

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	24.20	1.61	23.66	<=34.77	Pass
			2	24.19	1.61	23.65	<=34.77	Pass
			5	24.16	1.61	23.62	<=34.77	Pass
		3	0	24.19	1.61	23.65	<=34.77	Pass
			2	24.18	1.61	23.64	<=34.77	Pass
			3	24.11	1.61	23.57	<=34.77	Pass
		6	0	23.19	1.61	22.65	<=34.77	Pass
	707.5	1	0	24.19	1.61	23.65	<=34.77	Pass
			2	24.21	1.61	23.67	<=34.77	Pass
			5	24.15	1.61	23.61	<=34.77	Pass
		3	0	24.20	1.61	23.66	<=34.77	Pass
			2	24.22	1.61	23.68	<=34.77	Pass
			3	24.19	1.61	23.65	<=34.77	Pass
		6	0	23.13	1.61	22.59	<=34.77	Pass
	715.3	1	0	24.19	1.61	23.65	<=34.77	Pass
			2	24.16	1.61	23.62	<=34.77	Pass
			5	24.10	1.61	23.56	<=34.77	Pass
		3	0	24.20	1.61	23.66	<=34.77	Pass
			2	24.15	1.61	23.61	<=34.77	Pass
			3	24.17	1.61	23.63	<=34.77	Pass
		6	0	23.21	1.61	22.67	<=34.77	Pass
16QAM	699.7	1	0	23.39	1.61	22.85	<=34.77	Pass
			2	23.41	1.61	22.87	<=34.77	Pass
			5	23.30	1.61	22.76	<=34.77	Pass
		3	0	23.26	1.61	22.72	<=34.77	Pass
			2	23.30	1.61	22.76	<=34.77	Pass
			3	23.27	1.61	22.73	<=34.77	Pass
		6	0	22.22	1.61	21.68	<=34.77	Pass
	707.5	1	0	23.30	1.61	22.76	<=34.77	Pass
			2	23.40	1.61	22.86	<=34.77	Pass
			5	23.33	1.61	22.79	<=34.77	Pass
		3	0	23.33	1.61	22.79	<=34.77	Pass
			2	23.39	1.61	22.85	<=34.77	Pass
			3	23.29	1.61	22.75	<=34.77	Pass
		6	0	22.19	1.61	21.65	<=34.77	Pass
	715.3	1	0	23.34	1.61	22.80	<=34.77	Pass
			2	23.33	1.61	22.79	<=34.77	Pass
			5	23.38	1.61	22.84	<=34.77	Pass
		3	0	23.29	1.61	22.75	<=34.77	Pass
			2	23.27	1.61	22.73	<=34.77	Pass
			3	23.34	1.61	22.80	<=34.77	Pass
		6	0	22.29	1.61	21.75	<=34.77	Pass
64QAM	699.7	1	0	22.44	1.61	21.90	<=34.77	Pass
			2	22.46	1.61	21.92	<=34.77	Pass
			5	22.37	1.61	21.83	<=34.77	Pass
		3	0	22.29	1.61	21.75	<=34.77	Pass
			2	22.23	1.61	21.69	<=34.77	Pass
			3	22.19	1.61	21.65	<=34.77	Pass
		6	0	21.15	1.61	20.61	<=34.77	Pass
	707.5	1	0	22.32	1.61	21.78	<=34.77	Pass

			2	22.46	1.61	21.92	<=34.77	Pass
			5	22.35	1.61	21.81	<=34.77	Pass
		3	0	22.28	1.61	21.74	<=34.77	Pass
			2	22.27	1.61	21.73	<=34.77	Pass
			3	22.23	1.61	21.69	<=34.77	Pass
		6	0	21.16	1.61	20.62	<=34.77	Pass
	715.3	1	0	22.34	1.61	21.80	<=34.77	Pass
			2	22.47	1.61	21.93	<=34.77	Pass
			5	22.28	1.61	21.74	<=34.77	Pass
		3	0	22.24	1.61	21.70	<=34.77	Pass
			2	22.16	1.61	21.62	<=34.77	Pass
			3	22.14	1.61	21.60	<=34.77	Pass
		6	0	21.18	1.61	20.64	<=34.77	Pass
	Note1: ERP=Conducted Power+Antenna Gain-2.15							

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	24.08	1.61	23.54	<=34.77	Pass
			7	24.18	1.61	23.64	<=34.77	Pass
			14	24.12	1.61	23.58	<=34.77	Pass
		8	0	23.21	1.61	22.67	<=34.77	Pass
			4	23.25	1.61	22.71	<=34.77	Pass
			7	23.18	1.61	22.64	<=34.77	Pass
		15	0	23.18	1.61	22.64	<=34.77	Pass
	707.5	1	0	24.11	1.61	23.57	<=34.77	Pass
			7	24.23	1.61	23.69	<=34.77	Pass
			14	24.13	1.61	23.59	<=34.77	Pass
		8	0	23.17	1.61	22.63	<=34.77	Pass
			4	23.19	1.61	22.65	<=34.77	Pass
			7	23.19	1.61	22.65	<=34.77	Pass
		15	0	23.16	1.61	22.62	<=34.77	Pass
	714.5	1	0	24.14	1.61	23.60	<=34.77	Pass
			7	24.16	1.61	23.62	<=34.77	Pass
			14	24.09	1.61	23.55	<=34.77	Pass
		8	0	23.10	1.61	22.56	<=34.77	Pass
			4	23.22	1.61	22.68	<=34.77	Pass
			7	23.16	1.61	22.62	<=34.77	Pass
		15	0	23.11	1.61	22.57	<=34.77	Pass
16QAM	700.5	1	0	23.31	1.61	22.77	<=34.77	Pass
			7	23.40	1.61	22.86	<=34.77	Pass
			14	23.30	1.61	22.76	<=34.77	Pass
		8	0	22.28	1.61	21.74	<=34.77	Pass
			4	22.32	1.61	21.78	<=34.77	Pass
			7	22.25	1.61	21.71	<=34.77	Pass
		15	0	22.30	1.61	21.76	<=34.77	Pass
	707.5	1	0	23.35	1.61	22.81	<=34.77	Pass
			7	23.45	1.61	22.91	<=34.77	Pass
			14	23.38	1.61	22.84	<=34.77	Pass
		8	0	22.26	1.61	21.72	<=34.77	Pass
			4	22.26	1.61	21.72	<=34.77	Pass
			7	22.26	1.61	21.72	<=34.77	Pass
		15	0	22.22	1.61	21.68	<=34.77	Pass
	714.5	1	0	23.35	1.61	22.81	<=34.77	Pass
			7	23.41	1.61	22.87	<=34.77	Pass
			14	23.38	1.61	22.84	<=34.77	Pass
		8	0	22.23	1.61	21.69	<=34.77	Pass

		15	4	22.31	1.61	21.77	<=34.77	Pass		
			7	22.24	1.61	21.70	<=34.77	Pass		
			0	22.17	1.61	21.63	<=34.77	Pass		
64QAM	700.5	1	0	22.36	1.61	21.82	<=34.77	Pass		
			7	22.45	1.61	21.91	<=34.77	Pass		
			14	22.24	1.61	21.70	<=34.77	Pass		
		8	0	21.28	1.61	20.74	<=34.77	Pass		
			4	21.18	1.61	20.64	<=34.77	Pass		
			7	21.15	1.61	20.61	<=34.77	Pass		
		15	0	21.14	1.61	20.60	<=34.77	Pass		
		707.5	1	0	22.42	1.61	21.88	<=34.77	Pass	
				7	22.47	1.61	21.93	<=34.77	Pass	
	14			22.35	1.61	21.81	<=34.77	Pass		
	8		0	21.21	1.61	20.67	<=34.77	Pass		
			4	21.22	1.61	20.68	<=34.77	Pass		
			7	21.21	1.61	20.67	<=34.77	Pass		
	15		0	21.18	1.61	20.64	<=34.77	Pass		
	714.5		1	0	22.44	1.61	21.90	<=34.77	Pass	
				7	22.47	1.61	21.93	<=34.77	Pass	
		14		22.34	1.61	21.80	<=34.77	Pass		
		8	0	21.13	1.61	20.59	<=34.77	Pass		
			4	21.21	1.61	20.67	<=34.77	Pass		
			7	21.18	1.61	20.64	<=34.77	Pass		
		15	0	21.12	1.61	20.58	<=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	24.22	1.61	23.68	<=34.77	Pass
			13	24.26	1.61	23.72	<=34.77	Pass
			24	24.21	1.61	23.67	<=34.77	Pass
		12	0	23.13	1.61	22.59	<=34.77	Pass
			6	23.27	1.61	22.73	<=34.77	Pass
			13	23.17	1.61	22.63	<=34.77	Pass
		25	0	23.24	1.61	22.70	<=34.77	Pass
	707.5	1	0	24.20	1.61	23.66	<=34.77	Pass
			13	24.31	1.61	23.77	<=34.77	Pass
			24	24.20	1.61	23.66	<=34.77	Pass
		12	0	23.16	1.61	22.62	<=34.77	Pass
			6	23.18	1.61	22.64	<=34.77	Pass
			13	23.19	1.61	22.65	<=34.77	Pass
		25	0	23.17	1.61	22.63	<=34.77	Pass
	713.5	1	0	24.19	1.61	23.65	<=34.77	Pass
			13	24.23	1.61	23.69	<=34.77	Pass
			24	24.19	1.61	23.65	<=34.77	Pass
		12	0	23.20	1.61	22.66	<=34.77	Pass
			6	23.24	1.61	22.70	<=34.77	Pass
			13	23.13	1.61	22.59	<=34.77	Pass
		25	0	23.19	1.61	22.65	<=34.77	Pass
16QAM	701.5	1	0	23.26	1.61	22.72	<=34.77	Pass
			13	23.40	1.61	22.86	<=34.77	Pass
			24	23.33	1.61	22.79	<=34.77	Pass
		12	0	22.18	1.61	21.64	<=34.77	Pass
			6	22.29	1.61	21.75	<=34.77	Pass
			13	22.21	1.61	21.67	<=34.77	Pass
		25	0	22.28	1.61	21.74	<=34.77	Pass

	707.5	1	0	23.46	1.61	22.92	<=34.77	Pass
			13	23.48	1.61	22.94	<=34.77	Pass
			24	23.38	1.61	22.84	<=34.77	Pass
		12	0	22.25	1.61	21.71	<=34.77	Pass
			6	22.26	1.61	21.72	<=34.77	Pass
			13	22.26	1.61	21.72	<=34.77	Pass
		25	0	22.19	1.61	21.65	<=34.77	Pass
	713.5	1	0	23.43	1.61	22.89	<=34.77	Pass
			13	23.32	1.61	22.78	<=34.77	Pass
			24	23.25	1.61	22.71	<=34.77	Pass
		12	0	22.27	1.61	21.73	<=34.77	Pass
			6	22.28	1.61	21.74	<=34.77	Pass
			13	22.23	1.61	21.69	<=34.77	Pass
		25	0	22.27	1.61	21.73	<=34.77	Pass
64QAM	701.5	1	0	22.51	1.61	21.97	<=34.77	Pass
			13	22.56	1.61	22.02	<=34.77	Pass
			24	22.29	1.61	21.75	<=34.77	Pass
		12	0	21.16	1.61	20.62	<=34.77	Pass
			6	21.28	1.61	20.74	<=34.77	Pass
			13	21.17	1.61	20.63	<=34.77	Pass
		25	0	21.15	1.61	20.61	<=34.77	Pass
	707.5	1	0	22.33	1.61	21.79	<=34.77	Pass
			13	22.43	1.61	21.89	<=34.77	Pass
			24	22.45	1.61	21.91	<=34.77	Pass
		12	0	21.23	1.61	20.69	<=34.77	Pass
			6	21.22	1.61	20.68	<=34.77	Pass
			13	21.24	1.61	20.70	<=34.77	Pass
		25	0	21.10	1.61	20.56	<=34.77	Pass
	713.5	1	0	22.48	1.61	21.94	<=34.77	Pass
			13	22.44	1.61	21.90	<=34.77	Pass
			24	22.34	1.61	21.80	<=34.77	Pass
		12	0	21.25	1.61	20.71	<=34.77	Pass
			6	21.25	1.61	20.71	<=34.77	Pass
			13	21.13	1.61	20.59	<=34.77	Pass
		25	0	21.14	1.61	20.60	<=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	24.21	1.61	23.67	<=34.77	Pass
			25	24.20	1.61	23.66	<=34.77	Pass
			49	24.20	1.61	23.66	<=34.77	Pass
		25	0	23.21	1.61	22.67	<=34.77	Pass
			13	23.25	1.61	22.71	<=34.77	Pass
			25	23.25	1.61	22.71	<=34.77	Pass
		50	0	23.26	1.61	22.72	<=34.77	Pass
	707.5	1	0	24.15	1.61	23.61	<=34.77	Pass
			25	24.20	1.61	23.66	<=34.77	Pass
			49	24.09	1.61	23.55	<=34.77	Pass
		25	0	23.17	1.61	22.63	<=34.77	Pass
			13	23.19	1.61	22.65	<=34.77	Pass
			25	23.24	1.61	22.70	<=34.77	Pass
		50	0	23.16	1.61	22.62	<=34.77	Pass
	711	1	0	24.17	1.61	23.63	<=34.77	Pass
			25	24.16	1.61	23.62	<=34.77	Pass
			49	24.09	1.61	23.55	<=34.77	Pass

		25	0	23.17	1.61	22.63	<=34.77	Pass	
			13	23.26	1.61	22.72	<=34.77	Pass	
			25	23.22	1.61	22.68	<=34.77	Pass	
		50	0	23.23	1.61	22.69	<=34.77	Pass	
16QAM	704	1	0	23.50	1.61	22.96	<=34.77	Pass	
			25	23.44	1.61	22.90	<=34.77	Pass	
			49	23.39	1.61	22.85	<=34.77	Pass	
		25	0	22.24	1.61	21.70	<=34.77	Pass	
			13	22.33	1.61	21.79	<=34.77	Pass	
			25	22.29	1.61	21.75	<=34.77	Pass	
		50	0	22.30	1.61	21.76	<=34.77	Pass	
		707.5	1	0	23.49	1.61	22.95	<=34.77	Pass
				25	23.41	1.61	22.87	<=34.77	Pass
	49			23.27	1.61	22.73	<=34.77	Pass	
	25		0	22.21	1.61	21.67	<=34.77	Pass	
			13	22.23	1.61	21.69	<=34.77	Pass	
			25	22.25	1.61	21.71	<=34.77	Pass	
	50		0	22.19	1.61	21.65	<=34.77	Pass	
	711		1	0	23.41	1.61	22.87	<=34.77	Pass
				25	23.39	1.61	22.85	<=34.77	Pass
		49		23.41	1.61	22.87	<=34.77	Pass	
		25	0	22.24	1.61	21.70	<=34.77	Pass	
			13	22.28	1.61	21.74	<=34.77	Pass	
			25	22.24	1.61	21.70	<=34.77	Pass	
		50	0	22.25	1.61	21.71	<=34.77	Pass	
		64QAM	704	1	0	22.45	1.61	21.91	<=34.77
25					22.33	1.61	21.79	<=34.77	Pass
49	22.30				1.61	21.76	<=34.77	Pass	
25	0			21.20	1.61	20.66	<=34.77	Pass	
	13			21.29	1.61	20.75	<=34.77	Pass	
	25			21.18	1.61	20.64	<=34.77	Pass	
50	0			21.23	1.61	20.69	<=34.77	Pass	
707.5	1		0	22.40	1.61	21.86	<=34.77	Pass	
			25	22.39	1.61	21.85	<=34.77	Pass	
			49	22.27	1.61	21.73	<=34.77	Pass	
	25		0	21.11	1.61	20.57	<=34.77	Pass	
			13	21.15	1.61	20.61	<=34.77	Pass	
			25	21.16	1.61	20.62	<=34.77	Pass	
	50		0	21.10	1.61	20.56	<=34.77	Pass	
711	1		0	22.33	1.61	21.79	<=34.77	Pass	
			25	22.37	1.61	21.83	<=34.77	Pass	
			49	22.28	1.61	21.74	<=34.77	Pass	
	25		0	21.15	1.61	20.61	<=34.77	Pass	
			13	21.23	1.61	20.69	<=34.77	Pass	
			25	21.14	1.61	20.60	<=34.77	Pass	
	50		0	21.23	1.61	20.69	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.3	1.700	0.0024	-2.5 to 2.5	Pass
					3.8	2.200	0.0031	-2.5 to 2.5	Pass
					4.4	0.600	0.0009	-2.5 to 2.5	Pass
				-30	3.8	0.500	0.0007	-2.5 to 2.5	Pass
				-20	3.8	-0.800	-0.0011	-2.5 to 2.5	Pass
				-10	3.8	1.000	0.0014	-2.5 to 2.5	Pass
				0	3.8	2.800	0.0040	-2.5 to 2.5	Pass
				10	3.8	-0.400	-0.0006	-2.5 to 2.5	Pass
				30	3.8	3.200	0.0045	-2.5 to 2.5	Pass
				40	3.8	1.600	0.0023	-2.5 to 2.5	Pass
				50	3.8	2.400	0.0034	-2.5 to 2.5	Pass
	707.5	50	0	20	3.3	-2.000	-0.0028	-2.5 to 2.5	Pass
					3.8	-2.600	-0.0037	-2.5 to 2.5	Pass
					4.4	-2.100	-0.0030	-2.5 to 2.5	Pass
				-30	3.8	-2.700	-0.0038	-2.5 to 2.5	Pass
				-20	3.8	-1.600	-0.0023	-2.5 to 2.5	Pass
				-10	3.8	-1.800	-0.0025	-2.5 to 2.5	Pass
				0	3.8	-0.500	-0.0007	-2.5 to 2.5	Pass
				10	3.8	-1.000	-0.0014	-2.5 to 2.5	Pass
				30	3.8	-1.500	-0.0021	-2.5 to 2.5	Pass
				40	3.8	-2.000	-0.0028	-2.5 to 2.5	Pass
				50	3.8	-2.700	-0.0038	-2.5 to 2.5	Pass
	711	50	0	20	3.3	-0.100	-0.0001	-2.5 to 2.5	Pass
					3.8	-2.700	-0.0038	-2.5 to 2.5	Pass
					4.4	-0.600	-0.0008	-2.5 to 2.5	Pass
				-30	3.8	-0.500	-0.0007	-2.5 to 2.5	Pass
				-20	3.8	1.400	0.0020	-2.5 to 2.5	Pass
				-10	3.8	-0.100	-0.0001	-2.5 to 2.5	Pass
				0	3.8	-0.700	-0.0010	-2.5 to 2.5	Pass
				10	3.8	-0.700	-0.0010	-2.5 to 2.5	Pass
				30	3.8	-1.200	-0.0017	-2.5 to 2.5	Pass
				40	3.8	1.200	0.0017	-2.5 to 2.5	Pass
				50	3.8	0.500	0.0007	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.3	2.300	0.0033	-2.5 to 2.5	Pass
					3.8	2.900	0.0041	-2.5 to 2.5	Pass
					4.4	1.900	0.0027	-2.5 to 2.5	Pass
				-30	3.8	1.800	0.0026	-2.5 to 2.5	Pass
				-20	3.8	1.600	0.0023	-2.5 to 2.5	Pass
				-10	3.8	0.500	0.0007	-2.5 to 2.5	Pass
				0	3.8	1.500	0.0021	-2.5 to 2.5	Pass
				10	3.8	2.200	0.0031	-2.5 to 2.5	Pass
				30	3.8	1.100	0.0016	-2.5 to 2.5	Pass
				40	3.8	3.100	0.0044	-2.5 to 2.5	Pass
				50	3.8	1.900	0.0027	-2.5 to 2.5	Pass
	707.5	50	0	20	3.3	-3.000	-0.0042	-2.5 to 2.5	Pass
					3.8	-0.700	-0.0010	-2.5 to 2.5	Pass
					4.4	-2.300	-0.0033	-2.5 to 2.5	Pass
				-30	3.8	-0.200	-0.0003	-2.5 to 2.5	Pass

				-20	3.8	-0.500	-0.0007	-2.5 to 2.5	Pass
				-10	3.8	-0.800	-0.0011	-2.5 to 2.5	Pass
				0	3.8	-1.000	-0.0014	-2.5 to 2.5	Pass
				10	3.8	-1.300	-0.0018	-2.5 to 2.5	Pass
				30	3.8	-1.600	-0.0023	-2.5 to 2.5	Pass
				40	3.8	-1.000	-0.0014	-2.5 to 2.5	Pass
				50	3.8	-1.100	-0.0016	-2.5 to 2.5	Pass
	711	50	0	20	3.3	-0.300	-0.0004	-2.5 to 2.5	Pass
					3.8	1.500	0.0021	-2.5 to 2.5	Pass
					4.4	-0.900	-0.0013	-2.5 to 2.5	Pass
				-30	3.8	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.8	-0.800	-0.0011	-2.5 to 2.5	Pass
				-10	3.8	-1.400	-0.0020	-2.5 to 2.5	Pass
				0	3.8	-1.200	-0.0017	-2.5 to 2.5	Pass
				10	3.8	0.200	0.0003	-2.5 to 2.5	Pass
				30	3.8	-0.200	-0.0003	-2.5 to 2.5	Pass
				40	3.8	-1.400	-0.0020	-2.5 to 2.5	Pass
				50	3.8	-1.600	-0.0023	-2.5 to 2.5	Pass
64QAM	704	50	0	20	3.3	-10.400	-0.0148	-2.5 to 2.5	Pass
					3.8	-3.100	-0.0044	-2.5 to 2.5	Pass
					4.4	7.800	0.0111	-2.5 to 2.5	Pass
				-30	3.8	-10.100	-0.0143	-2.5 to 2.5	Pass
				-20	3.8	0.900	0.0013	-2.5 to 2.5	Pass
				-10	3.8	-4.300	-0.0061	-2.5 to 2.5	Pass
				0	3.8	-9.800	-0.0139	-2.5 to 2.5	Pass
				10	3.8	-11.000	-0.0156	-2.5 to 2.5	Pass
				30	3.8	-7.700	-0.0109	-2.5 to 2.5	Pass
				40	3.8	7.400	0.0105	-2.5 to 2.5	Pass
				50	3.8	-6.200	-0.0088	-2.5 to 2.5	Pass
	707.5	50	0	20	3.3	2.300	0.0033	-2.5 to 2.5	Pass
					3.8	-6.700	-0.0095	-2.5 to 2.5	Pass
					4.4	0.600	0.0008	-2.5 to 2.5	Pass
				-30	3.8	16.400	0.0232	-2.5 to 2.5	Pass
				-20	3.8	7.800	0.0110	-2.5 to 2.5	Pass
				-10	3.8	7.800	0.0110	-2.5 to 2.5	Pass
				0	3.8	-11.200	-0.0158	-2.5 to 2.5	Pass
				10	3.8	-18.700	-0.0264	-2.5 to 2.5	Pass
				30	3.8	10.200	0.0144	-2.5 to 2.5	Pass
				40	3.8	14.700	0.0208	-2.5 to 2.5	Pass
				50	3.8	17.900	0.0253	-2.5 to 2.5	Pass
	711	50	0	20	3.3	17.100	0.0241	-2.5 to 2.5	Pass
					3.8	12.200	0.0172	-2.5 to 2.5	Pass
					4.4	0.800	0.0011	-2.5 to 2.5	Pass
				-30	3.8	-8.600	-0.0121	-2.5 to 2.5	Pass
				-20	3.8	15.200	0.0214	-2.5 to 2.5	Pass
				-10	3.8	-0.100	-0.0001	-2.5 to 2.5	Pass
				0	3.8	10.500	0.0148	-2.5 to 2.5	Pass
				10	3.8	11.400	0.0160	-2.5 to 2.5	Pass
				30	3.8	-2.700	-0.0038	-2.5 to 2.5	Pass
				40	3.8	9.800	0.0138	-2.5 to 2.5	Pass
				50	3.8	6.800	0.0096	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

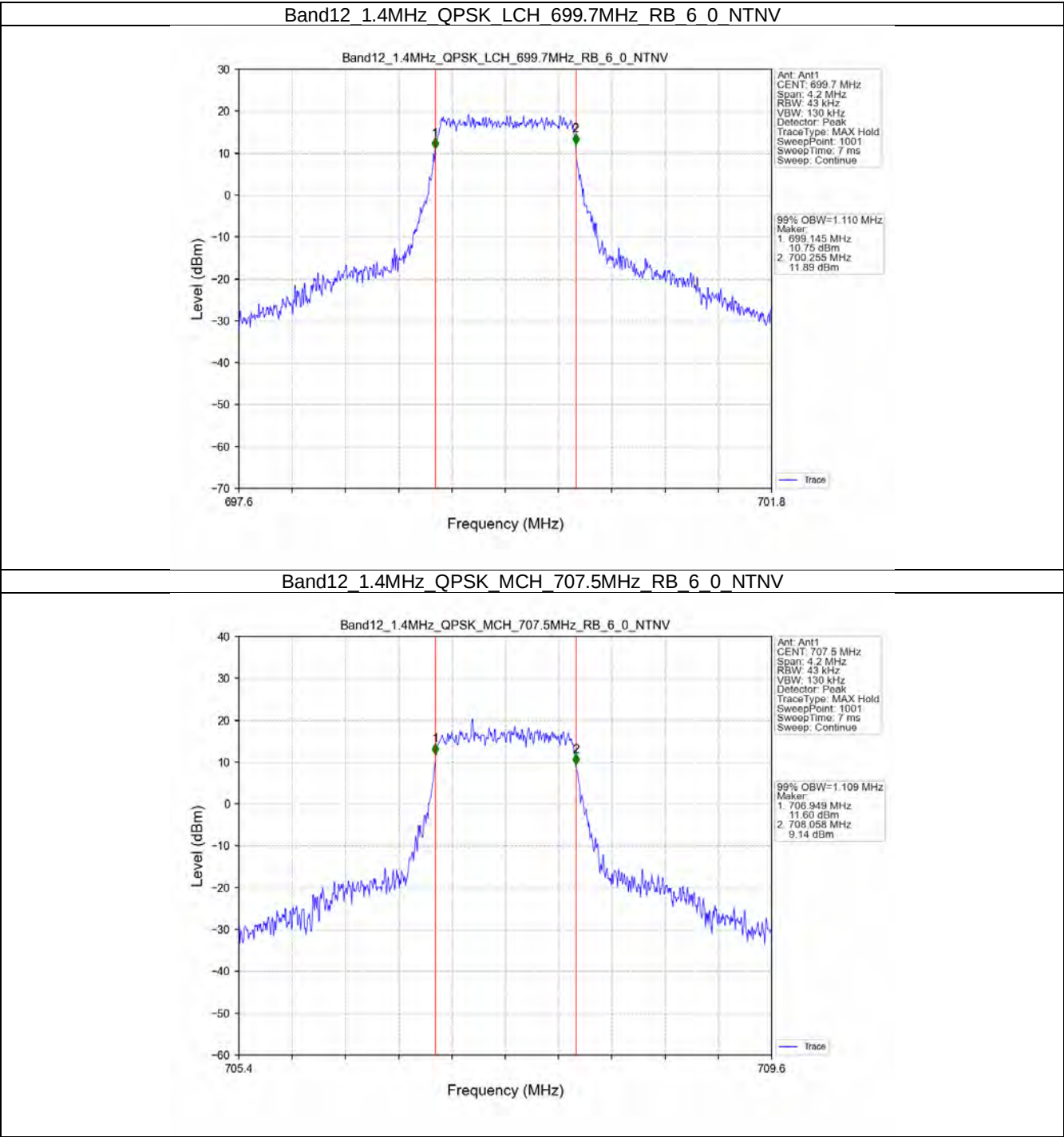
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.110	/	Pass
		707.5	6	0	1.109	/	Pass
		715.3	6	0	1.121	/	Pass
	16QAM	699.7	6	0	1.126	/	Pass
		707.5	6	0	1.125	/	Pass
		715.3	6	0	1.125	/	Pass
	64QAM	699.7	6	0	1.118	/	Pass
		707.5	6	0	1.115	/	Pass
		715.3	6	0	1.115	/	Pass
3	QPSK	700.5	15	0	2.735	/	Pass
		707.5	15	0	2.726	/	Pass
		714.5	15	0	2.727	/	Pass
	16QAM	700.5	15	0	2.723	/	Pass
		707.5	15	0	2.712	/	Pass
		714.5	15	0	2.722	/	Pass
	64QAM	700.5	15	0	2.712	/	Pass
		707.5	15	0	2.734	/	Pass
		714.5	15	0	2.717	/	Pass
5	QPSK	701.5	25	0	4.556	/	Pass
		707.5	25	0	4.550	/	Pass
		713.5	25	0	4.558	/	Pass
	16QAM	701.5	25	0	4.555	/	Pass
		707.5	25	0	4.549	/	Pass
		713.5	25	0	4.556	/	Pass
	64QAM	701.5	25	0	4.544	/	Pass
		707.5	25	0	4.564	/	Pass
		713.5	25	0	4.554	/	Pass
10	QPSK	704	50	0	9.080	/	Pass
		707.5	50	0	9.083	/	Pass
		711	50	0	9.047	/	Pass
	16QAM	704	50	0	9.080	/	Pass
		707.5	50	0	9.075	/	Pass
		711	50	0	9.070	/	Pass
	64QAM	704	50	0	9.083	/	Pass
		707.5	50	0	9.043	/	Pass
		711	50	0	9.081	/	Pass

3.1.2 Band12_XDB

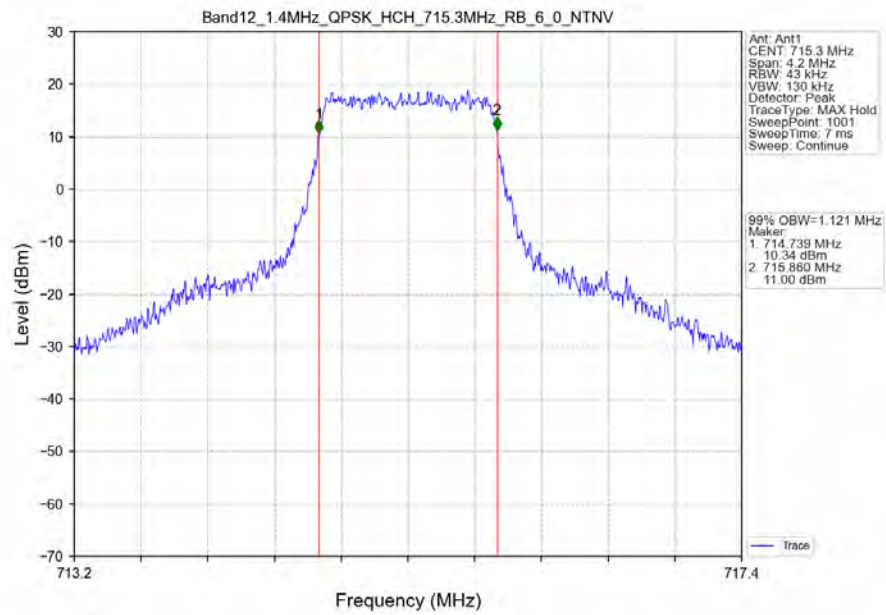
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.391	/	Pass
		707.5	6	0	1.350	/	Pass
		715.3	6	0	1.399	/	Pass
	16QAM	699.7	6	0	1.438	/	Pass
		707.5	6	0	1.358	/	Pass
		715.3	6	0	1.398	/	Pass
	64QAM	699.7	6	0	1.379	/	Pass
		707.5	6	0	1.369	/	Pass
		715.3	6	0	1.397	/	Pass
3	QPSK	700.5	15	0	3.111	/	Pass
		707.5	15	0	3.087	/	Pass
		714.5	15	0	3.103	/	Pass
	16QAM	700.5	15	0	3.115	/	Pass
		707.5	15	0	3.117	/	Pass
		714.5	15	0	3.092	/	Pass
	64QAM	700.5	15	0	3.066	/	Pass
		707.5	15	0	3.051	/	Pass
		714.5	15	0	3.074	/	Pass
5	QPSK	701.5	25	0	5.246	/	Pass
		707.5	25	0	5.142	/	Pass
		713.5	25	0	5.207	/	Pass
	16QAM	701.5	25	0	5.244	/	Pass
		707.5	25	0	5.129	/	Pass
		713.5	25	0	5.198	/	Pass
	64QAM	701.5	25	0	5.203	/	Pass
		707.5	25	0	5.216	/	Pass
		713.5	25	0	5.204	/	Pass
10	QPSK	704	50	0	10.239	/	Pass
		707.5	50	0	10.115	/	Pass
		711	50	0	10.212	/	Pass
	16QAM	704	50	0	10.210	/	Pass
		707.5	50	0	10.209	/	Pass
		711	50	0	10.105	/	Pass
	64QAM	704	50	0	10.264	/	Pass
		707.5	50	0	10.097	/	Pass
		711	50	0	10.119	/	Pass

3.2 Test Graph

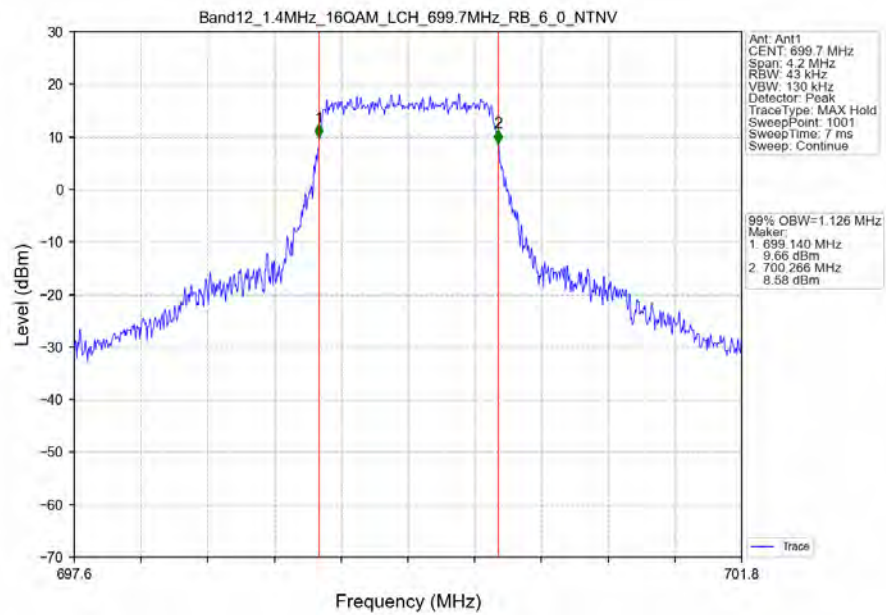
3.2.1 Band12_OBW



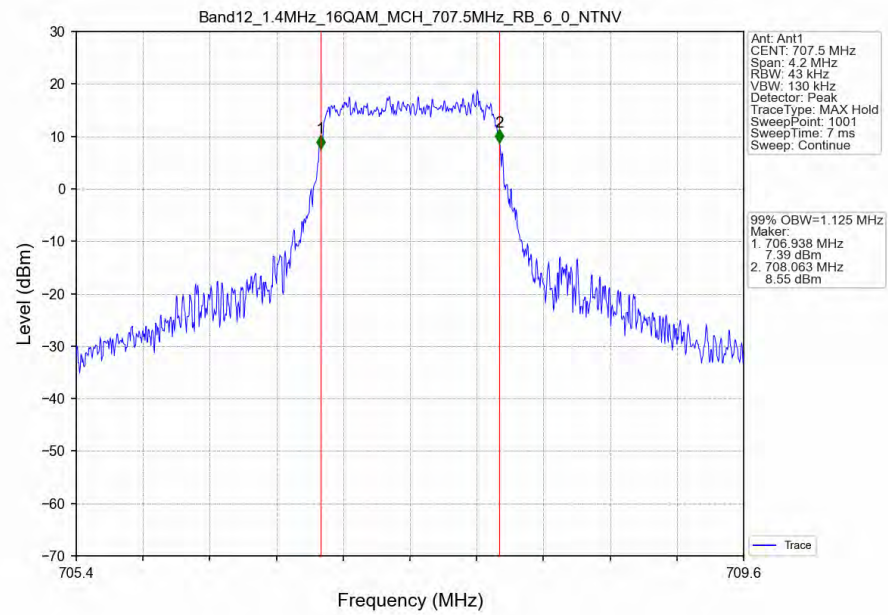
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



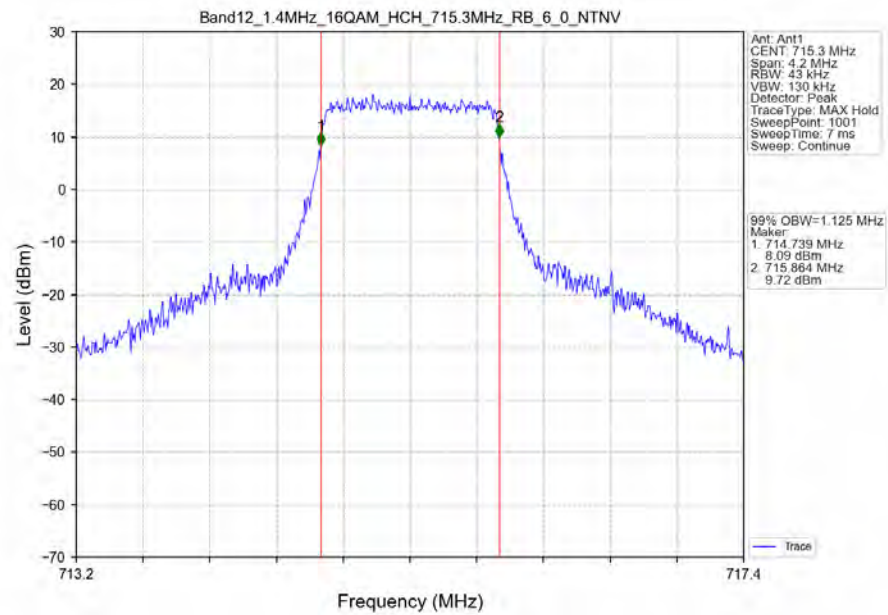
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



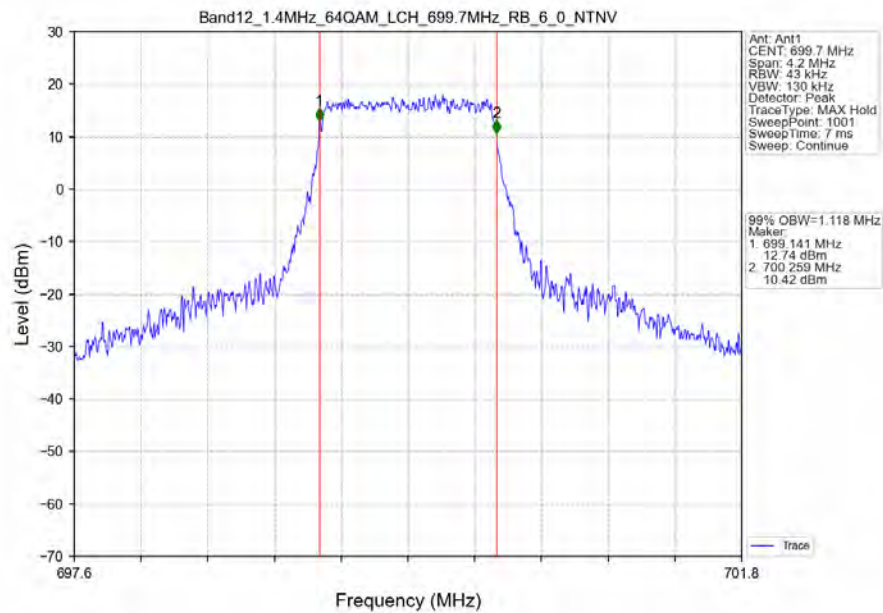
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



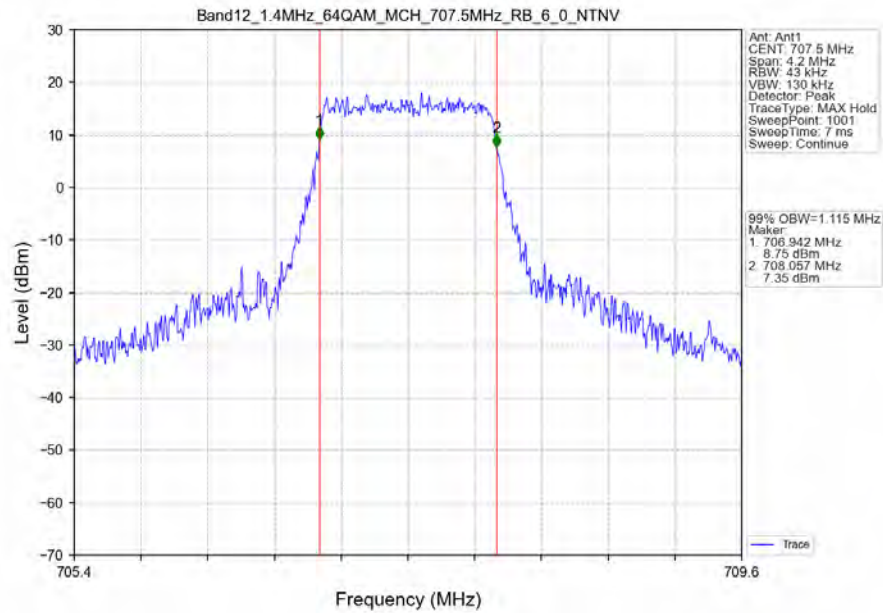
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



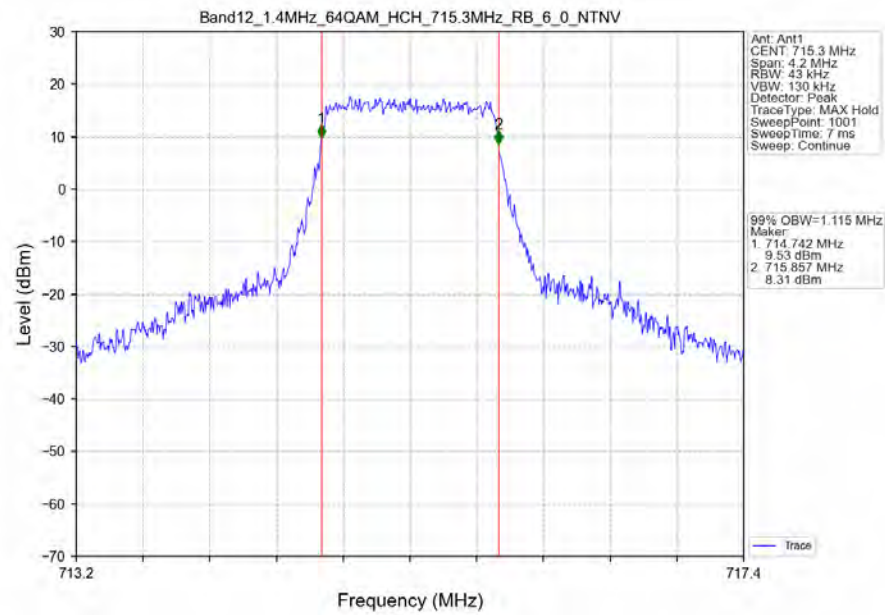
Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_6_0_NTNV



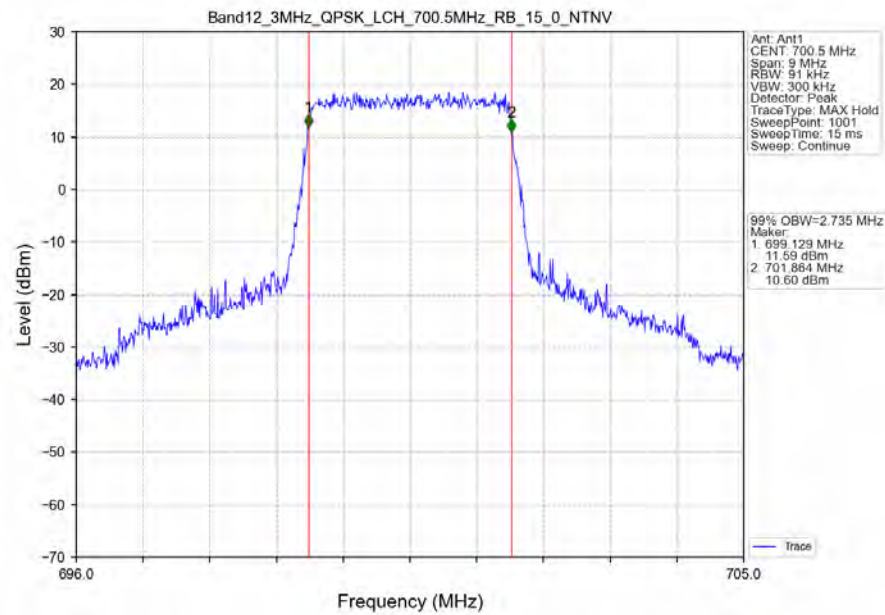
Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



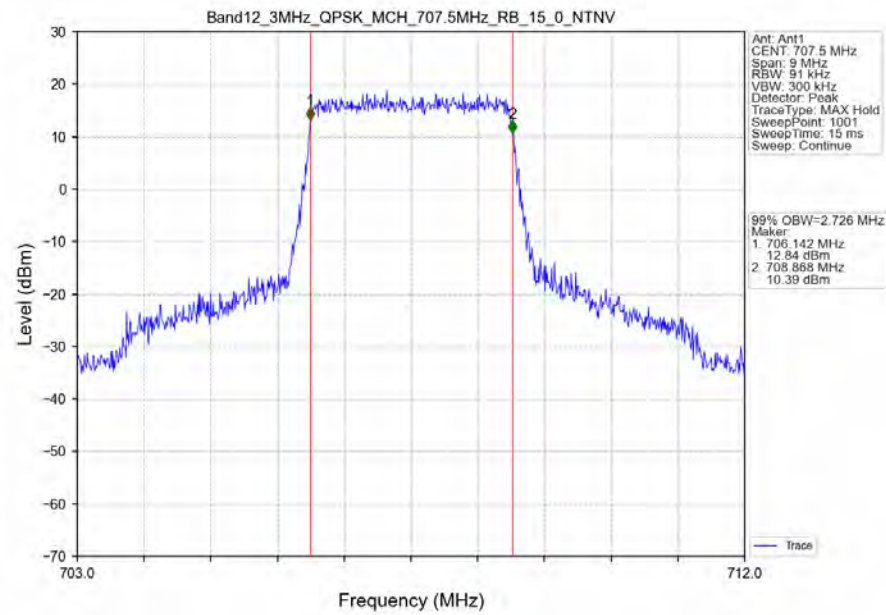
Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



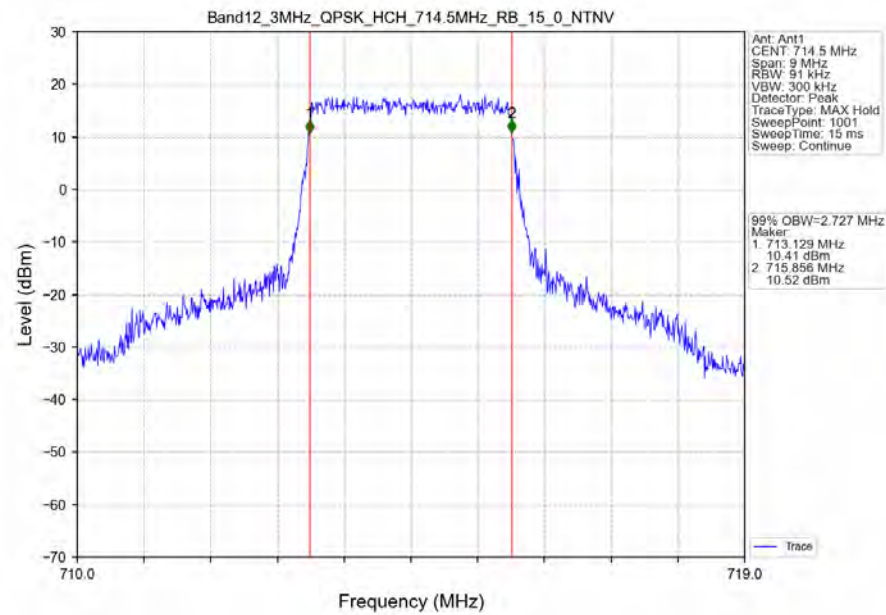
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



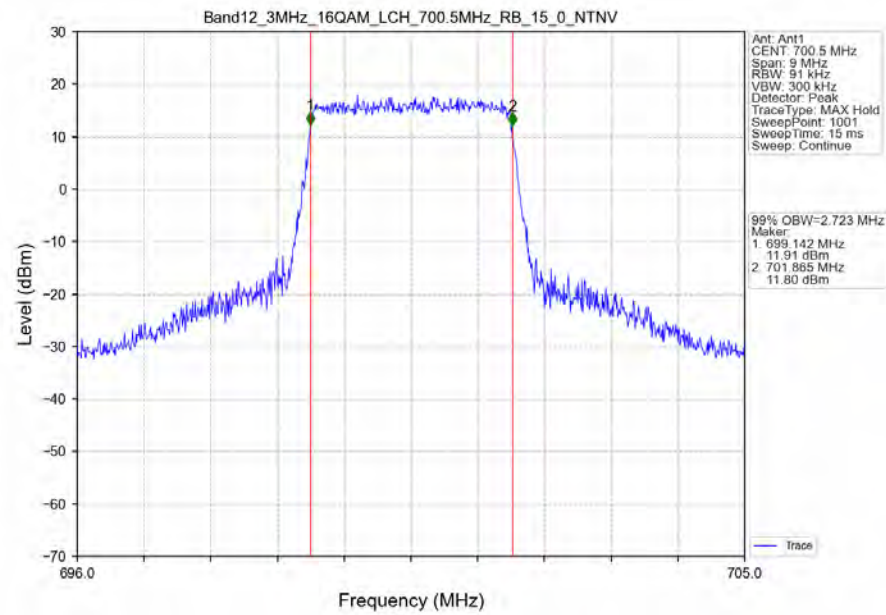
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



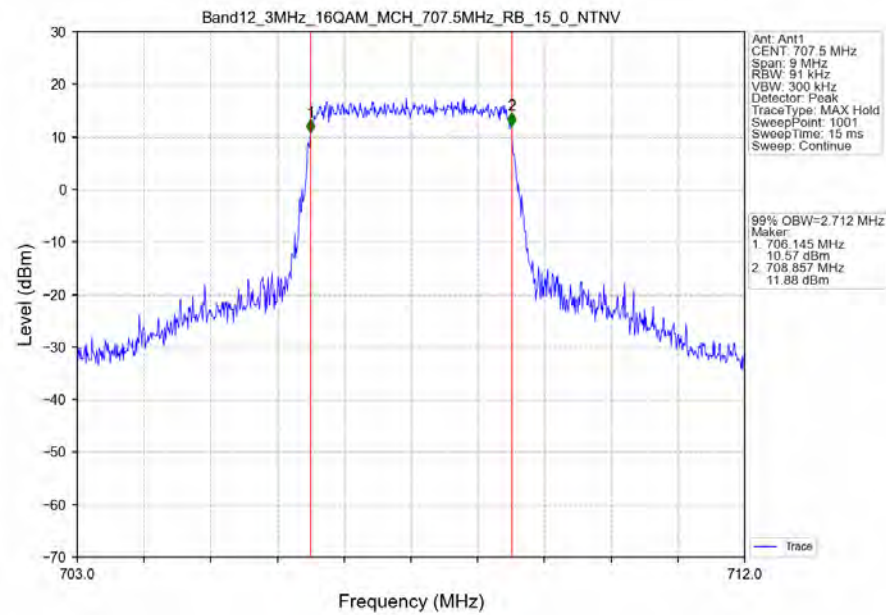
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



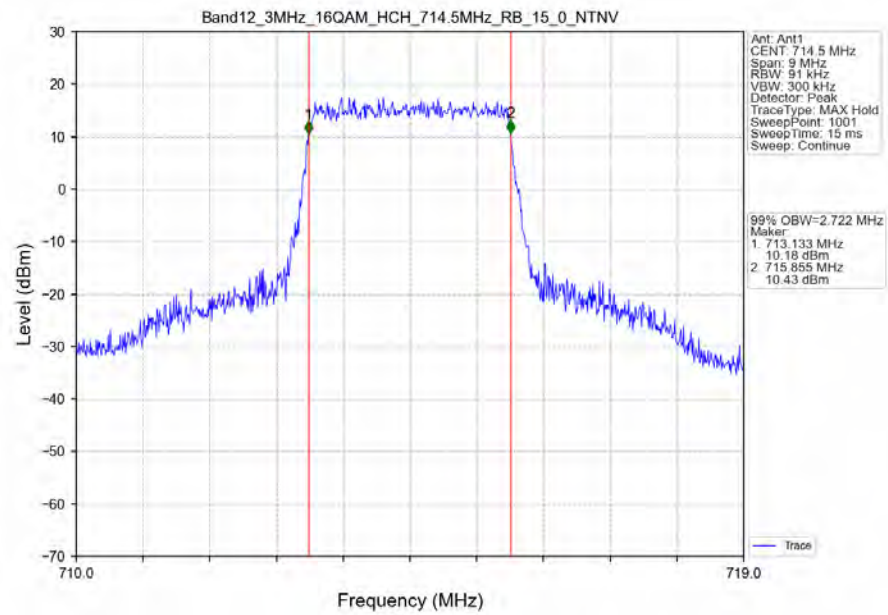
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



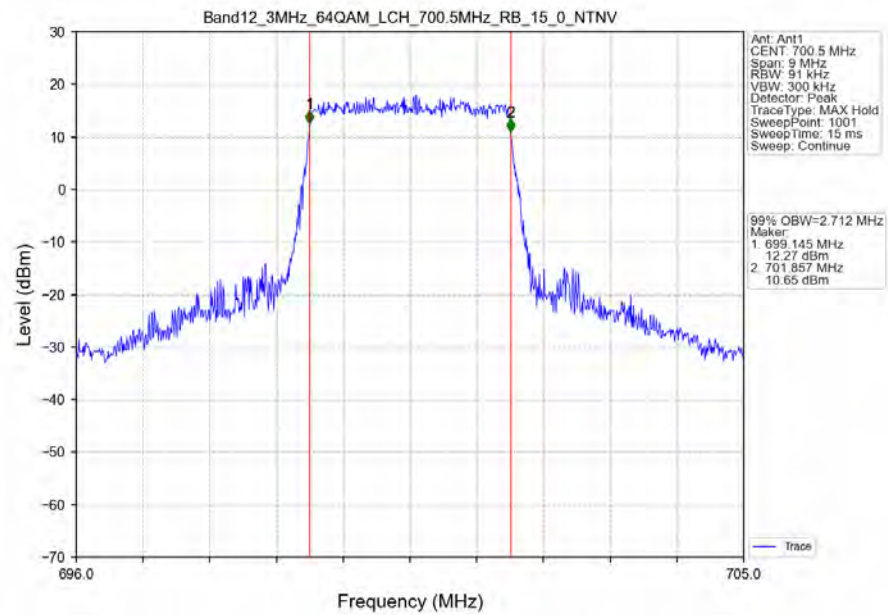
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



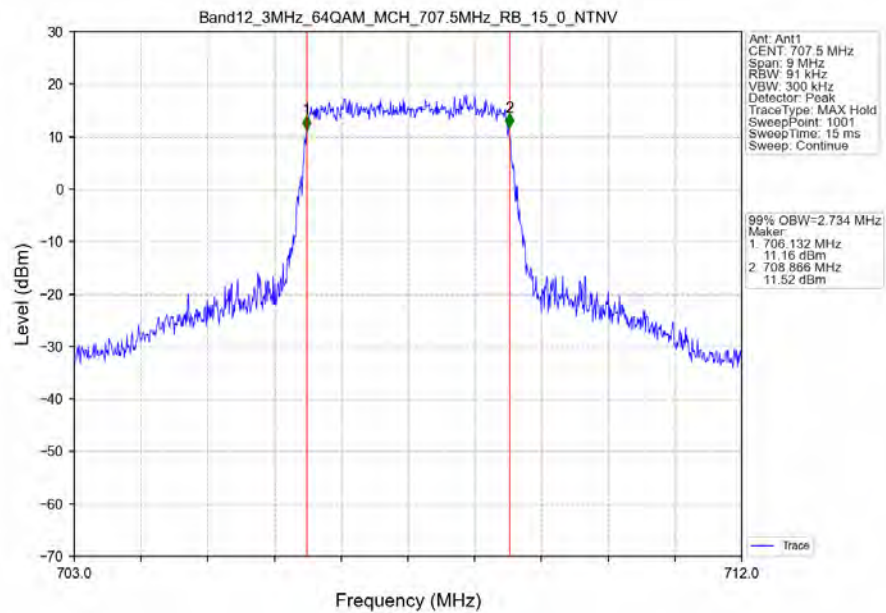
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



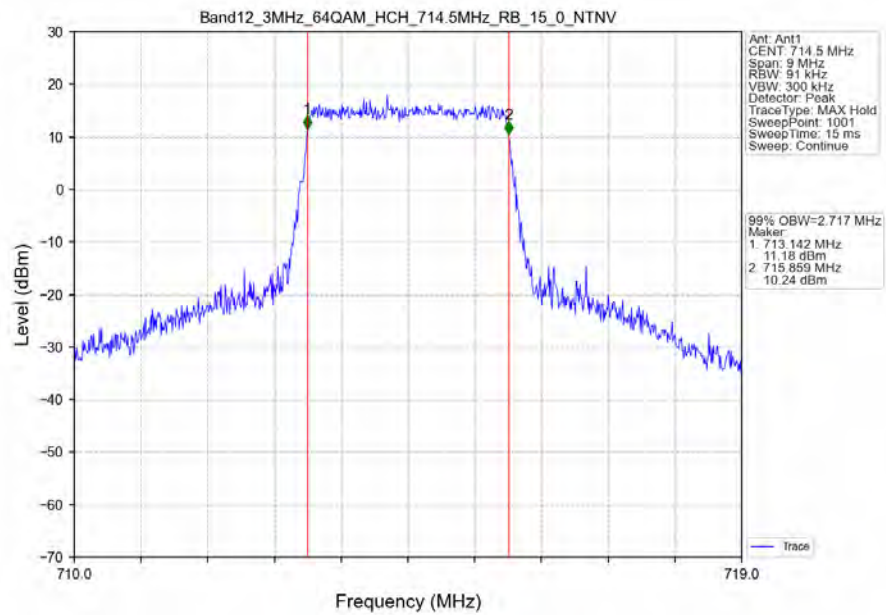
Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



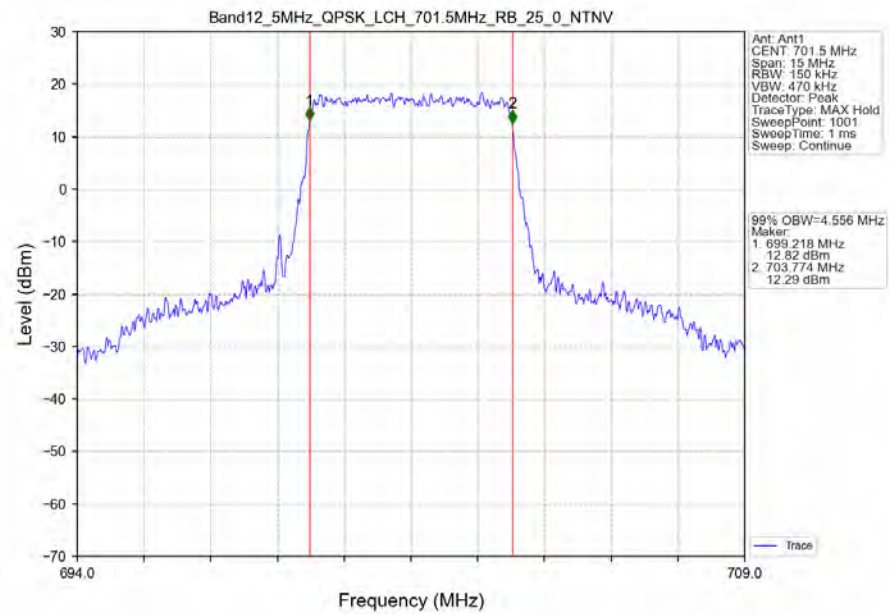
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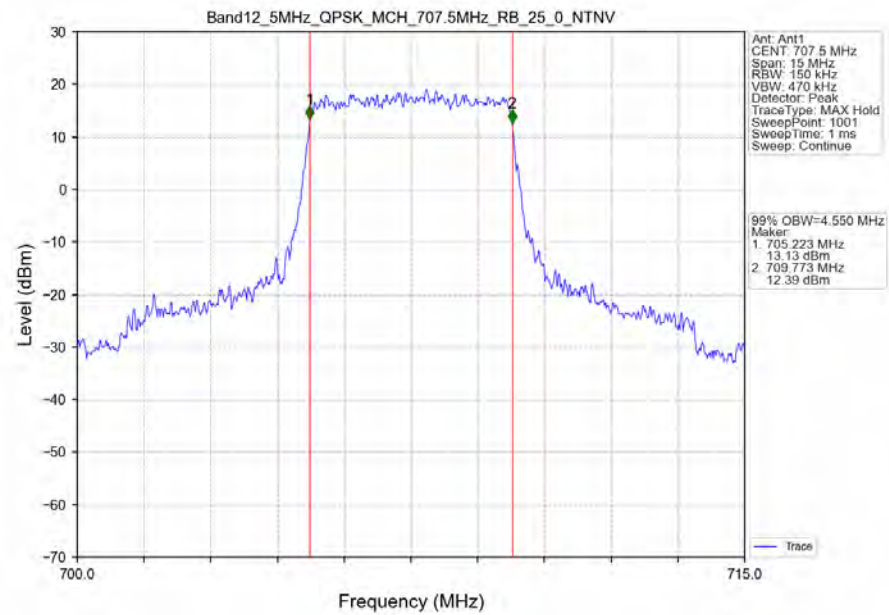
Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



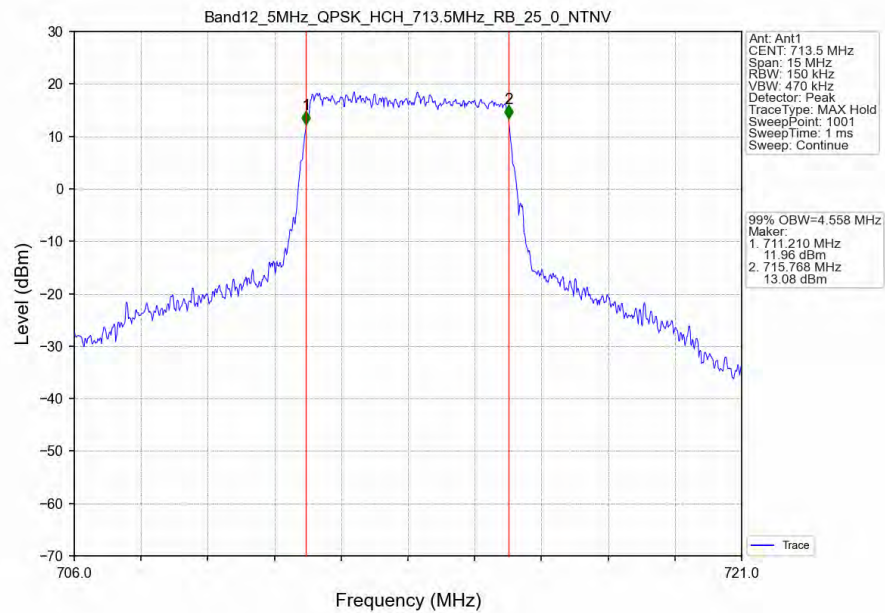
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



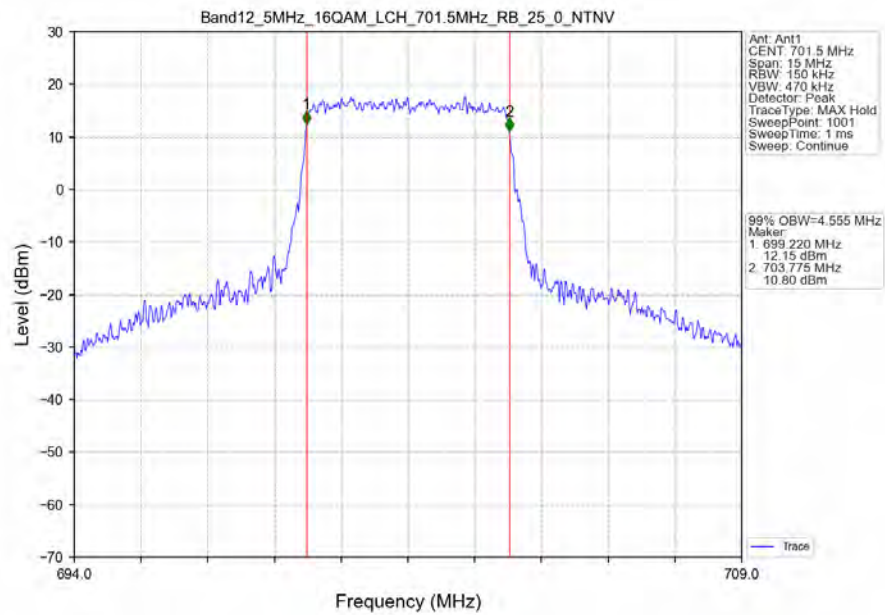
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



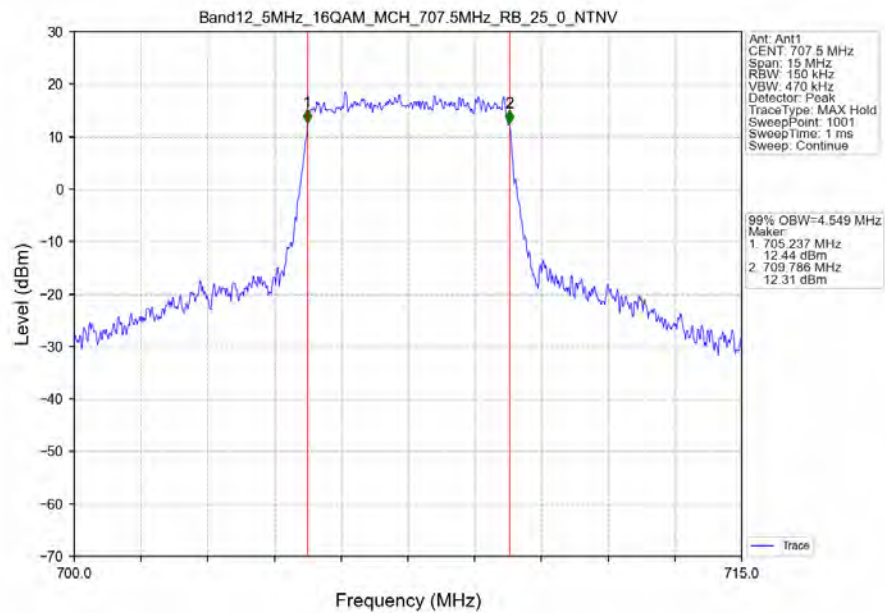
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



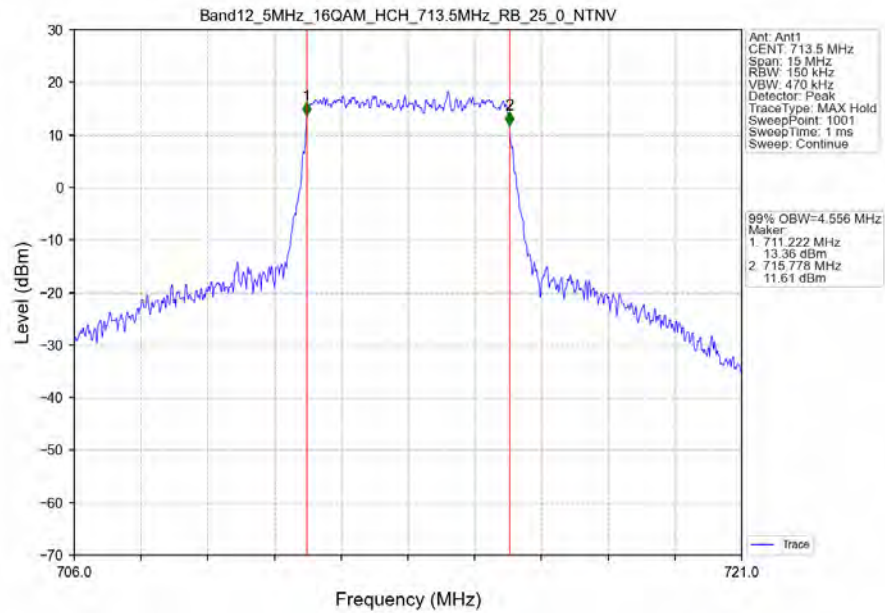
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



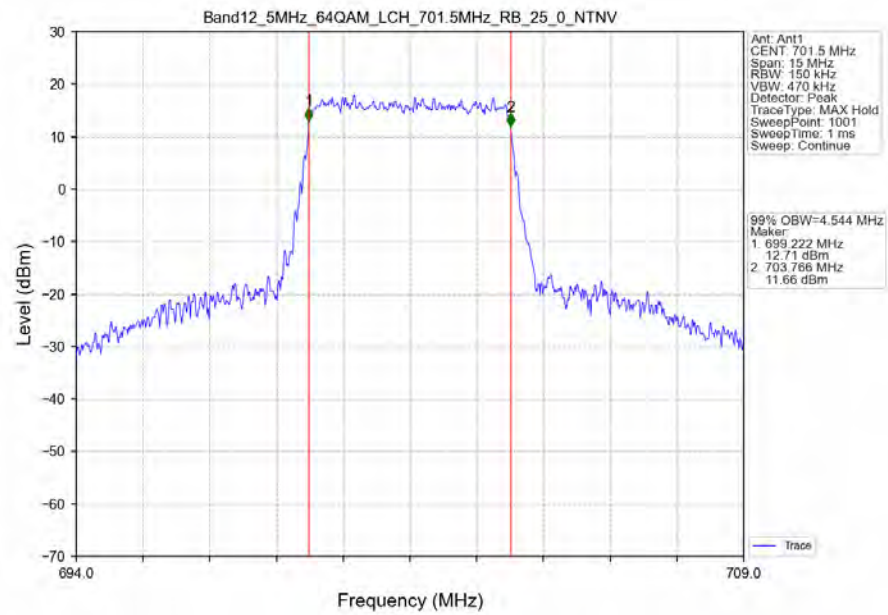
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



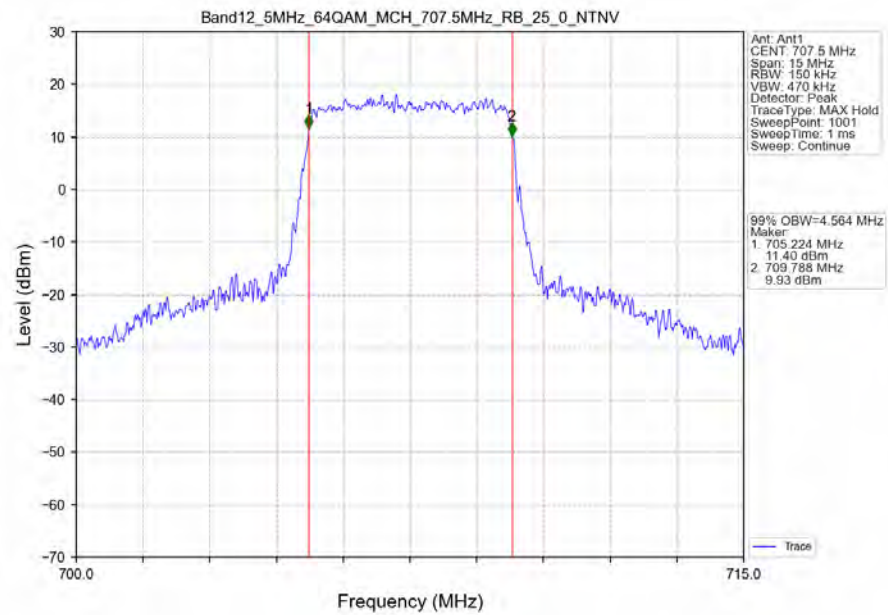
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



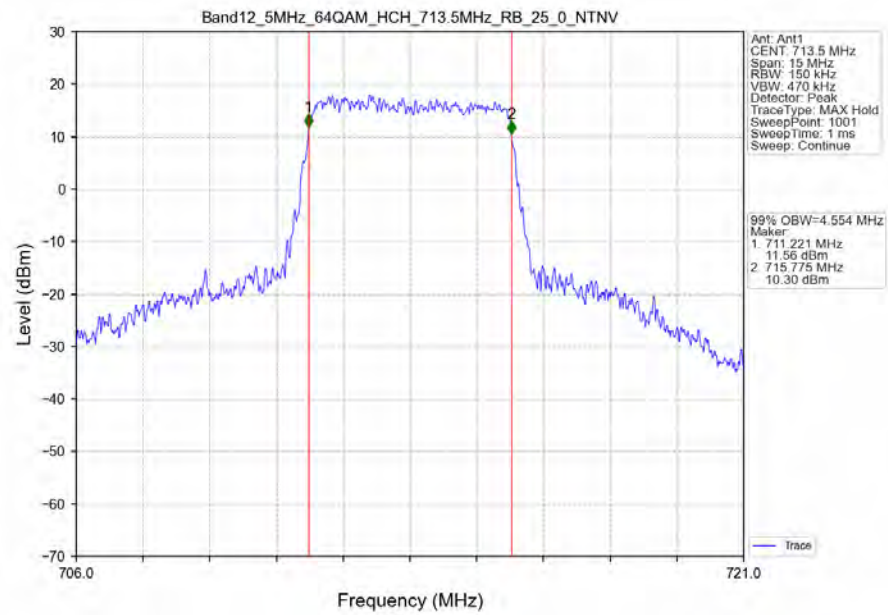
Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



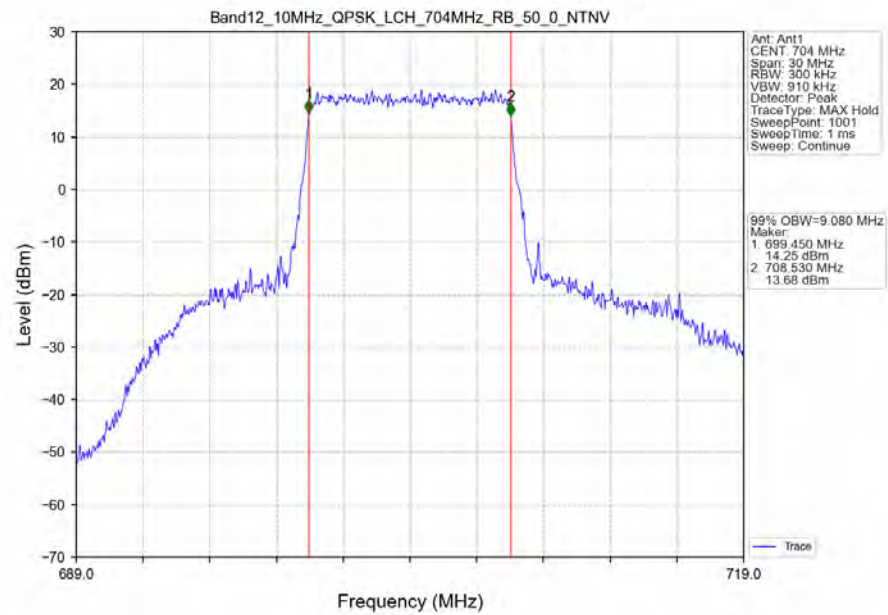
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



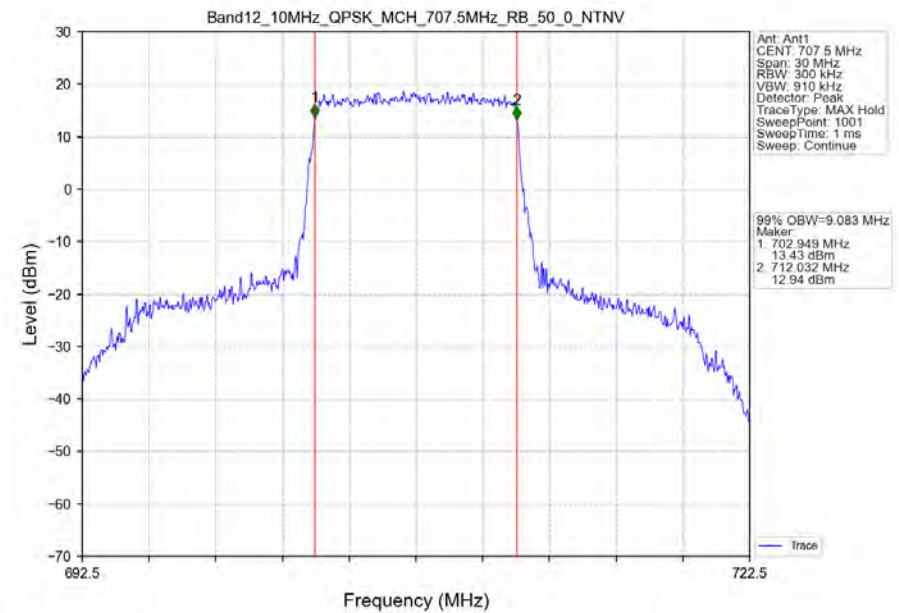
Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



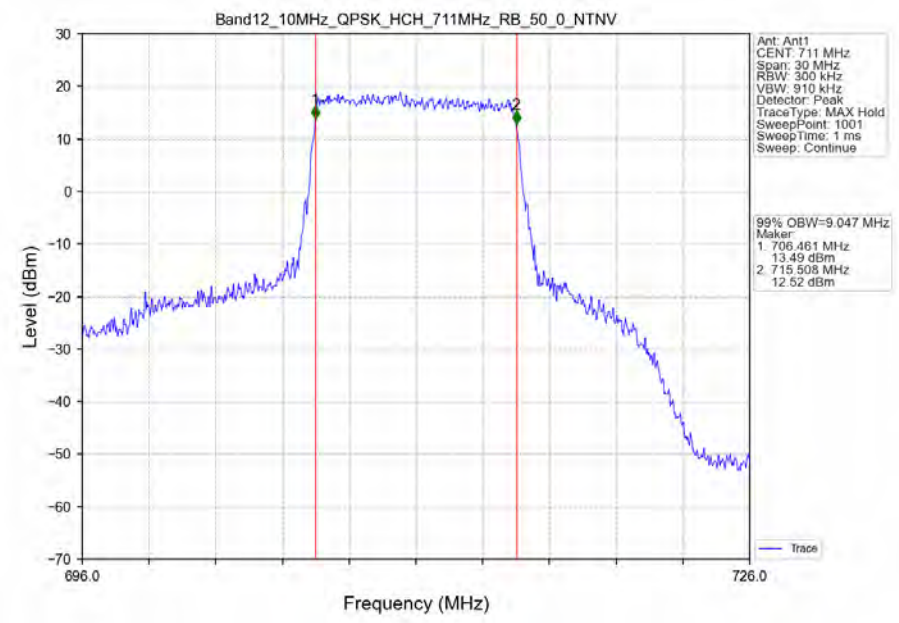
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



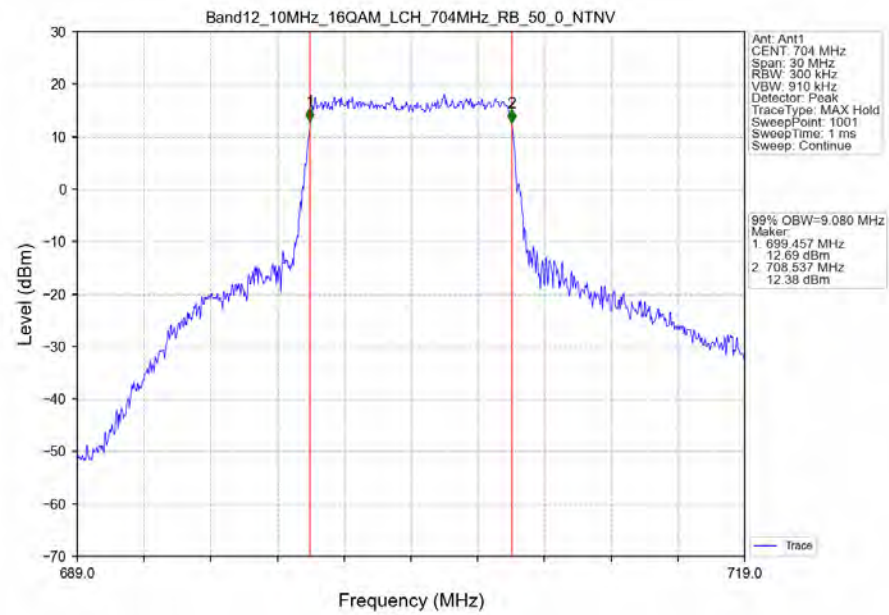
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



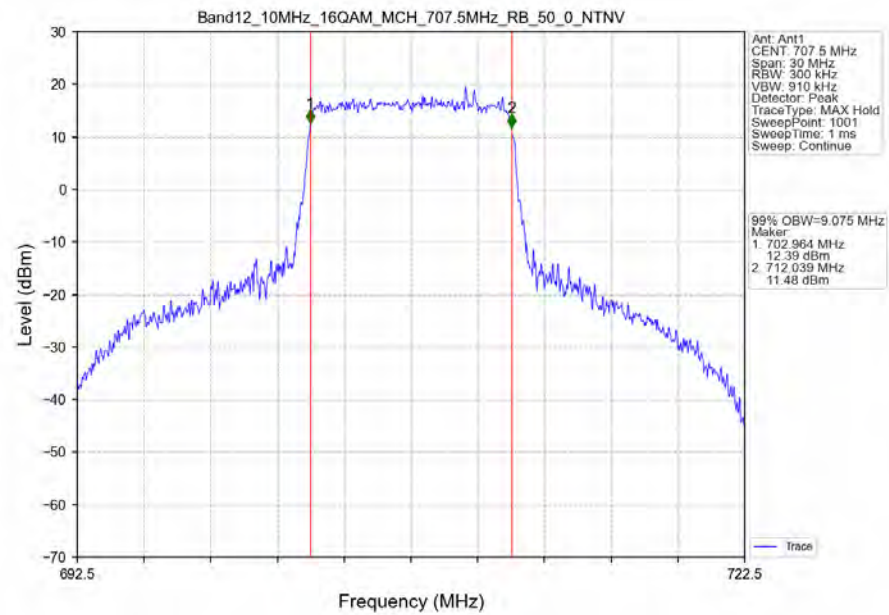
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



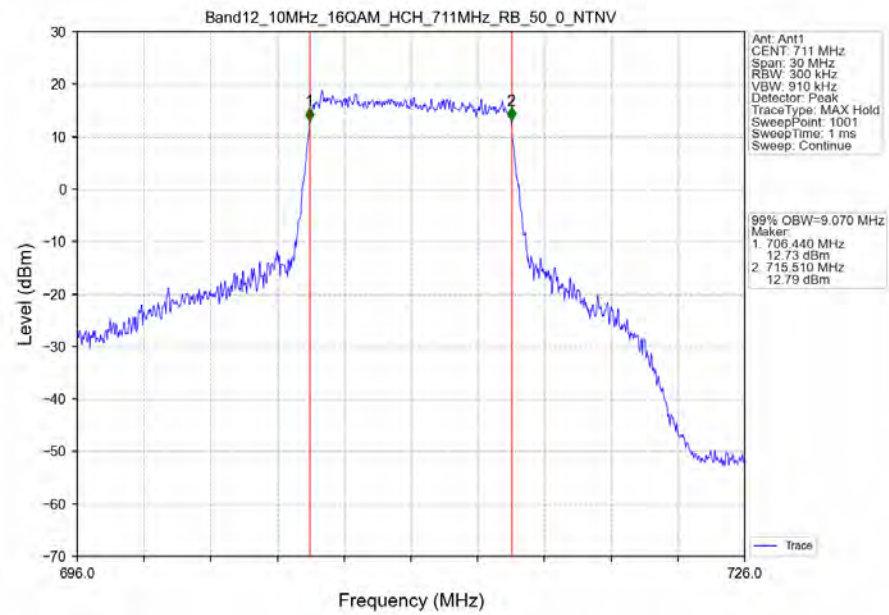
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



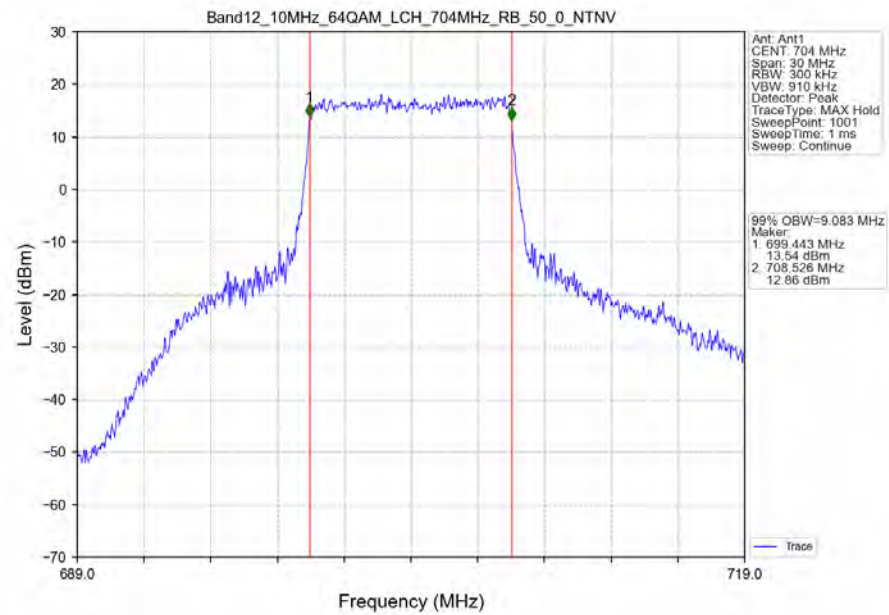
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



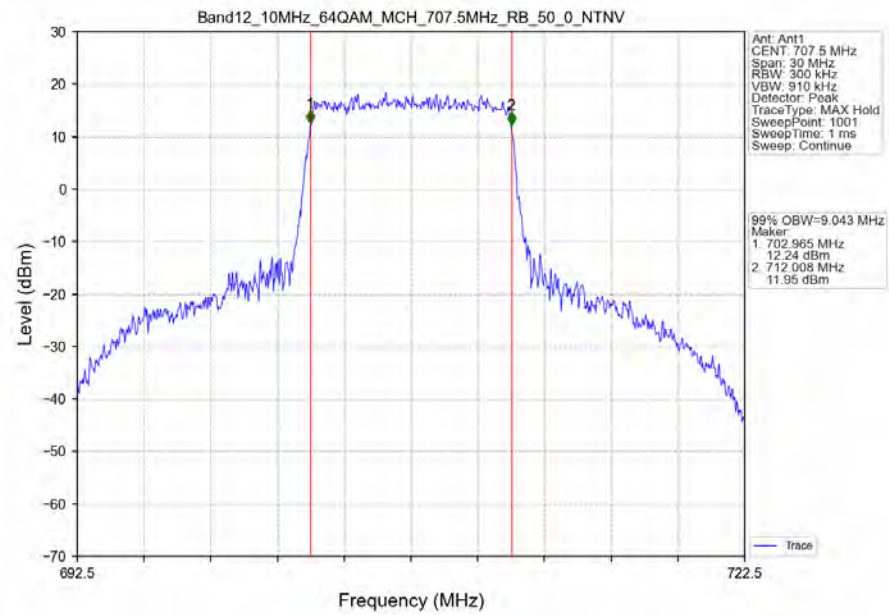
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



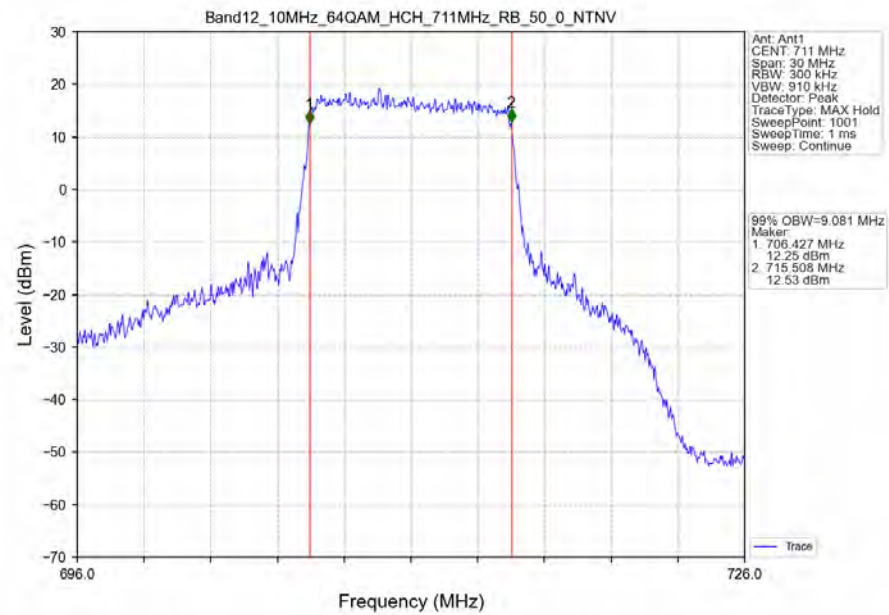
Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV

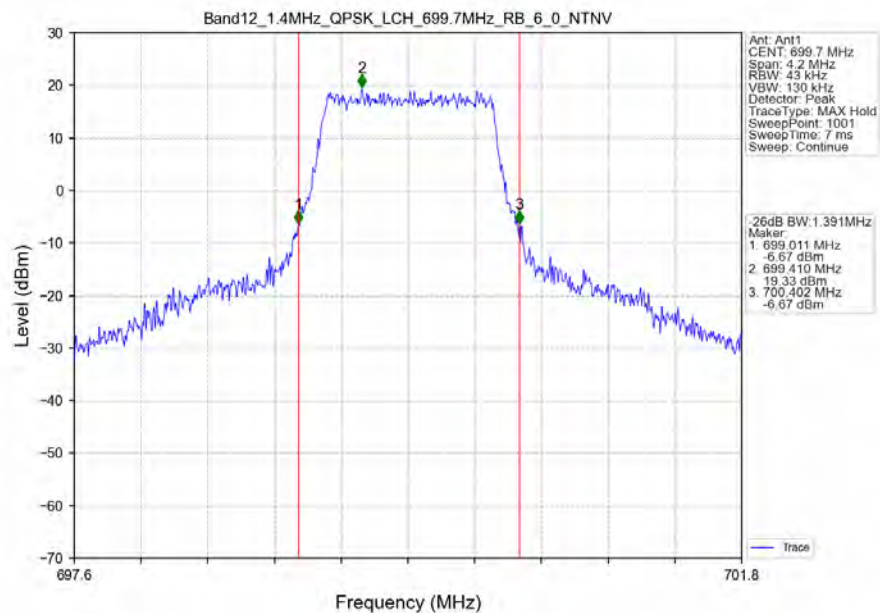


Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV

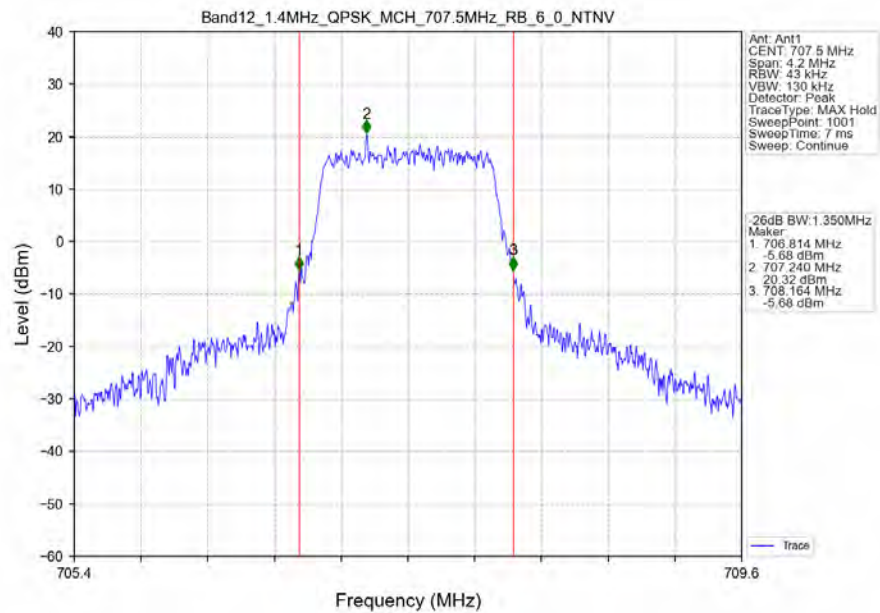


3.2.2 Band12_XDB

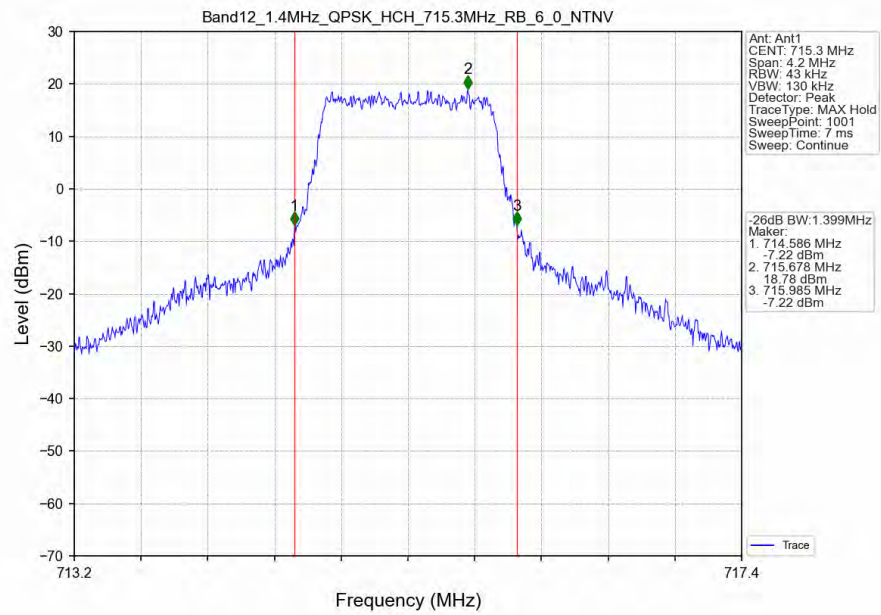
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



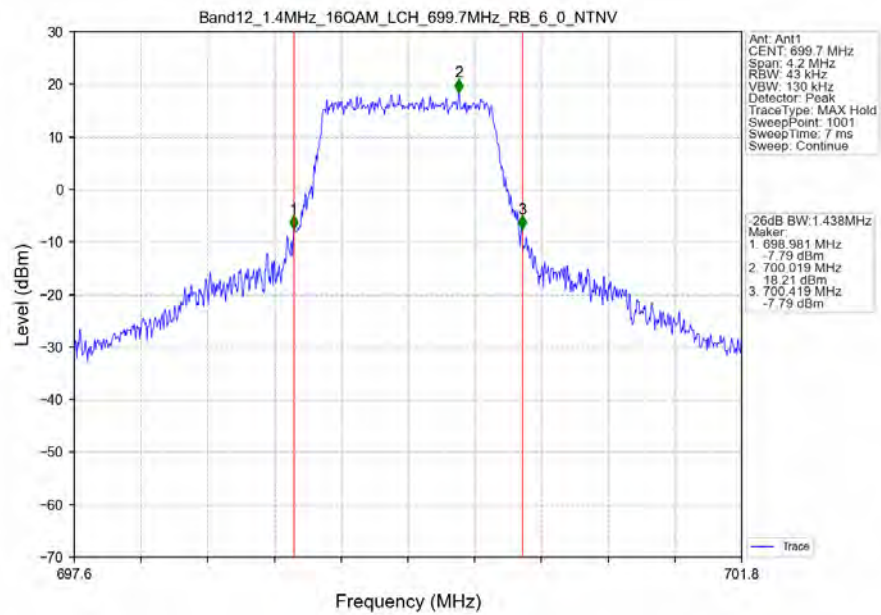
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



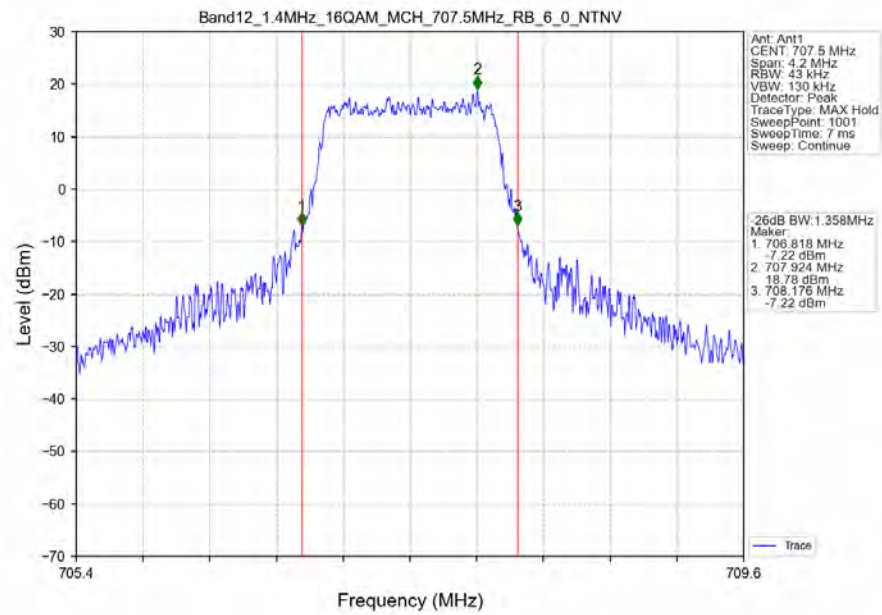
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



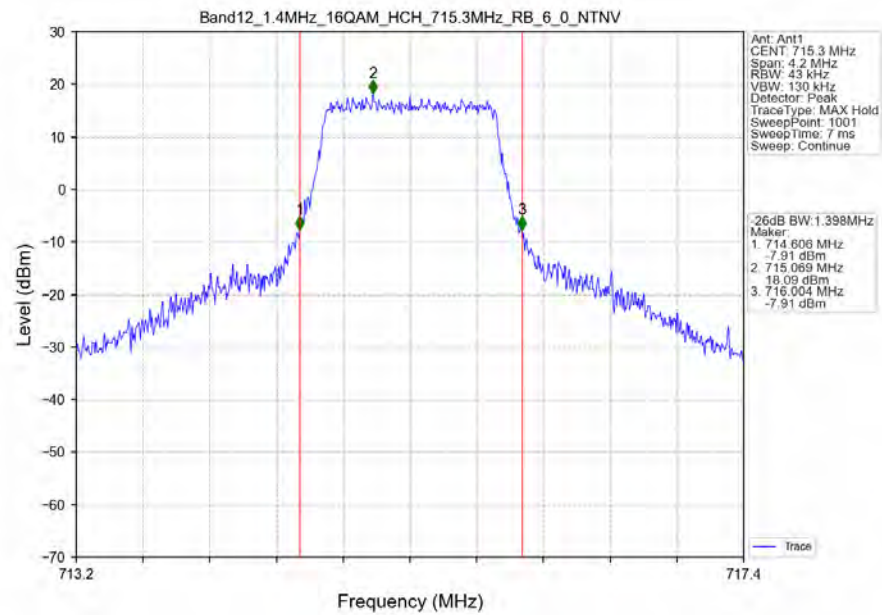
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



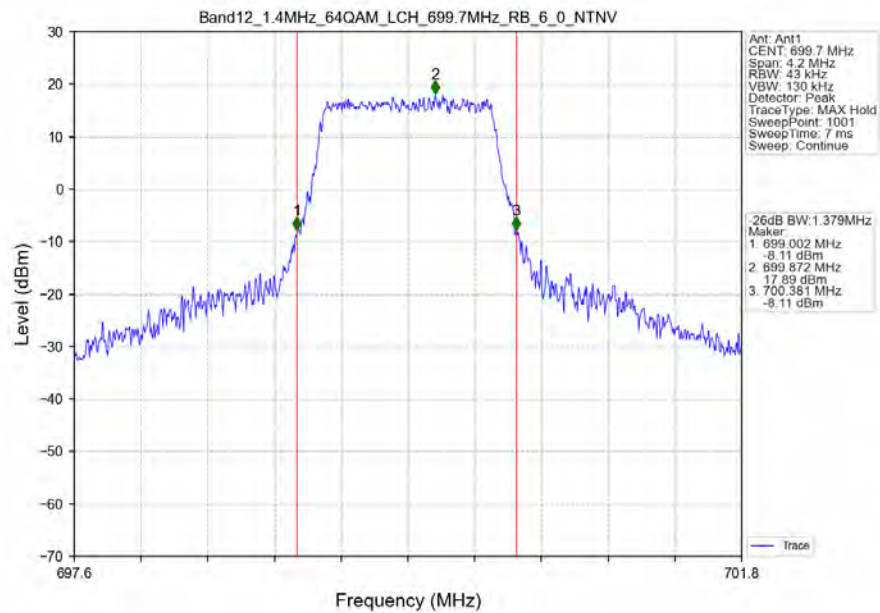
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



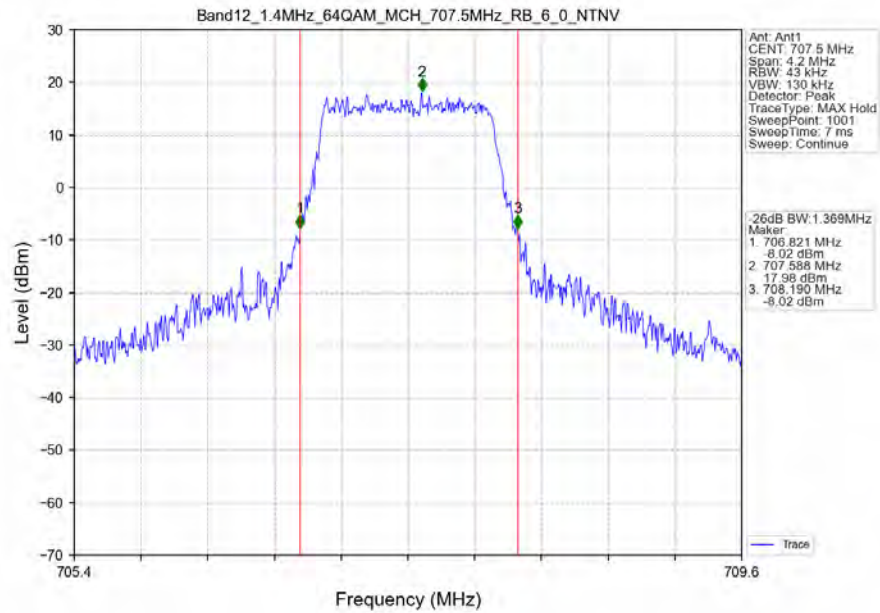
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



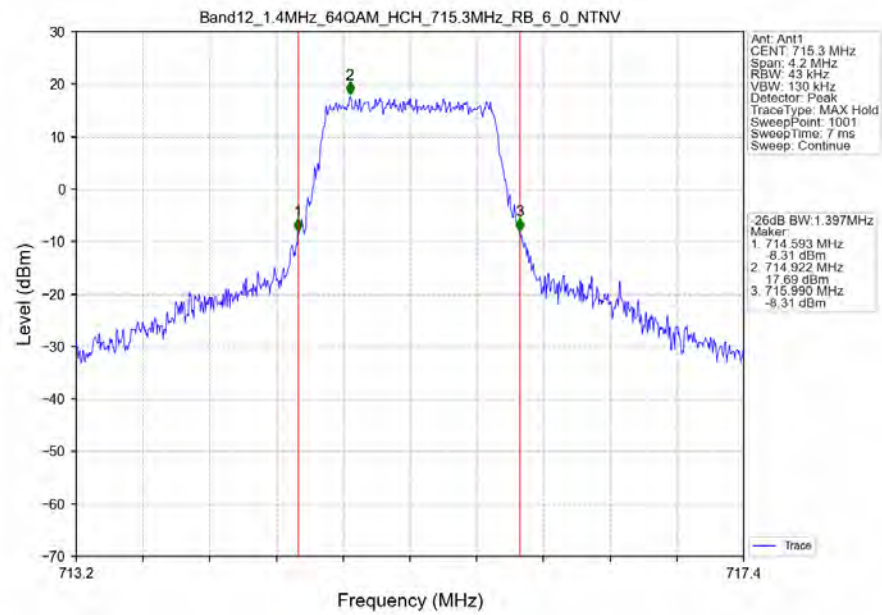
Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_6_0_NTNV



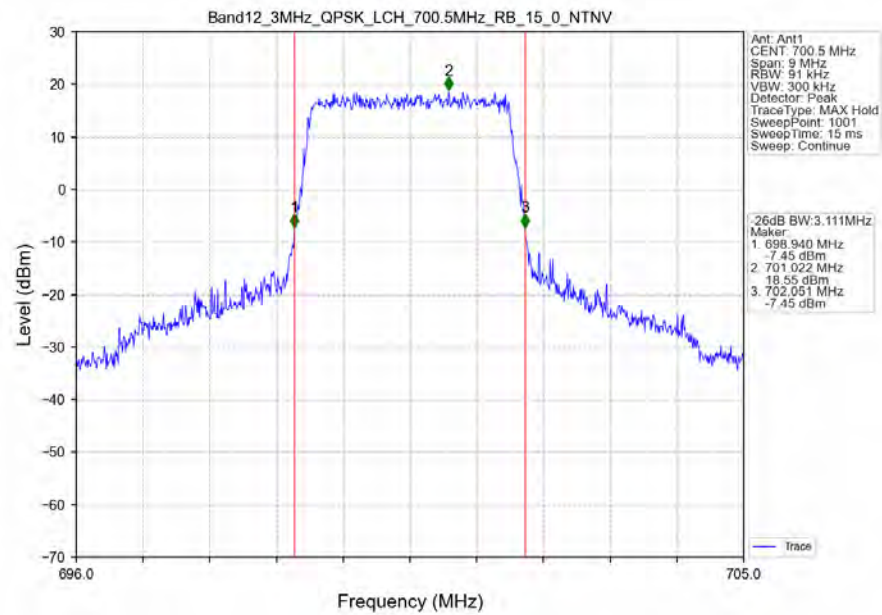
Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



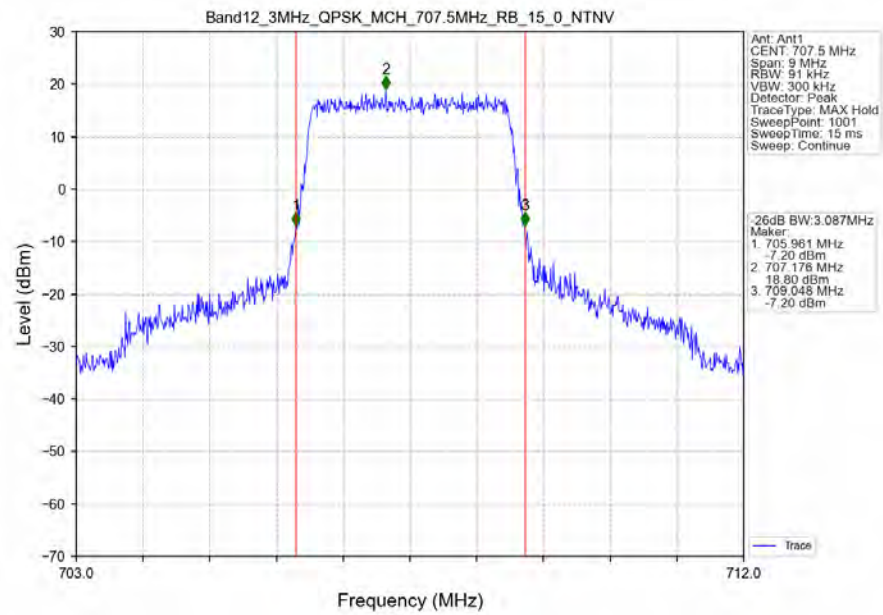
Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



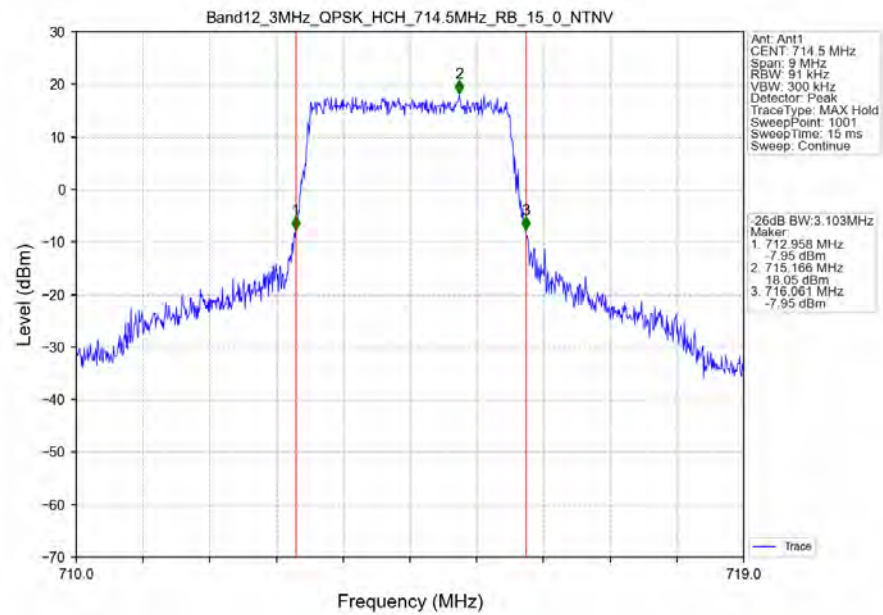
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



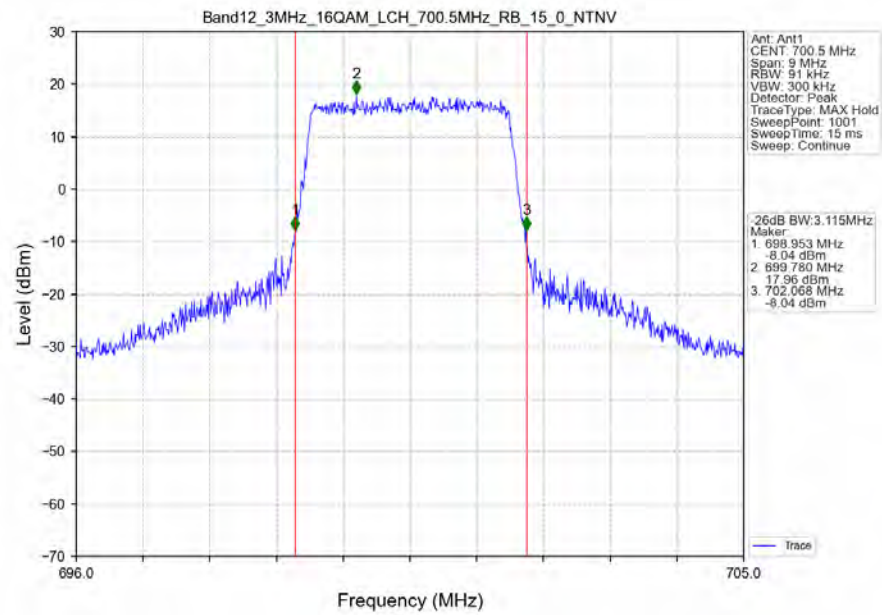
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



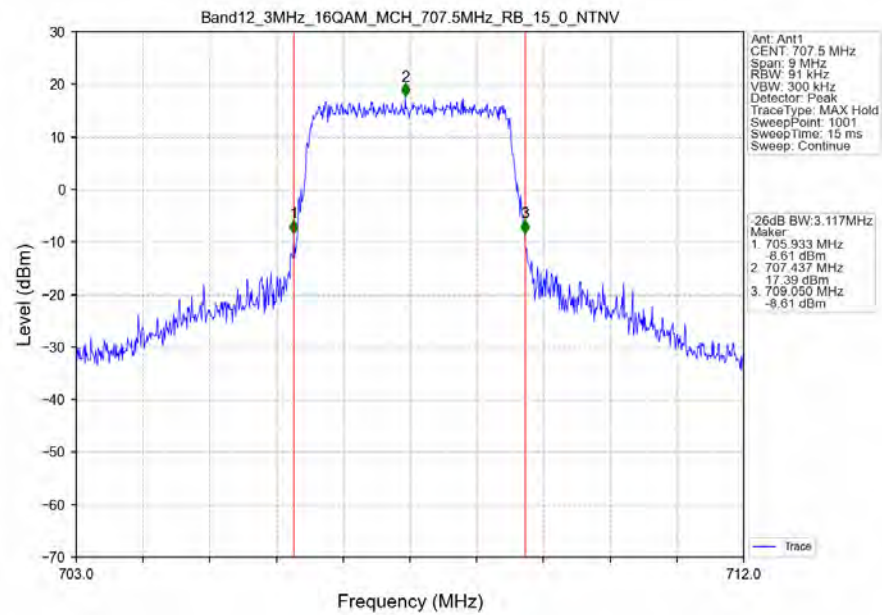
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



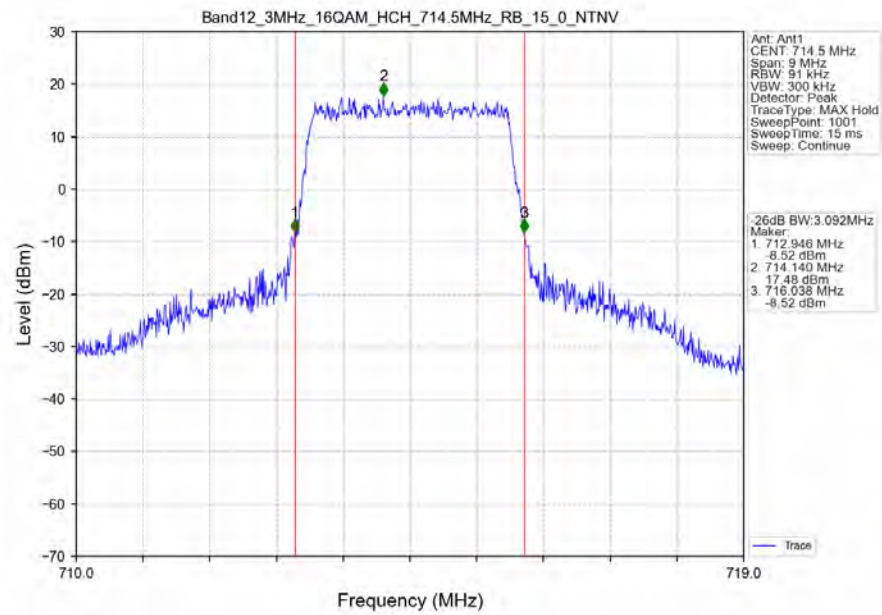
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



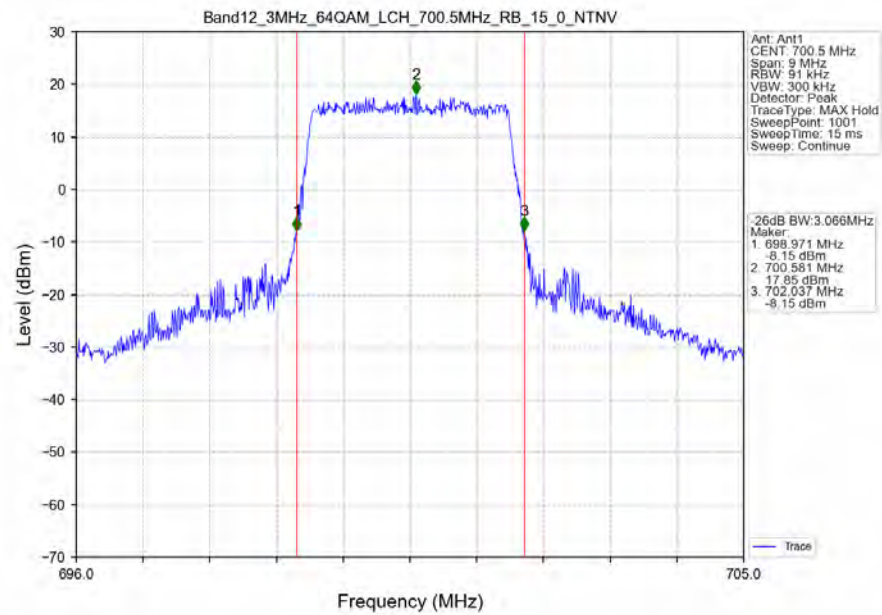
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



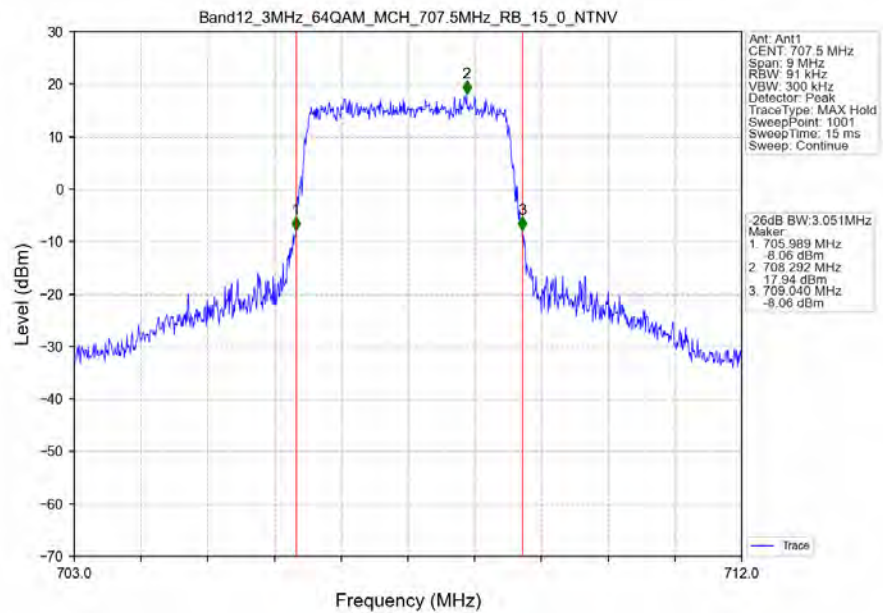
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



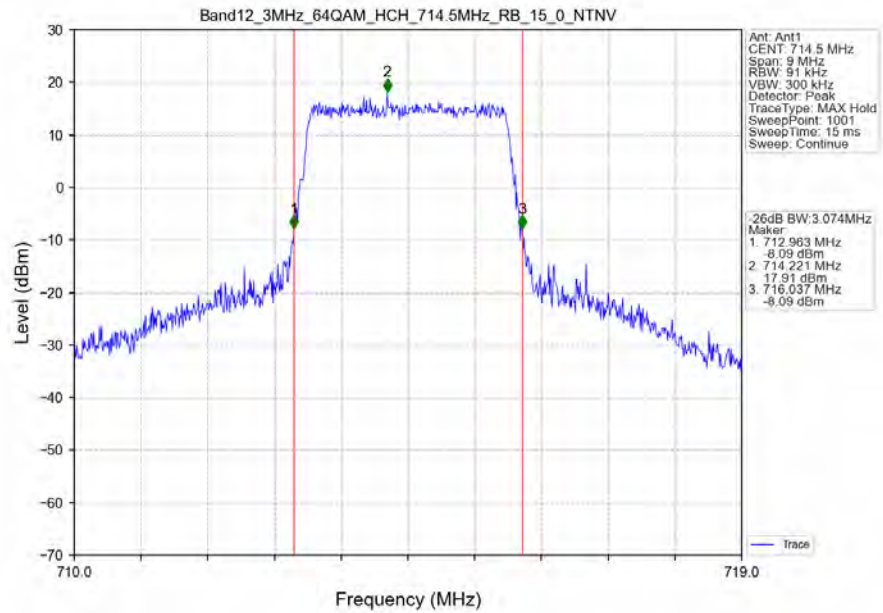
Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



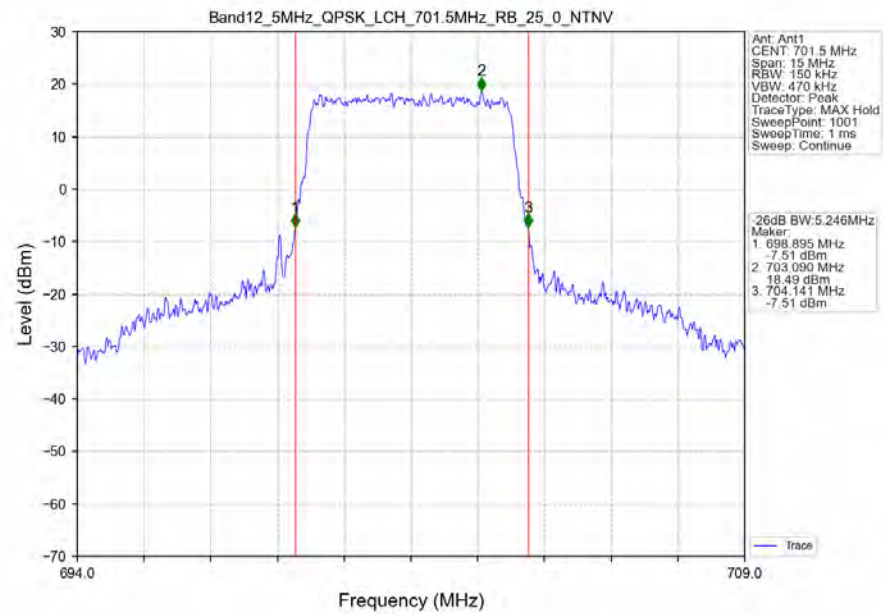
Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



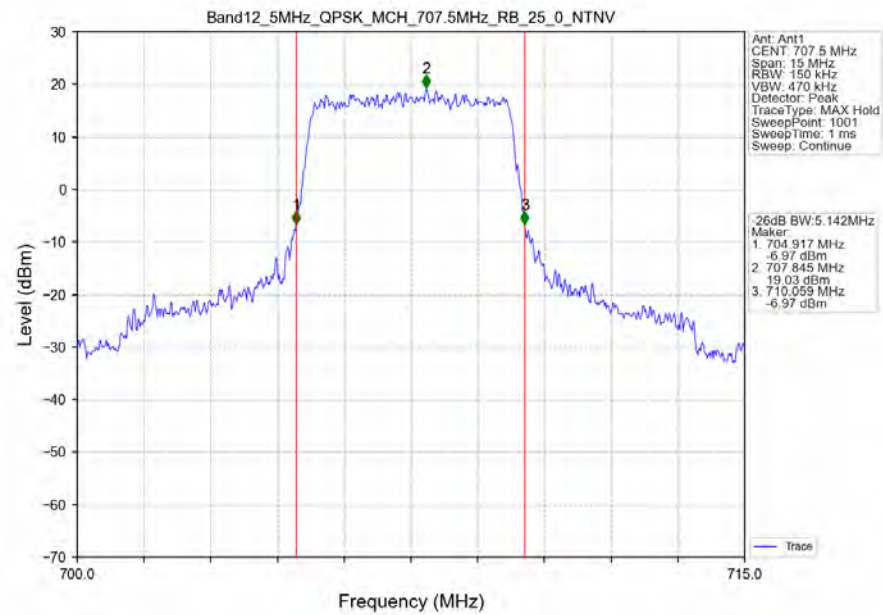
Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



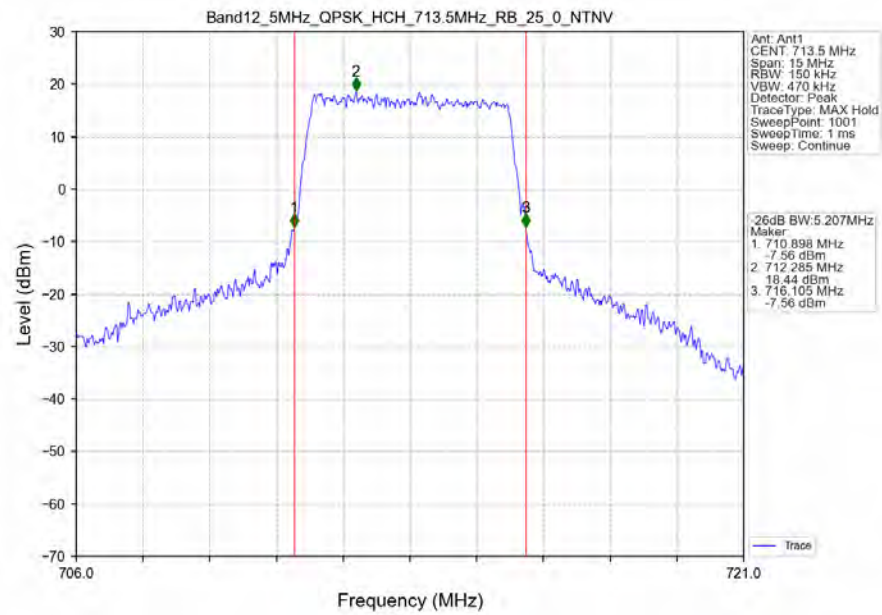
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



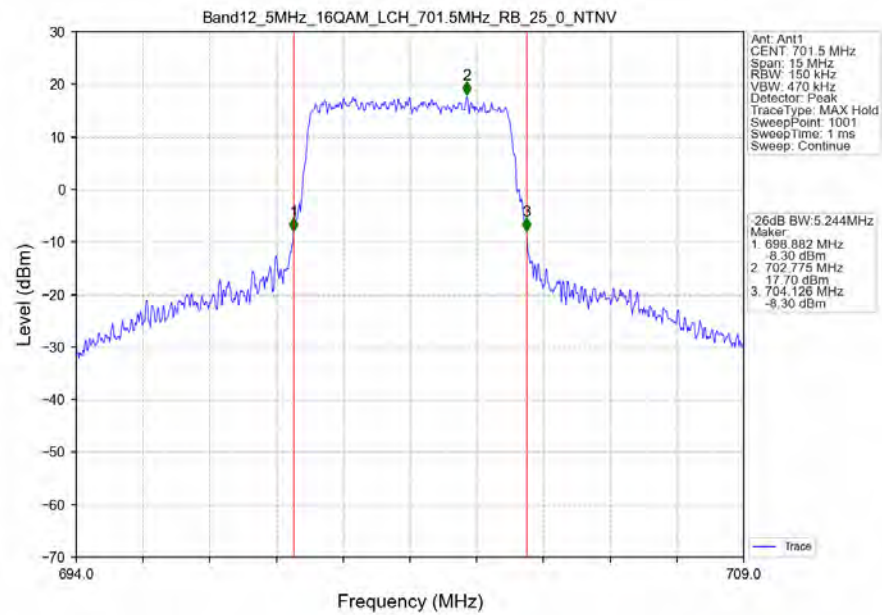
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



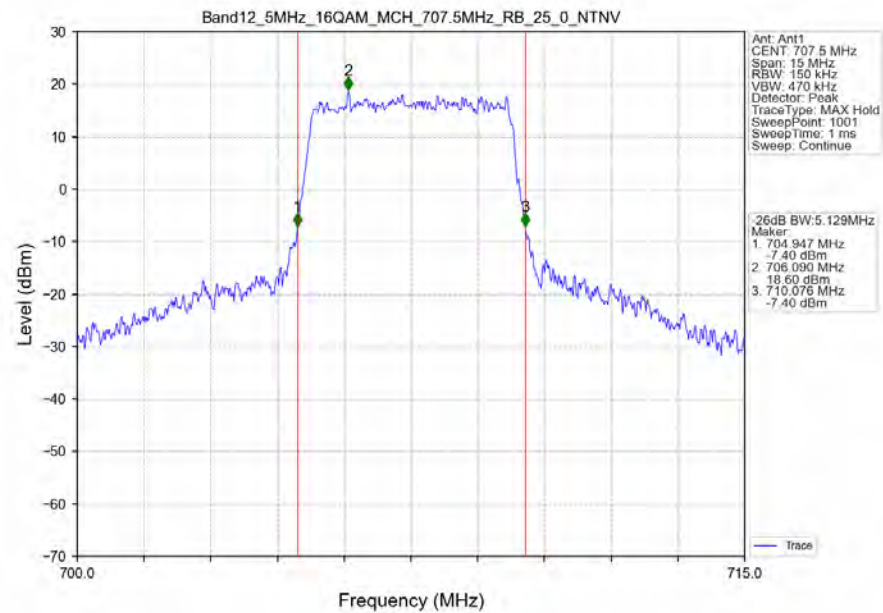
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



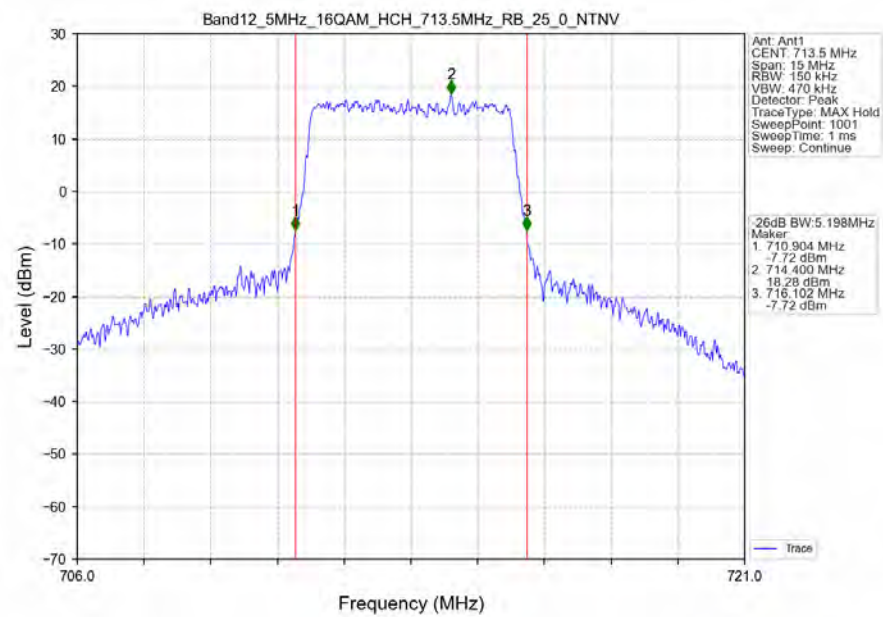
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



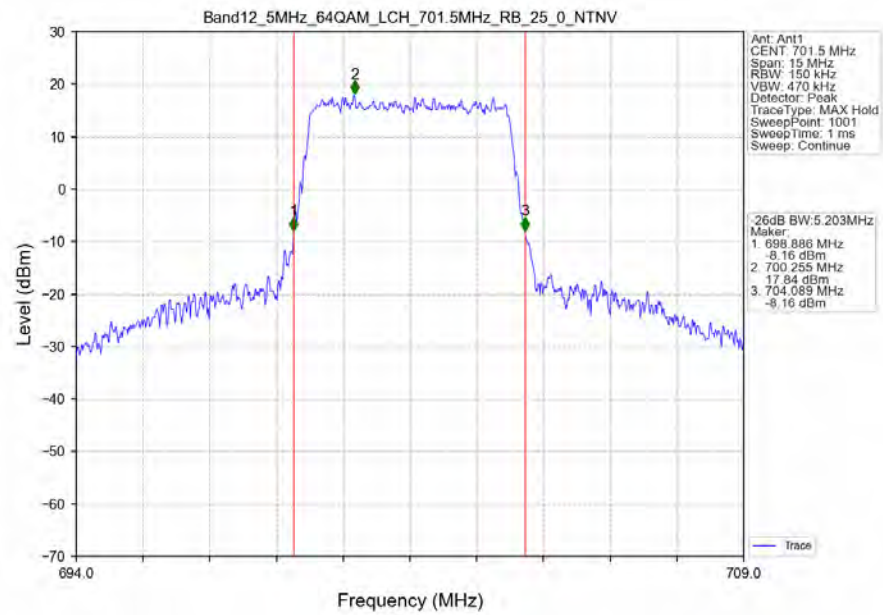
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



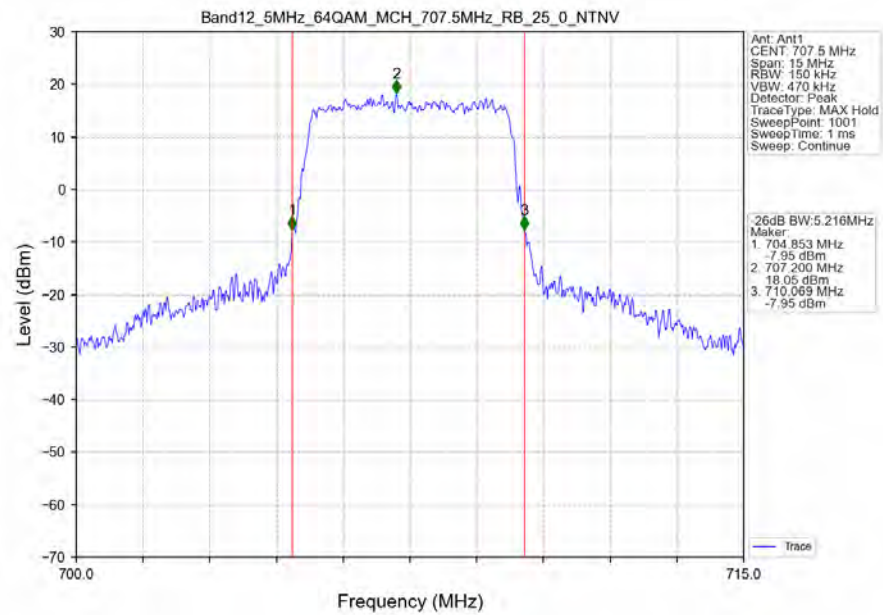
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



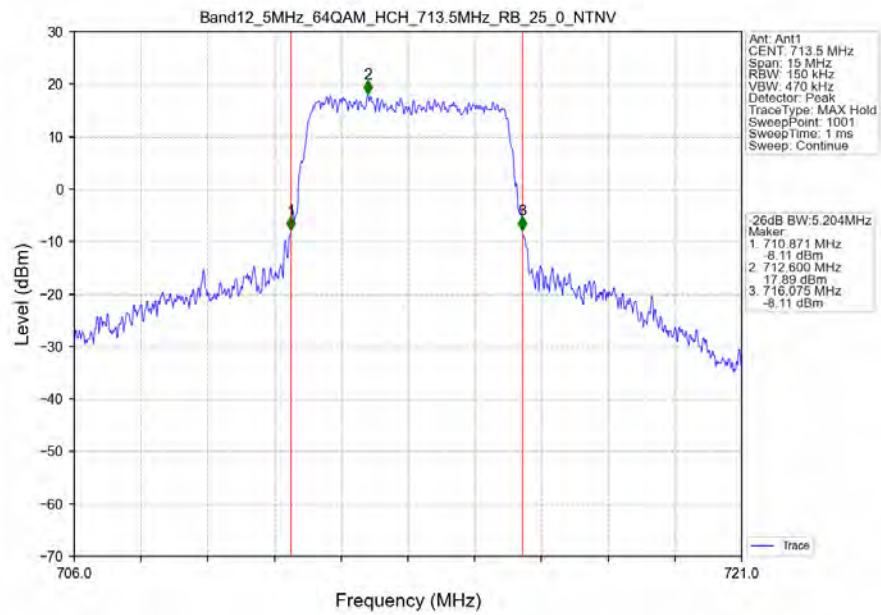
Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



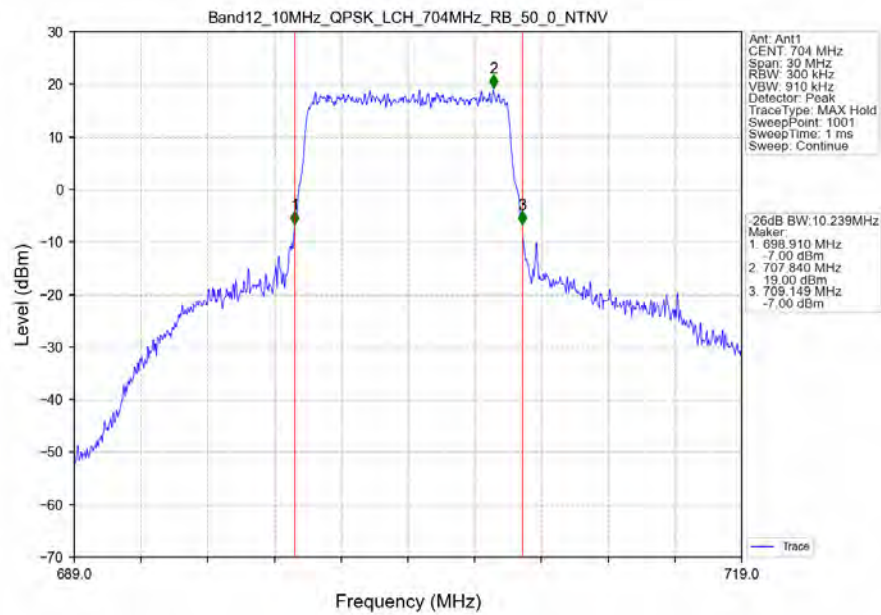
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



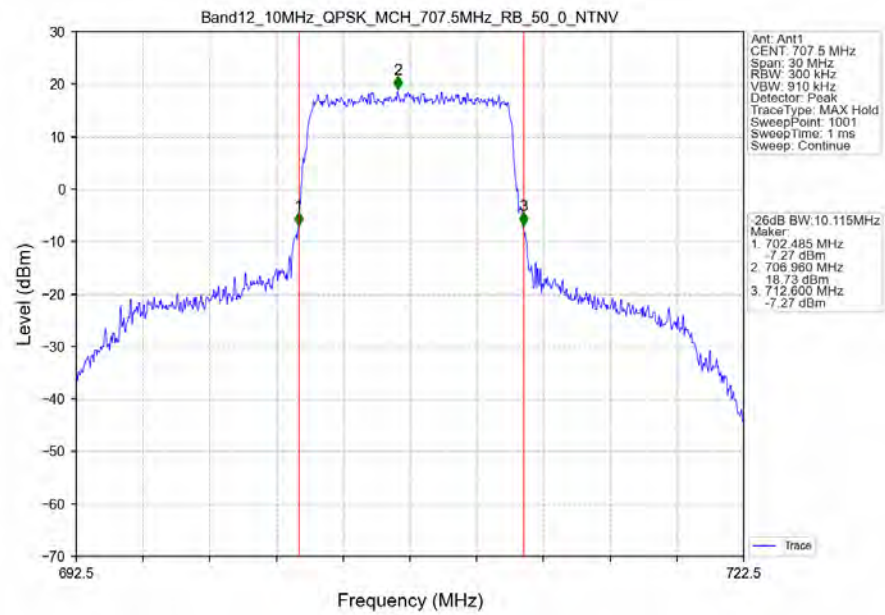
Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



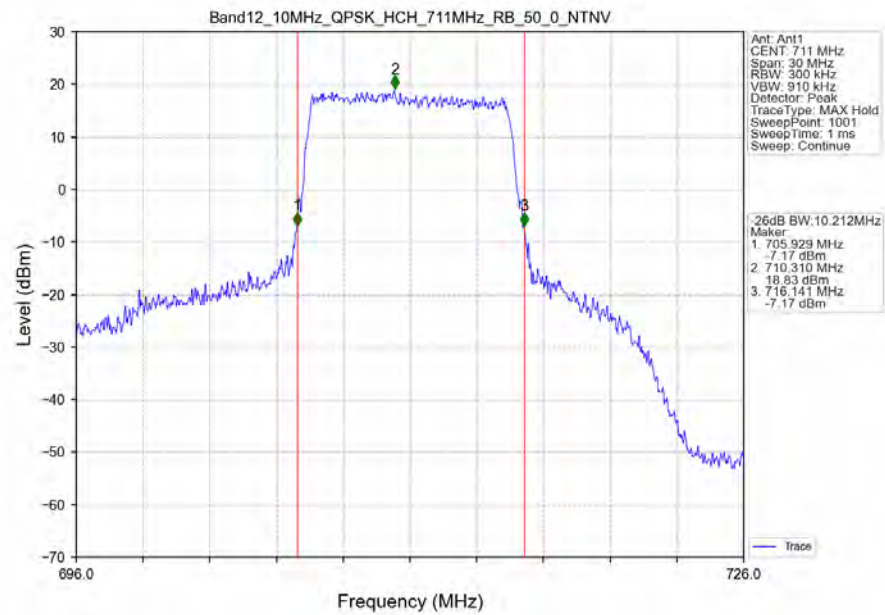
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



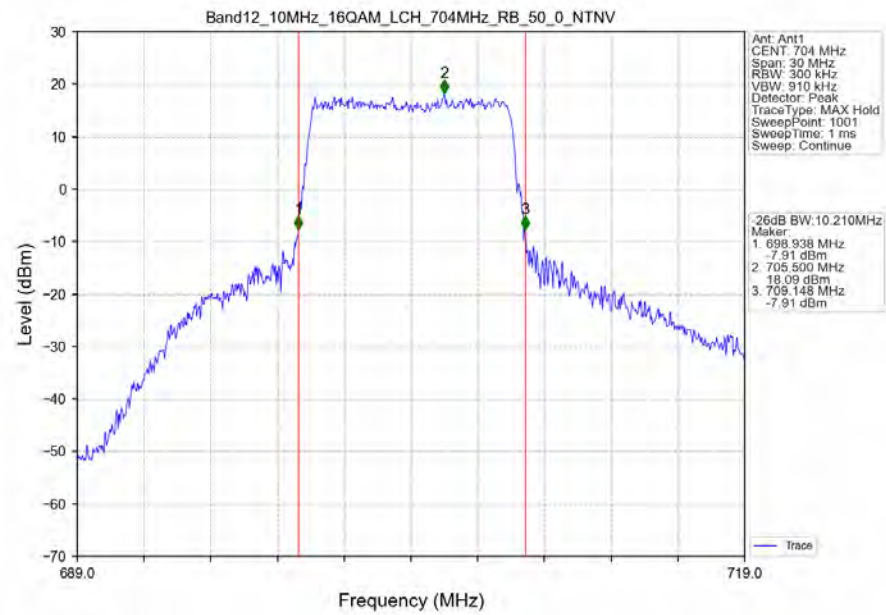
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



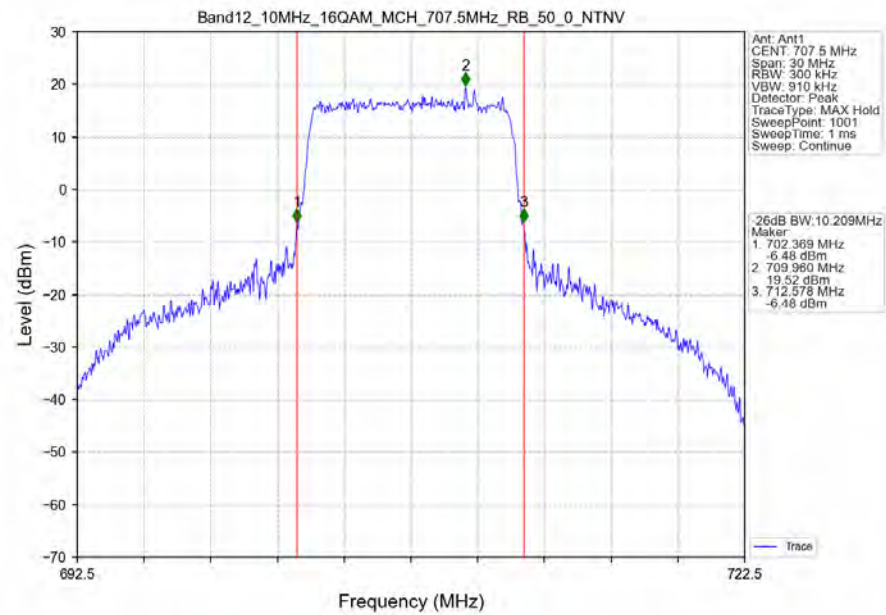
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



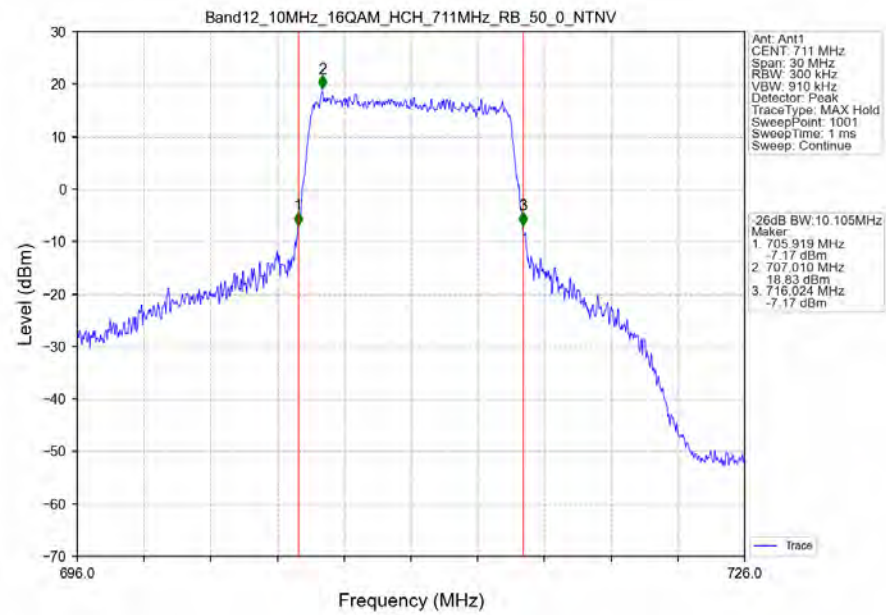
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



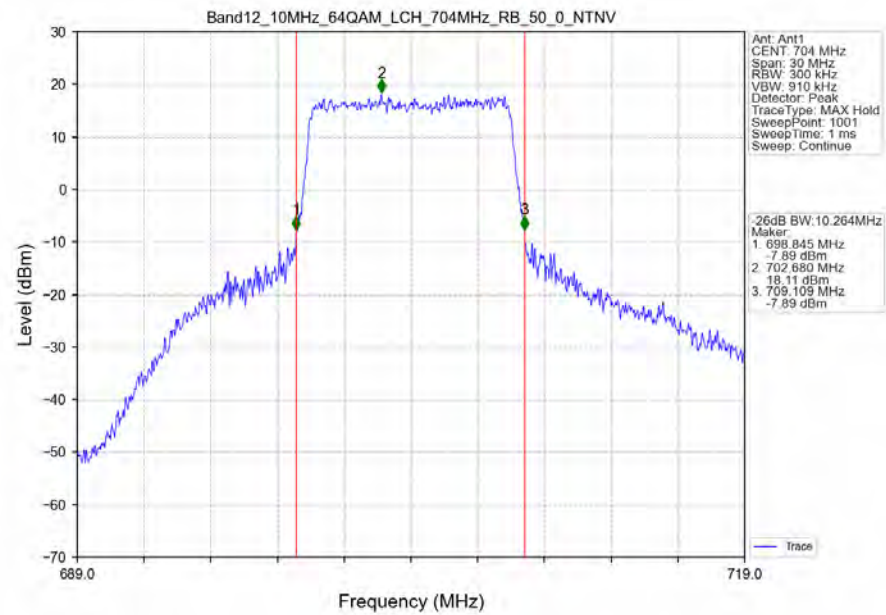
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



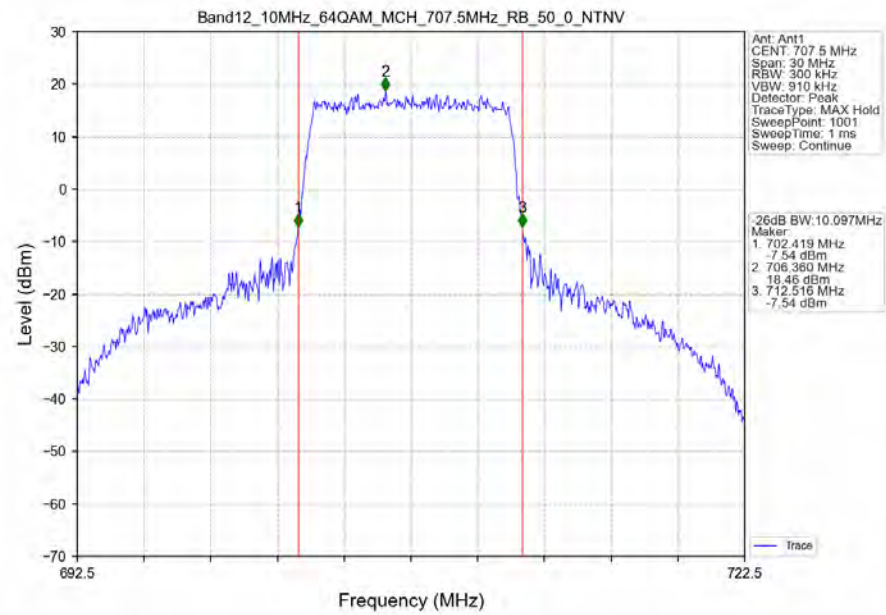
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



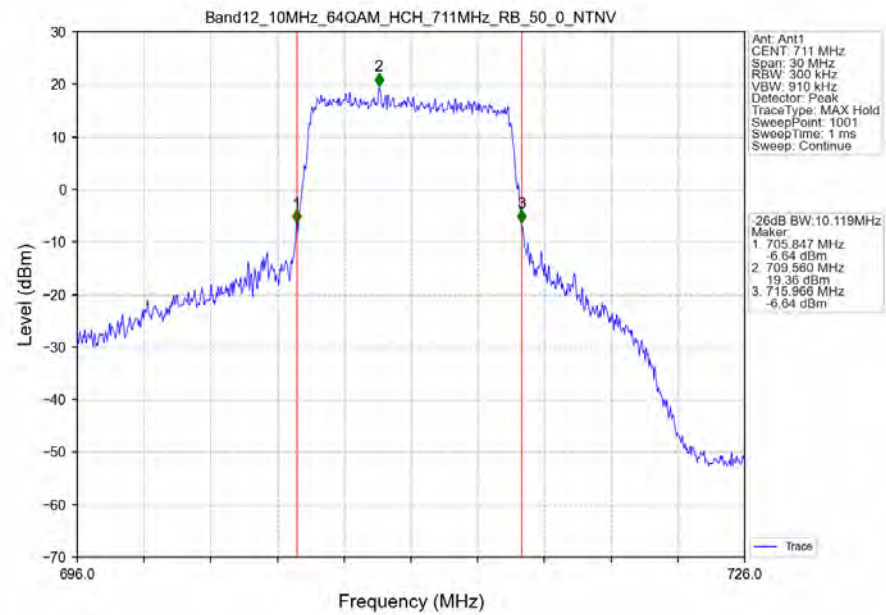
Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



4. Peak-Average Ratio

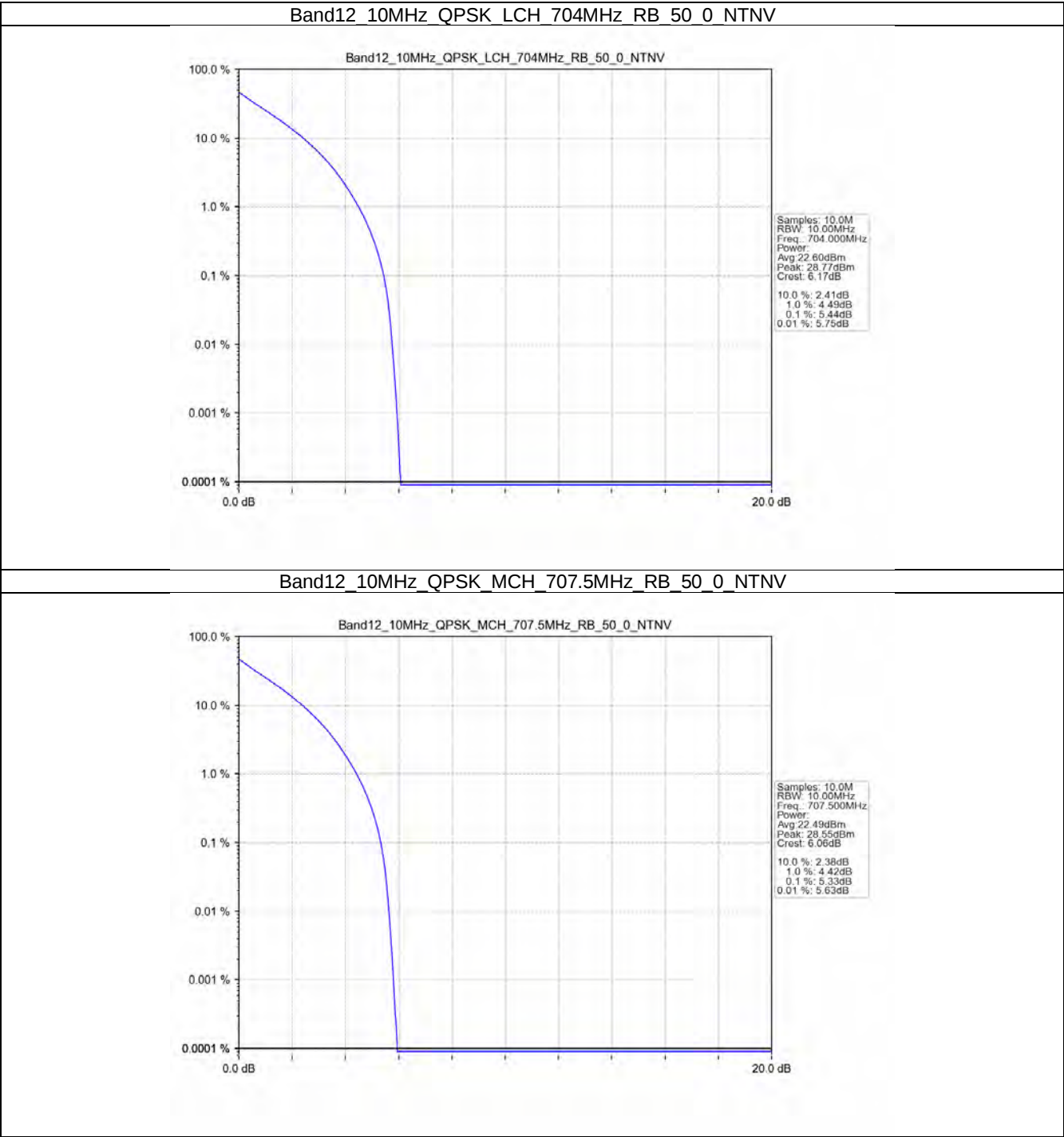
4.1 Test Result

4.1.1 B12_10MHz

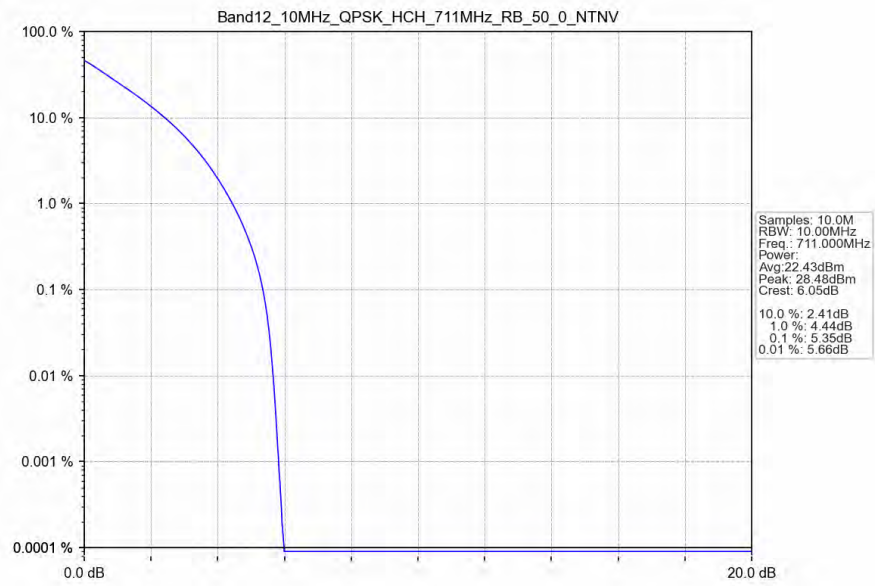
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.44	<=13	Pass
	707.5	50	0	5.33	<=13	Pass
	711	50	0	5.35	<=13	Pass
16QAM	704	50	0	6.19	<=13	Pass
	707.5	50	0	6.08	<=13	Pass
	711	50	0	6.08	<=13	Pass
64QAM	704	50	0	6.20	<=13	Pass
	707.5	50	0	6.09	<=13	Pass
	711	50	0	6.10	<=13	Pass

4.2 Test Graph

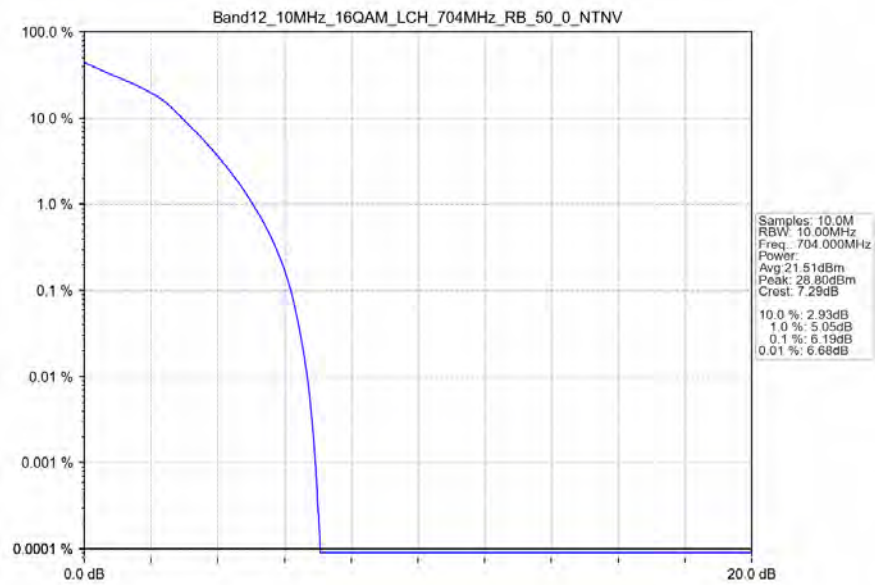
4.2.1 B12_10MHz



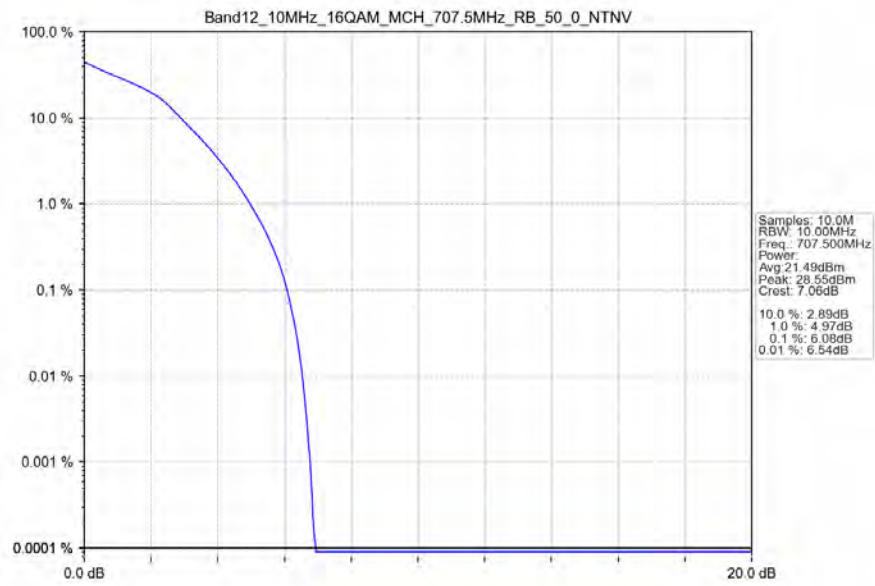
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



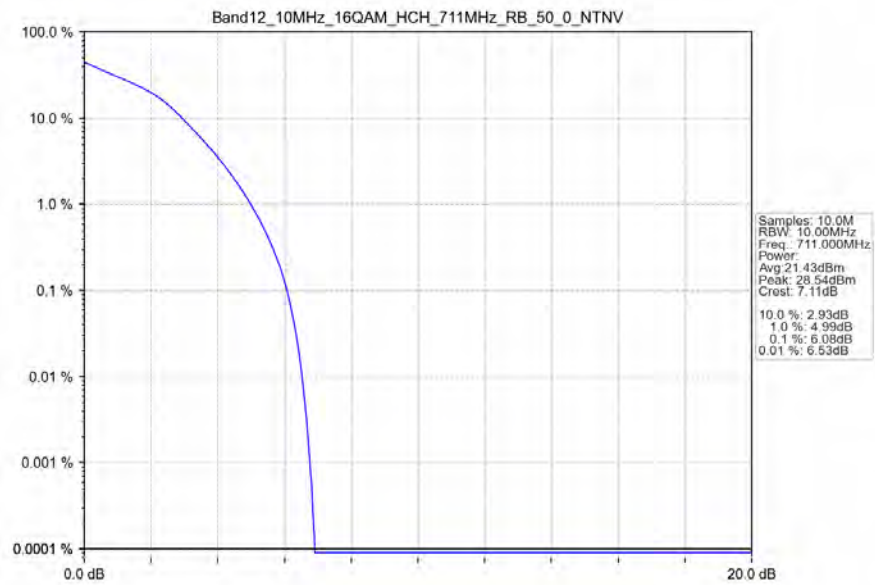
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



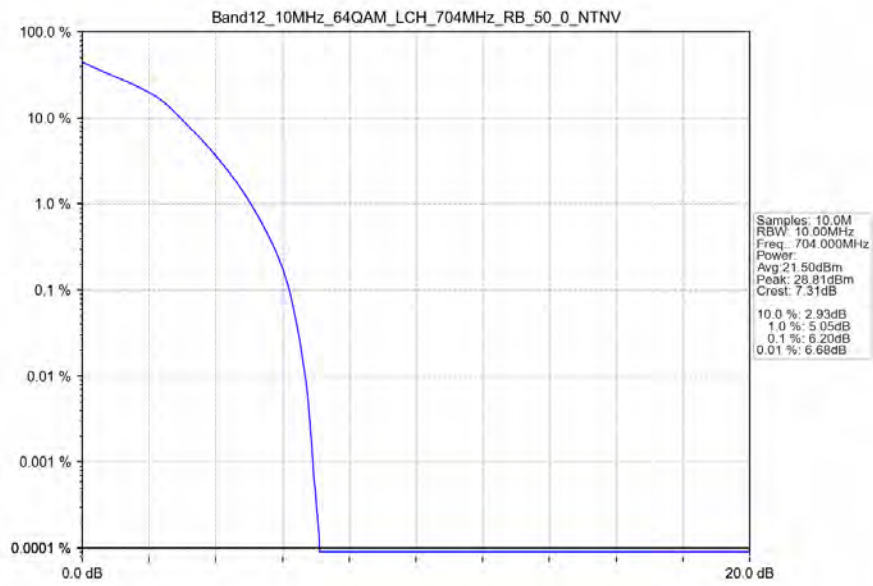
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



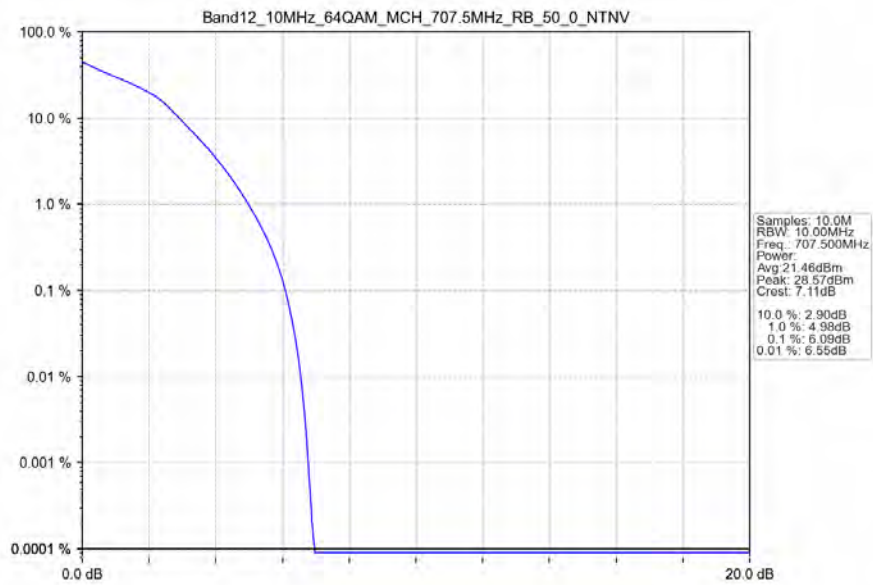
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



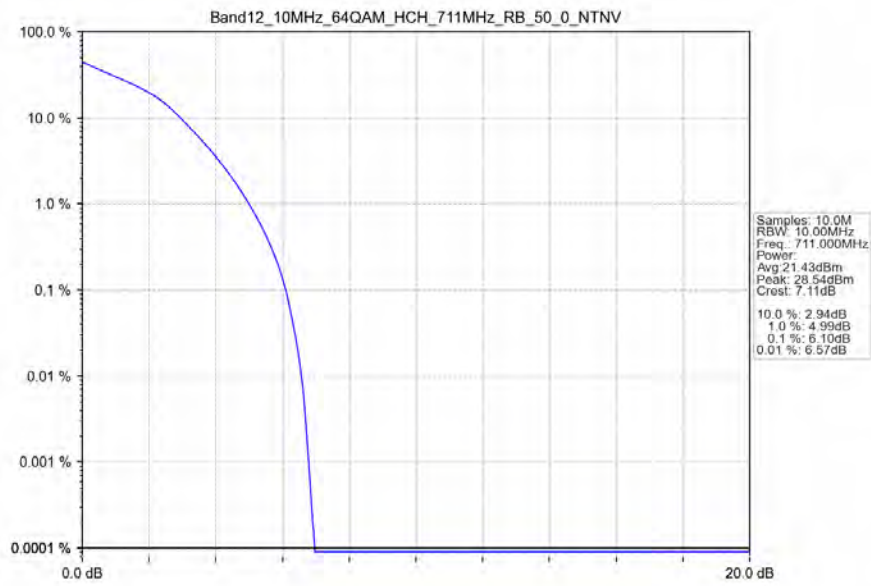
Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



5. Spurious Emission & Band Edges

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		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		Verdict
		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

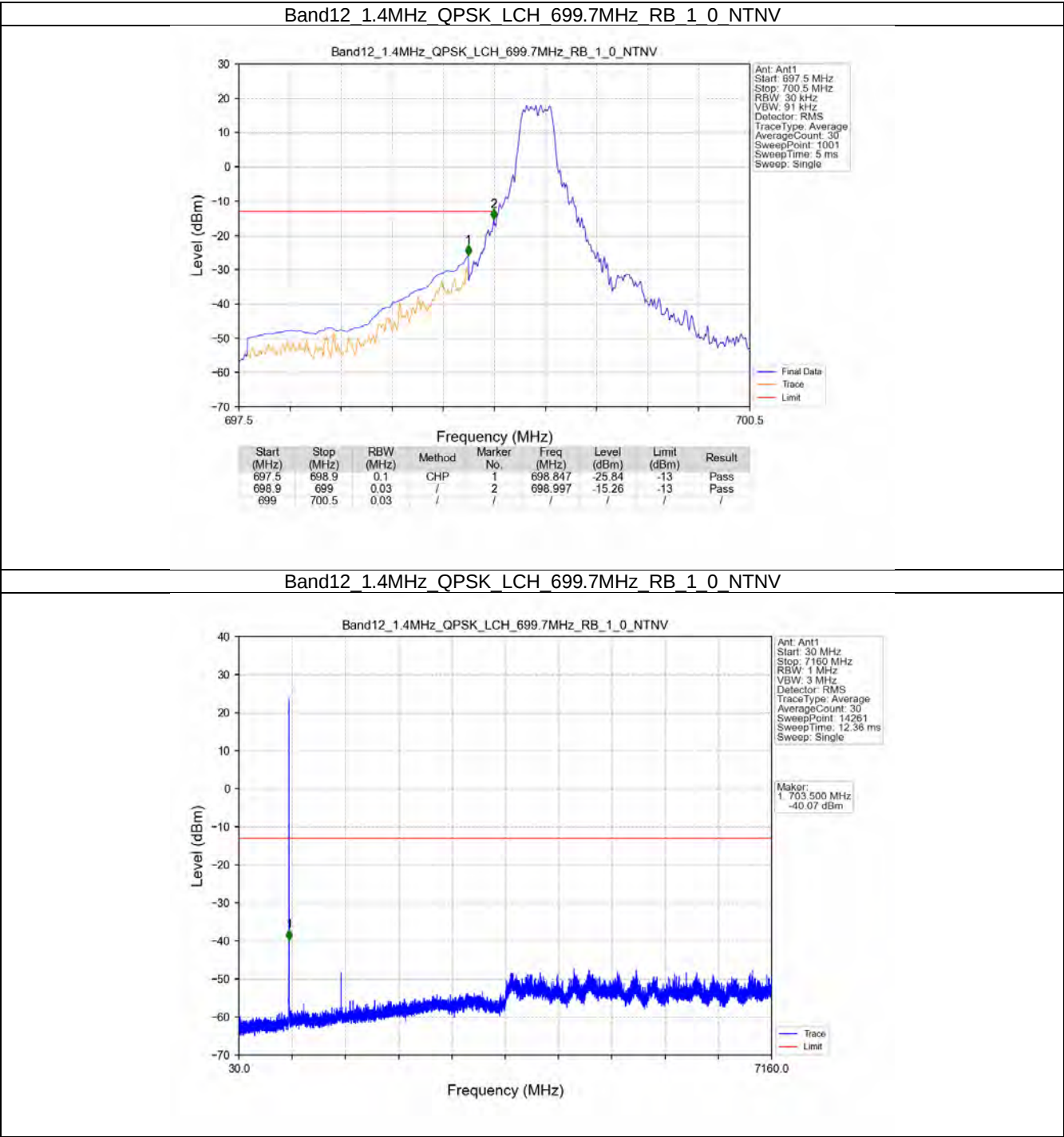
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.4 B12_10MHz

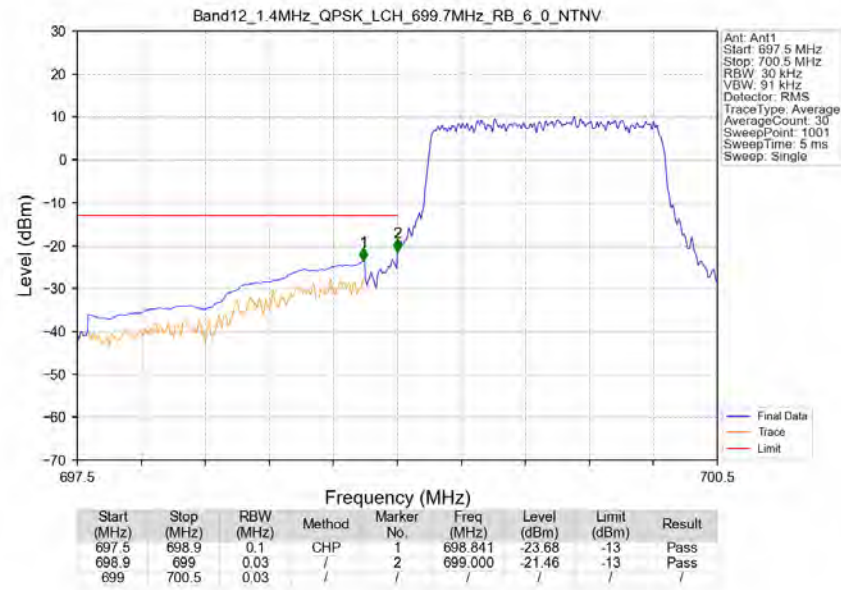
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

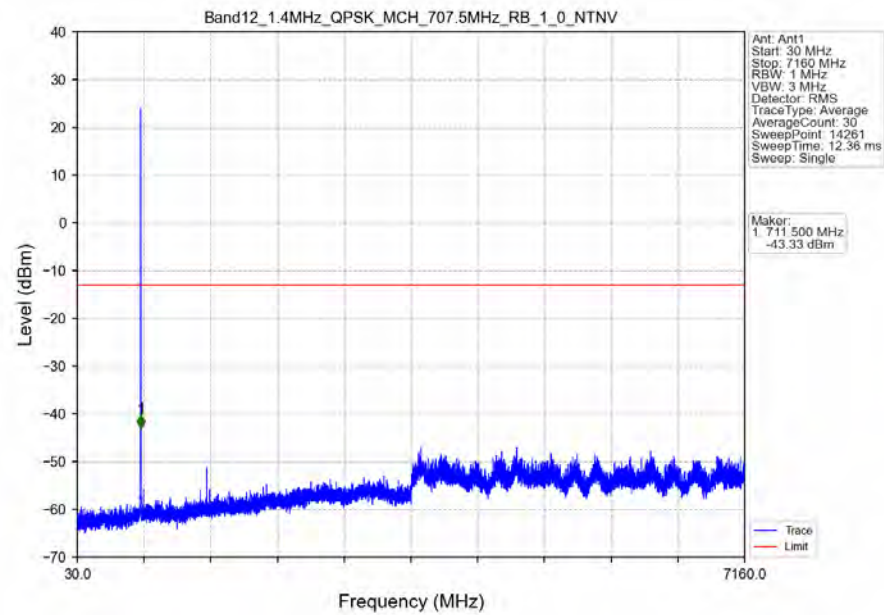
5.2.1 B12_1.4MHz



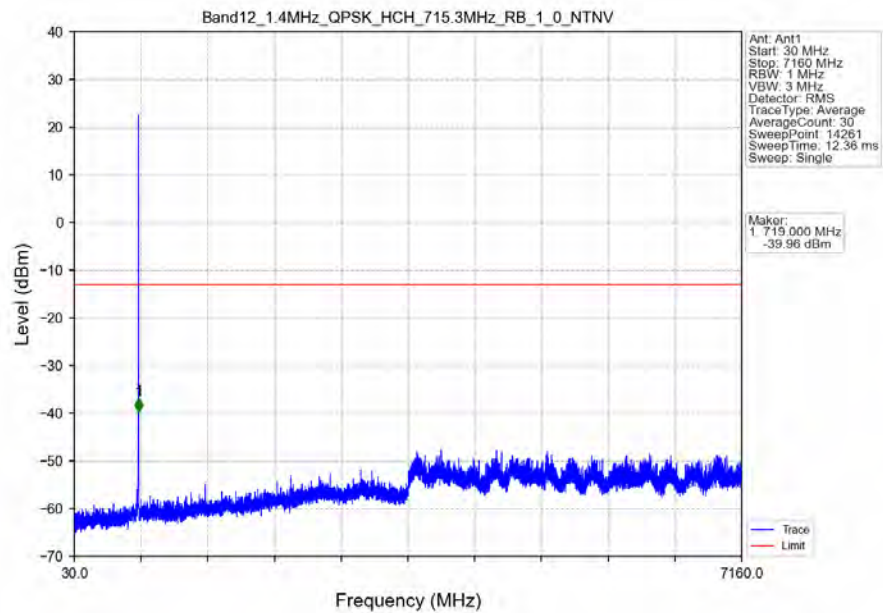
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



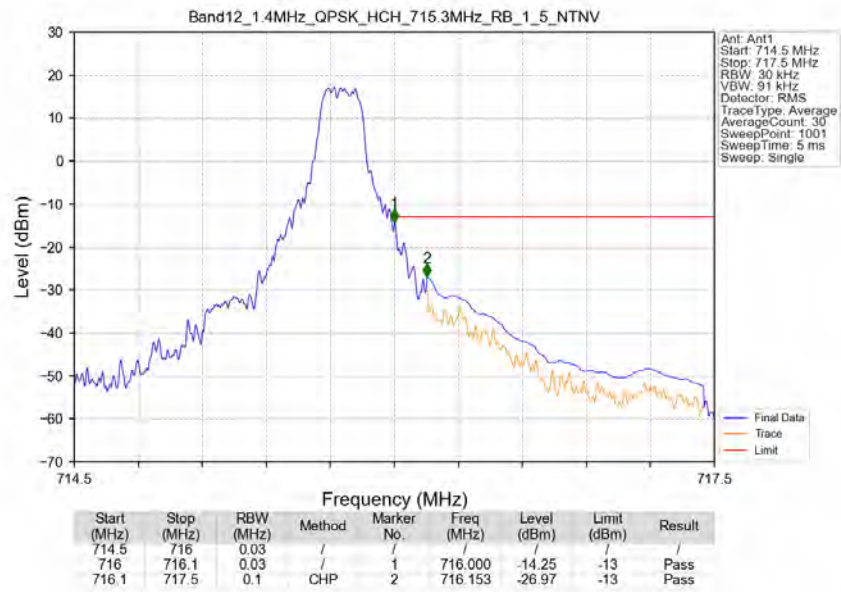
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



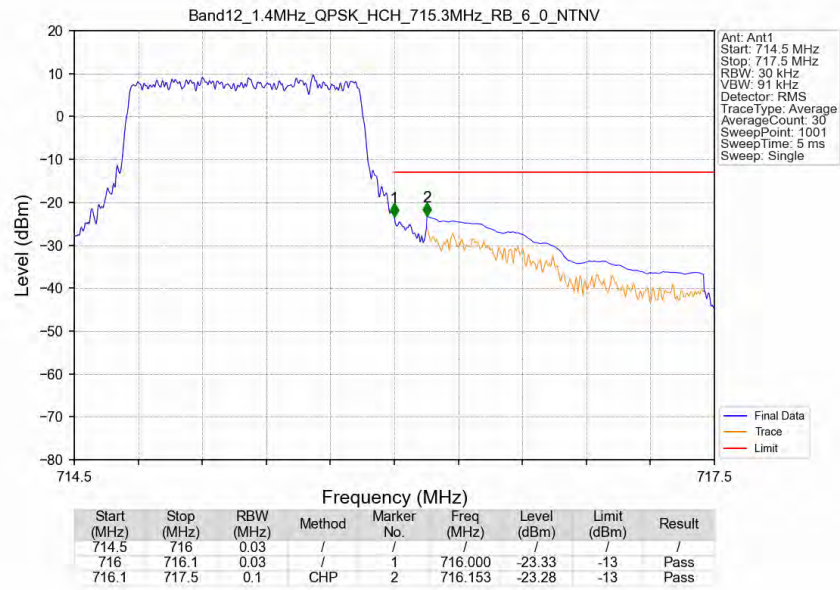
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV

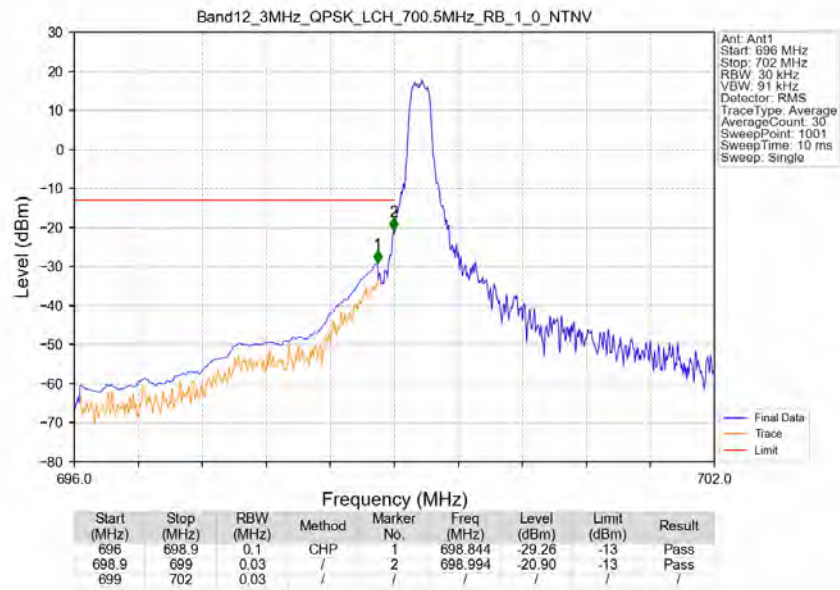


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

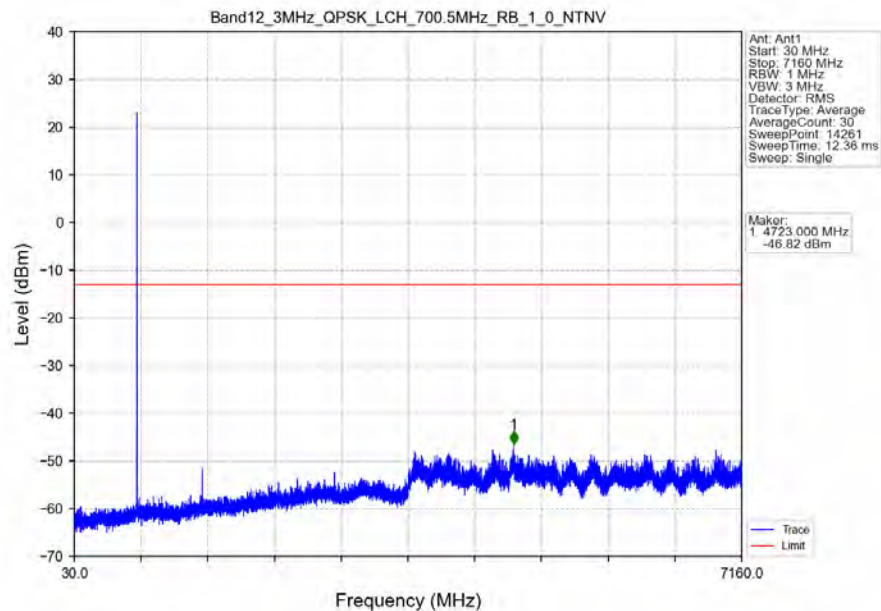


5.2.2 B12_3MHz

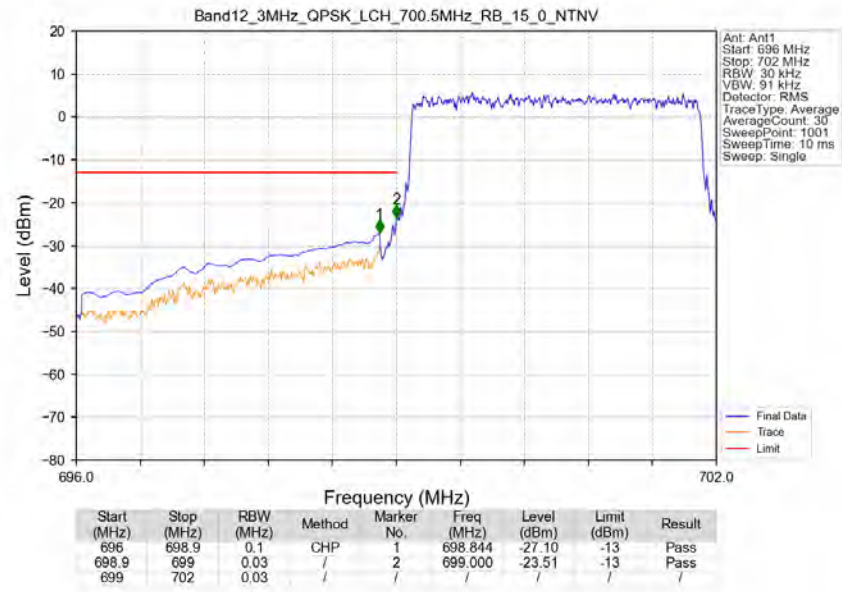
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



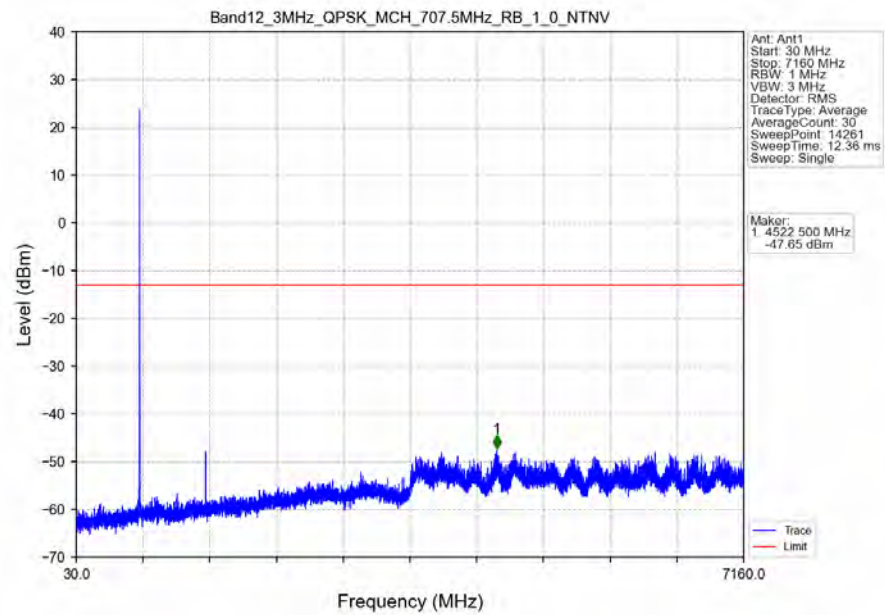
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



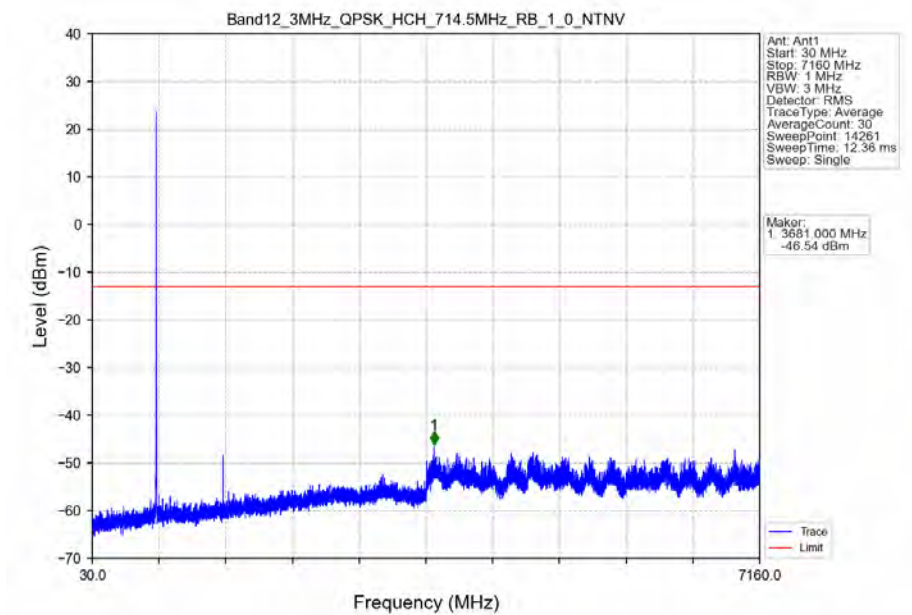
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



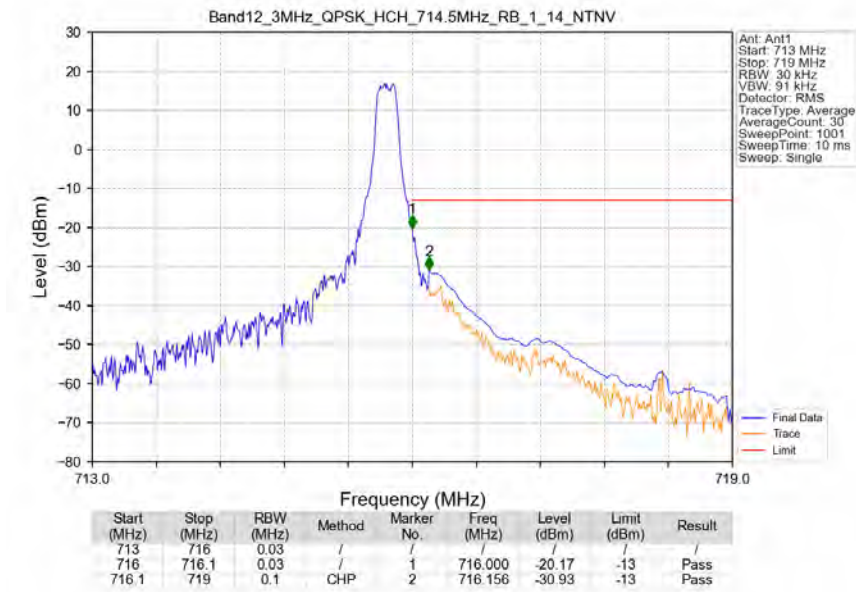
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



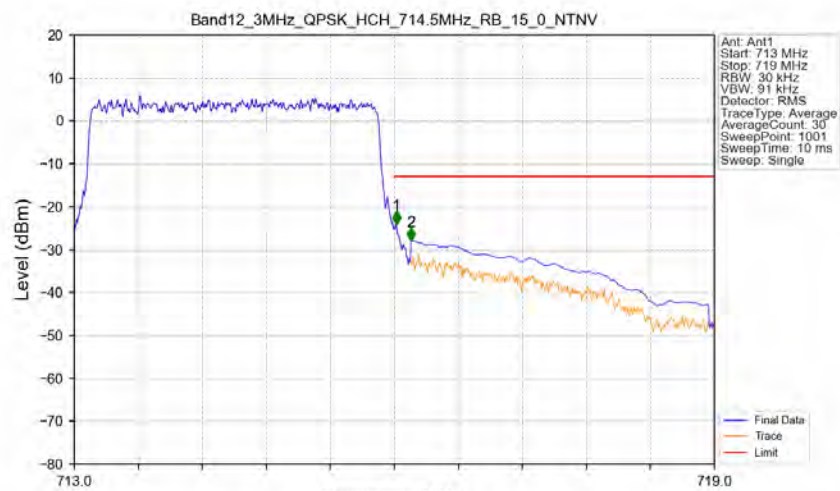
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



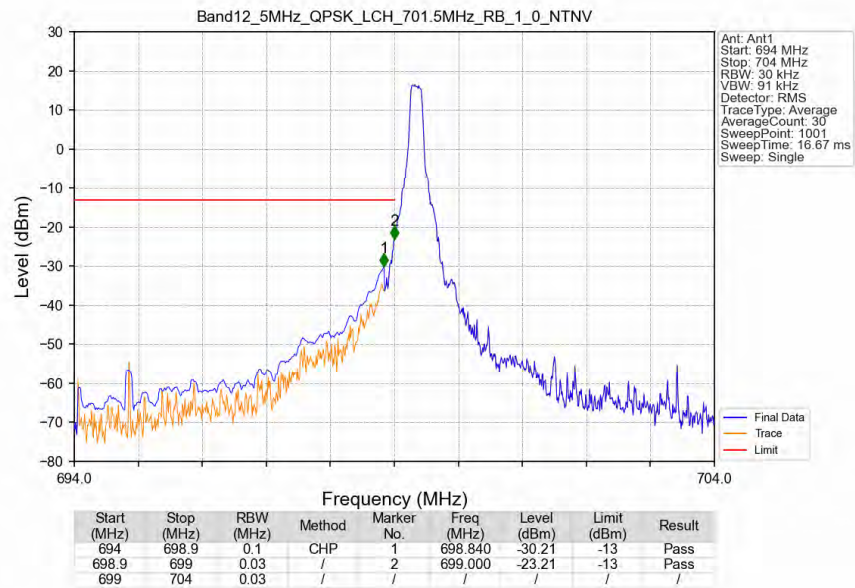
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



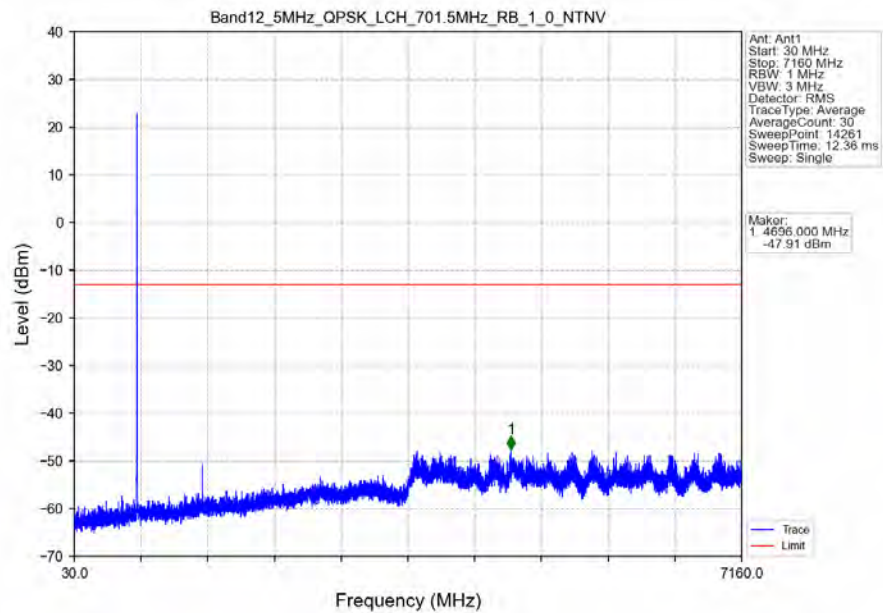
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.018	-24.04	-13	Pass
716.1	719	0.1	CHP	2	716.156	-27.96	-13	Pass

5.2.3 B12_5MHz

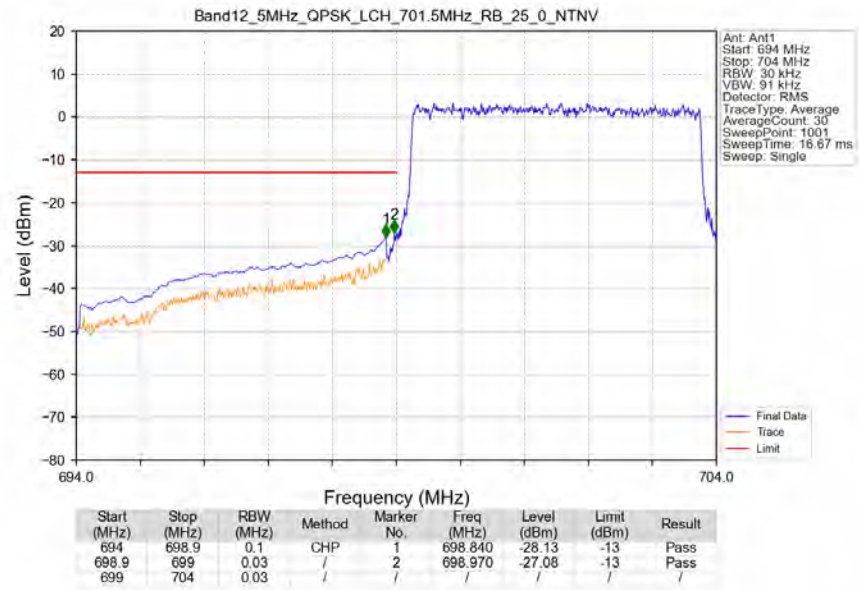
Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



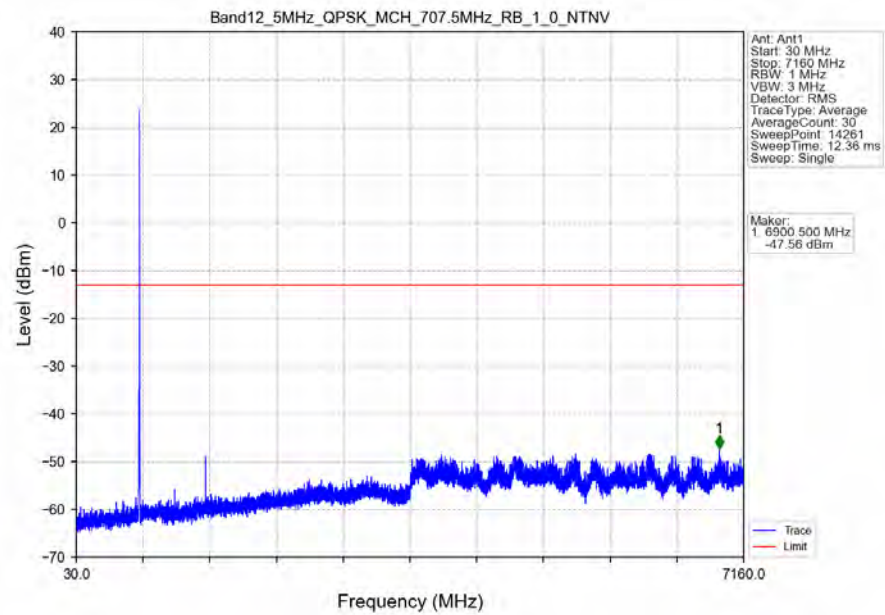
Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



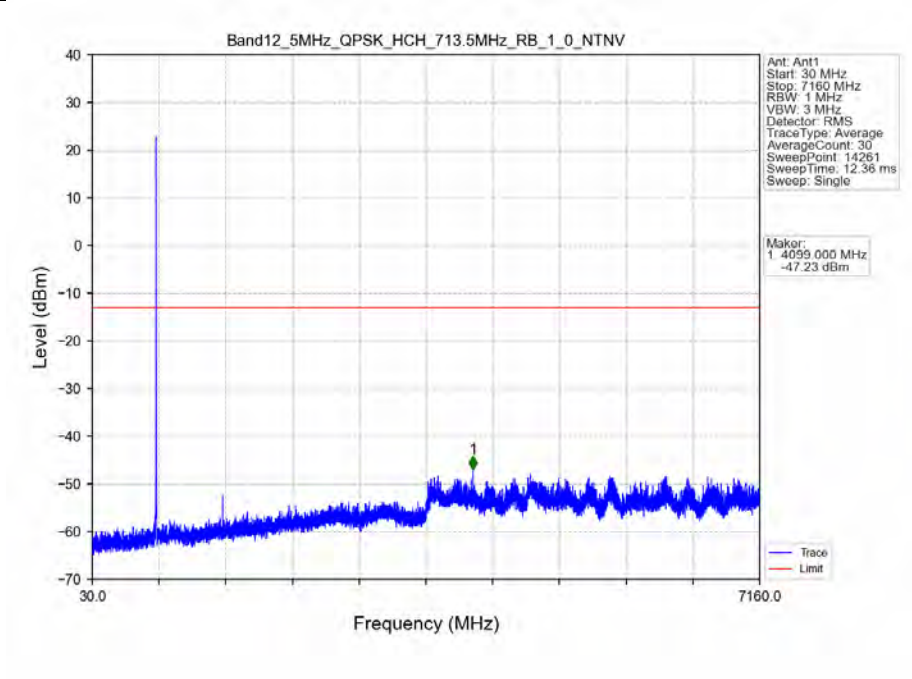
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



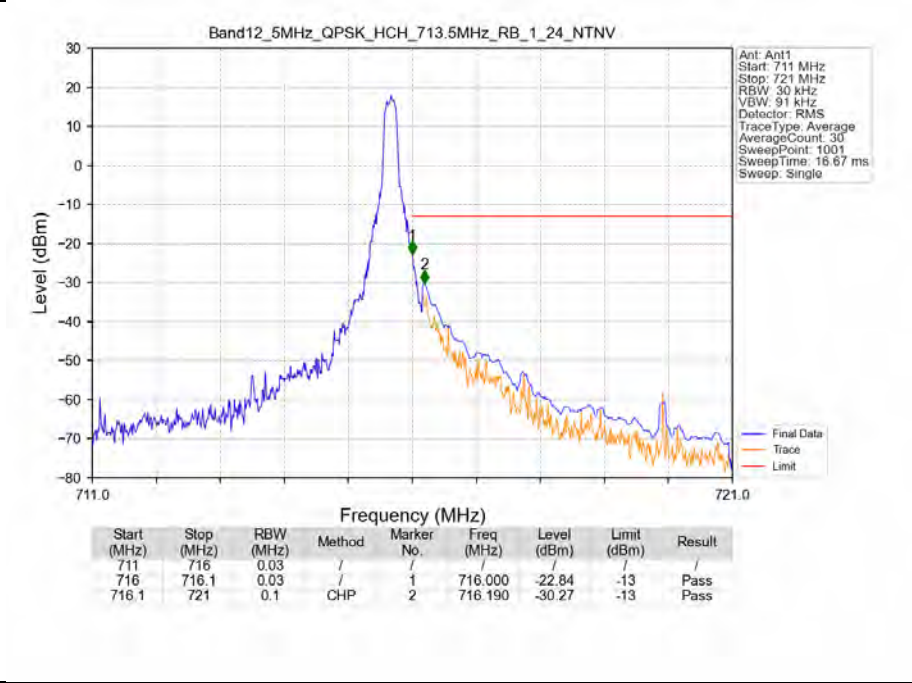
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



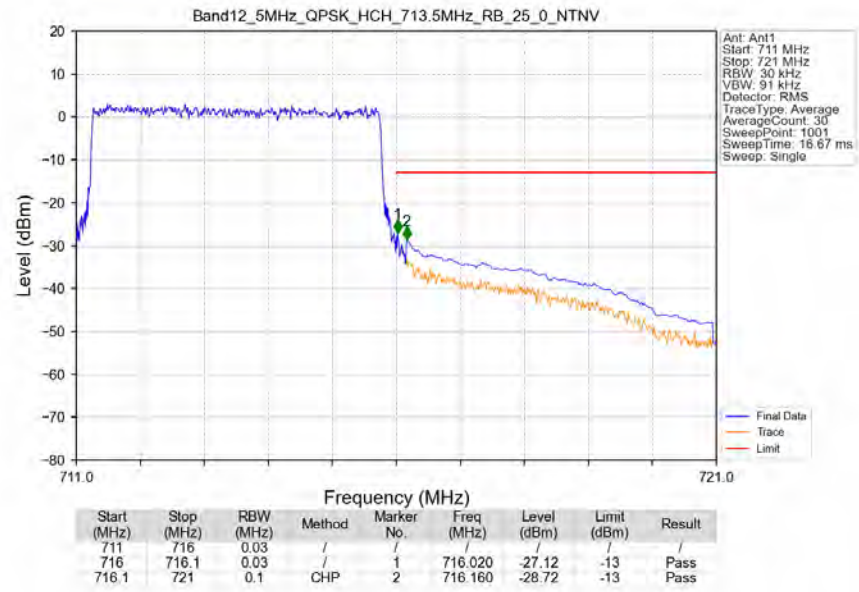
Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



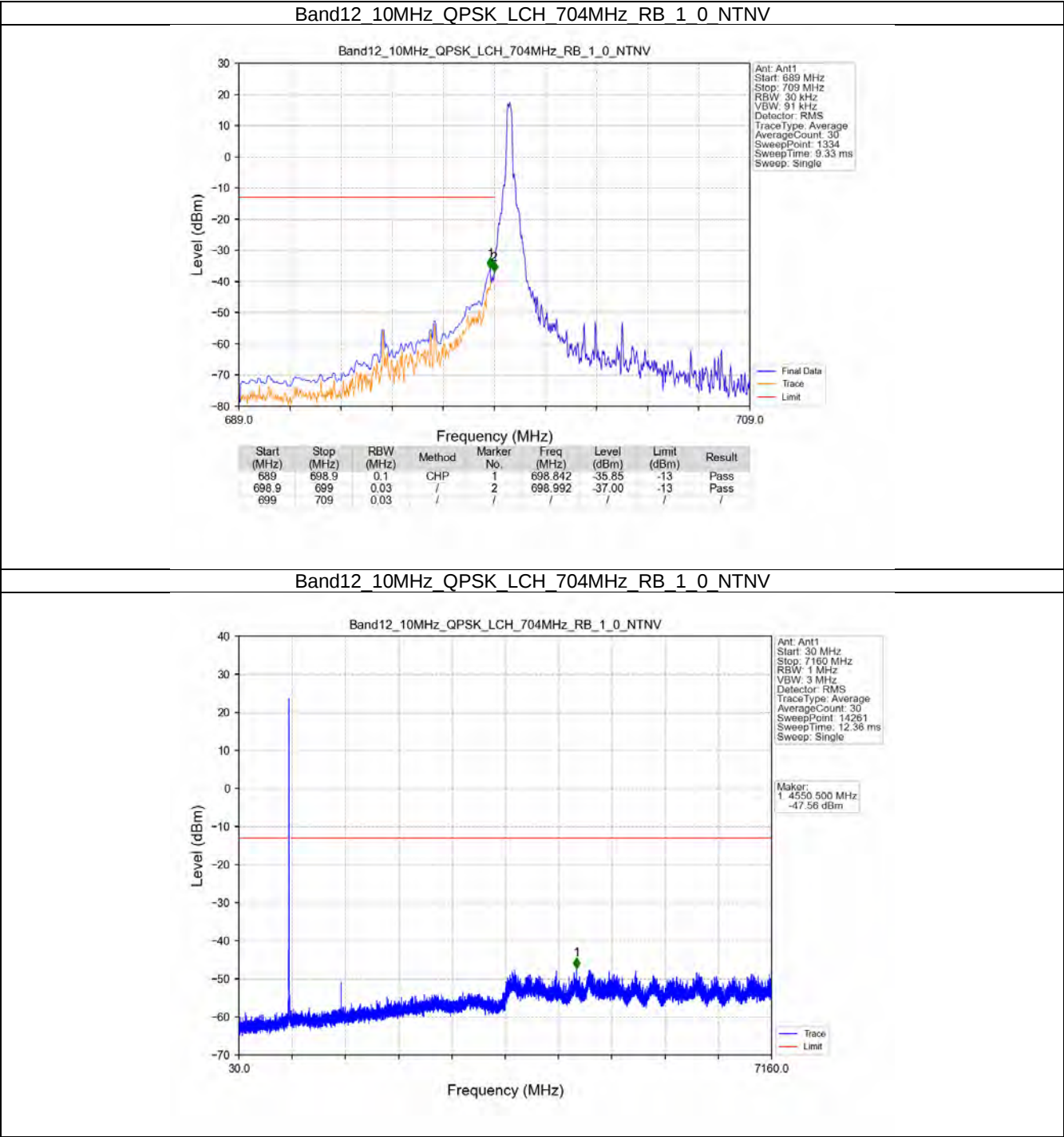
Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



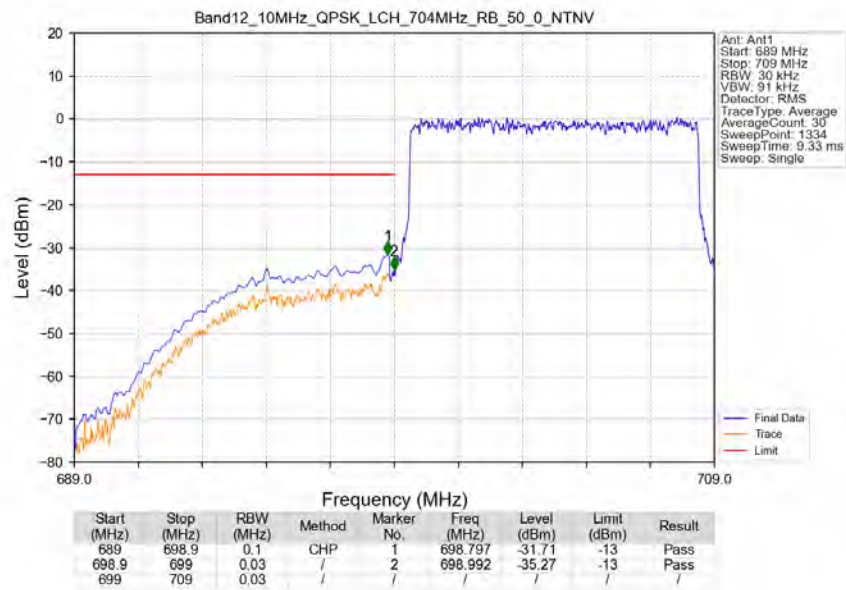
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



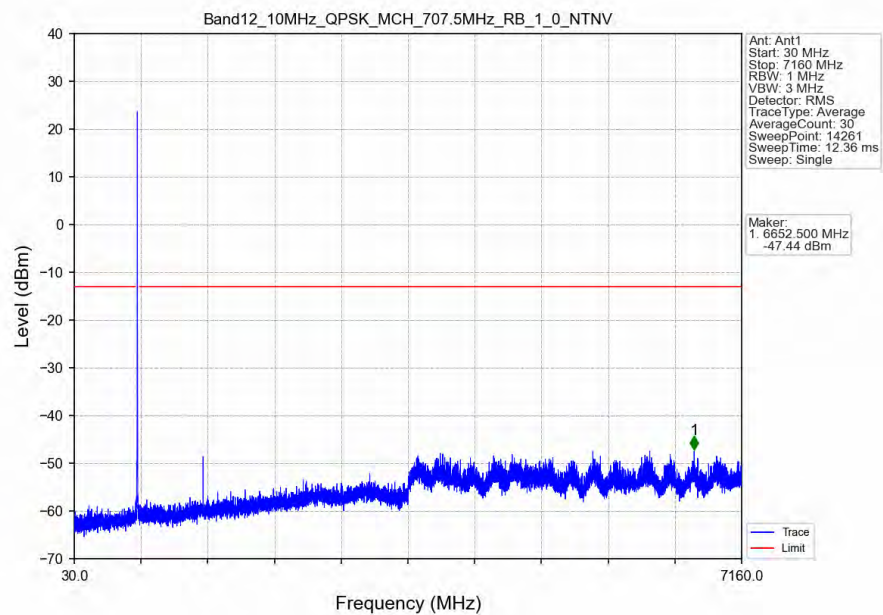
5.2.4 B12_10MHz



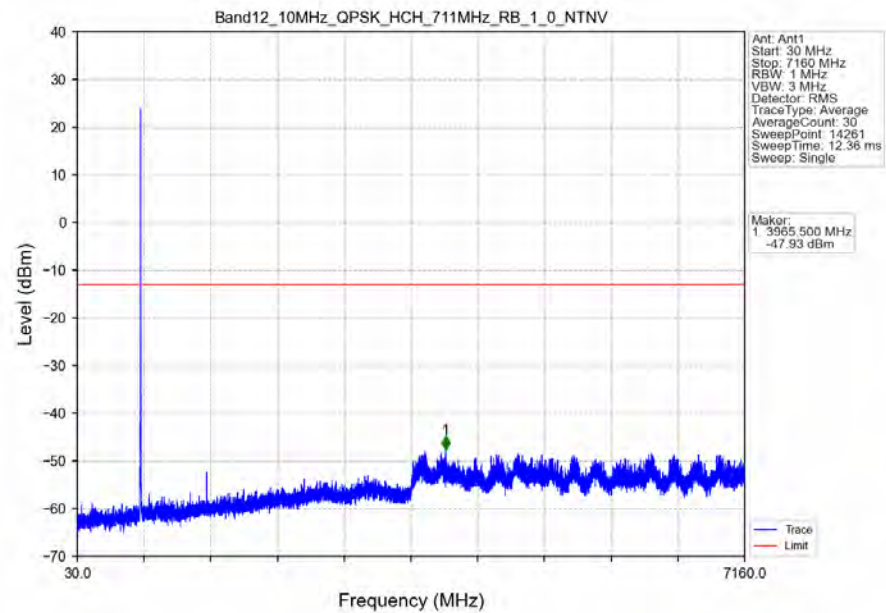
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



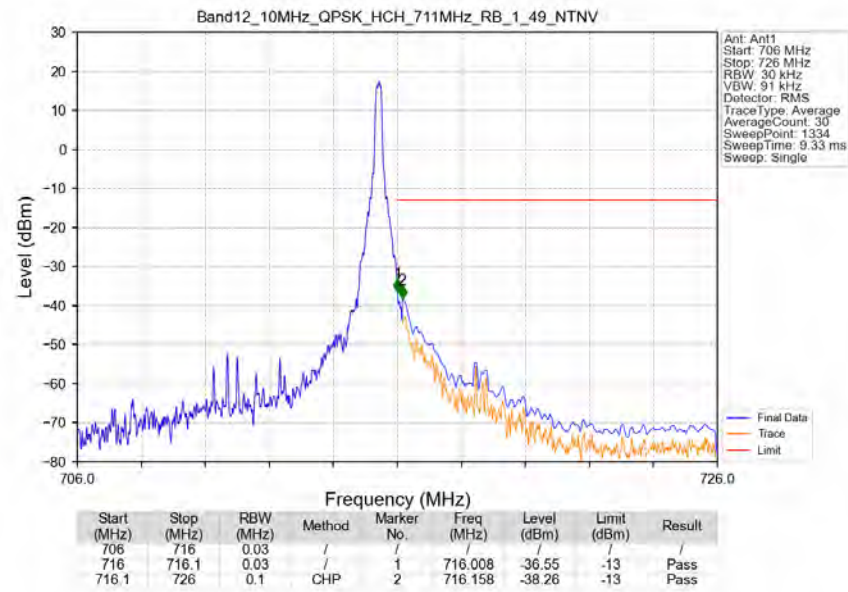
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



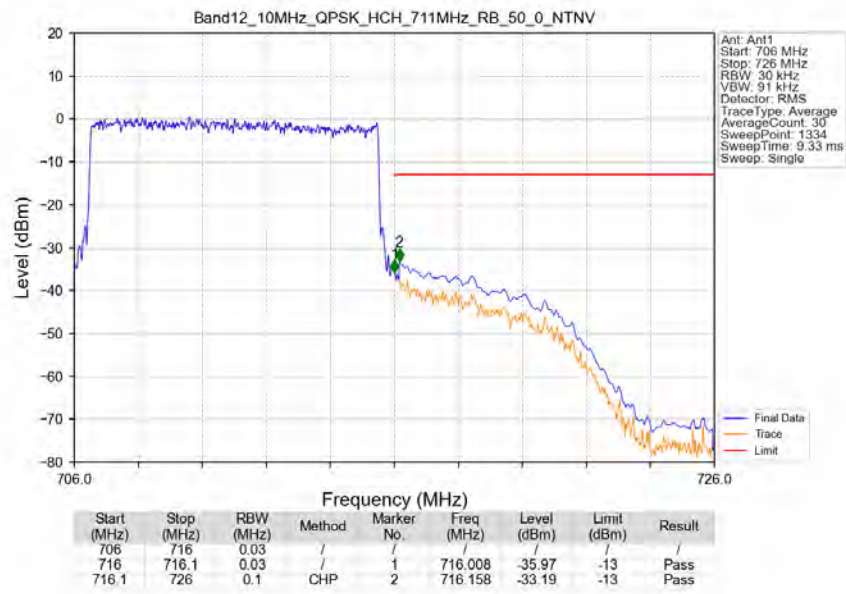
Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



6. Field Strength of Spurious Radiation

LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399.0	-44.62	-13	-31.62	-47.93	1.93	5.24	Horizontal	Pass
2098.5	-51.89	-13	-38.89	-54.34	2.41	4.86	Horizontal	Pass
2798.0	-55.1	-13	-42.1	-58.74	2.84	6.48	Horizontal	Pass
1399.0	-48.41	-13	-35.41	-51.72	1.93	5.24	Vertical	Pass
2098.5	-56.52	-13	-43.52	-58.97	2.41	4.86	Vertical	Pass
2798.0	-53.71	-13	-40.71	-57.35	2.84	6.48	Vertical	Pass

LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.0	-45.37	-13	-32.37	-48.72	1.93	5.28	Horizontal	Pass
2109.0	-53.94	-13	-40.94	-56.4	2.42	4.88	Horizontal	Pass
2812.0	-52.83	-13	-39.83	-56.49	2.85	6.51	Horizontal	Pass
1406.0	-50.36	-13	-37.36	-53.71	1.93	5.28	Vertical	Pass
2109.0	-57.8	-13	-44.8	-60.26	2.42	4.88	Vertical	Pass
2812.0	-52.84	-13	-39.84	-56.5	2.85	6.51	Vertical	Pass

LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-50.77	-13	-37.77	-54.16	1.94	5.33	Horizontal	Pass
2119.5	-53.77	-13	-40.77	-56.26	2.42	4.91	Horizontal	Pass
2826.0	-55.84	-13	-42.84	-59.52	2.86	6.54	Horizontal	Pass
1413.0	-49.67	-13	-36.67	-53.06	1.94	5.33	Vertical	Pass
2119.5	-57.83	-13	-44.83	-60.32	2.42	4.91	Vertical	Pass
2826.0	-52.88	-13	-39.88	-56.56	2.86	6.54	Vertical	Pass

---End of Attachment---