.77	Pass
		75	0	19.42	-1.10	16.17	<=34.77	Pass
	680.5	1	0	19.31	-1.10	16.06	<=34.77	Pass
			38	19.37	-1.10	16.12	<=34.77	Pass
			74	19.35	-1.10	16.10	<=34.77	Pass
		36	0	19.42	-1.10	16.17	<=34.77	Pass
			18	19.24	-1.10	15.99	<=34.77	Pass
			39	19.20	-1.10	15.95	<=34.77	Pass
		75	0	19.22	-1.10	15.97	<=34.77	Pass
	690.5	1	0	19.34	-1.10	16.09	<=34.77	Pass
			38	19.36	-1.10	16.11	<=34.77	Pass
			74	19.43	-1.10	16.18	<=34.77	Pass
		36	0	19.25	-1.10	16.00	<=34.77	Pass
			18	19.42	-1.10	16.17	<=34.77	Pass
			39	19.40	-1.10	16.15	<=34.77	Pass
		75	0	19.43	-1.10	16.18	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B71_20MHz_ERP

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	24.66	-1.10	21.41	<=34.77	Pass
			50	24.31	-1.10	21.06	<=34.77	Pass
			99	24.12	-1.10	20.87	<=34.77	Pass
		50	0	23.37	-1.10	20.12	<=34.77	Pass
			25	23.42	-1.10	20.17	<=34.77	Pass
			50	23.18	-1.10	19.93	<=34.77	Pass
		100	0	23.42	-1.10	20.17	<=34.77	Pass
	683	1	0	24.29	-1.10	21.04	<=34.77	Pass
			50	24.21	-1.10	20.96	<=34.77	Pass
			99	24.18	-1.10	20.93	<=34.77	Pass
		50	0	23.23	-1.10	19.98	<=34.77	Pass
			25	23.27	-1.10	20.02	<=34.77	Pass
			50	23.22	-1.10	19.97	<=34.77	Pass
		100	0	23.34	-1.10	20.09	<=34.77	Pass
	688	1	0	24.21	-1.10	20.96	<=34.77	Pass
			50	24.18	-1.10	20.93	<=34.77	Pass
			99	24.14	-1.10	20.89	<=34.77	Pass
		50	0	23.30	-1.10	20.05	<=34.77	Pass
			25	23.20	-1.10	19.95	<=34.77	Pass
			50	23.27	-1.10	20.02	<=34.77	Pass
		100	0	23.30	-1.10	20.05	<=34.77	Pass
16QAM	673	1	0	23.76	-1.10	20.51	<=34.77	Pass
			50	23.56	-1.10	20.31	<=34.77	Pass
			99	23.40	-1.10	20.15	<=34.77	Pass
		50	0	22.34	-1.10	19.09	<=34.77	Pass
			25	22.40	-1.10	19.15	<=34.77	Pass



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	683	100		50	22.21	-1.10	18.96	<=34.77	Pass	
				0	22.28	-1.10	19.03	<=34.77	Pass	
		1		0	23.59	-1.10	20.34	<=34.77	Pass	
				50	23.48	-1.10	20.23	<=34.77	Pass	
				99	23.61	-1.10	20.36	<=34.77	Pass	
			50		0	22.29	-1.10	19.04	<=34.77	Pass
					25	22.27	-1.10	19.02	<=34.77	Pass
				50	22.30	-1.10	19.05	<=34.77	Pass	
	100		0	22.22	-1.10	18.97	<=34.77	Pass		
	688	1		0	23.62	-1.10	20.37	<=34.77	Pass	
				50	23.52	-1.10	20.27	<=34.77	Pass	
				99	23.55	-1.10	20.30	<=34.77	Pass	
		50		0	22.27	-1.10	19.02	<=34.77	Pass	
				25	22.35	-1.10	19.10	<=34.77	Pass	
				50	22.24	-1.10	18.99	<=34.77	Pass	
100			0	22.15	-1.10	18.90	<=34.77	Pass		
64QAM	673	1		0	23.69	-1.10	20.44	<=34.77	Pass	
				50	23.33	-1.10	20.08	<=34.77	Pass	
				99	23.37	-1.10	20.12	<=34.77	Pass	
		50		0	22.42	-1.10	19.17	<=34.77	Pass	
				25	22.28	-1.10	19.03	<=34.77	Pass	
				50	22.33	-1.10	19.08	<=34.77	Pass	
	100		0	22.37	-1.10	19.12	<=34.77	Pass		
	683	1		0	23.43	-1.10	20.18	<=34.77	Pass	
				50	23.28	-1.10	20.03	<=34.77	Pass	
				99	23.44	-1.10	20.19	<=34.77	Pass	
		50		0	22.23	-1.10	18.98	<=34.77	Pass	
				25	22.24	-1.10	18.99	<=34.77	Pass	
				50	22.18	-1.10	18.93	<=34.77	Pass	
	100		0	22.24	-1.10	18.99	<=34.77	Pass		
	688	1		0	23.52	-1.10	20.27	<=34.77	Pass	
			50	23.43	-1.10	20.18	<=34.77	Pass		
			99	23.42	-1.10	20.17	<=34.77	Pass		
50			0	22.22	-1.10	18.97	<=34.77	Pass		
			25	22.23	-1.10	18.98	<=34.77	Pass		
			50	22.20	-1.10	18.95	<=34.77	Pass		
100		0	22.24	-1.10	18.99	<=34.77	Pass			
256QAM	673	1		0	19.50	-1.10	16.25	<=34.77	Pass	
				50	19.32	-1.10	16.07	<=34.77	Pass	
				99	19.34	-1.10	16.09	<=34.77	Pass	
		50		0	19.46	-1.10	16.21	<=34.77	Pass	
				25	19.35	-1.10	16.10	<=34.77	Pass	
				50	19.31	-1.10	16.06	<=34.77	Pass	
	100		0	19.40	-1.10	16.15	<=34.77	Pass		
	683	1		0	19.32	-1.10	16.07	<=34.77	Pass	
				50	19.41	-1.10	16.16	<=34.77	Pass	
				99	19.44	-1.10	16.19	<=34.77	Pass	
		50		0	19.28	-1.10	16.03	<=34.77	Pass	
				25	19.26	-1.10	16.01	<=34.77	Pass	
				50	19.40	-1.10	16.15	<=34.77	Pass	
	100		0	19.23	-1.10	15.98	<=34.77	Pass		
	688	1		0	19.36	-1.10	16.11	<=34.77	Pass	
			50	19.34	-1.10	16.09	<=34.77	Pass		



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			99	19.55	-1.10	16.30	<=34.77	Pass
		50	0	19.28	-1.10	16.03	<=34.77	Pass
			25	19.16	-1.10	15.91	<=34.77	Pass
			50	19.35	-1.10	16.10	<=34.77	Pass
		100	0	19.38	-1.10	16.13	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B71_10MHz

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	680.5	50	0	20	3.27	-2.100	-0.0031	-2.5 to 2.5	Pass
					3.85	0.700	0.0010	-2.5 to 2.5	Pass
					4.43	-0.200	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.800	0.0012	-2.5 to 2.5	Pass
				-20	3.85	1.900	0.0028	-2.5 to 2.5	Pass
				-10	3.85	2.100	0.0031	-2.5 to 2.5	Pass
				0	3.85	2.500	0.0037	-2.5 to 2.5	Pass
				10	3.85	2.100	0.0031	-2.5 to 2.5	Pass
				30	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				50	3.85	1.500	0.0022	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band71_OBW

Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	680.5	25	0	4.494	/	Pass
	16QAM	680.5	25	0	4.503	/	Pass
	64QAM	680.5	25	0	4.495	/	Pass
	256QAM	680.5	25	0	4.486	/	Pass
10	QPSK	680.5	50	0	8.927	/	Pass
	16QAM	680.5	50	0	8.915	/	Pass
	64QAM	680.5	50	0	8.941	/	Pass
	256QAM	680.5	50	0	8.944	/	Pass
15	QPSK	680.5	75	0	13.388	/	Pass
	16QAM	680.5	75	0	13.383	/	Pass



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20	64QAM	680.5	75	0	13.395	/	Pass
	256QAM	680.5	75	0	13.357	/	Pass
	QPSK	683	100	0	17.825	/	Pass
	16QAM	683	100	0	17.883	/	Pass
	64QAM	683	100	0	17.813	/	Pass
	256QAM	683	100	0	17.829	/	Pass

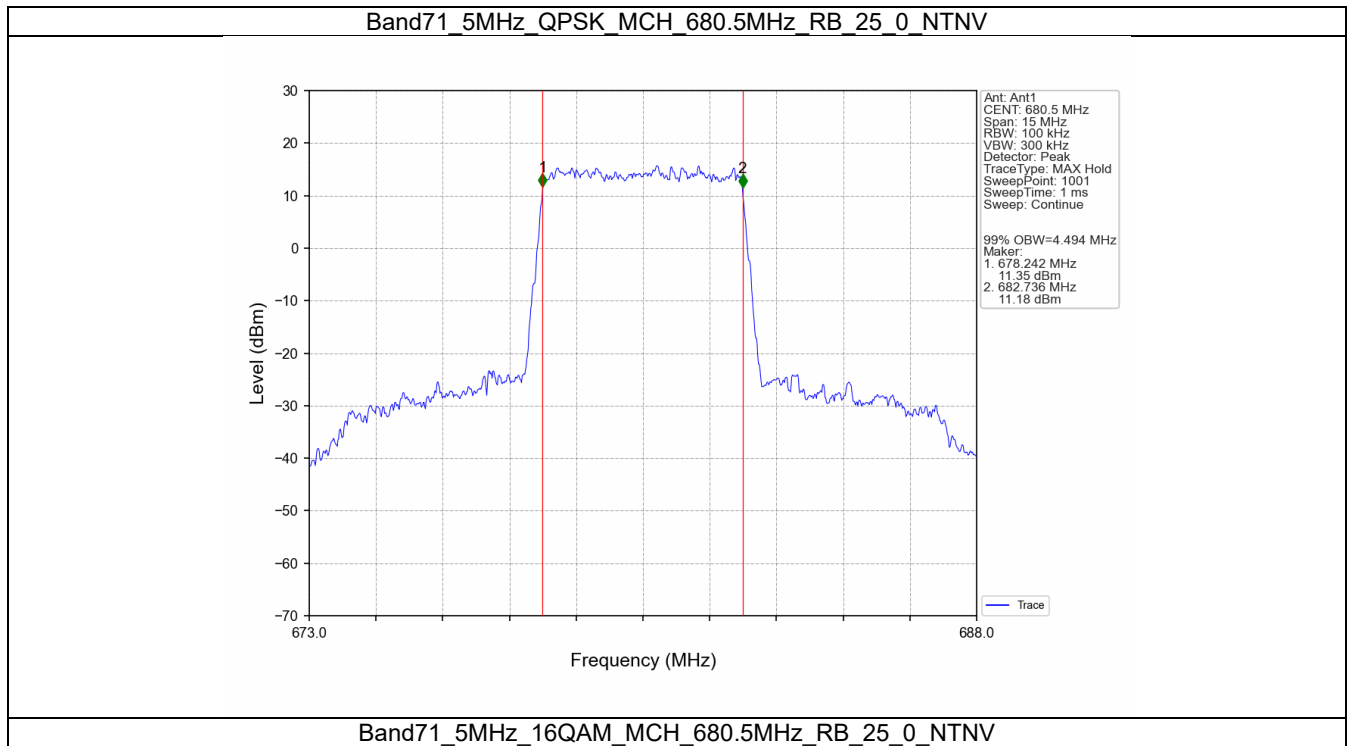
3.1.2 Band71_XDB

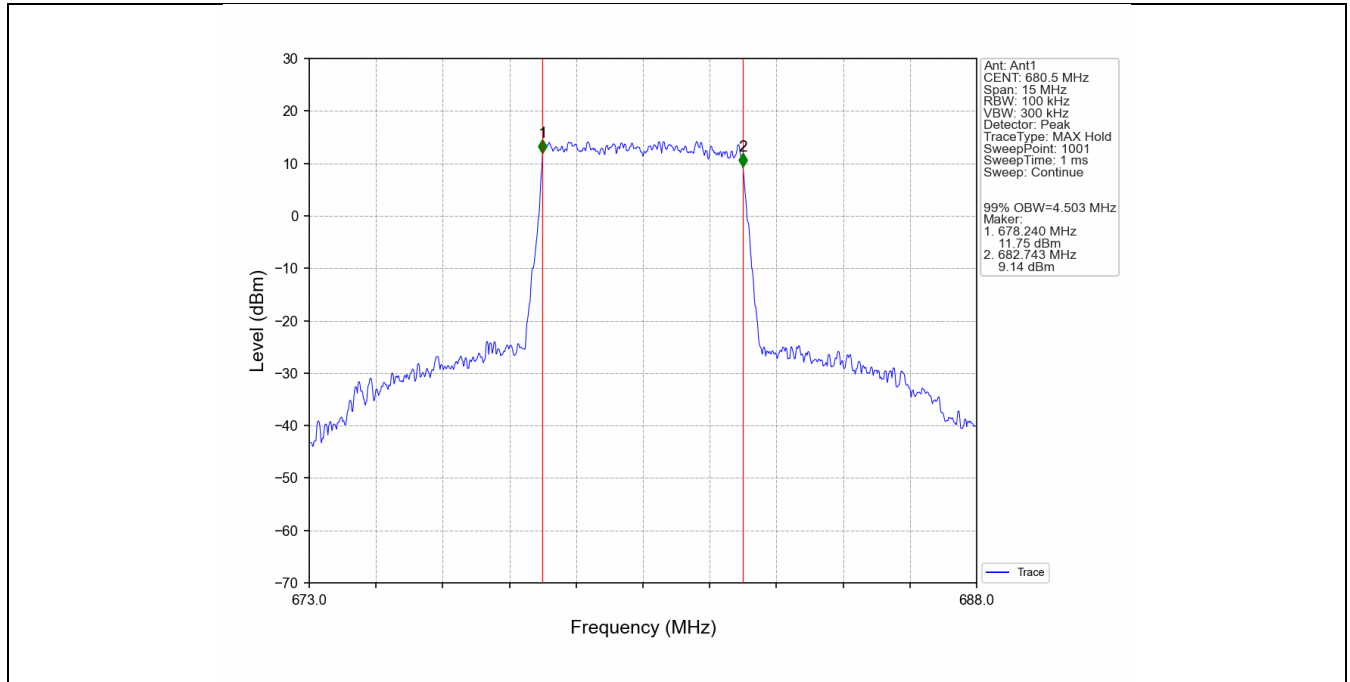
Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	680.5	25	0	4.970	/	Pass
	16QAM	680.5	25	0	4.986	/	Pass
	64QAM	680.5	25	0	4.927	/	Pass
	256QAM	680.5	25	0	4.905	/	Pass
10	QPSK	680.5	50	0	9.588	/	Pass
	16QAM	680.5	50	0	9.505	/	Pass
	64QAM	680.5	50	0	9.588	/	Pass
	256QAM	680.5	50	0	9.582	/	Pass
15	QPSK	680.5	75	0	14.474	/	Pass
	16QAM	680.5	75	0	14.435	/	Pass
	64QAM	680.5	75	0	14.506	/	Pass
	256QAM	680.5	75	0	14.505	/	Pass
20	QPSK	683	100	0	19.069	/	Pass
	16QAM	683	100	0	19.193	/	Pass
	64QAM	683	100	0	18.968	/	Pass
	256QAM	683	100	0	19.019	/	Pass



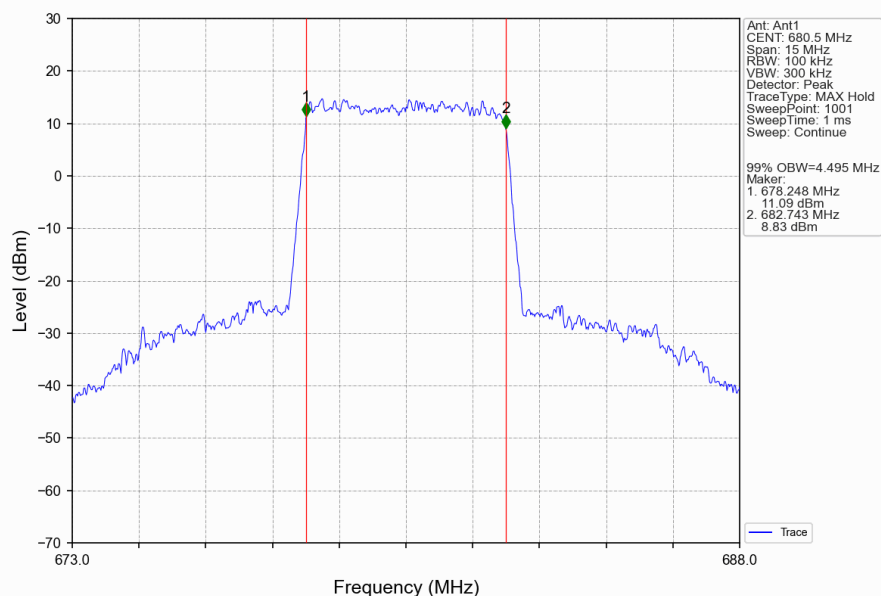
3.2 Test Graph

3.2.1 Band71_OBW

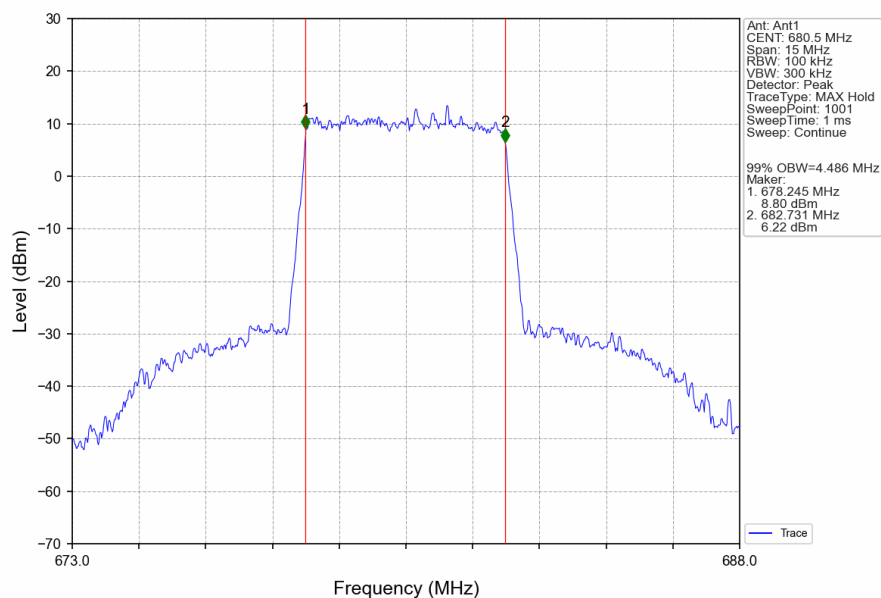




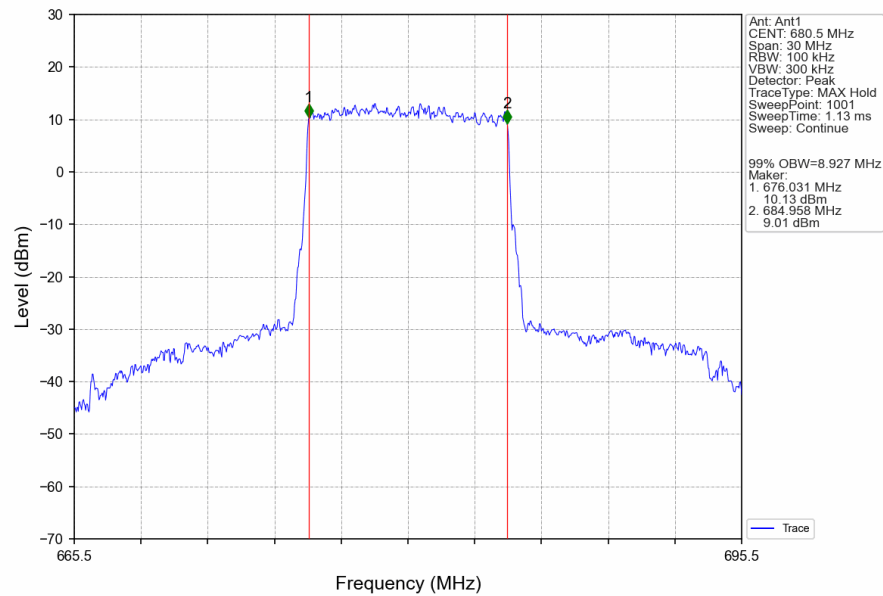
Band71_5MHz_64QAM_MCH_680.5MHz_RB_25_0_NTNV



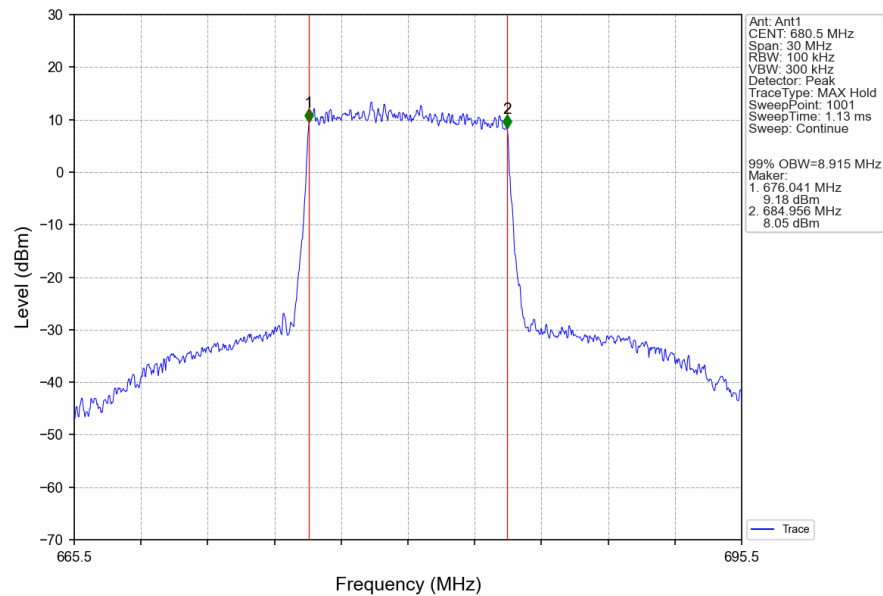
Band71_5MHz_256QAM_MCH_680.5MHz_RB_25_0_NTNV



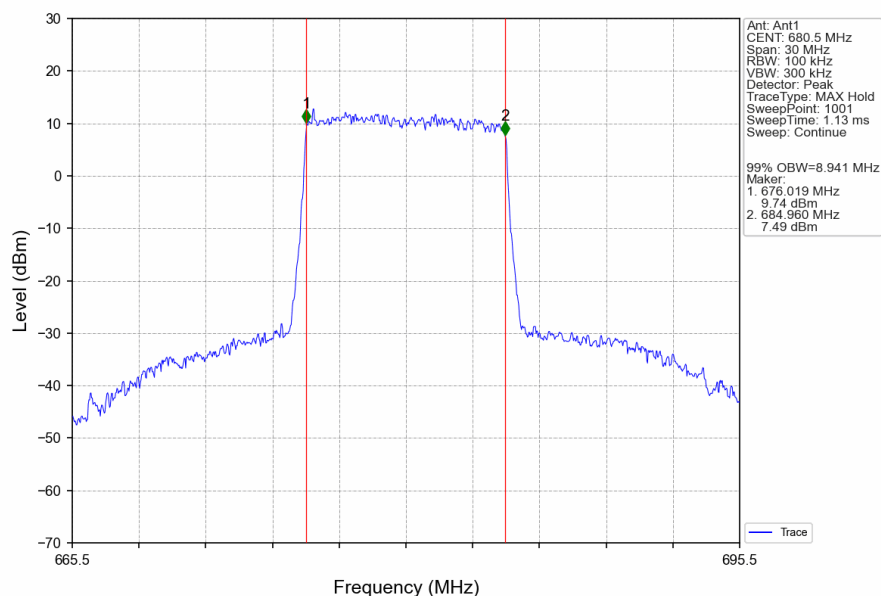
Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



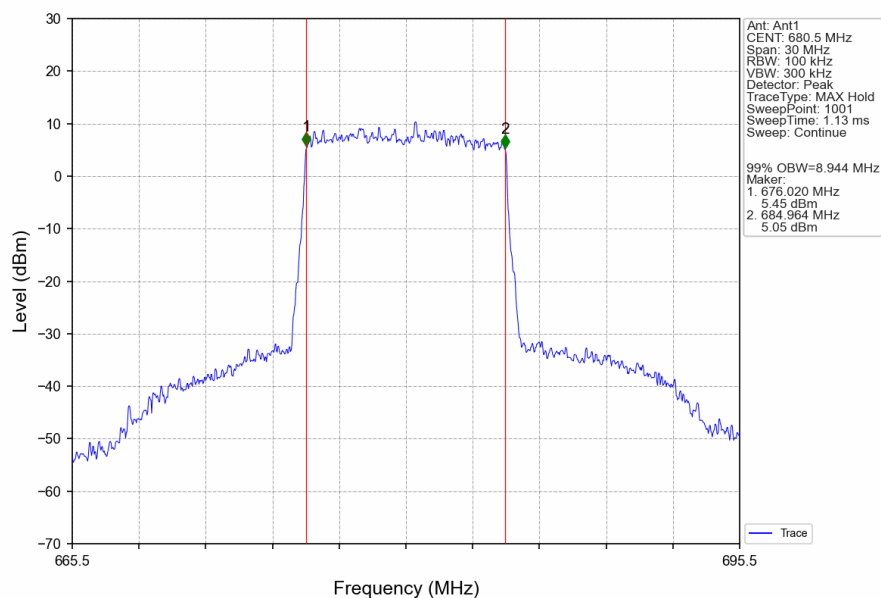
Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



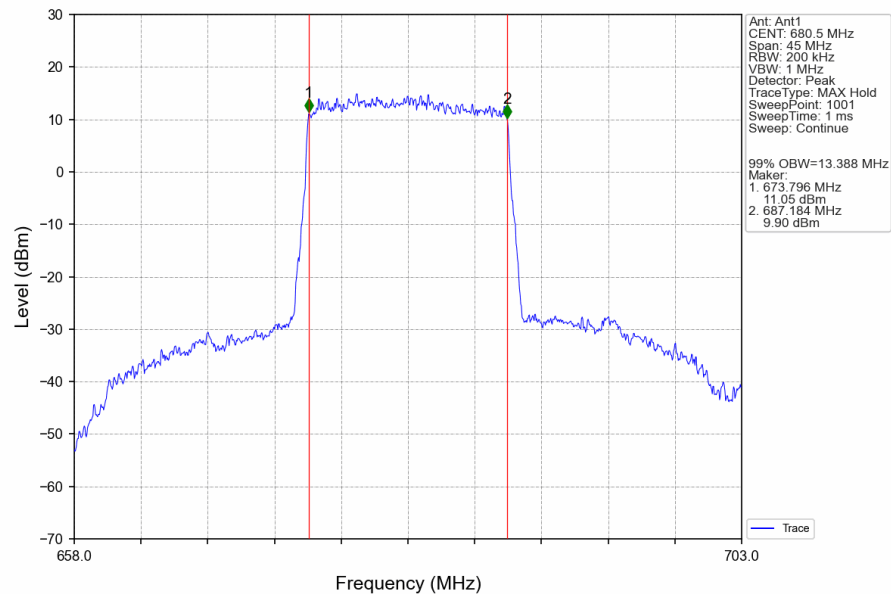
Band71_10MHz_64QAM_MCH_680.5MHz_RB_50_0_NTNV



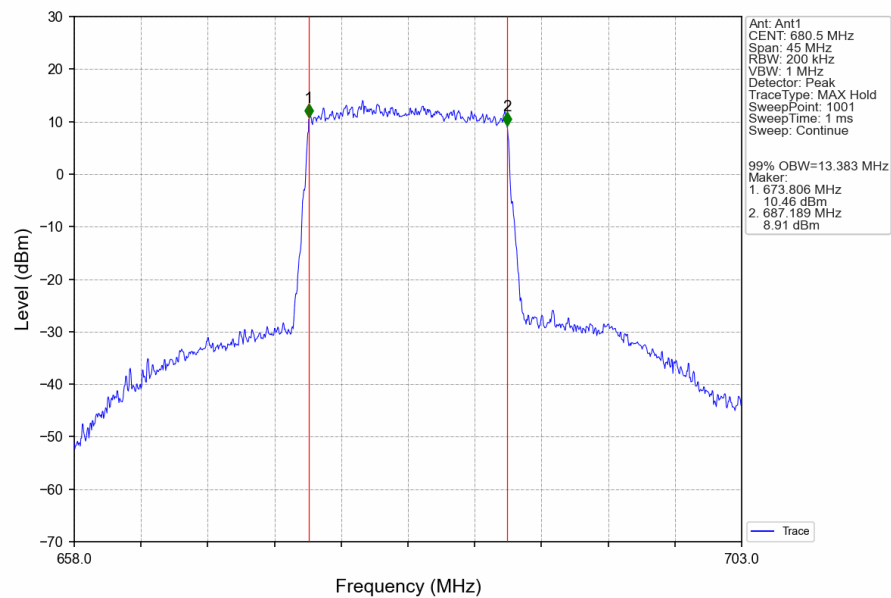
Band71_10MHz_256QAM_MCH_680.5MHz_RB_50_0_NTNV



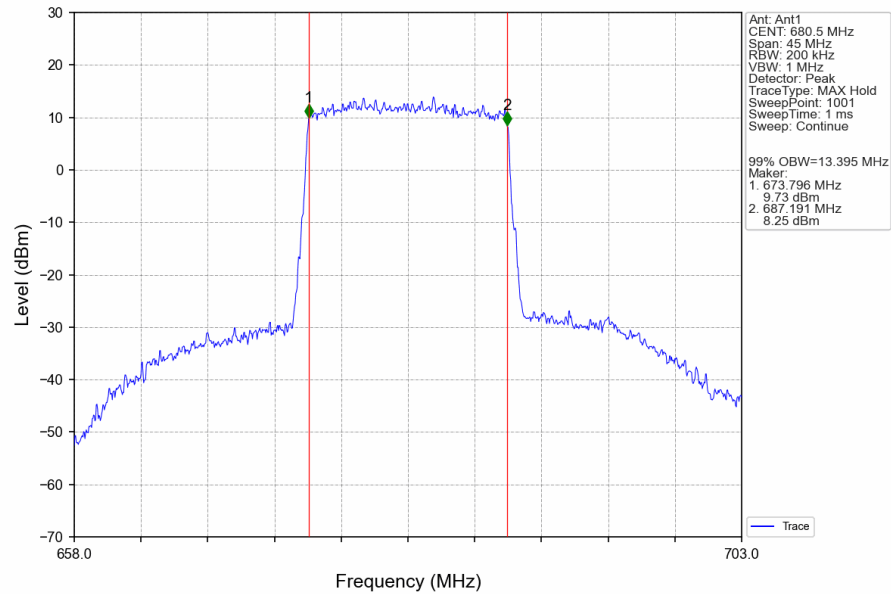
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



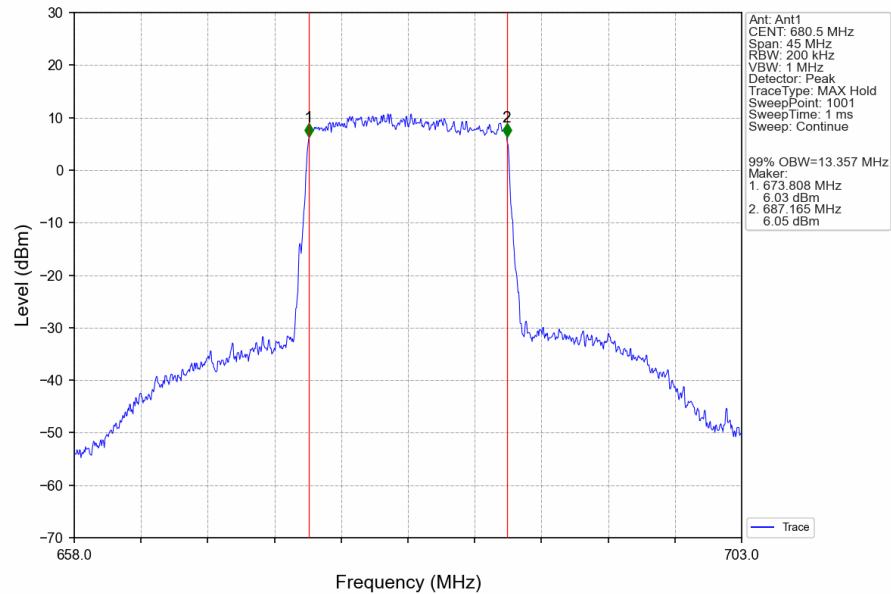
Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



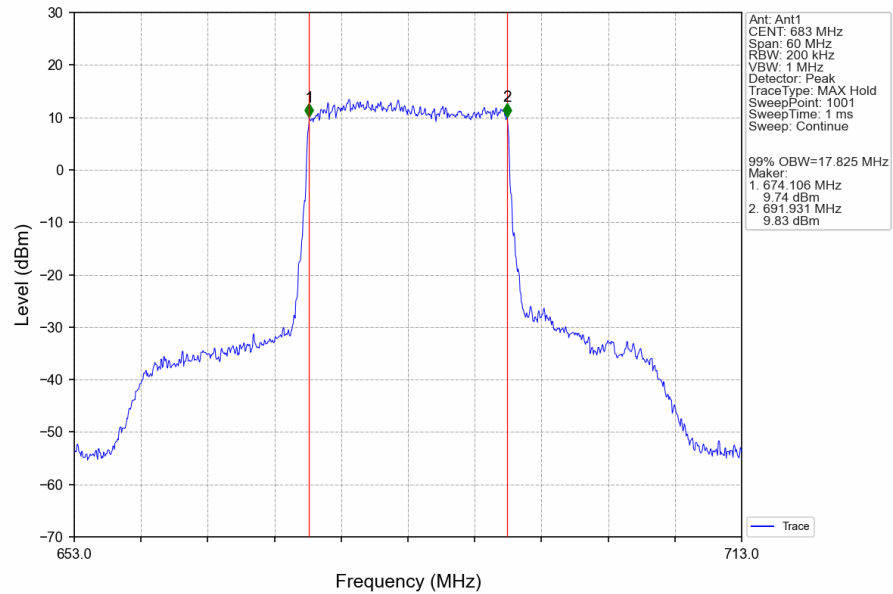
Band71_15MHz_64QAM_MCH_680.5MHz_RB_75_0_NTNV



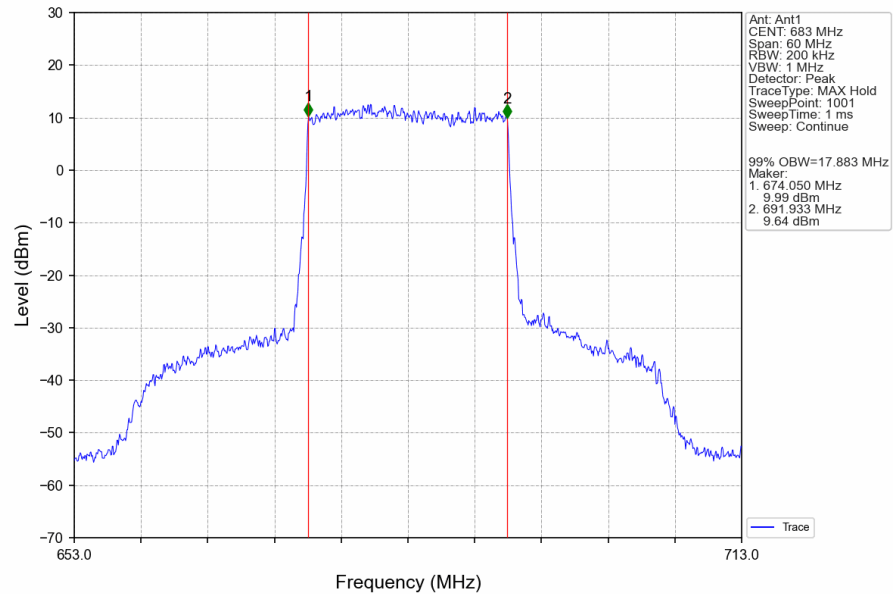
Band71_15MHz_256QAM_MCH_680.5MHz_RB_75_0_NTNV



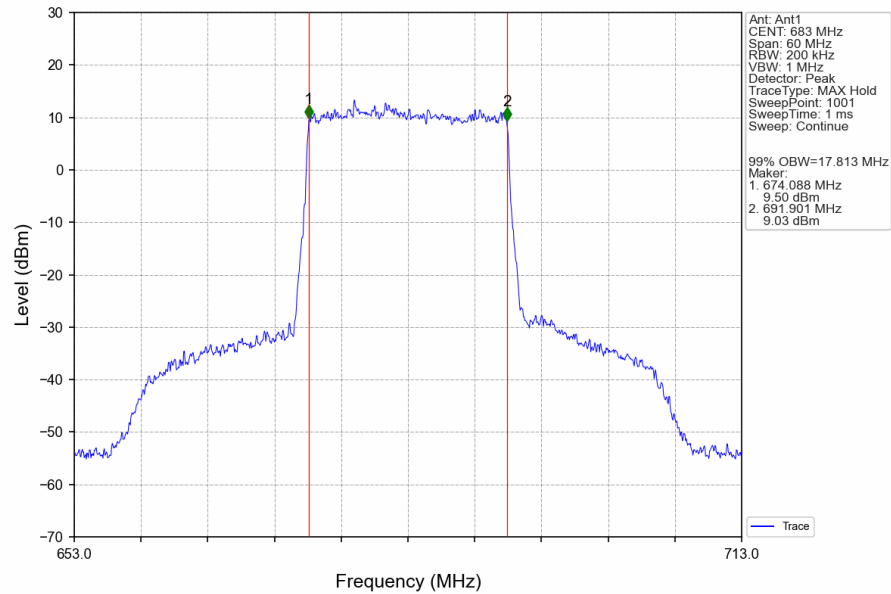
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



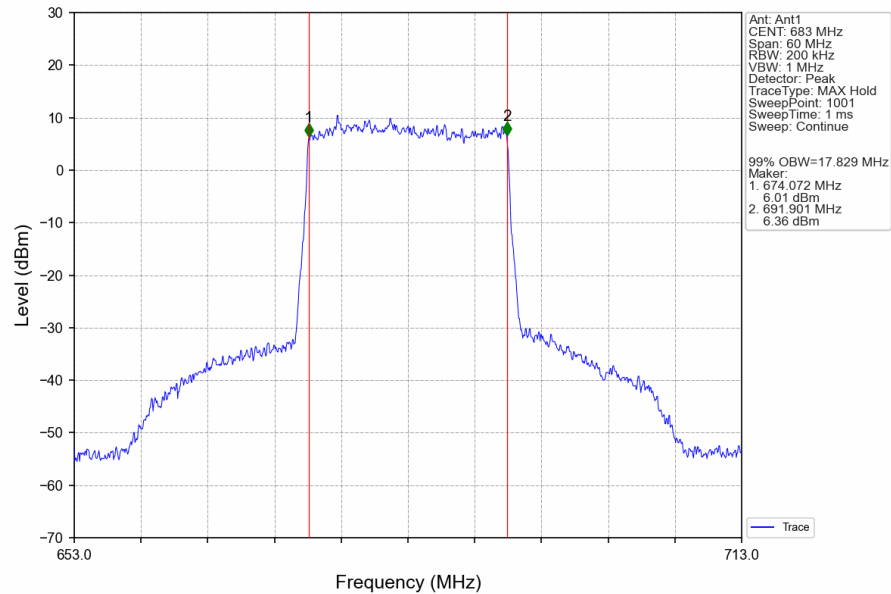
Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



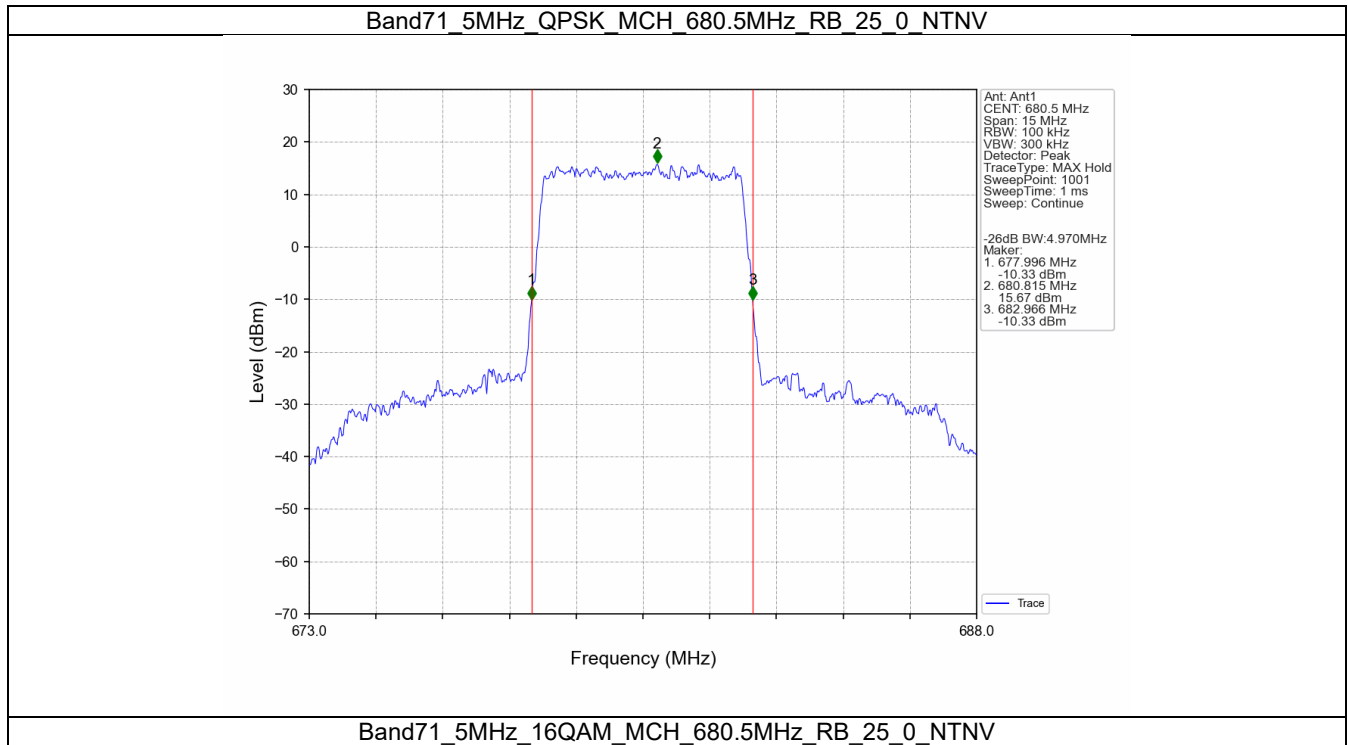
Band71_20MHz_64QAM_MCH_683MHz_RB_100_0_NTNV

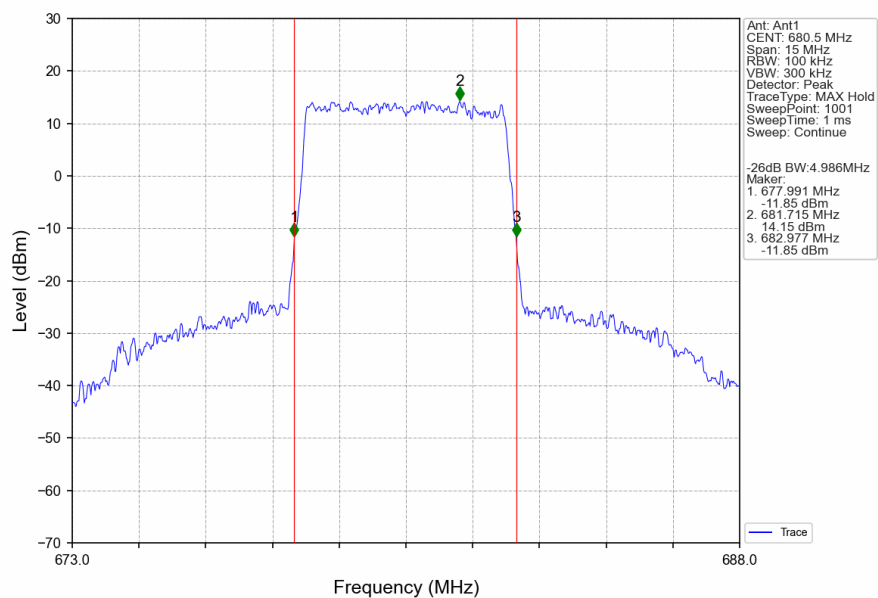


Band71_20MHz_256QAM_MCH_683MHz_RB_100_0_NTNV

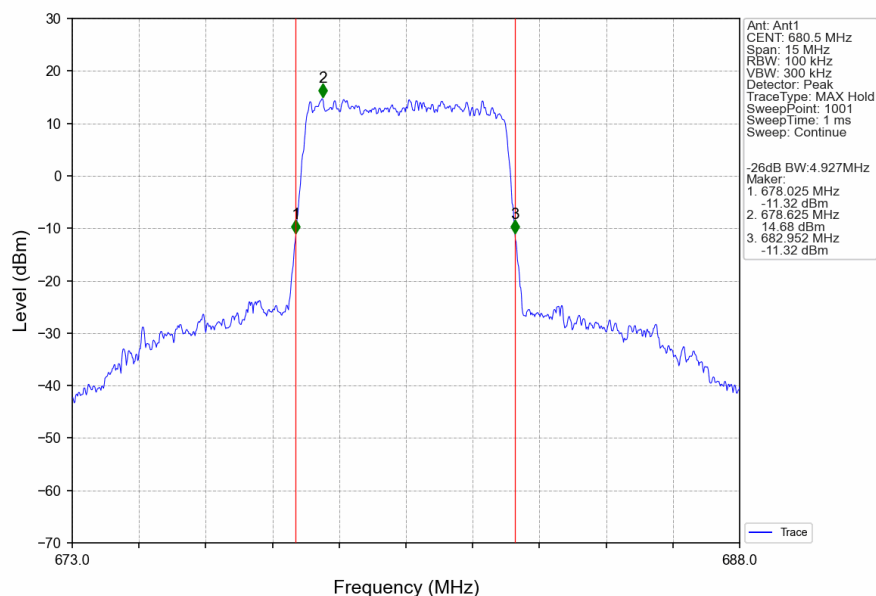


3.2.2 Band71_XDB

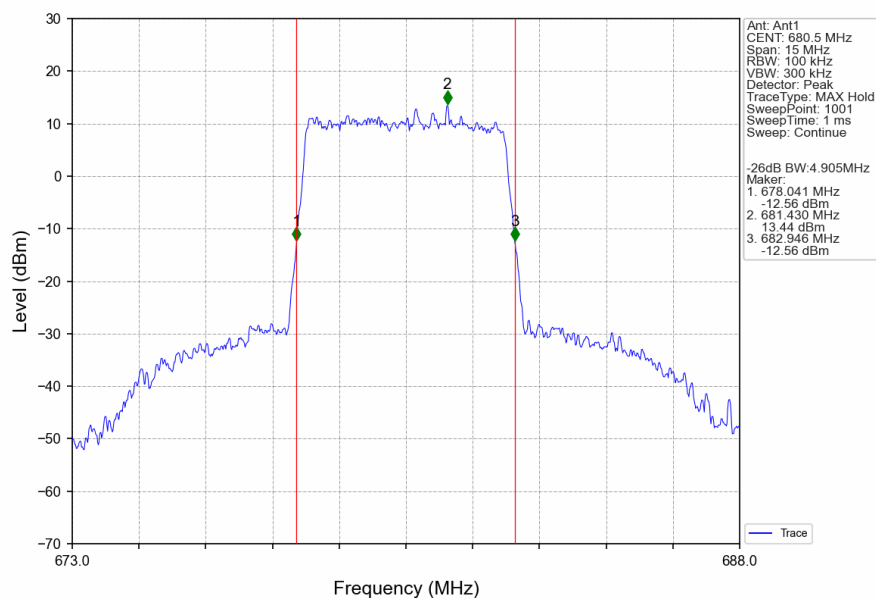




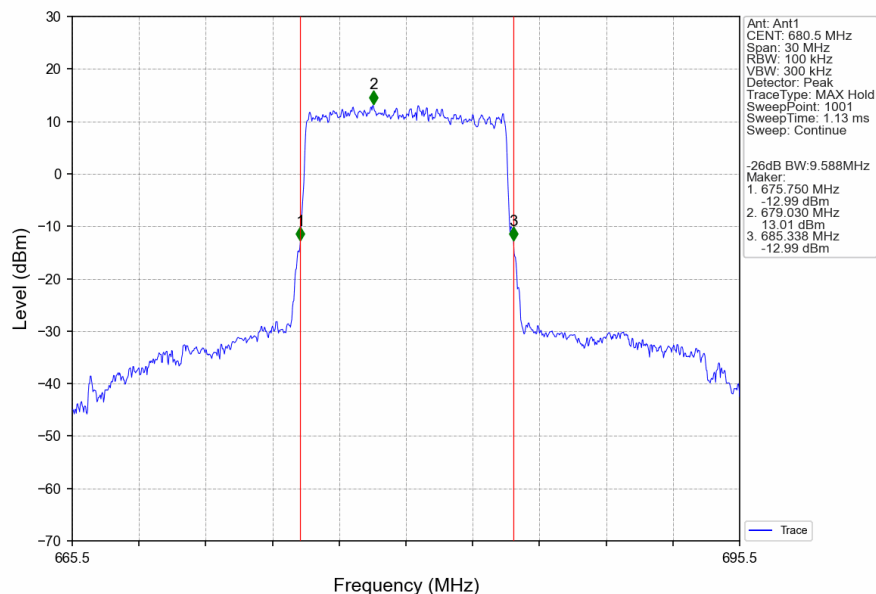
Band71_5MHz_64QAM_MCH_680.5MHz_RB_25_0_NTNV



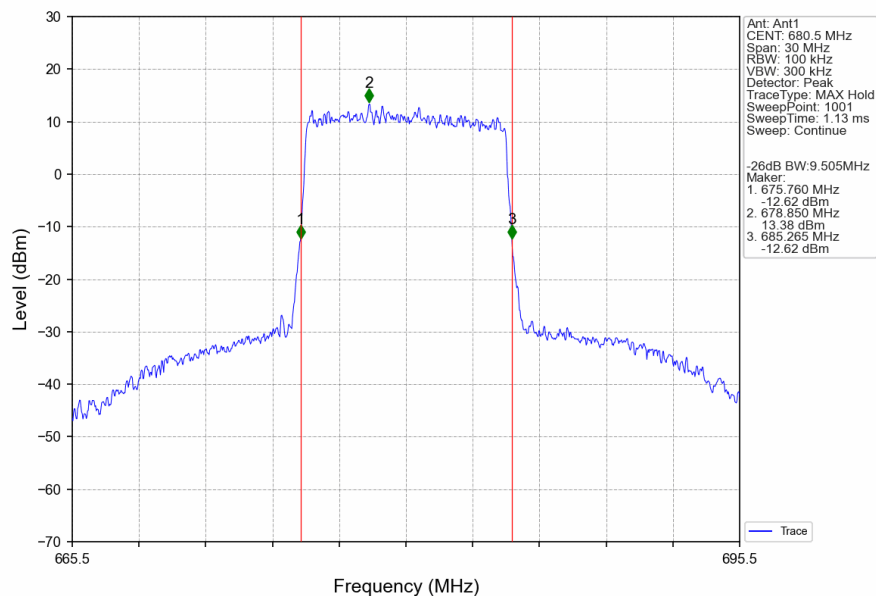
Band71_5MHz_256QAM_MCH_680.5MHz_RB_25_0_NTNV



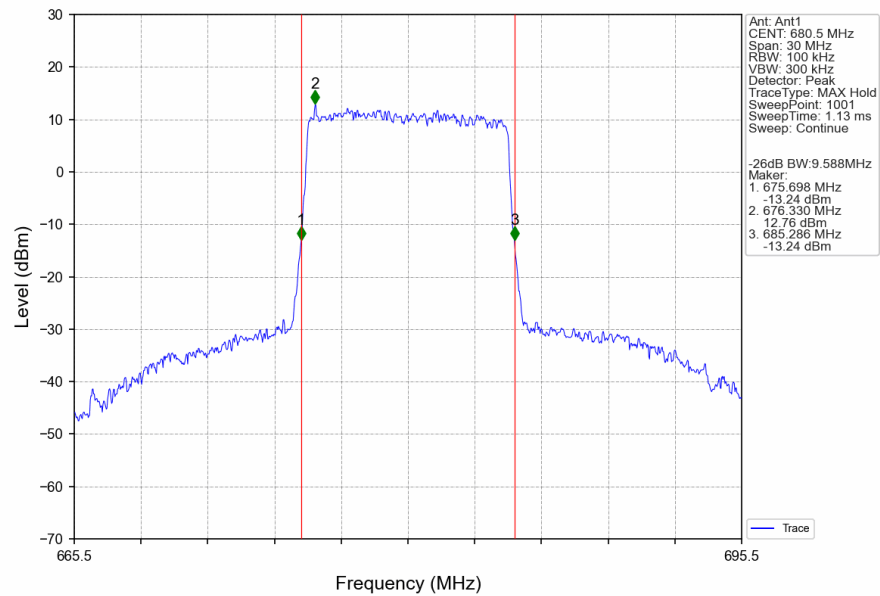
Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



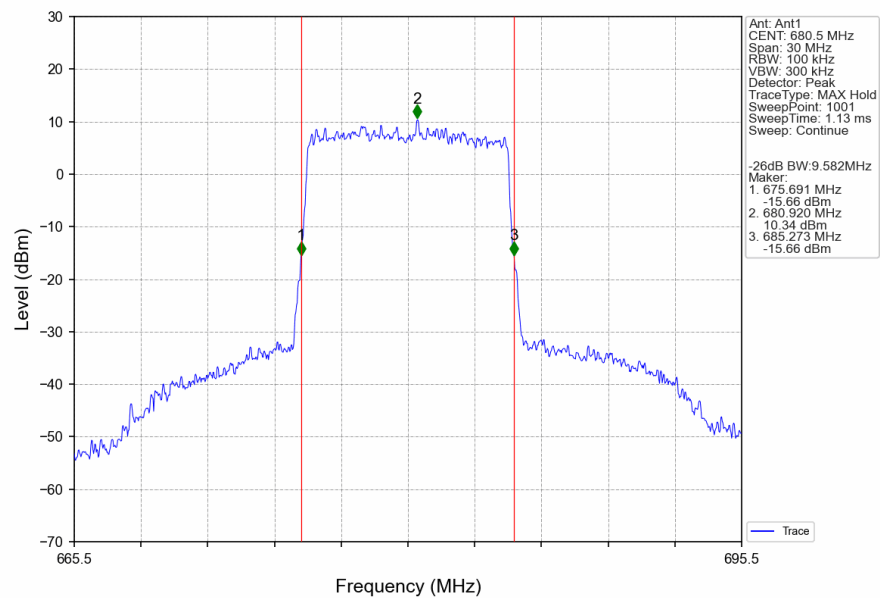
Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



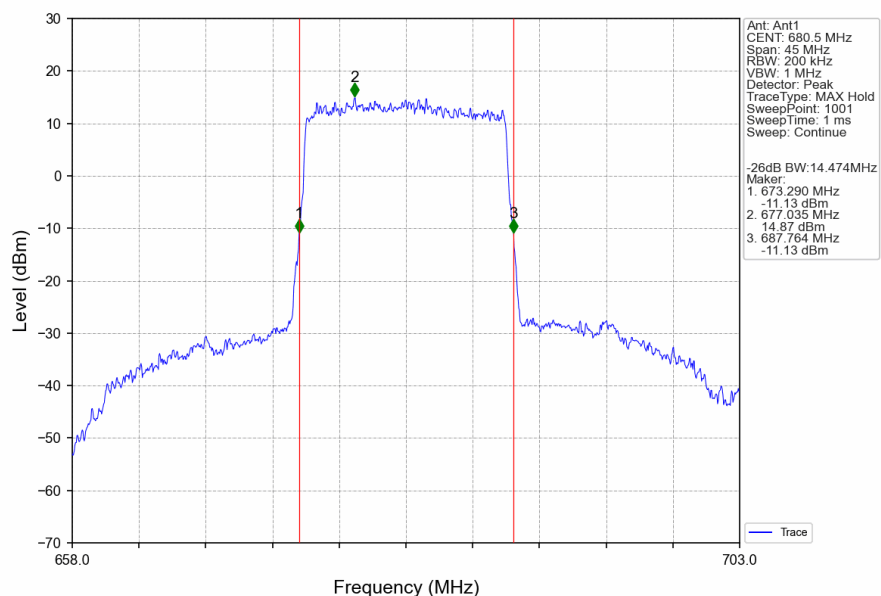
Band71_10MHz_64QAM_MCH_680.5MHz_RB_50_0_NTNV



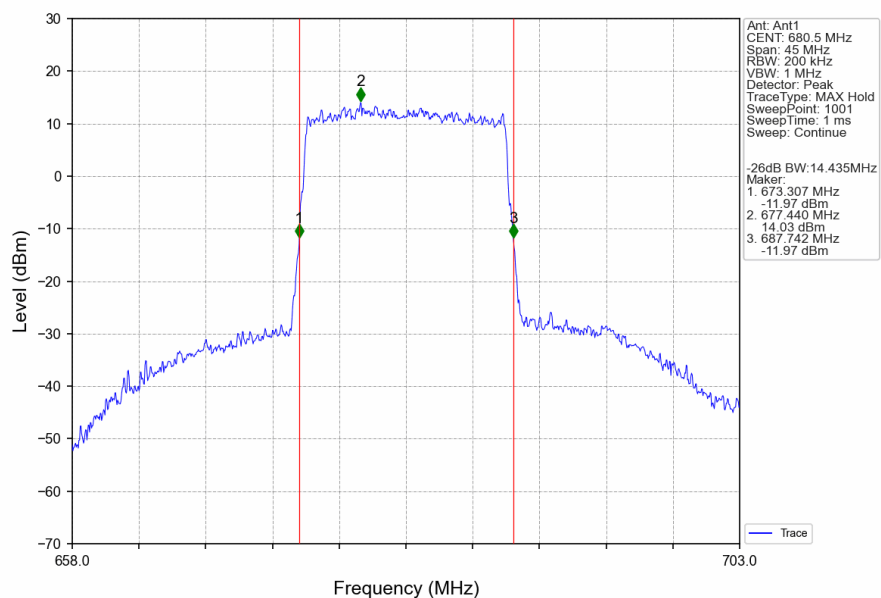
Band71_10MHz_256QAM_MCH_680.5MHz_RB_50_0_NTNV



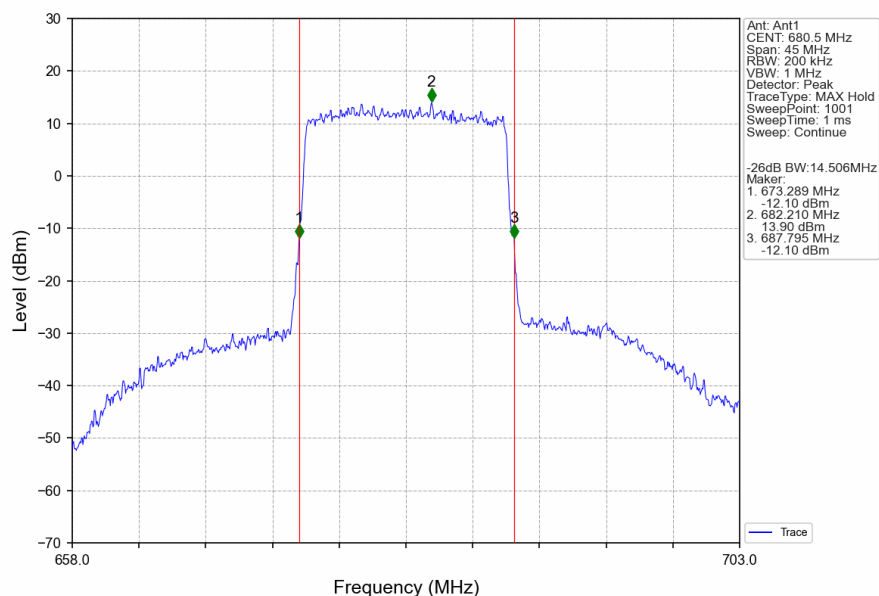
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



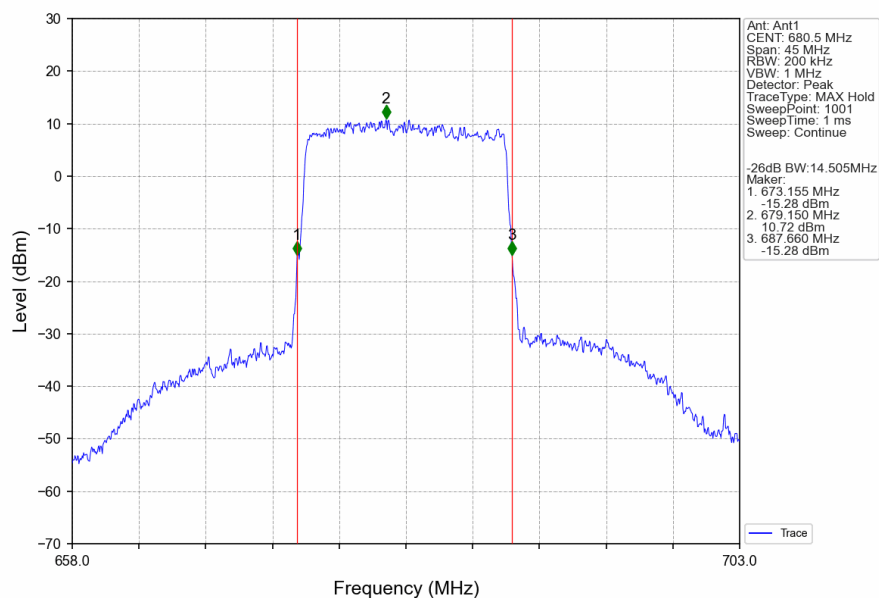
Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



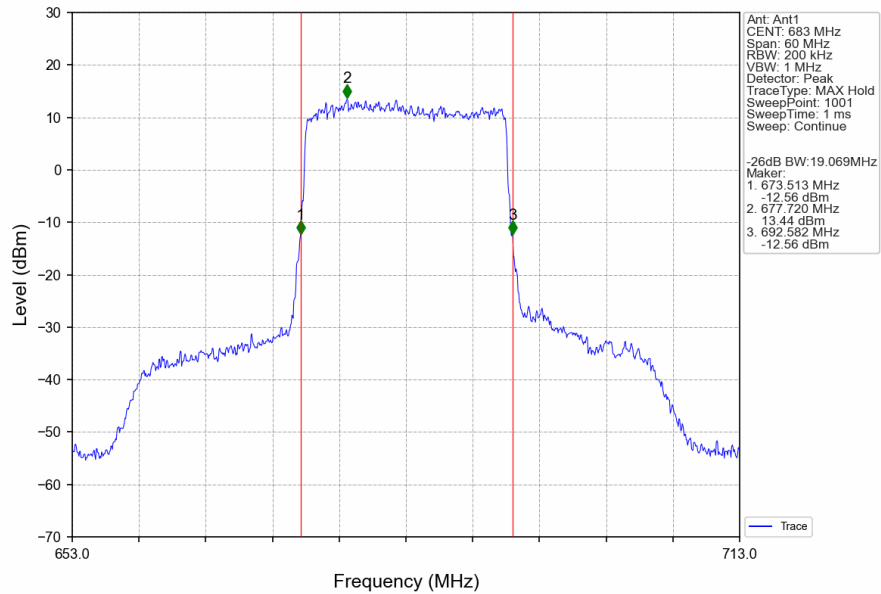
Band71_15MHz_64QAM_MCH_680.5MHz_RB_75_0_NTNV



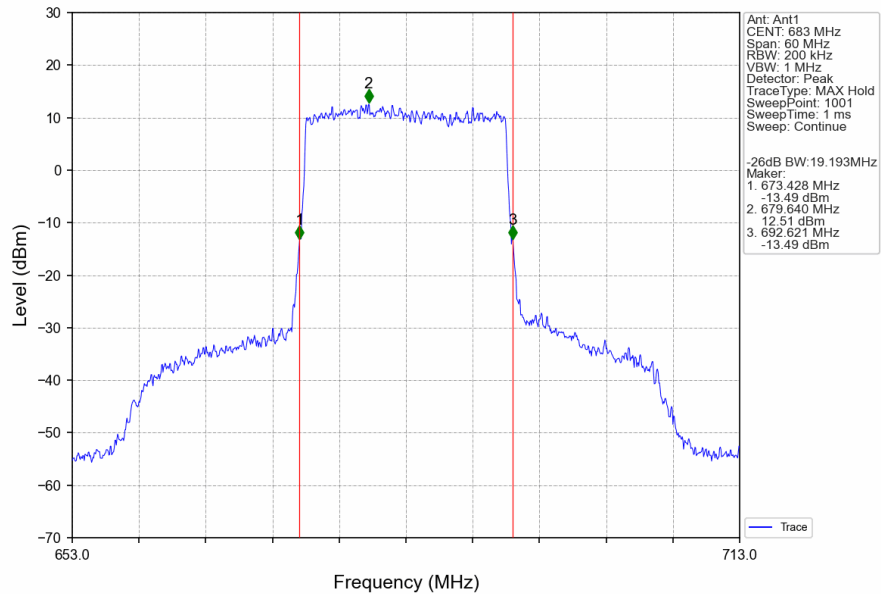
Band71_15MHz_256QAM_MCH_680.5MHz_RB_75_0_NTNV



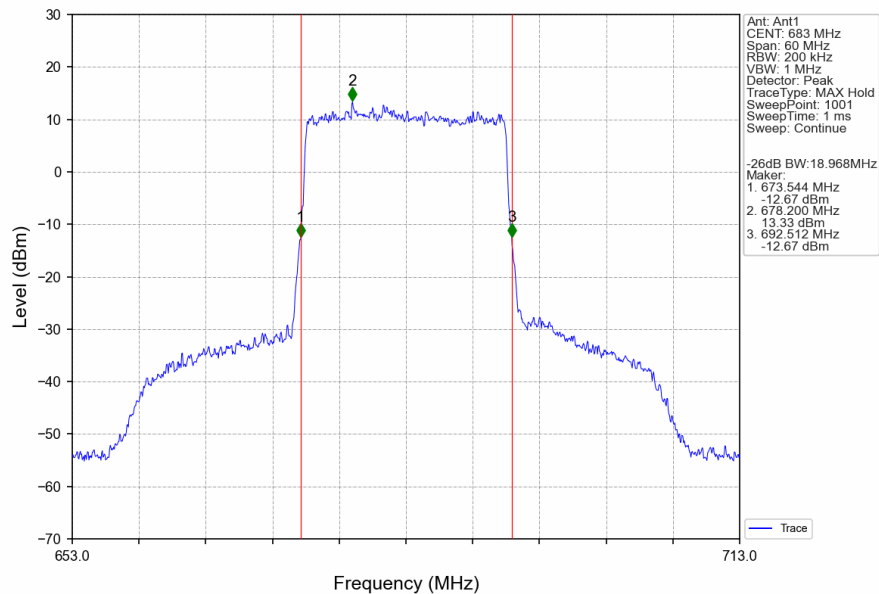
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



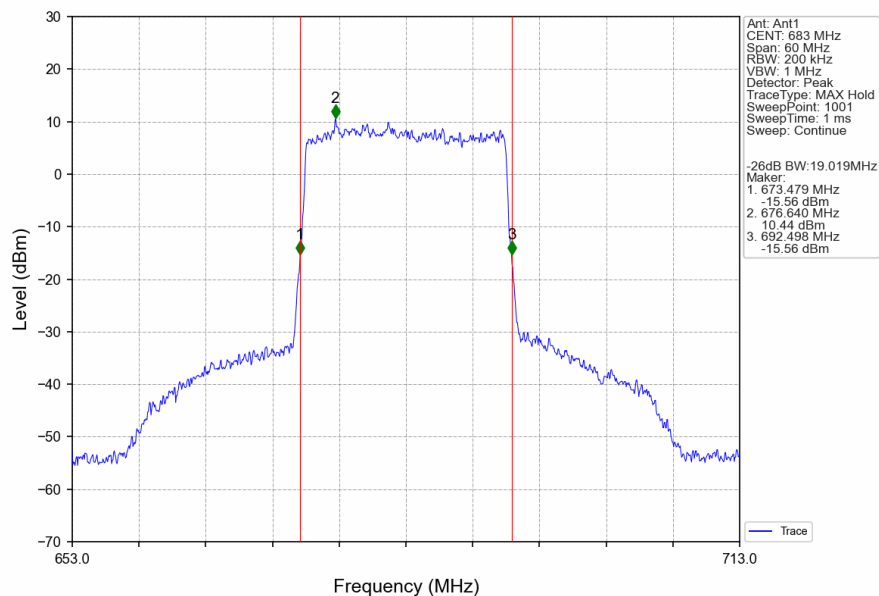
Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_64QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_256QAM_MCH_683MHz_RB_100_0_NTNV





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4. Peak-Average Ratio

4.1 Test Result

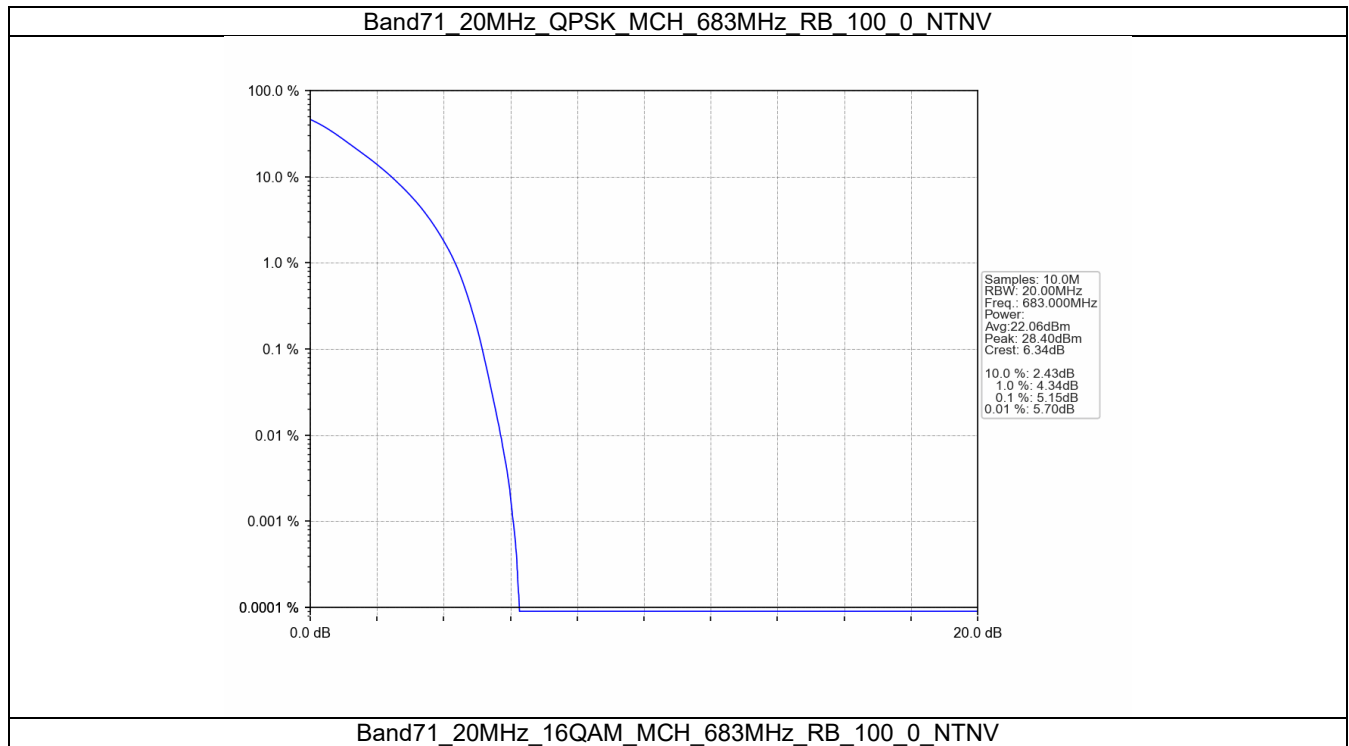
4.1.1 B71_20MHz

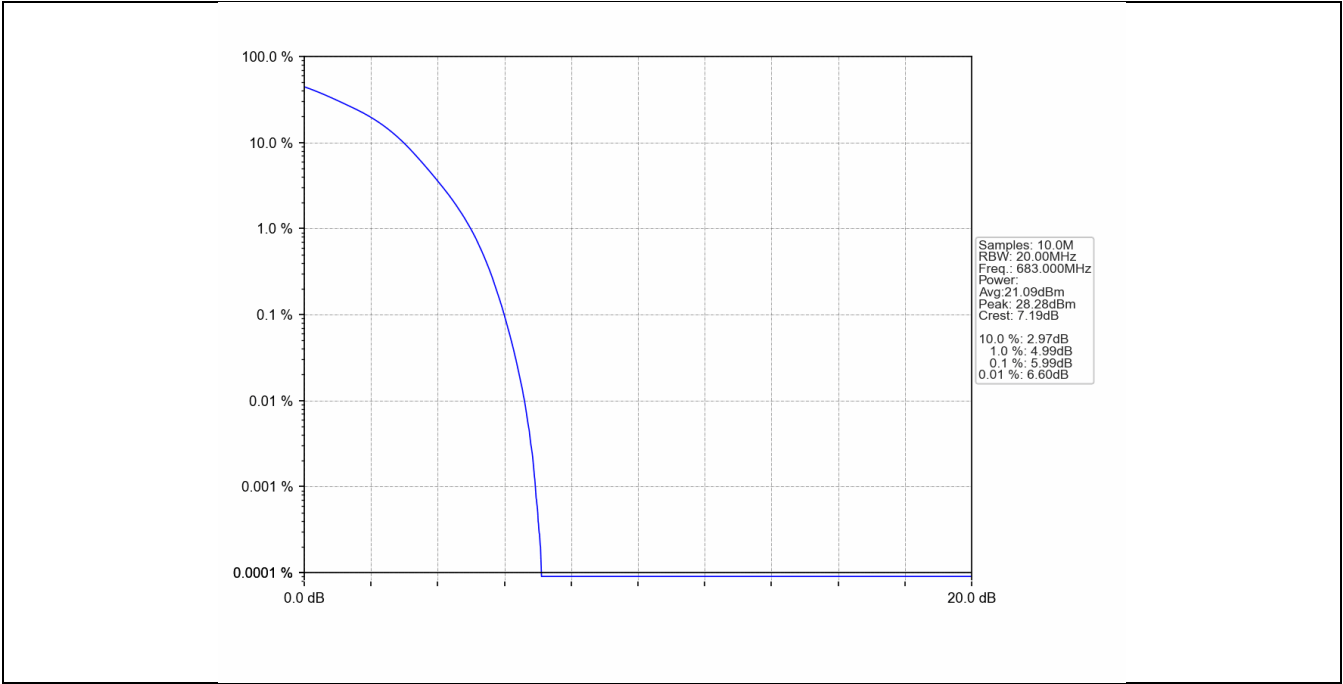
Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	683	100	0	5.15	<=13	Pass
16QAM	683	100	0	5.99	<=13	Pass
64QAM	683	100	0	5.97	<=13	Pass
256QAM	683	100	0	6.58	<=13	Pass



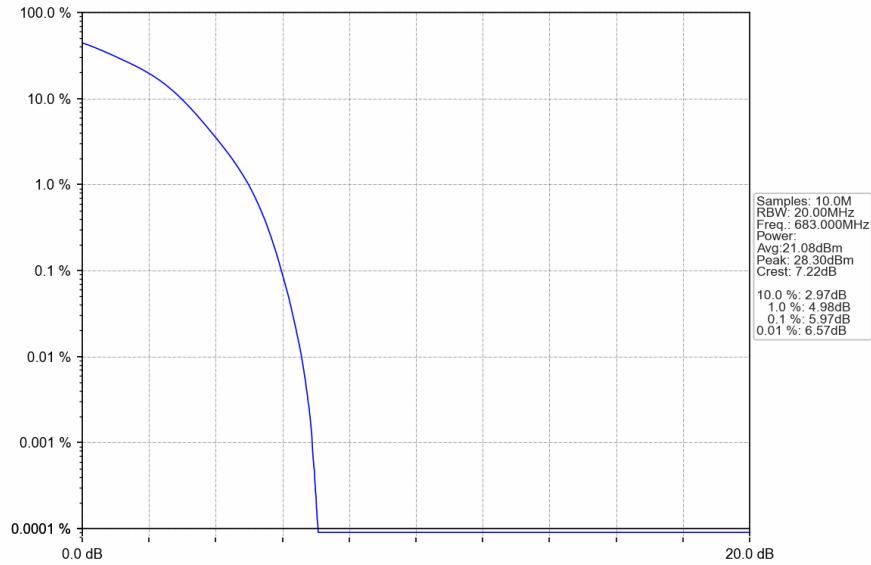
4.2 Test Graph

4.2.1 B71_20MHz

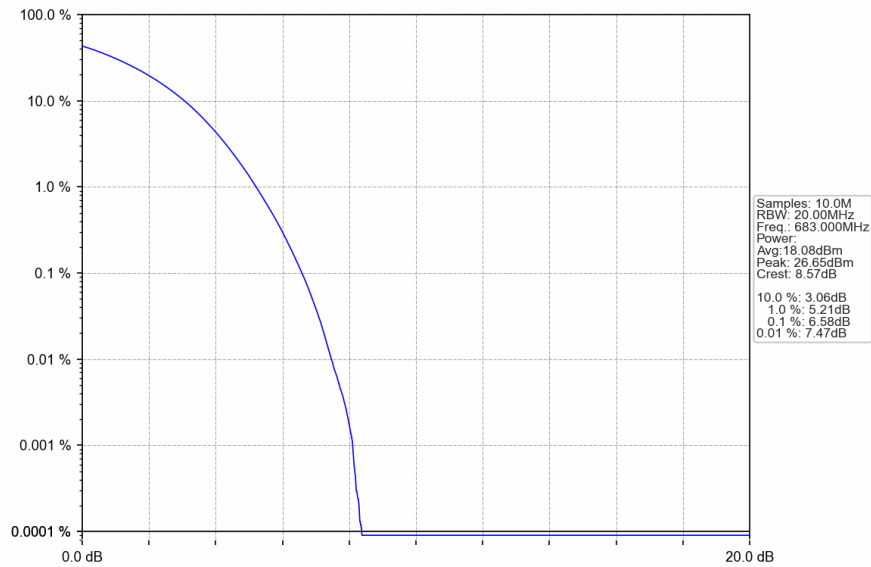




Band71_20MHz_64QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_256QAM_MCH_683MHz_RB_100_0_NTNV





5. Spurious Emission

5.1 Test Result

5.1.1 B71_5MHz

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		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B71_10MHz

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

5.1.3 B71_15MHz

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
	690.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.1.4 B71_20MHz

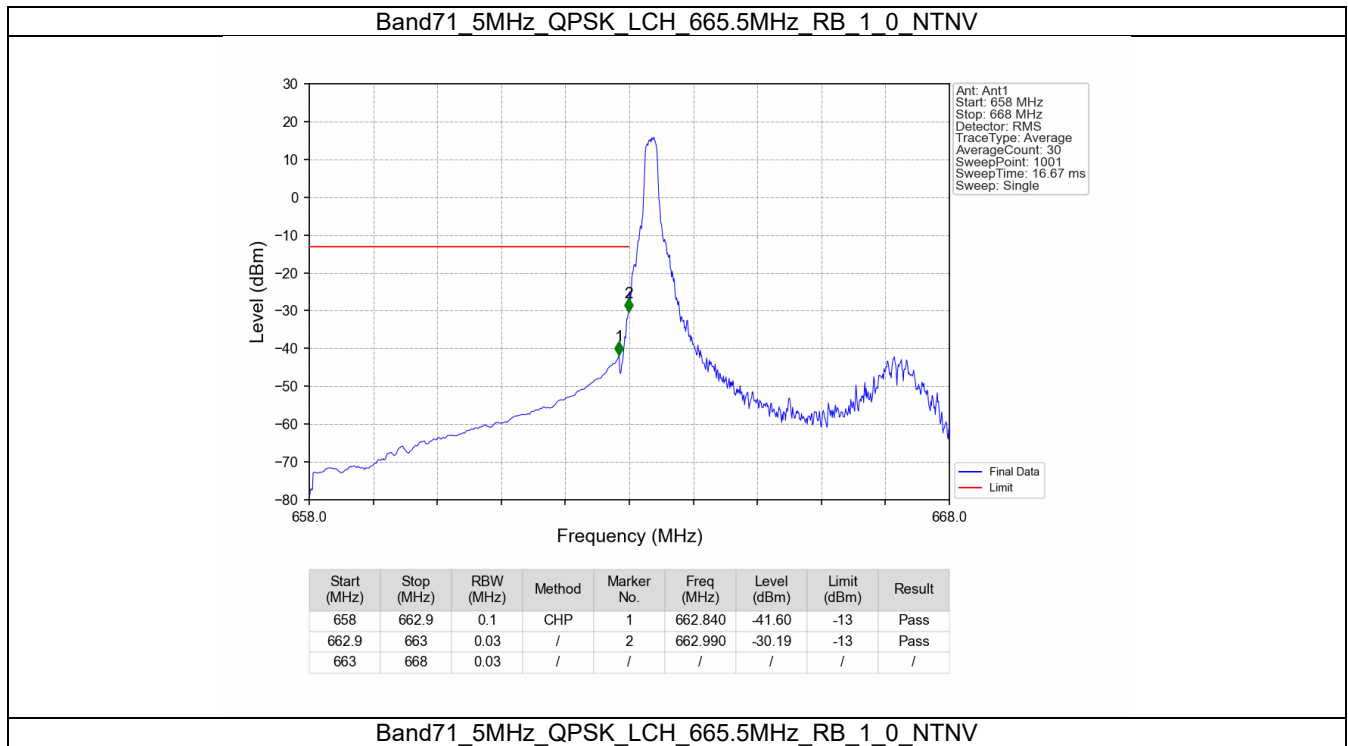
Band: 71 / Bandwidth: 20MHz / NTNV				
Modulation	Frequency	RB Allocation	Spurious Emission	Verdict

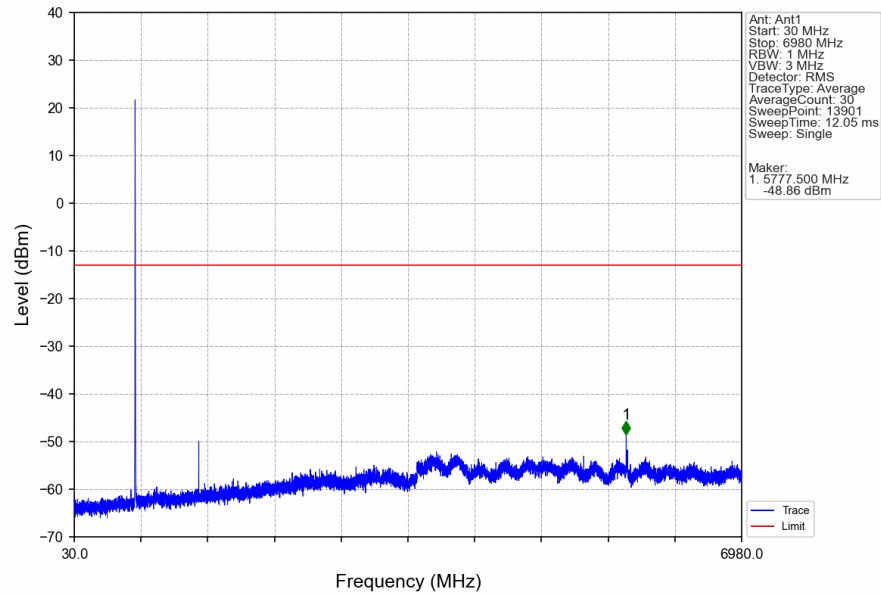


	(MHz)	Size	Offset	Result	Limit	
QPSK	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	683	1	0	Refer To Test Graph		Pass
	688	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

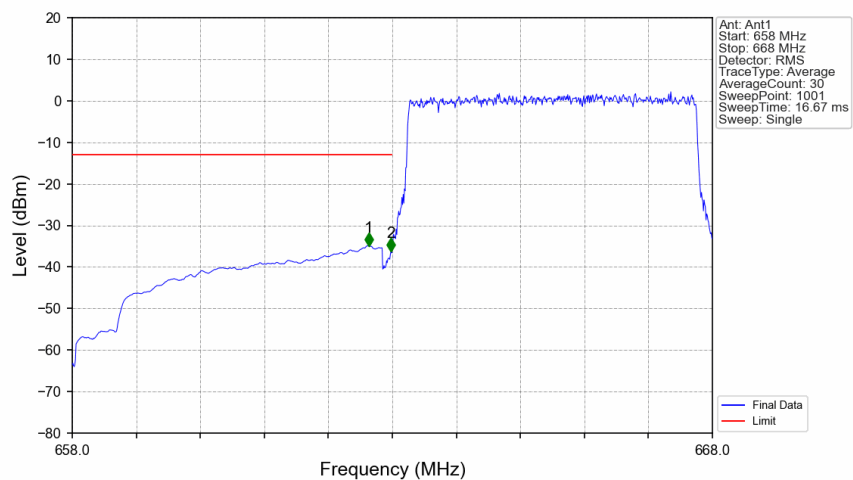
5.2 Test Graph

5.2.1 B71_5MHz



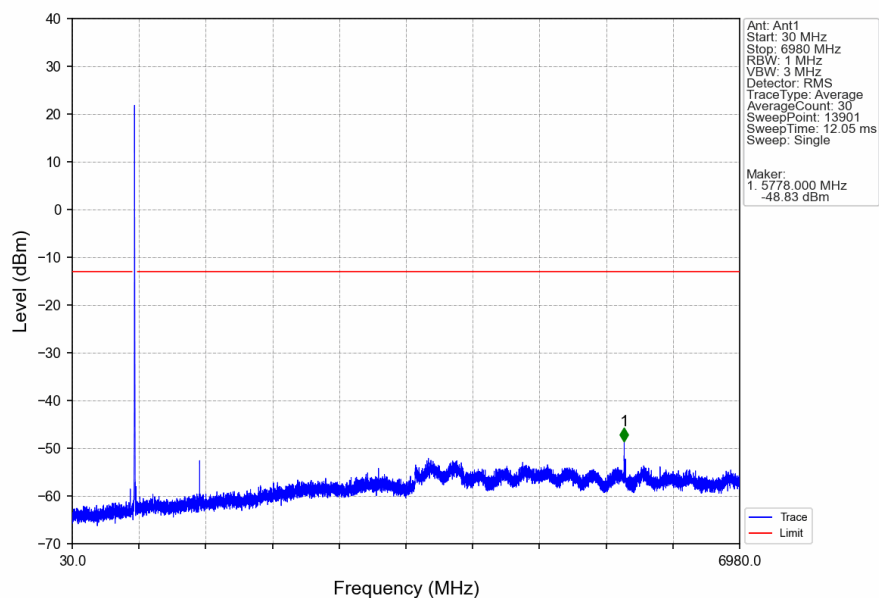


Band71_5MHz_QPSK_LCH_665.5MHz_RB_25_0_NTNV

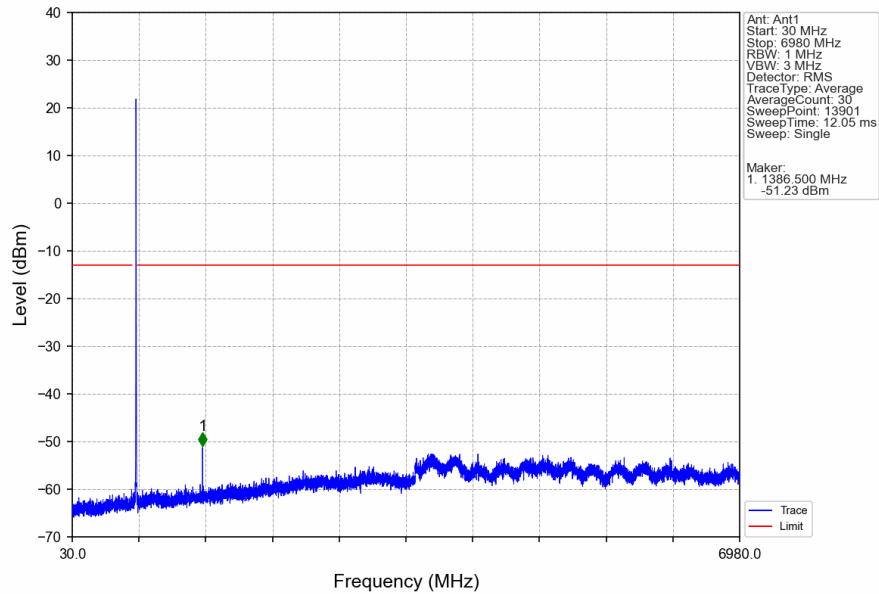


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662.9	0.1	CHP	1	662.630	-34.93	-13	Pass
662.9	663	0.03	/	2	662.980	-36.17	-13	Pass
663	668	0.03	/	/	/	/	/	/

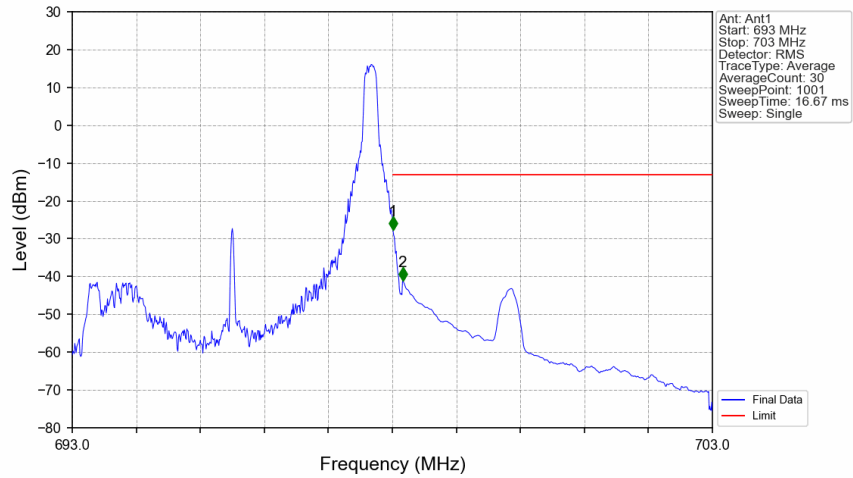
Band71_5MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_0_NTNV



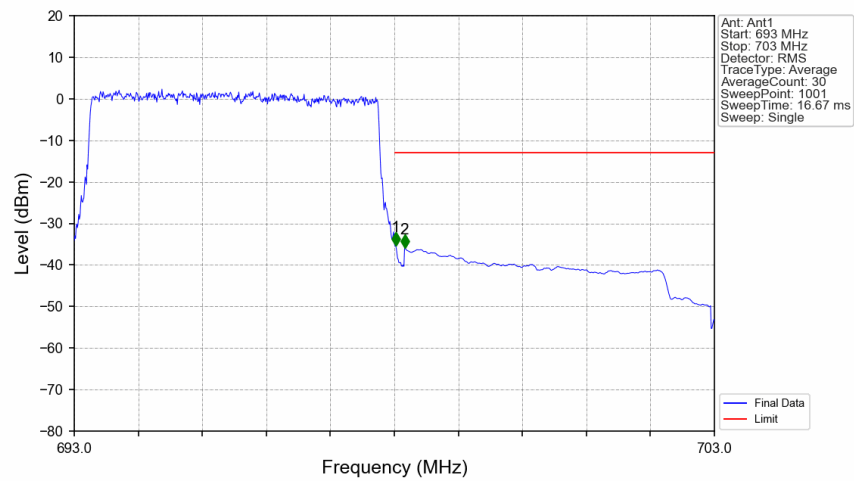
Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.010	-27.63	-13	Pass
698.1	703	0.1	CHP	2	698.160	-40.99	-13	Pass

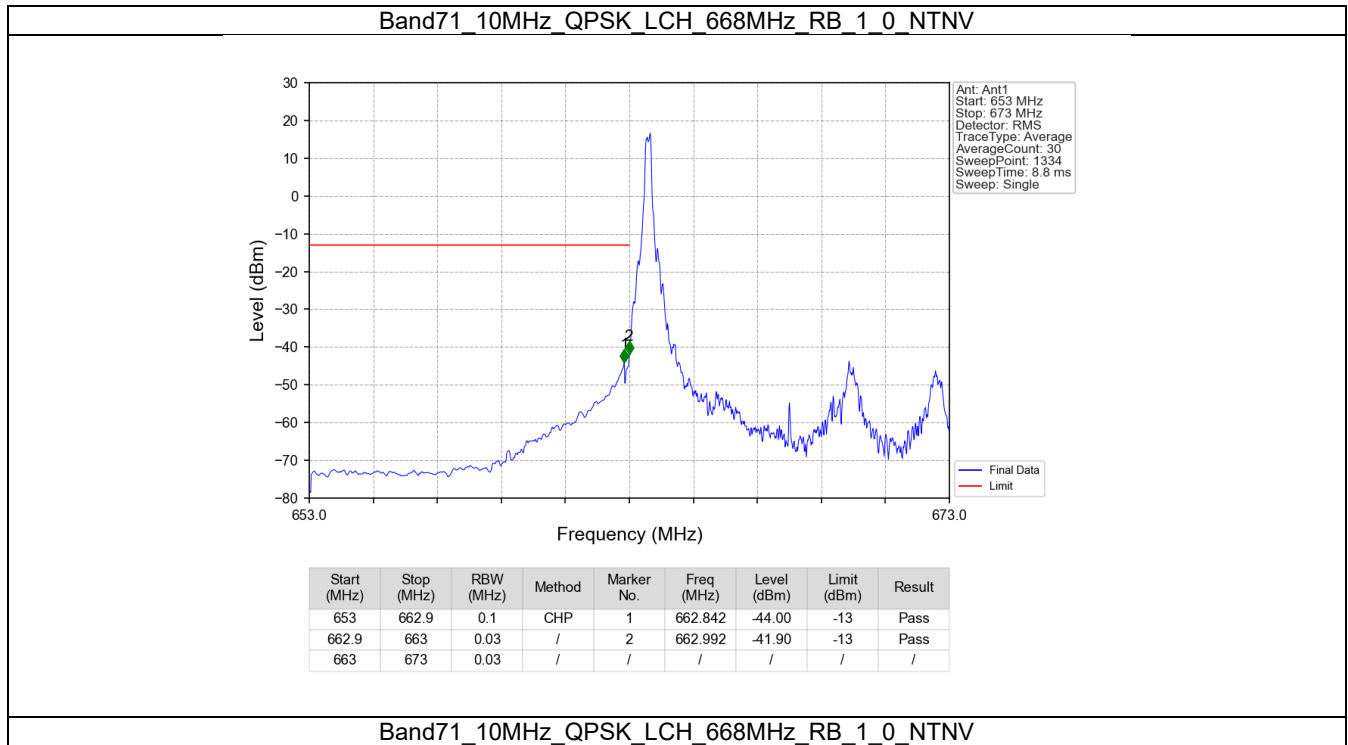


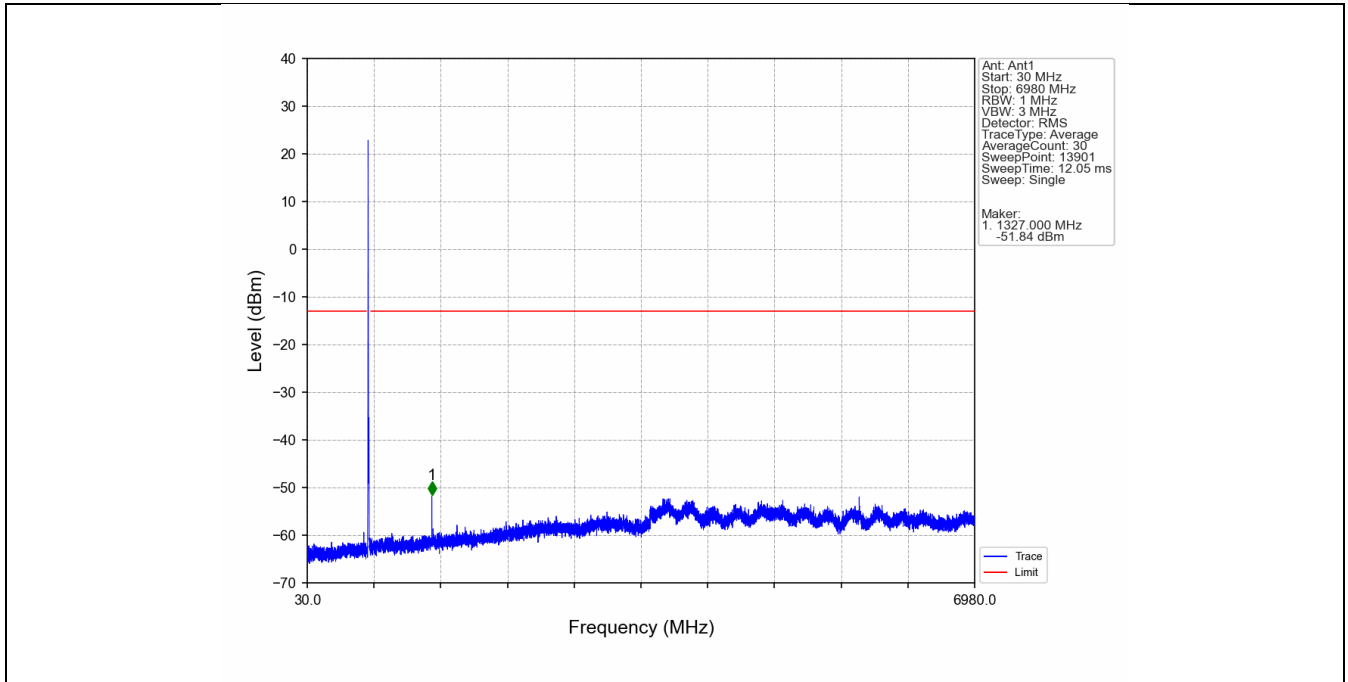
Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



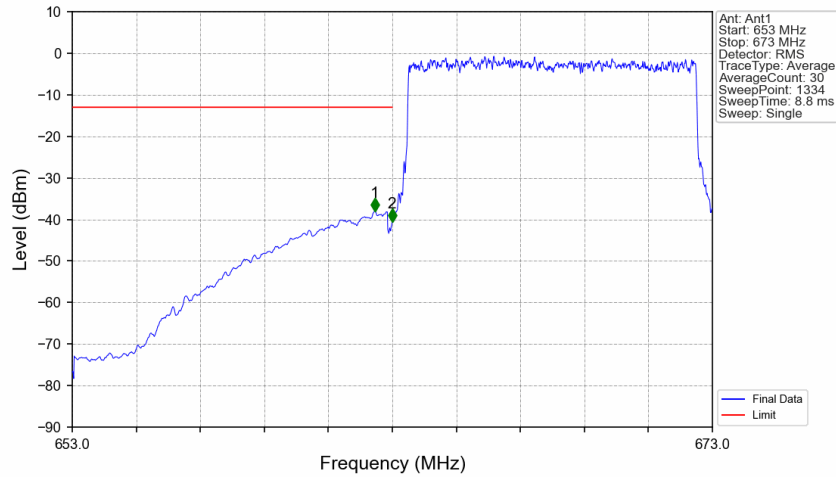
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.020	-35.36	-13	Pass
698.1	703	0.1	CHP	2	698.160	-35.94	-13	Pass

5.2.2 B71_10MHz



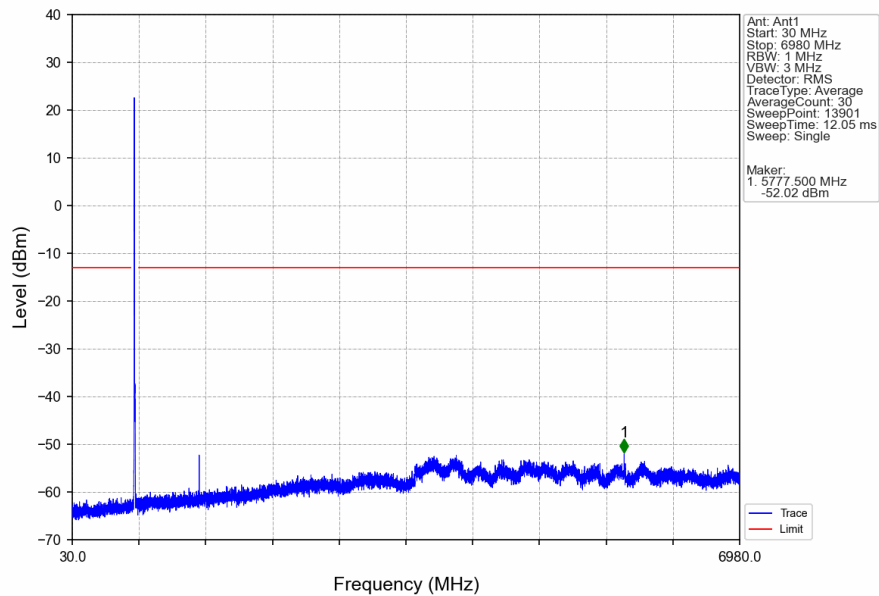


Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV

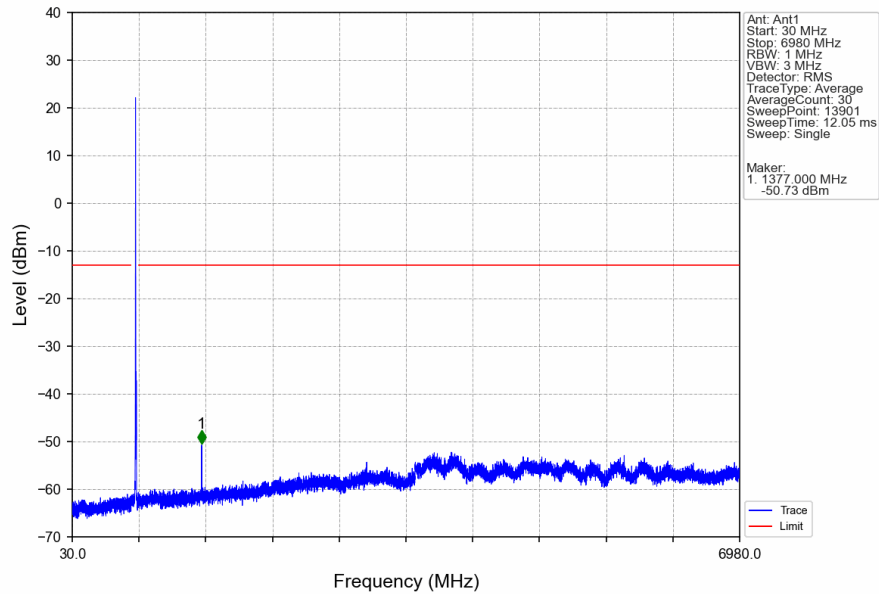


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	662.9	0.1	CHP	1	662.452	-38.04	-13	Pass
662.9	663	0.03	/	2	662.992	-40.55	-13	Pass
663	673	0.03	/	/	/	/	/	/

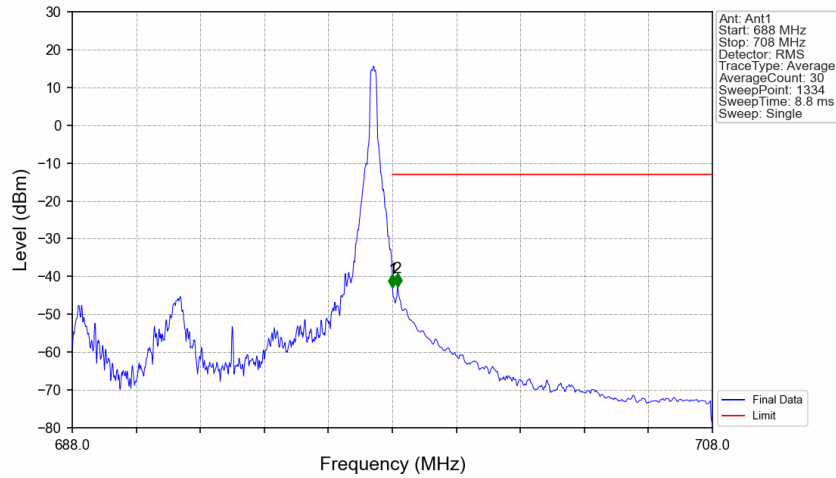
Band71_10MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



Band71_10MHz_QPSK_HCH_693MHz_RB_1_0_NTNV



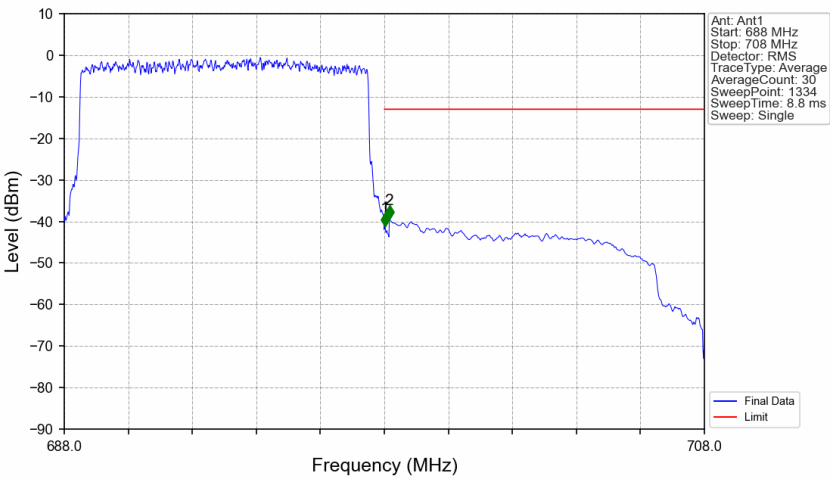
Band71_10MHz_QPSK_HCH_693MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.008	-42.96	-13	Pass
698.1	708	0.1	CHP	2	698.158	-42.71	-13	Pass

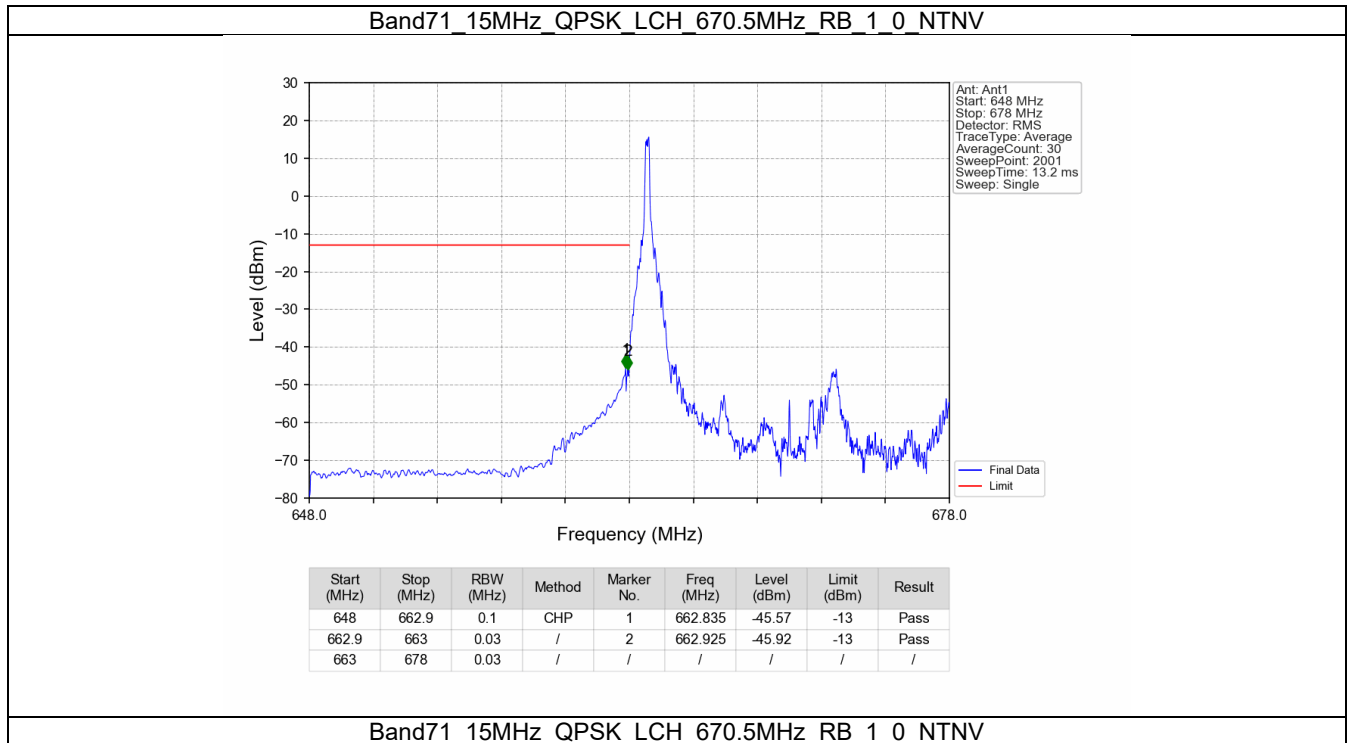


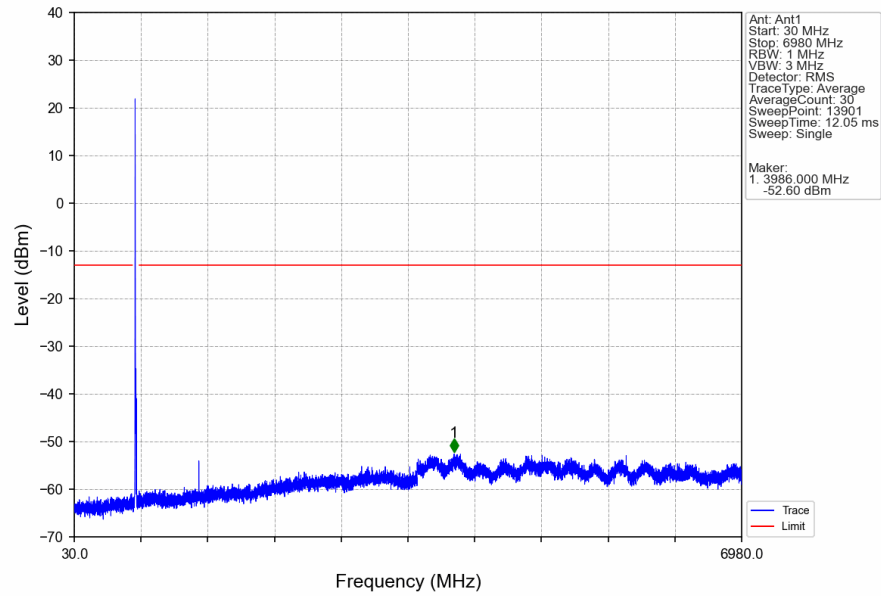
Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



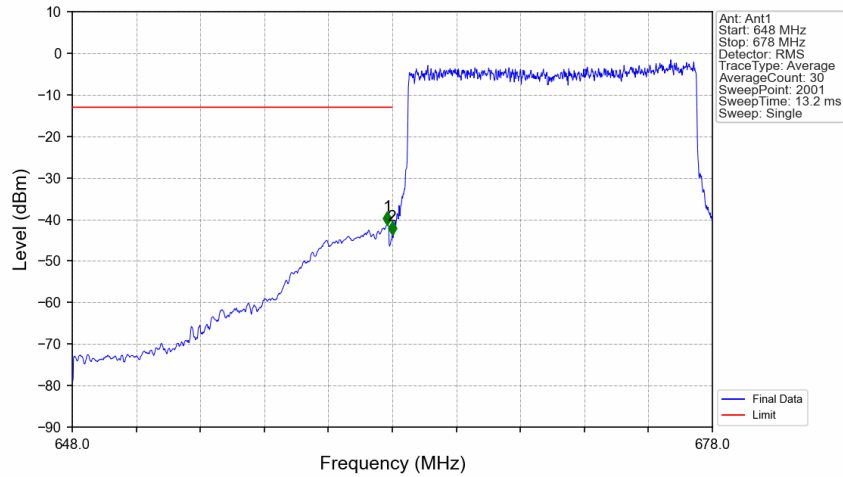
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.023	-41.04	-13	Pass
698.1	708	0.1	CHP	2	698.158	-39.27	-13	Pass

5.2.3 B71_15MHz



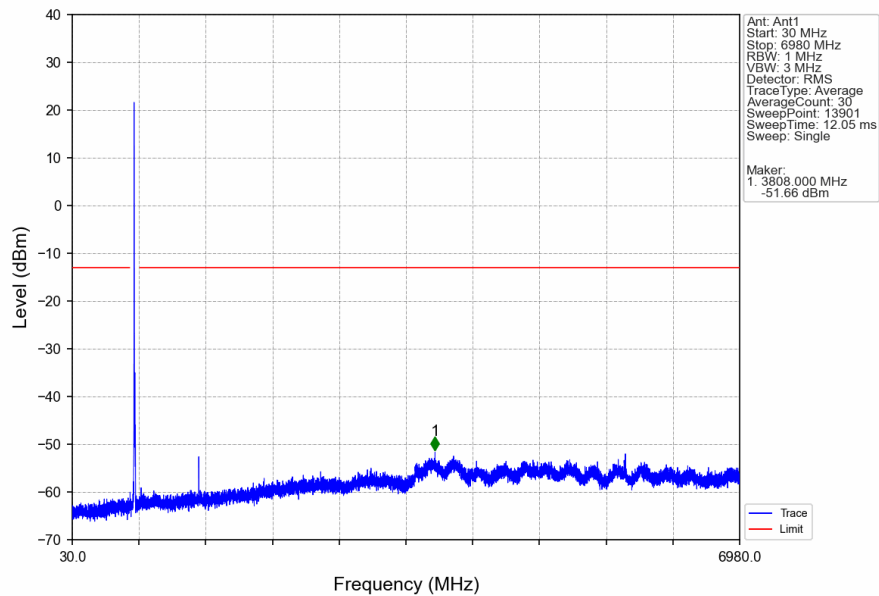


Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV

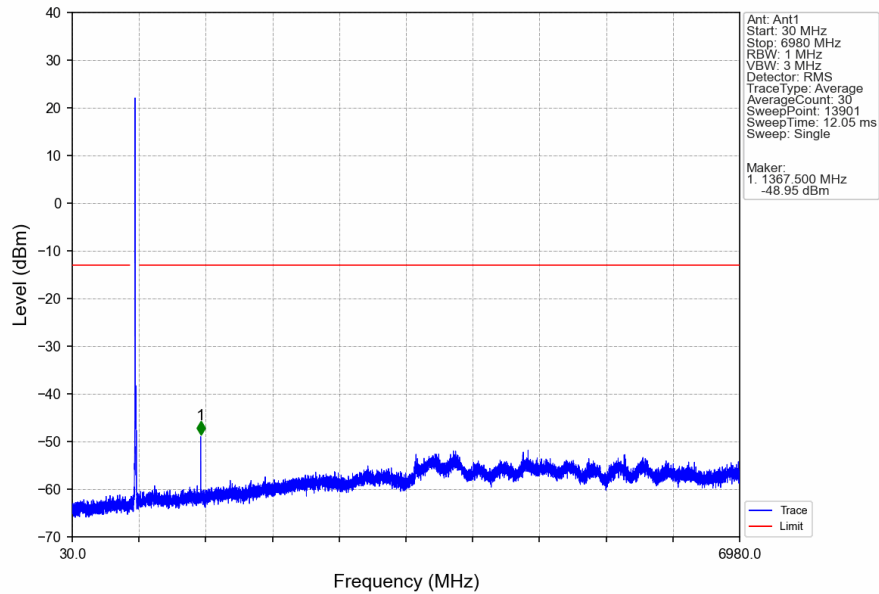


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662.9	0.1	CHP	1	662.760	-41.28	-13	Pass
662.9	663	0.03	/	2	662.985	-43.68	-13	Pass
663	678	0.03	/	/	/	/	/	/

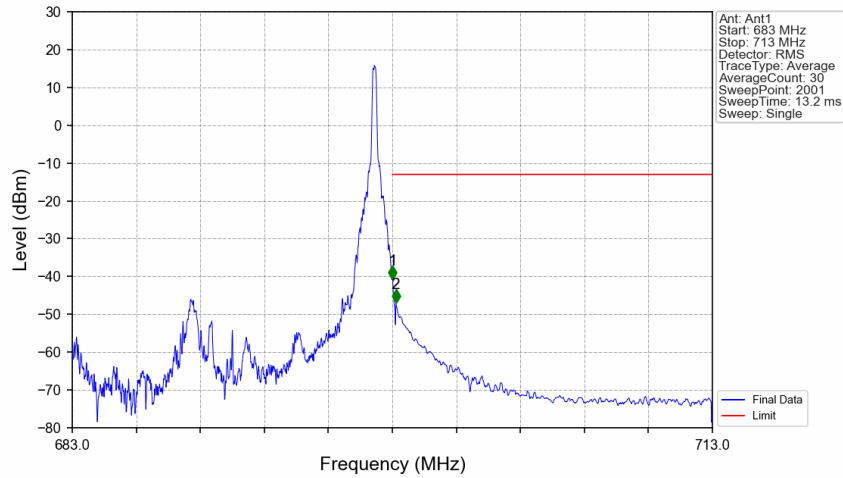
Band71_15MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



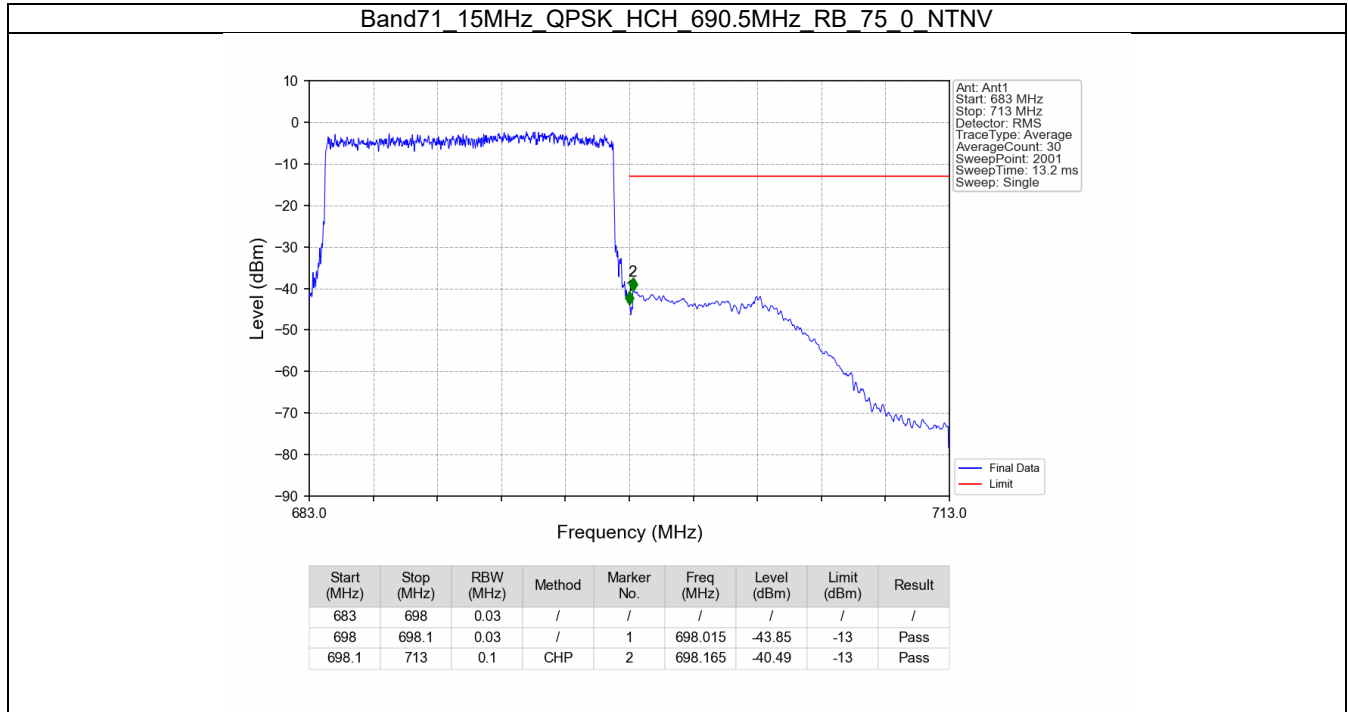
Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_0_NTNV



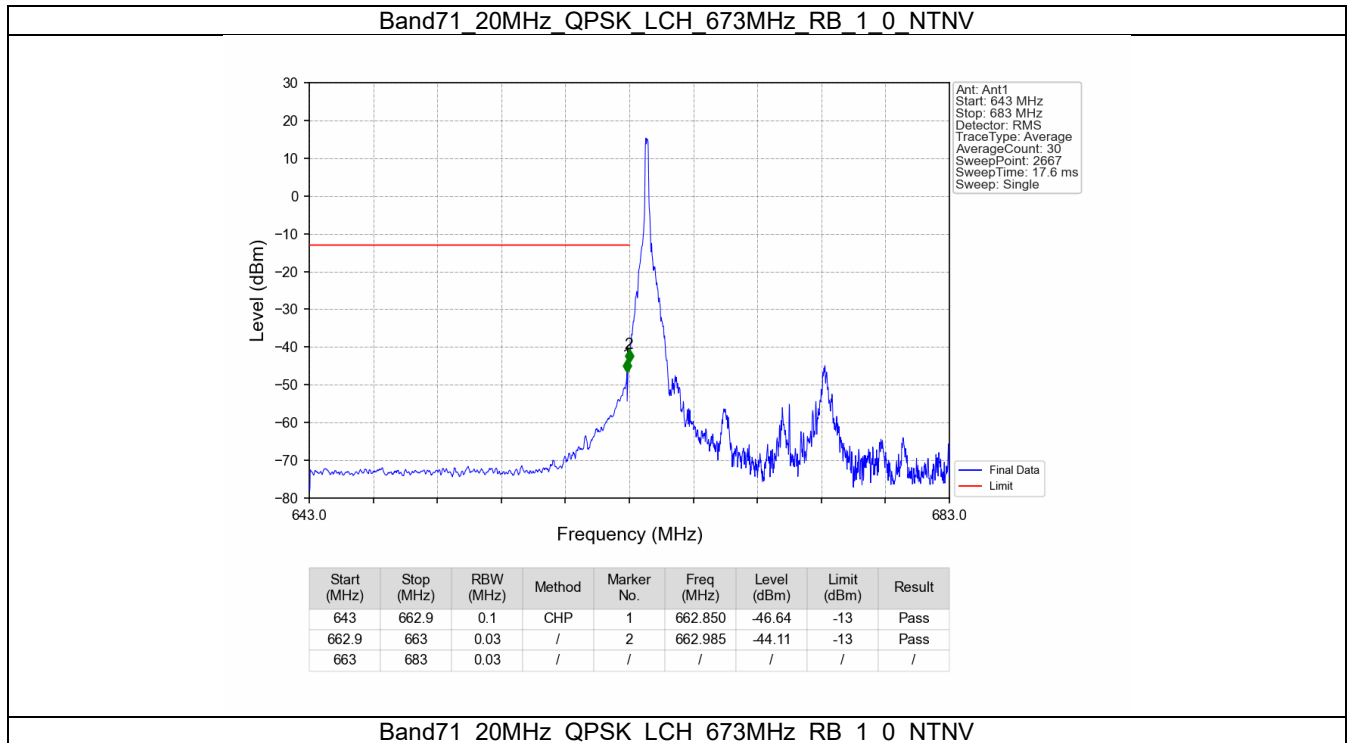
Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_74_NTNV

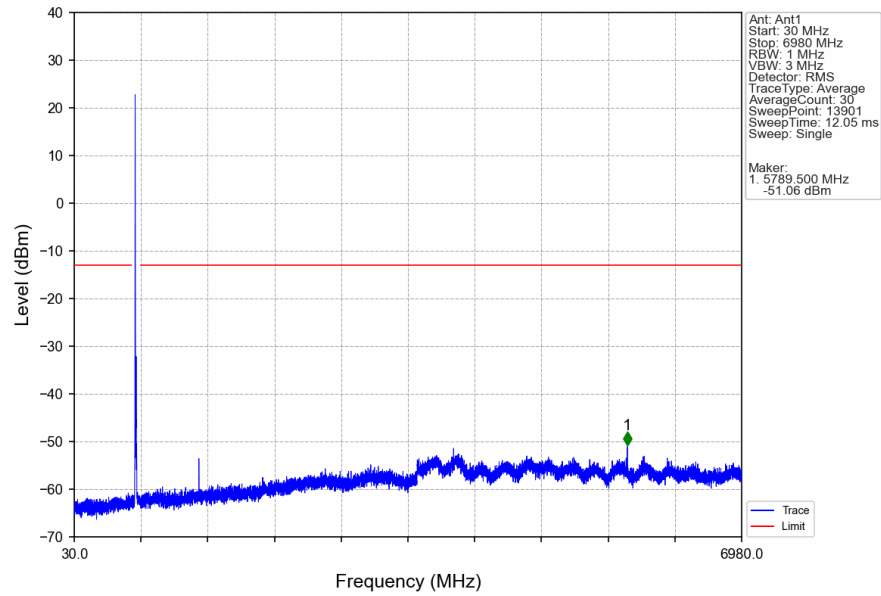


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.015	-40.73	-13	Pass
698.1	713	0.1	CHP	2	698.165	-46.94	-13	Pass

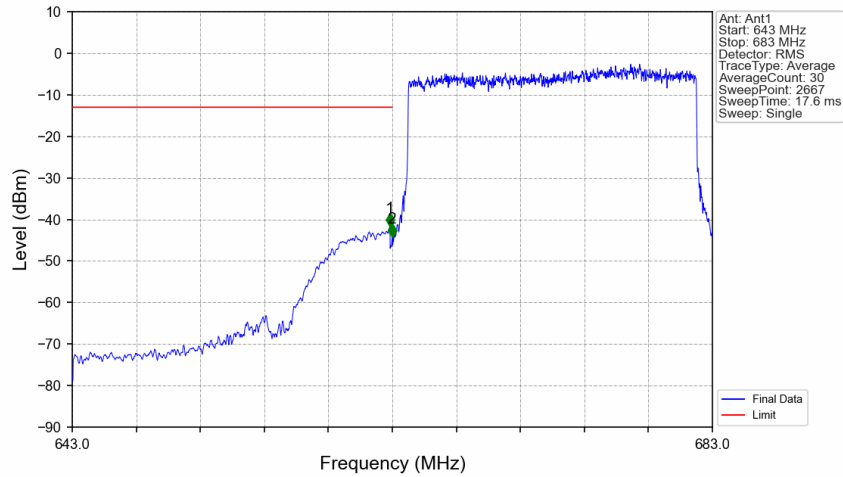


5.2.4 B71_20MHz



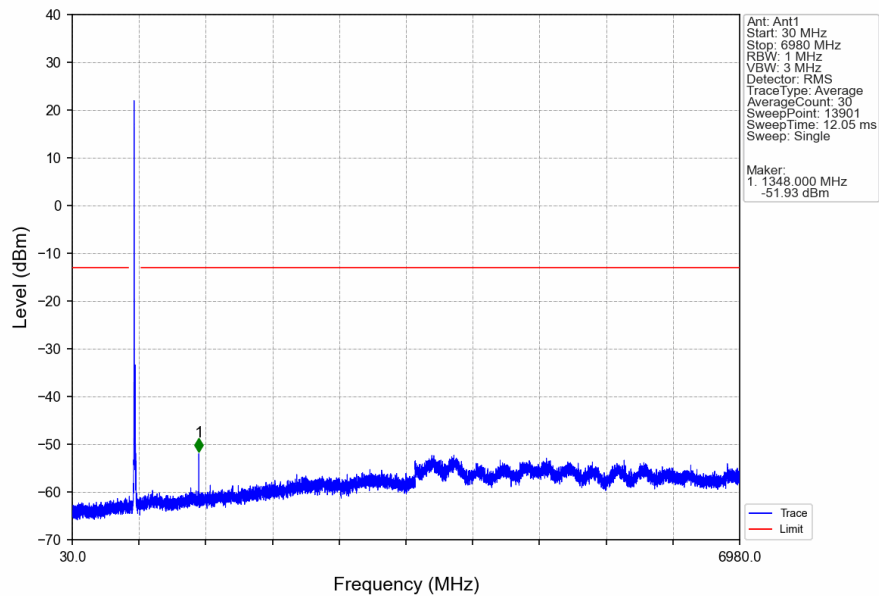


Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV

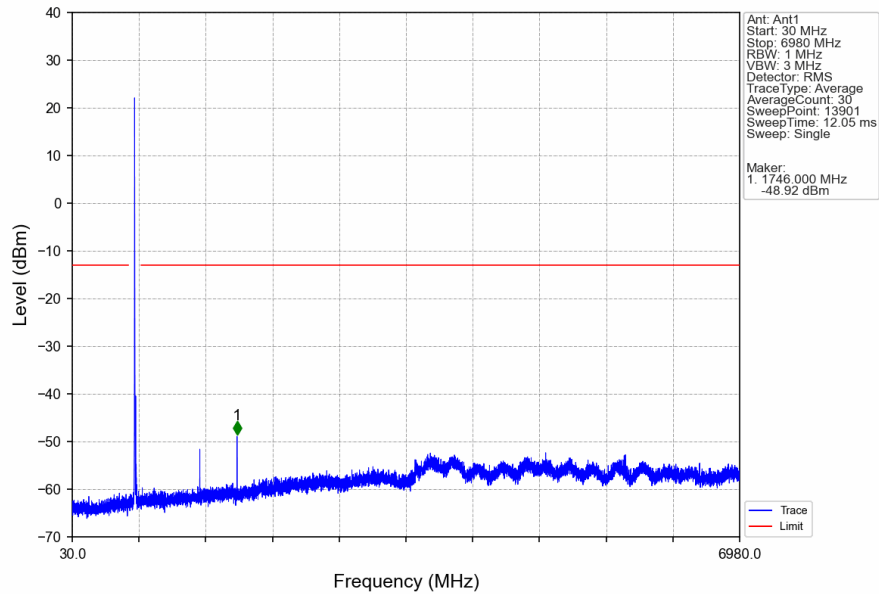


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662.9	0.1	CHP	1	662.850	-41.64	-13	Pass
662.9	663	0.03	/	2	662.985	-44.24	-13	Pass
663	683	0.03	/	/	/	/	/	/

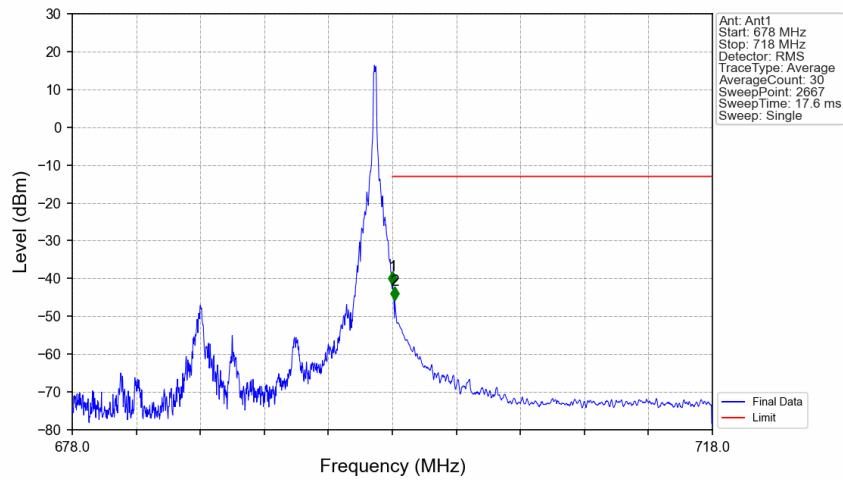
Band71_20MHz_QPSK_MCH_683MHz_RB_1_0_NTNV



Band71_20MHz_QPSK_HCH_688MHz_RB_1_0_NTNV

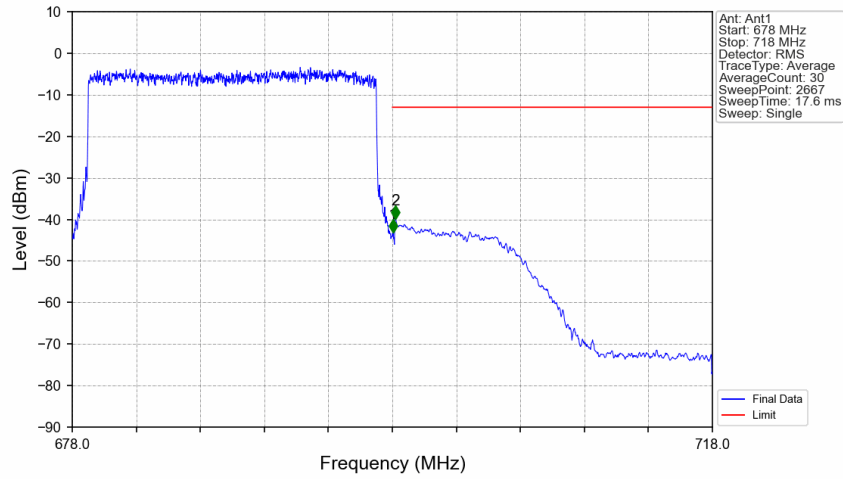


Band71_20MHz_QPSK_HCH_688MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.015	-41.70	-13	Pass
698.1	718	0.1	CHP	2	698.150	-45.58	-13	Pass

Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.045	-43.05	-13	Pass
698.1	718	0.1	CHP	2	698.180	-39.91	-13	Pass



6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B71_10MHz

Band: 71 / Bandwidth: 10MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	680.5	50	0	20	3.27	675.957	685.003	673 to 688	Pass
					3.85	675.968	685.011	673 to 688	Pass
					4.43	675.956	684.989	673 to 688	Pass
				-30	3.85	675.949	685.006	673 to 688	Pass
				-20	3.85	675.968	685.011	673 to 688	Pass
				-10	3.85	675.956	685.022	673 to 688	Pass
				0	3.85	676.000	685.020	673 to 688	Pass
				10	3.85	675.978	685.000	673 to 688	Pass
				30	3.85	675.981	685.017	673 to 688	Pass
				40	3.85	675.950	685.007	673 to 688	Pass
				50	3.85	675.953	685.000	673 to 688	Pass

---End of Attachment---