

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	23.53	-17.81	3.57	<=34.77	Pass
			13	23.50	-17.81	3.54	<=34.77	Pass
			24	23.54	-17.81	3.58	<=34.77	Pass
		12	0	22.56	-17.81	2.60	<=34.77	Pass
			6	22.54	-17.81	2.58	<=34.77	Pass
			13	22.56	-17.81	2.60	<=34.77	Pass
		25	0	22.55	-17.81	2.59	<=34.77	Pass
	710	1	0	23.71	-17.81	3.75	<=34.77	Pass
			13	23.70	-17.81	3.74	<=34.77	Pass
			24	23.68	-17.81	3.72	<=34.77	Pass
		12	0	22.47	-17.81	2.51	<=34.77	Pass
			6	22.50	-17.81	2.54	<=34.77	Pass
			13	22.50	-17.81	2.54	<=34.77	Pass
		25	0	22.51	-17.81	2.55	<=34.77	Pass
	713.5	1	0	23.59	-17.81	3.63	<=34.77	Pass
			13	23.52	-17.81	3.56	<=34.77	Pass
			24	23.60	-17.81	3.64	<=34.77	Pass
		12	0	22.60	-17.81	2.64	<=34.77	Pass
			6	22.48	-17.81	2.52	<=34.77	Pass
			13	22.40	-17.81	2.44	<=34.77	Pass
		25	0	22.51	-17.81	2.55	<=34.77	Pass
16QAM	706.5	1	0	22.76	-17.81	2.80	<=34.77	Pass
			13	22.75	-17.81	2.79	<=34.77	Pass
			24	22.78	-17.81	2.82	<=34.77	Pass
		12	0	21.59	-17.81	1.63	<=34.77	Pass
			6	21.54	-17.81	1.58	<=34.77	Pass
			13	21.56	-17.81	1.60	<=34.77	Pass
		25	0	21.56	-17.81	1.60	<=34.77	Pass
	710	1	0	22.45	-17.81	2.49	<=34.77	Pass
			13	22.42	-17.81	2.46	<=34.77	Pass
			24	22.45	-17.81	2.49	<=34.77	Pass
		12	0	21.51	-17.81	1.55	<=34.77	Pass
			6	21.47	-17.81	1.51	<=34.77	Pass
			13	21.49	-17.81	1.53	<=34.77	Pass
		25	0	21.54	-17.81	1.58	<=34.77	Pass
	713.5	1	0	22.68	-17.81	2.72	<=34.77	Pass
			13	22.57	-17.81	2.61	<=34.77	Pass
			24	22.66	-17.81	2.70	<=34.77	Pass
		12	0	21.59	-17.81	1.63	<=34.77	Pass
			6	21.50	-17.81	1.54	<=34.77	Pass
			13	21.40	-17.81	1.44	<=34.77	Pass
		25	0	21.51	-17.81	1.55	<=34.77	Pass

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	23.48	-17.81	3.52	<=34.77	Pass
			25	23.59	-17.81	3.63	<=34.77	Pass
			49	23.55	-17.81	3.59	<=34.77	Pass
		25	0	22.50	-17.81	2.54	<=34.77	Pass
			13	22.54	-17.81	2.58	<=34.77	Pass
			25	22.53	-17.81	2.57	<=34.77	Pass
		50	0	22.55	-17.81	2.59	<=34.77	Pass
			0	23.49	-17.81	3.53	<=34.77	Pass
			25	23.55	-17.81	3.59	<=34.77	Pass
	710	1	49	23.51	-17.81	3.55	<=34.77	Pass
			0	22.47	-17.81	2.51	<=34.77	Pass
			13	22.54	-17.81	2.58	<=34.77	Pass
		25	25	22.45	-17.81	2.49	<=34.77	Pass
			0	22.50	-17.81	2.54	<=34.77	Pass
			0	23.55	-17.81	3.59	<=34.77	Pass
		50	25	23.65	-17.81	3.69	<=34.77	Pass
			49	23.62	-17.81	3.66	<=34.77	Pass
			0	22.46	-17.81	2.50	<=34.77	Pass
	711	25	13	22.53	-17.81	2.57	<=34.77	Pass
			25	22.37	-17.81	2.41	<=34.77	Pass
			0	22.45	-17.81	2.49	<=34.77	Pass
16QAM	709	1	0	22.97	-17.81	3.01	<=34.77	Pass
			25	23.04	-17.81	3.08	<=34.77	Pass
			49	23.03	-17.81	3.07	<=34.77	Pass
		25	0	21.58	-17.81	1.62	<=34.77	Pass
			13	21.60	-17.81	1.64	<=34.77	Pass
			25	21.55	-17.81	1.59	<=34.77	Pass
		50	0	21.51	-17.81	1.55	<=34.77	Pass
			0	22.65	-17.81	2.69	<=34.77	Pass
			25	22.71	-17.81	2.75	<=34.77	Pass
	710	1	49	22.70	-17.81	2.74	<=34.77	Pass
			0	21.51	-17.81	1.55	<=34.77	Pass
			13	21.58	-17.81	1.62	<=34.77	Pass
		25	25	21.45	-17.81	1.49	<=34.77	Pass
			0	21.46	-17.81	1.50	<=34.77	Pass
			0	23.02	-17.81	3.06	<=34.77	Pass
		50	25	23.10	-17.81	3.14	<=34.77	Pass
			49	23.05	-17.81	3.09	<=34.77	Pass
			0	21.53	-17.81	1.57	<=34.77	Pass
	711	25	13	21.61	-17.81	1.65	<=34.77	Pass
			25	21.44	-17.81	1.48	<=34.77	Pass
			0	21.47	-17.81	1.51	<=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	1.717	0.0024	-2.5 to 2.5	Pass
					3.85	-2.046	-0.0029	-2.5 to 2.5	Pass
					4.43	-2.432	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-1.359	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-1.373	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-3.018	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-1.745	-0.0025	-2.5 to 2.5	Pass
				40	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				50	3.85	1.302	0.0018	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-0.844	-0.0012	-2.5 to 2.5	Pass
					3.85	1.659	0.0023	-2.5 to 2.5	Pass
					4.43	-1.030	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	3.691	0.0052	-2.5 to 2.5	Pass
				-20	3.85	1.001	0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.631	0.0023	-2.5 to 2.5	Pass
				0	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	-4.177	-0.0059	-2.5 to 2.5	Pass
				30	3.85	1.516	0.0021	-2.5 to 2.5	Pass
				40	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	2.475	0.0035	-2.5 to 2.5	Pass
					3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
					4.43	-1.230	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	2.117	0.0030	-2.5 to 2.5	Pass
				-10	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				10	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				30	3.85	0.615	0.0009	-2.5 to 2.5	Pass
				40	3.85	0.029	0.0000	-2.5 to 2.5	Pass
16QAM	706.5	25	0	20	3.27	-0.186	-0.0003	-2.5 to 2.5	Pass
					3.85	0.501	0.0007	-2.5 to 2.5	Pass
					4.43	-2.303	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	0.629	0.0009	-2.5 to 2.5	Pass
				-10	3.85	-2.918	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-3.018	-0.0043	-2.5 to 2.5	Pass
				40	3.85	0.601	0.0009	-2.5 to 2.5	Pass
				50	3.85	-1.817	-0.0026	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-0.629	-0.0009	-2.5 to 2.5	Pass
					3.85	-4.892	-0.0069	-2.5 to 2.5	Pass
					4.43	-1.688	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	0.844	0.0012	-2.5 to 2.5	Pass
				-20	3.85	-3.519	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	0.014	0.0000	-2.5 to 2.5	Pass

				0	3.85	-3.777	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-2.761	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-2.804	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-3.233	-0.0046	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	0.086	0.0001	-2.5 to 2.5	Pass
					3.85	1.974	0.0028	-2.5 to 2.5	Pass
					4.43	0.172	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-1.760	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-1.774	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
				10	3.85	1.645	0.0023	-2.5 to 2.5	Pass
				30	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				40	3.85	1.659	0.0023	-2.5 to 2.5	Pass
				50	3.85	0.272	0.0004	-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	-2.532	-0.0036	-2.5 to 2.5	Pass
					3.85	-1.760	-0.0025	-2.5 to 2.5	Pass
					4.43	-1.974	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-1.745	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-2.017	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-2.317	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
	710	50	0	50	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				20	3.27	-0.043	-0.0001	-2.5 to 2.5	Pass
					3.85	2.203	0.0031	-2.5 to 2.5	Pass
					4.43	-1.531	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-1.802	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				10	3.85	0.558	0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
	711	50	0	40	3.85	-2.289	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-1.345	-0.0019	-2.5 to 2.5	Pass
				20	3.27	-2.317	-0.0033	-2.5 to 2.5	Pass
					3.85	-1.745	-0.0025	-2.5 to 2.5	Pass
					4.43	2.661	0.0037	-2.5 to 2.5	Pass
				-30	3.85	2.275	0.0032	-2.5 to 2.5	Pass
				-20	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				10	3.85	1.302	0.0018	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.85	-1.431	-0.0020	-2.5 to 2.5	Pass
					4.43	-2.332	-0.0033	-2.5 to 2.5	Pass
					3.27	-2.403	-0.0034	-2.5 to 2.5	Pass
				50	3.85	1.173	0.0016	-2.5 to 2.5	Pass

				-30	3.85	-1.945	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-2.475	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass
	710	50	0	20	3.27	0.129	0.0002	-2.5 to 2.5	Pass
					3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
					4.43	0.343	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
				0	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				10	3.85	-3.004	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-1.574	-0.0022	-2.5 to 2.5	Pass
				50	3.85	0.286	0.0004	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.372	-0.0005	-2.5 to 2.5	Pass
					3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
					4.43	0.029	0.0000	-2.5 to 2.5	Pass
				-30	3.85	1.273	0.0018	-2.5 to 2.5	Pass
				-20	3.85	0.186	0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.873	0.0012	-2.5 to 2.5	Pass
				0	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-0.873	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

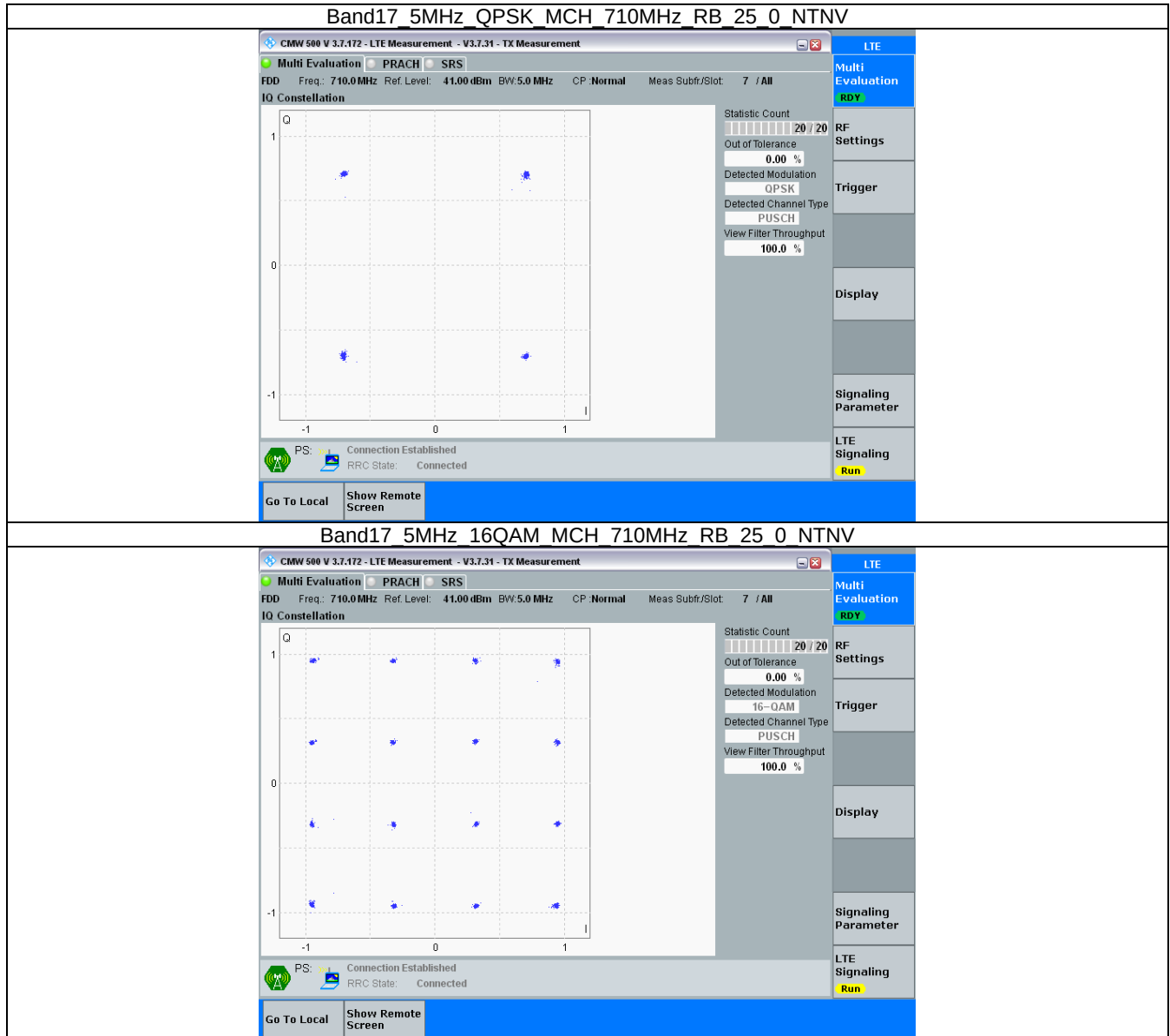
Band: 17 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

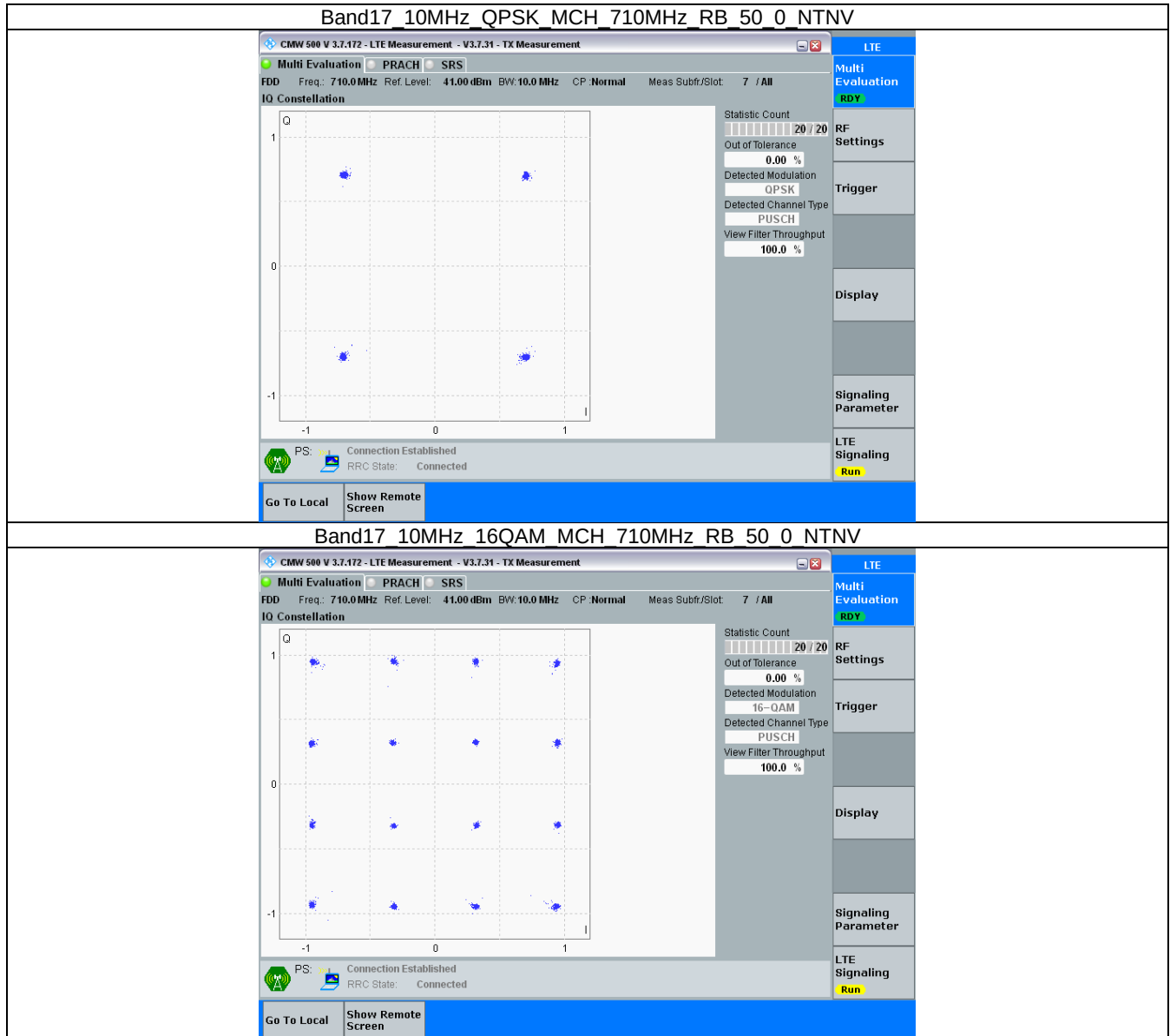
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

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	4.544	/	Pass
		710	25	0	4.541	/	Pass
		713.5	25	0	4.535	/	Pass
	16QAM	706.5	25	0	4.546	/	Pass
		710	25	0	4.536	/	Pass
		713.5	25	0	4.527	/	Pass
10	QPSK	709	50	0	9.070	/	Pass
		710	50	0	9.044	/	Pass
		711	50	0	9.015	/	Pass
	16QAM	709	50	0	9.052	/	Pass
		710	50	0	9.029	/	Pass
		711	50	0	9.025	/	Pass

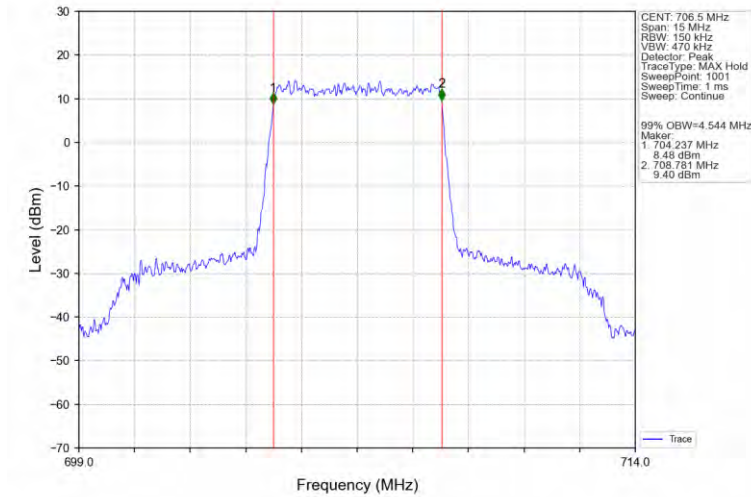
4.1.2 Band17_XDB

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.004	/	Pass
		710	25	0	5.036	/	Pass
		713.5	25	0	5.031	/	Pass
	16QAM	706.5	25	0	5.105	/	Pass
		710	25	0	5.042	/	Pass
		713.5	25	0	5.000	/	Pass
10	QPSK	709	50	0	10.017	/	Pass
		710	50	0	9.968	/	Pass
		711	50	0	9.913	/	Pass
	16QAM	709	50	0	9.964	/	Pass
		710	50	0	9.954	/	Pass
		711	50	0	9.912	/	Pass

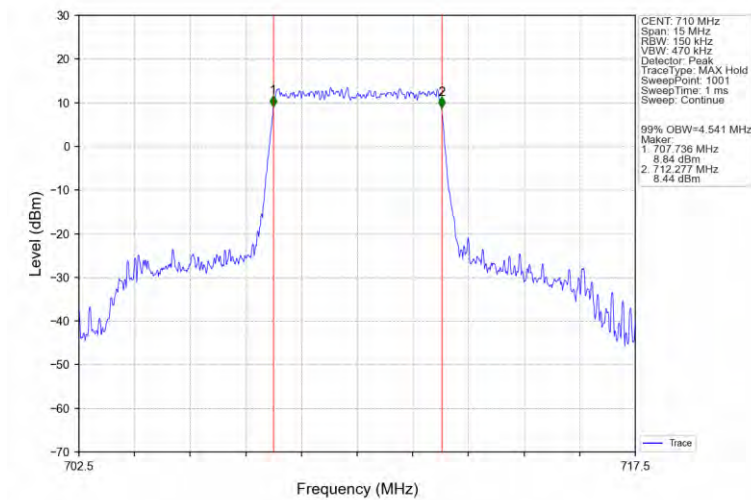
4.2 Test Graph

4.2.1 Band17_OBW

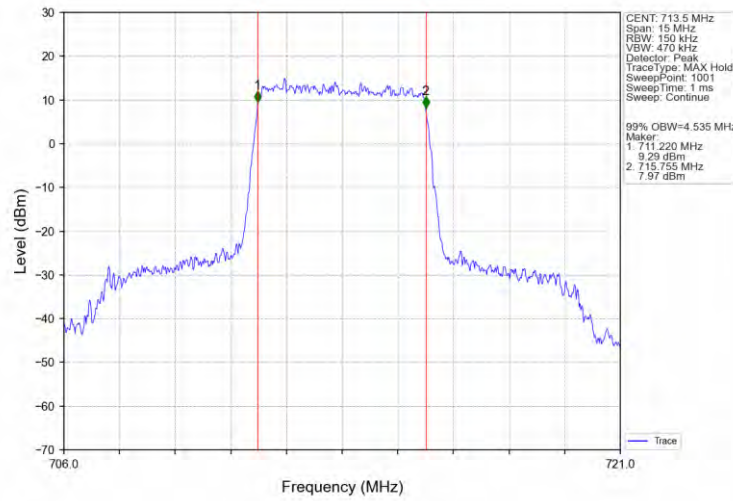
Band17 5MHz QPSK LCH 706.5MHz RB 25 0 NTNV



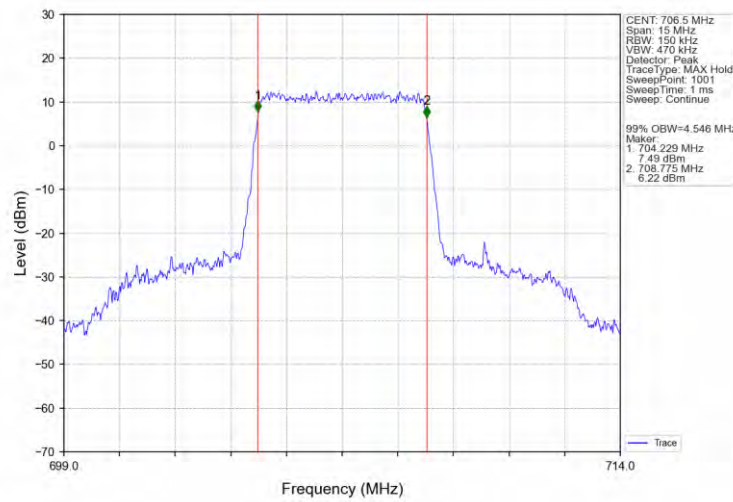
Band17 5MHz QPSK MCH 710MHz RB 25 0 NTNV



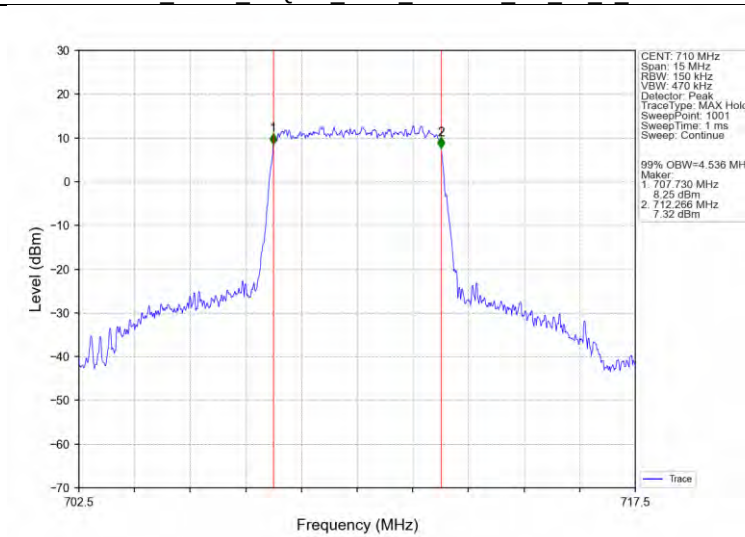
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



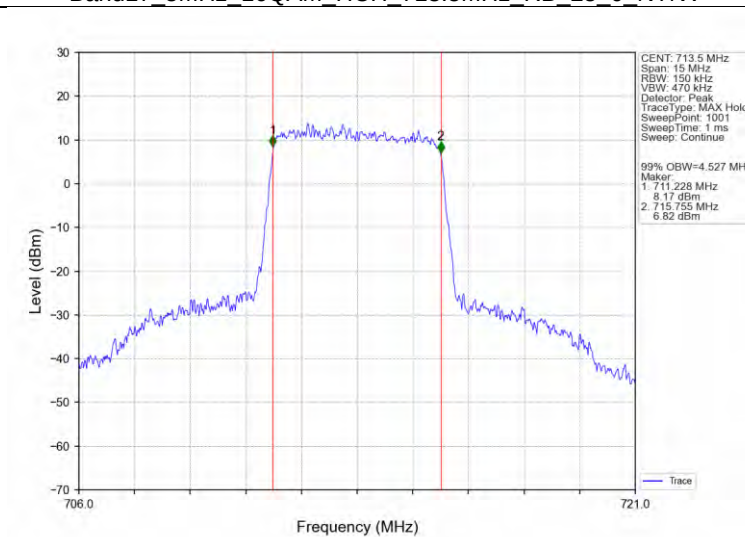
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



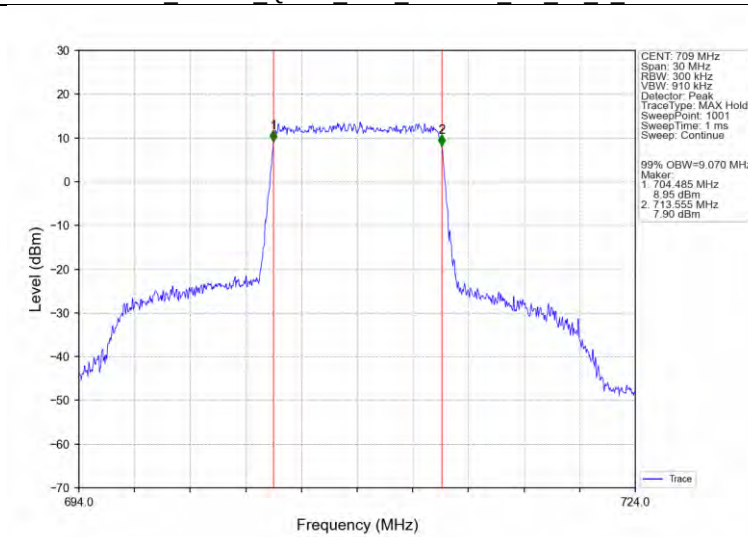
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



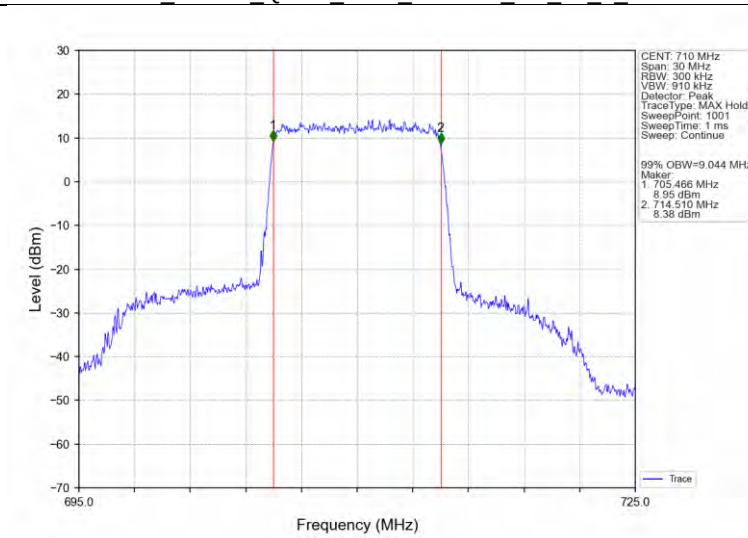
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



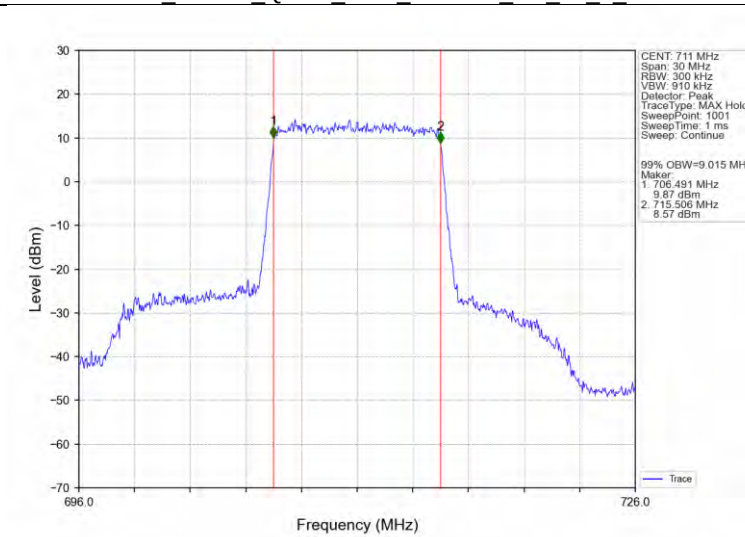
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



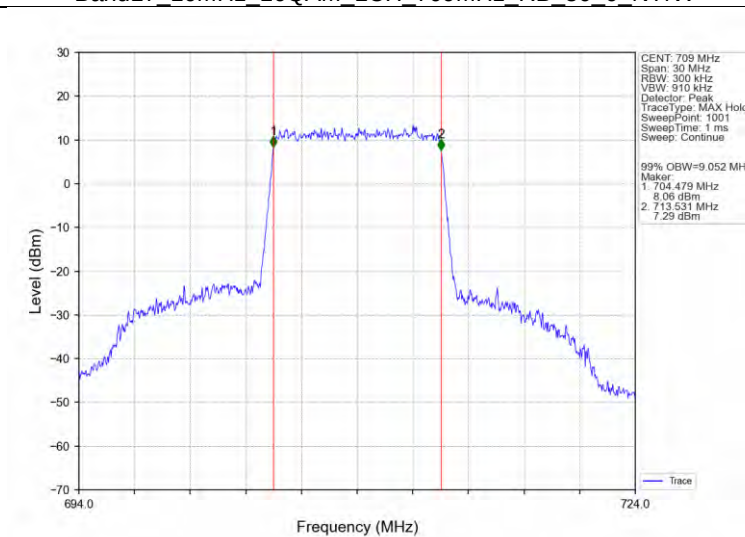
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



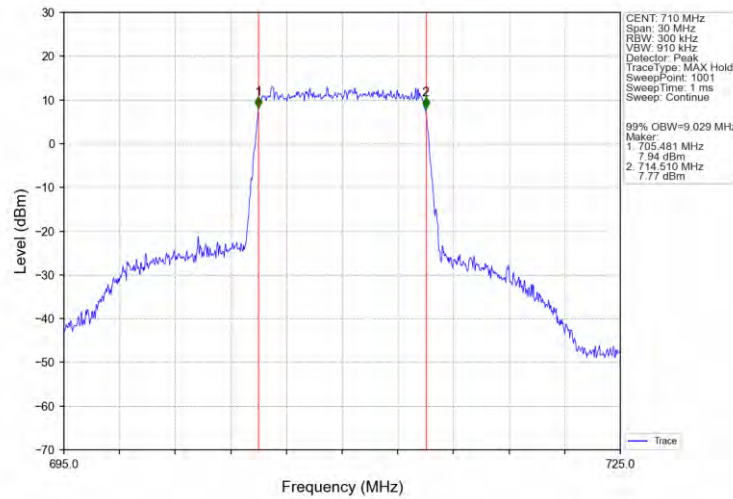
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



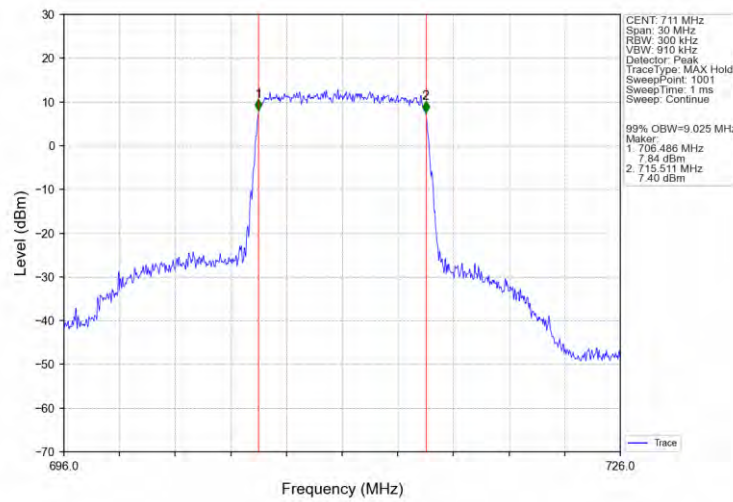
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV

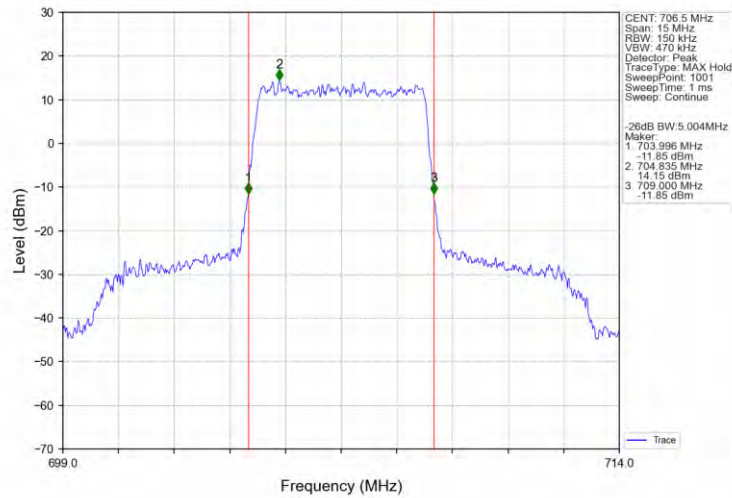


Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

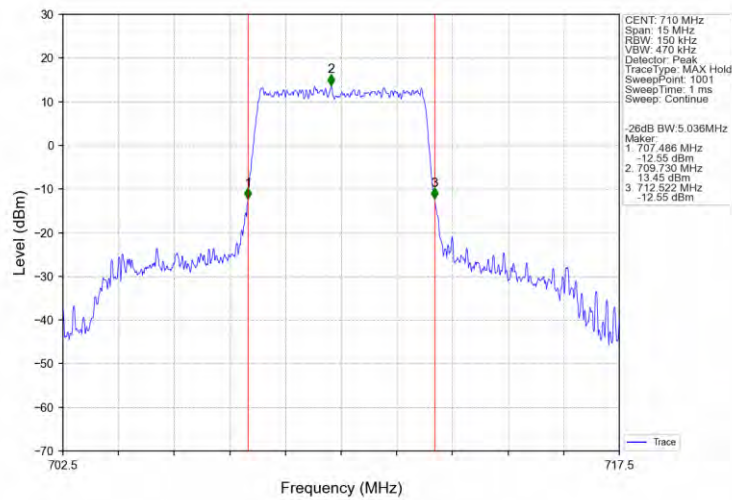


4.2.2 Band17_XDB

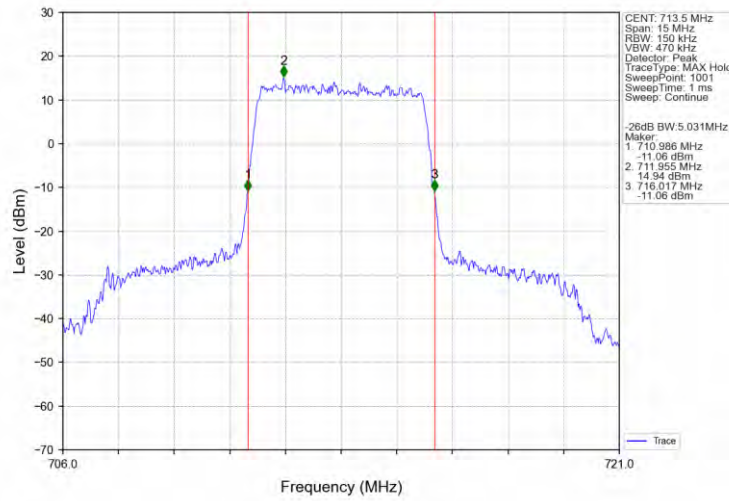
Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



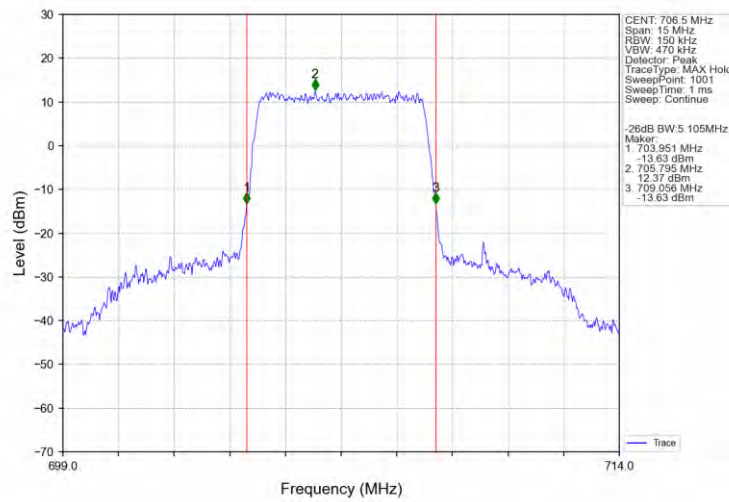
Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV



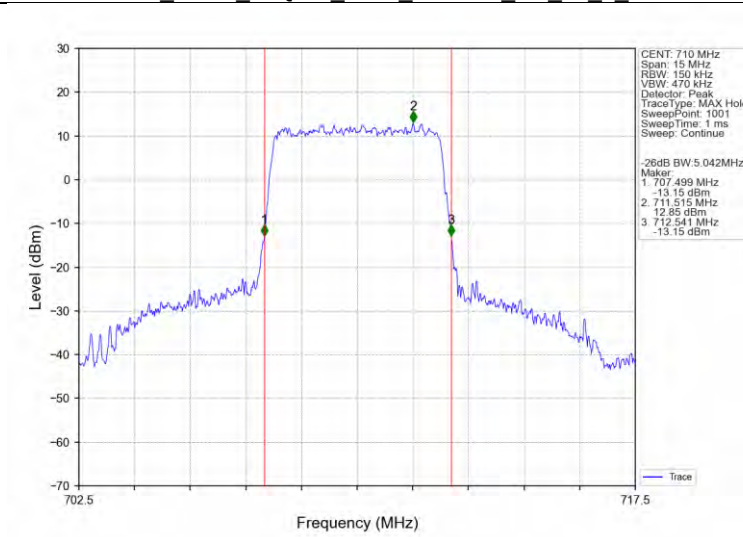
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



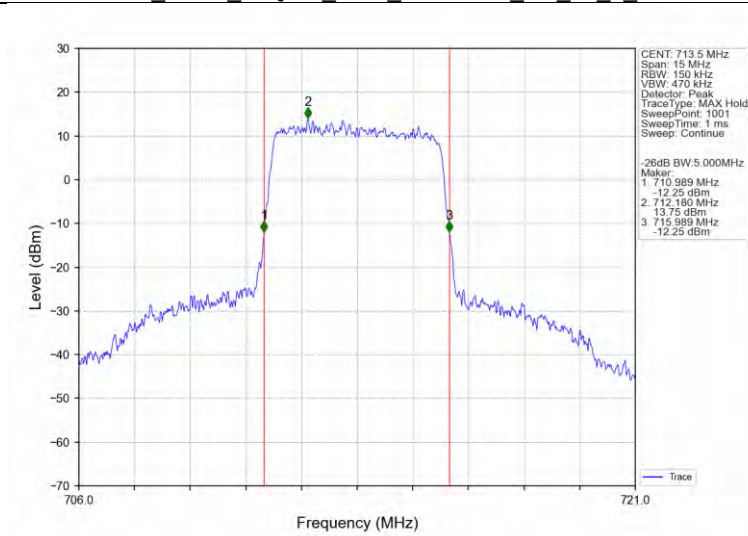
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



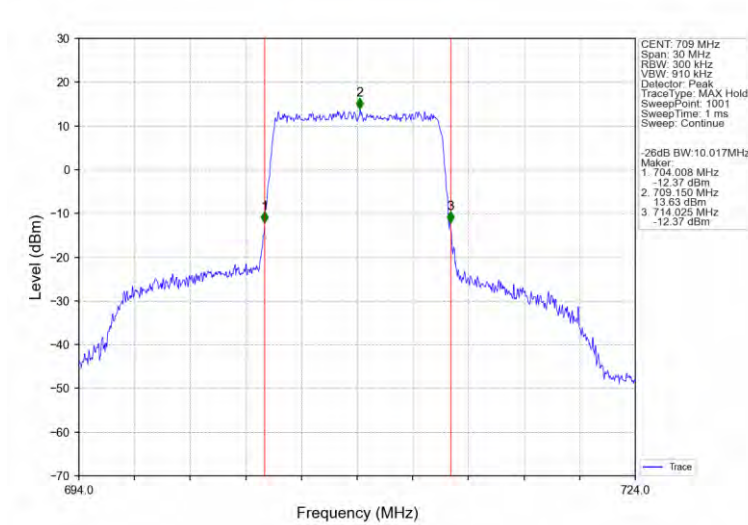
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



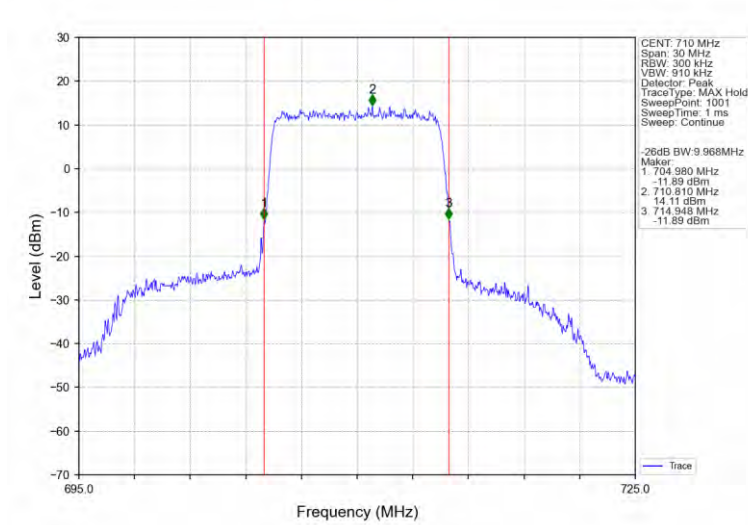
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



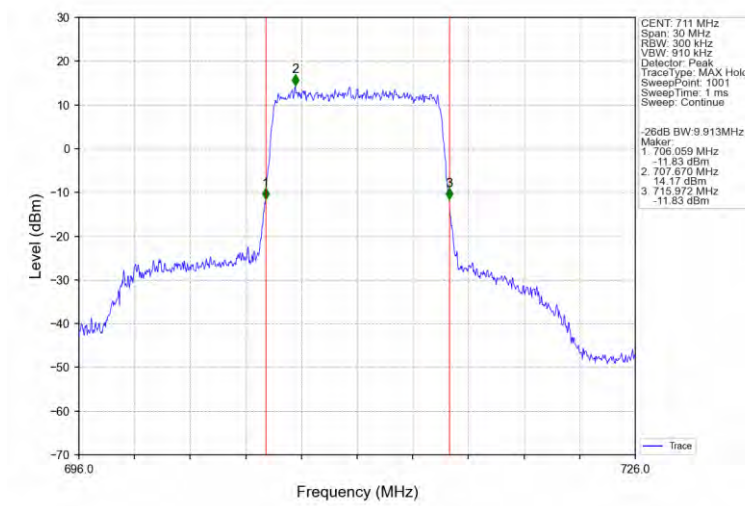
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



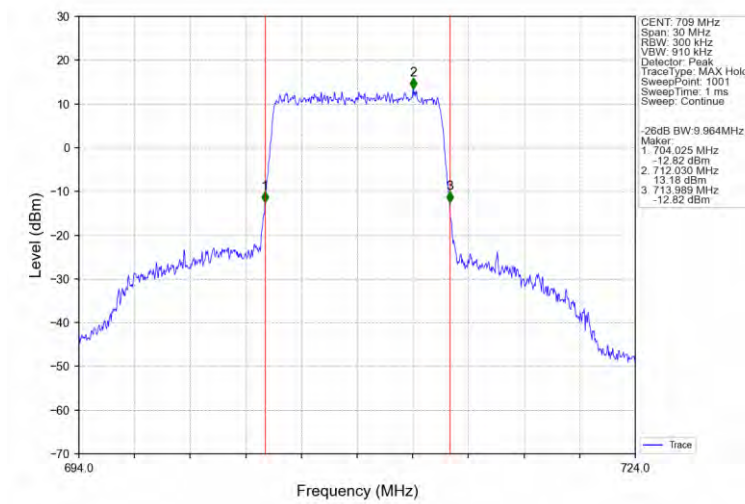
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



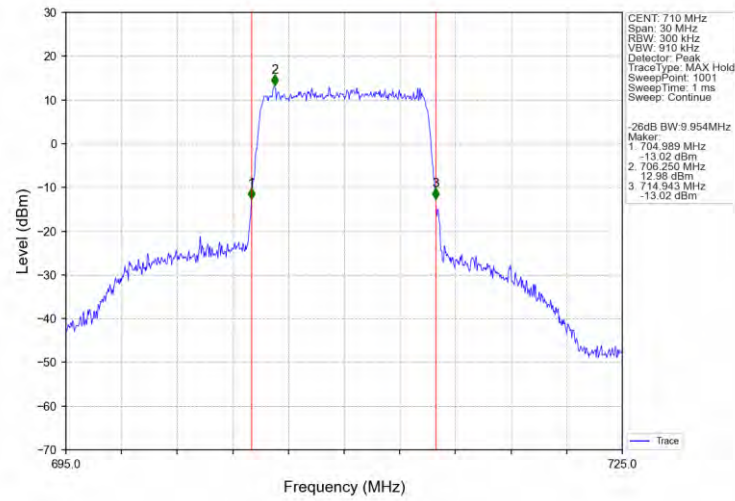
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



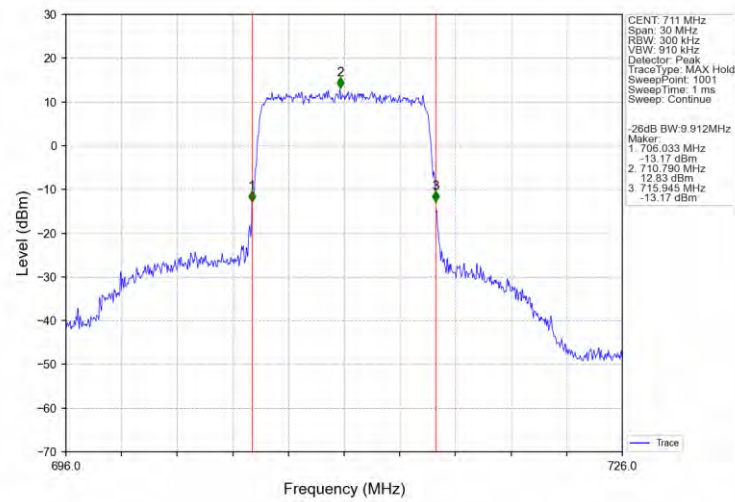
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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

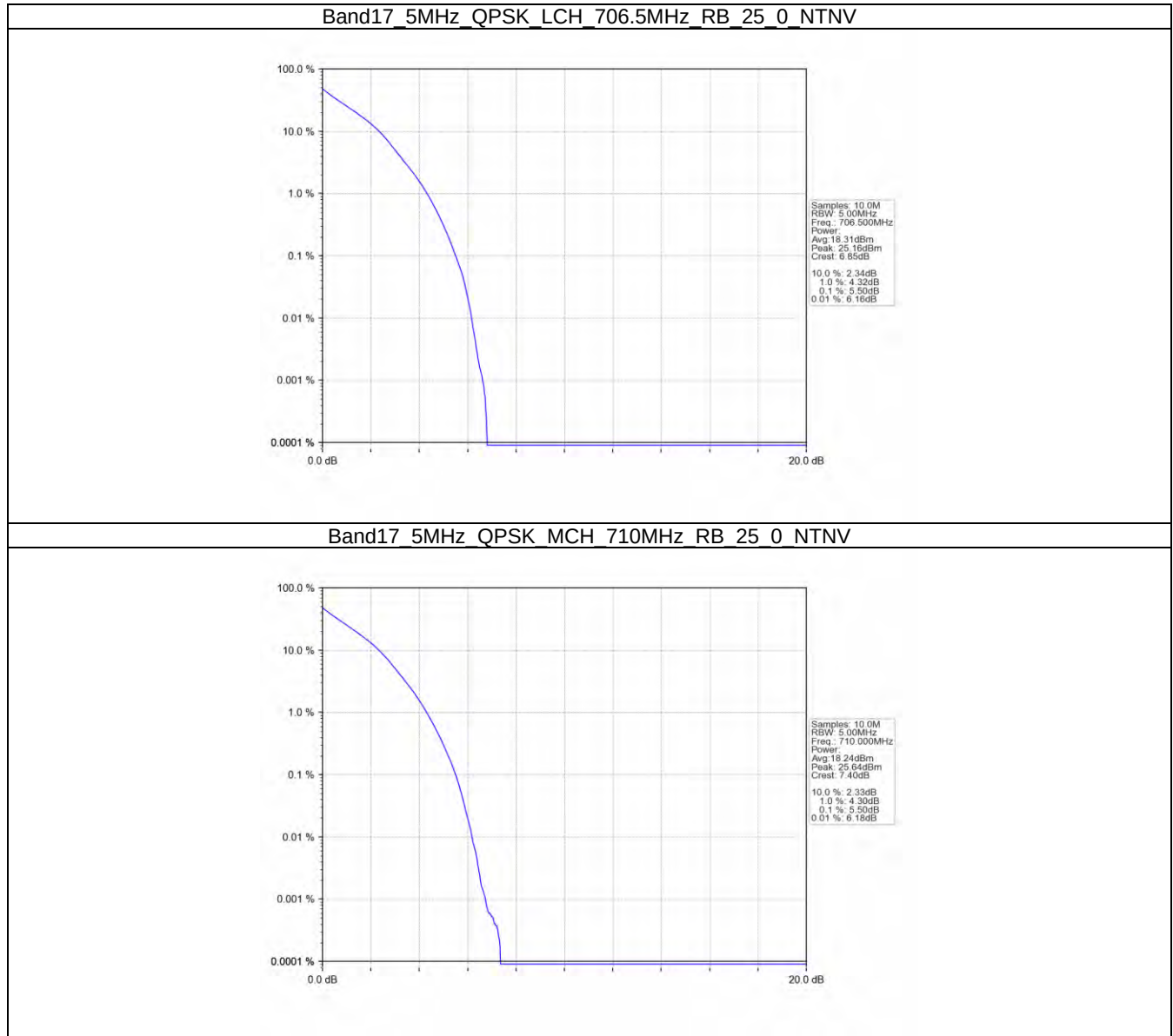
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.50	<=13	Pass
	710	25	0	5.50	<=13	Pass
	713.5	25	0	5.46	<=13	Pass
16QAM	706.5	25	0	6.18	<=13	Pass
	710	25	0	6.14	<=13	Pass
	713.5	25	0	6.11	<=13	Pass

5.1.2 B17_10MHz

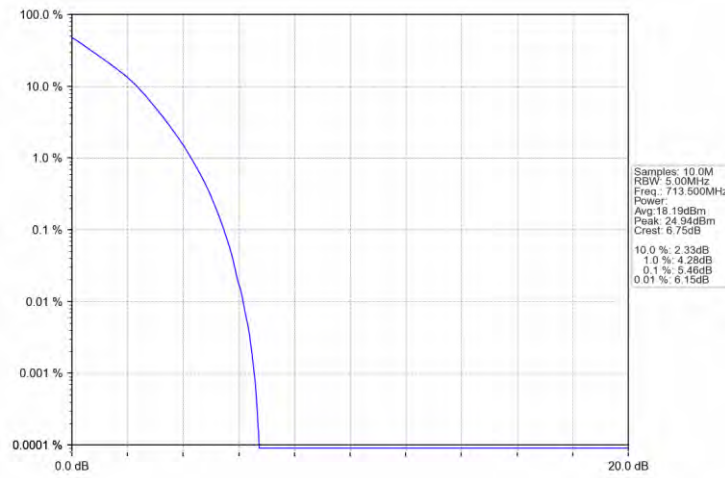
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.35	<=13	Pass
	710	50	0	5.36	<=13	Pass
	711	50	0	5.33	<=13	Pass
16QAM	709	50	0	6.05	<=13	Pass
	710	50	0	6.05	<=13	Pass
	711	50	0	6.12	<=13	Pass

5.2 Test Graph

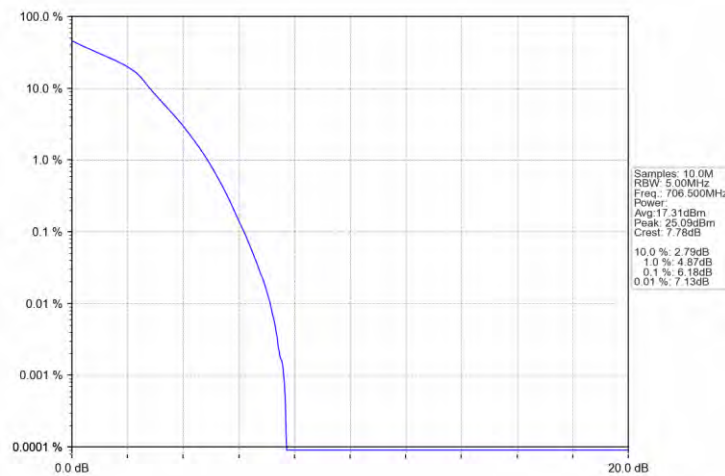
5.2.1 B17_5MHz



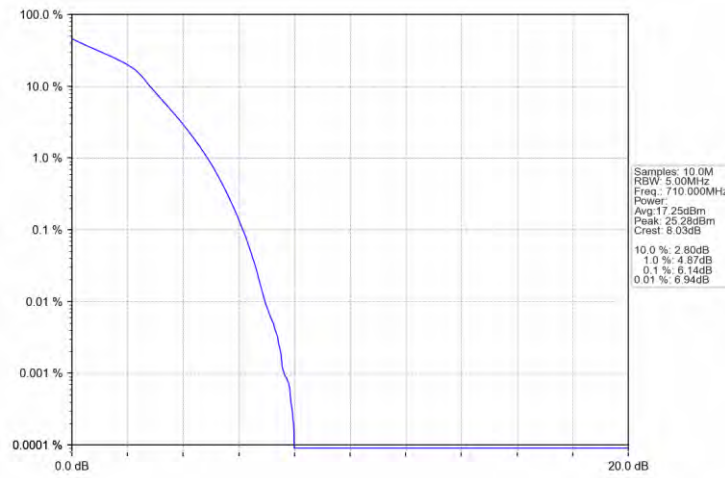
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



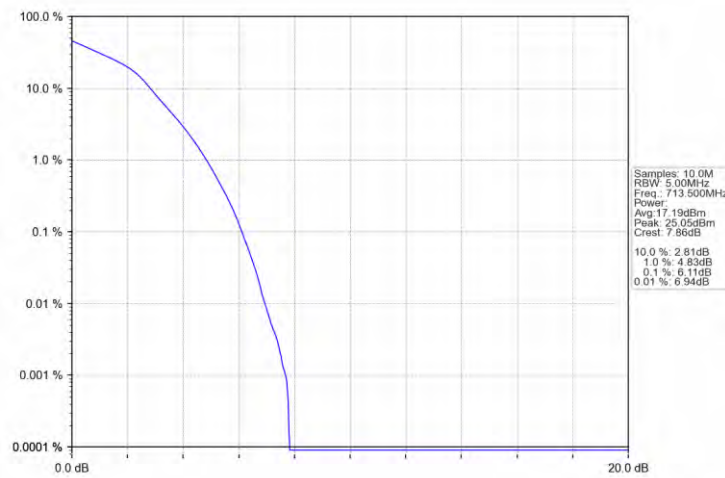
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

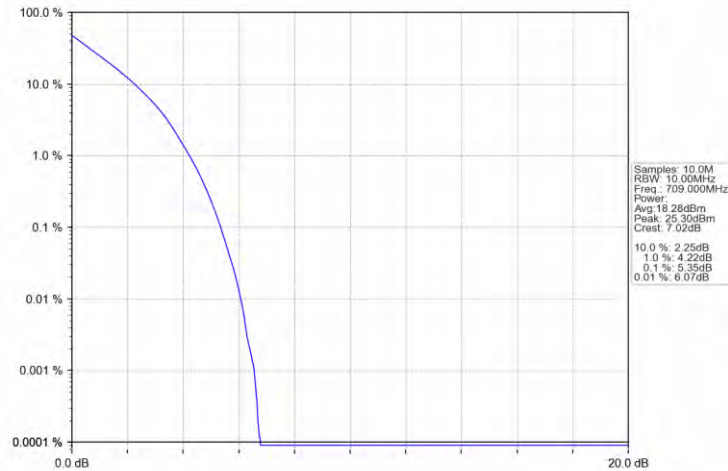


Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

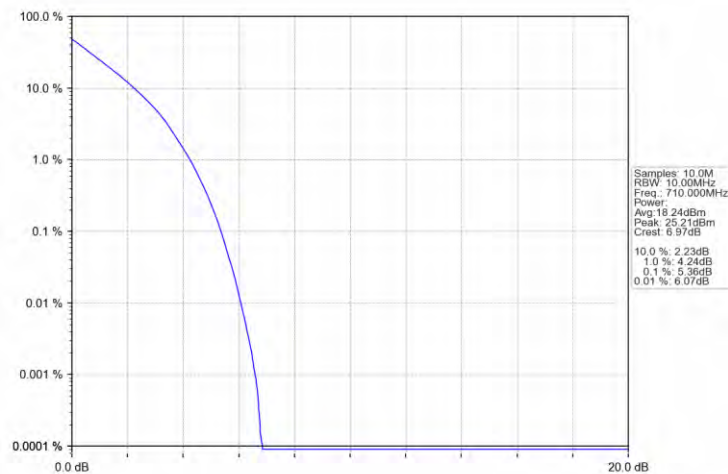


5.2.2 B17_10MHz

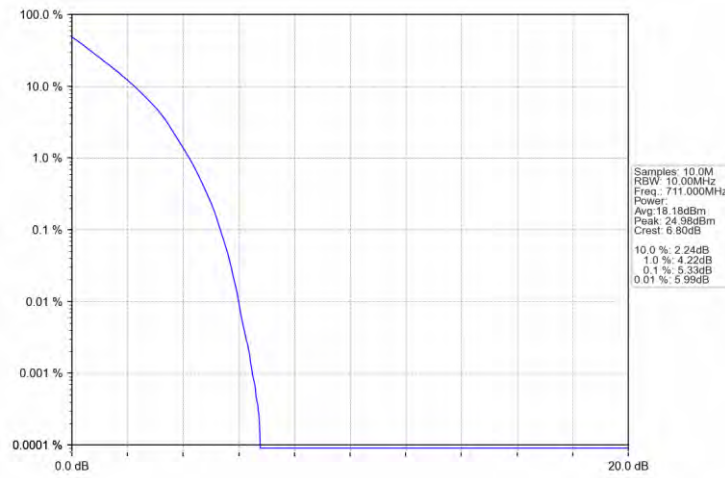
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



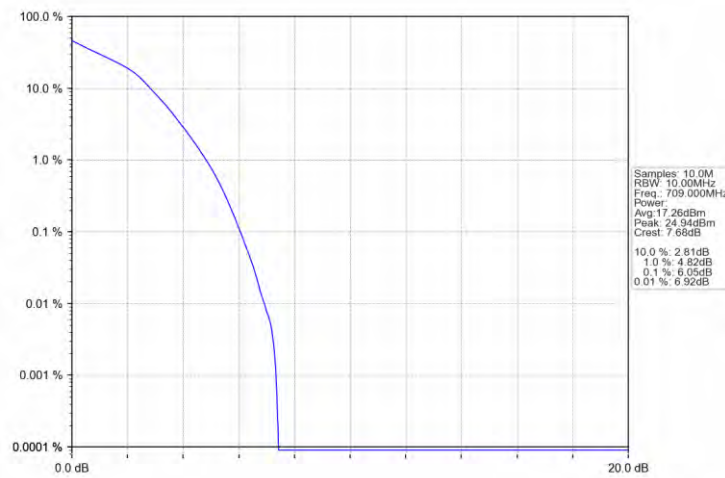
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



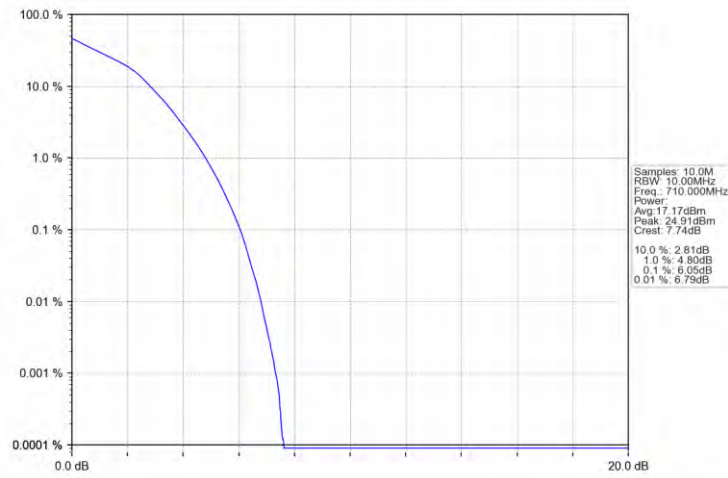
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



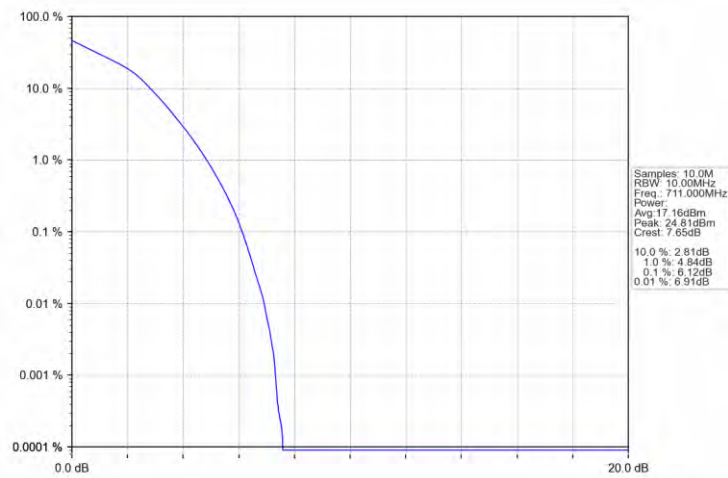
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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 / NTV						
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

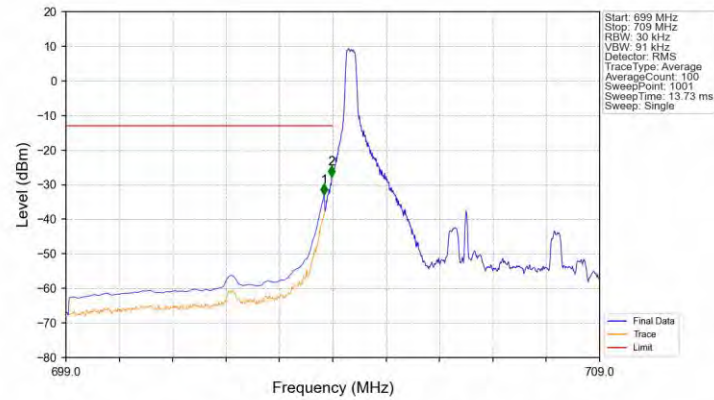
6.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
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

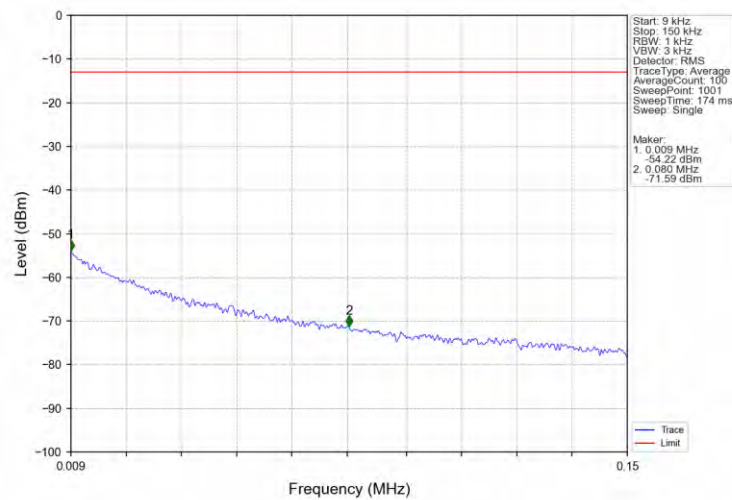
6.2.1 B17_5MHz

Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

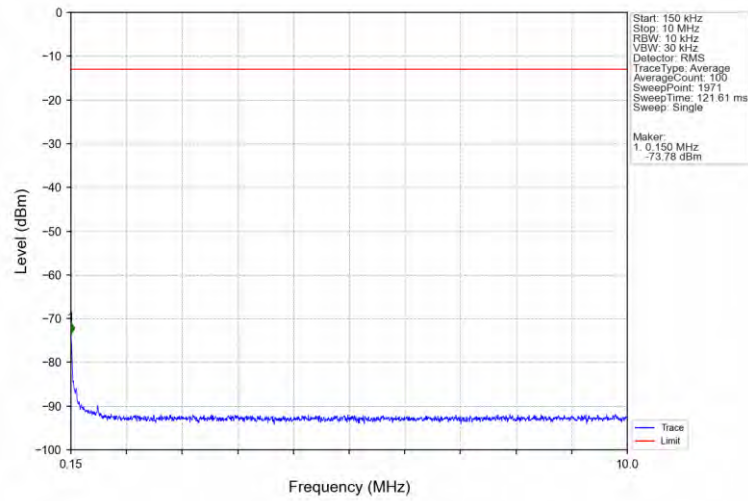


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-32.89	-13	Pass
703.9	704	0.03	/	2	703.980	-27.58	-13	Pass
704	709	0.03	/	/	/	/	/	/

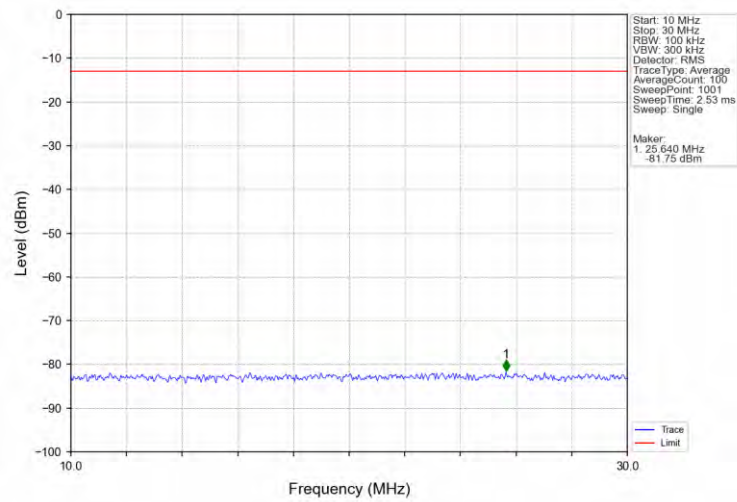
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



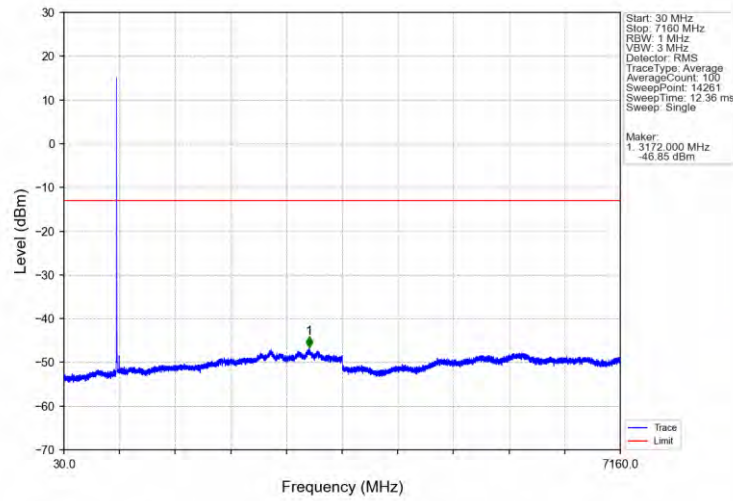
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



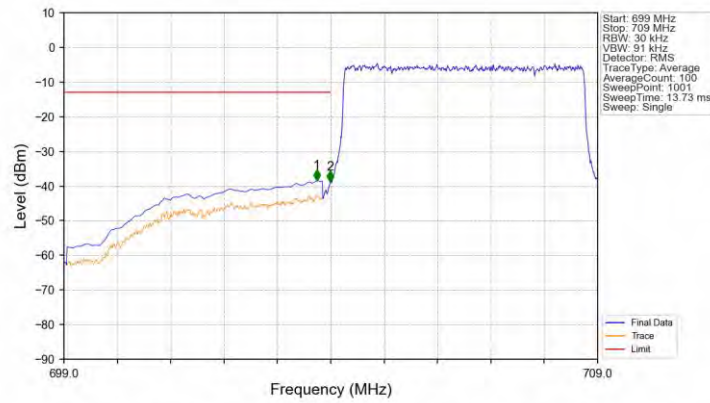
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

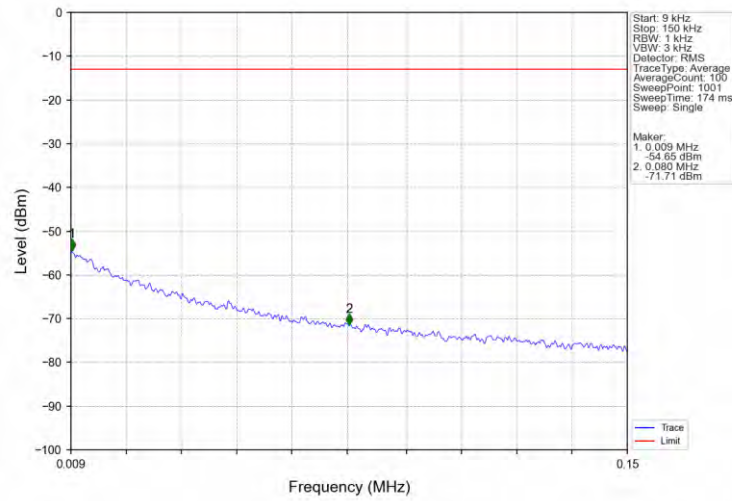


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

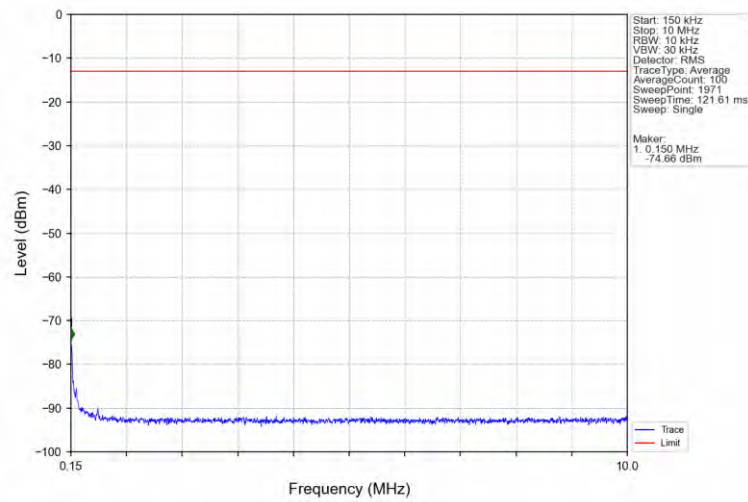


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.740	-38.45	-13	Pass
703.9	704	0.03	/	2	703.990	-38.77	-13	Pass
704	709	0.03	/	/	/	/	/	/

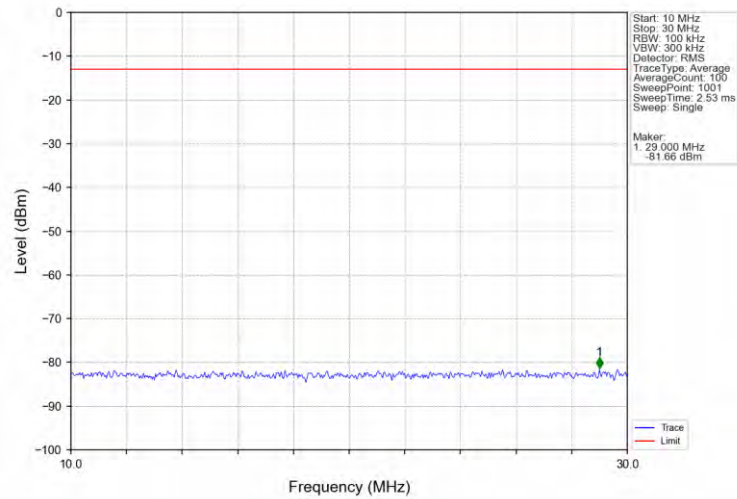
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



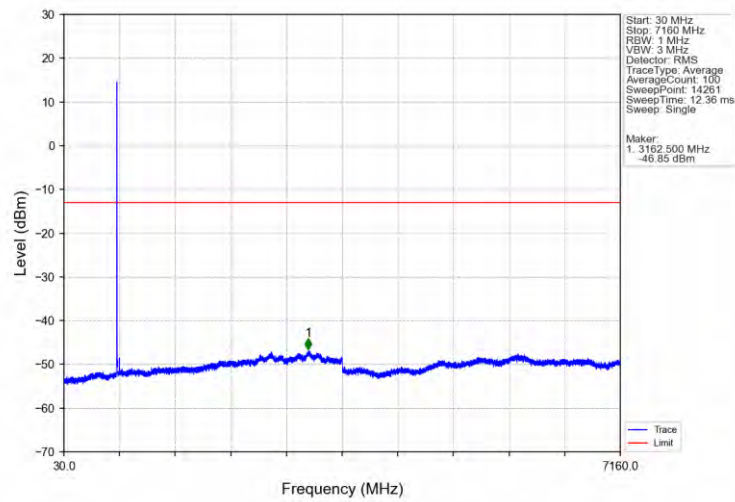
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



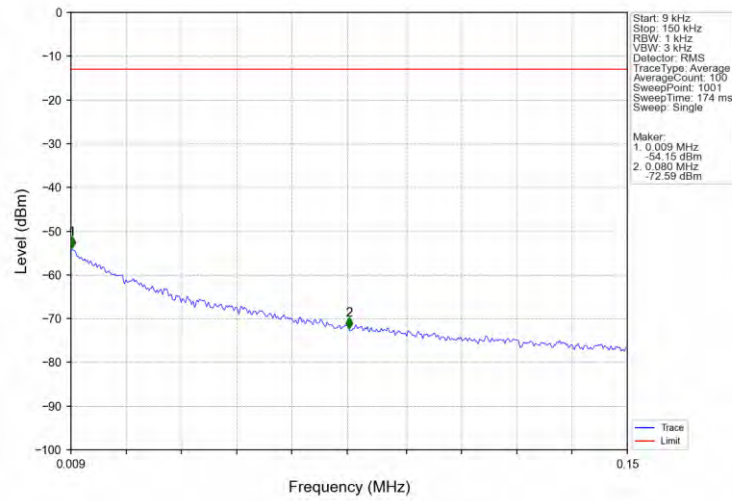
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



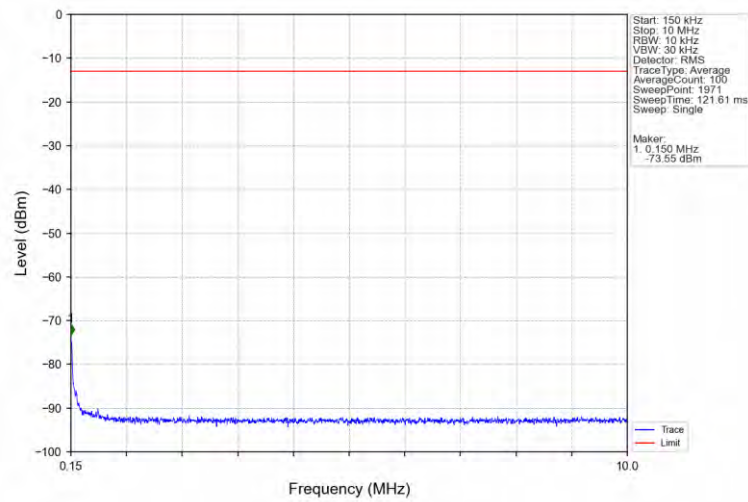
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



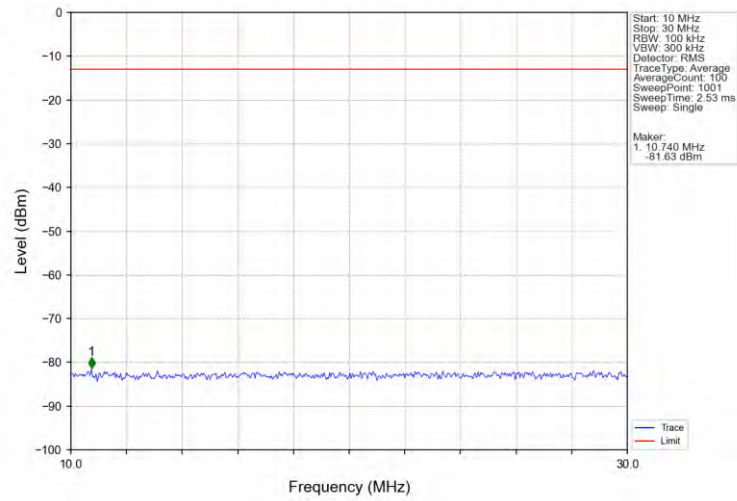
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



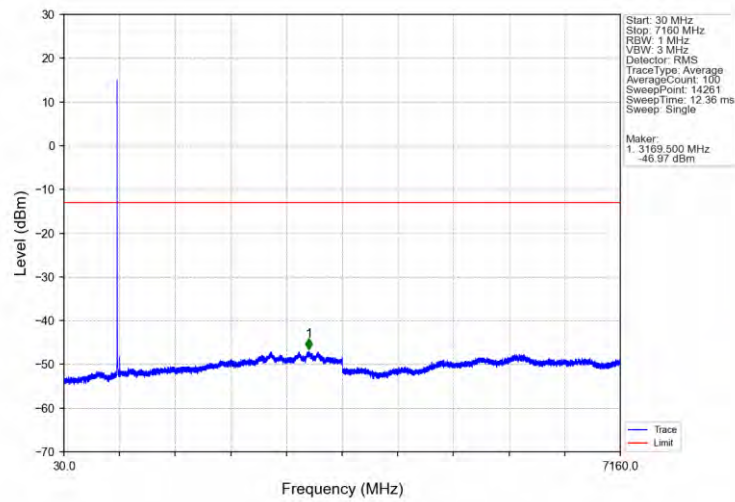
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



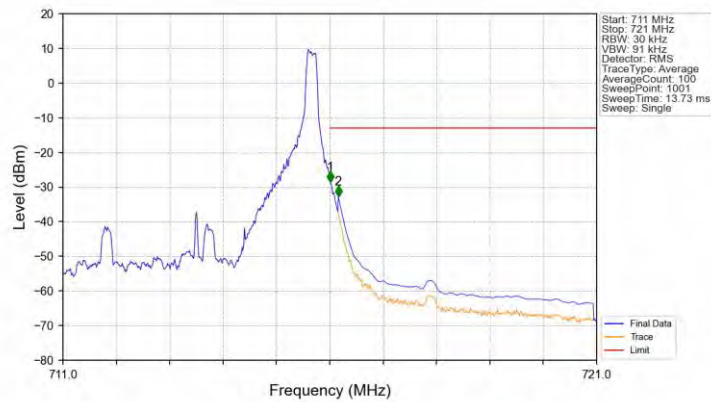
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

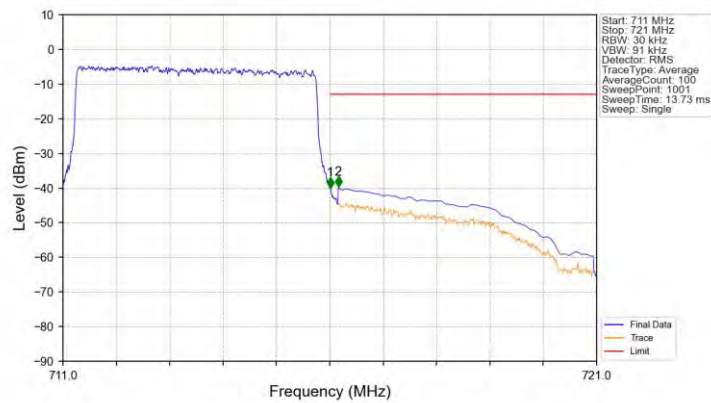


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



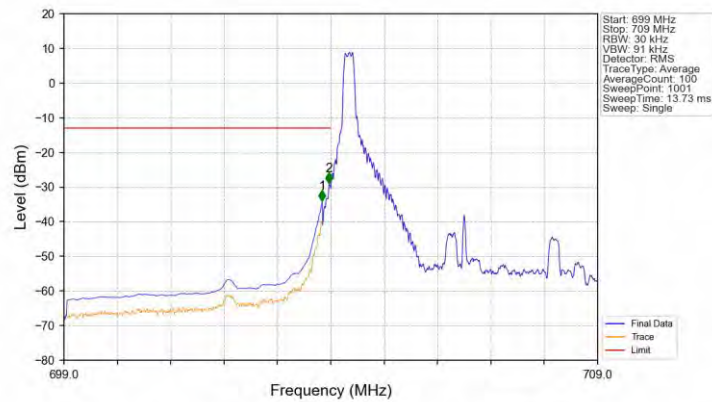
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-28.50	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.84	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



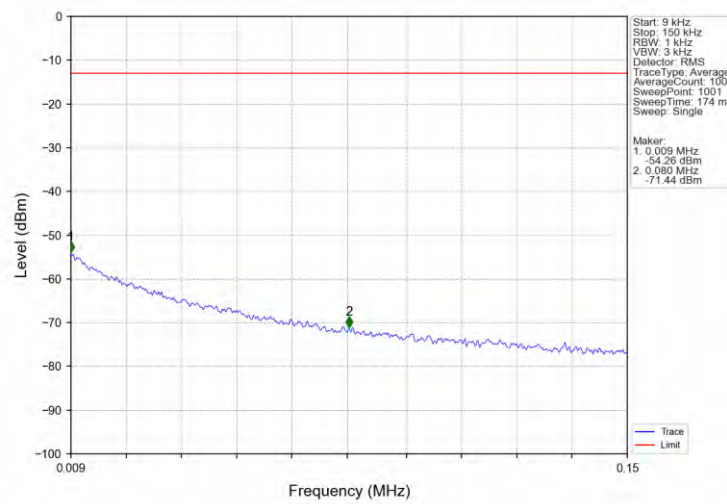
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-39.94	-13	Pass
716.1	721	0.1	CHP	2	716.160	-39.74	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

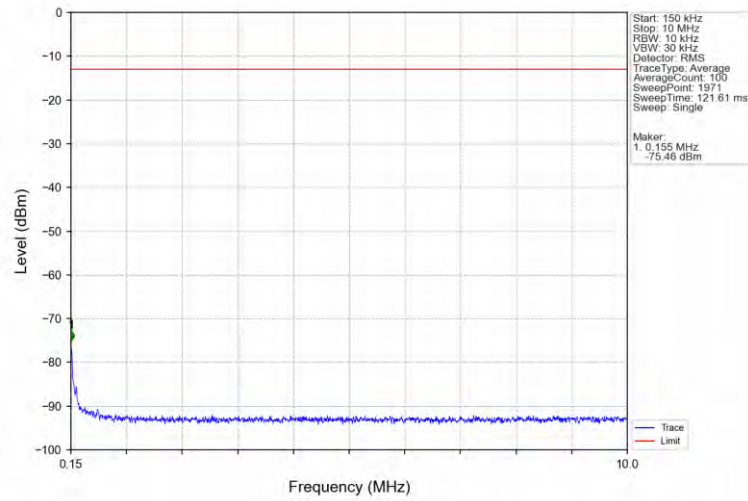


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-34.05	-13	Pass
703.9	704	0.03	/	2	703.970	-28.99	-13	Pass
704	709	0.03	/	/	/	/	/	/

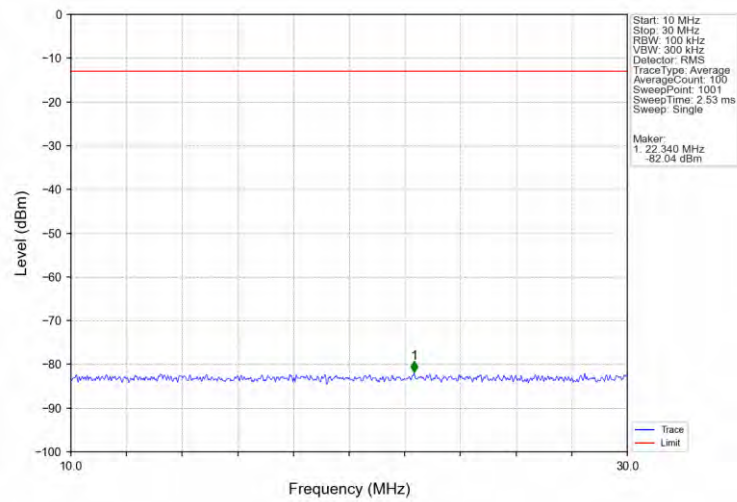
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



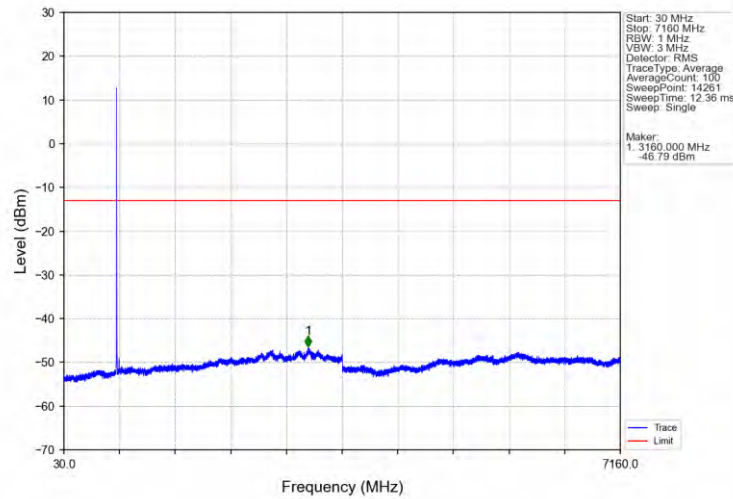
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



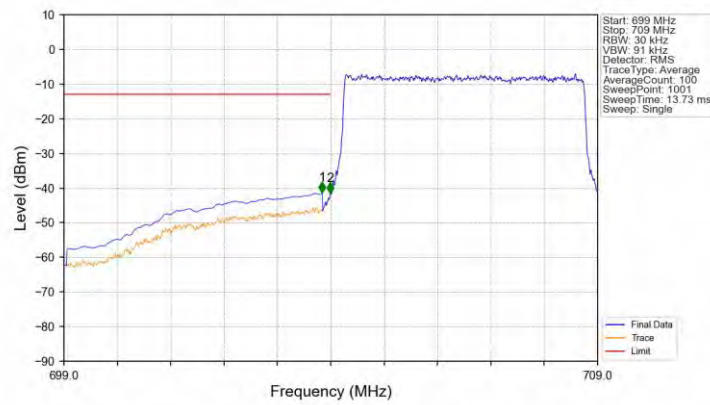
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

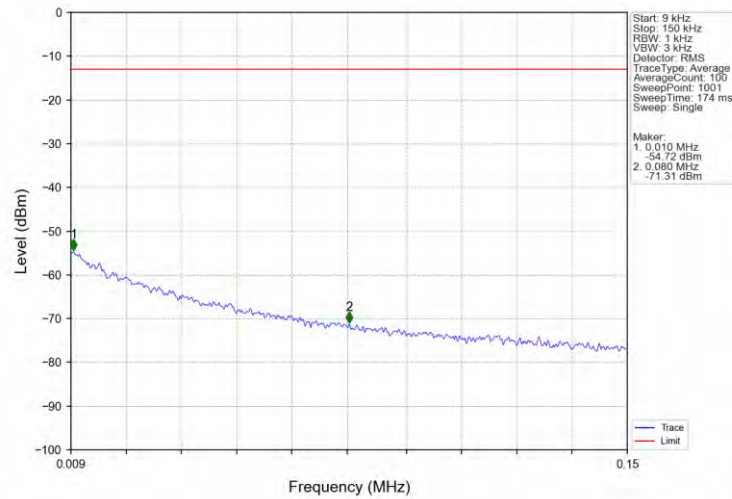


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

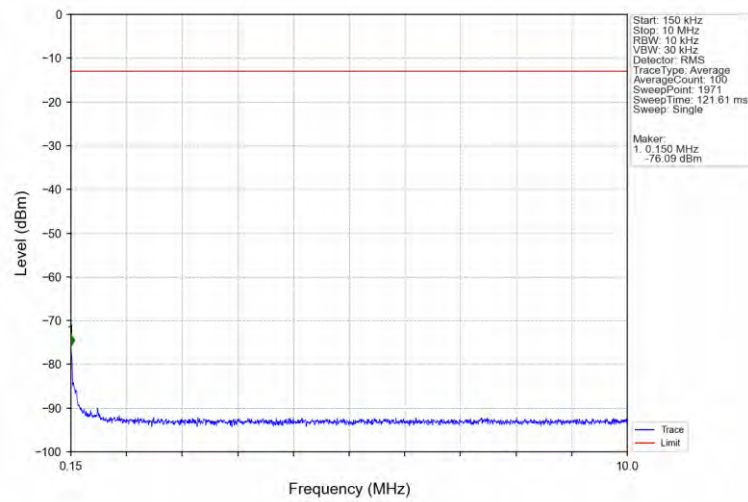


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-41.33	-13	Pass
703.9	704	0.03	/	2	703.990	-41.56	-13	Pass
704	709	0.03	/	/	/	/	/	/

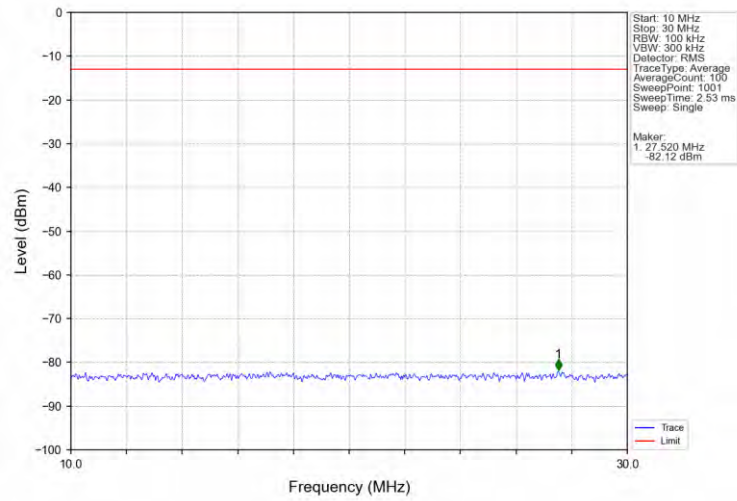
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



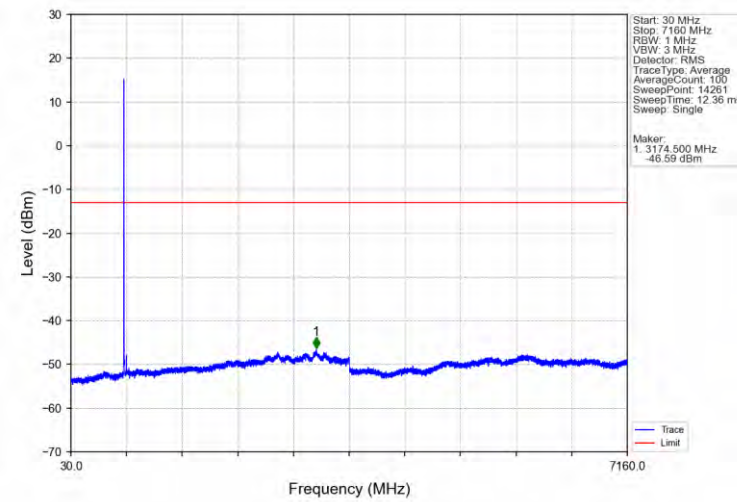
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



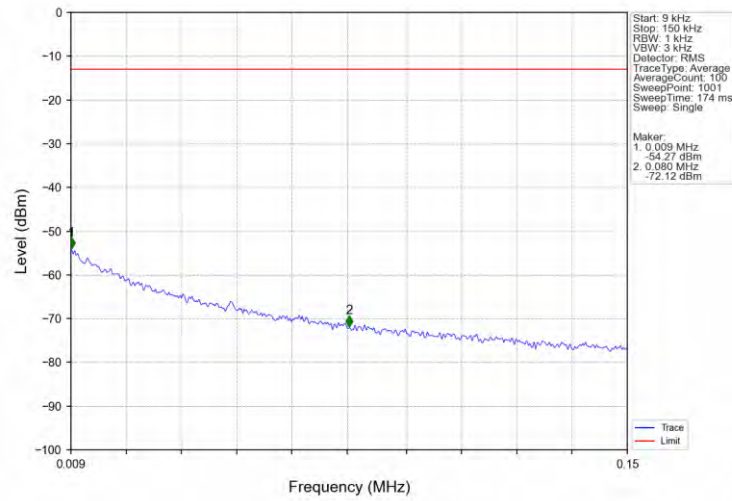
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



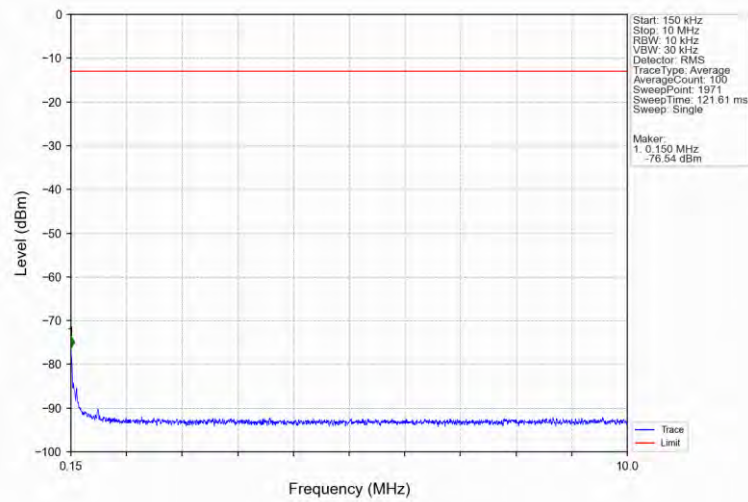
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



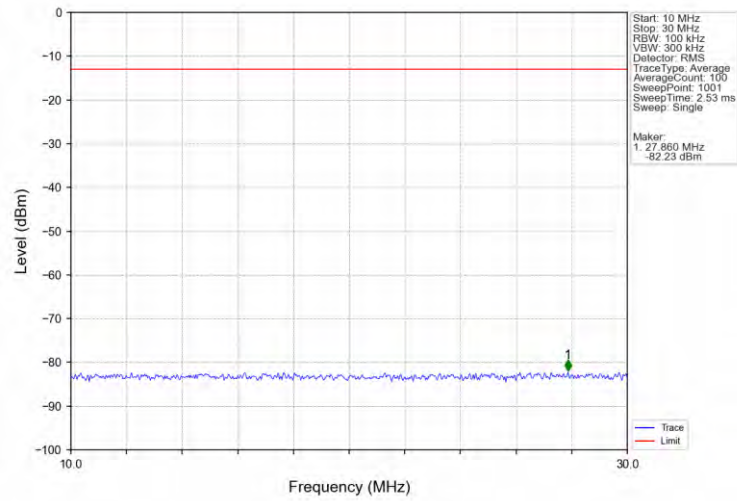
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



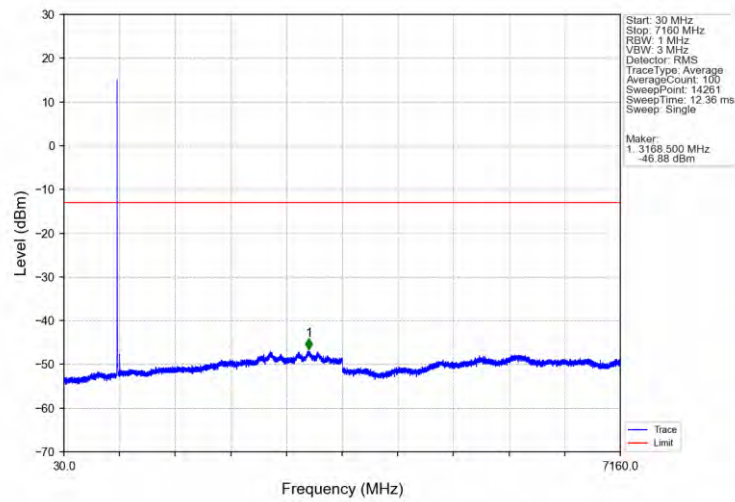
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



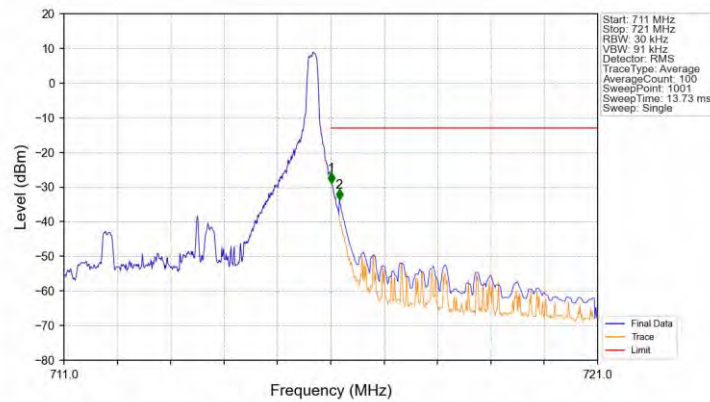
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

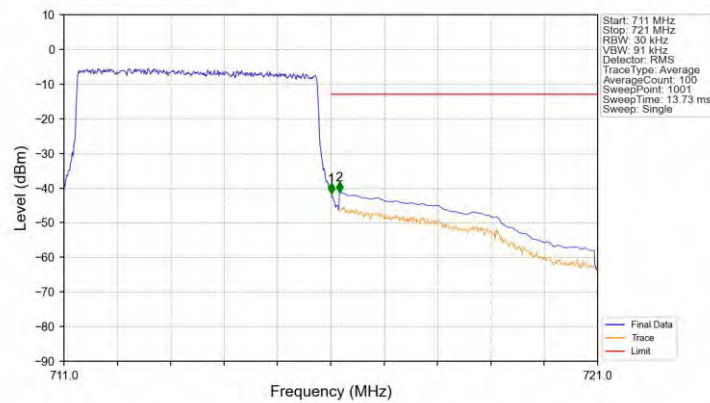


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



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	716.010	-28.95	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.69	-13	Pass

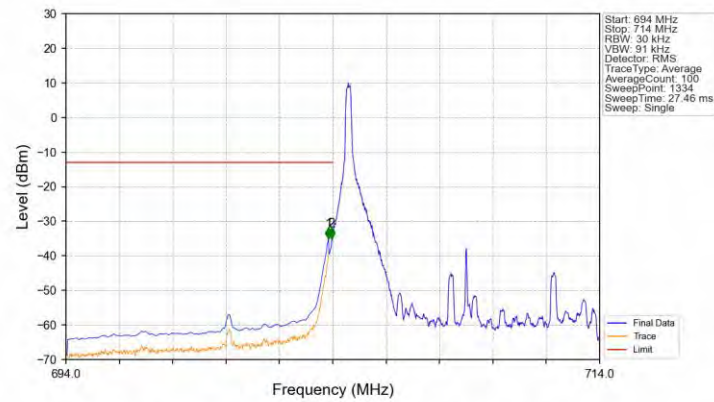
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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	-41.60	-13	Pass
716.1	721	0.1	CHP	2	716.160	-41.26	-13	Pass

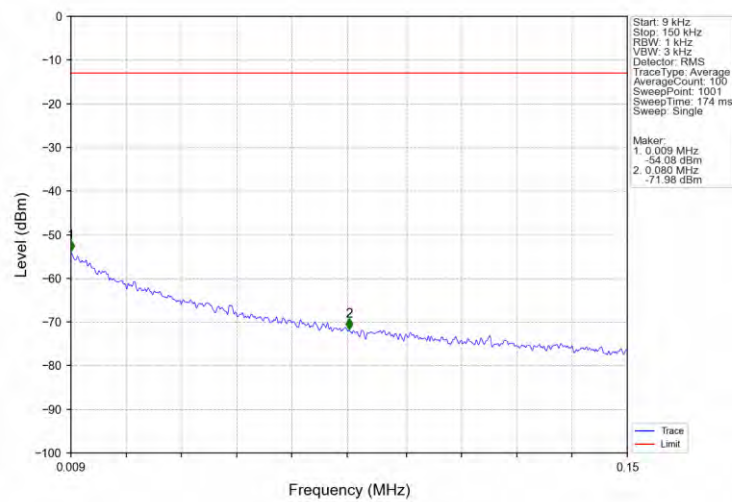
6.2.2 B17_10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

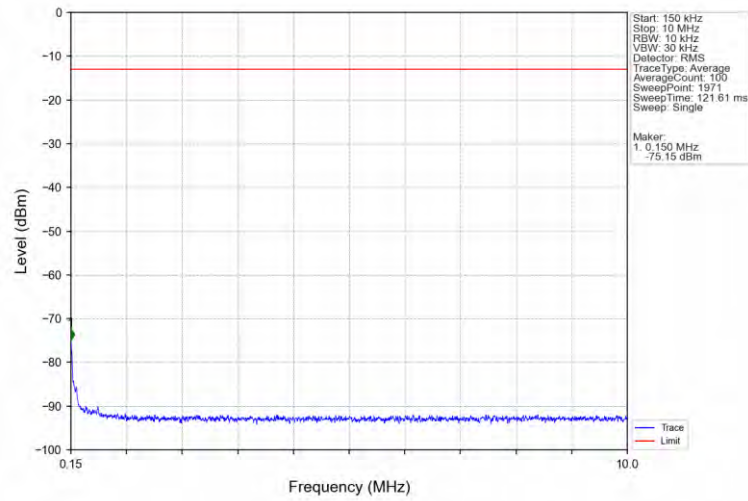


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-34.93	-13	Pass
703.9	704	0.03	/	2	703.962	-34.95	-13	Pass
704	714	0.03	/	/	/	/	/	/

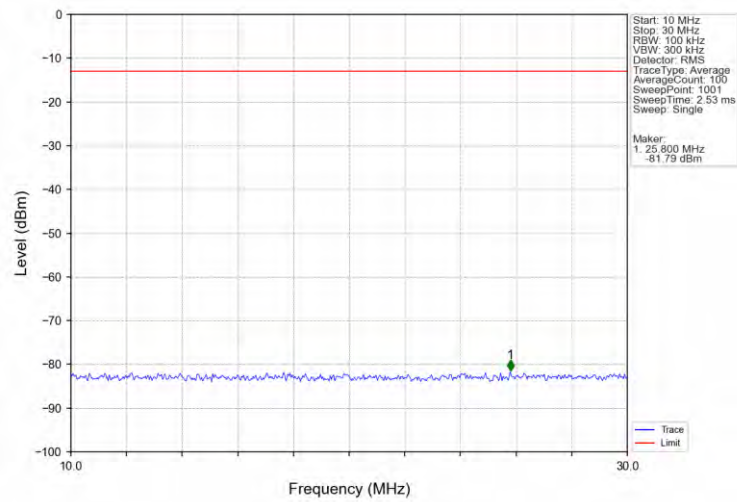
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



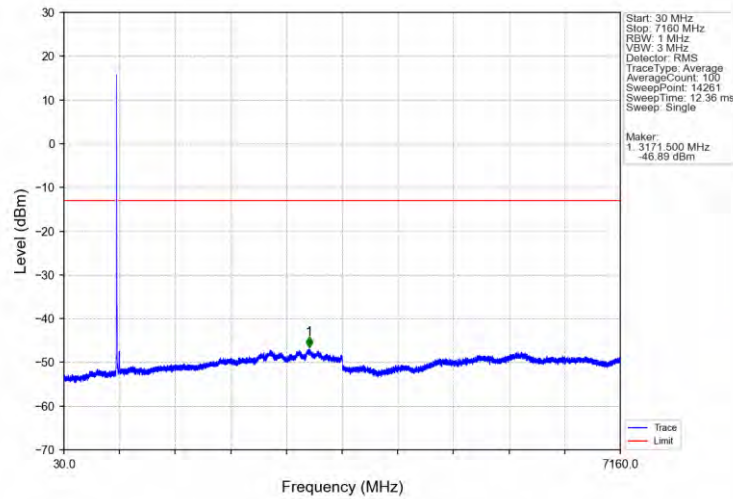
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



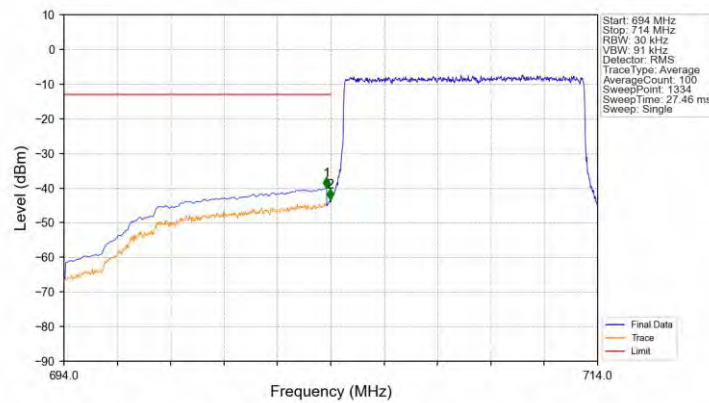
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

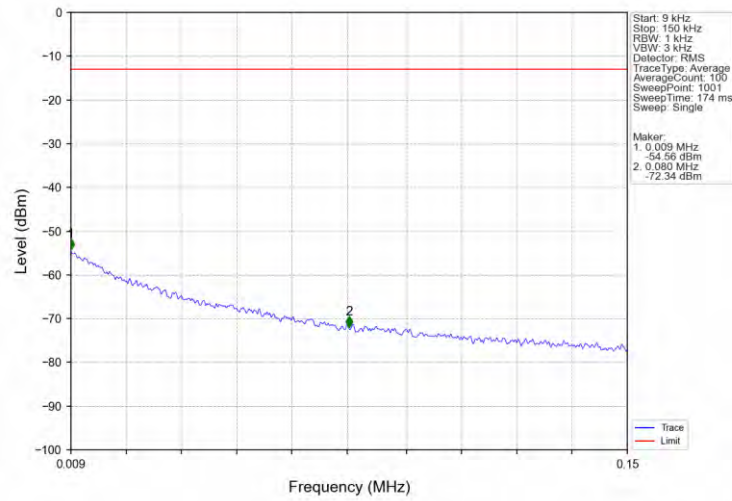


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

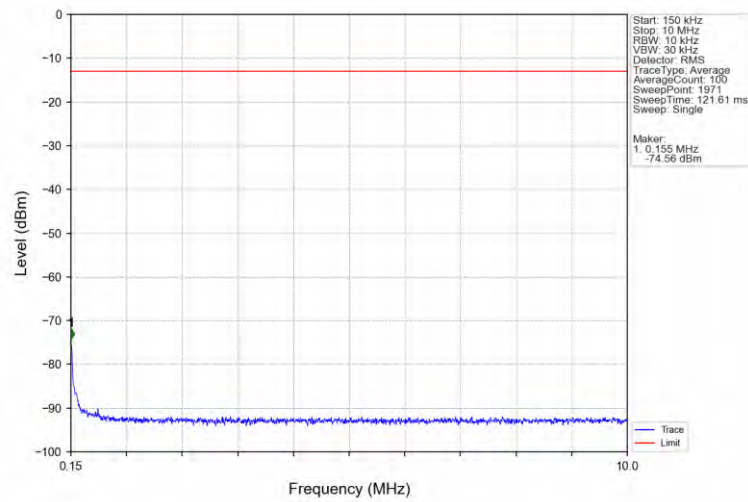


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-40.00	-13	Pass
703.9	704	0.03	/	2	703.977	-43.35	-13	Pass
704	714	0.03	/	/	/	/	/	/

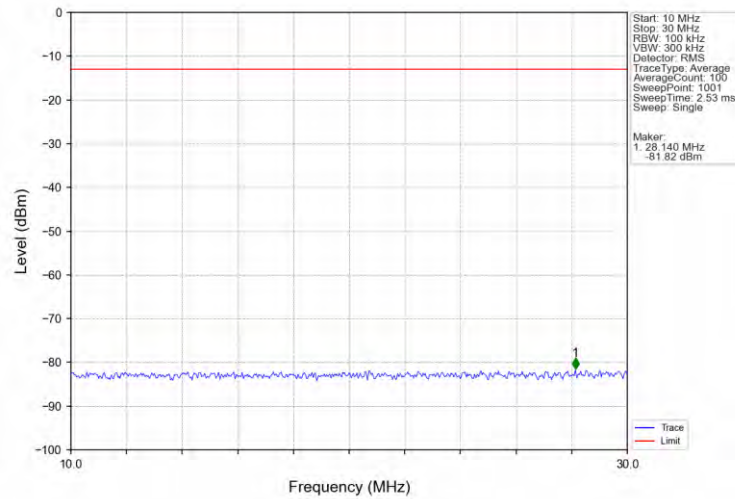
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



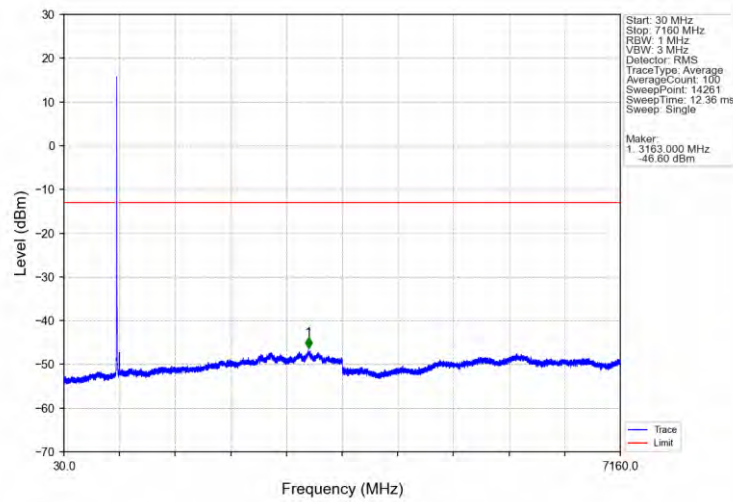
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



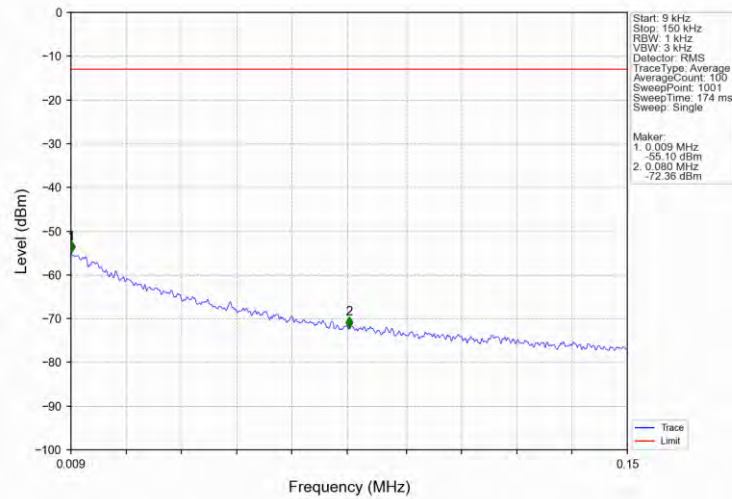
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



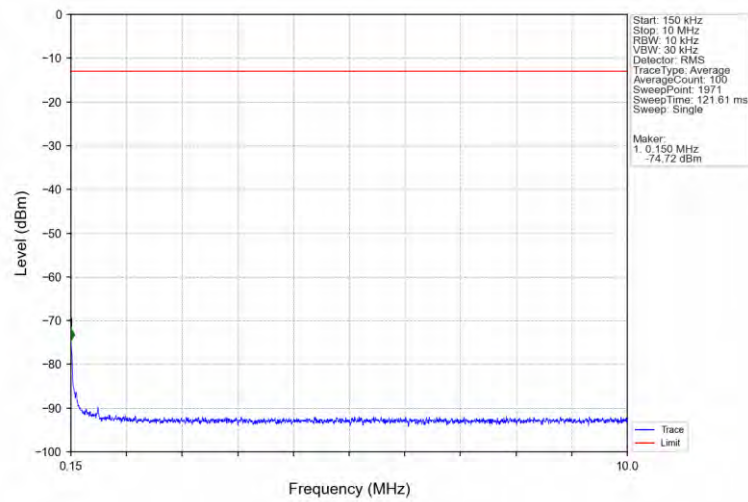
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



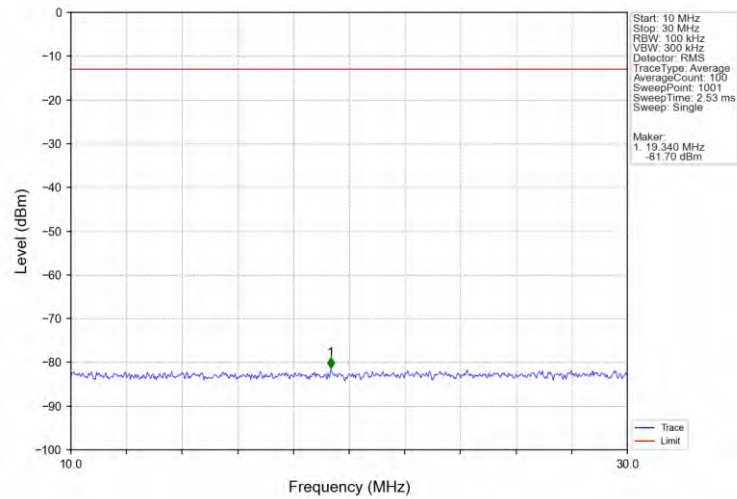
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



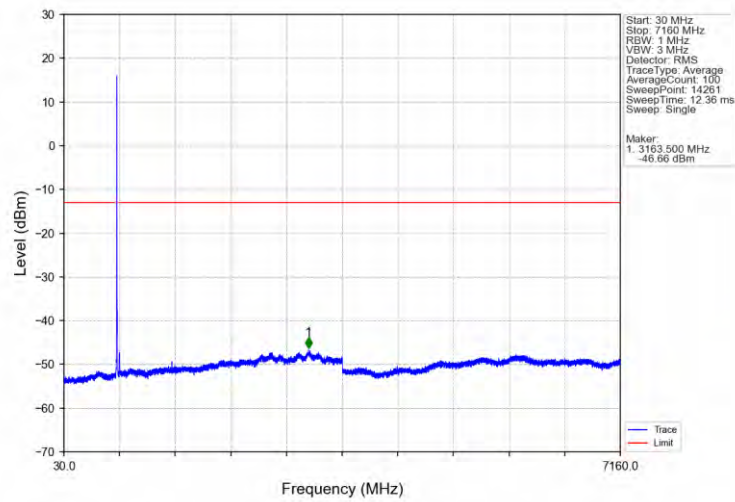
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



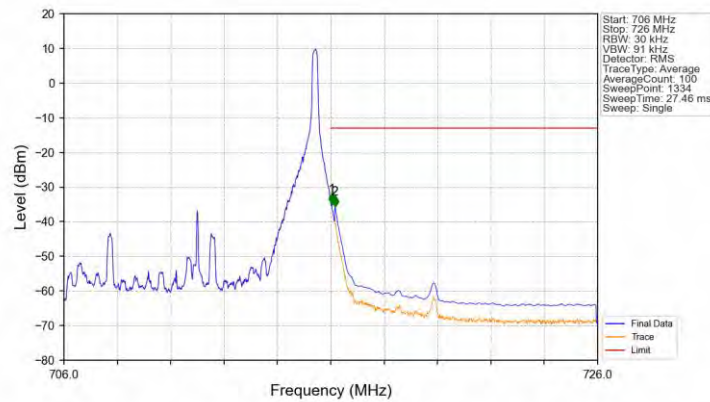
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

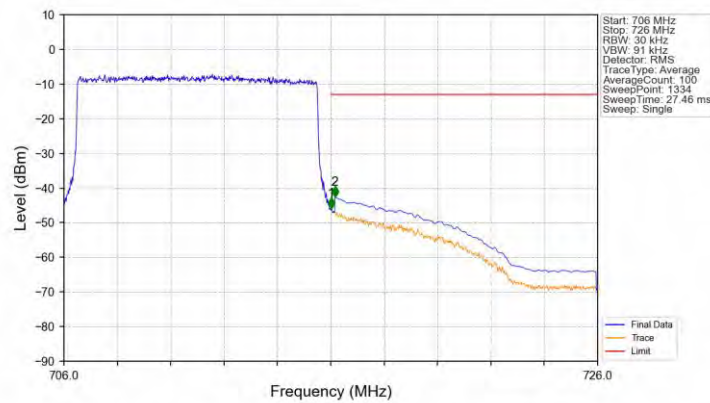


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



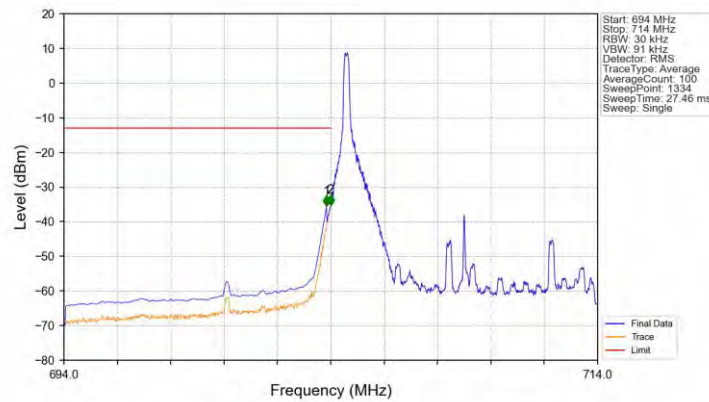
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-34.97	-13	Pass
716.1	726	0.1	CHP	2	716.158	-35.68	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



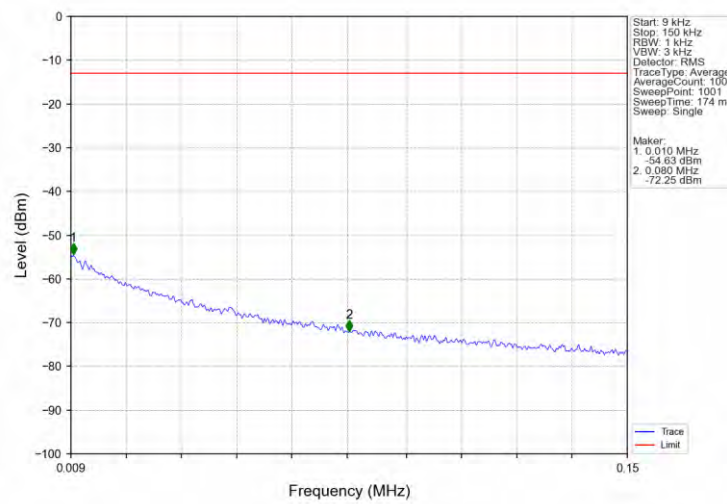
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-45.86	-13	Pass
716.1	726	0.1	CHP	2	716.158	-42.51	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

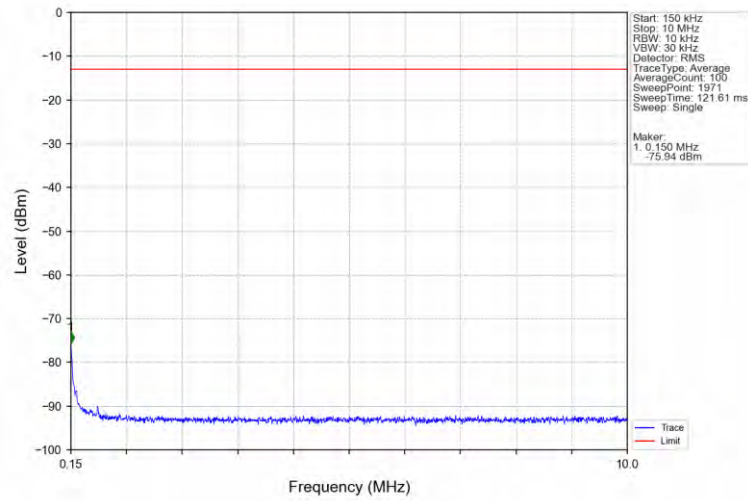


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-35.54	-13	Pass
703.9	704	0.03	/	2	703.992	-35.23	-13	Pass
704	714	0.03	/	/	/	/	/	/

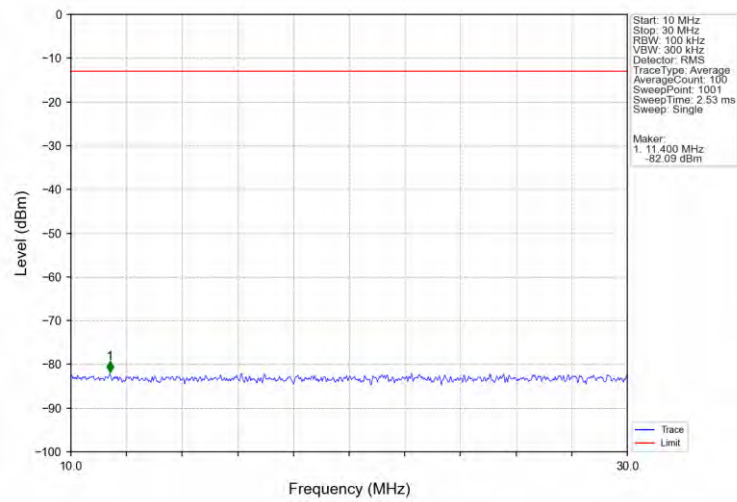
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



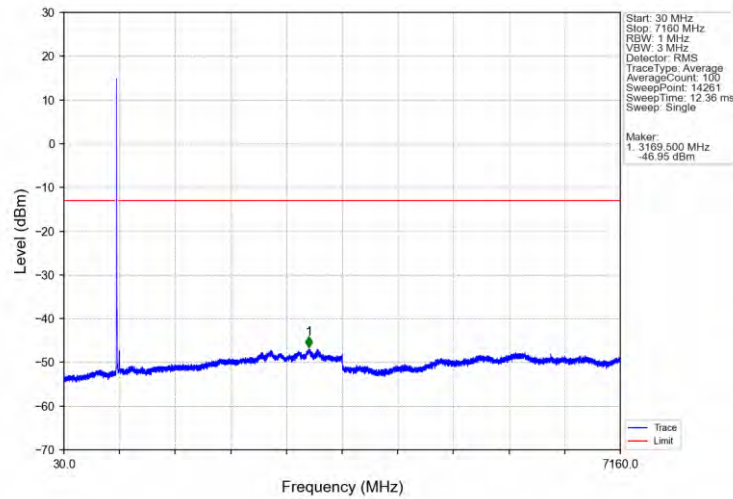
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



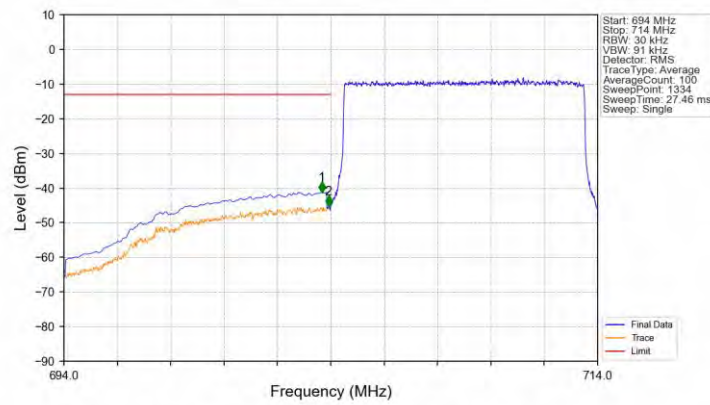
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

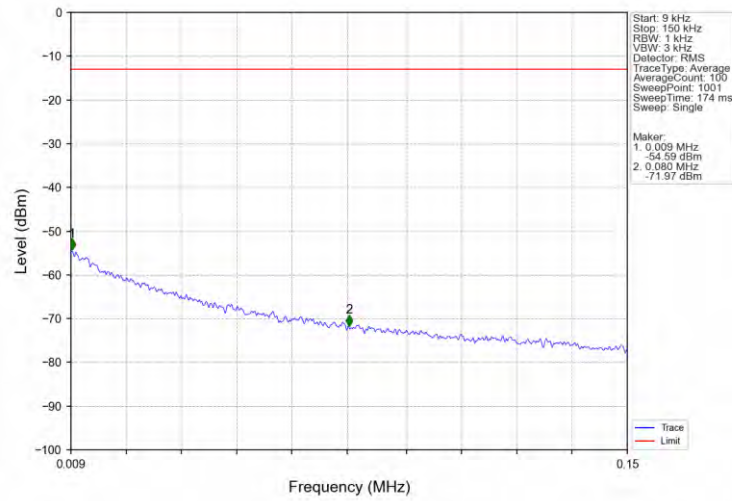


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

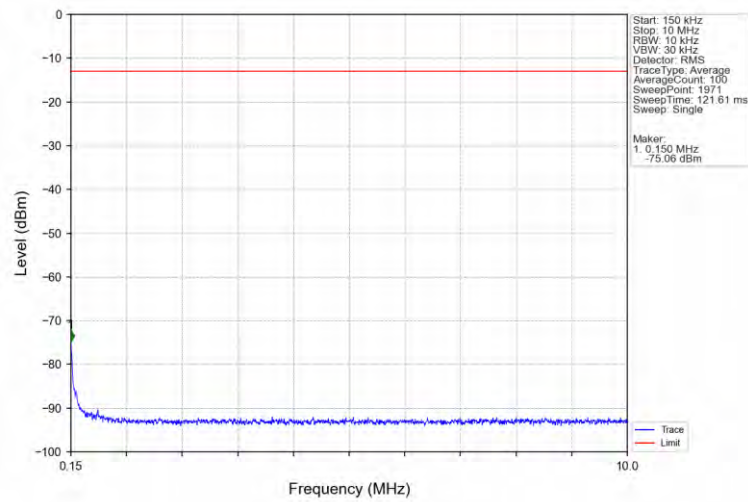


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.662	-41.23	-13	Pass
703.9	704	0.03	/	2	703.917	-45.25	-13	Pass
704	714	0.03	/	/	/	/	/	/

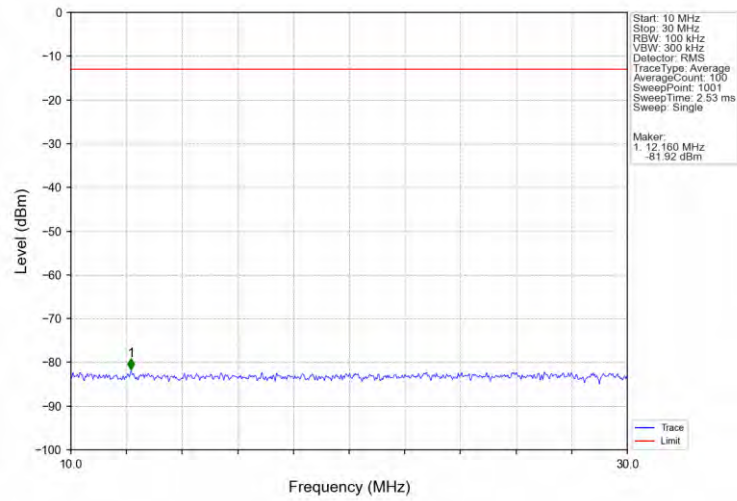
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



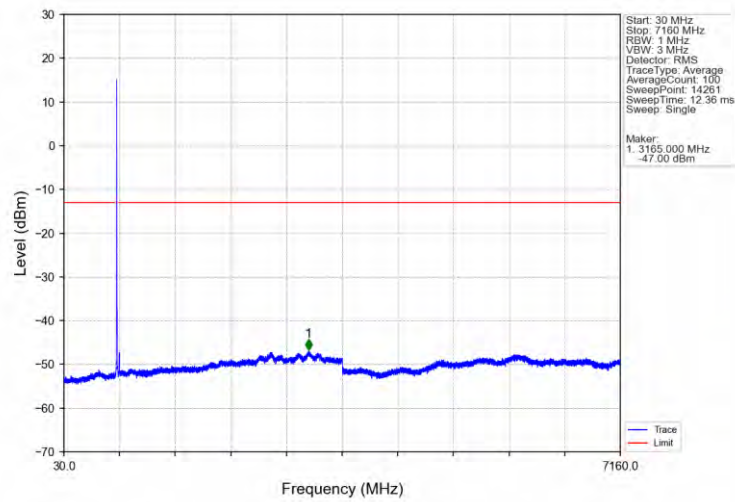
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



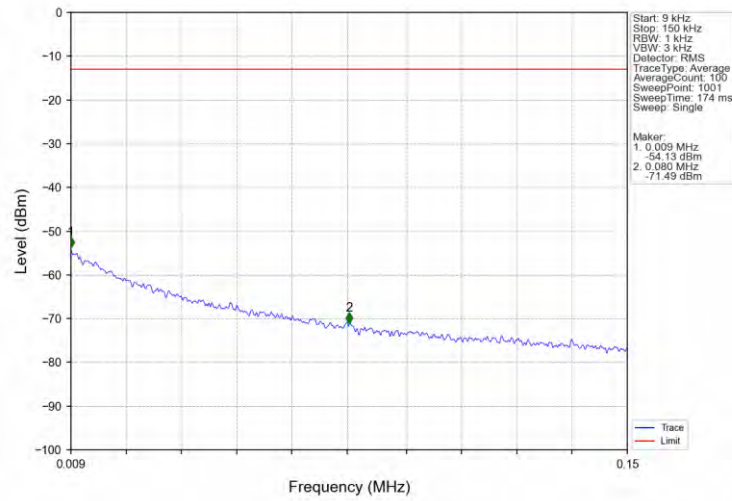
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



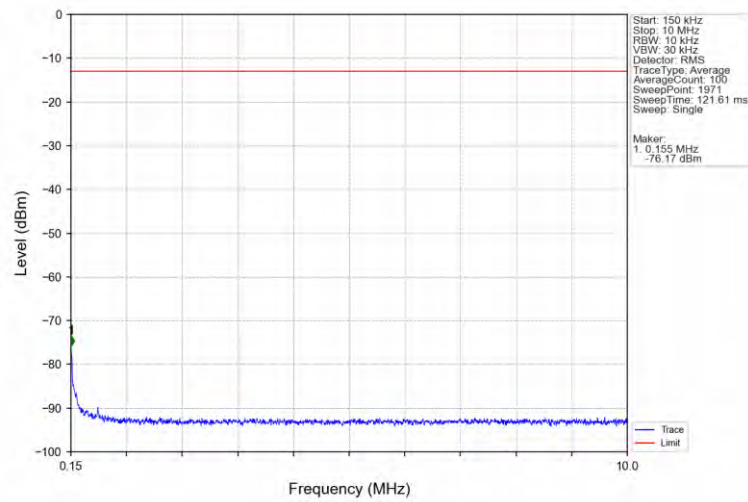
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



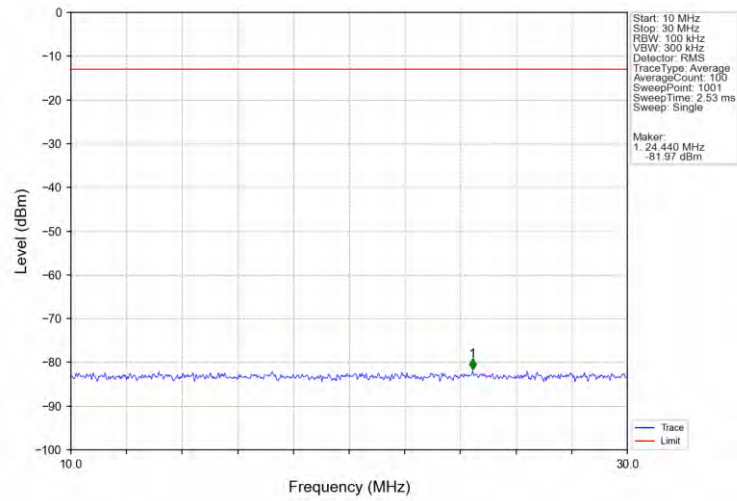
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



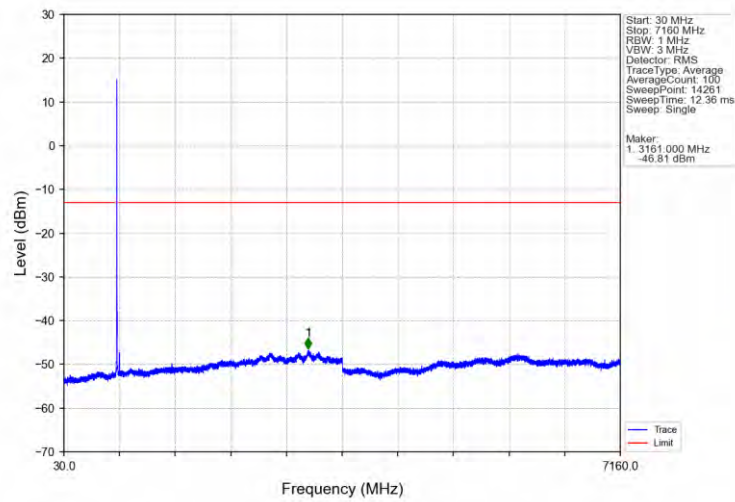
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



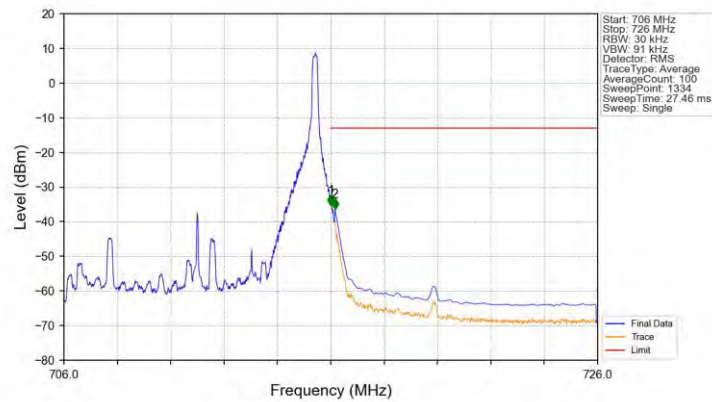
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

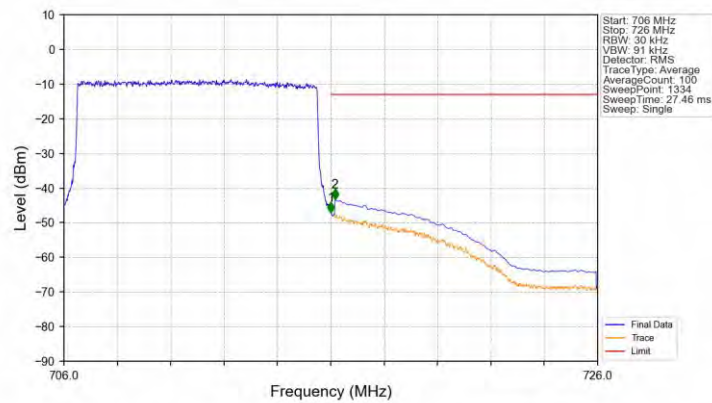


Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



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	716.008	-35.26	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.46	-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	-47.12	-13	Pass
716.1	726	0.1	CHP	2	716.158	-43.25	-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	0.2350	0.0059	ppm	4M54G7D	27H	23.71
17	5	706.5	713.5	0.1897	0.0069	ppm	4M55W7D	27H	22.78
17	10	709	711	0.2317	0.0063	ppm	9M07G7D	27H	23.65
17	10	709	711	0.2042	0.0042	ppm	9M05W7D	27H	23.10

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	0.0024	0.0059	ppm	4M54G7D	27H	3.75
17	5	706.5	713.5	0.0019	0.0069	ppm	4M55W7D	27H	2.82
17	10	709	711	0.0023	0.0063	ppm	9M07G7D	27H	3.69
17	10	709	711	0.0021	0.0042	ppm	9M05W7D	27H	3.14