



Appendix A.8

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	22.72	0.37	20.94	<=34.77	Pass
			2	22.75	0.37	20.97	<=34.77	Pass
			5	22.72	0.37	20.94	<=34.77	Pass
		3	0	22.72	0.37	20.94	<=34.77	Pass
			2	22.75	0.37	20.97	<=34.77	Pass
			3	22.72	0.37	20.94	<=34.77	Pass
		6	0	21.70	0.37	19.92	<=34.77	Pass
			0	22.73	0.37	20.95	<=34.77	Pass
			2	22.73	0.37	20.95	<=34.77	Pass
	707.5	1	5	22.67	0.37	20.89	<=34.77	Pass
			0	22.65	0.37	20.87	<=34.77	Pass
			2	22.73	0.37	20.95	<=34.77	Pass
		3	3	22.77	0.37	20.99	<=34.77	Pass
			0	21.58	0.37	19.80	<=34.77	Pass
			0	22.64	0.37	20.86	<=34.77	Pass
		6	2	22.68	0.37	20.90	<=34.77	Pass
			5	22.60	0.37	20.82	<=34.77	Pass
			0	22.68	0.37	20.90	<=34.77	Pass
	715.3	3	2	22.73	0.37	20.95	<=34.77	Pass
			3	22.70	0.37	20.92	<=34.77	Pass
			0	21.68	0.37	19.90	<=34.77	Pass
16QAM	699.7	1	0	21.98	0.37	20.20	<=34.77	Pass
			2	22.05	0.37	20.27	<=34.77	Pass
			5	21.99	0.37	20.21	<=34.77	Pass
		3	0	21.85	0.37	20.07	<=34.77	Pass
			2	21.79	0.37	20.01	<=34.77	Pass
			3	21.91	0.37	20.13	<=34.77	Pass
		6	0	20.76	0.37	18.98	<=34.77	Pass
			0	21.99	0.37	20.21	<=34.77	Pass
			2	22.07	0.37	20.29	<=34.77	Pass
	707.5	1	5	21.65	0.37	19.87	<=34.77	Pass
			0	21.73	0.37	19.95	<=34.77	Pass
			2	21.80	0.37	20.02	<=34.77	Pass
		3	3	21.84	0.37	20.06	<=34.77	Pass
			0	20.71	0.37	18.93	<=34.77	Pass
			0	21.92	0.37	20.14	<=34.77	Pass
		6	2	21.98	0.37	20.20	<=34.77	Pass
			5	21.81	0.37	20.03	<=34.77	Pass
			0	21.86	0.37	20.08	<=34.77	Pass
	715.3	3	2	21.67	0.37	19.89	<=34.77	Pass

64QAM	699.7	6	3	21.76	0.37	19.98	<=34.77	Pass
			0	20.75	0.37	18.97	<=34.77	Pass
	699.7	1	0	21.72	0.37	19.94	<=34.77	Pass
			2	21.65	0.37	19.87	<=34.77	Pass
			5	21.68	0.37	19.90	<=34.77	Pass
		3	0	21.85	0.37	20.07	<=34.77	Pass
			2	21.69	0.37	19.91	<=34.77	Pass
			3	21.86	0.37	20.08	<=34.77	Pass
		6	0	20.69	0.37	18.91	<=34.77	Pass
	707.5	1	0	21.91	0.37	20.13	<=34.77	Pass
			2	21.82	0.37	20.04	<=34.77	Pass
			5	21.72	0.37	19.94	<=34.77	Pass
		3	0	21.76	0.37	19.98	<=34.77	Pass
			2	21.89	0.37	20.11	<=34.77	Pass
			3	21.72	0.37	19.94	<=34.77	Pass
		6	0	20.70	0.37	18.92	<=34.77	Pass
	715.3	1	0	21.45	0.37	19.67	<=34.77	Pass
			2	21.68	0.37	19.90	<=34.77	Pass
			5	21.69	0.37	19.91	<=34.77	Pass
		3	0	21.75	0.37	19.97	<=34.77	Pass
			2	21.76	0.37	19.98	<=34.77	Pass
			3	21.81	0.37	20.03	<=34.77	Pass
		6	0	20.70	0.37	18.92	<=34.77	Pass
256QAM	699.7	1	0	17.65	0.37	15.87	<=34.77	Pass
			2	17.74	0.37	15.96	<=34.77	Pass
			5	17.69	0.37	15.91	<=34.77	Pass
		3	0	17.74	0.37	15.96	<=34.77	Pass
			2	17.77	0.37	15.99	<=34.77	Pass
			3	17.72	0.37	15.94	<=34.77	Pass
		6	0	17.65	0.37	15.87	<=34.77	Pass
	707.5	1	0	17.75	0.37	15.97	<=34.77	Pass
			2	17.64	0.37	15.86	<=34.77	Pass
			5	17.81	0.37	16.03	<=34.77	Pass
		3	0	17.74	0.37	15.96	<=34.77	Pass
			2	17.82	0.37	16.04	<=34.77	Pass
			3	17.59	0.37	15.81	<=34.77	Pass
		6	0	17.64	0.37	15.86	<=34.77	Pass
	715.3	1	0	17.62	0.37	15.84	<=34.77	Pass
			2	17.94	0.37	16.16	<=34.77	Pass
			5	17.53	0.37	15.75	<=34.77	Pass
		3	0	17.71	0.37	15.93	<=34.77	Pass
			2	17.65	0.37	15.87	<=34.77	Pass
			3	17.80	0.37	16.02	<=34.77	Pass
		6	0	17.66	0.37	15.88	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	

QPSK	700.5	1	0	22.76	0.37	20.98	<=34.77	Pass
			7	22.74	0.37	20.96	<=34.77	Pass
			14	22.62	0.37	20.84	<=34.77	Pass
		8	0	21.71	0.37	19.93	<=34.77	Pass
			4	21.68	0.37	19.90	<=34.77	Pass
			7	21.67	0.37	19.89	<=34.77	Pass
		15	0	21.65	0.37	19.87	<=34.77	Pass
	707.5	1	0	22.66	0.37	20.88	<=34.77	Pass
			7	22.67	0.37	20.89	<=34.77	Pass
			14	22.59	0.37	20.81	<=34.77	Pass
		8	0	21.69	0.37	19.91	<=34.77	Pass
			4	21.69	0.37	19.91	<=34.77	Pass
			7	21.79	0.37	20.01	<=34.77	Pass
		15	0	21.69	0.37	19.91	<=34.77	Pass
	714.5	1	0	22.62	0.37	20.84	<=34.77	Pass
			7	22.70	0.37	20.92	<=34.77	Pass
			14	22.59	0.37	20.81	<=34.77	Pass
		8	0	21.65	0.37	19.87	<=34.77	Pass
			4	21.81	0.37	20.03	<=34.77	Pass
			7	21.76	0.37	19.98	<=34.77	Pass
		15	0	21.66	0.37	19.88	<=34.77	Pass
16QAM	700.5	1	0	22.11	0.37	20.33	<=34.77	Pass
			7	22.00	0.37	20.22	<=34.77	Pass
			14	21.71	0.37	19.93	<=34.77	Pass
		8	0	20.60	0.37	18.82	<=34.77	Pass
			4	20.78	0.37	19.00	<=34.77	Pass
			7	20.72	0.37	18.94	<=34.77	Pass
		15	0	20.77	0.37	18.99	<=34.77	Pass
	707.5	1	0	21.85	0.37	20.07	<=34.77	Pass
			7	22.06	0.37	20.28	<=34.77	Pass
			14	21.73	0.37	19.95	<=34.77	Pass
		8	0	20.71	0.37	18.93	<=34.77	Pass
			4	20.79	0.37	19.01	<=34.77	Pass
			7	20.78	0.37	19.00	<=34.77	Pass
		15	0	20.68	0.37	18.90	<=34.77	Pass
	714.5	1	0	21.94	0.37	20.16	<=34.77	Pass
			7	22.01	0.37	20.23	<=34.77	Pass
			14	21.72	0.37	19.94	<=34.77	Pass
		8	0	20.75	0.37	18.97	<=34.77	Pass
			4	20.79	0.37	19.01	<=34.77	Pass
			7	20.75	0.37	18.97	<=34.77	Pass
		15	0	20.71	0.37	18.93	<=34.77	Pass
64QAM	700.5	1	0	21.74	0.37	19.96	<=34.77	Pass
			7	21.73	0.37	19.95	<=34.77	Pass
			14	21.81	0.37	20.03	<=34.77	Pass
		8	0	20.72	0.37	18.94	<=34.77	Pass
			4	20.76	0.37	18.98	<=34.77	Pass
			7	20.69	0.37	18.91	<=34.77	Pass
		15	0	20.71	0.37	18.93	<=34.77	Pass
	707.5	1	0	21.58	0.37	19.80	<=34.77	Pass
			7	21.80	0.37	20.02	<=34.77	Pass
			14	21.64	0.37	19.86	<=34.77	Pass
		8	0	20.55	0.37	18.77	<=34.77	Pass

		15	4	20.68	0.37	18.90	<=34.77	Pass
			7	20.69	0.37	18.91	<=34.77	Pass
			0	20.63	0.37	18.85	<=34.77	Pass
	714.5	1	0	21.77	0.37	19.99	<=34.77	Pass
			7	21.61	0.37	19.83	<=34.77	Pass
			14	21.61	0.37	19.83	<=34.77	Pass
		8	0	20.66	0.37	18.88	<=34.77	Pass
			4	20.67	0.37	18.89	<=34.77	Pass
			7	20.65	0.37	18.87	<=34.77	Pass
		15	0	20.67	0.37	18.89	<=34.77	Pass
256QAM	700.5	1	0	17.76	0.37	15.98	<=34.77	Pass
			7	17.78	0.37	16.00	<=34.77	Pass
			14	17.73	0.37	15.95	<=34.77	Pass
		8	0	17.75	0.37	15.97	<=34.77	Pass
			4	17.69	0.37	15.91	<=34.77	Pass
			7	17.69	0.37	15.91	<=34.77	Pass
		15	0	17.77	0.37	15.99	<=34.77	Pass
	707.5	1	0	17.67	0.37	15.89	<=34.77	Pass
			7	17.88	0.37	16.10	<=34.77	Pass
			14	17.81	0.37	16.03	<=34.77	Pass
		8	0	17.71	0.37	15.93	<=34.77	Pass
			4	17.66	0.37	15.88	<=34.77	Pass
			7	17.76	0.37	15.98	<=34.77	Pass
		15	0	17.70	0.37	15.92	<=34.77	Pass
	714.5	1	0	17.61	0.37	15.83	<=34.77	Pass
			7	17.76	0.37	15.98	<=34.77	Pass
			14	17.73	0.37	15.95	<=34.77	Pass
		8	0	17.80	0.37	16.02	<=34.77	Pass
			4	17.66	0.37	15.88	<=34.77	Pass
			7	17.71	0.37	15.93	<=34.77	Pass
		15	0	17.70	0.37	15.92	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	22.72	0.37	20.94	<=34.77	Pass
			13	22.75	0.37	20.97	<=34.77	Pass
			24	22.76	0.37	20.98	<=34.77	Pass
		12	0	21.64	0.37	19.86	<=34.77	Pass
			6	21.77	0.37	19.99	<=34.77	Pass
			13	21.67	0.37	19.89	<=34.77	Pass
		25	0	21.76	0.37	19.98	<=34.77	Pass
	707.5	1	0	22.68	0.37	20.90	<=34.77	Pass
			13	22.75	0.37	20.97	<=34.77	Pass
			24	22.66	0.37	20.88	<=34.77	Pass
		12	0	21.72	0.37	19.94	<=34.77	Pass
			6	21.78	0.37	20.00	<=34.77	Pass
			13	21.78	0.37	20.00	<=34.77	Pass

	713.5	25	0	21.73	0.37	19.95	<=34.77	Pass
		1	0	22.68	0.37	20.90	<=34.77	Pass
			13	22.70	0.37	20.92	<=34.77	Pass
			24	22.62	0.37	20.84	<=34.77	Pass
		12	0	21.73	0.37	19.95	<=34.77	Pass
			6	21.71	0.37	19.93	<=34.77	Pass
			13	21.43	0.37	19.65	<=34.77	Pass
		25	0	21.68	0.37	19.90	<=34.77	Pass
16QAM	701.5	1	0	21.99	0.37	20.21	<=34.77	Pass
			13	21.98	0.37	20.20	<=34.77	Pass
			24	22.12	0.37	20.34	<=34.77	Pass
		12	0	20.66	0.37	18.88	<=34.77	Pass
			6	20.83	0.37	19.05	<=34.77	Pass
			13	20.66	0.37	18.88	<=34.77	Pass
		25	0	20.74	0.37	18.96	<=34.77	Pass
	707.5	1	0	22.07	0.37	20.29	<=34.77	Pass
			13	22.07	0.37	20.29	<=34.77	Pass
			24	21.70	0.37	19.92	<=34.77	Pass
		12	0	20.74	0.37	18.96	<=34.77	Pass
			6	20.82	0.37	19.04	<=34.77	Pass
			13	20.82	0.37	19.04	<=34.77	Pass
		25	0	20.73	0.37	18.95	<=34.77	Pass
	713.5	1	0	21.76	0.37	19.98	<=34.77	Pass
			13	21.75	0.37	19.97	<=34.77	Pass
			24	21.79	0.37	20.01	<=34.77	Pass
		12	0	20.65	0.37	18.87	<=34.77	Pass
			6	20.71	0.37	18.93	<=34.77	Pass
			13	20.68	0.37	18.90	<=34.77	Pass
		25	0	20.73	0.37	18.95	<=34.77	Pass
64QAM	701.5	1	0	21.61	0.37	19.83	<=34.77	Pass
			13	21.74	0.37	19.96	<=34.77	Pass
			24	21.80	0.37	20.02	<=34.77	Pass
		12	0	20.61	0.37	18.83	<=34.77	Pass
			6	20.75	0.37	18.97	<=34.77	Pass
			13	20.75	0.37	18.97	<=34.77	Pass
		25	0	20.75	0.37	18.97	<=34.77	Pass
	707.5	1	0	21.73	0.37	19.95	<=34.77	Pass
			13	21.85	0.37	20.07	<=34.77	Pass
			24	21.71	0.37	19.93	<=34.77	Pass
		12	0	20.71	0.37	18.93	<=34.77	Pass
			6	20.66	0.37	18.88	<=34.77	Pass
			13	20.77	0.37	18.99	<=34.77	Pass
		25	0	20.61	0.37	18.83	<=34.77	Pass
	713.5	1	0	21.81	0.37	20.03	<=34.77	Pass
			13	21.83	0.37	20.05	<=34.77	Pass
			24	21.20	0.37	19.42	<=34.77	Pass
		12	0	20.74	0.37	18.96	<=34.77	Pass
			6	20.76	0.37	18.98	<=34.77	Pass
			13	20.60	0.37	18.82	<=34.77	Pass
		25	0	20.67	0.37	18.89	<=34.77	Pass
256QAM	701.5	1	0	17.73	0.37	15.95	<=34.77	Pass
			13	17.62	0.37	15.84	<=34.77	Pass
			24	17.83	0.37	16.05	<=34.77	Pass

	707.5	12	0	17.65	0.37	15.87	<=34.77	Pass
			6	17.77	0.37	15.99	<=34.77	Pass
			13	17.69	0.37	15.91	<=34.77	Pass
		25	0	17.68	0.37	15.90	<=34.77	Pass
			0	17.81	0.37	16.03	<=34.77	Pass
			13	17.77	0.37	15.99	<=34.77	Pass
		1	24	17.88	0.37	16.10	<=34.77	Pass
			0	17.63	0.37	15.85	<=34.77	Pass
			6	17.67	0.37	15.89	<=34.77	Pass
	713.5	12	13	17.77	0.37	15.99	<=34.77	Pass
			0	17.62	0.37	15.84	<=34.77	Pass
			0	17.65	0.37	15.87	<=34.77	Pass
		1	13	17.89	0.37	16.11	<=34.77	Pass
			24	17.50	0.37	15.72	<=34.77	Pass
			0	18.33	0.37	16.55	<=34.77	Pass
		12	6	17.77	0.37	15.99	<=34.77	Pass
			13	17.70	0.37	15.92	<=34.77	Pass
			0	17.90	0.37	16.12	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	22.75	0.37	20.97	<=34.77	Pass
			25	22.80	0.37	21.02	<=34.77	Pass
			49	22.70	0.37	20.92	<=34.77	Pass
		25	0	21.68	0.37	19.90	<=34.77	Pass
			13	21.78	0.37	20.00	<=34.77	Pass
			25	21.59	0.37	19.81	<=34.77	Pass
		50	0	21.70	0.37	19.92	<=34.77	Pass
			0	22.69	0.37	20.91	<=34.77	Pass
			25	22.75	0.37	20.97	<=34.77	Pass
	707.5	1	49	22.65	0.37	20.87	<=34.77	Pass
			0	21.71	0.37	19.93	<=34.77	Pass
			13	21.68	0.37	19.90	<=34.77	Pass
		25	25	21.77	0.37	19.99	<=34.77	Pass
			0	21.69	0.37	19.91	<=34.77	Pass
			0	22.62	0.37	20.84	<=34.77	Pass
		1	25	22.79	0.37	21.01	<=34.77	Pass
			49	22.68	0.37	20.90	<=34.77	Pass
			0	21.68	0.37	19.90	<=34.77	Pass
	711	25	13	21.76	0.37	19.98	<=34.77	Pass
			25	21.75	0.37	19.97	<=34.77	Pass
			0	21.76	0.37	19.98	<=34.77	Pass
16QAM	704	1	0	21.81	0.37	20.03	<=34.77	Pass
			25	21.98	0.37	20.20	<=34.77	Pass
			49	22.13	0.37	20.35	<=34.77	Pass
		25	0	20.70	0.37	18.92	<=34.77	Pass
			13	20.76	0.37	18.98	<=34.77	Pass
			0	20.76	0.37	18.98	<=34.77	Pass

	707.5	50	25	20.83	0.37	19.05	<=34.77	Pass
			0	20.78	0.37	19.00	<=34.77	Pass
			0	21.80	0.37	20.02	<=34.77	Pass
		1	25	22.10	0.37	20.32	<=34.77	Pass
			49	21.92	0.37	20.14	<=34.77	Pass
			0	20.71	0.37	18.93	<=34.77	Pass
		25	13	20.82	0.37	19.04	<=34.77	Pass
			25	20.75	0.37	18.97	<=34.77	Pass
			0	20.71	0.37	18.93	<=34.77	Pass
		1	0	22.05	0.37	20.27	<=34.77	Pass
			25	21.97	0.37	20.19	<=34.77	Pass
			49	21.92	0.37	20.14	<=34.77	Pass
		25	0	20.75	0.37	18.97	<=34.77	Pass
			13	20.73	0.37	18.95	<=34.77	Pass
			25	20.83	0.37	19.05	<=34.77	Pass
		50	0	20.87	0.37	19.09	<=34.77	Pass
64QAM	704	1	0	21.69	0.37	19.91	<=34.77	Pass
			25	21.93	0.37	20.15	<=34.77	Pass
			49	21.62	0.37	19.84	<=34.77	Pass
		25	0	20.69	0.37	18.91	<=34.77	Pass
			13	20.75	0.37	18.97	<=34.77	Pass
			25	20.66	0.37	18.88	<=34.77	Pass
		50	0	20.69	0.37	18.91	<=34.77	Pass
	707.5	1	0	21.34	0.37	19.56	<=34.77	Pass
			25	21.86	0.37	20.08	<=34.77	Pass
			49	21.77	0.37	19.99	<=34.77	Pass
		25	0	20.69	0.37	18.91	<=34.77	Pass
			13	20.68	0.37	18.90	<=34.77	Pass
			25	20.67	0.37	18.89	<=34.77	Pass
		50	0	20.77	0.37	18.99	<=34.77	Pass
	711	1	0	21.72	0.37	19.94	<=34.77	Pass
			25	21.86	0.37	20.08	<=34.77	Pass
			49	21.71	0.37	19.93	<=34.77	Pass
		25	0	20.74	0.37	18.96	<=34.77	Pass
			13	20.83	0.37	19.05	<=34.77	Pass
			25	20.69	0.37	18.91	<=34.77	Pass
		50	0	20.75	0.37	18.97	<=34.77	Pass
256QAM	704	1	0	17.65	0.37	15.87	<=34.77	Pass
			25	17.78	0.37	16.00	<=34.77	Pass
			49	17.55	0.37	15.77	<=34.77	Pass
		25	0	17.71	0.37	15.93	<=34.77	Pass
			13	17.69	0.37	15.91	<=34.77	Pass
			25	17.75	0.37	15.97	<=34.77	Pass
		50	0	17.82	0.37	16.04	<=34.77	Pass
	707.5	1	0	17.82	0.37	16.04	<=34.77	Pass
			25	17.77	0.37	15.99	<=34.77	Pass
			49	17.67	0.37	15.89	<=34.77	Pass
		25	0	17.72	0.37	15.94	<=34.77	Pass
			13	17.81	0.37	16.03	<=34.77	Pass
			25	17.66	0.37	15.88	<=34.77	Pass
		50	0	17.68	0.37	15.90	<=34.77	Pass
	711	1	0	17.59	0.37	15.81	<=34.77	Pass
			25	17.95	0.37	16.17	<=34.77	Pass



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			49	17.25	0.37	15.47	<=34.77	Pass
		25	0	17.90	0.37	16.12	<=34.77	Pass
			13	17.76	0.37	15.98	<=34.77	Pass
			25	17.84	0.37	16.06	<=34.77	Pass
		50	0	17.81	0.37	16.03	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	707.5	50	0	20	LV	-0.081	-0.0001	-2.5 to 2.5	Pass
					NV	0.605	0.0009	-2.5 to 2.5	Pass
					HV	0.369	0.0005	-2.5 to 2.5	Pass
				-30	NV	0.420	0.0006	-2.5 to 2.5	Pass
				-20	NV	0.628	0.0009	-2.5 to 2.5	Pass
				-10	NV	0.214	0.0003	-2.5 to 2.5	Pass
				0	NV	-0.096	-0.0001	-2.5 to 2.5	Pass
				10	NV	0.247	0.0003	-2.5 to 2.5	Pass
				30	NV	0.019	0.0000	-2.5 to 2.5	Pass
				40	NV	-0.486	-0.0007	-2.5 to 2.5	Pass
				50	NV	0.383	0.0005	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.089	/	Pass
	16QAM	707.5	6	0	1.091	/	Pass
	64QAM	707.5	6	0	1.092	/	Pass
	256QAM	707.5	6	0	1.091	/	Pass
3	QPSK	707.5	15	0	2.695	/	Pass
	16QAM	707.5	15	0	2.695	/	Pass
	64QAM	707.5	15	0	2.695	/	Pass
	256QAM	707.5	15	0	2.692	/	Pass
5	QPSK	707.5	25	0	4.539	/	Pass
	16QAM	707.5	25	0	4.542	/	Pass



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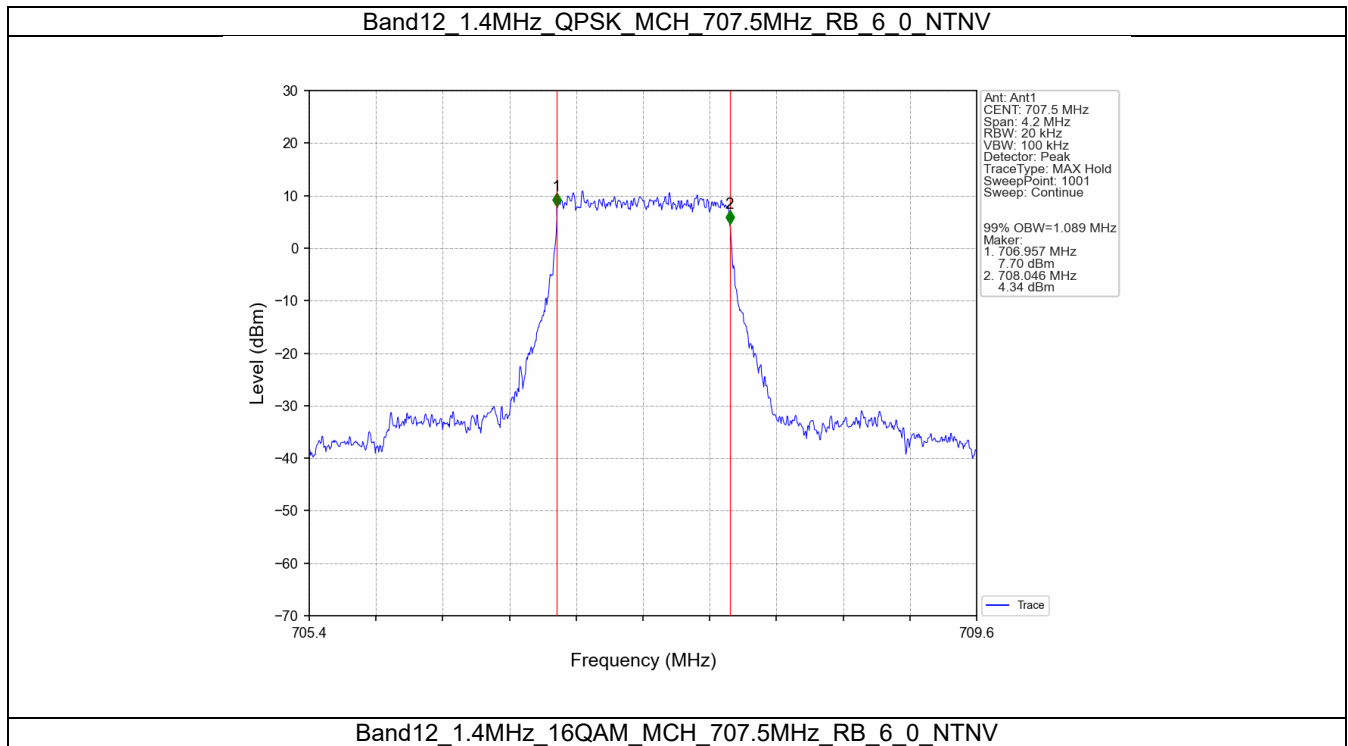
10	64QAM	707.5	25	0	4.536	/	Pass
	256QAM	707.5	25	0	4.536	/	Pass
	QPSK	707.5	50	0	8.964	/	Pass
	16QAM	707.5	50	0	8.981	/	Pass
	64QAM	707.5	50	0	8.974	/	Pass
	256QAM	707.5	50	0	8.956	/	Pass

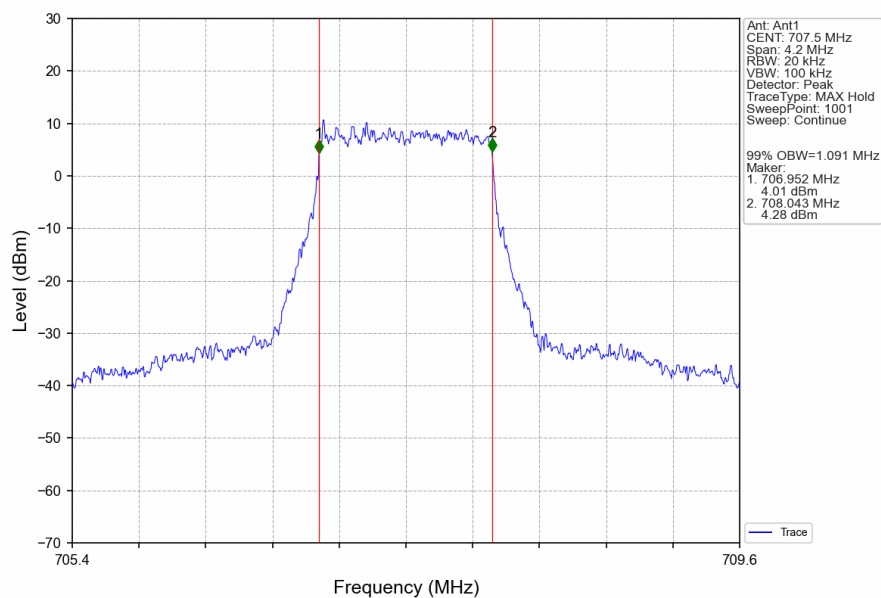
3.1.2 Band12_XDB

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.312	/	Pass
	16QAM	707.5	6	0	1.322	/	Pass
	64QAM	707.5	6	0	1.343	/	Pass
	256QAM	707.5	6	0	1.295	/	Pass
3	QPSK	707.5	15	0	2.980	/	Pass
	16QAM	707.5	15	0	2.962	/	Pass
	64QAM	707.5	15	0	2.961	/	Pass
	256QAM	707.5	15	0	2.973	/	Pass
5	QPSK	707.5	25	0	5.173	/	Pass
	16QAM	707.5	25	0	5.154	/	Pass
	64QAM	707.5	25	0	5.199	/	Pass
	256QAM	707.5	25	0	5.182	/	Pass
10	QPSK	707.5	50	0	9.808	/	Pass
	16QAM	707.5	50	0	9.903	/	Pass
	64QAM	707.5	50	0	9.811	/	Pass
	256QAM	707.5	50	0	9.847	/	Pass

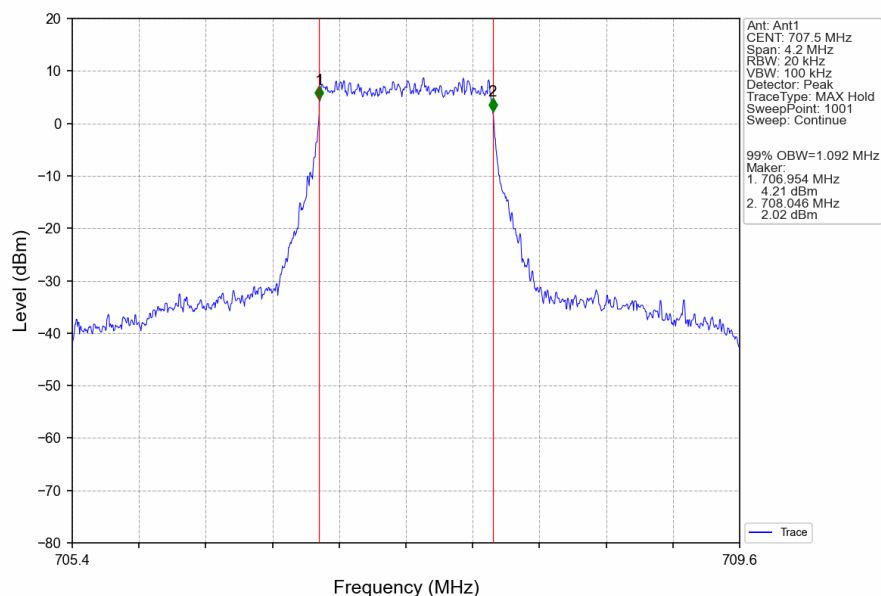
3.2 Test Graph

3.2.1 Band12_OBW

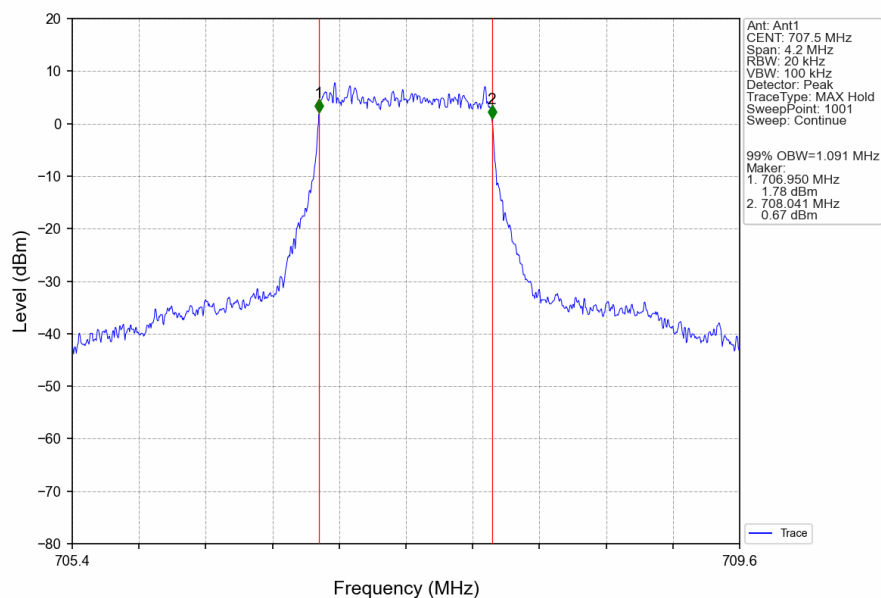




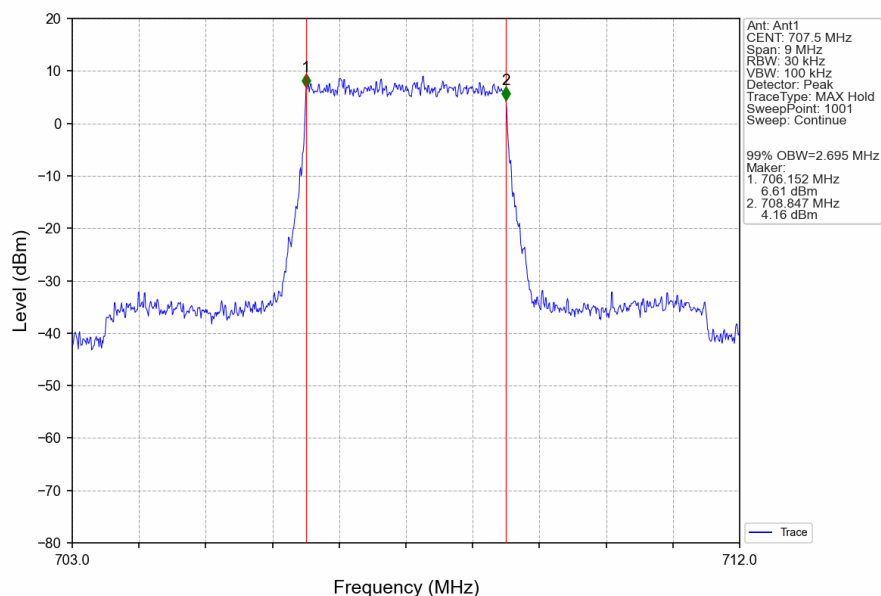
Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



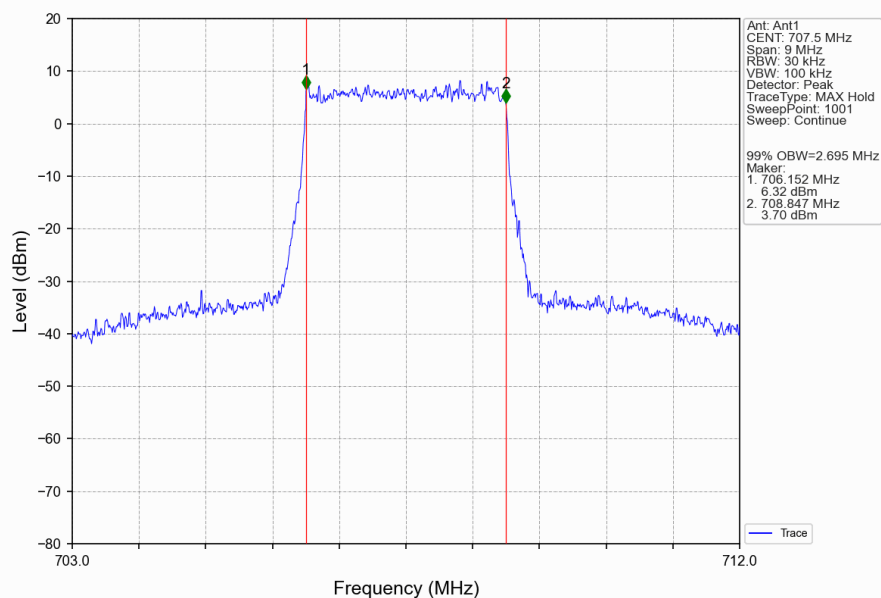
Band12_1.4MHz_256QAM_MCH_707.5MHz_RB_6_0_NTNV



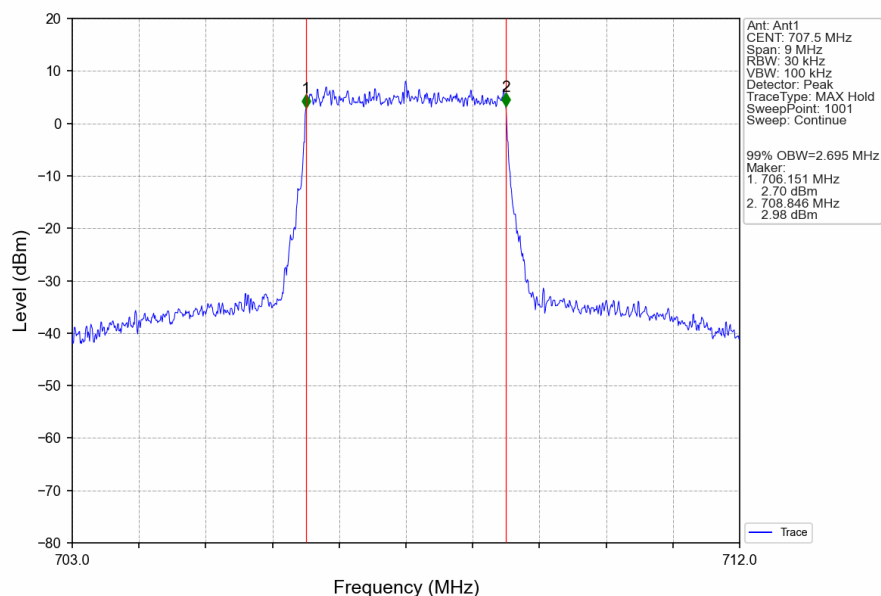
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



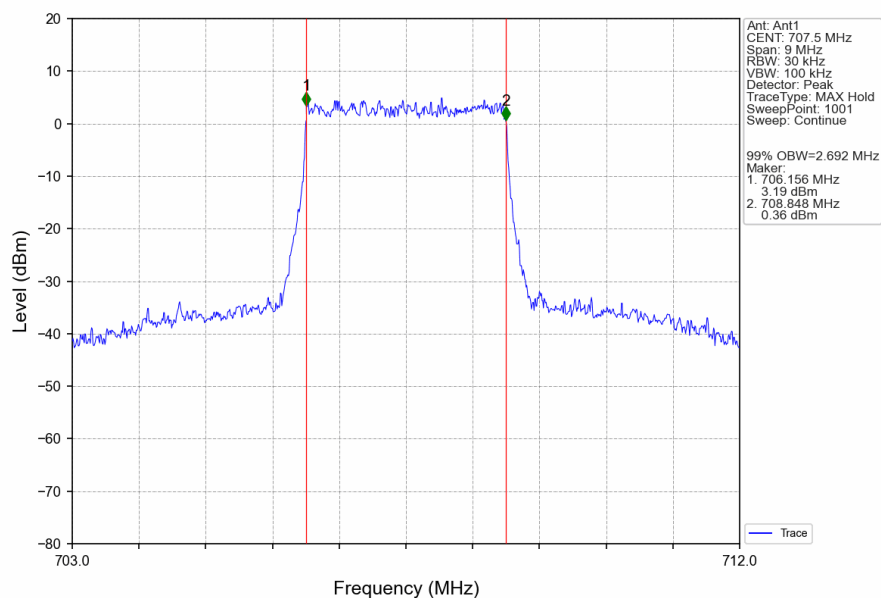
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



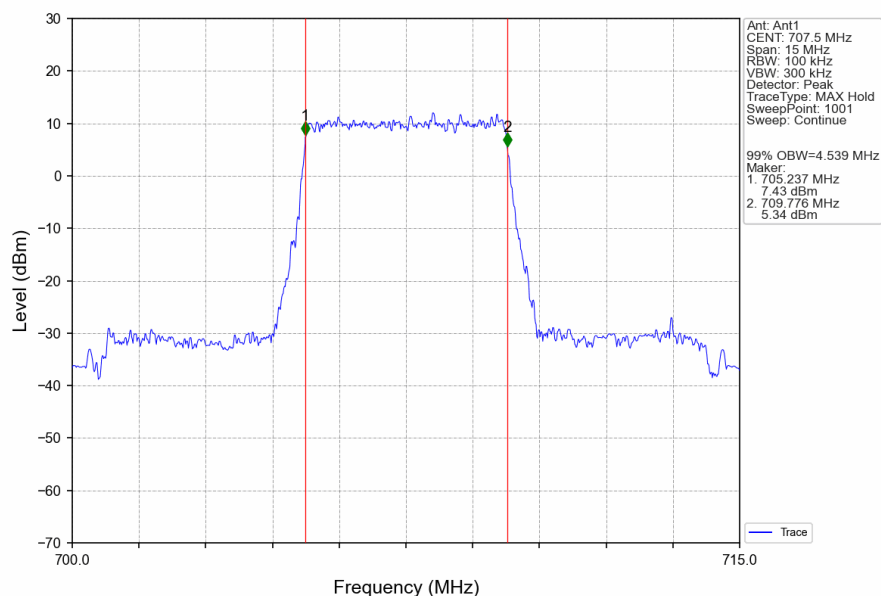
Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



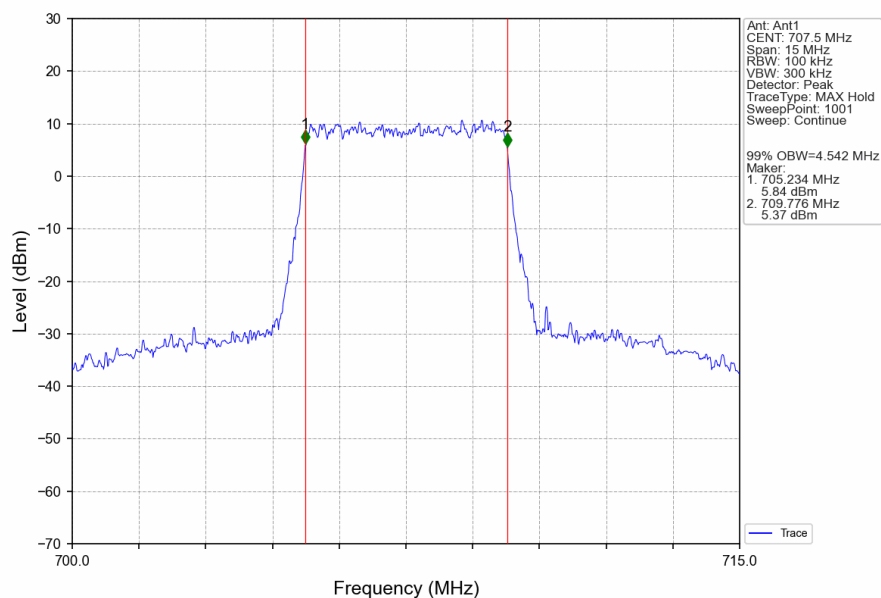
Band12_3MHz_256QAM_MCH_707.5MHz_RB_15_0_NTNV



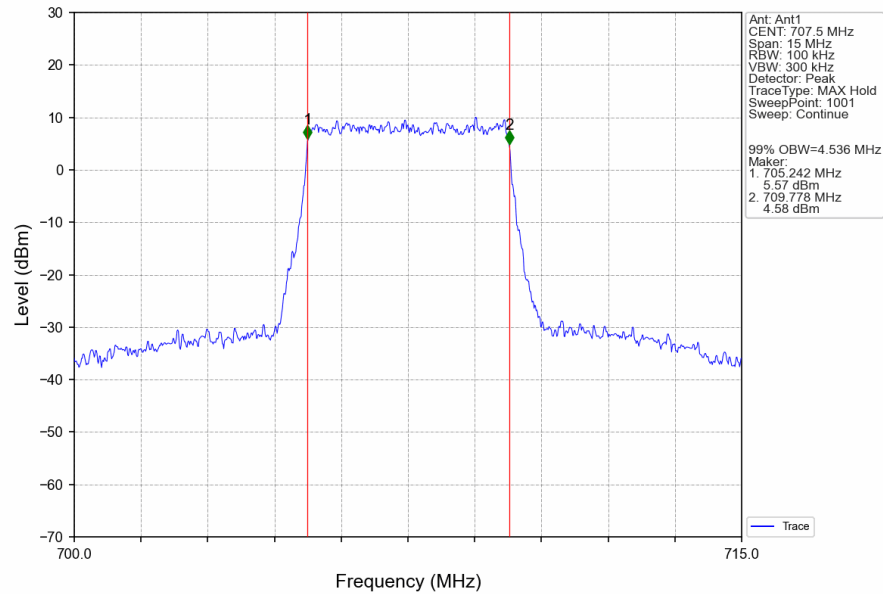
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



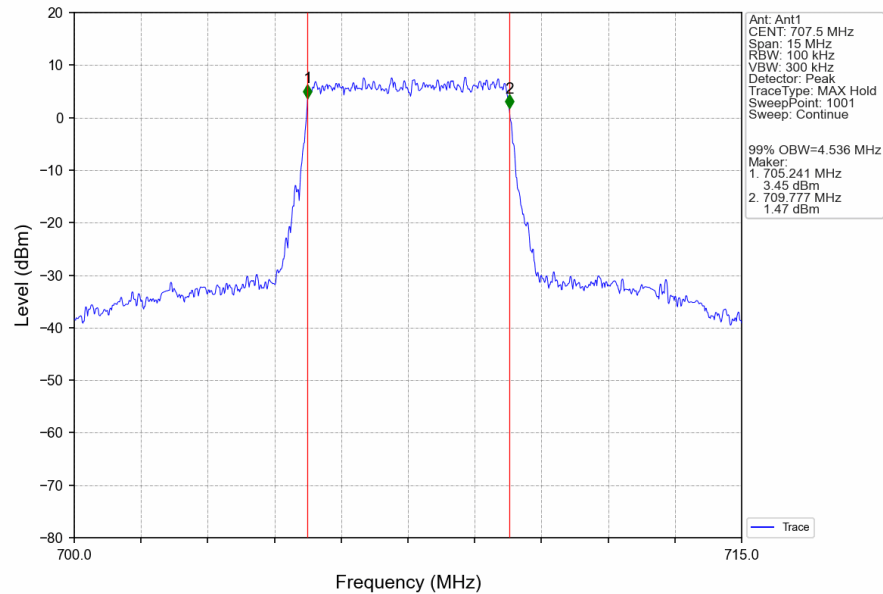
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



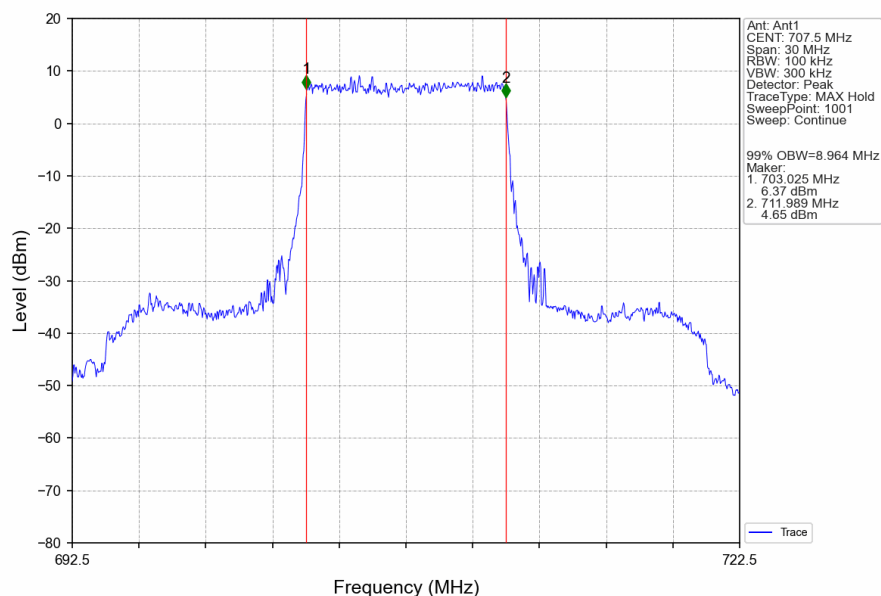
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



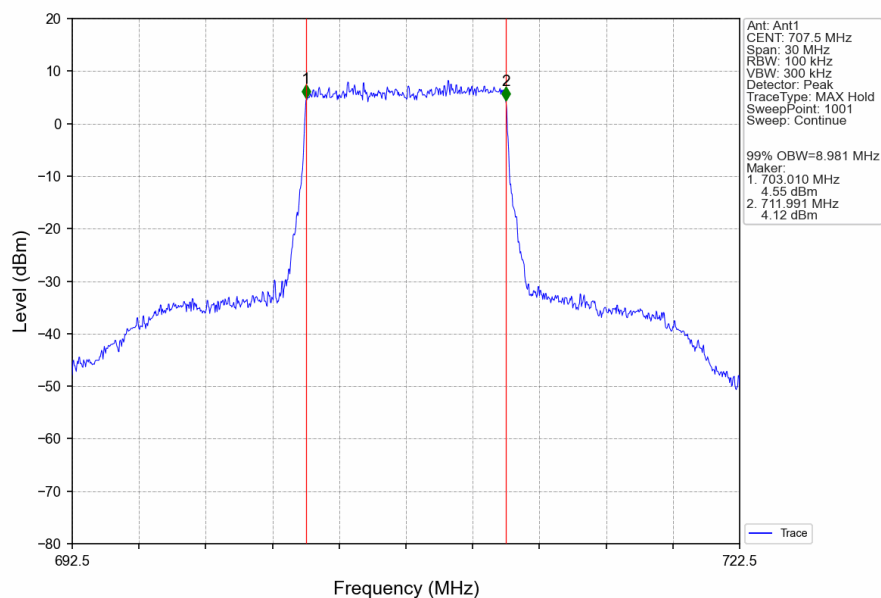
Band12_5MHz_256QAM_MCH_707.5MHz_RB_25_0_NTNV



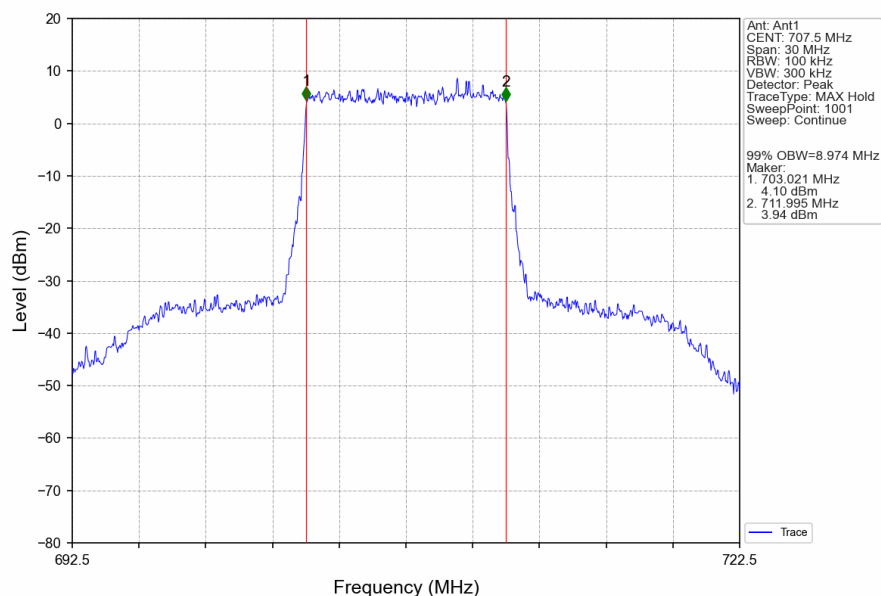
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



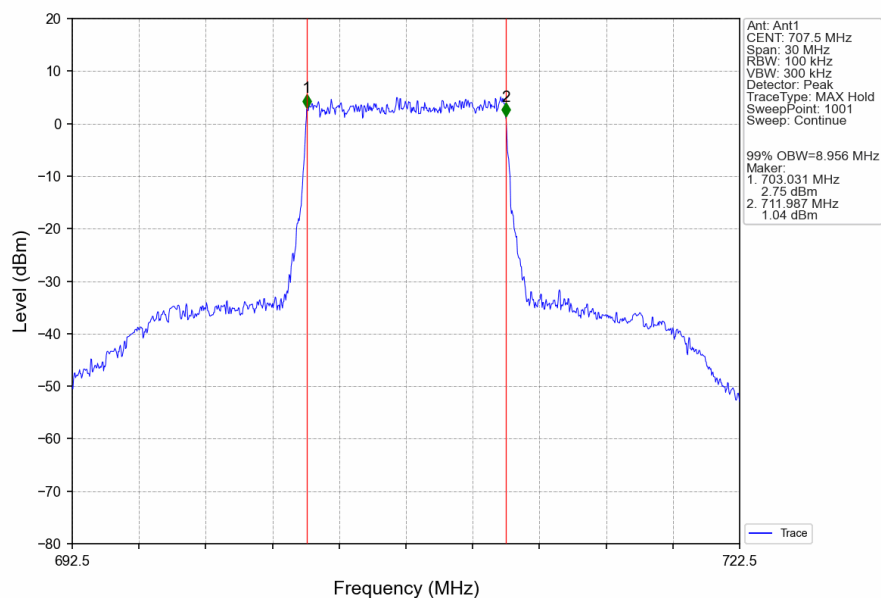
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



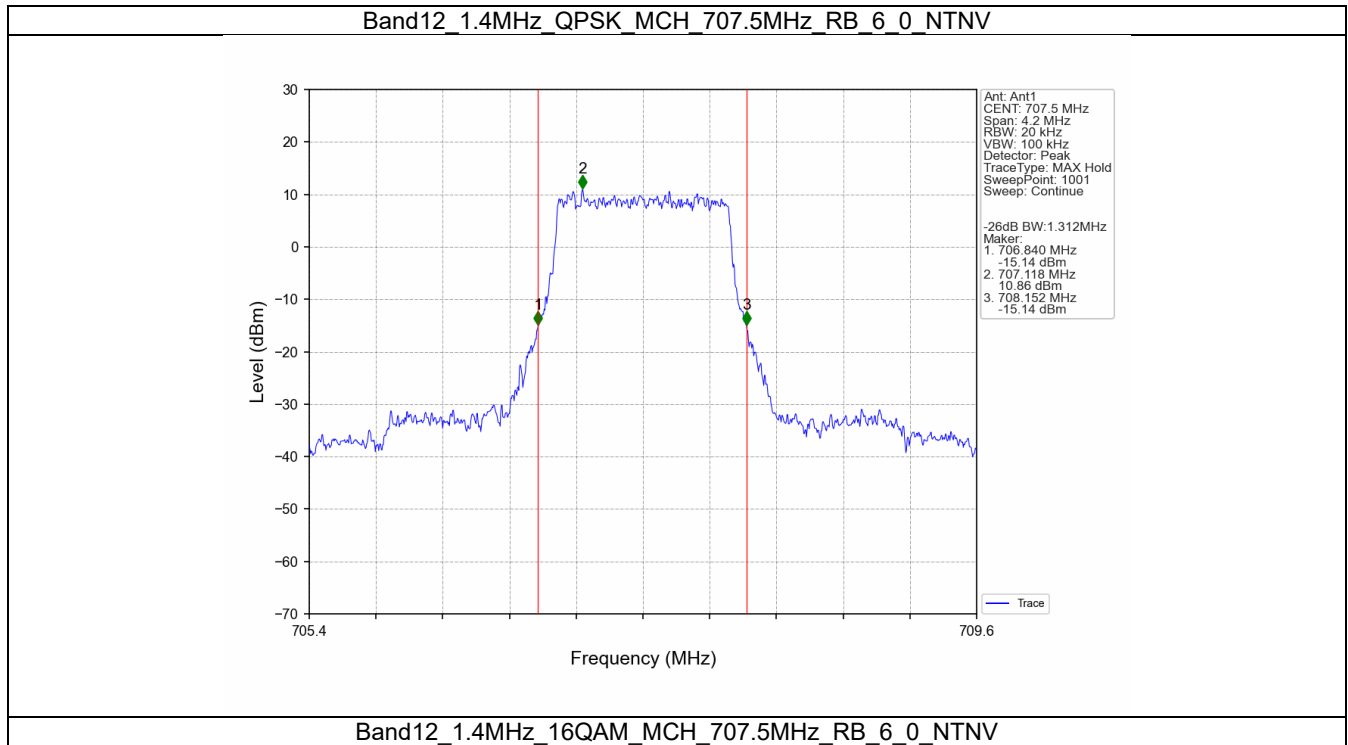
Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV

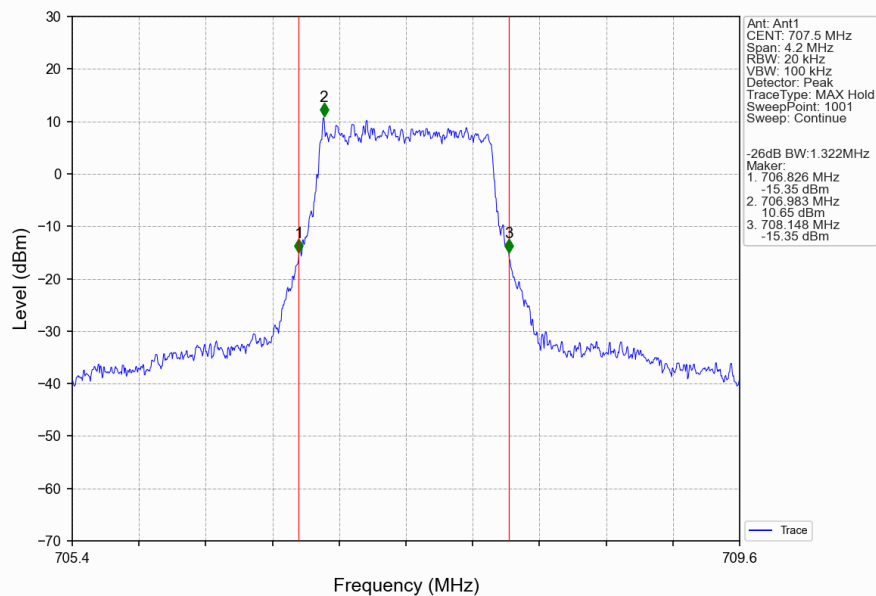


Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV

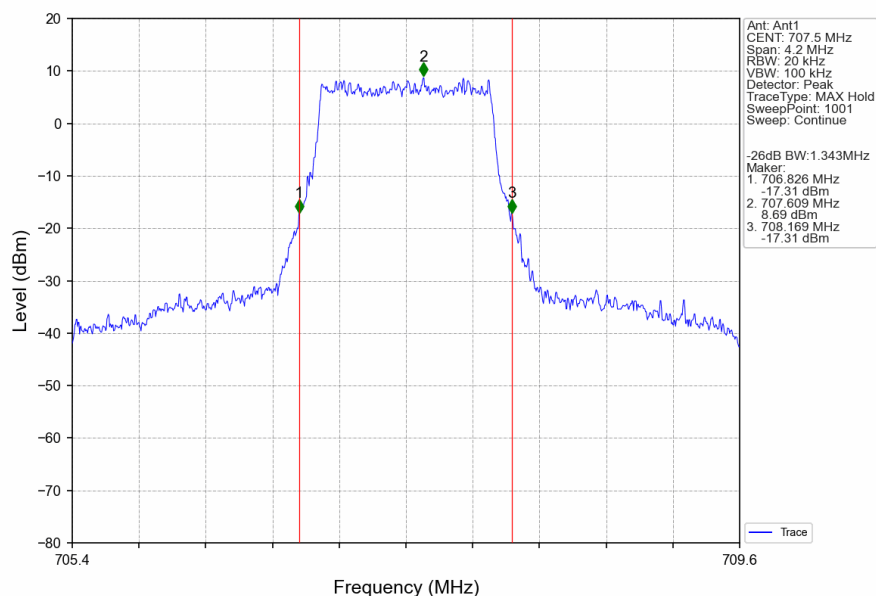


3.2.2 Band12_XDB

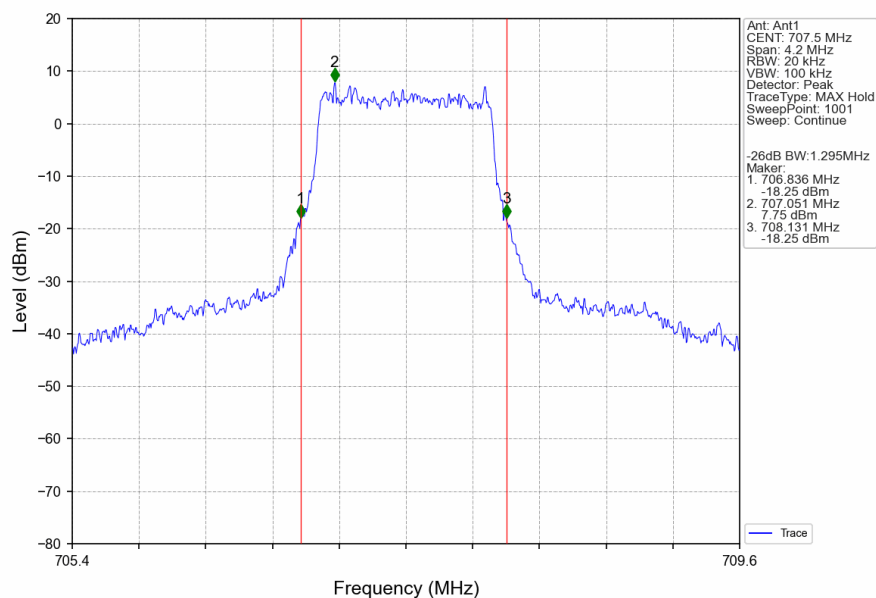




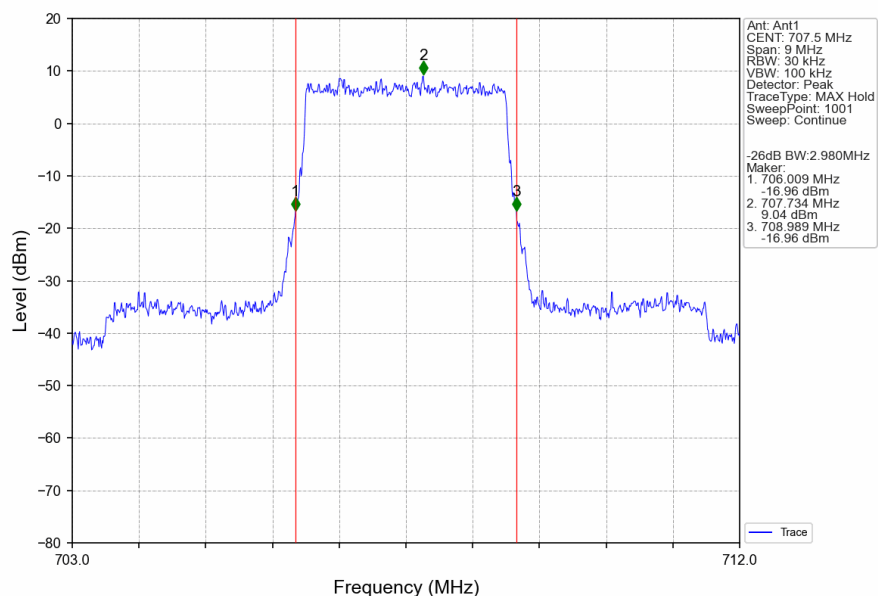
Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



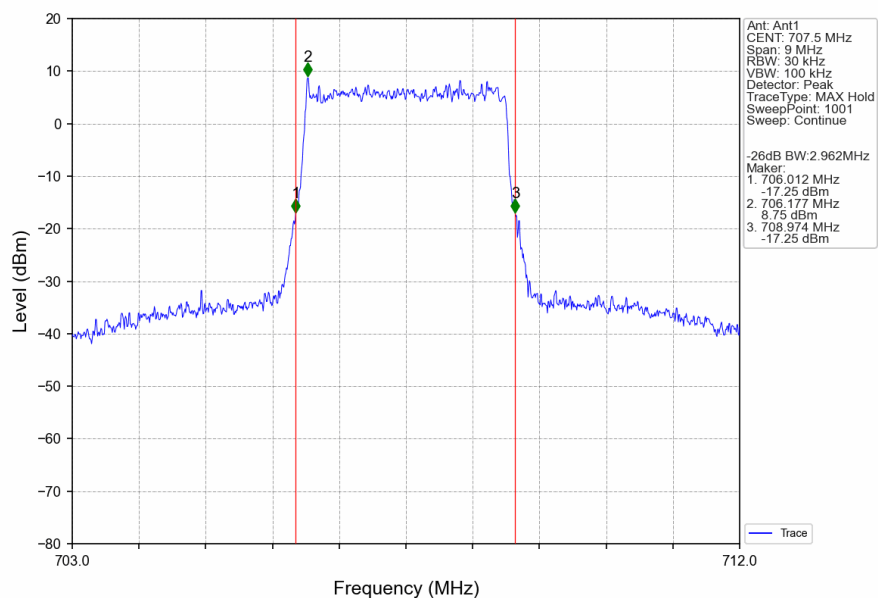
Band12_1.4MHz_256QAM_MCH_707.5MHz_RB_6_0_NTNV



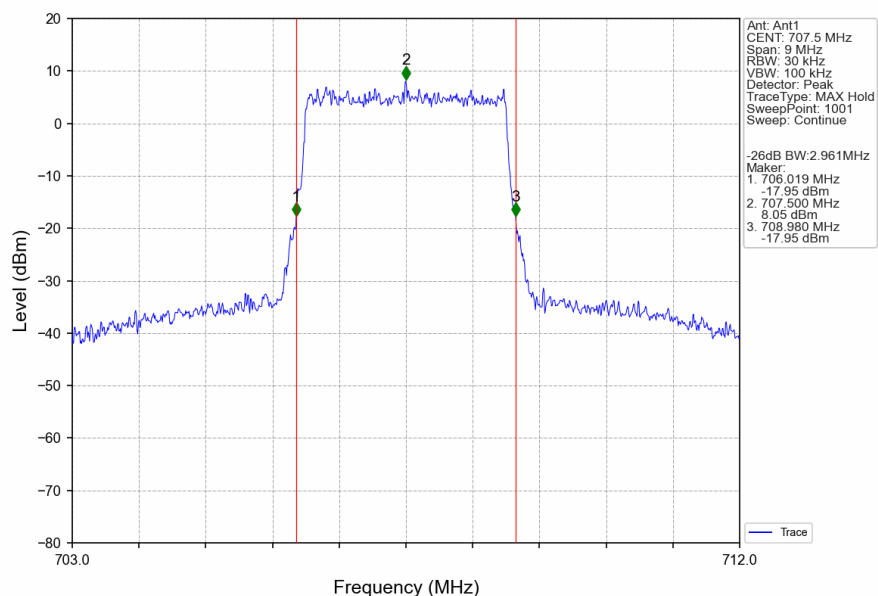
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



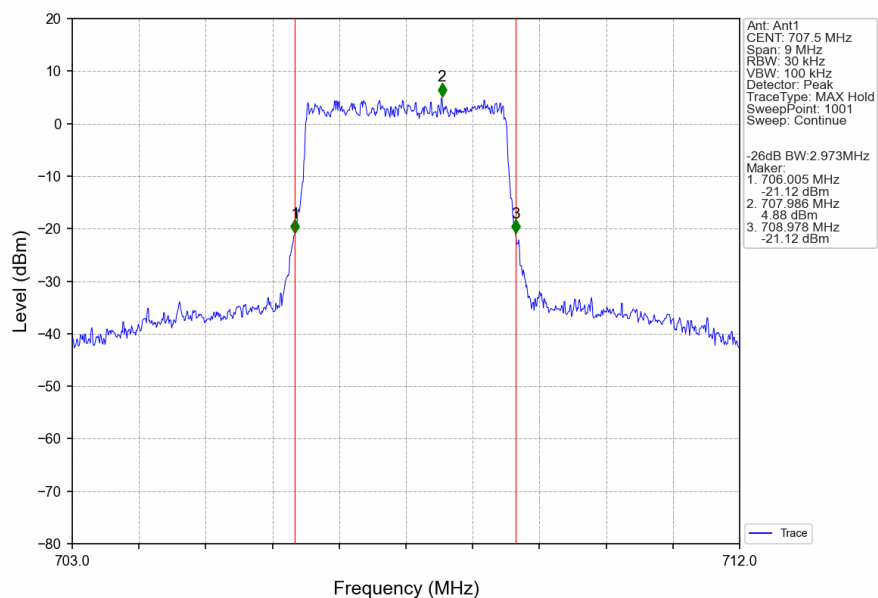
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



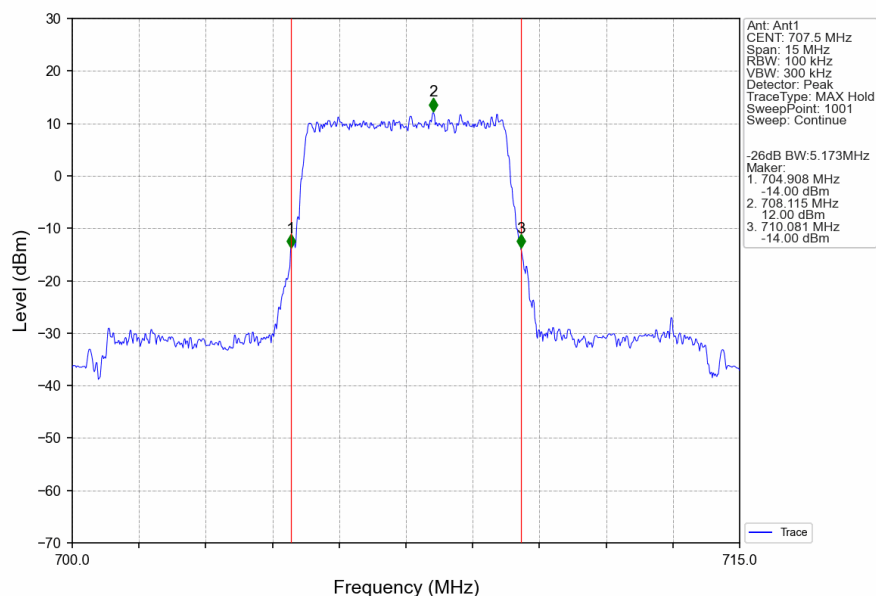
Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



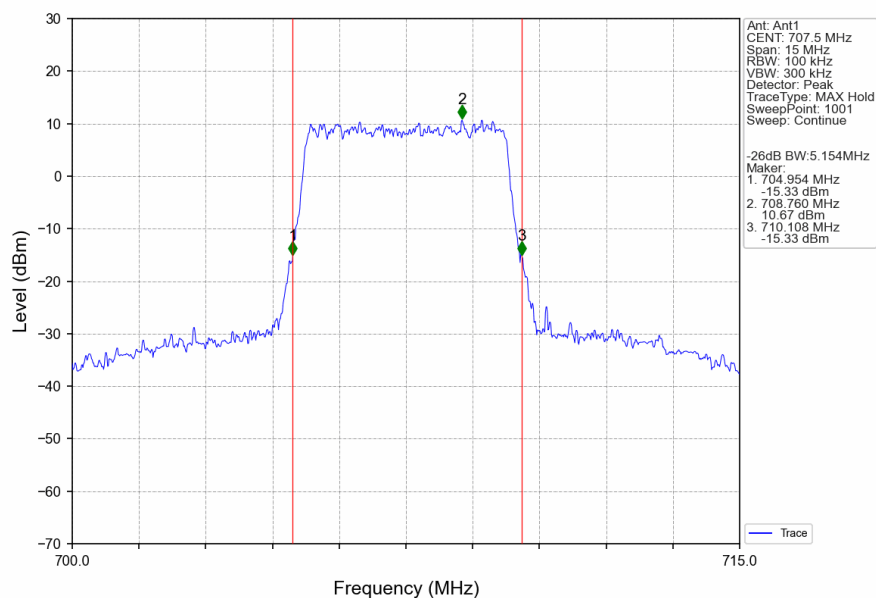
Band12_3MHz_256QAM_MCH_707.5MHz_RB_15_0_NTNV



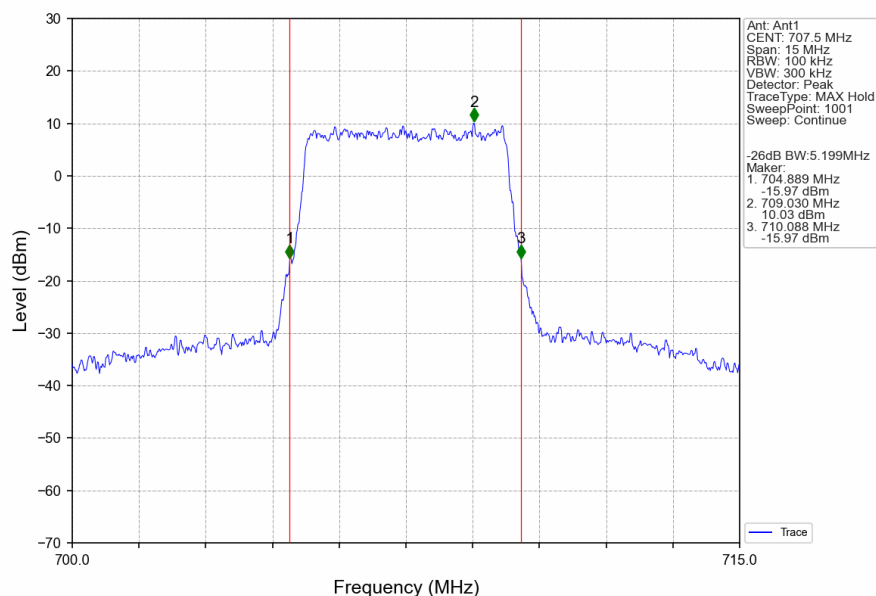
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



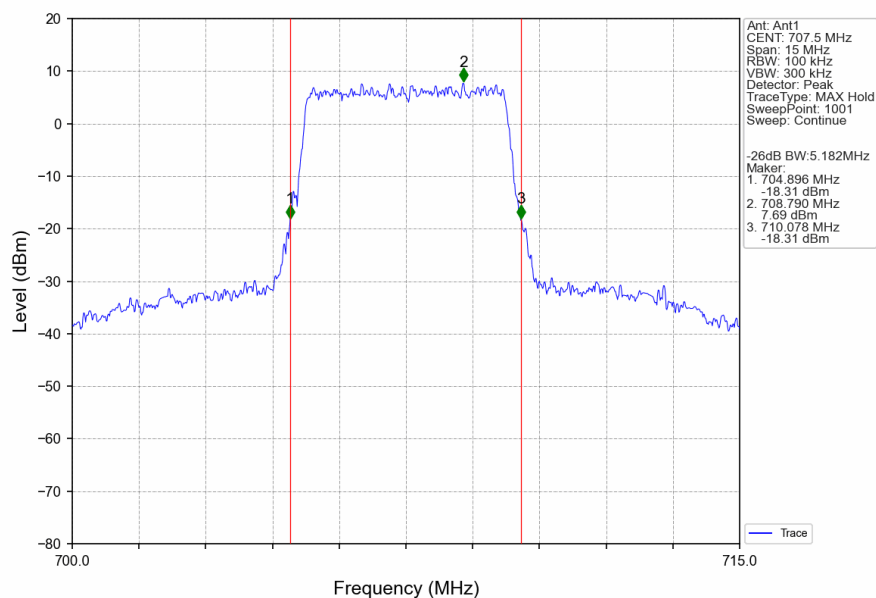
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



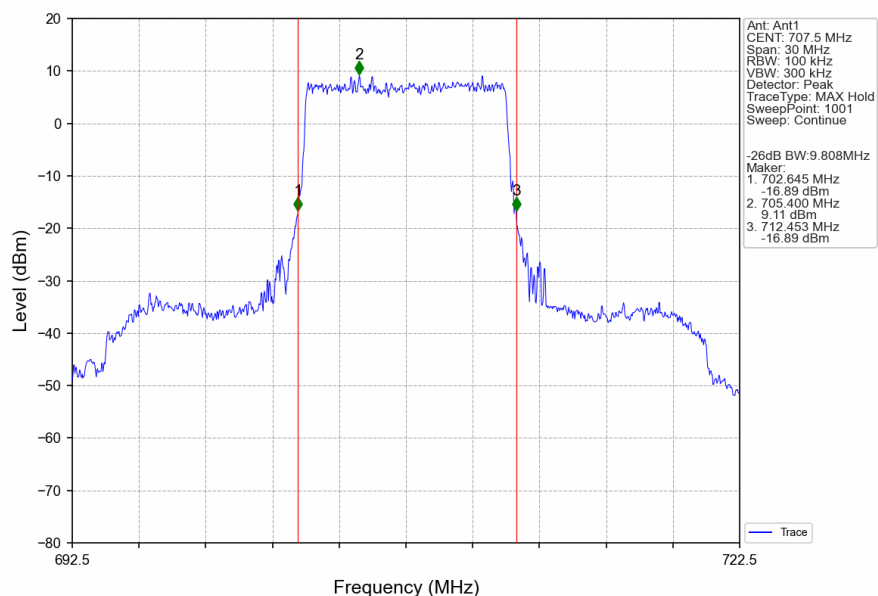
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



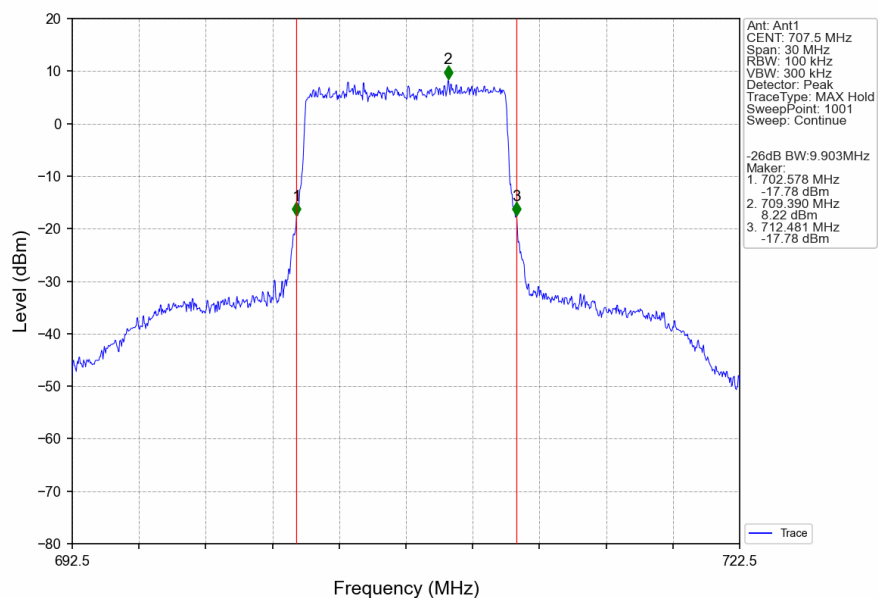
Band12_5MHz_256QAM_MCH_707.5MHz_RB_25_0_NTNV



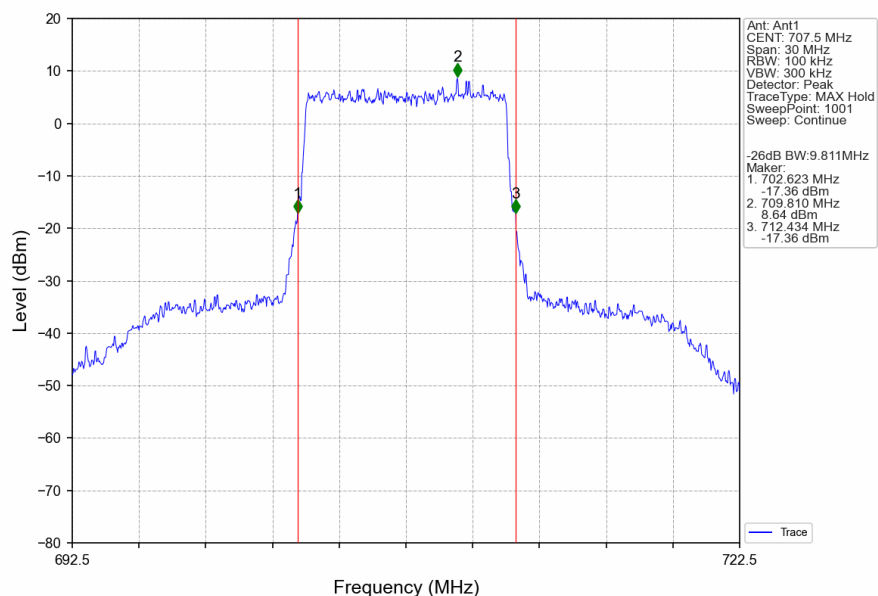
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



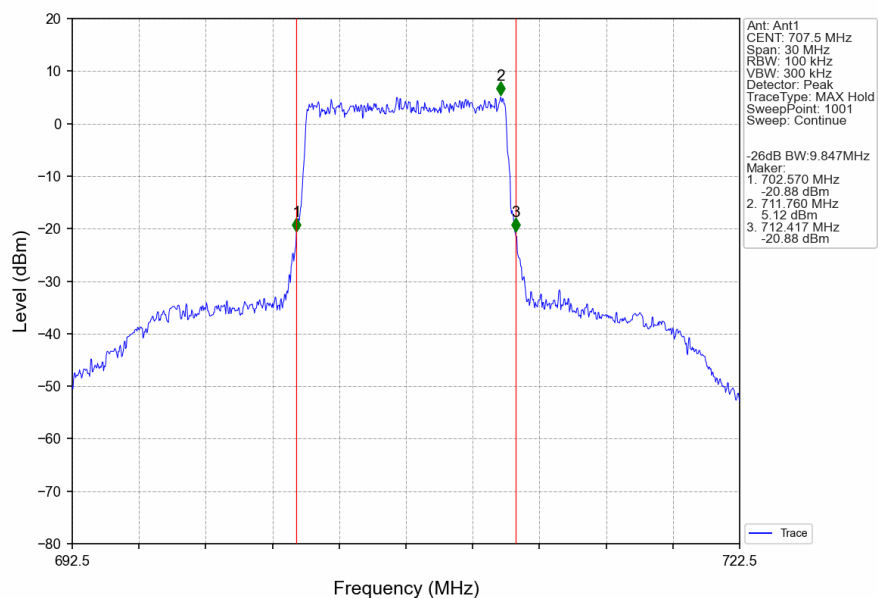
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV





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4. Peak-Average Ratio

4.1 Test Result

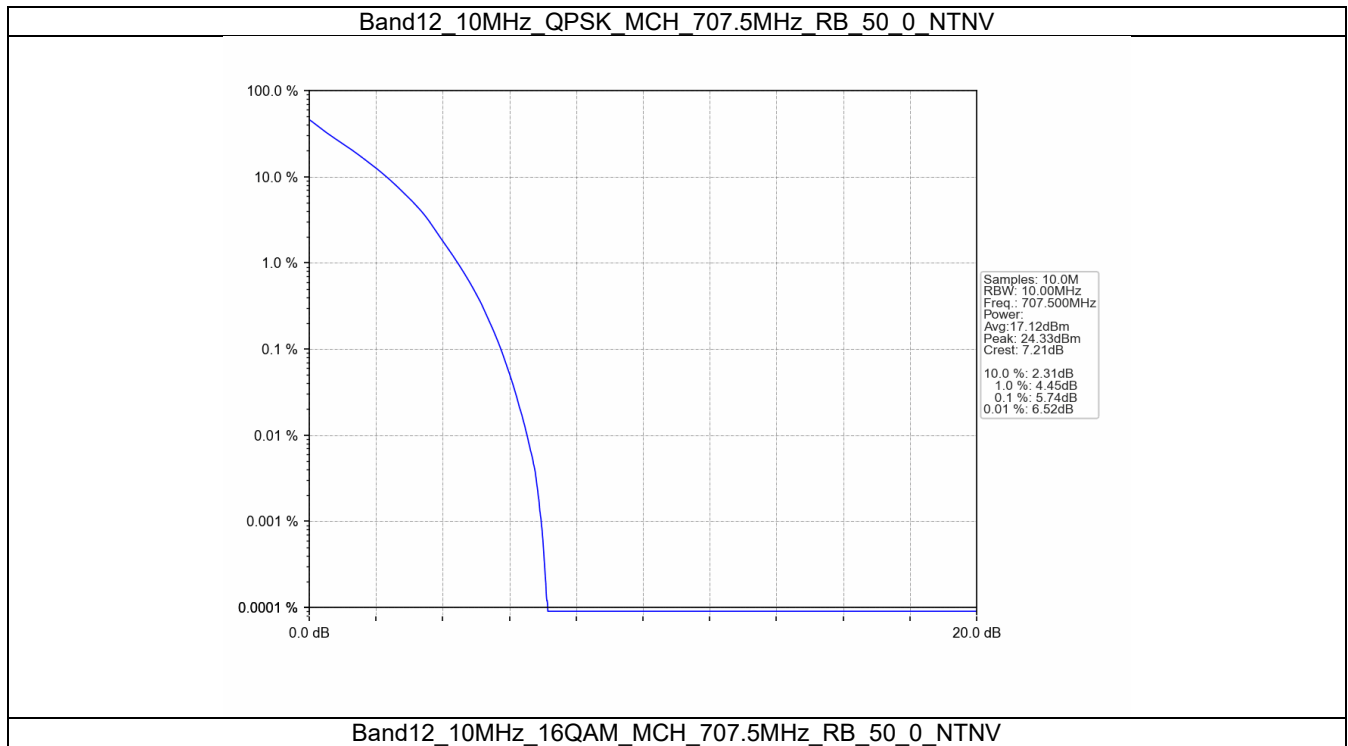
4.1.1 B12_10MHz

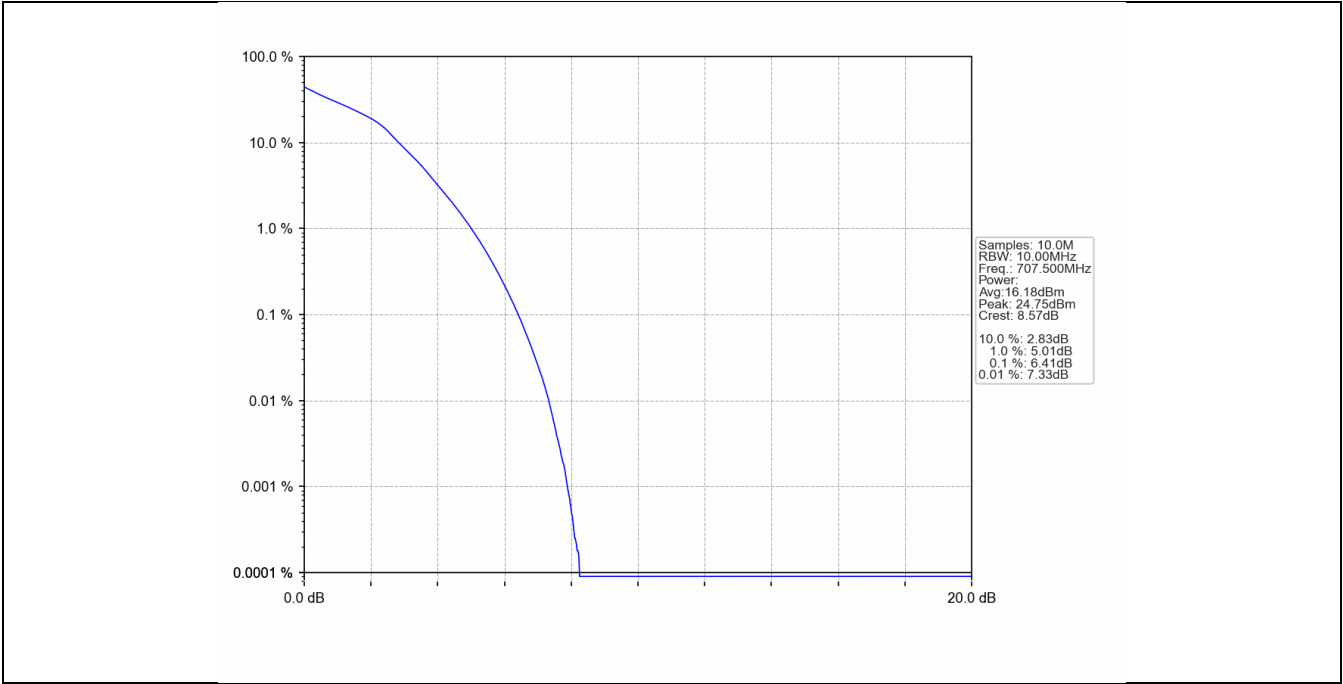
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	5.74	<=13	Pass
16QAM	707.5	50	0	6.41	<=13	Pass
64QAM	707.5	50	0	6.61	<=13	Pass
256QAM	707.5	50	0	6.68	<=13	Pass



4.2 Test Graph

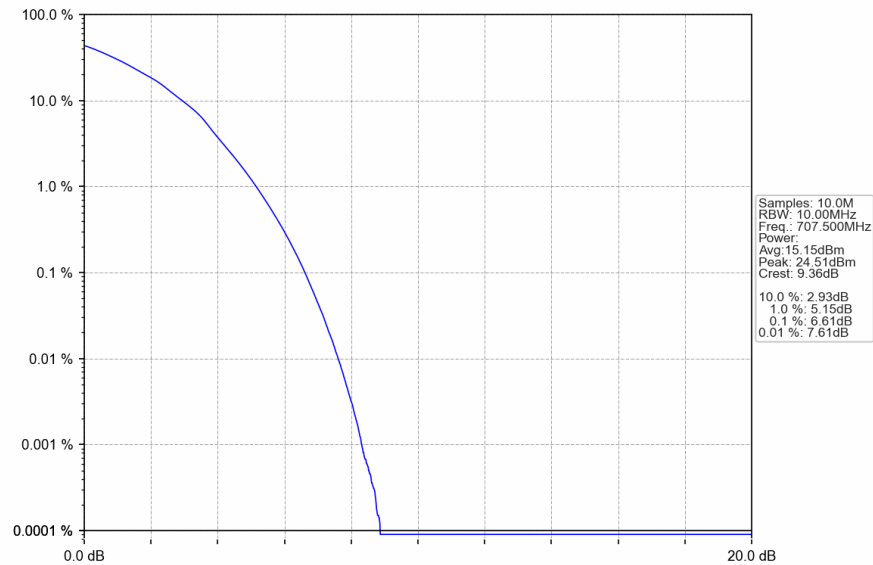
4.2.1 B12_10MHz



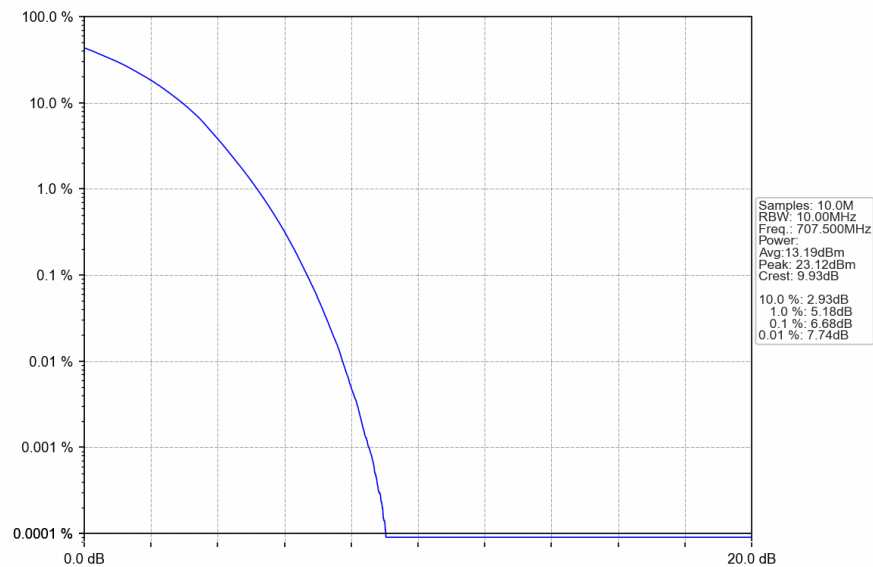




Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV





5. Spurious Emission

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	699.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	715.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	700.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	714.5	1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	701.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

5.1.4 B12_10MHz

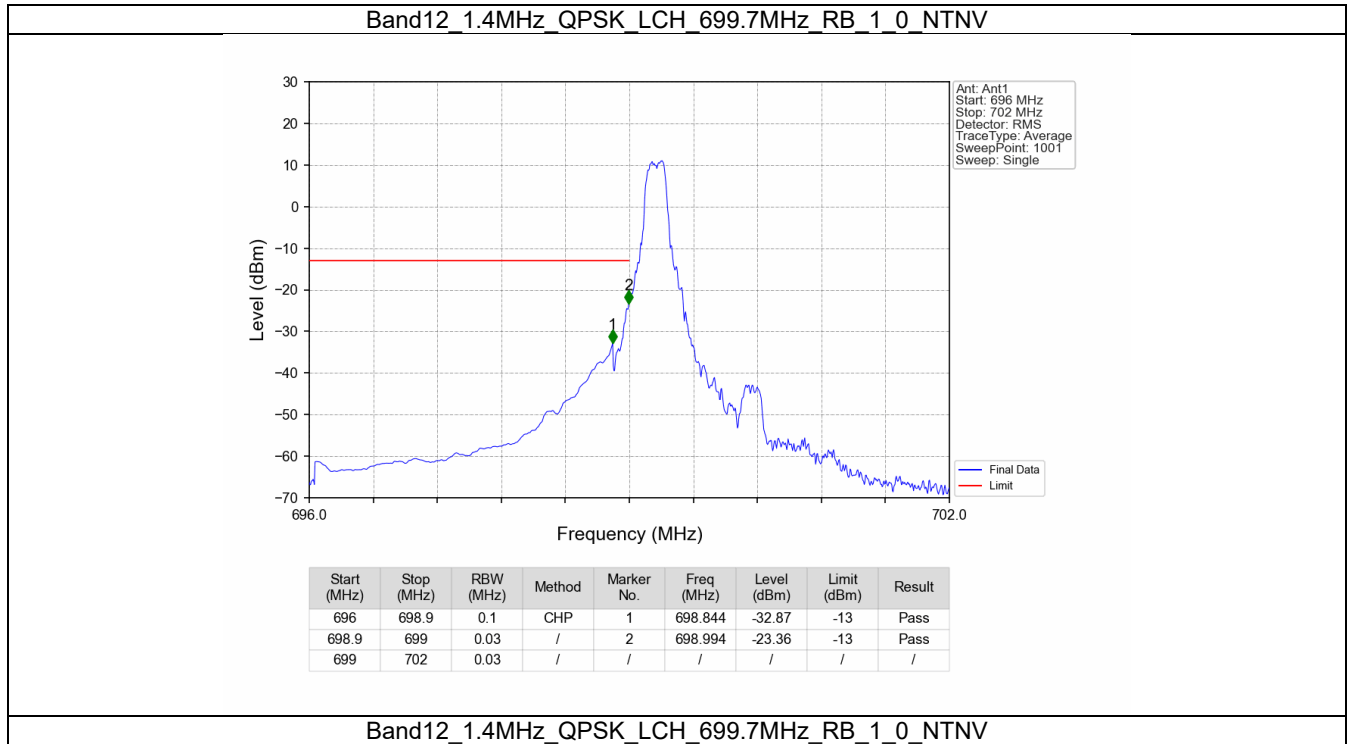
Band: 12 / Bandwidth: 10MHz / NTNV				
Modulation	Frequency	RB Allocation	Spurious Emission	Verdict

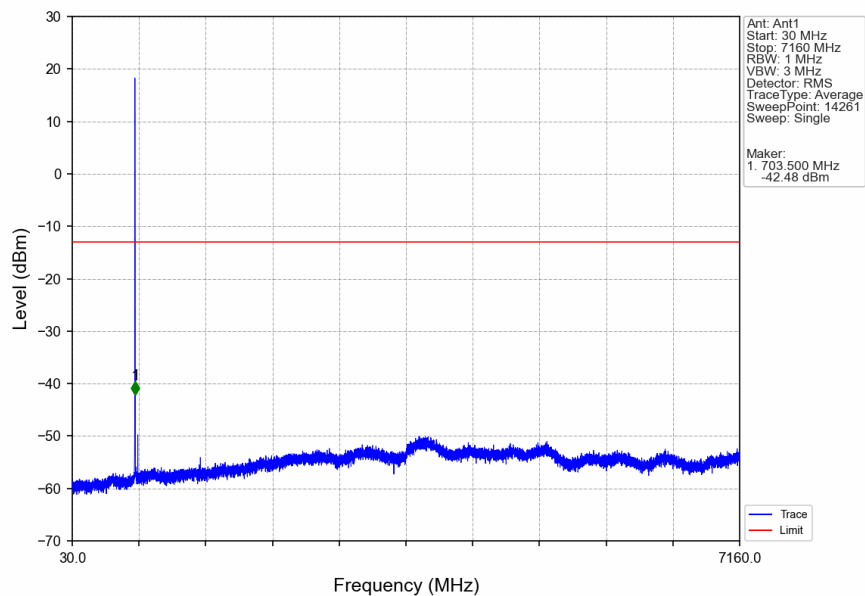


	(MHz)	Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

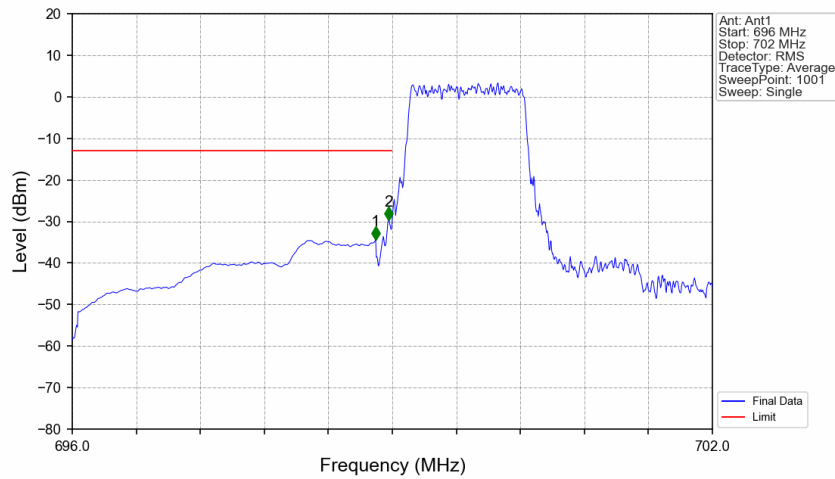
5.2 Test Graph

5.2.1 B12_1.4MHz



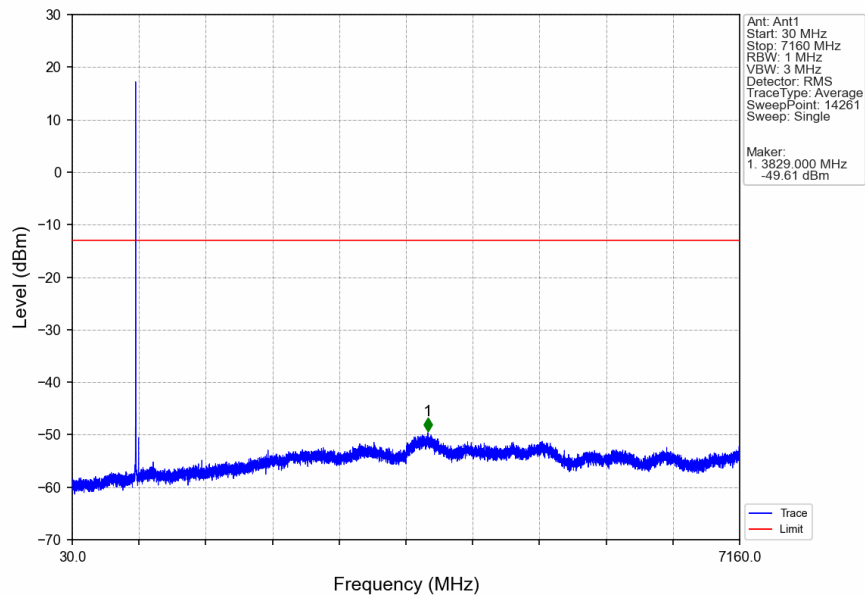


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

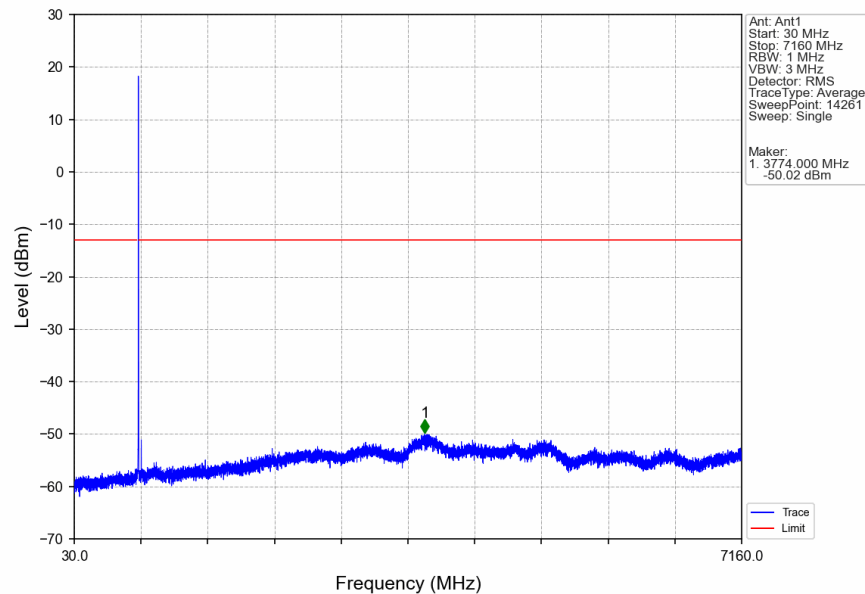


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-34.37	-13	Pass
698.9	699	0.03	/	2	698.964	-29.66	-13	Pass
699	702	0.03	/	/	/	/	/	/

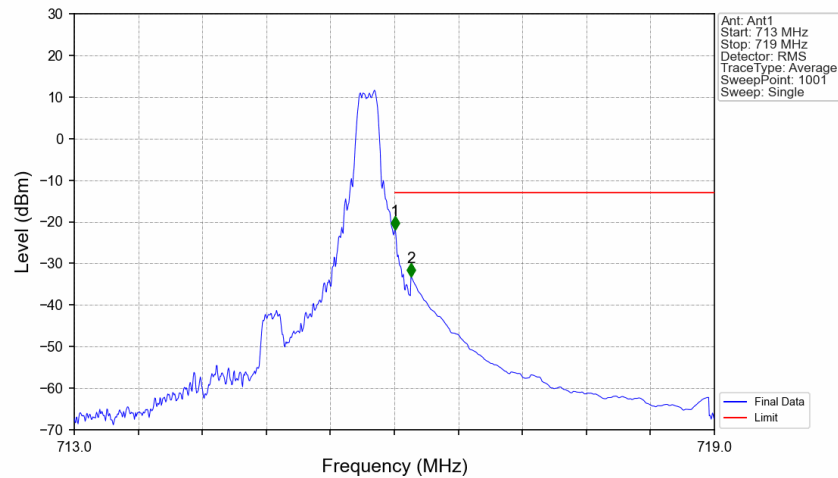
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

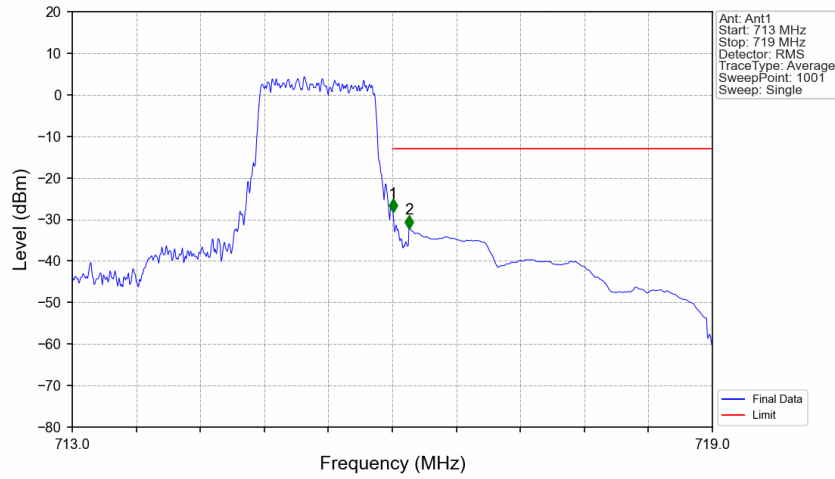


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



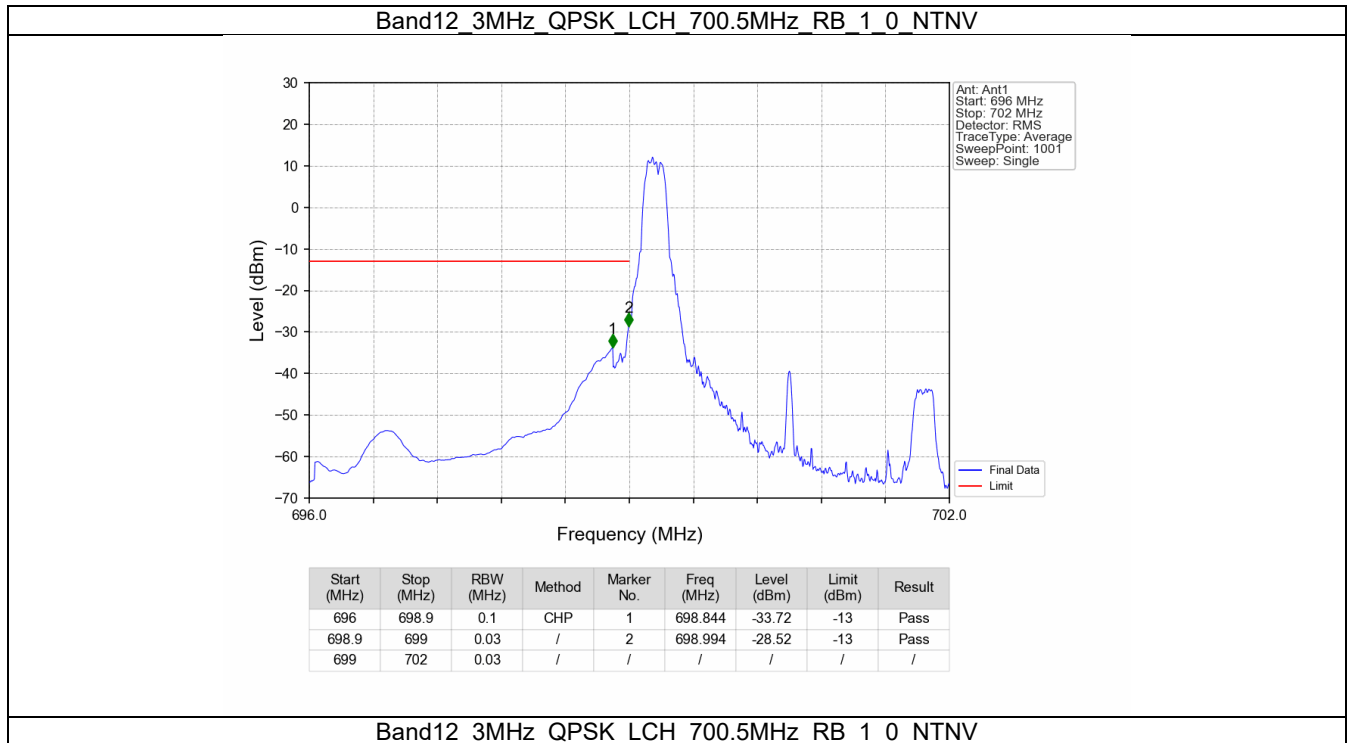
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-21.80	-13	Pass
716.1	719	0.1	CHP	2	716.156	-33.10	-13	Pass

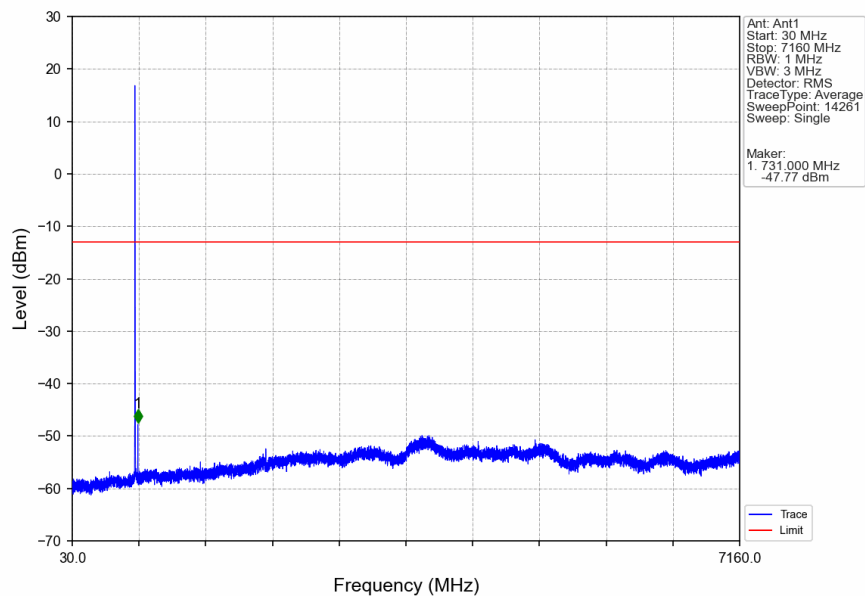
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



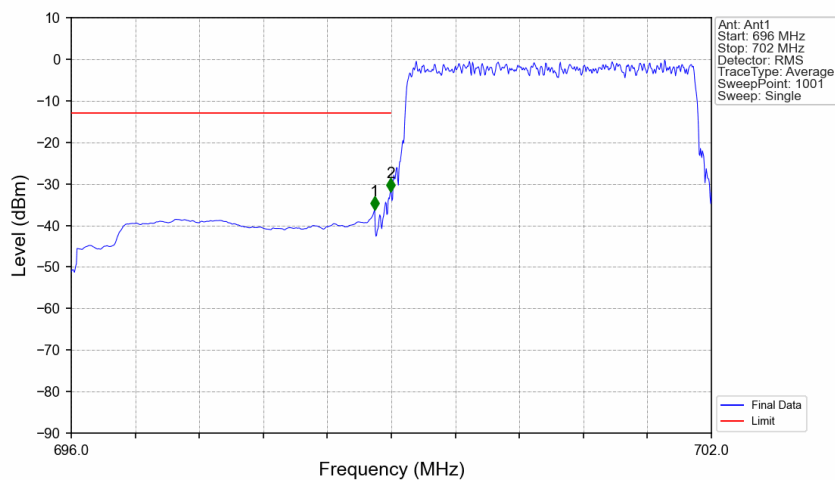
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-28.20	-13	Pass
716.1	719	0.1	CHP	2	716.156	-32.13	-13	Pass

5.2.2 B12_3MHz



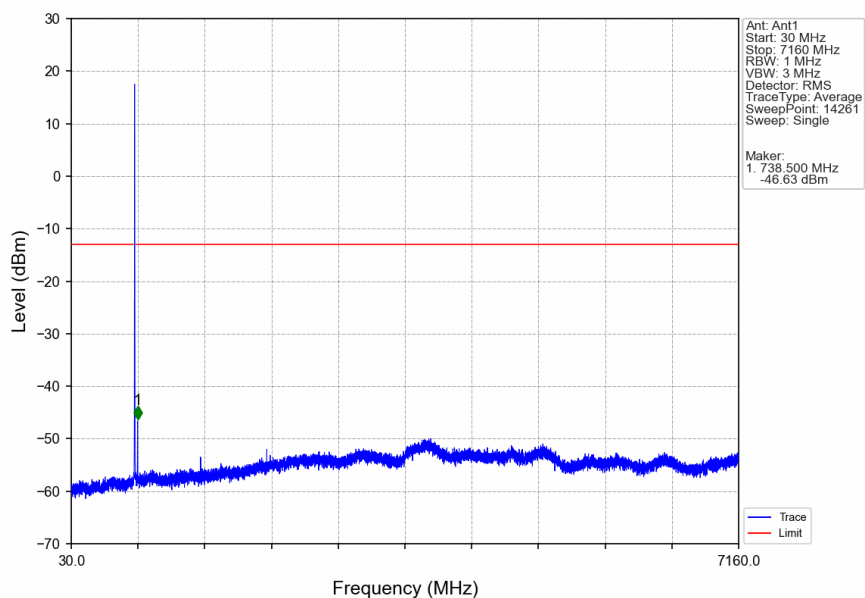


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

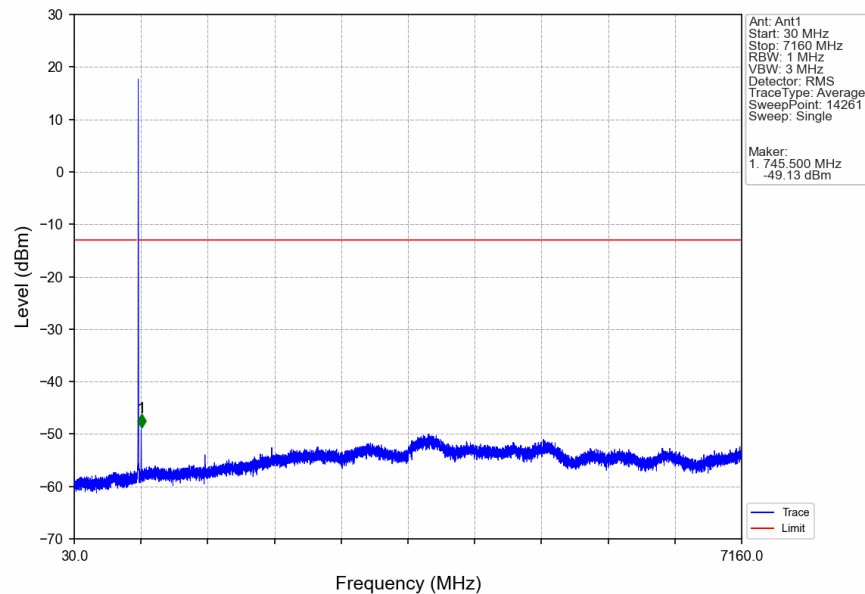


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-36.21	-13	Pass
698.9	699	0.03	/	2	698.994	-31.78	-13	Pass
699	702	0.03	/	/	/	/	/	/

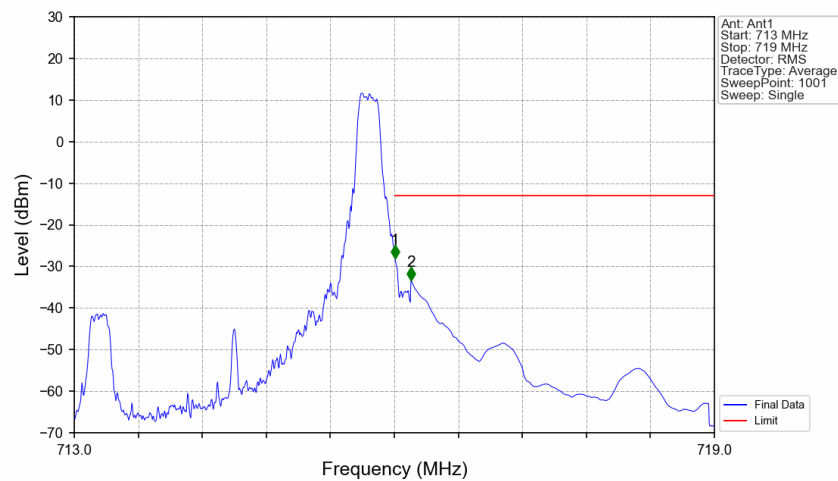
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

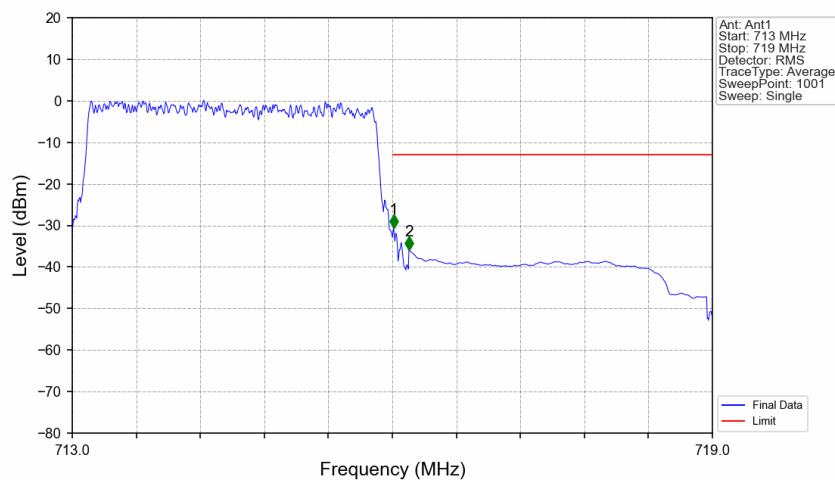


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



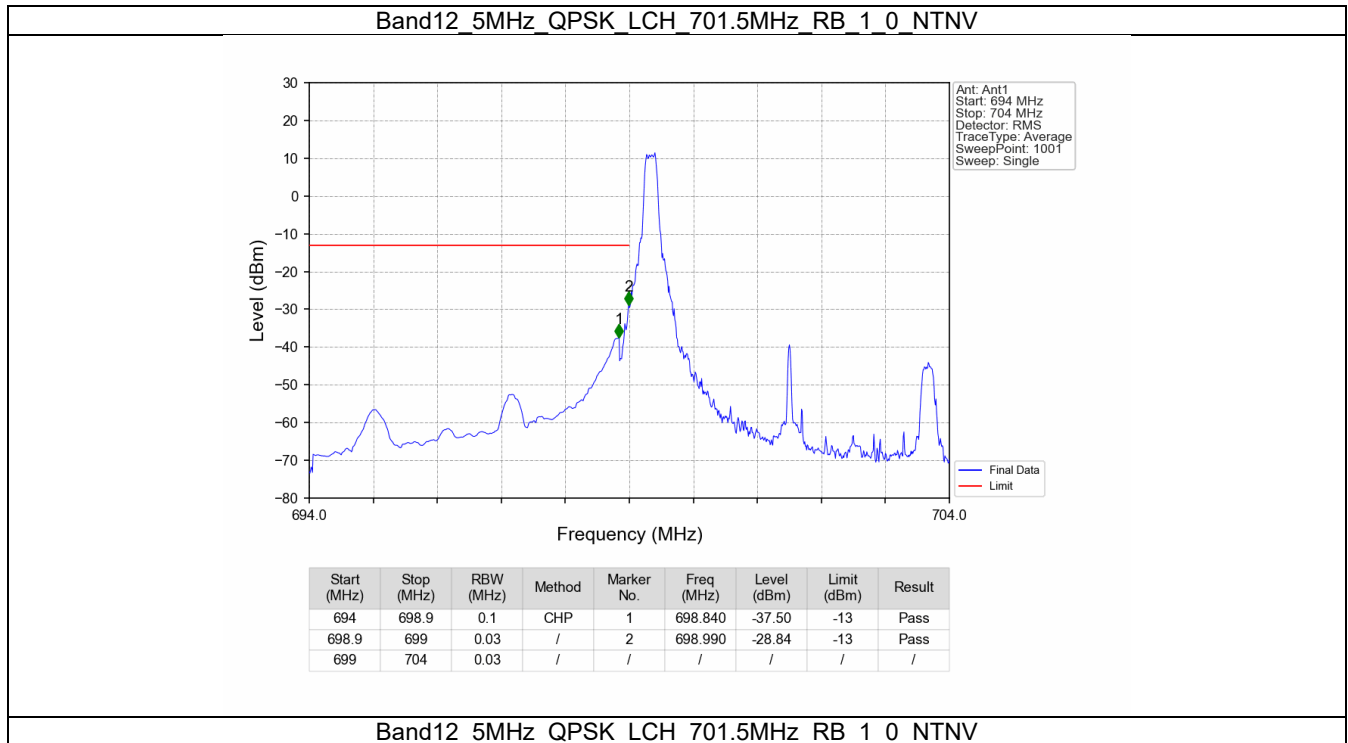
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-28.14	-13	Pass
716.1	719	0.1	CHP	2	716.156	-33.31	-13	Pass

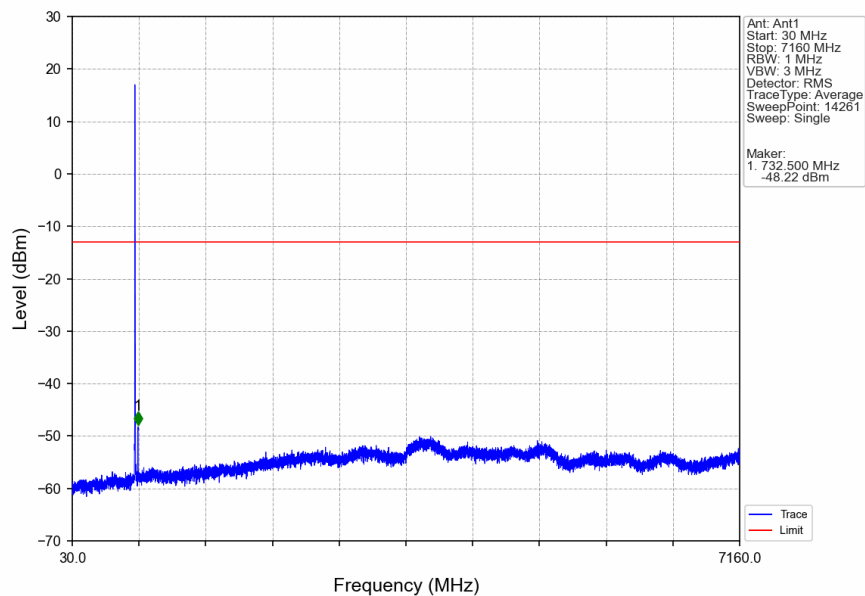
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



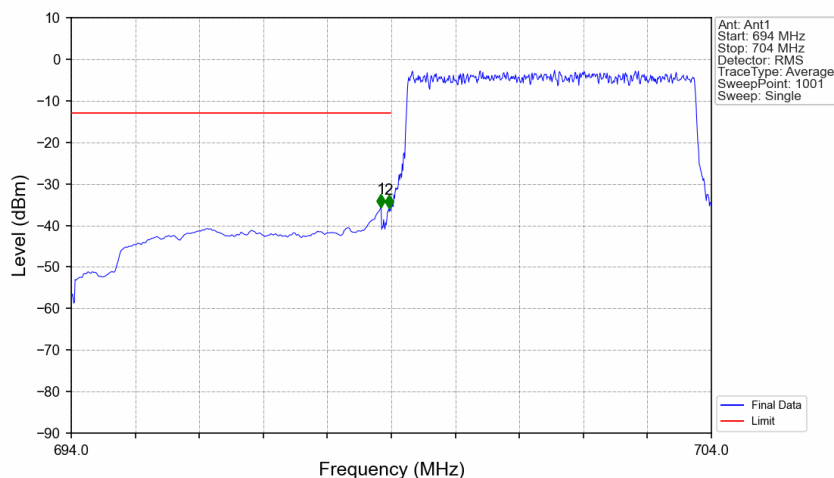
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-30.53	-13	Pass
716.1	719	0.1	CHP	2	716.156	-35.94	-13	Pass

5.2.3 B12_5MHz



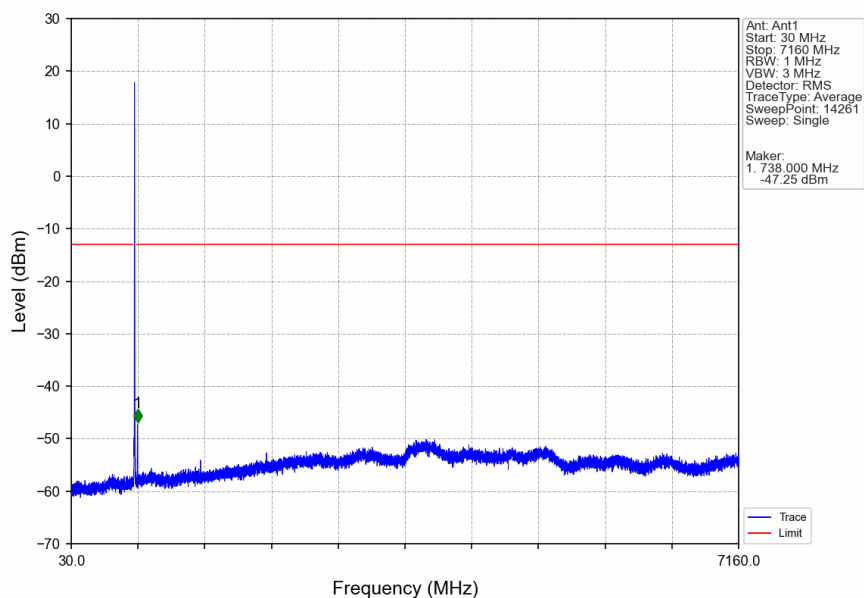


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

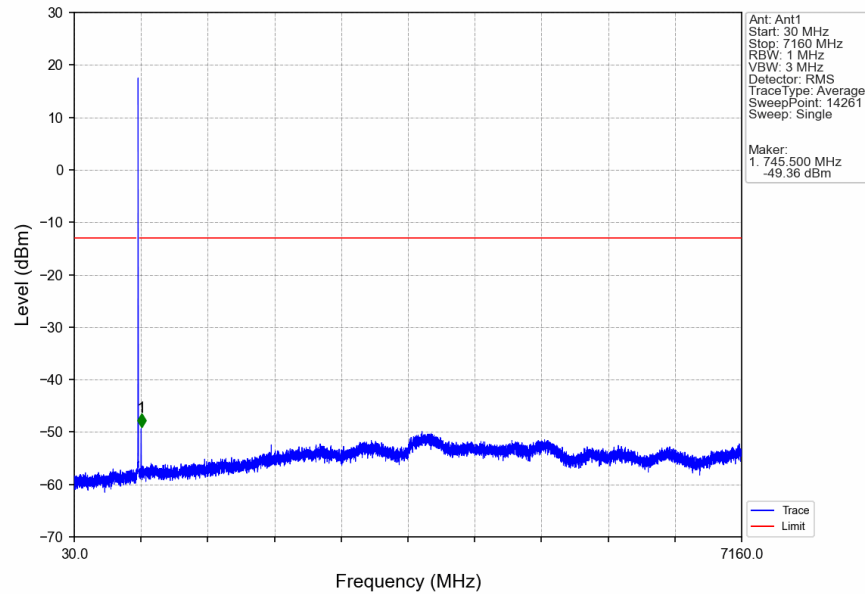


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-35.65	-13	Pass
698.9	699	0.03	/	2	698.960	-35.88	-13	Pass
699	704	0.03	/	/	/	/	/	/

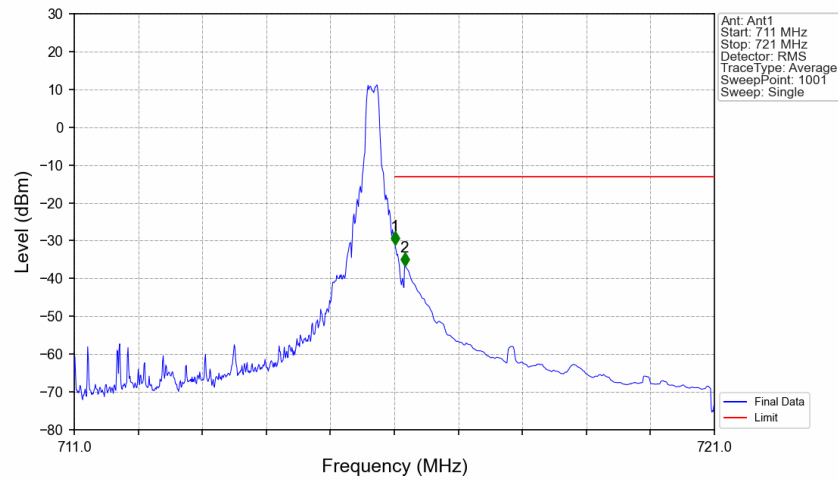
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

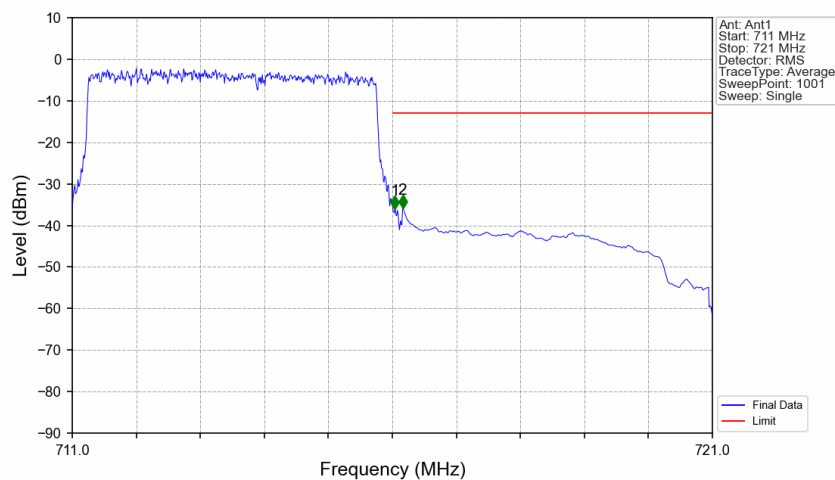


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



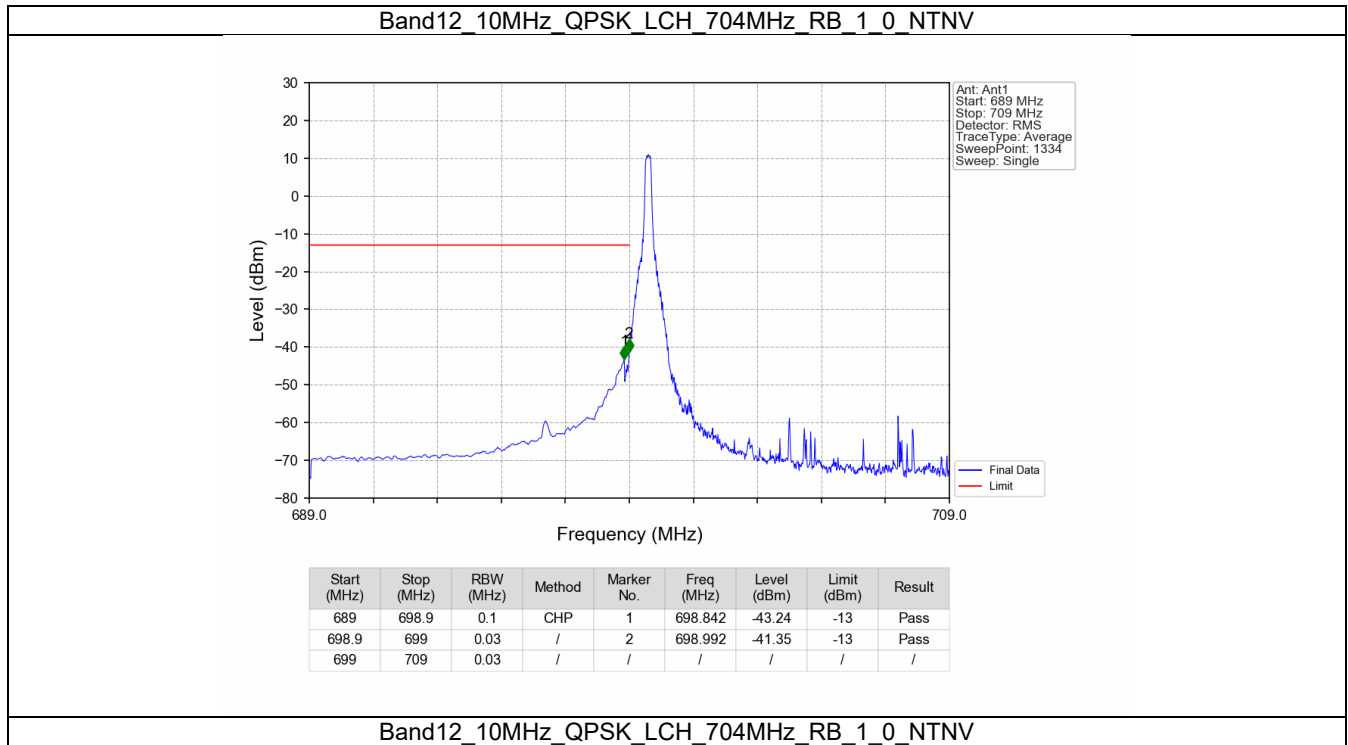
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-31.01	-13	Pass
716.1	721	0.1	CHP	2	716.160	-36.58	-13	Pass

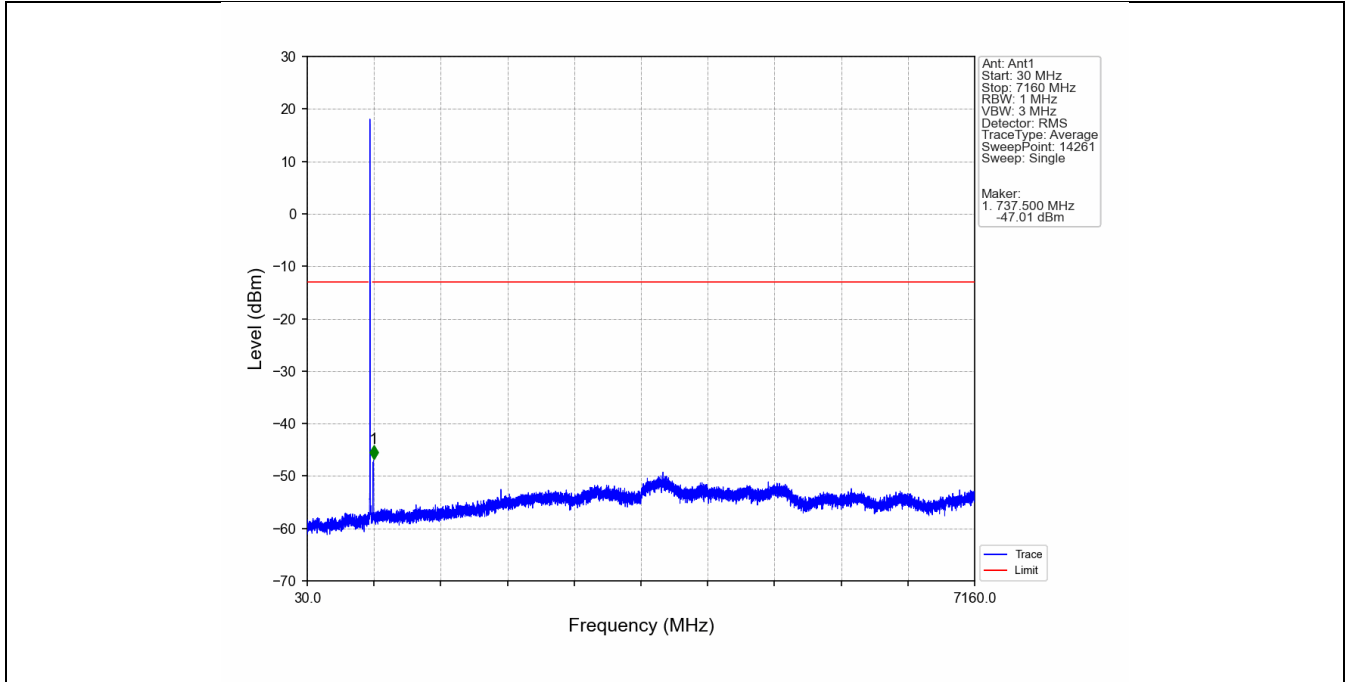
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



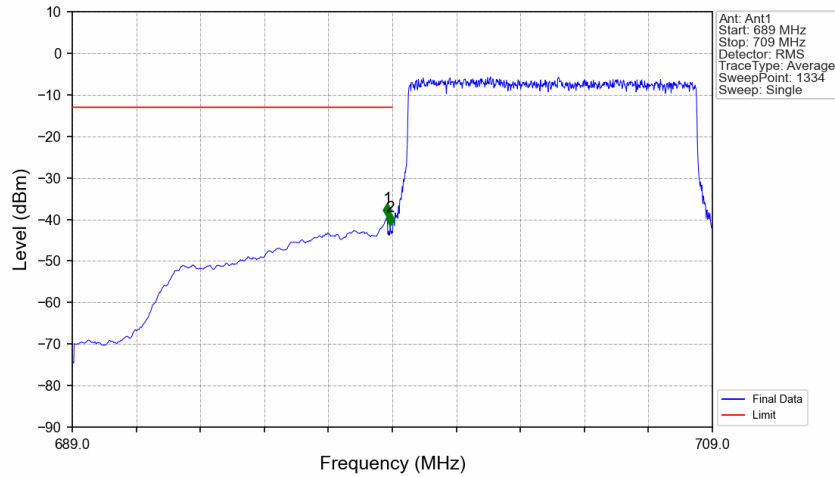
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-36.03	-13	Pass
716.1	721	0.1	CHP	2	716.160	-35.89	-13	Pass

5.2.4 B12_10MHz



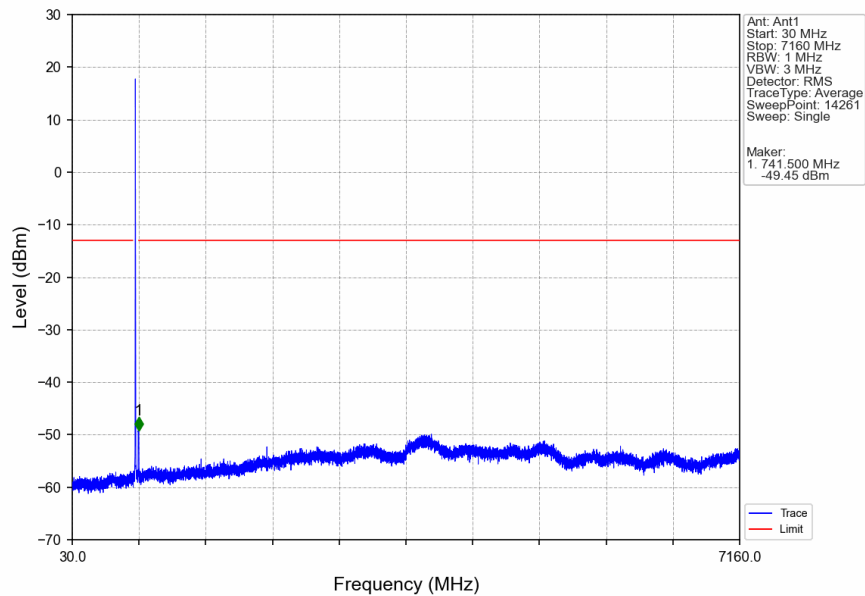


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

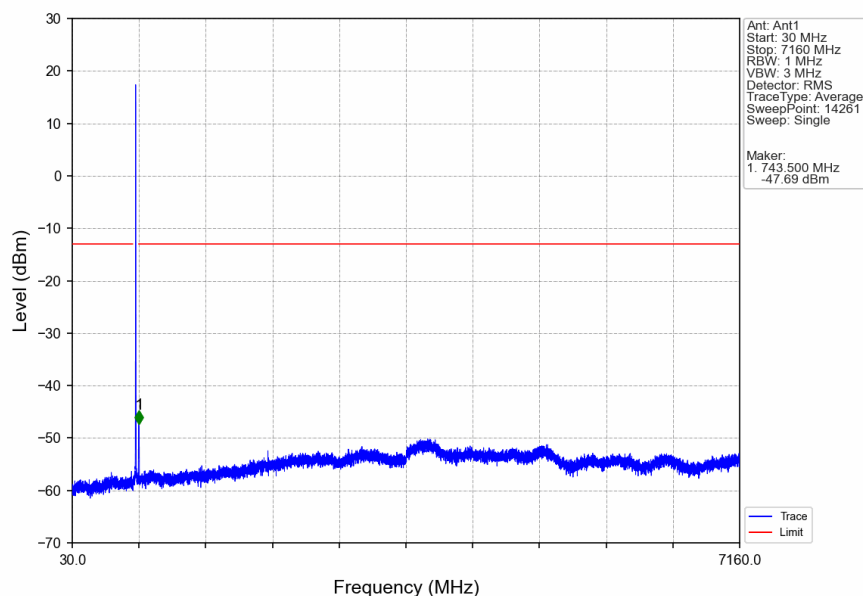


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-39.25	-13	Pass
698.9	699	0.03	/	2	698.932	-41.51	-13	Pass
699	709	0.03	/	/	/	/	/	/

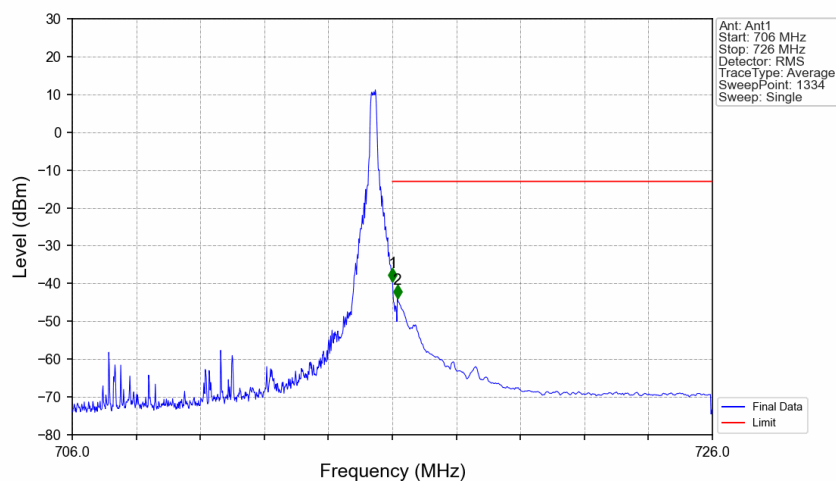
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

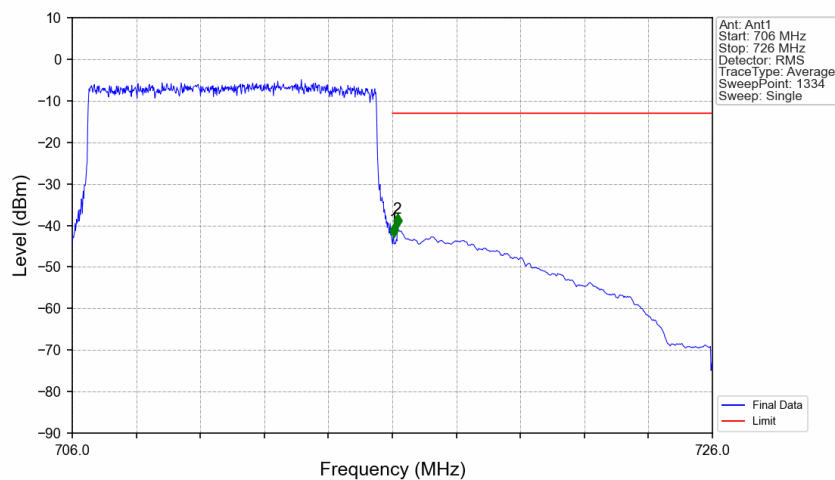


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-39.52	-13	Pass
716.1	726	0.1	CHP	2	716.158	-43.95	-13	Pass

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-42.70	-13	Pass
716.1	726	0.1	CHP	2	716.158	-40.39	-13	Pass

---End of Attachment---