

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B17\_5MHz\_ERP

### 1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	22.39	-2.95	17.29	<=34.77	Pass		
			13	22.05	-2.95	16.95	<=34.77	Pass		
			24	21.92	-2.95	16.82	<=34.77	Pass		
		12	0	20.93	-2.95	15.83	<=34.77	Pass		
			6	20.95	-2.95	15.85	<=34.77	Pass		
			13	20.86	-2.95	15.76	<=34.77	Pass		
		25	0	20.88	-2.95	15.78	<=34.77	Pass		
		710	1	0	21.84	-2.95	16.74	<=34.77	Pass	
				13	21.95	-2.95	16.85	<=34.77	Pass	
	24			21.86	-2.95	16.76	<=34.77	Pass		
	12		0	20.89	-2.95	15.79	<=34.77	Pass		
			6	20.92	-2.95	15.82	<=34.77	Pass		
			13	20.86	-2.95	15.76	<=34.77	Pass		
	25		0	20.91	-2.95	15.81	<=34.77	Pass		
	713.5		1	0	21.84	-2.95	16.74	<=34.77	Pass	
				13	21.99	-2.95	16.89	<=34.77	Pass	
		24		21.86	-2.95	16.76	<=34.77	Pass		
		12	0	20.84	-2.95	15.74	<=34.77	Pass		
			6	20.92	-2.95	15.82	<=34.77	Pass		
			13	20.90	-2.95	15.80	<=34.77	Pass		
		25	0	20.90	-2.95	15.80	<=34.77	Pass		
		16QAM	706.5	1	0	20.92	-2.95	15.82	<=34.77	Pass
					13	21.07	-2.95	15.97	<=34.77	Pass
	24				21.00	-2.95	15.90	<=34.77	Pass	
12	0			19.98	-2.95	14.88	<=34.77	Pass		
	6			20.02	-2.95	14.92	<=34.77	Pass		
	13			19.91	-2.95	14.81	<=34.77	Pass		
25	0			19.98	-2.95	14.88	<=34.77	Pass		
710	1			0	21.04	-2.95	15.94	<=34.77	Pass	
				13	21.16	-2.95	16.06	<=34.77	Pass	
			24	21.07	-2.95	15.97	<=34.77	Pass		
	12		0	19.96	-2.95	14.86	<=34.77	Pass		
			6	20.03	-2.95	14.93	<=34.77	Pass		
			13	20.02	-2.95	14.92	<=34.77	Pass		
	25		0	19.92	-2.95	14.82	<=34.77	Pass		
	713.5		1	0	20.67	-2.95	15.57	<=34.77	Pass	
				13	20.80	-2.95	15.70	<=34.77	Pass	
24				20.65	-2.95	15.55	<=34.77	Pass		
12			0	19.87	-2.95	14.77	<=34.77	Pass		
			6	20.00	-2.95	14.90	<=34.77	Pass		
			13	19.89	-2.95	14.79	<=34.77	Pass		
25			0	19.96	-2.95	14.86	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B17\_10MHz\_ERP

## 1.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	709	1	0	21.93	-2.95	16.83	<=34.77	Pass		
			25	22.13	-2.95	17.03	<=34.77	Pass		
			49	21.98	-2.95	16.88	<=34.77	Pass		
		25	0	21.01	-2.95	15.91	<=34.77	Pass		
			13	21.02	-2.95	15.92	<=34.77	Pass		
			25	21.02	-2.95	15.92	<=34.77	Pass		
		50	0	21.04	-2.95	15.94	<=34.77	Pass		
		710	1	0	21.86	-2.95	16.76	<=34.77	Pass	
				25	22.11	-2.95	17.01	<=34.77	Pass	
	49			21.93	-2.95	16.83	<=34.77	Pass		
	25		0	21.03	-2.95	15.93	<=34.77	Pass		
			13	20.97	-2.95	15.87	<=34.77	Pass		
			25	21.03	-2.95	15.93	<=34.77	Pass		
	50		0	21.01	-2.95	15.91	<=34.77	Pass		
	711		1	0	21.87	-2.95	16.77	<=34.77	Pass	
				25	22.11	-2.95	17.01	<=34.77	Pass	
		49		21.90	-2.95	16.80	<=34.77	Pass		
		25	0	21.04	-2.95	15.94	<=34.77	Pass		
			13	20.98	-2.95	15.88	<=34.77	Pass		
			25	21.02	-2.95	15.92	<=34.77	Pass		
		50	0	20.99	-2.95	15.89	<=34.77	Pass		
		16QAM	709	1	0	20.84	-2.95	15.74	<=34.77	Pass
					25	21.16	-2.95	16.06	<=34.77	Pass
	49				20.91	-2.95	15.81	<=34.77	Pass	
25	0			20.13	-2.95	15.03	<=34.77	Pass		
	13			20.13	-2.95	15.03	<=34.77	Pass		
	25			20.15	-2.95	15.05	<=34.77	Pass		
50	0			20.06	-2.95	14.96	<=34.77	Pass		
710	1			0	20.98	-2.95	15.88	<=34.77	Pass	
				25	21.23	-2.95	16.13	<=34.77	Pass	
			49	21.02	-2.95	15.92	<=34.77	Pass		
	25		0	20.08	-2.95	14.98	<=34.77	Pass		
			13	20.06	-2.95	14.96	<=34.77	Pass		
			25	20.08	-2.95	14.98	<=34.77	Pass		
	50		0	20.06	-2.95	14.96	<=34.77	Pass		
	711		1	0	21.40	-2.95	16.30	<=34.77	Pass	
				25	21.58	-2.95	16.48	<=34.77	Pass	
49				21.34	-2.95	16.24	<=34.77	Pass		
25			0	20.08	-2.95	14.98	<=34.77	Pass		
			13	20.12	-2.95	15.02	<=34.77	Pass		
			25	20.08	-2.95	14.98	<=34.77	Pass		
50			0	20.08	-2.95	14.98	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 B17\_5MHz

#### 2.1.1 Test Result

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	-5.436	-0.0077	-2.5 to 2.5	Pass
					3.85	-7.682	-0.0109	-2.5 to 2.5	Pass
					4.43	-8.612	-0.0122	-2.5 to 2.5	Pass
				-30	3.85	-9.298	-0.0132	-2.5 to 2.5	Pass
				-20	3.85	-9.885	-0.0140	-2.5 to 2.5	Pass
				-10	3.85	-7.610	-0.0108	-2.5 to 2.5	Pass
				0	3.85	-7.896	-0.0112	-2.5 to 2.5	Pass
				10	3.85	-6.509	-0.0092	-2.5 to 2.5	Pass
				30	3.85	-5.021	-0.0071	-2.5 to 2.5	Pass
				40	3.85	-7.939	-0.0112	-2.5 to 2.5	Pass
	50	3.85	-7.510	-0.0106	-2.5 to 2.5	Pass			
	710	25	0	20	3.27	-5.894	-0.0083	-2.5 to 2.5	Pass
					3.85	-4.849	-0.0068	-2.5 to 2.5	Pass
					4.43	-5.794	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-7.710	-0.0109	-2.5 to 2.5	Pass
				-20	3.85	-8.326	-0.0117	-2.5 to 2.5	Pass
				-10	3.85	-6.795	-0.0096	-2.5 to 2.5	Pass
				0	3.85	-6.981	-0.0098	-2.5 to 2.5	Pass
				10	3.85	7.925	0.0112	-2.5 to 2.5	Pass
				30	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-4.892	-0.0069	-2.5 to 2.5	Pass
	50	3.85	-5.994	-0.0084	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.27	-2.103	-0.0029	-2.5 to 2.5	Pass
					3.85	-6.423	-0.0090	-2.5 to 2.5	Pass
					4.43	-7.167	-0.0100	-2.5 to 2.5	Pass
				-30	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-4.635	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	-4.005	-0.0056	-2.5 to 2.5	Pass
				0	3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
				10	3.85	-5.307	-0.0074	-2.5 to 2.5	Pass
30				3.85	-7.324	-0.0103	-2.5 to 2.5	Pass	
40				3.85	-4.220	-0.0059	-2.5 to 2.5	Pass	
50	3.85	-5.693	-0.0080	-2.5 to 2.5	Pass				
16QAM	706.5	25	0	20	3.27	-4.821	-0.0068	-2.5 to 2.5	Pass
					3.85	-5.865	-0.0083	-2.5 to 2.5	Pass
					4.43	-5.622	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-5.679	-0.0080	-2.5 to 2.5	Pass
				-20	3.85	-6.952	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-2.403	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-6.180	-0.0087	-2.5 to 2.5	Pass
				10	3.85	5.307	0.0075	-2.5 to 2.5	Pass
				30	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
	50	3.85	-6.208	-0.0088	-2.5 to 2.5	Pass			
	710	25	0	20	3.27	-5.980	-0.0084	-2.5 to 2.5	Pass
					3.85	-3.476	-0.0049	-2.5 to 2.5	Pass
					4.43	-3.862	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-10.743	-0.0151	-2.5 to 2.5	Pass
				-20	3.85	-5.980	-0.0084	-2.5 to 2.5	Pass
				-10	3.85	-4.978	-0.0070	-2.5 to 2.5	Pass
				0	3.85	3.562	0.0050	-2.5 to 2.5	Pass
				10	3.85	-9.499	-0.0134	-2.5 to 2.5	Pass
				30	3.85	-7.639	-0.0108	-2.5 to 2.5	Pass
40				3.85	-6.495	-0.0091	-2.5 to 2.5	Pass	

				50	3.85	-8.454	-0.0119	-2.5 to 2.5	Pass
				20	3.27	-10.300	-0.0144	-2.5 to 2.5	Pass
					3.85	-7.181	-0.0101	-2.5 to 2.5	Pass
				20	4.43	-6.108	-0.0086	-2.5 to 2.5	Pass
					-30	3.85	-8.311	-0.0116	-2.5 to 2.5
				-20	3.85	1.931	0.0027	-2.5 to 2.5	Pass
				-10	3.85	-4.191	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-6.394	-0.0090	-2.5 to 2.5	Pass
				10	3.85	-9.470	-0.0133	-2.5 to 2.5	Pass
				30	3.85	-2.689	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-6.881	-0.0096	-2.5 to 2.5	Pass
				50	3.85	-7.267	-0.0102	-2.5 to 2.5	Pass

## 2.2 B17\_10MHz

### 2.2.1 Test Result

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	-7.725	-0.0109	-2.5 to 2.5	Pass
					3.85	-7.110	-0.0100	-2.5 to 2.5	Pass
					4.43	-5.994	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-6.795	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-5.322	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-4.263	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-5.450	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-4.077	-0.0058	-2.5 to 2.5	Pass
				30	3.85	-7.124	-0.0100	-2.5 to 2.5	Pass
	40	3.85	-5.736	-0.0081	-2.5 to 2.5	Pass			
	50	3.85	-7.253	-0.0102	-2.5 to 2.5	Pass			
	710	50	0	20	3.27	-5.808	-0.0082	-2.5 to 2.5	Pass
					3.85	-5.651	-0.0080	-2.5 to 2.5	Pass
					4.43	-8.941	-0.0126	-2.5 to 2.5	Pass
				-30	3.85	-3.762	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-10.414	-0.0147	-2.5 to 2.5	Pass
				-10	3.85	-6.738	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-5.636	-0.0079	-2.5 to 2.5	Pass
				10	3.85	-6.366	-0.0090	-2.5 to 2.5	Pass
				30	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass
	40	3.85	-8.798	-0.0124	-2.5 to 2.5	Pass			
	50	3.85	-2.003	-0.0028	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	-5.808	-0.0082	-2.5 to 2.5	Pass
					3.85	-3.190	-0.0045	-2.5 to 2.5	Pass
					4.43	-4.420	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-5.865	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-6.423	-0.0090	-2.5 to 2.5	Pass
-10				3.85	-7.553	-0.0106	-2.5 to 2.5	Pass	
0				3.85	-7.496	-0.0105	-2.5 to 2.5	Pass	
10				3.85	-6.752	-0.0095	-2.5 to 2.5	Pass	
30				3.85	-6.752	-0.0095	-2.5 to 2.5	Pass	
40	3.85	-5.665	-0.0080	-2.5 to 2.5	Pass				
50	3.85	-4.935	-0.0069	-2.5 to 2.5	Pass				
16QAM	709	50	0	20	3.27	-5.722	-0.0081	-2.5 to 2.5	Pass
					3.85	-6.266	-0.0088	-2.5 to 2.5	Pass

					4.43	-5.550	-0.0078	-2.5 to 2.5	Pass			
				-30	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass			
				-20	3.85	-8.454	-0.0119	-2.5 to 2.5	Pass			
				-10	3.85	-5.136	-0.0072	-2.5 to 2.5	Pass			
				0	3.85	-7.453	-0.0105	-2.5 to 2.5	Pass			
				10	3.85	-5.693	-0.0080	-2.5 to 2.5	Pass			
				30	3.85	-10.128	-0.0143	-2.5 to 2.5	Pass			
				40	3.85	-3.333	-0.0047	-2.5 to 2.5	Pass			
				50	3.85	-6.309	-0.0089	-2.5 to 2.5	Pass			
	710	50	0	20	3.27	-5.579	-0.0079	-2.5 to 2.5	Pass			
								3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
								4.43	-6.223	-0.0088	-2.5 to 2.5	Pass
							-30	3.85	-5.121	-0.0072	-2.5 to 2.5	Pass
							-20	3.85	-7.110	-0.0100	-2.5 to 2.5	Pass
							-10	3.85	-5.407	-0.0076	-2.5 to 2.5	Pass
							0	3.85	-6.466	-0.0091	-2.5 to 2.5	Pass
							10	3.85	-6.251	-0.0088	-2.5 to 2.5	Pass
							30	3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
							40	3.85	-7.539	-0.0106	-2.5 to 2.5	Pass
				50	3.85	-5.722	-0.0081	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	-3.290	-0.0046	-2.5 to 2.5	Pass			
								3.85	-5.579	-0.0078	-2.5 to 2.5	Pass
								4.43	-8.912	-0.0125	-2.5 to 2.5	Pass
							-30	3.85	-4.320	-0.0061	-2.5 to 2.5	Pass
							-20	3.85	-10.986	-0.0155	-2.5 to 2.5	Pass
							-10	3.85	-3.390	-0.0048	-2.5 to 2.5	Pass
							0	3.85	-8.054	-0.0113	-2.5 to 2.5	Pass
							10	3.85	-2.074	-0.0029	-2.5 to 2.5	Pass
							30	3.85	-8.683	-0.0122	-2.5 to 2.5	Pass
							40	3.85	-3.791	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-4.778	-0.0067	-2.5 to 2.5	Pass			

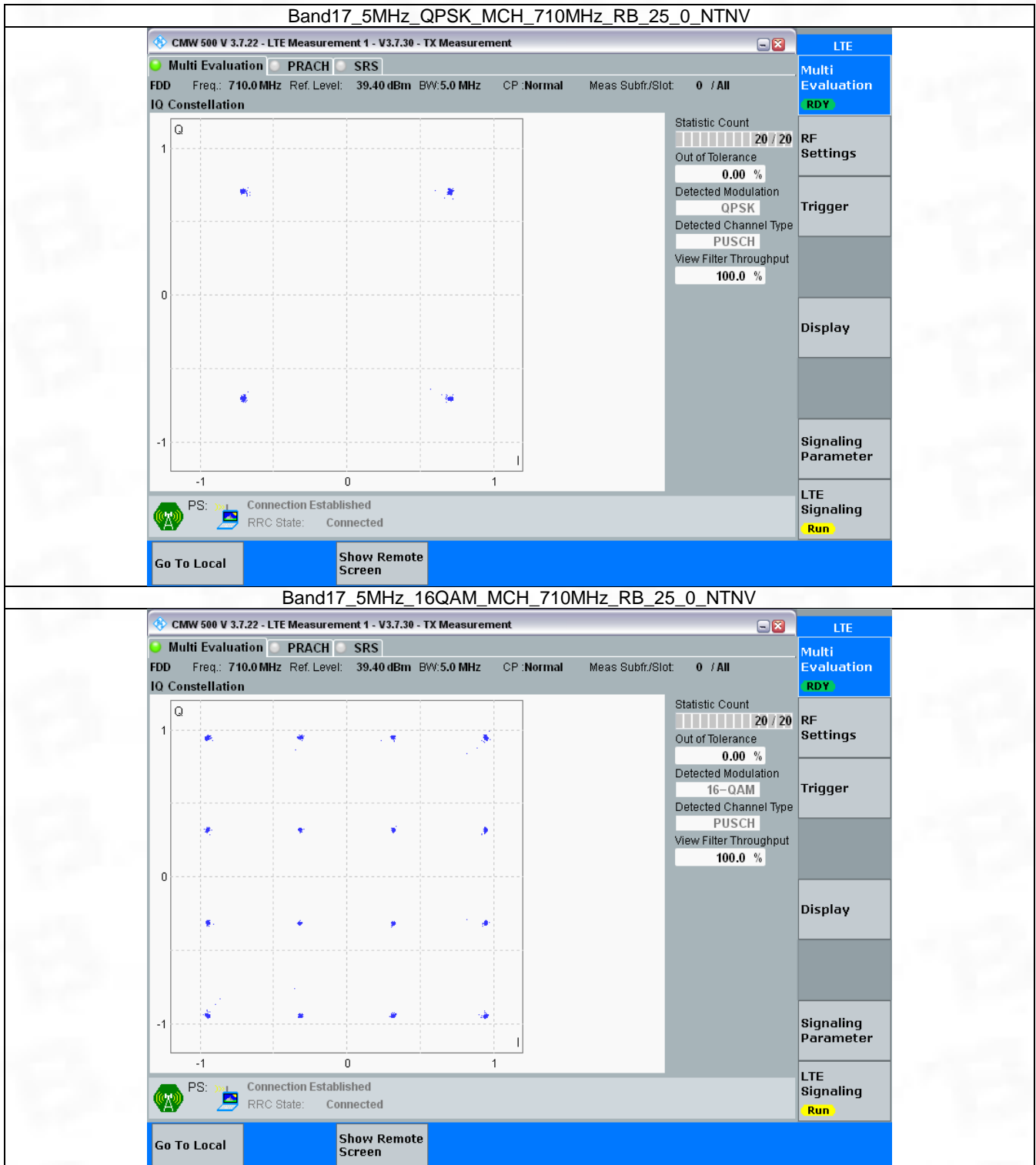
### 3. Modulation Characteristics

#### 3.1 B17\_5MHz

##### 3.1.1 Test Result

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 Test Graph

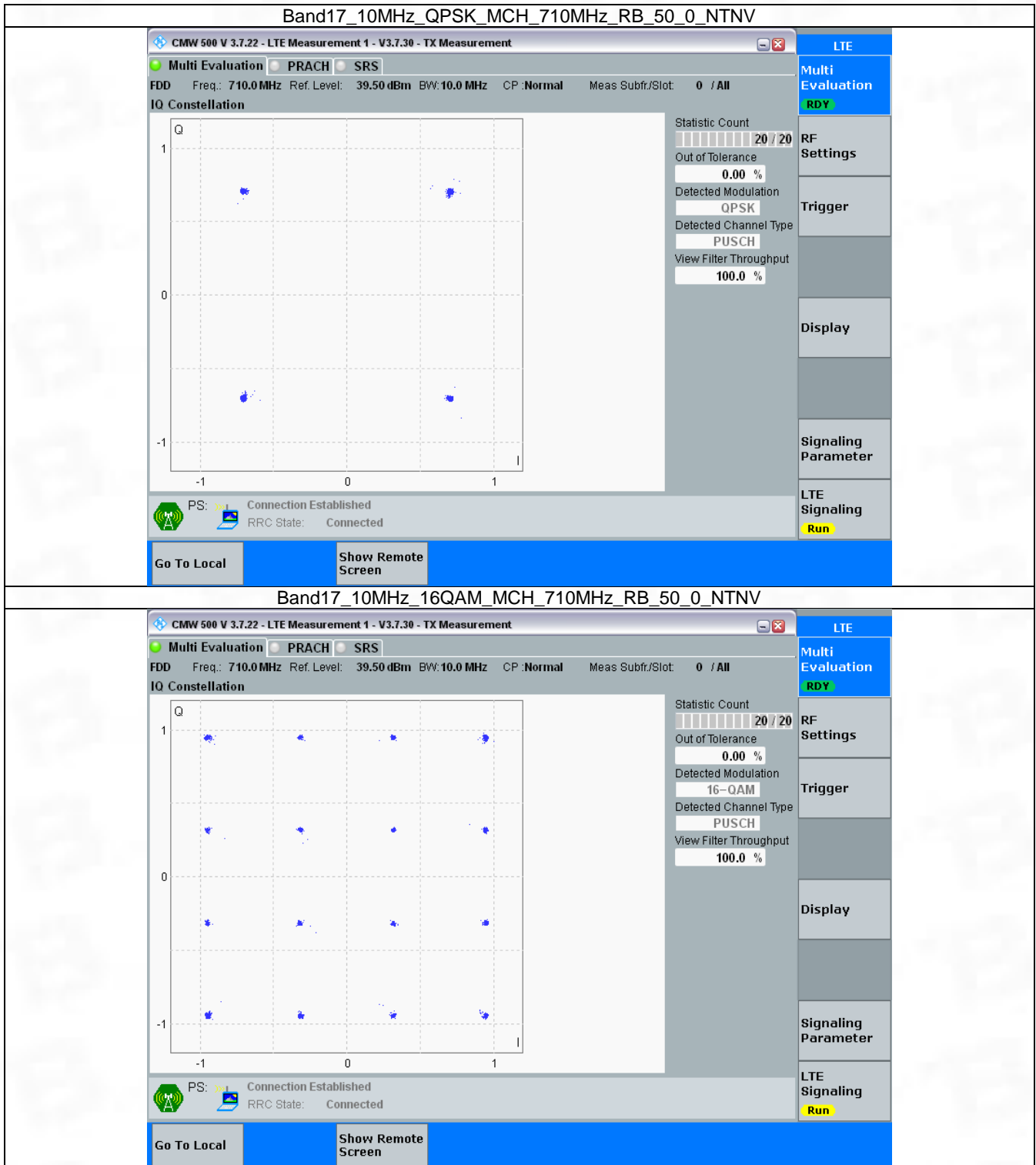


## 3.2 B17\_10MHz

### 3.2.1 Test Result

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

### 3.2.2 Test Graph





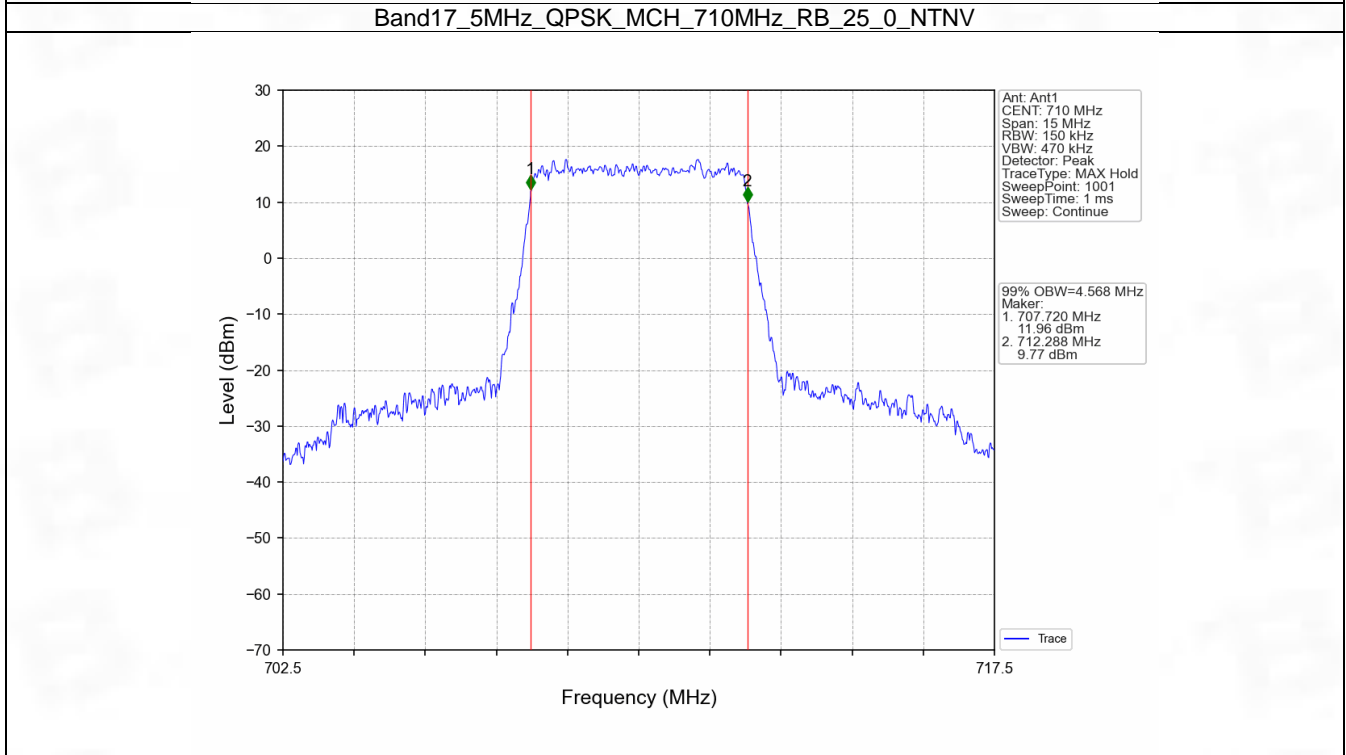
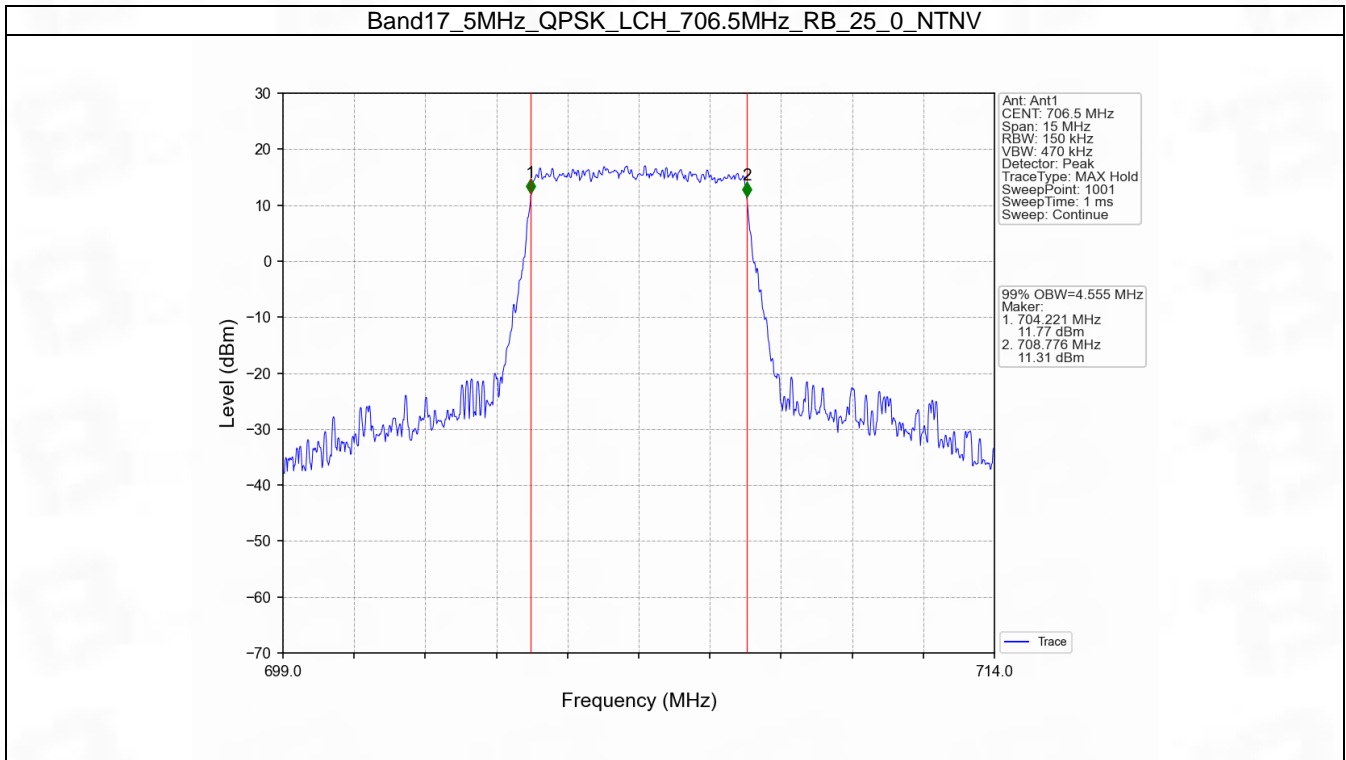
## 4. 99% & 26dB Bandwidth

### 4.1 Band17\_OBW

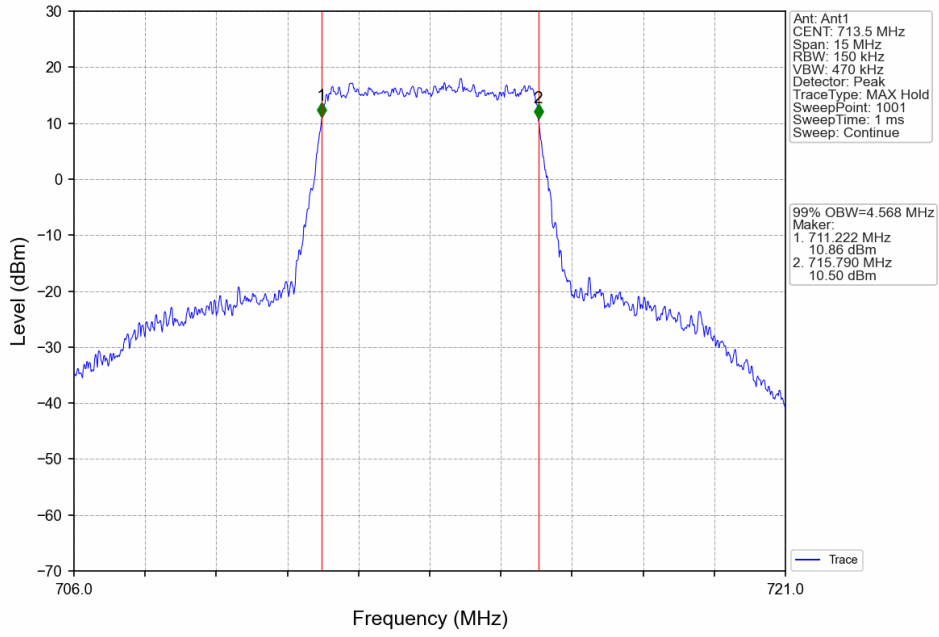
#### 4.1.1 Test Result

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	4.555	/	Pass
		710	25	0	4.568	/	Pass
		713.5	25	0	4.568	/	Pass
	16QAM	706.5	25	0	4.583	/	Pass
		710	25	0	4.548	/	Pass
		713.5	25	0	4.607	/	Pass
10	QPSK	709	50	0	9.099	/	Pass
		710	50	0	9.063	/	Pass
		711	50	0	9.110	/	Pass
	16QAM	709	50	0	9.071	/	Pass
		710	50	0	9.052	/	Pass
		711	50	0	9.081	/	Pass

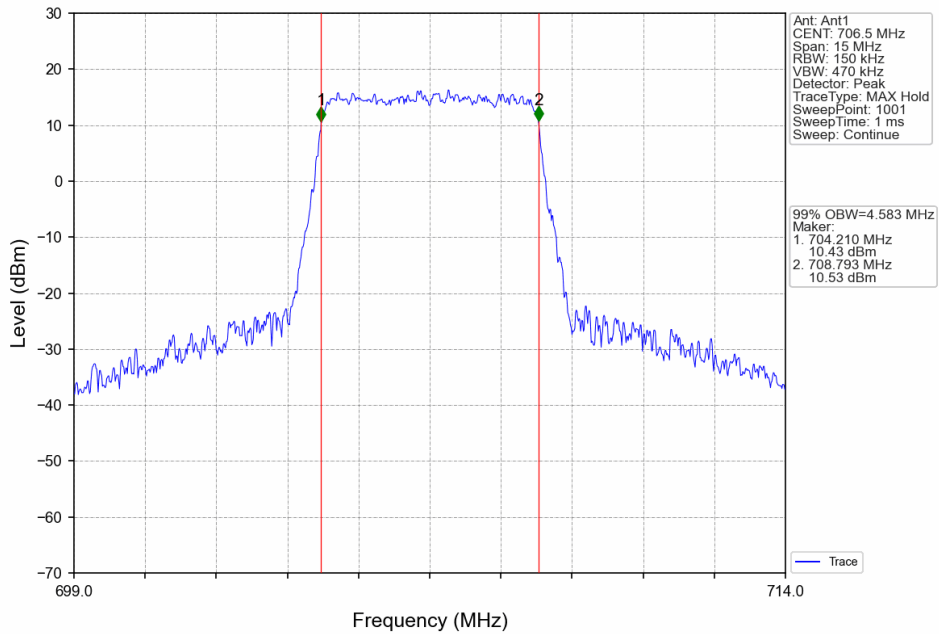
### 4.1.2 Test Graph



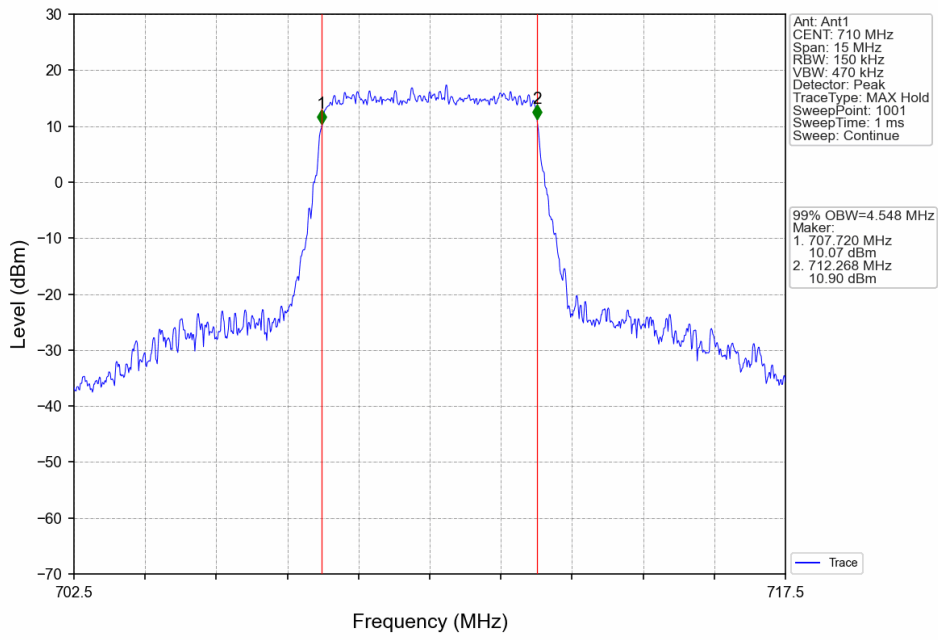
Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



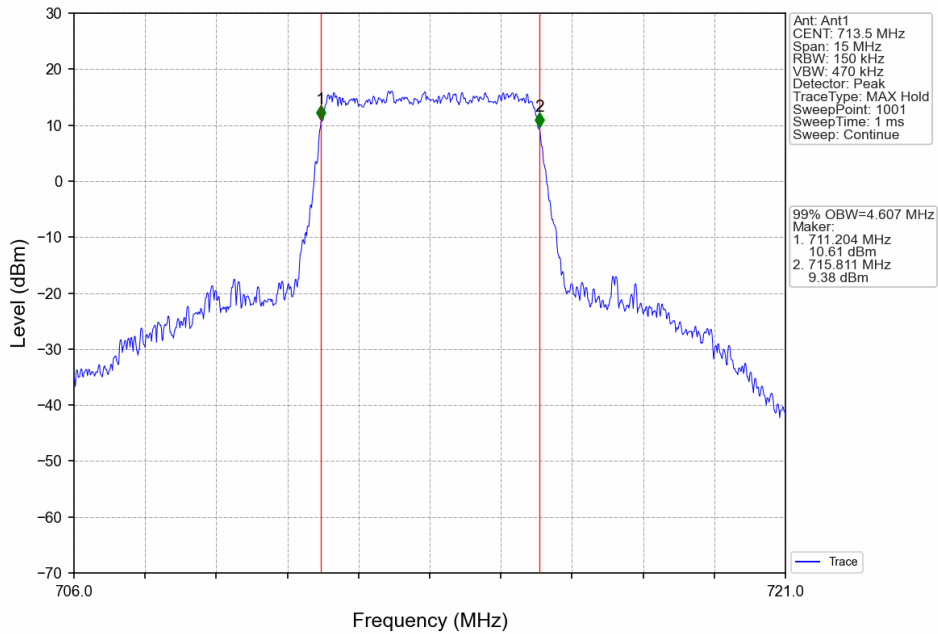
Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



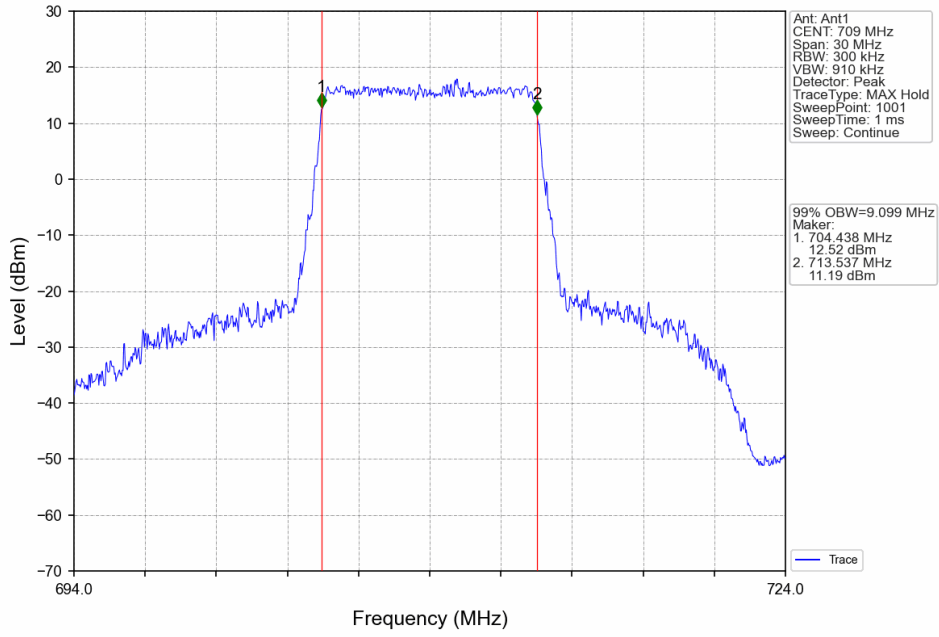
Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



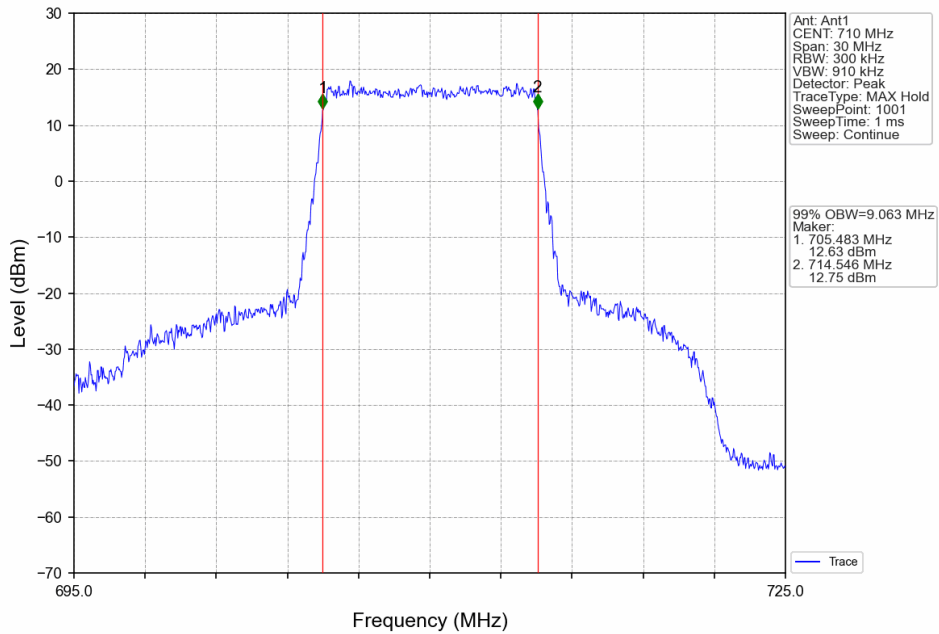
Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



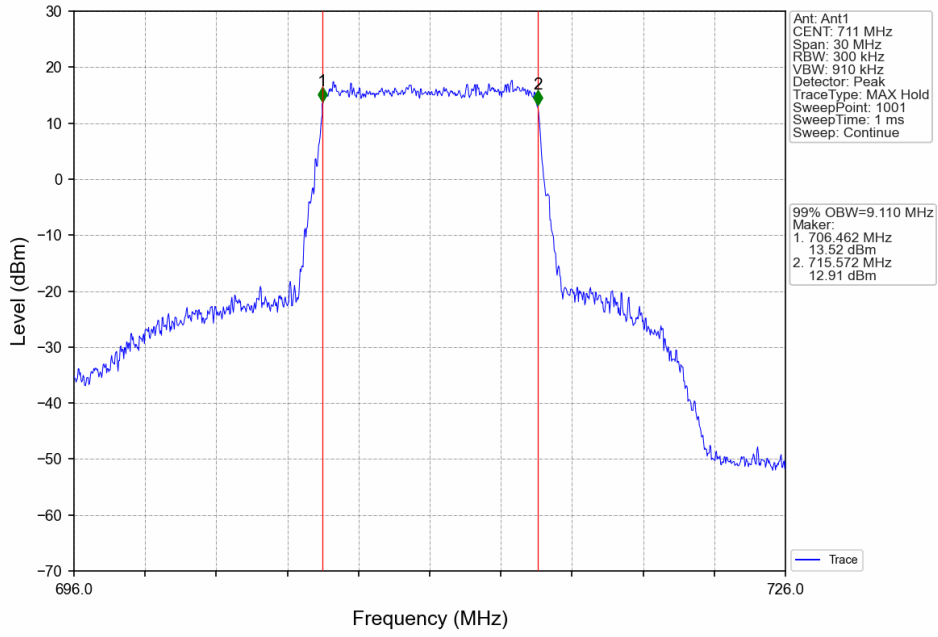
Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV



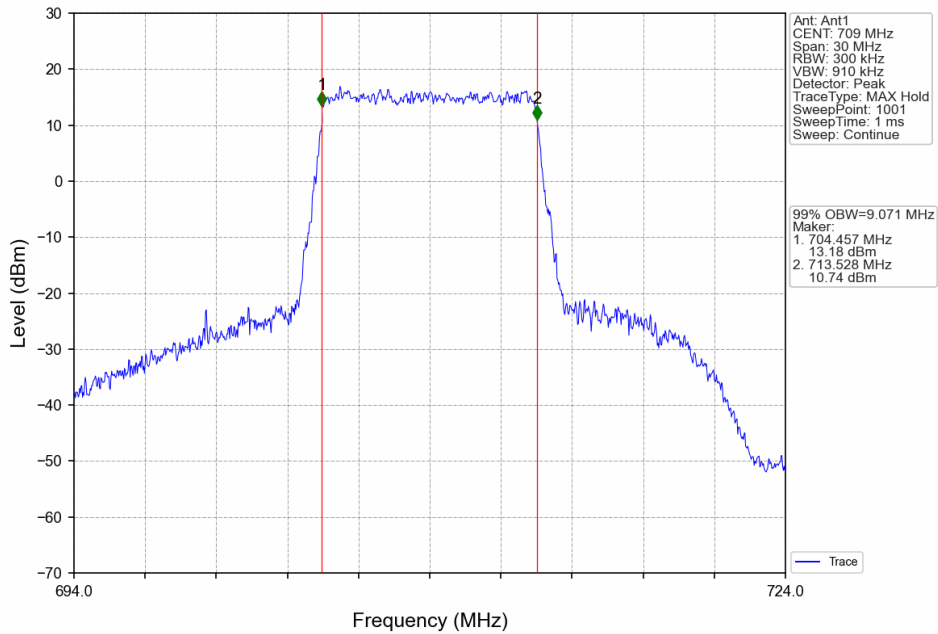
Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_50\_0\_NTNV



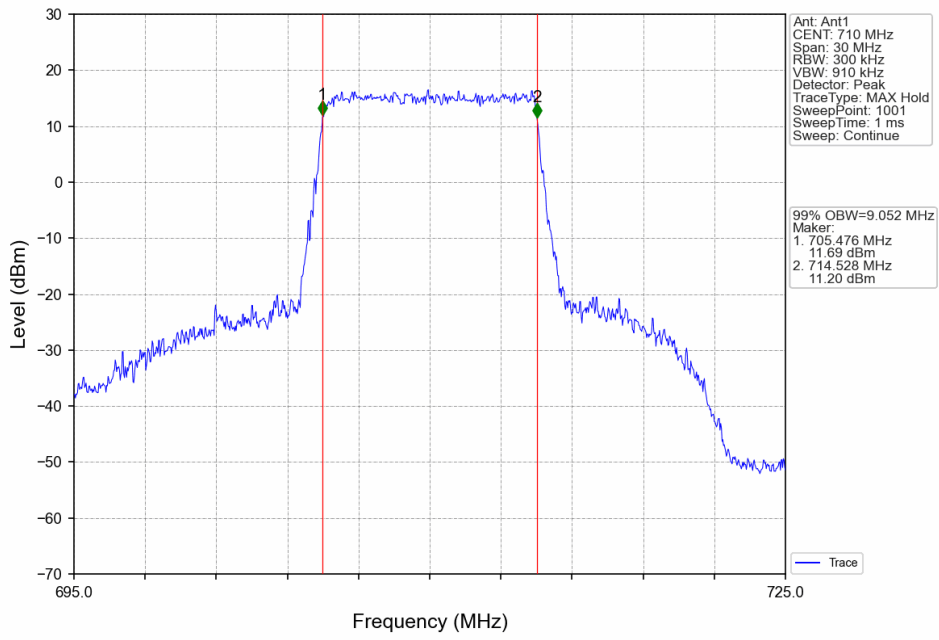
Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



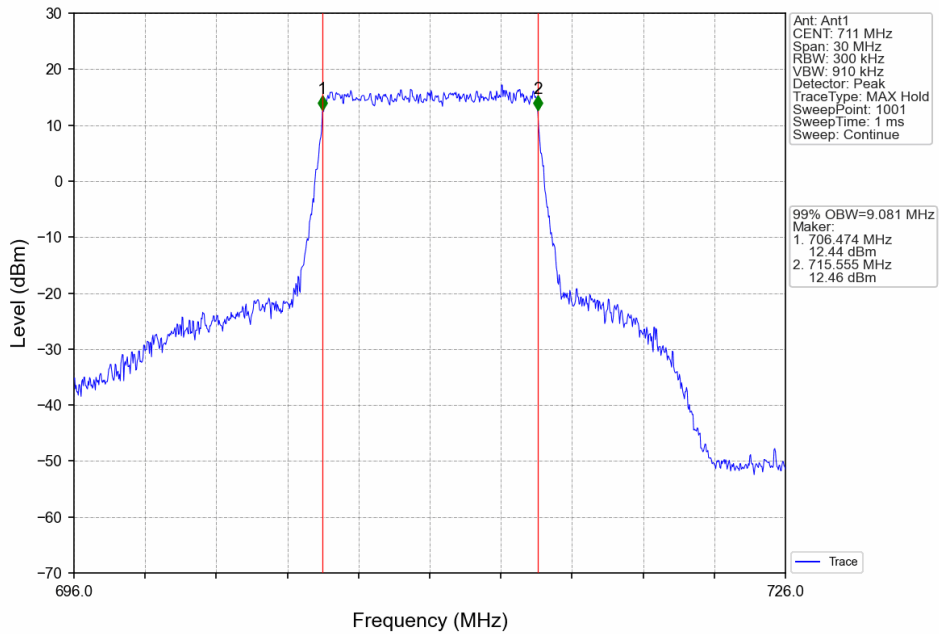
Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



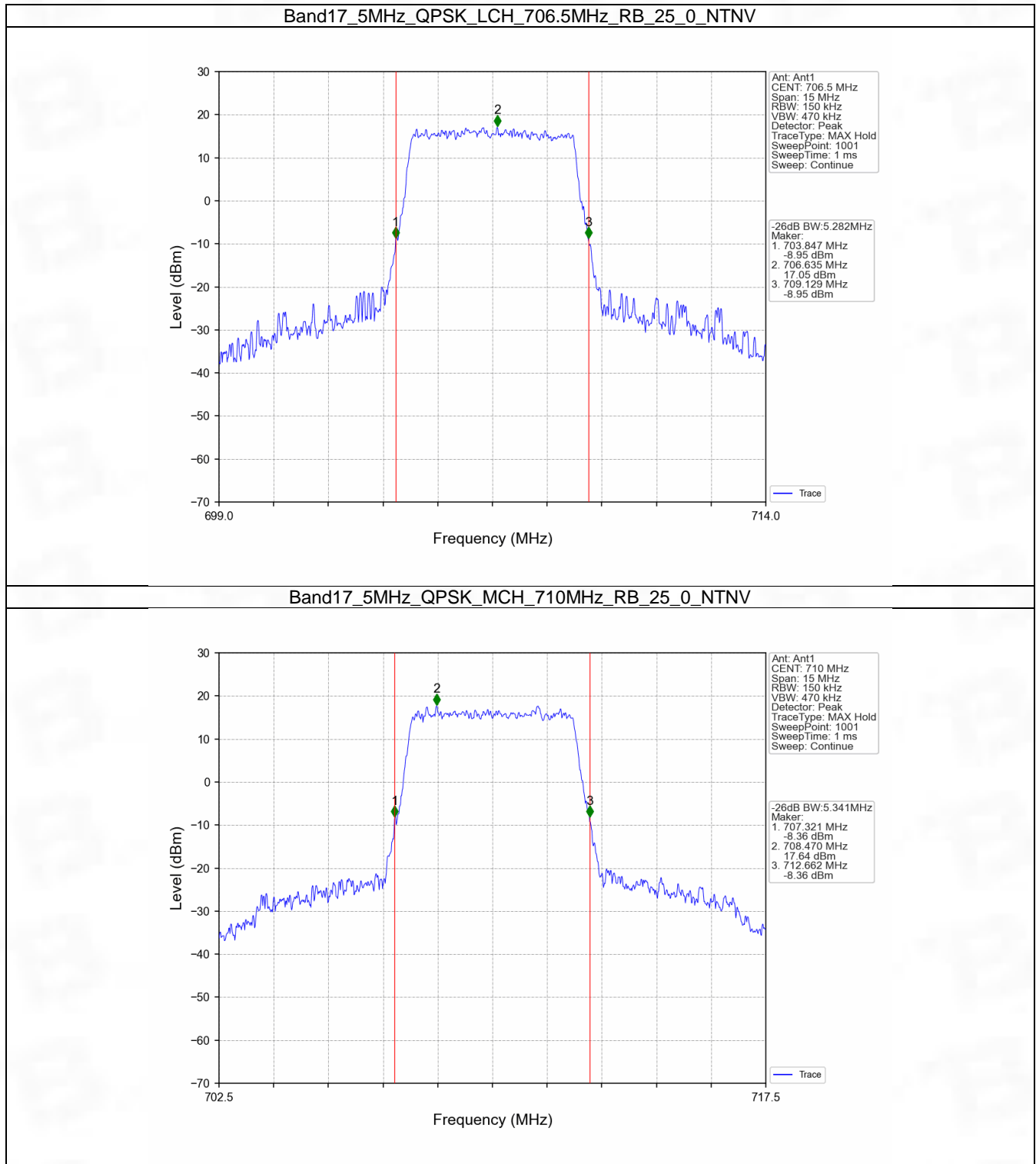
## 4.2 Band17\_XDB

### 4.2.1 Test Result

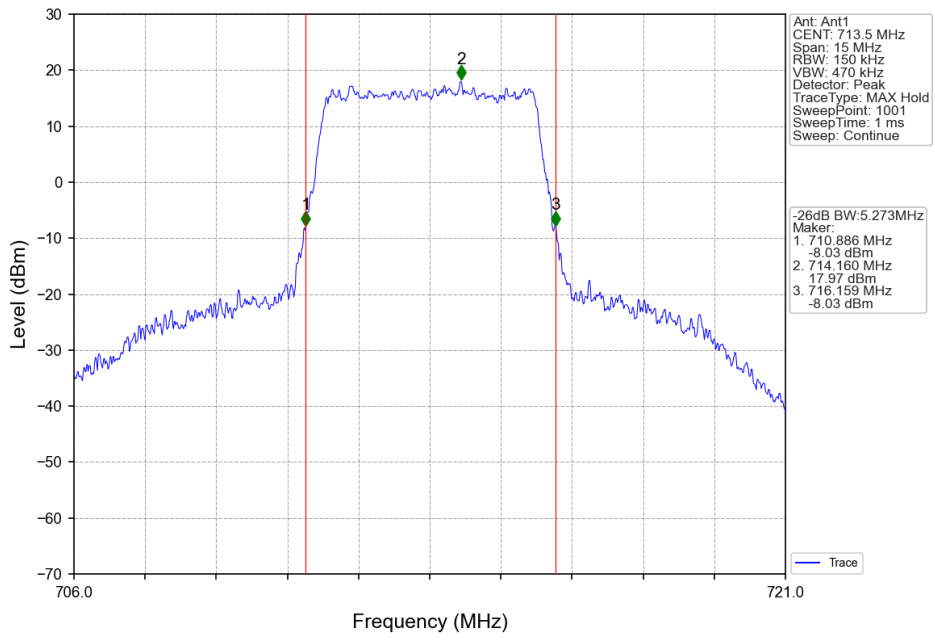
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.282	/	Pass
		710	25	0	5.341	/	Pass
		713.5	25	0	5.273	/	Pass
	16QAM	706.5	25	0	5.299	/	Pass
		710	25	0	5.185	/	Pass
		713.5	25	0	5.307	/	Pass
10	QPSK	709	50	0	10.324	/	Pass
		710	50	0	10.289	/	Pass
		711	50	0	10.277	/	Pass
	16QAM	709	50	0	10.254	/	Pass
		710	50	0	10.282	/	Pass
		711	50	0	10.176	/	Pass



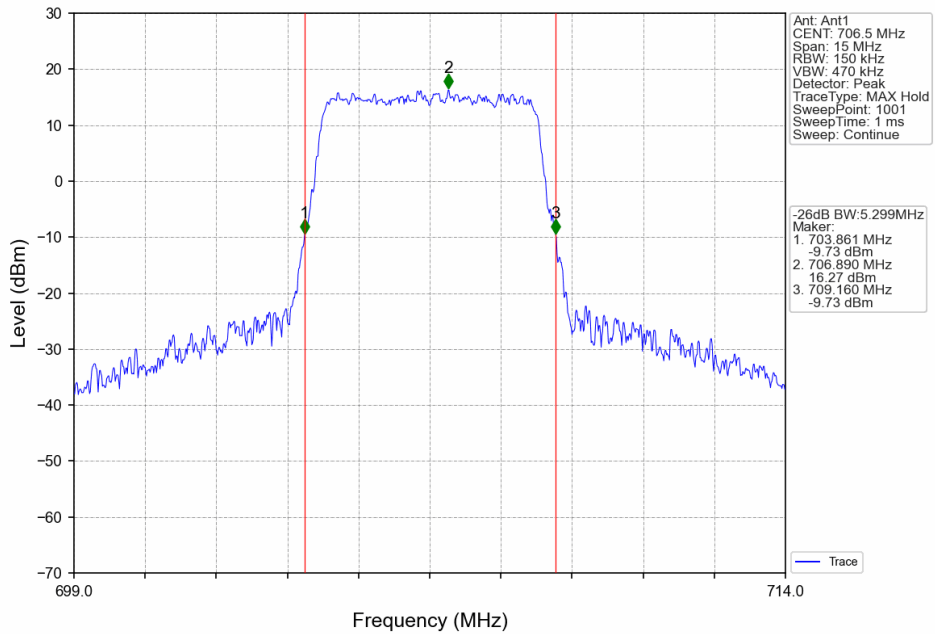
## 4.2.2 Test Graph



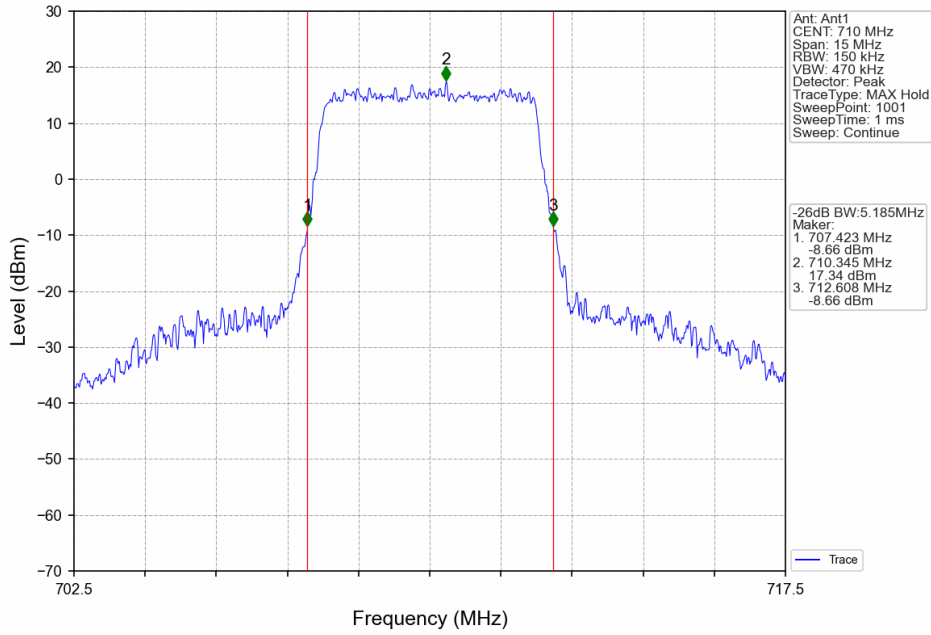
Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



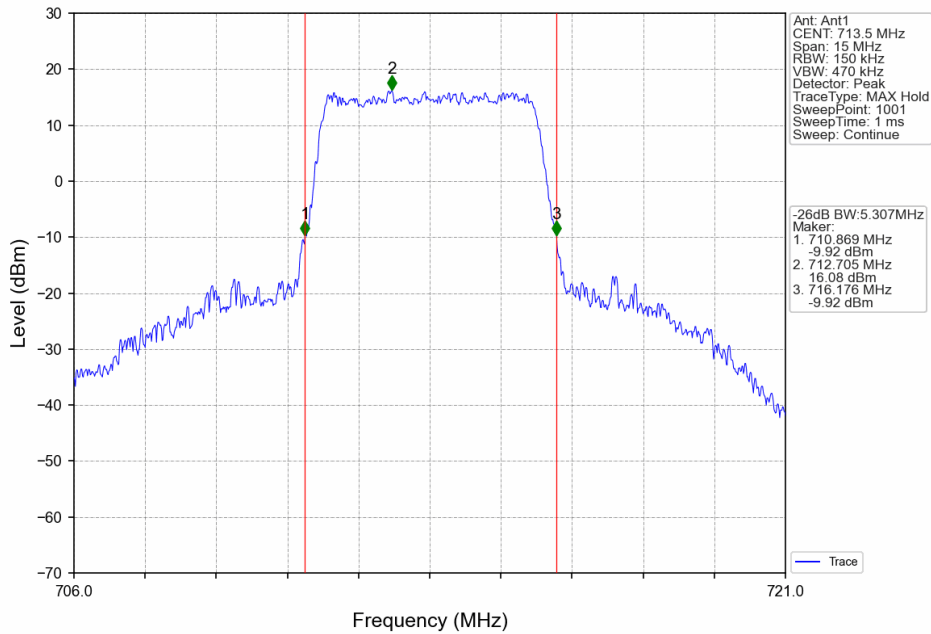
Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



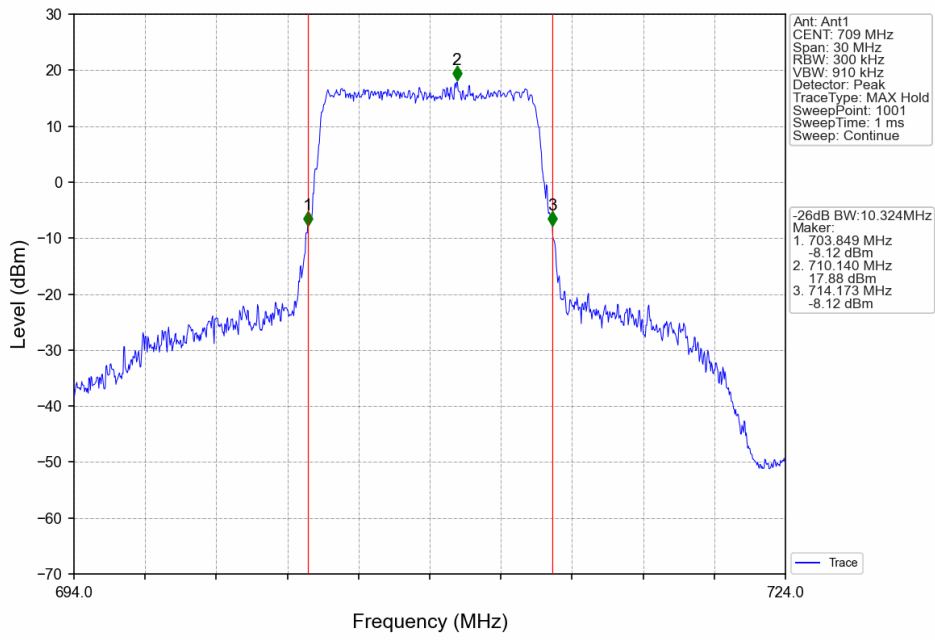
Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



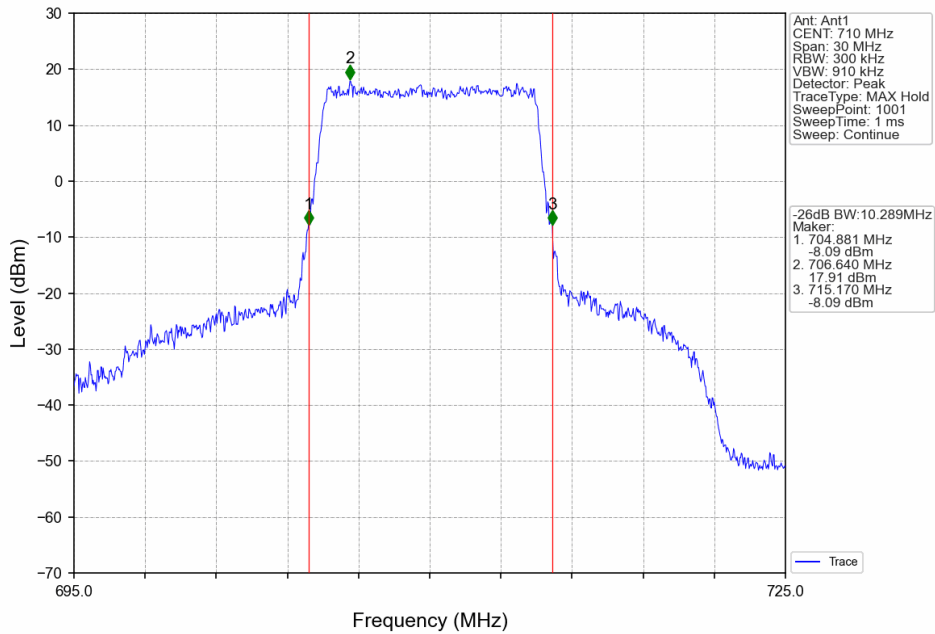
Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



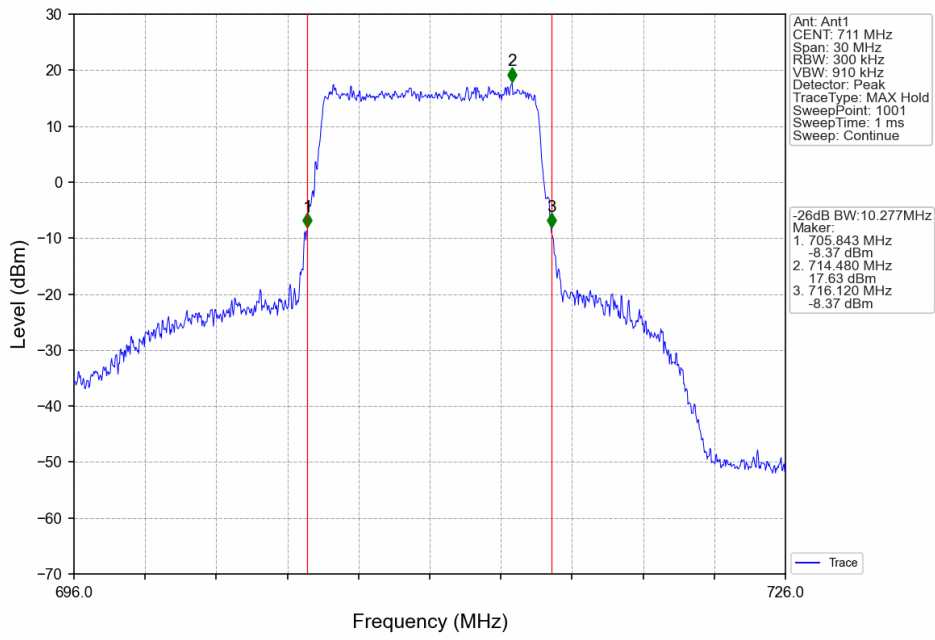
Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV



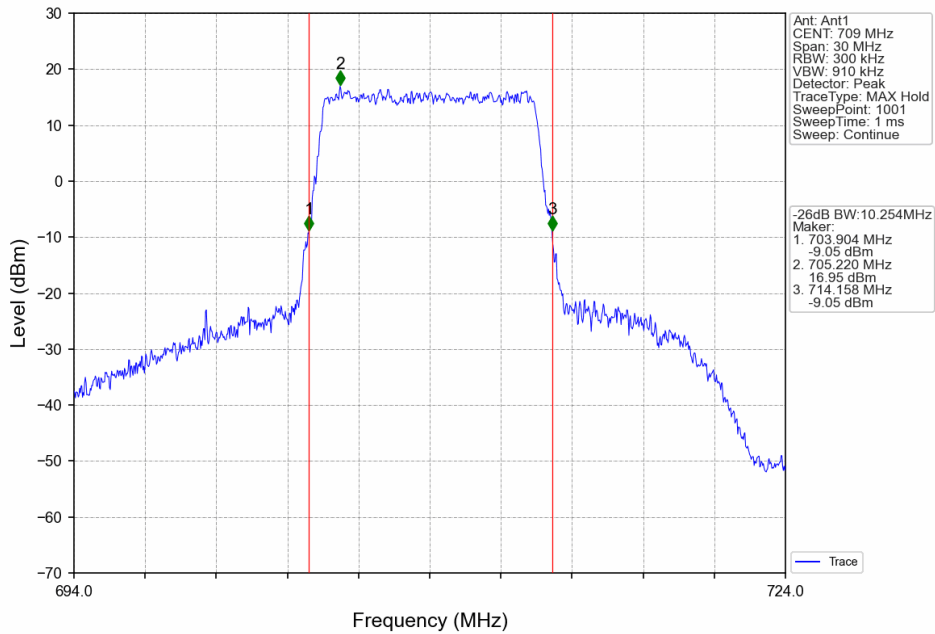
Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_50\_0\_NTNV



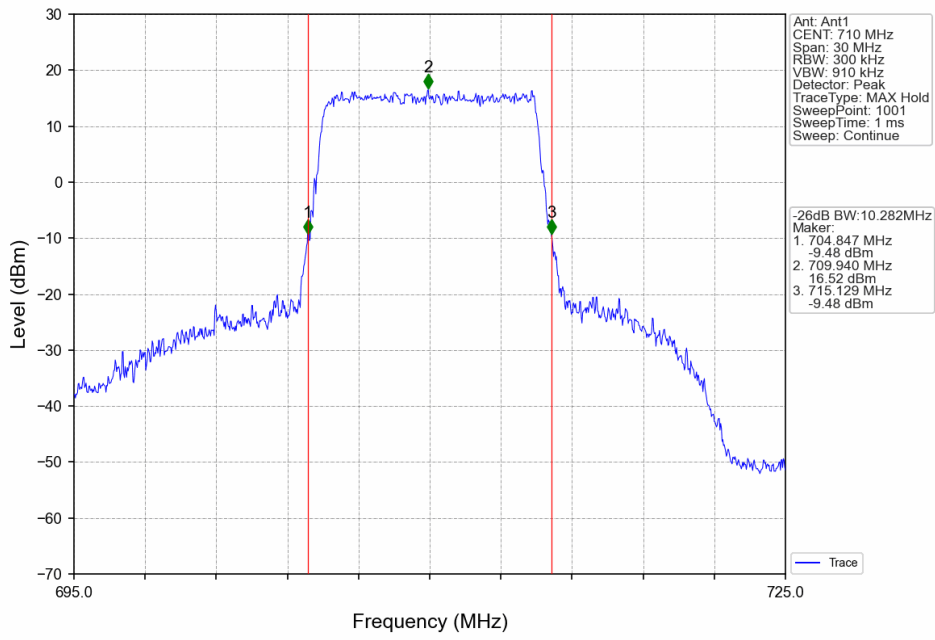
Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



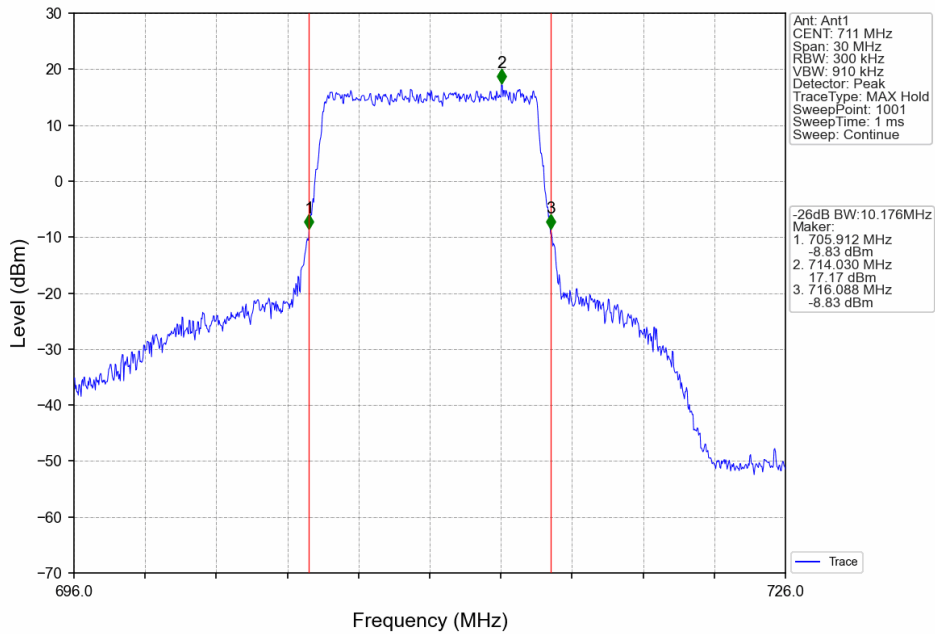
Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



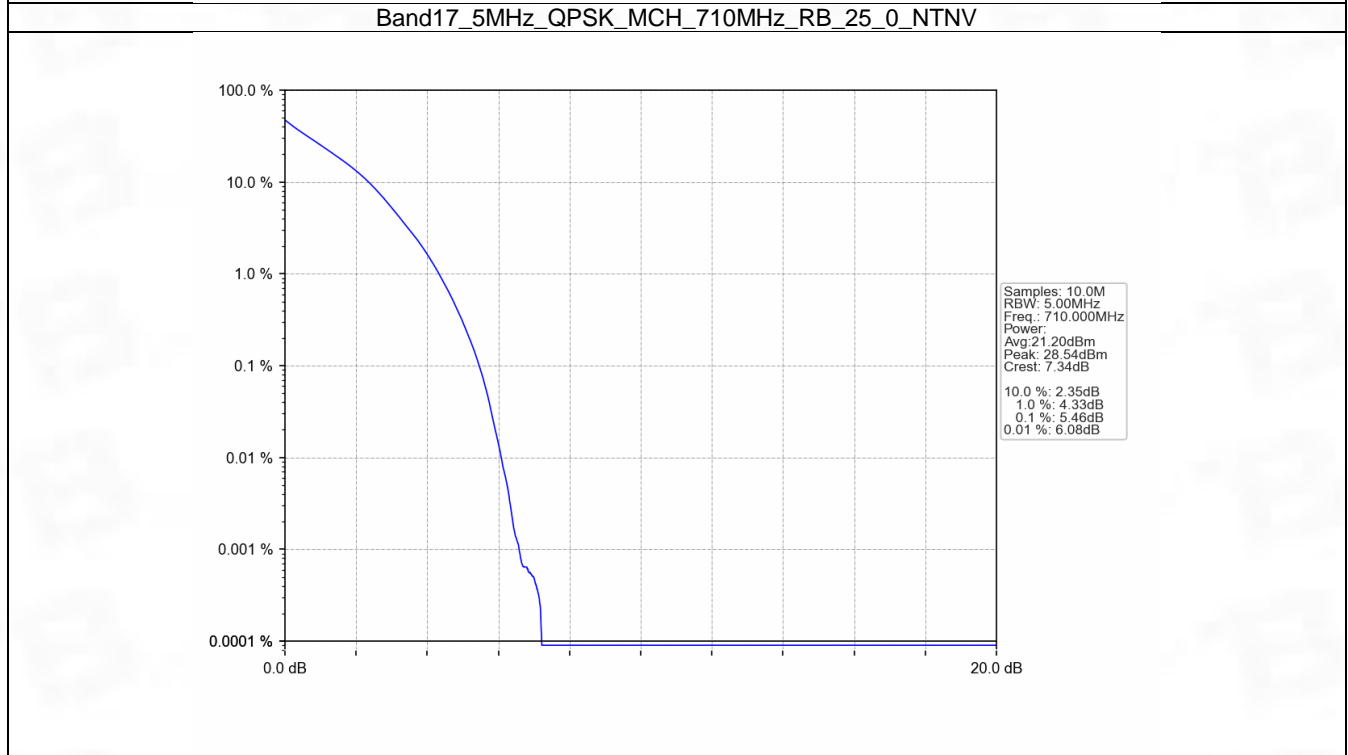
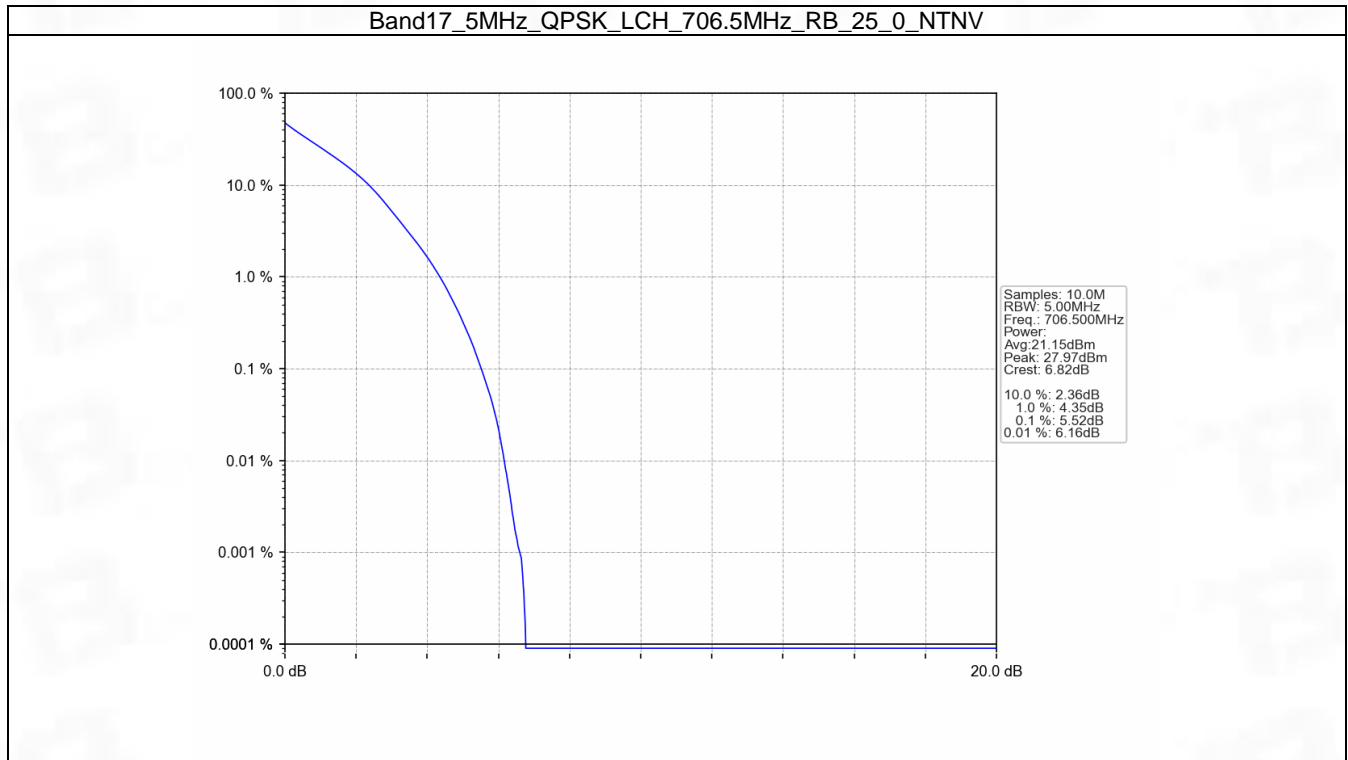
## 5. Peak-Average Ratio

### 5.1 B17\_5MHz

#### 5.1.1 Test Result

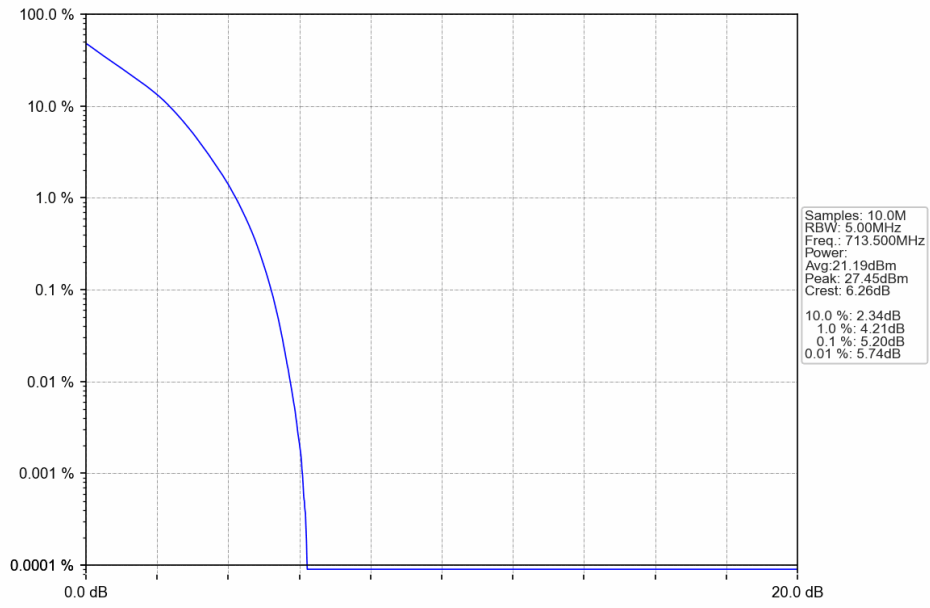
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.52	<=13	Pass
	710	25	0	5.46	<=13	Pass
	713.5	25	0	5.20	<=13	Pass
16QAM	706.5	25	0	6.25	<=13	Pass
	710	25	0	6.16	<=13	Pass
	713.5	25	0	5.89	<=13	Pass

### 5.1.2 Test Graph

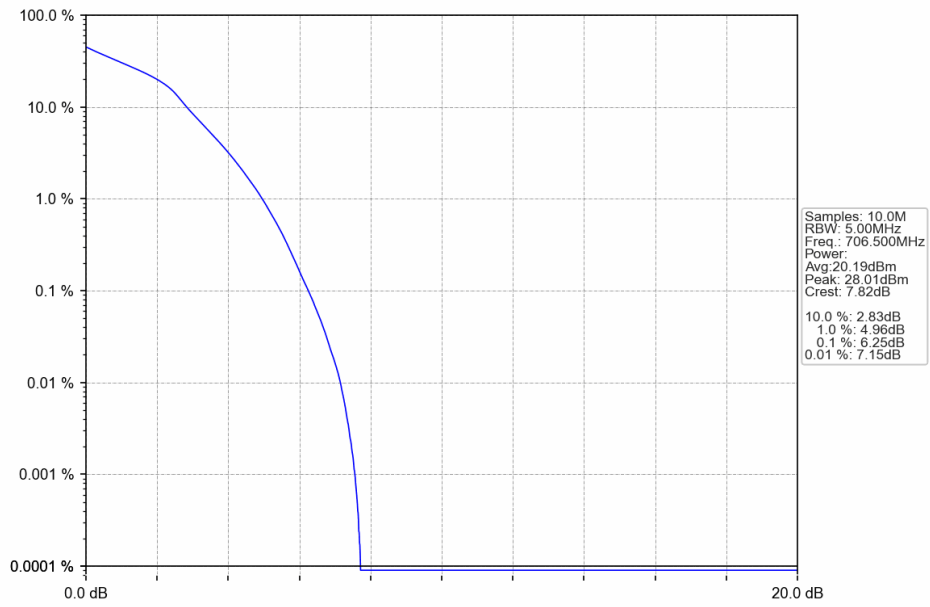




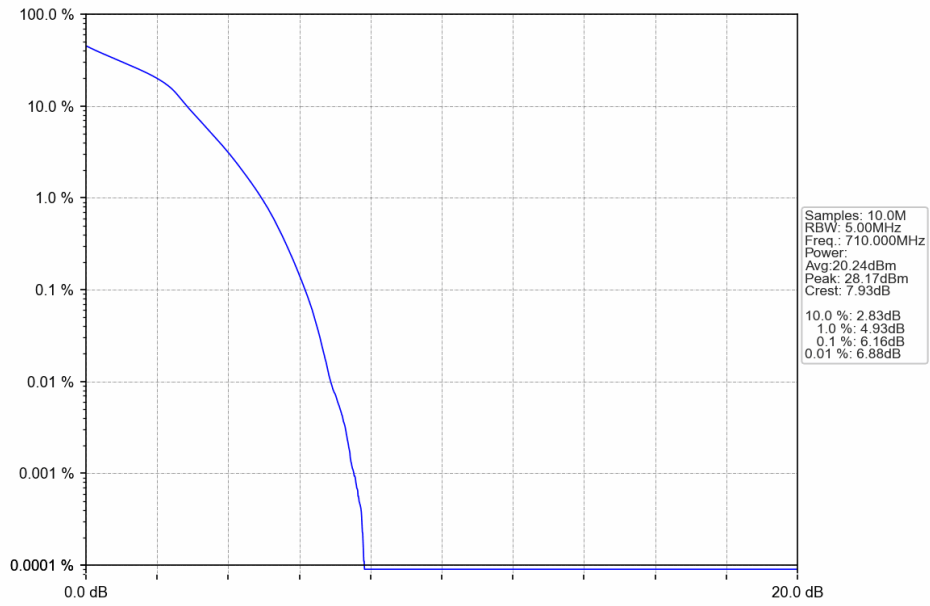
Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



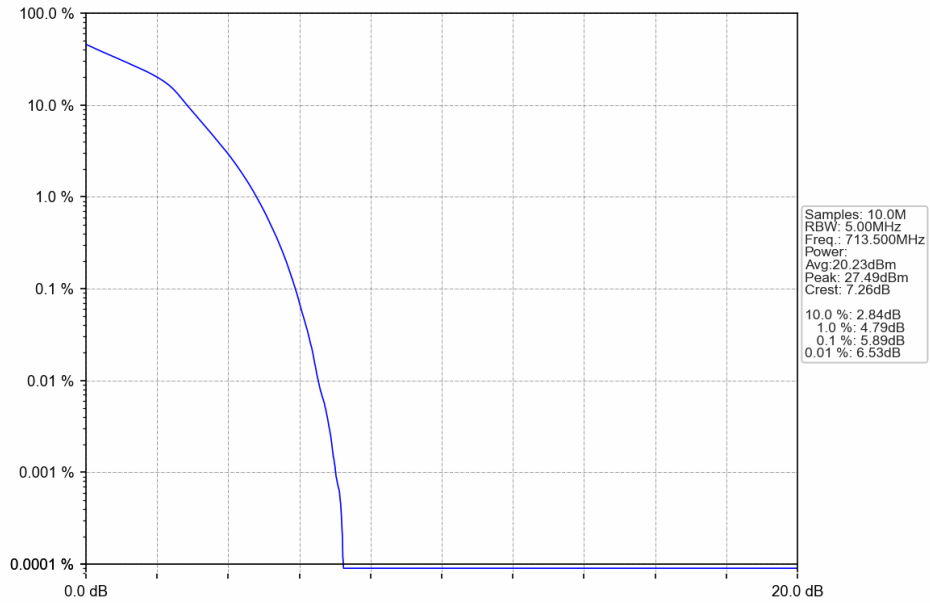
Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

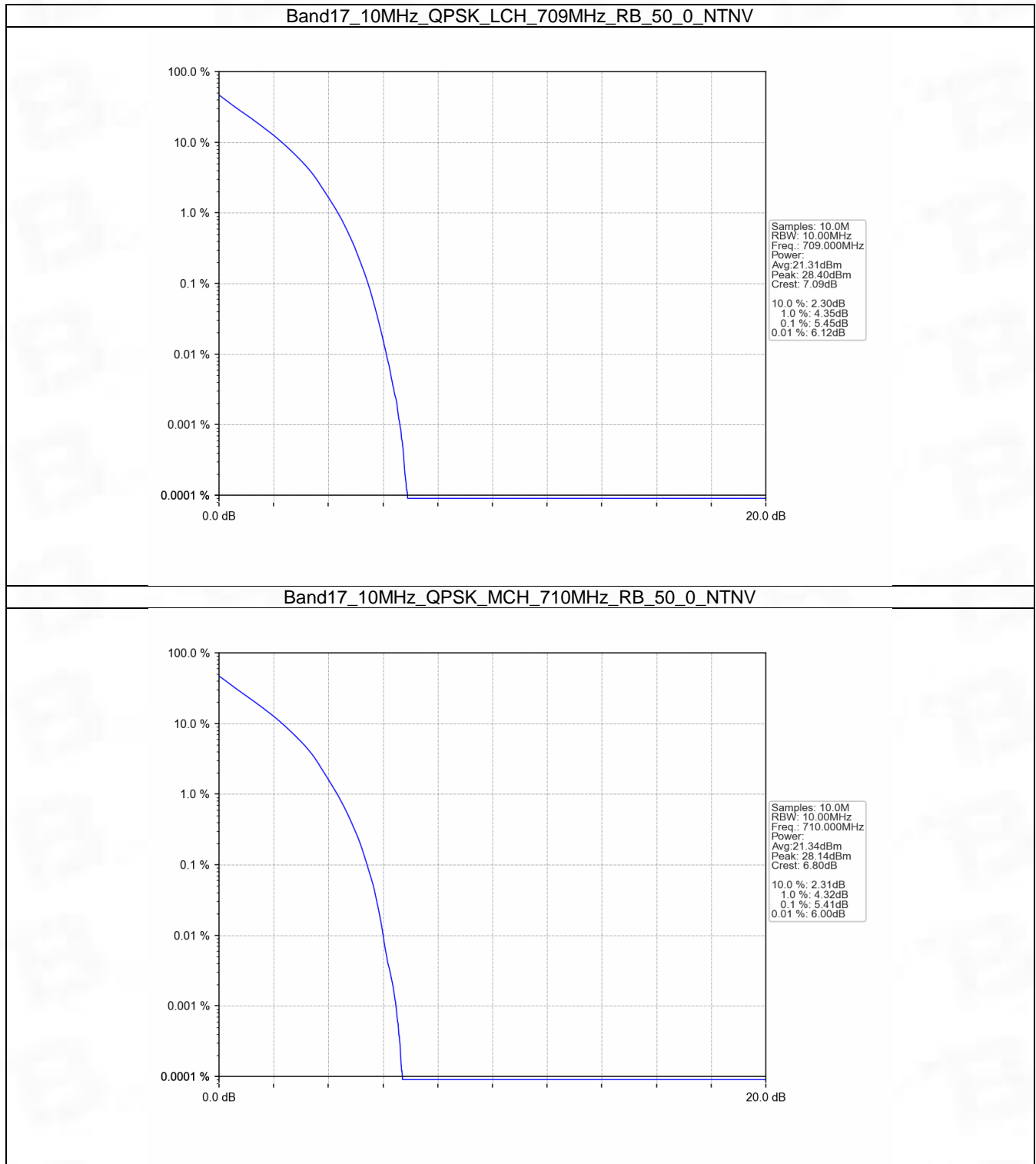


## 5.2 B17\_10MHz

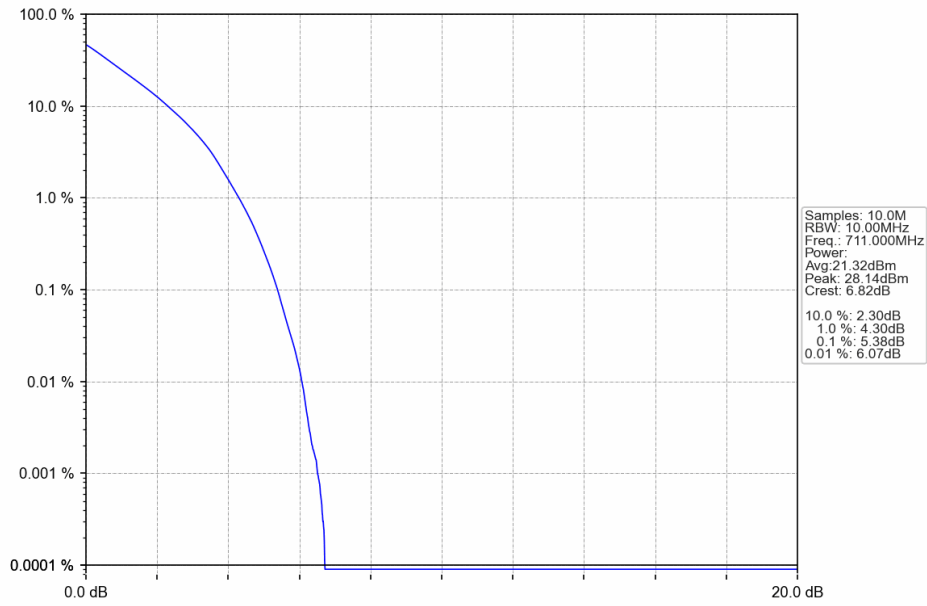
### 5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.45	<=13	Pass
	710	50	0	5.41	<=13	Pass
	711	50	0	5.38	<=13	Pass
16QAM	709	50	0	6.19	<=13	Pass
	710	50	0	6.16	<=13	Pass
	711	50	0	6.09	<=13	Pass

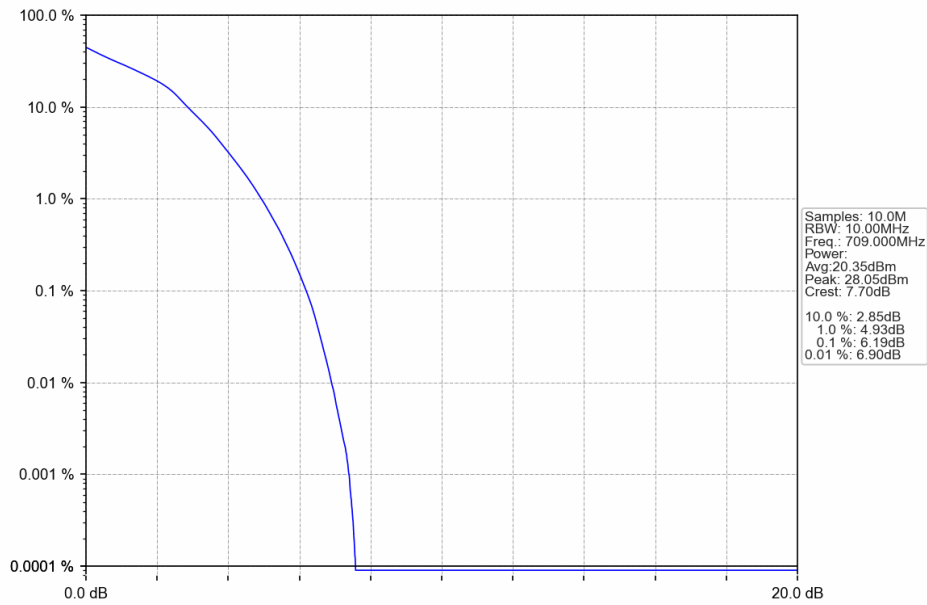
## 5.2.2 Test Graph



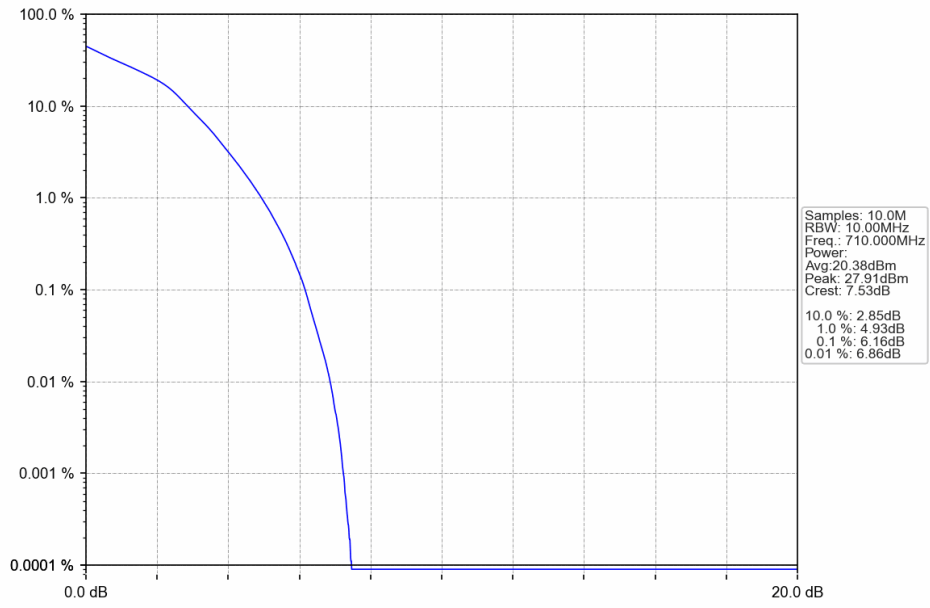
Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



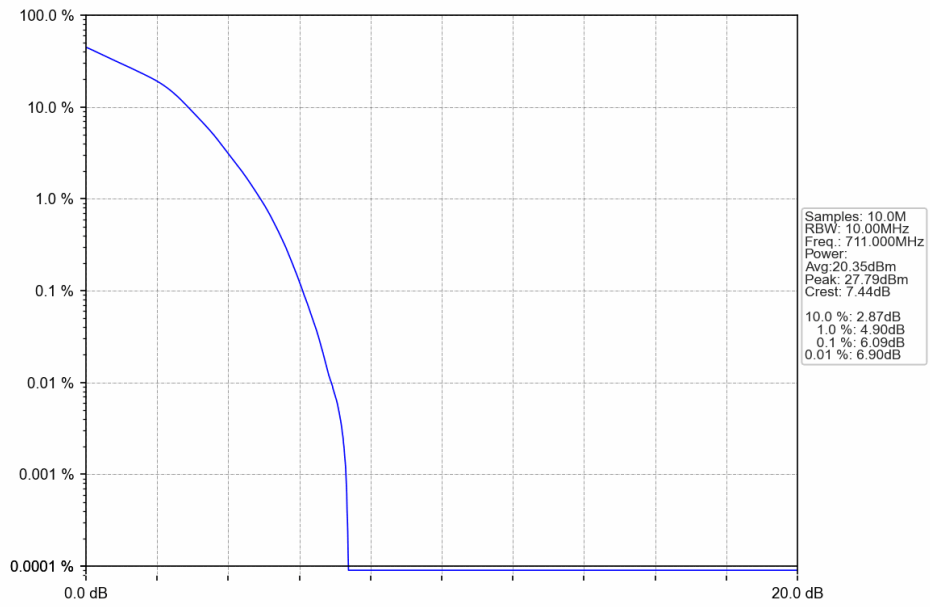
Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



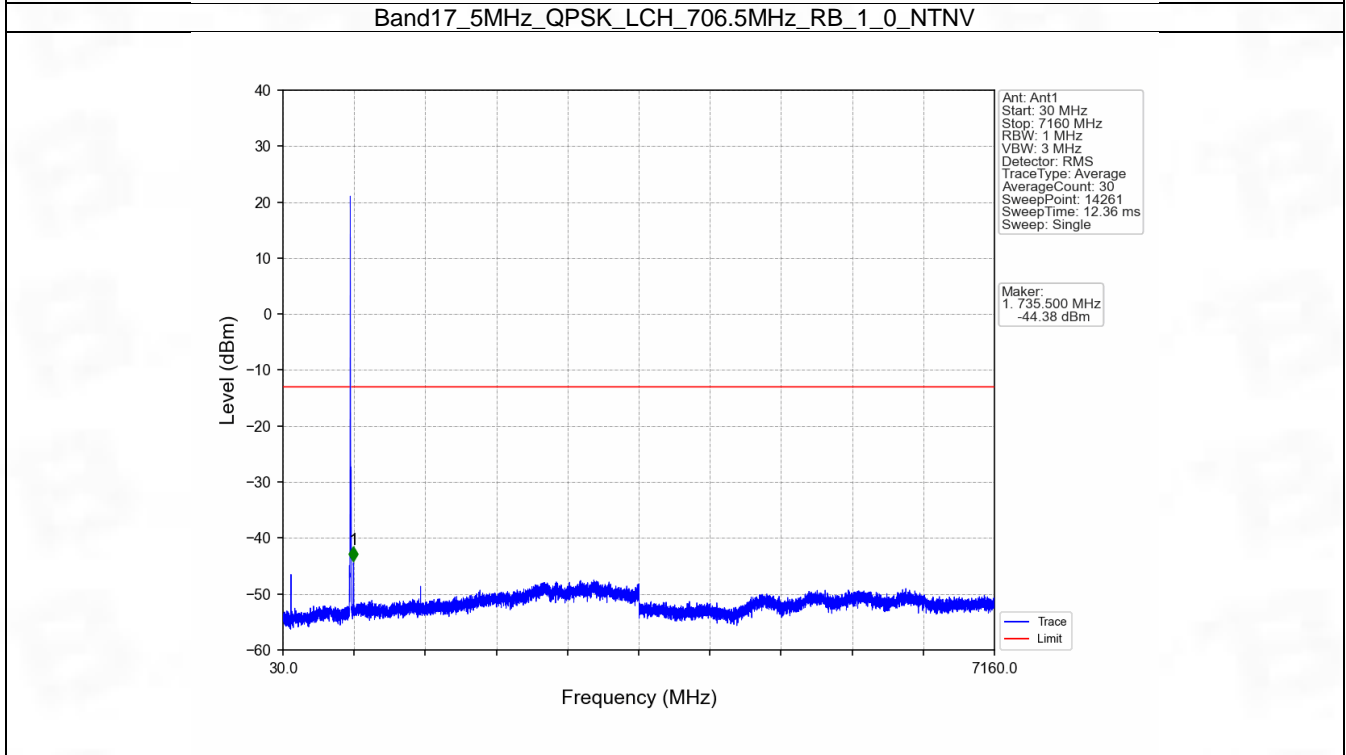
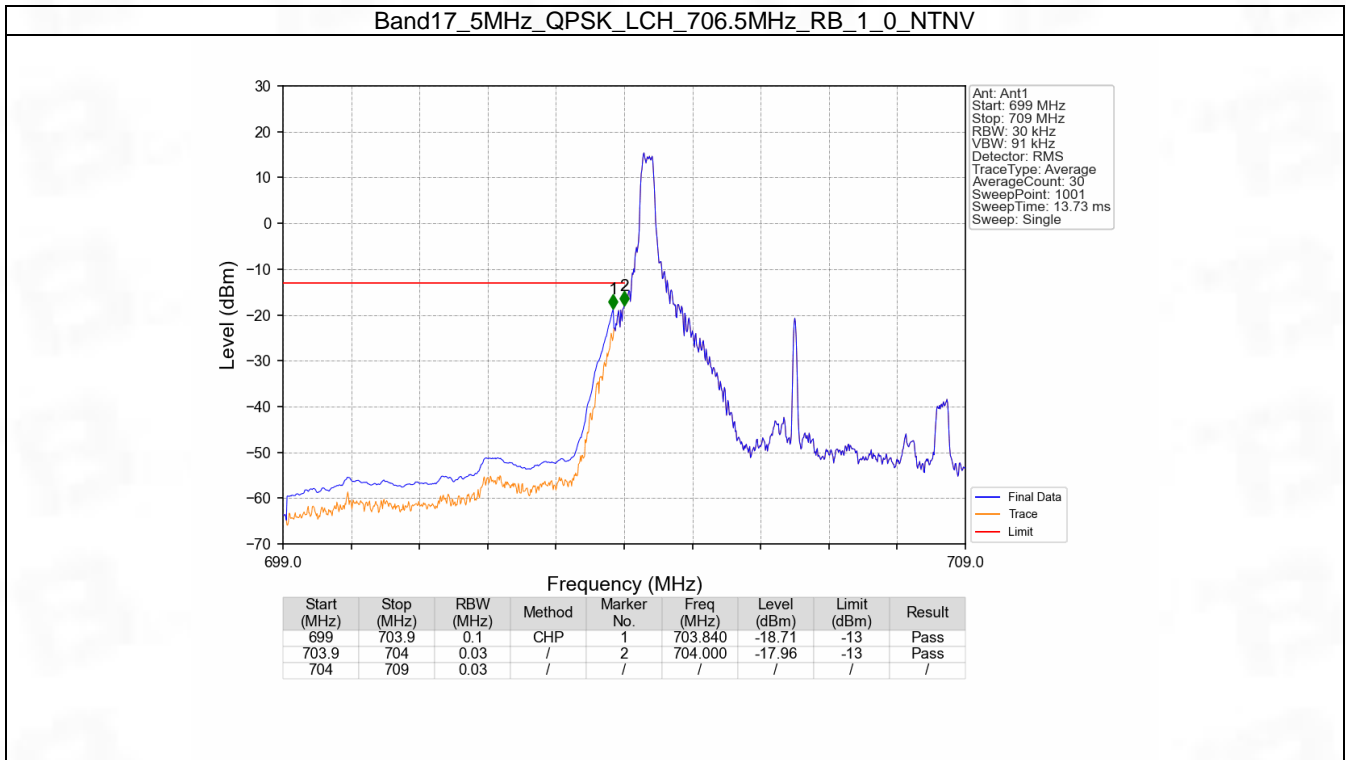
## 6. Spurious Emission

### 6.1 B17\_5MHz

#### 6.1.1 Test Result

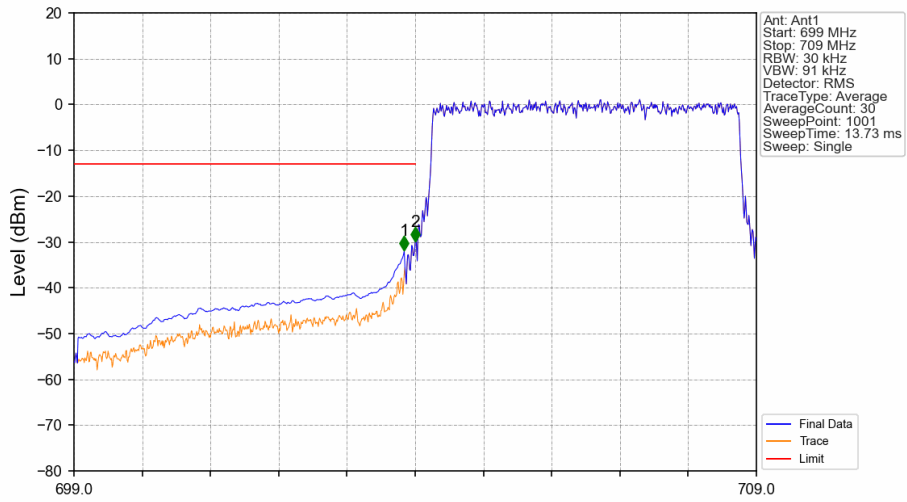
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
		713.5	1	0	Refer To Test Graph	
				24	Refer To Test Graph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

### 6.1.2 Test Graph



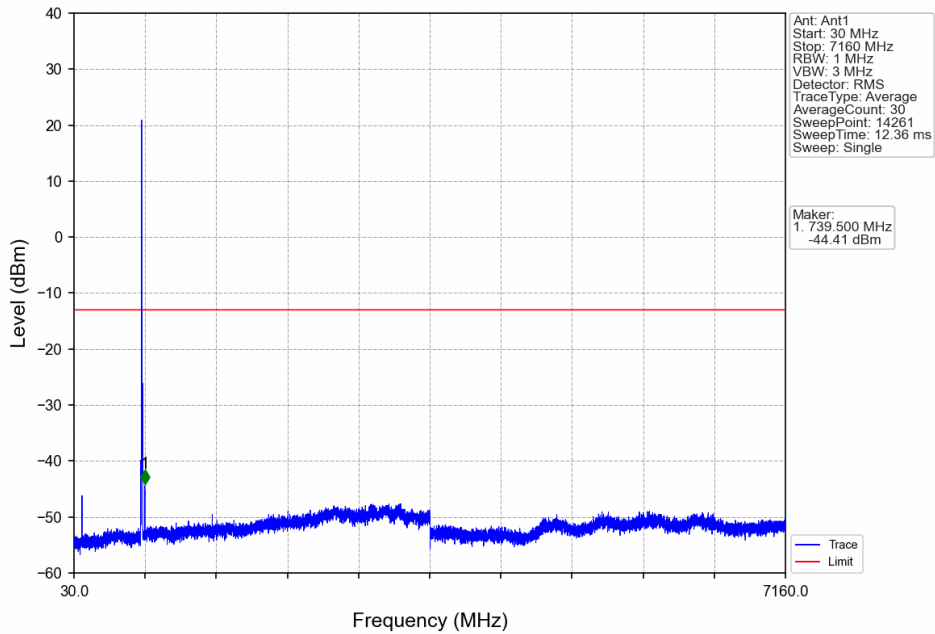


Band17\_5MHz\_QPSK\_LCH\_706.5MHz\_RB\_25\_0\_NTNV

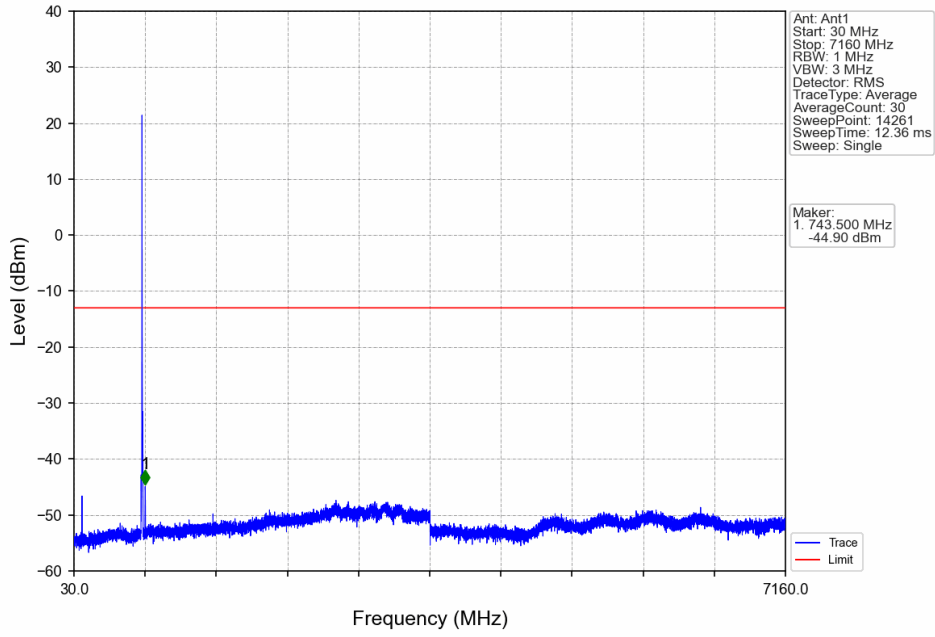


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-31.91	-13	Pass
703.9	704	0.03	/	2	704.000	-29.91	-13	Pass
704	709	0.03	/	/	/	/	/	/

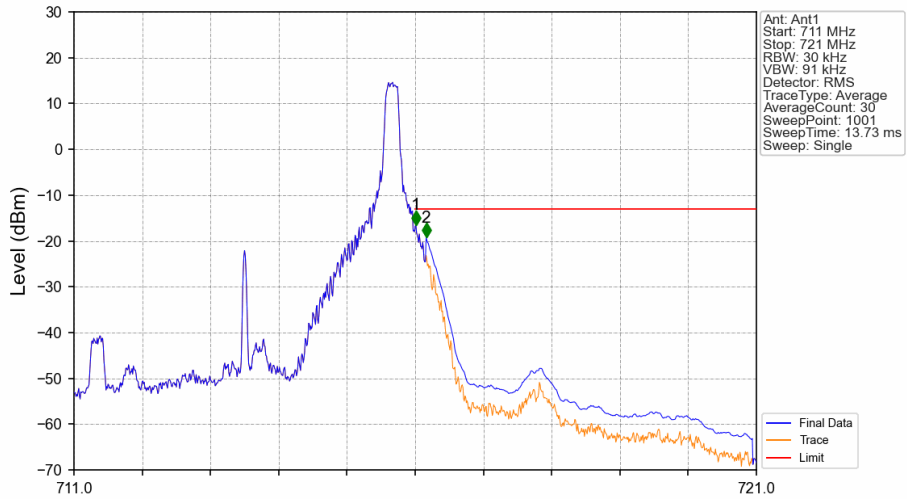
Band17\_5MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV



Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

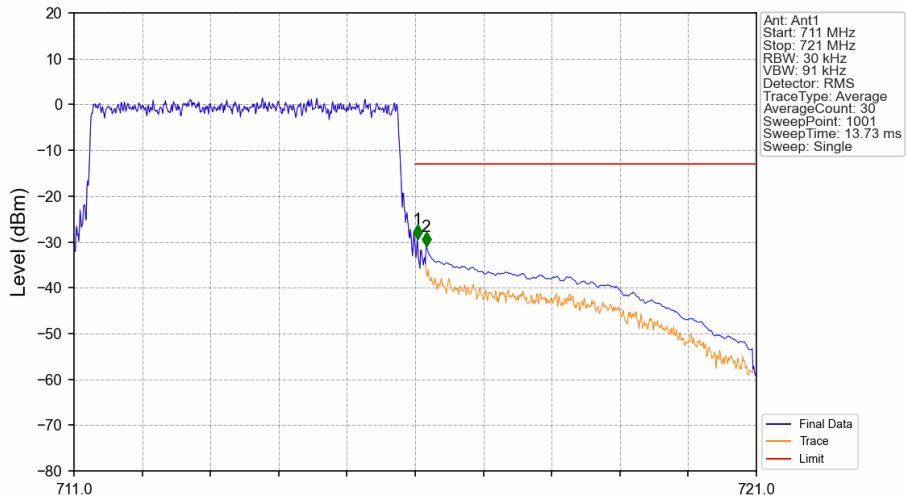


Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



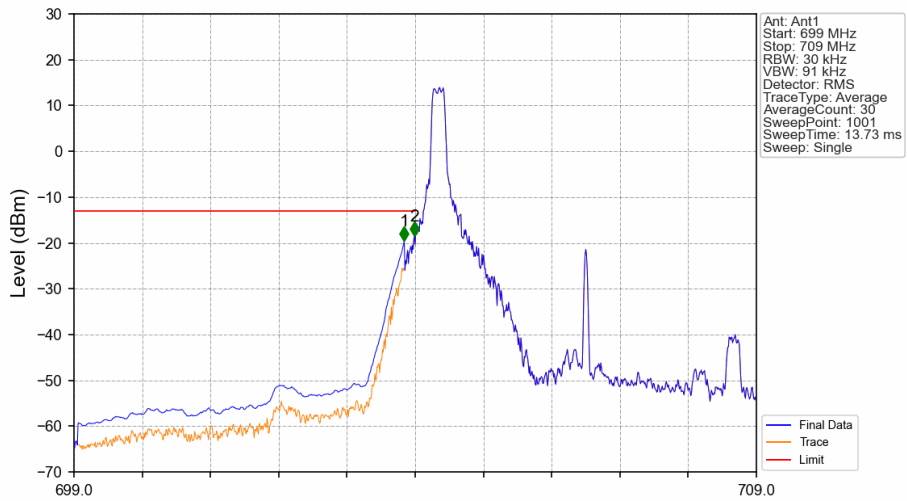
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-16.47	-13	Pass
716.1	721	0.1	CHP	2	716.160	-19.28	-13	Pass

Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



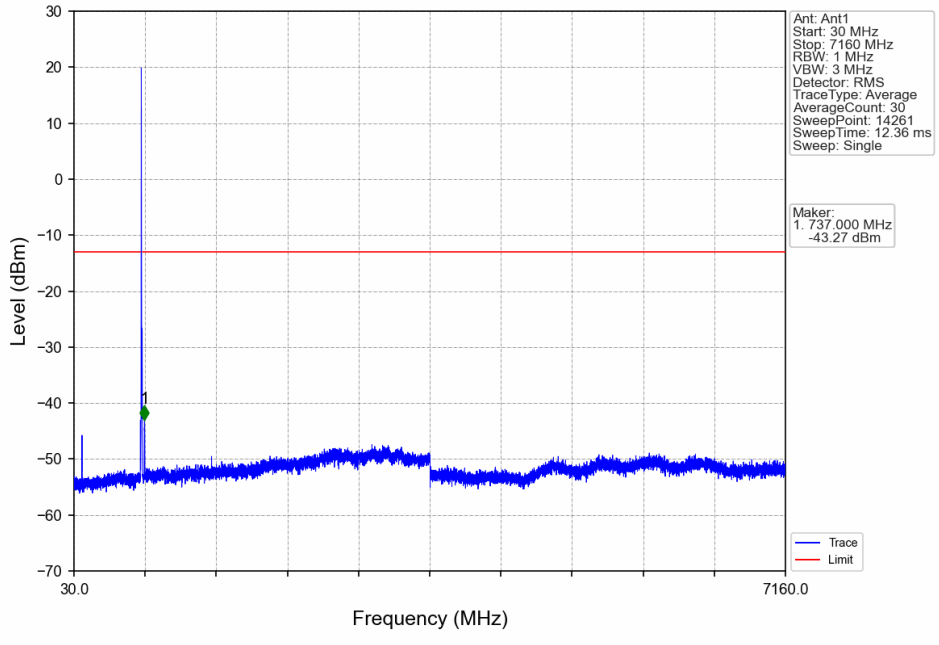
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.030	-29.39	-13	Pass
716.1	721	0.1	CHP	2	716.160	-30.93	-13	Pass

Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV

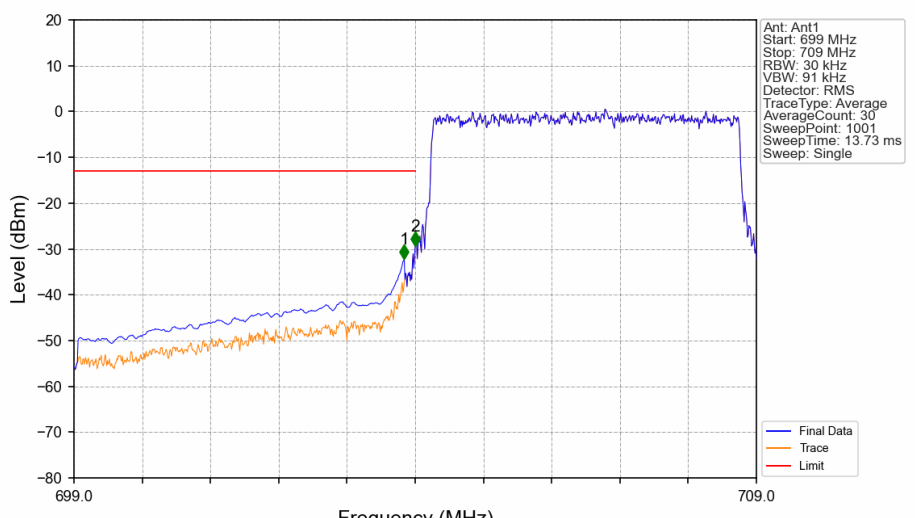


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-19.61	-13	Pass
703.9	704	0.03	/	2	703.990	-18.47	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV

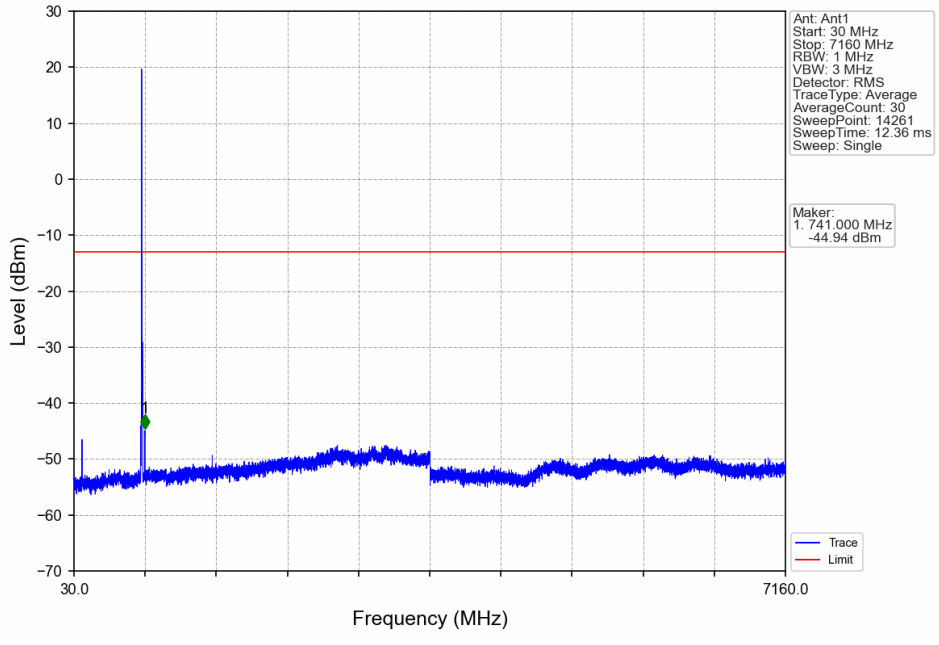


Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV

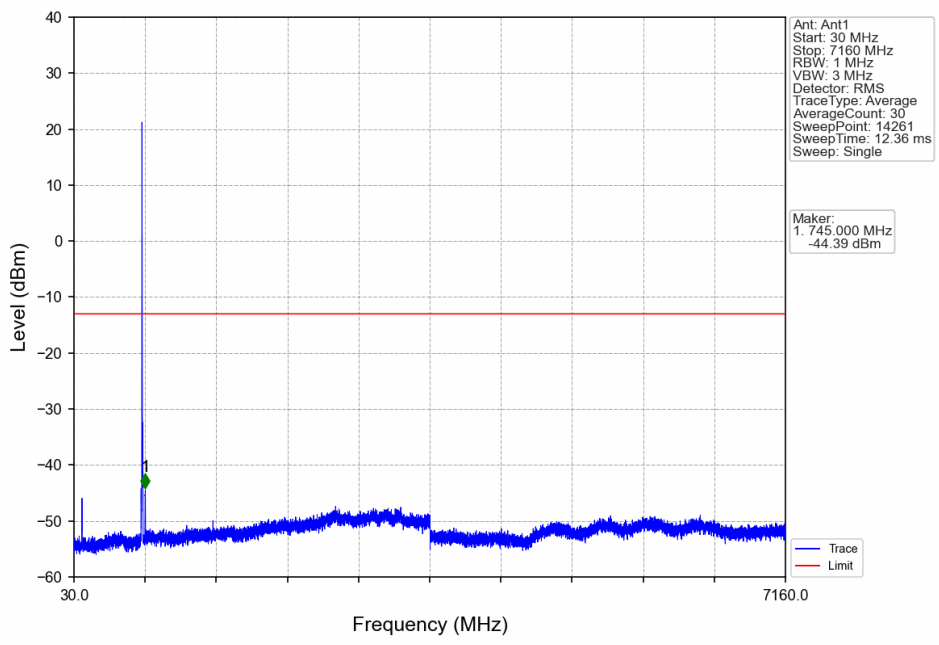


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-32.27	-13	Pass
703.9	704	0.03	/	2	704.000	-29.37	-13	Pass
704	709	0.03	/	/	/	/	/	/

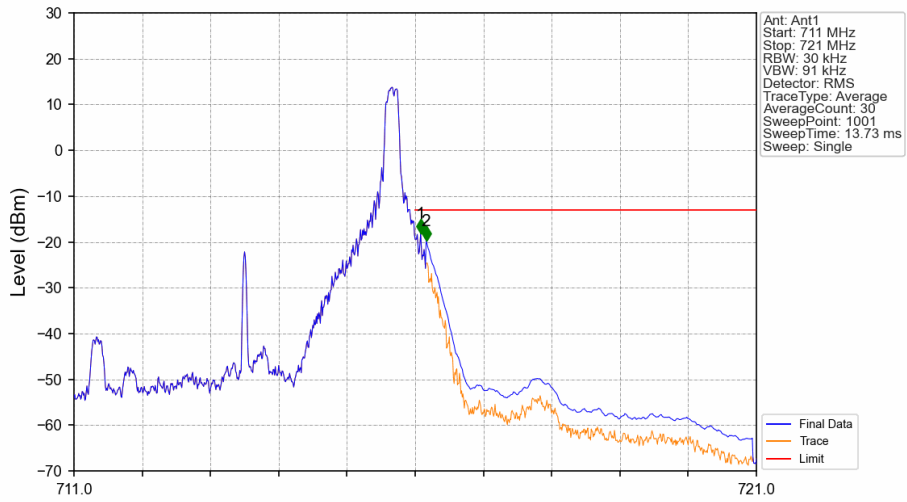
Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_1\_0\_NTNV



Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

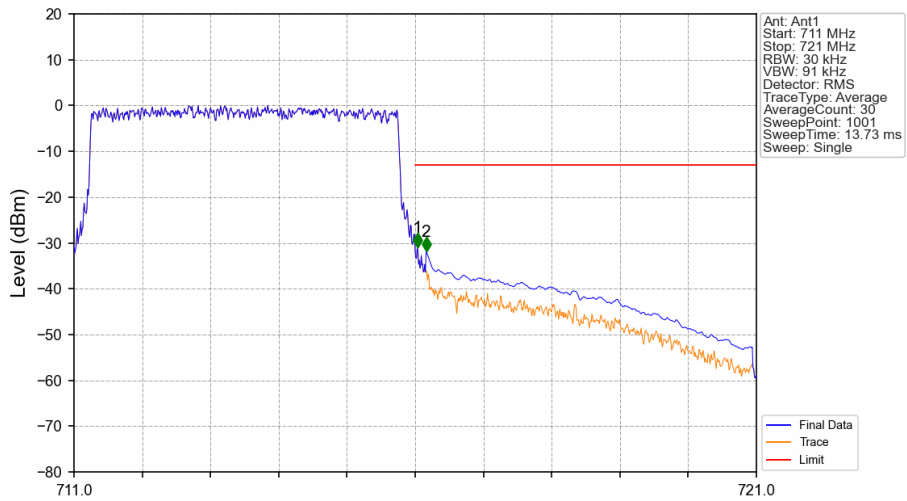


Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.080	-18.13	-13	Pass
716.1	721	0.1	CHP	2	716.160	-19.76	-13	Pass

Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



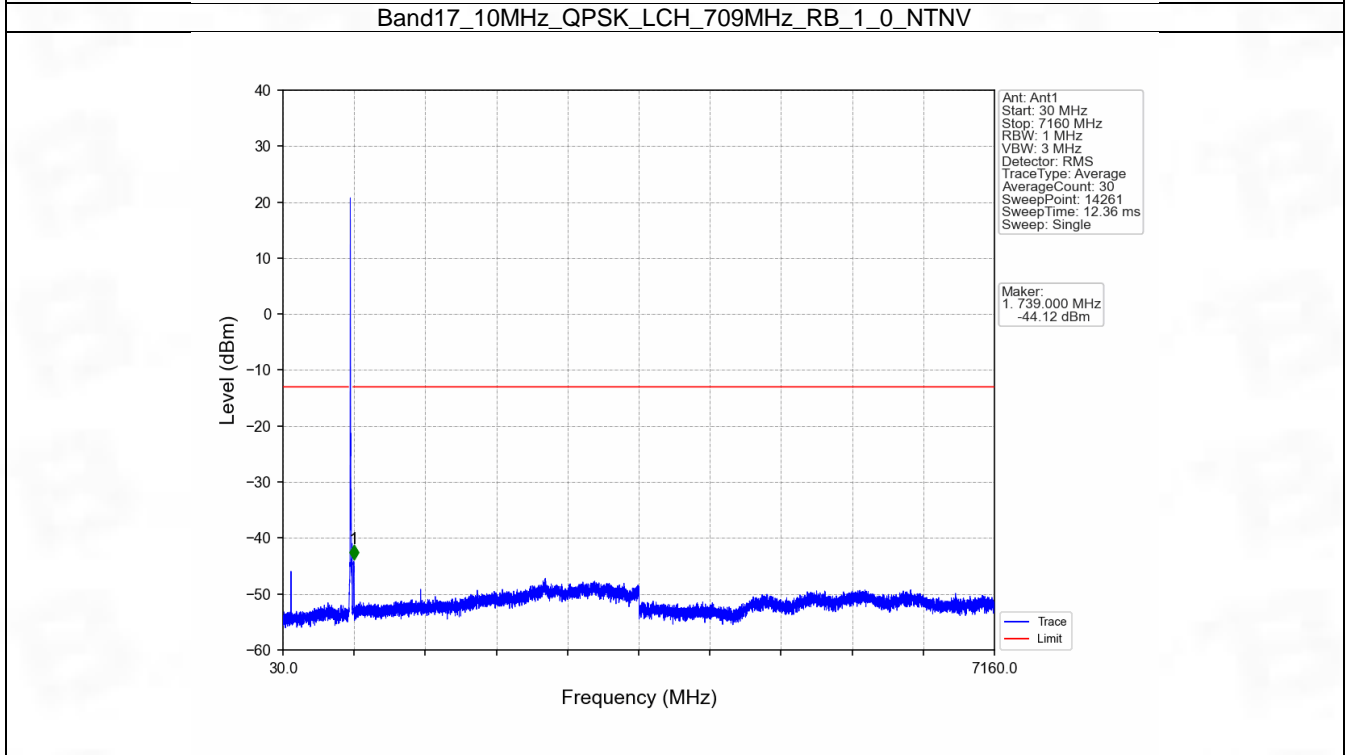
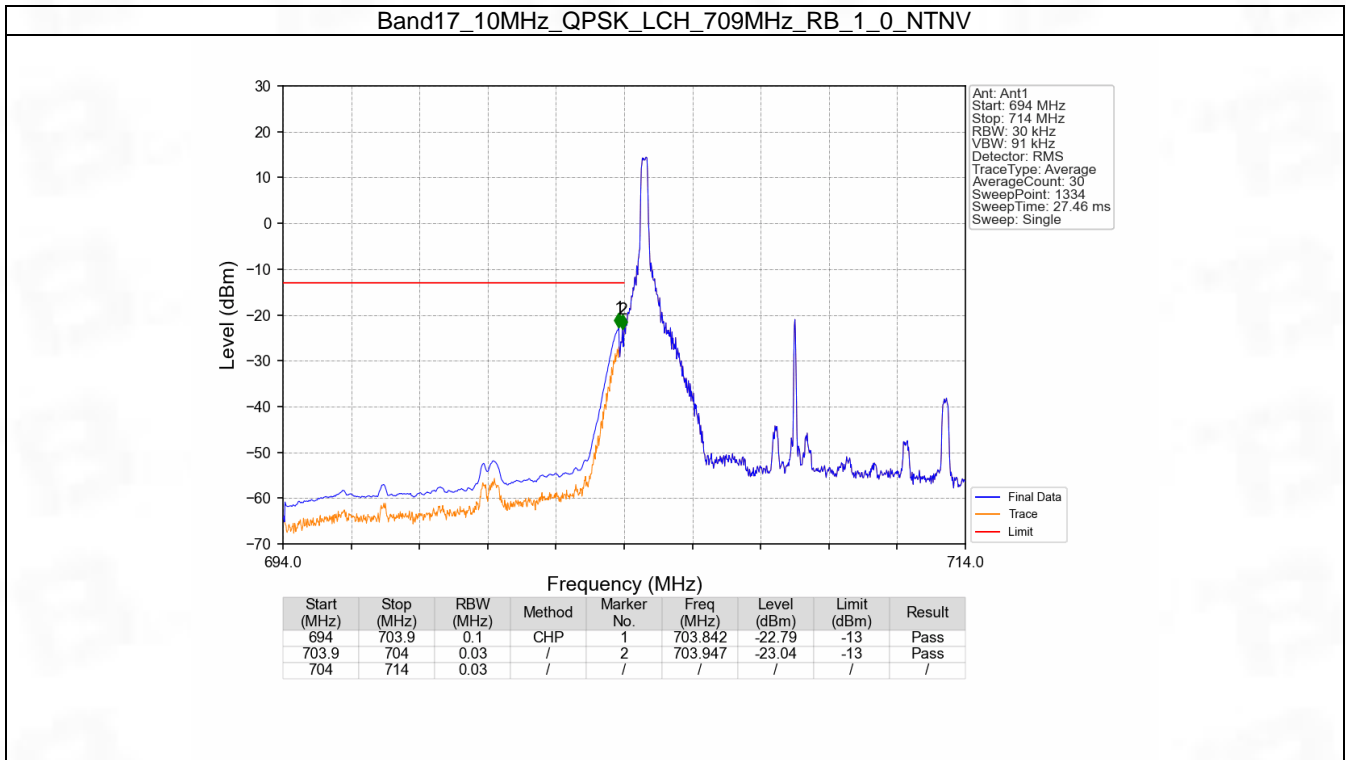
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.030	-31.04	-13	Pass
716.1	721	0.1	CHP	2	716.160	-31.85	-13	Pass

## 6.2 B17\_10MHz

### 6.2.1 Test Result

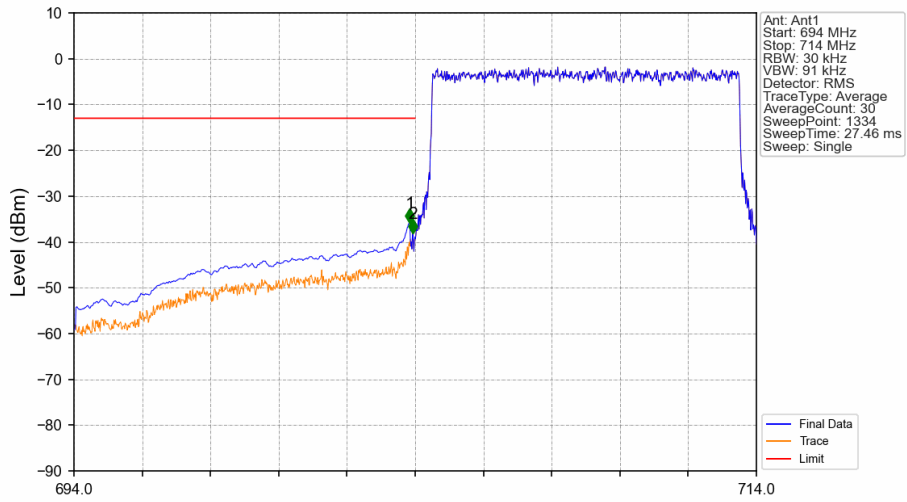
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

### 6.2.2 Test Graph



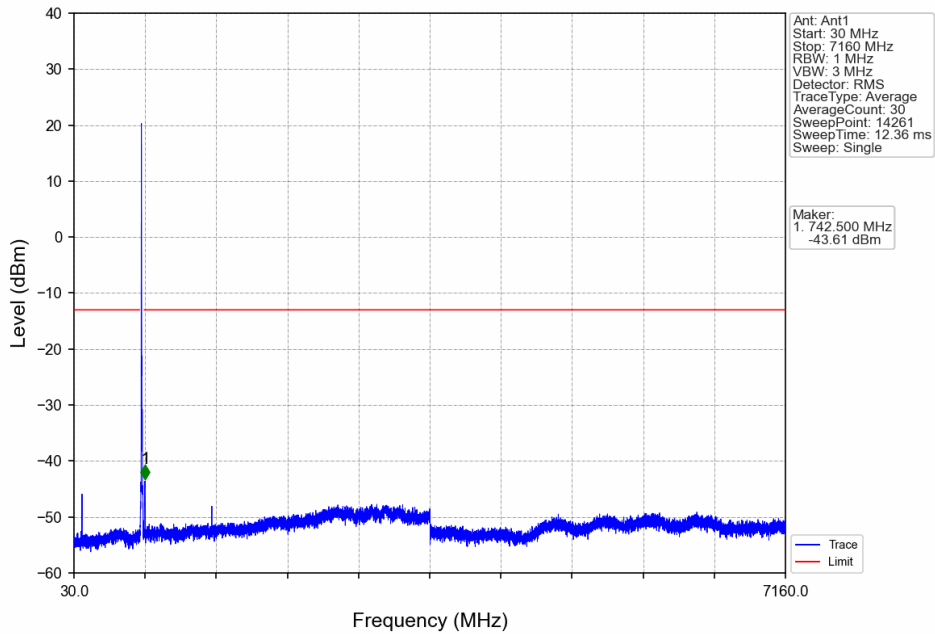


Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV

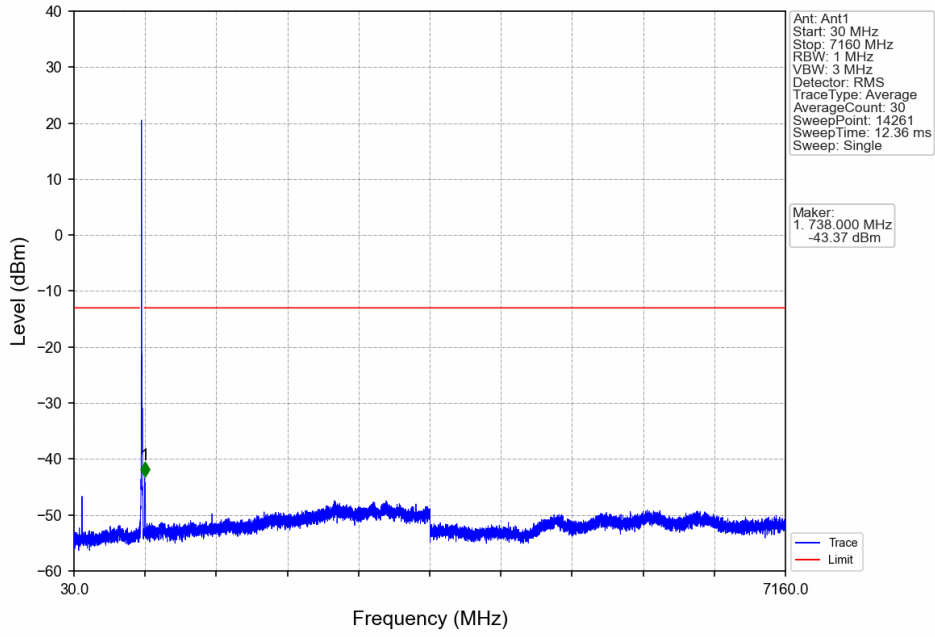


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-35.83	-13	Pass
703.9	704	0.03	/	2	703.932	-38.12	-13	Pass
704	714	0.03	/	/	/	/	/	/

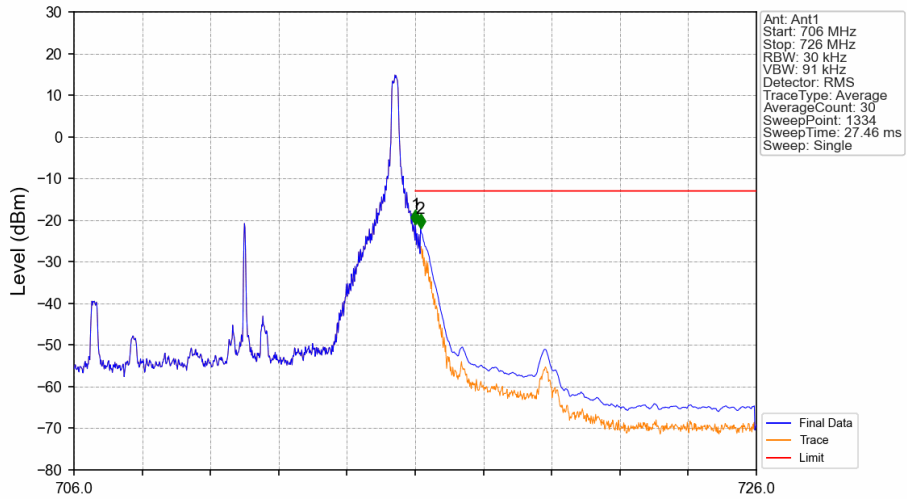
Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV



Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV

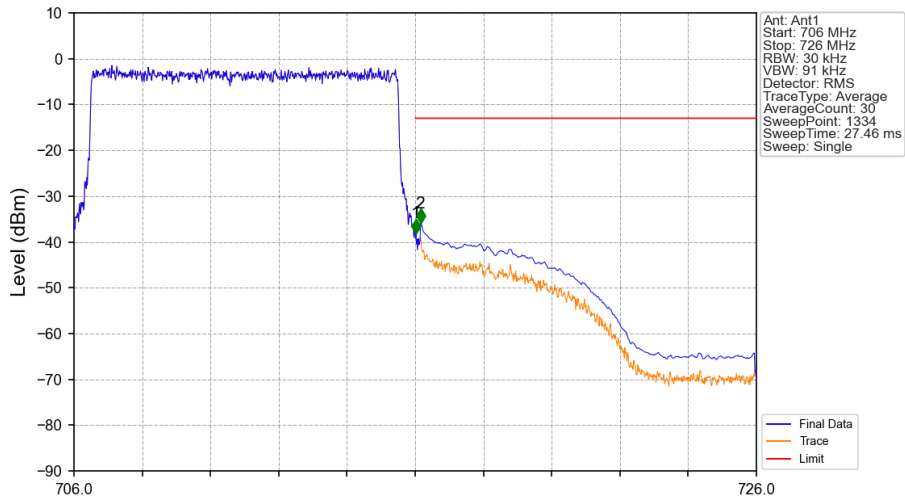


Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV



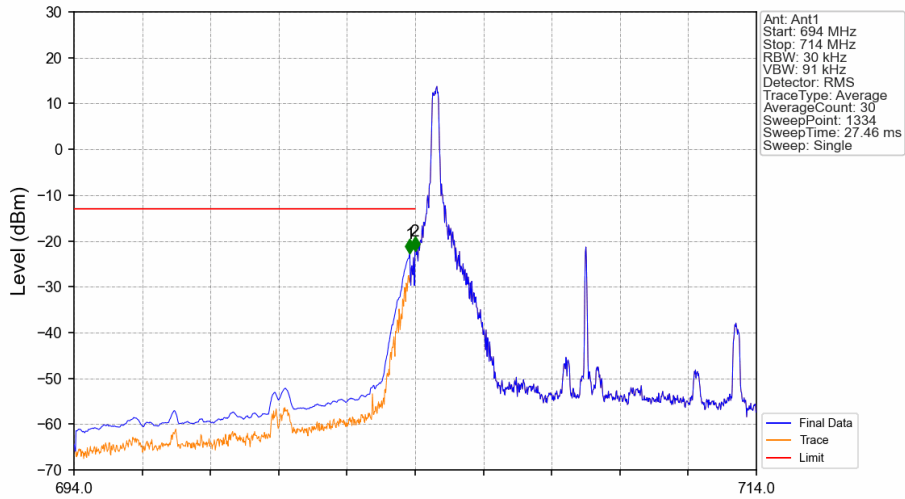
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-20.98	-13	Pass
716.1	726	0.1	CHP	2	716.158	-22.02	-13	Pass

Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



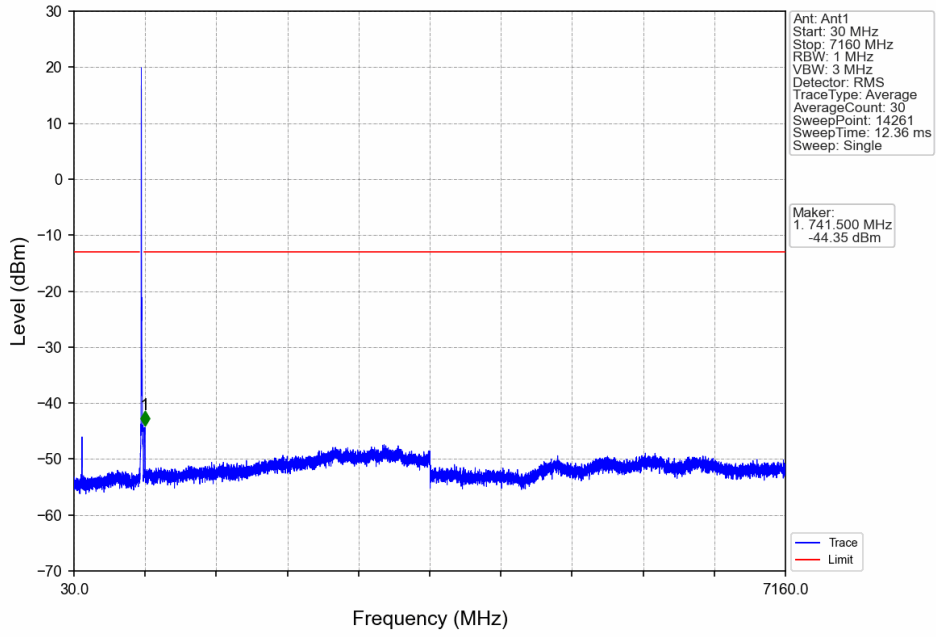
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.023	-38.05	-13	Pass
716.1	726	0.1	CHP	2	716.158	-35.81	-13	Pass

Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_1\_0\_NTNV

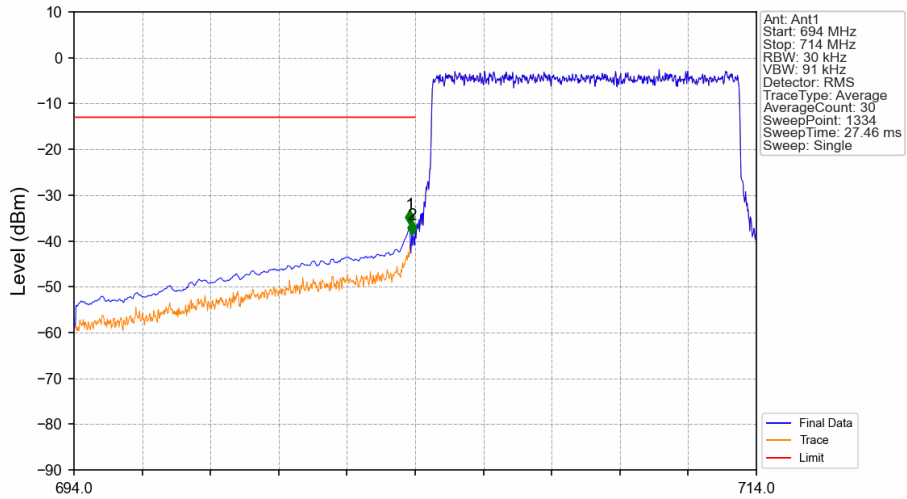


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-22.72	-13	Pass
703.9	704	0.03	/	2	703.992	-22.24	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_1\_0\_NTNV

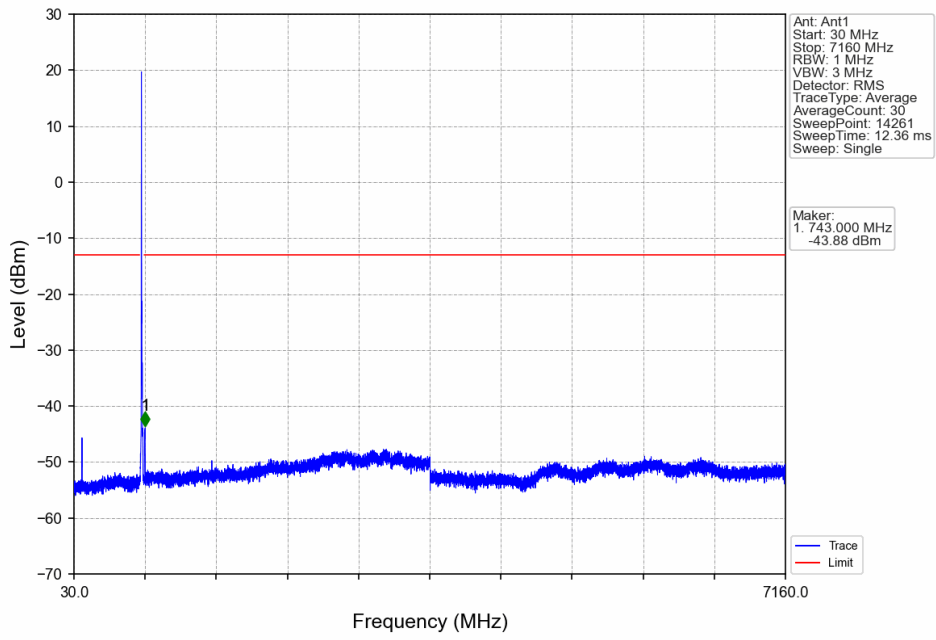


Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV

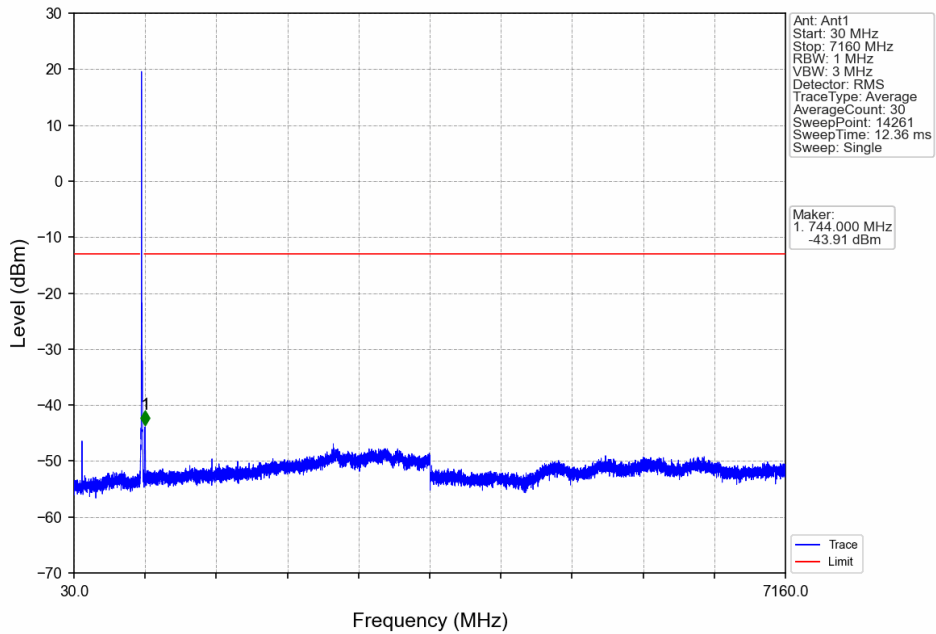


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-36.43	-13	Pass
703.9	704	0.03	/	2	703.902	-38.75	-13	Pass
704	714	0.03	/	/	/	/	/	/

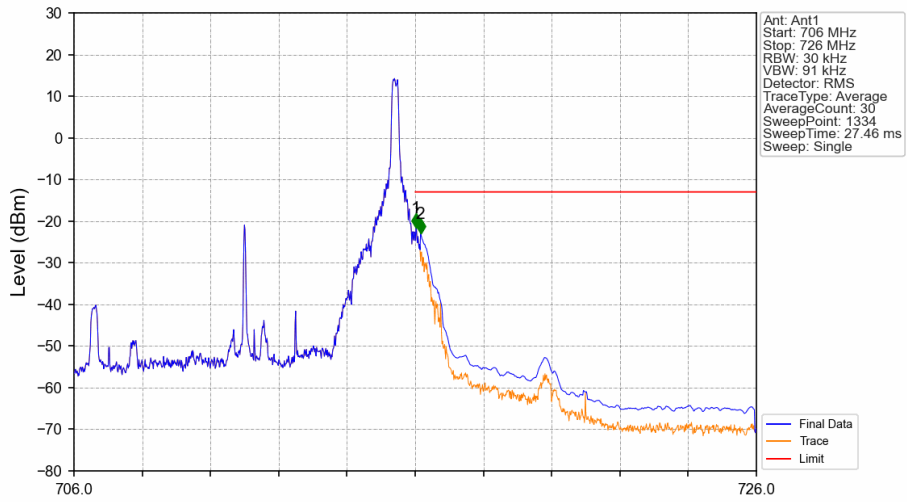
Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_1\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV

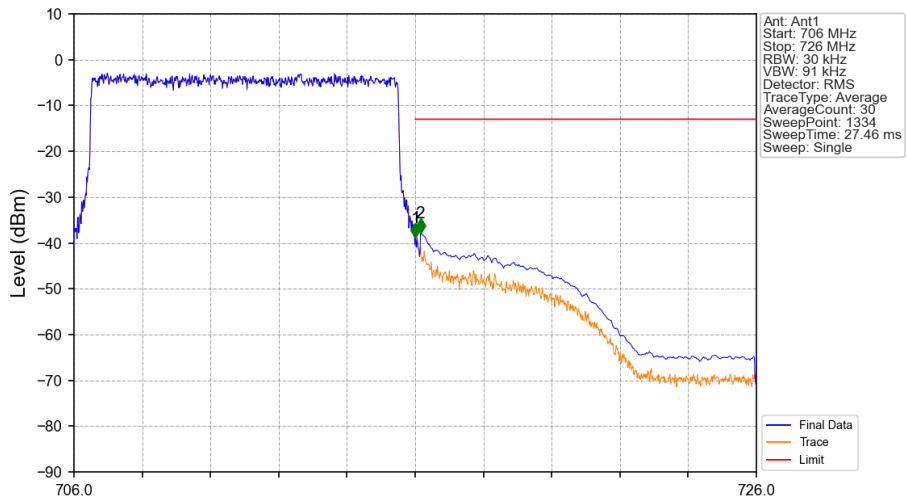


Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.023	-21.58	-13	Pass
716.1	726	0.1	CHP	2	716.158	-22.98	-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	/	1	716.008	-38.85	-13	Pass
716.1	726	0.1	CHP	2	716.158	-37.75	-13	Pass

## 7. Form731

### 7.1 Form731\_Power

#### 7.1.1 Test Result

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	0.1734	0.0140	ppm	4M57G7D	27H	22.39
17	5	706.5	713.5	0.1306	0.0151	ppm	4M61W7D	27H	21.16
17	10	709	711	0.1633	0.0147	ppm	9M11G7D	27H	22.13
17	10	709	711	0.1439	0.0155	ppm	9M08W7D	27H	21.58

### 7.2 Form731\_ERP

#### 7.2.1 Test Result

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	0.0536	0.0140	ppm	4M57G7D	27H	17.29
17	5	706.5	713.5	0.0404	0.0151	ppm	4M61W7D	27H	16.06
17	10	709	711	0.0505	0.0147	ppm	9M11G7D	27H	17.03
17	10	709	711	0.0445	0.0155	ppm	9M08W7D	27H	16.48