



Appendix A.20

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	22.86	0.46	21.17	<=34.77	Pass
			13	22.69	0.46	21.00	<=34.77	Pass
			24	22.69	0.46	21.00	<=34.77	Pass
		12	0	21.82	0.46	20.13	<=34.77	Pass
			6	21.85	0.46	20.16	<=34.77	Pass
			13	21.77	0.46	20.08	<=34.77	Pass
		25	0	21.82	0.46	20.13	<=34.77	Pass
	680.5	1	0	22.67	0.46	20.98	<=34.77	Pass
			13	22.78	0.46	21.09	<=34.77	Pass
			24	22.72	0.46	21.03	<=34.77	Pass
		12	0	21.72	0.46	20.03	<=34.77	Pass
			6	21.75	0.46	20.06	<=34.77	Pass
			13	21.78	0.46	20.09	<=34.77	Pass
		25	0	21.71	0.46	20.02	<=34.77	Pass
	695.5	1	0	22.69	0.46	21.00	<=34.77	Pass
			13	22.80	0.46	21.11	<=34.77	Pass
			24	22.73	0.46	21.04	<=34.77	Pass
		12	0	21.71	0.46	20.02	<=34.77	Pass
			6	21.69	0.46	20.00	<=34.77	Pass
			13	21.72	0.46	20.03	<=34.77	Pass
		25	0	21.71	0.46	20.02	<=34.77	Pass
16QAM	665.5	1	0	21.95	0.46	20.26	<=34.77	Pass
			13	22.05	0.46	20.36	<=34.77	Pass
			24	21.90	0.46	20.21	<=34.77	Pass
		12	0	20.92	0.46	19.23	<=34.77	Pass
			6	20.85	0.46	19.16	<=34.77	Pass
			13	20.79	0.46	19.10	<=34.77	Pass
		25	0	20.88	0.46	19.19	<=34.77	Pass
	680.5	1	0	22.03	0.46	20.34	<=34.77	Pass
			13	21.94	0.46	20.25	<=34.77	Pass
			24	21.87	0.46	20.18	<=34.77	Pass
		12	0	20.76	0.46	19.07	<=34.77	Pass
			6	20.80	0.46	19.11	<=34.77	Pass
			13	20.77	0.46	19.08	<=34.77	Pass
		25	0	20.70	0.46	19.01	<=34.77	Pass
	695.5	1	0	22.04	0.46	20.35	<=34.77	Pass
			13	22.17	0.46	20.48	<=34.77	Pass
			24	21.96	0.46	20.27	<=34.77	Pass
		12	0	20.62	0.46	18.93	<=34.77	Pass
			6	20.70	0.46	19.01	<=34.77	Pass
			6	20.70	0.46	19.01	<=34.77	Pass

64QAM	665.5	25	13	20.68	0.46	18.99	<=34.77	Pass
			0	20.63	0.46	18.94	<=34.77	Pass
	665.5	1	0	21.82	0.46	20.13	<=34.77	Pass
			13	21.67	0.46	19.98	<=34.77	Pass
			24	21.88	0.46	20.19	<=34.77	Pass
		12	0	20.85	0.46	19.16	<=34.77	Pass
			6	20.93	0.46	19.24	<=34.77	Pass
			13	20.78	0.46	19.09	<=34.77	Pass
		25	0	20.76	0.46	19.07	<=34.77	Pass
	680.5	1	0	21.81	0.46	20.12	<=34.77	Pass
			13	21.95	0.46	20.26	<=34.77	Pass
			24	21.75	0.46	20.06	<=34.77	Pass
		12	0	20.72	0.46	19.03	<=34.77	Pass
			6	20.75	0.46	19.06	<=34.77	Pass
			13	20.77	0.46	19.08	<=34.77	Pass
		25	0	20.68	0.46	18.99	<=34.77	Pass
	695.5	1	0	21.76	0.46	20.07	<=34.77	Pass
			13	21.33	0.46	19.64	<=34.77	Pass
			24	21.80	0.46	20.11	<=34.77	Pass
		12	0	20.70	0.46	19.01	<=34.77	Pass
			6	20.67	0.46	18.98	<=34.77	Pass
			13	20.72	0.46	19.03	<=34.77	Pass
		25	0	20.67	0.46	18.98	<=34.77	Pass
256QAM	665.5	1	0	16.99	0.46	15.30	<=34.77	Pass
			13	17.91	0.46	16.22	<=34.77	Pass
			24	17.71	0.46	16.02	<=34.77	Pass
		12	0	17.92	0.46	16.23	<=34.77	Pass
			6	17.77	0.46	16.08	<=34.77	Pass
			13	17.83	0.46	16.14	<=34.77	Pass
		25	0	17.79	0.46	16.10	<=34.77	Pass
	680.5	1	0	17.72	0.46	16.03	<=34.77	Pass
			13	17.92	0.46	16.23	<=34.77	Pass
			24	17.84	0.46	16.15	<=34.77	Pass
		12	0	17.69	0.46	16.00	<=34.77	Pass
			6	17.73	0.46	16.04	<=34.77	Pass
			13	17.74	0.46	16.05	<=34.77	Pass
		25	0	17.70	0.46	16.01	<=34.77	Pass
	695.5	1	0	17.73	0.46	16.04	<=34.77	Pass
			13	17.72	0.46	16.03	<=34.77	Pass
			24	17.80	0.46	16.11	<=34.77	Pass
		12	0	17.62	0.46	15.93	<=34.77	Pass
			6	17.71	0.46	16.02	<=34.77	Pass
			13	17.75	0.46	16.06	<=34.77	Pass
		25	0	17.72	0.46	16.03	<=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	22.87	0.46	21.18	<=34.77	Pass
			25	22.68	0.46	20.99	<=34.77	Pass
			49	22.71	0.46	21.02	<=34.77	Pass
		25	0	21.80	0.46	20.11	<=34.77	Pass
			13	21.79	0.46	20.10	<=34.77	Pass
			25	21.73	0.46	20.04	<=34.77	Pass
		50	0	21.76	0.46	20.07	<=34.77	Pass
	680.5	1	0	22.74	0.46	21.05	<=34.77	Pass
			25	22.76	0.46	21.07	<=34.77	Pass
			49	22.68	0.46	20.99	<=34.77	Pass
		25	0	21.73	0.46	20.04	<=34.77	Pass
			13	21.72	0.46	20.03	<=34.77	Pass
			25	21.70	0.46	20.01	<=34.77	Pass
		50	0	21.72	0.46	20.03	<=34.77	Pass
	693	1	0	22.77	0.46	21.08	<=34.77	Pass
			25	22.76	0.46	21.07	<=34.77	Pass
			49	22.60	0.46	20.91	<=34.77	Pass
		25	0	21.66	0.46	19.97	<=34.77	Pass
			13	21.76	0.46	20.07	<=34.77	Pass
			25	21.80	0.46	20.11	<=34.77	Pass
		50	0	21.68	0.46	19.99	<=34.77	Pass
16QAM	668	1	0	21.85	0.46	20.16	<=34.77	Pass
			25	21.83	0.46	20.14	<=34.77	Pass
			49	21.89	0.46	20.20	<=34.77	Pass
		25	0	20.86	0.46	19.17	<=34.77	Pass
			13	20.79	0.46	19.10	<=34.77	Pass
			25	20.74	0.46	19.05	<=34.77	Pass
		50	0	20.73	0.46	19.04	<=34.77	Pass
	680.5	1	0	21.85	0.46	20.16	<=34.77	Pass
			25	21.60	0.46	19.91	<=34.77	Pass
			49	21.94	0.46	20.25	<=34.77	Pass
		25	0	20.80	0.46	19.11	<=34.77	Pass
			13	20.72	0.46	19.03	<=34.77	Pass
			25	20.69	0.46	19.00	<=34.77	Pass
		50	0	20.79	0.46	19.10	<=34.77	Pass
	693	1	0	21.86	0.46	20.17	<=34.77	Pass
			25	21.93	0.46	20.24	<=34.77	Pass
			49	21.84	0.46	20.15	<=34.77	Pass
		25	0	20.72	0.46	19.03	<=34.77	Pass
			13	20.68	0.46	18.99	<=34.77	Pass
			25	20.79	0.46	19.10	<=34.77	Pass
		50	0	20.76	0.46	19.07	<=34.77	Pass
64QAM	668	1	0	21.74	0.46	20.05	<=34.77	Pass
			25	21.69	0.46	20.00	<=34.77	Pass
			49	21.91	0.46	20.22	<=34.77	Pass
		25	0	20.83	0.46	19.14	<=34.77	Pass
			13	20.76	0.46	19.07	<=34.77	Pass
			25	20.79	0.46	19.10	<=34.77	Pass
		50	0	20.71	0.46	19.02	<=34.77	Pass
	680.5	1	0	21.74	0.46	20.05	<=34.77	Pass
			25	22.06	0.46	20.37	<=34.77	Pass
			49	21.57	0.46	19.88	<=34.77	Pass
		25	0	20.69	0.46	19.00	<=34.77	Pass

256QAM	693	50	13	20.78	0.46	19.09	<=34.77	Pass
			25	20.73	0.46	19.04	<=34.77	Pass
			0	20.70	0.46	19.01	<=34.77	Pass
		1	0	21.81	0.46	20.12	<=34.77	Pass
			25	21.77	0.46	20.08	<=34.77	Pass
			49	21.68	0.46	19.99	<=34.77	Pass
		25	0	20.73	0.46	19.04	<=34.77	Pass
			13	20.77	0.46	19.08	<=34.77	Pass
			25	20.81	0.46	19.12	<=34.77	Pass
		50	0	20.66	0.46	18.97	<=34.77	Pass
	668	1	0	17.18	0.46	15.49	<=34.77	Pass
			25	17.83	0.46	16.14	<=34.77	Pass
			49	17.85	0.46	16.16	<=34.77	Pass
		25	0	17.84	0.46	16.15	<=34.77	Pass
			13	17.77	0.46	16.08	<=34.77	Pass
			25	17.79	0.46	16.10	<=34.77	Pass
		50	0	17.82	0.46	16.13	<=34.77	Pass
	680.5	1	0	17.25	0.46	15.56	<=34.77	Pass
			25	17.77	0.46	16.08	<=34.77	Pass
			49	17.91	0.46	16.22	<=34.77	Pass
		25	0	17.75	0.46	16.06	<=34.77	Pass
			13	17.75	0.46	16.06	<=34.77	Pass
			25	17.81	0.46	16.12	<=34.77	Pass
		50	0	17.72	0.46	16.03	<=34.77	Pass
	693	1	0	17.76	0.46	16.07	<=34.77	Pass
			25	17.82	0.46	16.13	<=34.77	Pass
			49	17.65	0.46	15.96	<=34.77	Pass
		25	0	17.74	0.46	16.05	<=34.77	Pass
			13	17.74	0.46	16.05	<=34.77	Pass
			25	17.62	0.46	15.93	<=34.77	Pass
		50	0	17.71	0.46	16.02	<=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	22.75	0.46	21.06	<=34.77	Pass
			38	22.57	0.46	20.88	<=34.77	Pass
			74	22.49	0.46	20.80	<=34.77	Pass
		36	0	21.67	0.46	19.98	<=34.77	Pass
			18	21.65	0.46	19.96	<=34.77	Pass
			39	21.57	0.46	19.88	<=34.77	Pass
		75	0	21.62	0.46	19.93	<=34.77	Pass
	680.5	1	0	22.57	0.46	20.88	<=34.77	Pass
			38	22.64	0.46	20.95	<=34.77	Pass
			74	22.54	0.46	20.85	<=34.77	Pass
		36	0	21.60	0.46	19.91	<=34.77	Pass
			18	21.58	0.46	19.89	<=34.77	Pass
			39	21.59	0.46	19.90	<=34.77	Pass

	690.5	75	0	21.62	0.46	19.93	<=34.77	Pass
		1	0	22.57	0.46	20.88	<=34.77	Pass
			38	22.24	0.46	20.55	<=34.77	Pass
			74	22.53	0.46	20.84	<=34.77	Pass
		36	0	21.56	0.46	19.87	<=34.77	Pass
			18	21.60	0.46	19.91	<=34.77	Pass
			39	21.57	0.46	19.88	<=34.77	Pass
		75	0	21.55	0.46	19.86	<=34.77	Pass
16QAM	670.5	1	0	21.85	0.46	20.16	<=34.77	Pass
			38	21.67	0.46	19.98	<=34.77	Pass
			74	21.33	0.46	19.64	<=34.77	Pass
		36	0	20.67	0.46	18.98	<=34.77	Pass
			18	20.65	0.46	18.96	<=34.77	Pass
			39	20.44	0.46	18.75	<=34.77	Pass
		75	0	20.59	0.46	18.90	<=34.77	Pass
	680.5	1	0	21.89	0.46	20.20	<=34.77	Pass
			38	21.51	0.46	19.82	<=34.77	Pass
			74	21.88	0.46	20.19	<=34.77	Pass
		36	0	20.56	0.46	18.87	<=34.77	Pass
			18	20.53	0.46	18.84	<=34.77	Pass
			39	20.54	0.46	18.85	<=34.77	Pass
		75	0	20.59	0.46	18.90	<=34.77	Pass
	690.5	1	0	21.82	0.46	20.13	<=34.77	Pass
			38	21.75	0.46	20.06	<=34.77	Pass
			74	21.67	0.46	19.98	<=34.77	Pass
		36	0	20.54	0.46	18.85	<=34.77	Pass
			18	20.59	0.46	18.90	<=34.77	Pass
			39	20.49	0.46	18.80	<=34.77	Pass
		75	0	20.53	0.46	18.84	<=34.77	Pass
64QAM	670.5	1	0	21.69	0.46	20.00	<=34.77	Pass
			38	21.68	0.46	19.99	<=34.77	Pass
			74	21.50	0.46	19.81	<=34.77	Pass
		36	0	20.55	0.46	18.86	<=34.77	Pass
			18	20.72	0.46	19.03	<=34.77	Pass
			39	20.53	0.46	18.84	<=34.77	Pass
		75	0	20.57	0.46	18.88	<=34.77	Pass
	680.5	1	0	21.66	0.46	19.97	<=34.77	Pass
			38	21.53	0.46	19.84	<=34.77	Pass
			74	21.56	0.46	19.87	<=34.77	Pass
		36	0	20.57	0.46	18.88	<=34.77	Pass
			18	20.52	0.46	18.83	<=34.77	Pass
			39	20.68	0.46	18.99	<=34.77	Pass
		75	0	20.50	0.46	18.81	<=34.77	Pass
	690.5	1	0	21.68	0.46	19.99	<=34.77	Pass
			38	21.51	0.46	19.82	<=34.77	Pass
			74	21.46	0.46	19.77	<=34.77	Pass
		36	0	20.58	0.46	18.89	<=34.77	Pass
			18	20.49	0.46	18.80	<=34.77	Pass
			39	20.56	0.46	18.87	<=34.77	Pass
		75	0	20.54	0.46	18.85	<=34.77	Pass
256QAM	670.5	1	0	17.69	0.46	16.00	<=34.77	Pass
			38	17.39	0.46	15.70	<=34.77	Pass
			74	17.68	0.46	15.99	<=34.77	Pass

	680.5	36	0	17.17	0.46	15.48	<=34.77	Pass
			18	17.63	0.46	15.94	<=34.77	Pass
			39	17.63	0.46	15.94	<=34.77	Pass
		75	0	17.65	0.46	15.96	<=34.77	Pass
			0	17.61	0.46	15.92	<=34.77	Pass
			38	17.60	0.46	15.91	<=34.77	Pass
		1	74	18.00	0.46	16.31	<=34.77	Pass
			0	17.64	0.46	15.95	<=34.77	Pass
			18	17.58	0.46	15.89	<=34.77	Pass
	690.5	36	39	17.58	0.46	15.89	<=34.77	Pass
			0	17.60	0.46	15.91	<=34.77	Pass
			74	17.67	0.46	15.98	<=34.77	Pass
		75	0	17.98	0.46	16.29	<=34.77	Pass
			38	17.67	0.46	15.98	<=34.77	Pass
			74	17.67	0.46	15.98	<=34.77	Pass
		1	0	17.60	0.46	15.91	<=34.77	Pass
			18	17.54	0.46	15.85	<=34.77	Pass
			39	17.64	0.46	15.95	<=34.77	Pass
		75	0	17.58	0.46	15.89	<=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	22.25	0.46	20.56	<=34.77	Pass
			50	22.57	0.46	20.88	<=34.77	Pass
			99	22.46	0.46	20.77	<=34.77	Pass
		50	0	21.68	0.46	19.99	<=34.77	Pass
			25	21.68	0.46	19.99	<=34.77	Pass
			50	21.59	0.46	19.90	<=34.77	Pass
		100	0	21.63	0.46	19.94	<=34.77	Pass
			0	22.67	0.46	20.98	<=34.77	Pass
			50	22.53	0.46	20.84	<=34.77	Pass
	683	1	99	22.47	0.46	20.78	<=34.77	Pass
			0	21.62	0.46	19.93	<=34.77	Pass
			25	21.59	0.46	19.90	<=34.77	Pass
		50	50	21.52	0.46	19.83	<=34.77	Pass
			0	21.57	0.46	19.88	<=34.77	Pass
			0	21.57	0.46	19.88	<=34.77	Pass
		100	0	22.37	0.46	20.68	<=34.77	Pass
			50	22.63	0.46	20.94	<=34.77	Pass
			99	22.54	0.46	20.85	<=34.77	Pass
	688	1	0	21.60	0.46	19.91	<=34.77	Pass
			25	21.66	0.46	19.97	<=34.77	Pass
			50	21.60	0.46	19.91	<=34.77	Pass
		50	0	21.62	0.46	19.93	<=34.77	Pass
			0	21.77	0.46	20.08	<=34.77	Pass
			50	21.86	0.46	20.17	<=34.77	Pass
		1	99	21.70	0.46	20.01	<=34.77	Pass
			0	20.64	0.46	18.95	<=34.77	Pass
			25	20.66	0.46	18.97	<=34.77	Pass

	683	100		50	20.57	0.46	18.88	<=34.77	Pass	
				0	20.67	0.46	18.98	<=34.77	Pass	
		50	1		0	21.20	0.46	19.51	<=34.77	Pass
					50	21.58	0.46	19.89	<=34.77	Pass
					99	21.65	0.46	19.96	<=34.77	Pass
			50		0	20.60	0.46	18.91	<=34.77	Pass
					25	20.47	0.46	18.78	<=34.77	Pass
					50	20.64	0.46	18.95	<=34.77	Pass
		100		0	20.56	0.46	18.87	<=34.77	Pass	
	688	1		0	21.53	0.46	19.84	<=34.77	Pass	
				50	21.94	0.46	20.25	<=34.77	Pass	
				99	21.63	0.46	19.94	<=34.77	Pass	
		50		0	20.59	0.46	18.90	<=34.77	Pass	
				25	20.74	0.46	19.05	<=34.77	Pass	
				50	20.41	0.46	18.72	<=34.77	Pass	
100			0	20.59	0.46	18.90	<=34.77	Pass		
64QAM	673	1		0	21.60	0.46	19.91	<=34.77	Pass	
				50	21.53	0.46	19.84	<=34.77	Pass	
				99	21.39	0.46	19.70	<=34.77	Pass	
		50		0	20.59	0.46	18.90	<=34.77	Pass	
				25	20.67	0.46	18.98	<=34.77	Pass	
				50	20.47	0.46	18.78	<=34.77	Pass	
		100		0	20.60	0.46	18.91	<=34.77	Pass	
	683	1		0	21.50	0.46	19.81	<=34.77	Pass	
				50	21.68	0.46	19.99	<=34.77	Pass	
				99	21.49	0.46	19.80	<=34.77	Pass	
		50		0	20.64	0.46	18.95	<=34.77	Pass	
				25	20.65	0.46	18.96	<=34.77	Pass	
				50	20.45	0.46	18.76	<=34.77	Pass	
		100		0	20.64	0.46	18.95	<=34.77	Pass	
	688	1		0	21.40	0.46	19.71	<=34.77	Pass	
			50	21.50	0.46	19.81	<=34.77	Pass		
			99	21.02	0.46	19.33	<=34.77	Pass		
50			0	20.53	0.46	18.84	<=34.77	Pass		
			25	20.70	0.46	19.01	<=34.77	Pass		
			50	20.51	0.46	18.82	<=34.77	Pass		
100			0	20.65	0.46	18.96	<=34.77	Pass		
256QAM	673	1		0	17.32	0.46	15.63	<=34.77	Pass	
				50	17.82	0.46	16.13	<=34.77	Pass	
				99	17.59	0.46	15.90	<=34.77	Pass	
		50		0	17.45	0.46	15.76	<=34.77	Pass	
				25	17.66	0.46	15.97	<=34.77	Pass	
				50	17.54	0.46	15.85	<=34.77	Pass	
	100		0	17.72	0.46	16.03	<=34.77	Pass		
	683	1		0	17.49	0.46	15.80	<=34.77	Pass	
				50	17.69	0.46	16.00	<=34.77	Pass	
				99	16.83	0.46	15.14	<=34.77	Pass	
		50		0	18.02	0.46	16.33	<=34.77	Pass	
				25	17.51	0.46	15.82	<=34.77	Pass	
				50	17.55	0.46	15.86	<=34.77	Pass	
	100		0	17.58	0.46	15.89	<=34.77	Pass		
	688	1		0	17.71	0.46	16.02	<=34.77	Pass	
			50	17.69	0.46	16.00	<=34.77	Pass		



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			99	17.57	0.46	15.88	<=34.77	Pass
		50	0	18.00	0.46	16.31	<=34.77	Pass
			25	17.57	0.46	15.88	<=34.77	Pass
			50	17.59	0.46	15.90	<=34.77	Pass
		100	0	17.63	0.46	15.94	<=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	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	680.5	50	0	20	LV	0.690	0.0010	-2.5 to 2.5	Pass
					NV	0.674	0.0010	-2.5 to 2.5	Pass
					HV	-0.288	-0.0004	-2.5 to 2.5	Pass
				-30	NV	-0.641	-0.0009	-2.5 to 2.5	Pass
				-20	NV	0.570	0.0008	-2.5 to 2.5	Pass
				-10	NV	0.071	0.0001	-2.5 to 2.5	Pass
				0	NV	0.114	0.0002	-2.5 to 2.5	Pass
				10	NV	-0.414	-0.0006	-2.5 to 2.5	Pass
				30	NV	0.318	0.0005	-2.5 to 2.5	Pass
				40	NV	-0.003	0.0000	-2.5 to 2.5	Pass
				50	NV	0.036	0.0001	-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	4.528	/	Pass
	16QAM	680.5	25	0	4.525	/	Pass
	64QAM	680.5	25	0	4.534	/	Pass
	256QAM	680.5	25	0	4.536	/	Pass
10	QPSK	680.5	50	0	8.962	/	Pass
	16QAM	680.5	50	0	8.958	/	Pass
	64QAM	680.5	50	0	8.940	/	Pass
	256QAM	680.5	50	0	8.964	/	Pass
15	QPSK	680.5	75	0	13.444	/	Pass
	16QAM	680.5	75	0	13.465	/	Pass



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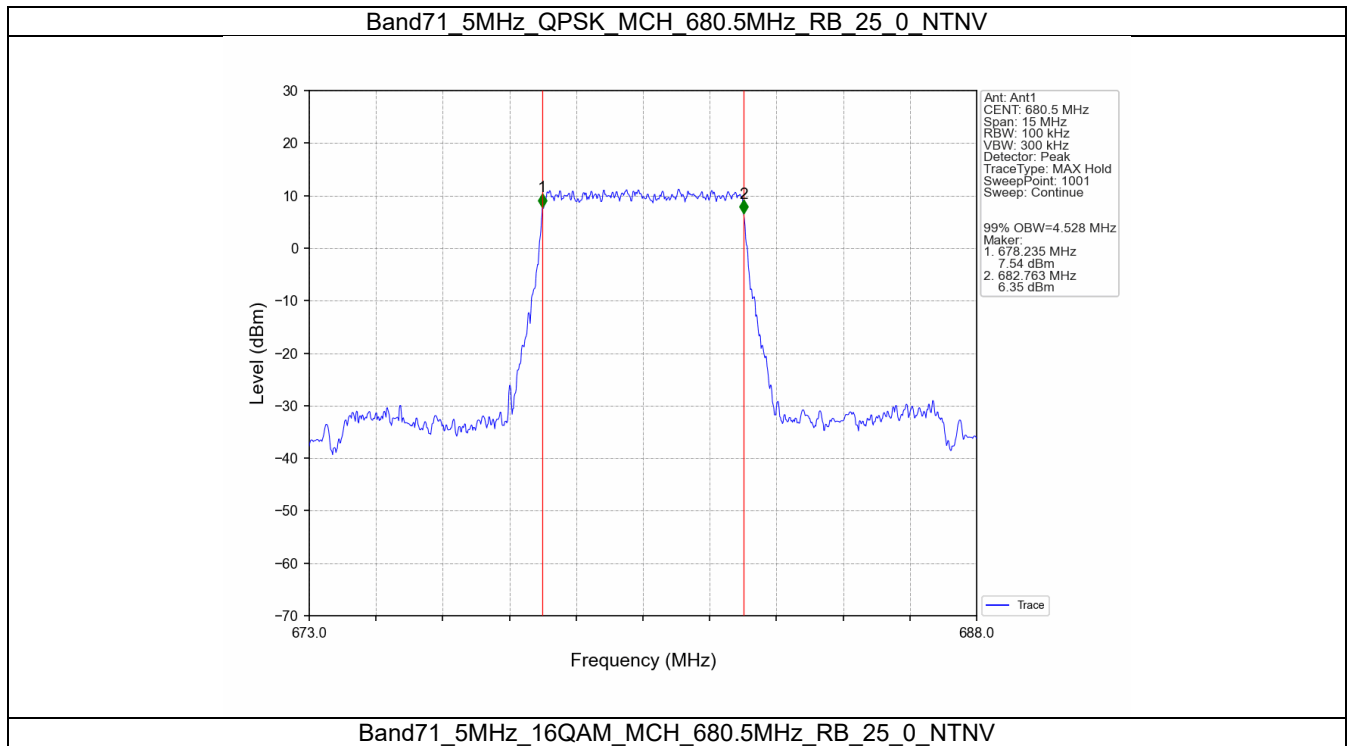
20	64QAM	680.5	75	0	13.442	/	Pass
	256QAM	680.5	75	0	13.413	/	Pass
	QPSK	683	100	0	17.849	/	Pass
	16QAM	683	100	0	17.915	/	Pass
	64QAM	683	100	0	17.854	/	Pass
	256QAM	683	100	0	17.907	/	Pass

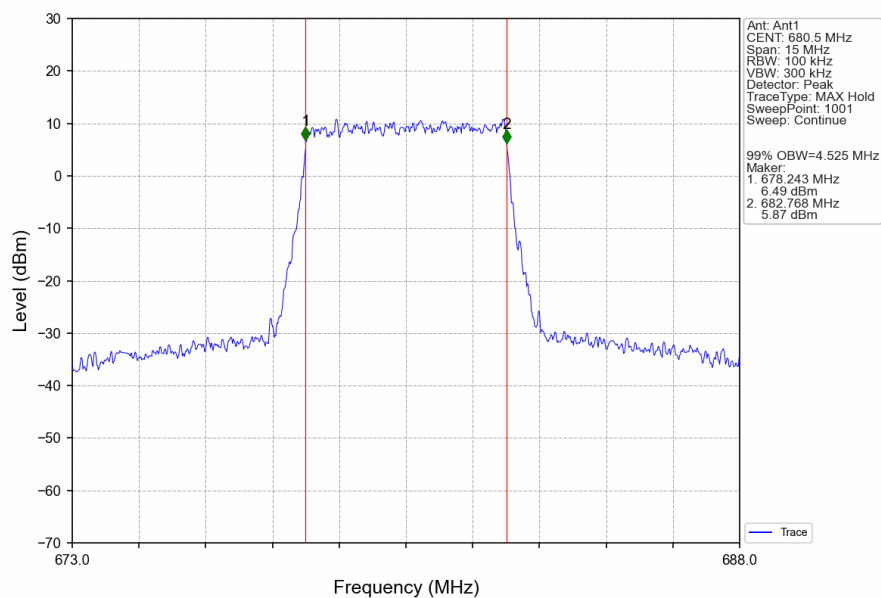
3.1.2 Band71_XDB

Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	680.5	25	0	5.181	/	Pass
	16QAM	680.5	25	0	5.163	/	Pass
	64QAM	680.5	25	0	5.149	/	Pass
	256QAM	680.5	25	0	5.160	/	Pass
10	QPSK	680.5	50	0	9.799	/	Pass
	16QAM	680.5	50	0	9.810	/	Pass
	64QAM	680.5	50	0	9.729	/	Pass
	256QAM	680.5	50	0	9.744	/	Pass
15	QPSK	680.5	75	0	14.755	/	Pass
	16QAM	680.5	75	0	14.804	/	Pass
	64QAM	680.5	75	0	14.709	/	Pass
	256QAM	680.5	75	0	14.660	/	Pass
20	QPSK	683	100	0	19.128	/	Pass
	16QAM	683	100	0	19.259	/	Pass
	64QAM	683	100	0	19.285	/	Pass
	256QAM	683	100	0	19.263	/	Pass

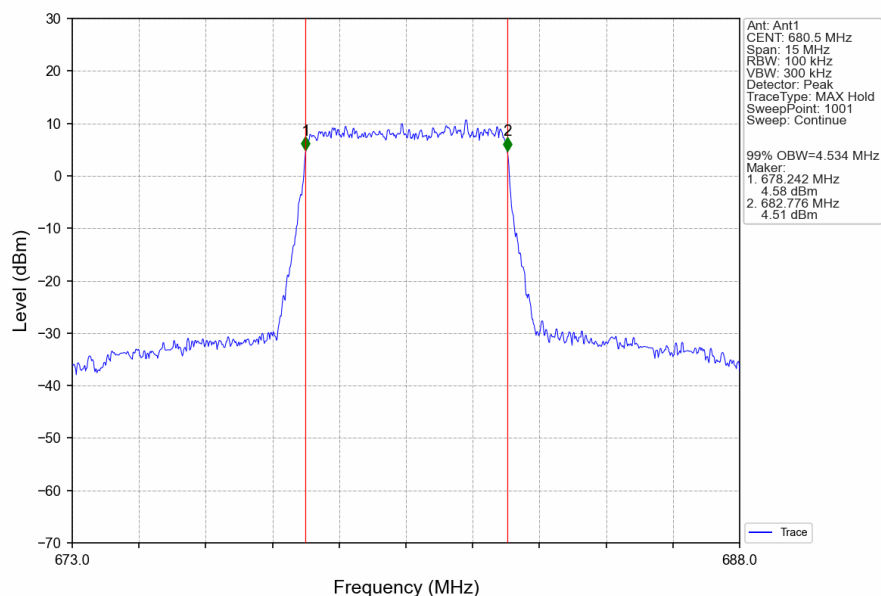
3.2 Test Graph

3.2.1 Band71_OBW

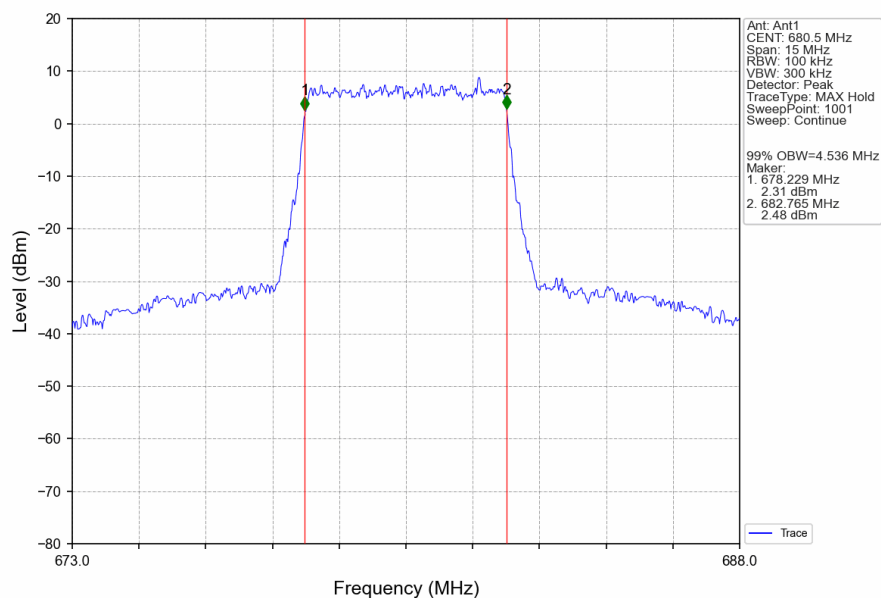




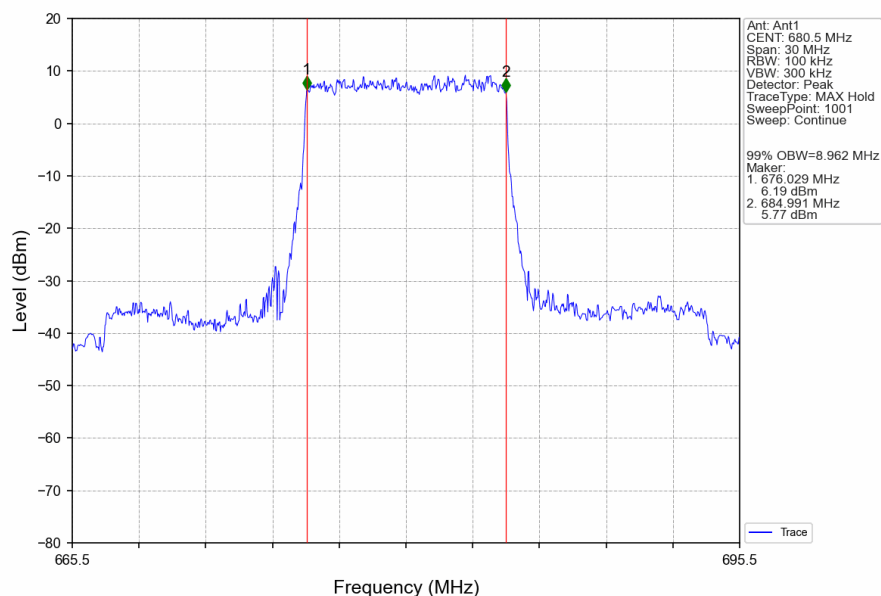
Band71_5MHz_64QAM_MCH_680.5MHz_RB_25_0_NTNV



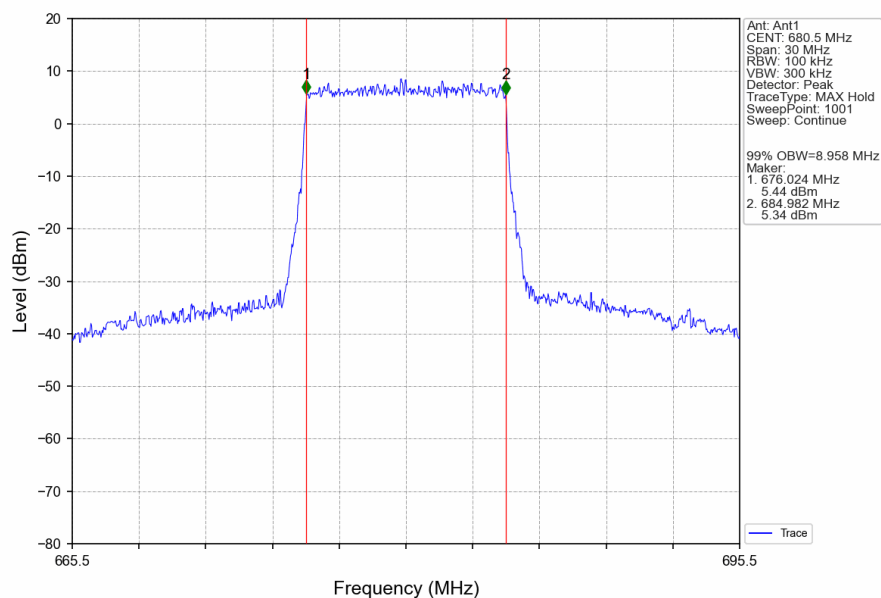
Band71_5MHz_256QAM_MCH_680.5MHz_RB_25_0_NTNV



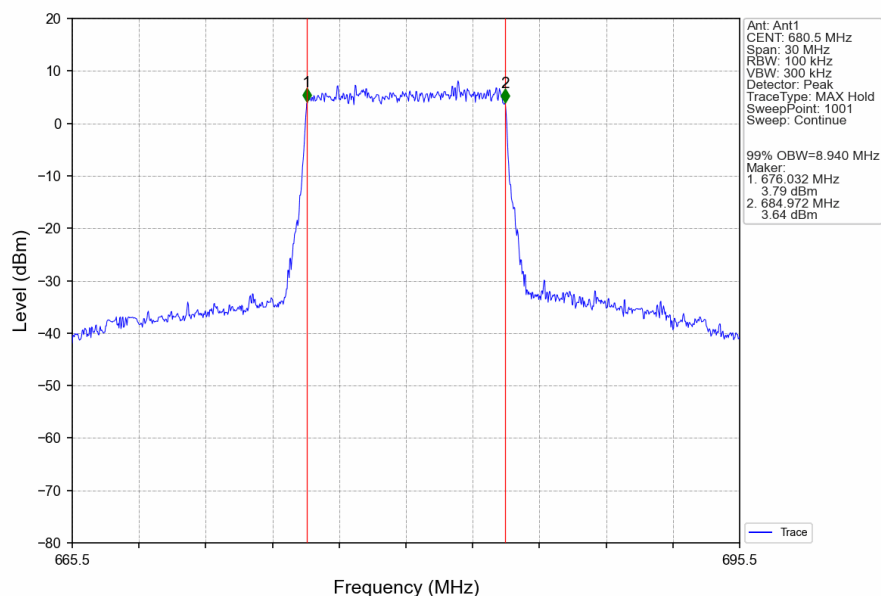
Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



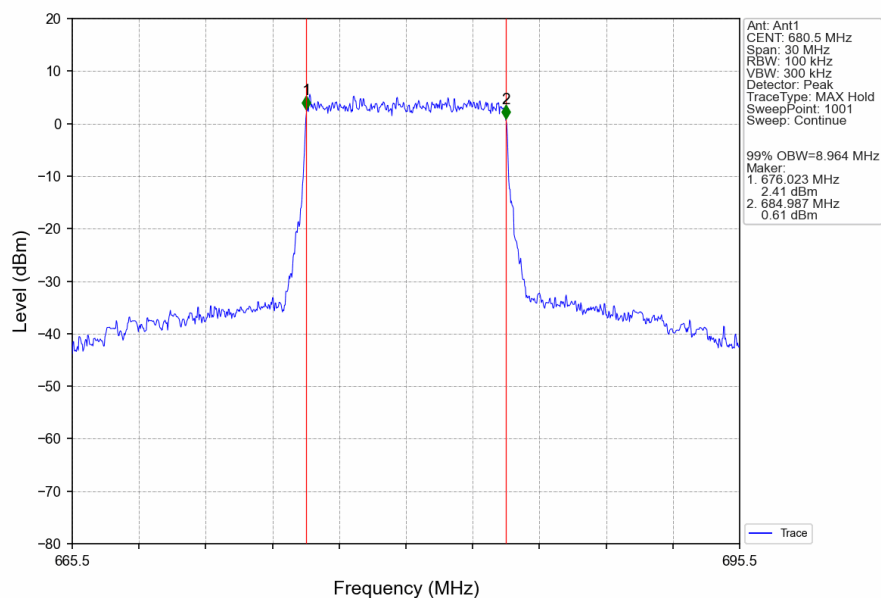
Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



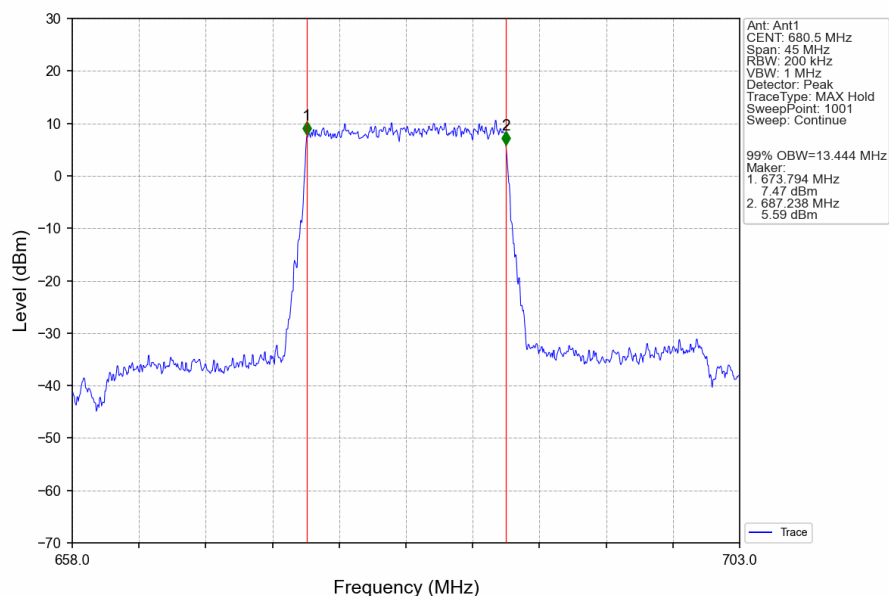
Band71_10MHz_64QAM_MCH_680.5MHz_RB_50_0_NTNV



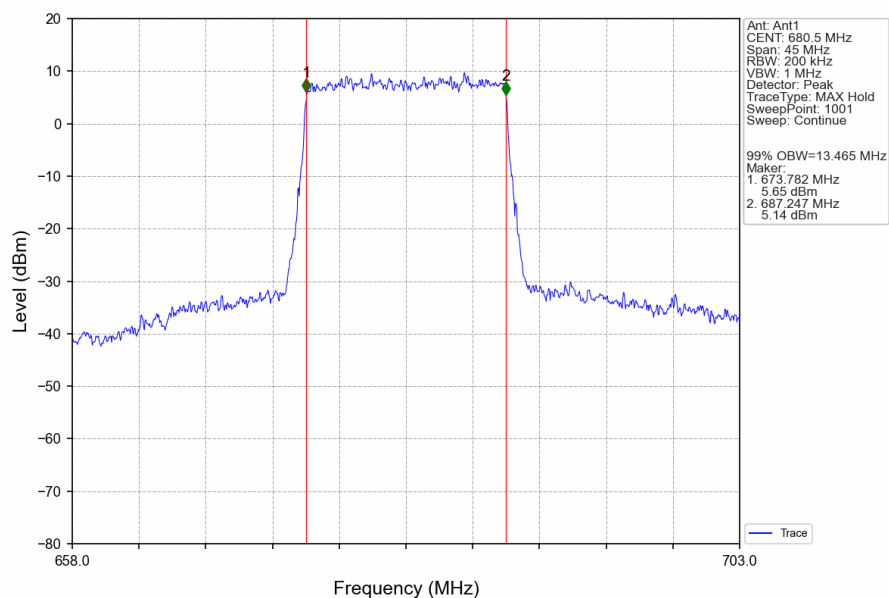
Band71_10MHz_256QAM_MCH_680.5MHz_RB_50_0_NTNV



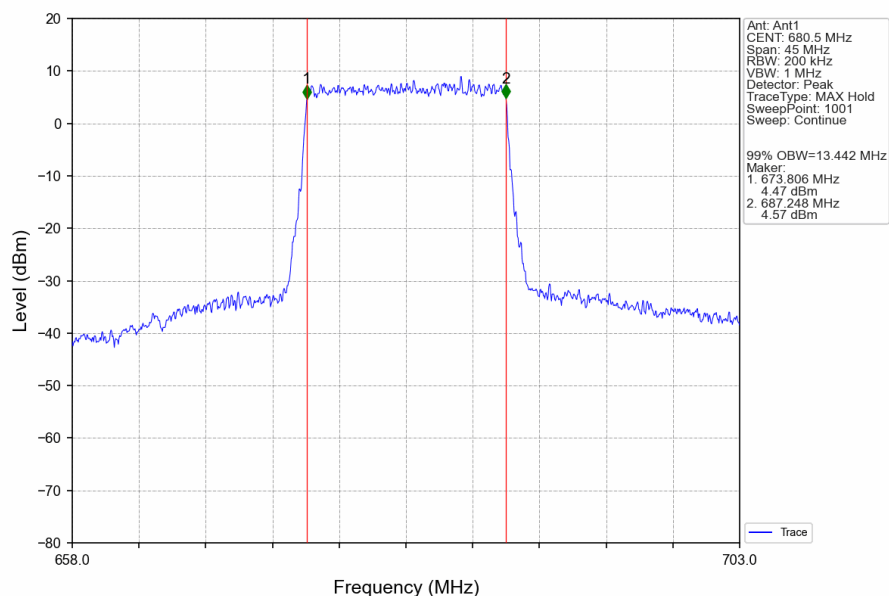
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



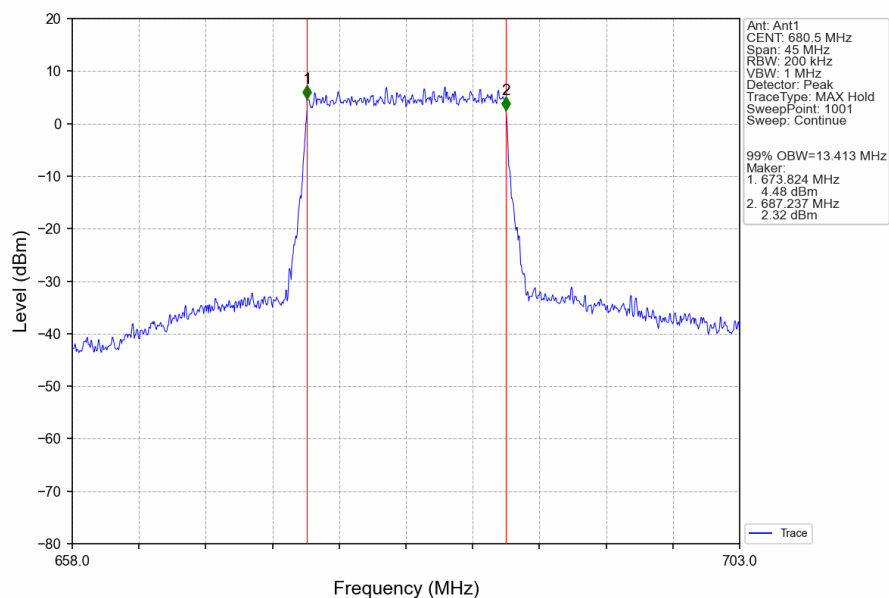
Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



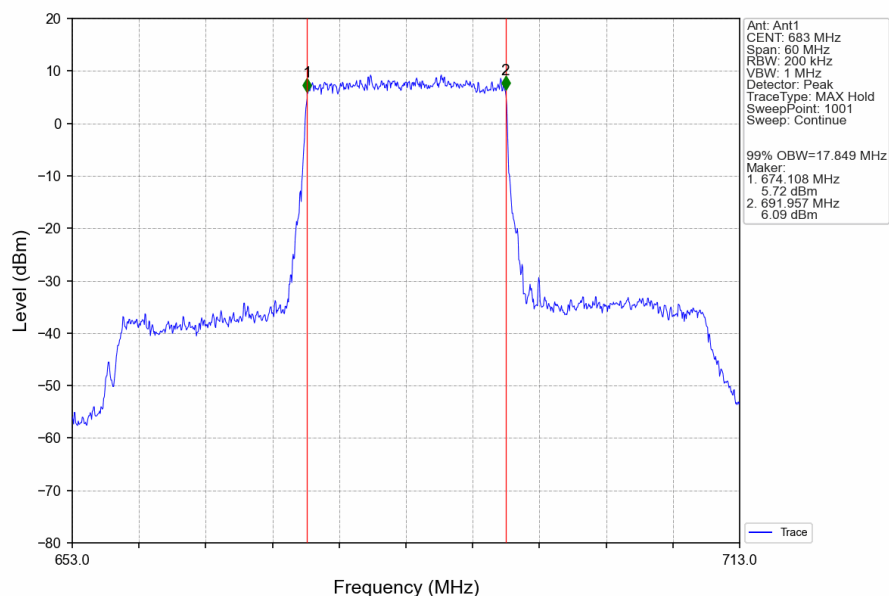
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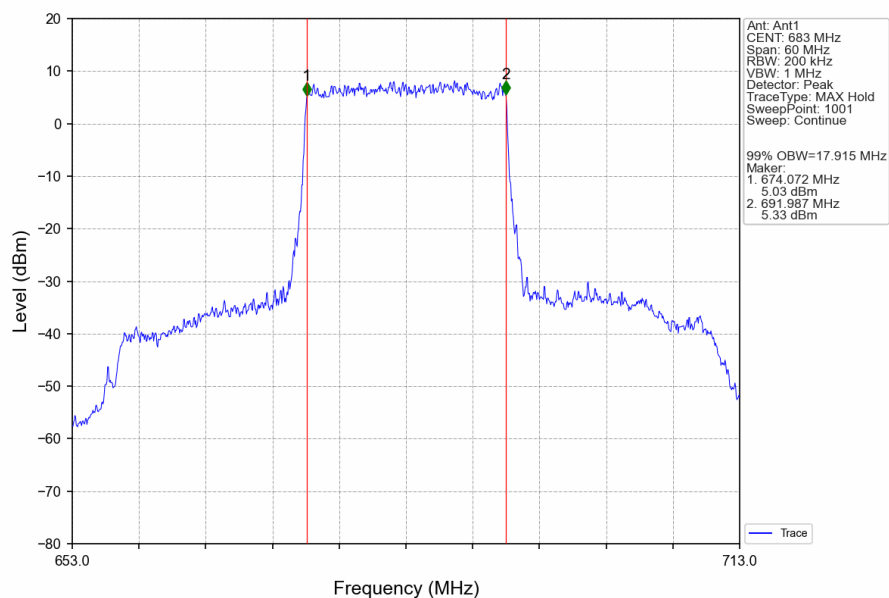
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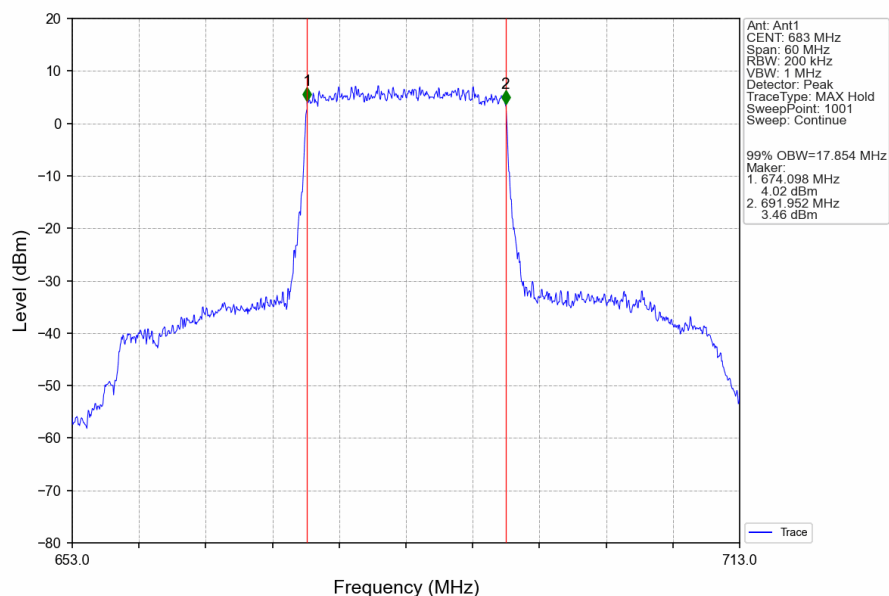
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



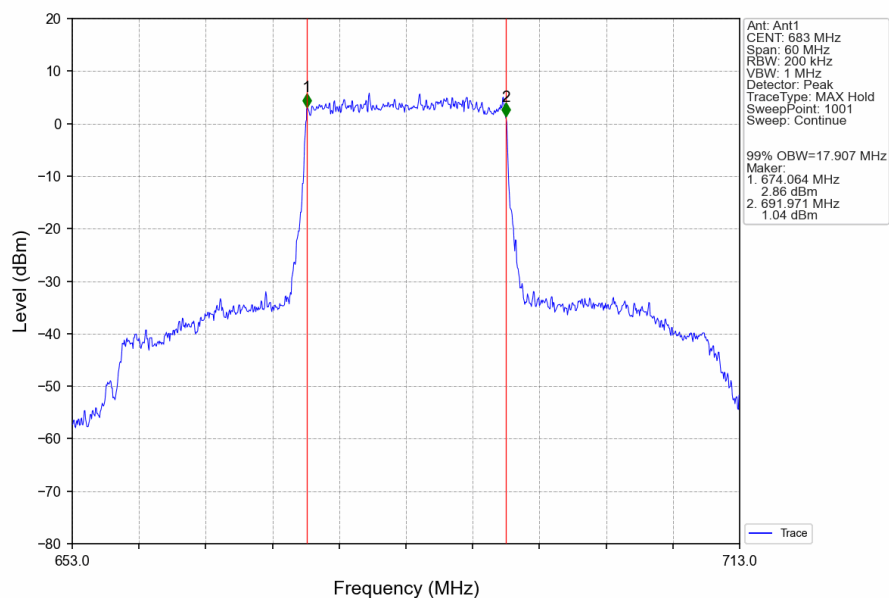
Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



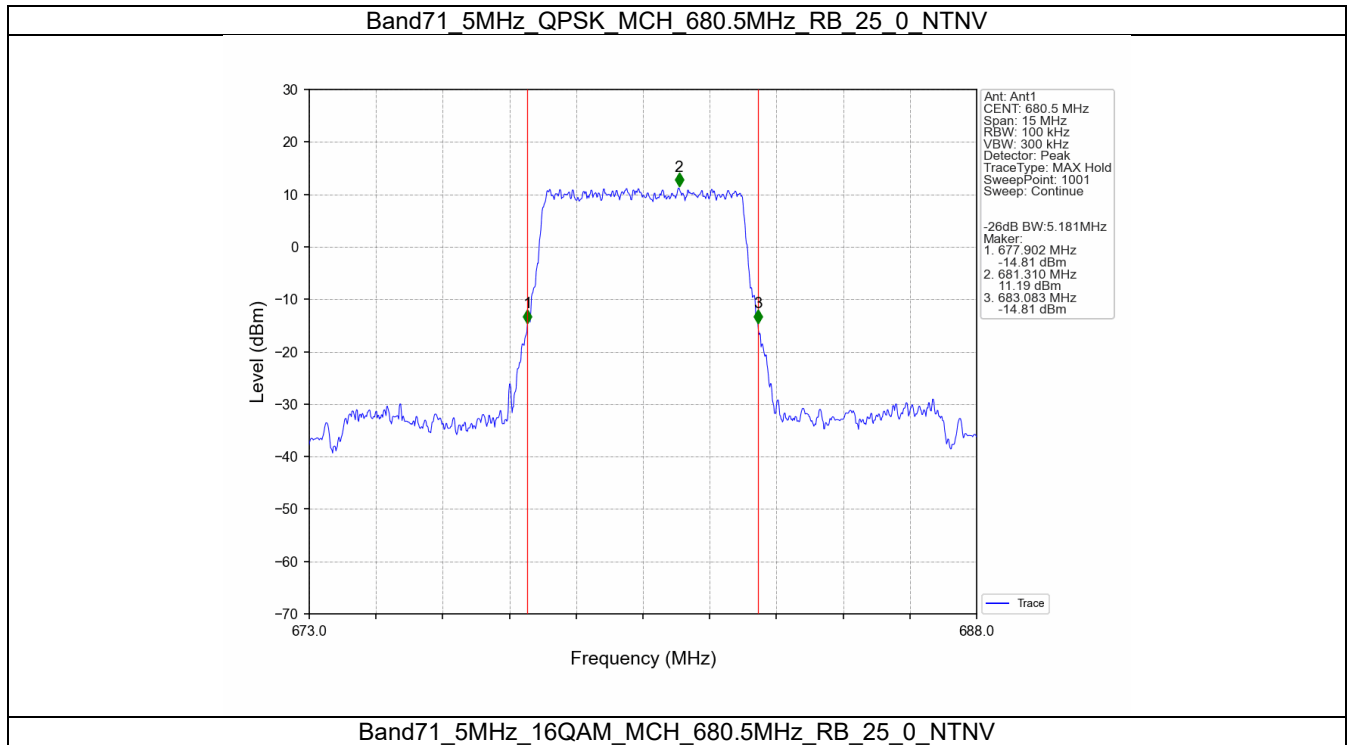
Band71_20MHz_64QAM_MCH_683MHz_RB_100_0_NTNV

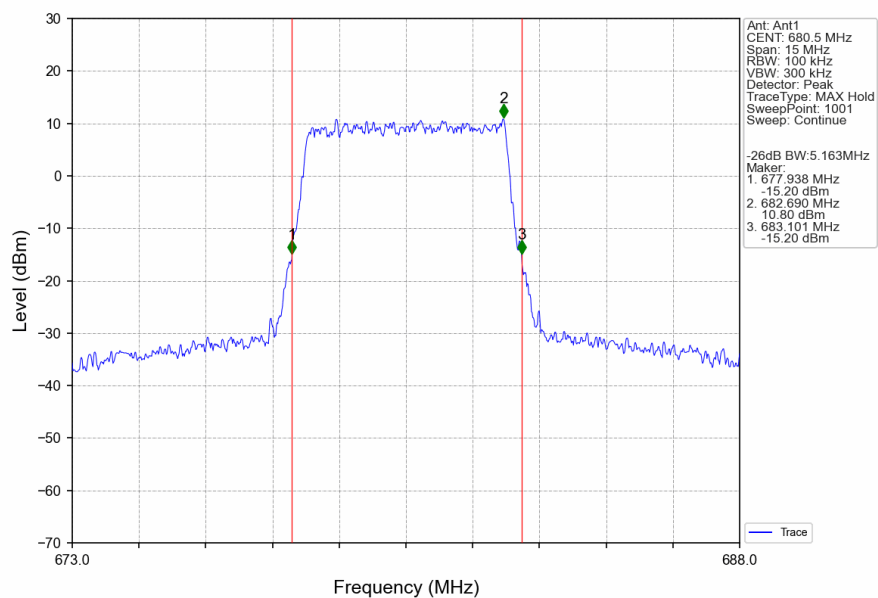


Band71_20MHz_256QAM_MCH_683MHz_RB_100_0_NTNV

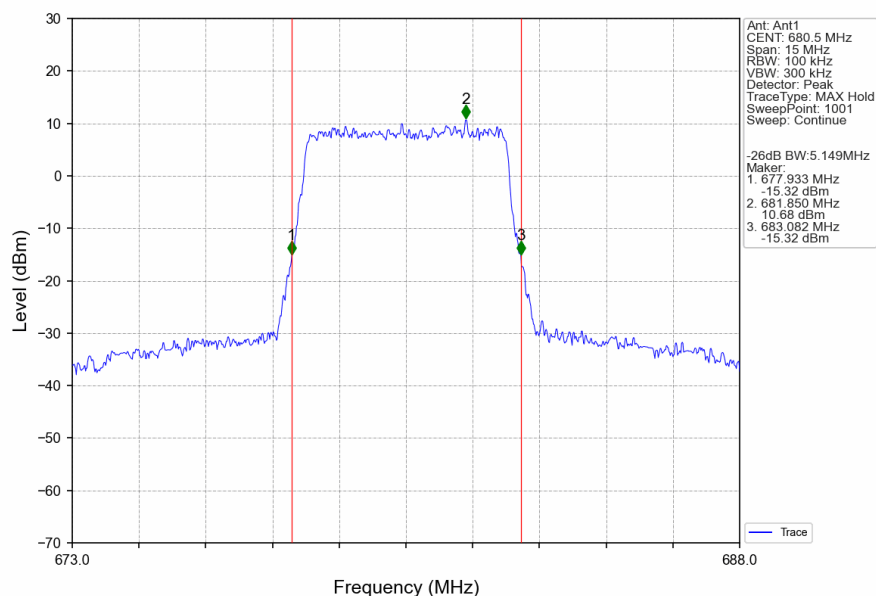


3.2.2 Band71_XDB

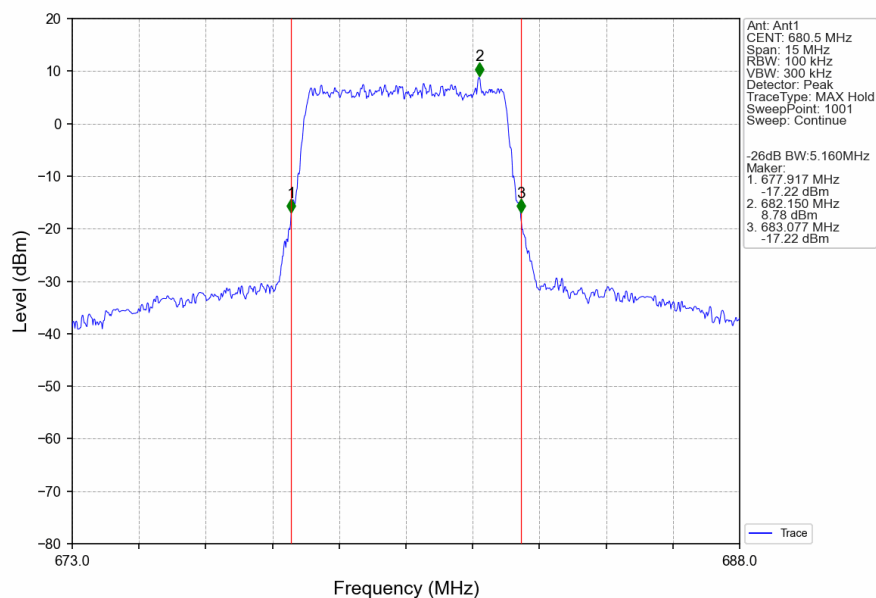




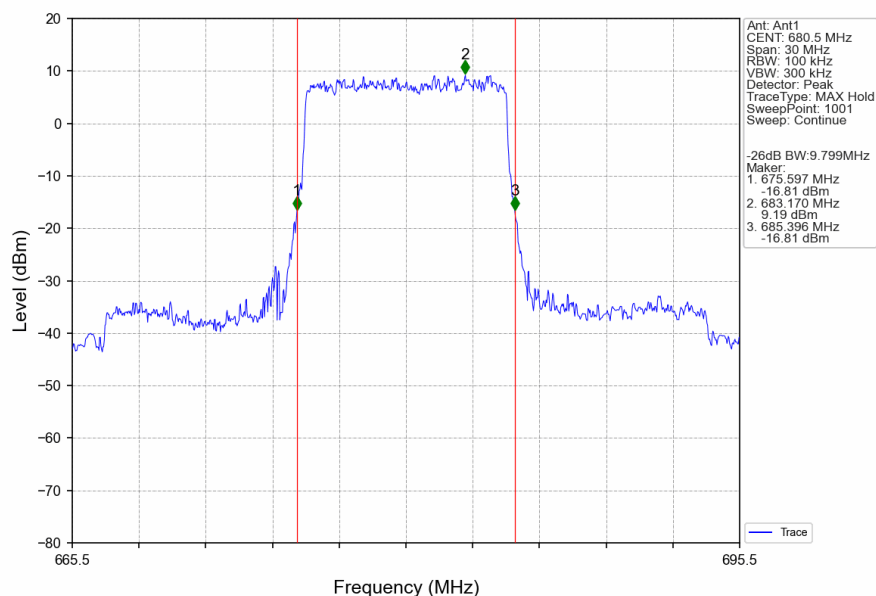
Band71_5MHz_64QAM_MCH_680.5MHz_RB_25_0_NTNV



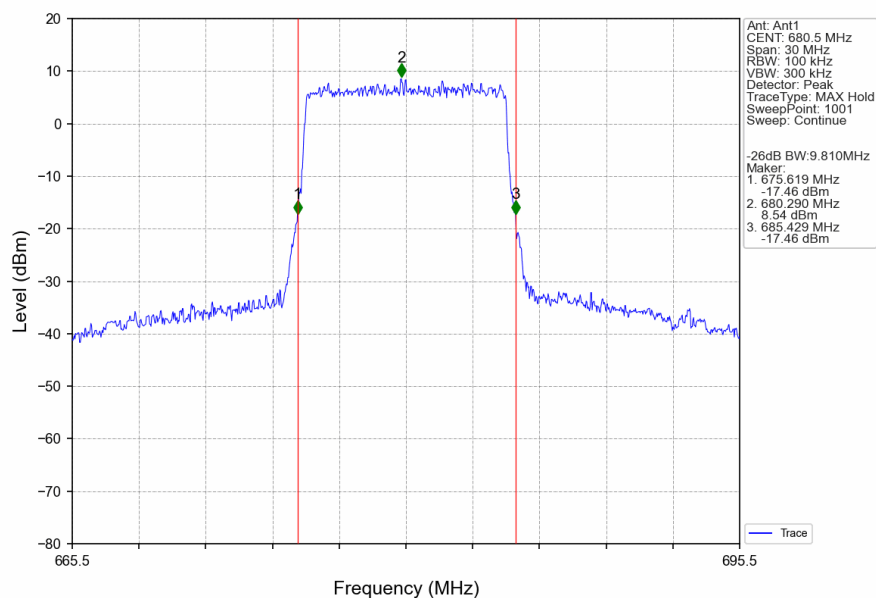
Band71_5MHz_256QAM_MCH_680.5MHz_RB_25_0_NTNV



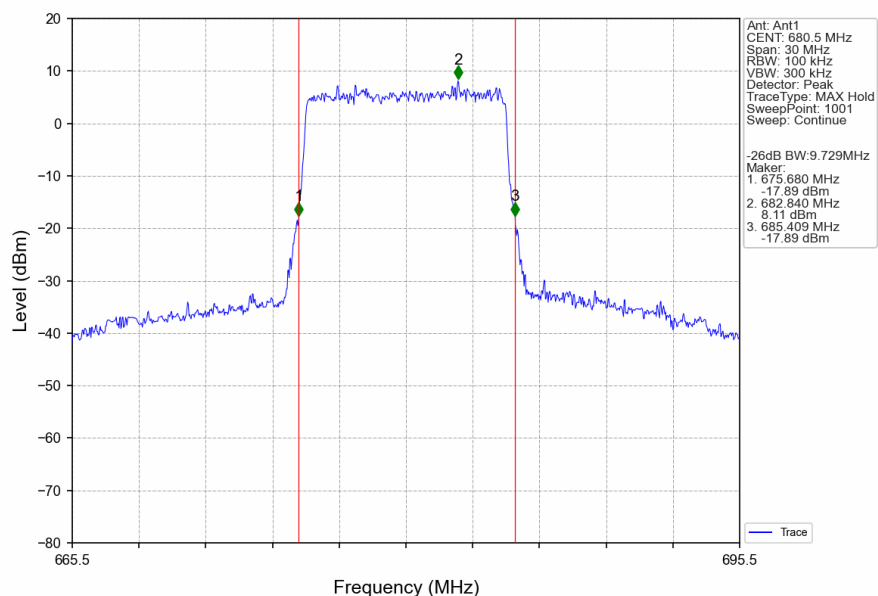
Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



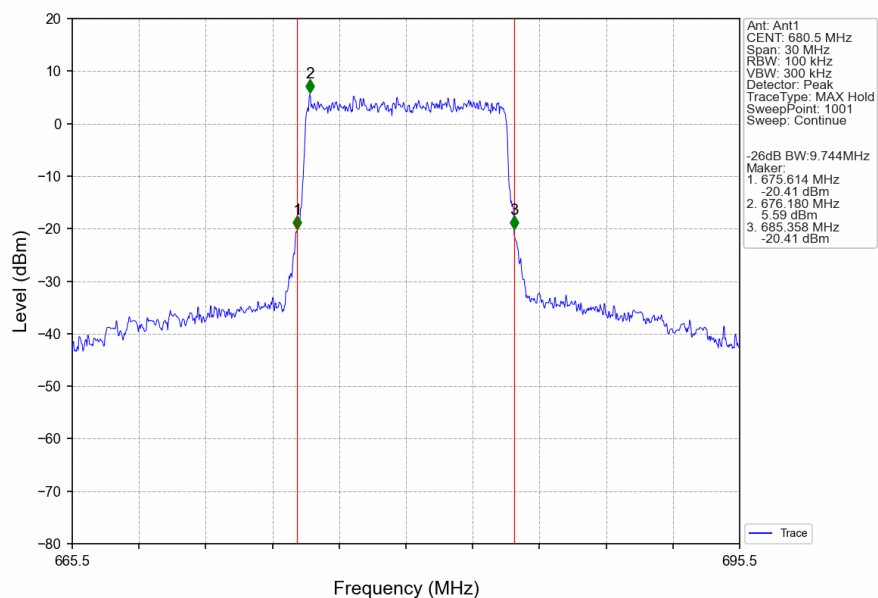
Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



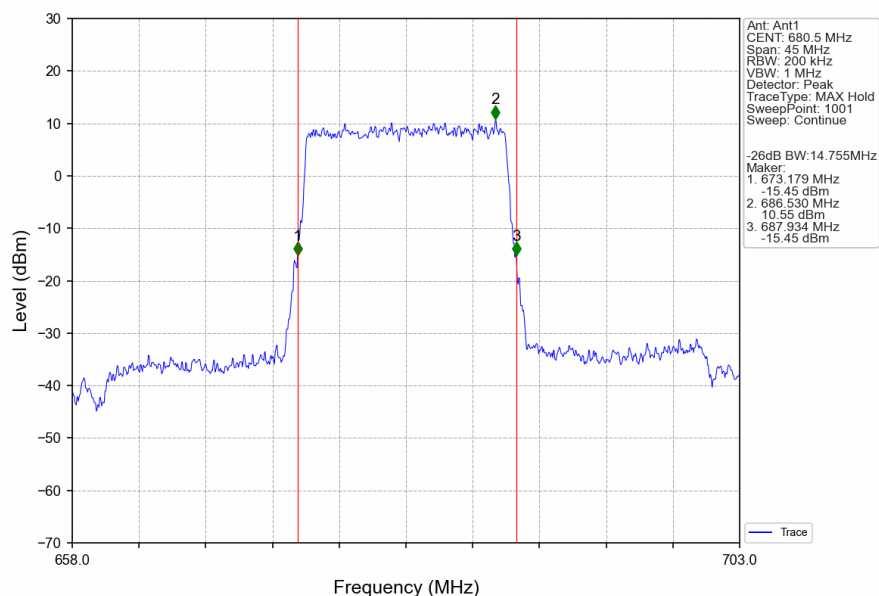
Band71_10MHz_64QAM_MCH_680.5MHz_RB_50_0_NTNV



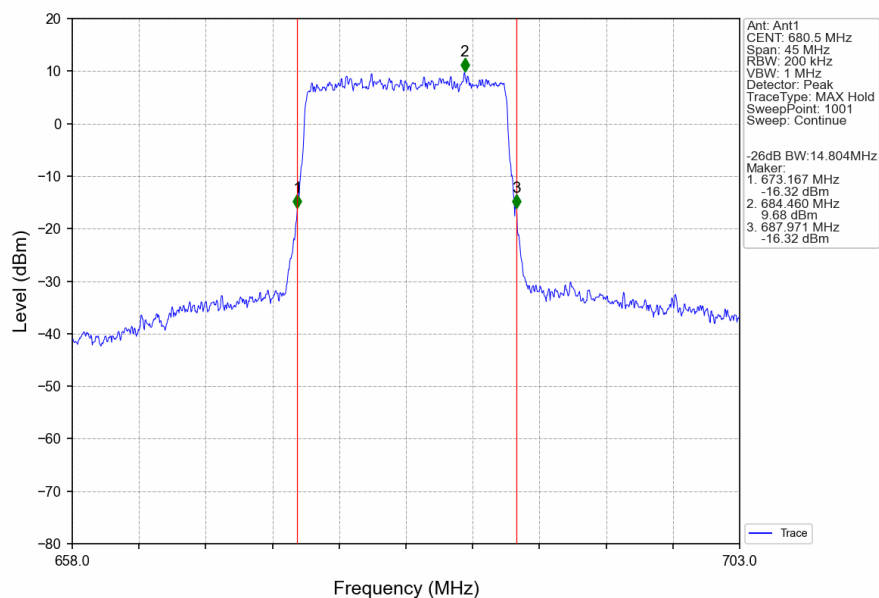
Band71_10MHz_256QAM_MCH_680.5MHz_RB_50_0_NTNV



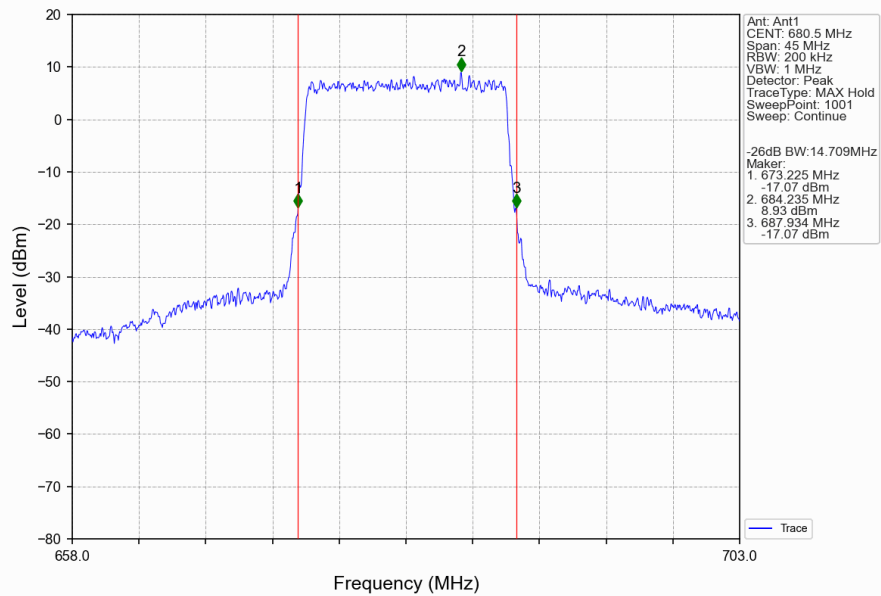
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



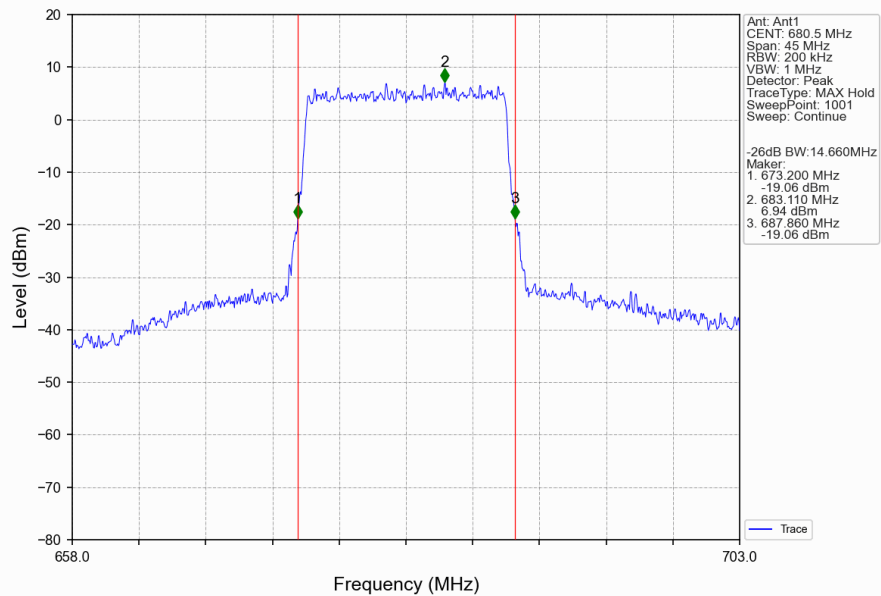
Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



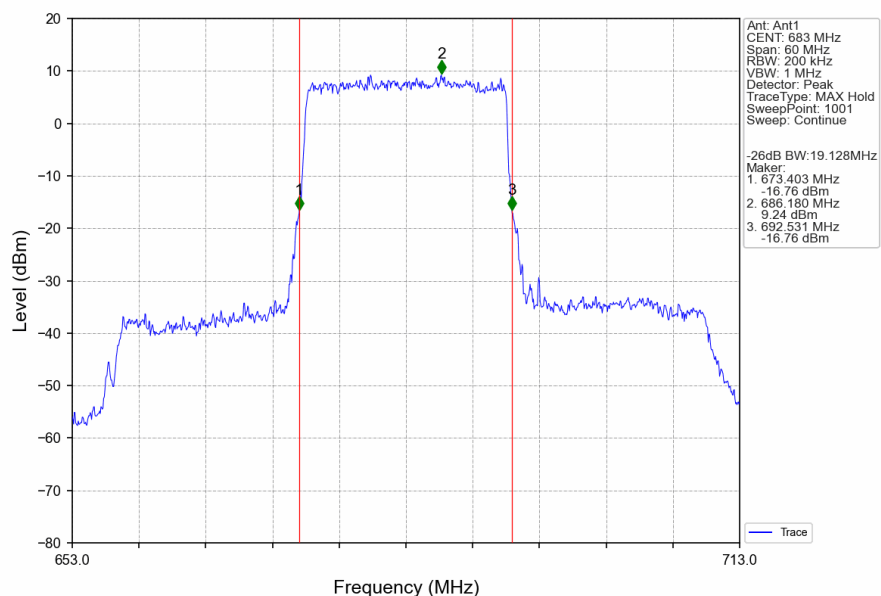
Band71_15MHz_64QAM_MCH_680.5MHz_RB_75_0_NTNV



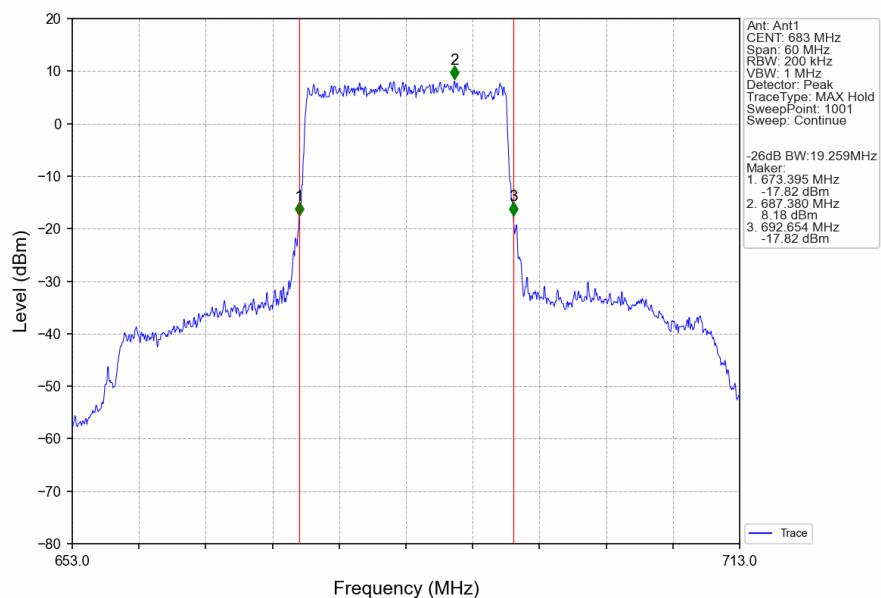
Band71_15MHz_256QAM_MCH_680.5MHz_RB_75_0_NTNV



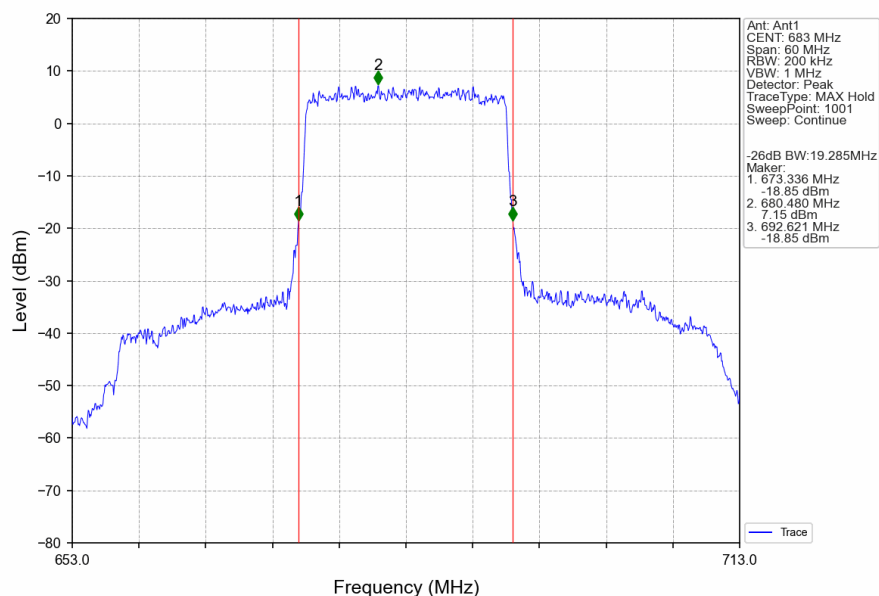
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



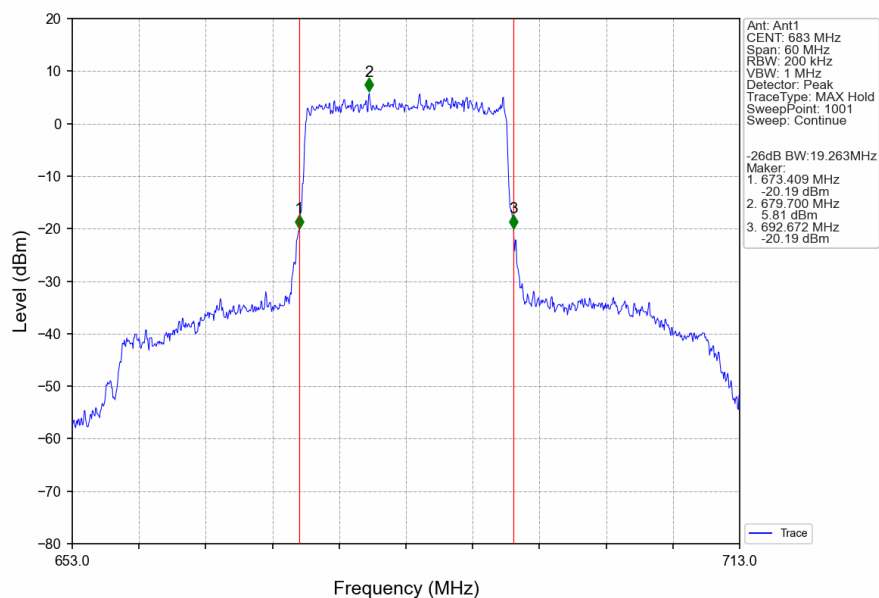
Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_64QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_256QAM_MCH_683MHz_RB_100_0_NTNV





4. Peak-Average Ratio

4.1 Test Result

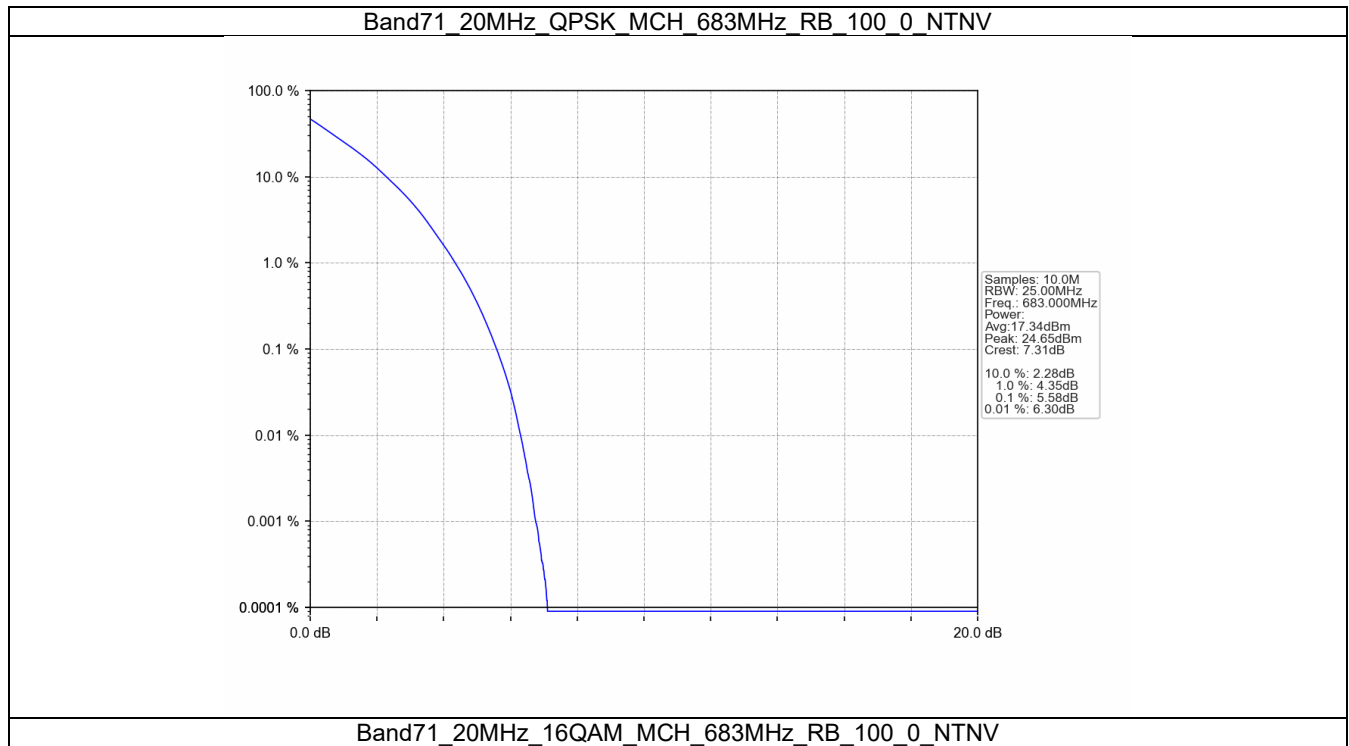
4.1.1 B71_20MHz

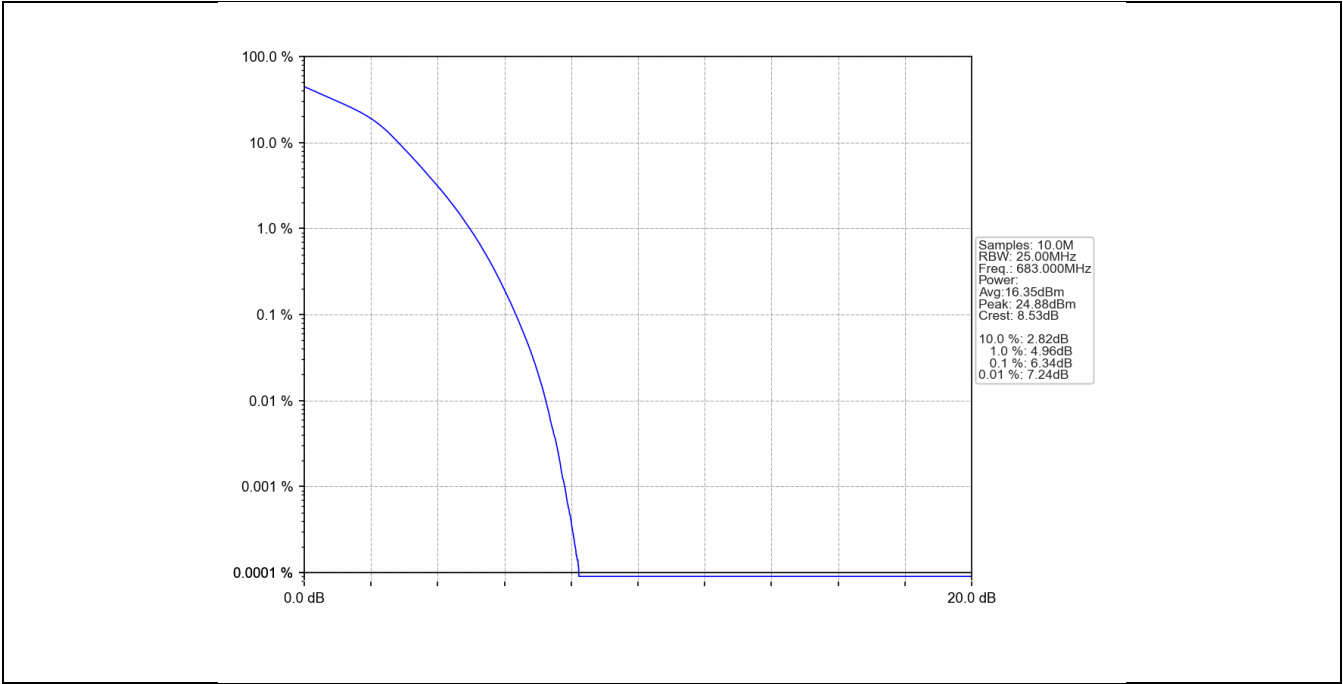
Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	683	100	0	5.58	<=13	Pass
16QAM	683	100	0	6.34	<=13	Pass
64QAM	683	100	0	6.52	<=13	Pass
256QAM	683	100	0	6.59	<=13	Pass



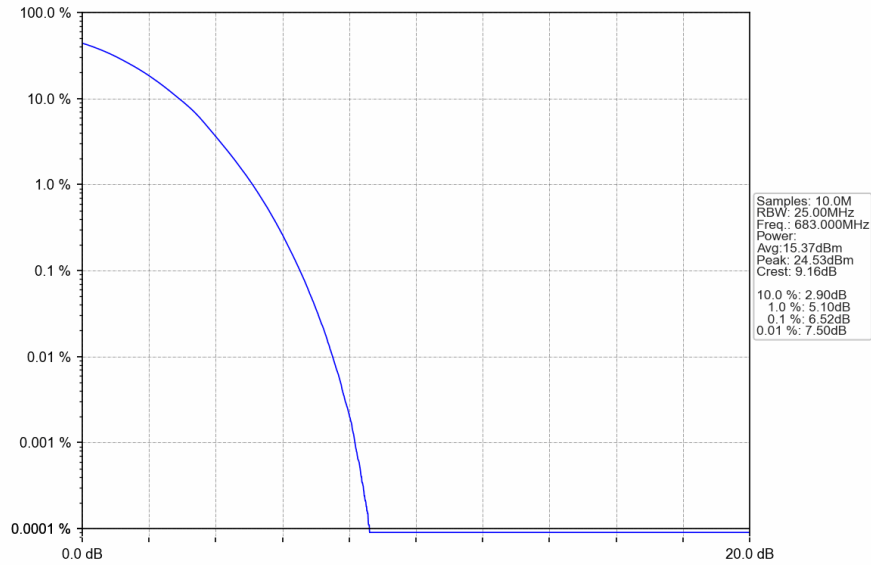
4.2 Test Graph

4.2.1 B71_20MHz

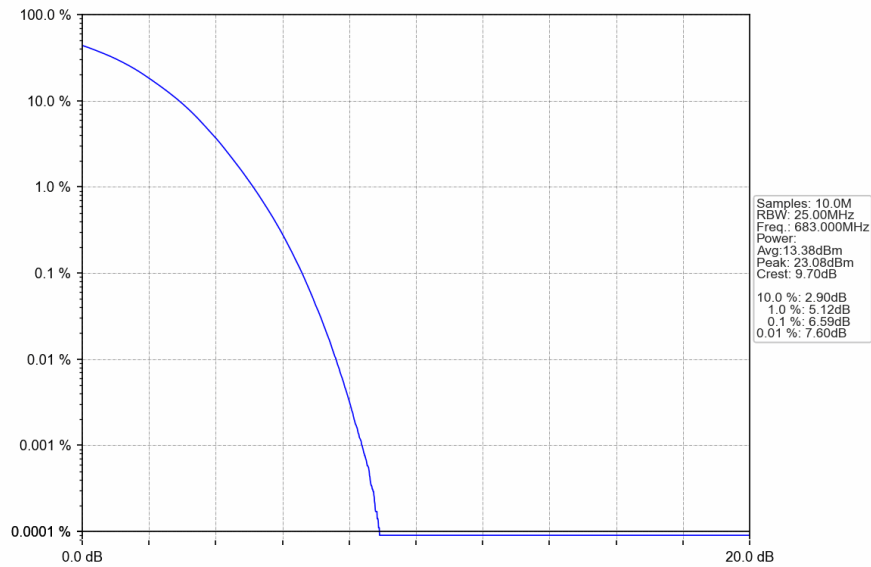




Band71_20MHz_64QAM_MCH_683MHz_RB_100_0_NTNV



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

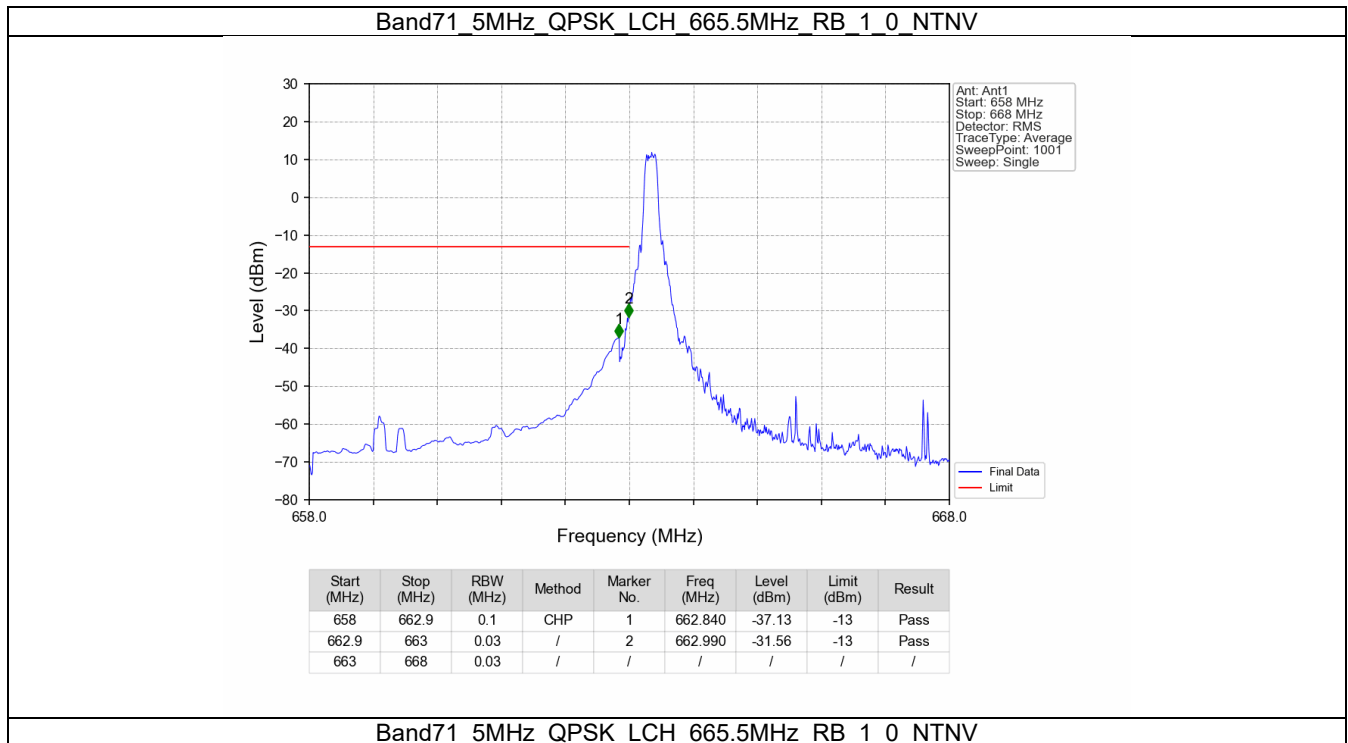
Band: 71 / Bandwidth: 20MHz / NTNV				
Modulation	Frequency	RB Allocation	Spurious Emission	Verdict

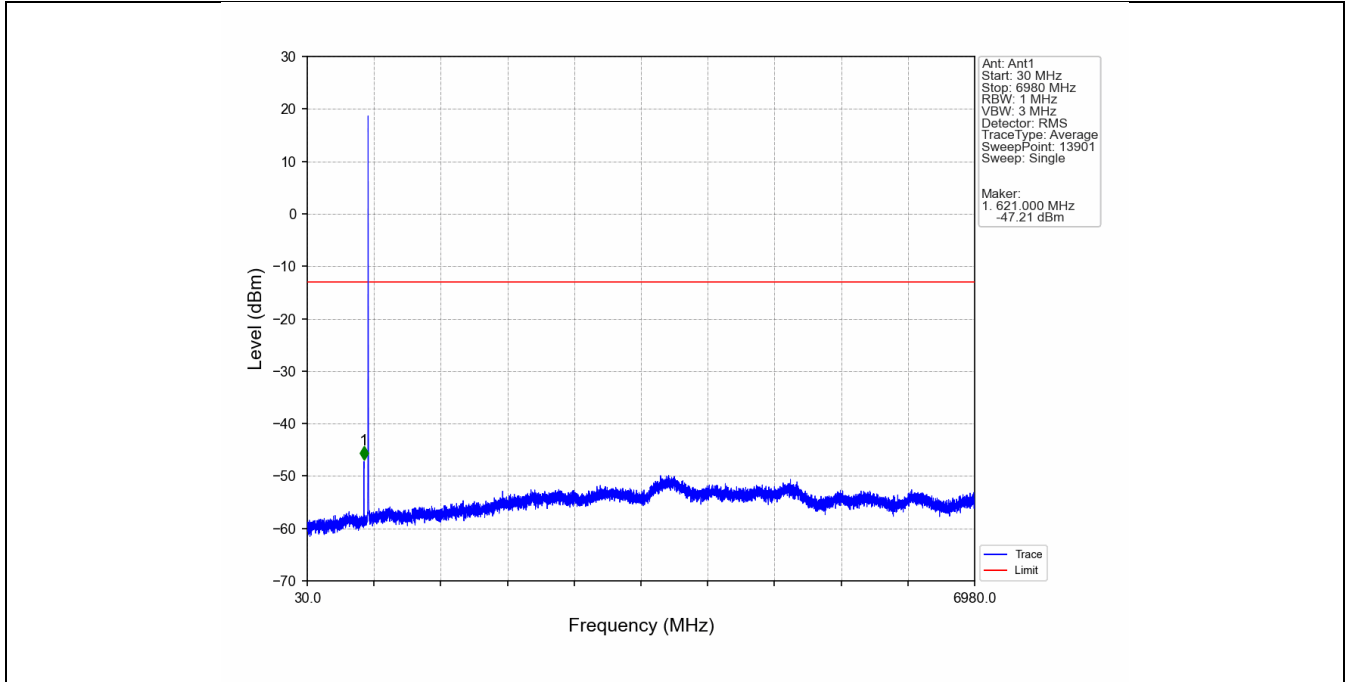


	(MHz)	Size	Offset	Result	Limit	
QPSK	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	683	1	0	Refer To Test Graph		Pass
	688	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

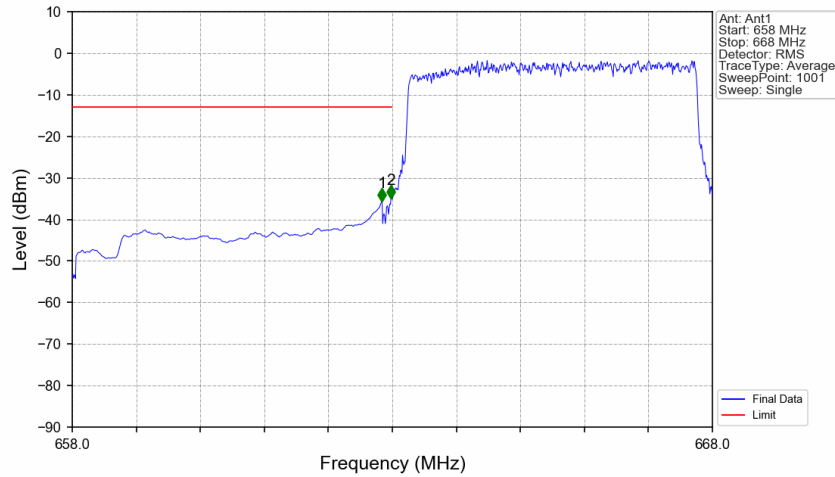
5.2 Test Graph

5.2.1 B71_5MHz



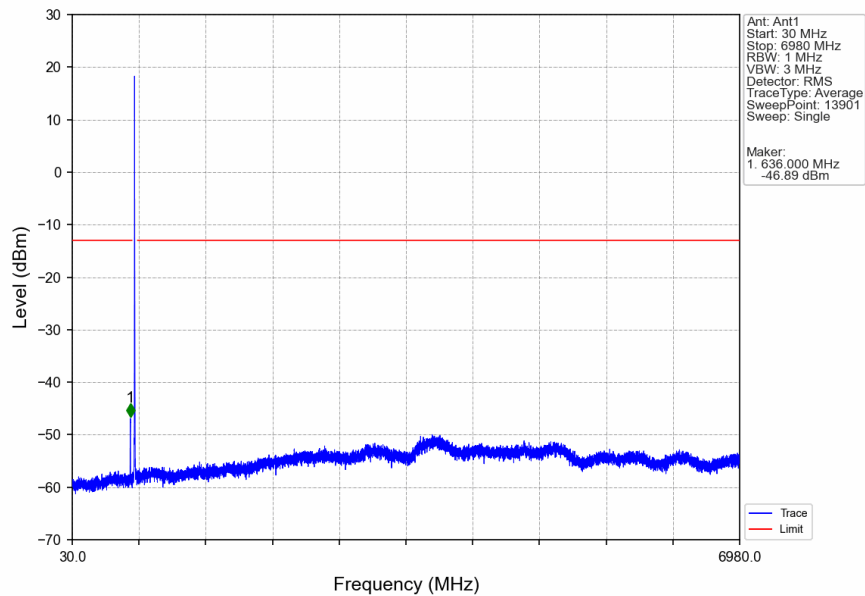


Band71_5MHz_QPSK_LCH_665.5MHz_RB_25_0_NTNV

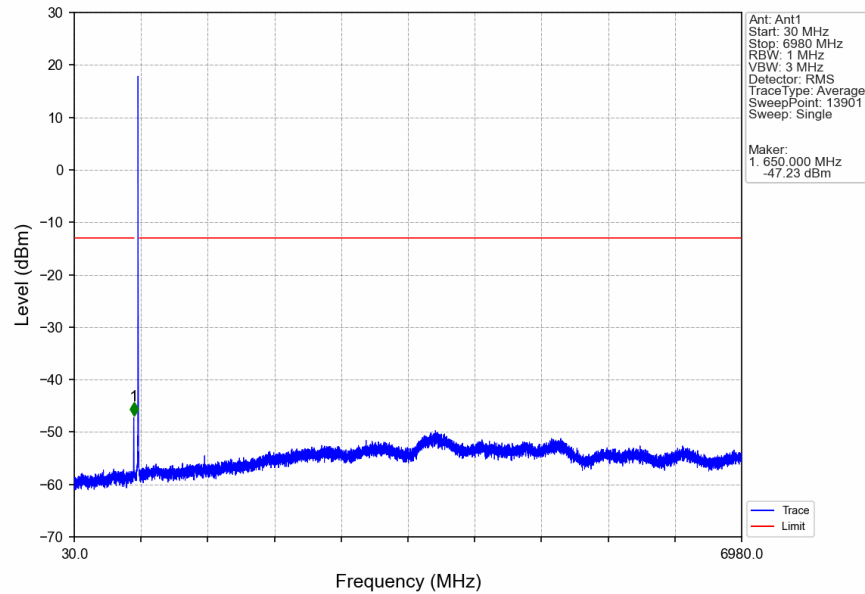


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662.9	0.1	CHP	1	662.840	-35.71	-13	Pass
662.9	663	0.03	/	2	662.980	-34.89	-13	Pass
663	668	0.03	/	/	/	/	/	/

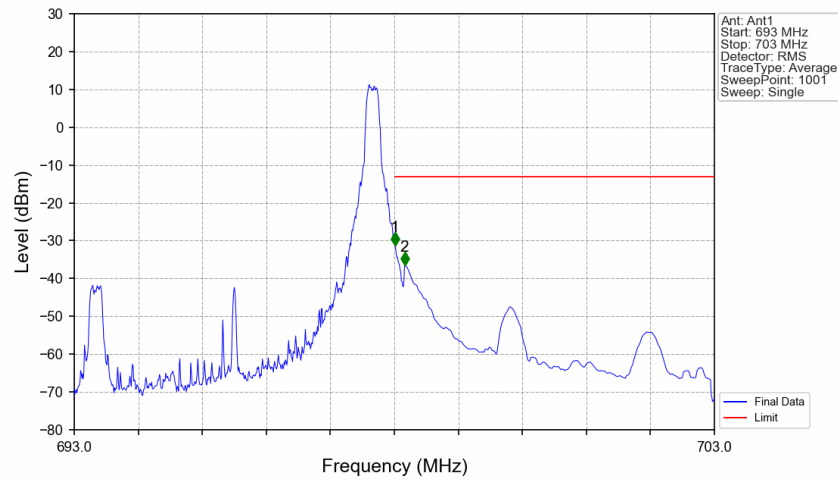
Band71_5MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_0_NTNV

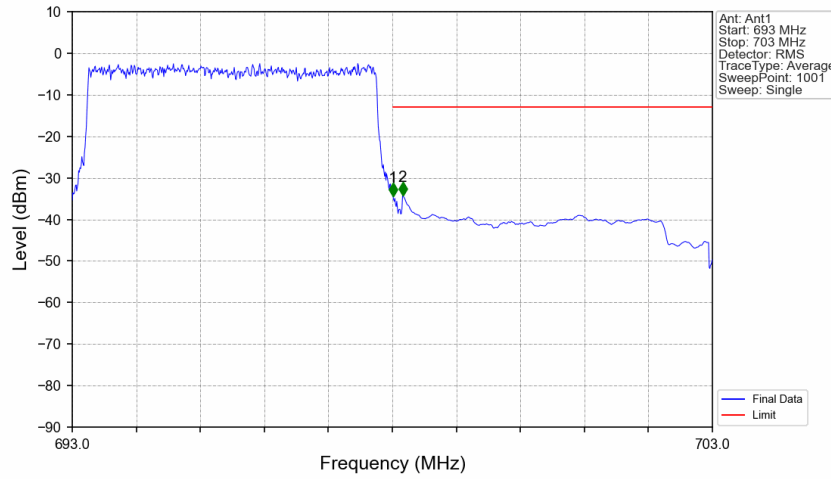


Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_24_NTNV



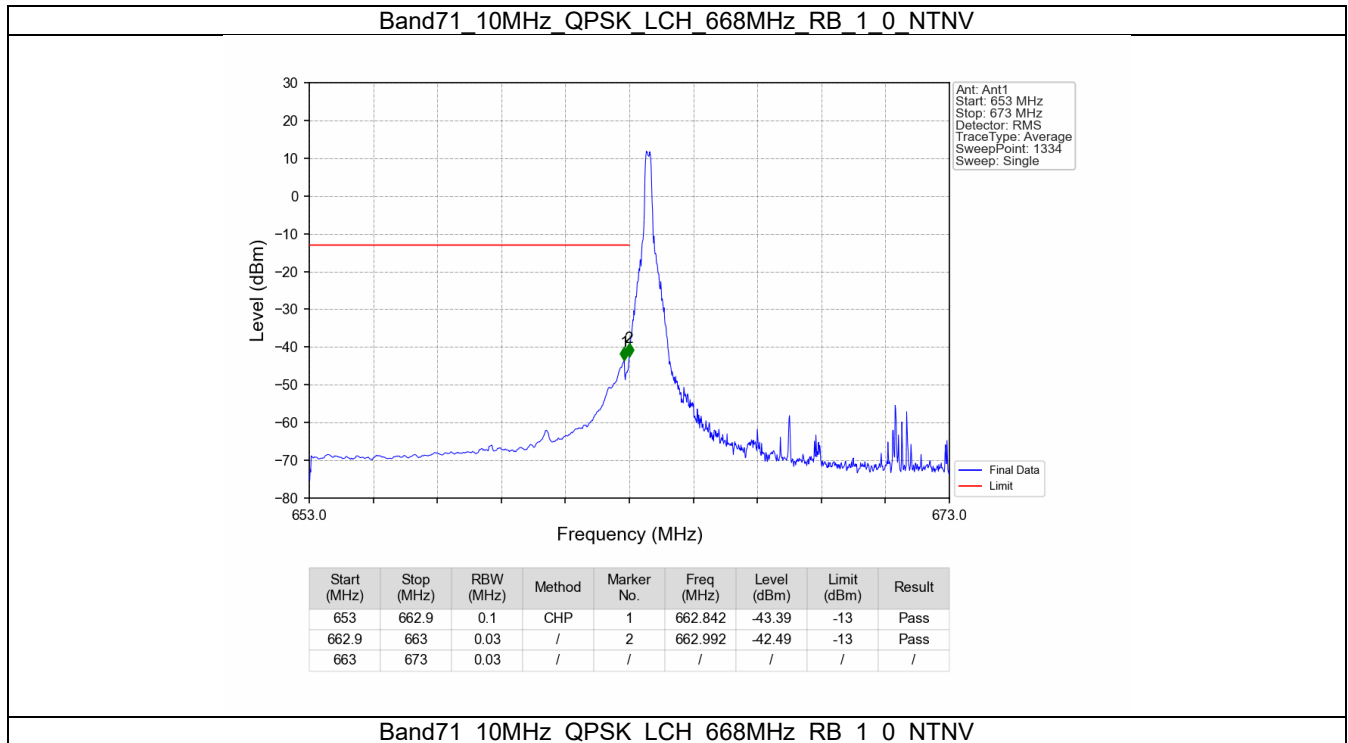
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.010	-31.20	-13	Pass
698.1	703	0.1	CHP	2	698.160	-36.47	-13	Pass

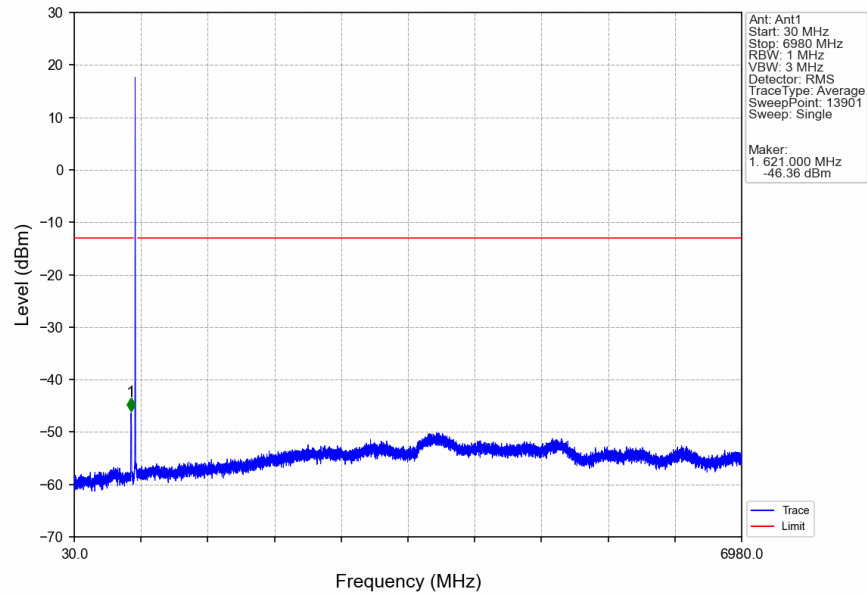
Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



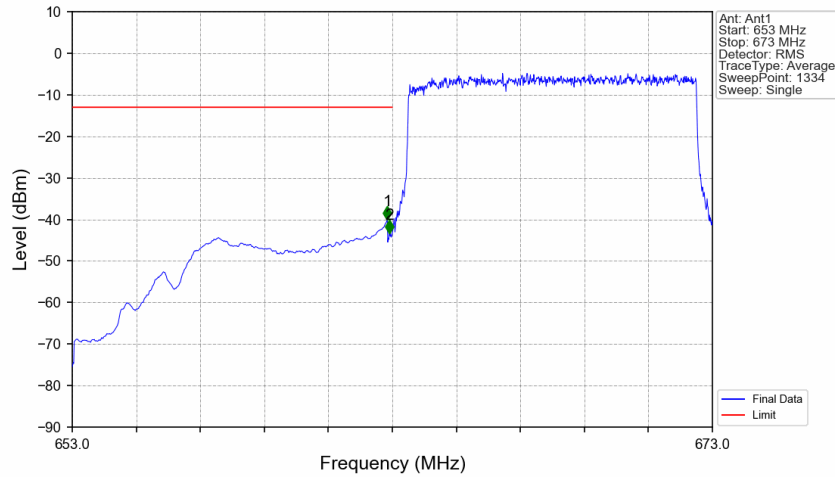
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.010	-34.31	-13	Pass
698.1	703	0.1	CHP	2	698.160	-34.22	-13	Pass

5.2.2 B71_10MHz



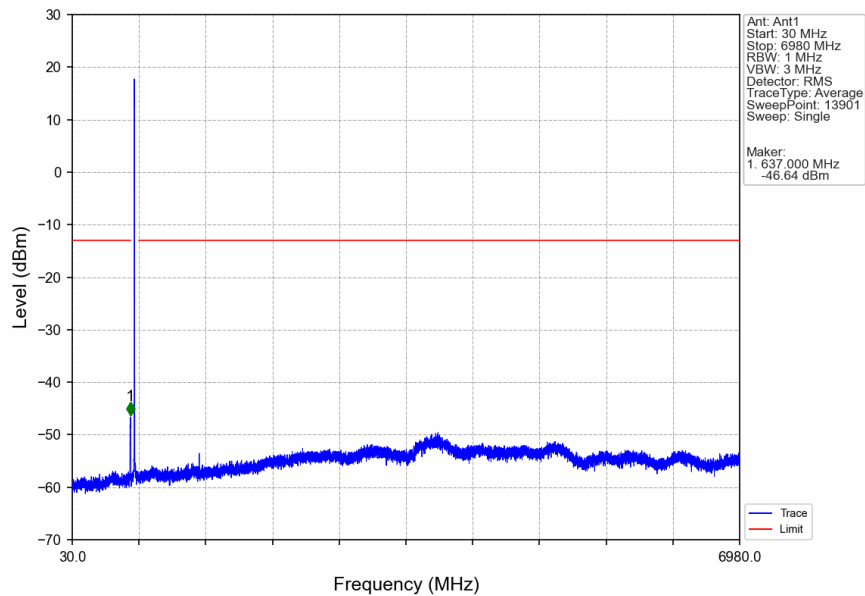


Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV

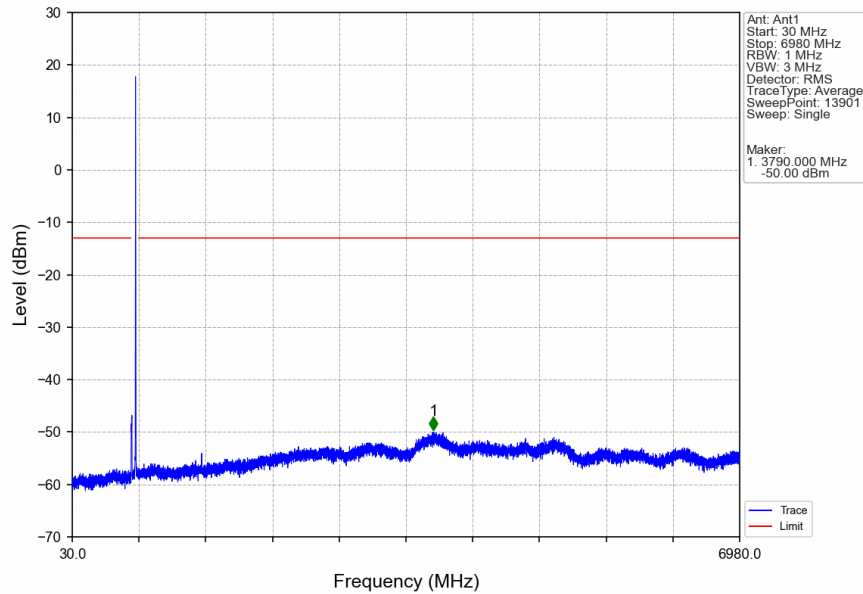


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	662.9	0.1	CHP	1	662.842	-40.03	-13	Pass
662.9	663	0.03	/	2	662.902	-43.24	-13	Pass
663	673	0.03	/	/	/	/	/	/

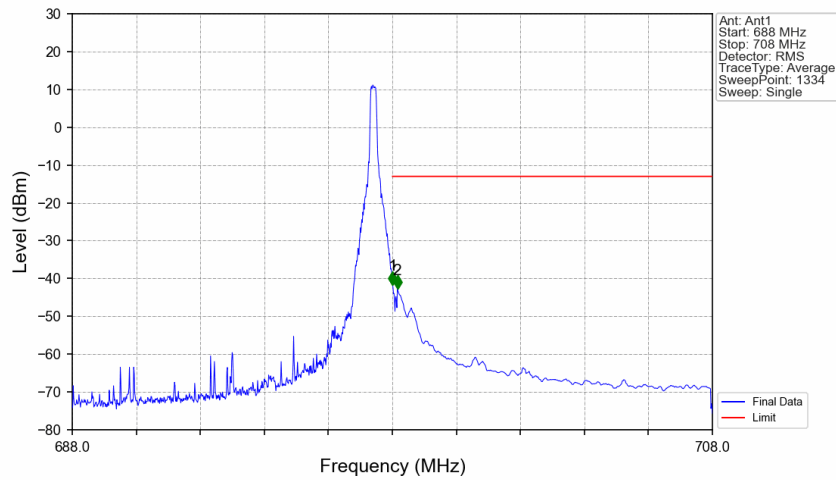
Band71_10MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



Band71_10MHz_QPSK_HCH_693MHz_RB_1_0_NTNV

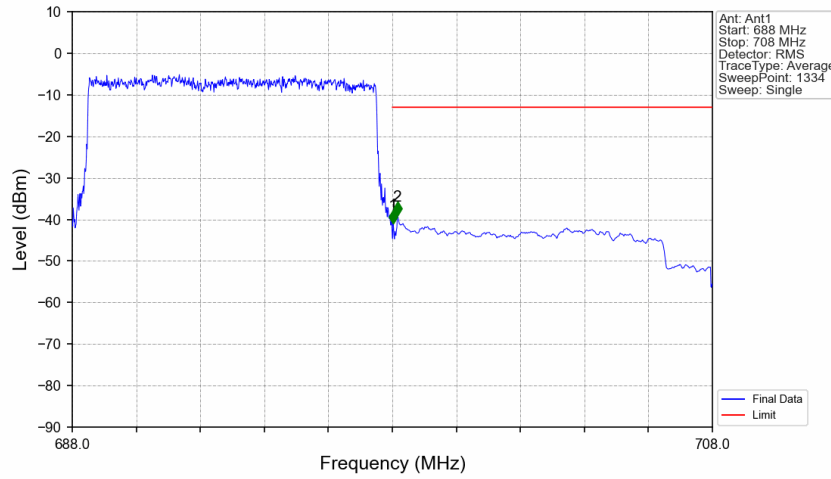


Band71_10MHz_QPSK_HCH_693MHz_RB_1_49_NTNV



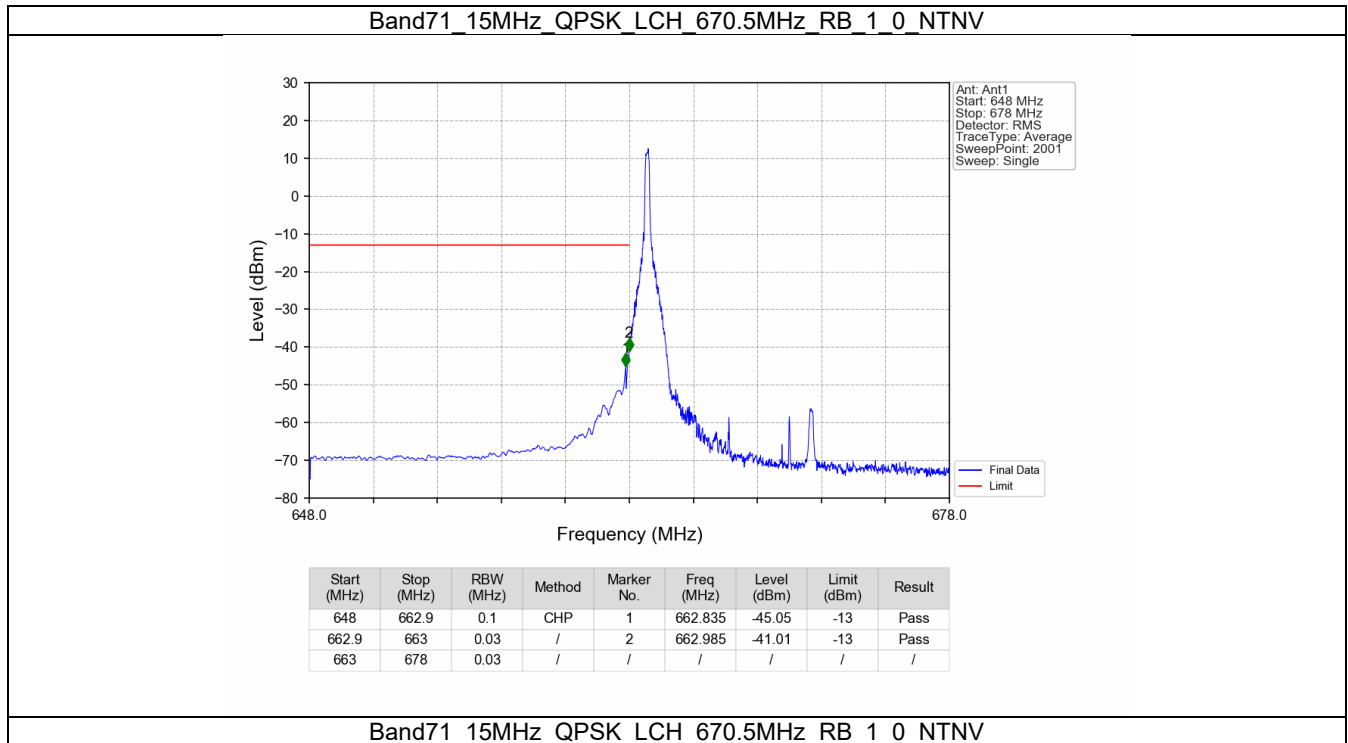
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.008	-41.57	-13	Pass
698.1	708	0.1	CHP	2	698.158	-42.62	-13	Pass

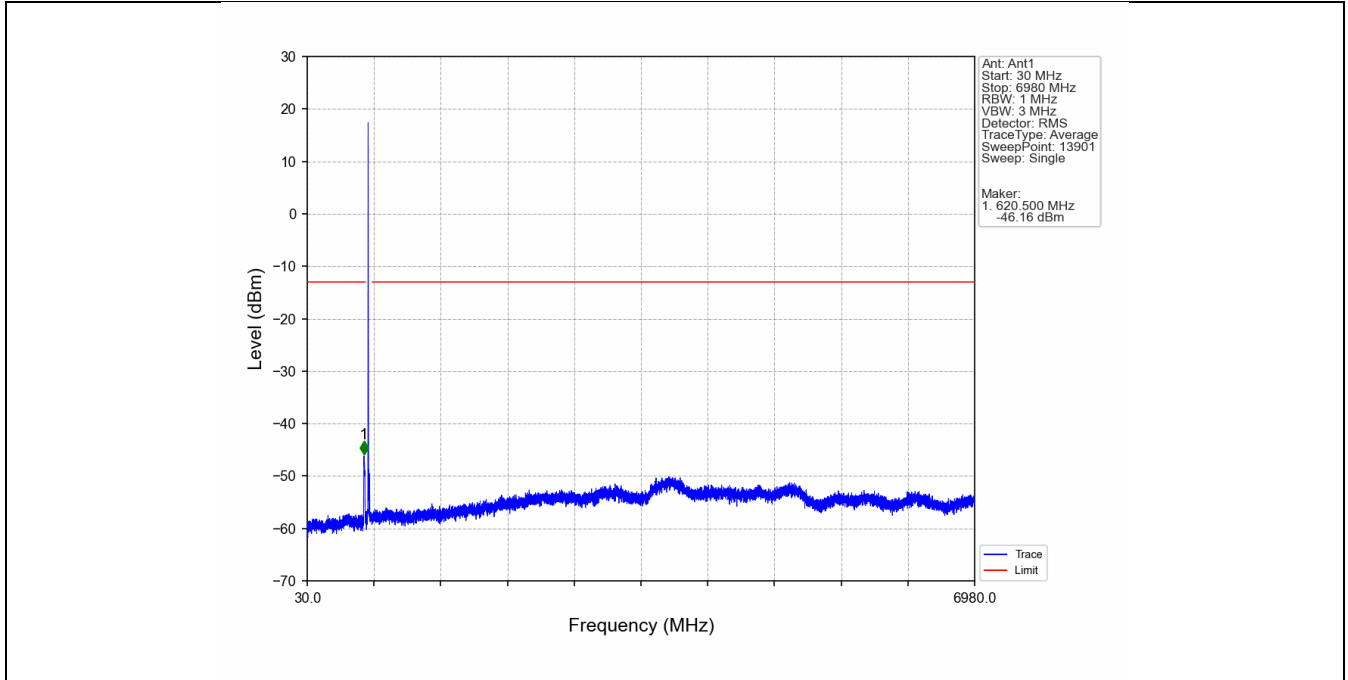
Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



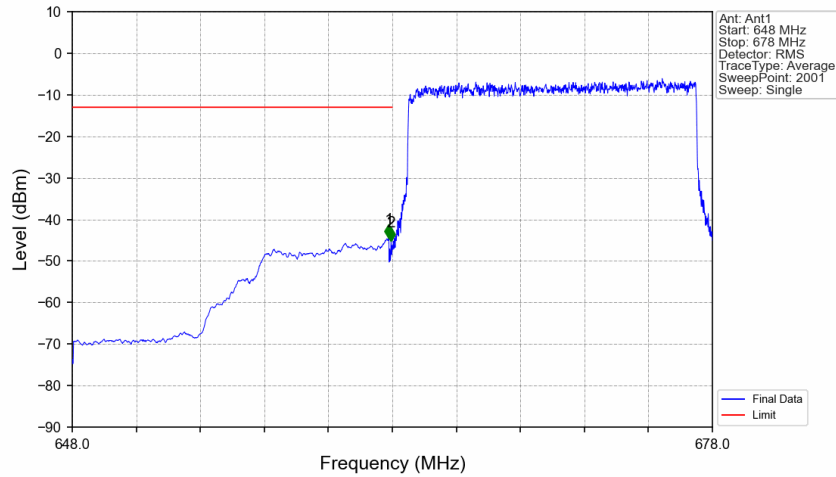
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.023	-40.97	-13	Pass
698.1	708	0.1	CHP	2	698.158	-39.01	-13	Pass

5.2.3 B71_15MHz



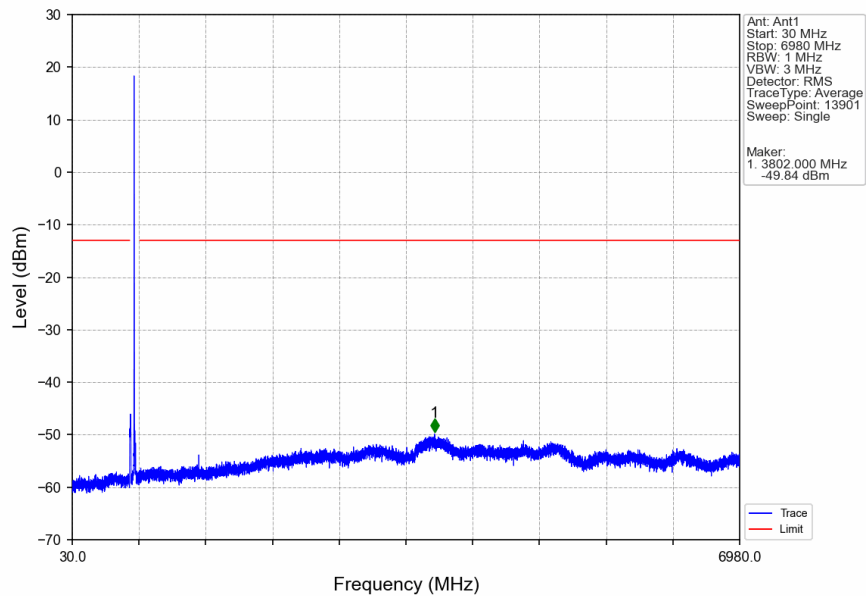


Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV

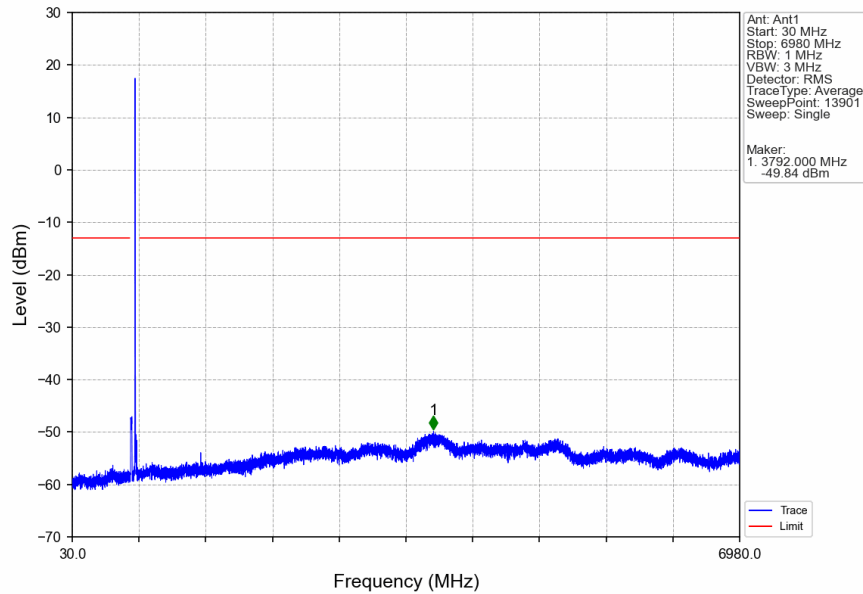


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662.9	0.1	CHP	1	662.835	-44.34	-13	Pass
662.9	663	0.03	/	2	662.940	-45.09	-13	Pass
663	678	0.03	/	/	/	/	/	/

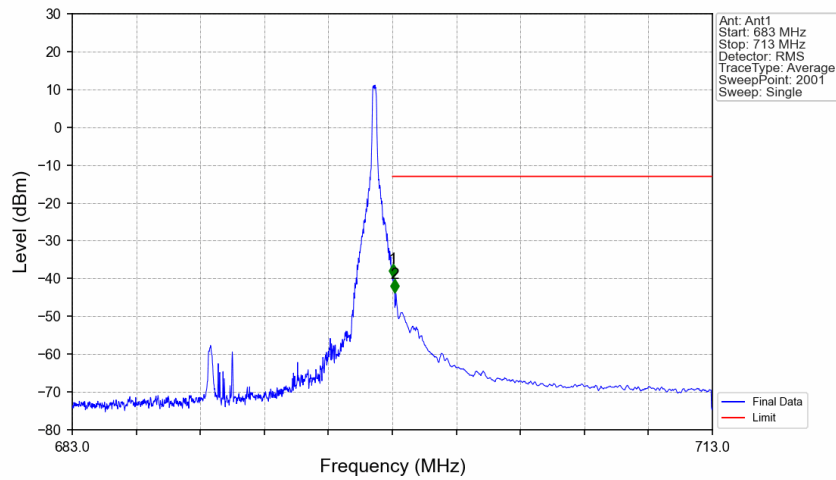
Band71_15MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



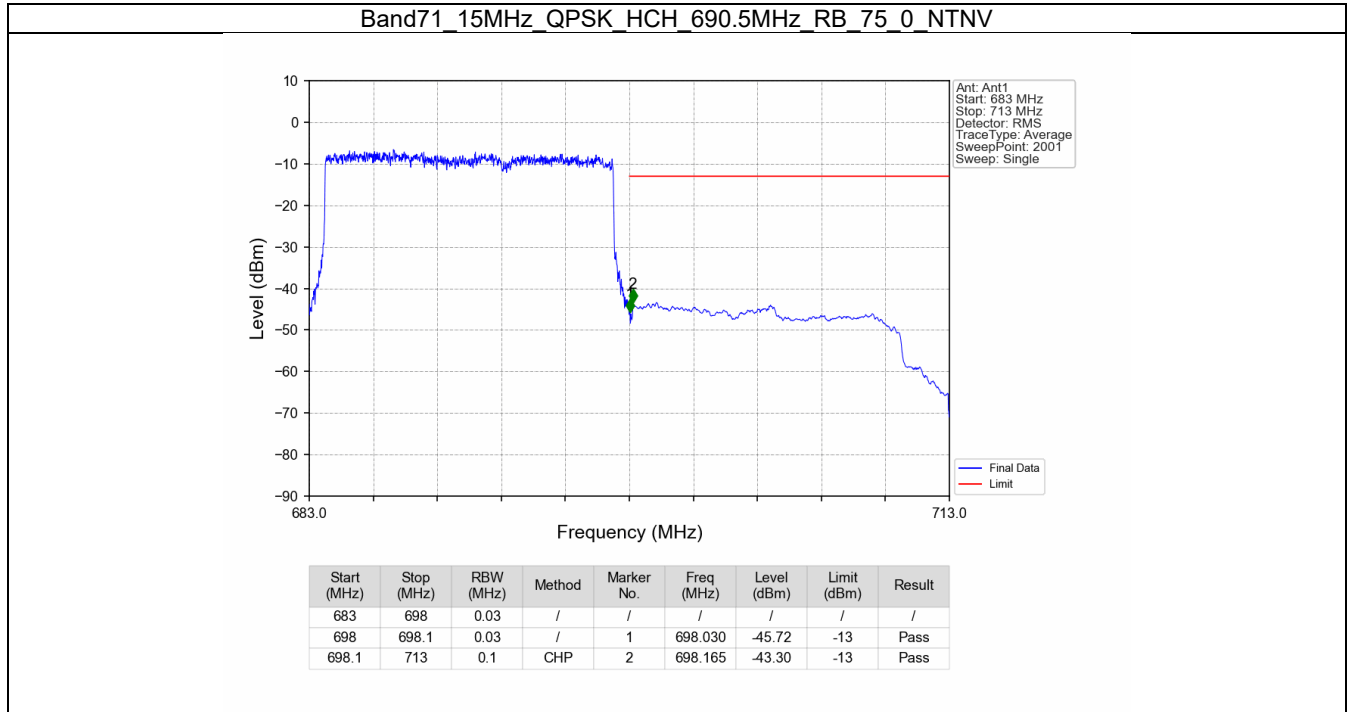
Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_0_NTNV



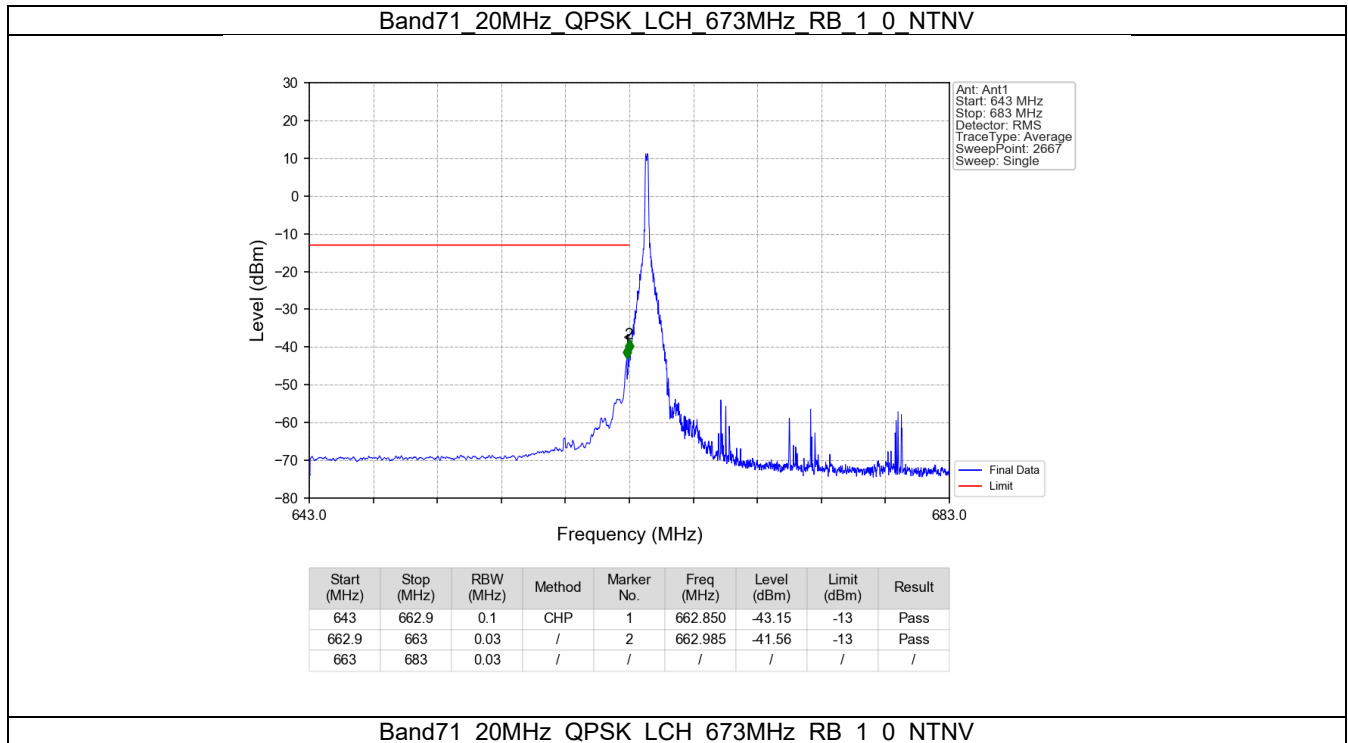
Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_74_NTNV

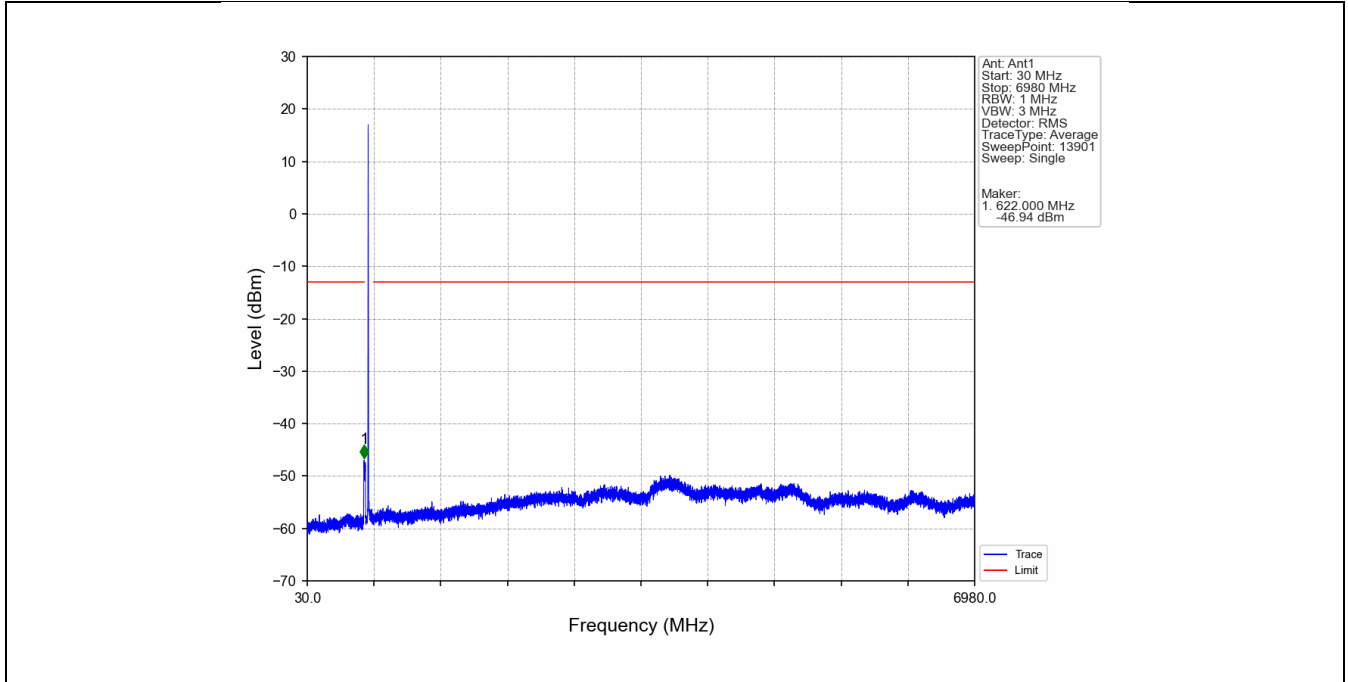


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.030	-39.61	-13	Pass
698.1	713	0.1	CHP	2	698.105	-43.69	-13	Pass

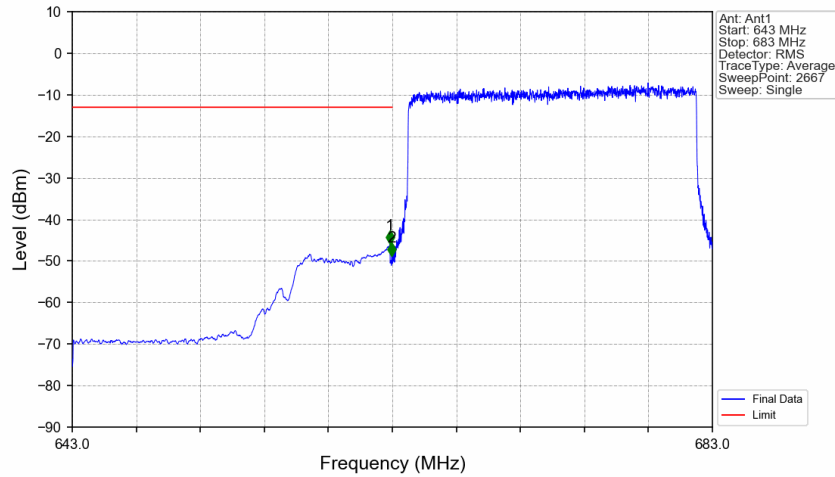


5.2.4 B71_20MHz



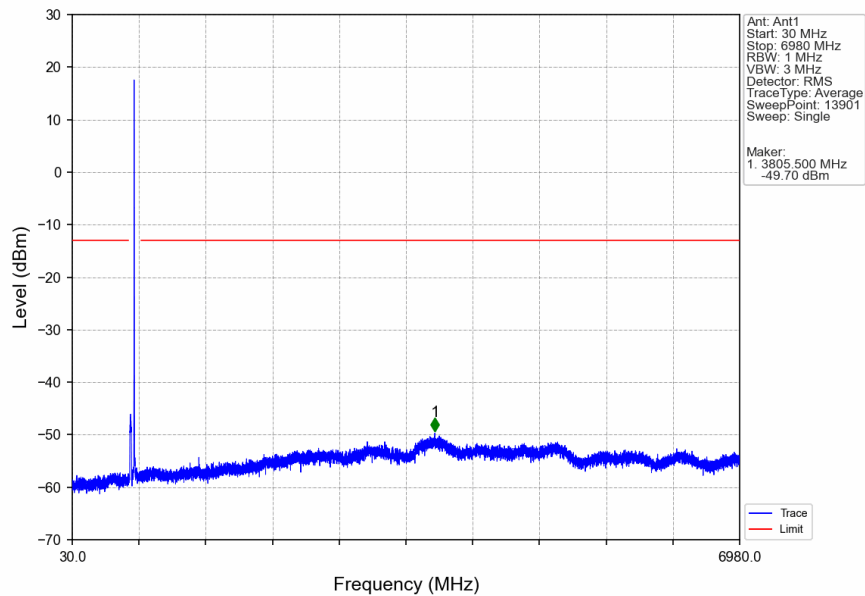


Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV

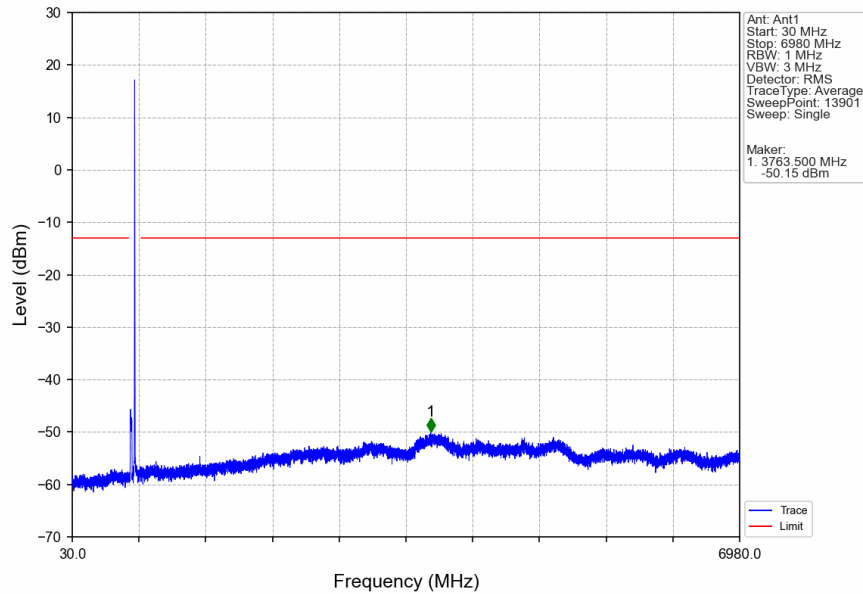


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662.9	0.1	CHP	1	662.850	-45.85	-13	Pass
662.9	663	0.03	/	2	662.970	-48.75	-13	Pass
663	683	0.03	/	/	/	/	/	/

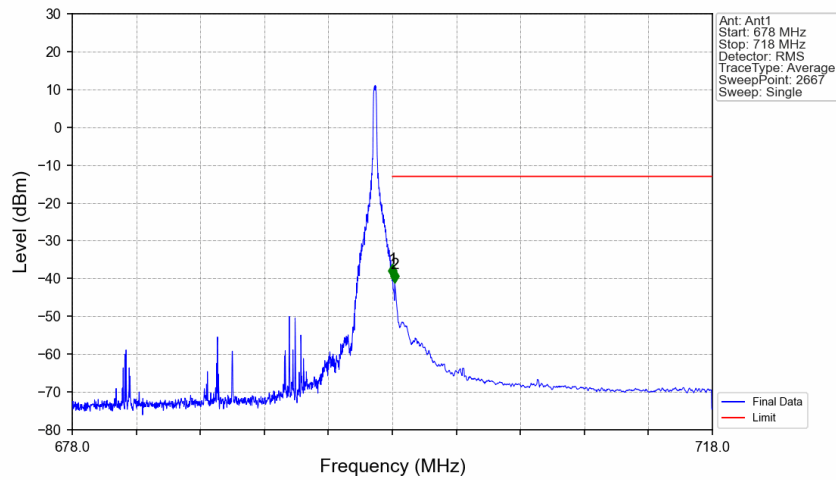
Band71_20MHz_QPSK_MCH_683MHz_RB_1_0_NTNV



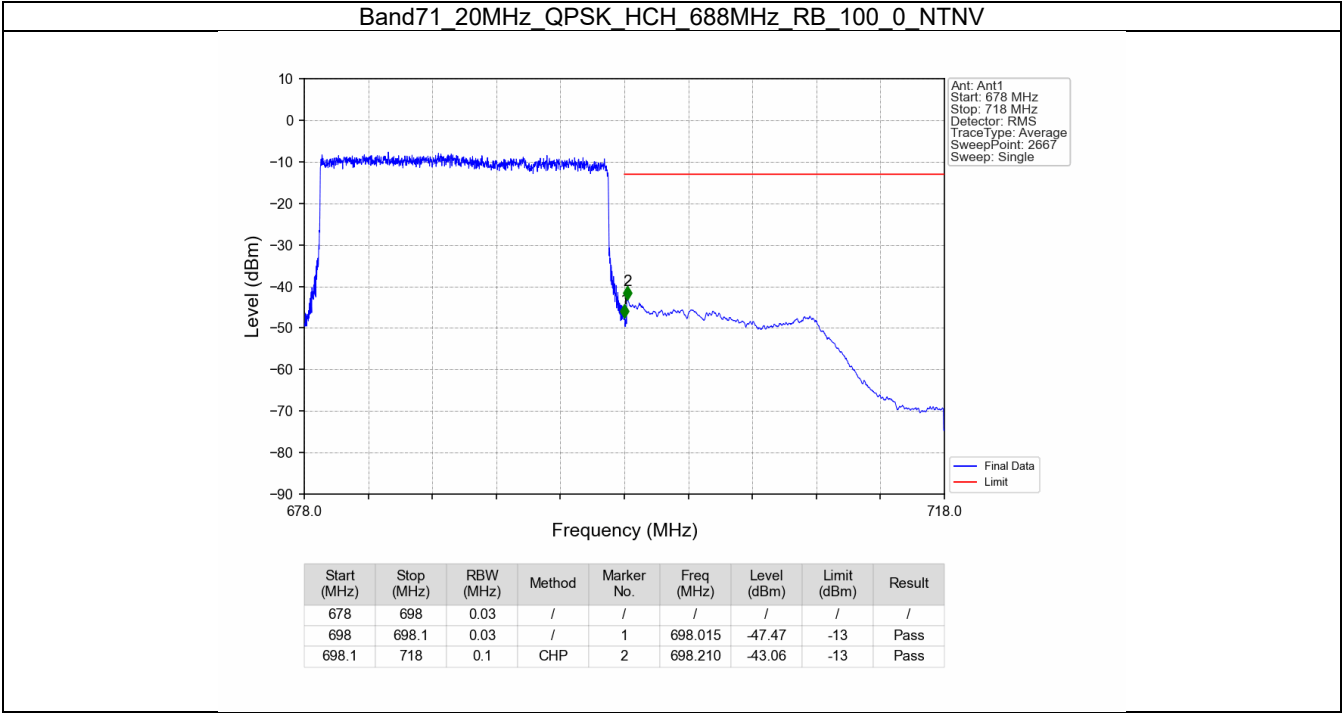
Band71_20MHz_QPSK_HCH_688MHz_RB_1_0_NTNV



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	-39.74	-13	Pass
698.1	718	0.1	CHP	2	698.150	-41.15	-13	Pass



---End of Attachment---