

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 / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	706.5	1	0	21.02	-2.26	16.61	<=34.77	Pass
			13	21.12	-2.26	16.71	<=34.77	Pass
			24	20.99	-2.26	16.58	<=34.77	Pass
		12	0	20.15	-2.26	15.74	<=34.77	Pass
			6	20.17	-2.26	15.76	<=34.77	Pass
			13	20.08	-2.26	15.67	<=34.77	Pass
		25	0	20.15	-2.26	15.74	<=34.77	Pass
	710	1	0	21.10	-2.26	16.69	<=34.77	Pass
			13	21.16	-2.26	16.75	<=34.77	Pass
			24	21.02	-2.26	16.61	<=34.77	Pass
		12	0	20.20	-2.26	15.79	<=34.77	Pass
			6	20.23	-2.26	15.82	<=34.77	Pass
			13	20.19	-2.26	15.78	<=34.77	Pass
		25	0	20.21	-2.26	15.80	<=34.77	Pass
	713.5	1	0	20.65	-2.26	16.24	<=34.77	Pass
			13	20.76	-2.26	16.35	<=34.77	Pass
			24	20.62	-2.26	16.21	<=34.77	Pass
		12	0	19.78	-2.26	15.37	<=34.77	Pass
			6	19.82	-2.26	15.41	<=34.77	Pass
			13	19.71	-2.26	15.30	<=34.77	Pass
		25	0	19.74	-2.26	15.33	<=34.77	Pass
16QAM	706.5	1	0	19.96	-2.26	15.55	<=34.77	Pass
			13	20.06	-2.26	15.65	<=34.77	Pass
			24	19.92	-2.26	15.51	<=34.77	Pass
		12	0	19.12	-2.26	14.71	<=34.77	Pass
			6	19.17	-2.26	14.76	<=34.77	Pass
			13	19.12	-2.26	14.71	<=34.77	Pass
		25	0	19.16	-2.26	14.75	<=34.77	Pass
	710	1	0	20.22	-2.26	15.81	<=34.77	Pass
			13	20.30	-2.26	15.89	<=34.77	Pass
			24	20.20	-2.26	15.79	<=34.77	Pass
		12	0	19.20	-2.26	14.79	<=34.77	Pass
			6	19.22	-2.26	14.81	<=34.77	Pass
			13	19.20	-2.26	14.79	<=34.77	Pass
		25	0	19.23	-2.26	14.82	<=34.77	Pass
	713.5	1	0	19.96	-2.26	15.55	<=34.77	Pass
			13	20.06	-2.26	15.65	<=34.77	Pass
			24	19.95	-2.26	15.54	<=34.77	Pass
		12	0	18.77	-2.26	14.36	<=34.77	Pass
			6	18.86	-2.26	14.45	<=34.77	Pass
			13	18.75	-2.26	14.34	<=34.77	Pass
		25	0	18.77	-2.26	14.36	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTNV								
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BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

<http://www.btf-lab.com>

Version: 1/00

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	20.38	-2.26	15.97	<=34.77	Pass
			25	20.57	-2.26	16.16	<=34.77	Pass
			49	20.31	-2.26	15.90	<=34.77	Pass
		25	0	19.39	-2.26	14.98	<=34.77	Pass
			13	19.44	-2.26	15.03	<=34.77	Pass
			25	19.42	-2.26	15.01	<=34.77	Pass
		50	0	19.45	-2.26	15.04	<=34.77	Pass
	710	1	0	20.68	-2.26	16.27	<=34.77	Pass
			25	20.83	-2.26	16.42	<=34.77	Pass
			49	20.63	-2.26	16.22	<=34.77	Pass
		25	0	19.77	-2.26	15.36	<=34.77	Pass
			13	19.81	-2.26	15.40	<=34.77	Pass
			25	19.71	-2.26	15.30	<=34.77	Pass
		50	0	19.74	-2.26	15.33	<=34.77	Pass
	711	1	0	20.58	-2.26	16.17	<=34.77	Pass
			25	20.69	-2.26	16.28	<=34.77	Pass
			49	20.54	-2.26	16.13	<=34.77	Pass
		25	0	19.71	-2.26	15.30	<=34.77	Pass
			13	19.67	-2.26	15.26	<=34.77	Pass
			25	19.59	-2.26	15.18	<=34.77	Pass
		50	0	19.67	-2.26	15.26	<=34.77	Pass
16QAM	709	1	0	19.51	-2.26	15.10	<=34.77	Pass
			25	19.61	-2.26	15.20	<=34.77	Pass
			49	19.39	-2.26	14.98	<=34.77	Pass
		25	0	18.49	-2.26	14.08	<=34.77	Pass
			13	18.56	-2.26	14.15	<=34.77	Pass
			25	18.52	-2.26	14.11	<=34.77	Pass
		50	0	18.46	-2.26	14.05	<=34.77	Pass
	710	1	0	19.94	-2.26	15.53	<=34.77	Pass
			25	20.06	-2.26	15.65	<=34.77	Pass
			49	19.84	-2.26	15.43	<=34.77	Pass
		25	0	18.81	-2.26	14.40	<=34.77	Pass
			13	18.85	-2.26	14.44	<=34.77	Pass
			25	18.75	-2.26	14.34	<=34.77	Pass
		50	0	18.77	-2.26	14.36	<=34.77	Pass
	711	1	0	20.21	-2.26	15.80	<=34.77	Pass
			25	20.31	-2.26	15.90	<=34.77	Pass
			49	20.12	-2.26	15.71	<=34.77	Pass
		25	0	18.79	-2.26	14.38	<=34.77	Pass
			13	18.74	-2.26	14.33	<=34.77	Pass
			25	18.66	-2.26	14.25	<=34.77	Pass
		50	0	18.70	-2.26	14.29	<=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 (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	706.5	25	0	20	3.27	-7.253	-0.0103	-2.5 to 2.5	Pass
					3.85	-6.094	-0.0086	-2.5 to 2.5	Pass
					4.43	-7.982	-0.0113	-2.5 to 2.5	Pass

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Version: 1/00

16QAM	710	25	0	-30	3.85	-6.952	-0.0098	-2.5 to 2.5	Pass
				-20	3.85	-6.723	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-8.183	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-5.937	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-3.877	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-5.651	-0.0080	-2.5 to 2.5	Pass
				40	3.85	-5.865	-0.0083	-2.5 to 2.5	Pass
				50	3.85	-7.410	-0.0105	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-4.950	-0.0070	-2.5 to 2.5	Pass
					3.85	-8.497	-0.0120	-2.5 to 2.5	Pass
					4.43	-4.005	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-6.022	-0.0085	-2.5 to 2.5	Pass
				-20	3.85	-8.869	-0.0125	-2.5 to 2.5	Pass
				-10	3.85	-3.991	-0.0056	-2.5 to 2.5	Pass
				0	3.85	-8.168	-0.0115	-2.5 to 2.5	Pass
				10	3.85	-6.080	-0.0086	-2.5 to 2.5	Pass
				30	3.85	-3.834	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-4.849	-0.0068	-2.5 to 2.5	Pass
				50	3.85	-8.526	-0.0120	-2.5 to 2.5	Pass
				20	3.27	-8.340	-0.0117	-2.5 to 2.5	Pass
					3.85	-10.300	-0.0144	-2.5 to 2.5	Pass
					4.43	-7.868	-0.0110	-2.5 to 2.5	Pass
	706.5	25	0	-30	3.85	-5.665	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-8.841	-0.0124	-2.5 to 2.5	Pass
				-10	3.85	-6.423	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-8.769	-0.0123	-2.5 to 2.5	Pass
				10	3.85	-8.998	-0.0126	-2.5 to 2.5	Pass
				30	3.85	-2.990	-0.0042	-2.5 to 2.5	Pass
				40	3.85	-5.221	-0.0073	-2.5 to 2.5	Pass
				50	3.85	-7.553	-0.0106	-2.5 to 2.5	Pass
				20	3.27	-7.496	-0.0106	-2.5 to 2.5	Pass
					3.85	-7.310	-0.0103	-2.5 to 2.5	Pass
					4.43	-10.257	-0.0145	-2.5 to 2.5	Pass
	710	25	0	-30	3.85	-3.591	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-5.851	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-4.807	-0.0068	-2.5 to 2.5	Pass
				0	3.85	-9.942	-0.0141	-2.5 to 2.5	Pass
				10	3.85	-4.749	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-6.309	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-9.241	-0.0131	-2.5 to 2.5	Pass
				50	3.85	-3.390	-0.0048	-2.5 to 2.5	Pass
				20	3.27	-4.735	-0.0067	-2.5 to 2.5	Pass
					3.85	-3.147	-0.0044	-2.5 to 2.5	Pass
					4.43	-4.520	-0.0064	-2.5 to 2.5	Pass
	713.5	25	0	-30	3.85	-6.938	-0.0098	-2.5 to 2.5	Pass
				-20	3.85	-3.591	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-7.453	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-2.947	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-4.563	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-3.304	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-9.670	-0.0136	-2.5 to 2.5	Pass
				20	3.27	-8.283	-0.0116	-2.5 to 2.5	Pass
					3.85	-6.952	-0.0097	-2.5 to 2.5	Pass
					4.43	-7.582	-0.0106	-2.5 to 2.5	Pass
				-30	3.85	-6.809	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-5.064	-0.0071	-2.5 to 2.5	Pass
				-10	3.85	-4.148	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-11.644	-0.0163	-2.5 to 2.5	Pass

				10	3.85	-7.396	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-7.467	-0.0105	-2.5 to 2.5	Pass
				40	3.85	-5.608	-0.0079	-2.5 to 2.5	Pass
				50	3.85	-8.740	-0.0122	-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	-5.879	-0.0083	-2.5 to 2.5	Pass
					3.85	-5.093	-0.0072	-2.5 to 2.5	Pass
					4.43	-5.836	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-9.642	-0.0136	-2.5 to 2.5	Pass
				-20	3.85	-7.052	-0.0099	-2.5 to 2.5	Pass
				-10	3.85	-7.911	-0.0112	-2.5 to 2.5	Pass
				0	3.85	-10.400	-0.0147	-2.5 to 2.5	Pass
				10	3.85	-6.866	-0.0097	-2.5 to 2.5	Pass
				30	3.85	-8.798	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-4.807	-0.0068	-2.5 to 2.5	Pass
				50	3.85	-6.223	-0.0088	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-7.424	-0.0105	-2.5 to 2.5	Pass
					3.85	-5.980	-0.0084	-2.5 to 2.5	Pass
					4.43	-4.778	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-9.727	-0.0137	-2.5 to 2.5	Pass
				-20	3.85	-8.712	-0.0123	-2.5 to 2.5	Pass
				-10	3.85	-10.400	-0.0146	-2.5 to 2.5	Pass
				0	3.85	-8.125	-0.0114	-2.5 to 2.5	Pass
				10	3.85	-5.994	-0.0084	-2.5 to 2.5	Pass
				30	3.85	-8.626	-0.0121	-2.5 to 2.5	Pass
				40	3.85	-8.411	-0.0118	-2.5 to 2.5	Pass
				50	3.85	-5.465	-0.0077	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-6.380	-0.0090	-2.5 to 2.5	Pass
					3.85	-7.768	-0.0109	-2.5 to 2.5	Pass
					4.43	-7.682	-0.0108	-2.5 to 2.5	Pass
				-30	3.85	-8.569	-0.0121	-2.5 to 2.5	Pass
				-20	3.85	-7.024	-0.0099	-2.5 to 2.5	Pass
				-10	3.85	-5.937	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-7.038	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-9.613	-0.0135	-2.5 to 2.5	Pass
				30	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
				40	3.85	-5.822	-0.0082	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.27	-5.322	-0.0075	-2.5 to 2.5	Pass
					3.85	-2.947	-0.0042	-2.5 to 2.5	Pass
					4.43	-5.007	-0.0071	-2.5 to 2.5	Pass
				-30	3.85	-5.279	-0.0074	-2.5 to 2.5	Pass
				-20	3.85	-6.938	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-6.180	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-8.497	-0.0120	-2.5 to 2.5	Pass
				10	3.85	-4.349	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-4.535	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-4.964	-0.0070	-2.5 to 2.5	Pass
				50	3.85	-3.362	-0.0047	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-7.997	-0.0113	-2.5 to 2.5	Pass
					3.85	-5.751	-0.0081	-2.5 to 2.5	Pass
					4.43	-5.836	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-4.749	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass

				-10	3.85	-4.191	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-2.217	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-4.563	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-5.407	-0.0076	-2.5 to 2.5	Pass
				40	3.85	-9.155	-0.0129	-2.5 to 2.5	Pass
				50	3.85	-7.453	-0.0105	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-7.854	-0.0110	-2.5 to 2.5	Pass
					3.85	-6.752	-0.0095	-2.5 to 2.5	Pass
					4.43	-8.297	-0.0117	-2.5 to 2.5	Pass
				-30	3.85	-9.570	-0.0135	-2.5 to 2.5	Pass
				-20	3.85	-5.307	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-5.307	-0.0075	-2.5 to 2.5	Pass
				0	3.85	-5.593	-0.0079	-2.5 to 2.5	Pass
				10	3.85	-7.267	-0.0102	-2.5 to 2.5	Pass
				30	3.85	-7.353	-0.0103	-2.5 to 2.5	Pass
				40	3.85	-5.479	-0.0077	-2.5 to 2.5	Pass
				50	3.85	-4.034	-0.0057	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

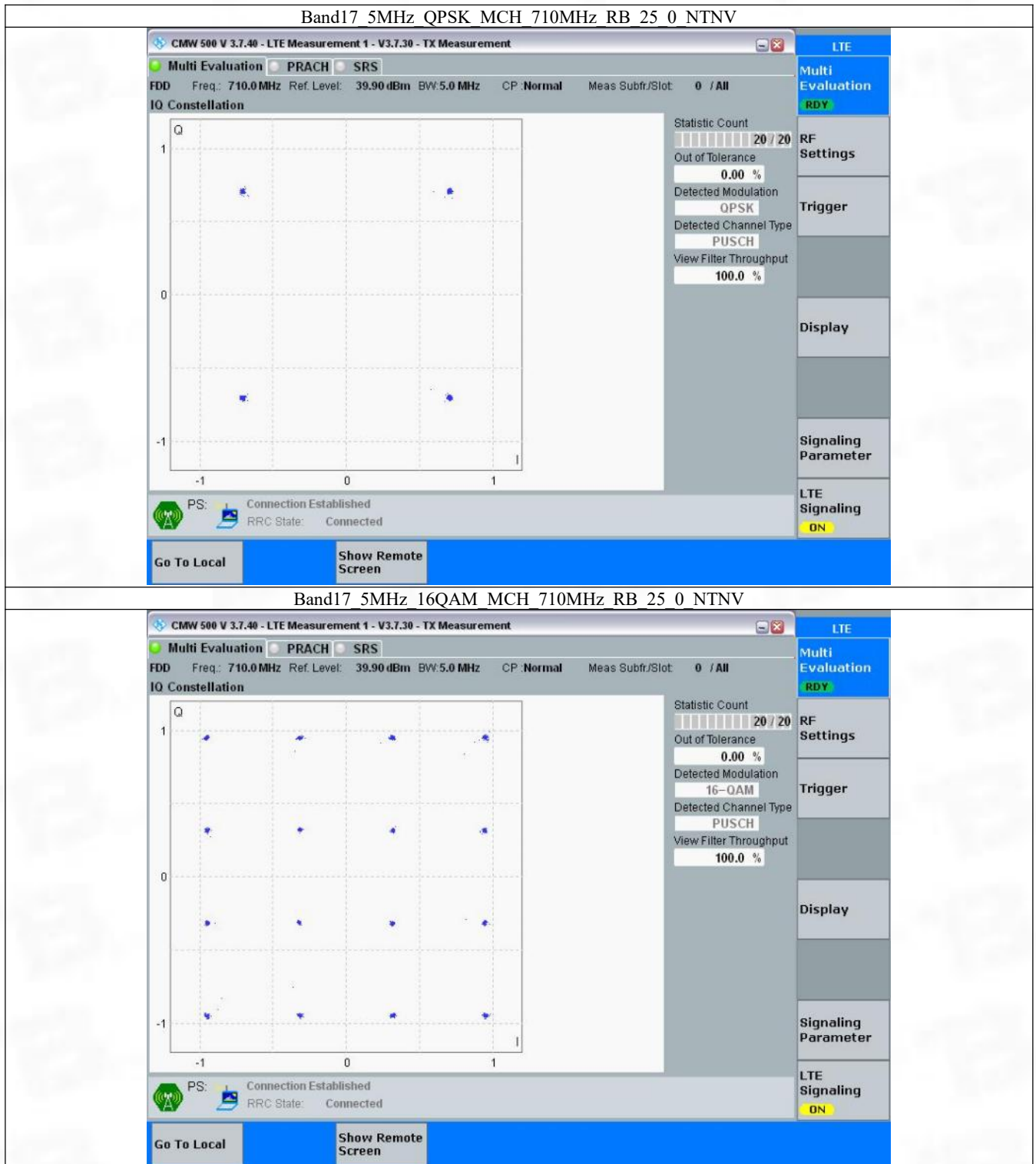
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

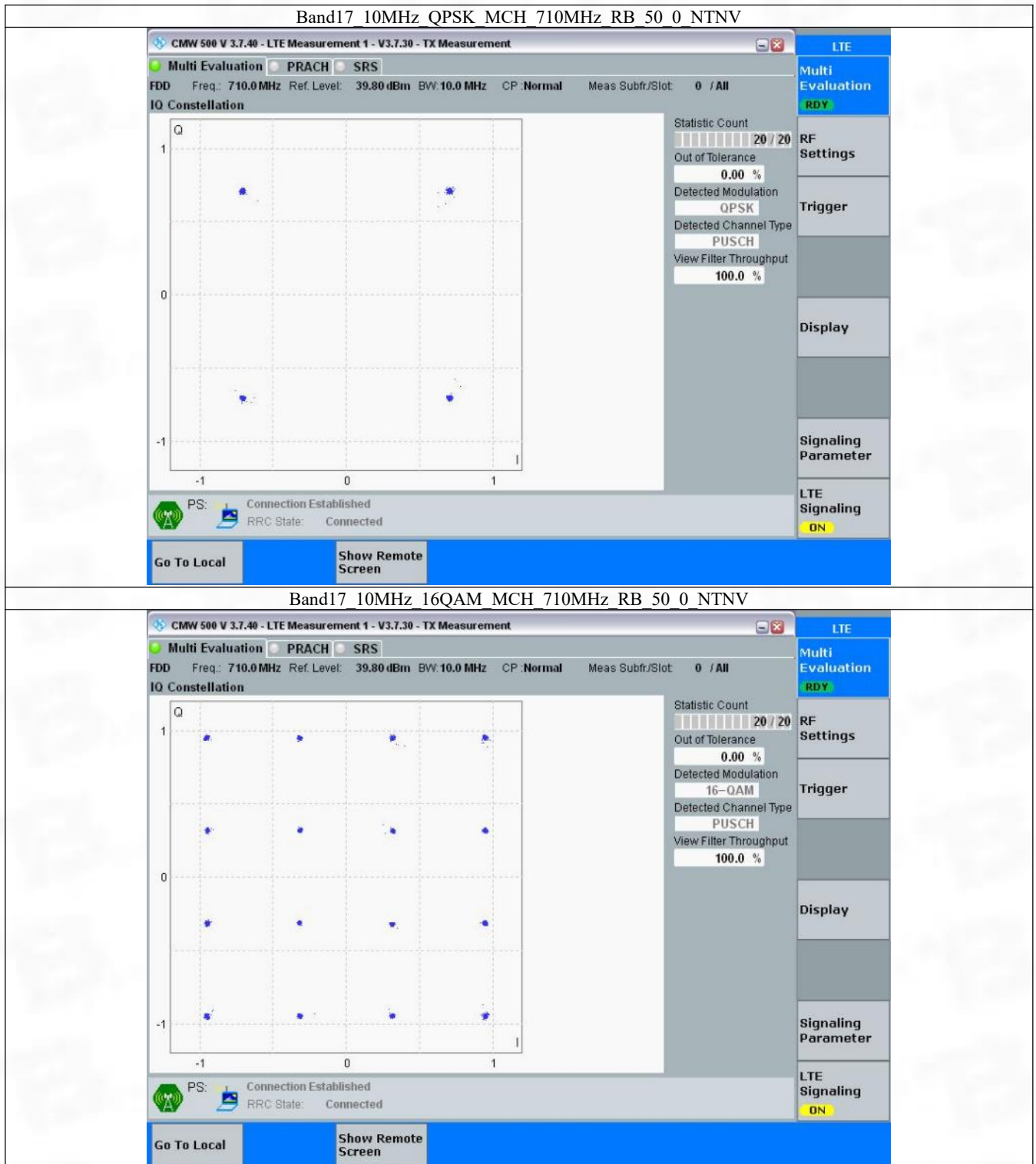
Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

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

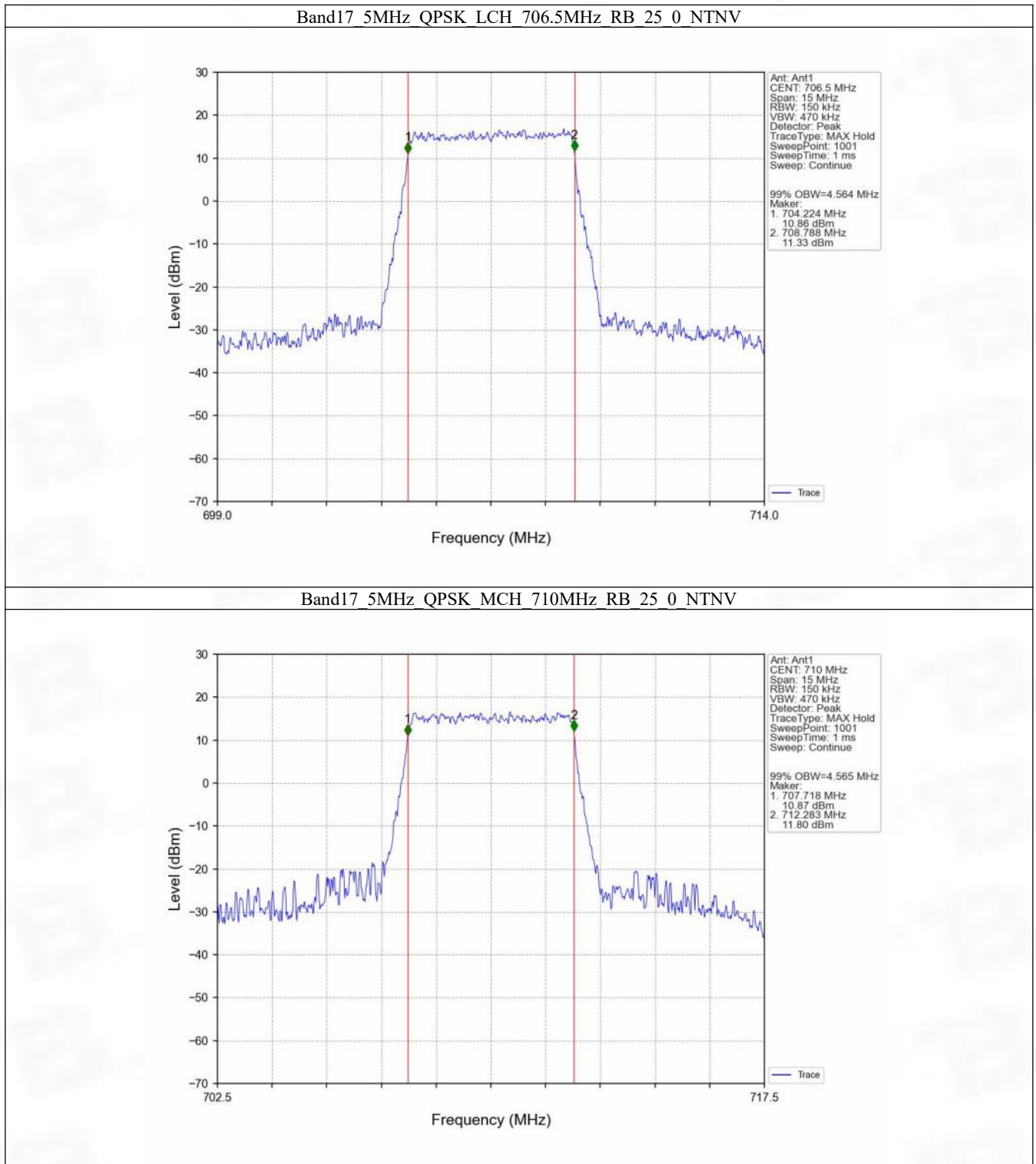
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.564	/	Pass
		710	25	0	4.565	/	Pass
		713.5	25	0	4.577	/	Pass
	16QAM	706.5	25	0	4.595	/	Pass
		710	25	0	4.597	/	Pass
		713.5	25	0	4.555	/	Pass
10	QPSK	709	50	0	9.080	/	Pass
		710	50	0	9.039	/	Pass
		711	50	0	9.056	/	Pass
	16QAM	709	50	0	9.066	/	Pass
		710	50	0	9.056	/	Pass
		711	50	0	9.060	/	Pass

4.1.2 Band17_XDB

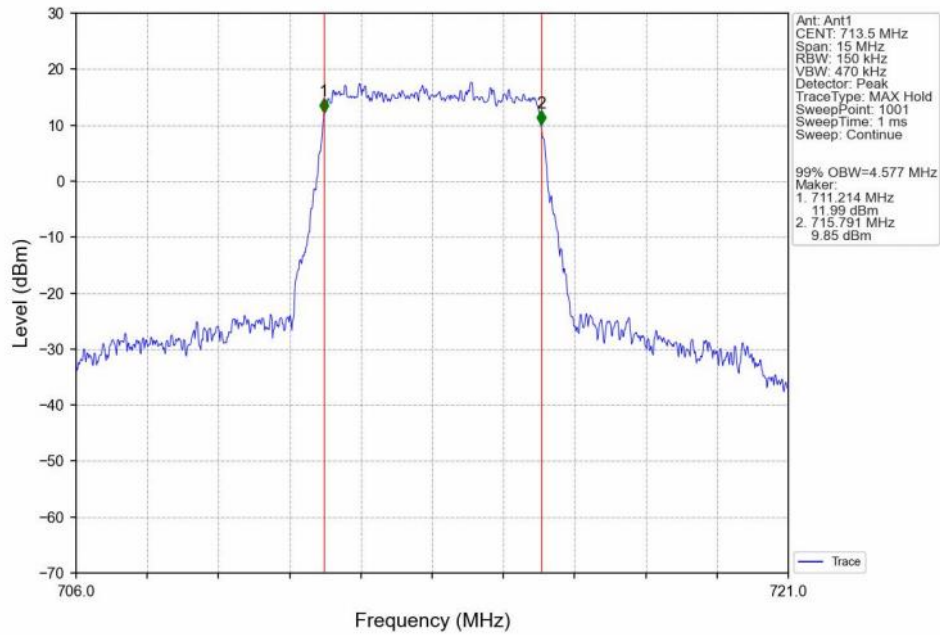
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.269	/	Pass
		710	25	0	5.288	/	Pass
		713.5	25	0	5.198	/	Pass
	16QAM	706.5	25	0	5.342	/	Pass
		710	25	0	5.278	/	Pass
		713.5	25	0	5.228	/	Pass
10	QPSK	709	50	0	10.249	/	Pass
		710	50	0	10.205	/	Pass
		711	50	0	10.386	/	Pass
	16QAM	709	50	0	10.385	/	Pass
		710	50	0	10.278	/	Pass
		711	50	0	10.241	/	Pass

4.2 Test Graph

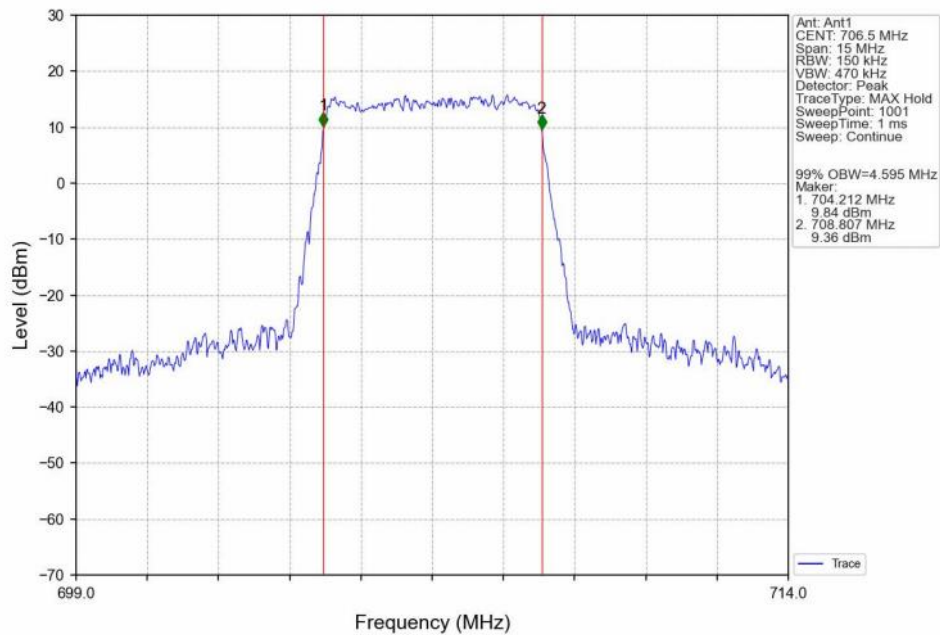
4.2.1 Band17_OBW



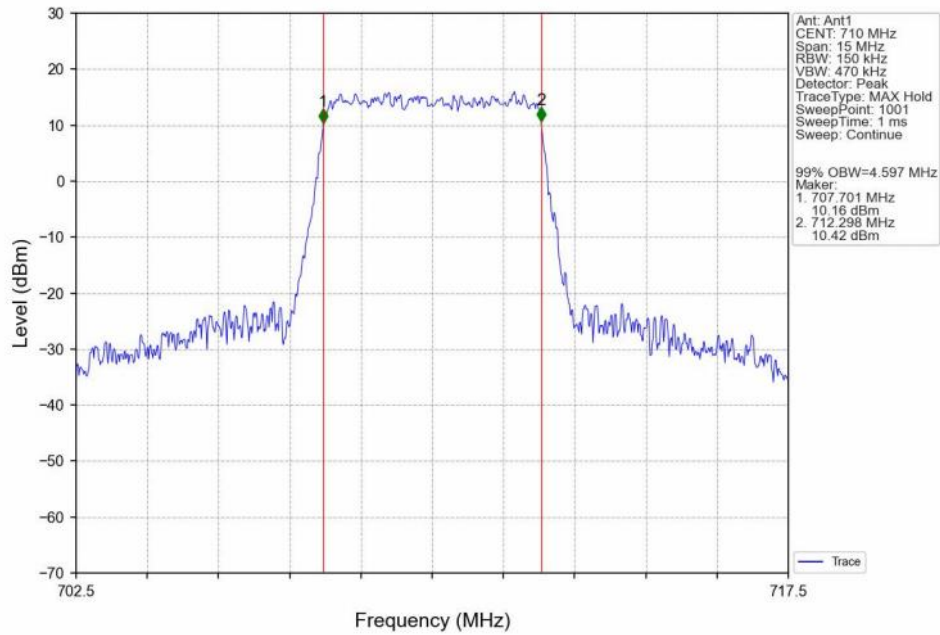
Band17 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



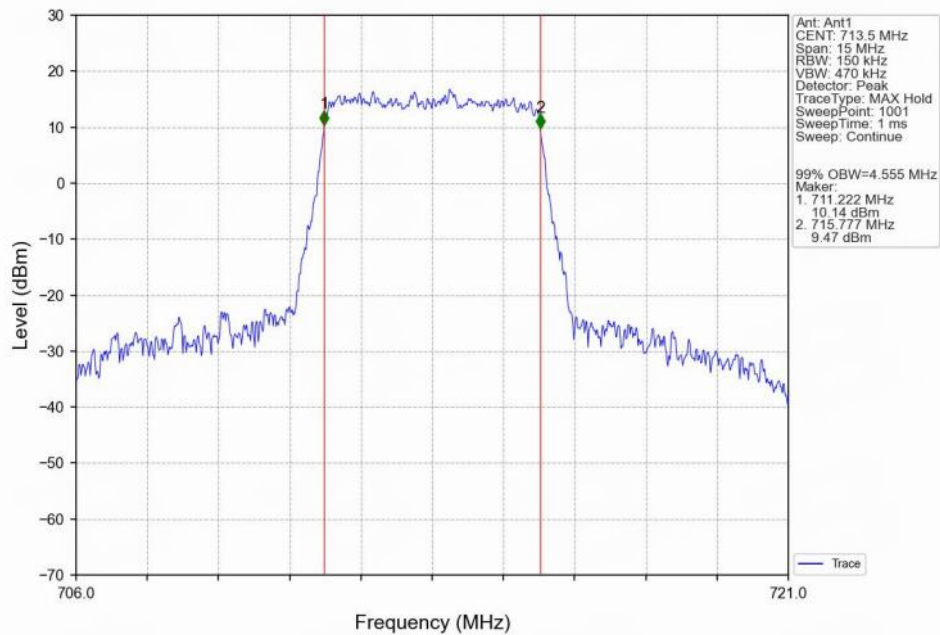
Band17 5MHz 16QAM LCH 706.5MHz RB 25 0 NTNV



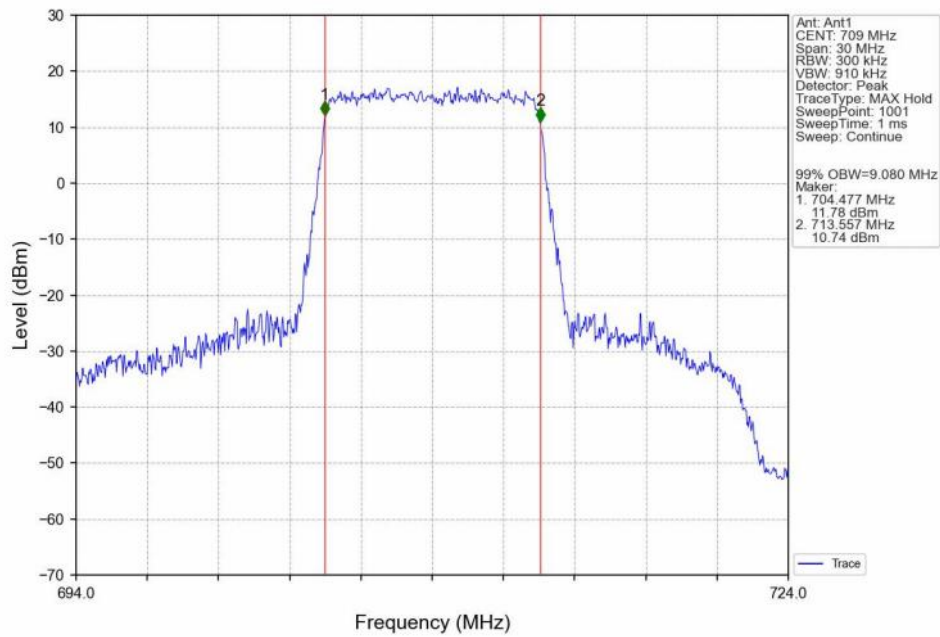
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



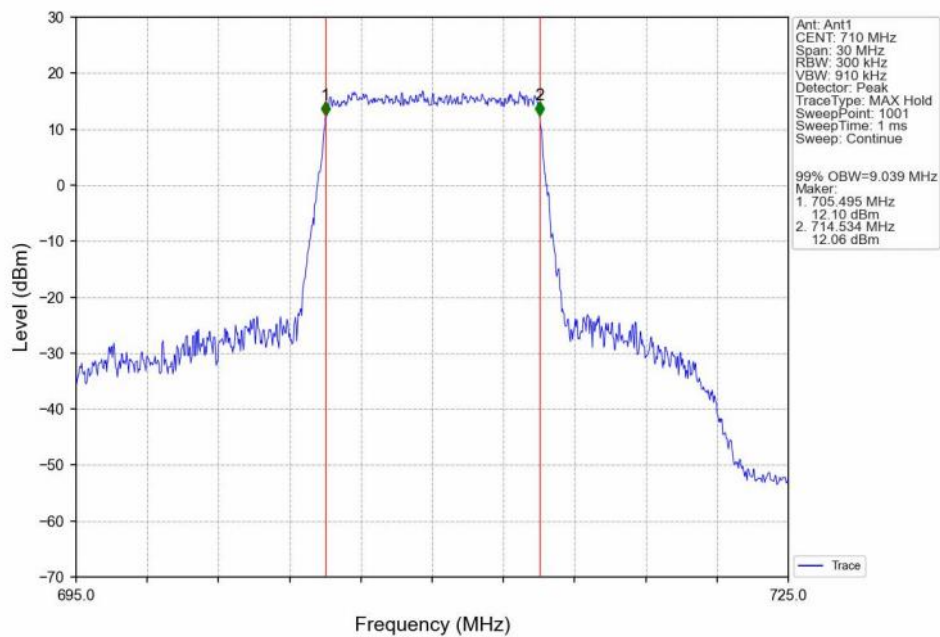
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



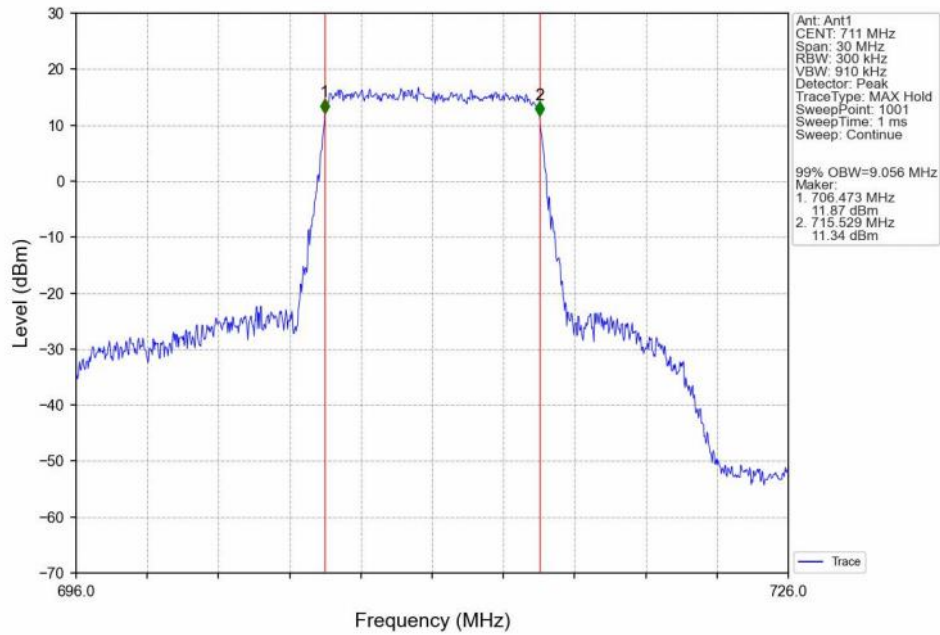
Band17 10MHz QPSK LCH 709MHz RB 50 0 NTNV



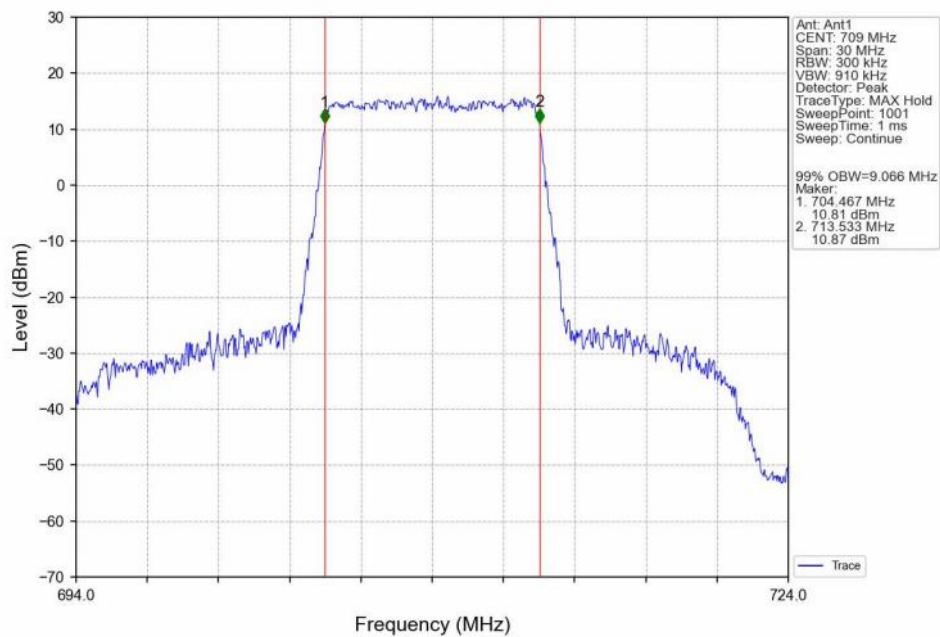
Band17 10MHz QPSK MCH 710MHz RB 50 0 NTNV



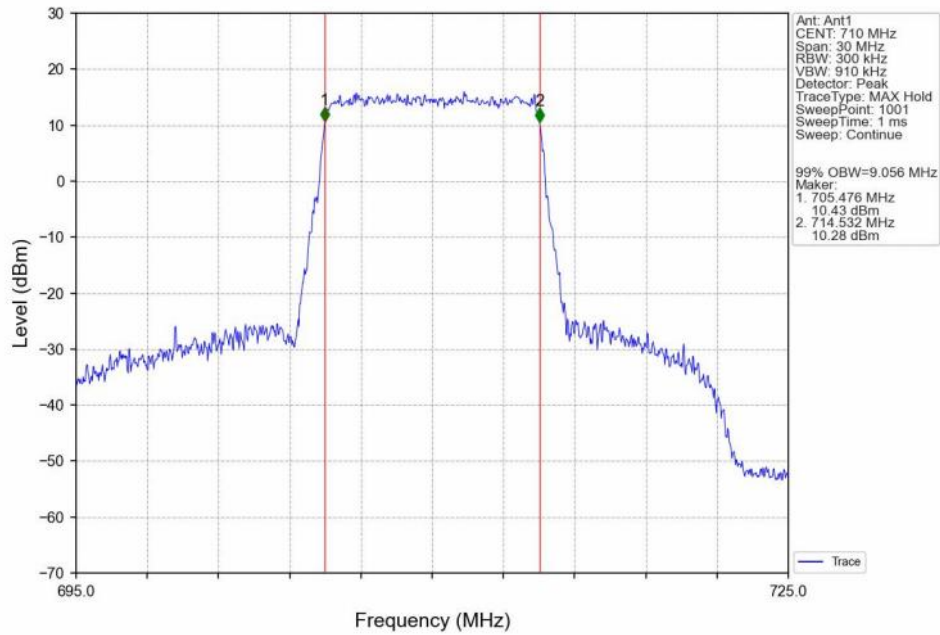
Band17 10MHz QPSK HCH 711MHz RB 50 0 NTNV



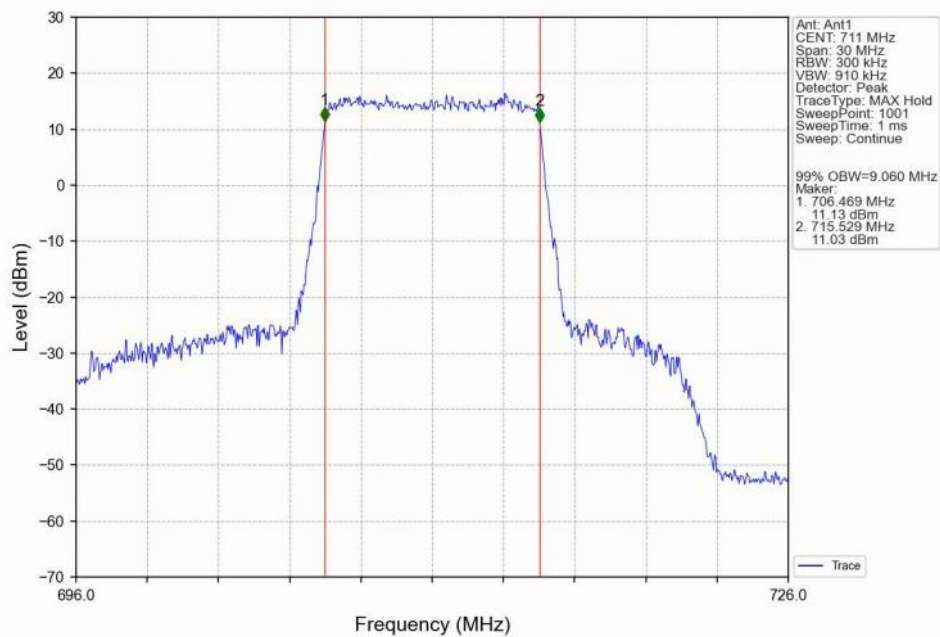
Band17 10MHz 16QAM LCH 709MHz RB 50 0 NTNV



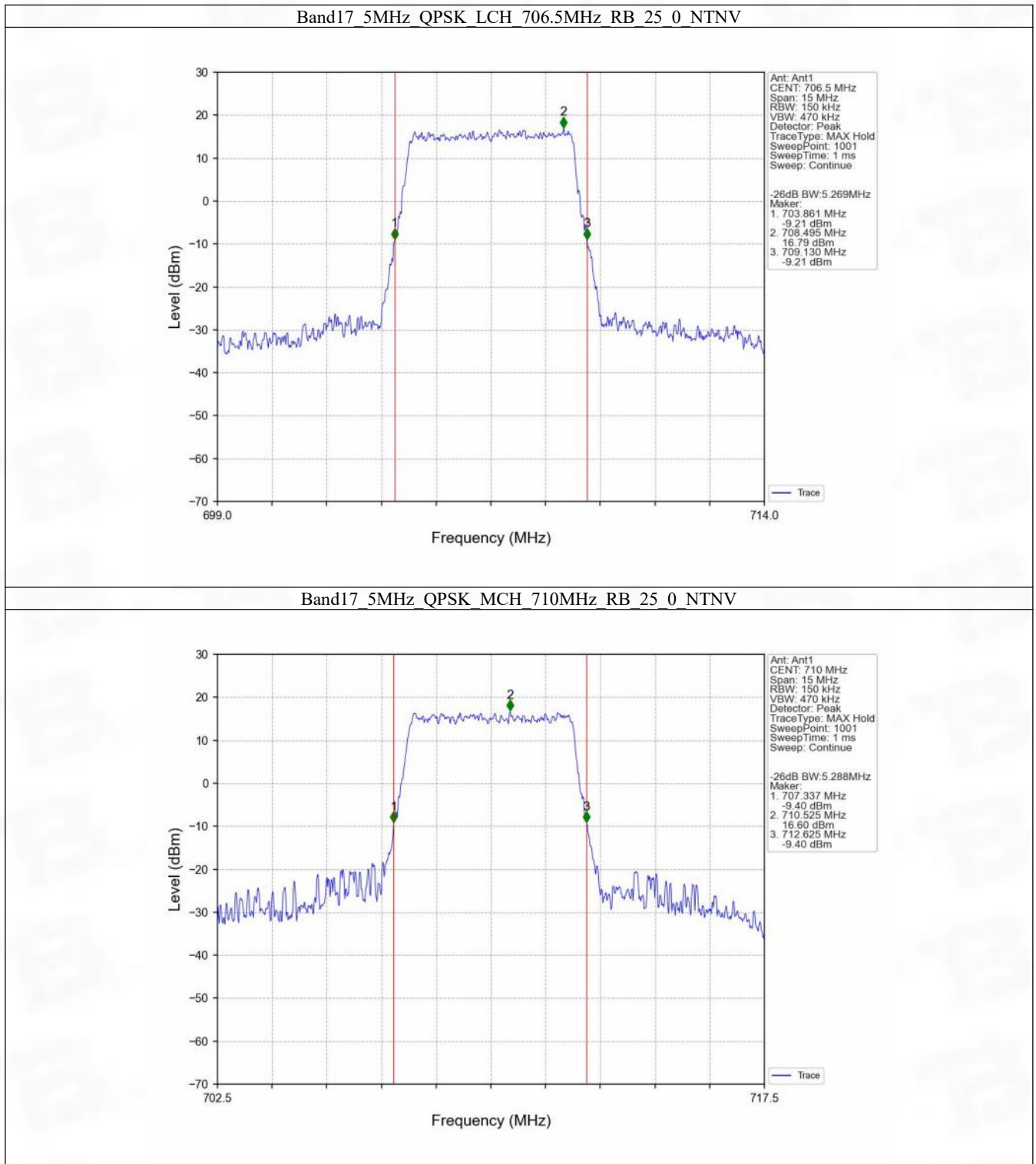
Band17 10MHz 16QAM MCH 710MHz RB 50 0 NTNV



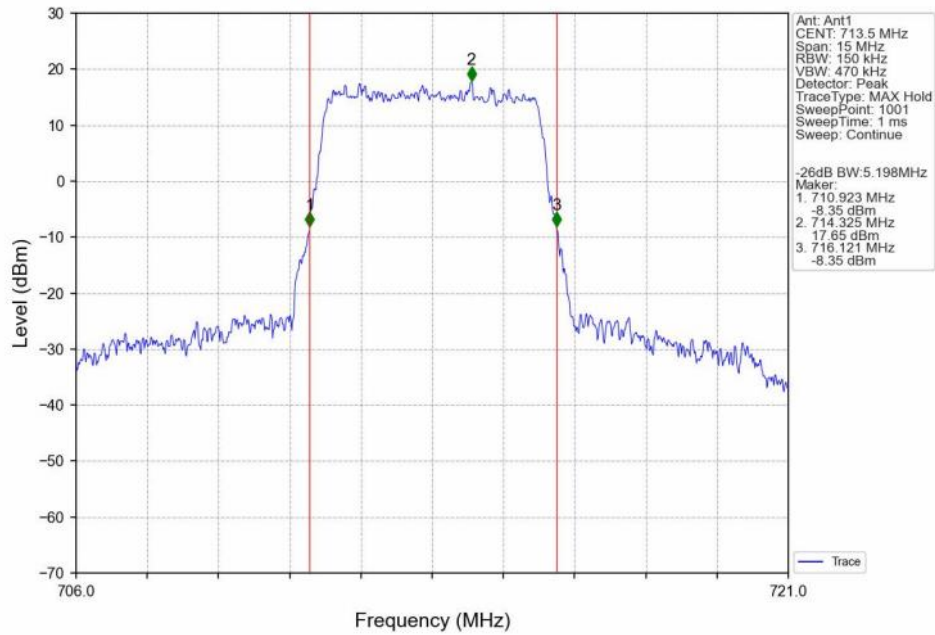
Band17 10MHz 16QAM HCH 711MHz RB 50 0 NTNV



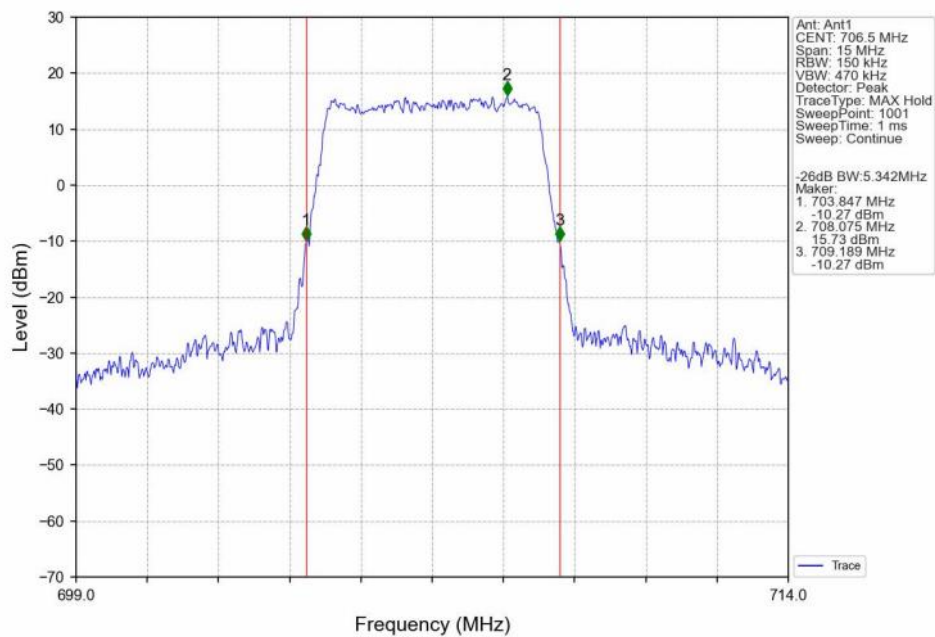
4.2.2 Band17_XDB



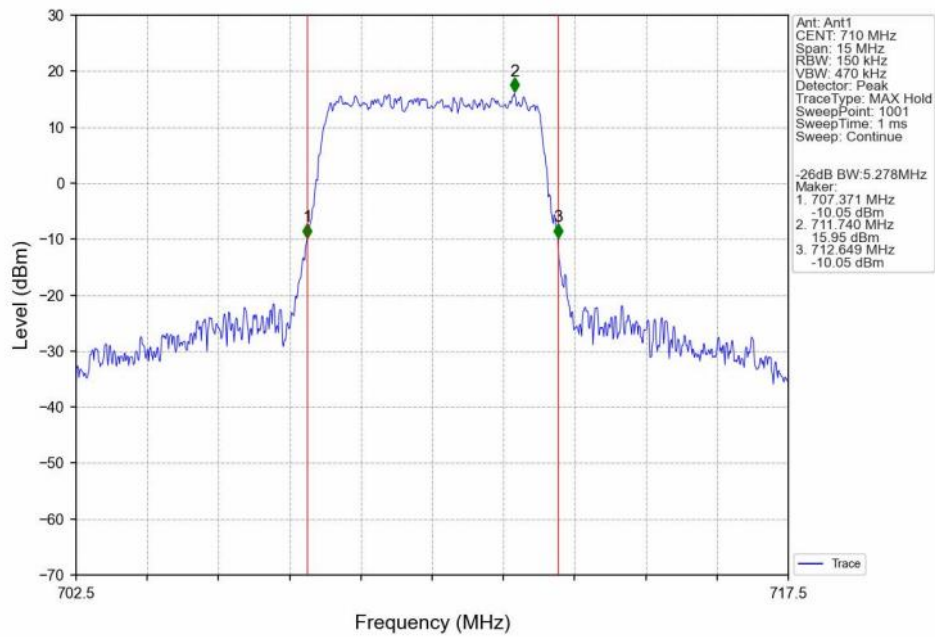
Band17 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



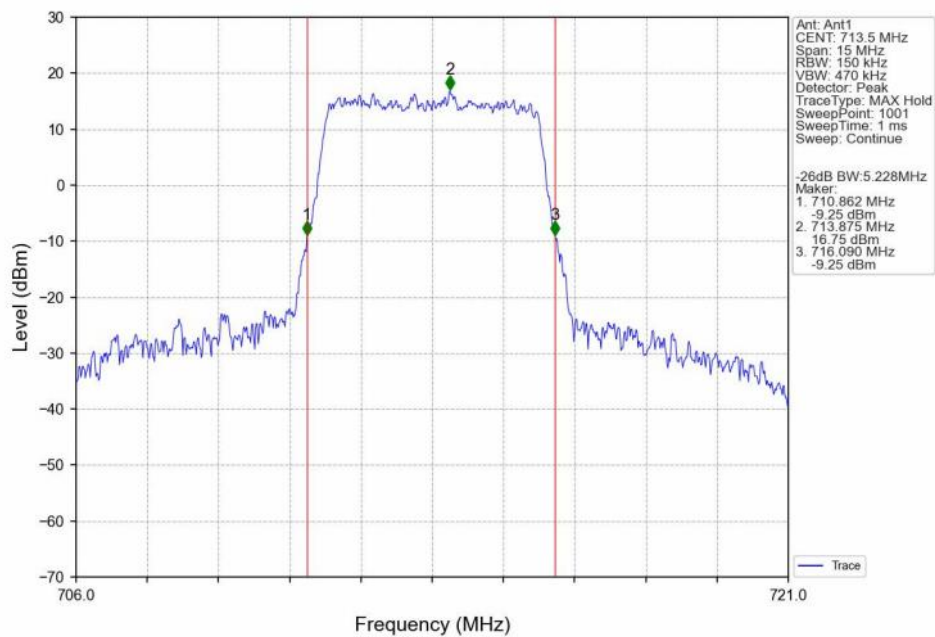
Band17 5MHz 16QAM LCH 706.5MHz RB 25 0 NTNV



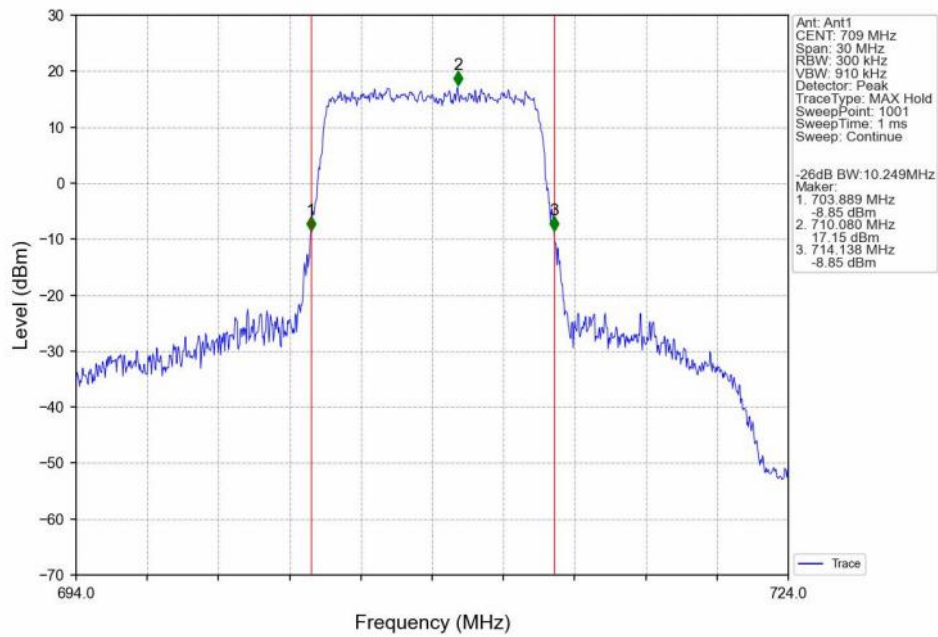
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



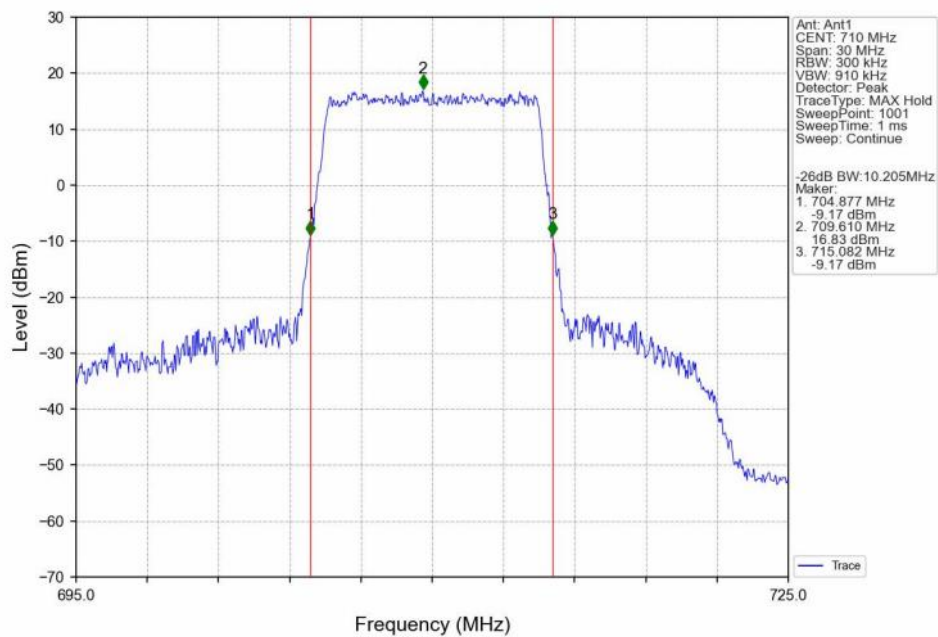
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



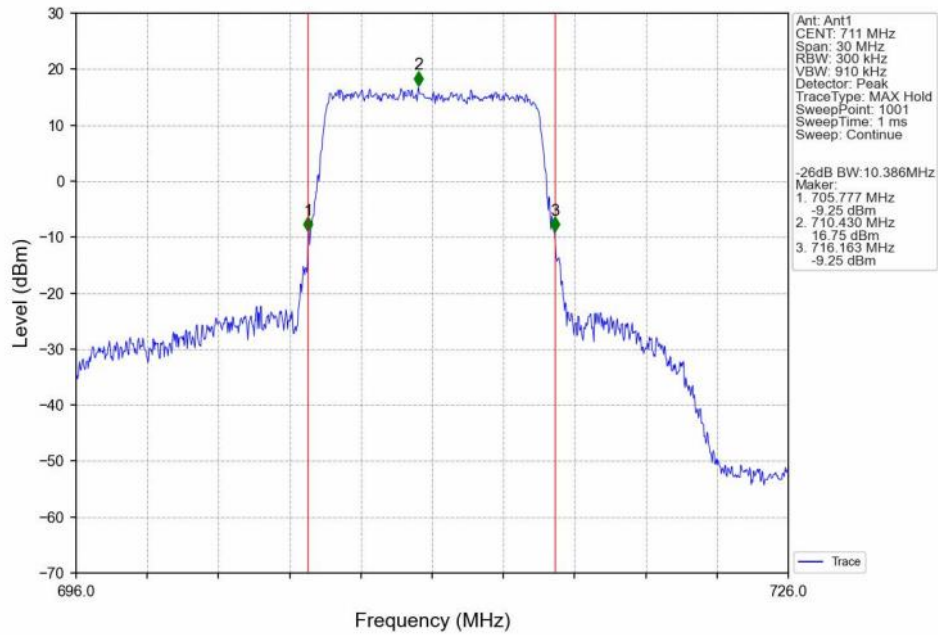
Band17 10MHz QPSK LCH 709MHz RB 50 0 NTNV



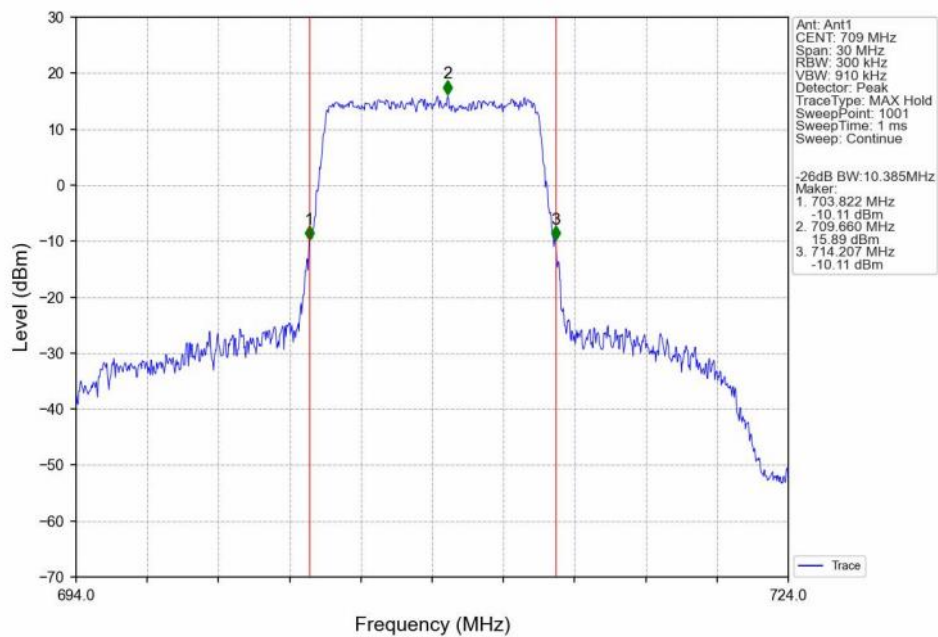
Band17 10MHz QPSK MCH 710MHz RB 50 0 NTNV



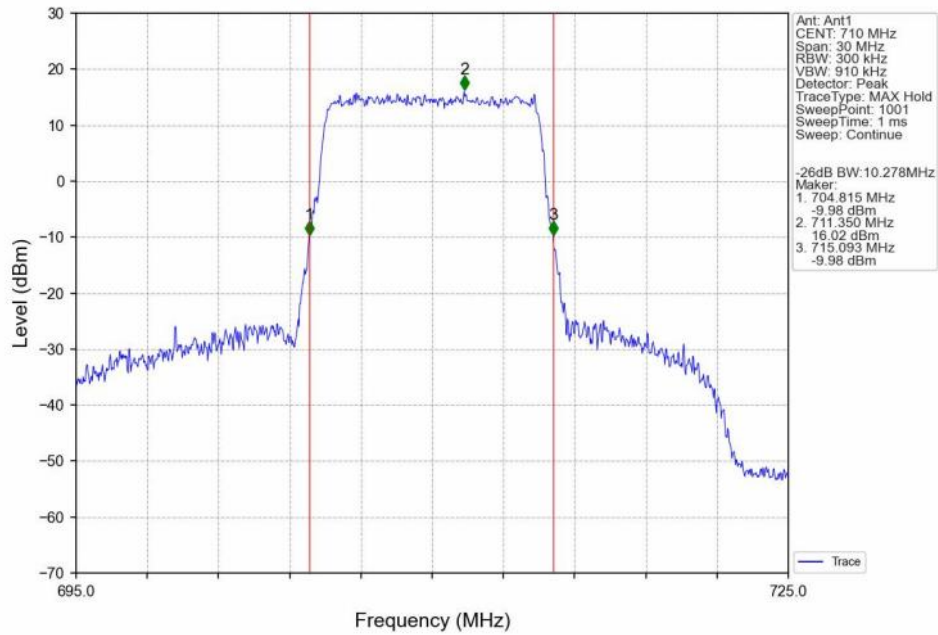
Band17 10MHz QPSK HCH 711MHz RB 50 0 NTNV



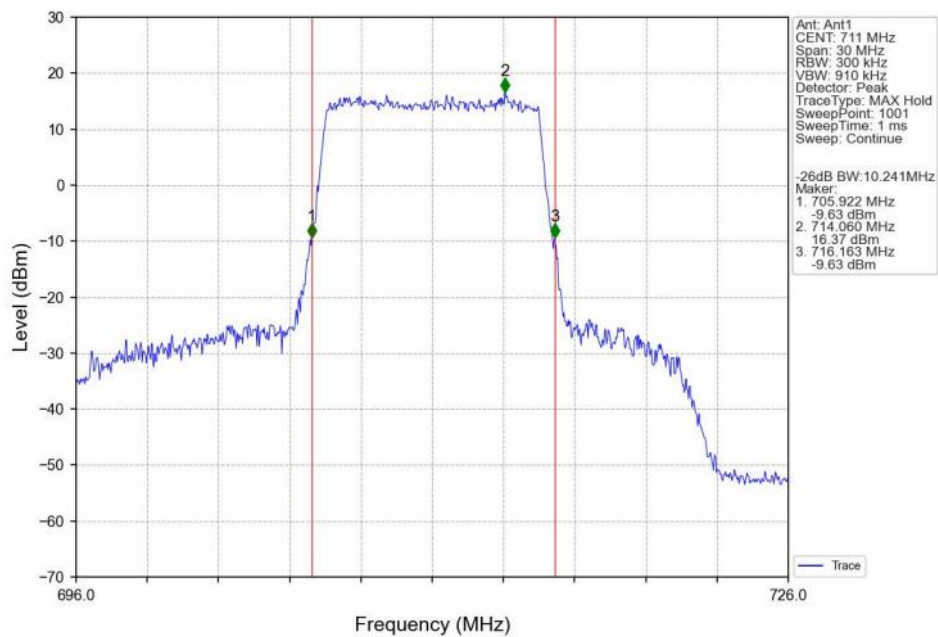
Band17 10MHz 16QAM LCH 709MHz RB 50 0 NTNV



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

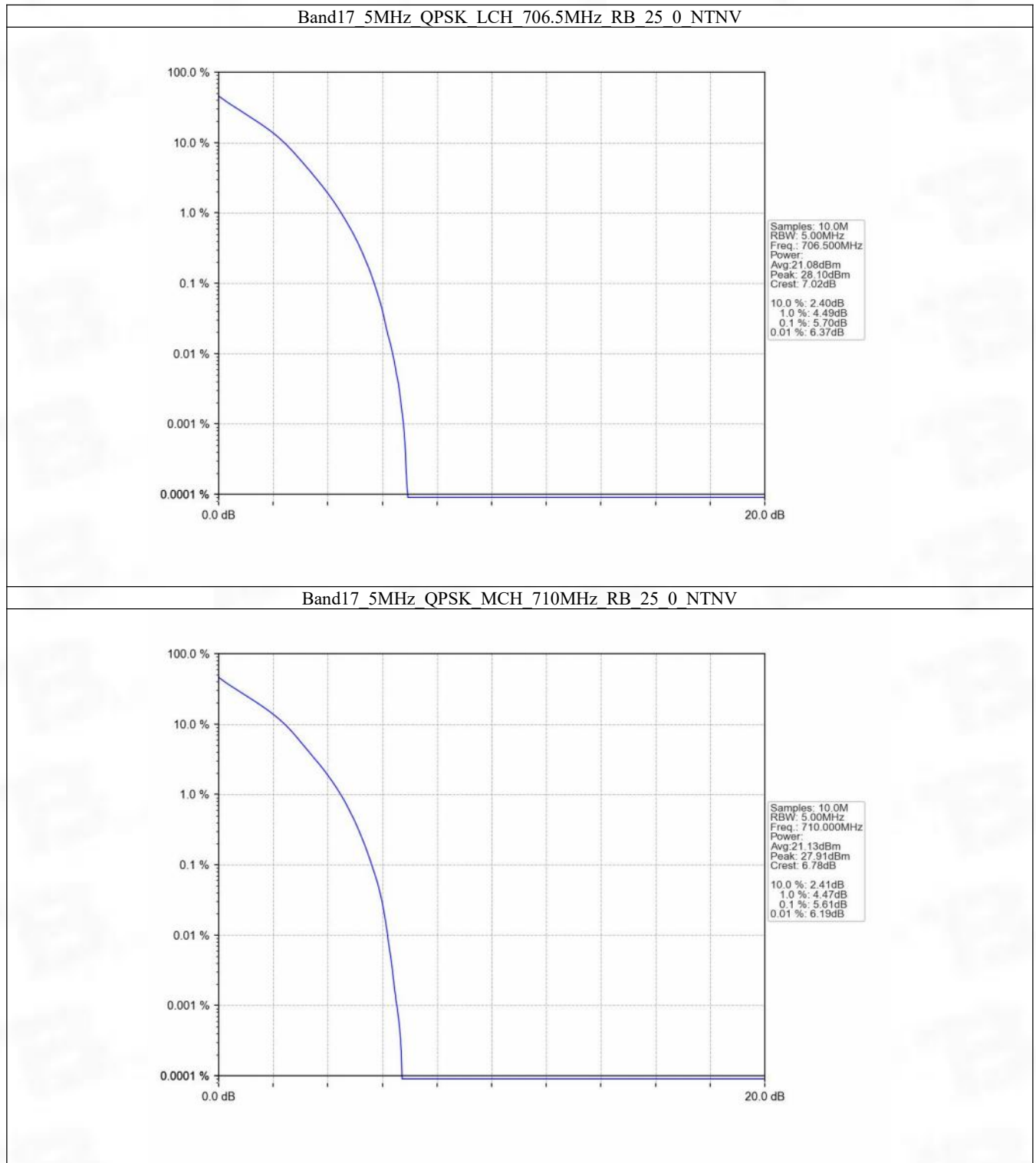
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.70	<=13	Pass
	710	25	0	5.61	<=13	Pass
	713.5	25	0	5.58	<=13	Pass
16QAM	706.5	25	0	6.37	<=13	Pass
	710	25	0	6.31	<=13	Pass
	713.5	25	0	6.29	<=13	Pass

5.1.2 B17_10MHz

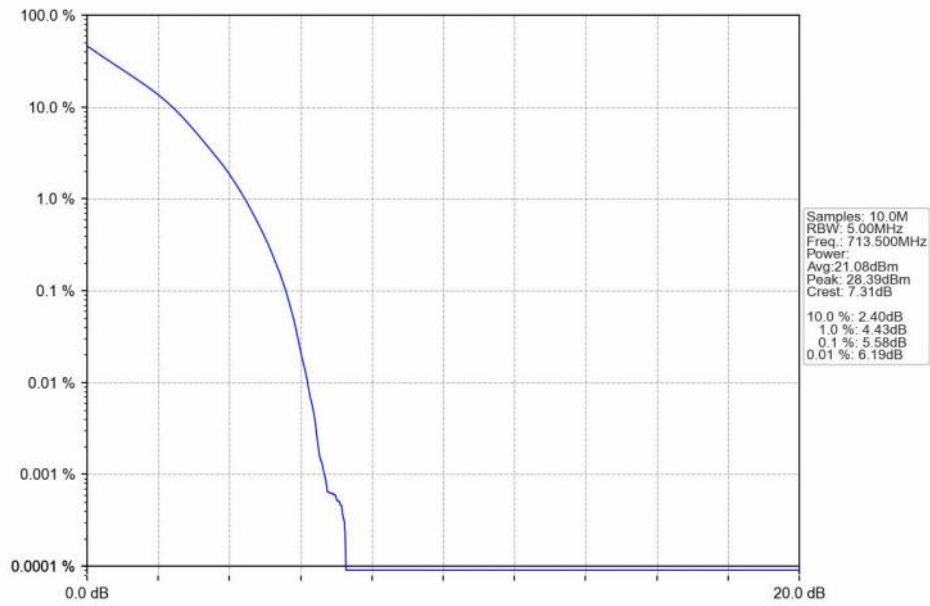
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.58	<=13	Pass
	710	50	0	5.59	<=13	Pass
	711	50	0	5.59	<=13	Pass
16QAM	709	50	0	6.35	<=13	Pass
	710	50	0	6.35	<=13	Pass
	711	50	0	6.31	<=13	Pass

5.2 Test Graph

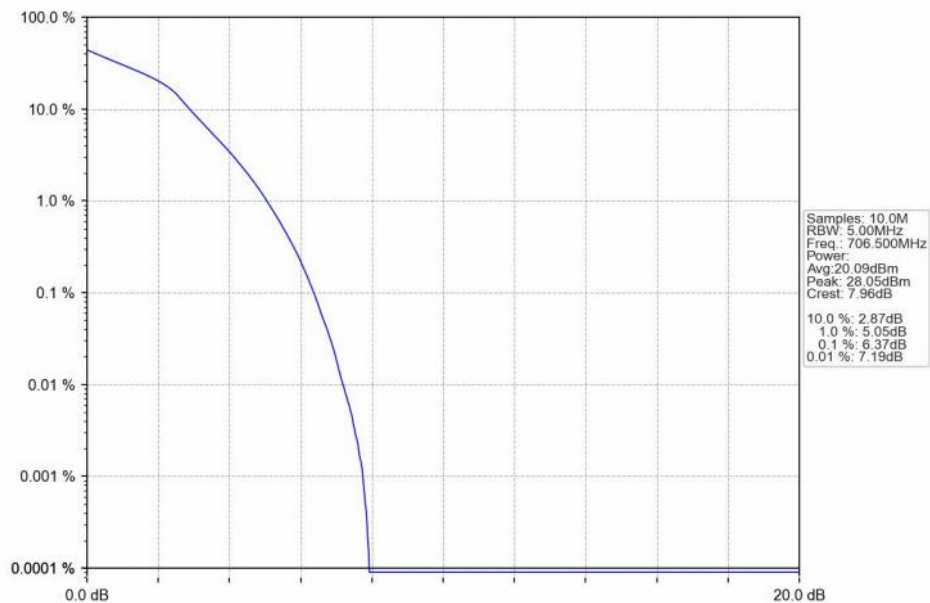
5.2.1 B17_5MHz



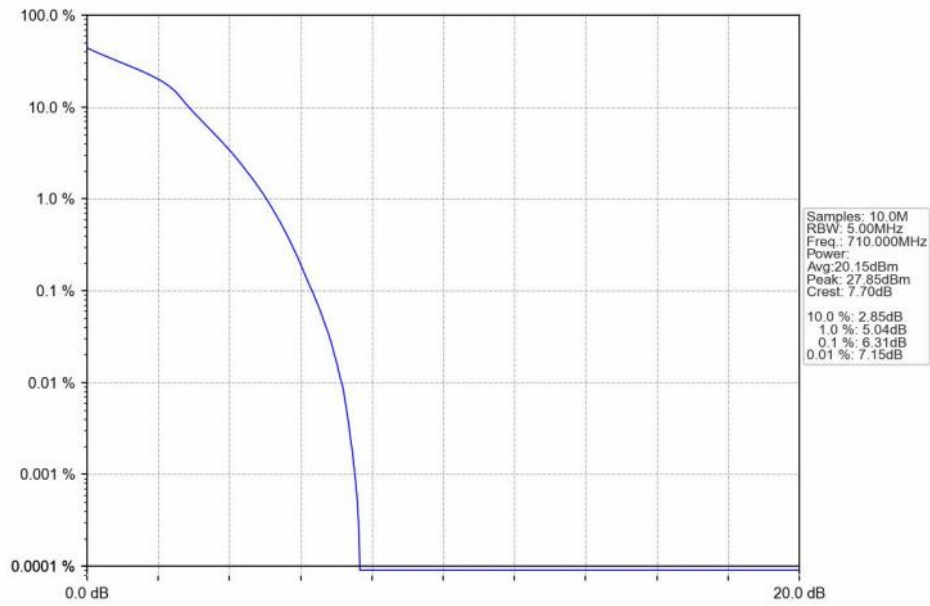
Band17 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



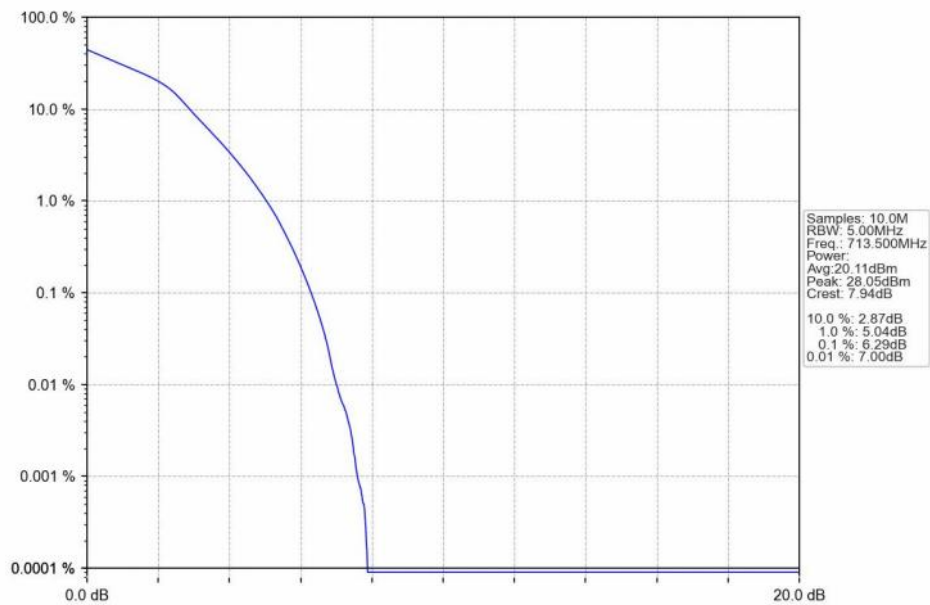
Band17 5MHz 16QAM LCH 706.5MHz RB 25 0 NTNV



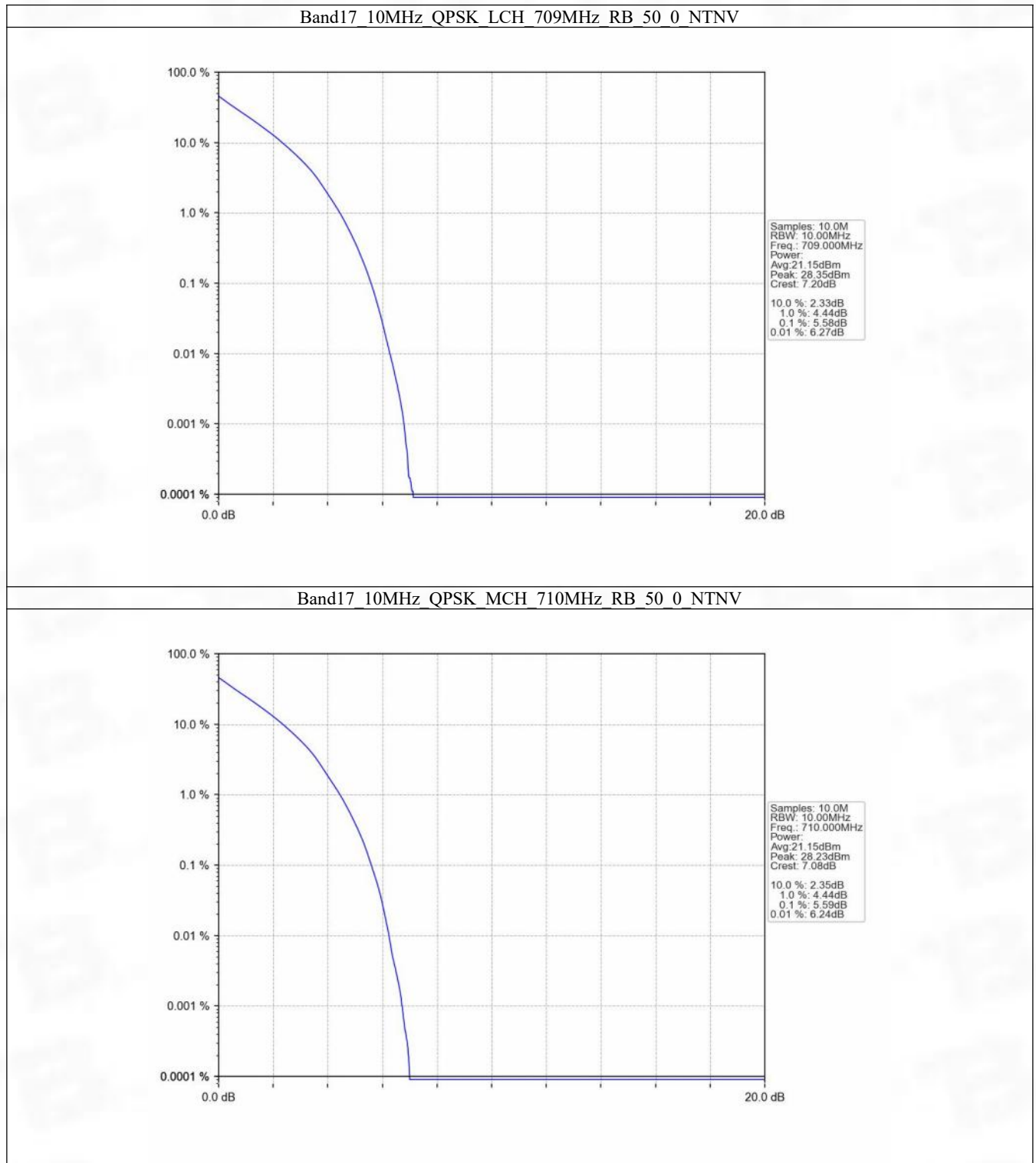
Band17 5MHz 16QAM MCH 710MHz RB 25 0 NTNV



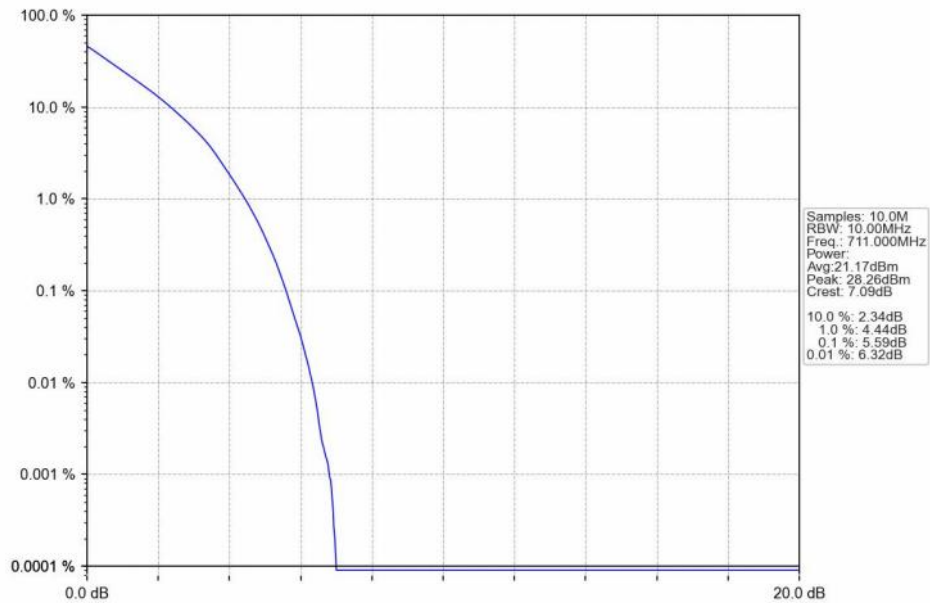
Band17 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



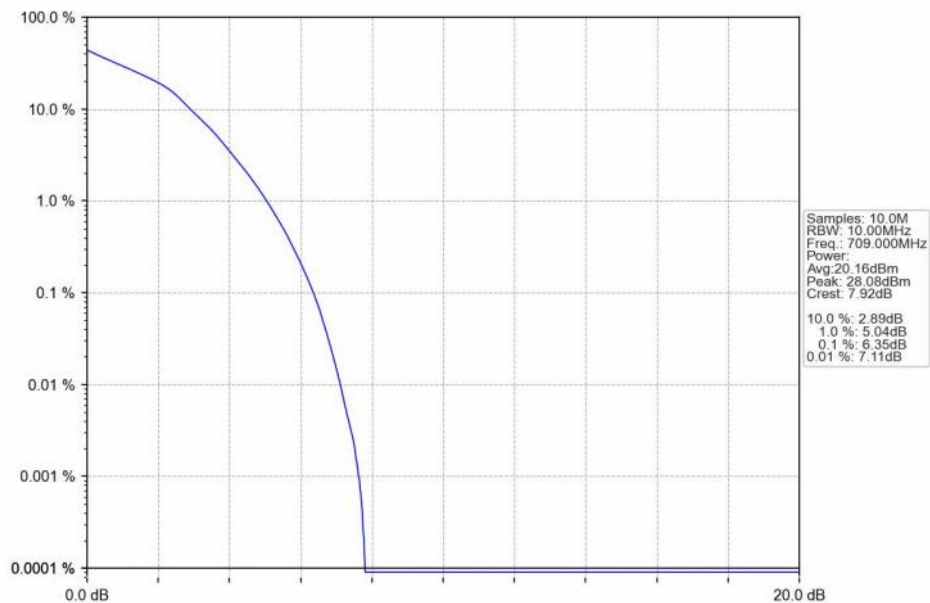
5.2.2 B17_10MHz



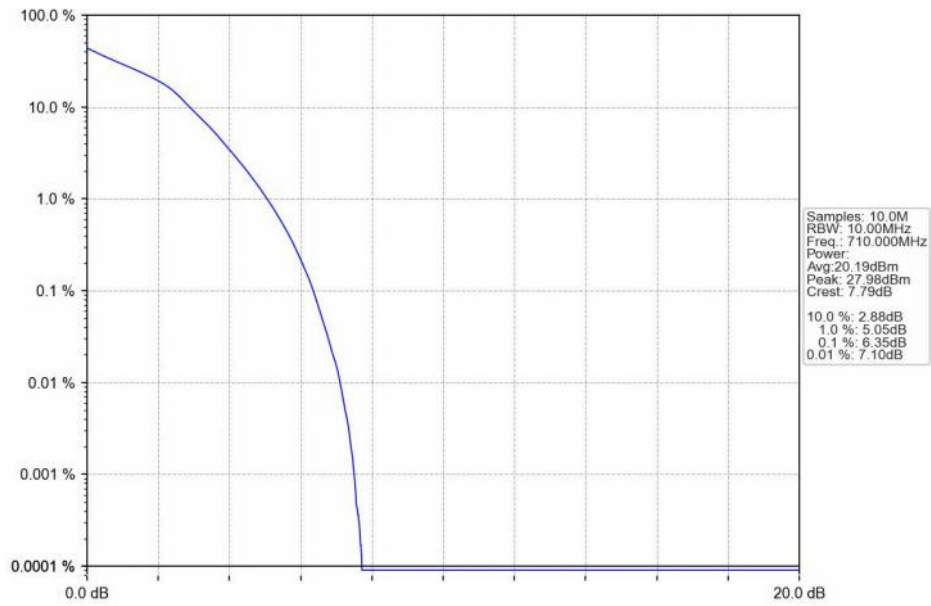
Band17 10MHz QPSK HCH 711MHz RB 50 0 NTNV



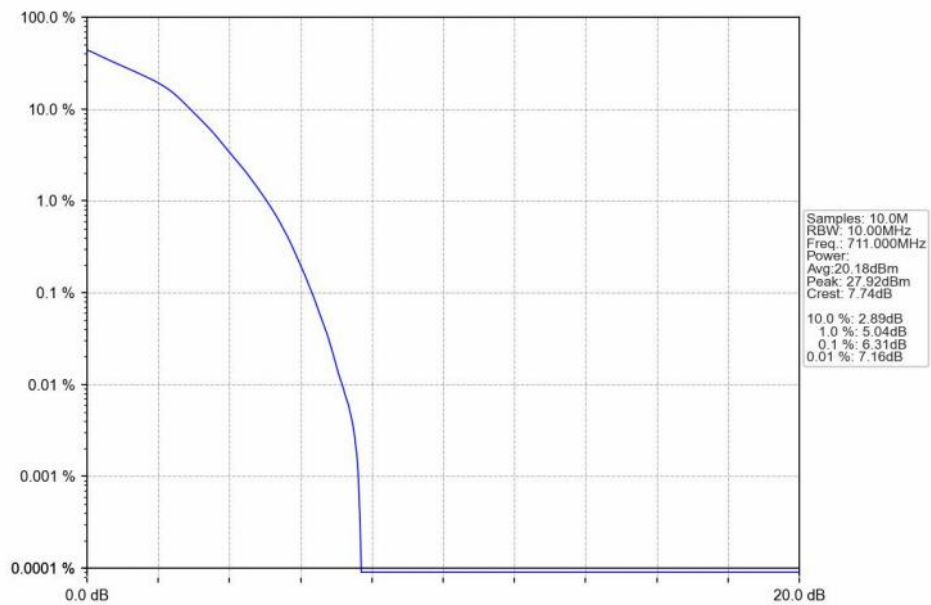
Band17 10MHz 16QAM LCH 709MHz RB 50 0 NTNV



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

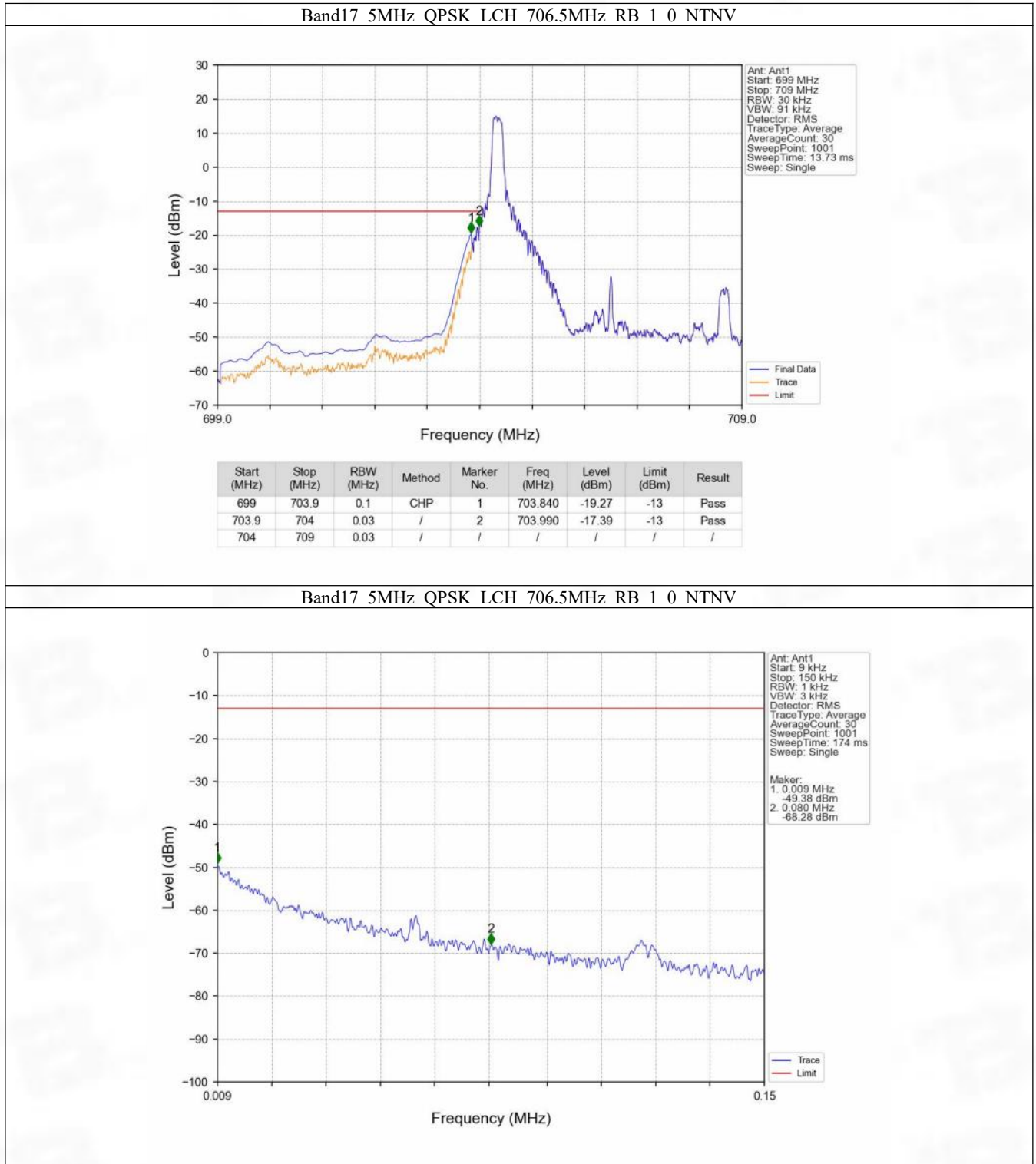
Band: 17 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test 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

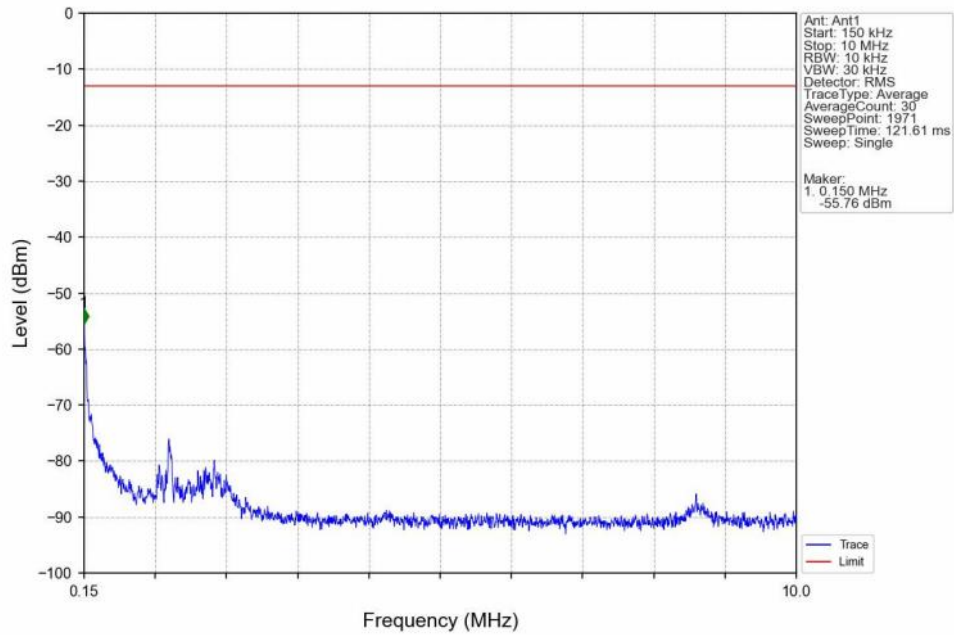
Band: 17 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		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

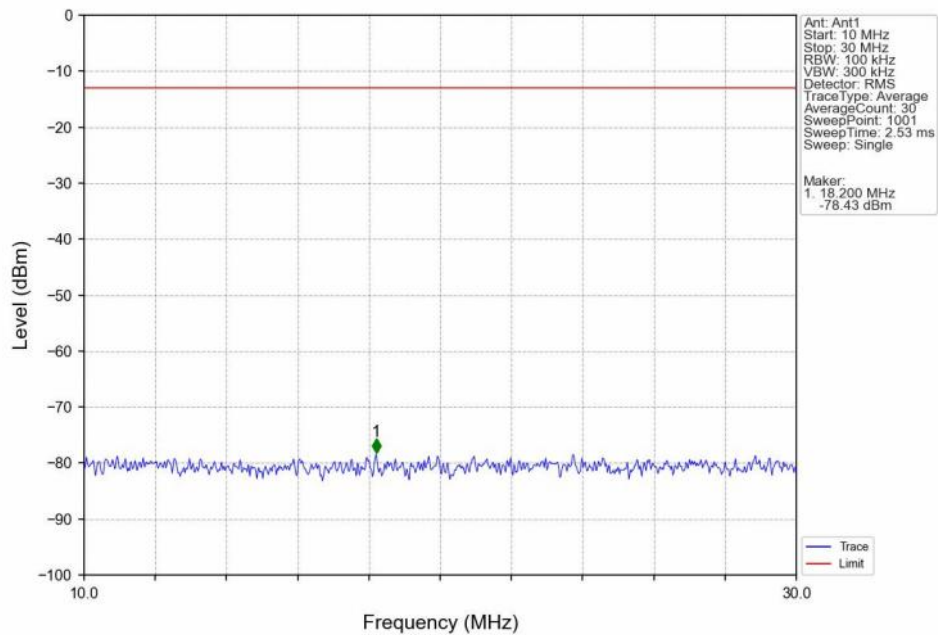
6.2.1 B17_5MHz



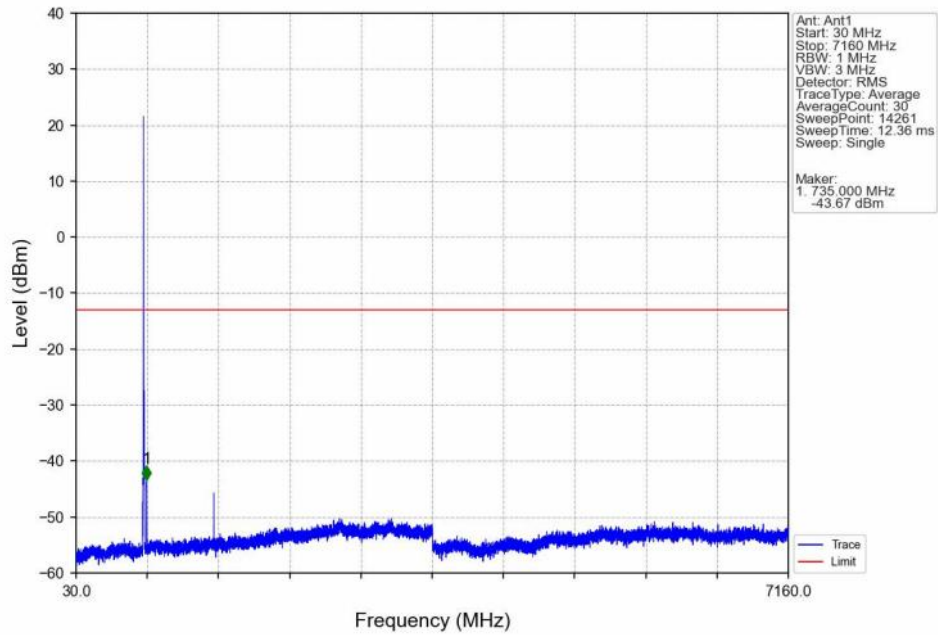
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



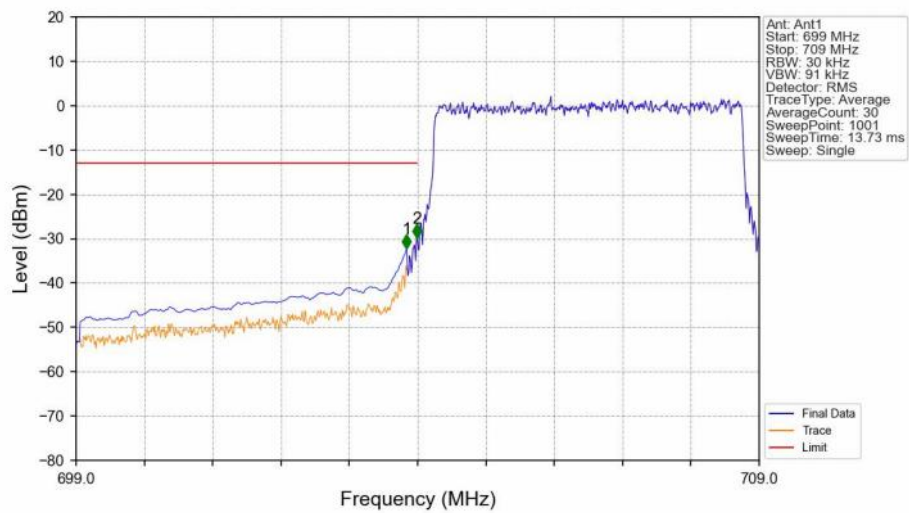
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

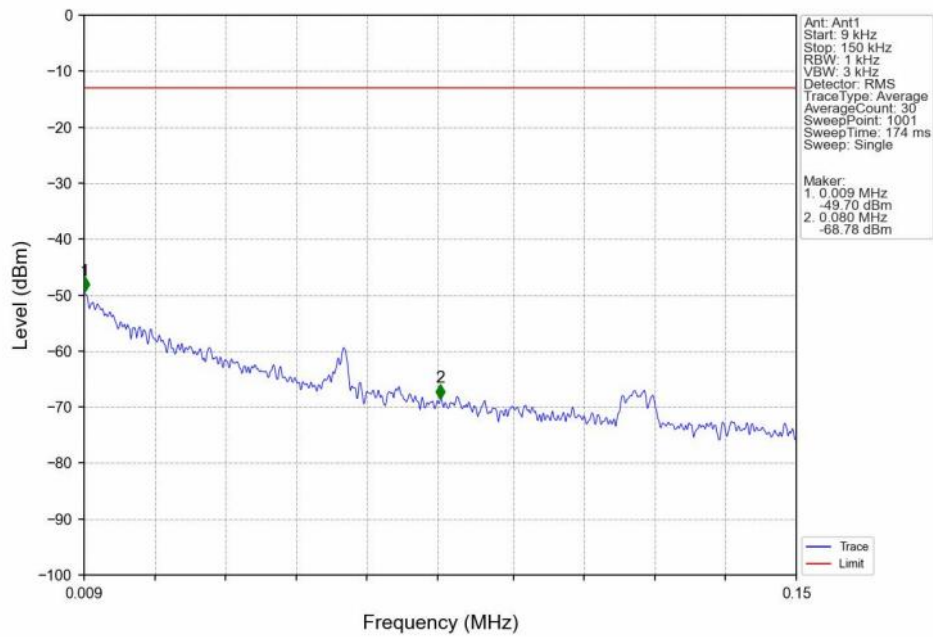


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

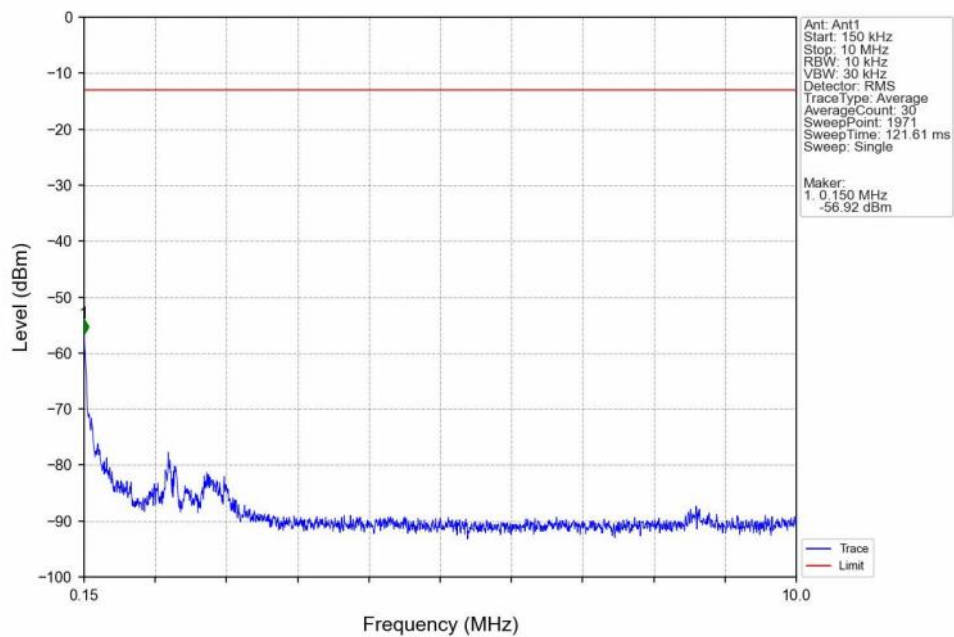


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-32.18	-13	Pass
703.9	704	0.03	/	2	703.990	-29.84	-13	Pass
704	709	0.03	/	/	/	/	/	/

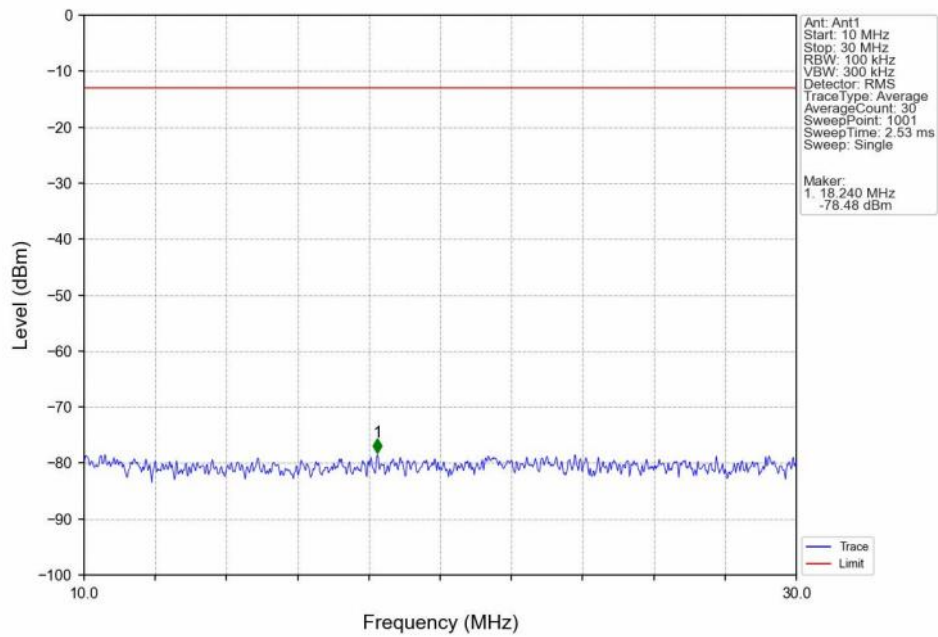
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



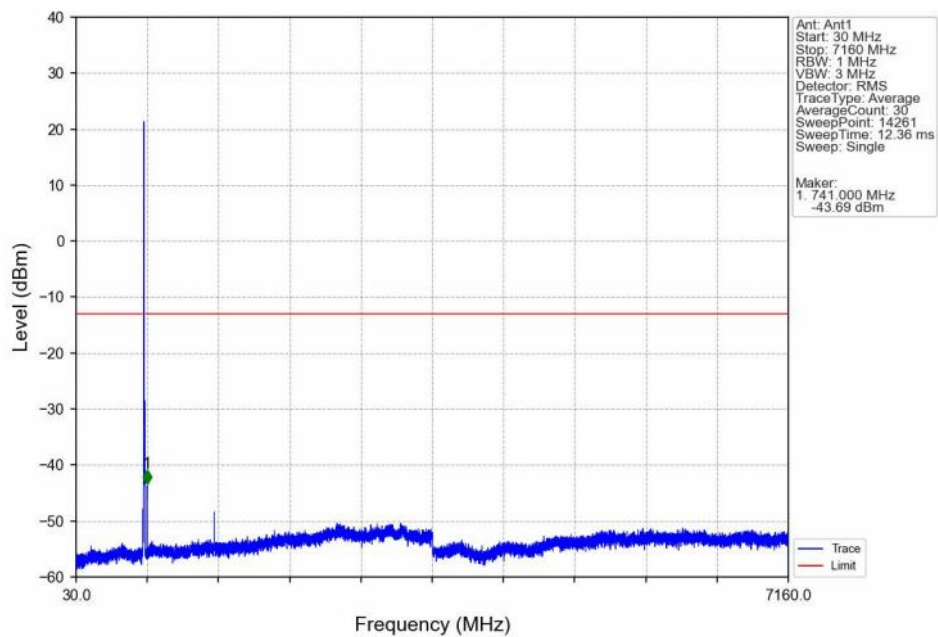
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



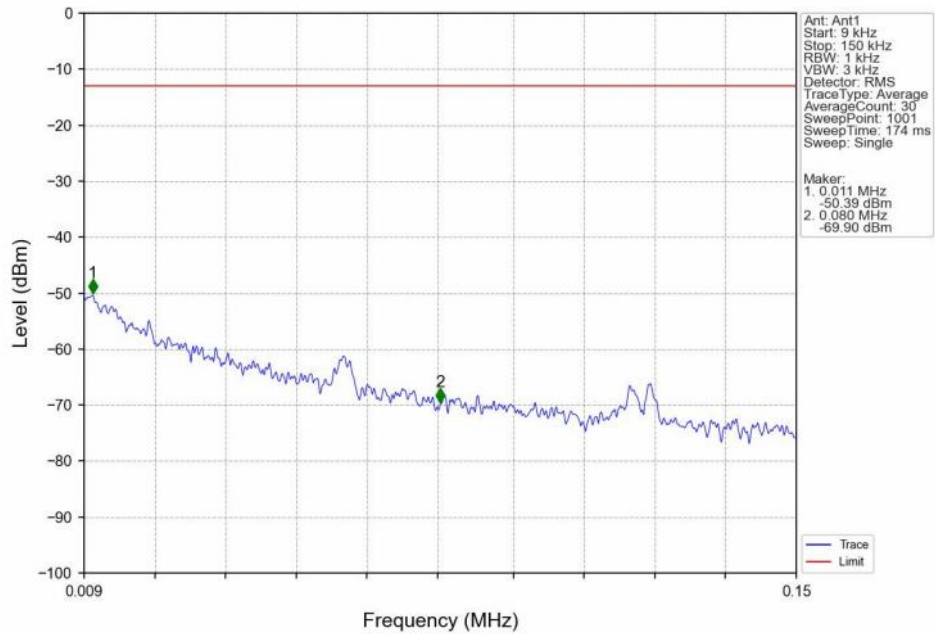
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



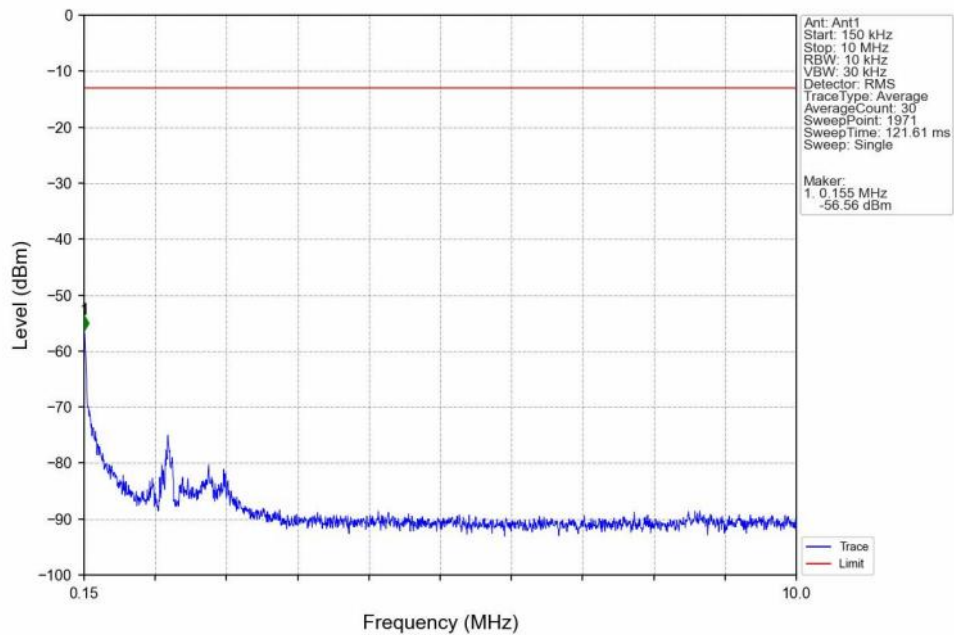
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



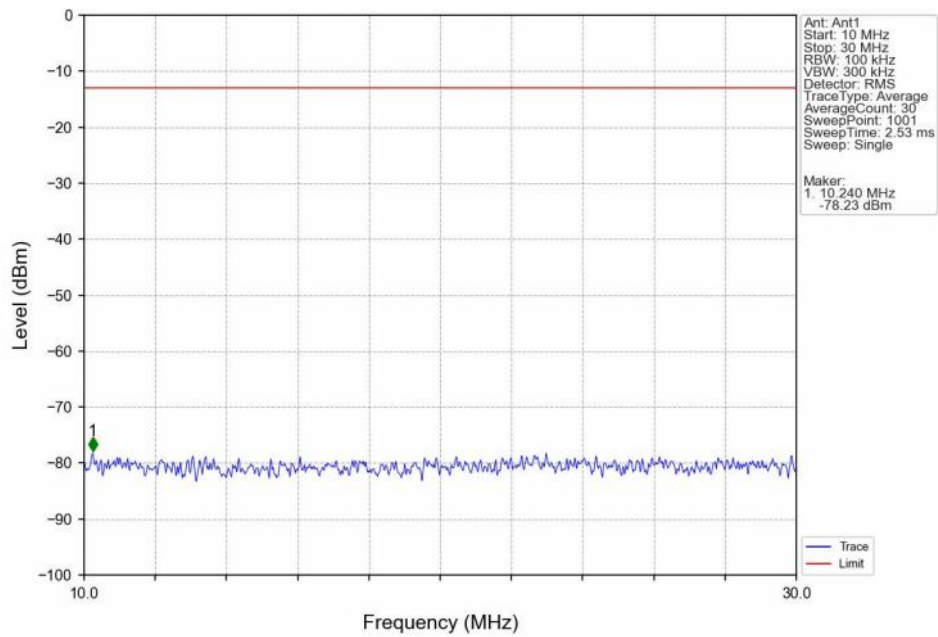
Band17 5MHz QPSK HCH 713.5MHz RB 1 0 NTNV



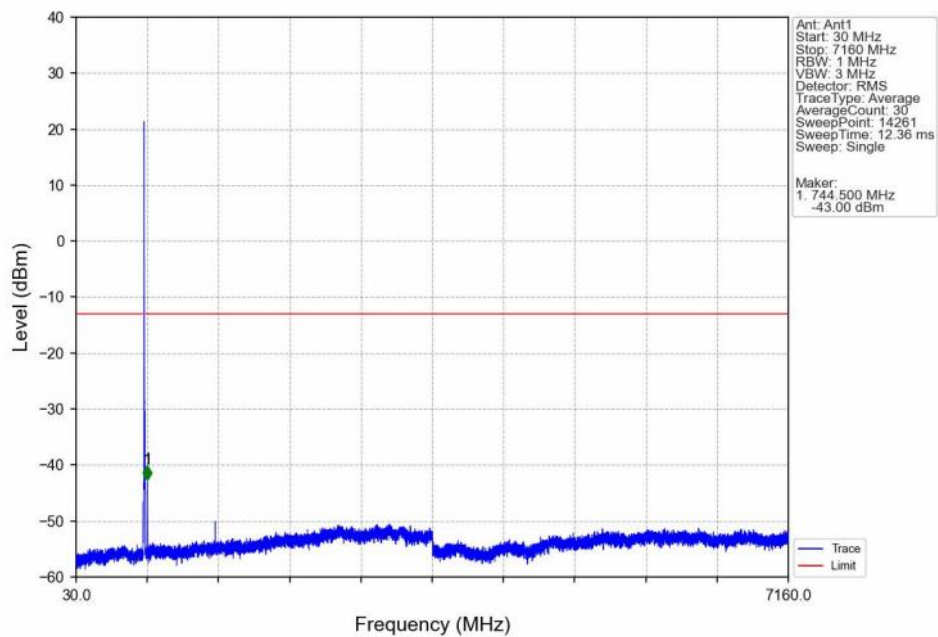
Band17 5MHz QPSK HCH 713.5MHz RB 1 0 NTNV



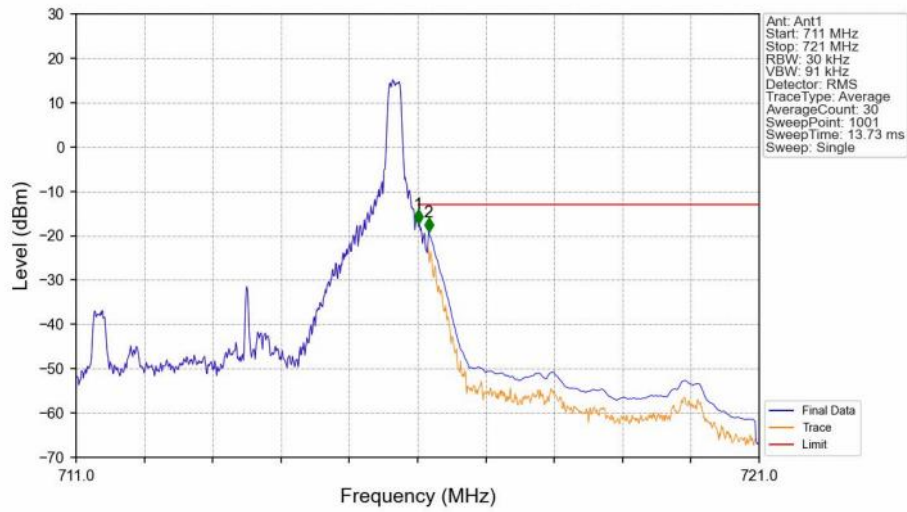
Band17 5MHz QPSK HCH 713.5MHz RB 1 0 NTNV



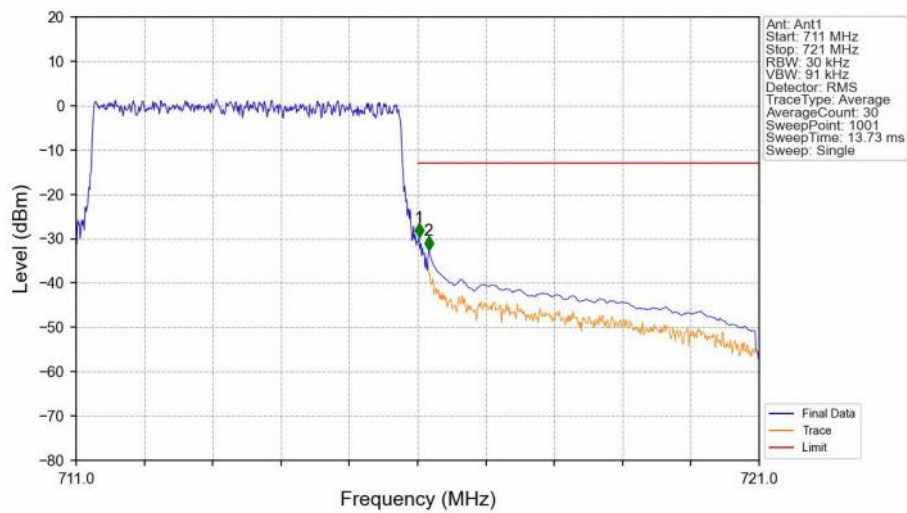
Band17 5MHz QPSK HCH 713.5MHz RB 1 0 NTNV



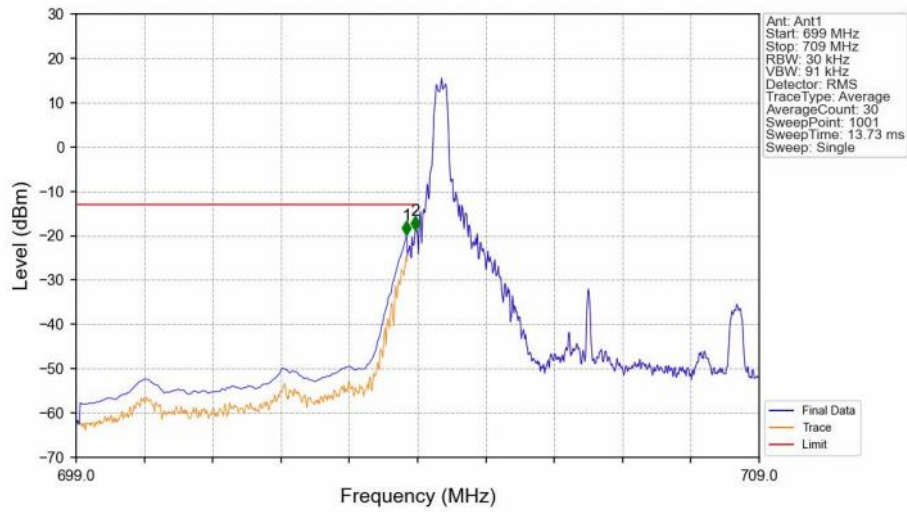
Band17 5MHz QPSK HCH 713.5MHz RB 1 24 NTNV



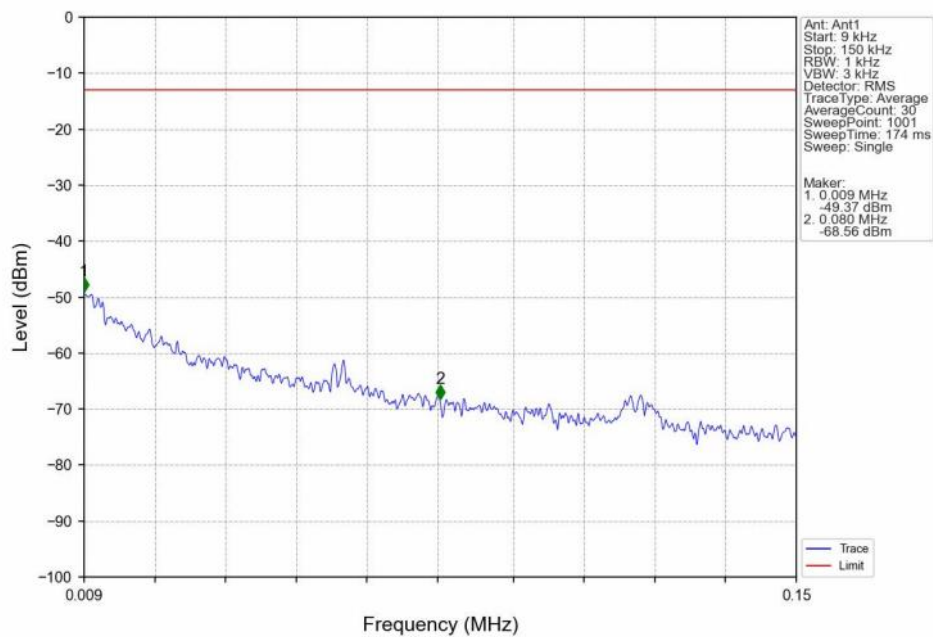
Band17 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



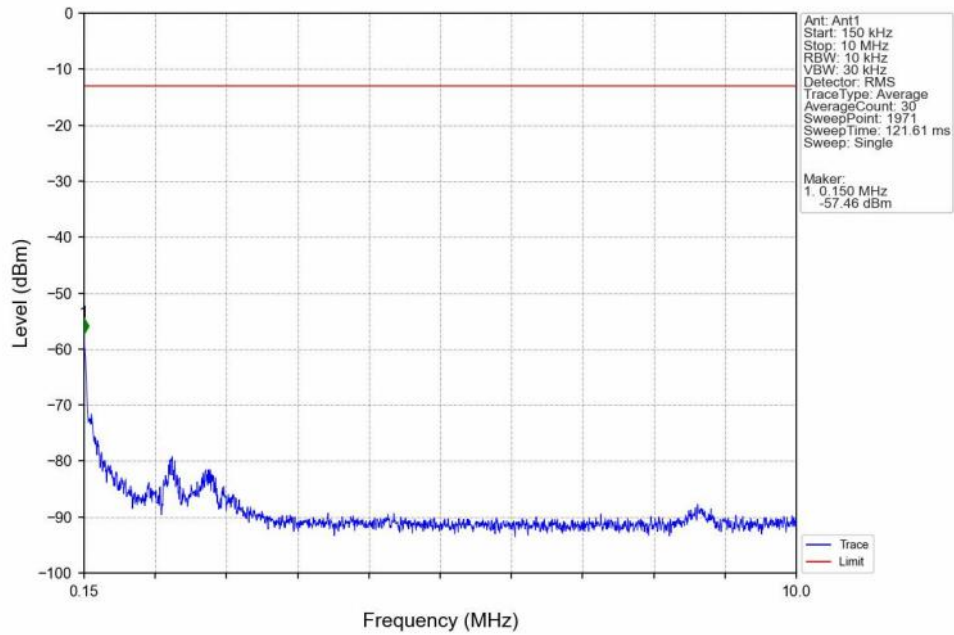
Band17 5MHz 16QAM LCH 706.5MHz RB 1 0 NTNV



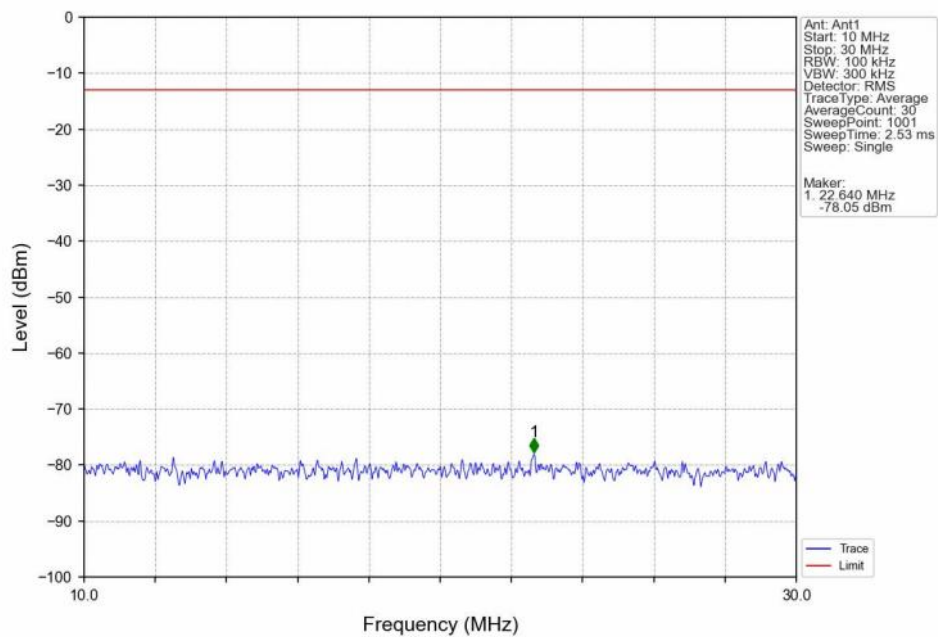
Band17 5MHz 16QAM LCH 706.5MHz RB 1 0 NTNV



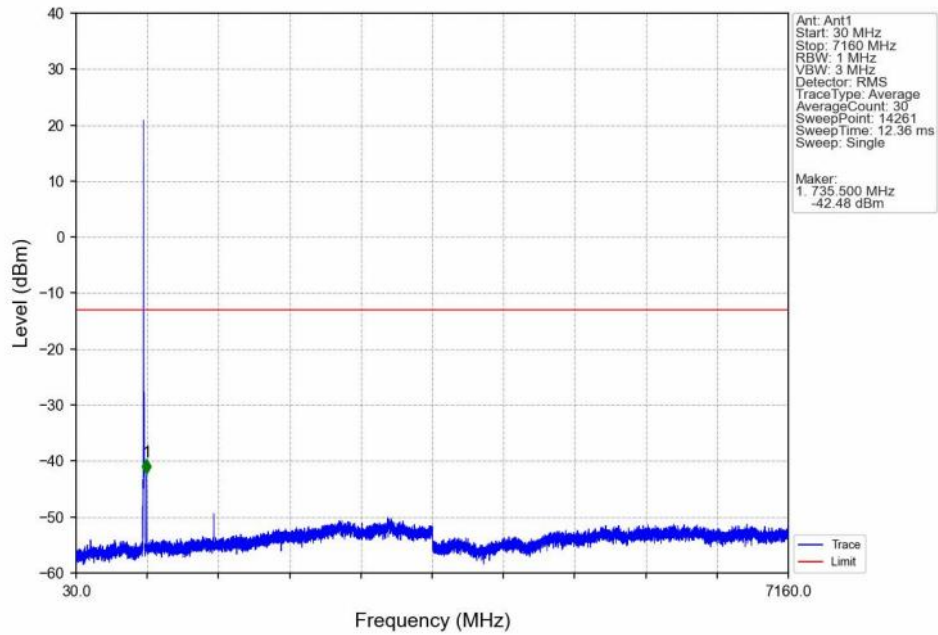
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



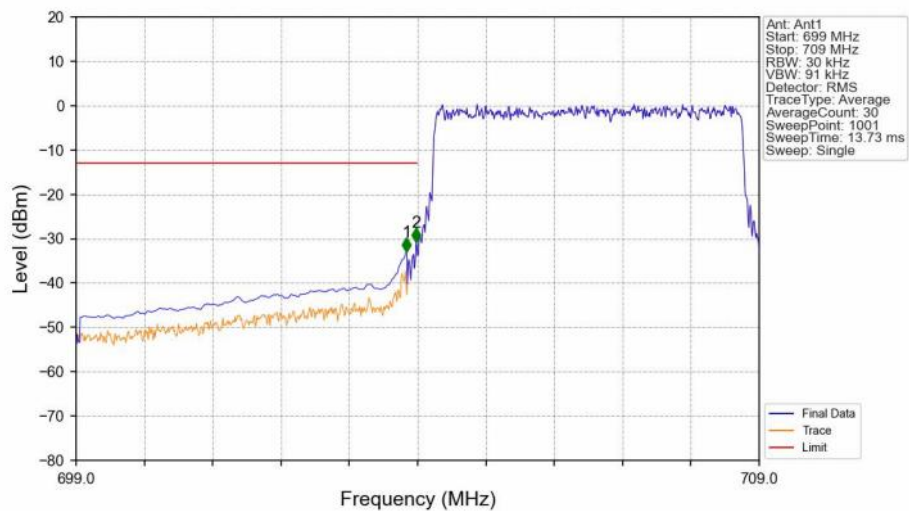
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17 5MHz 16QAM LCH 706.5MHz RB 1 0 NTNV

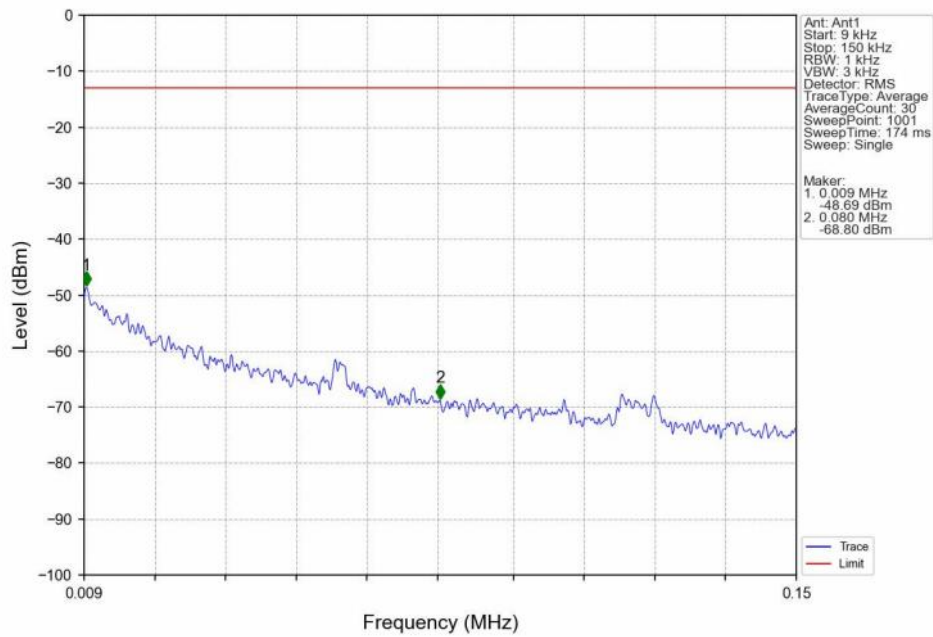


Band17 5MHz 16QAM LCH 706.5MHz RB 25 0 NTNV

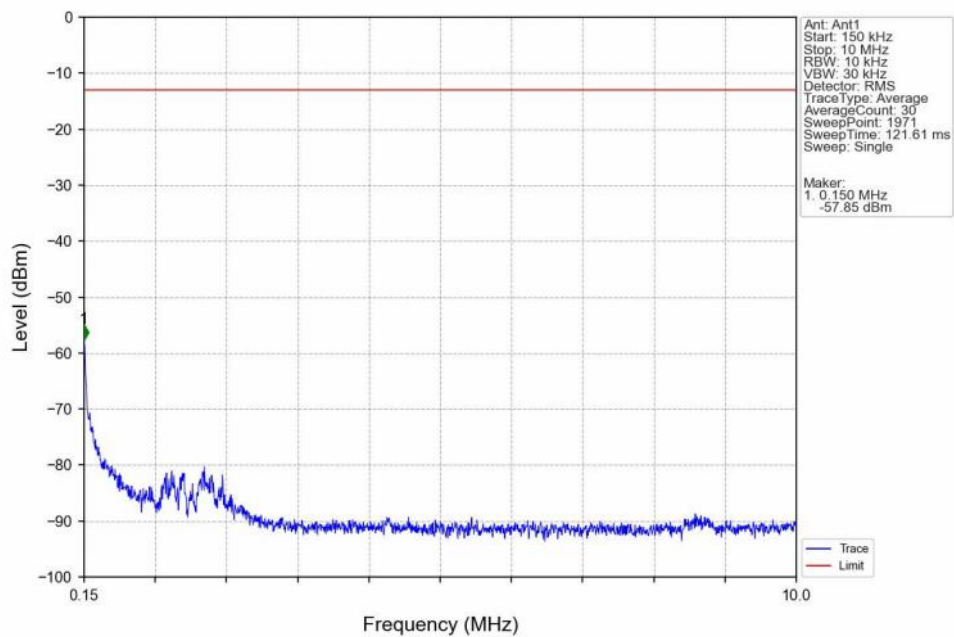


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-32.97	-13	Pass
703.9	704	0.03	/	2	703.980	-30.72	-13	Pass
704	709	0.03	/	/	/	/	/	/

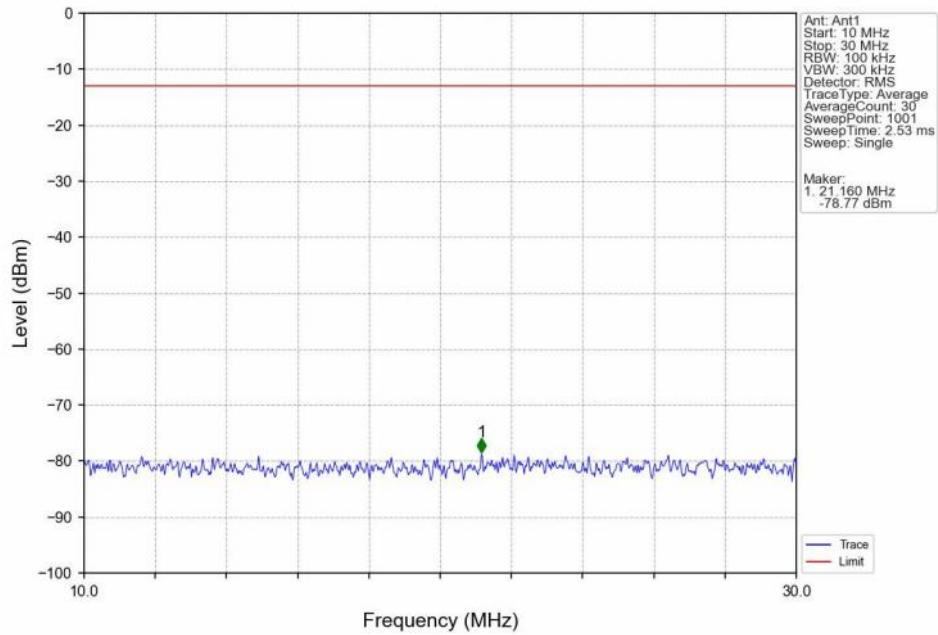
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



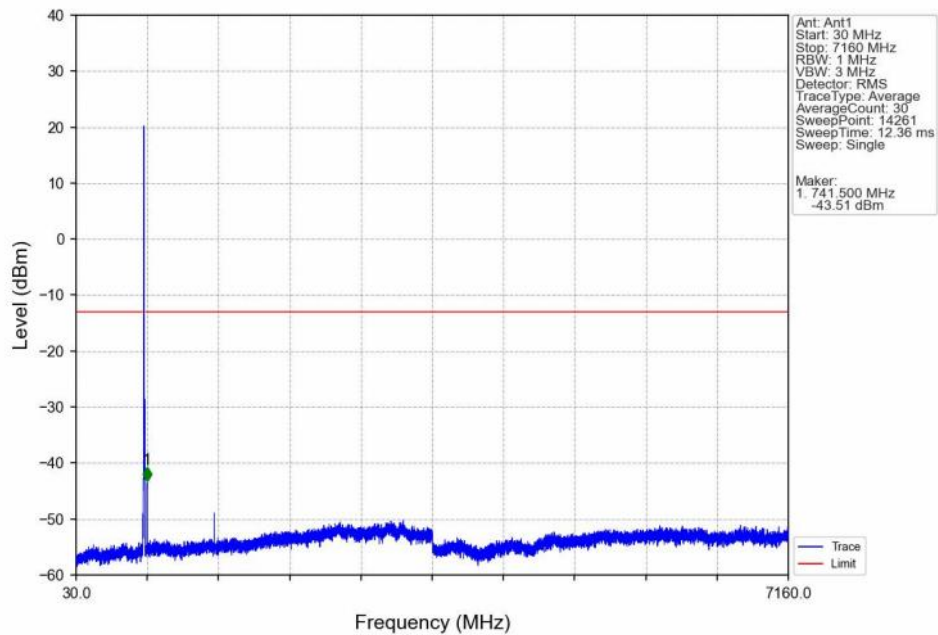
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



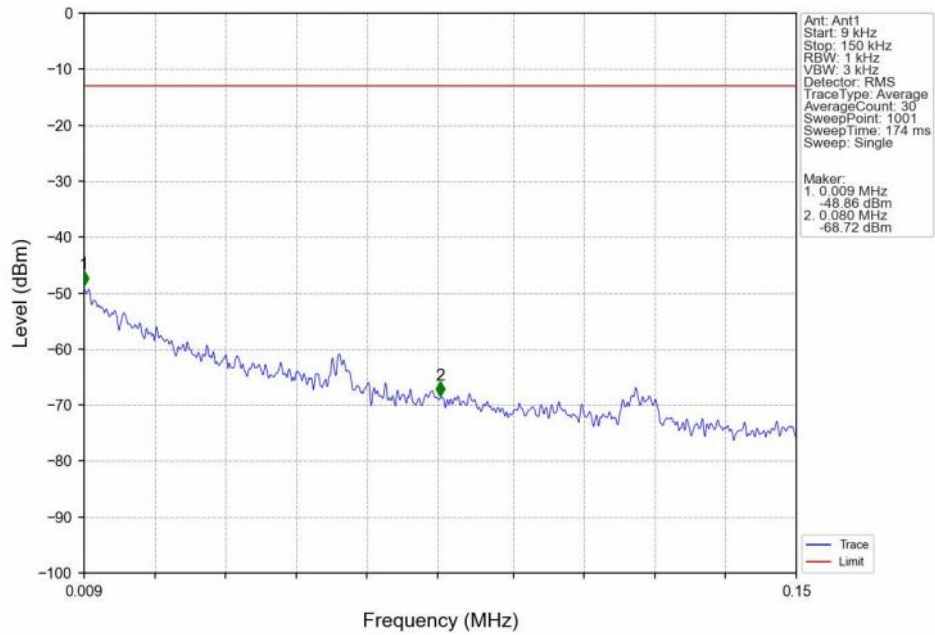
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



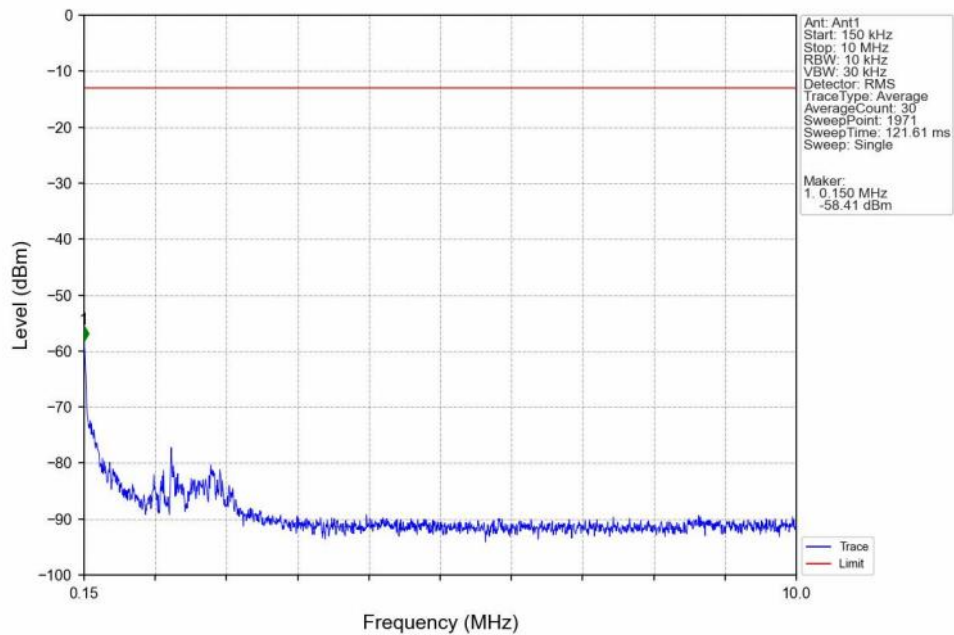
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



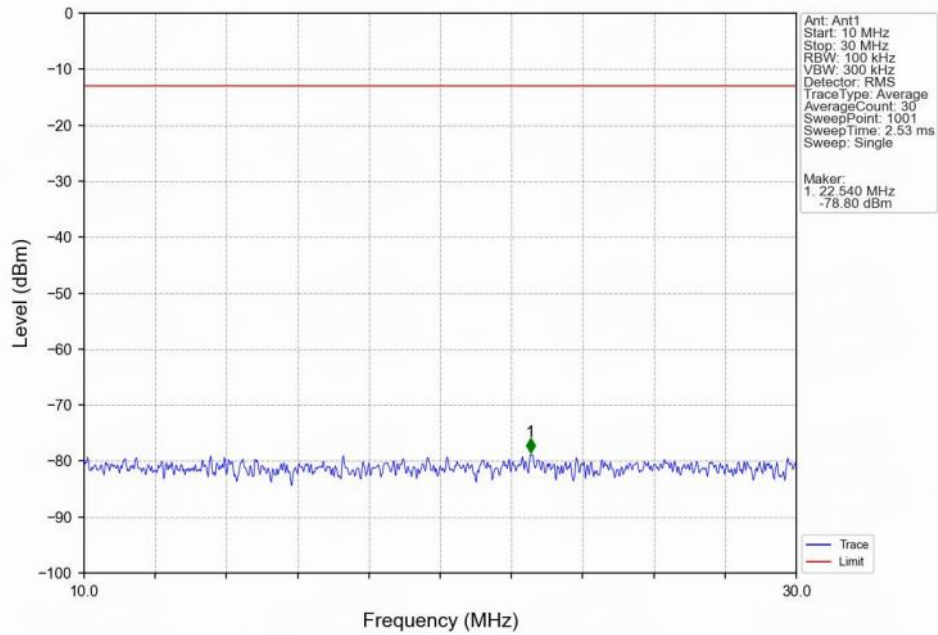
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



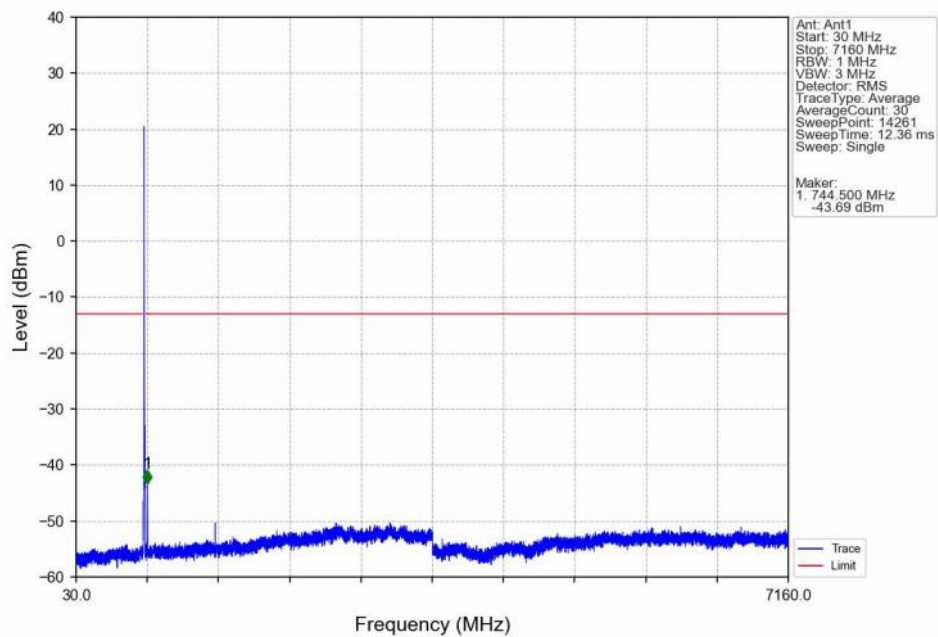
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



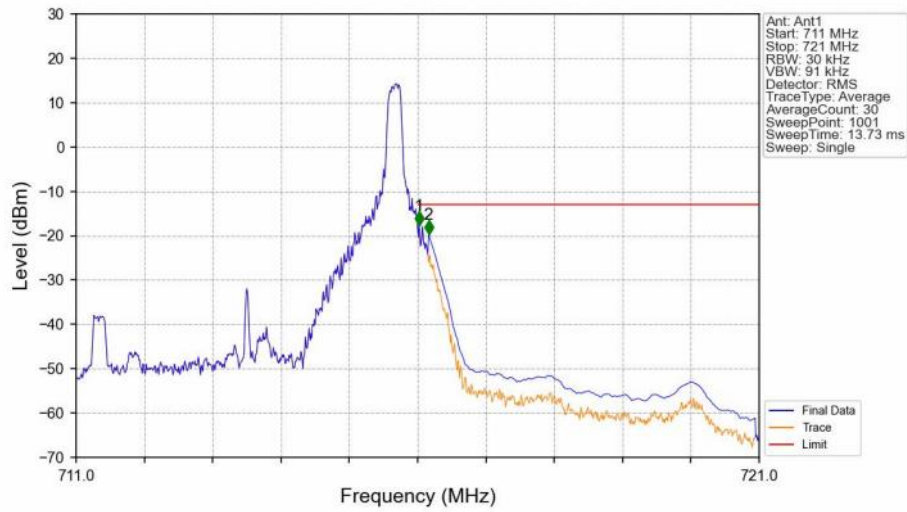
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

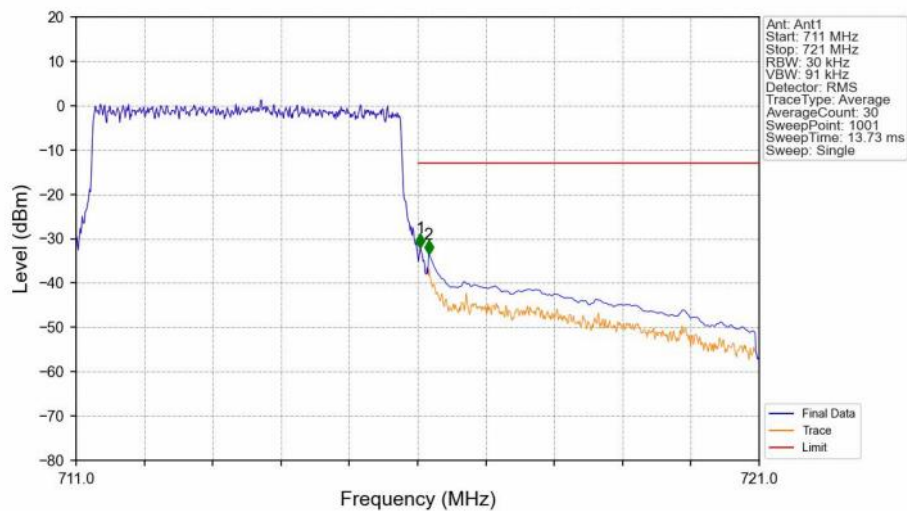


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



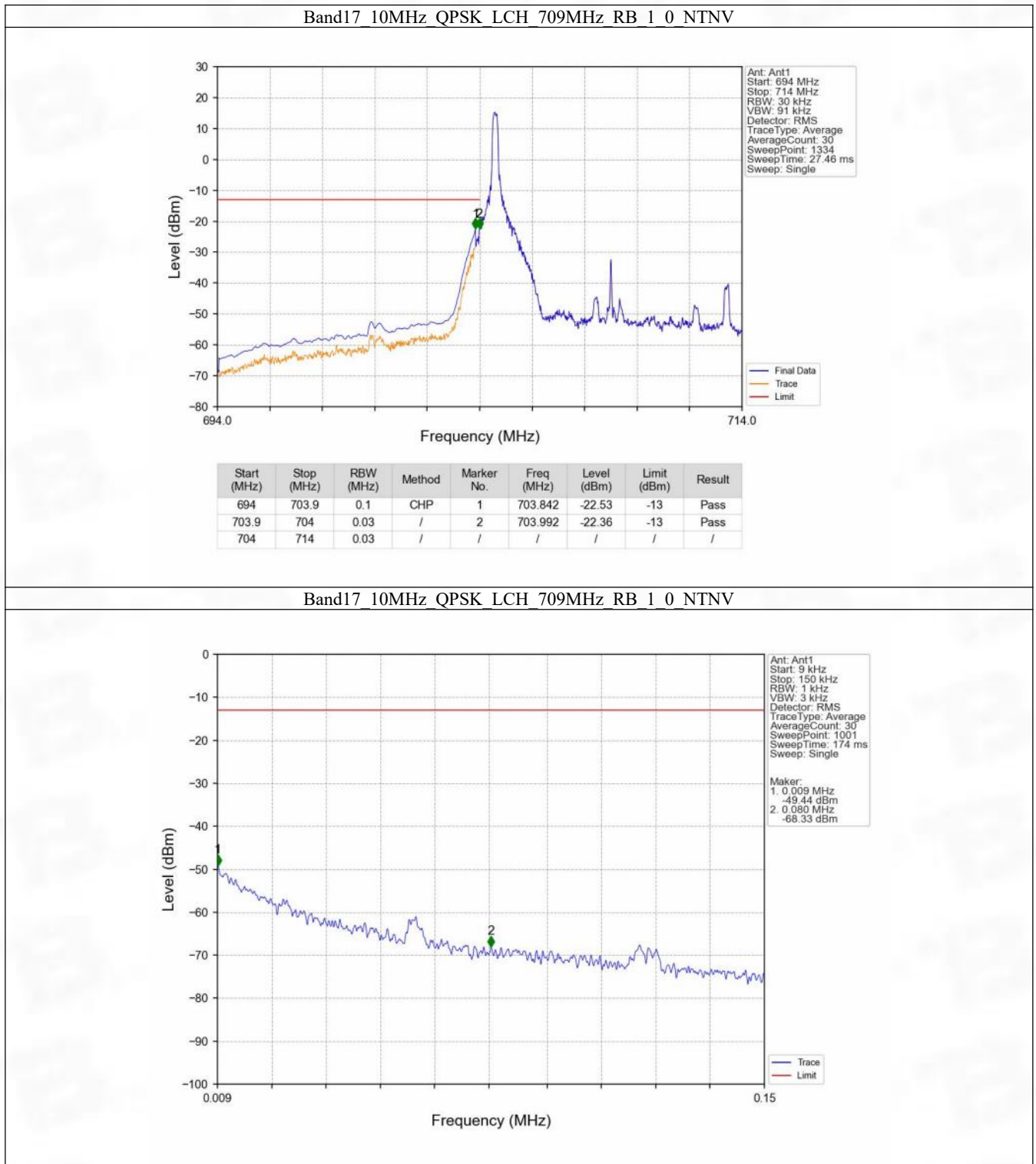
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-17.69	-13	Pass
716.1	721	0.1	CHP	2	716.160	-19.67	-13	Pass

Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

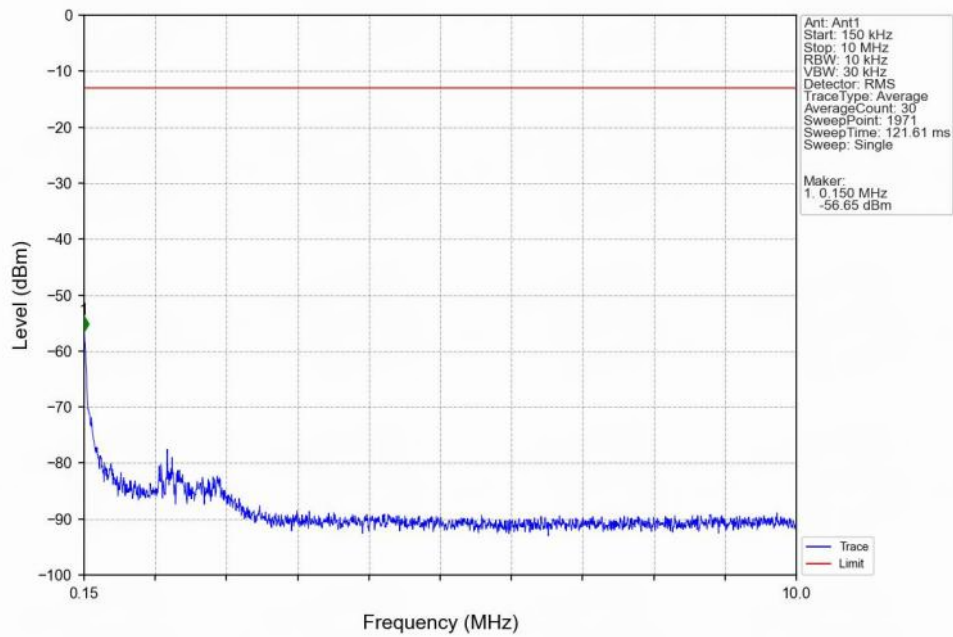


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-32.07	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.51	-13	Pass

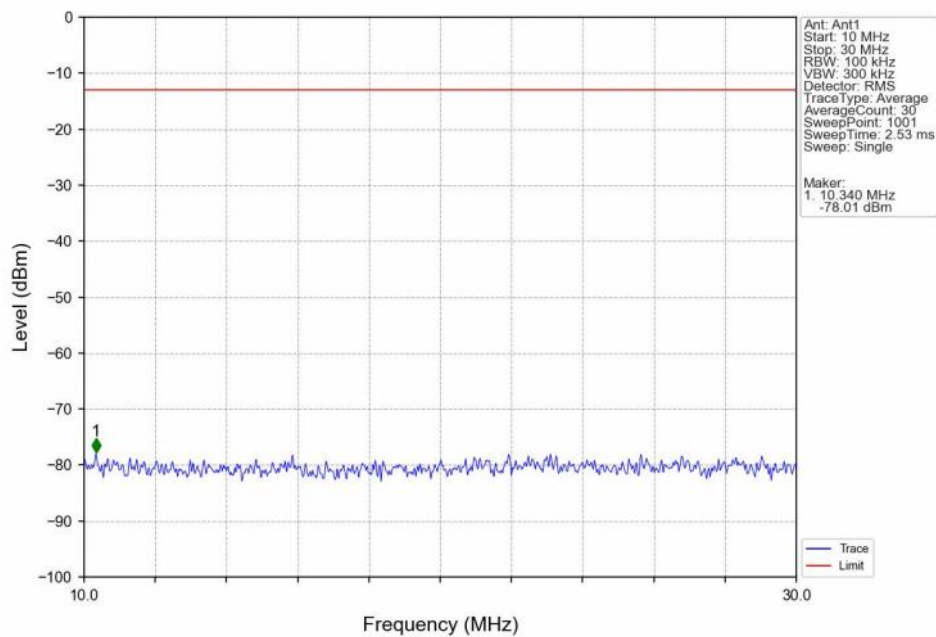
6.2.2 B17_10MHz



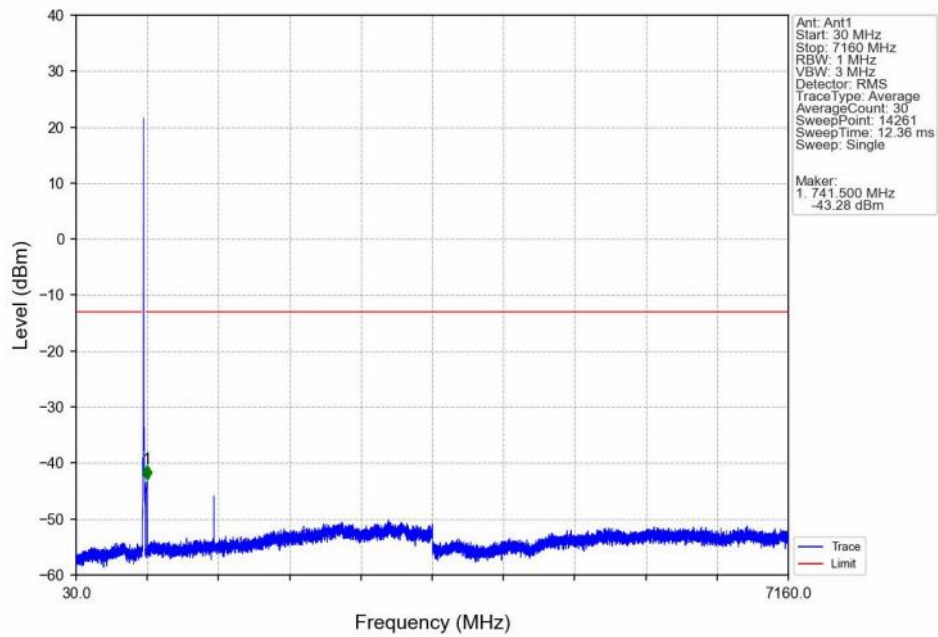
Band17 10MHz QPSK LCH 709MHz RB 1 0 NTNV



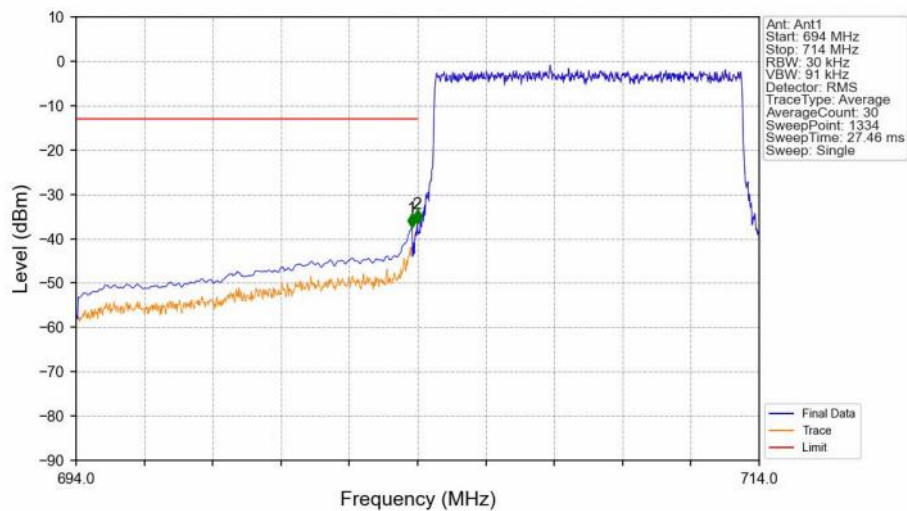
Band17 10MHz QPSK LCH 709MHz RB 1 0 NTNV



Band17 10MHz QPSK LCH 709MHz RB 1 0 NTNV

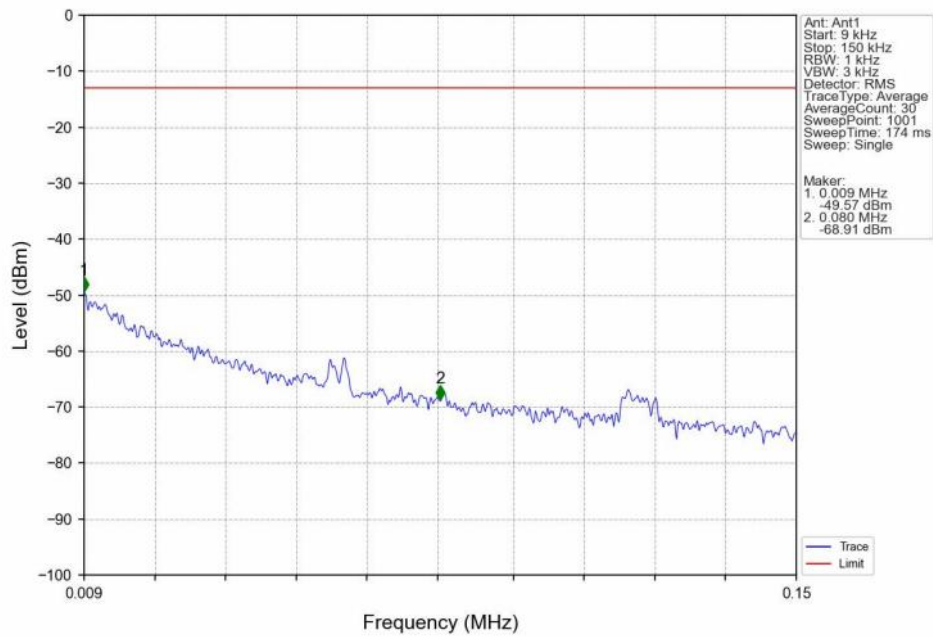


Band17 10MHz QPSK LCH 709MHz RB 50 0 NTNV

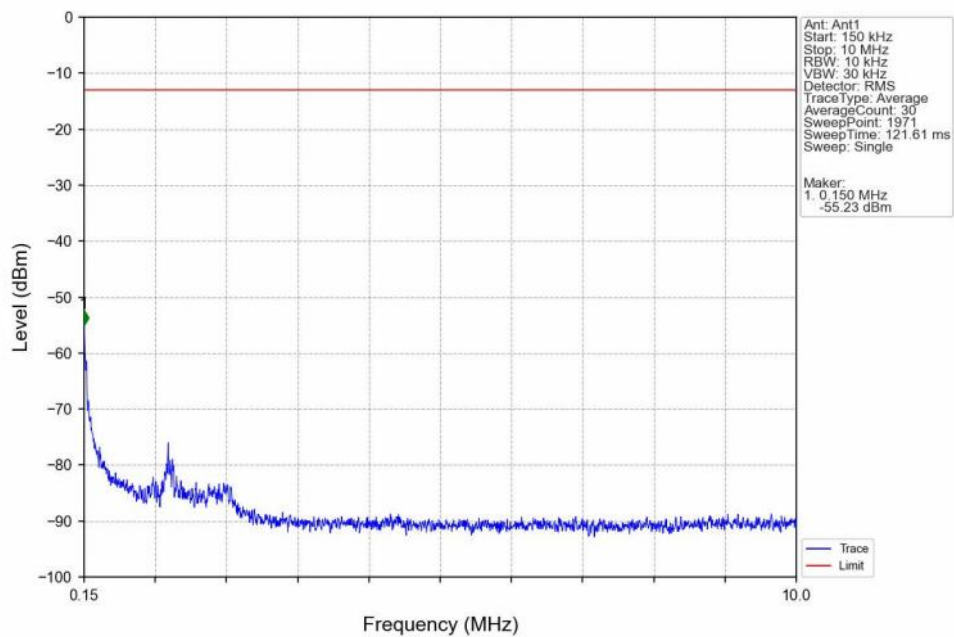


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.827	-37.57	-13	Pass
703.9	704	0.03	/	2	703.992	-36.62	-13	Pass
704	714	0.03	/	/	/	/	/	/

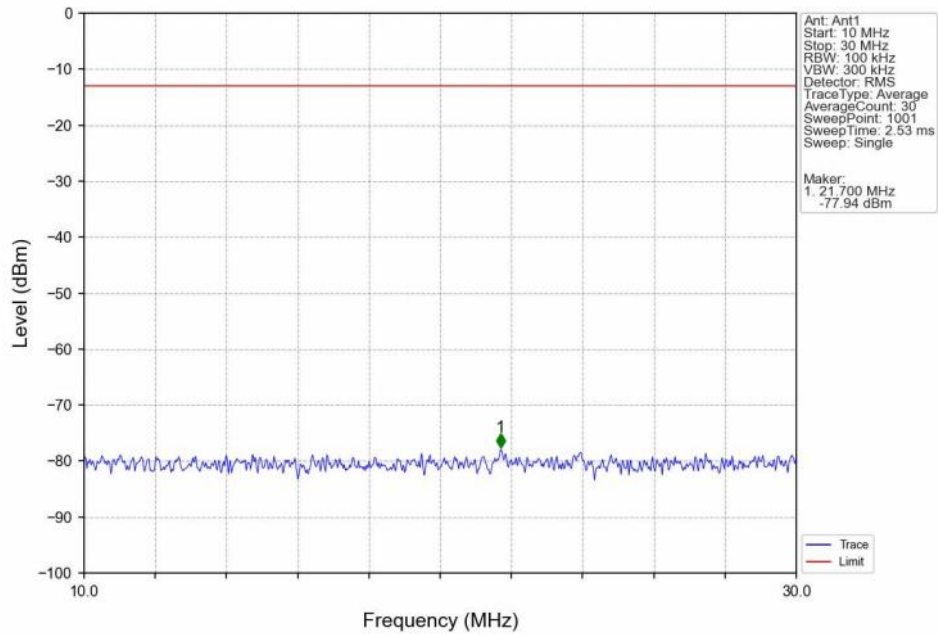
Band17 10MHz QPSK MCH 710MHz RB 1 0 NTNV



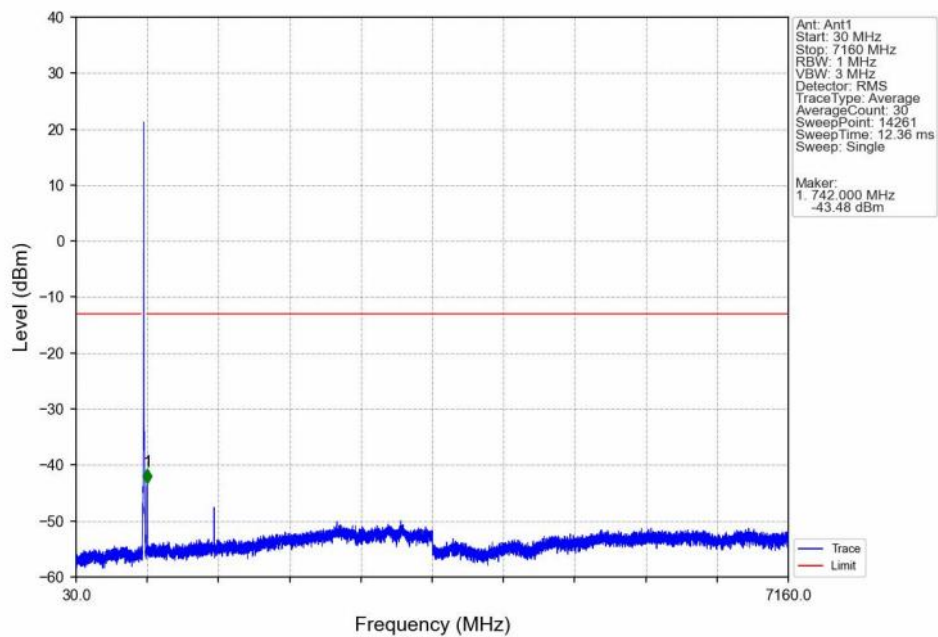
Band17 10MHz QPSK MCH 710MHz RB 1 0 NTNV



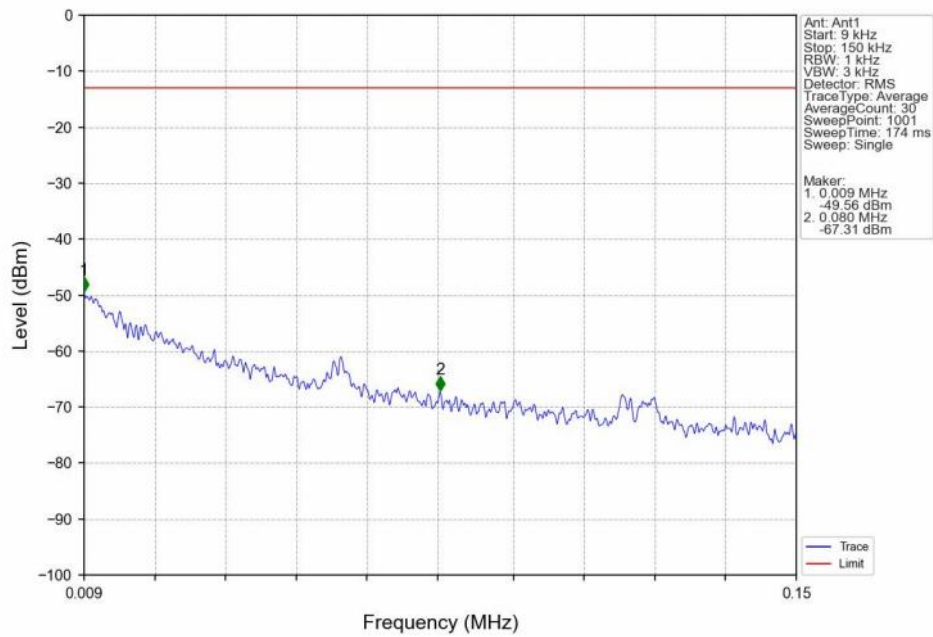
Band17 10MHz QPSK MCH 710MHz RB 1 0 NTNV



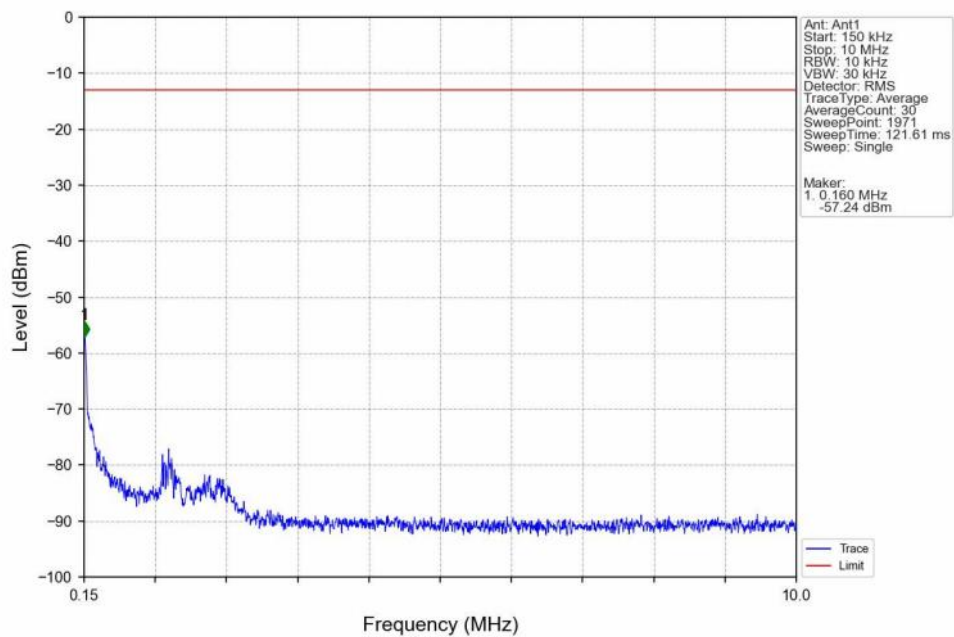
Band17 10MHz QPSK MCH 710MHz RB 1 0 NTNV



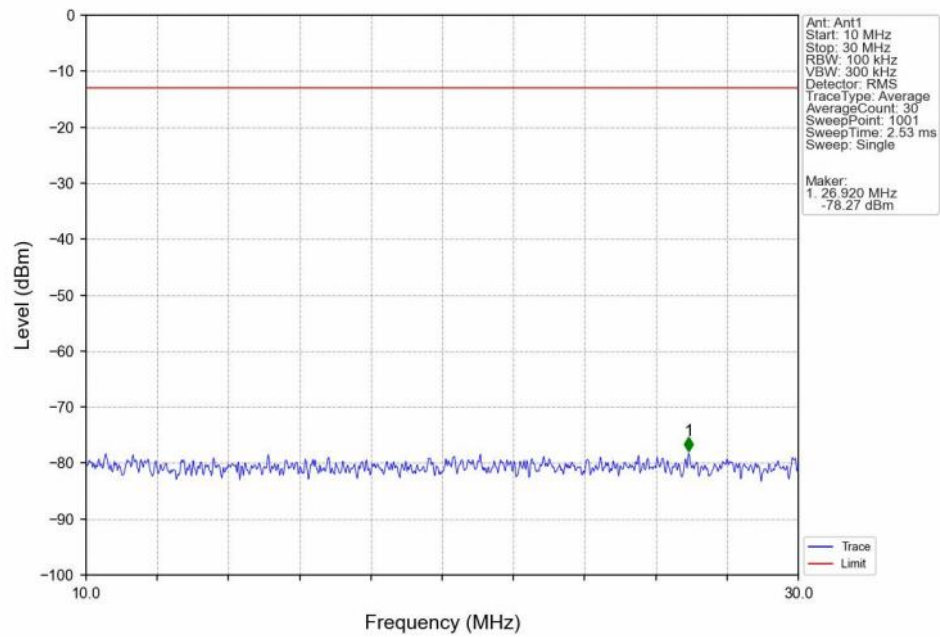
Band17 10MHz QPSK HCH 711MHz RB 1 0 NTNV



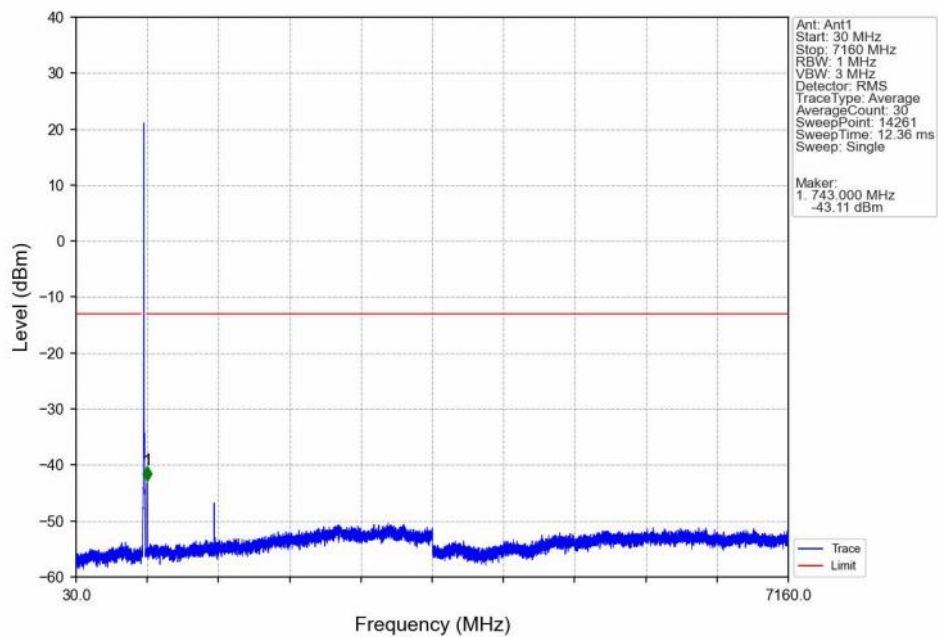
Band17 10MHz QPSK HCH 711MHz RB 1 0 NTNV



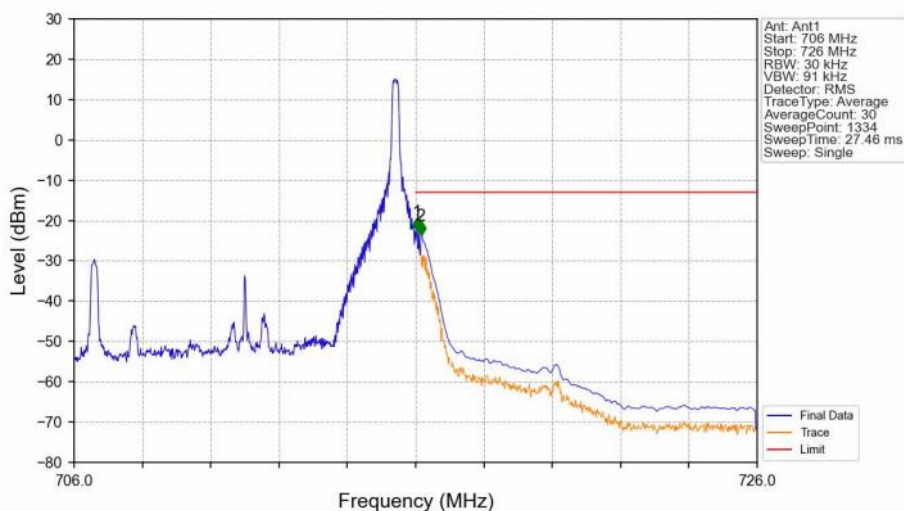
Band17 10MHz QPSK HCH 711MHz RB 1 0 NTNV



Band17 10MHz QPSK HCH 711MHz RB 1 0 NTNV

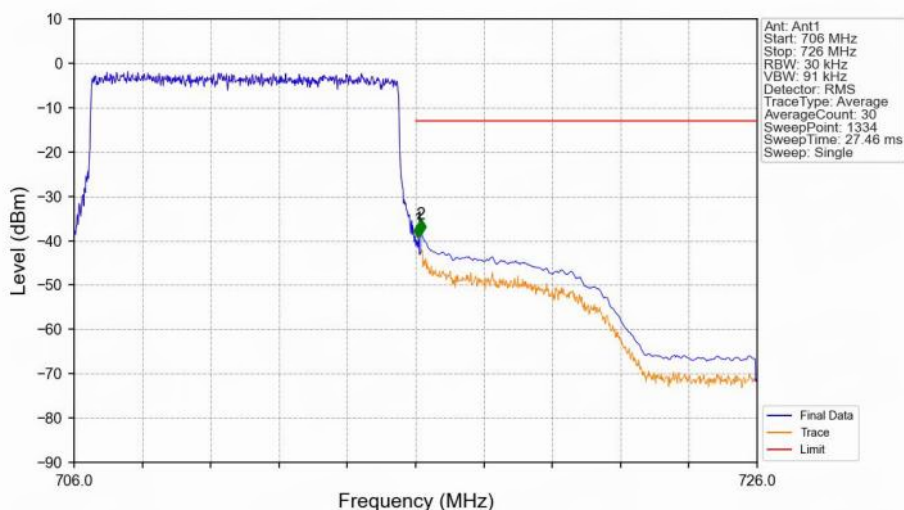


Band17 10MHz QPSK HCH 711MHz RB 1 49 NTNV



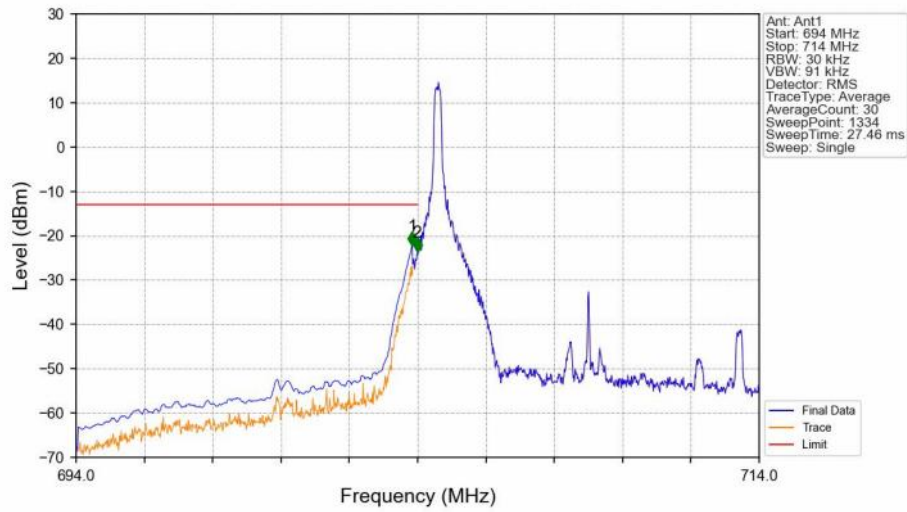
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-22.59	-13	Pass
716.1	726	0.1	CHP	2	716.158	-23.63	-13	Pass

Band17 10MHz QPSK HCH 711MHz RB 50 0 NTNV

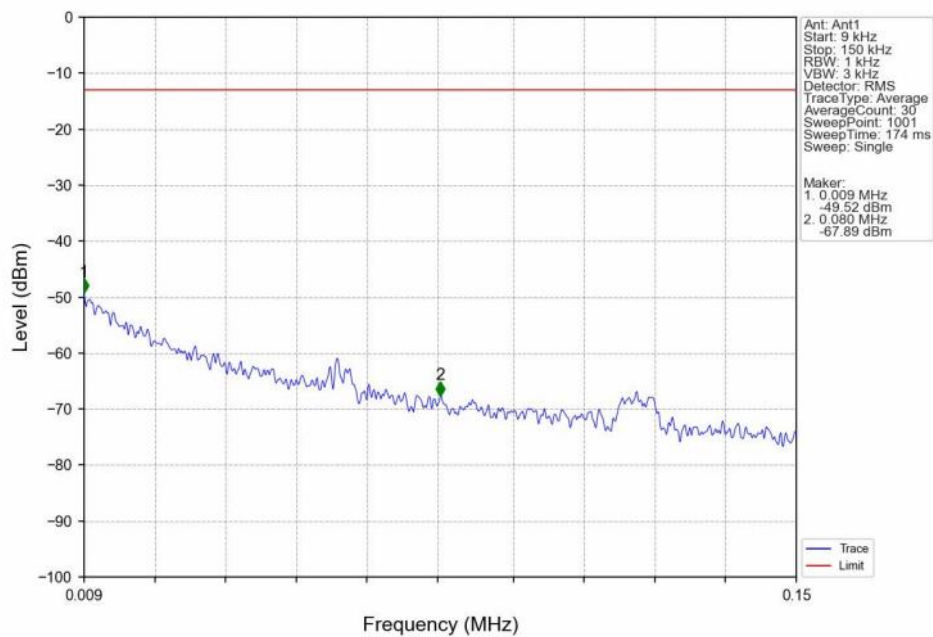


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.083	-39.39	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.35	-13	Pass

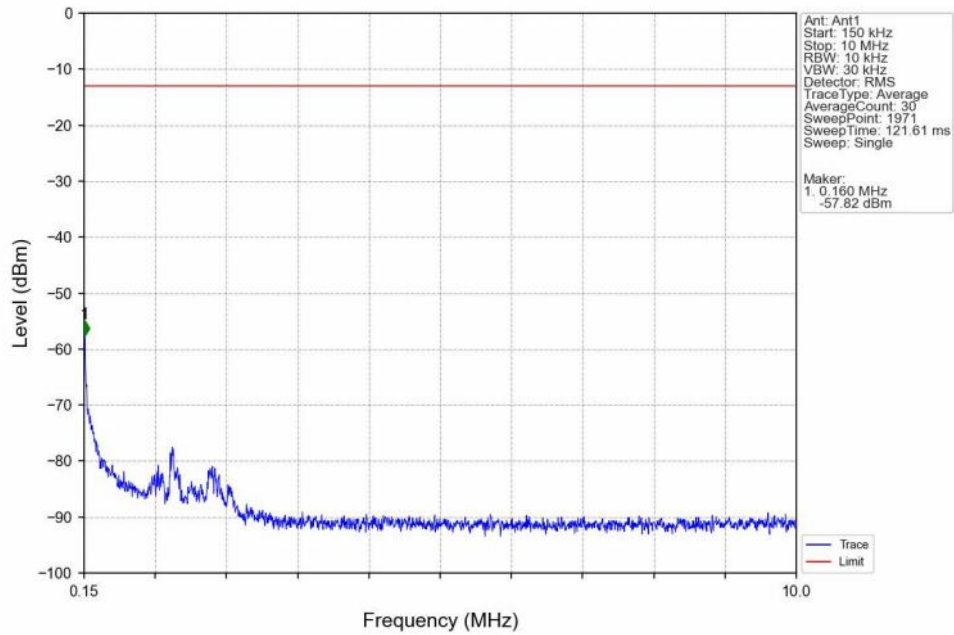
Band17 10MHz 16QAM LCH 709MHz RB 1 0 NTNV



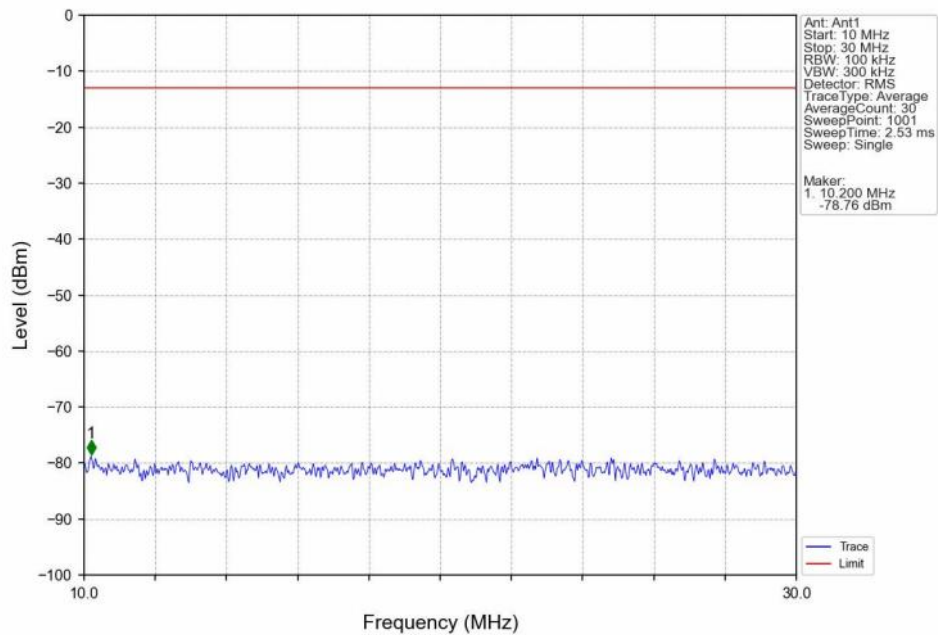
Band17 10MHz 16QAM LCH 709MHz RB 1 0 NTNV



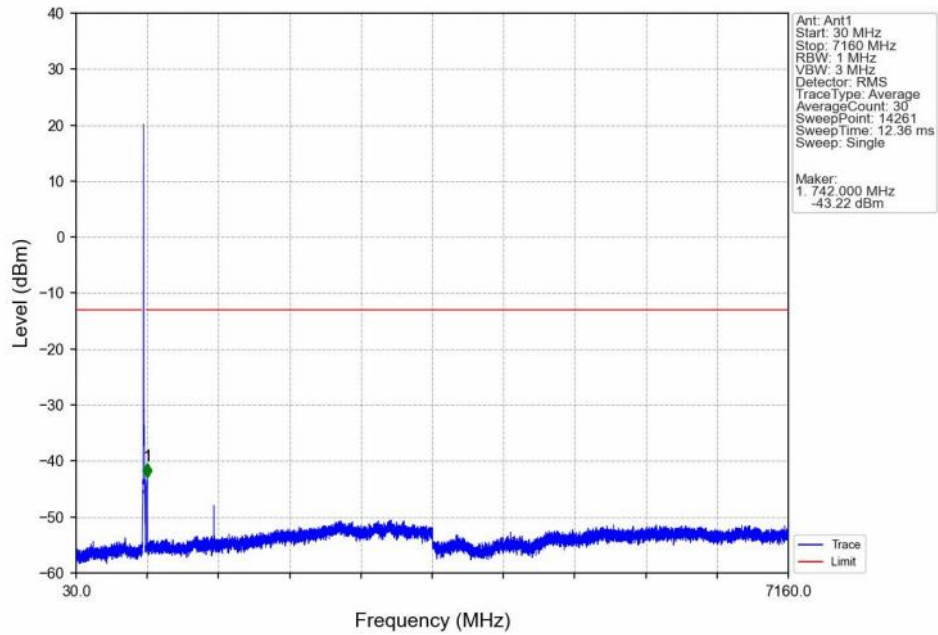
Band17 10MHz 16QAM LCH 709MHz RB 1 0 NTNV



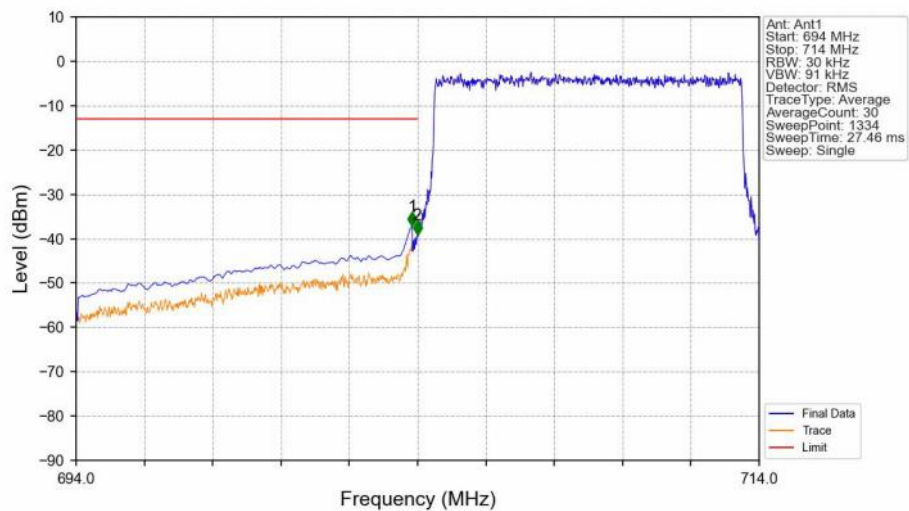
Band17 10MHz 16QAM LCH 709MHz RB 1 0 NTNV



Band17 10MHz 16QAM LCH 709MHz RB 1 0 NTNV

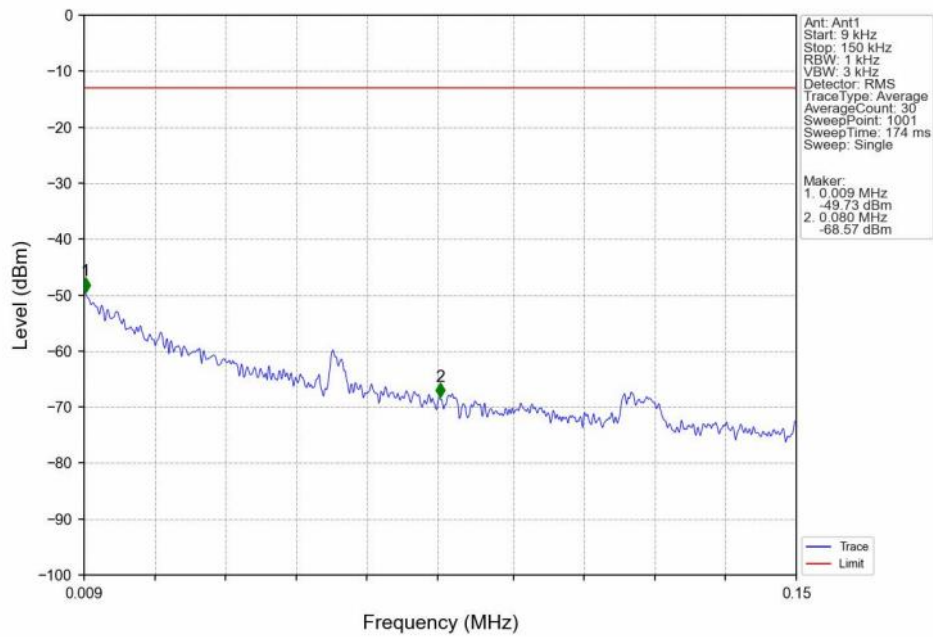


Band17 10MHz 16QAM LCH 709MHz RB 50 0 NTNV

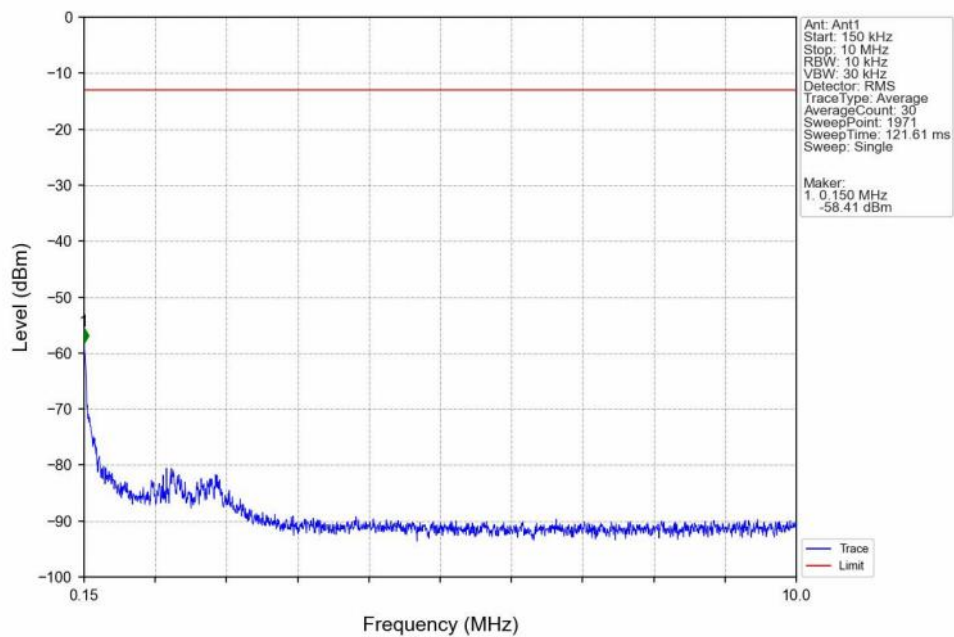


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-37.07	-13	Pass
703.9	704	0.03	/	2	703.992	-39.12	-13	Pass
704	714	0.03	/	/	/	/	/	/

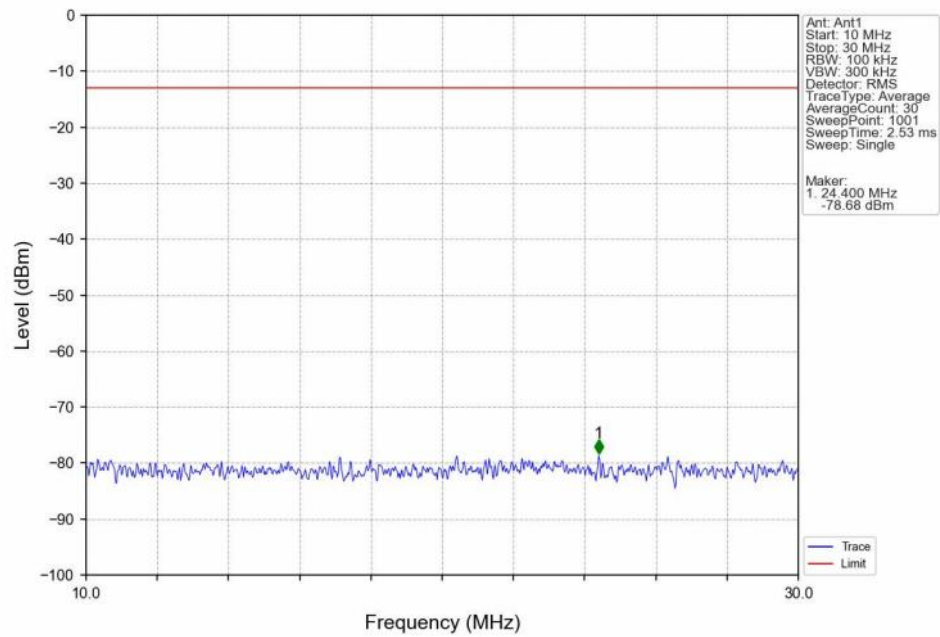
Band17 10MHz 16QAM MCH 710MHz RB 1 0 NTNV



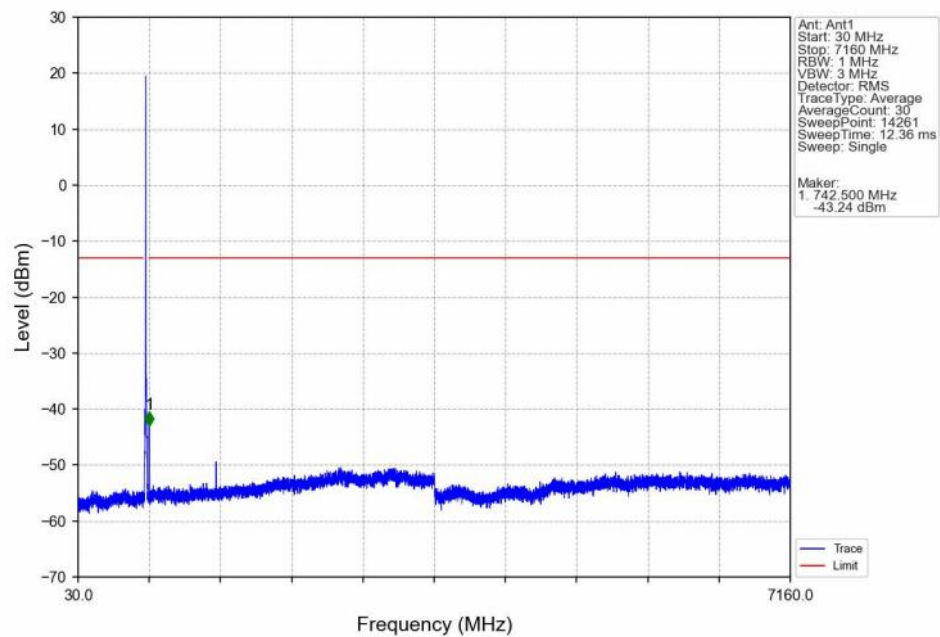
Band17 10MHz 16QAM MCH 710MHz RB 1 0 NTNV



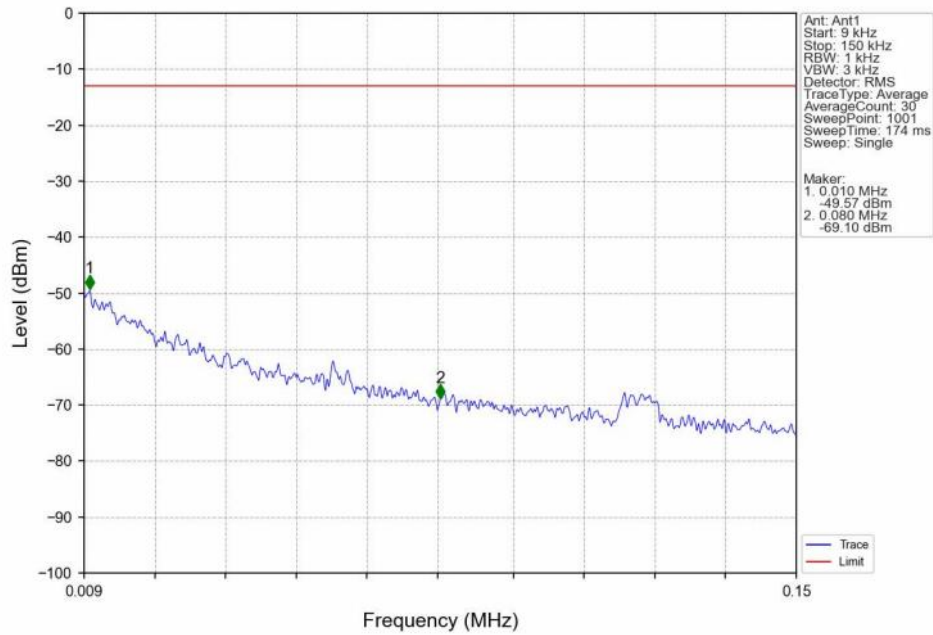
Band17 10MHz 16QAM MCH 710MHz RB 1 0 NTNV



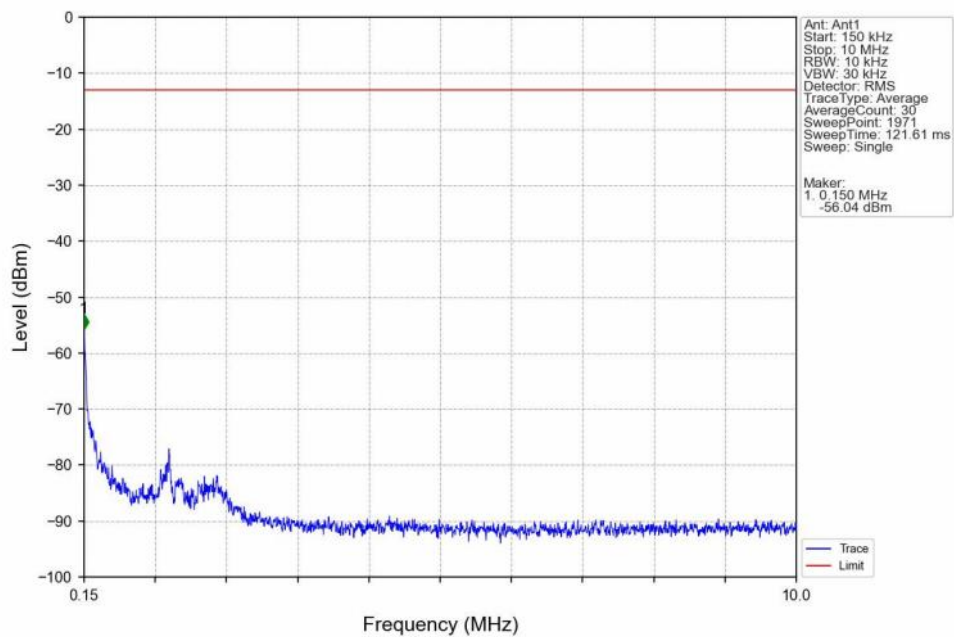
Band17 10MHz 16QAM MCH 710MHz RB 1 0 NTNV



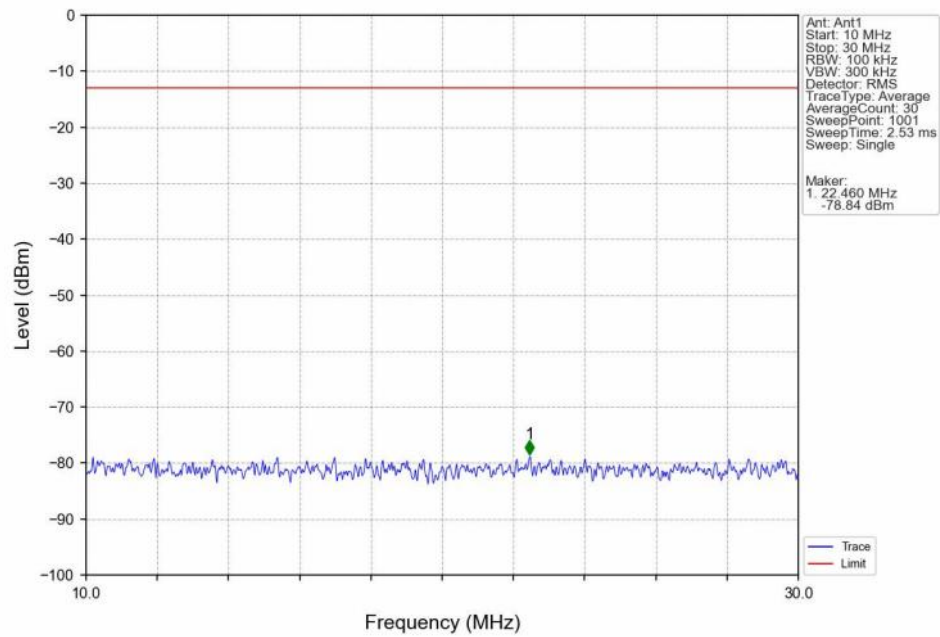
Band17 10MHz 16QAM HCH 711MHz RB 1 0 NTV



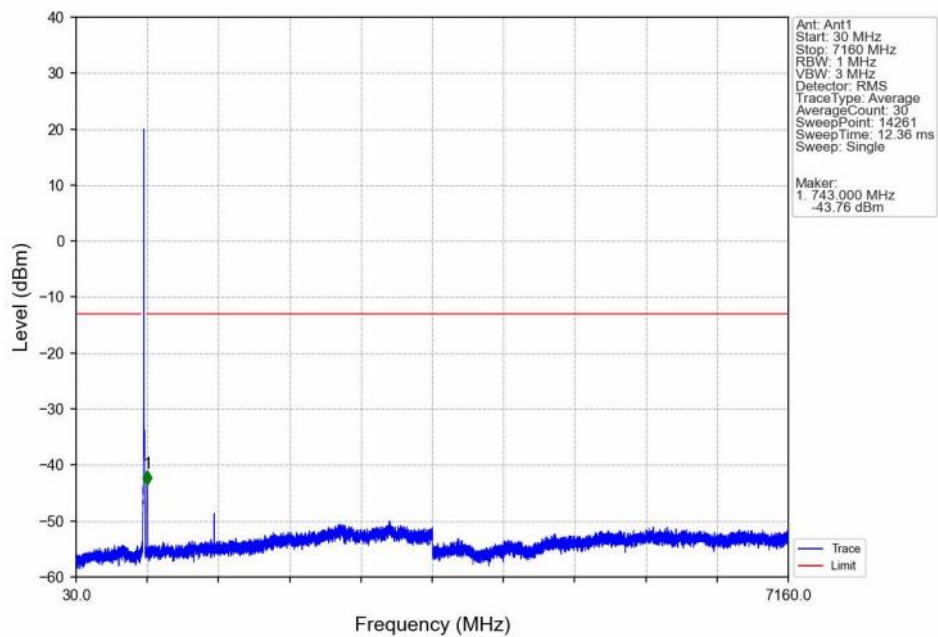
Band17 10MHz 16QAM HCH 711MHz RB 1 0 NTV



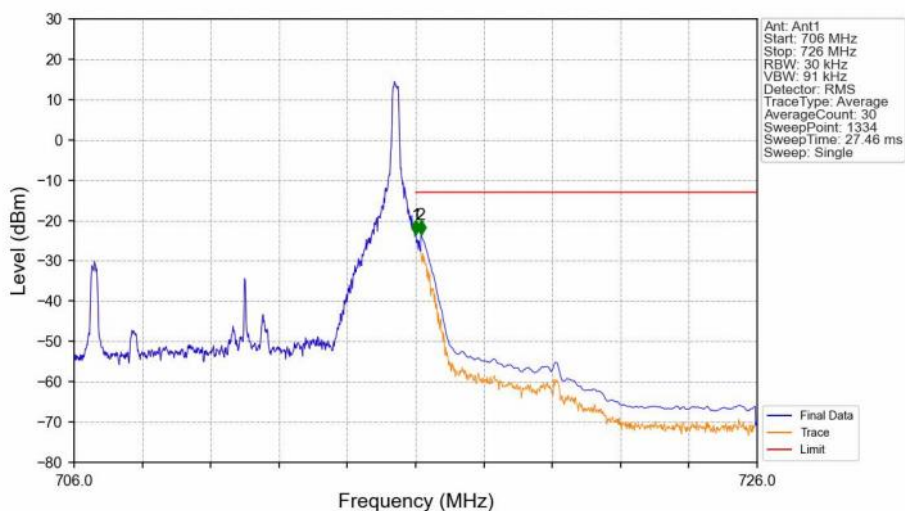
Band17 10MHz 16QAM HCH 711MHz RB 1 0 NTV



Band17 10MHz 16QAM HCH 711MHz RB 1 0 NTV

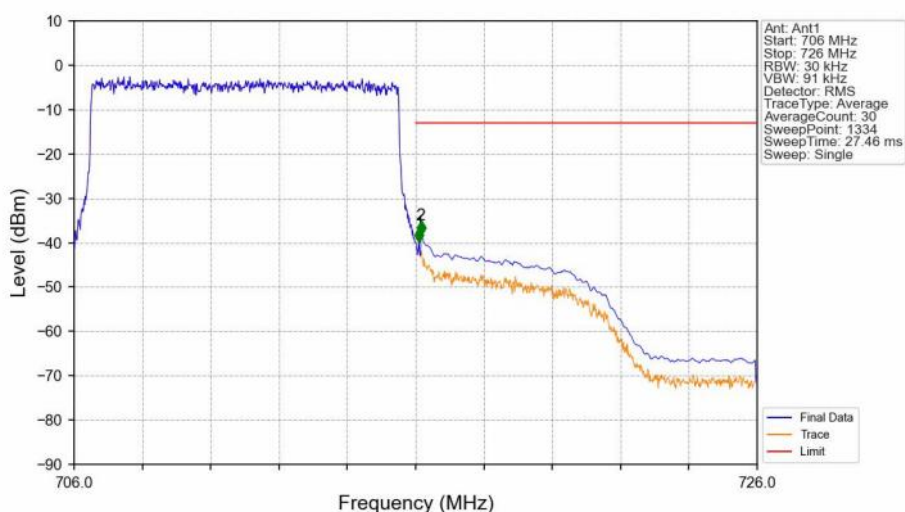


Band17 10MHz 16QAM HCH 711MHz RB 1 49 NTNV



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	716.008	-23.45	-13	Pass
716.1	726	0.1	CHP	2	716.158	-23.38	-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	716.098	-39.84	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.19	-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	0.1306	0.0144	ppm	4M58G7D	27H	21.16
17	5	706.5	713.5	0.1072	0.0163	ppm	4M60W7D	27H	20.30
17	10	709	711	0.1211	0.0147	ppm	9M08G7D	27H	20.83
17	10	709	711	0.1074	0.0135	ppm	9M07W7D	27H	20.31

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	0.0473	0.0144	ppm	4M58G7D	27H	16.75
17	5	706.5	713.5	0.0388	0.0163	ppm	4M60W7D	27H	15.89
17	10	709	711	0.0439	0.0147	ppm	9M08G7D	27H	16.42
17	10	709	711	0.0389	0.0135	ppm	9M07W7D	27H	15.90