

Appendix - LTE band:17

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP

Band: 17 / Bandwidth: 5MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	706.5	1	0	22.62	-0.38	20.09	<=34.77	Pass
			13	22.72	-0.38	20.19	<=34.77	Pass
			24	22.81	-0.38	20.28	<=34.77	Pass
		12	0	21.80	-0.38	19.27	<=34.77	Pass
			6	21.71	-0.38	19.18	<=34.77	Pass
			13	21.83	-0.38	19.30	<=34.77	Pass
		25	0	21.82	-0.38	19.29	<=34.77	Pass
			0	22.71	-0.38	20.18	<=34.77	Pass
			13	22.66	-0.38	20.13	<=34.77	Pass
	710	1	24	22.80	-0.38	20.27	<=34.77	Pass
			0	21.80	-0.38	19.27	<=34.77	Pass
			6	21.79	-0.38	19.26	<=34.77	Pass
		12	13	21.84	-0.38	19.31	<=34.77	Pass
			0	21.77	-0.38	19.24	<=34.77	Pass
			0	22.90	-0.38	20.37	<=34.77	Pass
		25	13	22.80	-0.38	20.27	<=34.77	Pass
			24	22.89	-0.38	20.36	<=34.77	Pass
			0	21.88	-0.38	19.35	<=34.77	Pass
16QAM	706.5	1	6	21.97	-0.38	19.44	<=34.77	Pass
			13	22.00	-0.38	19.47	<=34.77	Pass
			0	21.91	-0.38	19.38	<=34.77	Pass
		12	0	21.98	-0.38	19.45	<=34.77	Pass
			13	21.98	-0.38	19.45	<=34.77	Pass
			24	22.11	-0.38	19.58	<=34.77	Pass
		25	0	20.73	-0.38	18.20	<=34.77	Pass
			6	20.64	-0.38	18.11	<=34.77	Pass
			13	20.79	-0.38	18.26	<=34.77	Pass
	710	1	0	20.73	-0.38	18.20	<=34.77	Pass
			0	21.52	-0.38	18.99	<=34.77	Pass
			13	21.54	-0.38	19.01	<=34.77	Pass
		12	24	21.64	-0.38	19.11	<=34.77	Pass
			0	20.83	-0.38	18.30	<=34.77	Pass
			6	20.82	-0.38	18.29	<=34.77	Pass
		25	13	20.91	-0.38	18.38	<=34.77	Pass
			0	20.90	-0.38	18.37	<=34.77	Pass
			0	22.52	-0.38	19.99	<=34.77	Pass
	713.5	1	13	22.48	-0.38	19.95	<=34.77	Pass
			24	22.57	-0.38	20.04	<=34.77	Pass
			0	20.90	-0.38	18.37	<=34.77	Pass
		12	6	20.97	-0.38	18.44	<=34.77	Pass
			13	21.00	-0.38	18.47	<=34.77	Pass
		25	0	20.95	-0.38	18.42	<=34.77	Pass
			0					
			0					
			0					

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	22.68	-0.38	20.15	<=34.77	Pass
			25	22.79	-0.38	20.26	<=34.77	Pass
			49	23.00	-0.38	20.47	<=34.77	Pass
		25	0	21.72	-0.38	19.19	<=34.77	Pass
			13	21.83	-0.38	19.30	<=34.77	Pass
			25	21.92	-0.38	19.39	<=34.77	Pass
		50	0	21.87	-0.38	19.34	<=34.77	Pass
	710	1	0	22.63	-0.38	20.10	<=34.77	Pass
			25	22.76	-0.38	20.23	<=34.77	Pass
			49	22.91	-0.38	20.38	<=34.77	Pass
		25	0	21.90	-0.38	19.37	<=34.77	Pass
			13	21.81	-0.38	19.28	<=34.77	Pass
			25	21.98	-0.38	19.45	<=34.77	Pass
		50	0	21.87	-0.38	19.34	<=34.77	Pass
	711	1	0	22.69	-0.38	20.16	<=34.77	Pass
			25	22.70	-0.38	20.17	<=34.77	Pass
			49	22.97	-0.38	20.44	<=34.77	Pass
		25	0	21.82	-0.38	19.29	<=34.77	Pass
			13	21.93	-0.38	19.40	<=34.77	Pass
			25	21.97	-0.38	19.44	<=34.77	Pass
		50	0	21.76	-0.38	19.23	<=34.77	Pass
16QAM	709	1	0	21.71	-0.38	19.18	<=34.77	Pass
			25	21.85	-0.38	19.32	<=34.77	Pass
			49	21.98	-0.38	19.45	<=34.77	Pass
		25	0	21.01	-0.38	18.48	<=34.77	Pass
			13	21.04	-0.38	18.51	<=34.77	Pass
			25	21.07	-0.38	18.54	<=34.77	Pass
		50	0	20.93	-0.38	18.40	<=34.77	Pass
	710	1	0	23.06	-0.38	20.53	<=34.77	Pass
			25	23.13	-0.38	20.60	<=34.77	Pass
			49	23.28	-0.38	20.75	<=34.77	Pass
		25	0	20.96	-0.38	18.43	<=34.77	Pass
			13	20.96	-0.38	18.43	<=34.77	Pass
			25	21.01	-0.38	18.48	<=34.77	Pass
		50	0	20.89	-0.38	18.36	<=34.77	Pass
	711	1	0	22.63	-0.38	20.10	<=34.77	Pass
			25	22.77	-0.38	20.24	<=34.77	Pass
			49	22.92	-0.38	20.39	<=34.77	Pass
		25	0	20.89	-0.38	18.36	<=34.77	Pass
			13	20.93	-0.38	18.40	<=34.77	Pass
			25	21.01	-0.38	18.48	<=34.77	Pass
		50	0	20.95	-0.38	18.42	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B17_5MHz

Band: 17 / Bandwidth: 5MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	706.5	25	0	20	3.27	-1.574	-0.0022	-2.5 to 2.5	Pass
					3.85	-33.917	-0.0480	-2.5 to 2.5	Pass
					4.43	-43.187	-0.0611	-2.5 to 2.5	Pass
				-30	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-7.153	-0.0101	-2.5 to 2.5	Pass
				0	3.85	-9.141	-0.0129	-2.5 to 2.5	Pass
				10	3.85	-10.629	-0.0150	-2.5 to 2.5	Pass
				30	3.85	-10.099	-0.0143	-2.5 to 2.5	Pass
				40	3.85	-11.201	-0.0159	-2.5 to 2.5	Pass
				50	3.85	-12.560	-0.0178	-2.5 to 2.5	Pass
	710	25	0	20	3.27	18.539	0.0261	-2.5 to 2.5	Pass
					3.85	-5.407	-0.0076	-2.5 to 2.5	Pass
					4.43	-6.366	-0.0090	-2.5 to 2.5	Pass
				-30	3.85	-6.680	-0.0094	-2.5 to 2.5	Pass
				-20	3.85	-7.310	-0.0103	-2.5 to 2.5	Pass
				-10	3.85	-8.597	-0.0121	-2.5 to 2.5	Pass
				0	3.85	-6.380	-0.0090	-2.5 to 2.5	Pass
				10	3.85	-6.967	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-7.396	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-7.668	-0.0108	-2.5 to 2.5	Pass
				50	3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	13.919	0.0195	-2.5 to 2.5	Pass
					3.85	-9.513	-0.0133	-2.5 to 2.5	Pass
					4.43	-8.197	-0.0115	-2.5 to 2.5	Pass
				-30	3.85	-5.980	-0.0084	-2.5 to 2.5	Pass
				-20	3.85	-5.894	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-4.520	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				40	3.85	2.332	0.0033	-2.5 to 2.5	Pass
50	3.85	2.289	0.0032	-2.5 to 2.5	Pass				
16QAM	706.5	25	0	20	3.27	-12.245	-0.0173	-2.5 to 2.5	Pass
					3.85	-9.341	-0.0132	-2.5 to 2.5	Pass
					4.43	-10.200	-0.0144	-2.5 to 2.5	Pass
				-30	3.85	-8.168	-0.0116	-2.5 to 2.5	Pass
				-20	3.85	-8.712	-0.0123	-2.5 to 2.5	Pass
				-10	3.85	-8.540	-0.0121	-2.5 to 2.5	Pass
				0	3.85	-8.354	-0.0118	-2.5 to 2.5	Pass
				10	3.85	-8.912	-0.0126	-2.5 to 2.5	Pass
				30	3.85	-8.783	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-9.255	-0.0131	-2.5 to 2.5	Pass
				50	3.85	-8.969	-0.0127	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-4.764	-0.0067	-2.5 to 2.5	Pass
					3.85	-1.817	-0.0026	-2.5 to 2.5	Pass
					4.43	-2.275	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-3.033	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-2.975	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-2.604	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-3.161	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-3.219	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-4.134	-0.0058	-2.5 to 2.5	Pass
				40	3.85	-4.206	-0.0059	-2.5 to 2.5	Pass
				50	3.85	-3.519	-0.0050	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	3.691	0.0052	-2.5 to 2.5	Pass
					3.85	7.310	0.0102	-2.5 to 2.5	Pass
					4.43	5.665	0.0079	-2.5 to 2.5	Pass
				-30	3.85	5.250	0.0074	-2.5 to 2.5	Pass

				-20	3.85	4.735	0.0066	-2.5 to 2.5	Pass
				-10	3.85	3.147	0.0044	-2.5 to 2.5	Pass
				0	3.85	3.762	0.0053	-2.5 to 2.5	Pass
				10	3.85	2.718	0.0038	-2.5 to 2.5	Pass
				30	3.85	3.405	0.0048	-2.5 to 2.5	Pass
				40	3.85	3.862	0.0054	-2.5 to 2.5	Pass
				50	3.85	2.732	0.0038	-2.5 to 2.5	Pass

2.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	3.27	-1.259	-0.0018	-2.5 to 2.5	Pass
					3.85	-29.340	-0.0414	-2.5 to 2.5	Pass
					4.43	-17.309	-0.0244	-2.5 to 2.5	Pass
				-30	3.85	-26.464	-0.0373	-2.5 to 2.5	Pass
				-20	3.85	-32.215	-0.0454	-2.5 to 2.5	Pass
				-10	3.85	-37.179	-0.0524	-2.5 to 2.5	Pass
				0	3.85	-40.140	-0.0566	-2.5 to 2.5	Pass
				10	3.85	-42.586	-0.0601	-2.5 to 2.5	Pass
				30	3.85	-43.802	-0.0618	-2.5 to 2.5	Pass
				40	3.85	-44.560	-0.0628	-2.5 to 2.5	Pass
				50	3.85	-45.333	-0.0639	-2.5 to 2.5	Pass
	710	50	0	20	3.27	13.862	0.0195	-2.5 to 2.5	Pass
					3.85	-9.441	-0.0133	-2.5 to 2.5	Pass
					4.43	-8.626	-0.0121	-2.5 to 2.5	Pass
				-30	3.85	-9.670	-0.0136	-2.5 to 2.5	Pass
				-20	3.85	-7.439	-0.0105	-2.5 to 2.5	Pass
				-10	3.85	-7.939	-0.0112	-2.5 to 2.5	Pass
				0	3.85	-8.469	-0.0119	-2.5 to 2.5	Pass
				10	3.85	-7.882	-0.0111	-2.5 to 2.5	Pass
				30	3.85	-7.896	-0.0111	-2.5 to 2.5	Pass
				40	3.85	-7.010	-0.0099	-2.5 to 2.5	Pass
				50	3.85	-7.052	-0.0099	-2.5 to 2.5	Pass
	711	50	0	20	3.27	14.520	0.0204	-2.5 to 2.5	Pass
					3.85	-6.909	-0.0097	-2.5 to 2.5	Pass
					4.43	-5.693	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-4.549	-0.0064	-2.5 to 2.5	Pass
				-20	3.85	-3.948	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-2.303	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-1.101	-0.0015	-2.5 to 2.5	Pass
				30	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.27	-46.091	-0.0650	-2.5 to 2.5	Pass
					3.85	-41.971	-0.0592	-2.5 to 2.5	Pass
					4.43	-42.386	-0.0598	-2.5 to 2.5	Pass
				-30	3.85	-43.101	-0.0608	-2.5 to 2.5	Pass
				-20	3.85	-41.099	-0.0580	-2.5 to 2.5	Pass
				-10	3.85	-43.645	-0.0616	-2.5 to 2.5	Pass
				0	3.85	-41.685	-0.0588	-2.5 to 2.5	Pass
				10	3.85	-41.485	-0.0585	-2.5 to 2.5	Pass
				30	3.85	-40.841	-0.0576	-2.5 to 2.5	Pass
				40	3.85	-42.315	-0.0597	-2.5 to 2.5	Pass
				50	3.85	-42.028	-0.0593	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-5.665	-0.0080	-2.5 to 2.5	Pass
					3.85	-4.849	-0.0068	-2.5 to 2.5	Pass
					4.43	-3.648	-0.0051	-2.5 to 2.5	Pass

				-30	3.85	-3.734	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-4.349	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-5.035	-0.0071	-2.5 to 2.5	Pass
				0	3.85	-5.121	-0.0072	-2.5 to 2.5	Pass
				10	3.85	-6.123	-0.0086	-2.5 to 2.5	Pass
				30	3.85	-5.965	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-5.722	-0.0081	-2.5 to 2.5	Pass
				50	3.85	-6.223	-0.0088	-2.5 to 2.5	Pass
	711	50	0	20	3.27	2.031	0.0029	-2.5 to 2.5	Pass
					3.85	4.292	0.0060	-2.5 to 2.5	Pass
					4.43	3.719	0.0052	-2.5 to 2.5	Pass
				-30	3.85	3.848	0.0054	-2.5 to 2.5	Pass
				-20	3.85	2.303	0.0032	-2.5 to 2.5	Pass
				-10	3.85	2.346	0.0033	-2.5 to 2.5	Pass
				0	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				10	3.85	1.888	0.0027	-2.5 to 2.5	Pass
				30	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				40	3.85	0.401	0.0006	-2.5 to 2.5	Pass
				50	3.85	0.386	0.0005	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

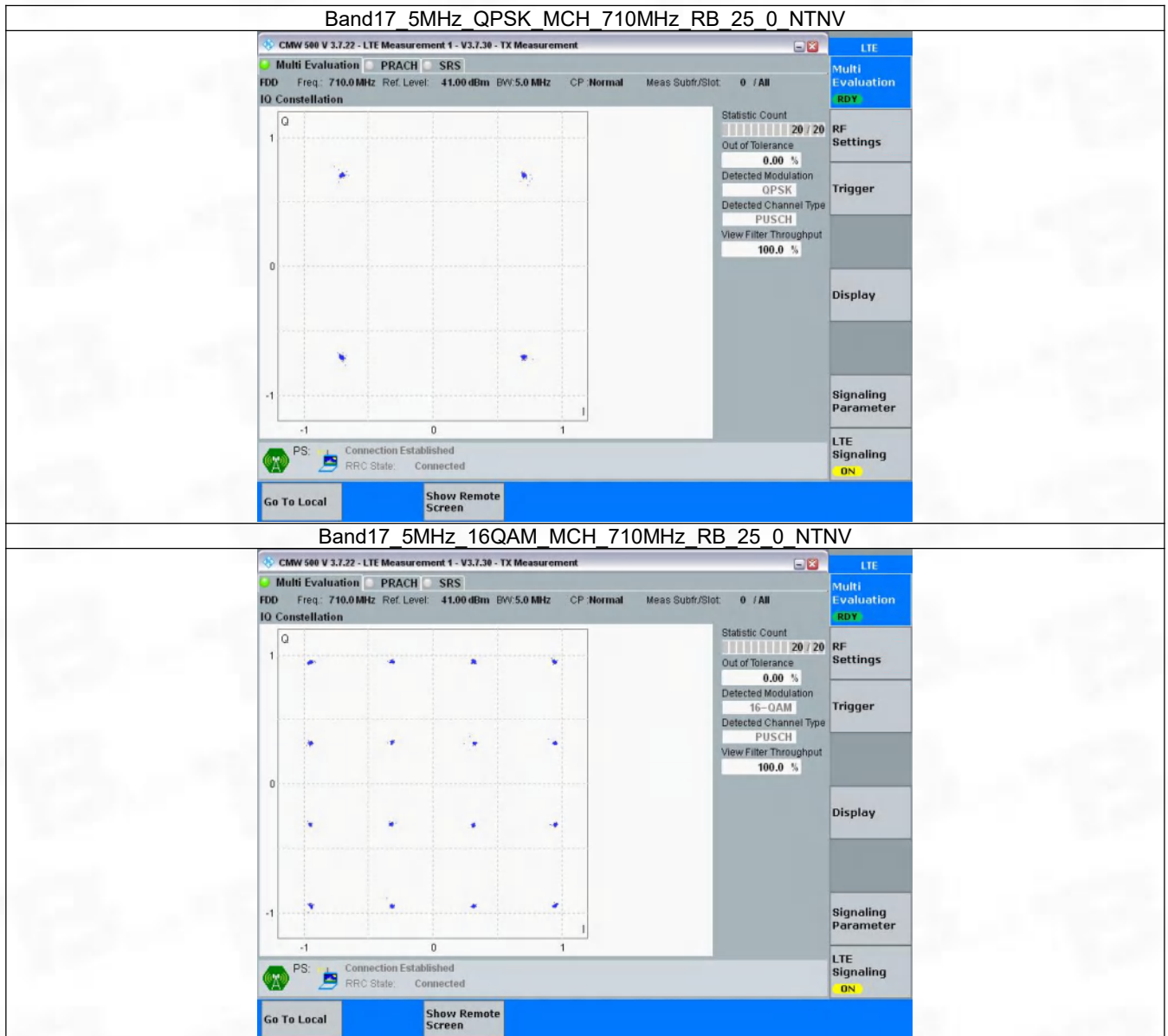
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

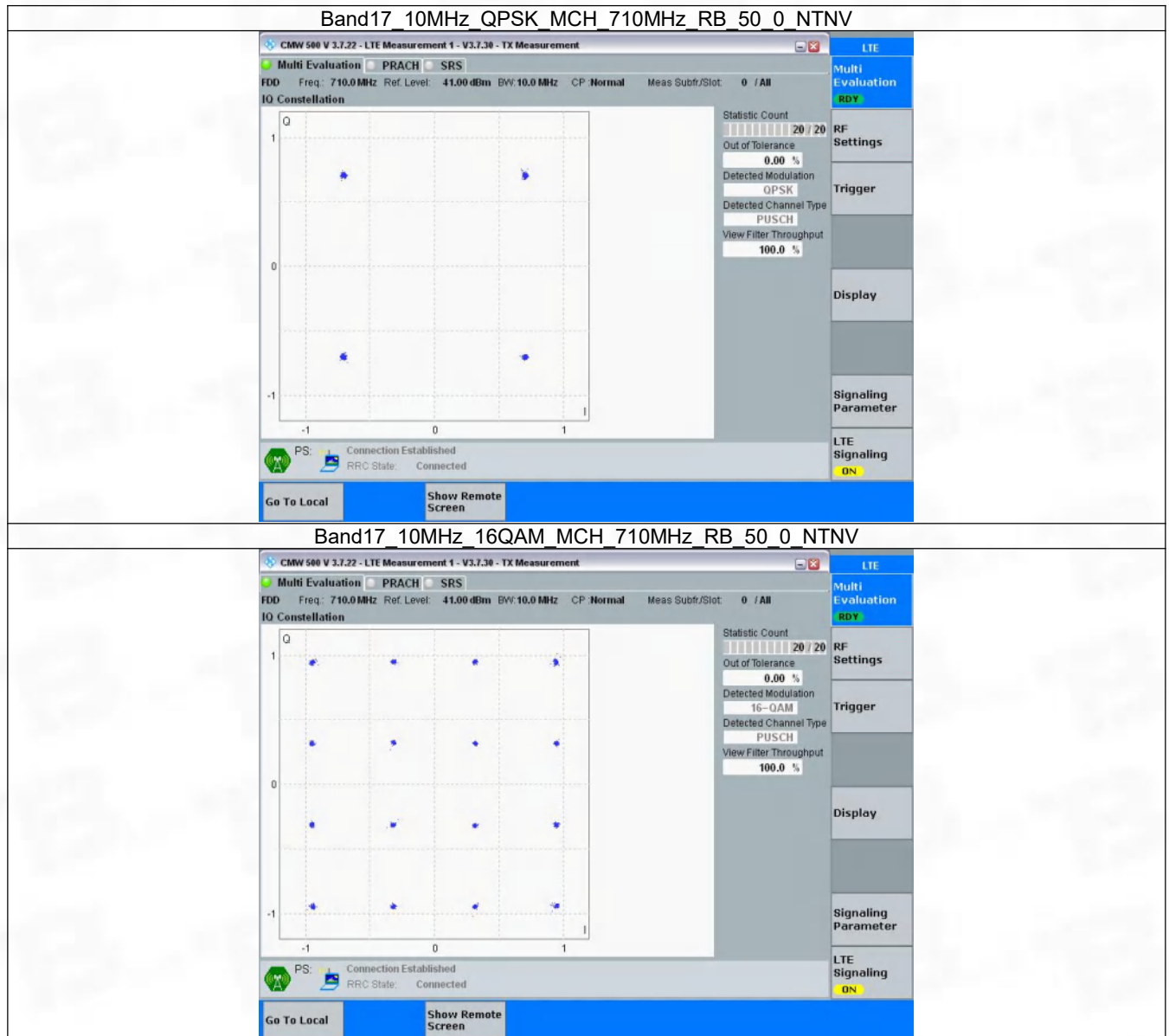
Band: 17 / Bandwidth: 10MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 B17_5MHz



3.2.2 B17_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band17_OBW

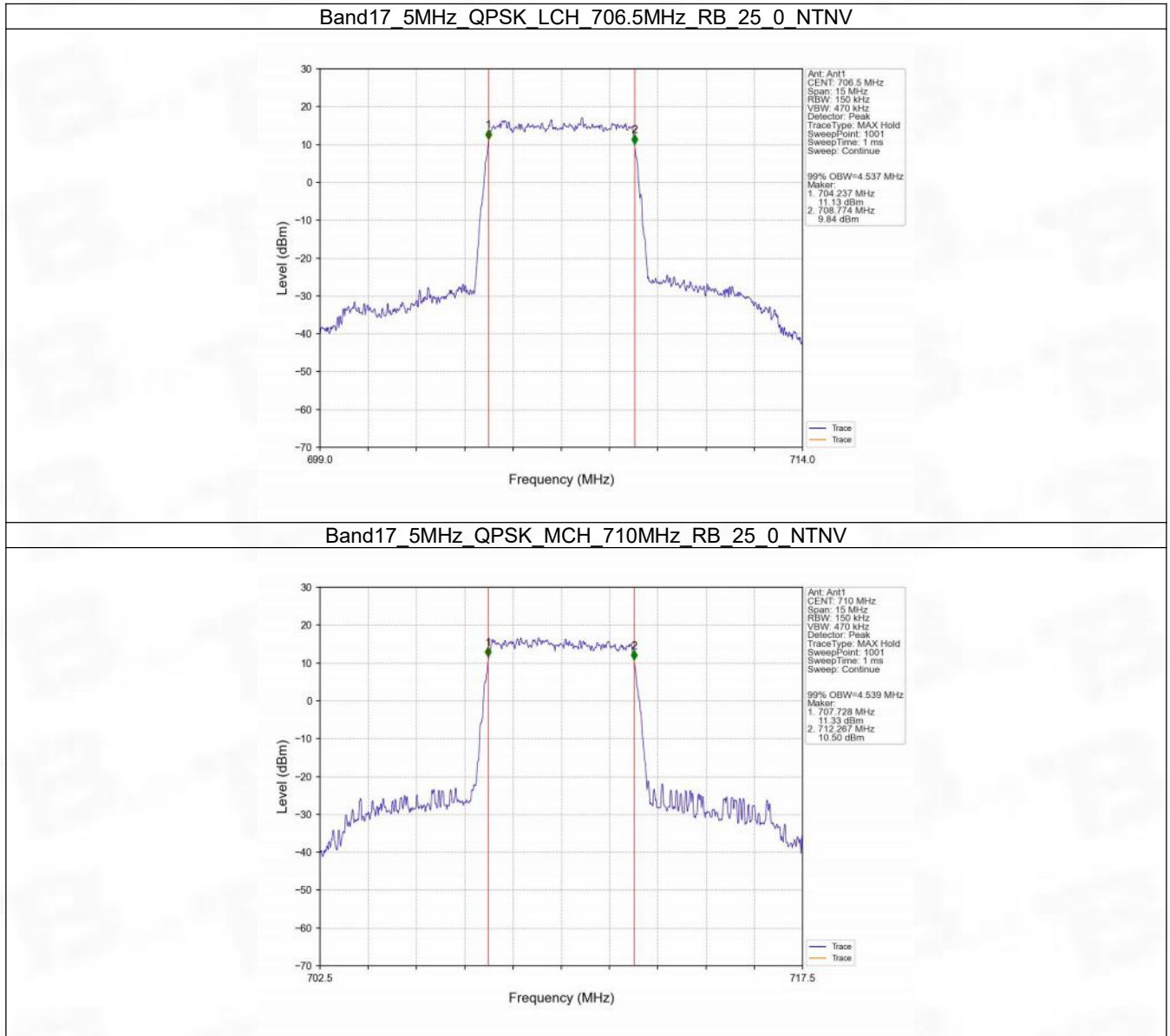
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.537	/	Pass
		710	25	0	4.539	/	Pass
		713.5	25	0	4.546	/	Pass
	16QAM	706.5	25	0	4.578	/	Pass
		710	25	0	4.553	/	Pass
		713.5	25	0	4.553	/	Pass
10	QPSK	709	50	0	9.052	/	Pass
		710	50	0	9.054	/	Pass
		711	50	0	9.073	/	Pass
	16QAM	709	50	0	9.063	/	Pass
		710	50	0	9.065	/	Pass
		711	50	0	9.074	/	Pass

4.1.2 Band17_XDB

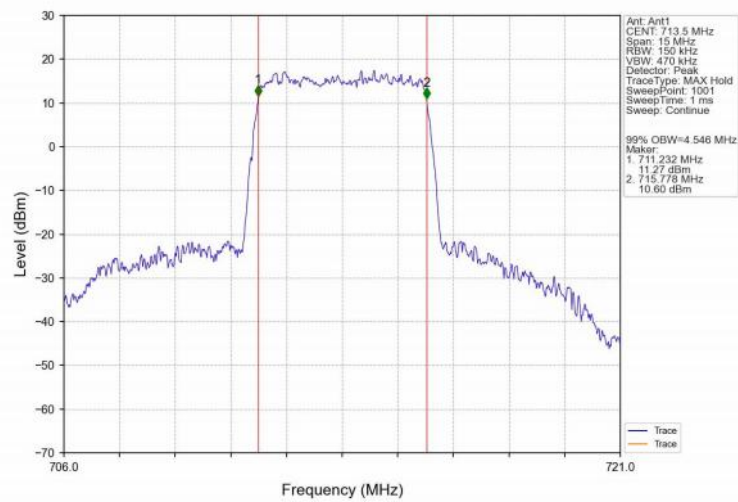
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.038	/	Pass
		710	25	0	5.064	/	Pass
		713.5	25	0	5.073	/	Pass
	16QAM	706.5	25	0	5.071	/	Pass
		710	25	0	5.091	/	Pass
		713.5	25	0	5.079	/	Pass
10	QPSK	709	50	0	10.067	/	Pass
		710	50	0	10.084	/	Pass
		711	50	0	10.049	/	Pass
	16QAM	709	50	0	10.016	/	Pass
		710	50	0	10.058	/	Pass
		711	50	0	10.014	/	Pass

4.2 Test Graph

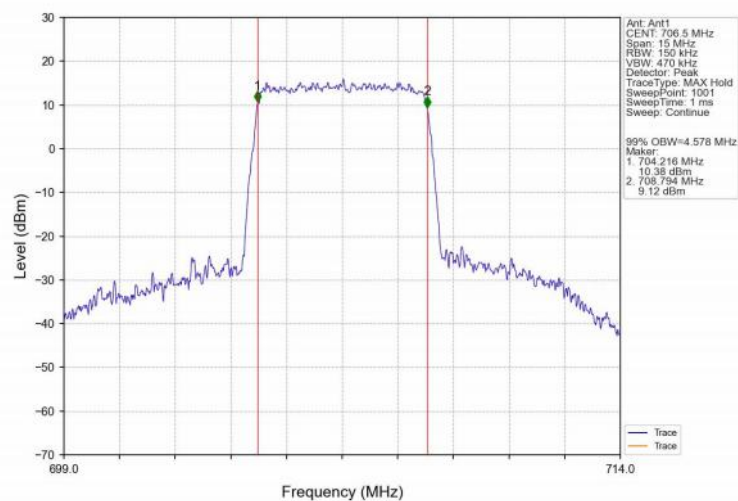
4.2.1 Band17_OBW



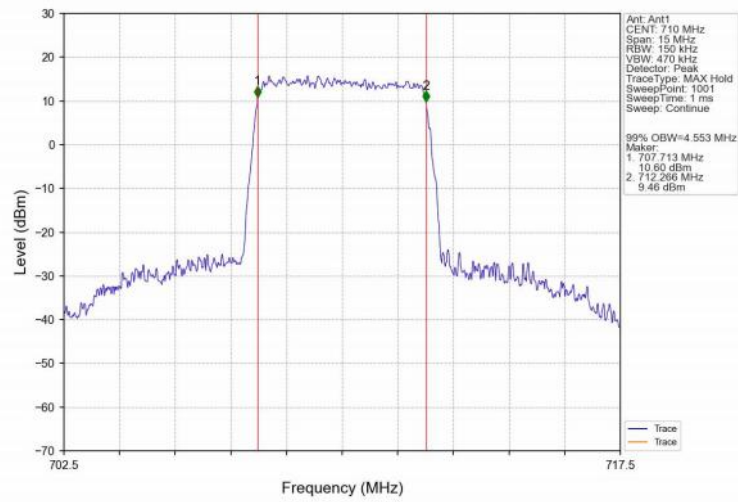
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



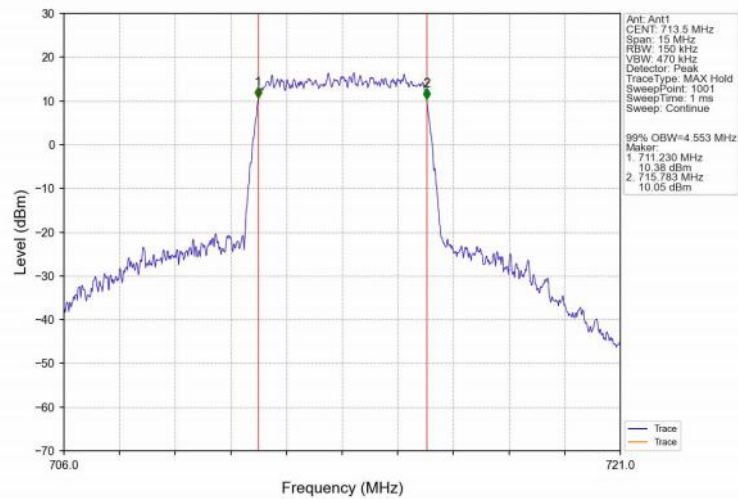
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



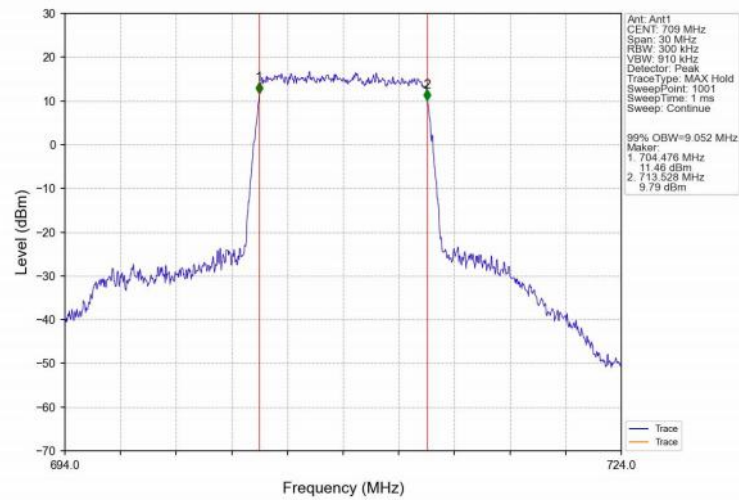
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



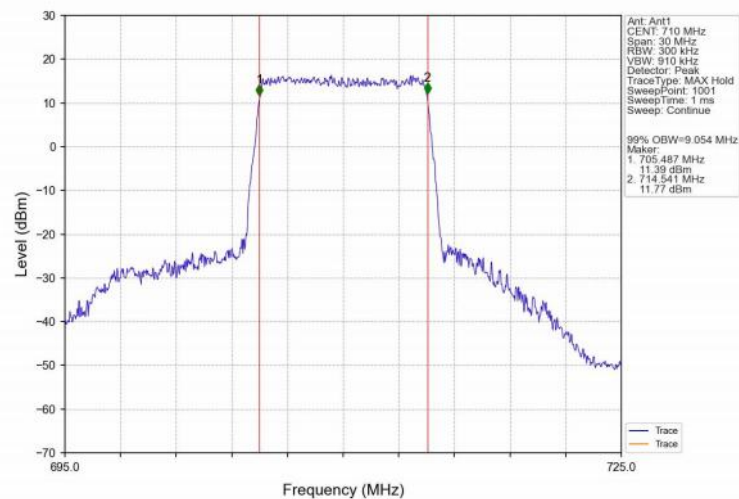
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



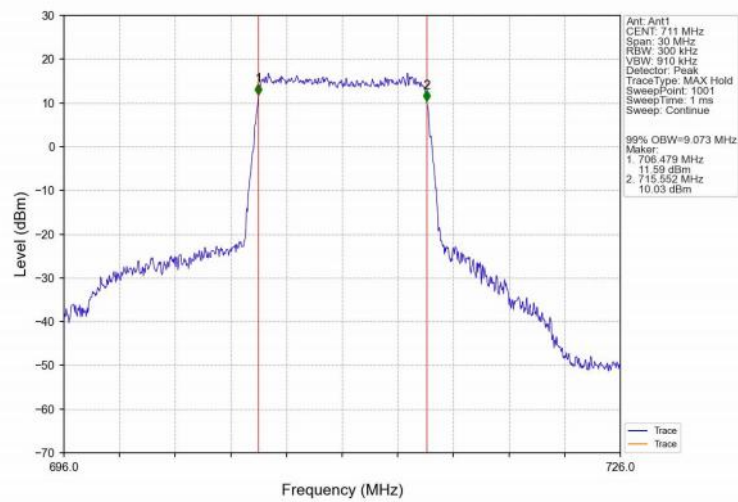
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



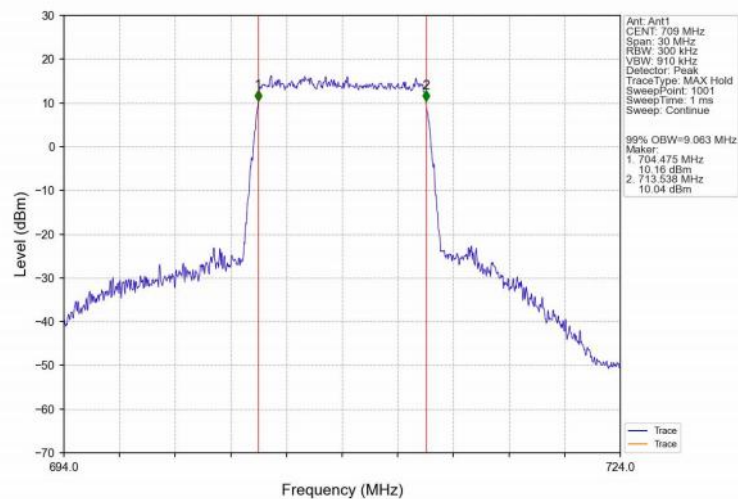
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



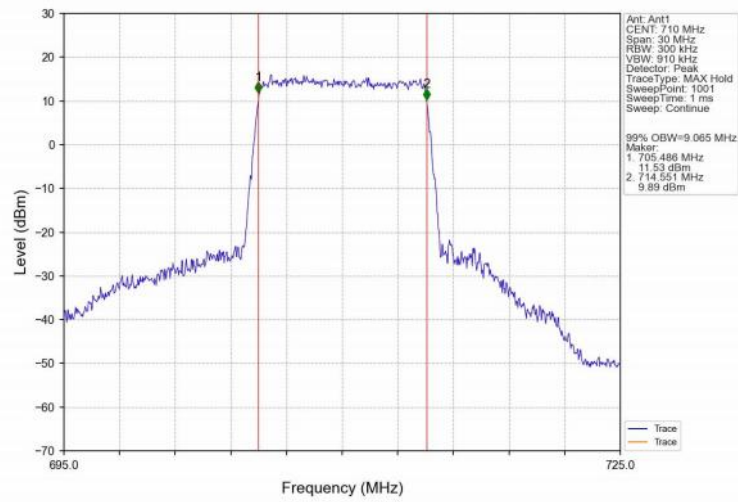
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



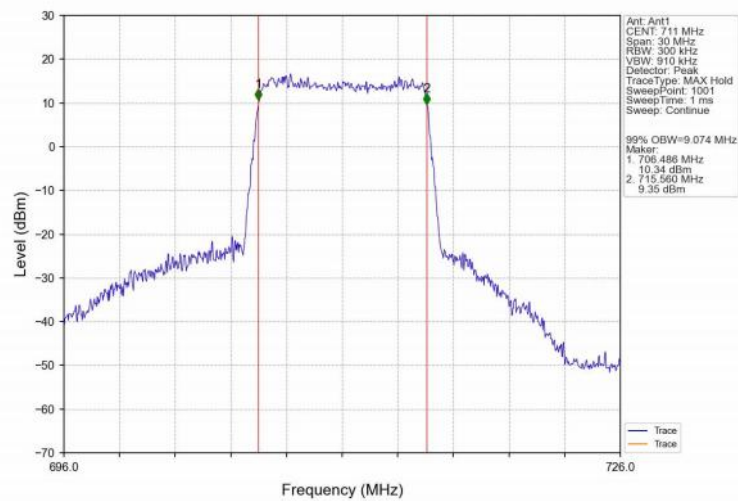
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV

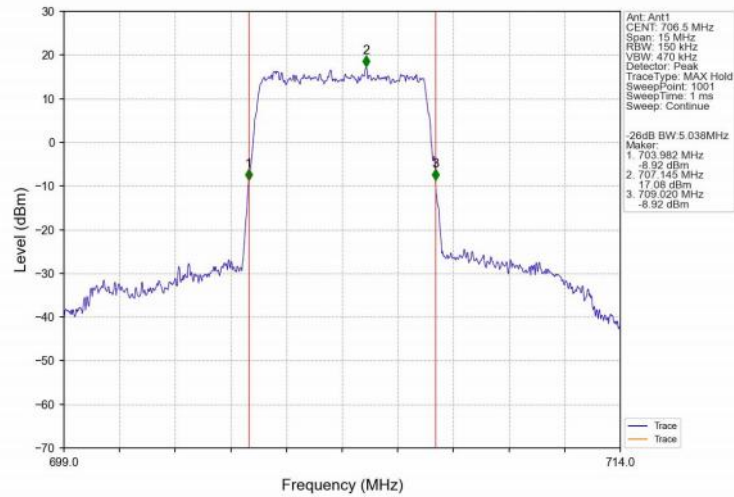


Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

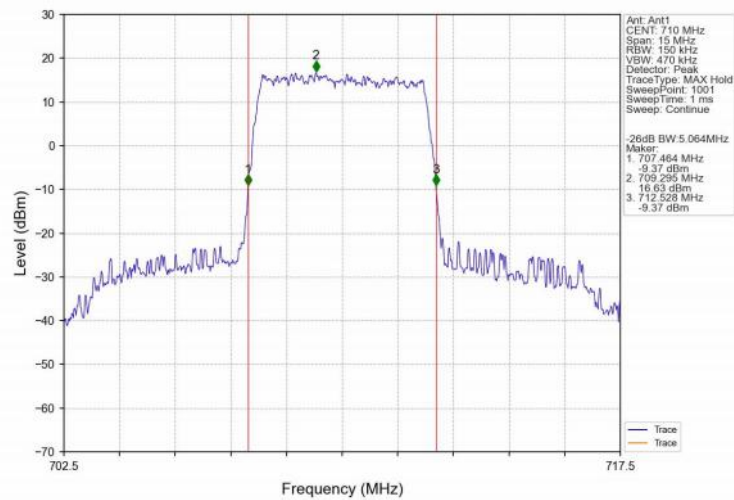


4.2.2 Band17_XDB

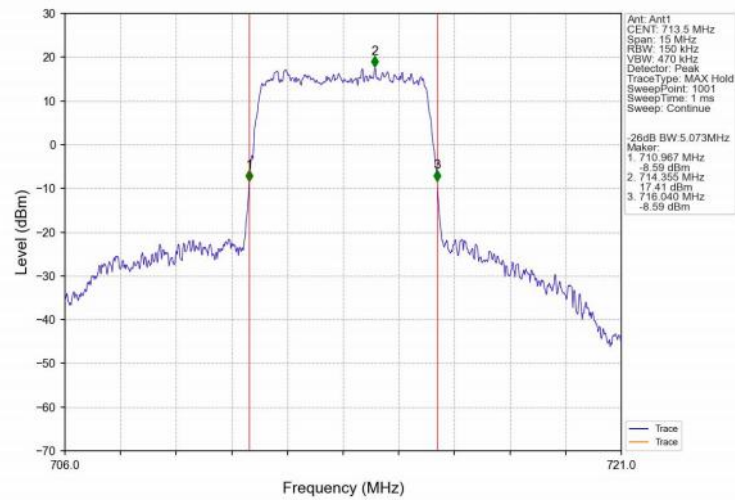
Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



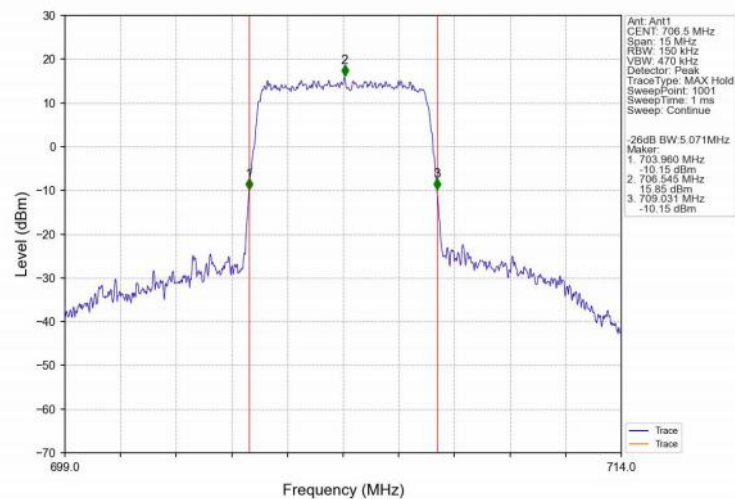
Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV



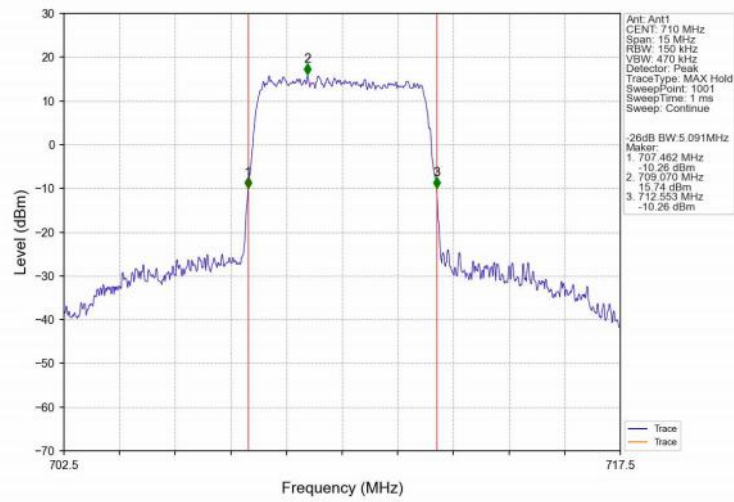
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



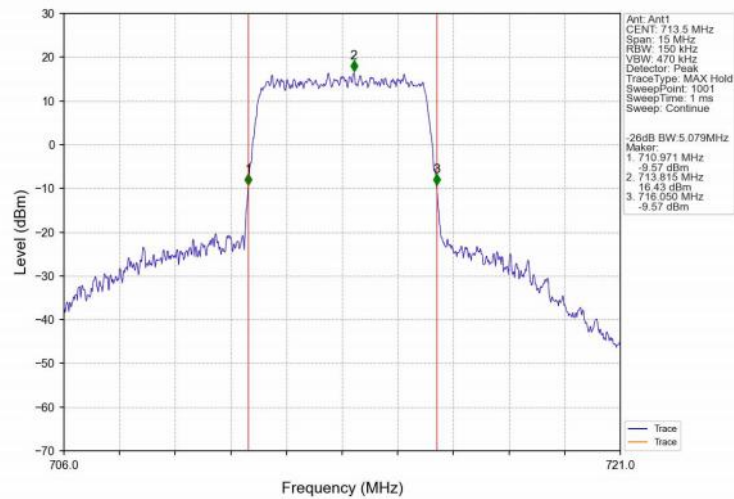
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



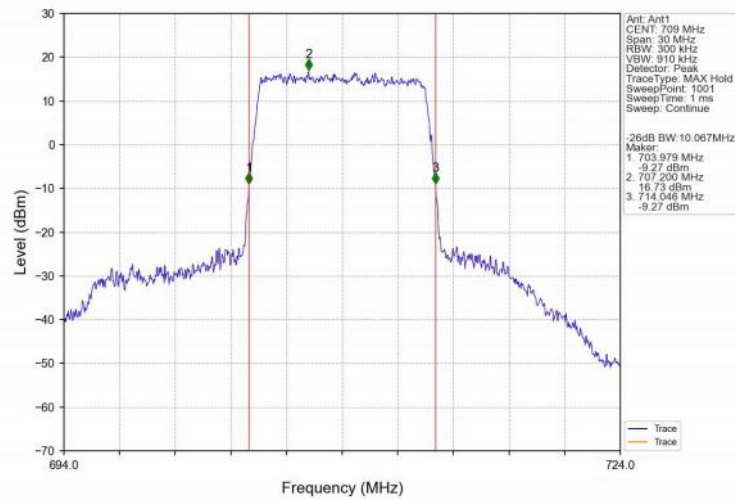
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



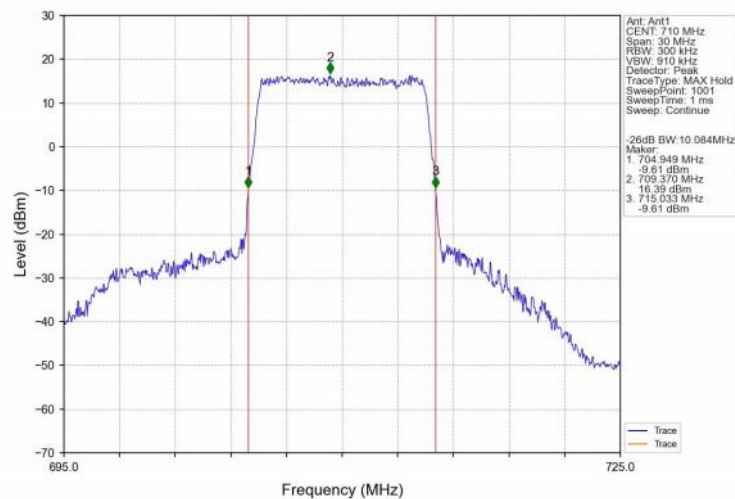
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



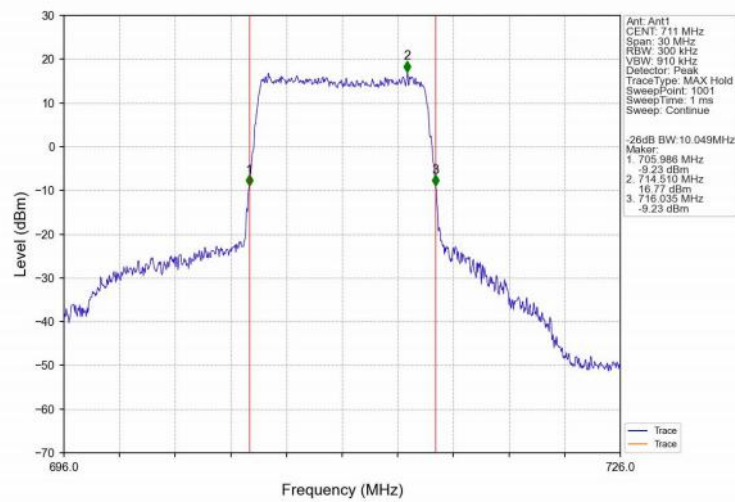
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



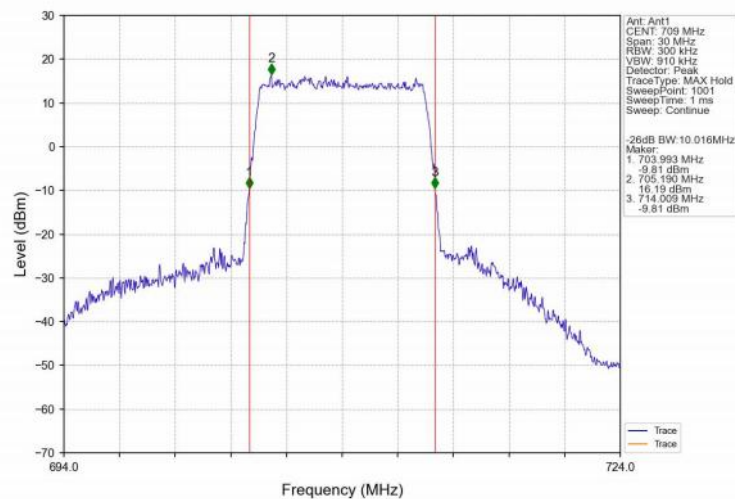
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



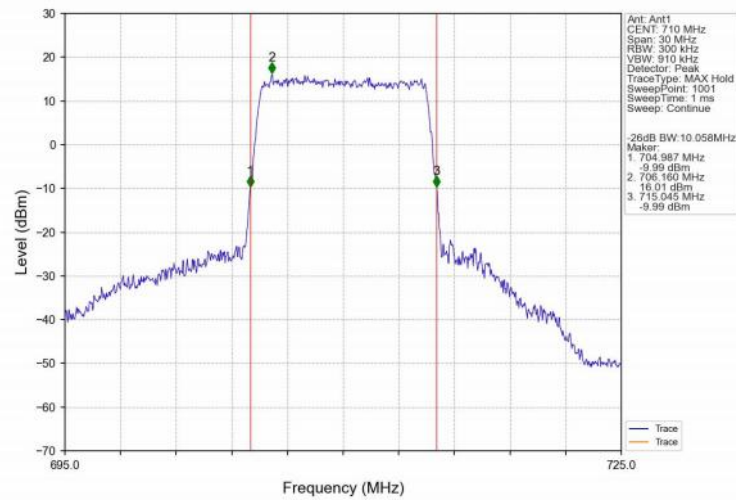
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



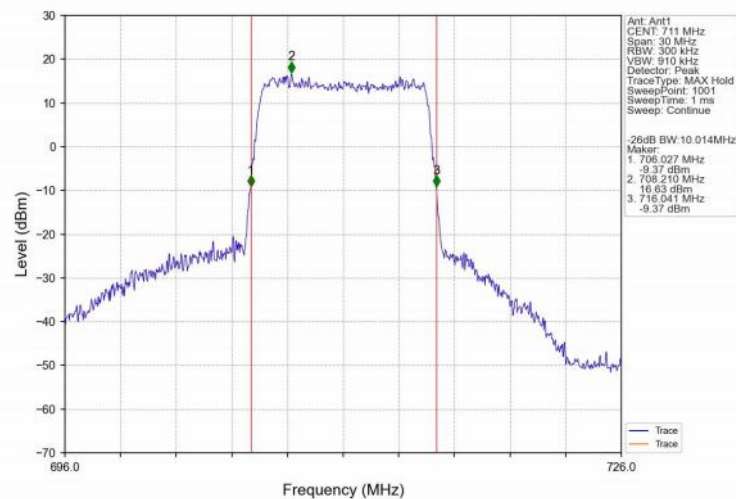
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B17_5MHz

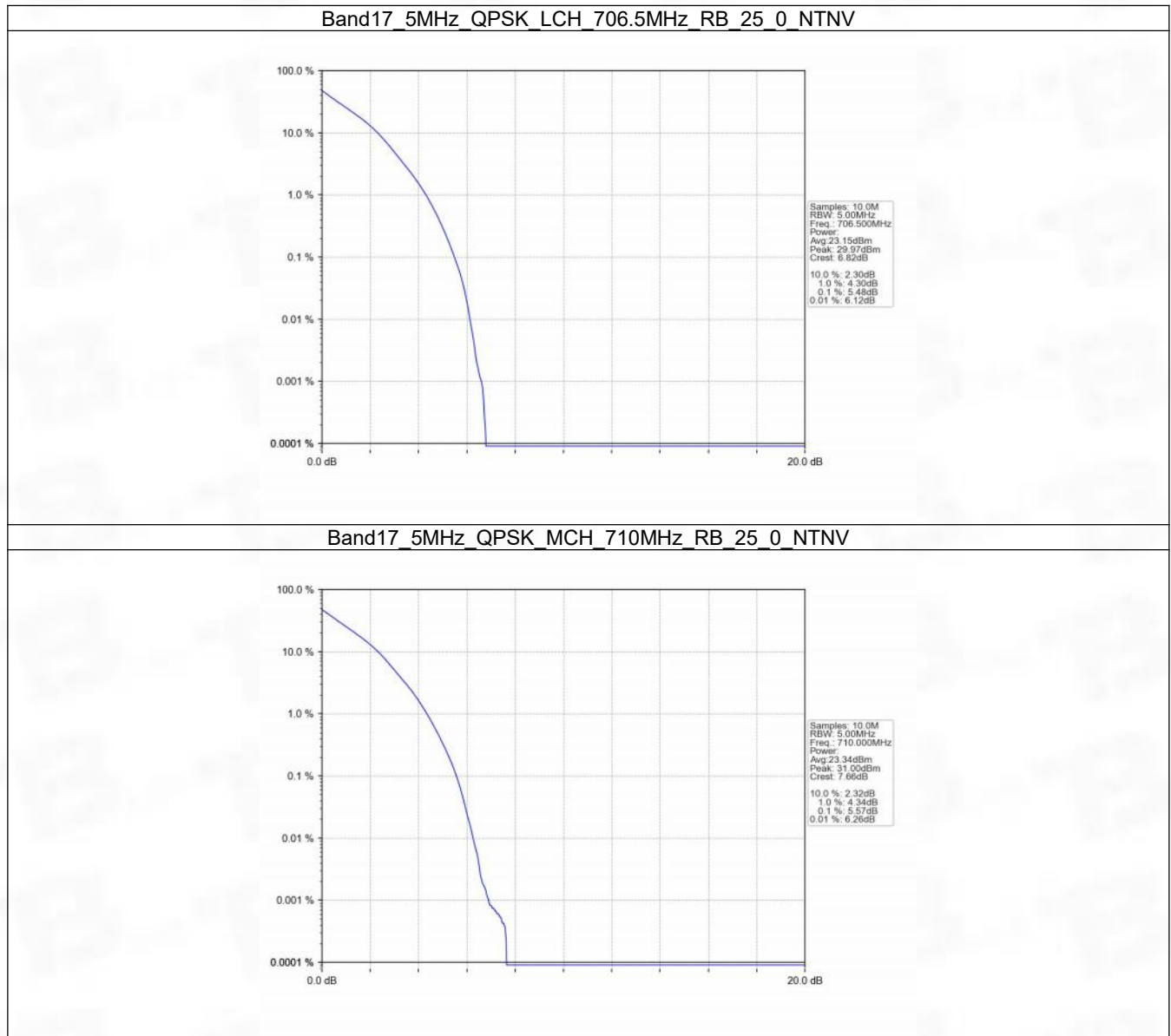
Band: 17 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.48	<=13	Pass
	710	25	0	5.57	<=13	Pass
	713.5	25	0	5.44	<=13	Pass
16QAM	706.5	25	0	6.23	<=13	Pass
	710	25	0	6.27	<=13	Pass
	713.5	25	0	6.11	<=13	Pass

5.1.2 B17_10MHz

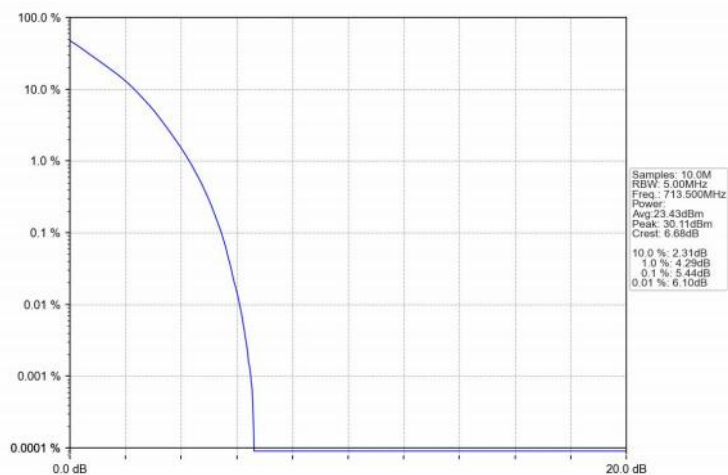
Band: 17 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.52	<=13	Pass
	710	50	0	5.54	<=13	Pass
	711	50	0	5.58	<=13	Pass
16QAM	709	50	0	6.25	<=13	Pass
	710	50	0	6.28	<=13	Pass
	711	50	0	6.24	<=13	Pass

5.2 Test Graph

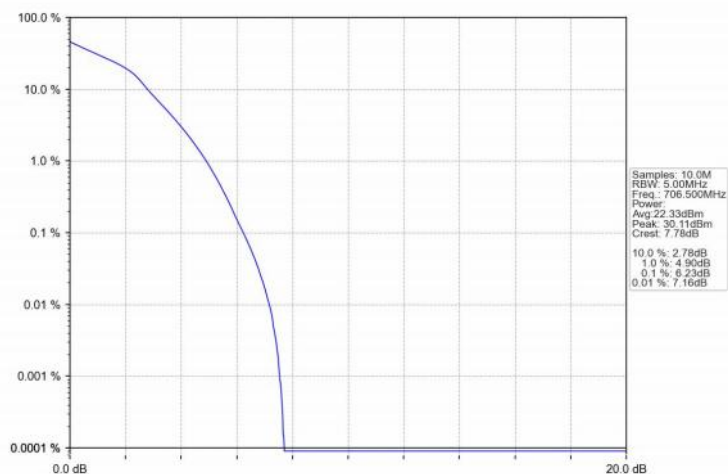
5.2.1 B17_5MHz



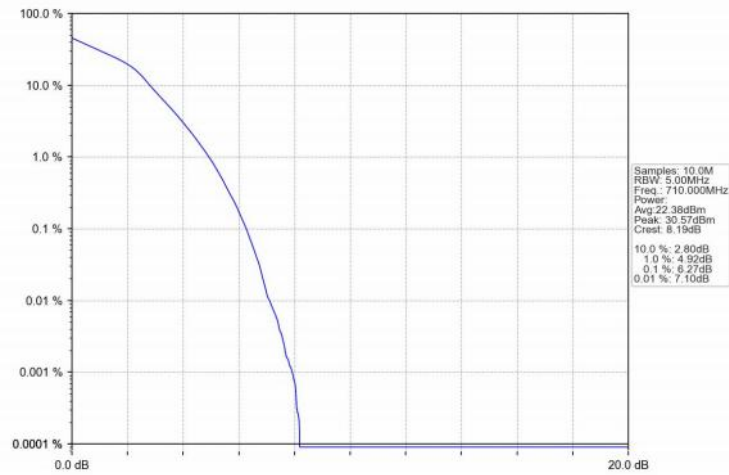
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



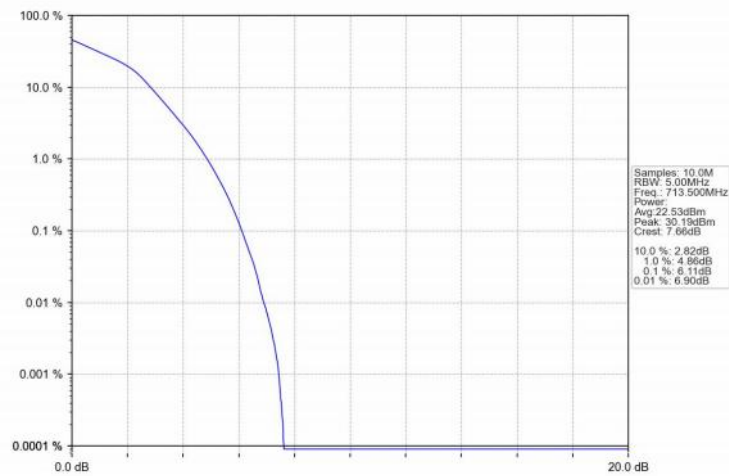
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

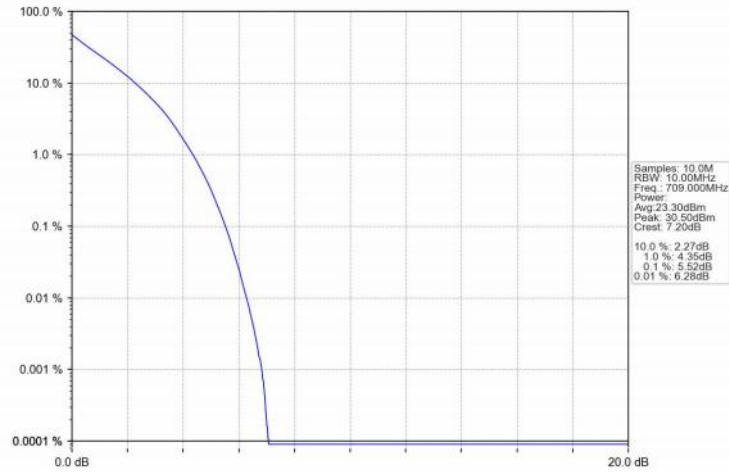


Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

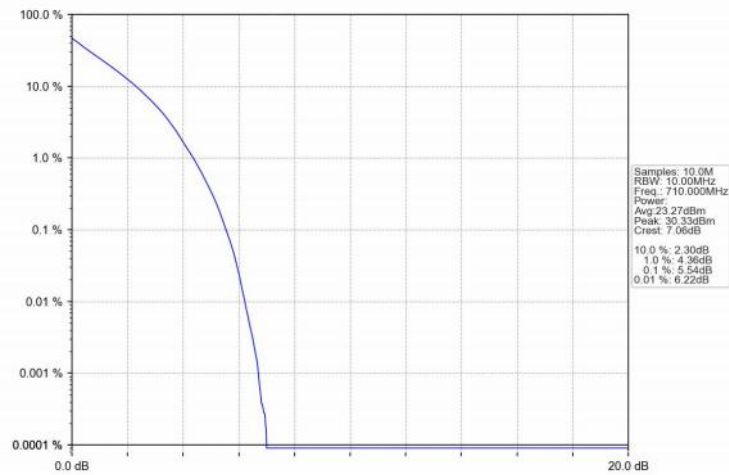


5.2.2 B17_10MHz

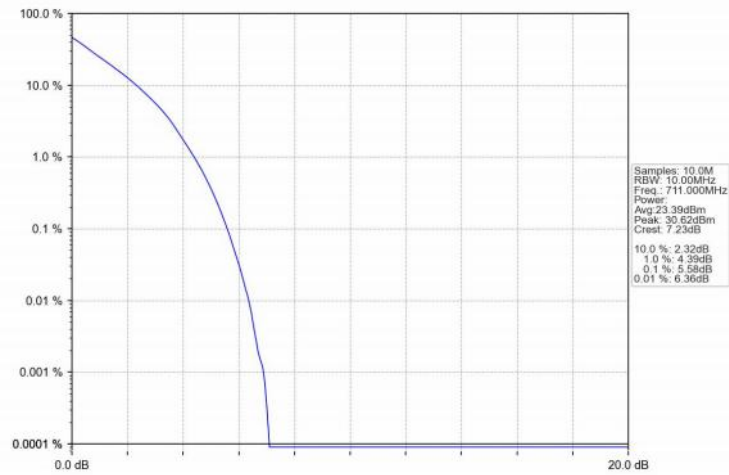
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



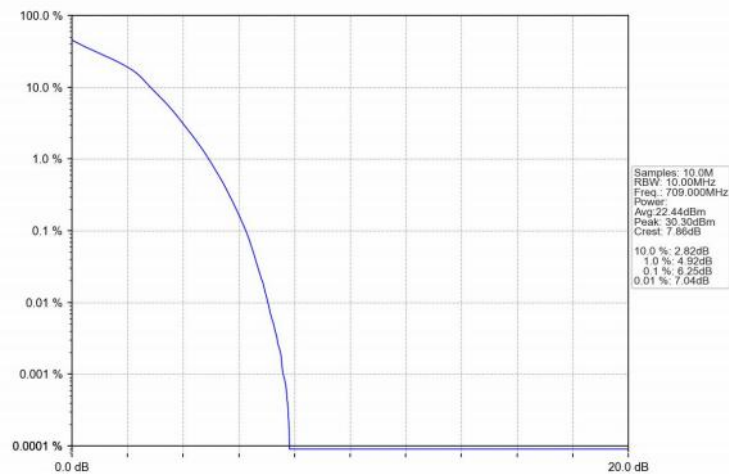
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



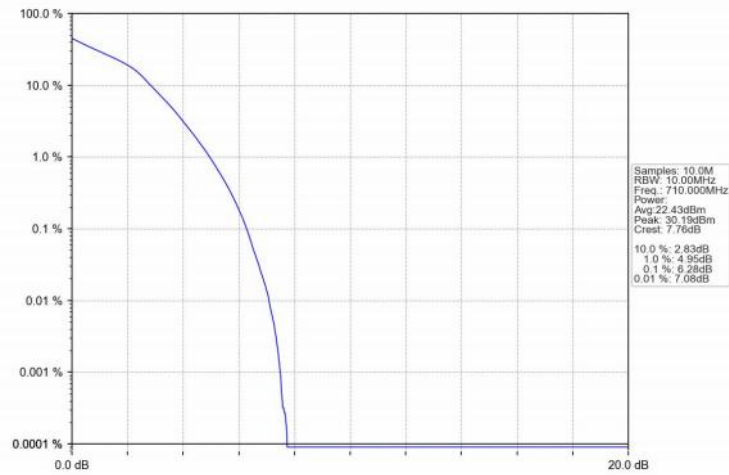
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



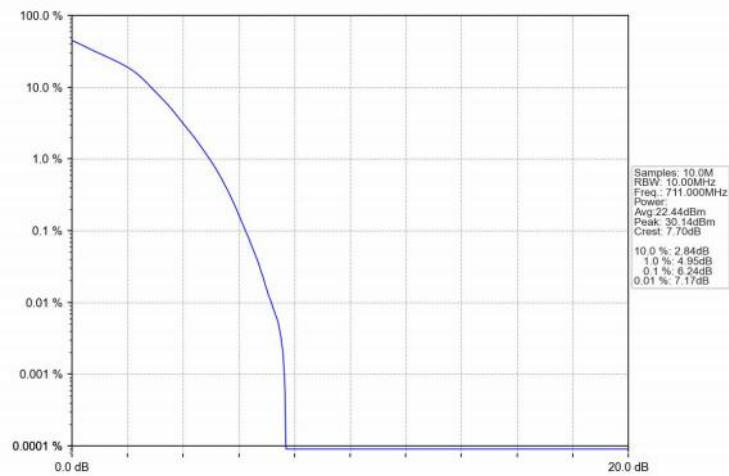
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B17_5MHz

Band: 17 / Bandwidth: 5MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	706.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	710	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
16QAM	706.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	710	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

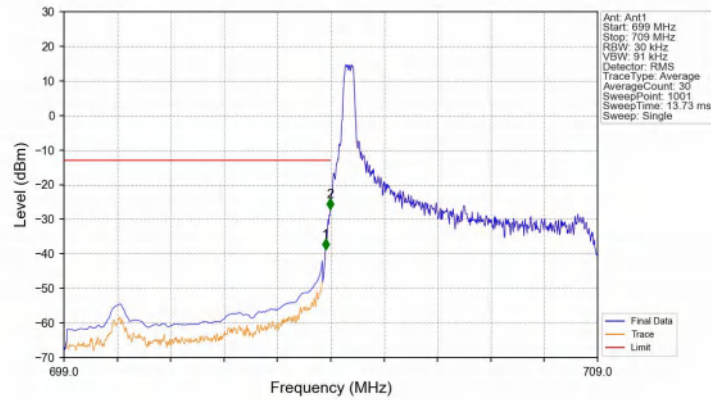
6.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	709	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	710	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
16QAM	709	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	710	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

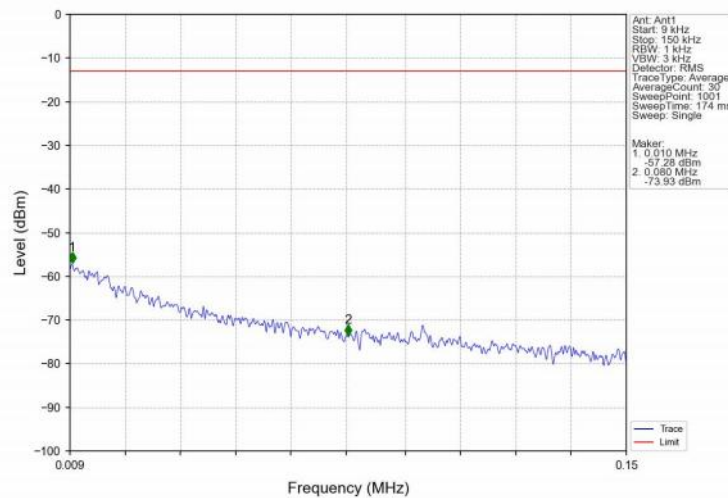
6.2 Test Graph

6.2.1 B17_5MHz

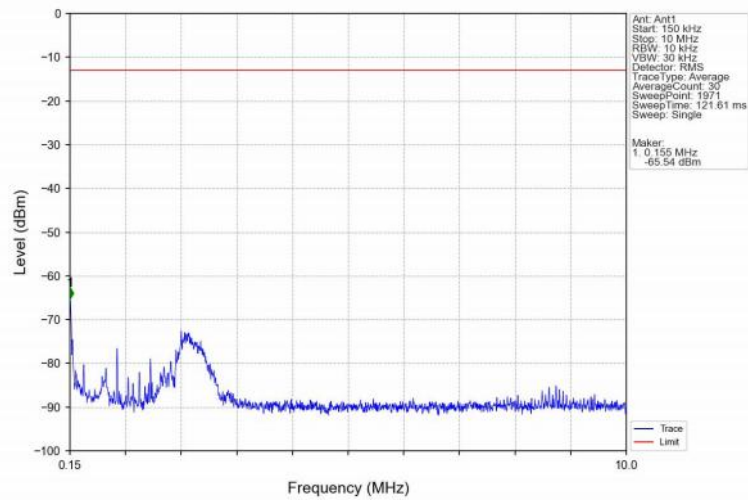
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



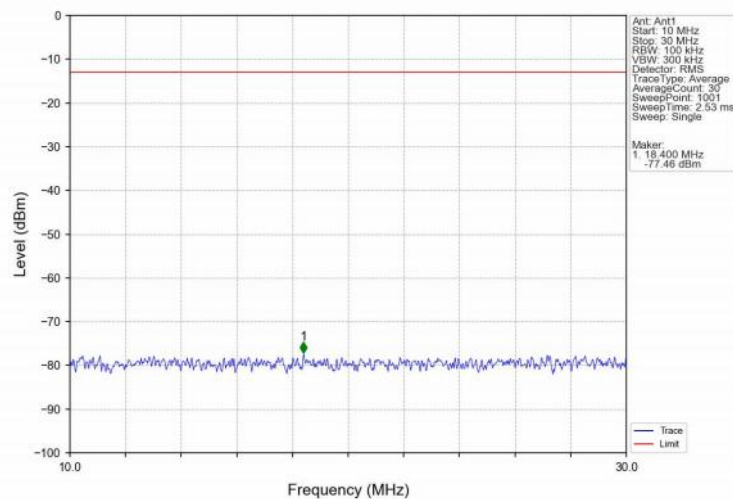
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



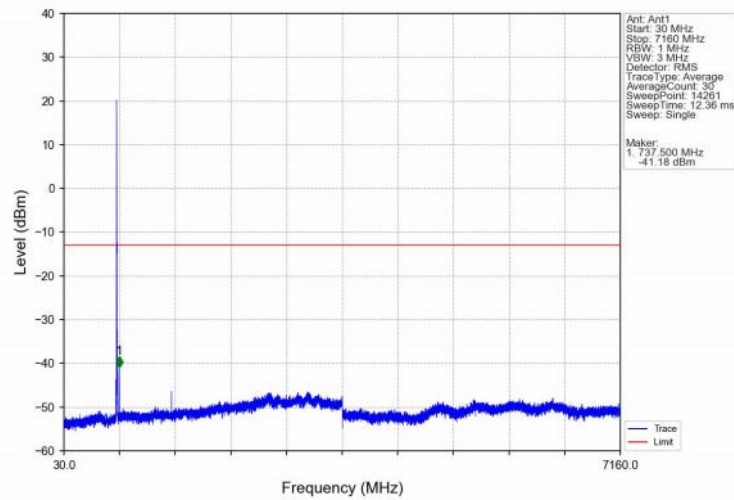
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



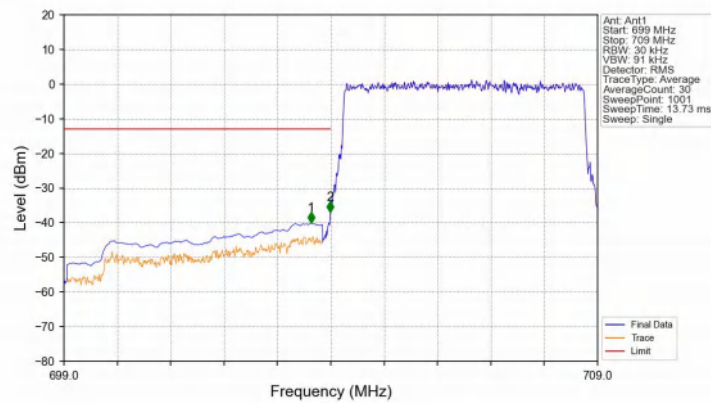
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

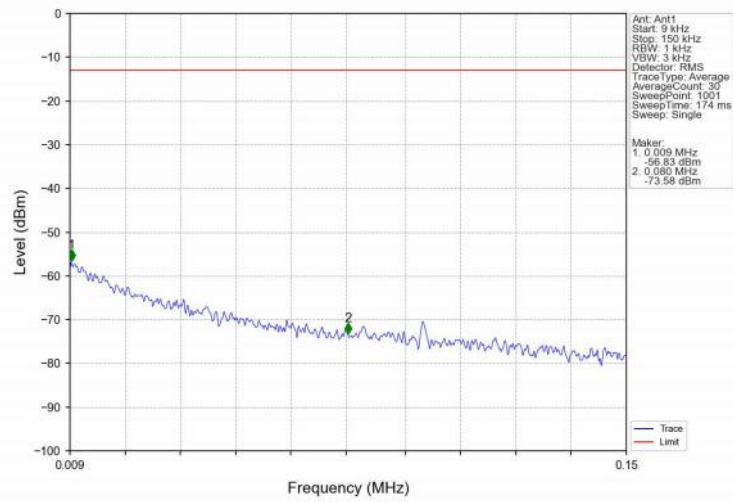


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

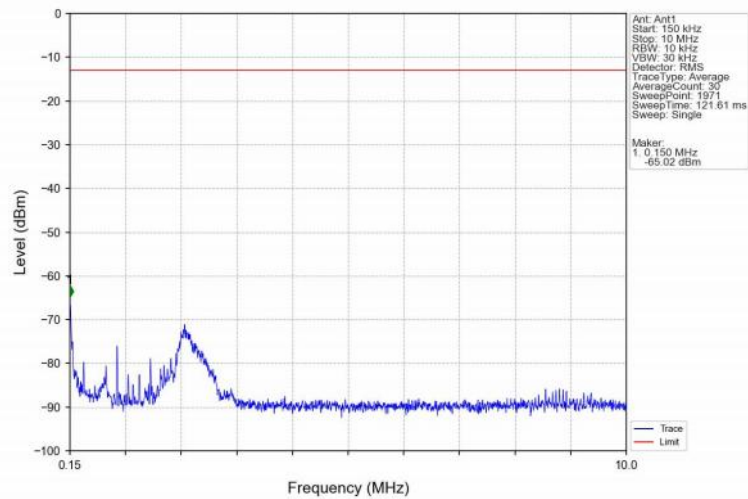


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.630	-40.09	-13	Pass
703.9	704	0.03	/	2	703.990	-36.94	-13	Pass
704	709	0.03	/	/	/	/	/	/

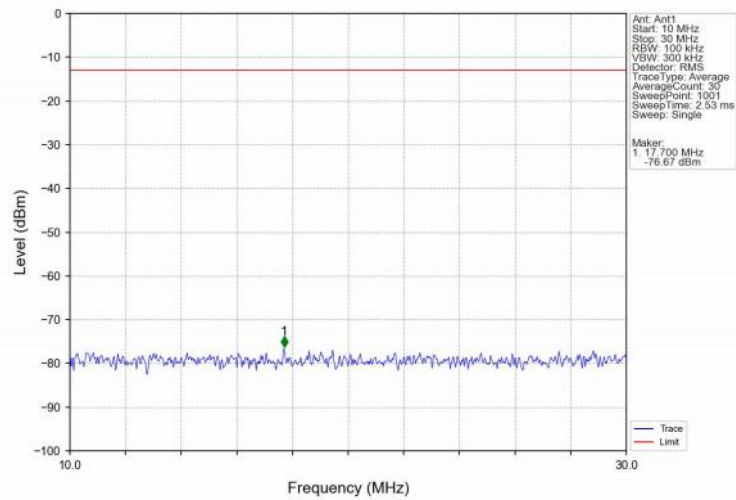
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



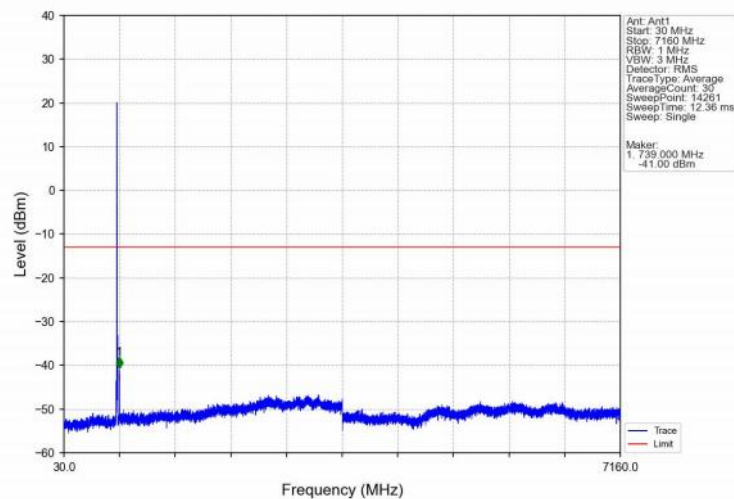
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



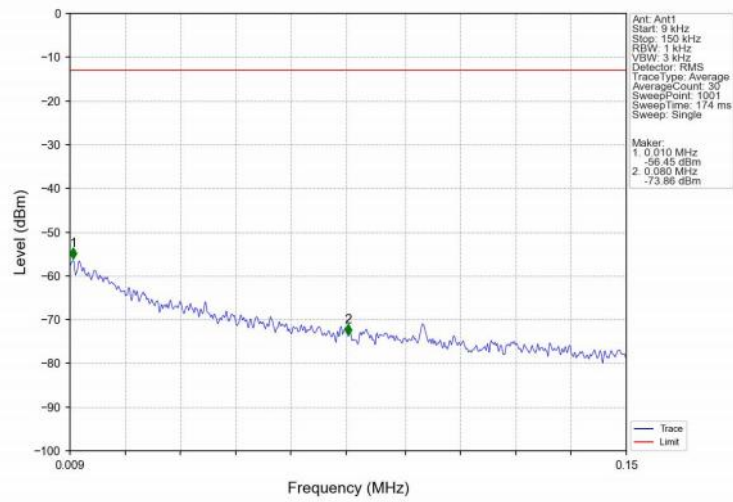
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



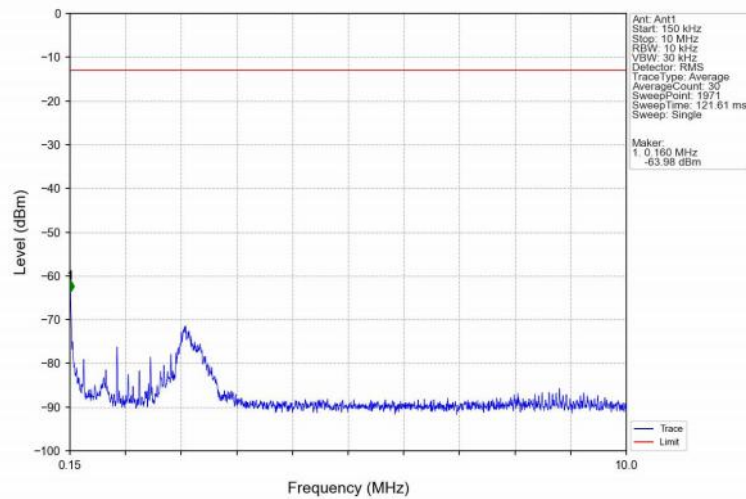
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



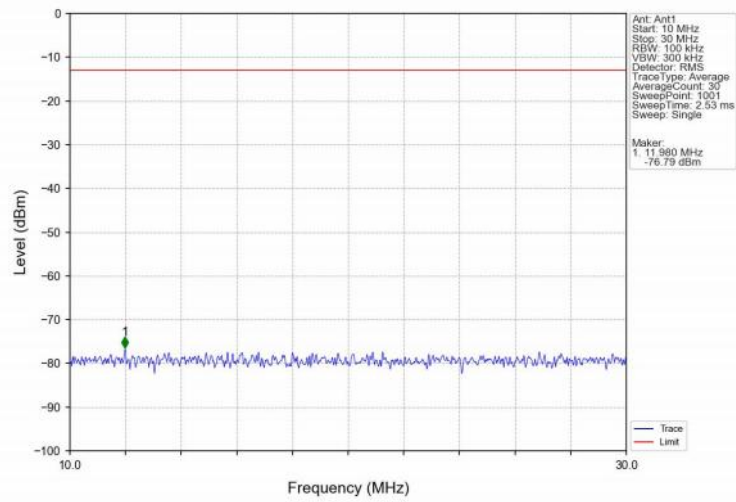
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



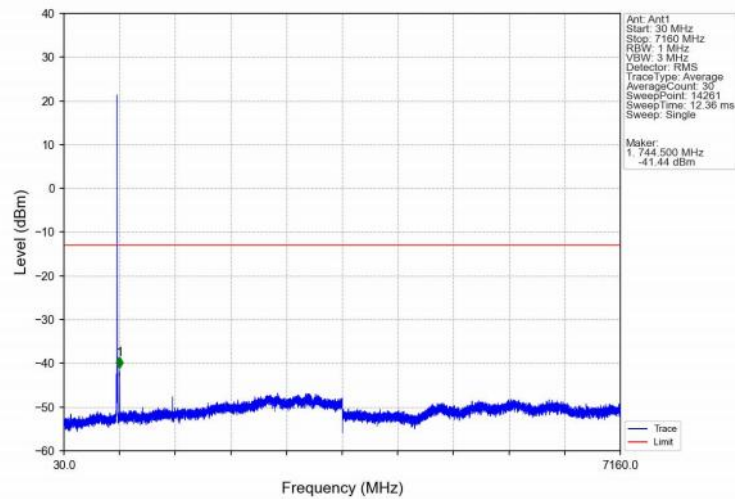
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



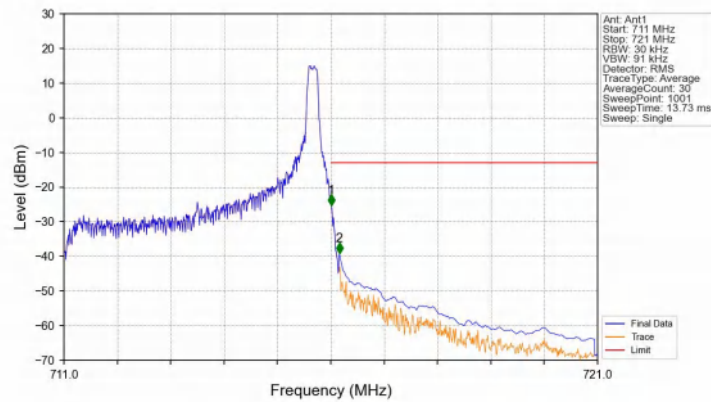
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

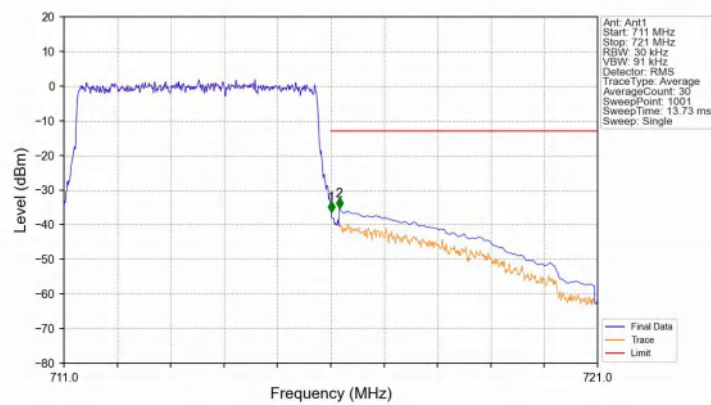


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



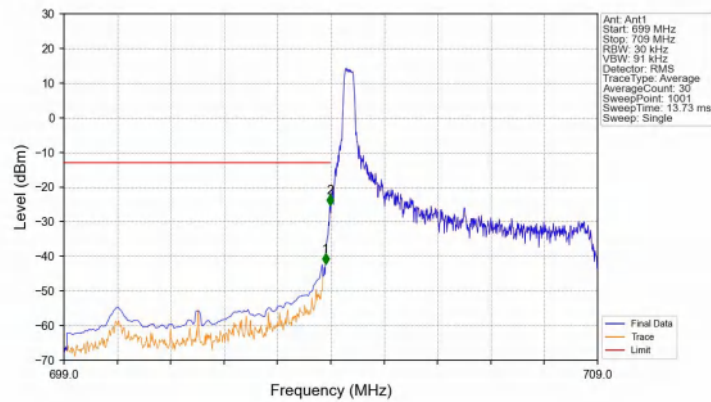
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-25.32	-13	Pass
716.1	721	0.1	CHP	2	716.160	-39.14	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



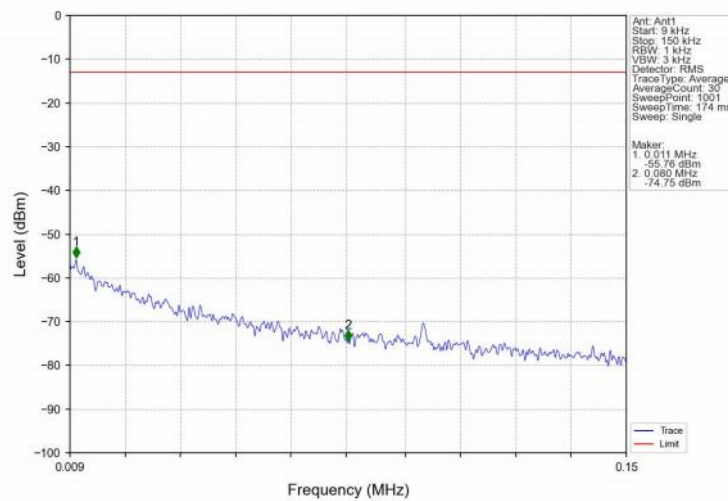
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-36.40	-13	Pass
716.1	721	0.1	CHP	2	716.160	-35.39	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

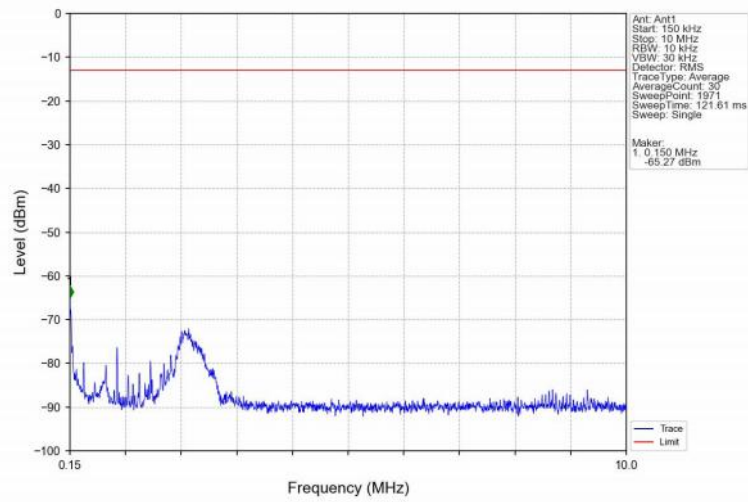


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.900	-42.34	-13	Pass
703.9	704	0.03	/	2	703.990	-25.38	-13	Pass
704	709	0.03	/	/	/	/	/	/

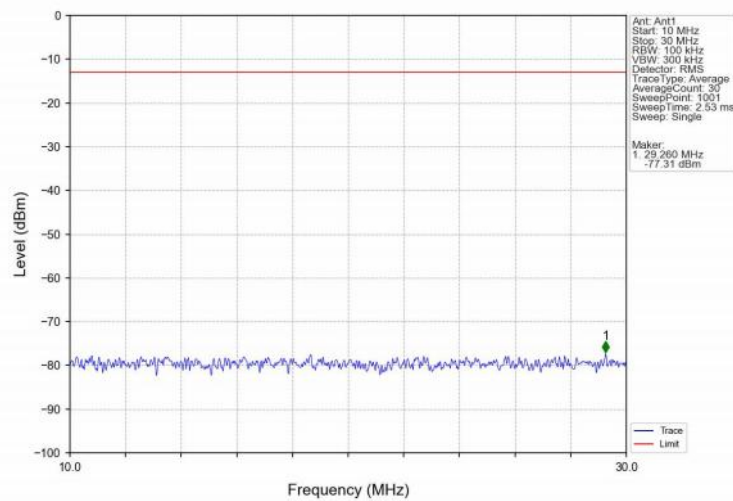
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



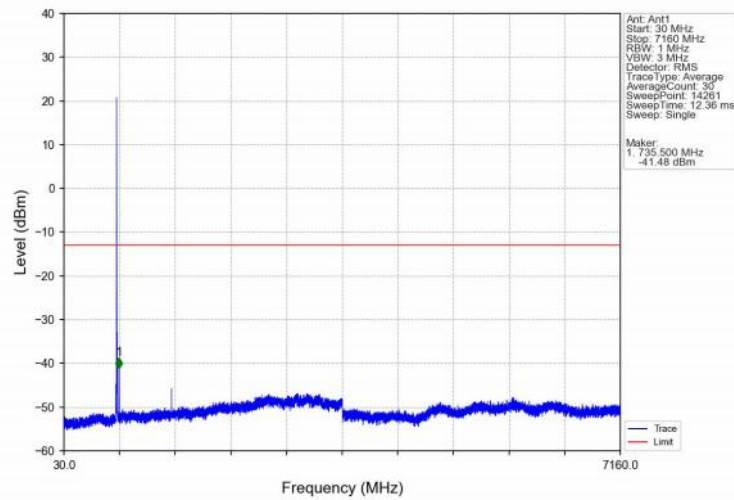
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



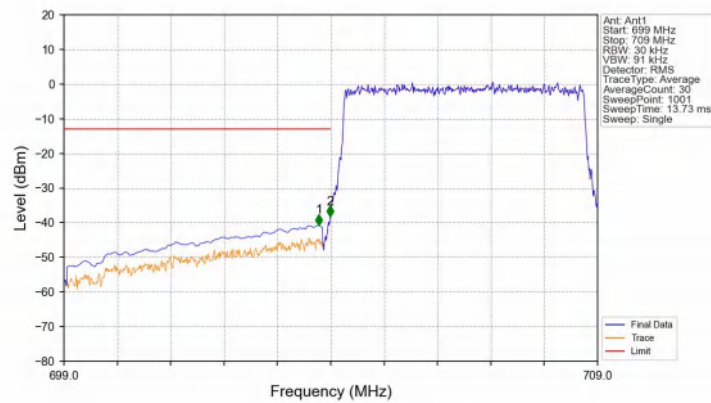
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

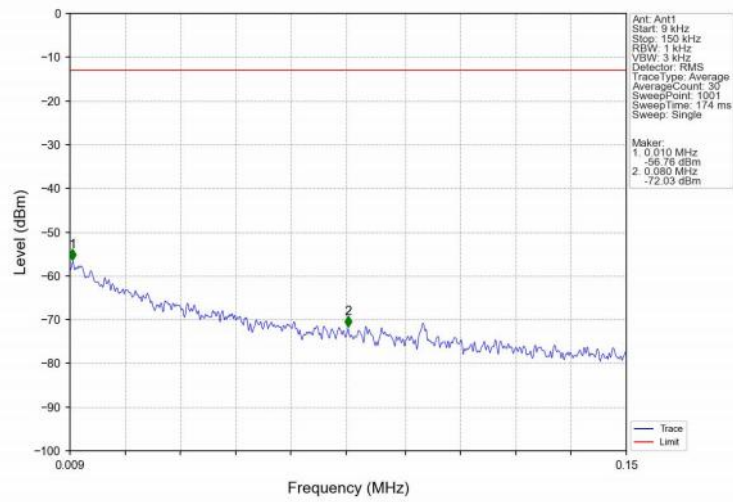


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

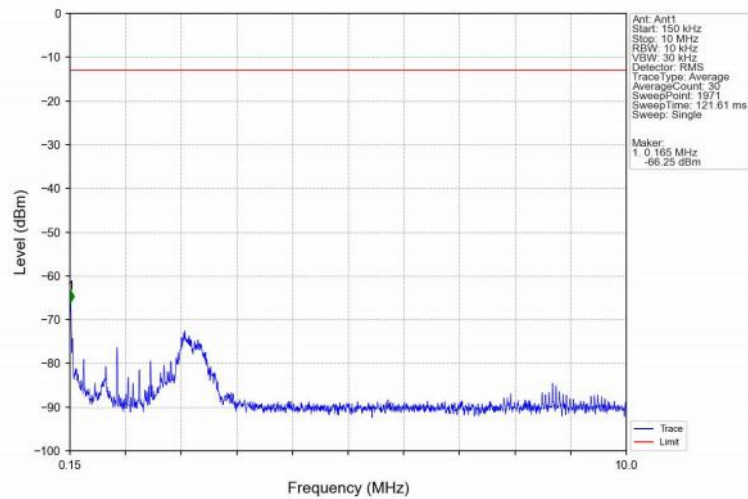


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.780	-40.69	-13	Pass
703.9	704	0.03	/	2	703.990	-38.18	-13	Pass
704	709	0.03	/	/	/	/	/	/

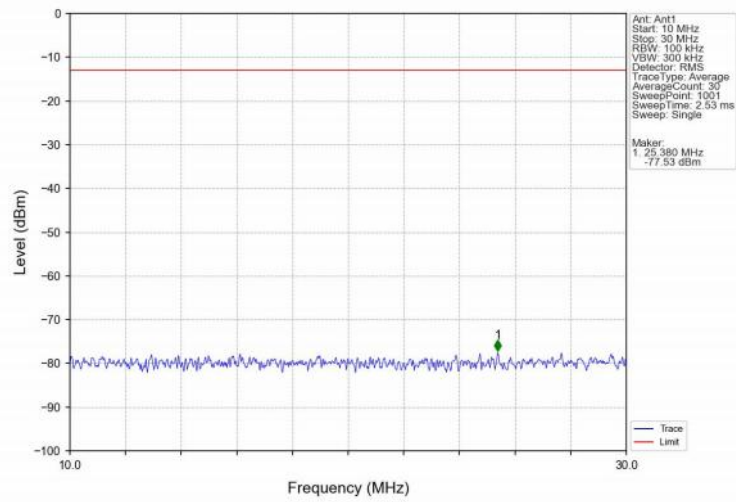
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



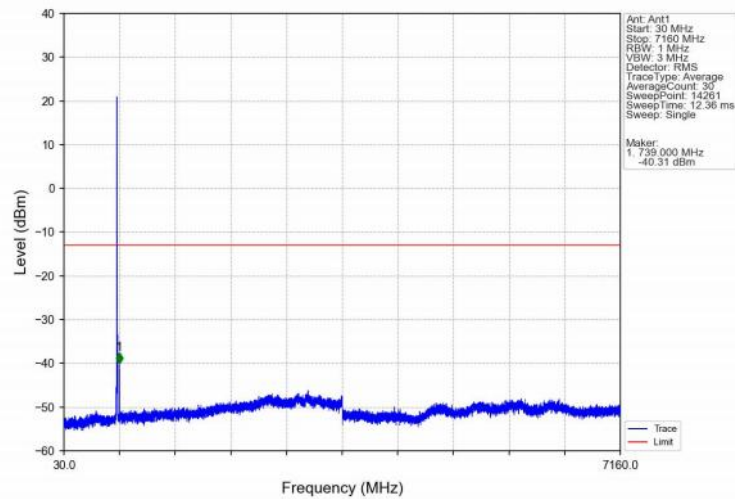
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



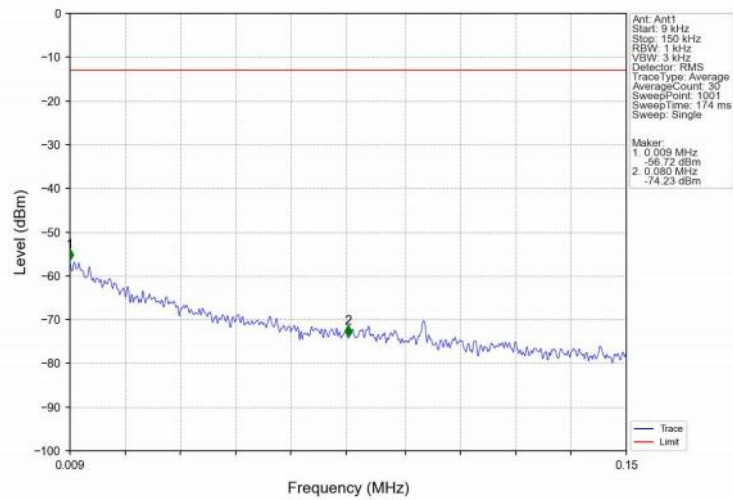
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



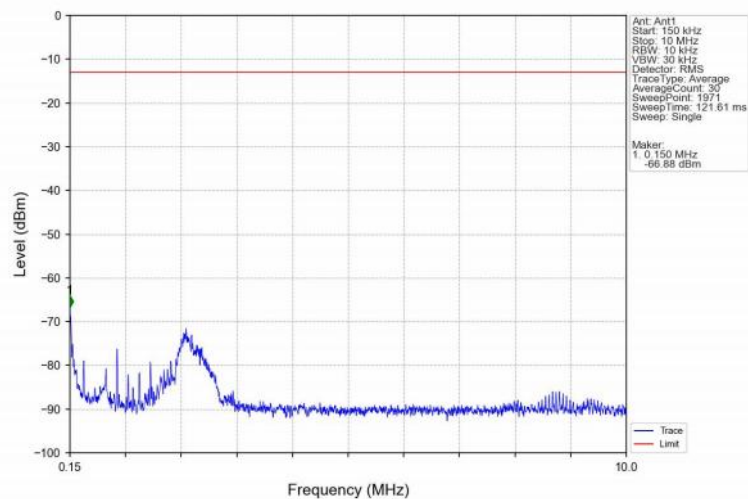
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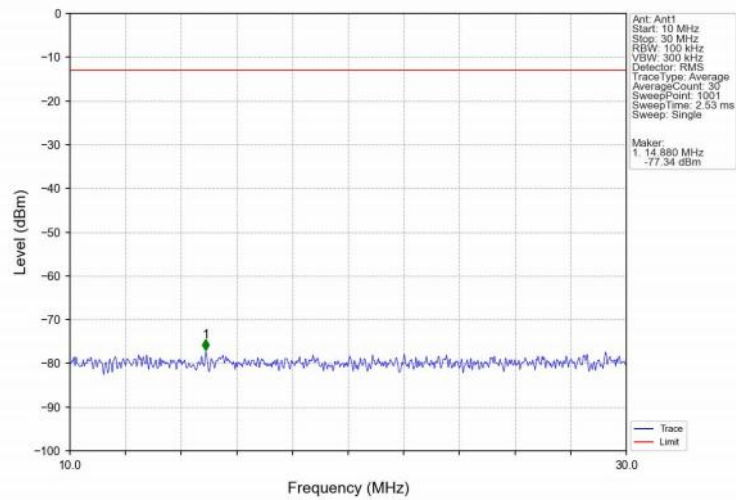
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



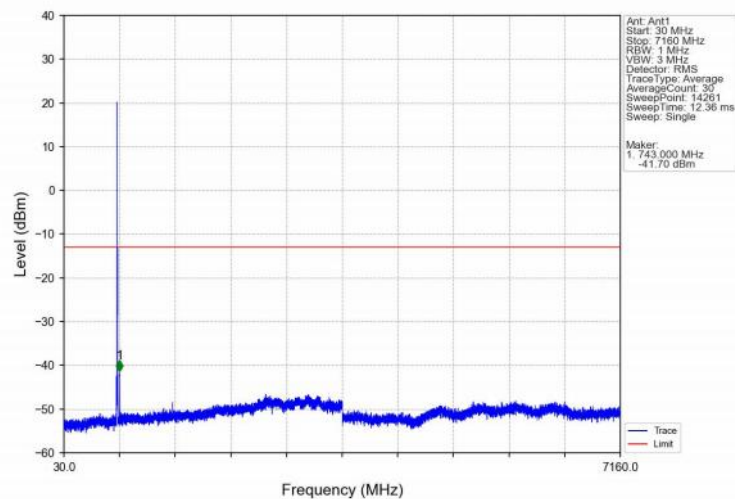
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



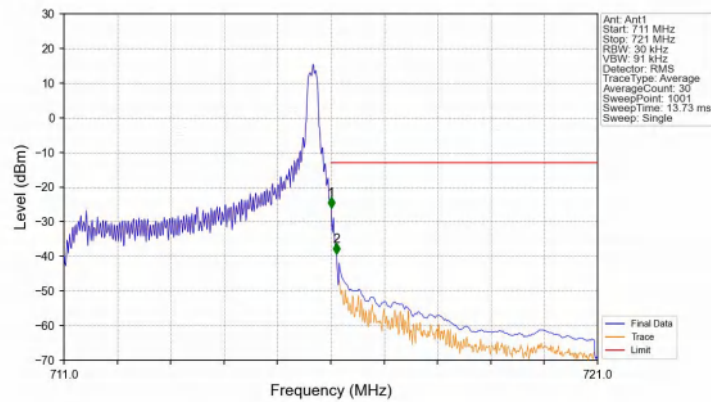
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

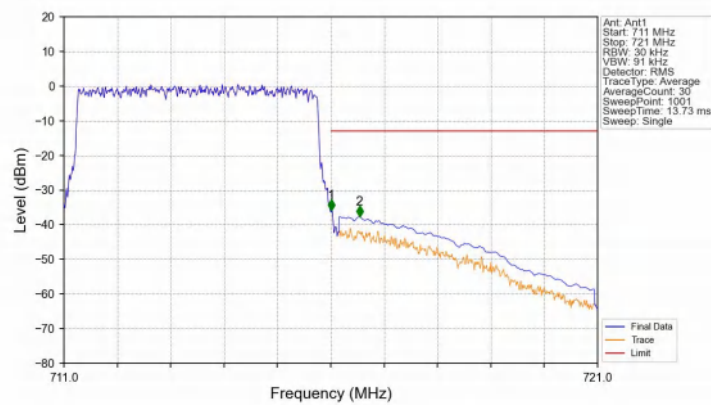


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



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	-26.05	-13	Pass
716.1	721	0.1	CHP	2	716.110	-39.33	-13	Pass

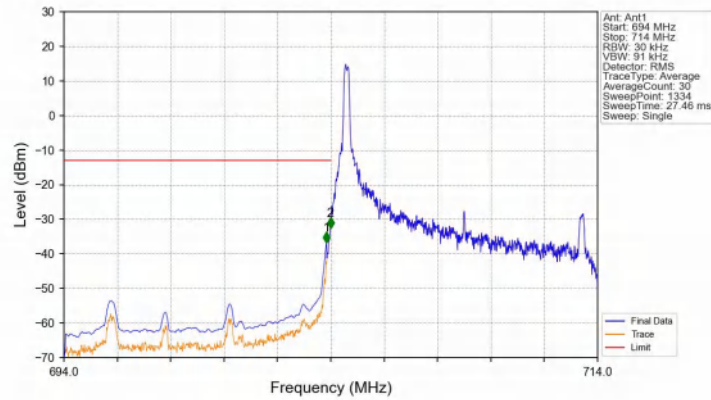
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



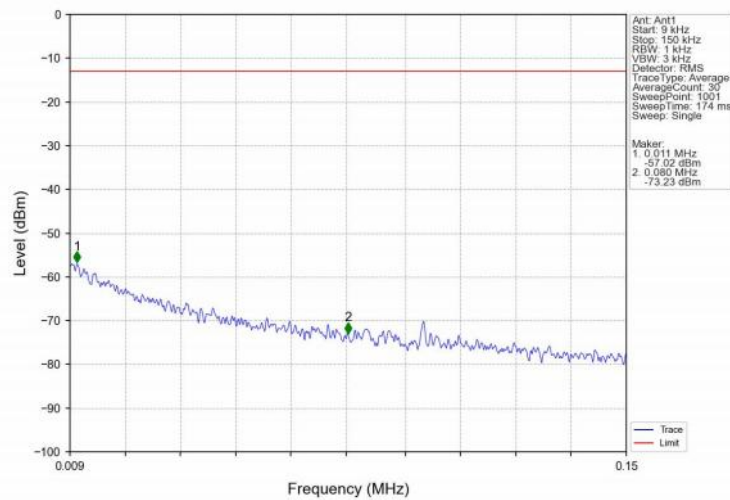
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-35.82	-13	Pass
716.1	721	0.1	CHP	2	716.540	-37.61	-13	Pass

6.2.2 B17_10MHz

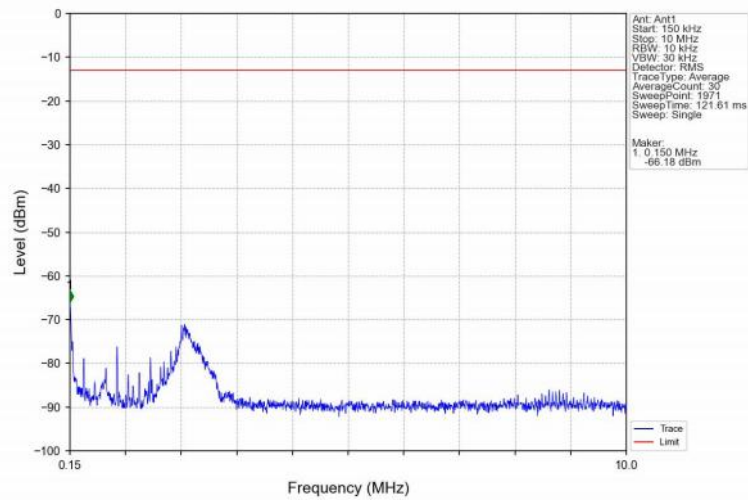
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



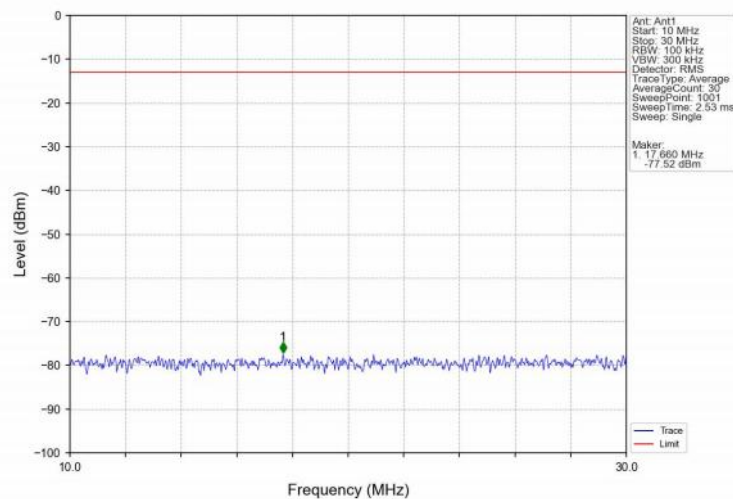
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



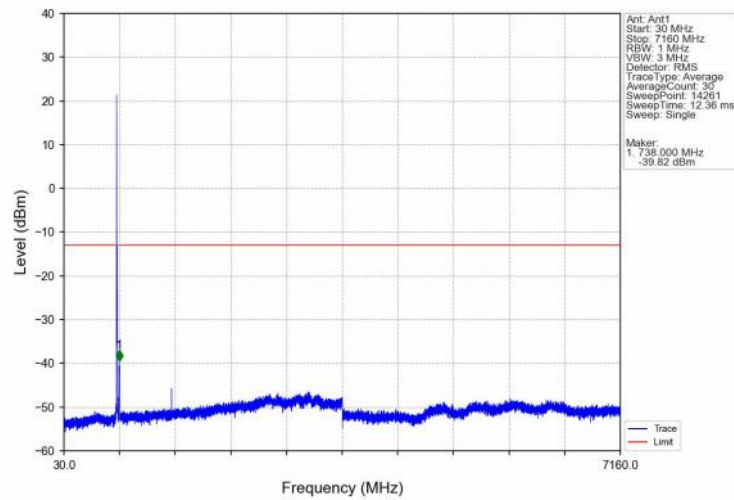
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



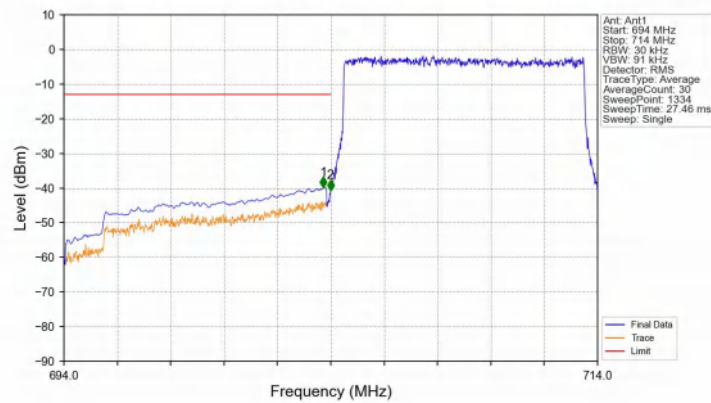
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

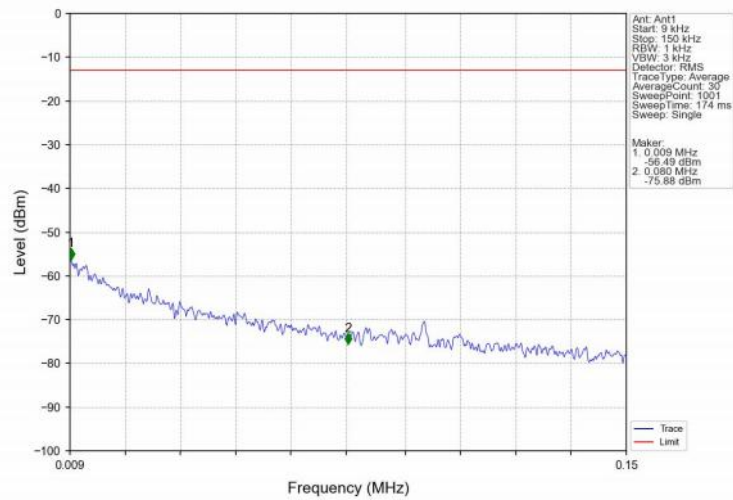


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

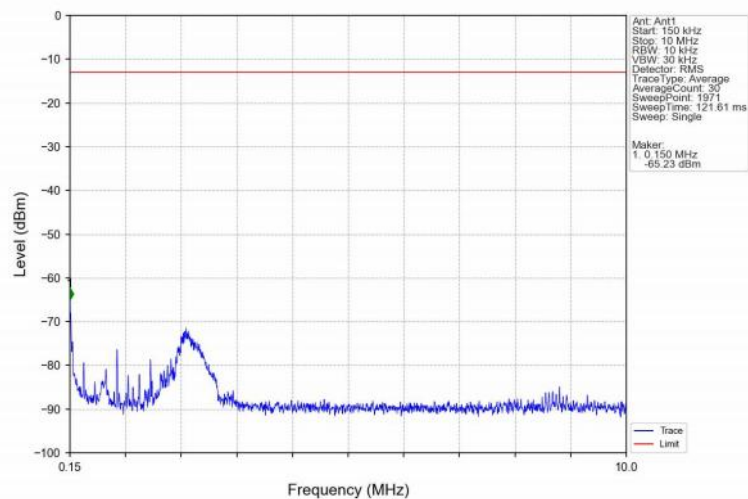


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.722	-39.85	-13	Pass
703.9	704	0.03	/	2	703.992	-40.68	-13	Pass
704	714	0.03	/	/	/	/	/	/

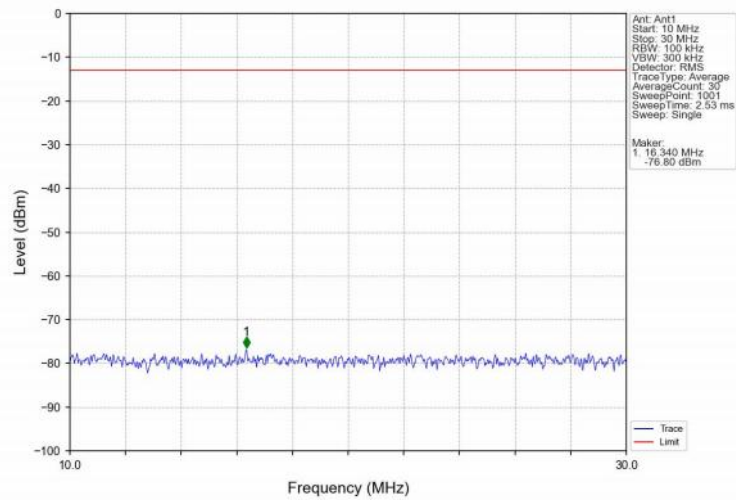
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



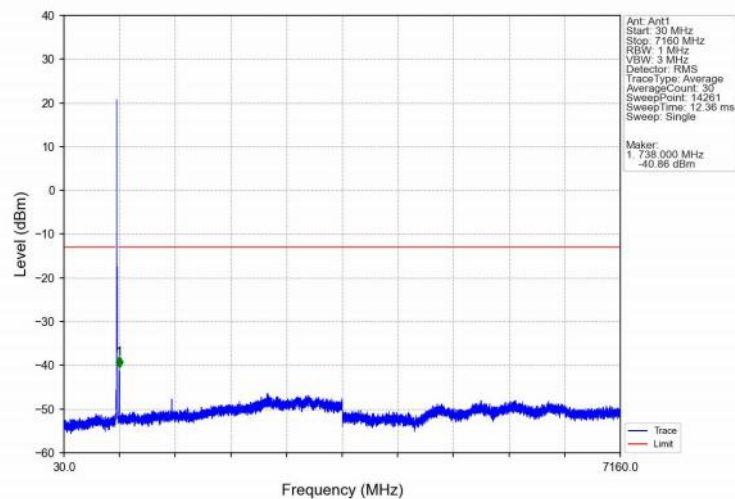
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



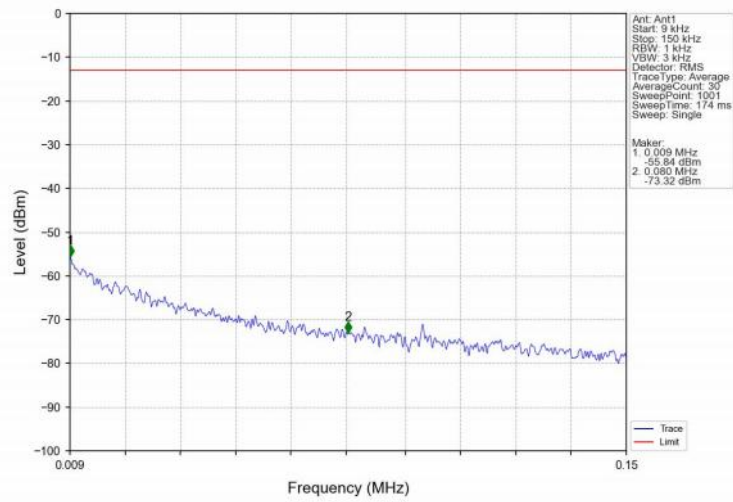
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



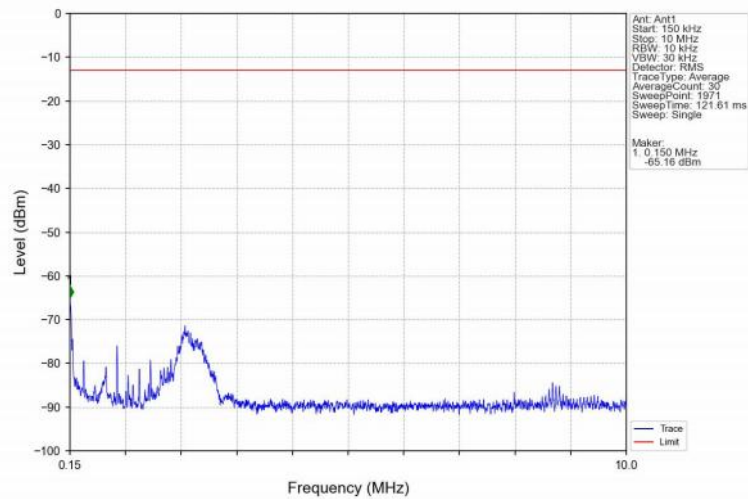
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



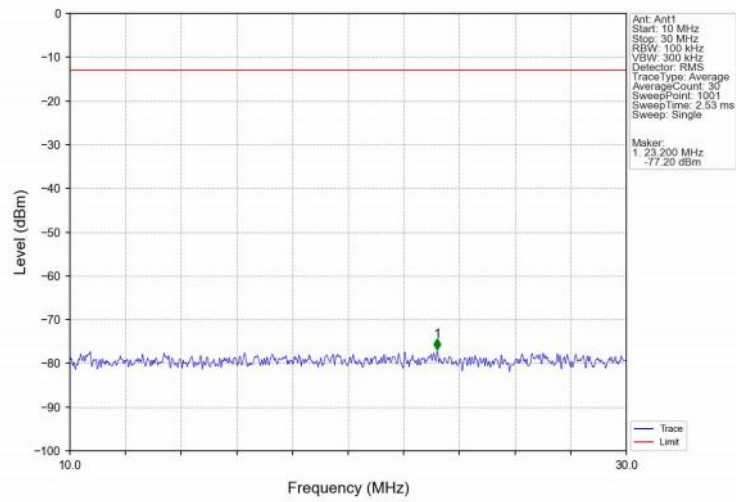
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



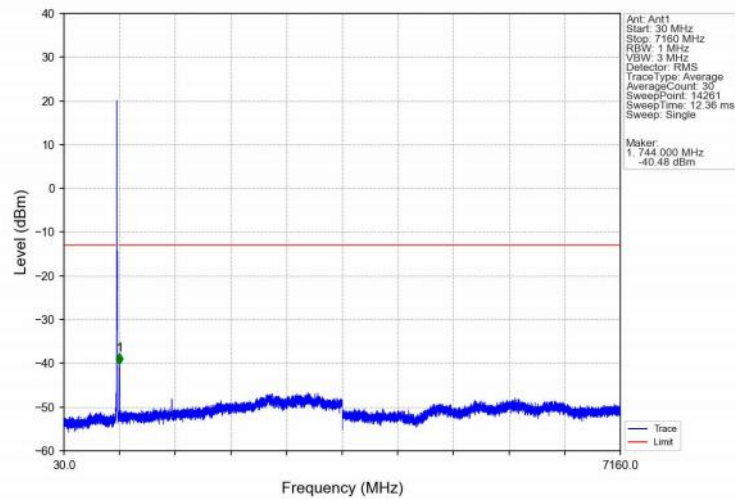
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



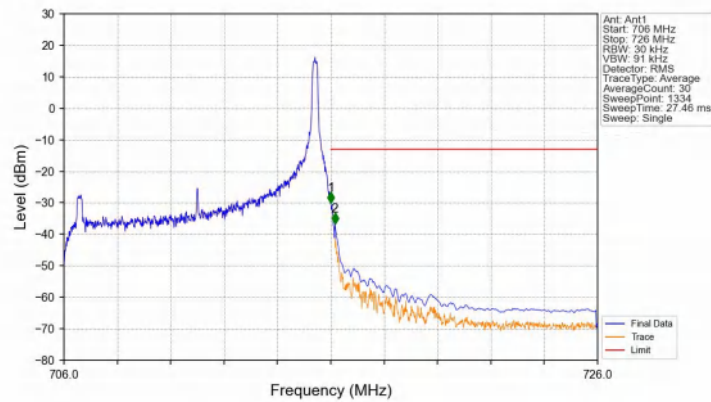
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

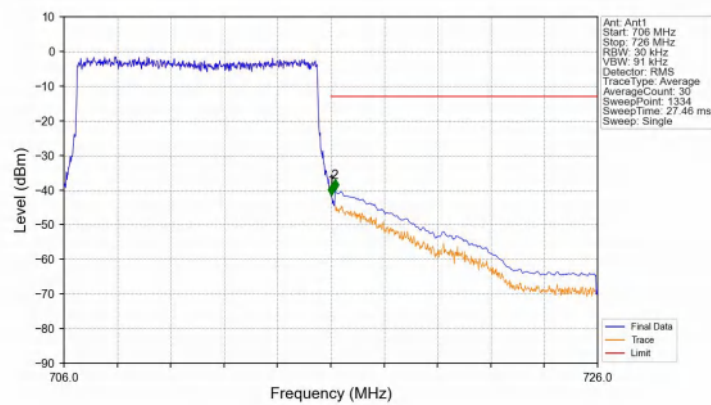


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



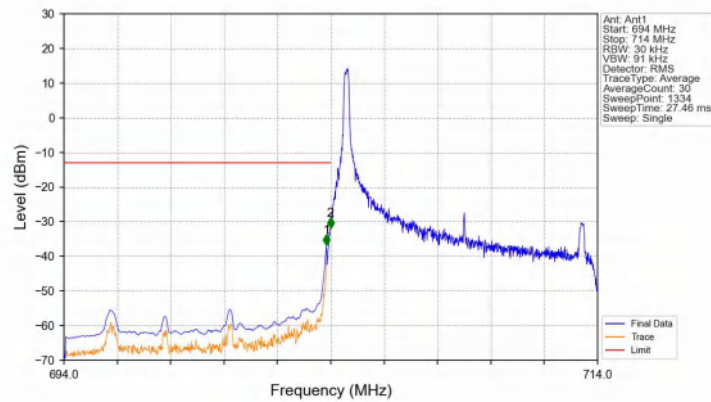
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-29.99	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.71	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



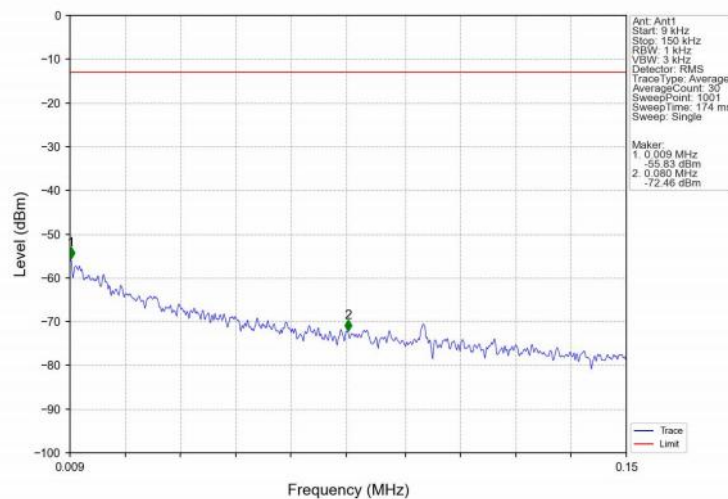
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-41.57	-13	Pass
716.1	726	0.1	CHP	2	716.158	-40.12	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

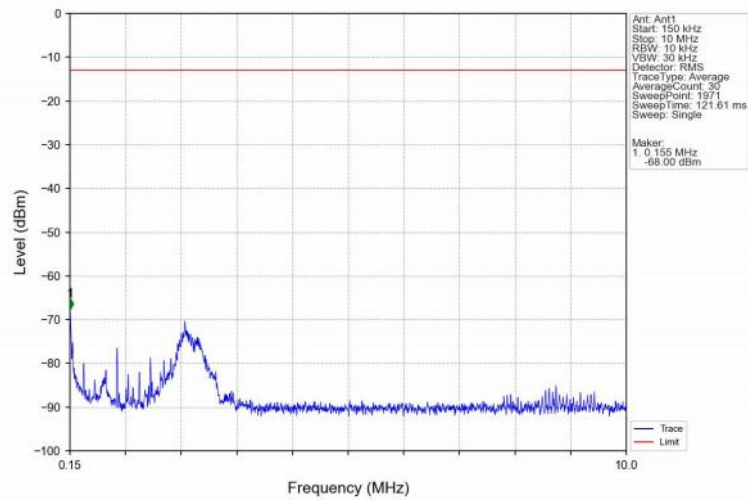


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-36.77	-13	Pass
703.9	704	0.03	/	2	703.992	-31.88	-13	Pass
704	714	0.03	/	/	/	/	/	/

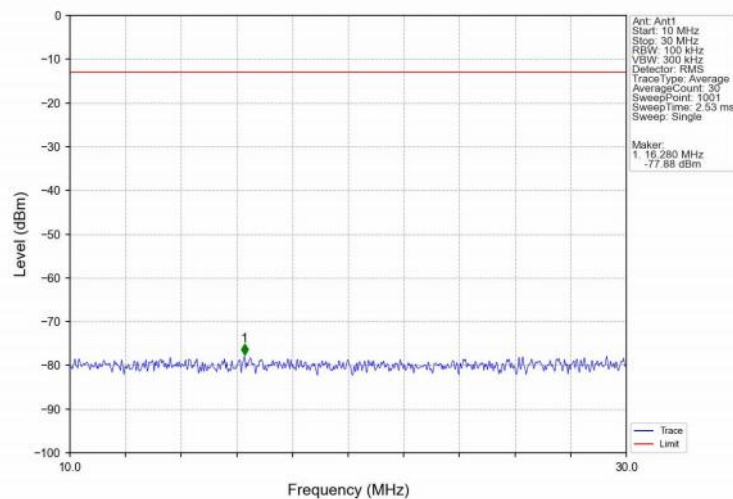
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



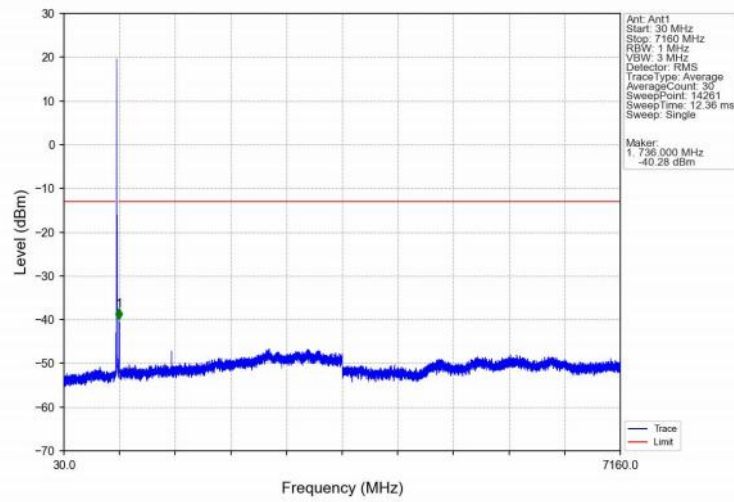
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



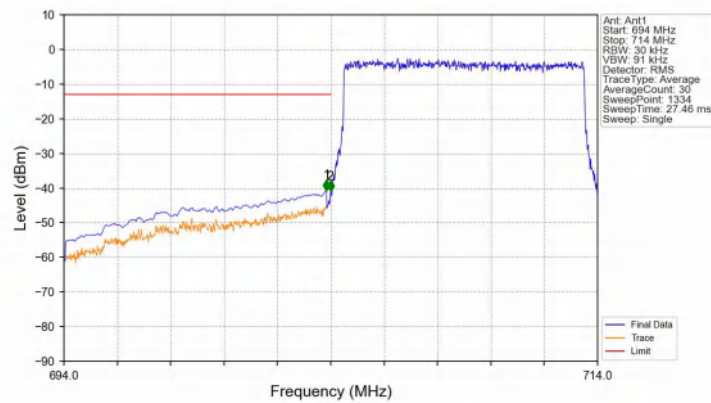
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

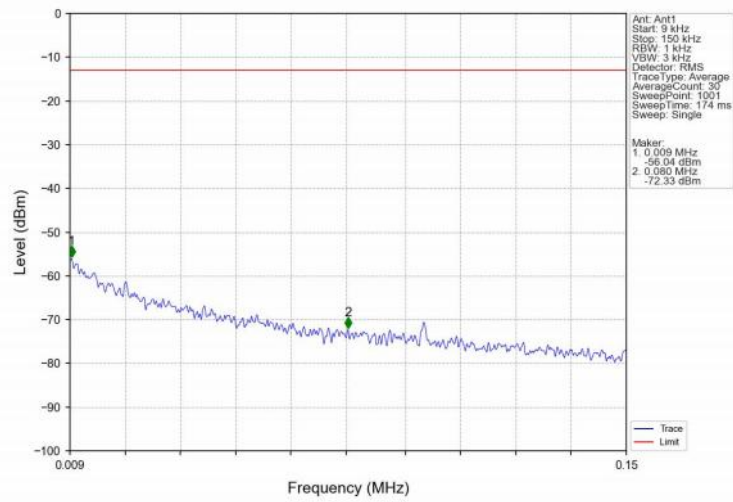


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

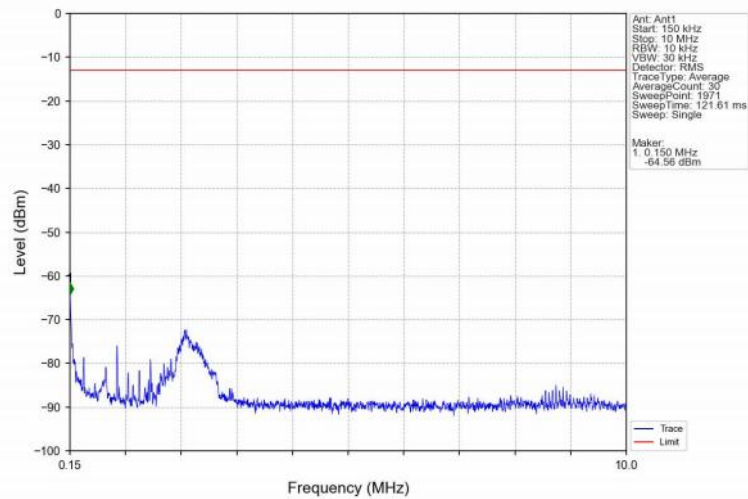


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-40.67	-13	Pass
703.9	704	0.03	/	2	703.992	-40.96	-13	Pass
704	714	0.03	/	/	/	/	/	/

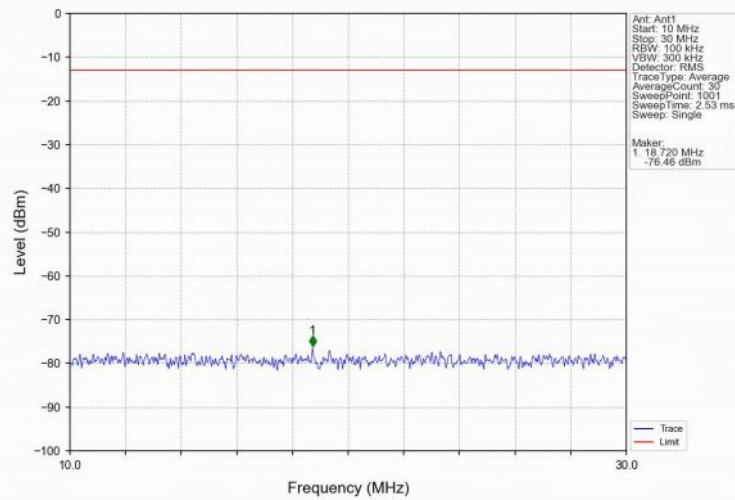
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



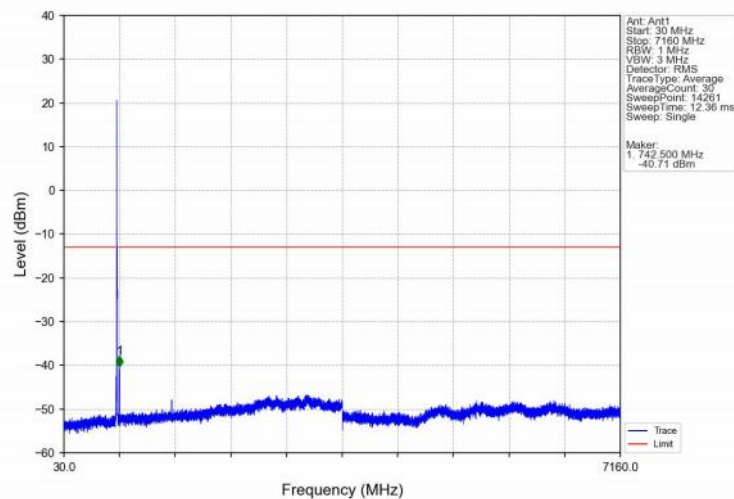
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



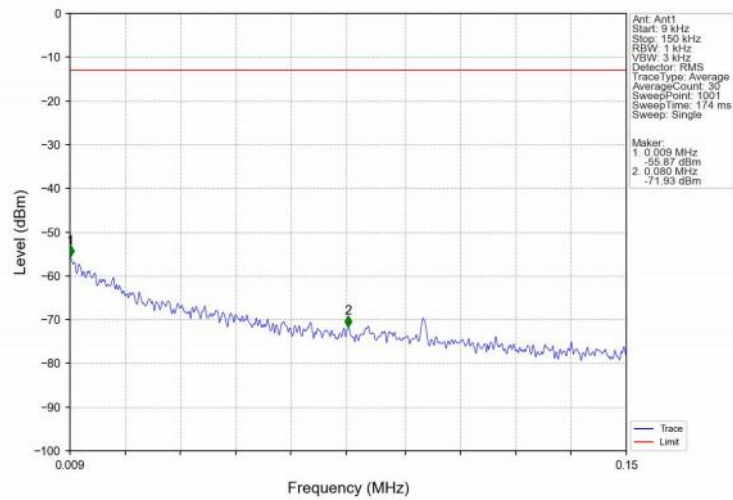
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



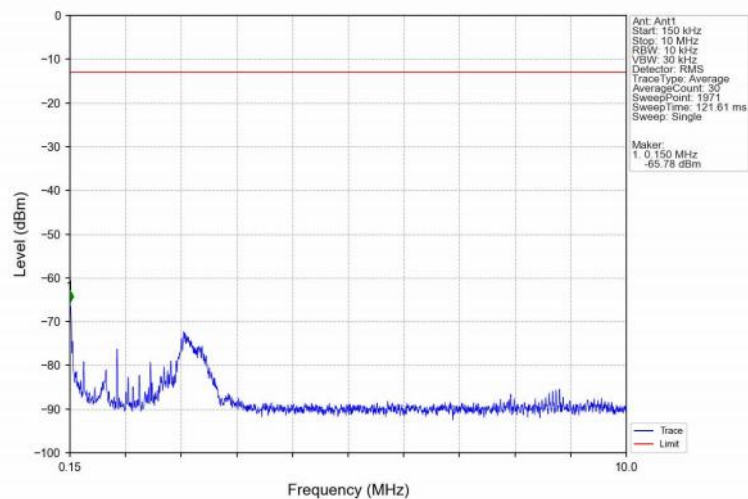
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



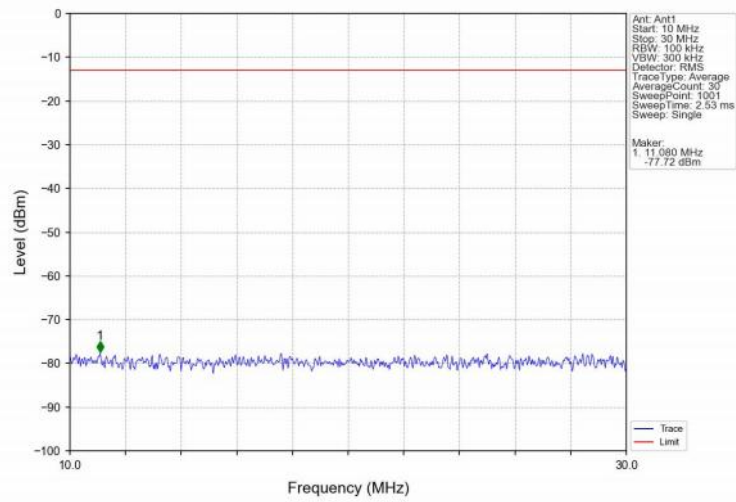
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



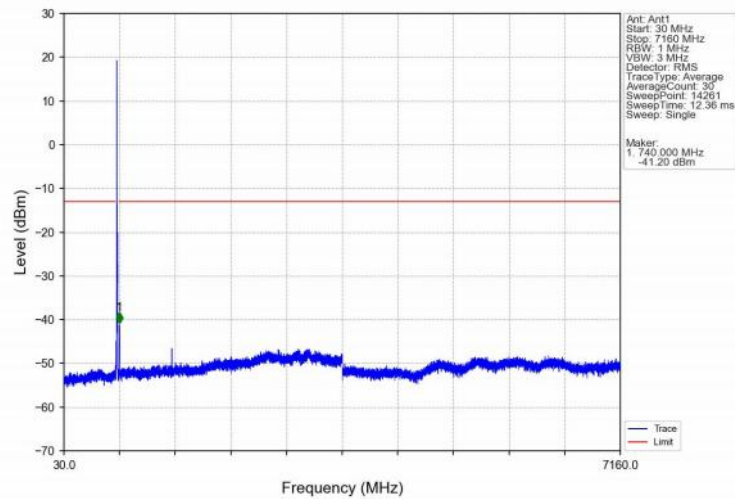
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



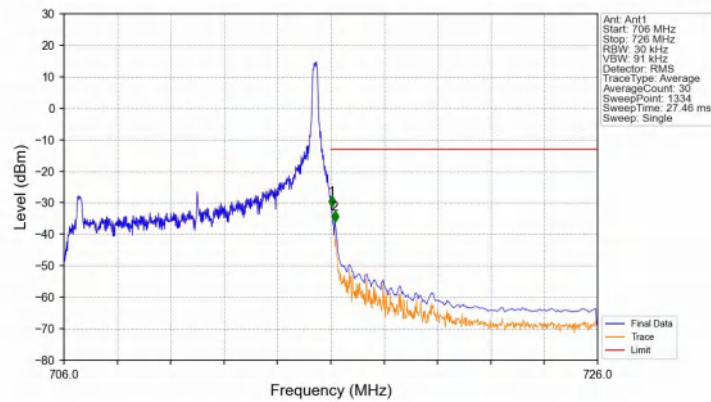
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

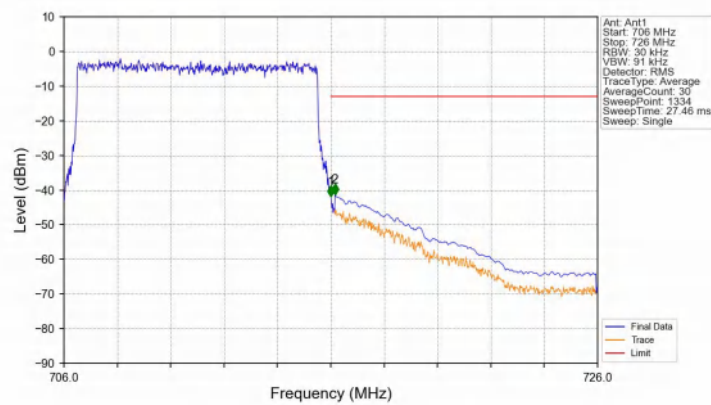


Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



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	716.038	-31.34	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.06	-13	Pass

Band17_10MHz_16QAM_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	716.008	-41.85	-13	Pass
716.1	726	0.1	CHP	2	716.158	-41.31	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.1950	0.0611	ppm	4M55G7D	27H	22.90
17	5	706.5	713.5	0.1807	0.0173	ppm	4M58W7D	27H	22.57
17	10	709	711	0.1995	0.0639	ppm	9M07G7D	27H	23.00
17	10	709	711	0.2128	0.0650	ppm	9M07W7D	27H	23.28

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.1089	0.0611	ppm	4M55G7D	27H	20.37
17	5	706.5	713.5	0.1009	0.0173	ppm	4M58W7D	27H	20.04
17	10	709	711	0.1114	0.0639	ppm	9M07G7D	27H	20.47
17	10	709	711	0.1189	0.0650	ppm	9M07W7D	27H	20.75