

Appendix Test Data for 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	23.77	0.30	21.92	<=34.77	Pass
			13	23.78	0.30	21.93	<=34.77	Pass
			24	23.91	0.30	22.06	<=34.77	Pass
		12	0	22.70	0.30	20.85	<=34.77	Pass
			6	22.75	0.30	20.90	<=34.77	Pass
			13	22.75	0.30	20.90	<=34.77	Pass
		25	0	22.77	0.30	20.92	<=34.77	Pass
	710	1	0	23.80	0.30	21.95	<=34.77	Pass
			13	23.79	0.30	21.94	<=34.77	Pass
			24	23.94	0.30	22.09	<=34.77	Pass
		12	0	22.87	0.30	21.02	<=34.77	Pass
			6	22.82	0.30	20.97	<=34.77	Pass
			13	22.74	0.30	20.89	<=34.77	Pass
		25	0	22.79	0.30	20.94	<=34.77	Pass
	713.5	1	0	23.92	0.30	22.07	<=34.77	Pass
			13	23.62	0.30	21.77	<=34.77	Pass
			24	23.61	0.30	21.76	<=34.77	Pass
		12	0	22.92	0.30	21.07	<=34.77	Pass
			6	22.85	0.30	21.00	<=34.77	Pass
			13	22.88	0.30	21.03	<=34.77	Pass
		25	0	22.93	0.30	21.08	<=34.77	Pass
16QAM	706.5	1	0	23.01	0.30	21.16	<=34.77	Pass
			13	23.01	0.30	21.16	<=34.77	Pass
			24	23.16	0.30	21.31	<=34.77	Pass
		12	0	21.69	0.30	19.84	<=34.77	Pass
			6	21.67	0.30	19.82	<=34.77	Pass
			13	21.71	0.30	19.86	<=34.77	Pass
		25	0	21.76	0.30	19.91	<=34.77	Pass
	710	1	0	23.00	0.30	21.15	<=34.77	Pass
			13	22.87	0.30	21.02	<=34.77	Pass
			24	23.01	0.30	21.16	<=34.77	Pass
		12	0	21.79	0.30	19.94	<=34.77	Pass
			6	21.80	0.30	19.95	<=34.77	Pass
			13	21.73	0.30	19.88	<=34.77	Pass
		25	0	21.78	0.30	19.93	<=34.77	Pass
	713.5	1	0	22.60	0.30	20.75	<=34.77	Pass
			13	22.54	0.30	20.69	<=34.77	Pass
			24	22.69	0.30	20.84	<=34.77	Pass
		12	0	21.96	0.30	20.11	<=34.77	Pass
			6	21.89	0.30	20.04	<=34.77	Pass
			13	21.97	0.30	20.12	<=34.77	Pass
		25	0	21.93	0.30	20.08	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	709	1	0	23.65	0.30	21.80	<=34.77	Pass		
			25	23.81	0.30	21.96	<=34.77	Pass		
			49	23.76	0.30	21.91	<=34.77	Pass		
		25	0	22.78	0.30	20.93	<=34.77	Pass		
			13	22.82	0.30	20.97	<=34.77	Pass		
			25	22.72	0.30	20.87	<=34.77	Pass		
		50	0	22.78	0.30	20.93	<=34.77	Pass		
		710	1	0	23.36	0.30	21.51	<=34.77	Pass	
				25	23.52	0.30	21.67	<=34.77	Pass	
	49			23.53	0.30	21.68	<=34.77	Pass		
	25		0	22.83	0.30	20.98	<=34.77	Pass		
			13	22.79	0.30	20.94	<=34.77	Pass		
			25	22.75	0.30	20.90	<=34.77	Pass		
	50		0	22.82	0.30	20.97	<=34.77	Pass		
	711		1	0	23.30	0.30	21.45	<=34.77	Pass	
				25	23.34	0.30	21.49	<=34.77	Pass	
		49		23.42	0.30	21.57	<=34.77	Pass		
		25	0	22.90	0.30	21.05	<=34.77	Pass		
			13	22.86	0.30	21.01	<=34.77	Pass		
			25	22.88	0.30	21.03	<=34.77	Pass		
		50	0	22.91	0.30	21.06	<=34.77	Pass		
		16QAM	709	1	0	22.48	0.30	20.63	<=34.77	Pass
					25	22.52	0.30	20.67	<=34.77	Pass
	49				22.64	0.30	20.79	<=34.77	Pass	
	25			0	21.81	0.30	19.96	<=34.77	Pass	
				13	21.82	0.30	19.97	<=34.77	Pass	
25				21.73	0.30	19.88	<=34.77	Pass		
50	0			21.70	0.30	19.85	<=34.77	Pass		
710	1			0	22.37	0.30	20.52	<=34.77	Pass	
				25	22.48	0.30	20.63	<=34.77	Pass	
			49	22.56	0.30	20.71	<=34.77	Pass		
	25		0	21.88	0.30	20.03	<=34.77	Pass		
			13	21.85	0.30	20.00	<=34.77	Pass		
			25	21.80	0.30	19.95	<=34.77	Pass		
	50		0	21.83	0.30	19.98	<=34.77	Pass		
	711		1	0	22.50	0.30	20.65	<=34.77	Pass	
				25	22.50	0.30	20.65	<=34.77	Pass	
49				22.59	0.30	20.74	<=34.77	Pass		
25			0	21.91	0.30	20.06	<=34.77	Pass		
			13	21.88	0.30	20.03	<=34.77	Pass		
			25	21.93	0.30	20.08	<=34.77	Pass		
50			0	21.87	0.30	20.02	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15										

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 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	2.446	0.0035	-2.5 to 2.5	Pass
					3.85	0.057	0.0001	-2.5 to 2.5	Pass
					4.43	-1.259	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	0.672	0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				10	3.85	0.687	0.0010	-2.5 to 2.5	Pass
				30	3.85	0.415	0.0006	-2.5 to 2.5	Pass
				40	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				50	3.85	2.875	0.0041	-2.5 to 2.5	Pass
	710	25	0	20	3.27	1.144	0.0016	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
					4.43	-0.973	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	1.988	0.0028	-2.5 to 2.5	Pass
				-10	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				0	3.85	0.329	0.0005	-2.5 to 2.5	Pass
				10	3.85	-3.791	-0.0053	-2.5 to 2.5	Pass
				30	3.85	1.345	0.0019	-2.5 to 2.5	Pass
				40	3.85	3.433	0.0048	-2.5 to 2.5	Pass
				50	3.85	-3.862	-0.0054	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	3.347	0.0047	-2.5 to 2.5	Pass
					3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.858	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				-20	3.85	2.117	0.0030	-2.5 to 2.5	Pass
				-10	3.85	-2.260	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-2.060	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
16QAM	706.5	25	0	20	3.27	0.758	0.0011	-2.5 to 2.5	Pass
					3.85	2.832	0.0040	-2.5 to 2.5	Pass
					4.43	-3.333	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				0	3.85	0.958	0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
				40	3.85	0.644	0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-1.402	-0.0020	-2.5 to 2.5	Pass
					3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
					4.43	-2.246	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-1.388	-0.0020	-2.5 to 2.5	Pass

				0	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-3.948	-0.0056	-2.5 to 2.5	Pass
				30	3.85	-1.717	-0.0024	-2.5 to 2.5	Pass
				40	3.85	4.849	0.0068	-2.5 to 2.5	Pass
				50	3.85	0.515	0.0007	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.129	-0.0002	-2.5 to 2.5	Pass
					3.85	1.874	0.0026	-2.5 to 2.5	Pass
					4.43	0.873	0.0012	-2.5 to 2.5	Pass
				-30	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				0	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				10	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				30	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
				40	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				50	3.85	0.772	0.0011	-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	-3.505	-0.0049	-2.5 to 2.5	Pass
					3.85	0.243	0.0003	-2.5 to 2.5	Pass
					4.43	-1.073	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-3.247	-0.0046	-2.5 to 2.5	Pass
				0	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-3.061	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
	710	50	0	50	3.85	-2.646	-0.0037	-2.5 to 2.5	Pass
				20	3.27	-2.332	-0.0033	-2.5 to 2.5	Pass
					3.85	-1.302	-0.0018	-2.5 to 2.5	Pass
					4.43	-3.047	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-3.204	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
	711	50	0	40	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-1.659	-0.0023	-2.5 to 2.5	Pass
				20	3.27	3.748	0.0053	-2.5 to 2.5	Pass
					3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
					4.43	0.944	0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-1.702	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-0.815	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.27	-2.260	-0.0032	-2.5 to 2.5	Pass
					3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
					4.43	-1.488	-0.0021	-2.5 to 2.5	Pass
				50	3.85	1.087	0.0015	-2.5 to 2.5	Pass

				-30	3.85	-2.060	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-2.117	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-3.519	-0.0050	-2.5 to 2.5	Pass
				10	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				30	3.85	1.173	0.0017	-2.5 to 2.5	Pass
				40	3.85	0.558	0.0008	-2.5 to 2.5	Pass
				50	3.85	-2.017	-0.0028	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-1.874	-0.0026	-2.5 to 2.5	Pass
					3.85	-3.247	-0.0046	-2.5 to 2.5	Pass
					4.43	-1.359	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-2.360	-0.0033	-2.5 to 2.5	Pass
				0	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				30	3.85	1.144	0.0016	-2.5 to 2.5	Pass
				40	3.85	-2.275	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-2.904	-0.0041	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-2.131	-0.0030	-2.5 to 2.5	Pass
					3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
					4.43	-0.687	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.257	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.644	0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-1.702	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

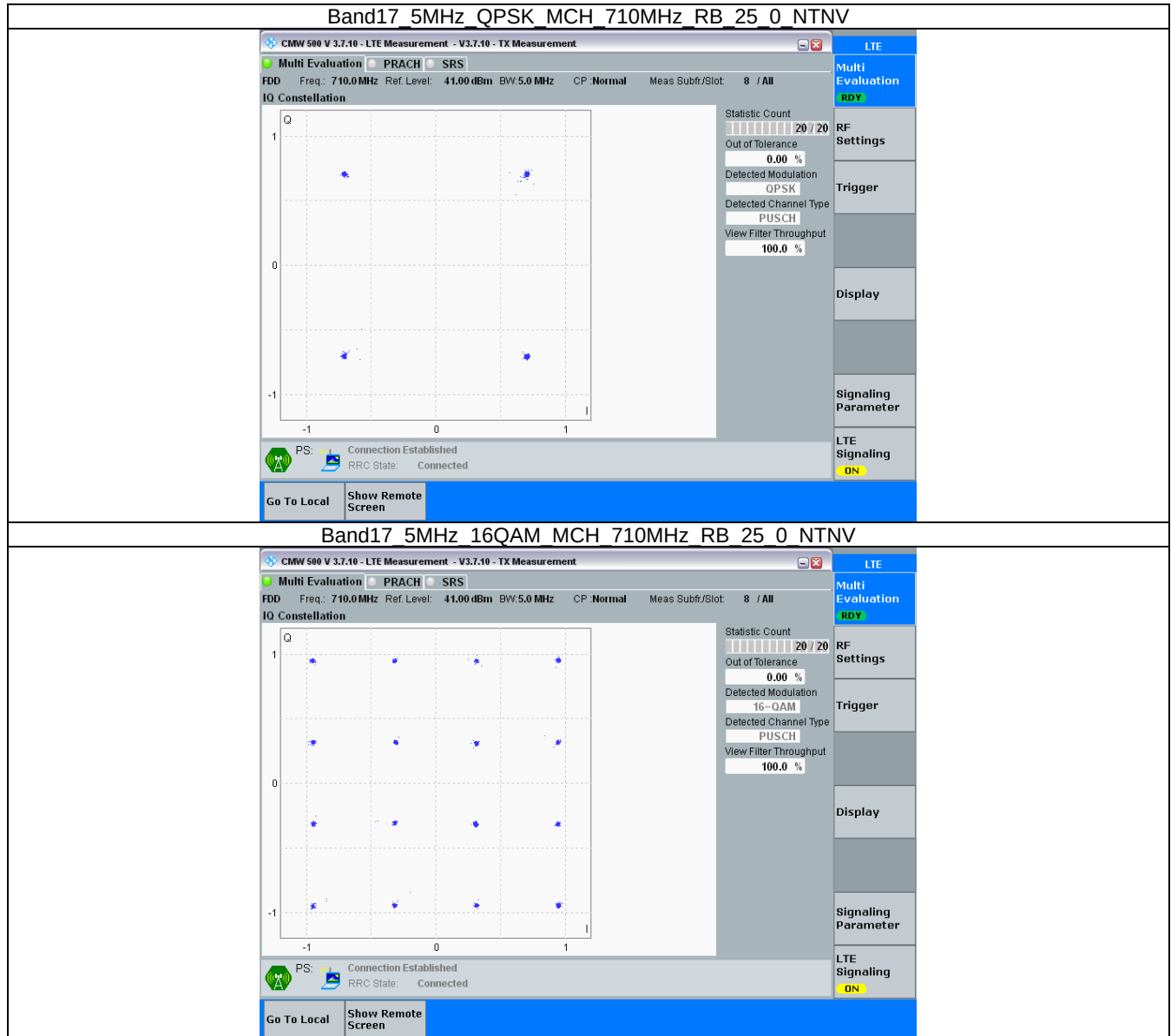
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

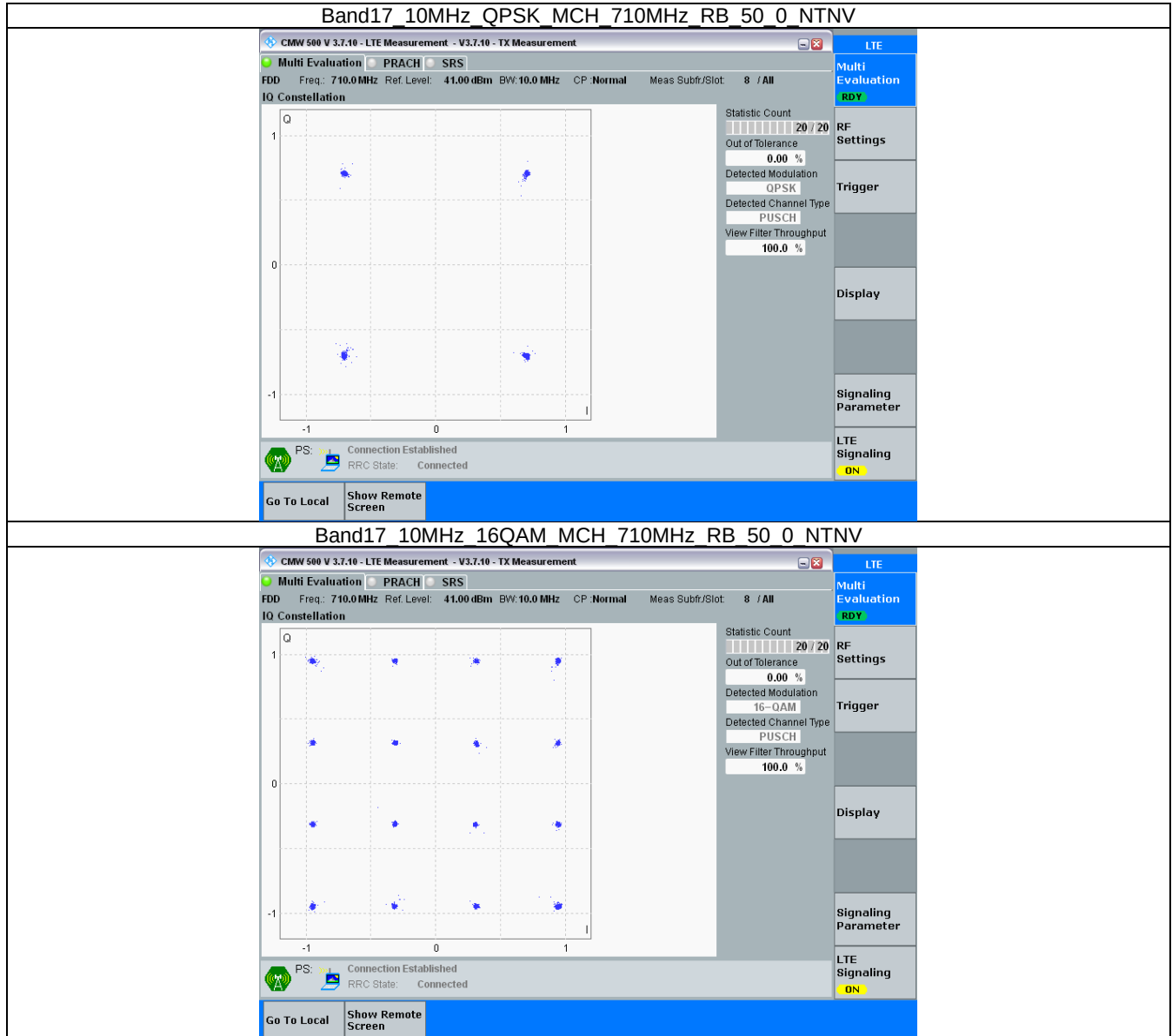
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

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	4.501	/	Pass
		710	25	0	4.503	/	Pass
		713.5	25	0	4.539	/	Pass
	16QAM	706.5	25	0	4.518	/	Pass
		710	25	0	4.522	/	Pass
		713.5	25	0	4.512	/	Pass
10	QPSK	709	50	0	8.958	/	Pass
		710	50	0	8.964	/	Pass
		711	50	0	8.971	/	Pass
	16QAM	709	50	0	8.943	/	Pass
		710	50	0	8.959	/	Pass
		711	50	0	8.957	/	Pass

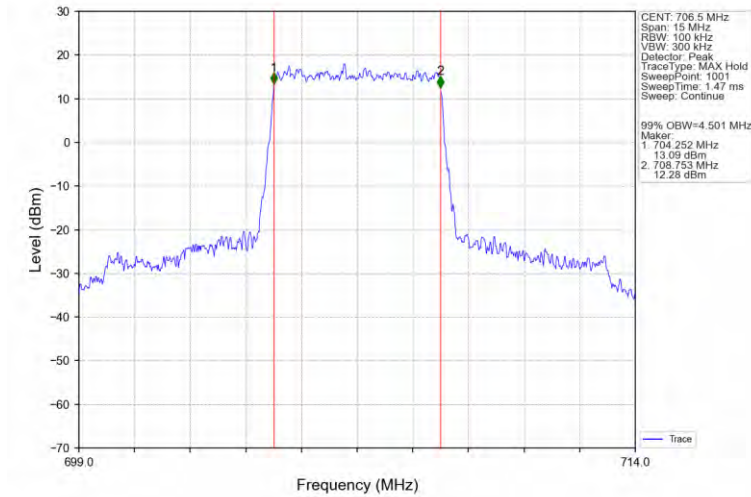
4.1.2 Band17_XDB

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.957	/	Pass
		710	25	0	4.955	/	Pass
		713.5	25	0	4.991	/	Pass
	16QAM	706.5	25	0	5.011	/	Pass
		710	25	0	4.970	/	Pass
		713.5	25	0	4.955	/	Pass
10	QPSK	709	50	0	9.589	/	Pass
		710	50	0	9.578	/	Pass
		711	50	0	9.555	/	Pass
	16QAM	709	50	0	9.592	/	Pass
		710	50	0	9.579	/	Pass
		711	50	0	9.530	/	Pass

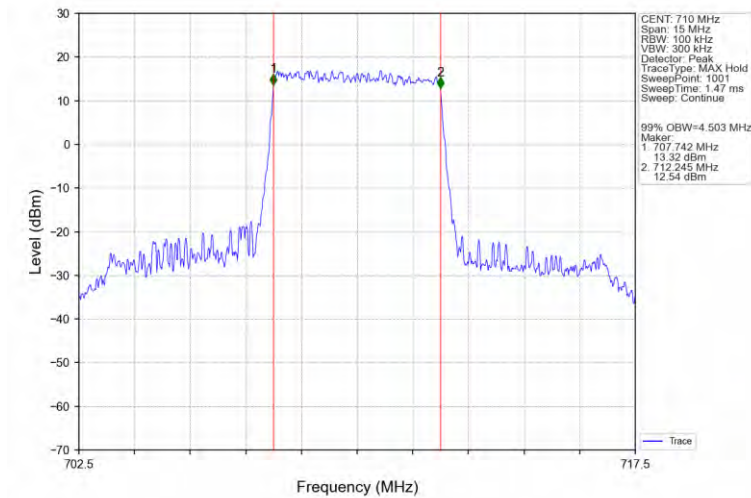
4.2 Test Graph

4.2.1 Band17_OBW

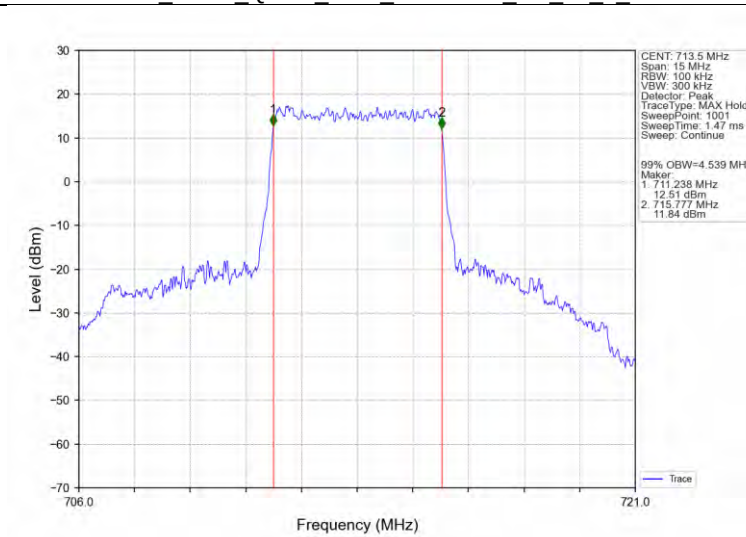
Band17 5MHz QPSK LCH 706.5MHz RB 25 0 NTNV



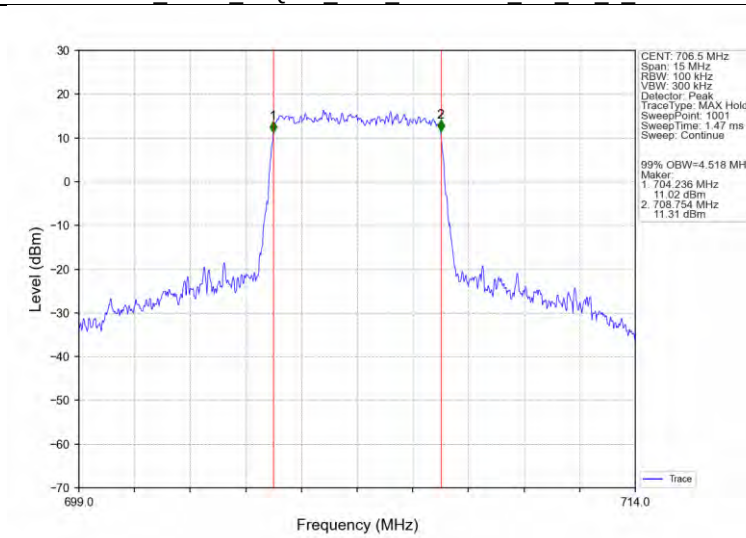
Band17 5MHz QPSK MCH 710MHz RB 25 0 NTNV



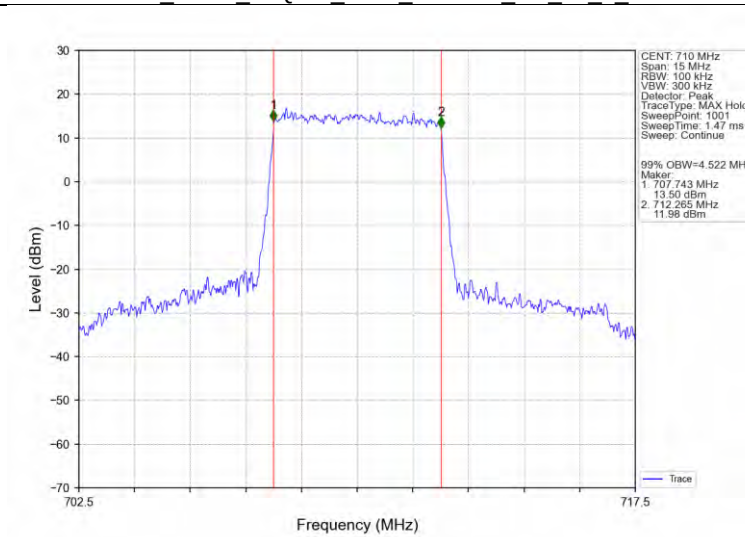
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



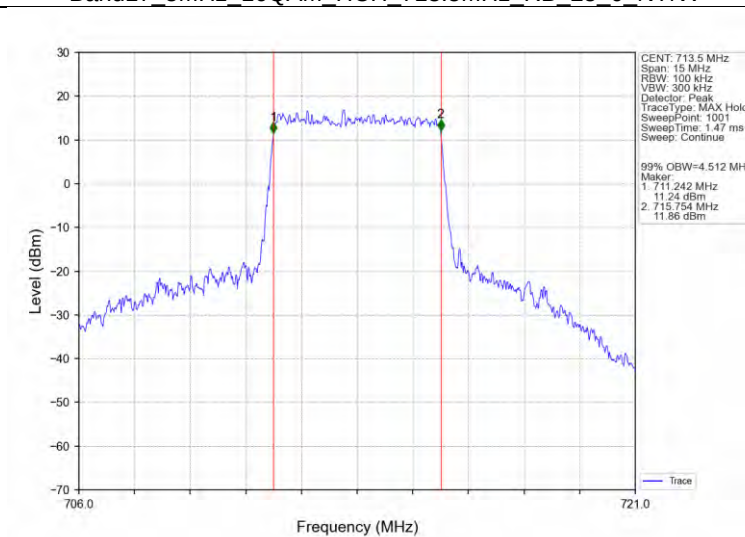
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



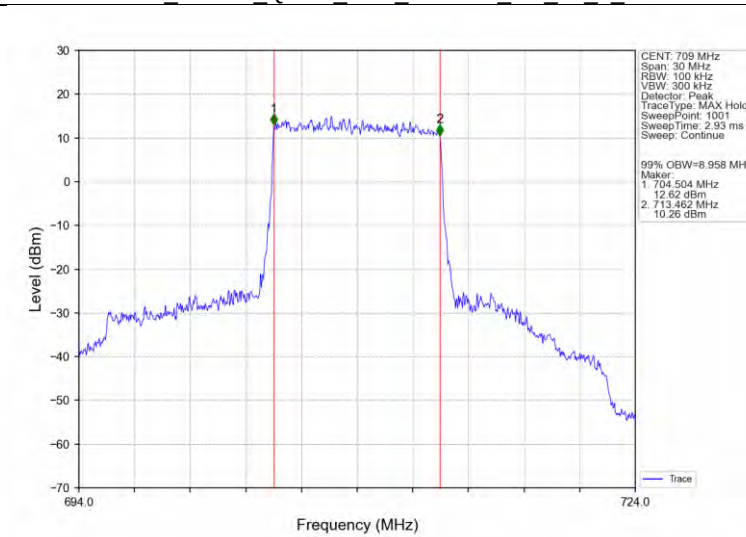
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



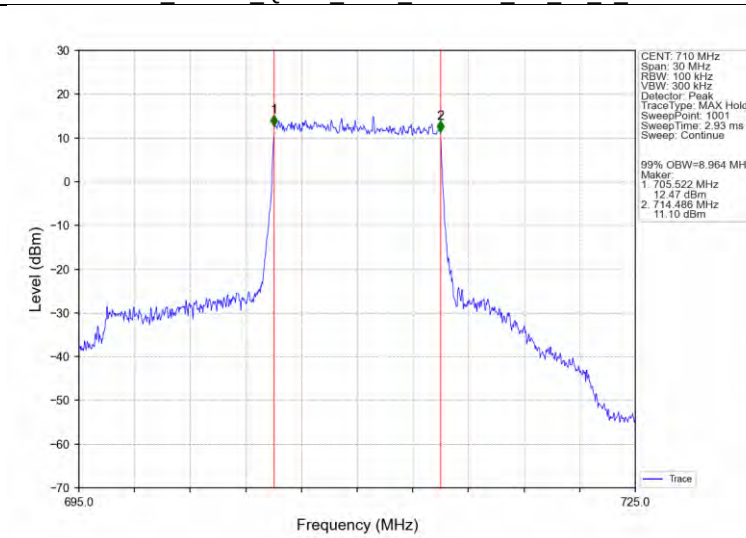
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



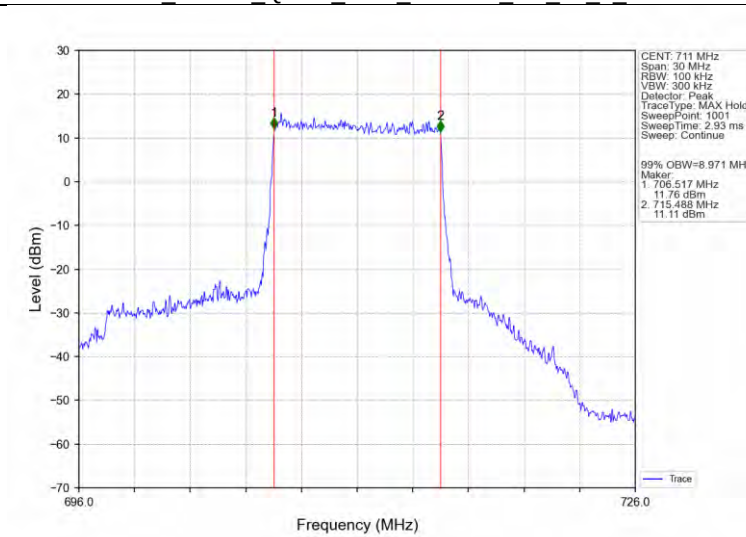
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



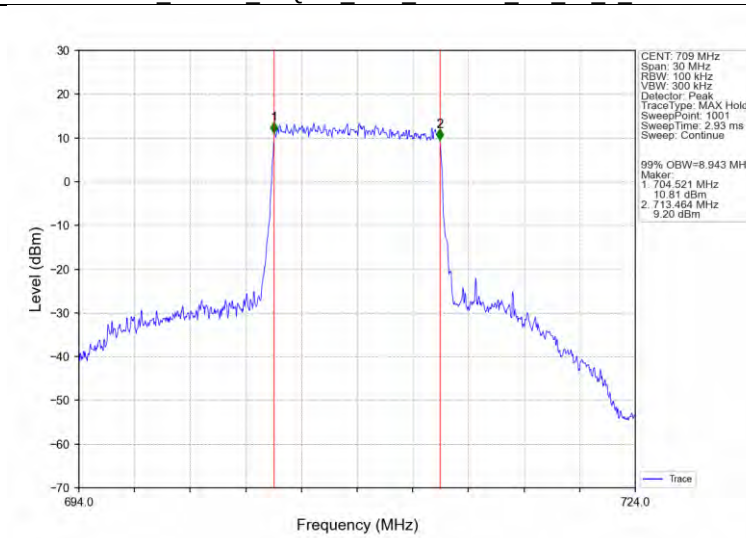
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



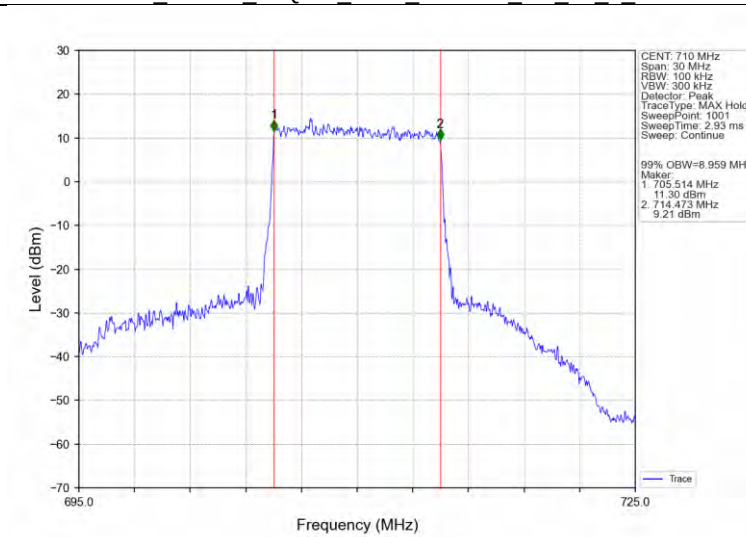
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



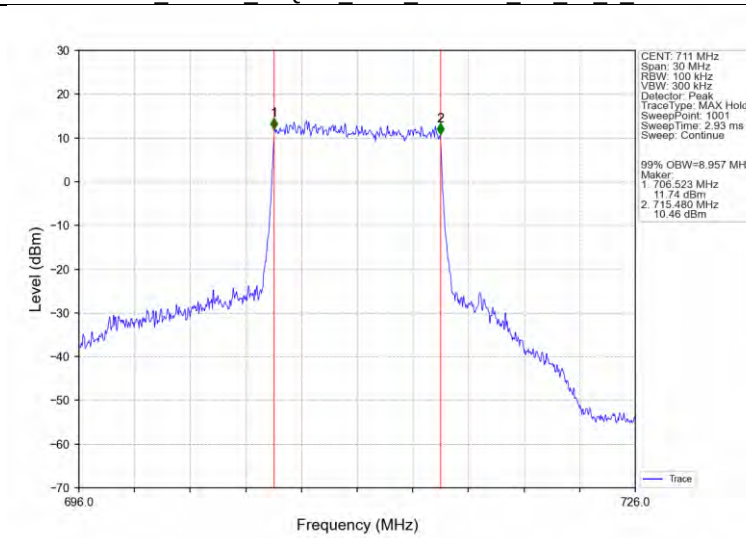
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV

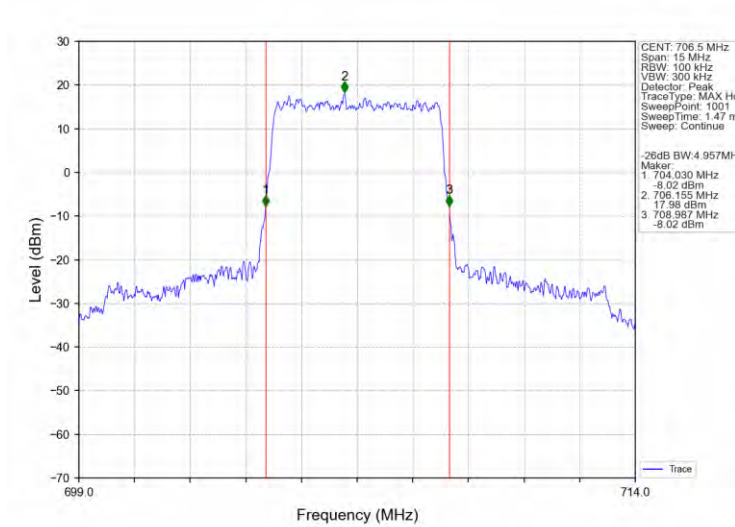


Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

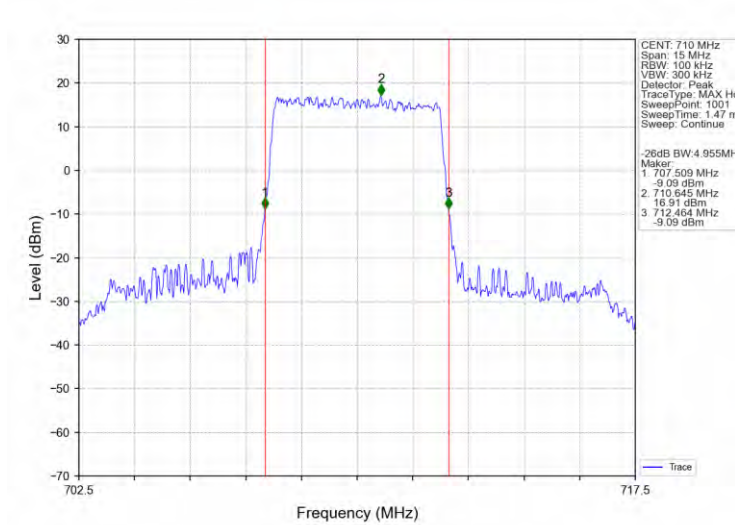


4.2.2 Band17_XDB

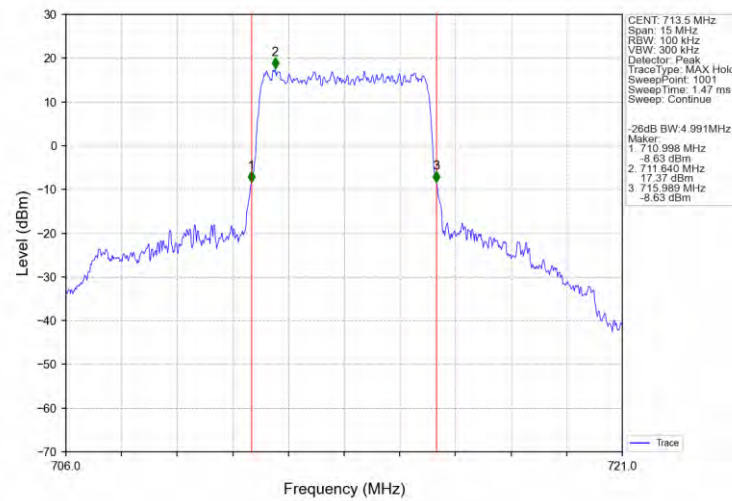
Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



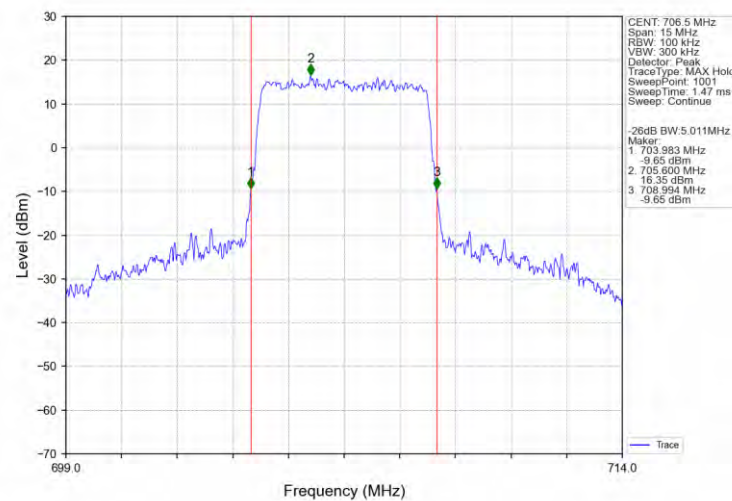
Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV



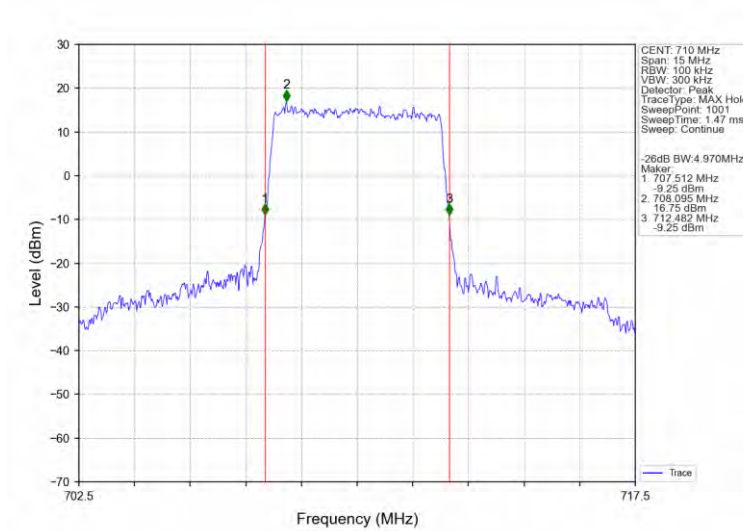
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



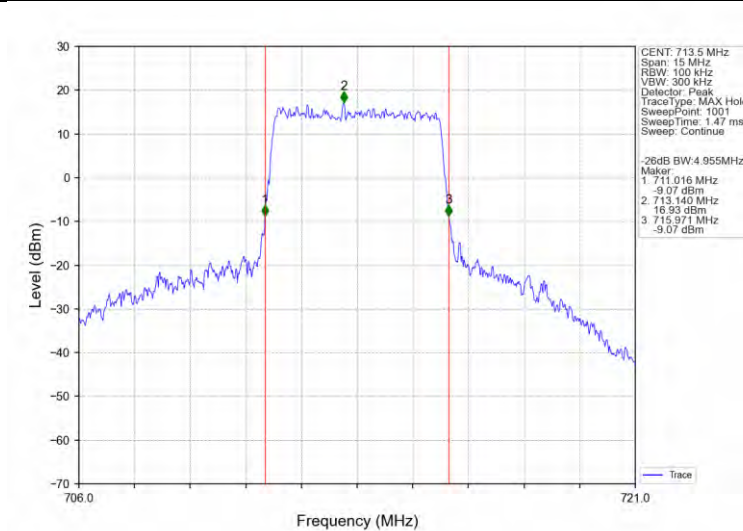
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



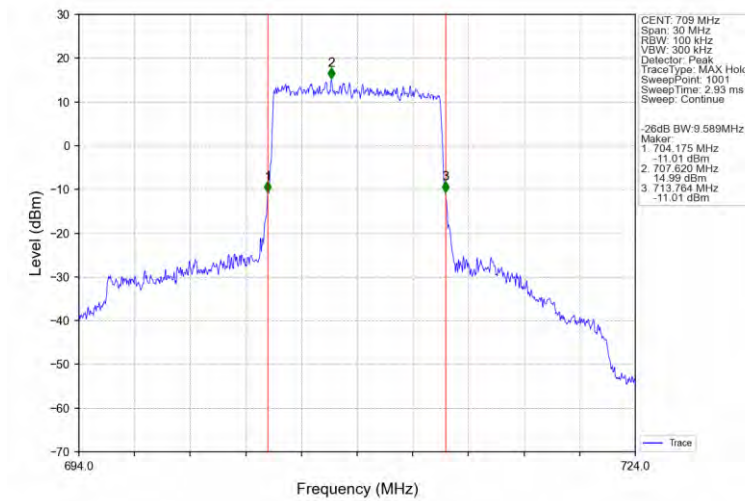
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



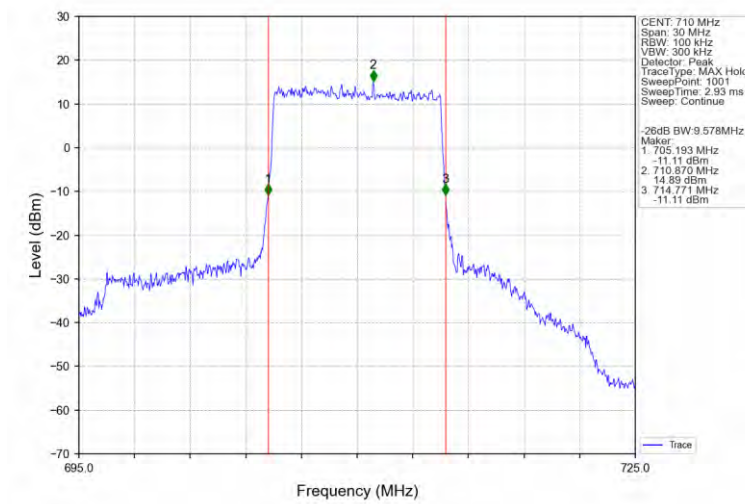
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



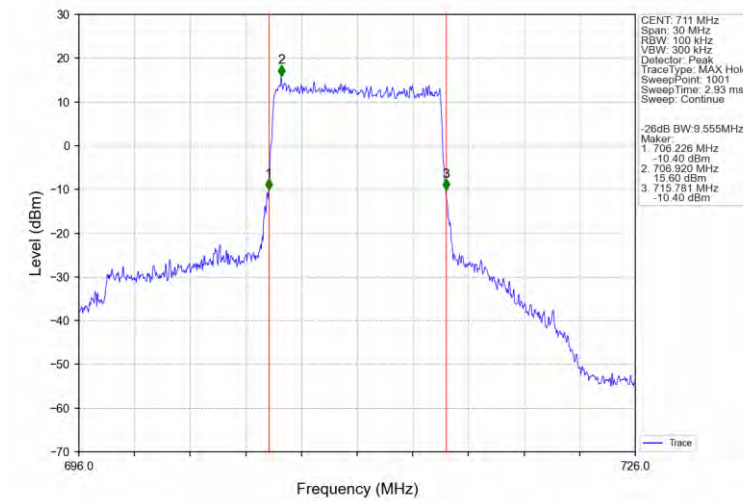
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



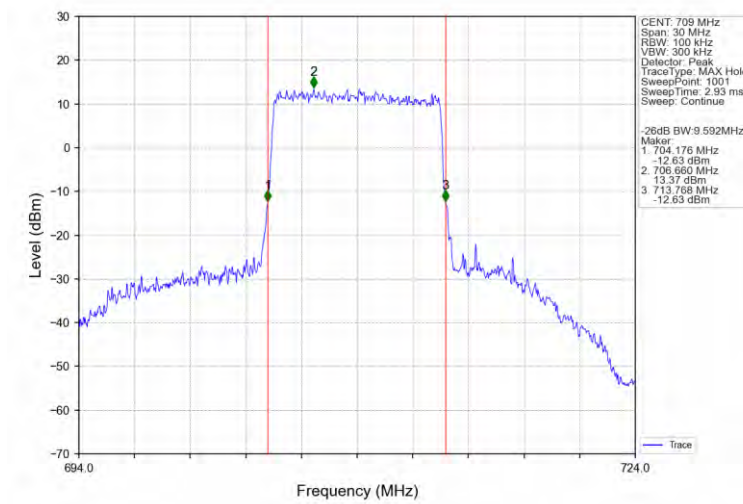
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



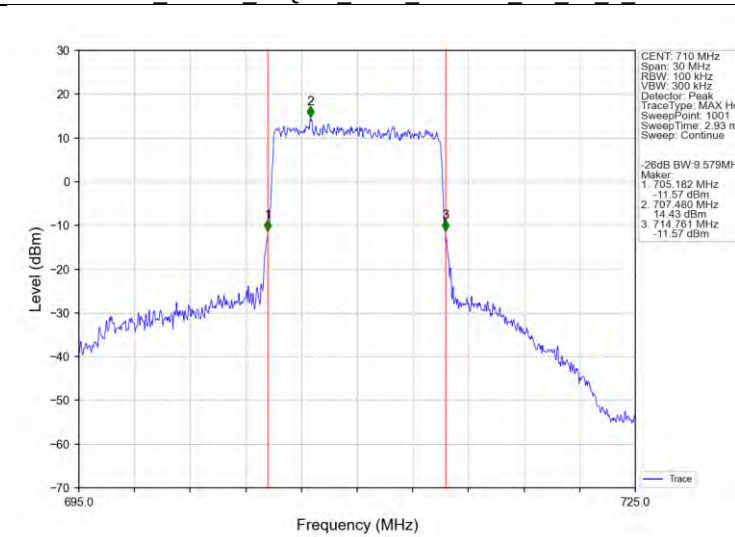
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



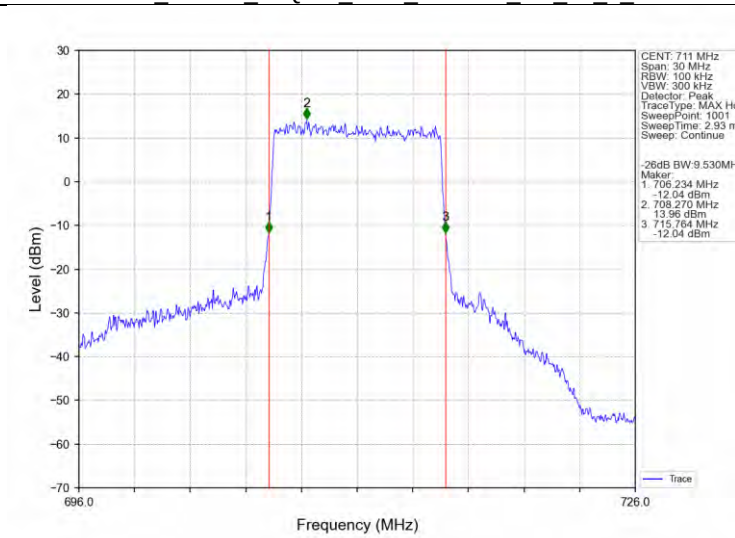
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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	5.33	≤ 13	Pass
	710	25	0	5.47	≤ 13	Pass
	713.5	25	0	5.16	≤ 13	Pass
16QAM	706.5	25	0	6.12	≤ 13	Pass
	710	25	0	6.21	≤ 13	Pass
	713.5	25	0	5.87	≤ 13	Pass

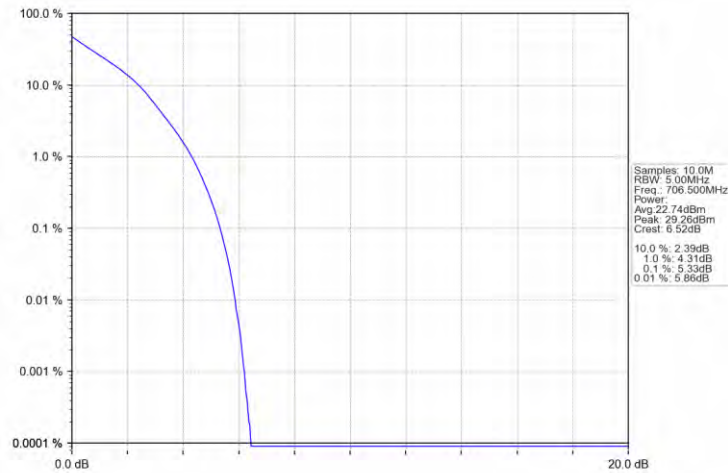
5.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.32	≤ 13	Pass
	710	50	0	5.29	≤ 13	Pass
	711	50	0	5.27	≤ 13	Pass
16QAM	709	50	0	6.15	≤ 13	Pass
	710	50	0	6.13	≤ 13	Pass
	711	50	0	6.05	≤ 13	Pass

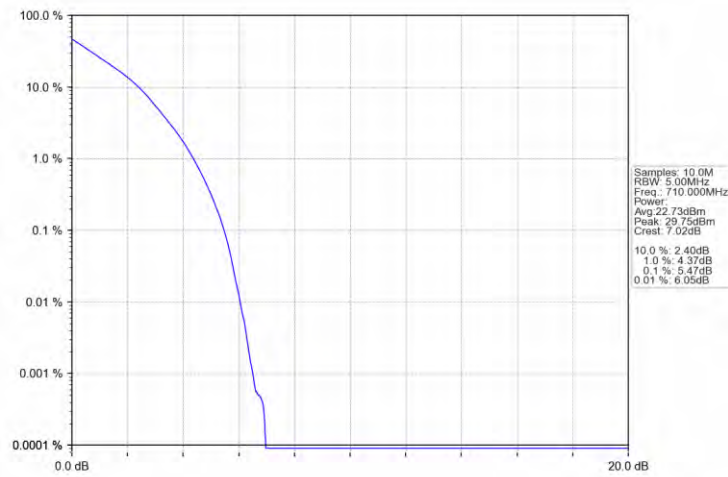
5.2 Test Graph

5.2.1 B17_5MHz

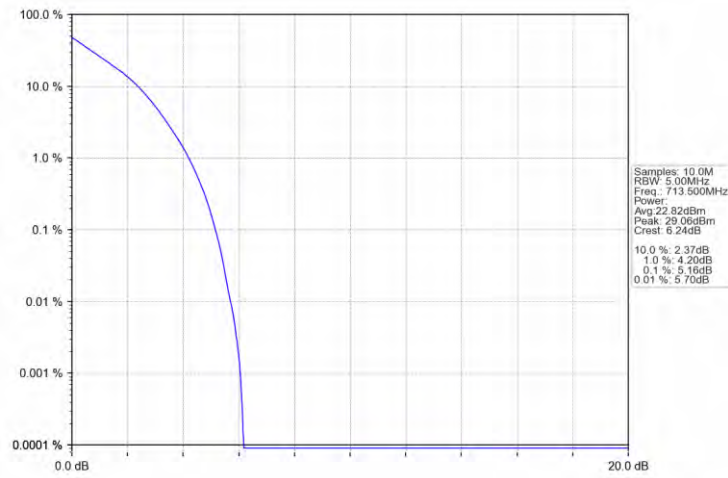
Band17 5MHz QPSK LCH 706.5MHz RB 25 0 NTNV



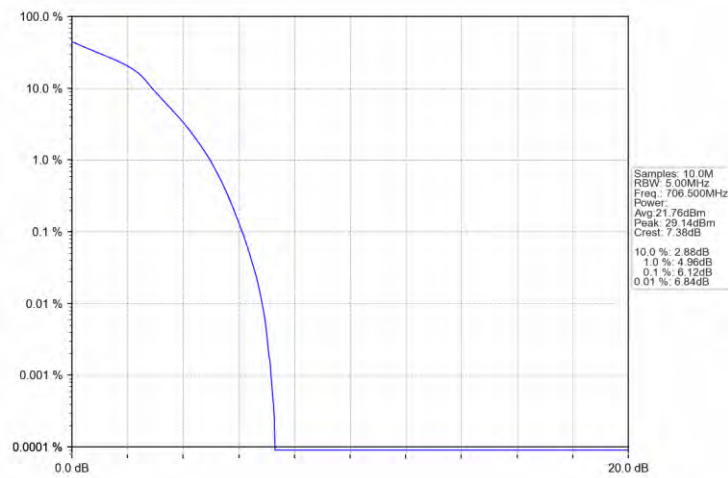
Band17 5MHz QPSK MCH 710MHz RB 25 0 NTNV



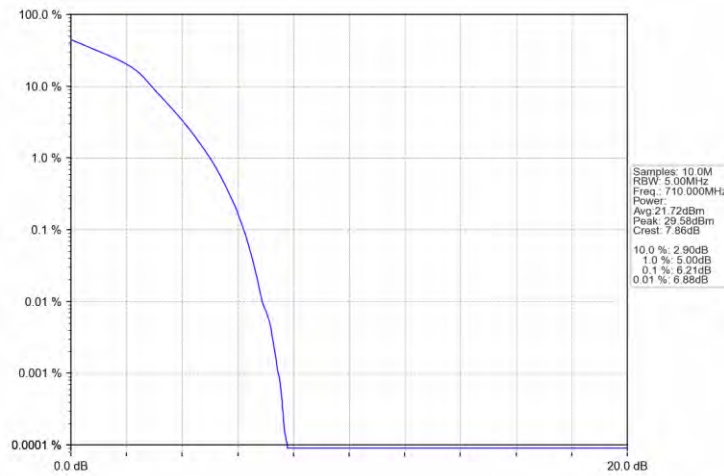
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



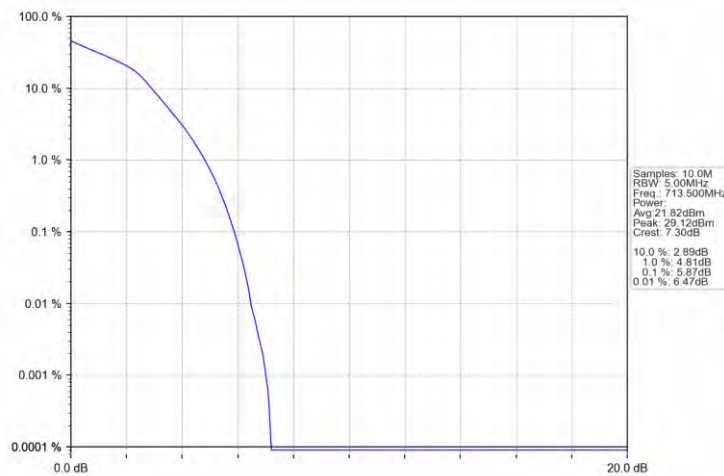
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

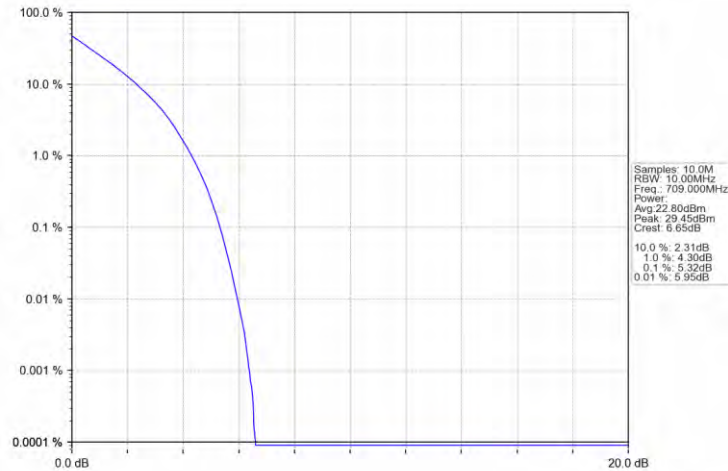


Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

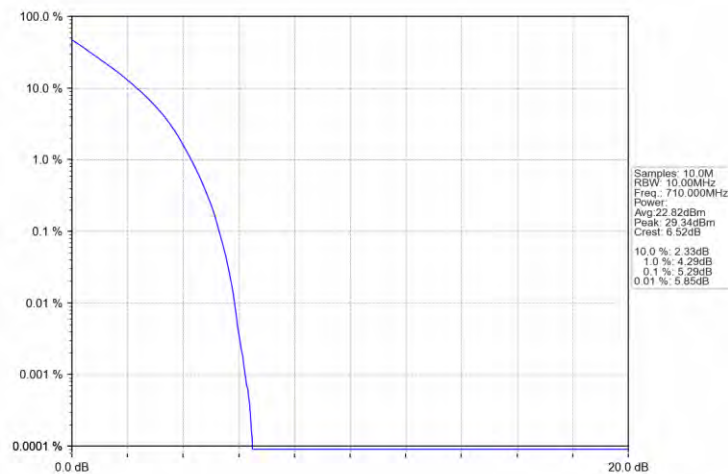


5.2.2 B17_10MHz

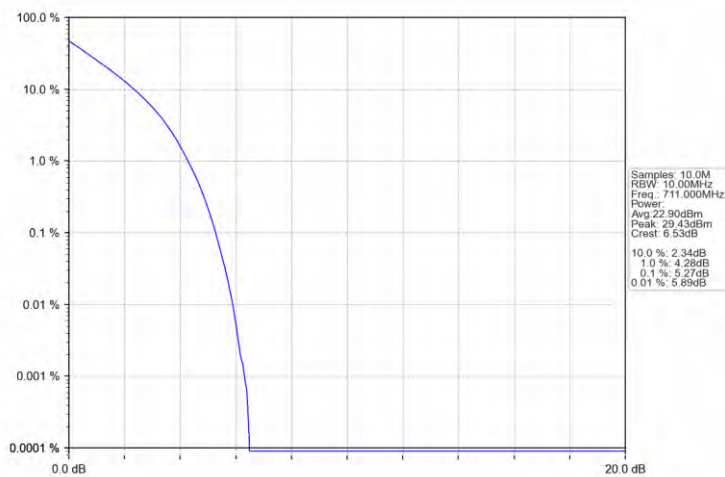
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



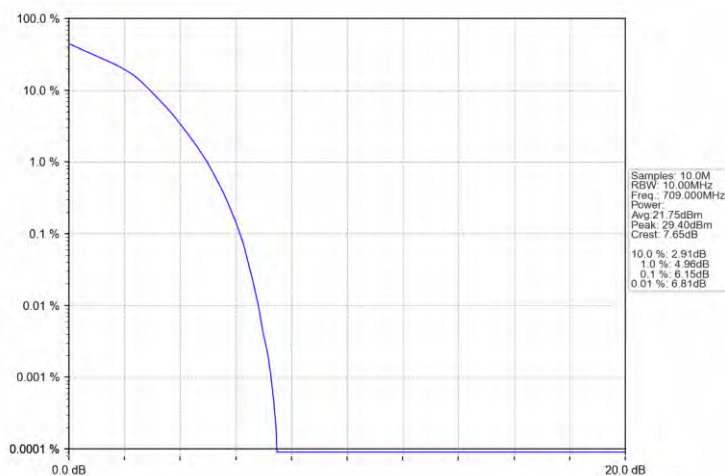
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



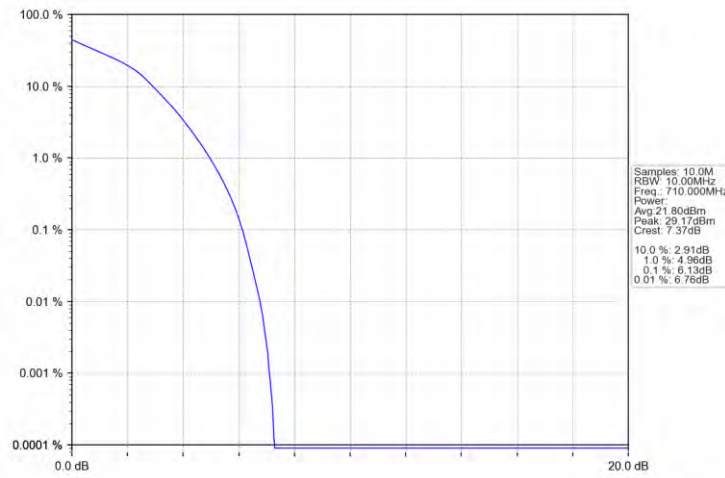
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



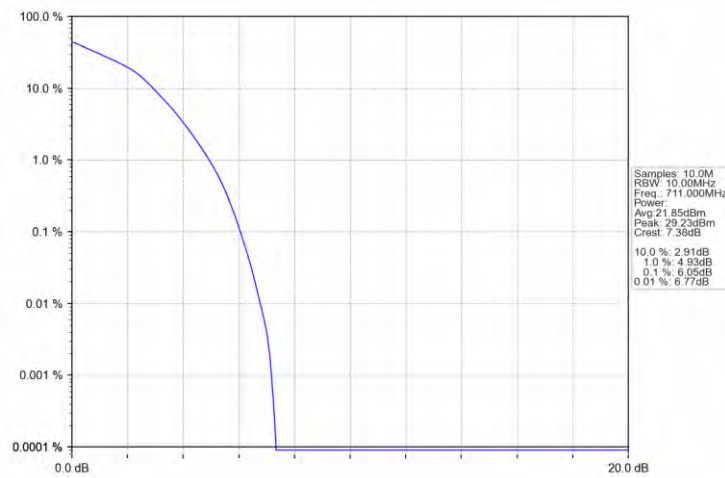
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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 / 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

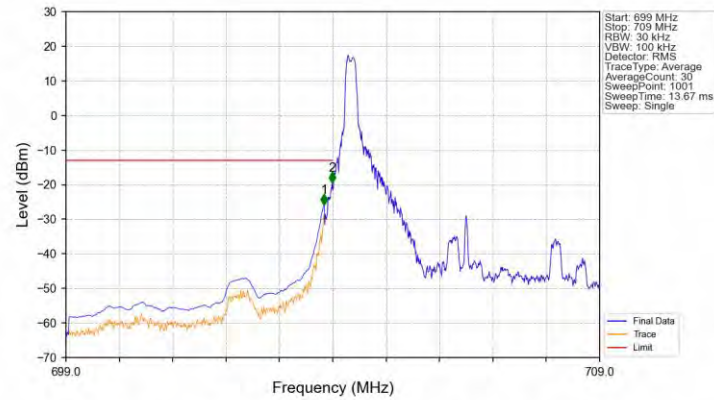
6.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / 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

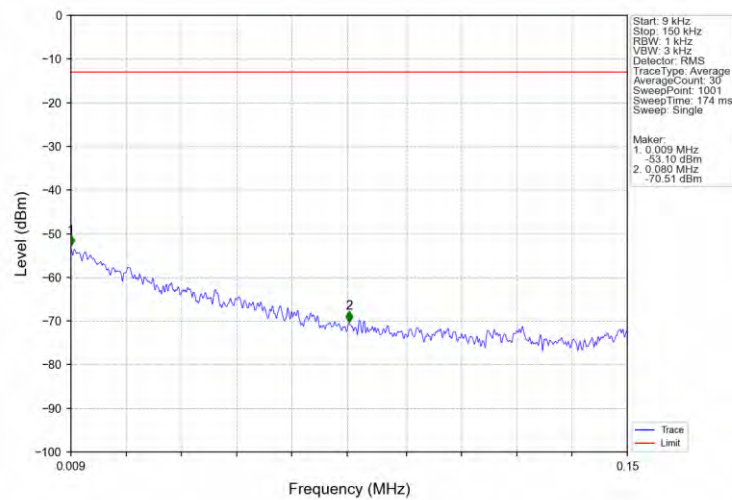
6.2.1 B17_5MHz

Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

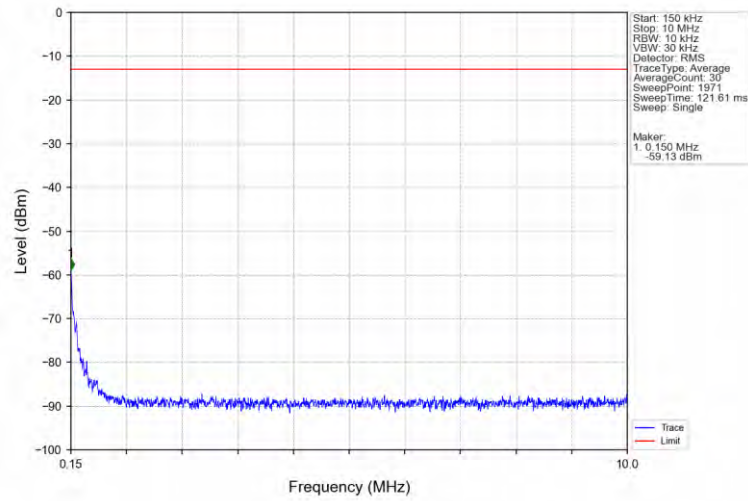


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-25.83	-13	Pass
703.9	704	0.03	/	2	703.990	-19.50	-13	Pass
704	709	0.03	/	/	/	/	/	/

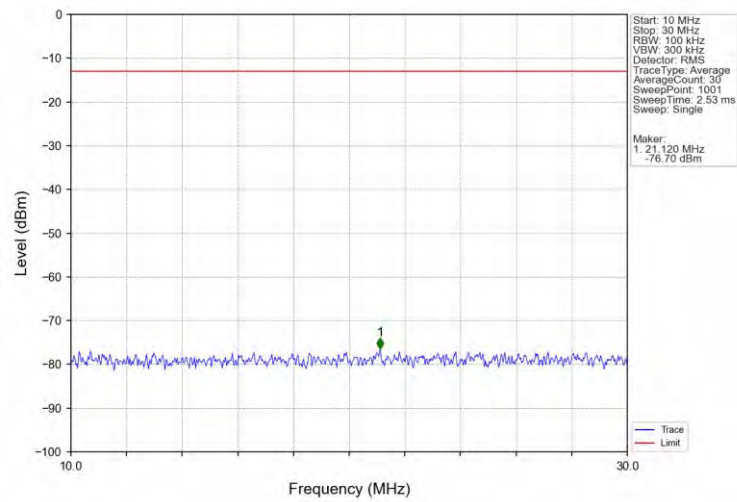
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



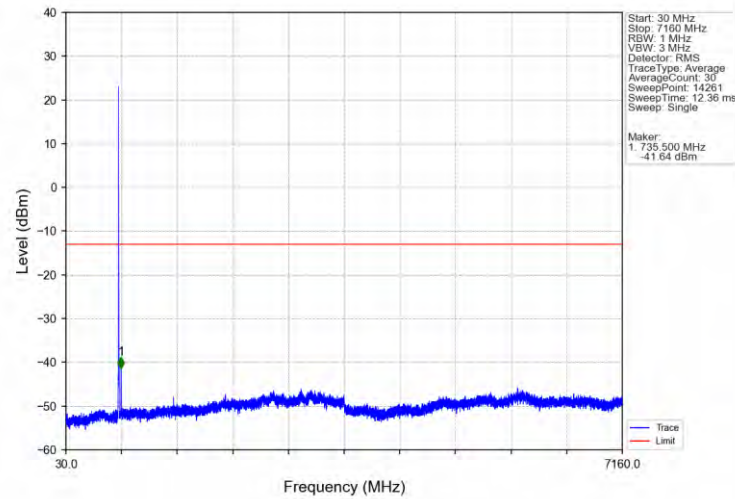
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



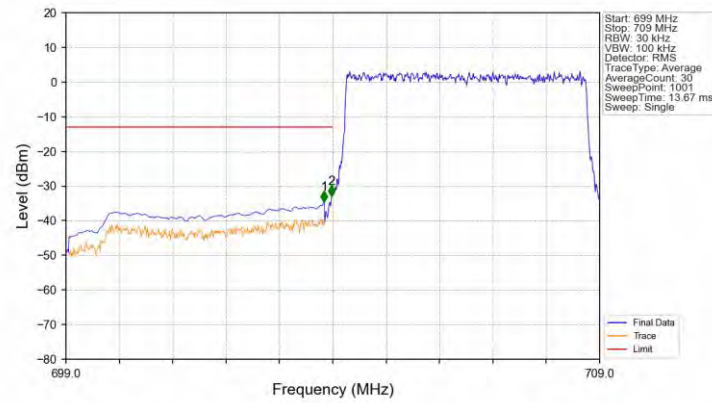
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

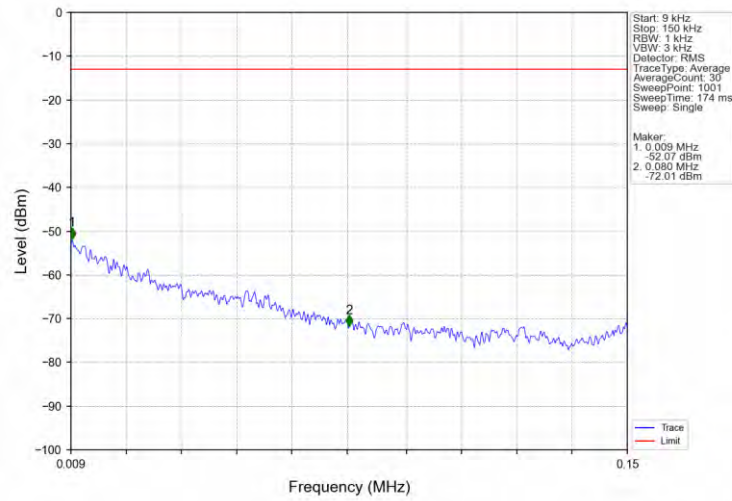


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

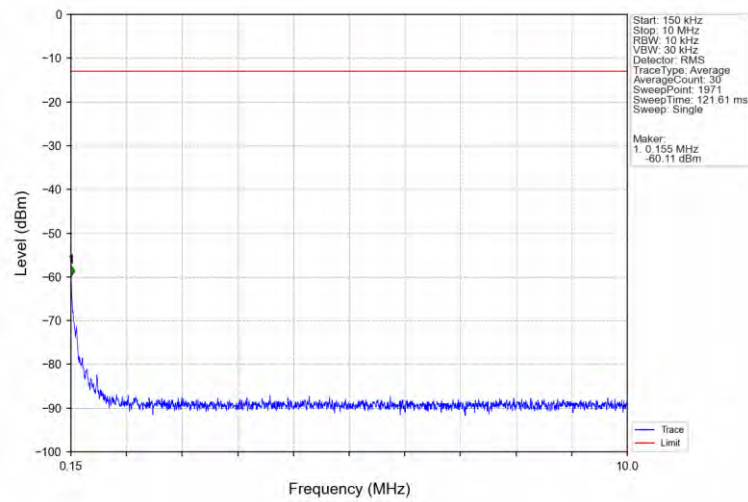


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-34.65	-13	Pass
703.9	704	0.03	/	2	703.980	-33.02	-13	Pass
704	709	0.03	/	/	/	/	/	/

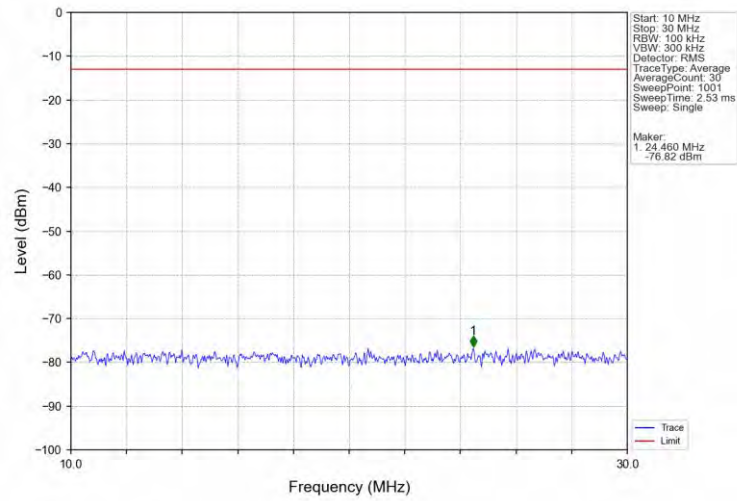
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



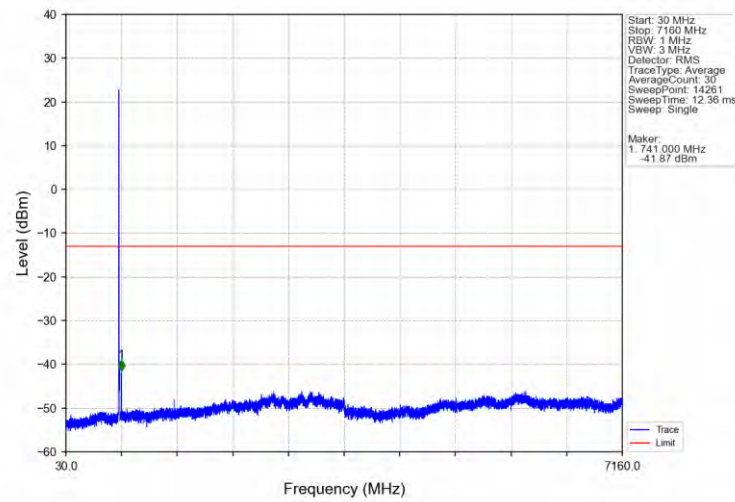
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



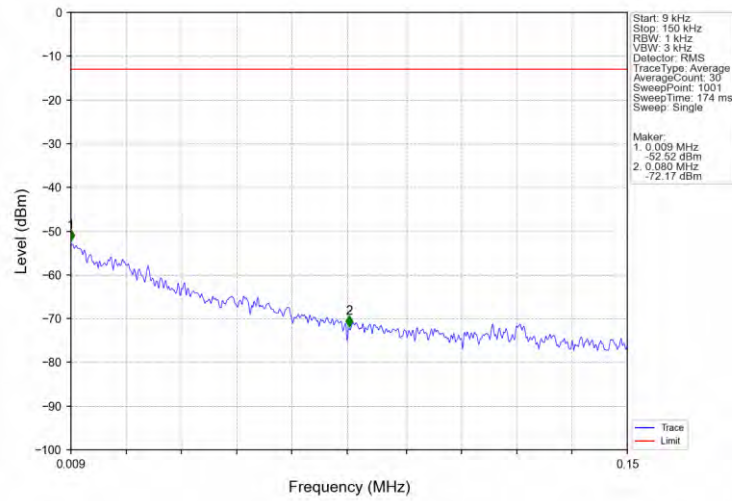
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



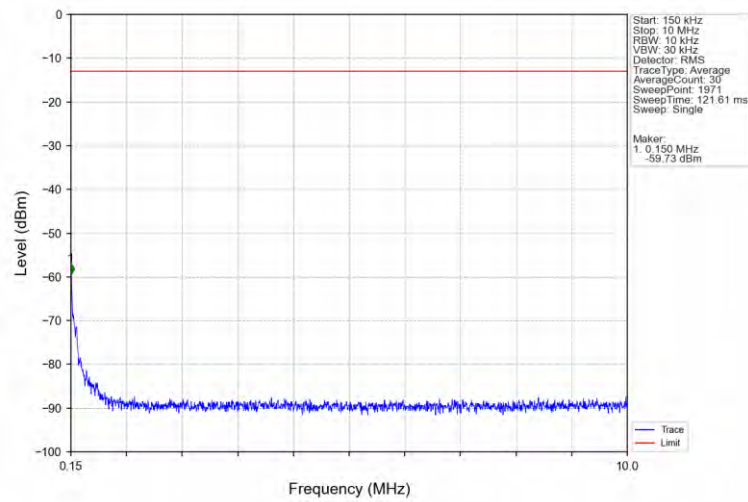
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



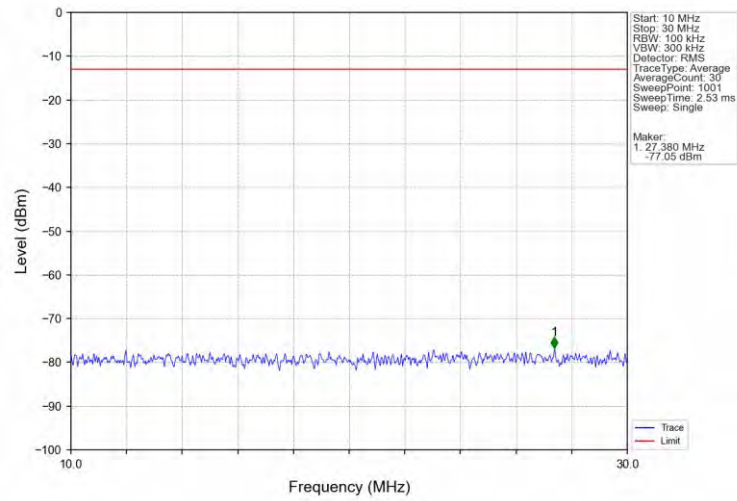
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



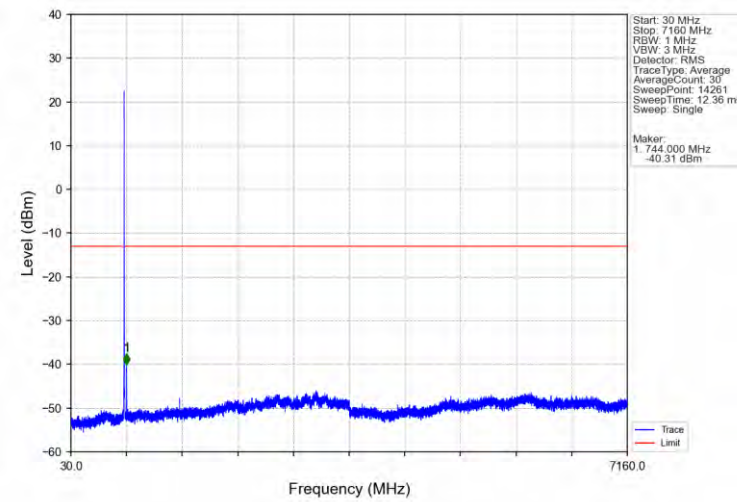
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



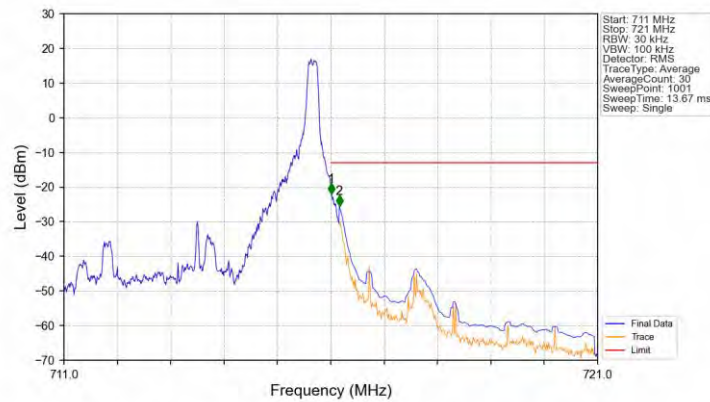
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

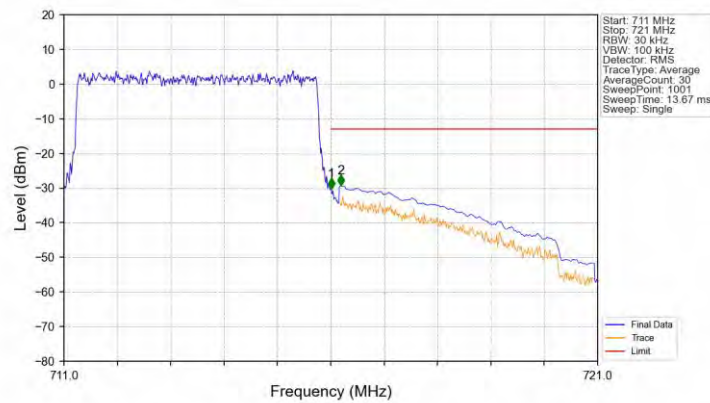


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



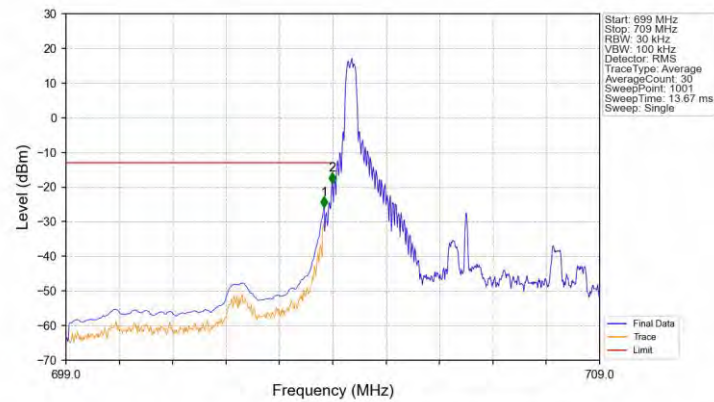
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-22.03	-13	Pass
716.1	721	0.1	CHP	2	716.160	-25.53	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



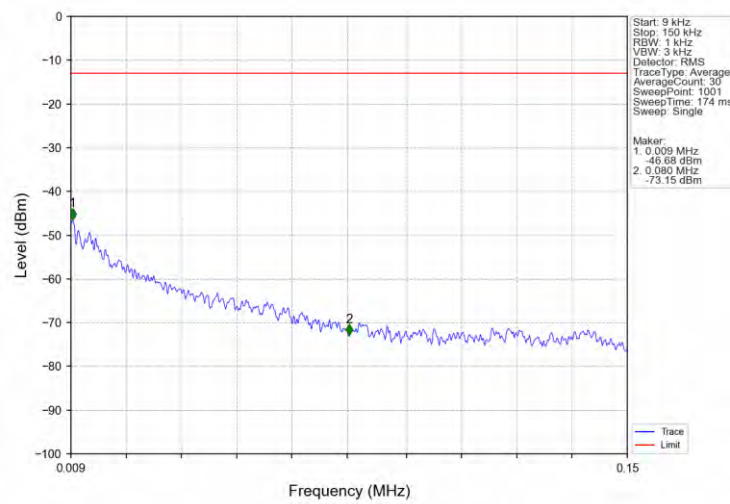
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-30.18	-13	Pass
716.1	721	0.1	CHP	2	716.190	-29.34	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

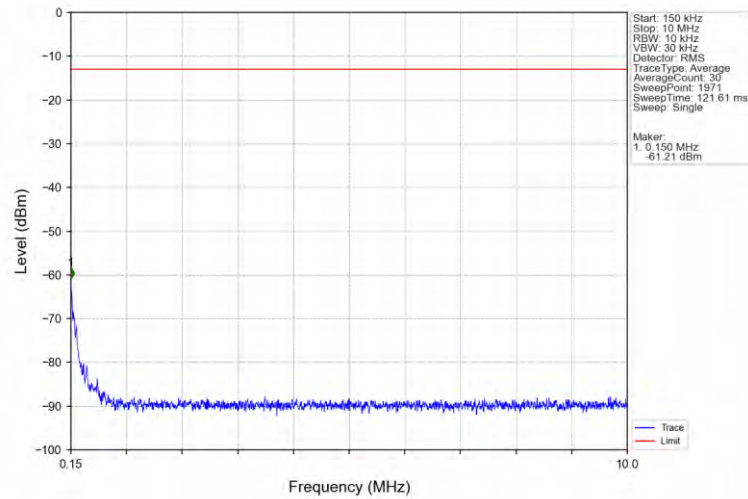


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-25.81	-13	Pass
703.9	704	0.03	/	2	703.990	-18.86	-13	Pass
704	709	0.03	/	/	/	/	/	/

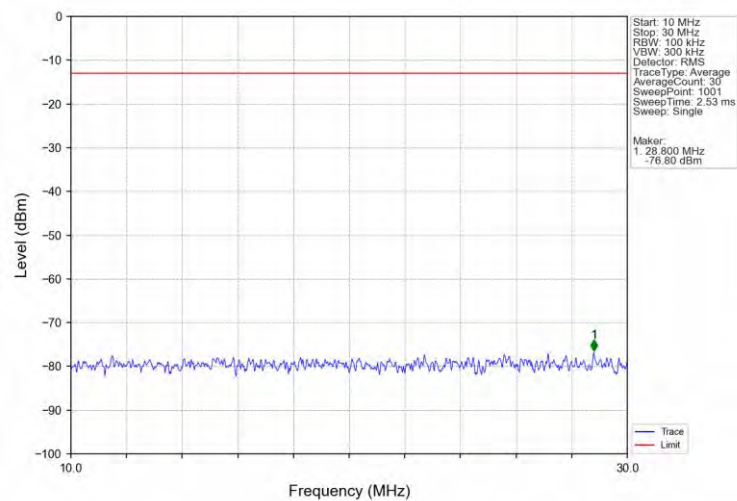
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



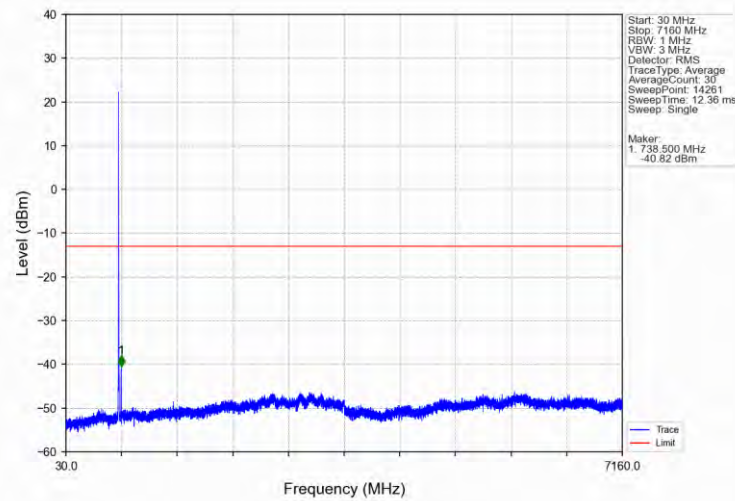
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



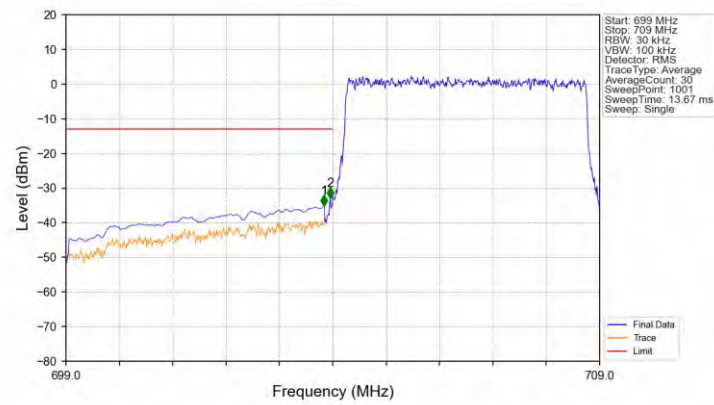
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

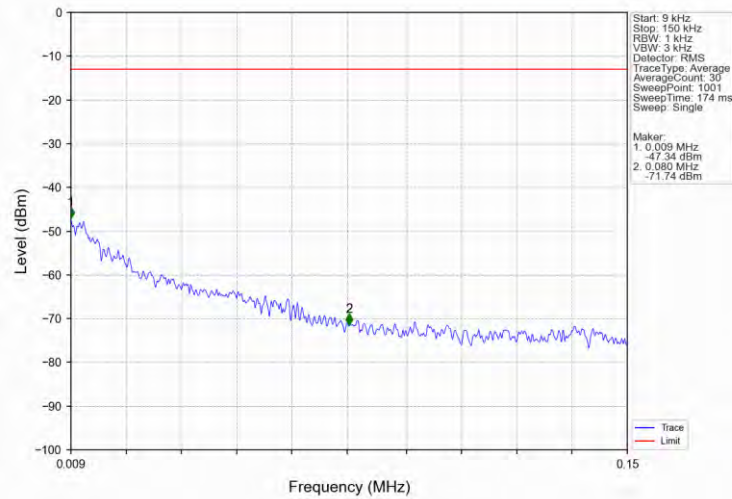


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

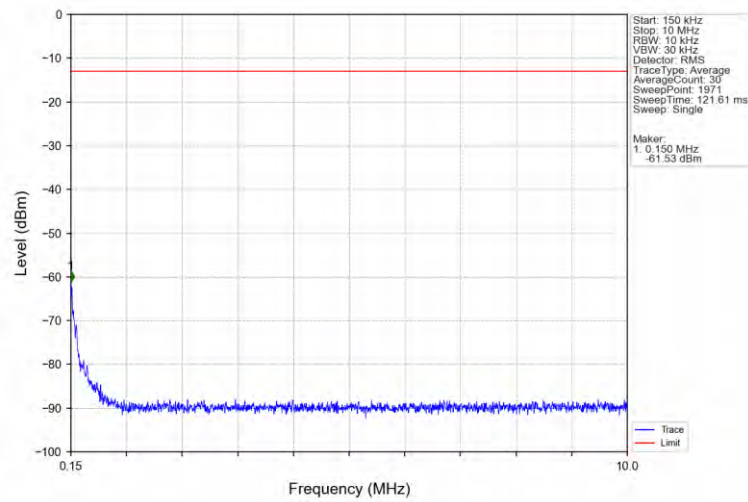


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-35.15	-13	Pass
703.9	704	0.03	/	2	703.950	-32.88	-13	Pass
704	709	0.03	/	/	/	/	/	/

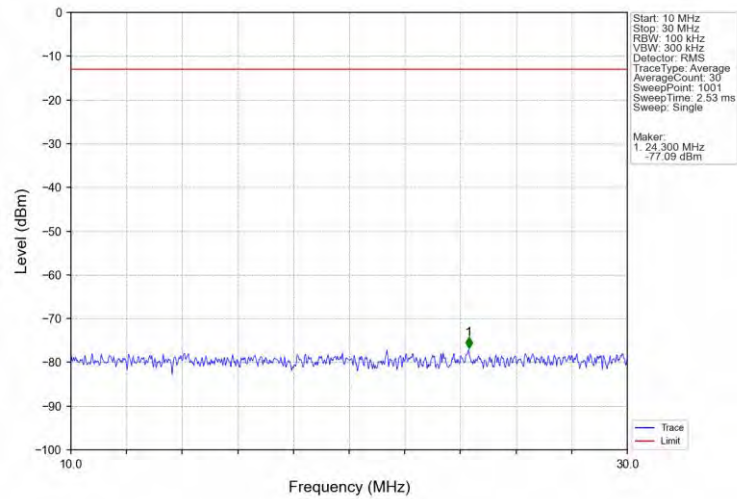
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



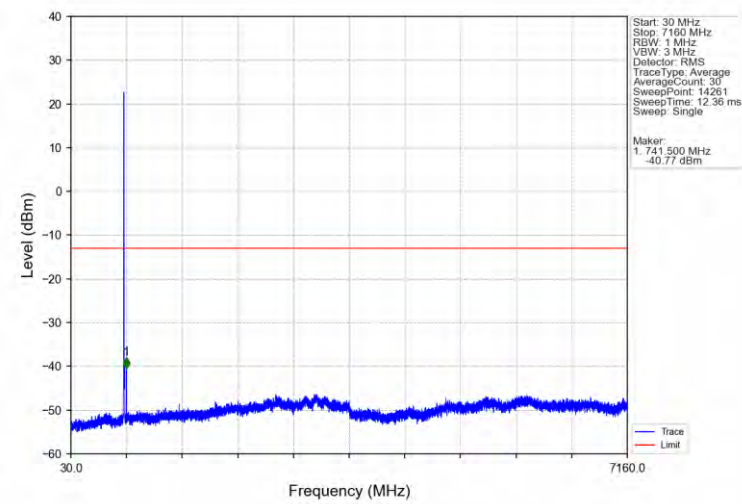
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



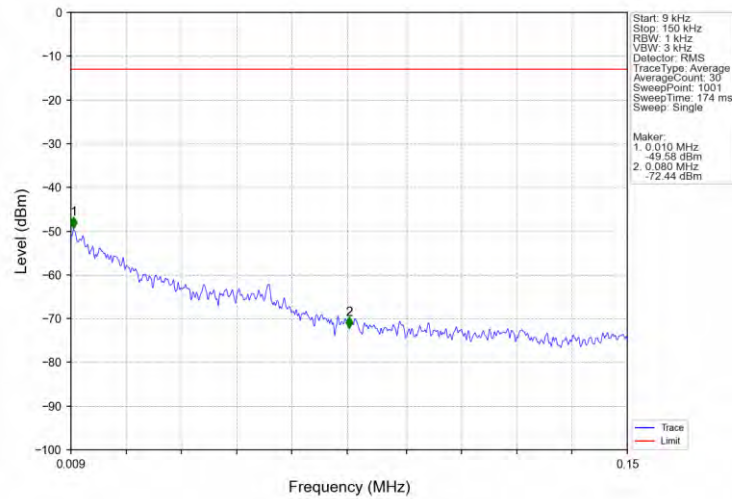
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



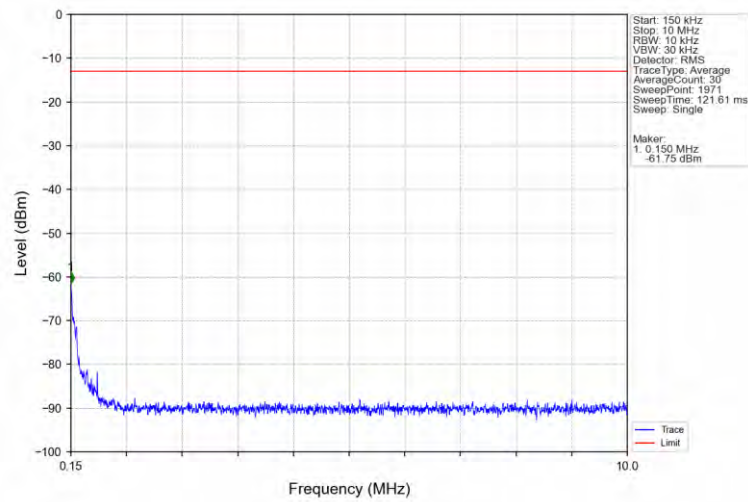
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



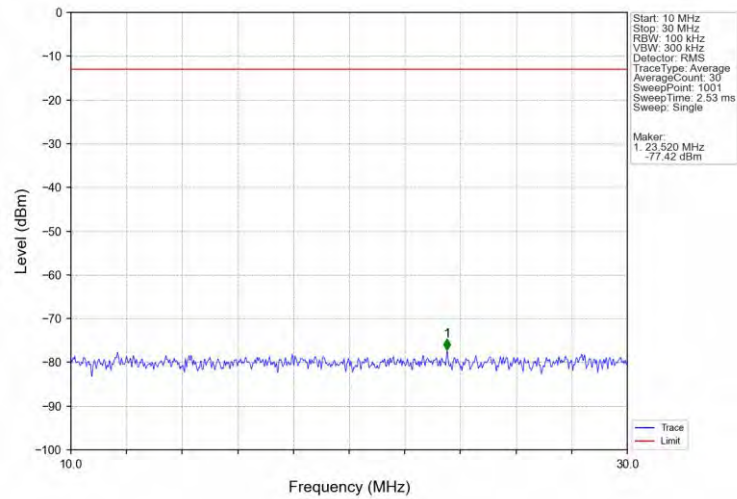
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



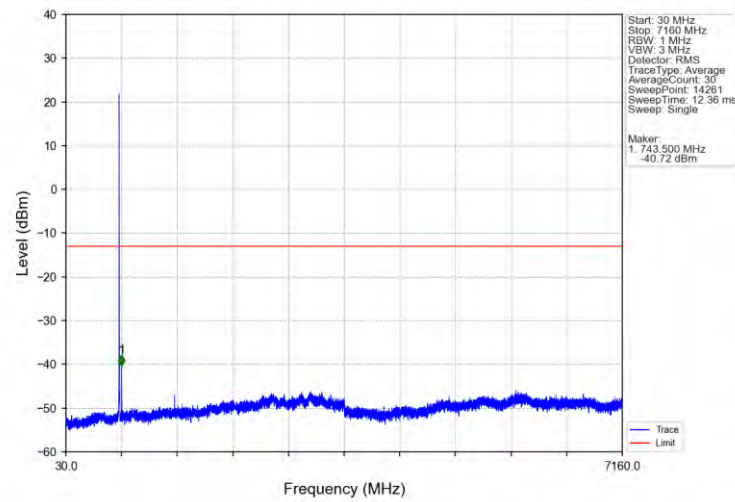
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



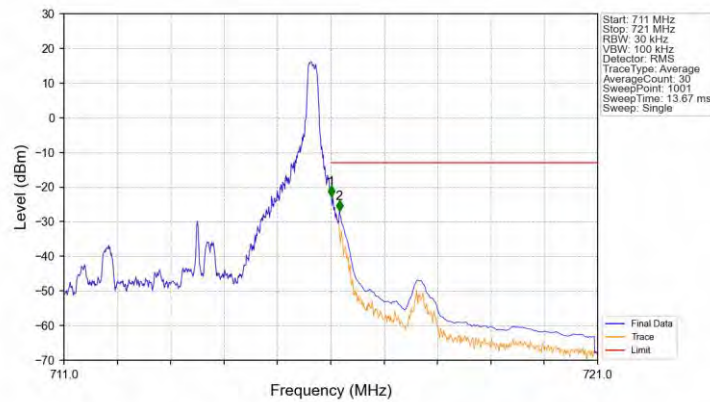
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

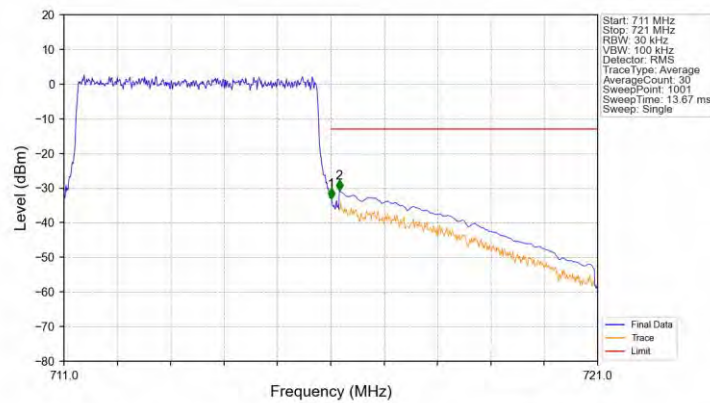


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



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	-22.70	-13	Pass
716.1	721	0.1	CHP	2	716.160	-26.96	-13	Pass

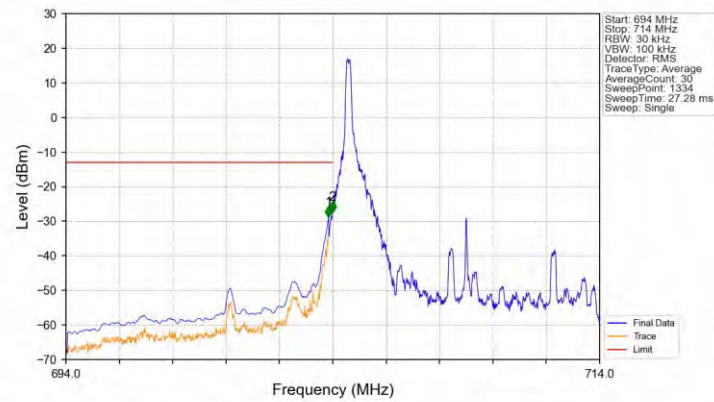
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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	-33.06	-13	Pass
716.1	721	0.1	CHP	2	716.160	-30.79	-13	Pass

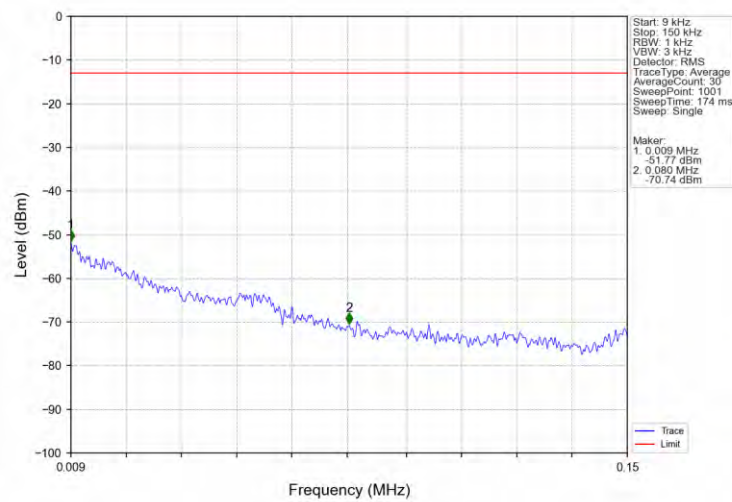
6.2.2 B17_10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

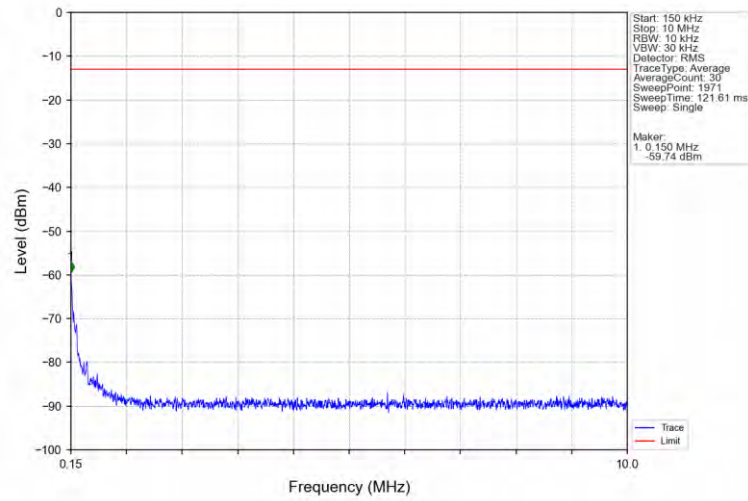


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-28.71	-13	Pass
703.9	704	0.03	/	2	703.992	-27.30	-13	Pass
704	714	0.03	/	/	/	/	/	/

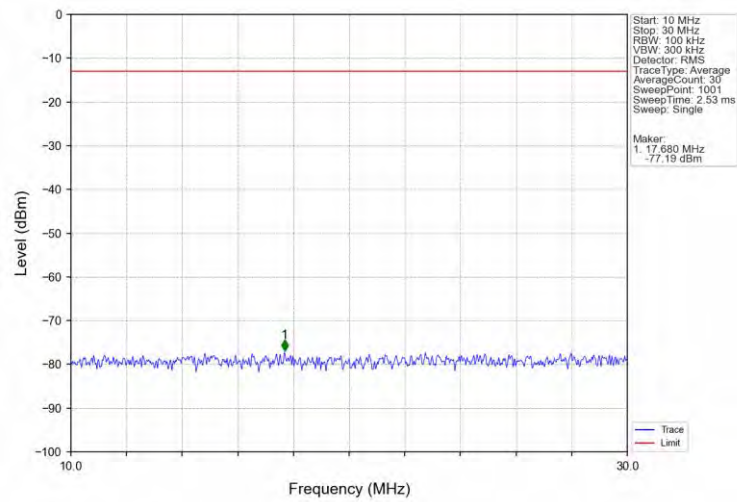
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



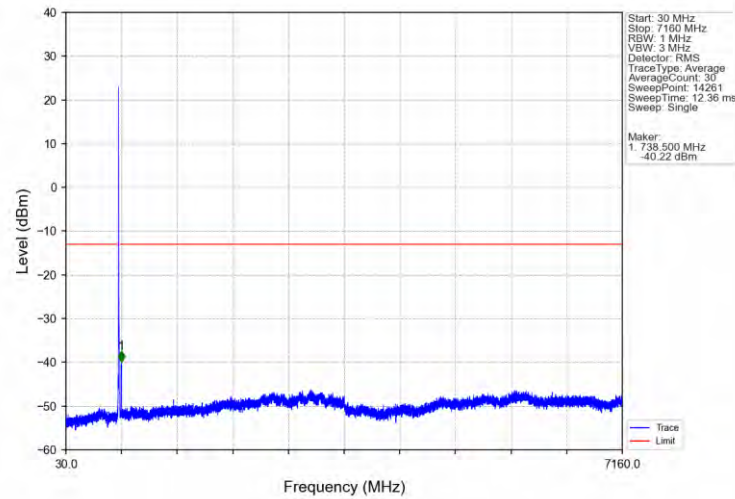
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



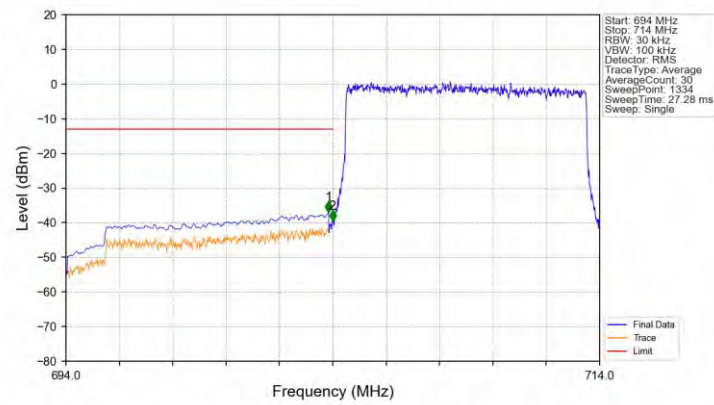
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

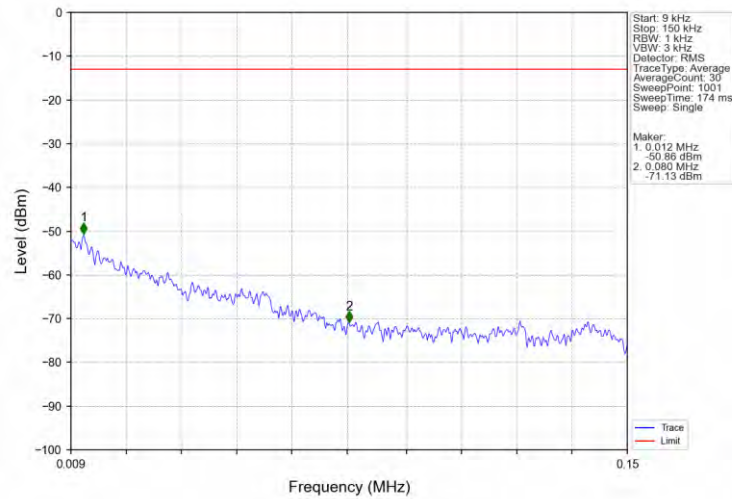


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

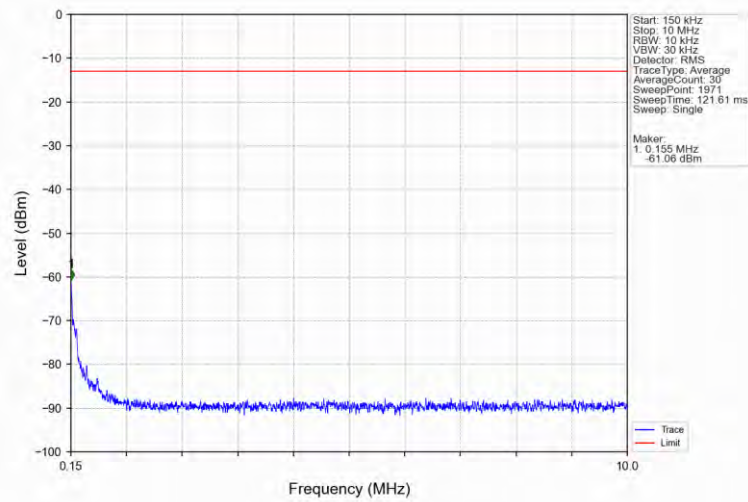


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-37.01	-13	Pass
703.9	704	0.03	/	2	703.992	-39.59	-13	Pass
704	714	0.03	/	/	/	/	/	/

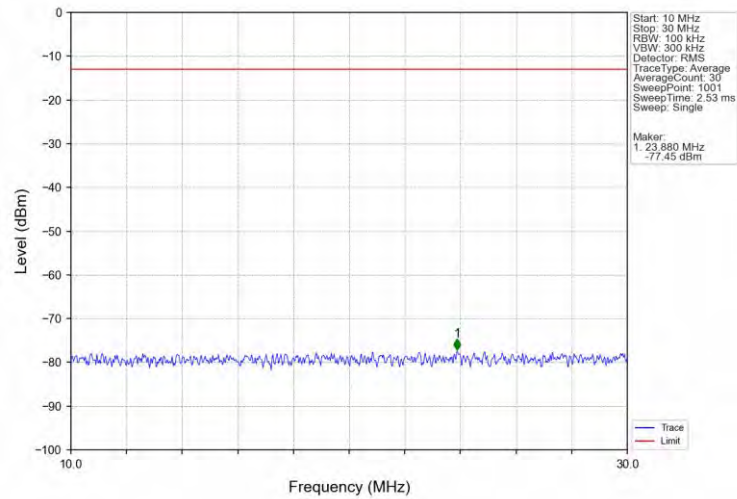
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



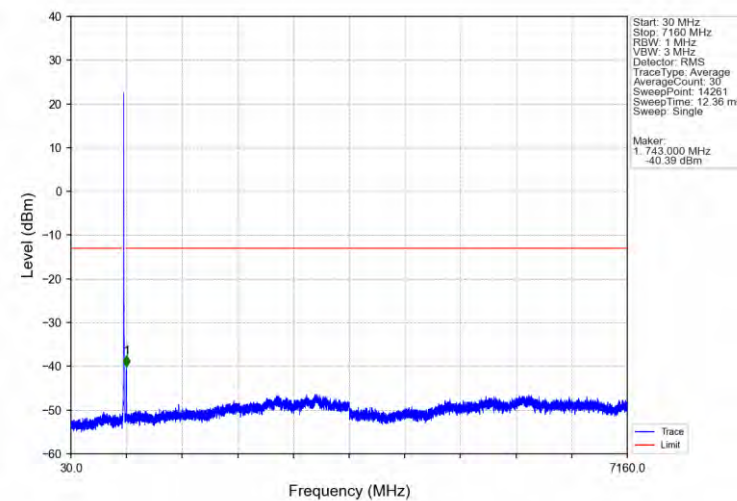
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



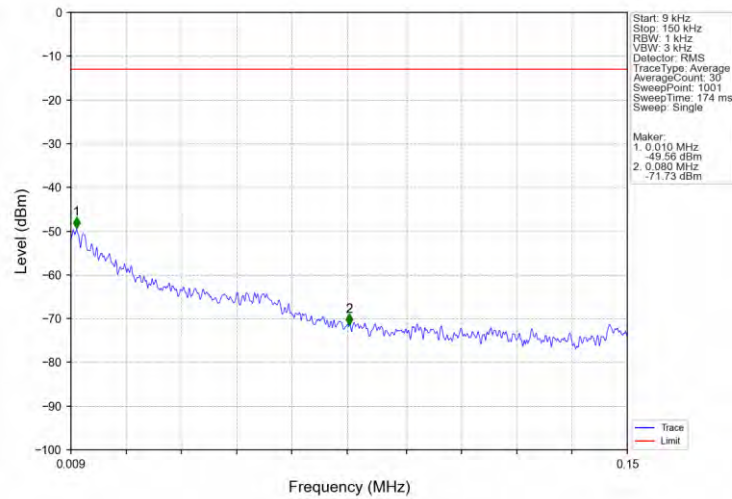
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



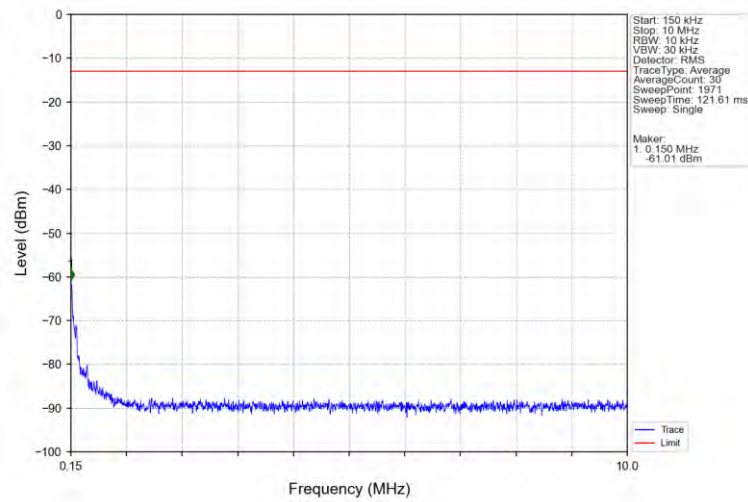
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



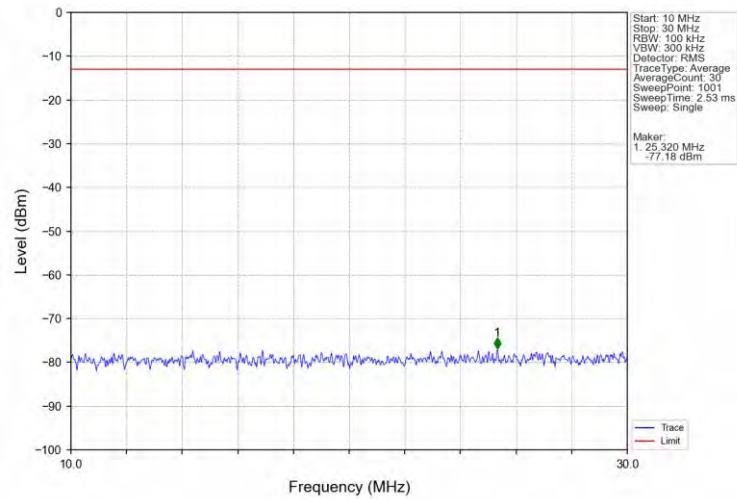
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



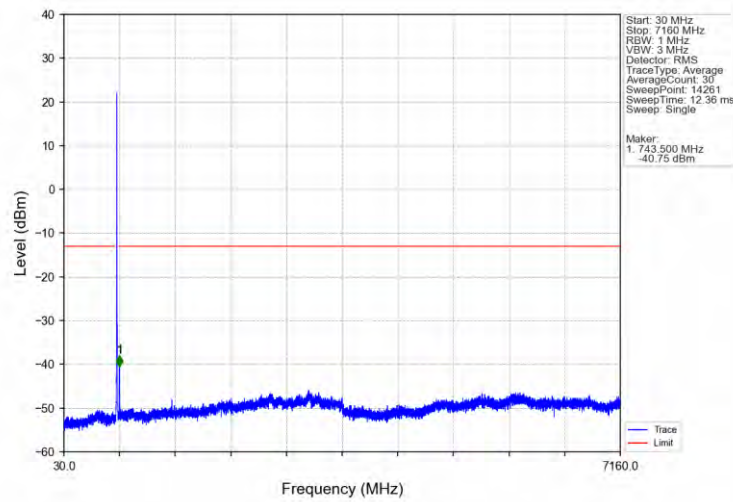
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



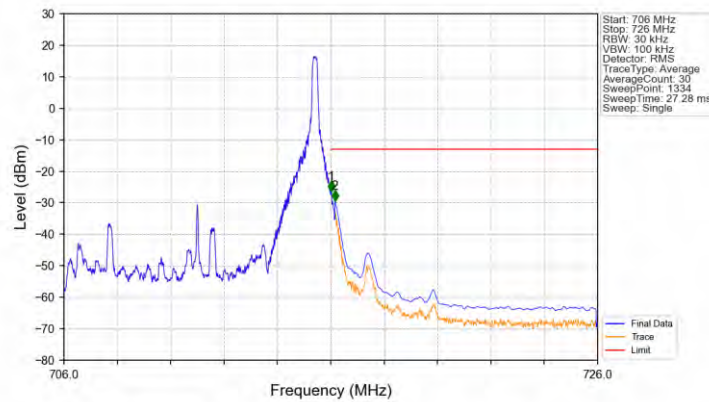
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

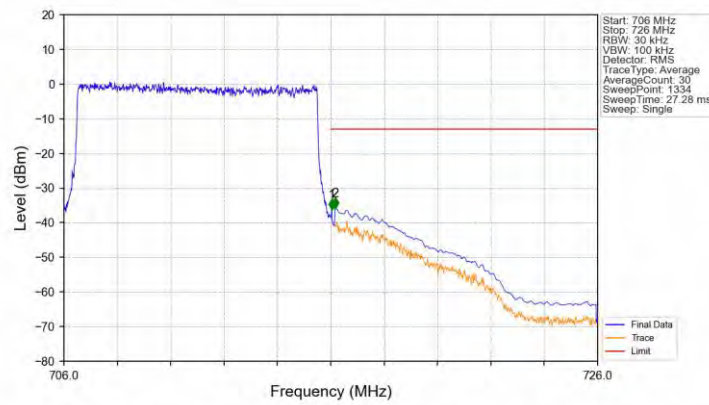


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



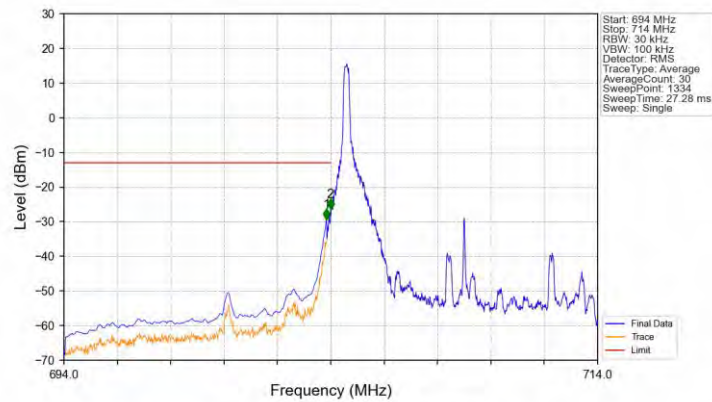
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-26.37	-13	Pass
716.1	726	0.1	CHP	2	716.158	-29.50	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



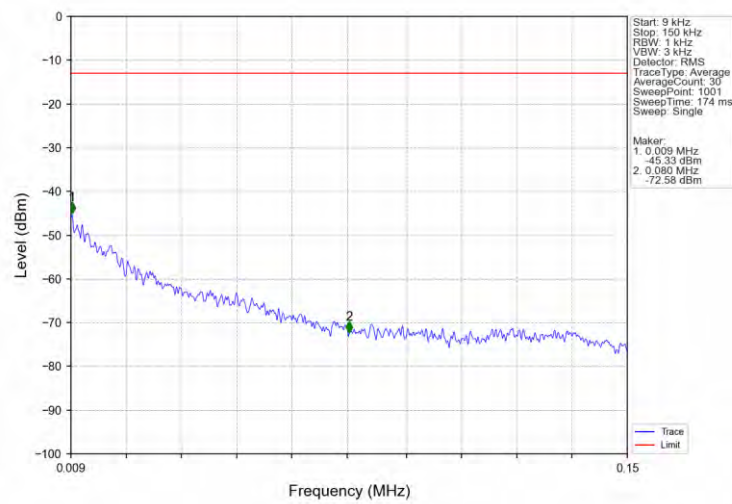
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-36.19	-13	Pass
716.1	726	0.1	CHP	2	716.173	-35.82	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

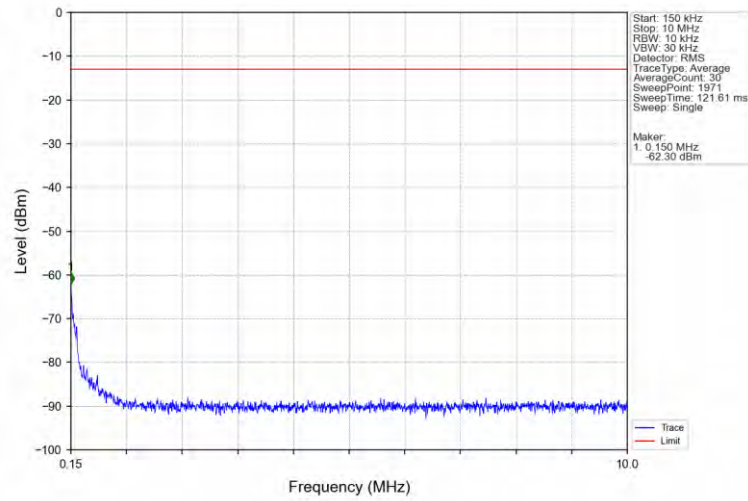


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-29.36	-13	Pass
703.9	704	0.03	/	2	703.992	-26.33	-13	Pass
704	714	0.03	/	/	/	/	/	/

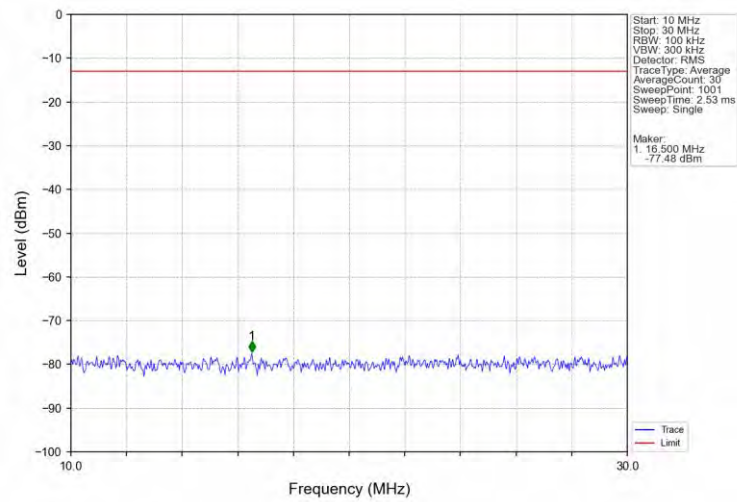
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



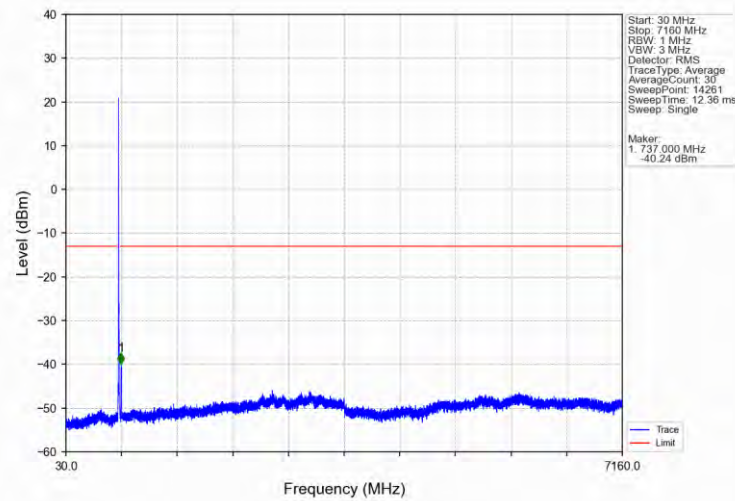
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



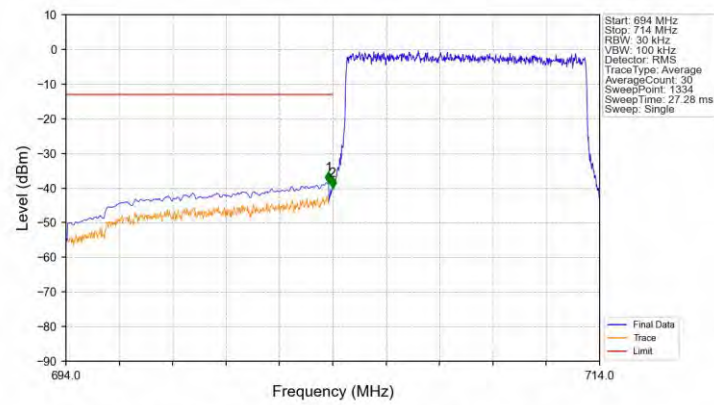
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

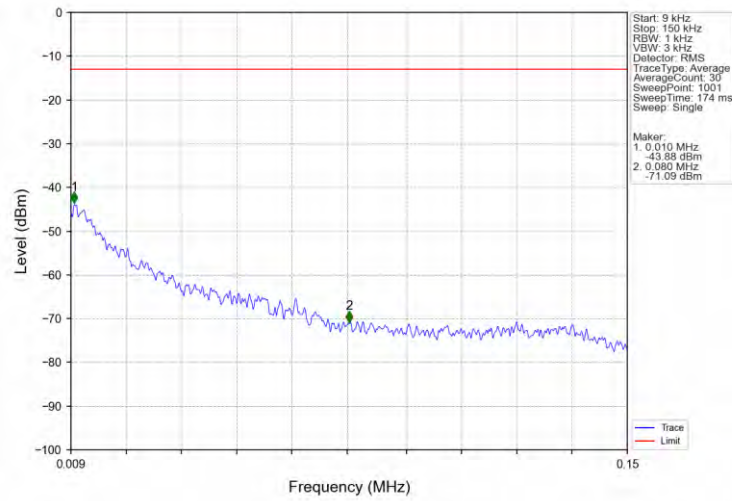


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

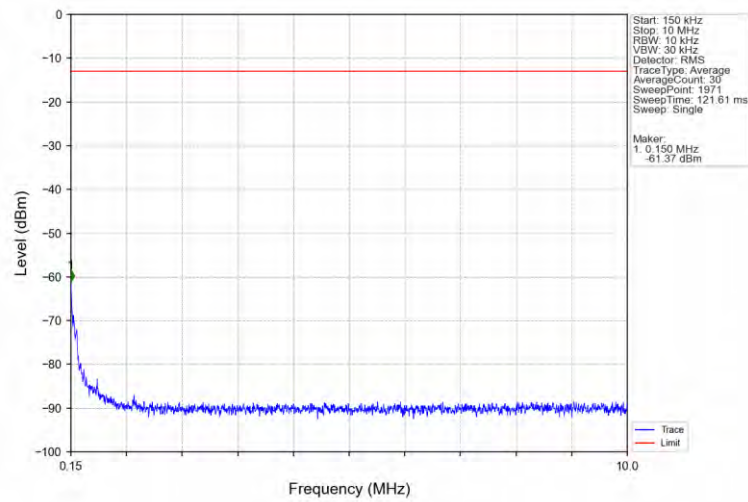


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-38.39	-13	Pass
703.9	704	0.03	/	2	703.992	-40.05	-13	Pass
704	714	0.03	/	/	/	/	/	/

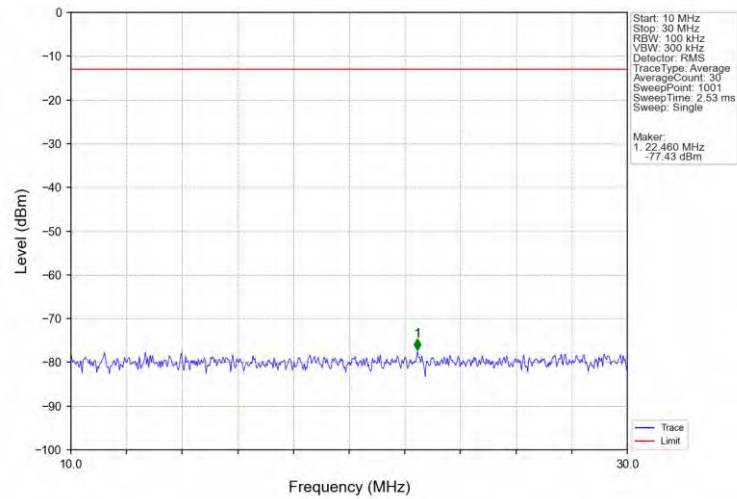
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



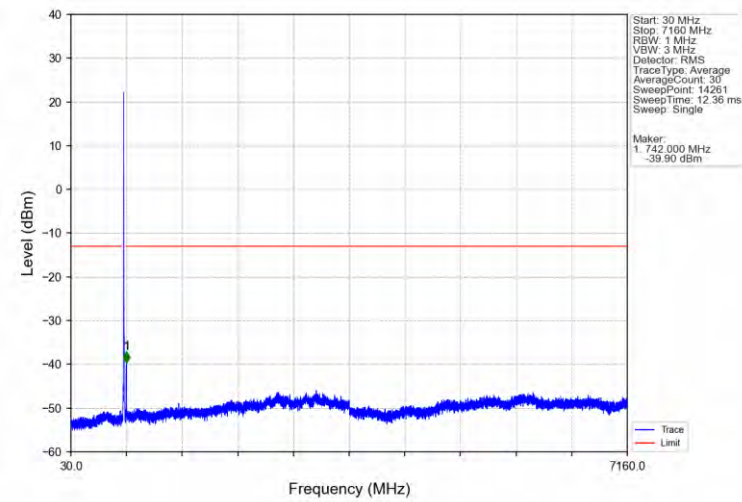
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



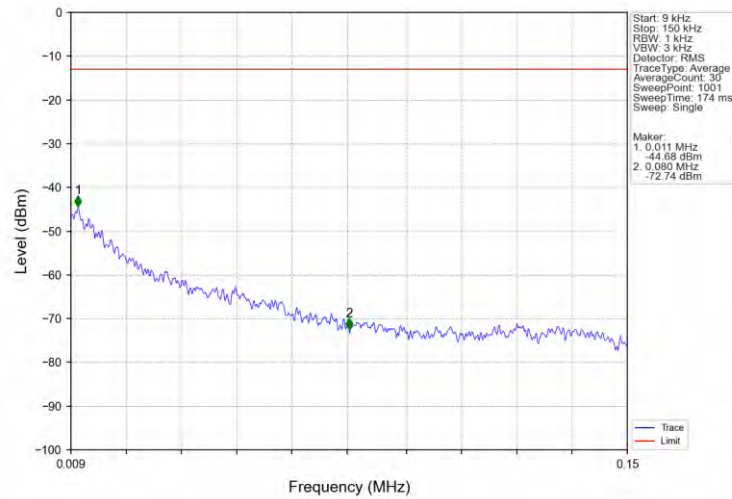
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



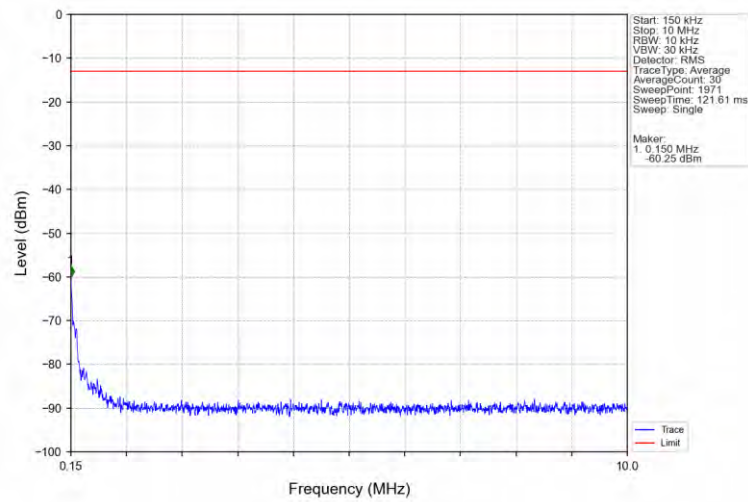
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



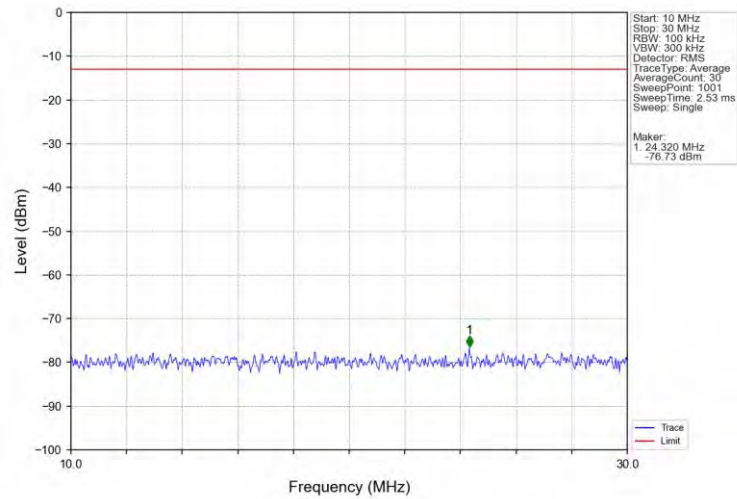
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



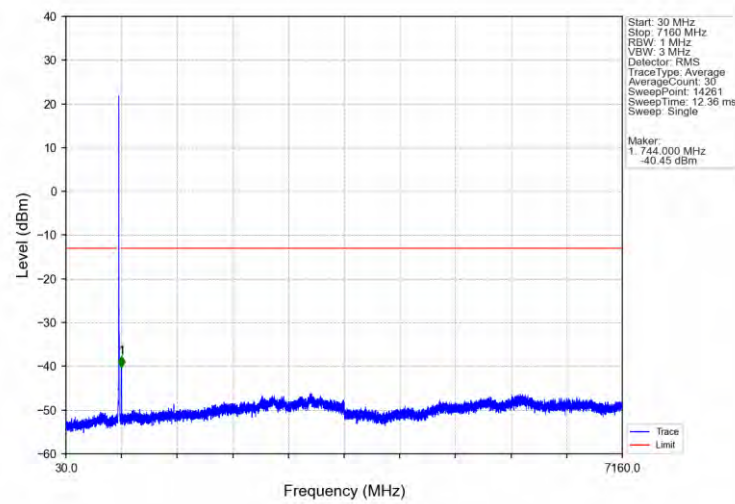
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



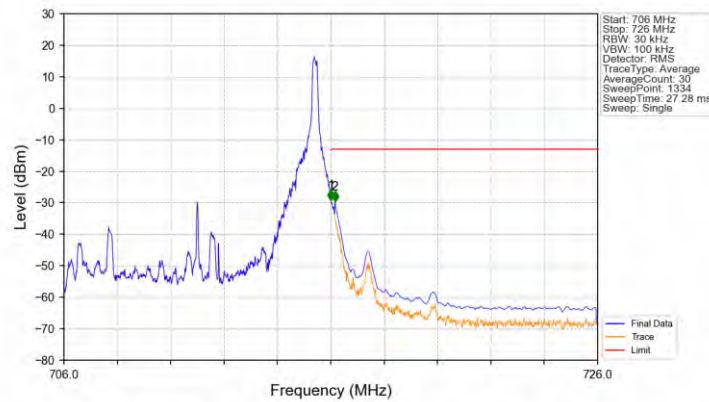
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

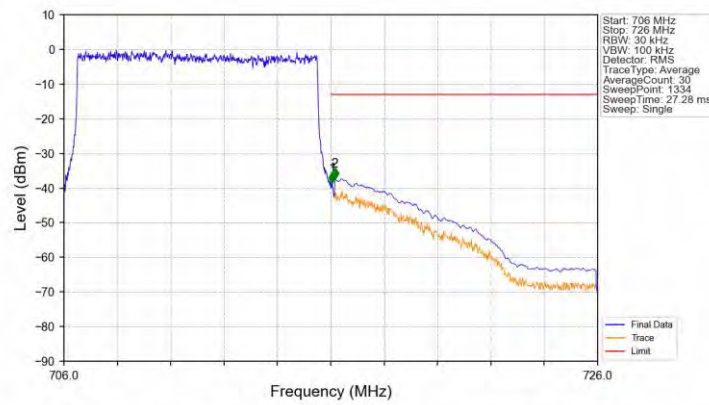


Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



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	-29.17	-13	Pass
716.1	726	0.1	CHP	2	716.158	-29.58	-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	716.053	-38.63	-13	Pass
716.1	726	0.1	CHP	2	716.158	-37.27	-13	Pass

7. Max Power

7.1 Test Result

7.1.1 Max Power_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	0.2477	0.0054	ppm	4M54G7D	27H	23.94
17	5	706.5	713.5	0.2070	0.0068	ppm	4M52W7D	27H	23.16
17	10	709	711	0.2404	0.0053	ppm	8M97G7D	27H	23.81
17	10	709	711	0.1837	0.0050	ppm	8M96W7D	27H	22.64

7.1.2 Max Power_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	0.1618	0.0054	ppm	4M54G7D	27H	22.09
17	5	706.5	713.5	0.1352	0.0068	ppm	4M52W7D	27H	21.31
17	10	709	711	0.1570	0.0053	ppm	8M97G7D	27H	21.96
17	10	709	711	0.1199	0.0050	ppm	8M96W7D	27H	20.79

***** End of Report *****