

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12\_1.4MHz\_ERP

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	699.7	1	0	23.82	5.29	26.96	<=34.77	Pass	
			2	24.05	5.29	27.19	<=34.77	Pass	
			5	23.81	5.29	26.95	<=34.77	Pass	
		3	0	24.02	5.29	27.16	<=34.77	Pass	
			2	23.90	5.29	27.04	<=34.77	Pass	
			3	23.82	5.29	26.96	<=34.77	Pass	
	6	0	22.95	5.29	26.09	<=34.77	Pass		
	707.5	1	0	24.21	5.29	27.35	<=34.77	Pass	
			2	23.87	5.29	27.01	<=34.77	Pass	
			5	23.83	5.29	26.97	<=34.77	Pass	
		3	0	23.89	5.29	27.03	<=34.77	Pass	
			2	23.99	5.29	27.13	<=34.77	Pass	
			3	23.99	5.29	27.13	<=34.77	Pass	
	6	0	22.98	5.29	26.12	<=34.77	Pass		
	715.3	1	0	24.04	5.29	27.18	<=34.77	Pass	
			2	24.14	5.29	27.28	<=34.77	Pass	
			5	23.86	5.29	27.00	<=34.77	Pass	
		3	0	23.83	5.29	26.97	<=34.77	Pass	
			2	23.84	5.29	26.98	<=34.77	Pass	
			3	23.88	5.29	27.02	<=34.77	Pass	
	6	0	22.88	5.29	26.02	<=34.77	Pass		
	16QAM	699.7	1	0	23.45	5.29	26.59	<=34.77	Pass
				2	23.10	5.29	26.24	<=34.77	Pass
				5	23.18	5.29	26.32	<=34.77	Pass
3			0	22.94	5.29	26.08	<=34.77	Pass	
			2	22.96	5.29	26.10	<=34.77	Pass	
			3	22.98	5.29	26.12	<=34.77	Pass	
6		0	22.02	5.29	25.16	<=34.77	Pass		
707.5		1	0	23.36	5.29	26.50	<=34.77	Pass	
			2	23.21	5.29	26.35	<=34.77	Pass	
			5	23.31	5.29	26.45	<=34.77	Pass	
		3	0	23.06	5.29	26.20	<=34.77	Pass	
			2	23.18	5.29	26.32	<=34.77	Pass	
			3	23.02	5.29	26.16	<=34.77	Pass	
6		0	22.08	5.29	25.22	<=34.77	Pass		
715.3		1	0	23.00	5.29	26.14	<=34.77	Pass	
			2	23.24	5.29	26.38	<=34.77	Pass	
			5	23.25	5.29	26.39	<=34.77	Pass	
		3	0	23.06	5.29	26.20	<=34.77	Pass	
			2	22.92	5.29	26.06	<=34.77	Pass	
			3	22.93	5.29	26.07	<=34.77	Pass	
6		0	22.05	5.29	25.19	<=34.77	Pass		
64QAM		699.7	1	0	22.93	5.29	26.07	<=34.77	Pass
				2	23.00	5.29	26.14	<=34.77	Pass
				5	23.00	5.29	26.14	<=34.77	Pass
	3		0	23.05	5.29	26.19	<=34.77	Pass	

	707.5	6	2	22.98	5.29	26.12	<=34.77	Pass
			3	23.06	5.29	26.20	<=34.77	Pass
			0	21.96	5.29	25.10	<=34.77	Pass
		1	0	23.09	5.29	26.23	<=34.77	Pass
			2	23.03	5.29	26.17	<=34.77	Pass
			5	23.03	5.29	26.17	<=34.77	Pass
	3	0	23.20	5.29	26.34	<=34.77	Pass	
		2	23.05	5.29	26.19	<=34.77	Pass	
		3	23.05	5.29	26.19	<=34.77	Pass	
	6	0	22.03	5.29	25.17	<=34.77	Pass	
	715.3	1	0	23.11	5.29	26.25	<=34.77	Pass
			2	22.98	5.29	26.12	<=34.77	Pass
			5	23.07	5.29	26.21	<=34.77	Pass
		3	0	22.98	5.29	26.12	<=34.77	Pass
			2	22.84	5.29	25.98	<=34.77	Pass
			3	22.88	5.29	26.02	<=34.77	Pass
		6	0	21.90	5.29	25.04	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B12\_3MHz\_ERP

### 1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	700.5	1	0	23.95	5.29	27.09	<=34.77	Pass		
			7	23.96	5.29	27.10	<=34.77	Pass		
			14	23.83	5.29	26.97	<=34.77	Pass		
		8	0	22.87	5.29	26.01	<=34.77	Pass		
			4	22.87	5.29	26.01	<=34.77	Pass		
			7	22.94	5.29	26.08	<=34.77	Pass		
		15	0	22.92	5.29	26.06	<=34.77	Pass		
		707.5	1	0	23.88	5.29	27.02	<=34.77	Pass	
				7	24.12	5.29	27.26	<=34.77	Pass	
	14			24.08	5.29	27.22	<=34.77	Pass		
	8		0	22.98	5.29	26.12	<=34.77	Pass		
			4	23.01	5.29	26.15	<=34.77	Pass		
			7	22.97	5.29	26.11	<=34.77	Pass		
	15	0	22.97	5.29	26.11	<=34.77	Pass			
	714.5	1	0	23.96	5.29	27.10	<=34.77	Pass		
			7	23.91	5.29	27.05	<=34.77	Pass		
			14	23.76	5.29	26.90	<=34.77	Pass		
		8	0	22.96	5.29	26.10	<=34.77	Pass		
			4	22.99	5.29	26.13	<=34.77	Pass		
			7	22.83	5.29	25.97	<=34.77	Pass		
		15	0	22.94	5.29	26.08	<=34.77	Pass		
		16QAM	700.5	1	0	23.32	5.29	26.46	<=34.77	Pass
					7	23.01	5.29	26.15	<=34.77	Pass
	14				22.99	5.29	26.13	<=34.77	Pass	
8	0			22.02	5.29	25.16	<=34.77	Pass		
	4			21.99	5.29	25.13	<=34.77	Pass		
	7			21.94	5.29	25.08	<=34.77	Pass		
15	0			21.93	5.29	25.07	<=34.77	Pass		

64QAM	707.5	1	0	23.26	5.29	26.40	<=34.77	Pass	
			7	23.31	5.29	26.45	<=34.77	Pass	
			14	23.39	5.29	26.53	<=34.77	Pass	
		8	0	21.99	5.29	25.13	<=34.77	Pass	
			4	22.04	5.29	25.18	<=34.77	Pass	
			7	22.05	5.29	25.19	<=34.77	Pass	
	15	0	21.97	5.29	25.11	<=34.77	Pass		
	714.5	1	0	23.24	5.29	26.38	<=34.77	Pass	
			7	23.25	5.29	26.39	<=34.77	Pass	
			14	23.24	5.29	26.38	<=34.77	Pass	
		8	0	22.03	5.29	25.17	<=34.77	Pass	
			4	21.96	5.29	25.10	<=34.77	Pass	
			7	22.01	5.29	25.15	<=34.77	Pass	
	15	0	22.06	5.29	25.20	<=34.77	Pass		
	64QAM	700.5	1	0	23.12	5.29	26.26	<=34.77	Pass
				7	23.01	5.29	26.15	<=34.77	Pass
				14	22.79	5.29	25.93	<=34.77	Pass
			8	0	21.88	5.29	25.02	<=34.77	Pass
4				22.00	5.29	25.14	<=34.77	Pass	
7				22.00	5.29	25.14	<=34.77	Pass	
15		0	22.03	5.29	25.17	<=34.77	Pass		
707.5		1	0	23.02	5.29	26.16	<=34.77	Pass	
			7	23.10	5.29	26.24	<=34.77	Pass	
			14	23.03	5.29	26.17	<=34.77	Pass	
		8	0	22.01	5.29	25.15	<=34.77	Pass	
			4	22.08	5.29	25.22	<=34.77	Pass	
			7	21.96	5.29	25.10	<=34.77	Pass	
15		0	21.99	5.29	25.13	<=34.77	Pass		
714.5		1	0	23.06	5.29	26.20	<=34.77	Pass	
			7	23.06	5.29	26.20	<=34.77	Pass	
			14	23.01	5.29	26.15	<=34.77	Pass	
		8	0	21.98	5.29	25.12	<=34.77	Pass	
	4		21.93	5.29	25.07	<=34.77	Pass		
	7		21.97	5.29	25.11	<=34.77	Pass		
15	0	22.00	5.29	25.14	<=34.77	Pass			

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.3 B12\_5MHz\_ERP

#### 1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.95	5.29	27.09	<=34.77	Pass
			13	23.91	5.29	27.05	<=34.77	Pass
			24	23.79	5.29	26.93	<=34.77	Pass
		12	0	22.90	5.29	26.04	<=34.77	Pass
			6	23.02	5.29	26.16	<=34.77	Pass
			13	22.86	5.29	26.00	<=34.77	Pass
	25	0	22.97	5.29	26.11	<=34.77	Pass	
	707.5	1	0	23.89	5.29	27.03	<=34.77	Pass
			13	24.07	5.29	27.21	<=34.77	Pass
24			23.95	5.29	27.09	<=34.77	Pass	

	713.5	12	0	22.93	5.29	26.07	<=34.77	Pass	
			6	23.00	5.29	26.14	<=34.77	Pass	
			13	22.97	5.29	26.11	<=34.77	Pass	
		25	0	23.04	5.29	26.18	<=34.77	Pass	
			1	0	23.95	5.29	27.09	<=34.77	Pass
				13	23.88	5.29	27.02	<=34.77	Pass
	24	23.81		5.29	26.95	<=34.77	Pass		
	12	0	23.00	5.29	26.14	<=34.77	Pass		
		6	22.99	5.29	26.13	<=34.77	Pass		
		13	22.84	5.29	25.98	<=34.77	Pass		
	25	0	23.03	5.29	26.17	<=34.77	Pass		
		16QAM	701.5	1	0	23.14	5.29	26.28	<=34.77
13					23.16	5.29	26.30	<=34.77	Pass
24	23.08				5.29	26.22	<=34.77	Pass	
12	0	21.99		5.29	25.13	<=34.77	Pass		
	6	21.94		5.29	25.08	<=34.77	Pass		
	13	21.98		5.29	25.12	<=34.77	Pass		
25	0	21.98		5.29	25.12	<=34.77	Pass		
	707.5	1		0	23.17	5.29	26.31	<=34.77	Pass
				13	23.38	5.29	26.52	<=34.77	Pass
24			23.03	5.29	26.17	<=34.77	Pass		
12	0	22.09	5.29	25.23	<=34.77	Pass			
	6	21.99	5.29	25.13	<=34.77	Pass			
	13	22.05	5.29	25.19	<=34.77	Pass			
25	0	21.92	5.29	25.06	<=34.77	Pass			
	713.5	1	0	23.25	5.29	26.39	<=34.77	Pass	
			13	23.09	5.29	26.23	<=34.77	Pass	
24			23.01	5.29	26.15	<=34.77	Pass		
12	0	21.95	5.29	25.09	<=34.77	Pass			
	6	21.98	5.29	25.12	<=34.77	Pass			
	13	21.91	5.29	25.05	<=34.77	Pass			
25	0	22.08	5.29	25.22	<=34.77	Pass			
	64QAM	701.5	1	0	22.98	5.29	26.12	<=34.77	Pass
				13	22.94	5.29	26.08	<=34.77	Pass
24				22.80	5.29	25.94	<=34.77	Pass	
12	0		21.95	5.29	25.09	<=34.77	Pass		
	6		21.97	5.29	25.11	<=34.77	Pass		
	13		21.87	5.29	25.01	<=34.77	Pass		
25	0		21.90	5.29	25.04	<=34.77	Pass		
	707.5		1	0	23.18	5.29	26.32	<=34.77	Pass
				13	23.06	5.29	26.20	<=34.77	Pass
24		23.01		5.29	26.15	<=34.77	Pass		
12	0	22.01	5.29	25.15	<=34.77	Pass			
	6	22.09	5.29	25.23	<=34.77	Pass			
	13	21.88	5.29	25.02	<=34.77	Pass			
25	0	21.93	5.29	25.07	<=34.77	Pass			
	713.5	1	0	23.12	5.29	26.26	<=34.77	Pass	
			13	22.95	5.29	26.09	<=34.77	Pass	
24			22.82	5.29	25.96	<=34.77	Pass		
12	0	22.08	5.29	25.22	<=34.77	Pass			
	6	21.99	5.29	25.13	<=34.77	Pass			
	13	21.90	5.29	25.04	<=34.77	Pass			
25	0	22.03	5.29	25.17	<=34.77	Pass			

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.4 B12\_10MHz\_ERP

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	704	1	0	23.94	5.29	27.08	<=34.77	Pass		
			25	23.91	5.29	27.05	<=34.77	Pass		
			49	24.04	5.29	27.18	<=34.77	Pass		
		25	0	22.92	5.29	26.06	<=34.77	Pass		
			13	23.00	5.29	26.14	<=34.77	Pass		
			25	22.95	5.29	26.09	<=34.77	Pass		
		50	0	23.02	5.29	26.16	<=34.77	Pass		
		707.5	1	0	23.79	5.29	26.93	<=34.77	Pass	
				25	24.01	5.29	27.15	<=34.77	Pass	
	49			23.78	5.29	26.92	<=34.77	Pass		
	25		0	23.04	5.29	26.18	<=34.77	Pass		
			13	23.09	5.29	26.23	<=34.77	Pass		
			25	22.97	5.29	26.11	<=34.77	Pass		
	50		0	23.00	5.29	26.14	<=34.77	Pass		
	711		1	0	24.00	5.29	27.14	<=34.77	Pass	
				25	23.91	5.29	27.05	<=34.77	Pass	
		49		23.82	5.29	26.96	<=34.77	Pass		
		25	0	23.02	5.29	26.16	<=34.77	Pass		
			13	23.10	5.29	26.24	<=34.77	Pass		
			25	22.87	5.29	26.01	<=34.77	Pass		
		50	0	22.97	5.29	26.11	<=34.77	Pass		
		16QAM	704	1	0	23.16	5.29	26.30	<=34.77	Pass
					25	23.09	5.29	26.23	<=34.77	Pass
	49				23.36	5.29	26.50	<=34.77	Pass	
25	0			22.00	5.29	25.14	<=34.77	Pass		
	13			21.89	5.29	25.03	<=34.77	Pass		
	25			21.96	5.29	25.10	<=34.77	Pass		
50	0			22.01	5.29	25.15	<=34.77	Pass		
707.5	1			0	23.17	5.29	26.31	<=34.77	Pass	
				25	23.37	5.29	26.51	<=34.77	Pass	
			49	23.36	5.29	26.50	<=34.77	Pass		
	25		0	22.04	5.29	25.18	<=34.77	Pass		
			13	21.95	5.29	25.09	<=34.77	Pass		
			25	22.00	5.29	25.14	<=34.77	Pass		
	50		0	22.07	5.29	25.21	<=34.77	Pass		
	711		1	0	23.23	5.29	26.37	<=34.77	Pass	
				25	23.29	5.29	26.43	<=34.77	Pass	
49				23.17	5.29	26.31	<=34.77	Pass		
25			0	22.09	5.29	25.23	<=34.77	Pass		
			13	22.08	5.29	25.22	<=34.77	Pass		
			25	21.97	5.29	25.11	<=34.77	Pass		
50			0	22.13	5.29	25.27	<=34.77	Pass		
64QAM			704	1	0	23.34	5.29	26.48	<=34.77	Pass
					25	23.17	5.29	26.31	<=34.77	Pass
	49				23.12	5.29	26.26	<=34.77	Pass	
	25	0		22.00	5.29	25.14	<=34.77	Pass		
		13		22.04	5.29	25.18	<=34.77	Pass		
		25		22.03	5.29	25.17	<=34.77	Pass		
	50	0		22.02	5.29	25.16	<=34.77	Pass		

	707.5	1	0	23.04	5.29	26.18	<=34.77	Pass
			25	23.18	5.29	26.32	<=34.77	Pass
			49	23.05	5.29	26.19	<=34.77	Pass
		25	0	22.14	5.29	25.28	<=34.77	Pass
			13	22.08	5.29	25.22	<=34.77	Pass
			25	22.04	5.29	25.18	<=34.77	Pass
	50	0	22.00	5.29	25.14	<=34.77	Pass	
	711	1	0	23.24	5.29	26.38	<=34.77	Pass
			25	23.04	5.29	26.18	<=34.77	Pass
			49	22.83	5.29	25.97	<=34.77	Pass
		25	0	22.16	5.29	25.30	<=34.77	Pass
			13	22.07	5.29	25.21	<=34.77	Pass
			25	21.93	5.29	25.07	<=34.77	Pass
		50	0	22.10	5.29	25.24	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 B12\_1.4MHz

#### 2.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	16.100	0.0230	-2.5 to 2.5	Pass
					3.85	19.600	0.0280	-2.5 to 2.5	Pass
					4.43	11.400	0.0163	-2.5 to 2.5	Pass
				-30	3.85	16.200	0.0232	-2.5 to 2.5	Pass
				-20	3.85	13.700	0.0196	-2.5 to 2.5	Pass
				-10	3.85	8.700	0.0124	-2.5 to 2.5	Pass
				0	3.85	8.200	0.0117	-2.5 to 2.5	Pass
				10	3.85	6.500	0.0093	-2.5 to 2.5	Pass
				30	3.85	5.600	0.0080	-2.5 to 2.5	Pass
				40	3.85	5.000	0.0071	-2.5 to 2.5	Pass
				50	3.85	3.300	0.0047	-2.5 to 2.5	Pass
				707.5	6	0	20	3.27	-11.800
	3.85	-10.300	-0.0146					-2.5 to 2.5	Pass
	4.43	-24.100	-0.0341					-2.5 to 2.5	Pass
	-30	3.85	-20.600				-0.0291	-2.5 to 2.5	Pass
	-20	3.85	-19.200				-0.0271	-2.5 to 2.5	Pass
	-10	3.85	-8.400				-0.0119	-2.5 to 2.5	Pass
	0	3.85	-9.100				-0.0129	-2.5 to 2.5	Pass
	10	3.85	-7.200				-0.0102	-2.5 to 2.5	Pass
	30	3.85	-4.600				-0.0065	-2.5 to 2.5	Pass
	40	3.85	-2.400				-0.0034	-2.5 to 2.5	Pass
	50	3.85	-4.100				-0.0058	-2.5 to 2.5	Pass
	715.3	6	0				20	3.27	10.300
				3.85	18.300	0.0256		-2.5 to 2.5	Pass
				4.43	9.500	0.0133		-2.5 to 2.5	Pass
				-30	3.85	14.200	0.0199	-2.5 to 2.5	Pass
				-20	3.85	9.700	0.0136	-2.5 to 2.5	Pass
-10				3.85	9.500	0.0133	-2.5 to 2.5	Pass	
0	3.85	8.300	0.0116	-2.5 to 2.5	Pass				

				10	3.85	6.700	0.0094	-2.5 to 2.5	Pass
				30	3.85	5.900	0.0082	-2.5 to 2.5	Pass
				40	3.85	3.600	0.0050	-2.5 to 2.5	Pass
				50	3.85	3.900	0.0055	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	3.600	0.0051	-2.5 to 2.5	Pass
					3.85	4.300	0.0061	-2.5 to 2.5	Pass
					4.43	3.300	0.0047	-2.5 to 2.5	Pass
				-30	3.85	2.500	0.0036	-2.5 to 2.5	Pass
				-20	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.400	0.0006	-2.5 to 2.5	Pass
				0	3.85	2.800	0.0040	-2.5 to 2.5	Pass
				10	3.85	0.400	0.0006	-2.5 to 2.5	Pass
				30	3.85	1.500	0.0021	-2.5 to 2.5	Pass
				40	3.85	1.200	0.0017	-2.5 to 2.5	Pass
	50	3.85	1.300	0.0019	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.27	-2.600	-0.0037	-2.5 to 2.5	Pass
					3.85	-2.500	-0.0035	-2.5 to 2.5	Pass
					4.43	-1.100	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-0.400	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-1.000	-0.0014	-2.5 to 2.5	Pass
				10	3.85	0.700	0.0010	-2.5 to 2.5	Pass
				30	3.85	-1.000	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-0.800	-0.0011	-2.5 to 2.5	Pass
	50	3.85	0.400	0.0006	-2.5 to 2.5	Pass			
	715.3	6	0	20	3.27	2.400	0.0034	-2.5 to 2.5	Pass
					3.85	2.700	0.0038	-2.5 to 2.5	Pass
					4.43	3.400	0.0048	-2.5 to 2.5	Pass
				-30	3.85	2.200	0.0031	-2.5 to 2.5	Pass
				-20	3.85	0.800	0.0011	-2.5 to 2.5	Pass
				-10	3.85	1.800	0.0025	-2.5 to 2.5	Pass
				0	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				10	3.85	0.900	0.0013	-2.5 to 2.5	Pass
30				3.85	2.700	0.0038	-2.5 to 2.5	Pass	
40				3.85	0.900	0.0013	-2.5 to 2.5	Pass	
50	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass				
64QAM	699.7	6	0	20	3.27	188.000	0.2687	-2.5 to 2.5	Pass
					3.85	-192.200	-0.2747	-2.5 to 2.5	Pass
					4.43	126.300	0.1805	-2.5 to 2.5	Pass
				-30	3.85	185.500	0.2651	-2.5 to 2.5	Pass
				-20	3.85	-189.600	-0.2710	-2.5 to 2.5	Pass
				-10	3.85	-189.600	-0.2710	-2.5 to 2.5	Pass
				0	3.85	-191.900	-0.2743	-2.5 to 2.5	Pass
				10	3.85	156.300	0.2234	-2.5 to 2.5	Pass
				30	3.85	192.700	0.2754	-2.5 to 2.5	Pass
				40	3.85	-16.900	-0.0242	-2.5 to 2.5	Pass
	50	3.85	148.600	0.2124	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.27	194.800	0.2753	-2.5 to 2.5	Pass
					3.85	-188.600	-0.2666	-2.5 to 2.5	Pass
					4.43	105.300	0.1488	-2.5 to 2.5	Pass
				-30	3.85	-176.100	-0.2489	-2.5 to 2.5	Pass
				-20	3.85	193.800	0.2739	-2.5 to 2.5	Pass
				-10	3.85	193.300	0.2732	-2.5 to 2.5	Pass
				0	3.85	195.100	0.2758	-2.5 to 2.5	Pass
				10	3.85	154.100	0.2178	-2.5 to 2.5	Pass

	715.3	6	0	30	3.85	191.900	0.2712	-2.5 to 2.5	Pass
				40	3.85	181.200	0.2561	-2.5 to 2.5	Pass
				50	3.85	108.100	0.1528	-2.5 to 2.5	Pass
				20	3.27	190.900	0.2669	-2.5 to 2.5	Pass
					3.85	122.300	0.1710	-2.5 to 2.5	Pass
					4.43	-145.600	-0.2036	-2.5 to 2.5	Pass
				-30	3.85	111.600	0.1560	-2.5 to 2.5	Pass
				-20	3.85	-183.300	-0.2563	-2.5 to 2.5	Pass
				-10	3.85	193.100	0.2700	-2.5 to 2.5	Pass
				0	3.85	-29.000	-0.0405	-2.5 to 2.5	Pass
				10	3.85	190.100	0.2658	-2.5 to 2.5	Pass
				30	3.85	140.400	0.1963	-2.5 to 2.5	Pass
				40	3.85	-149.600	-0.2091	-2.5 to 2.5	Pass
				50	3.85	-179.400	-0.2508	-2.5 to 2.5	Pass

## 2.2 B12\_3MHz

### 2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	700.5	15	0	20	3.27	2.900	0.0041	-2.5 to 2.5	Pass			
					3.85	3.600	0.0051	-2.5 to 2.5	Pass			
					4.43	1.500	0.0021	-2.5 to 2.5	Pass			
				-30	3.85	3.200	0.0046	-2.5 to 2.5	Pass			
				-20	3.85	2.200	0.0031	-2.5 to 2.5	Pass			
				-10	3.85	0.900	0.0013	-2.5 to 2.5	Pass			
				0	3.85	1.700	0.0024	-2.5 to 2.5	Pass			
				10	3.85	1.900	0.0027	-2.5 to 2.5	Pass			
				30	3.85	2.300	0.0033	-2.5 to 2.5	Pass			
				40	3.85	1.900	0.0027	-2.5 to 2.5	Pass			
				50	3.85	0.400	0.0006	-2.5 to 2.5	Pass			
				707.5	15	0	20	3.27	1.000	0.0014	-2.5 to 2.5	Pass
								3.85	2.500	0.0035	-2.5 to 2.5	Pass
								4.43	4.200	0.0059	-2.5 to 2.5	Pass
							-30	3.85	1.300	0.0018	-2.5 to 2.5	Pass
	-20	3.85	1.100				0.0016	-2.5 to 2.5	Pass			
	-10	3.85	2.000				0.0028	-2.5 to 2.5	Pass			
	0	3.85	1.500				0.0021	-2.5 to 2.5	Pass			
	10	3.85	1.700				0.0024	-2.5 to 2.5	Pass			
	30	3.85	3.000				0.0042	-2.5 to 2.5	Pass			
	40	3.85	2.400				0.0034	-2.5 to 2.5	Pass			
	50	3.85	2.700				0.0038	-2.5 to 2.5	Pass			
	714.5	15	0				20	3.27	0.700	0.0010	-2.5 to 2.5	Pass
								3.85	1.100	0.0015	-2.5 to 2.5	Pass
								4.43	0.800	0.0011	-2.5 to 2.5	Pass
							-30	3.85	0.800	0.0011	-2.5 to 2.5	Pass
				-20	3.85	1.000	0.0014	-2.5 to 2.5	Pass			
				-10	3.85	0.400	0.0006	-2.5 to 2.5	Pass			
				0	3.85	1.700	0.0024	-2.5 to 2.5	Pass			
				10	3.85	1.400	0.0020	-2.5 to 2.5	Pass			
30				3.85	1.100	0.0015	-2.5 to 2.5	Pass				
40				3.85	2.000	0.0028	-2.5 to 2.5	Pass				



16QAM	700.5	15	0	50	3.85	0.800	0.0011	-2.5 to 2.5	Pass
				20	3.27	1.700	0.0024	-2.5 to 2.5	Pass
					3.85	1.200	0.0017	-2.5 to 2.5	Pass
					4.43	2.200	0.0031	-2.5 to 2.5	Pass
				-30	3.85	2.600	0.0037	-2.5 to 2.5	Pass
				-20	3.85	2.100	0.0030	-2.5 to 2.5	Pass
				-10	3.85	1.700	0.0024	-2.5 to 2.5	Pass
				0	3.85	0.900	0.0013	-2.5 to 2.5	Pass
				10	3.85	2.100	0.0030	-2.5 to 2.5	Pass
				30	3.85	1.500	0.0021	-2.5 to 2.5	Pass
	40	3.85	2.600	0.0037	-2.5 to 2.5	Pass			
	50	3.85	1.500	0.0021	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	0.200	0.0003	-2.5 to 2.5	Pass
					3.85	1.600	0.0023	-2.5 to 2.5	Pass
					4.43	2.200	0.0031	-2.5 to 2.5	Pass
				-30	3.85	2.200	0.0031	-2.5 to 2.5	Pass
				-20	3.85	2.000	0.0028	-2.5 to 2.5	Pass
				-10	3.85	2.800	0.0040	-2.5 to 2.5	Pass
				0	3.85	2.100	0.0030	-2.5 to 2.5	Pass
				10	3.85	2.300	0.0033	-2.5 to 2.5	Pass
				30	3.85	2.000	0.0028	-2.5 to 2.5	Pass
40				3.85	3.500	0.0049	-2.5 to 2.5	Pass	
50	3.85	1.400	0.0020	-2.5 to 2.5	Pass				
714.5	15	0	20	3.27	-0.200	-0.0003	-2.5 to 2.5	Pass	
				3.85	1.900	0.0027	-2.5 to 2.5	Pass	
				4.43	1.500	0.0021	-2.5 to 2.5	Pass	
			-30	3.85	1.200	0.0017	-2.5 to 2.5	Pass	
			-20	3.85	1.500	0.0021	-2.5 to 2.5	Pass	
			-10	3.85	1.400	0.0020	-2.5 to 2.5	Pass	
			0	3.85	1.100	0.0015	-2.5 to 2.5	Pass	
			10	3.85	0.800	0.0011	-2.5 to 2.5	Pass	
			30	3.85	0.800	0.0011	-2.5 to 2.5	Pass	
			40	3.85	0.900	0.0013	-2.5 to 2.5	Pass	
50	3.85	0.100	0.0001	-2.5 to 2.5	Pass				
64QAM	700.5	15	0	20	3.27	-13.700	-0.0196	-2.5 to 2.5	Pass
					3.85	43.700	0.0624	-2.5 to 2.5	Pass
					4.43	-60.100	-0.0858	-2.5 to 2.5	Pass
				-30	3.85	155.700	0.2223	-2.5 to 2.5	Pass
				-20	3.85	-105.700	-0.1509	-2.5 to 2.5	Pass
				-10	3.85	78.200	0.1116	-2.5 to 2.5	Pass
				0	3.85	37.400	0.0534	-2.5 to 2.5	Pass
				10	3.85	-43.200	-0.0617	-2.5 to 2.5	Pass
				30	3.85	44.100	0.0630	-2.5 to 2.5	Pass
				40	3.85	-108.300	-0.1546	-2.5 to 2.5	Pass
	50	3.85	98.100	0.1400	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	-56.200	-0.0794	-2.5 to 2.5	Pass
					3.85	-13.700	-0.0194	-2.5 to 2.5	Pass
					4.43	-31.500	-0.0445	-2.5 to 2.5	Pass
				-30	3.85	158.000	0.2233	-2.5 to 2.5	Pass
				-20	3.85	65.100	0.0920	-2.5 to 2.5	Pass
				-10	3.85	152.000	0.2148	-2.5 to 2.5	Pass
				0	3.85	-6.200	-0.0088	-2.5 to 2.5	Pass
				10	3.85	49.500	0.0700	-2.5 to 2.5	Pass
				30	3.85	42.700	0.0604	-2.5 to 2.5	Pass
				40	3.85	38.200	0.0540	-2.5 to 2.5	Pass
50	3.85	-0.700	-0.0010	-2.5 to 2.5	Pass				

	714.5	15	0	20	3.27	46.200	0.0647	-2.5 to 2.5	Pass				
					3.85	-22.800	-0.0319	-2.5 to 2.5	Pass				
					4.43	40.600	0.0568	-2.5 to 2.5	Pass				
								-30	3.85	-29.600	-0.0414	-2.5 to 2.5	Pass
								-20	3.85	-22.500	-0.0315	-2.5 to 2.5	Pass
								-10	3.85	-4.600	-0.0064	-2.5 to 2.5	Pass
								0	3.85	-54.700	-0.0766	-2.5 to 2.5	Pass
								10	3.85	32.800	0.0459	-2.5 to 2.5	Pass
								30	3.85	-71.500	-0.1001	-2.5 to 2.5	Pass
								40	3.85	-100.000	-0.1400	-2.5 to 2.5	Pass
								50	3.85	-24.900	-0.0348	-2.5 to 2.5	Pass

### 2.3 B12\_5MHz

#### 2.3.1 Test Result

Band: 12 / Bandwidth: 5MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	701.5	25	0	20	3.27	1.400	0.0020	-2.5 to 2.5	Pass			
					3.85	-0.100	-0.0001	-2.5 to 2.5	Pass			
					4.43	1.200	0.0017	-2.5 to 2.5	Pass			
				-30	3.85	2.000	0.0029	-2.5 to 2.5	Pass			
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass			
				-10	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass			
				0	3.85	0.400	0.0006	-2.5 to 2.5	Pass			
				10	3.85	-0.800	-0.0011	-2.5 to 2.5	Pass			
				30	3.85	0.500	0.0007	-2.5 to 2.5	Pass			
				40	3.85	2.400	0.0034	-2.5 to 2.5	Pass			
				50	3.85	0.900	0.0013	-2.5 to 2.5	Pass			
				707.5	25	0	20	3.27	-0.100	-0.0001	-2.5 to 2.5	Pass
								3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
								4.43	1.600	0.0023	-2.5 to 2.5	Pass
							-30	3.85	0.800	0.0011	-2.5 to 2.5	Pass
	-20	3.85	1.300				0.0018	-2.5 to 2.5	Pass			
	-10	3.85	1.700				0.0024	-2.5 to 2.5	Pass			
	0	3.85	0.100				0.0001	-2.5 to 2.5	Pass			
	10	3.85	1.100				0.0016	-2.5 to 2.5	Pass			
	30	3.85	1.000				0.0014	-2.5 to 2.5	Pass			
	40	3.85	0.500				0.0007	-2.5 to 2.5	Pass			
	50	3.85	1.000				0.0014	-2.5 to 2.5	Pass			
	713.5	25	0				20	3.27	1.600	0.0022	-2.5 to 2.5	Pass
								3.85	0.400	0.0006	-2.5 to 2.5	Pass
								4.43	1.600	0.0022	-2.5 to 2.5	Pass
							-30	3.85	1.600	0.0022	-2.5 to 2.5	Pass
				-20	3.85	1.300	0.0018	-2.5 to 2.5	Pass			
				-10	3.85	1.500	0.0021	-2.5 to 2.5	Pass			
				0	3.85	0.500	0.0007	-2.5 to 2.5	Pass			
				10	3.85	1.100	0.0015	-2.5 to 2.5	Pass			
30				3.85	0.400	0.0006	-2.5 to 2.5	Pass				
40				3.85	-0.600	-0.0008	-2.5 to 2.5	Pass				
50				3.85	0.700	0.0010	-2.5 to 2.5	Pass				
16QAM				701.5	25	0	20	3.27	1.900	0.0027	-2.5 to 2.5	Pass
								3.85	1.600	0.0023	-2.5 to 2.5	Pass

64QAM	707.5	25	0		4.43	1.300	0.0019	-2.5 to 2.5	Pass
				-30	3.85	1.400	0.0020	-2.5 to 2.5	Pass
				-20	3.85	1.500	0.0021	-2.5 to 2.5	Pass
				-10	3.85	1.200	0.0017	-2.5 to 2.5	Pass
				0	3.85	0.400	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				30	3.85	2.000	0.0029	-2.5 to 2.5	Pass
				40	3.85	1.600	0.0023	-2.5 to 2.5	Pass
				50	3.85	0.300	0.0004	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	1.700	0.0024	-2.5 to 2.5	Pass
					3.85	1.300	0.0018	-2.5 to 2.5	Pass
					4.43	0.600	0.0008	-2.5 to 2.5	Pass
				-30	3.85	0.600	0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.800	0.0011	-2.5 to 2.5	Pass
				-10	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				0	3.85	0.600	0.0008	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				30	3.85	1.800	0.0025	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	1.600	0.0022	-2.5 to 2.5	Pass
					3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
					4.43	0.700	0.0010	-2.5 to 2.5	Pass
				-30	3.85	2.200	0.0031	-2.5 to 2.5	Pass
				-20	3.85	1.800	0.0025	-2.5 to 2.5	Pass
				-10	3.85	0.600	0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				10	3.85	1.900	0.0027	-2.5 to 2.5	Pass
				30	3.85	-0.700	-0.0010	-2.5 to 2.5	Pass
	701.5	25	0	20	3.27	16.800	0.0239	-2.5 to 2.5	Pass
					3.85	-14.900	-0.0212	-2.5 to 2.5	Pass
					4.43	-19.600	-0.0279	-2.5 to 2.5	Pass
				-30	3.85	-27.400	-0.0391	-2.5 to 2.5	Pass
				-20	3.85	3.800	0.0054	-2.5 to 2.5	Pass
				-10	3.85	7.000	0.0100	-2.5 to 2.5	Pass
0				3.85	-18.400	-0.0262	-2.5 to 2.5	Pass	
10				3.85	-31.100	-0.0443	-2.5 to 2.5	Pass	
30				3.85	-39.000	-0.0556	-2.5 to 2.5	Pass	
707.5		25	0	20	3.27	7.300	0.0103	-2.5 to 2.5	Pass
					3.85	-29.200	-0.0413	-2.5 to 2.5	Pass
					4.43	-44.100	-0.0623	-2.5 to 2.5	Pass
				-30	3.85	-4.700	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	10.900	0.0154	-2.5 to 2.5	Pass
				-10	3.85	-45.500	-0.0643	-2.5 to 2.5	Pass
713.5	25	0	20	3.85	22.300	0.0315	-2.5 to 2.5	Pass	
				10	3.85	4.100	0.0058	-2.5 to 2.5	Pass
				30	3.85	16.800	0.0237	-2.5 to 2.5	Pass
			40	3.85	-0.500	-0.0007	-2.5 to 2.5	Pass	
			50	3.85	3.900	0.0055	-2.5 to 2.5	Pass	
			3.27	-32.000	-0.0448	-2.5 to 2.5	Pass		
713.5	25	0	20	3.85	8.700	0.0122	-2.5 to 2.5	Pass	
				4.43	-34.900	-0.0489	-2.5 to 2.5	Pass	

				-30	3.85	-23.500	-0.0329	-2.5 to 2.5	Pass
				-20	3.85	23.400	0.0328	-2.5 to 2.5	Pass
				-10	3.85	1.700	0.0024	-2.5 to 2.5	Pass
				0	3.85	-12.000	-0.0168	-2.5 to 2.5	Pass
				10	3.85	-22.600	-0.0317	-2.5 to 2.5	Pass
				30	3.85	29.800	0.0418	-2.5 to 2.5	Pass
				40	3.85	7.900	0.0111	-2.5 to 2.5	Pass
				50	3.85	-11.500	-0.0161	-2.5 to 2.5	Pass

## 2.4 B12\_10MHz

### 2.4.1 Test Result

Band: 12 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	704	50	0	20	3.27	0.100	0.0001	-2.5 to 2.5	Pass	
					3.85	0.900	0.0013	-2.5 to 2.5	Pass	
					4.43	0.900	0.0013	-2.5 to 2.5	Pass	
				-30	3.85	0.800	0.0011	-2.5 to 2.5	Pass	
					-20	3.85	0.400	0.0006	-2.5 to 2.5	Pass
						3.85	0.900	0.0013	-2.5 to 2.5	Pass
				0	3.85	1.100	0.0016	-2.5 to 2.5	Pass	
					10	3.85	0.900	0.0013	-2.5 to 2.5	Pass
				30	3.85	-1.100	-0.0016	-2.5 to 2.5	Pass	
	40	3.85	1.500		0.0021	-2.5 to 2.5	Pass			
	50	3.85	2.200		0.0031	-2.5 to 2.5	Pass			
	20	3.27	1.300		0.0018	-2.5 to 2.5	Pass			
		3.85	1.700		0.0024	-2.5 to 2.5	Pass			
		4.43	2.800	0.0040	-2.5 to 2.5	Pass				
	707.5	50	0	-30	3.85	3.100	0.0044	-2.5 to 2.5	Pass	
					-20	3.85	0.700	0.0010	-2.5 to 2.5	Pass
						3.85	2.400	0.0034	-2.5 to 2.5	Pass
				-10	3.85	1.500	0.0021	-2.5 to 2.5	Pass	
					0	3.85	2.700	0.0038	-2.5 to 2.5	Pass
				10	3.85	2.000	0.0028	-2.5 to 2.5	Pass	
					30	3.85	1.600	0.0023	-2.5 to 2.5	Pass
						3.85	2.800	0.0040	-2.5 to 2.5	Pass
					20	3.27	-0.500	-0.0007	-2.5 to 2.5	Pass
	3.85	0.700	0.0010			-2.5 to 2.5	Pass			
	4.43	0.700	0.0010	-2.5 to 2.5		Pass				
	711	50	0	-30	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass	
					-20	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
3.85						0.500	0.0007	-2.5 to 2.5	Pass	
-10				3.85	-0.500	-0.0007	-2.5 to 2.5	Pass		
				0	3.85	-0.900	-0.0013	-2.5 to 2.5	Pass	
10				3.85	0.300	0.0004	-2.5 to 2.5	Pass		
				30	3.85	0.300	0.0004	-2.5 to 2.5	Pass	
					3.85	-0.800	-0.0011	-2.5 to 2.5	Pass	
				20	3.27	1.300	0.0018	-2.5 to 2.5	Pass	
	3.85	0.800	0.0011		-2.5 to 2.5	Pass				
4.43	0.900	0.0013	-2.5 to 2.5		Pass					
16QAM	704	50	0	-30	3.85	1.300	0.0018	-2.5 to 2.5	Pass	
					3.85	2.500	0.0036	-2.5 to 2.5	Pass	

				-10	3.85	1.900	0.0027	-2.5 to 2.5	Pass			
				0	3.85	1.400	0.0020	-2.5 to 2.5	Pass			
				10	3.85	0.000	0.0000	-2.5 to 2.5	Pass			
				30	3.85	0.800	0.0011	-2.5 to 2.5	Pass			
				40	3.85	0.800	0.0011	-2.5 to 2.5	Pass			
				50	3.85	0.500	0.0007	-2.5 to 2.5	Pass			
	707.5	50	0	20	3.27	1.600	0.0023	-2.5 to 2.5	Pass			
					3.85	1.800	0.0025	-2.5 to 2.5	Pass			
					4.43	0.900	0.0013	-2.5 to 2.5	Pass			
				-30	3.85	1.400	0.0020	-2.5 to 2.5	Pass			
				-20	3.85	1.800	0.0025	-2.5 to 2.5	Pass			
				-10	3.85	0.900	0.0013	-2.5 to 2.5	Pass			
				0	3.85	1.200	0.0017	-2.5 to 2.5	Pass			
				10	3.85	1.800	0.0025	-2.5 to 2.5	Pass			
				30	3.85	2.600	0.0037	-2.5 to 2.5	Pass			
				40	3.85	2.100	0.0030	-2.5 to 2.5	Pass			
				50	3.85	1.700	0.0024	-2.5 to 2.5	Pass			
				711	50	0	20	3.27	0.300	0.0004	-2.5 to 2.5	Pass
								3.85	-0.600	-0.0008	-2.5 to 2.5	Pass
								4.43	0.800	0.0011	-2.5 to 2.5	Pass
-30	3.85	1.100	0.0015				-2.5 to 2.5	Pass				
-20	3.85	0.100	0.0001				-2.5 to 2.5	Pass				
-10	3.85	0.500	0.0007				-2.5 to 2.5	Pass				
0	3.85	0.400	0.0006				-2.5 to 2.5	Pass				
10	3.85	-1.400	-0.0020				-2.5 to 2.5	Pass				
30	3.85	0.200	0.0003				-2.5 to 2.5	Pass				
40	3.85	-0.600	-0.0008				-2.5 to 2.5	Pass				
50	3.85	2.000	0.0028				-2.5 to 2.5	Pass				
64QAM	704	50	0				20	3.27	-3.600	-0.0051	-2.5 to 2.5	Pass
								3.85	-18.700	-0.0266	-2.5 to 2.5	Pass
								4.43	-9.500	-0.0135	-2.5 to 2.5	Pass
				-30	3.85	-16.200	-0.0230	-2.5 to 2.5	Pass			
				-20	3.85	4.000	0.0057	-2.5 to 2.5	Pass			
				-10	3.85	-12.100	-0.0172	-2.5 to 2.5	Pass			
				0	3.85	-16.100	-0.0229	-2.5 to 2.5	Pass			
				10	3.85	20.200	0.0287	-2.5 to 2.5	Pass			
				30	3.85	-30.800	-0.0438	-2.5 to 2.5	Pass			
				40	3.85	17.000	0.0241	-2.5 to 2.5	Pass			
				50	3.85	-25.700	-0.0365	-2.5 to 2.5	Pass			
				707.5	50	0	20	3.27	-10.900	-0.0154	-2.5 to 2.5	Pass
								3.85	-13.700	-0.0194	-2.5 to 2.5	Pass
								4.43	35.300	0.0499	-2.5 to 2.5	Pass
	-30	3.85	9.400				0.0133	-2.5 to 2.5	Pass			
	-20	3.85	-18.300				-0.0259	-2.5 to 2.5	Pass			
	-10	3.85	8.300				0.0117	-2.5 to 2.5	Pass			
	0	3.85	10.400				0.0147	-2.5 to 2.5	Pass			
	10	3.85	-11.300				-0.0160	-2.5 to 2.5	Pass			
	30	3.85	21.300				0.0301	-2.5 to 2.5	Pass			
	40	3.85	-2.700				-0.0038	-2.5 to 2.5	Pass			
	50	3.85	8.700				0.0123	-2.5 to 2.5	Pass			
	711	50	0				20	3.27	-5.300	-0.0075	-2.5 to 2.5	Pass
								3.85	-13.100	-0.0184	-2.5 to 2.5	Pass
								4.43	-11.300	-0.0159	-2.5 to 2.5	Pass
				-30	3.85	-5.200	-0.0073	-2.5 to 2.5	Pass			
				-20	3.85	16.400	0.0231	-2.5 to 2.5	Pass			
				-10	3.85	-8.000	-0.0113	-2.5 to 2.5	Pass			

			0	3.85	17.000	0.0239	-2.5 to 2.5	Pass
			10	3.85	2.300	0.0032	-2.5 to 2.5	Pass
			30	3.85	-9.000	-0.0127	-2.5 to 2.5	Pass
			40	3.85	-30.400	-0.0428	-2.5 to 2.5	Pass
			50	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass

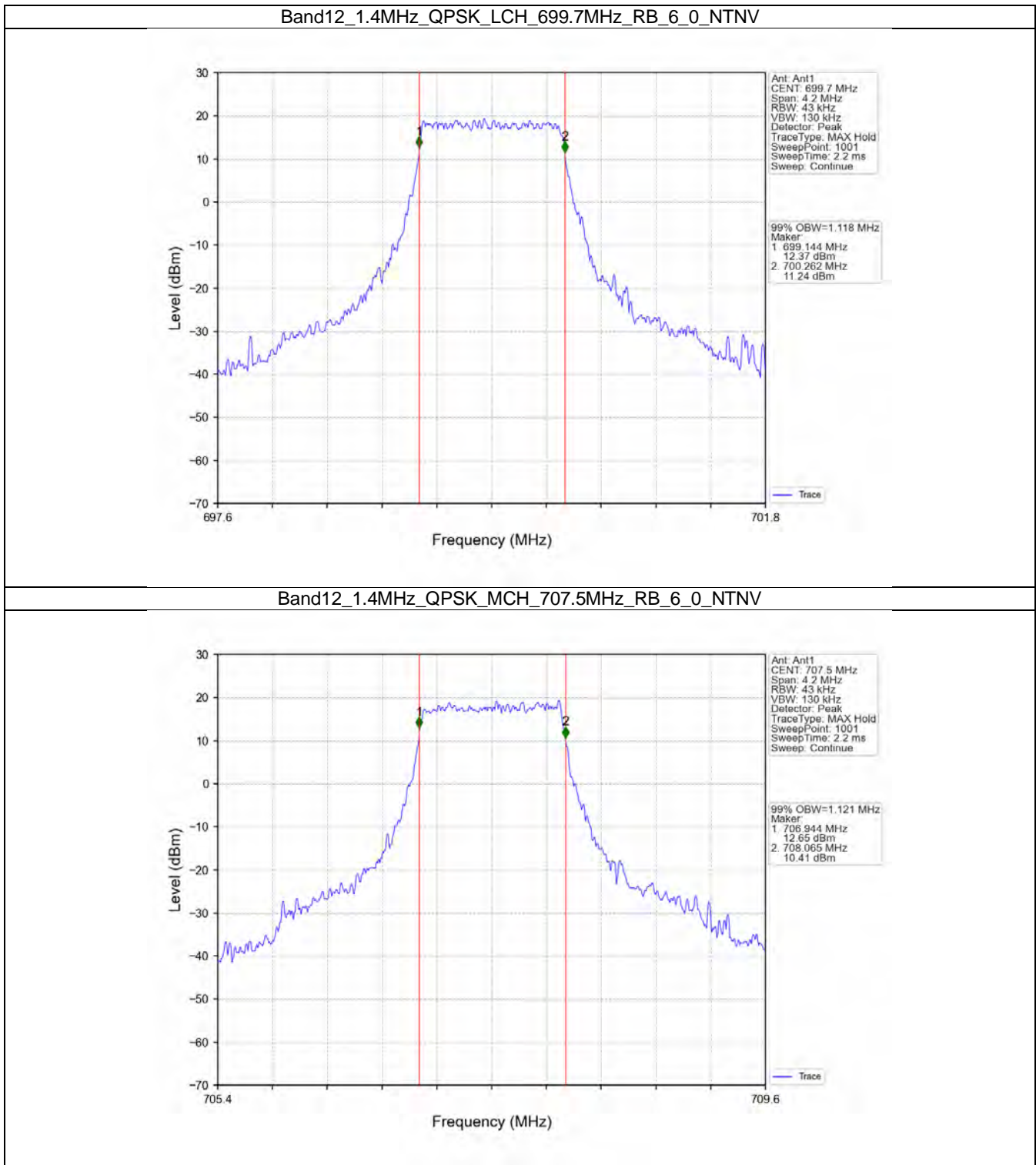
### 3. 99% & 26dB Bandwidth

#### 3.1 Band12\_OBW

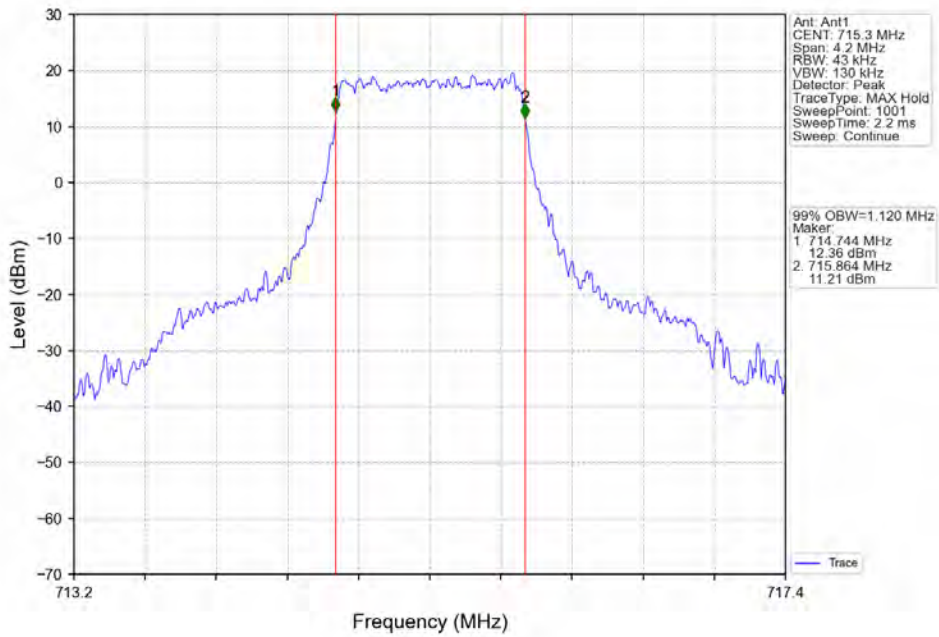
##### 3.1.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.118	/	Pass
		707.5	6	0	1.121	/	Pass
		715.3	6	0	1.120	/	Pass
	16QAM	699.7	6	0	1.131	/	Pass
		707.5	6	0	1.136	/	Pass
		715.3	6	0	1.128	/	Pass
	64QAM	699.7	6	0	1.122	/	Pass
		707.5	6	0	1.132	/	Pass
		715.3	6	0	1.127	/	Pass
3	QPSK	700.5	15	0	2.738	/	Pass
		707.5	15	0	2.734	/	Pass
		714.5	15	0	2.760	/	Pass
	16QAM	700.5	15	0	2.746	/	Pass
		707.5	15	0	2.745	/	Pass
		714.5	15	0	2.752	/	Pass
	64QAM	700.5	15	0	2.731	/	Pass
		707.5	15	0	2.740	/	Pass
		714.5	15	0	2.748	/	Pass
5	QPSK	701.5	25	0	4.555	/	Pass
		707.5	25	0	4.548	/	Pass
		713.5	25	0	4.558	/	Pass
	16QAM	701.5	25	0	4.544	/	Pass
		707.5	25	0	4.561	/	Pass
		713.5	25	0	4.573	/	Pass
	64QAM	701.5	25	0	4.541	/	Pass
		707.5	25	0	4.537	/	Pass
		713.5	25	0	4.557	/	Pass
10	QPSK	704	50	0	9.132	/	Pass
		707.5	50	0	9.055	/	Pass
		711	50	0	9.034	/	Pass
	16QAM	704	50	0	9.097	/	Pass
		707.5	50	0	9.065	/	Pass
		711	50	0	9.018	/	Pass
	64QAM	704	50	0	9.133	/	Pass
		707.5	50	0	9.061	/	Pass
		711	50	0	9.033	/	Pass

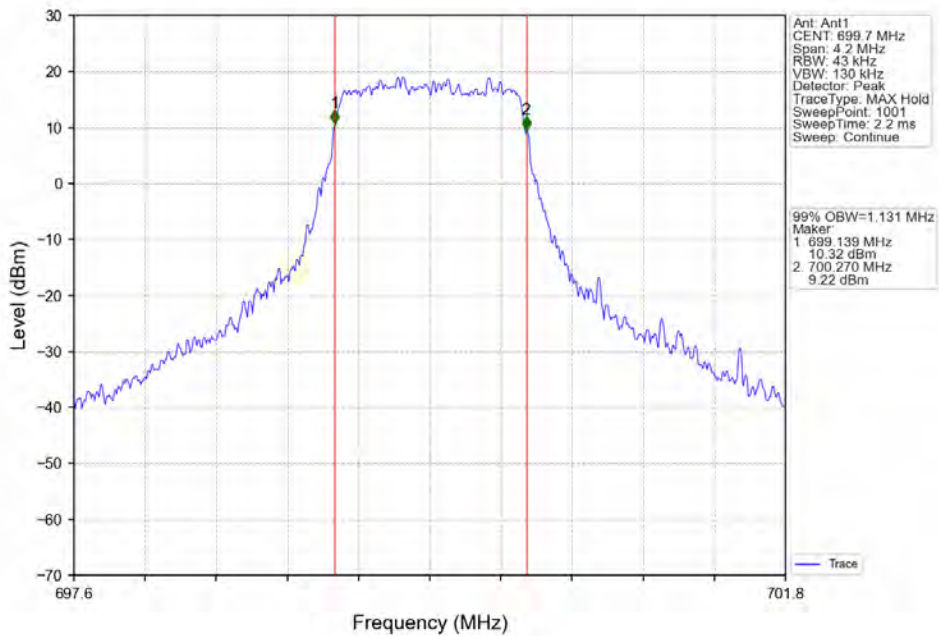
3.1.2 Test Graph



Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV

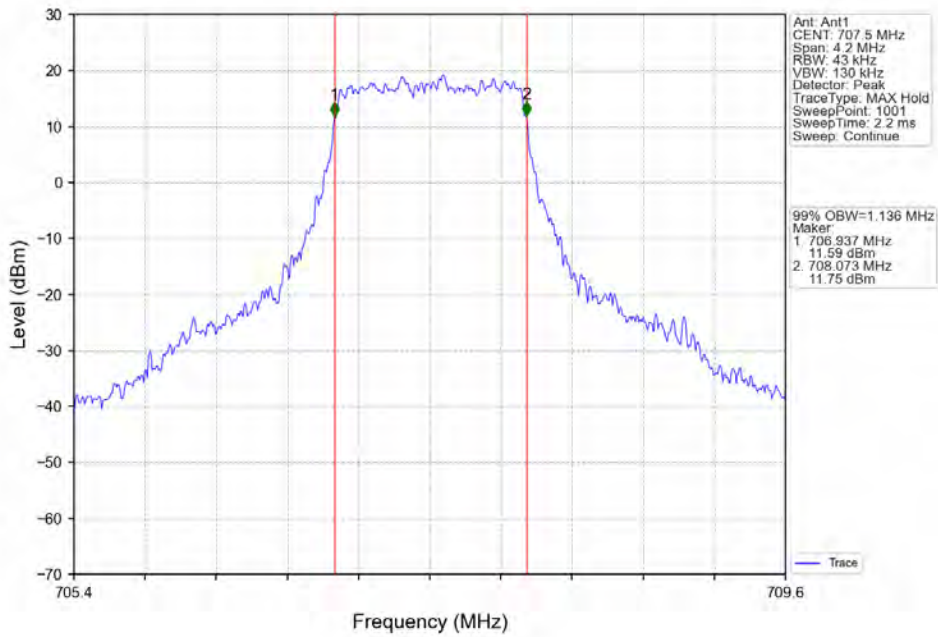


Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

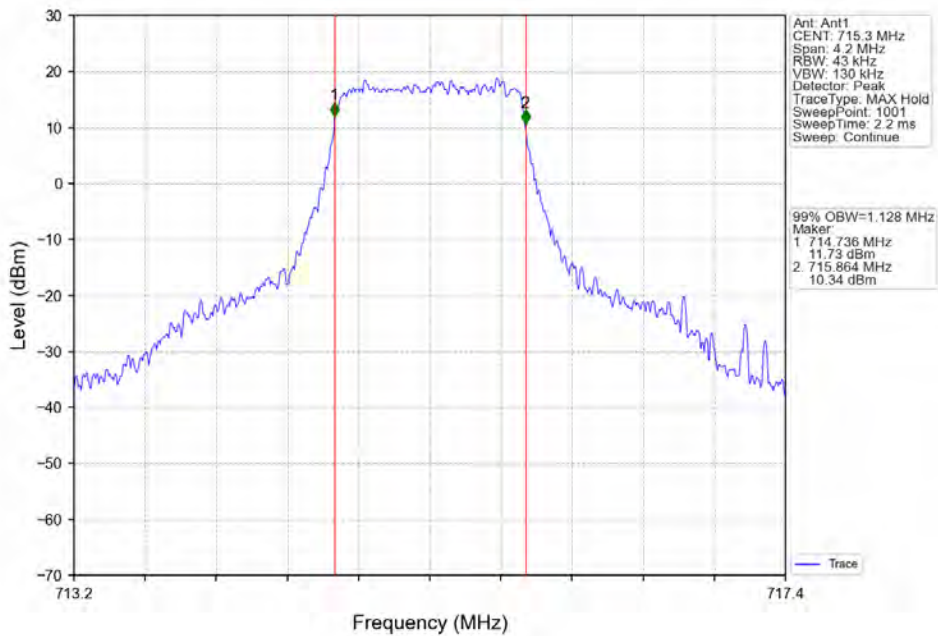




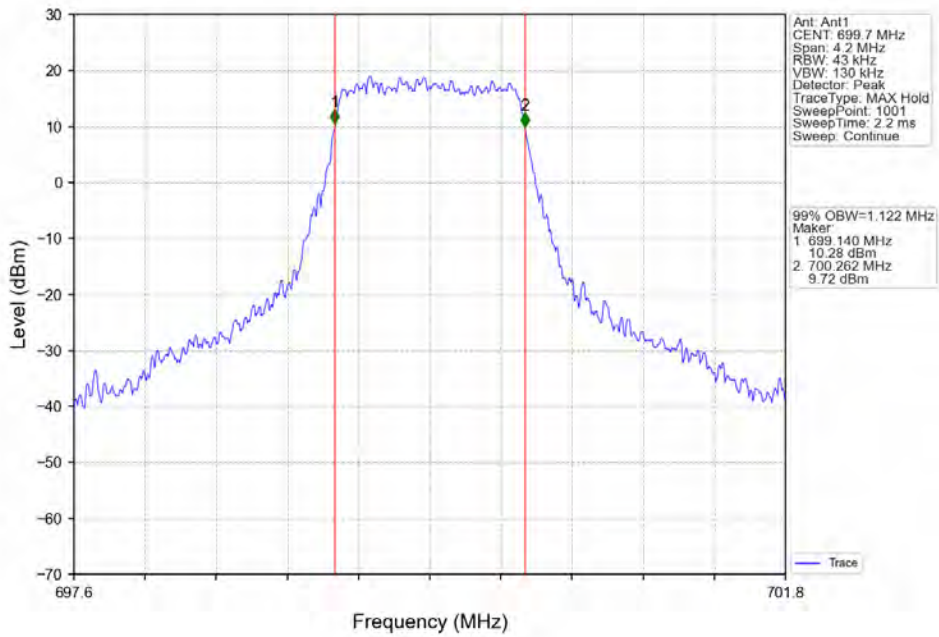
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



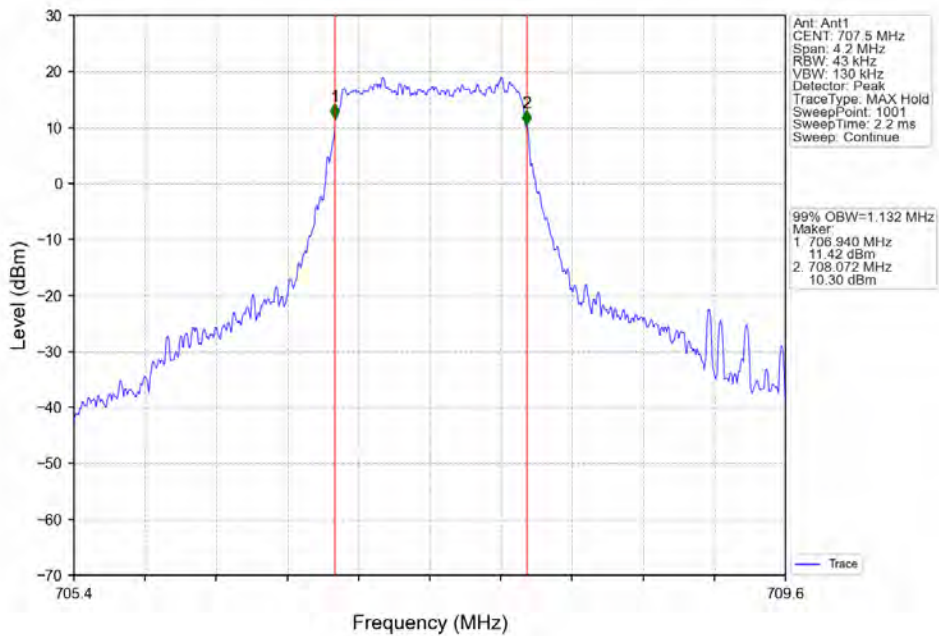
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



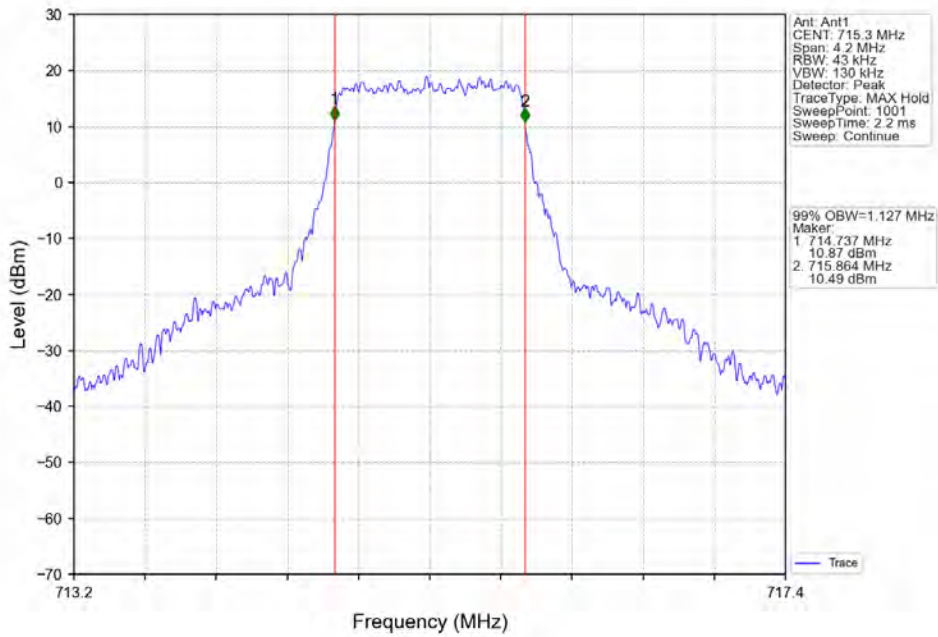
Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



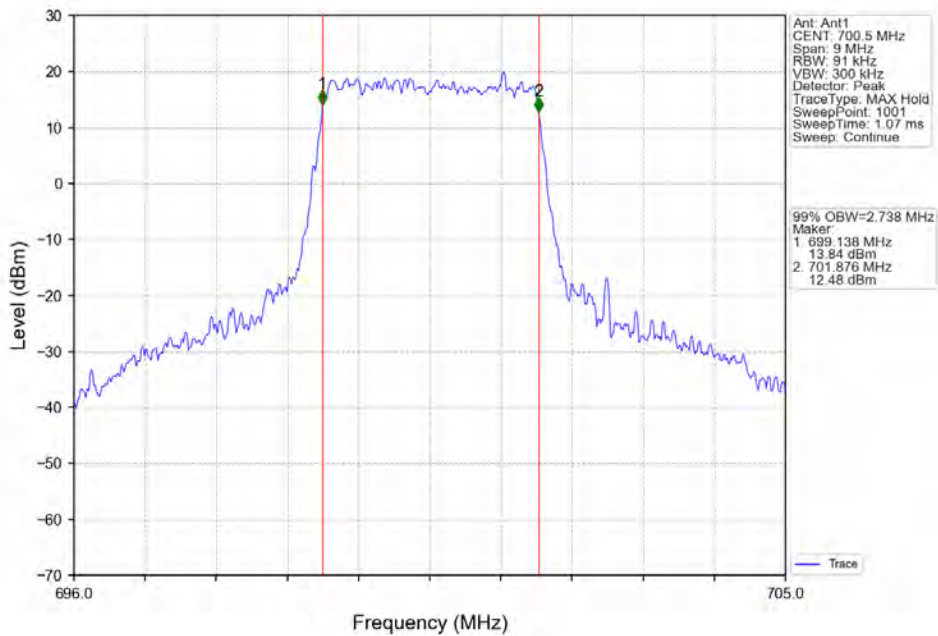
Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



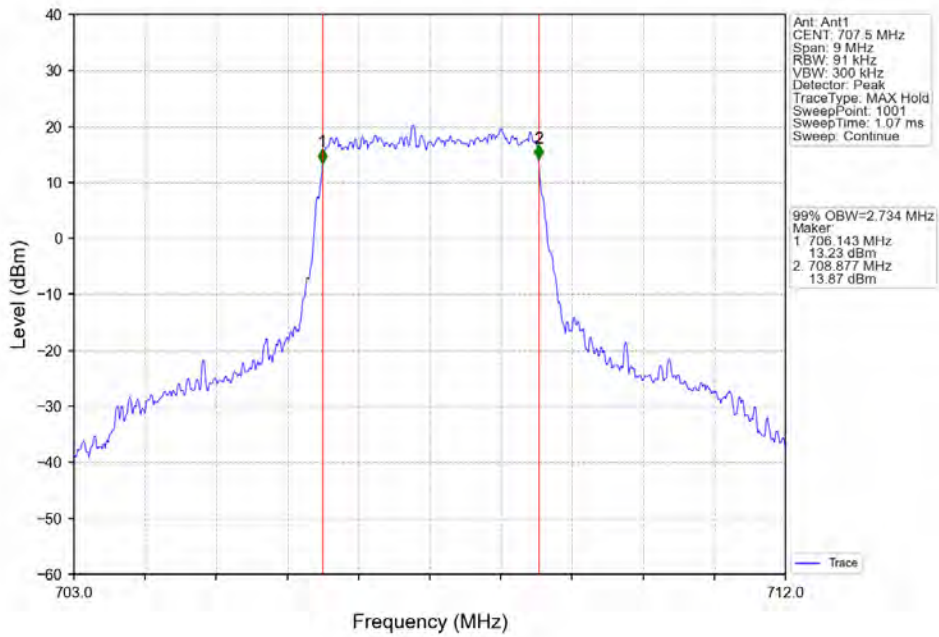
Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



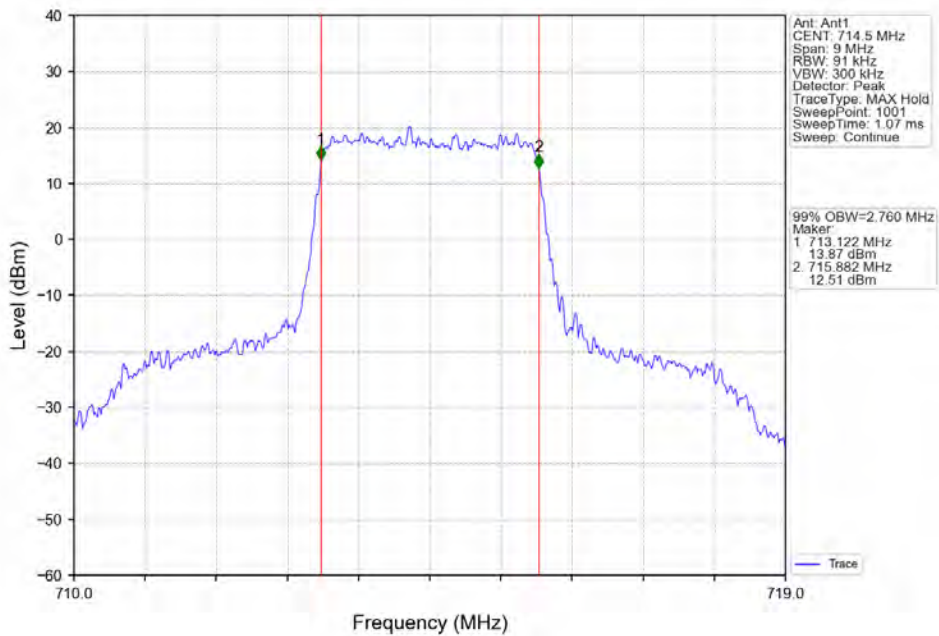
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



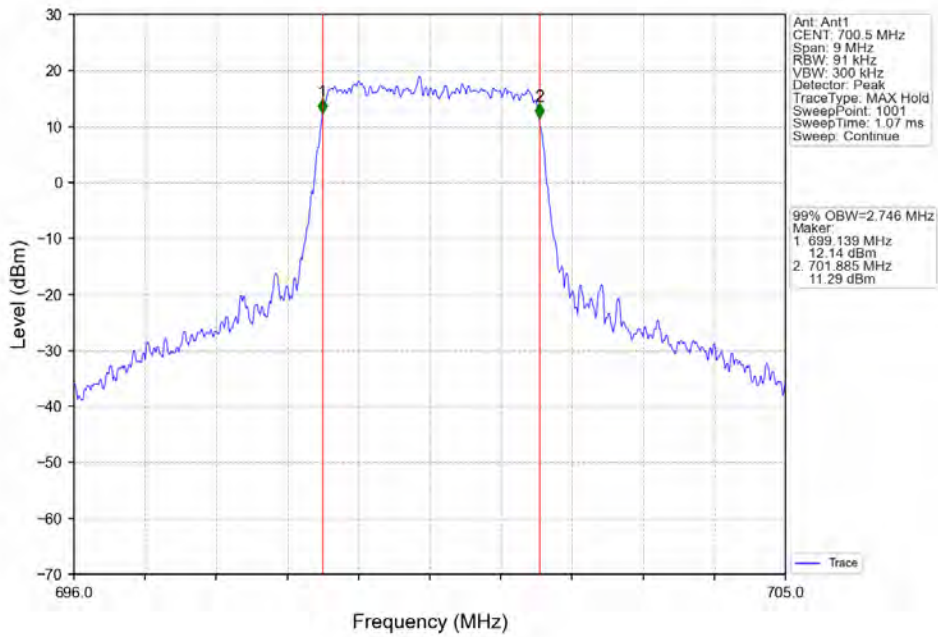
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



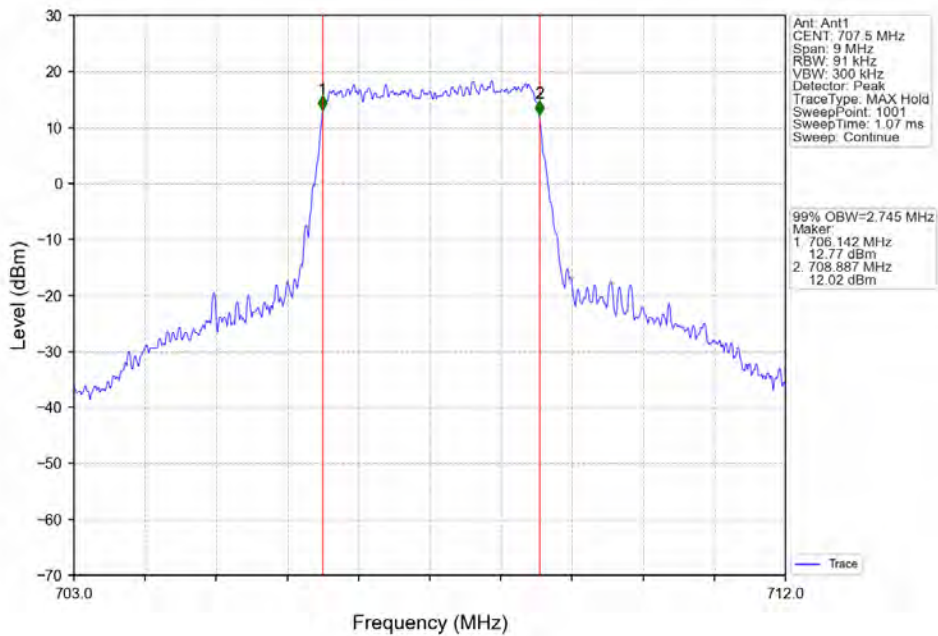
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



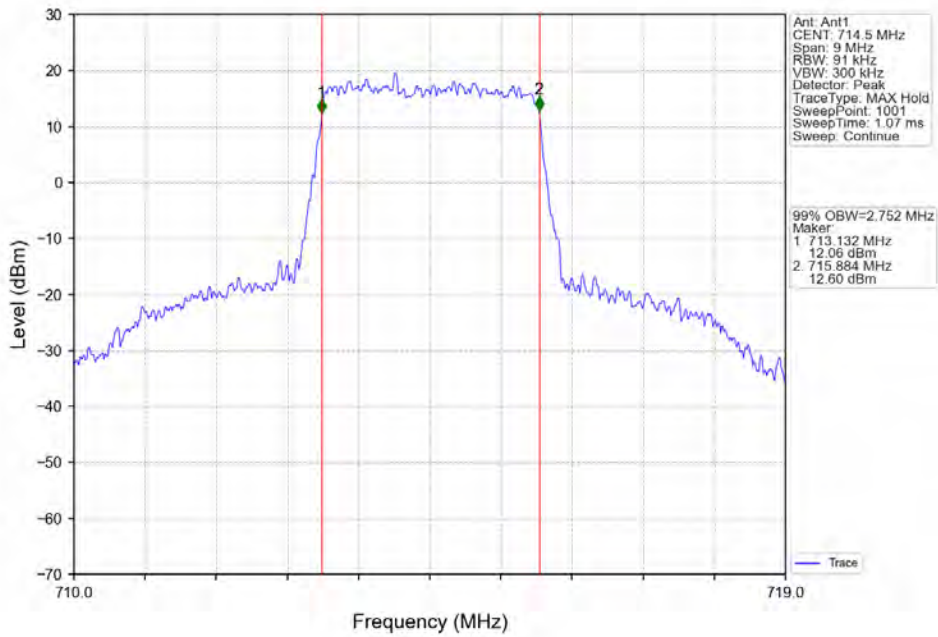
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



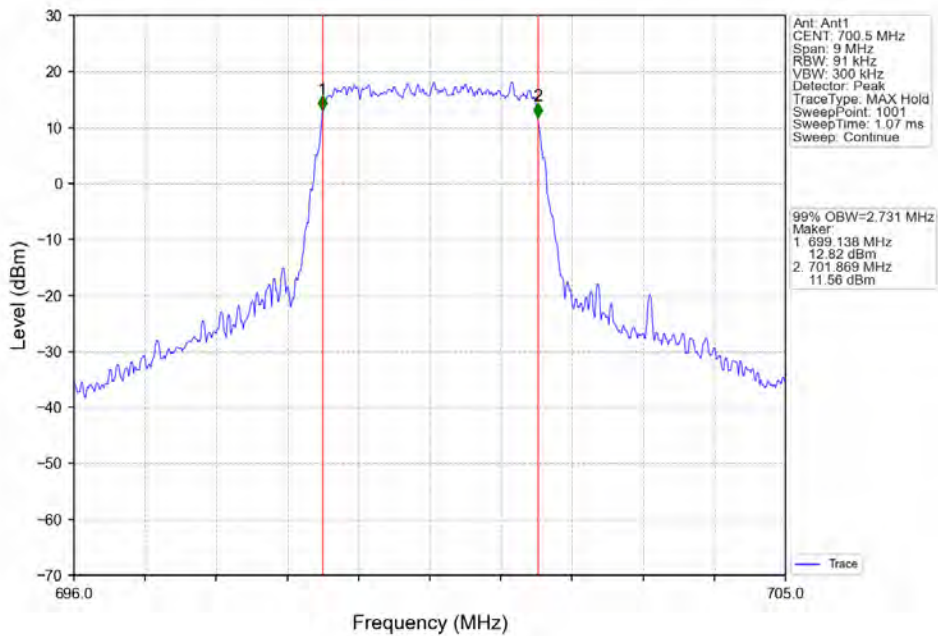
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



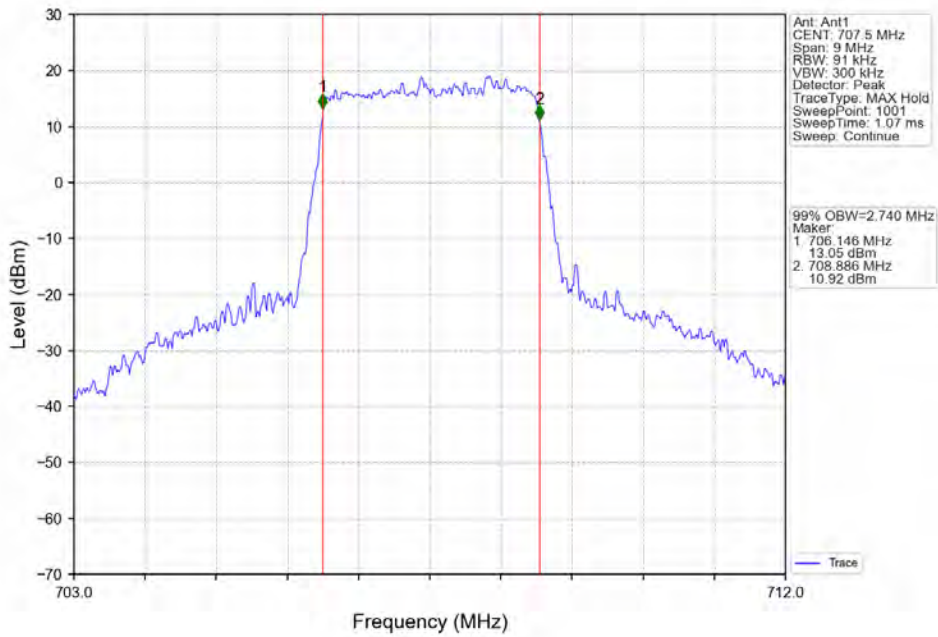
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



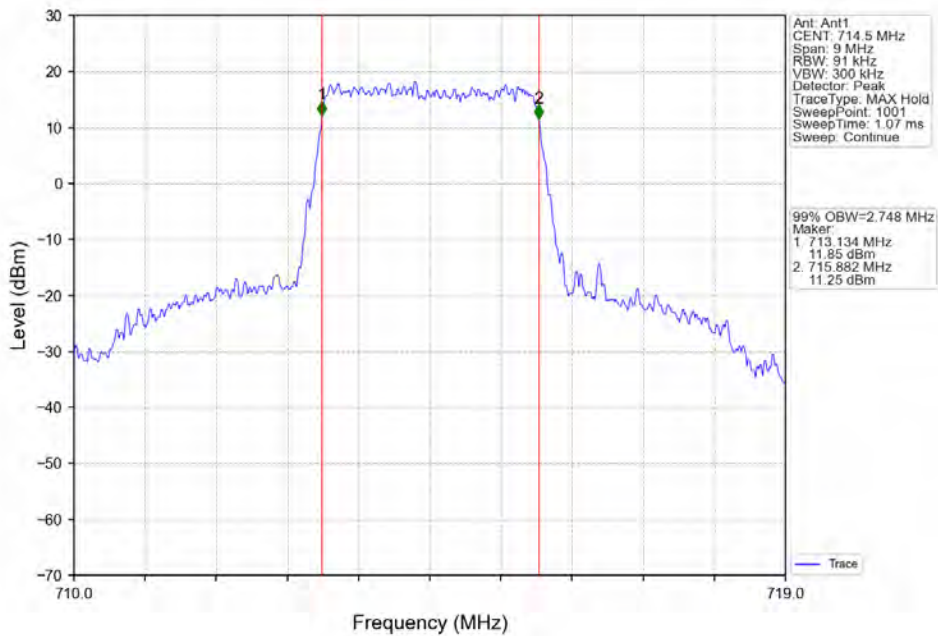
Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



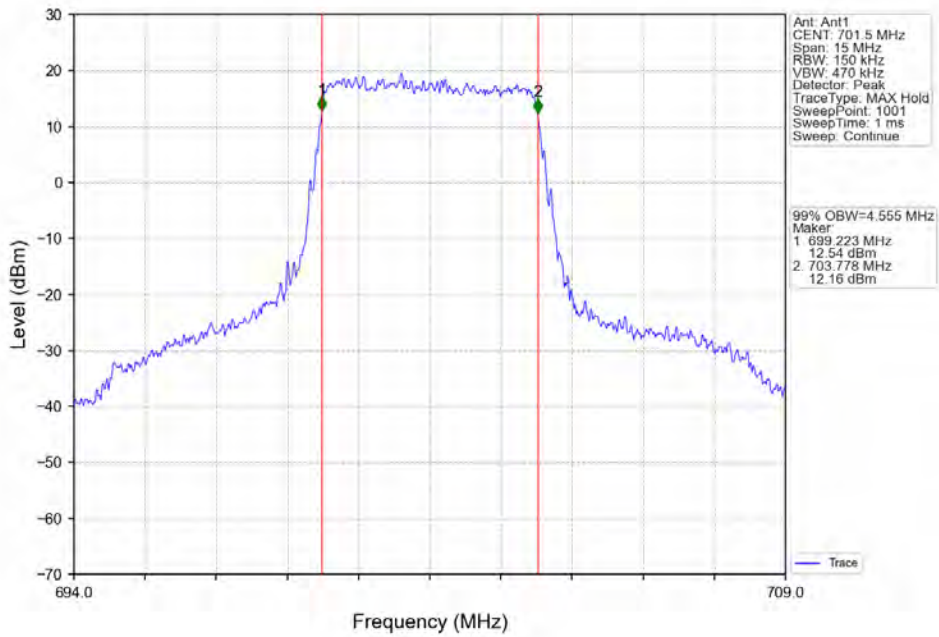
Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



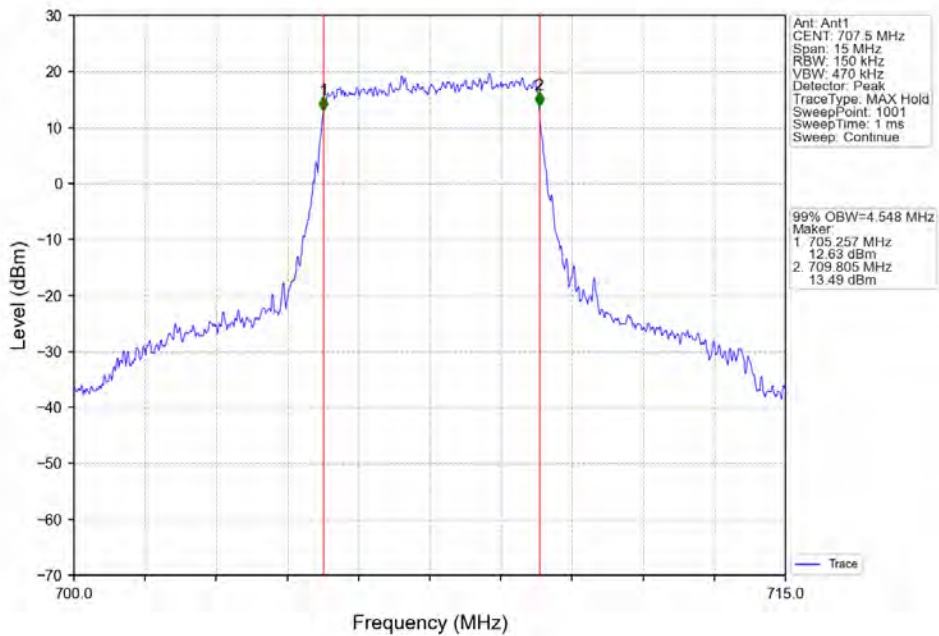
Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

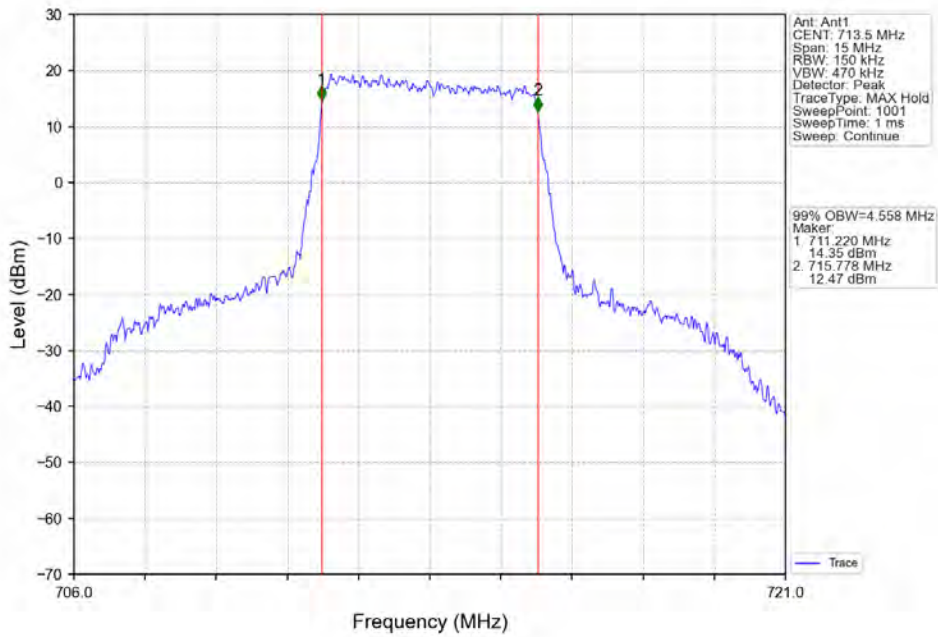


Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV

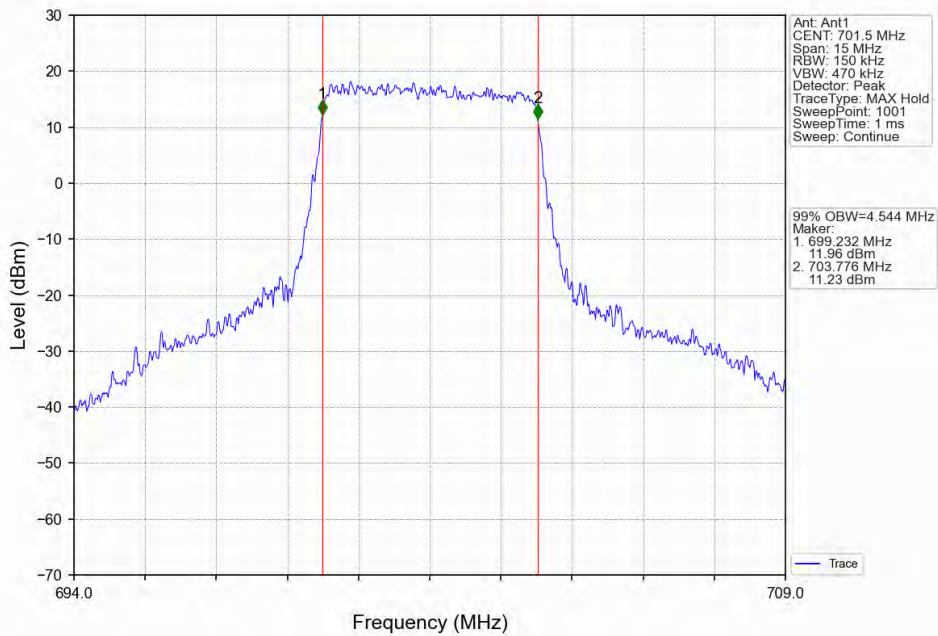




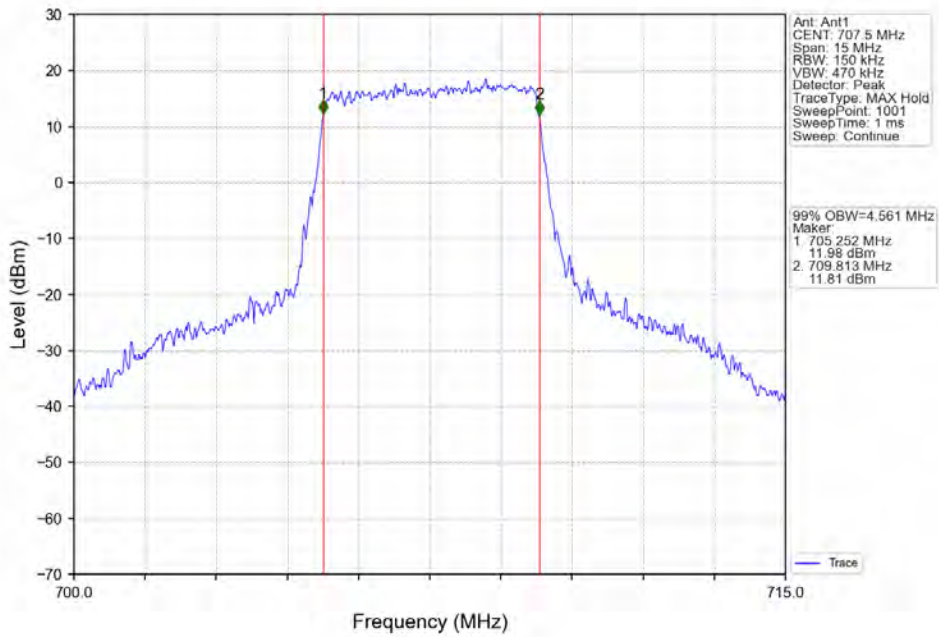
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



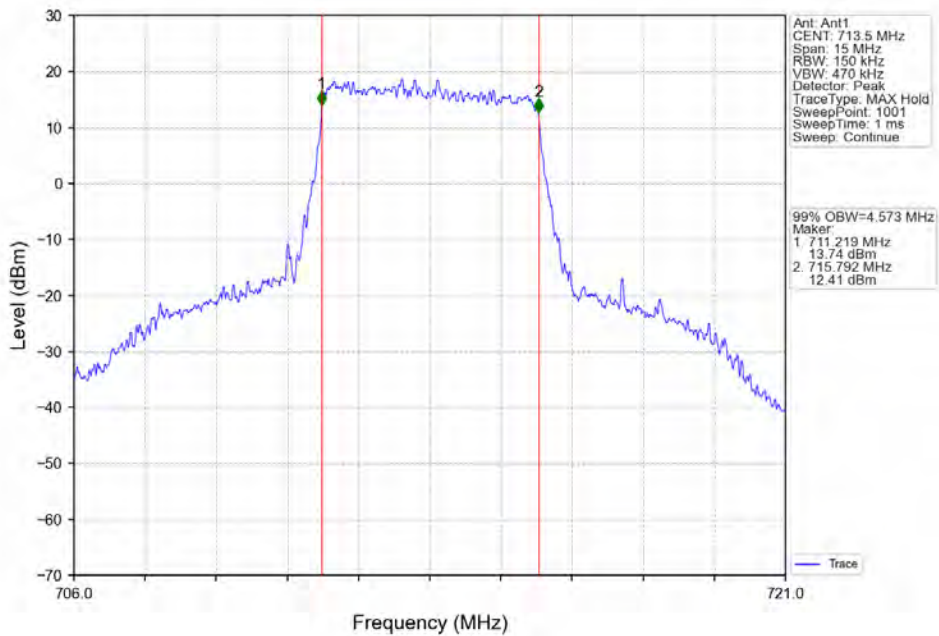
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



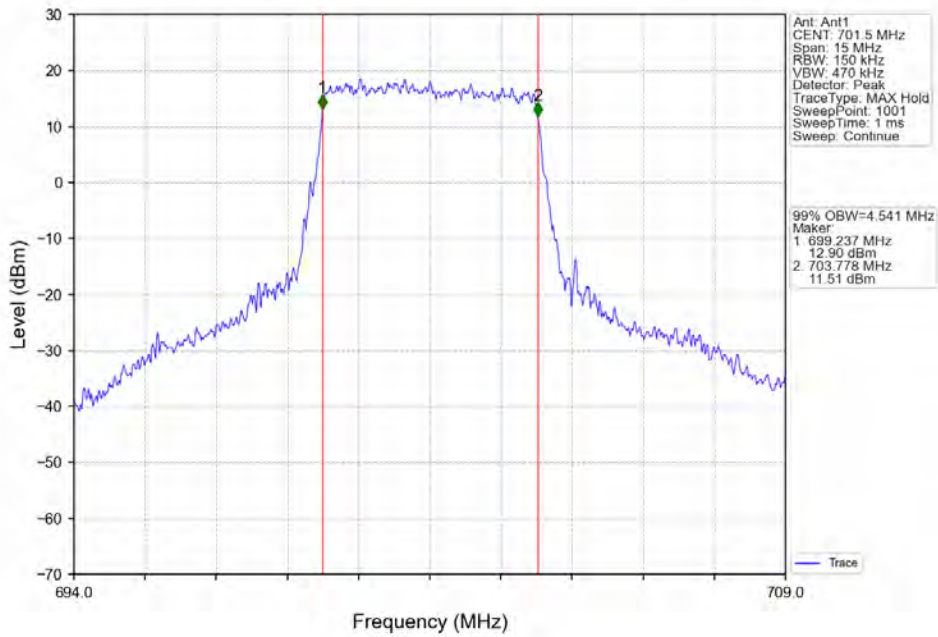
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



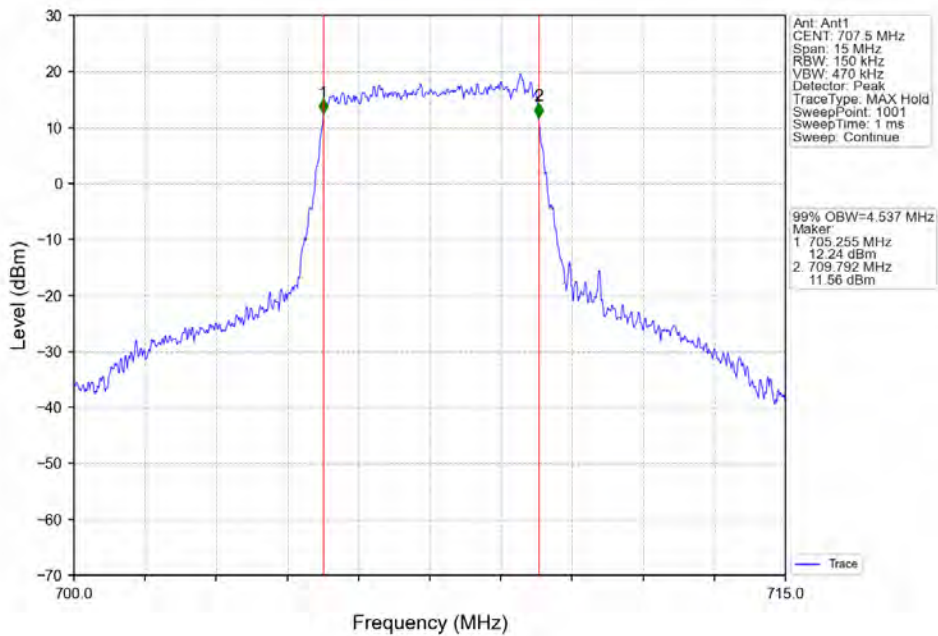
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



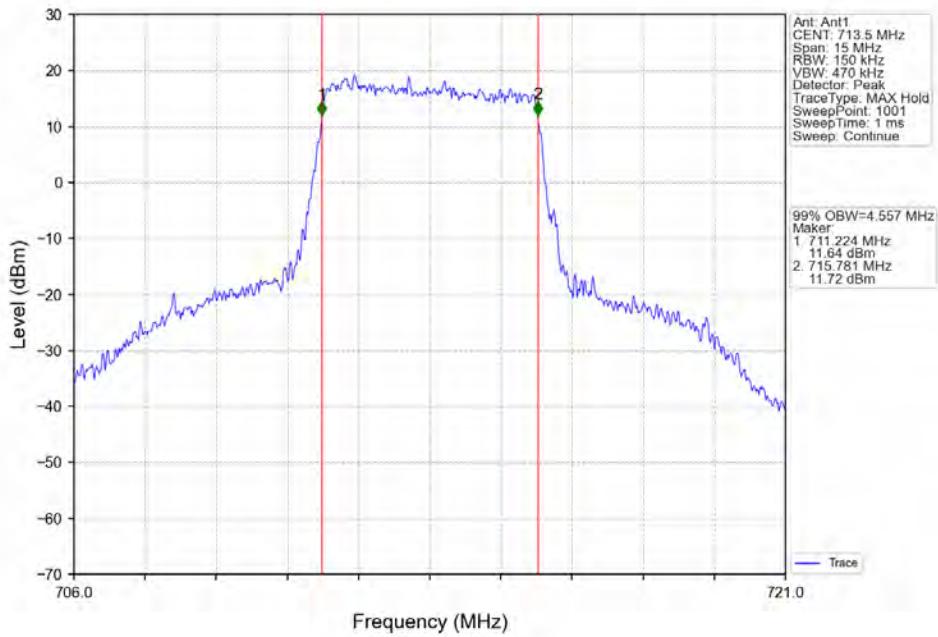
Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



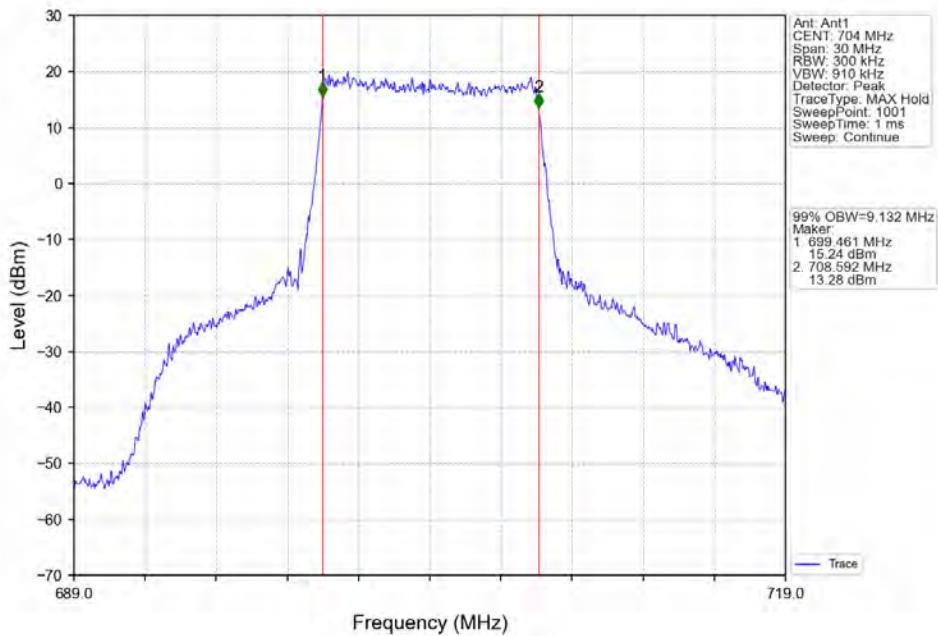
Band12\_5MHz\_64QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



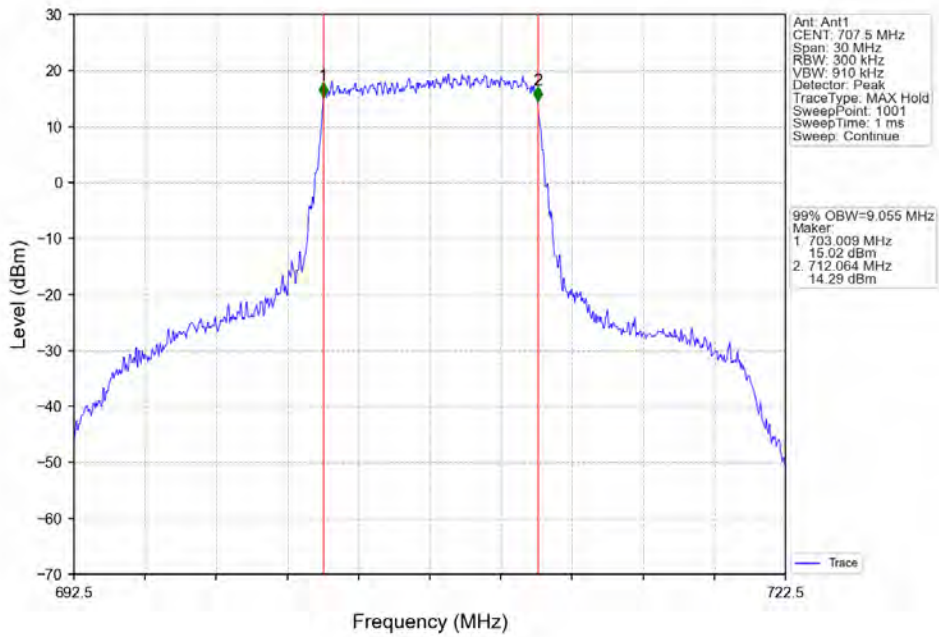
Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



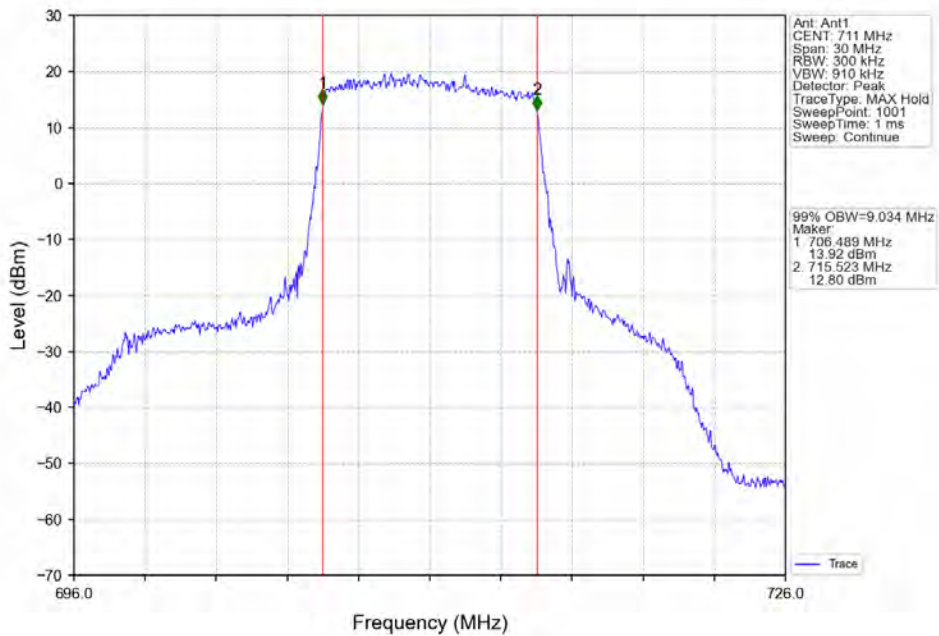
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



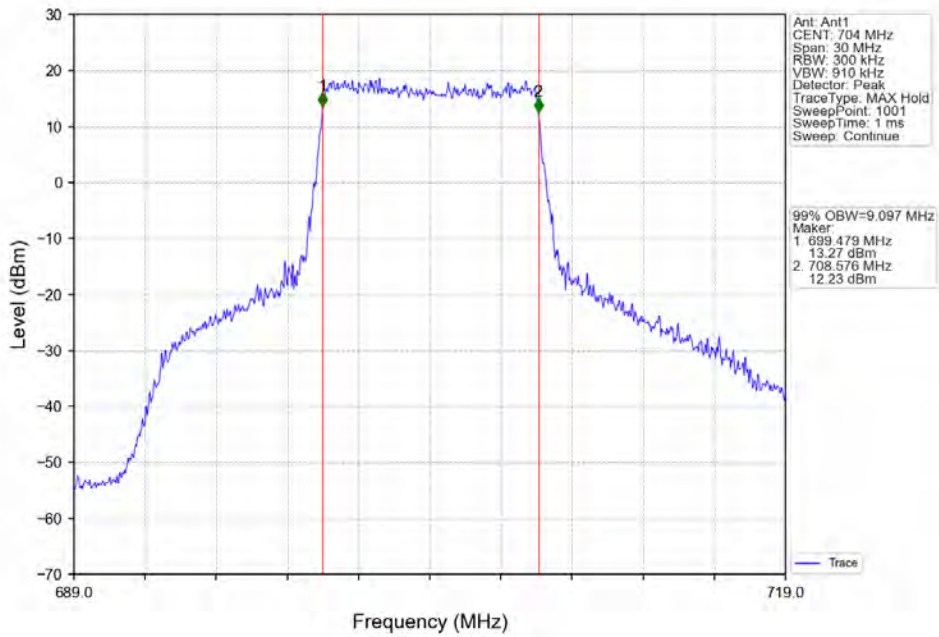
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



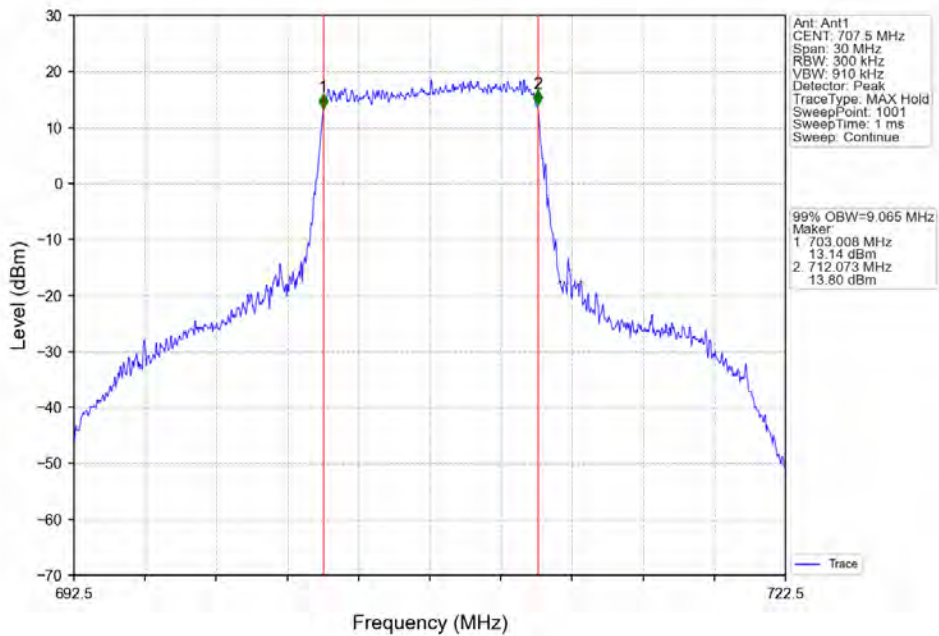
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



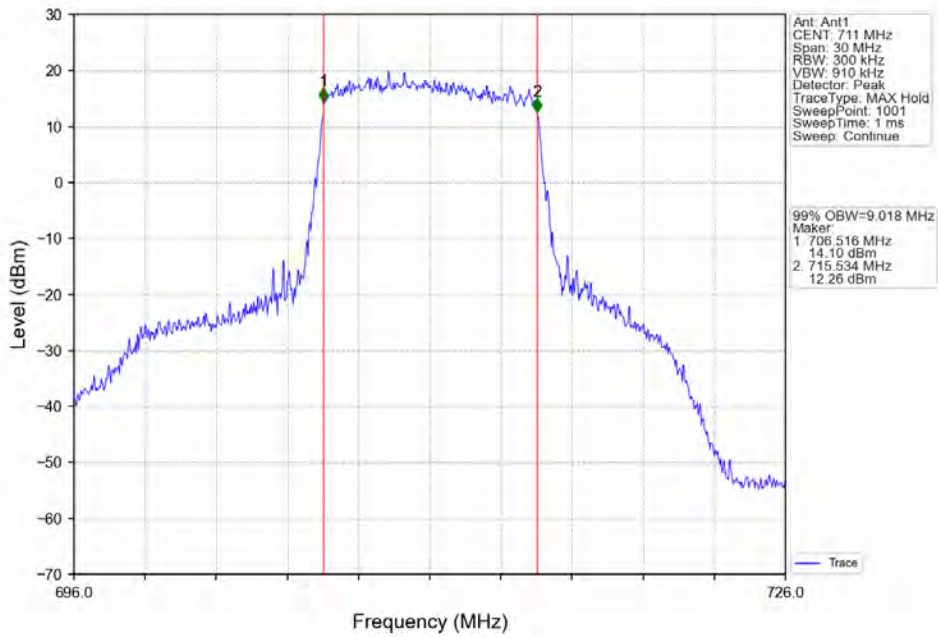
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



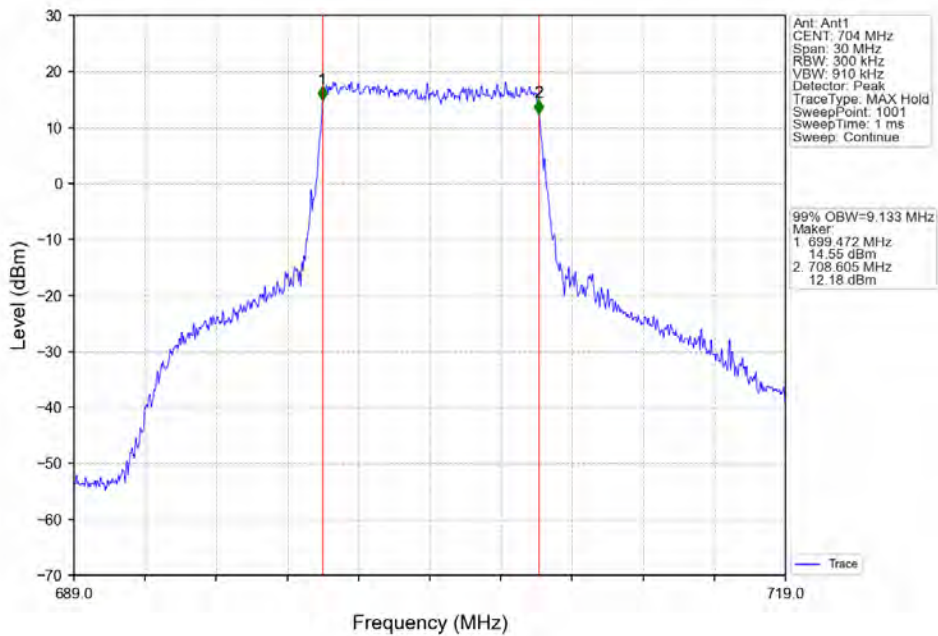
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



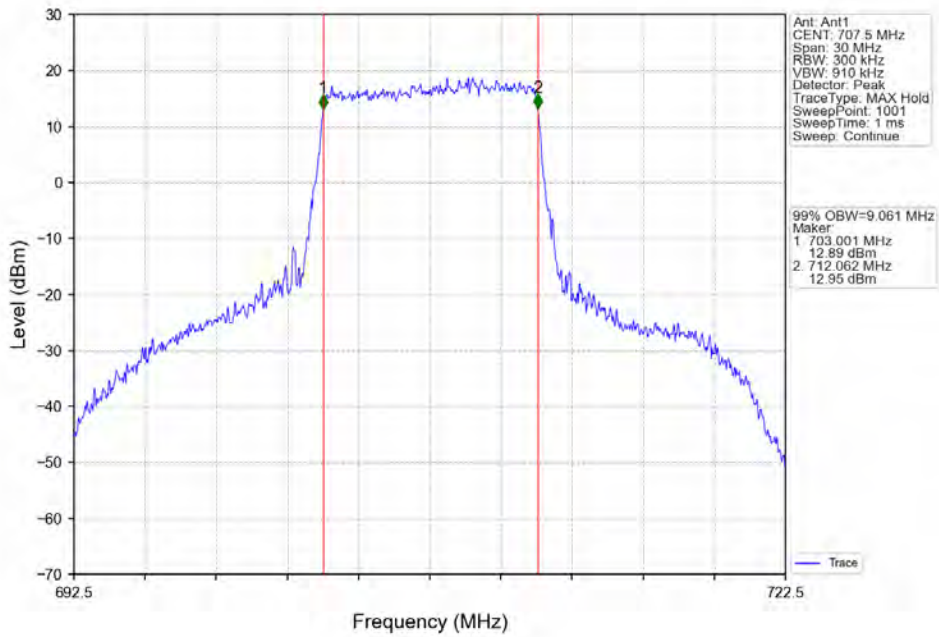
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



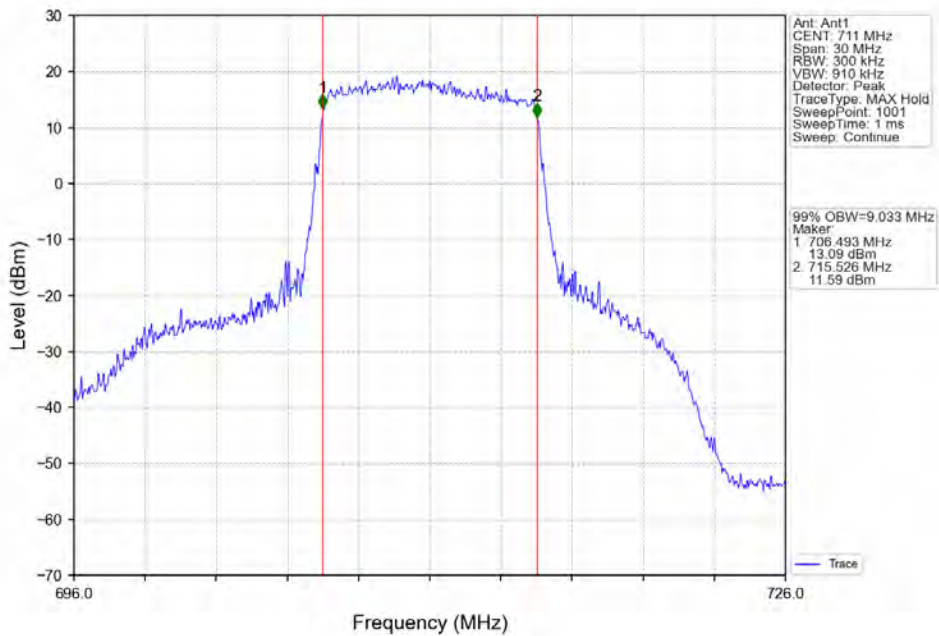
Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



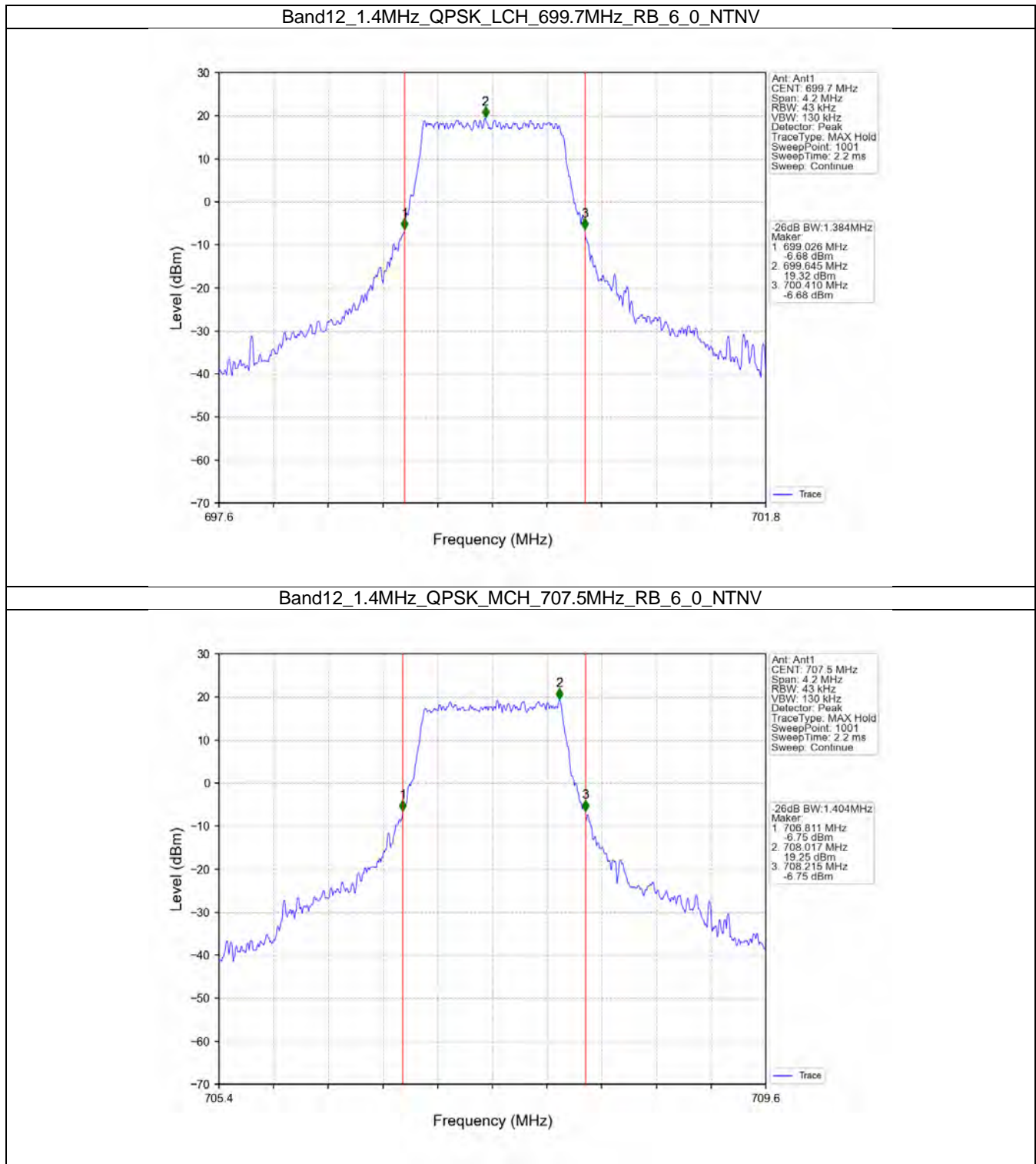


3.2 Band12\_XDB

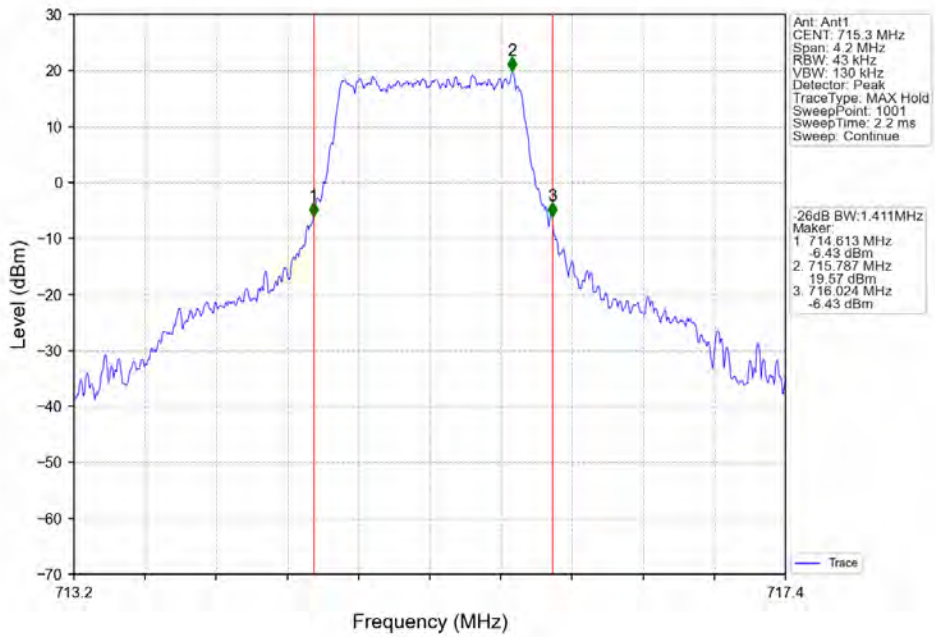
3.2.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.384	/	Pass
		707.5	6	0	1.404	/	Pass
		715.3	6	0	1.411	/	Pass
	16QAM	699.7	6	0	1.385	/	Pass
		707.5	6	0	1.399	/	Pass
		715.3	6	0	1.416	/	Pass
	64QAM	699.7	6	0	1.406	/	Pass
		707.5	6	0	1.380	/	Pass
		715.3	6	0	1.403	/	Pass
3	QPSK	700.5	15	0	3.096	/	Pass
		707.5	15	0	3.081	/	Pass
		714.5	15	0	3.111	/	Pass
	16QAM	700.5	15	0	3.069	/	Pass
		707.5	15	0	3.146	/	Pass
		714.5	15	0	3.116	/	Pass
	64QAM	700.5	15	0	3.138	/	Pass
		707.5	15	0	3.112	/	Pass
		714.5	15	0	3.152	/	Pass
5	QPSK	701.5	25	0	5.183	/	Pass
		707.5	25	0	5.170	/	Pass
		713.5	25	0	5.244	/	Pass
	16QAM	701.5	25	0	5.223	/	Pass
		707.5	25	0	5.197	/	Pass
		713.5	25	0	5.270	/	Pass
	64QAM	701.5	25	0	5.235	/	Pass
		707.5	25	0	5.181	/	Pass
		713.5	25	0	5.253	/	Pass
10	QPSK	704	50	0	10.233	/	Pass
		707.5	50	0	10.286	/	Pass
		711	50	0	10.076	/	Pass
	16QAM	704	50	0	10.319	/	Pass
		707.5	50	0	10.114	/	Pass
		711	50	0	10.047	/	Pass
	64QAM	704	50	0	10.214	/	Pass
		707.5	50	0	10.282	/	Pass
		711	50	0	9.980	/	Pass

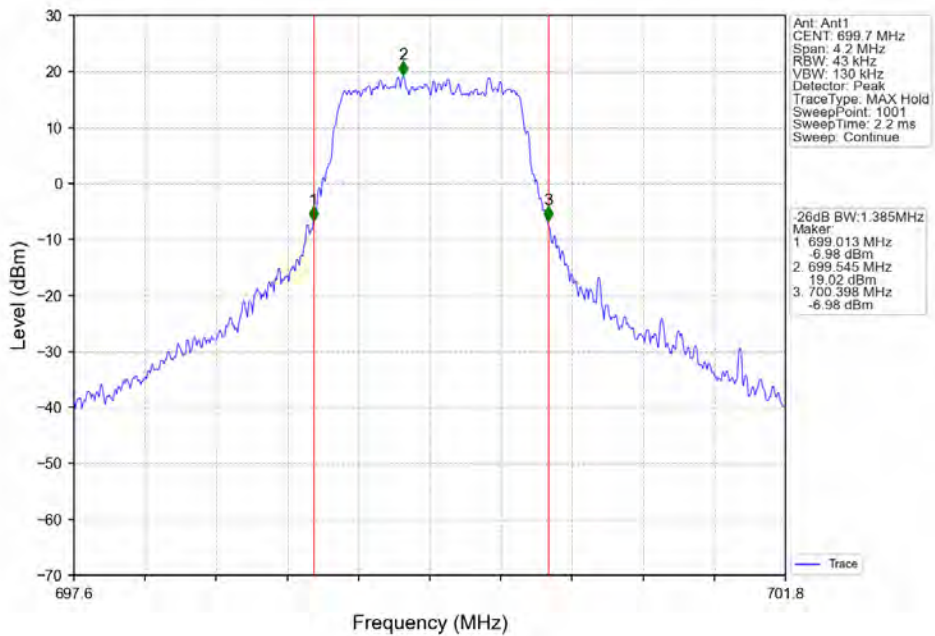
3.2.2 Test Graph



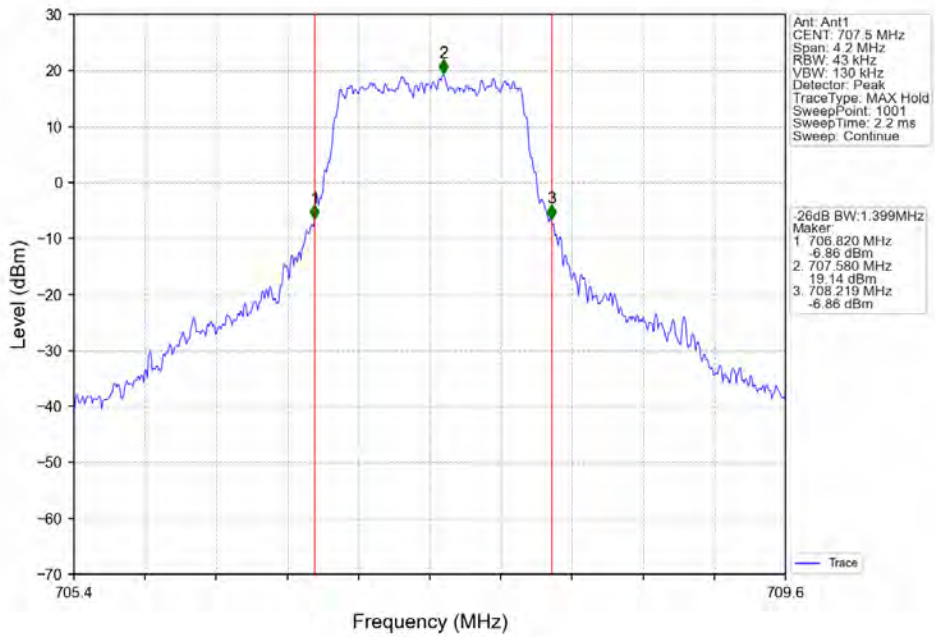
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



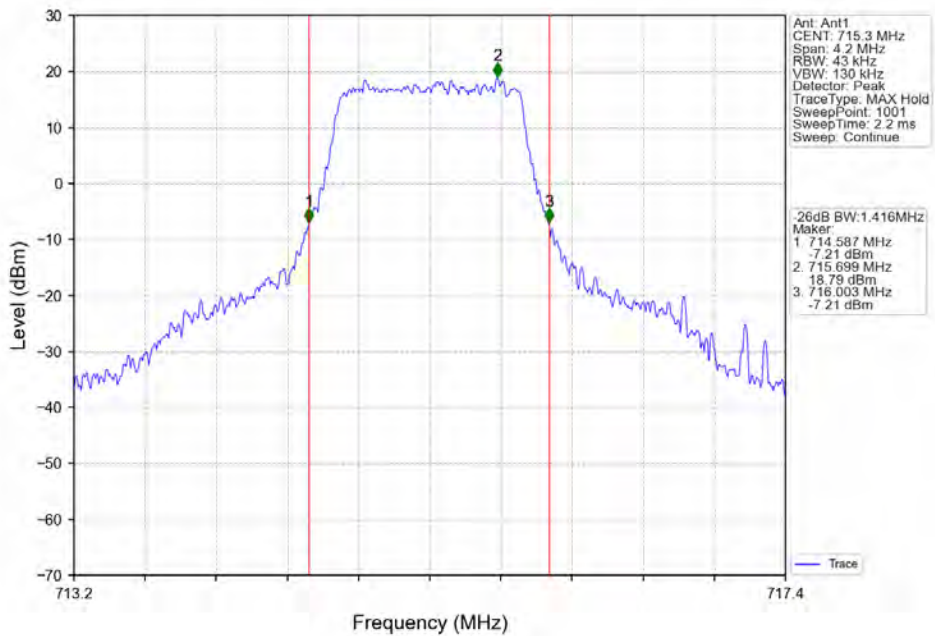
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



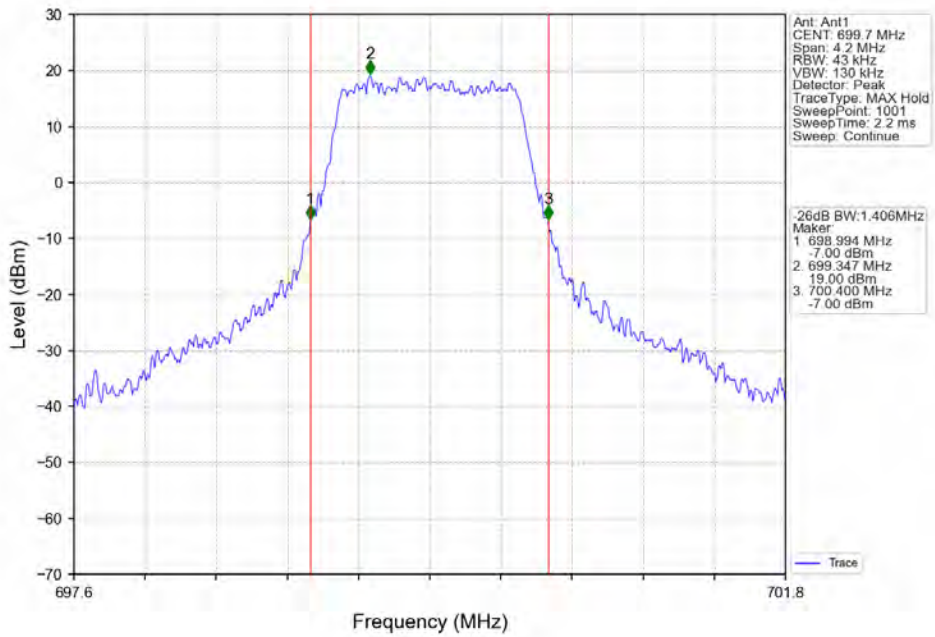
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



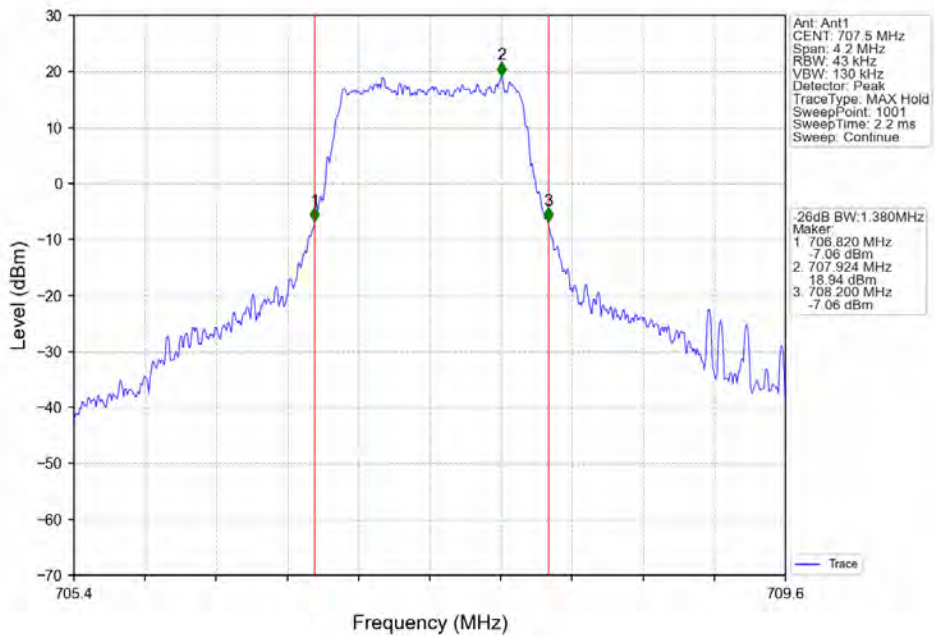
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



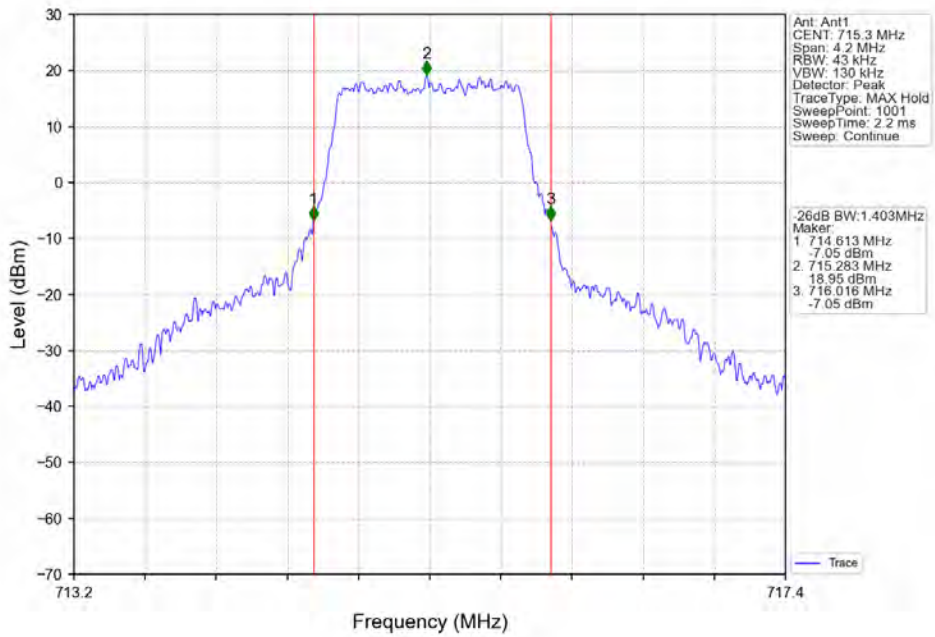
Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



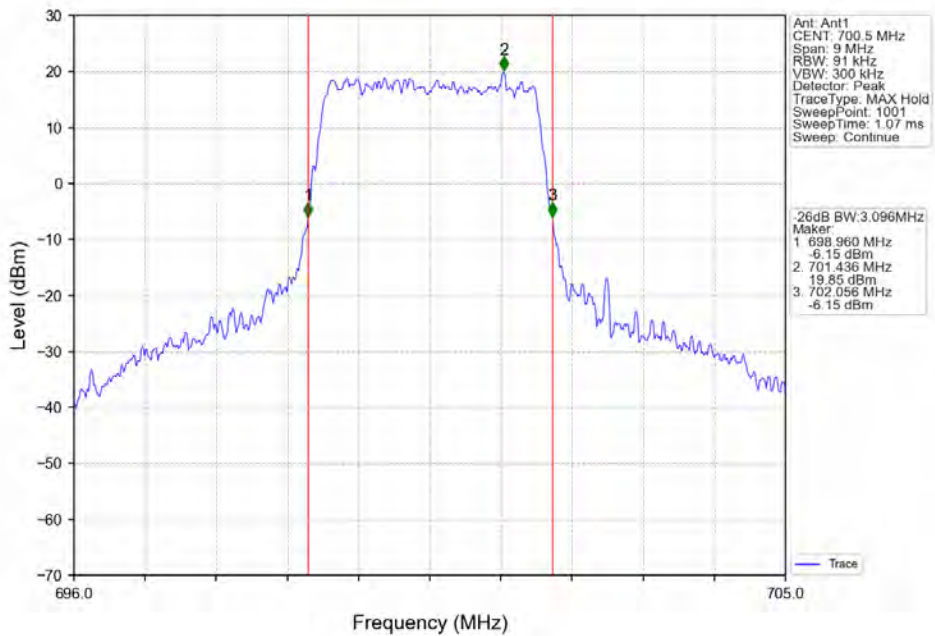
Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



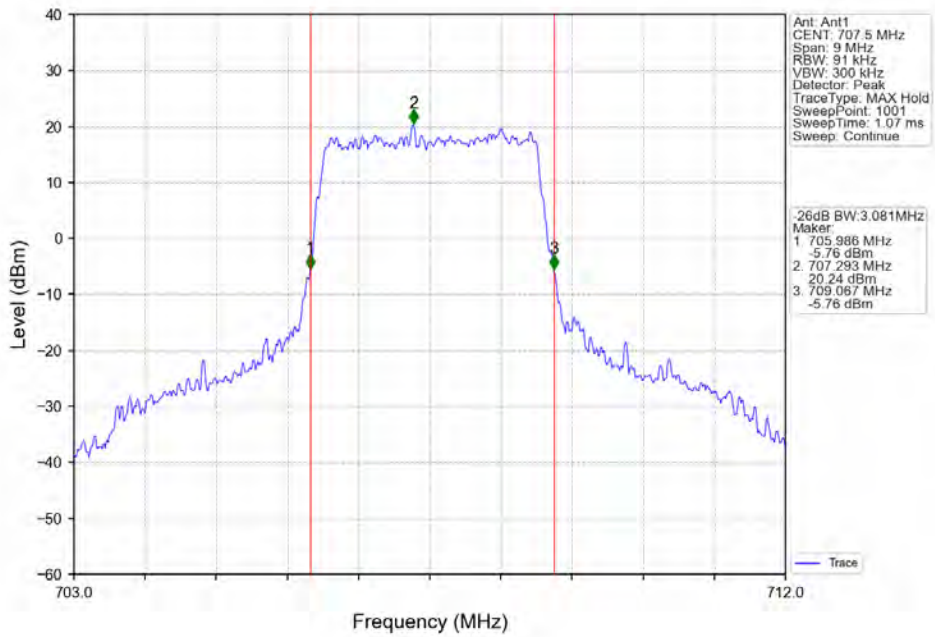
Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



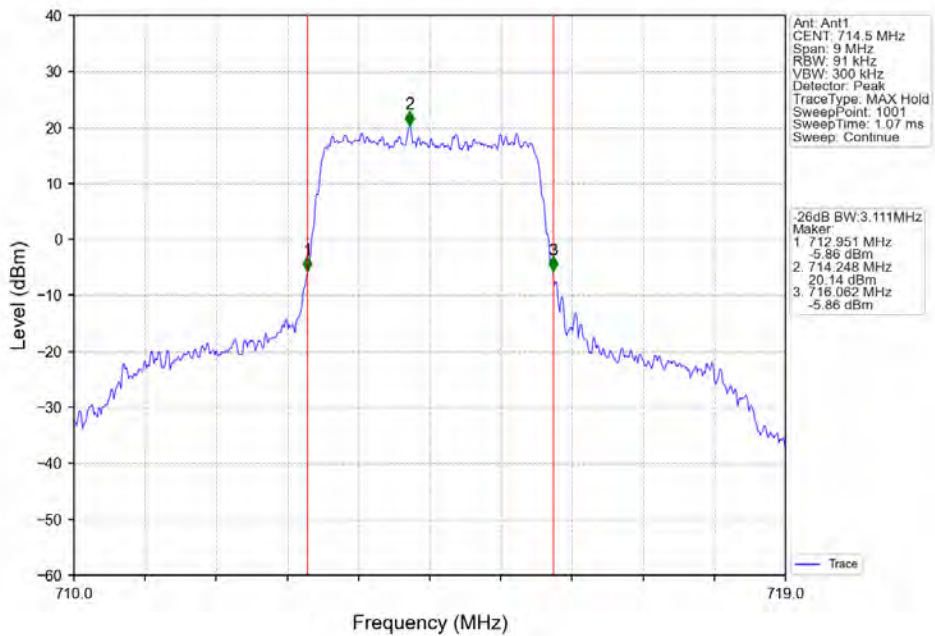
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



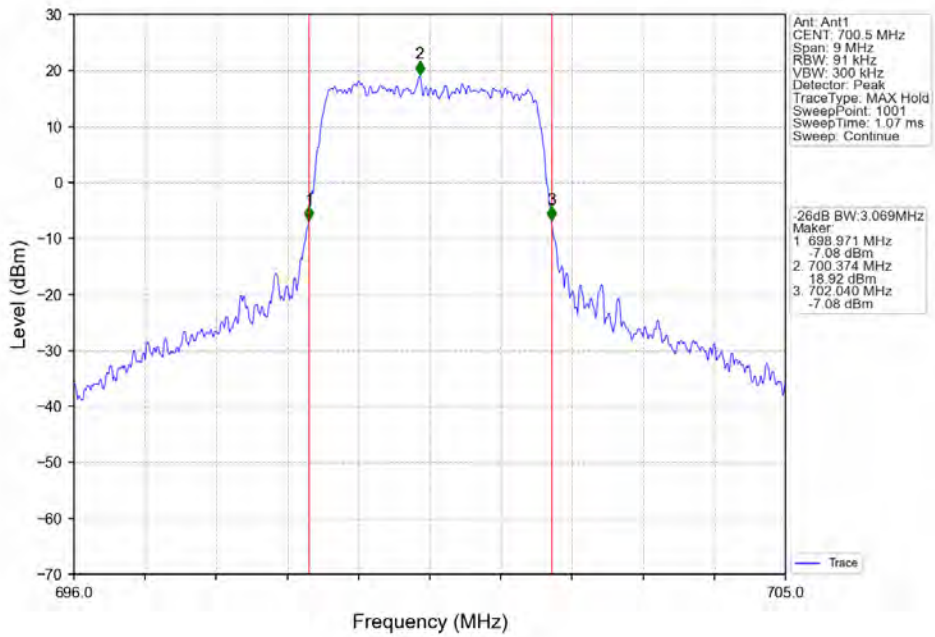
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



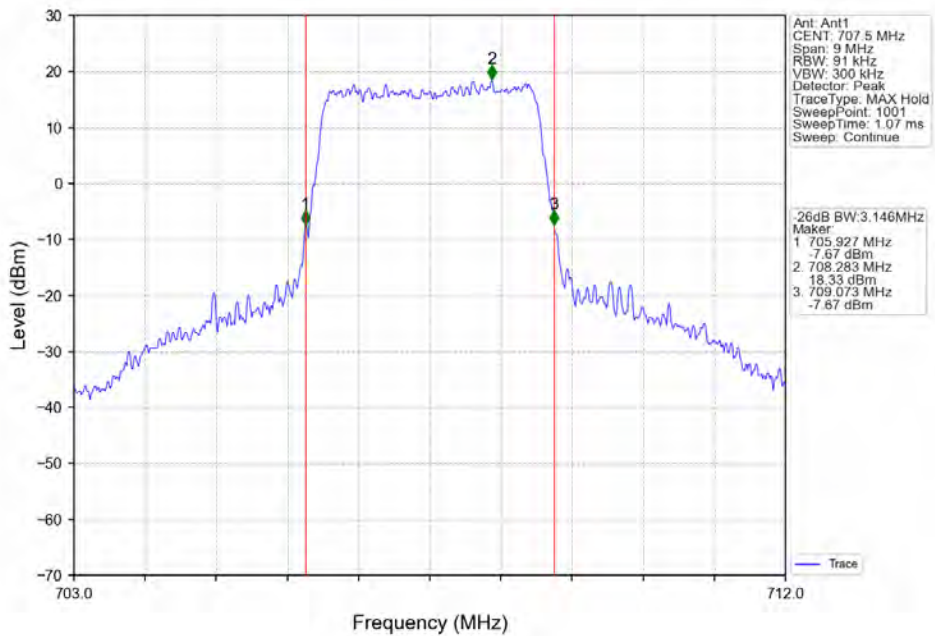
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

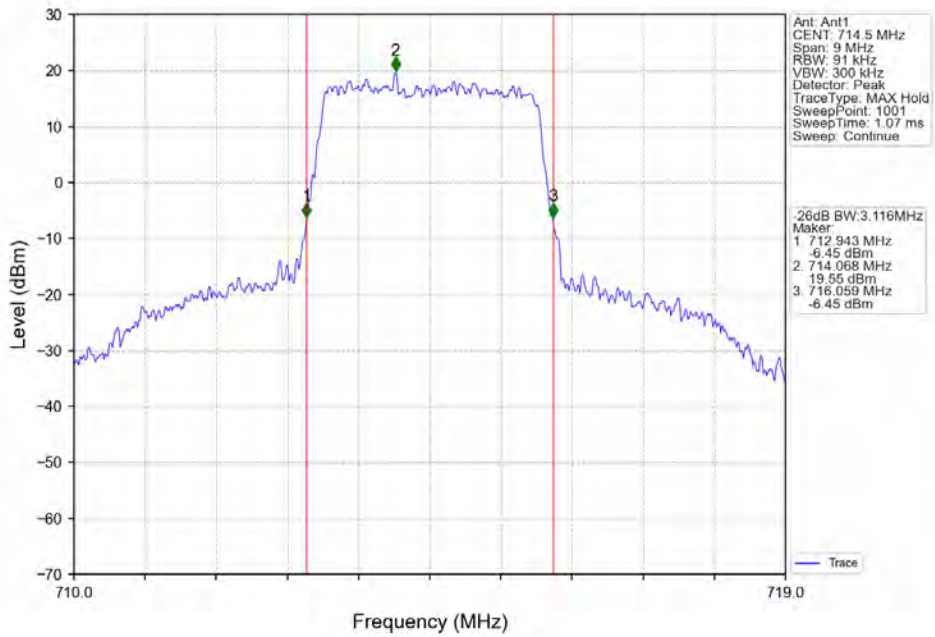


Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV

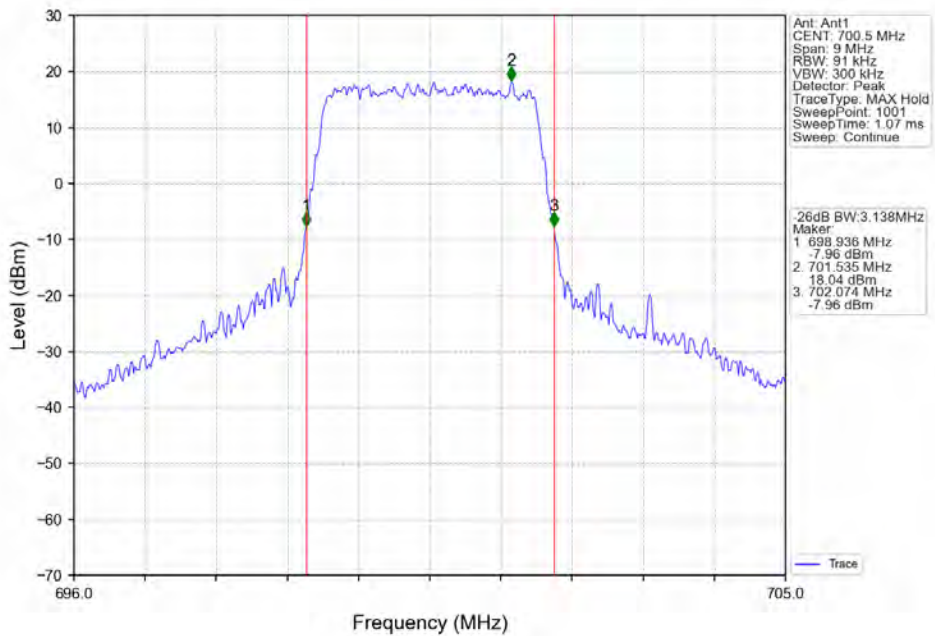




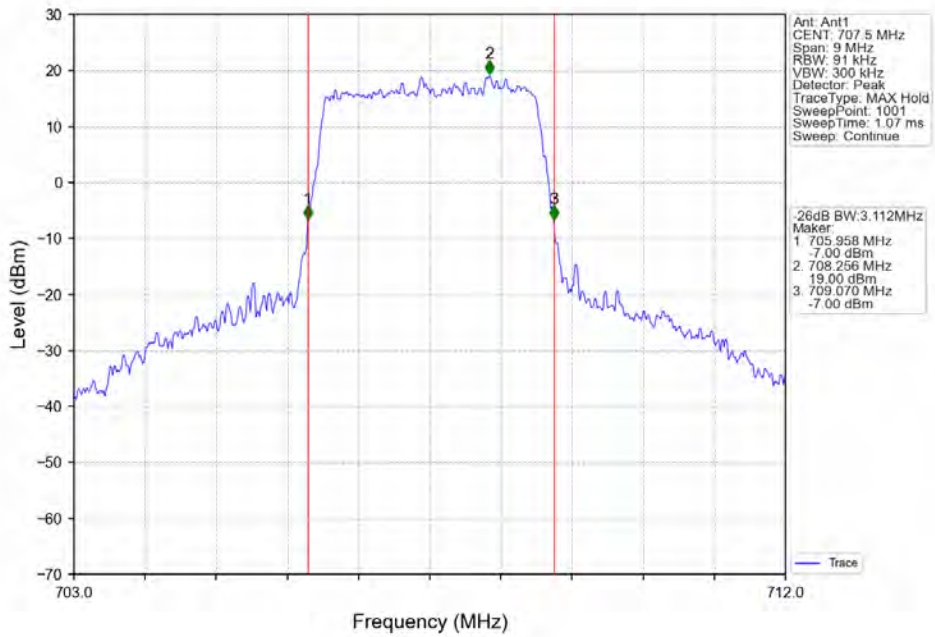
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



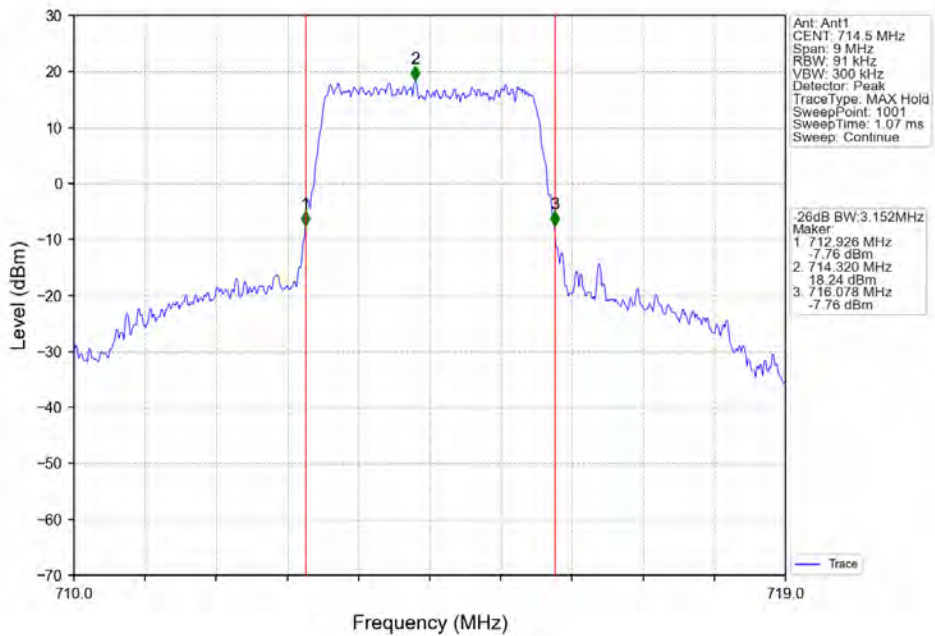
Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



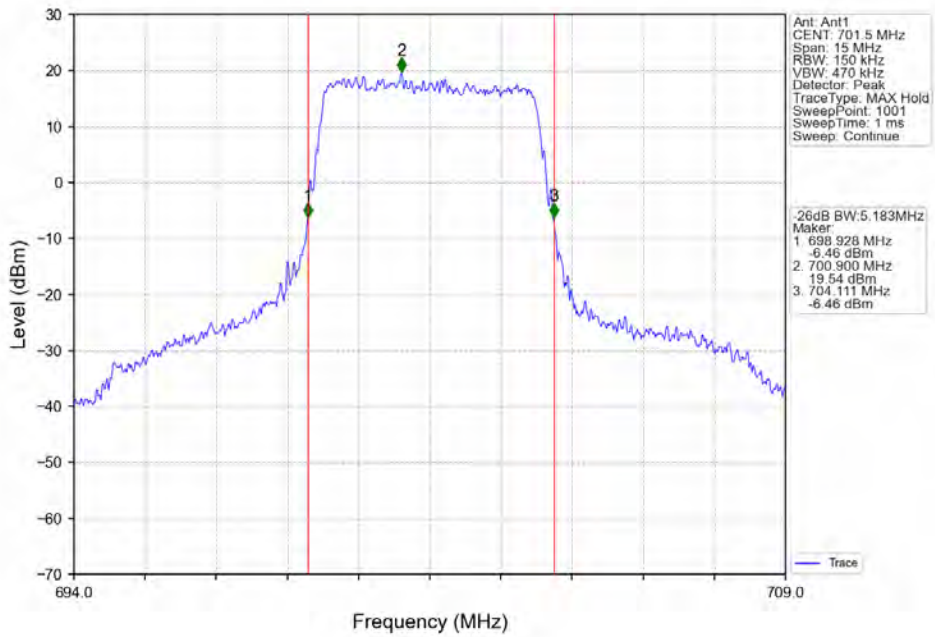
Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



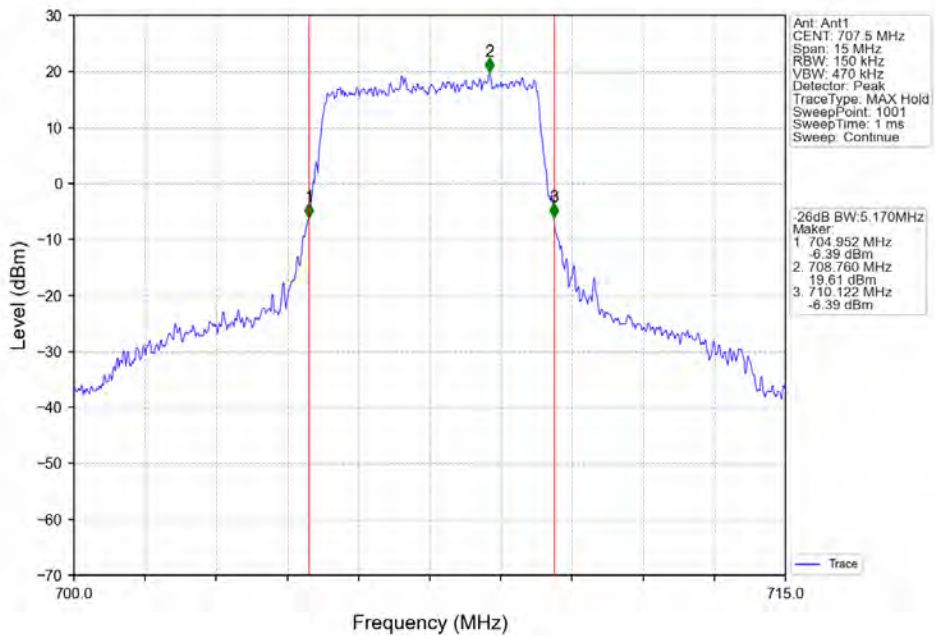
Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



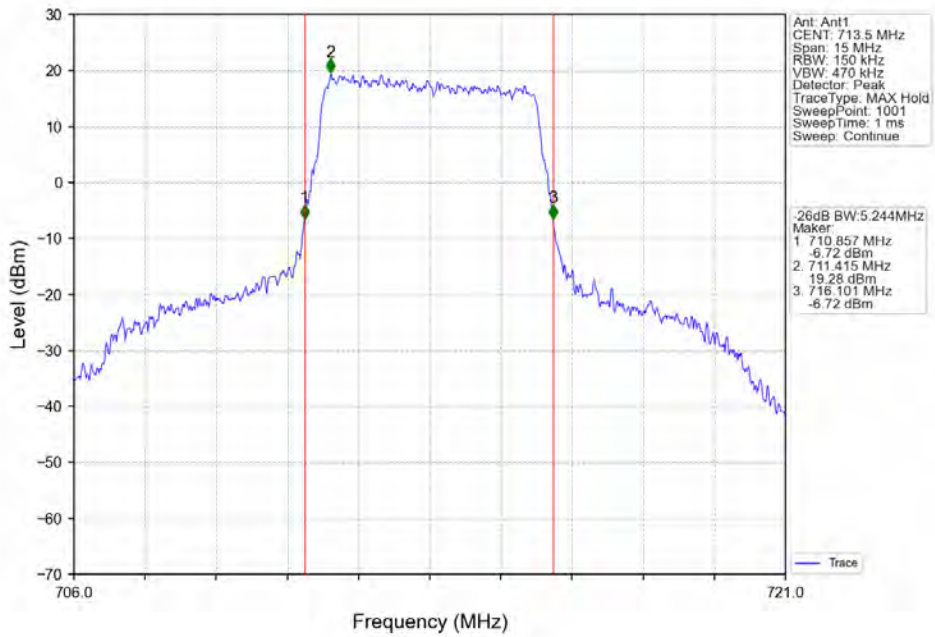
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



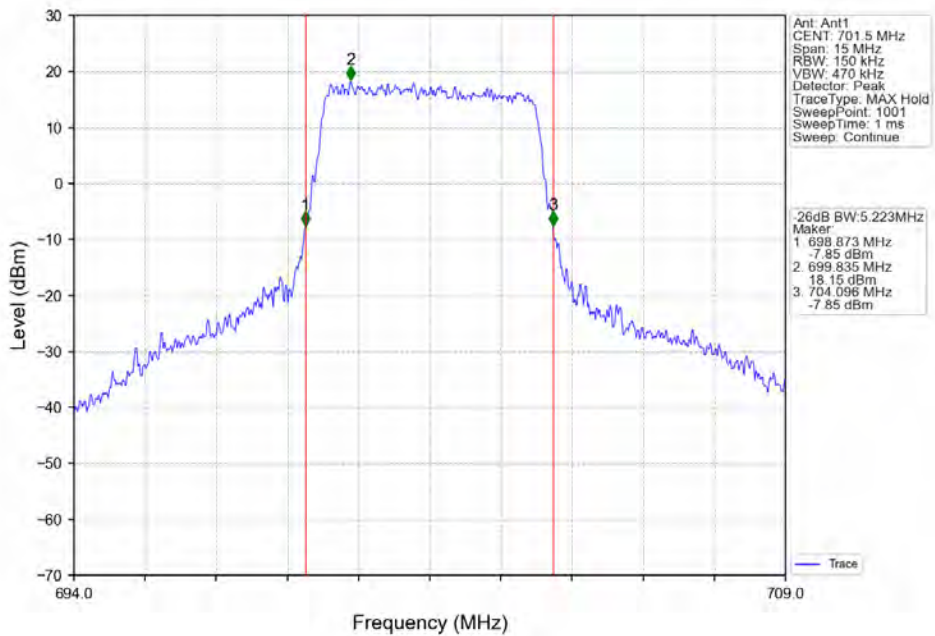
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



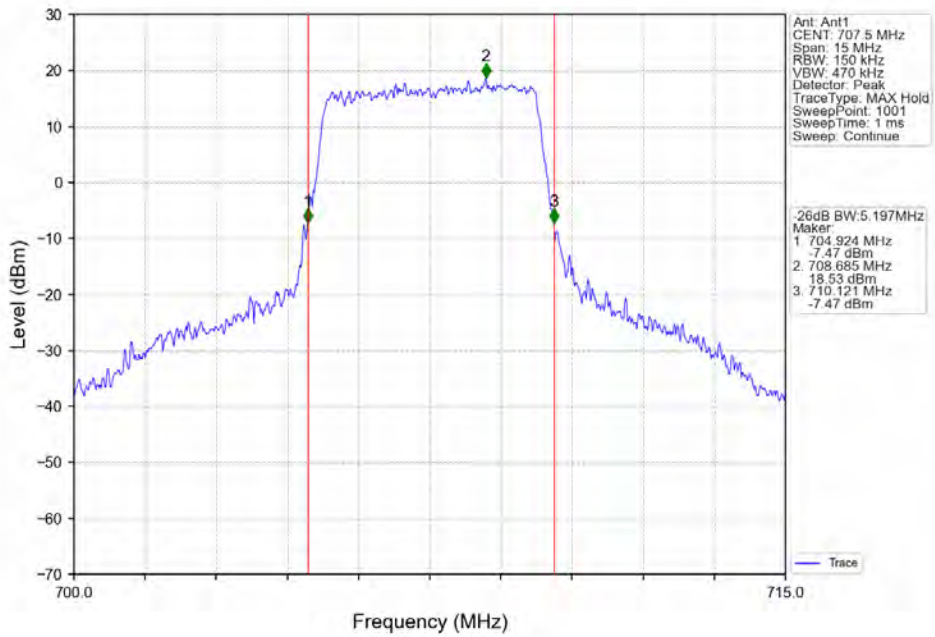
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



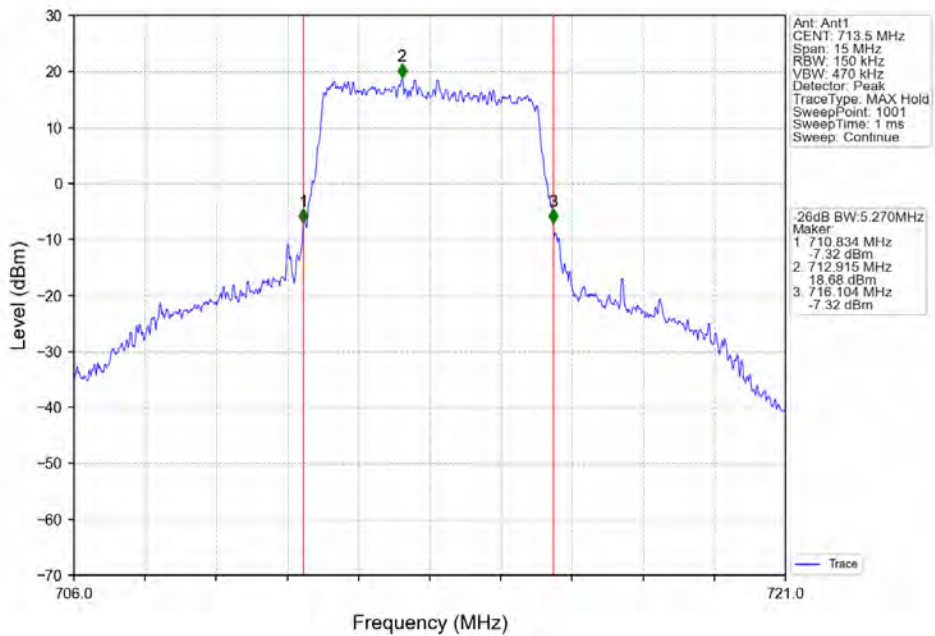
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



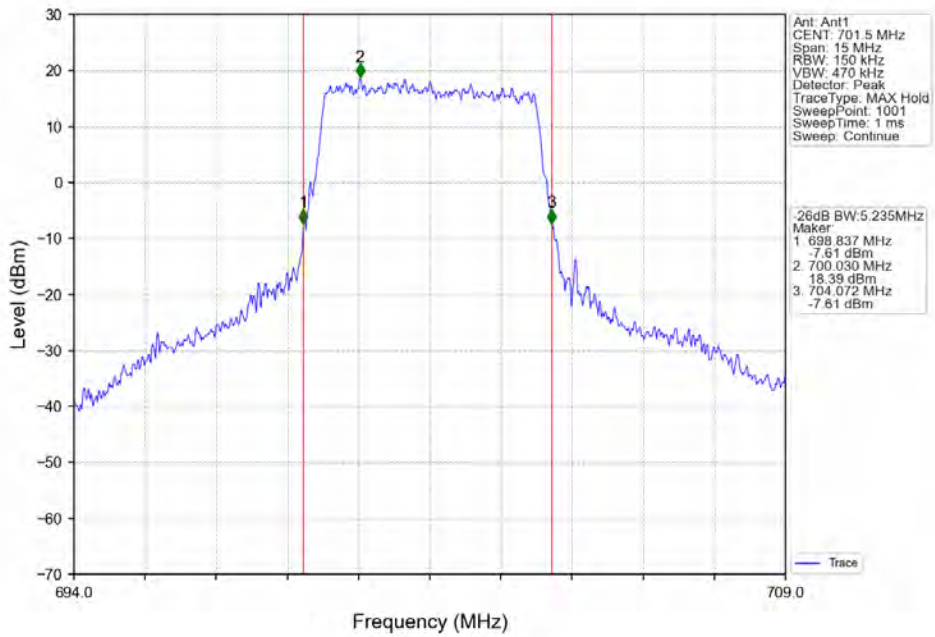
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



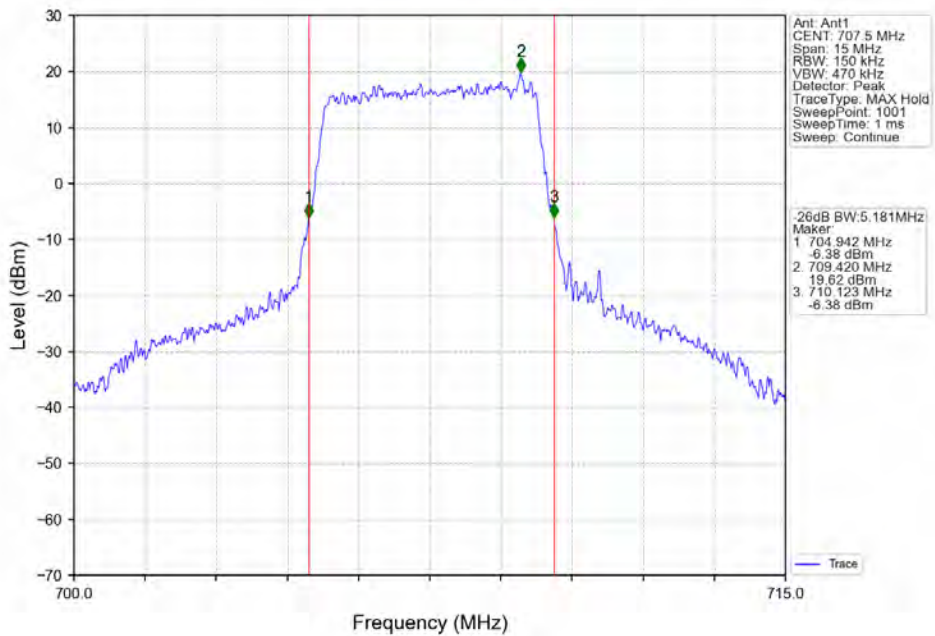
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



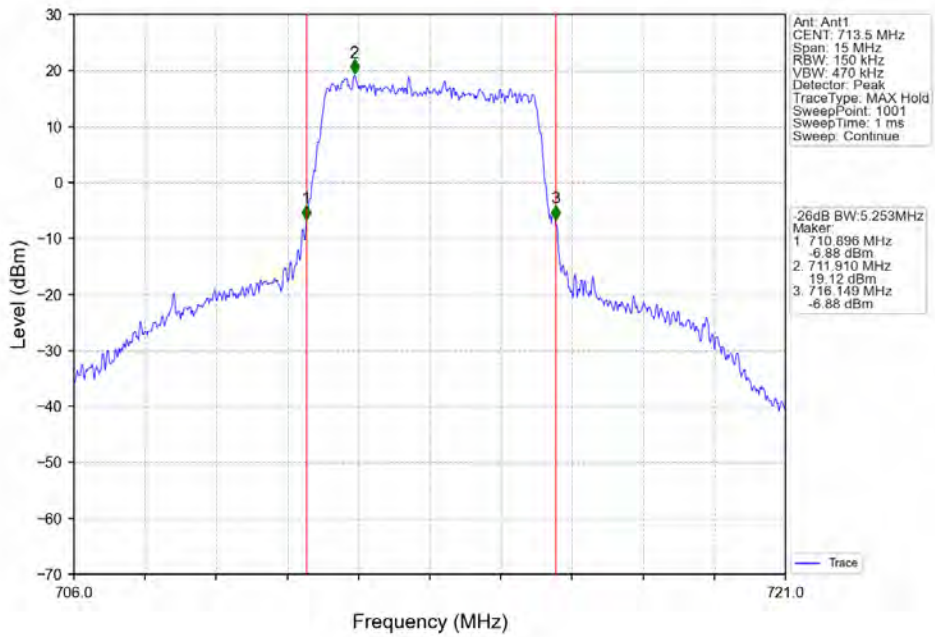
Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



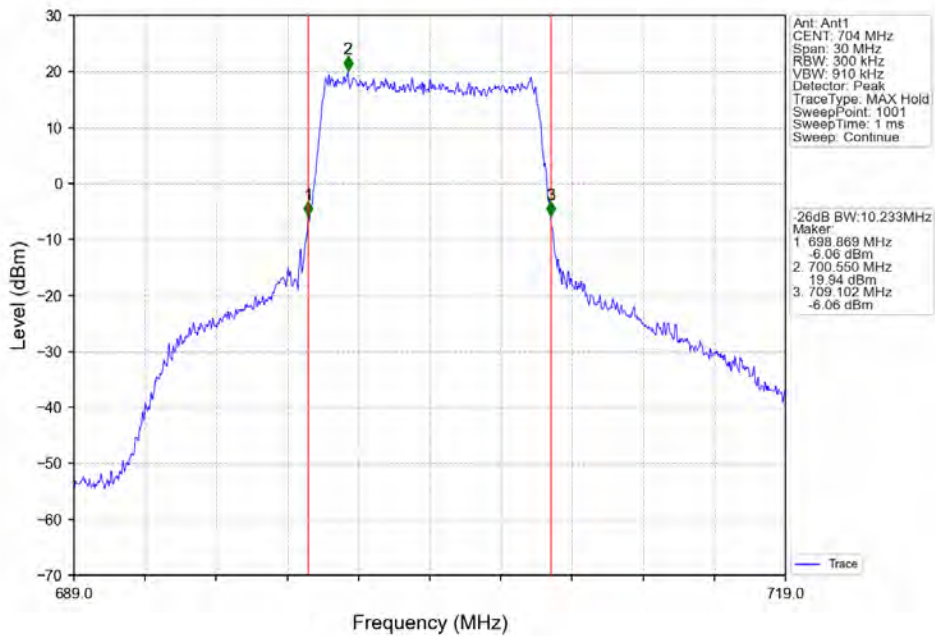
Band12\_5MHz\_64QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



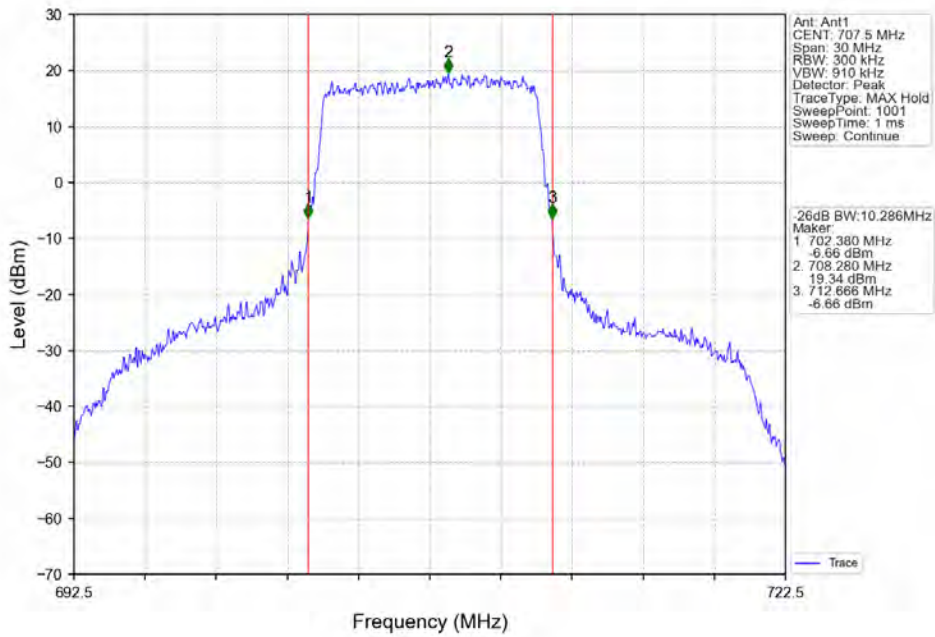
Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



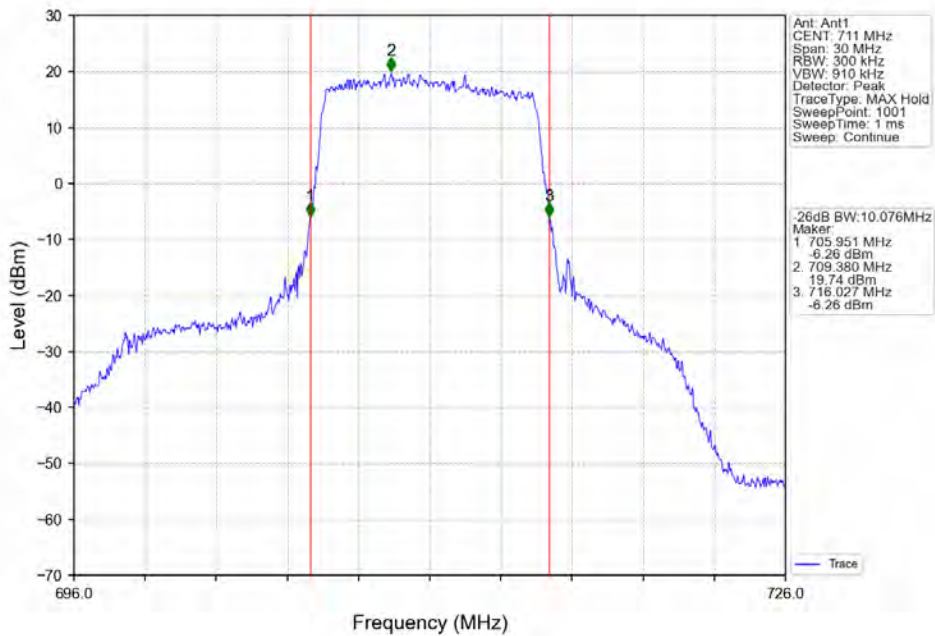
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV

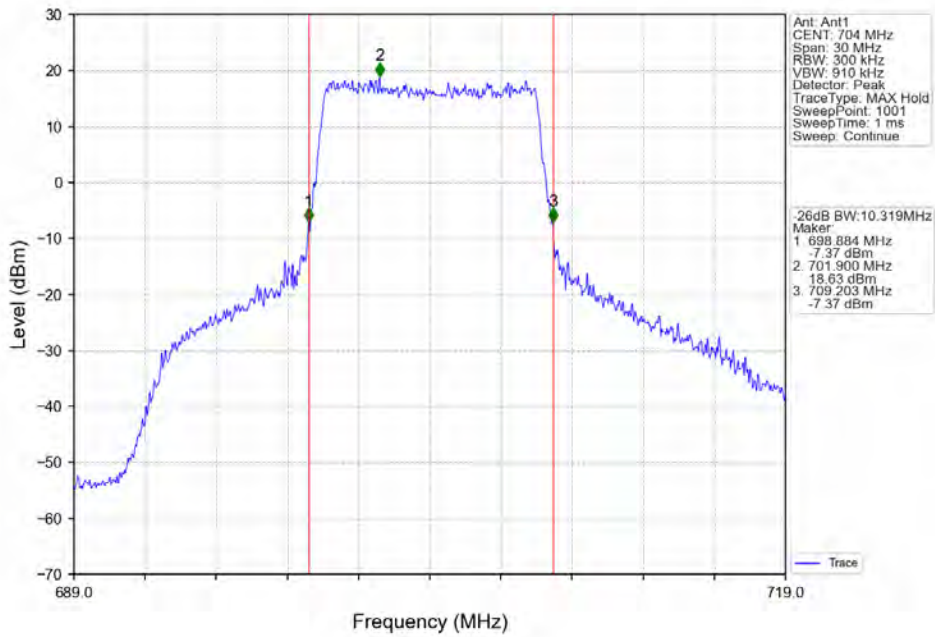


Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV

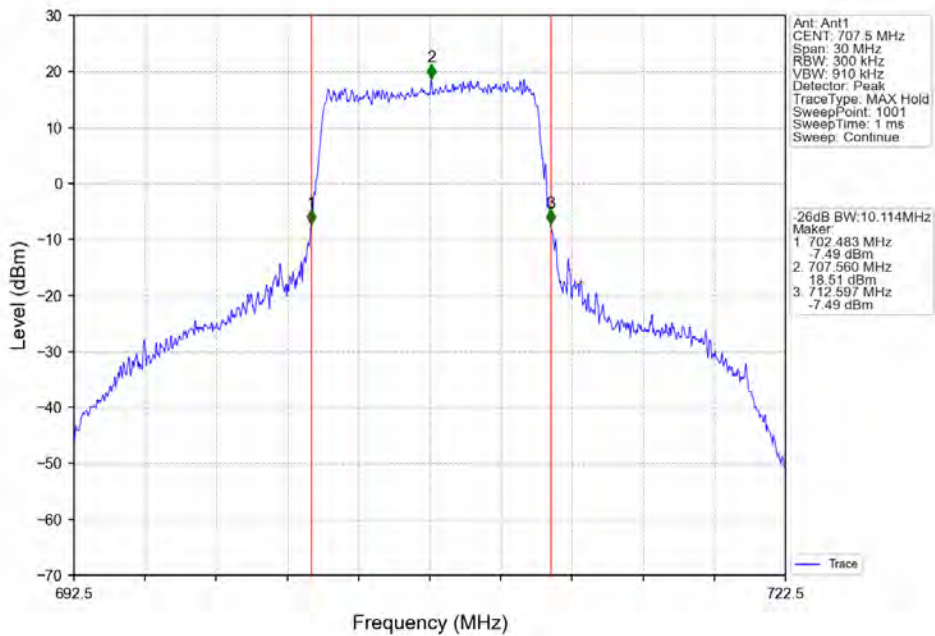




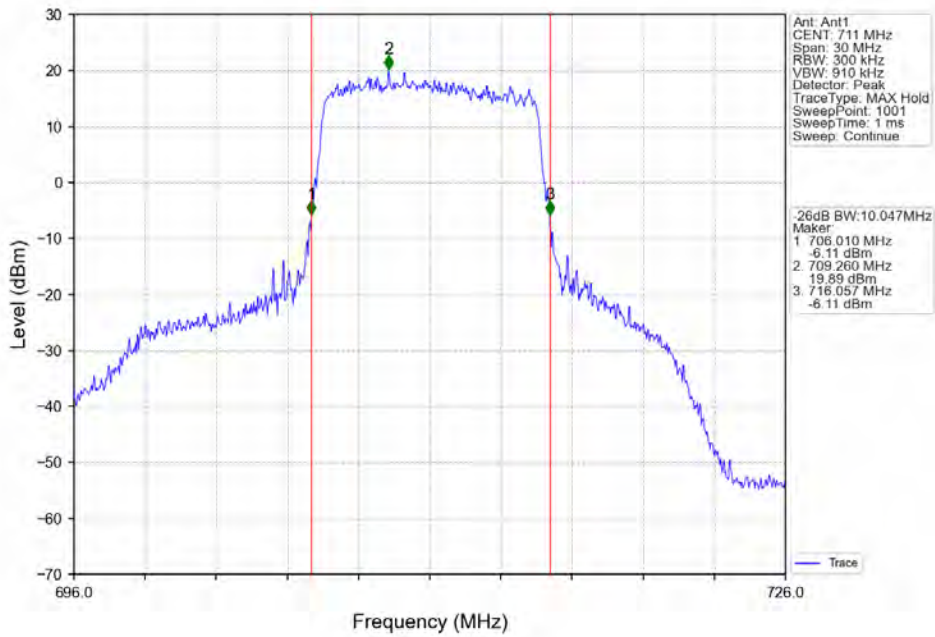
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



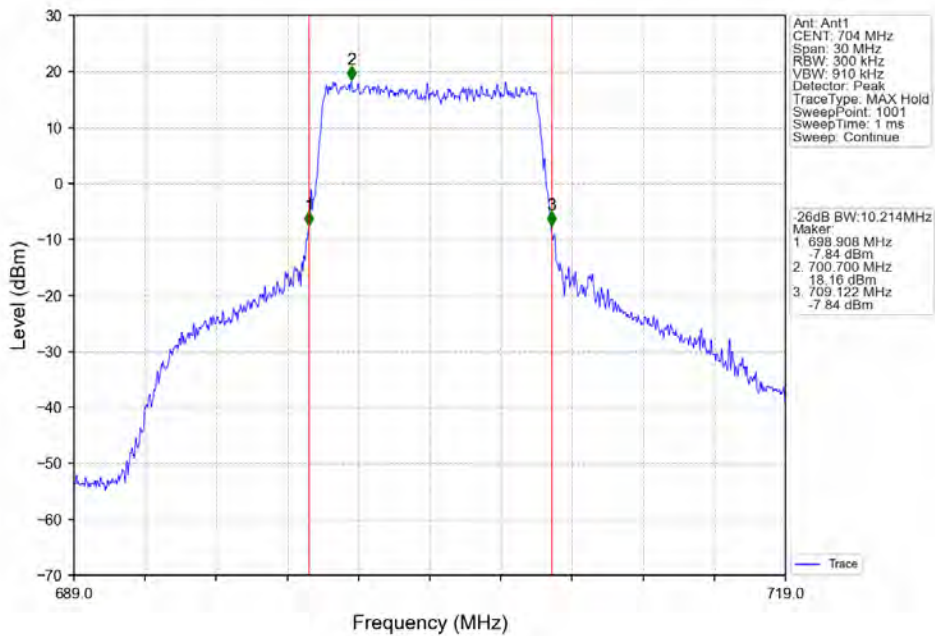
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



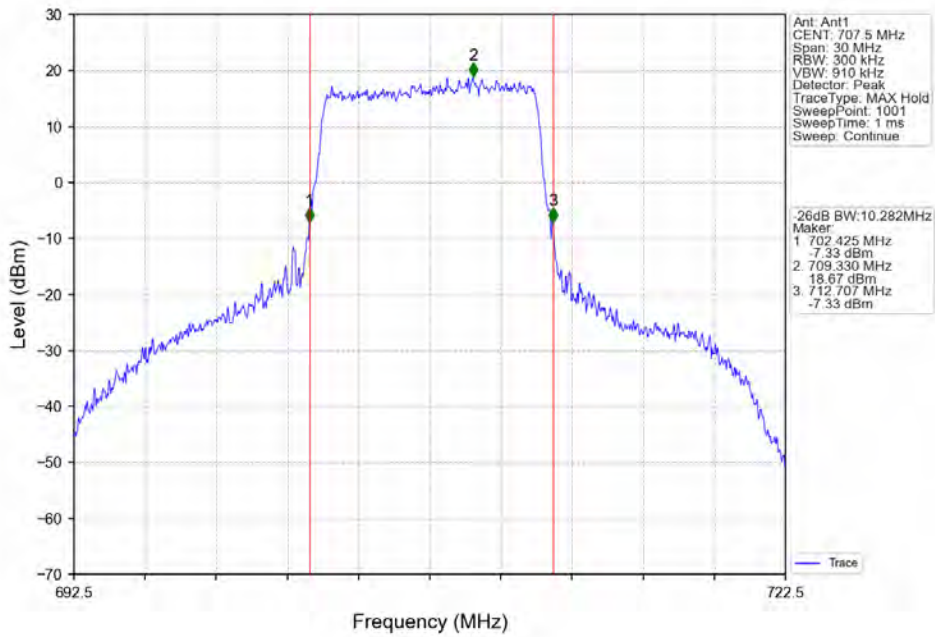
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



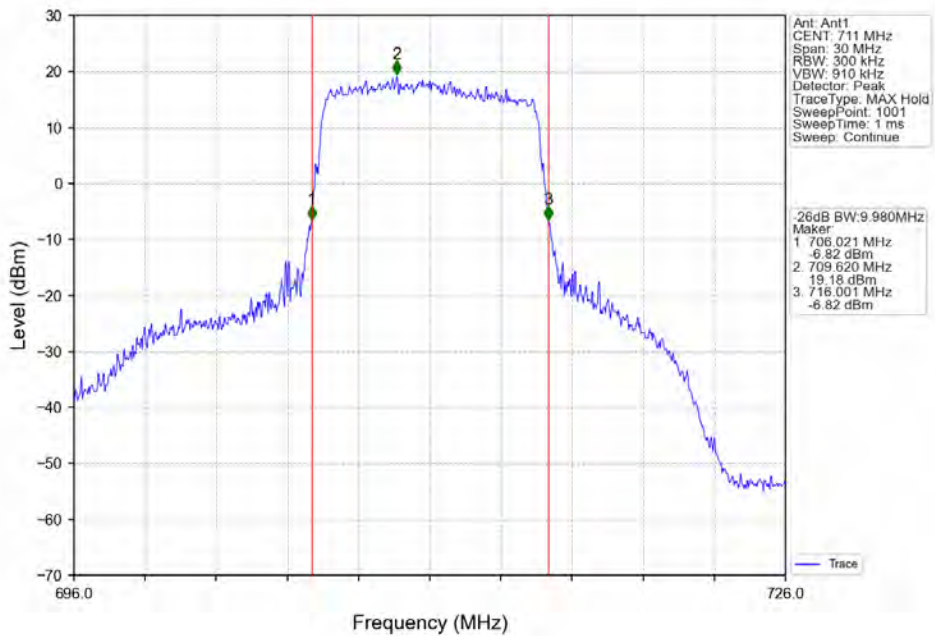
Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



#### 4. Peak-Average Ratio

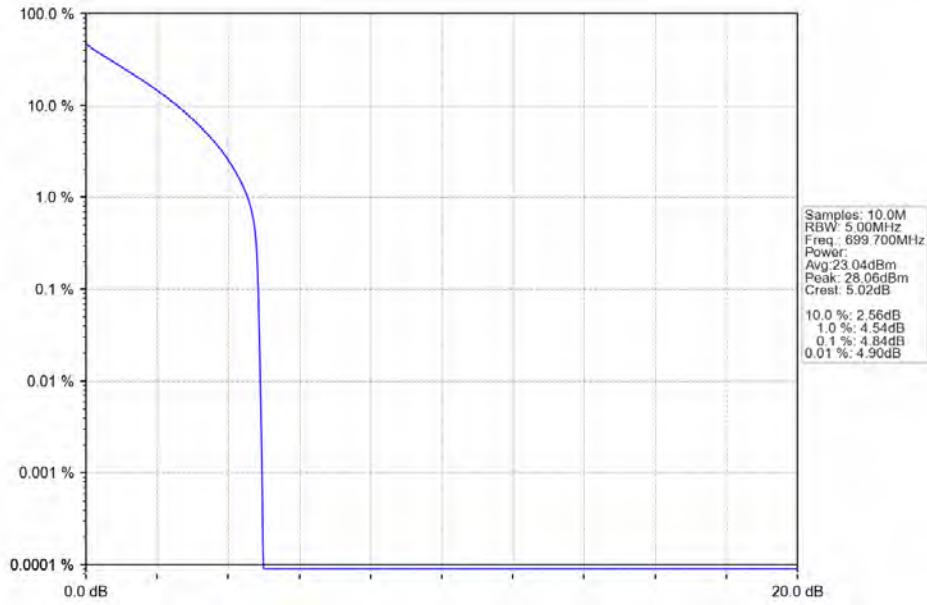
##### 4.1 B12\_1.4MHz

##### 4.1.1 Test Result

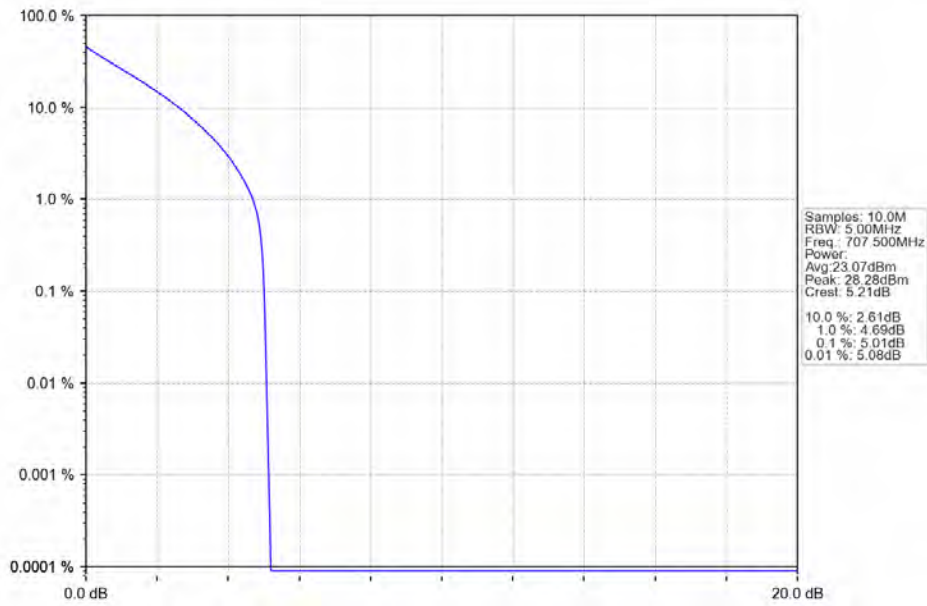
Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.84	<=13	Pass
	707.5	6	0	5.01	<=13	Pass
	715.3	6	0	5.11	<=13	Pass
16QAM	699.7	6	0	6.18	<=13	Pass
	707.5	6	0	6.39	<=13	Pass
	715.3	6	0	6.54	<=13	Pass
64QAM	699.7	6	0	6.18	<=13	Pass
	707.5	6	0	6.39	<=13	Pass
	715.3	6	0	6.54	<=13	Pass

4.1.2 Test Graph

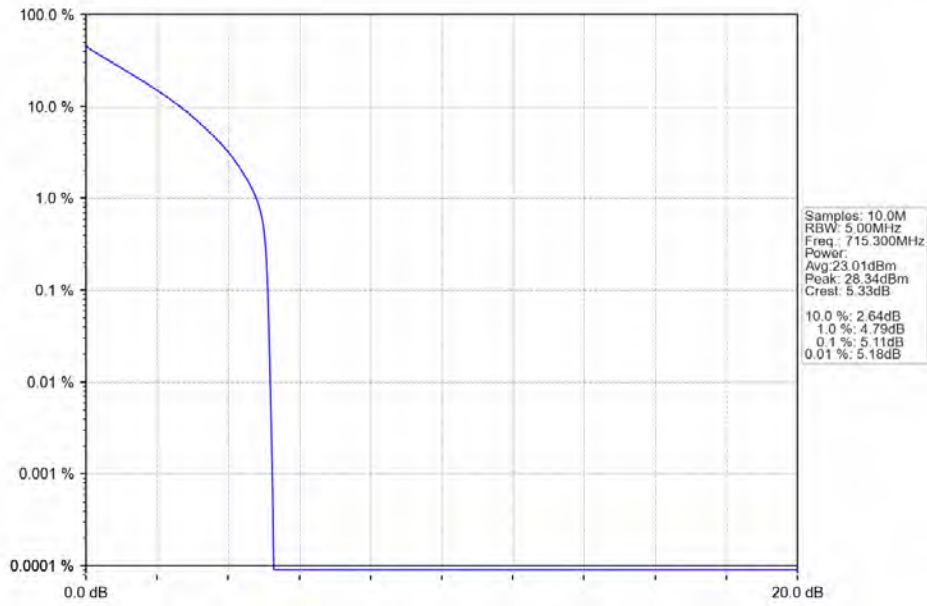
Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



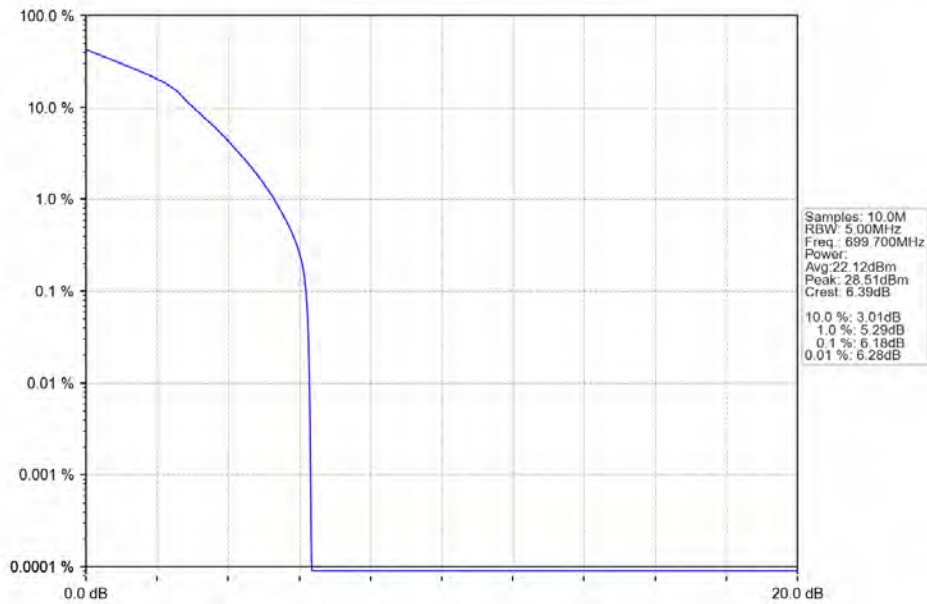
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



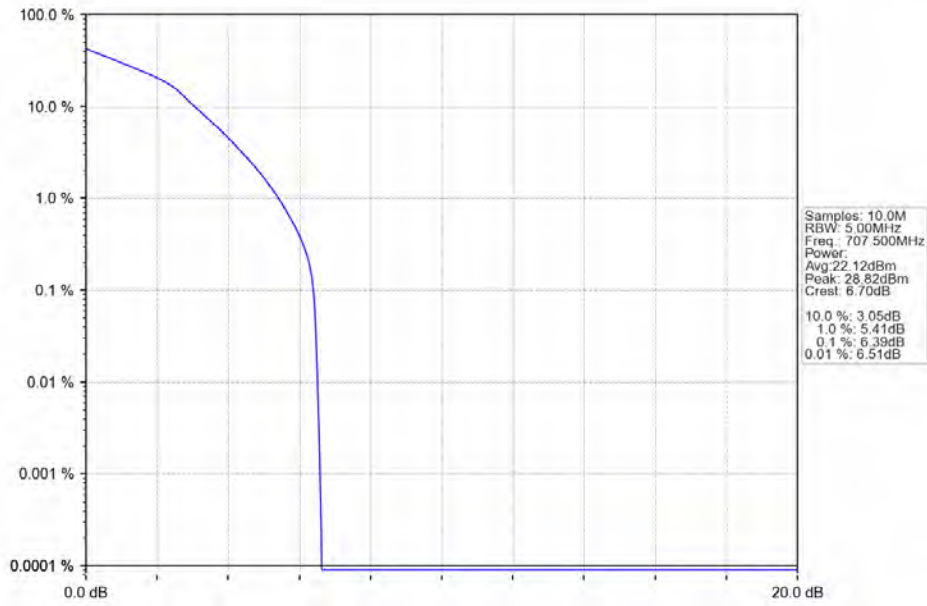
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



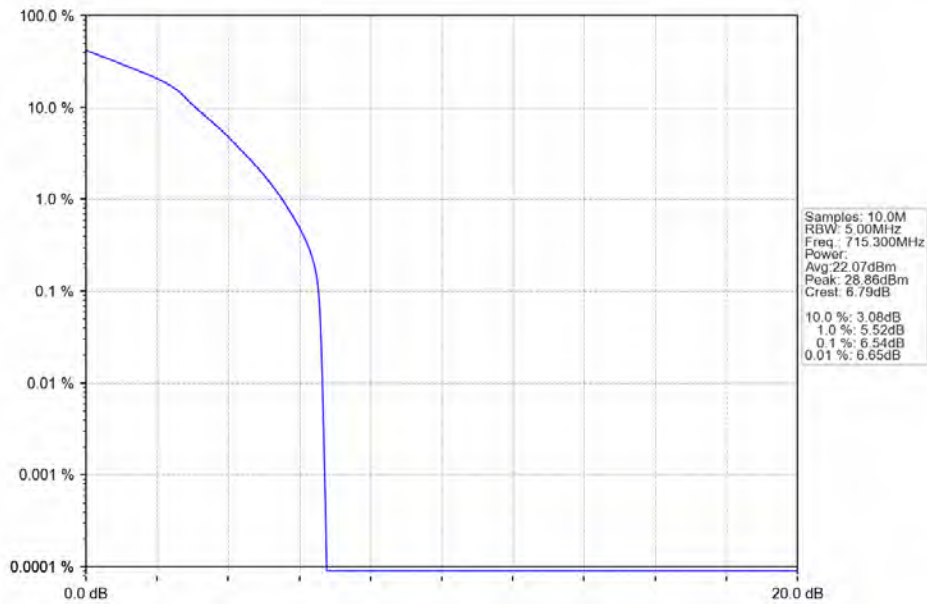
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



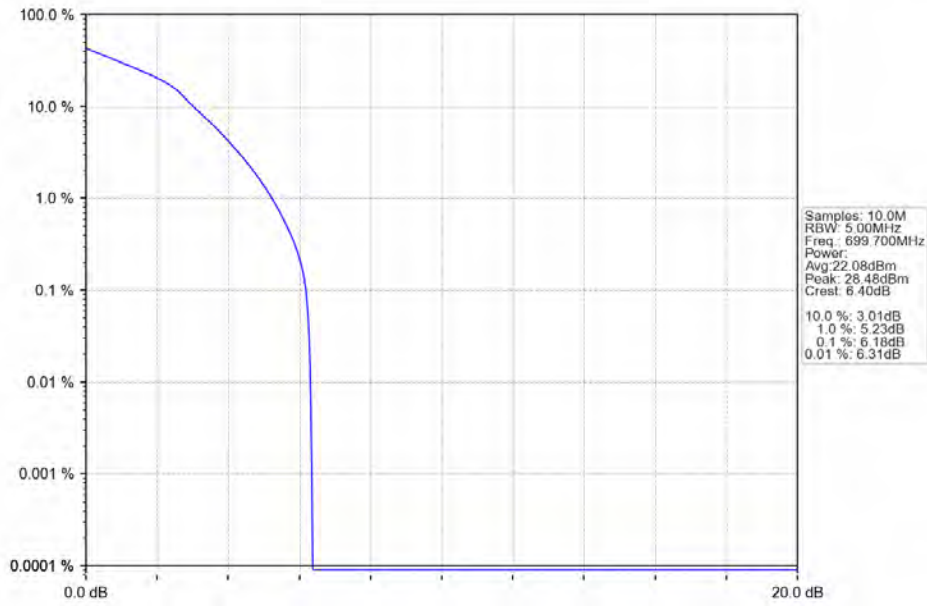
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



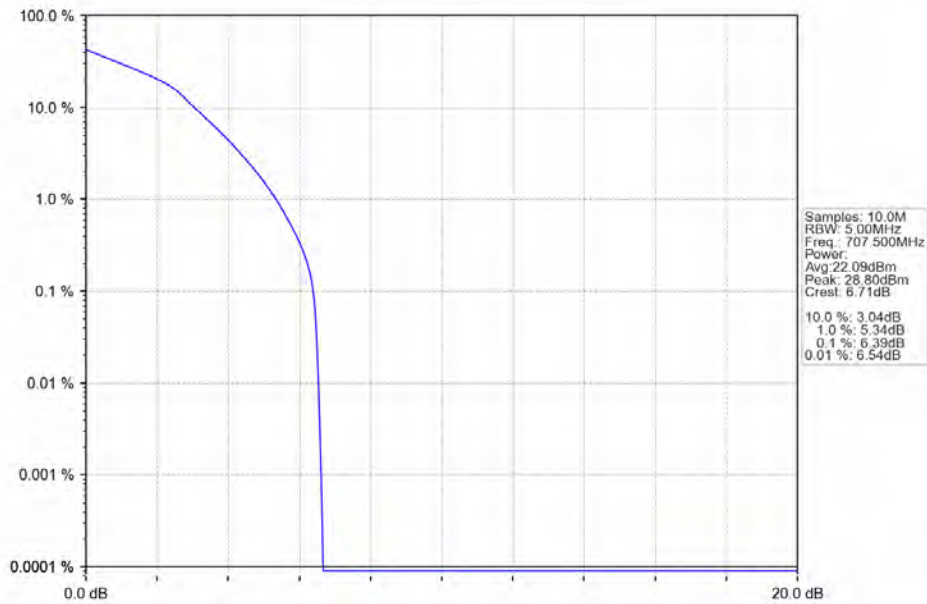
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

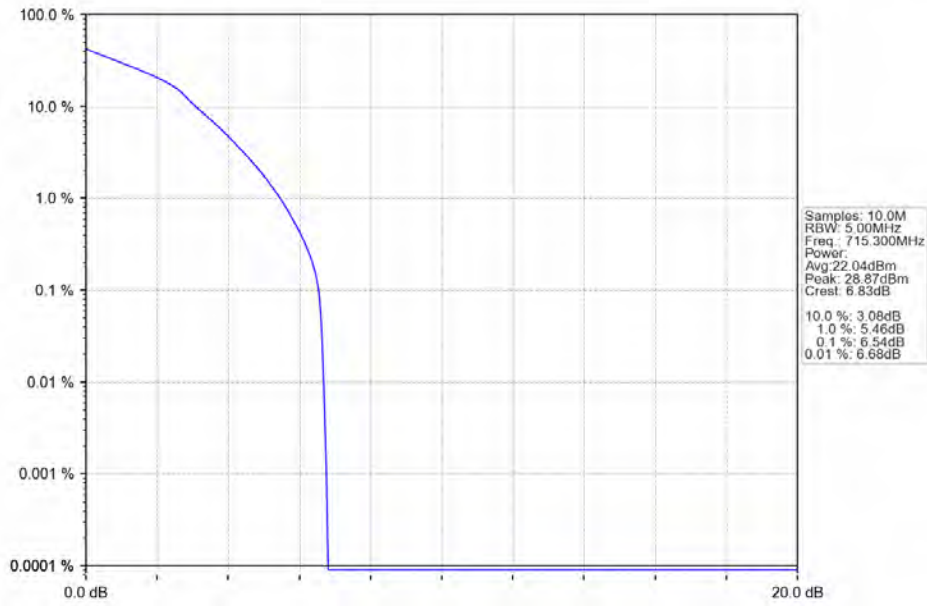


Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV





Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV

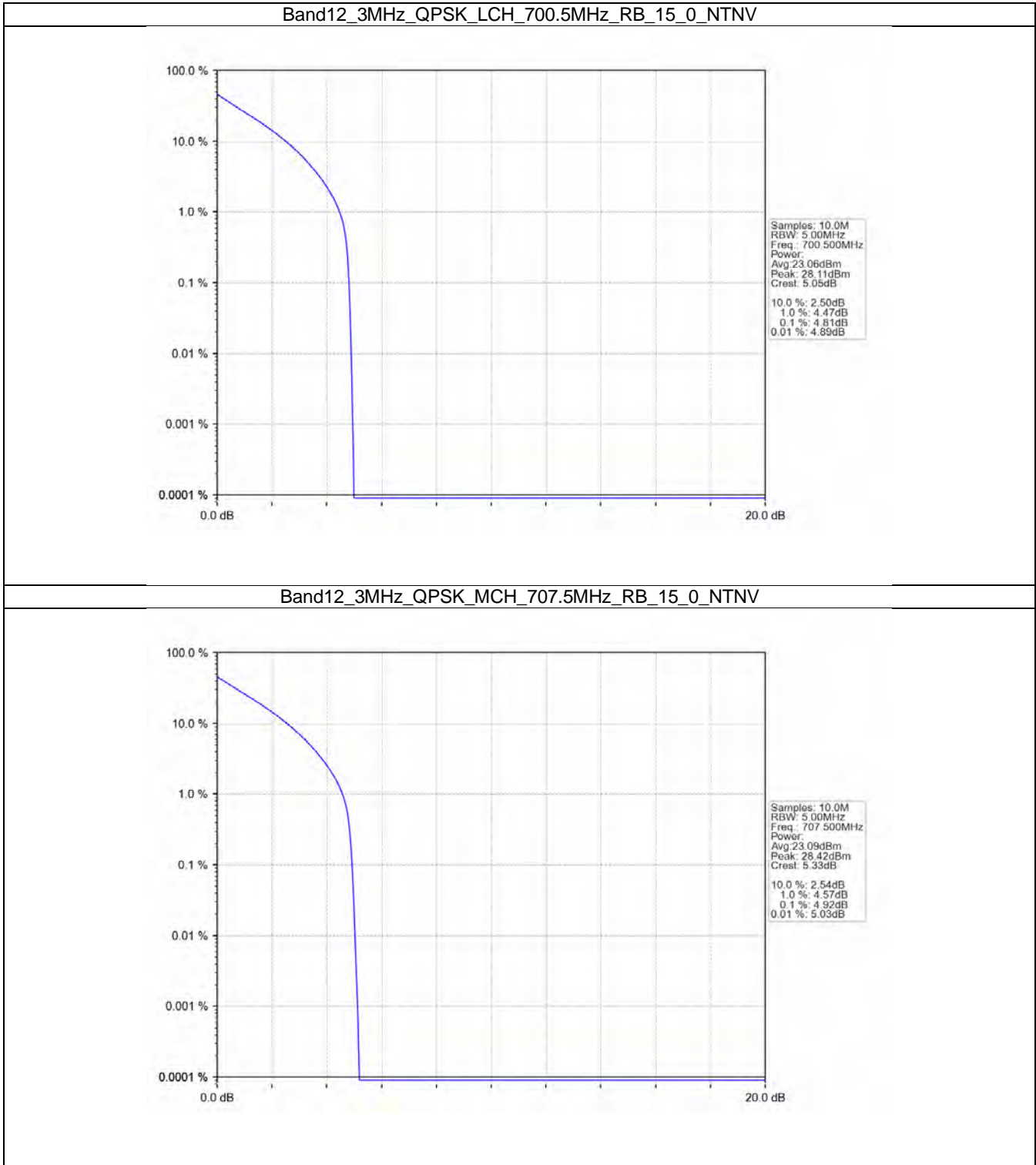


4.2 B12\_3MHz

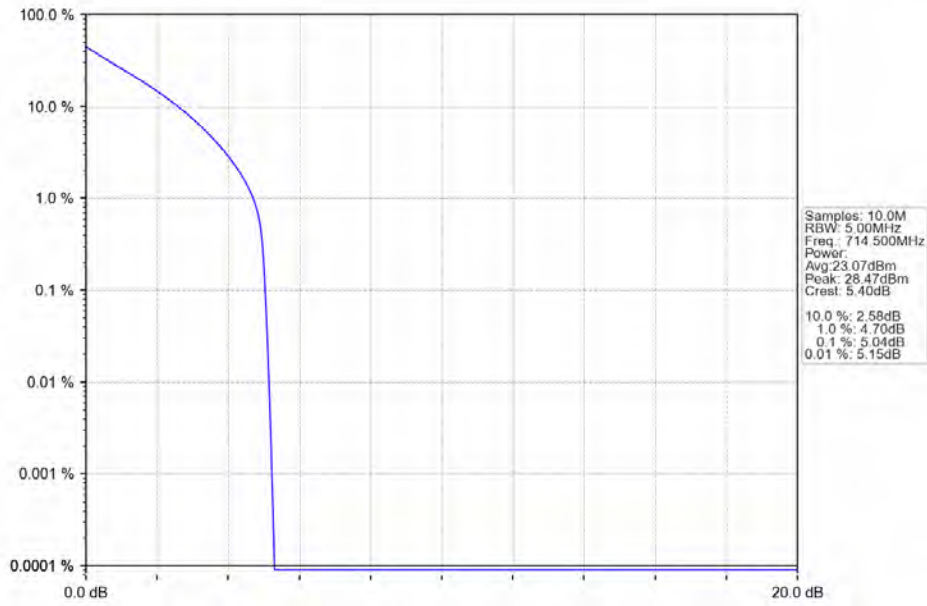
4.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	4.81	<=13	Pass
	707.5	15	0	4.92	<=13	Pass
	714.5	15	0	5.04	<=13	Pass
16QAM	700.5	15	0	6.25	<=13	Pass
	707.5	15	0	6.39	<=13	Pass
	714.5	15	0	6.54	<=13	Pass
64QAM	700.5	15	0	6.24	<=13	Pass
	707.5	15	0	6.39	<=13	Pass
	714.5	15	0	6.54	<=13	Pass

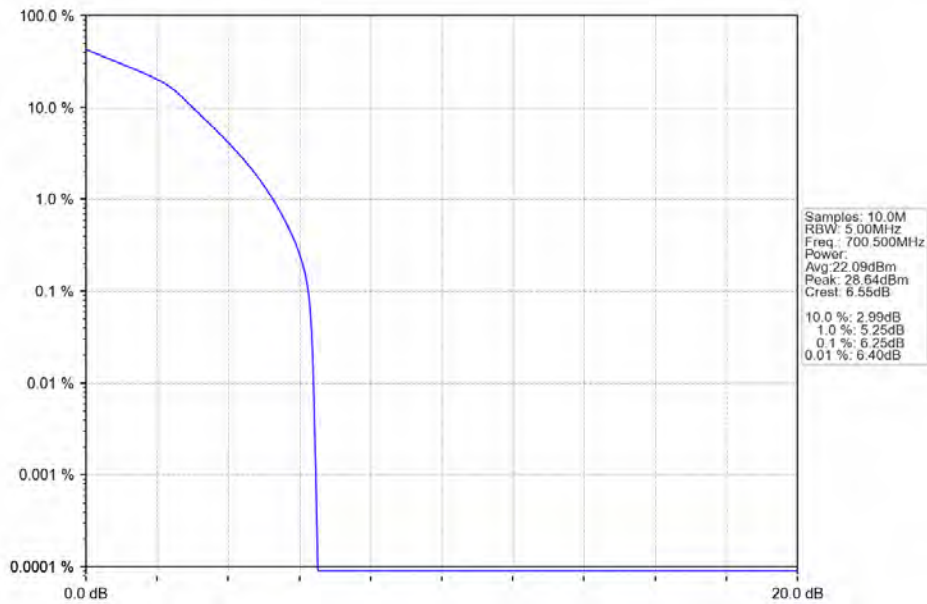
4.2.2 Test Graph



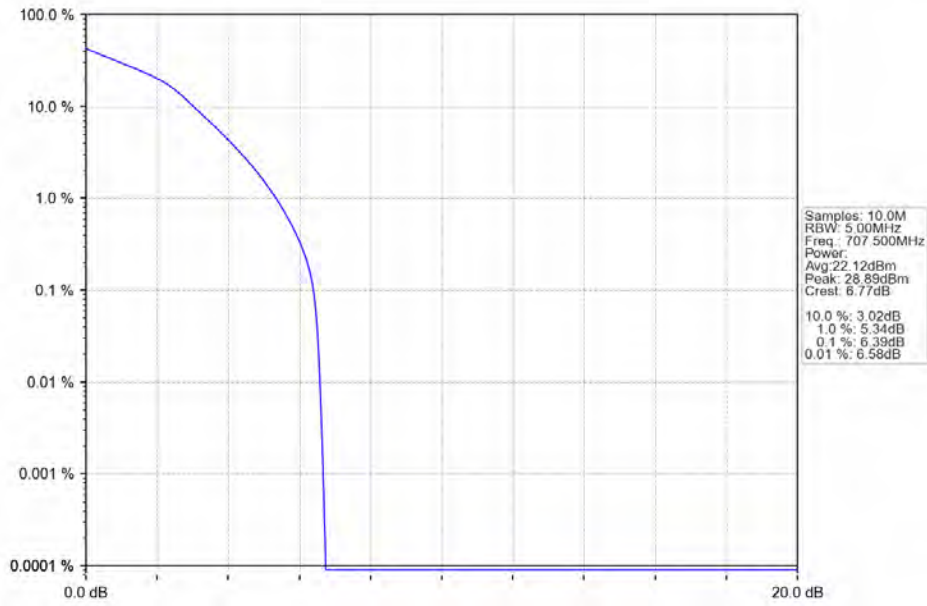
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



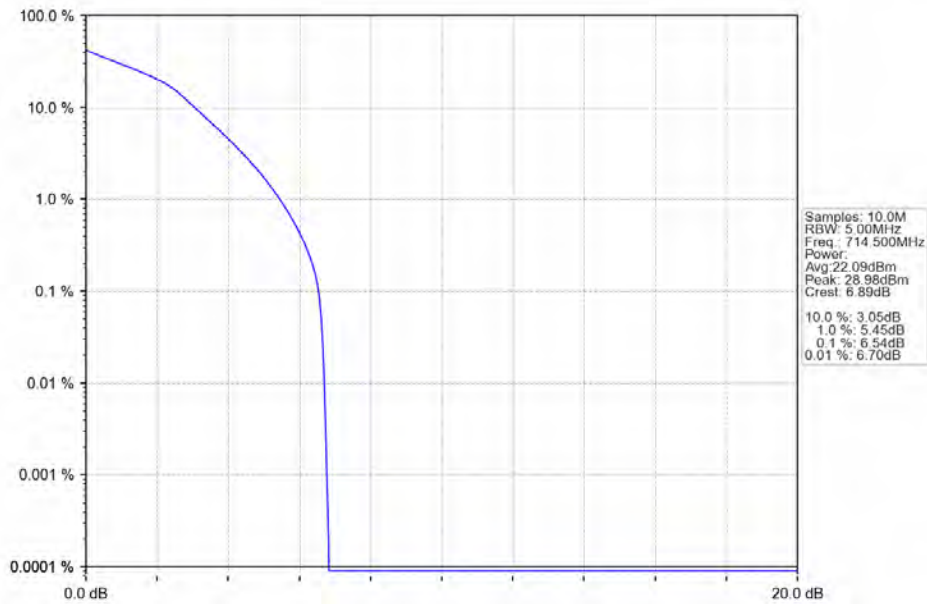
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



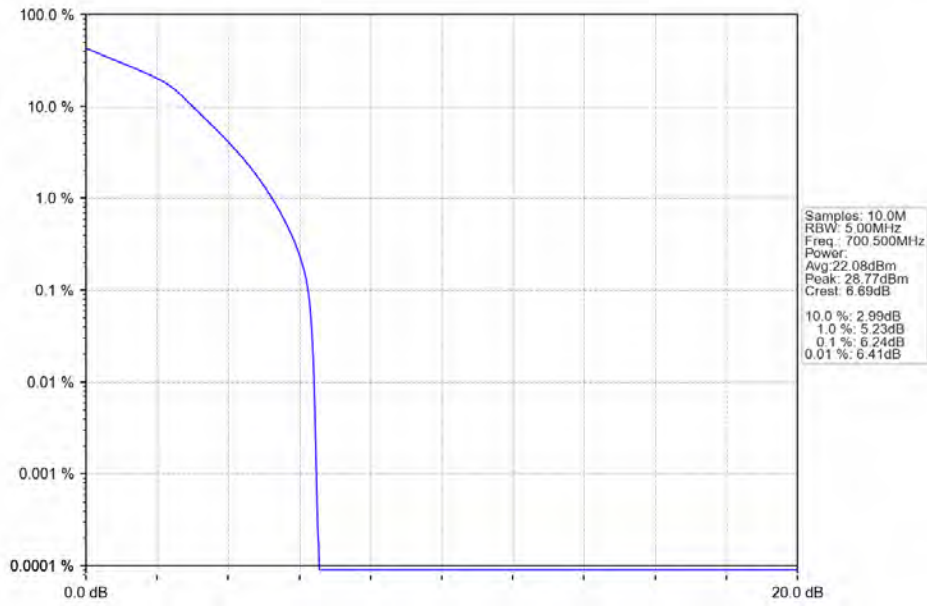
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



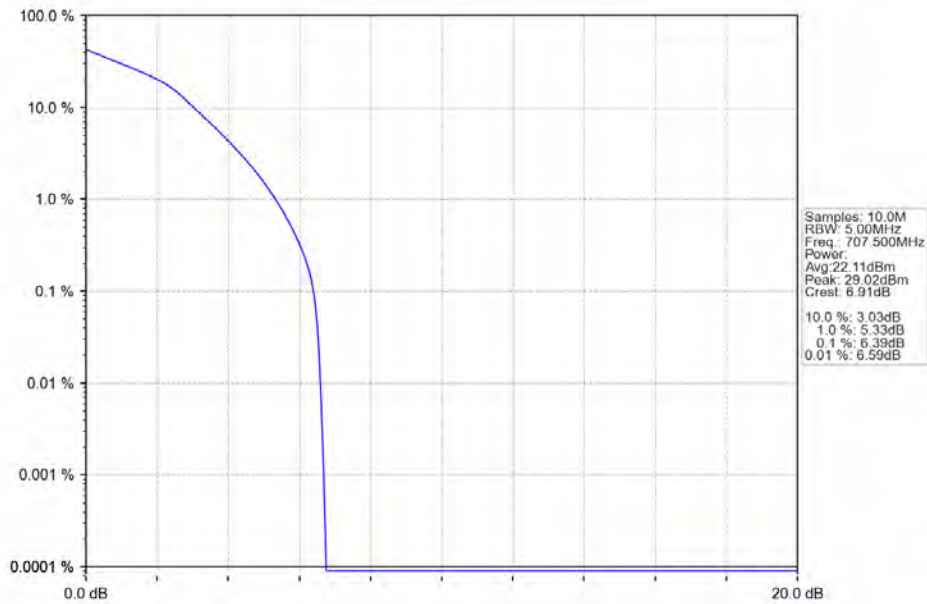
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



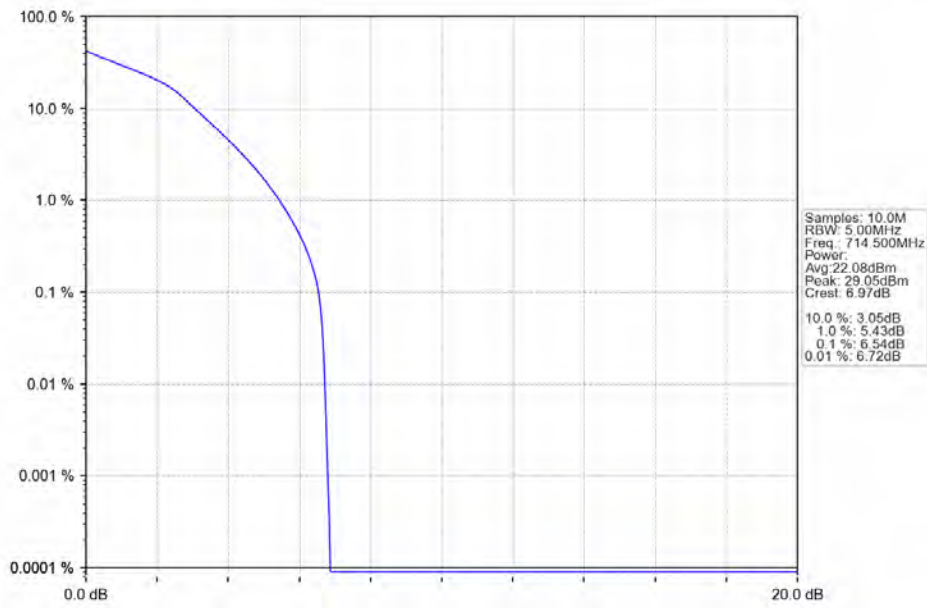
Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



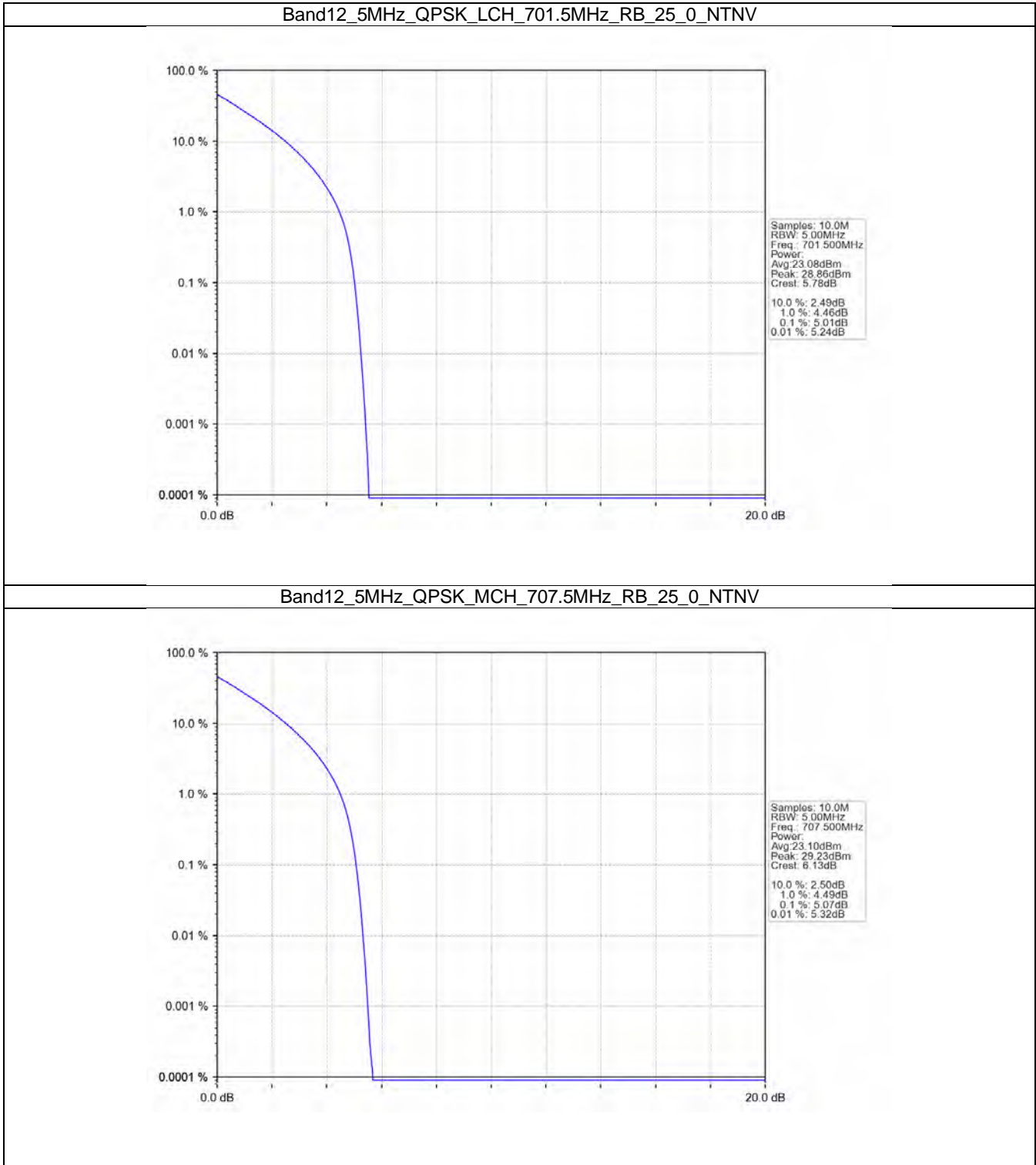
4.3 B12\_5MHz

4.3.1 Test Result

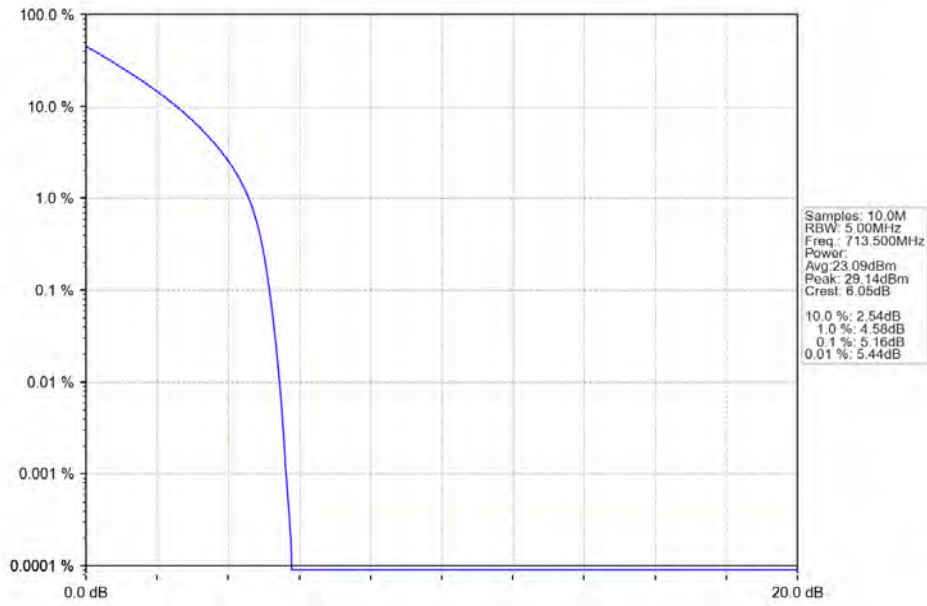
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.01	<=13	Pass
	707.5	25	0	5.07	<=13	Pass
	713.5	25	0	5.16	<=13	Pass
16QAM	701.5	25	0	6.08	<=13	Pass
	707.5	25	0	6.14	<=13	Pass
	713.5	25	0	6.21	<=13	Pass
64QAM	701.5	25	0	6.08	<=13	Pass
	707.5	25	0	6.14	<=13	Pass
	713.5	25	0	6.21	<=13	Pass



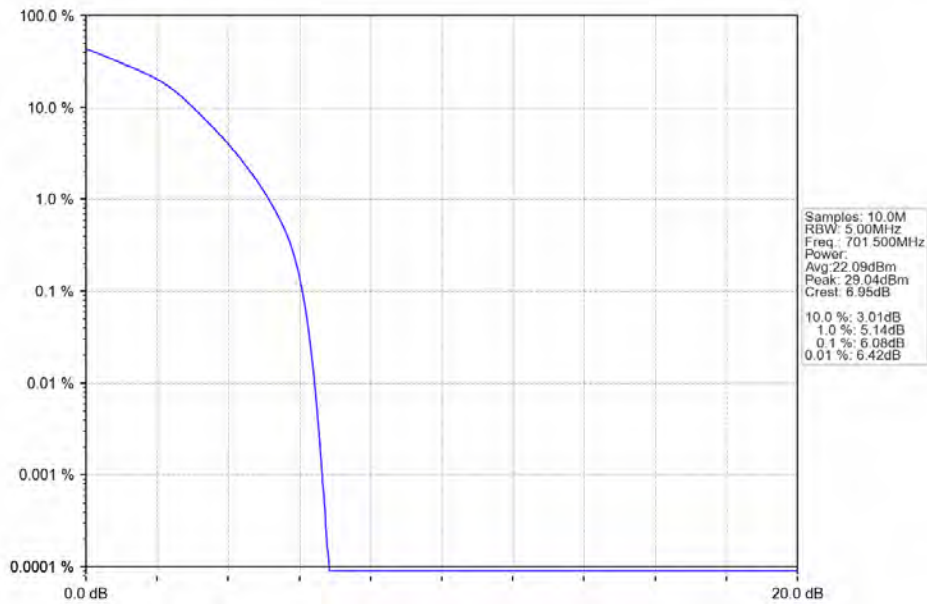
4.3.2 Test Graph



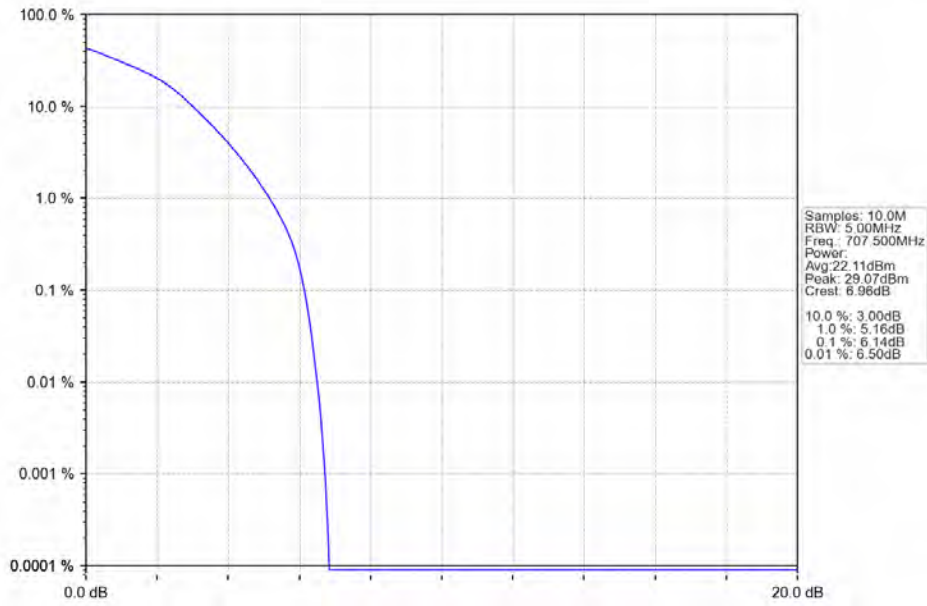
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



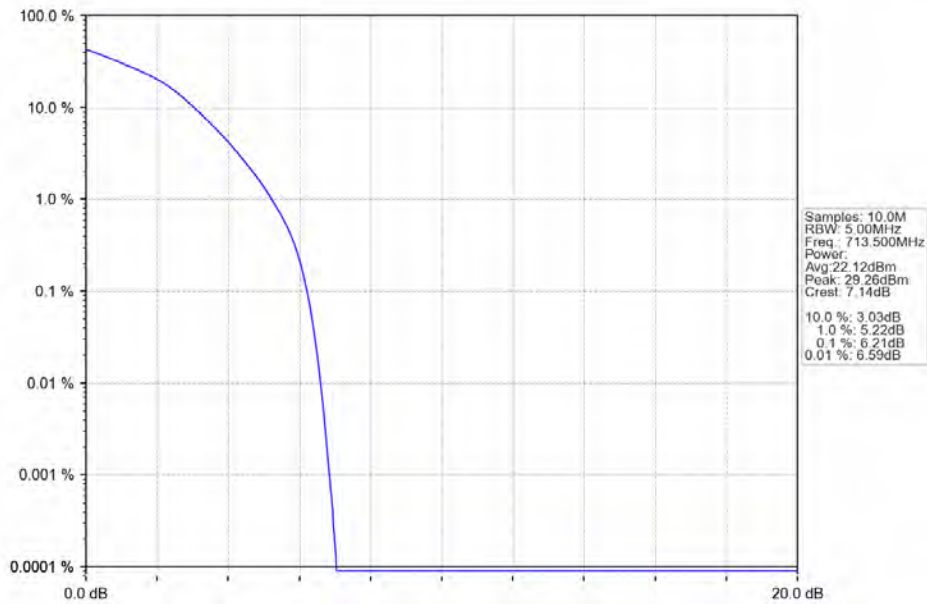
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



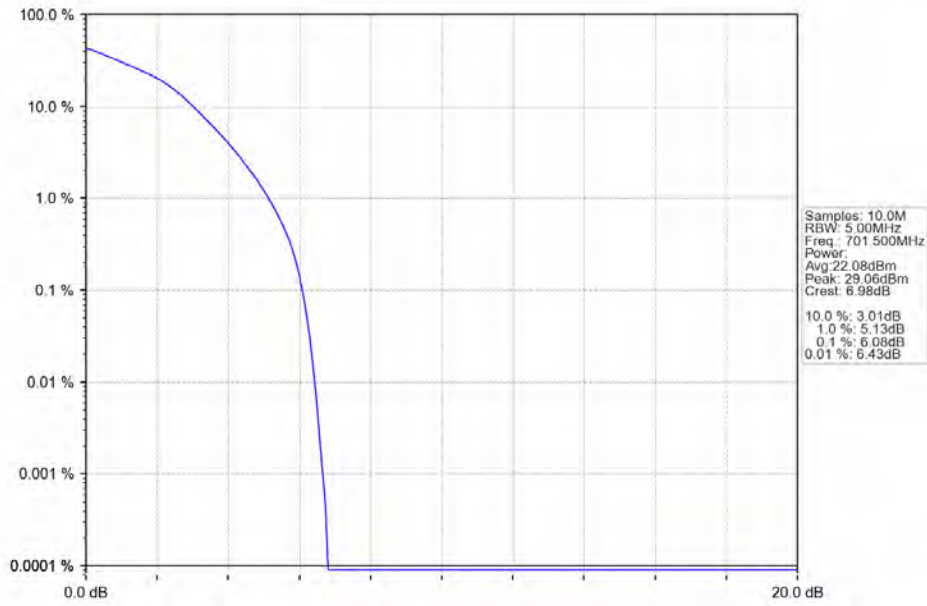
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



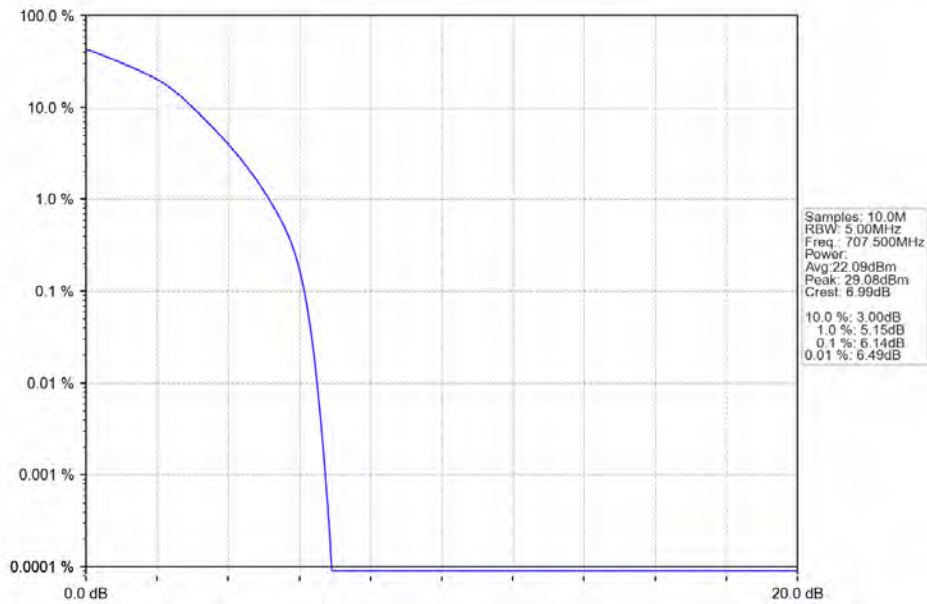
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



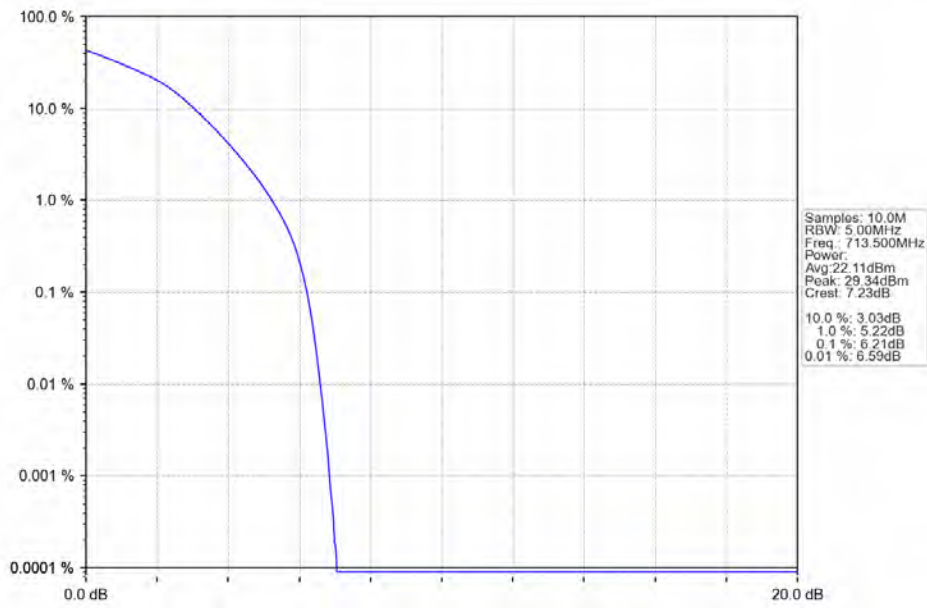
Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_64QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

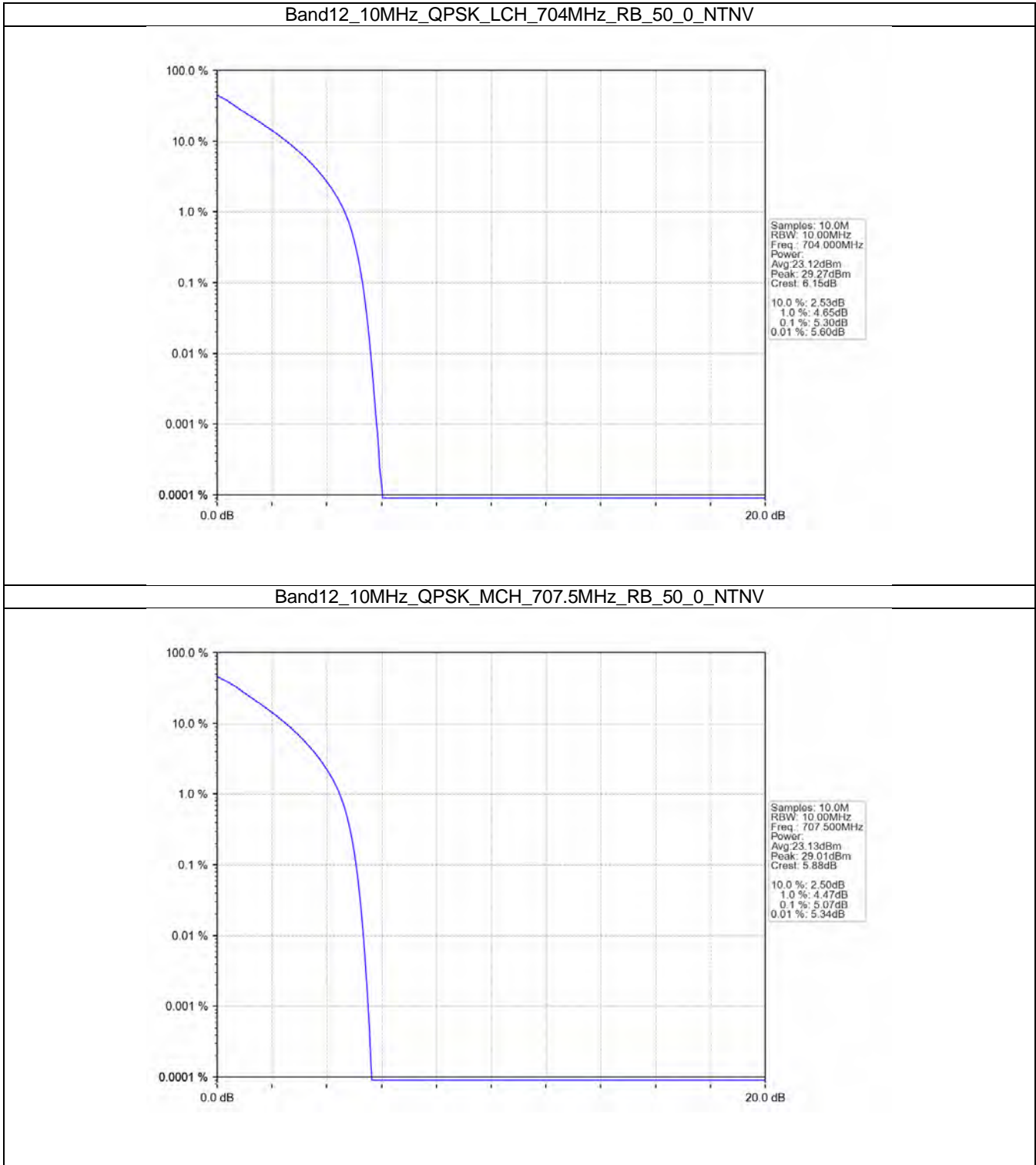


4.4 B12\_10MHz

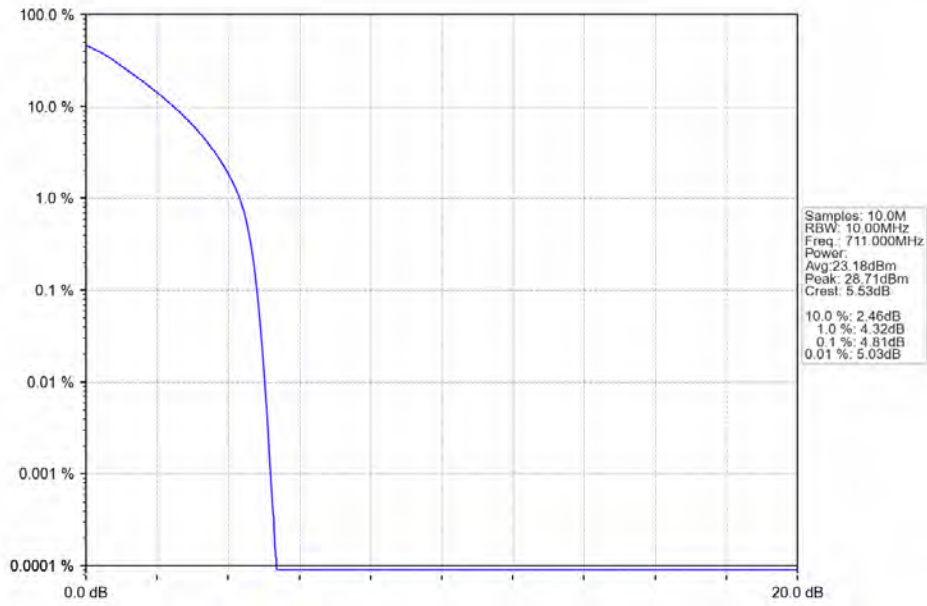
4.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.30	<=13	Pass
	707.5	50	0	5.07	<=13	Pass
	711	50	0	4.81	<=13	Pass
16QAM	704	50	0	6.32	<=13	Pass
	707.5	50	0	6.11	<=13	Pass
	711	50	0	5.96	<=13	Pass
64QAM	704	50	0	6.31	<=13	Pass
	707.5	50	0	6.11	<=13	Pass
	711	50	0	5.95	<=13	Pass

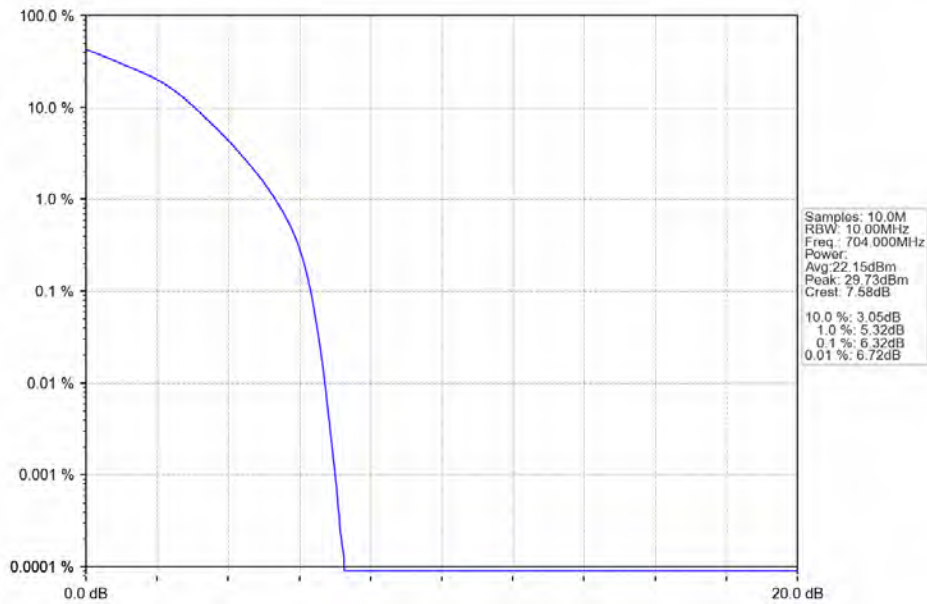
4.4.2 Test Graph



Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV

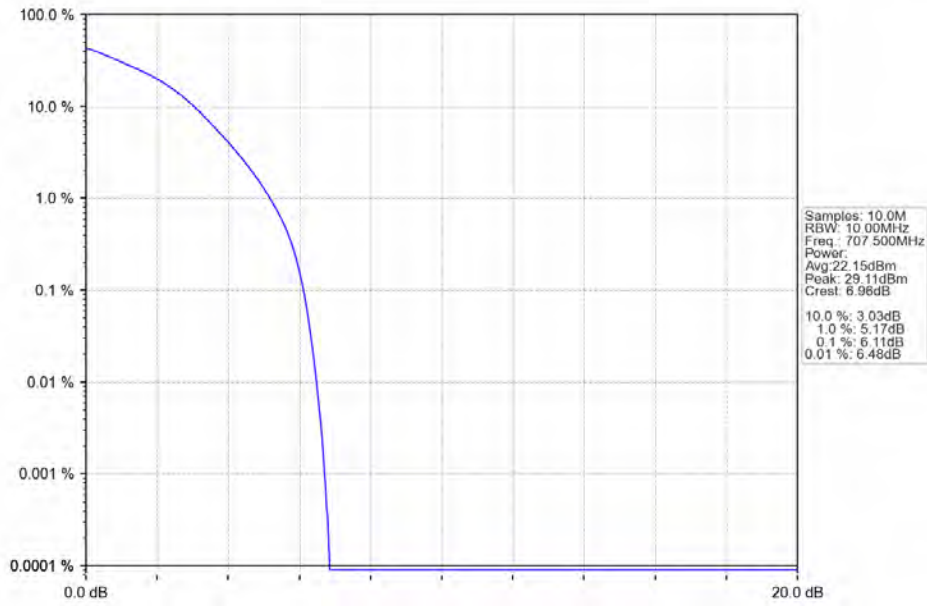


Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV

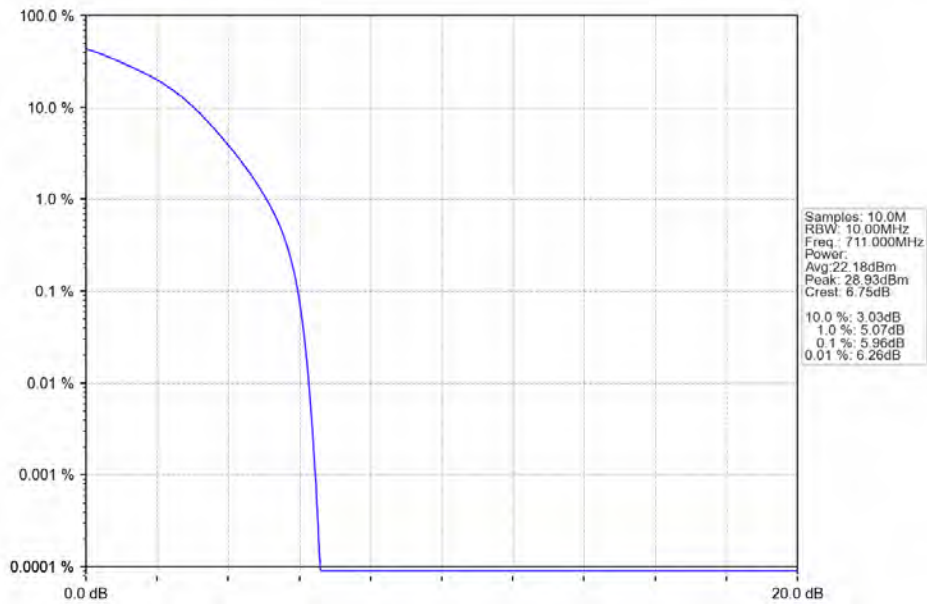




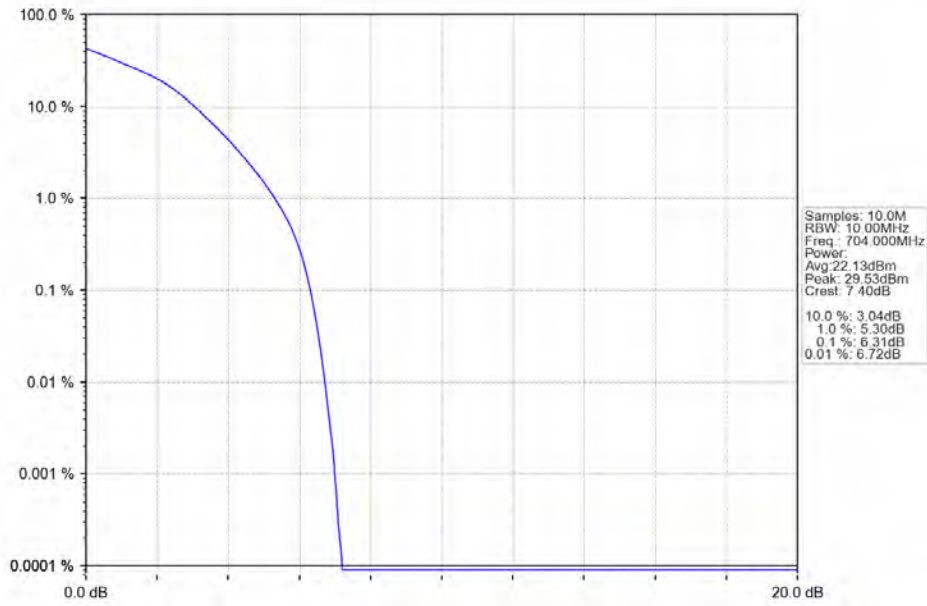
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



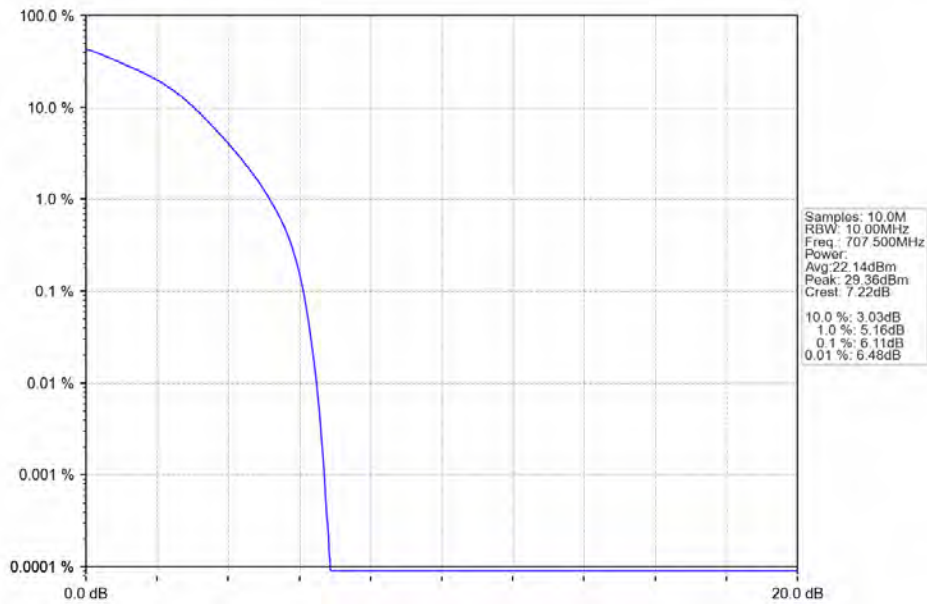
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



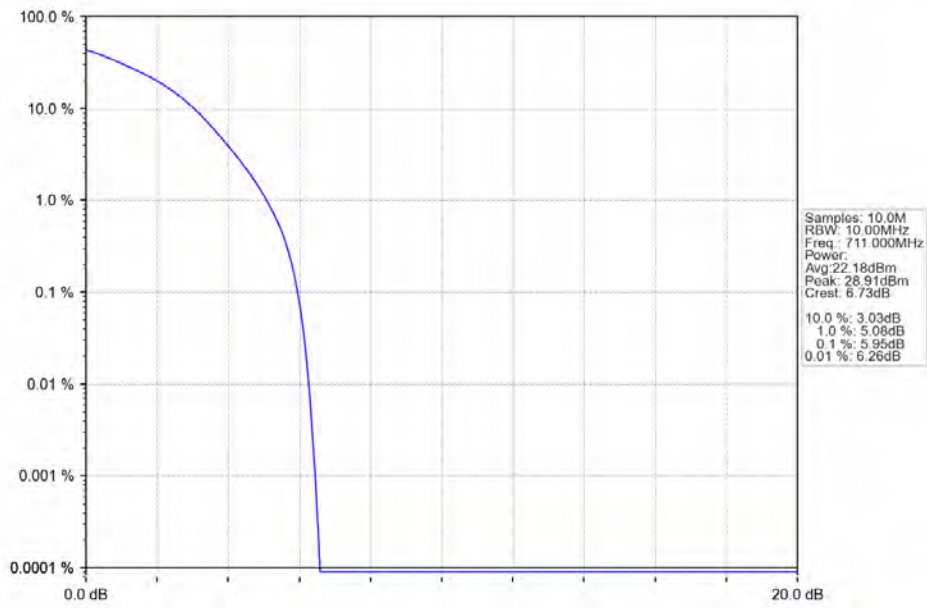
Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTV



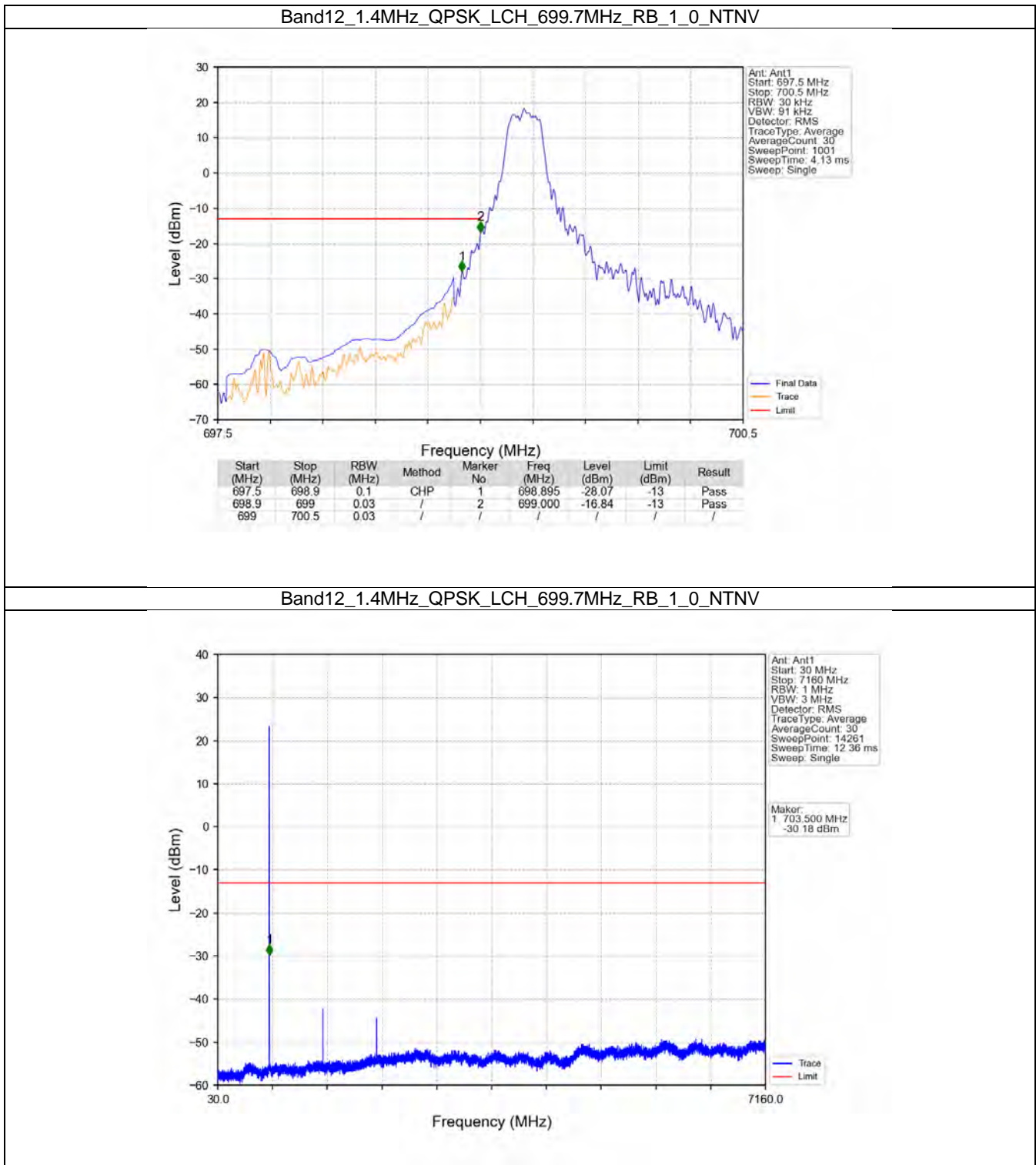
## 5. Spurious Emission

### 5.1 B12\_1.4MHz

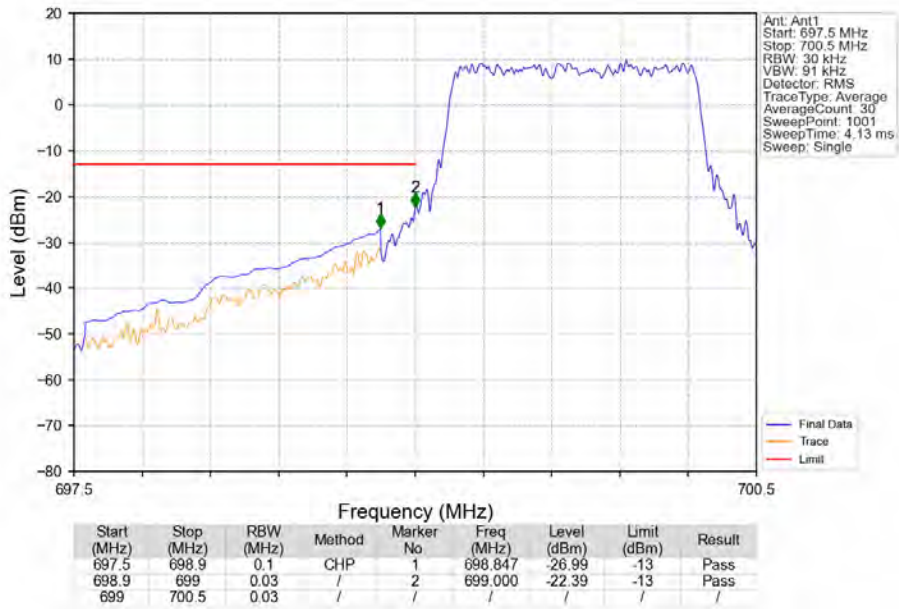
#### 5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
64QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

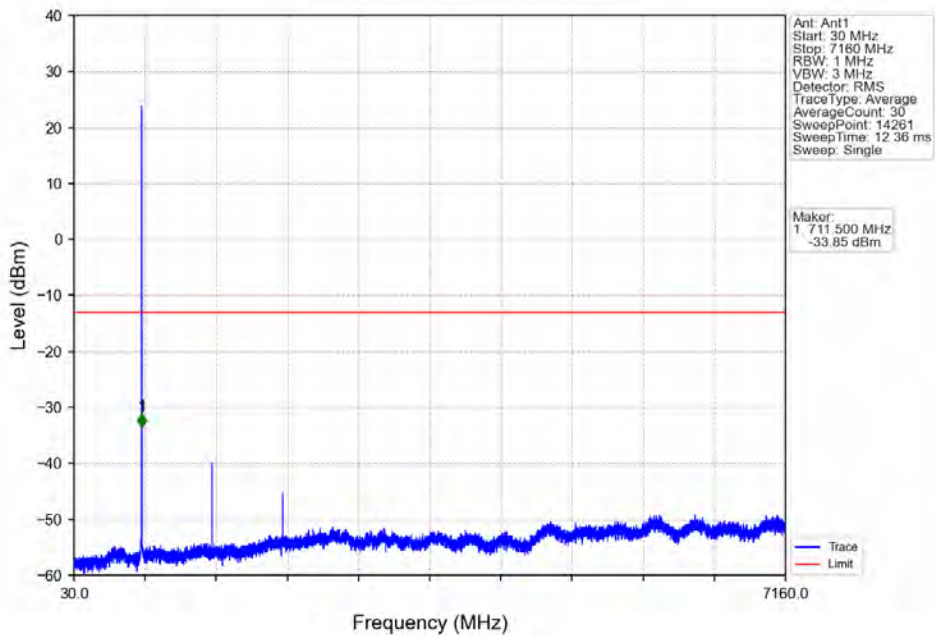
5.1.2 Test Graph



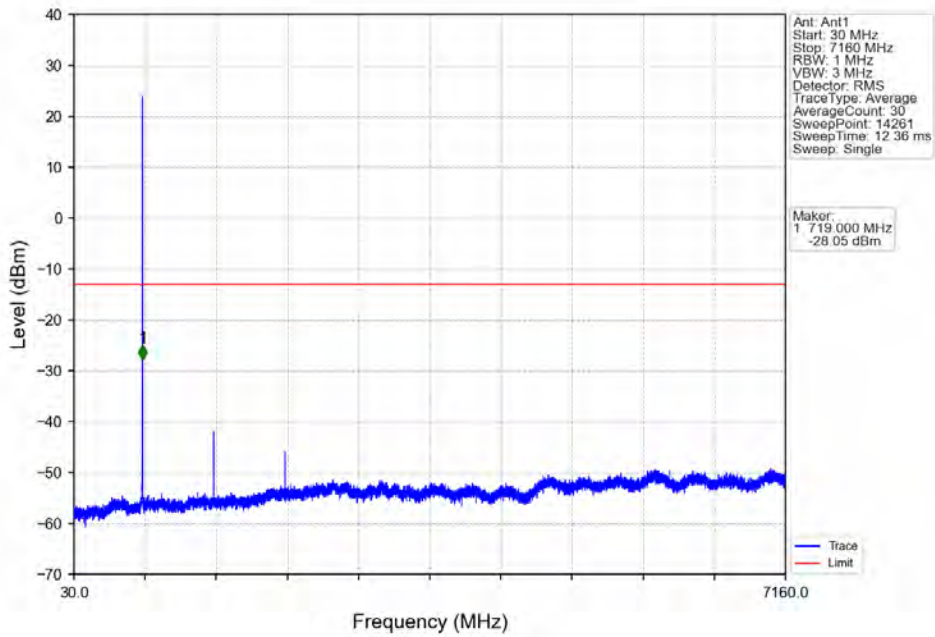
Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



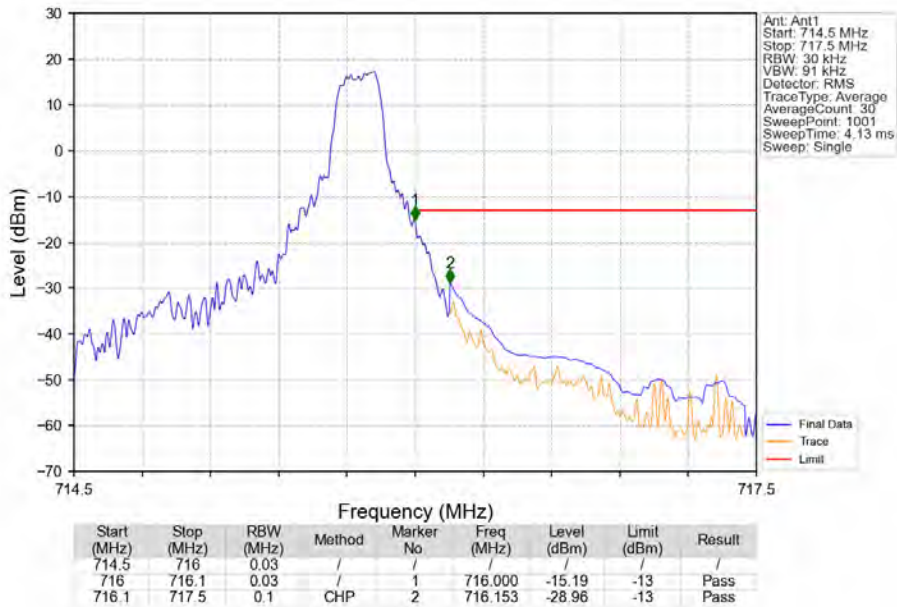
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



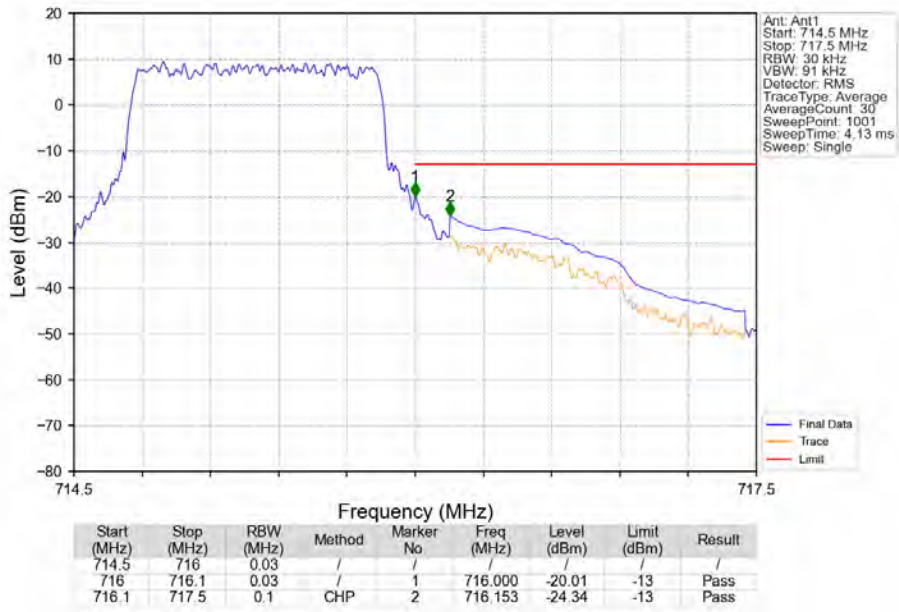
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



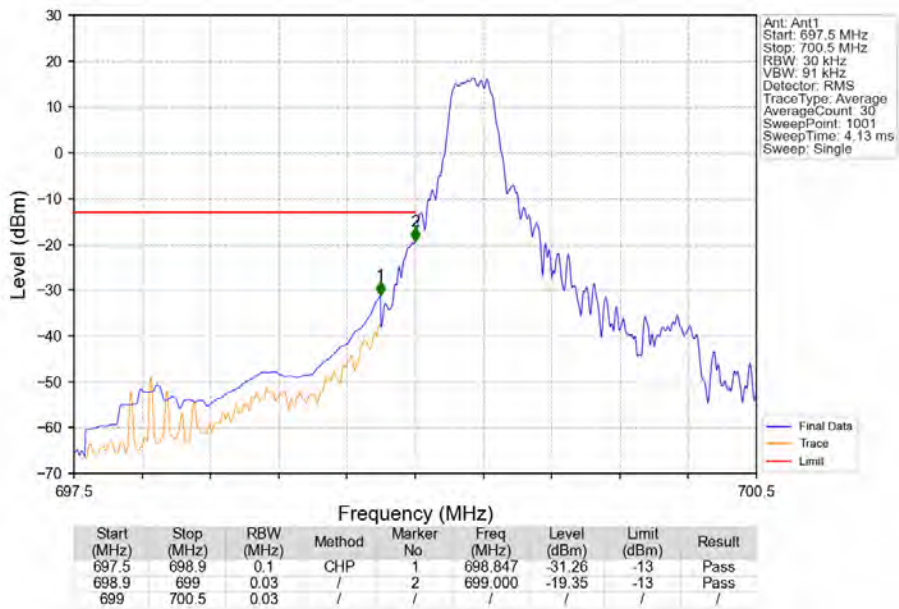
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV

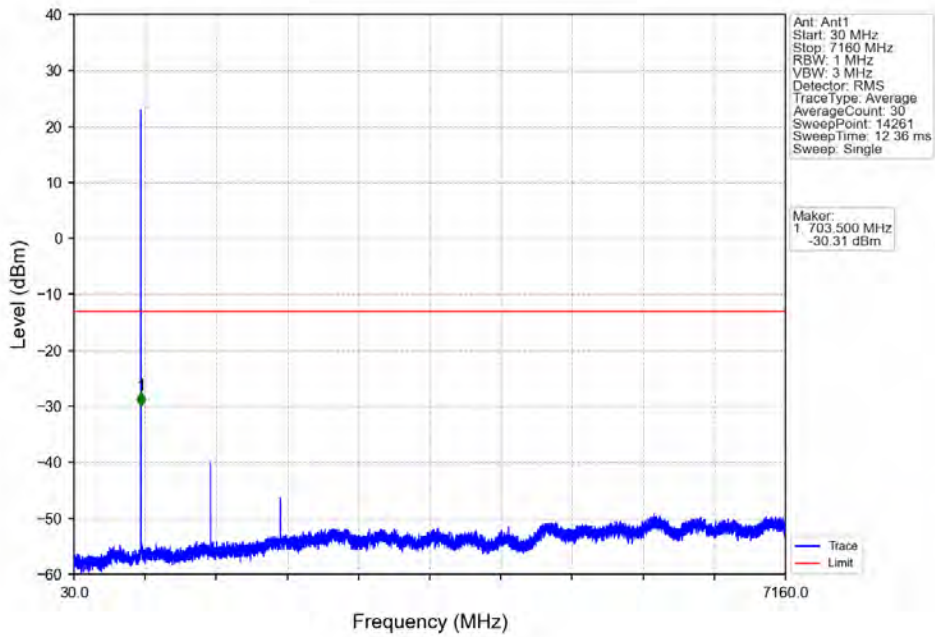


Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

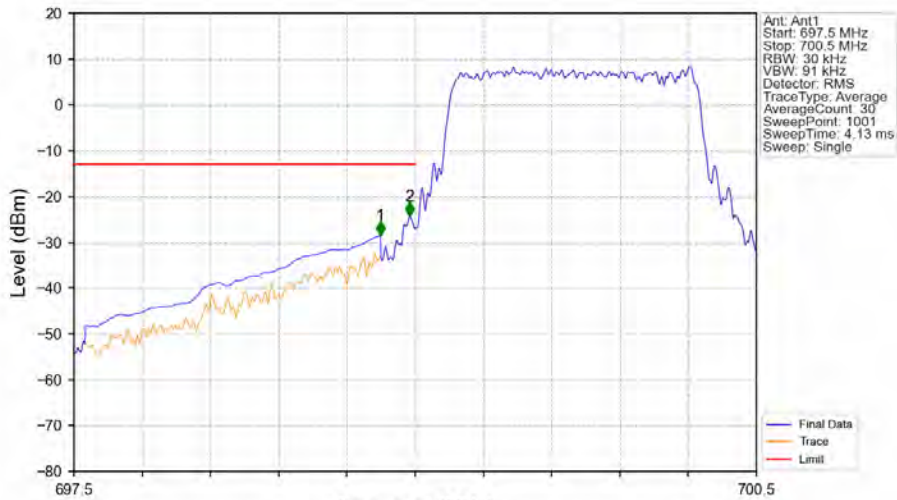




Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

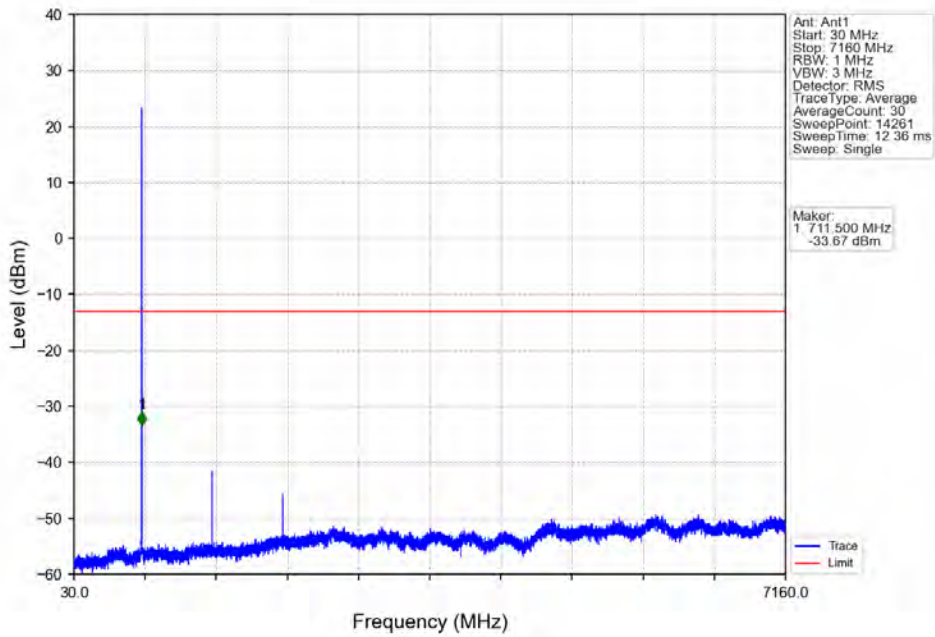


Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

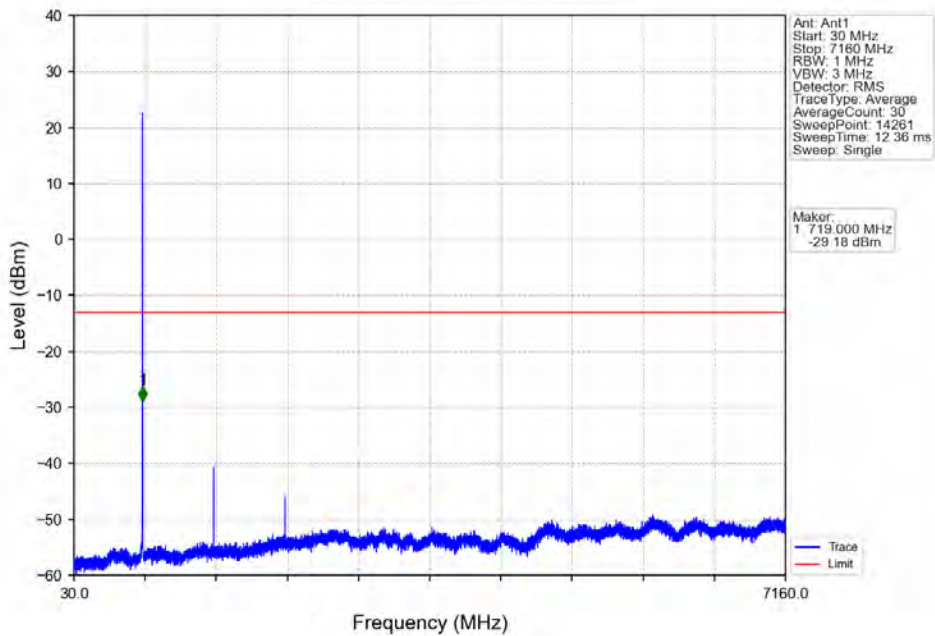


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-28.48	-13	Pass
698.9	699	0.03	/	2	698.976	-24.34	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

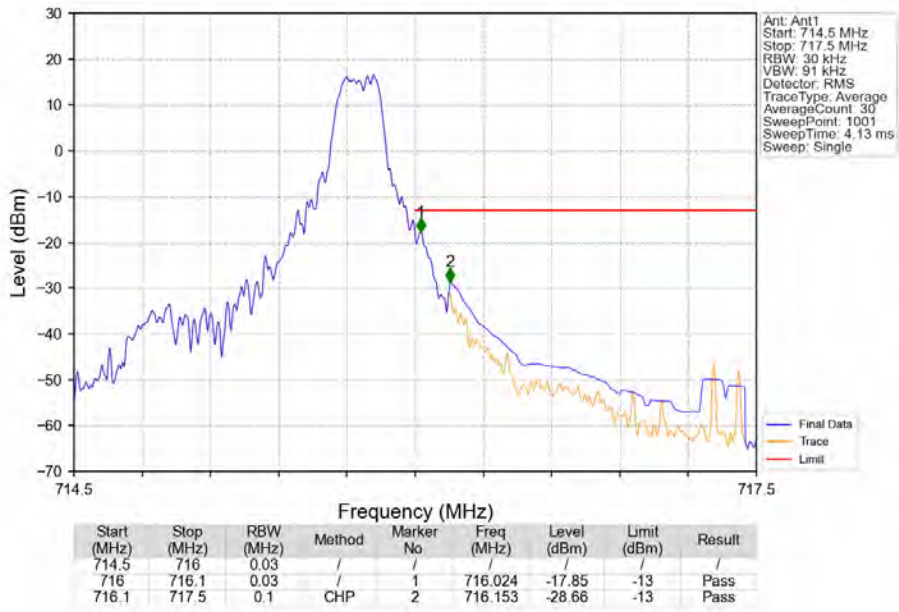
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



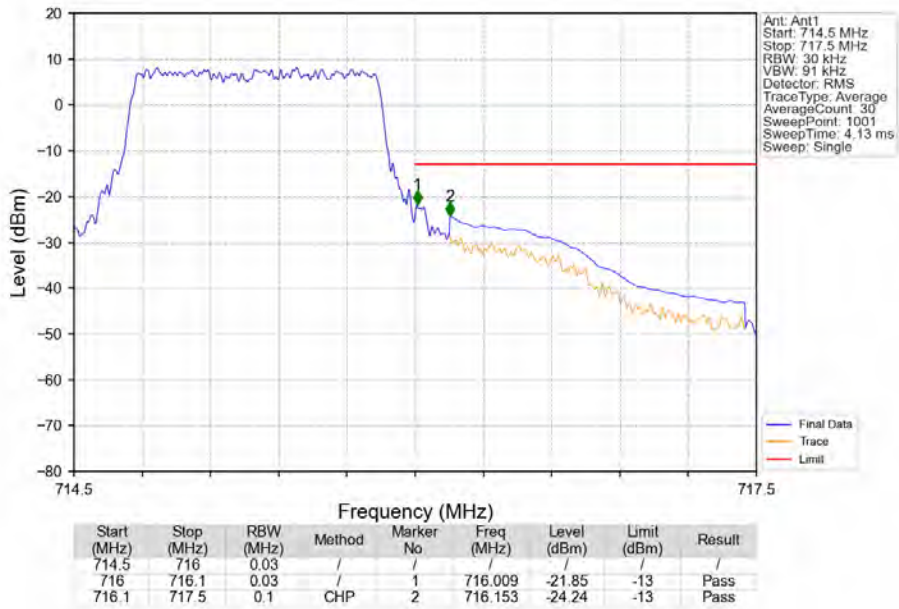
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



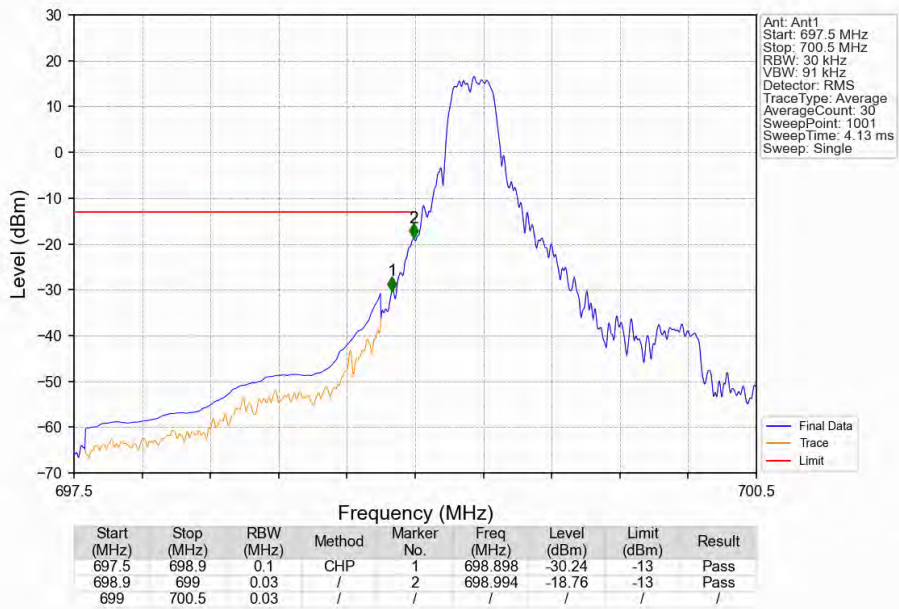
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



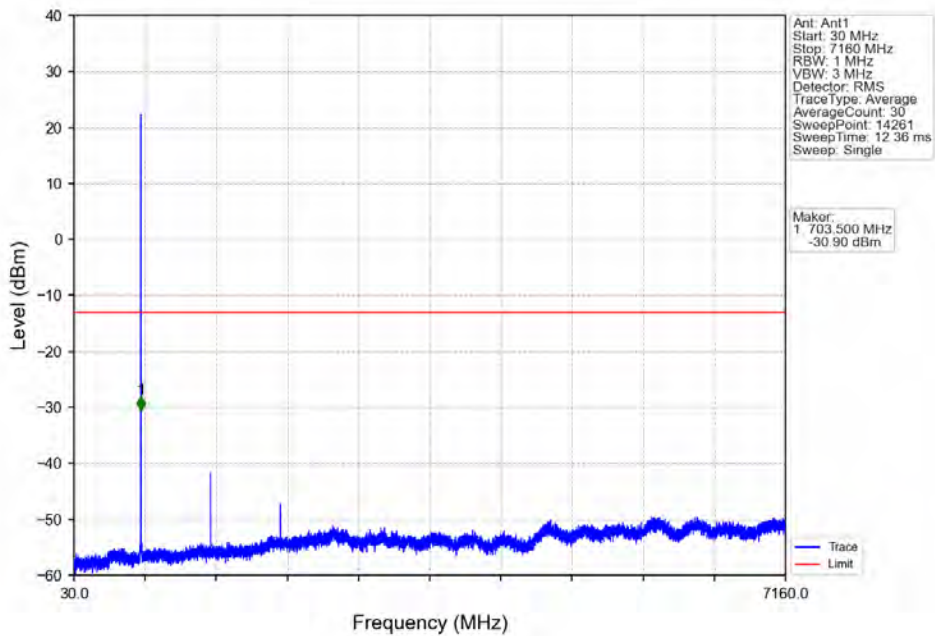
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



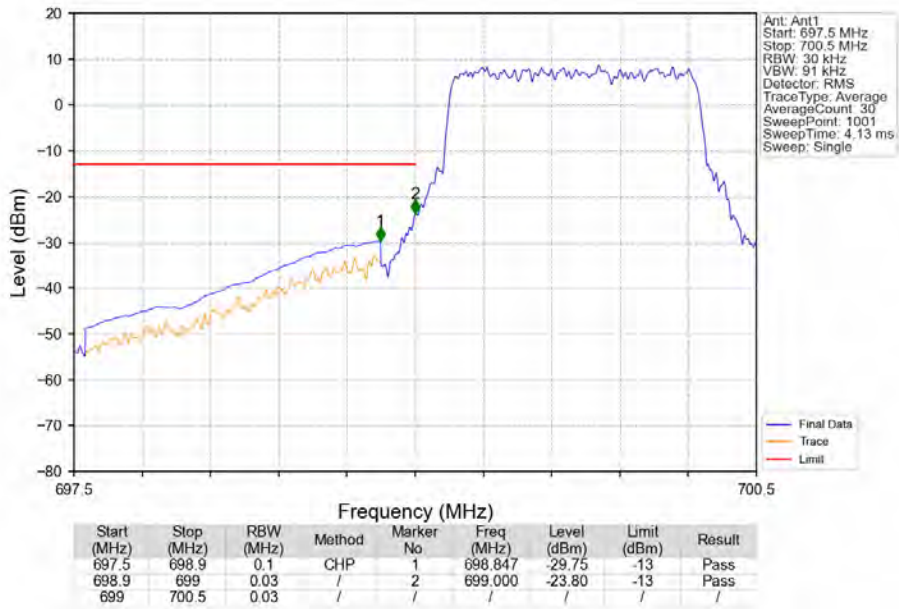
Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



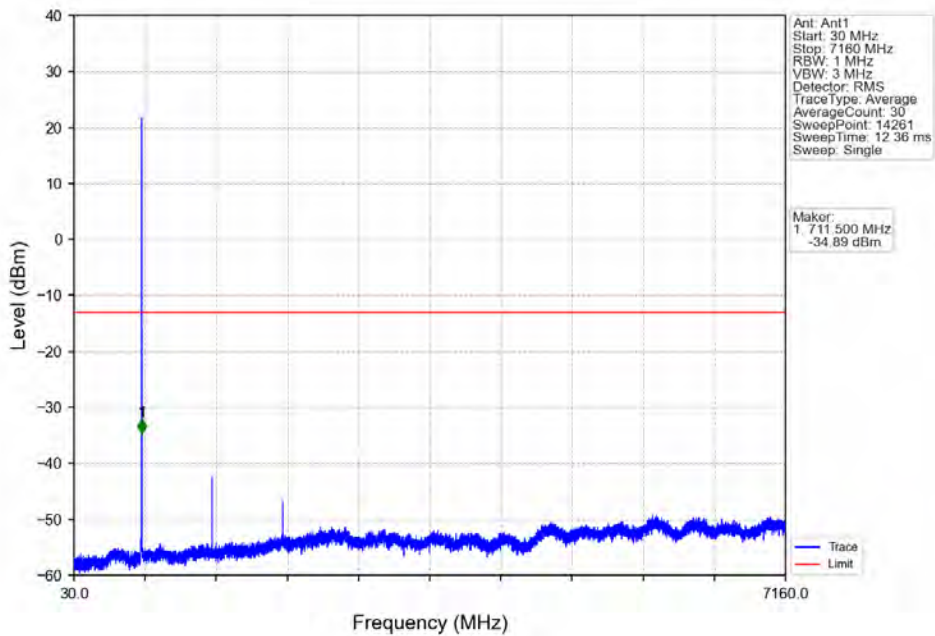
Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



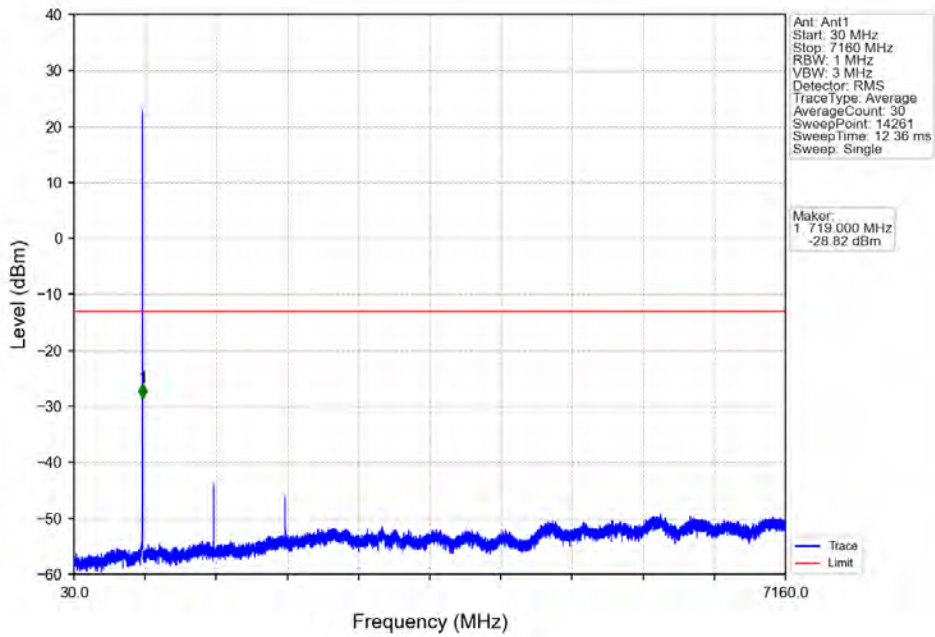
Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



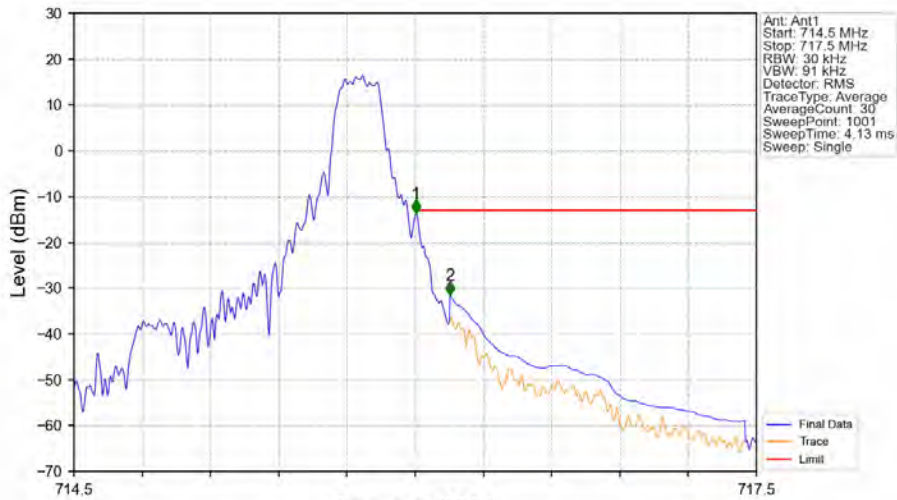
Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV

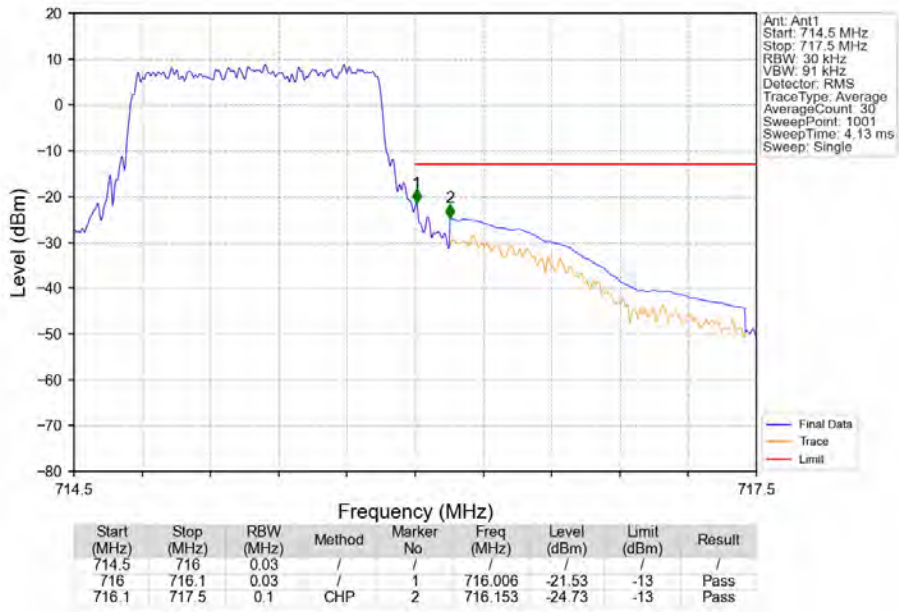


Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.003	-13.74	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-31.52	-13	Pass

Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



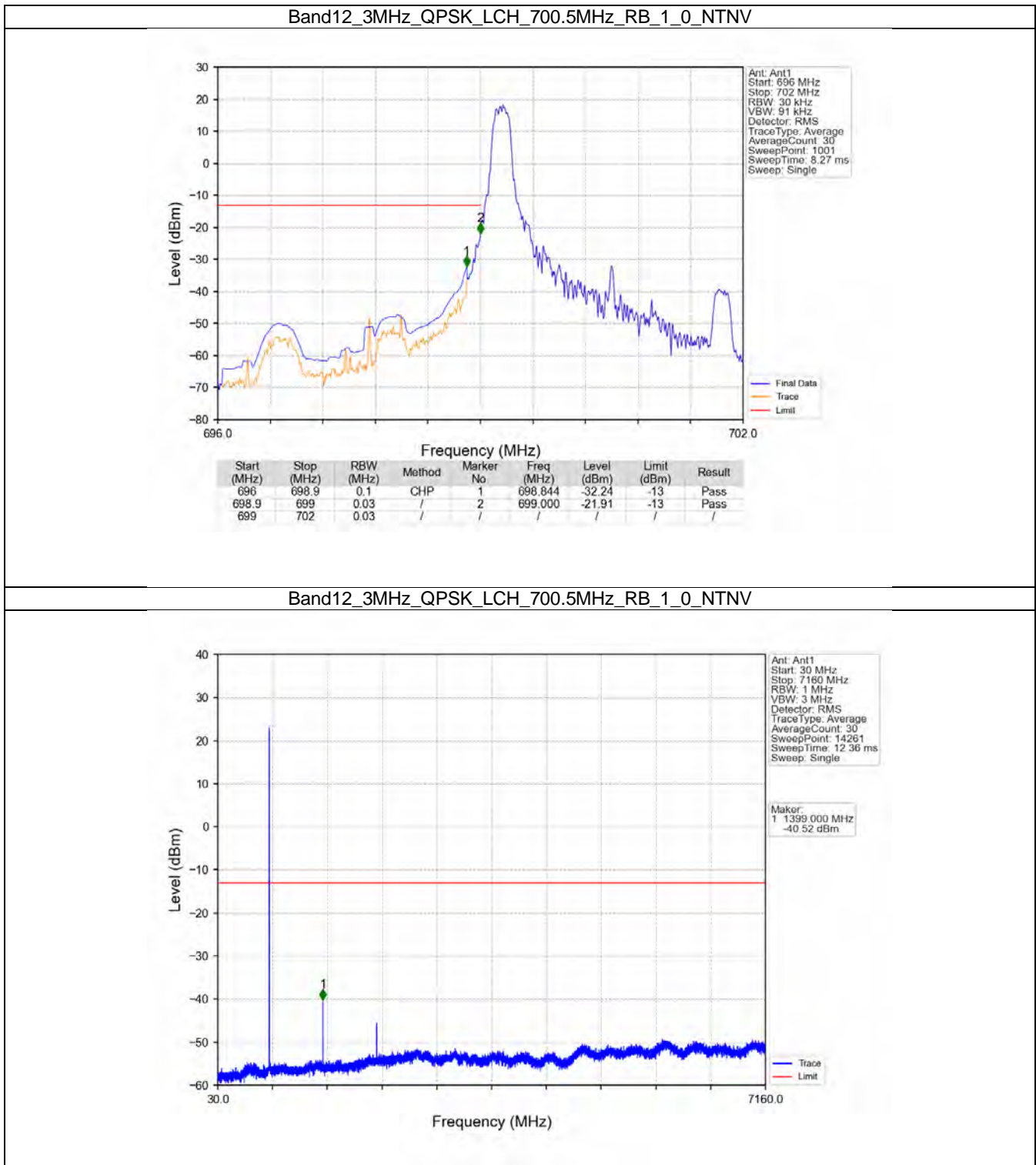
5.2 B12\_3MHz

5.2.1 Test Result

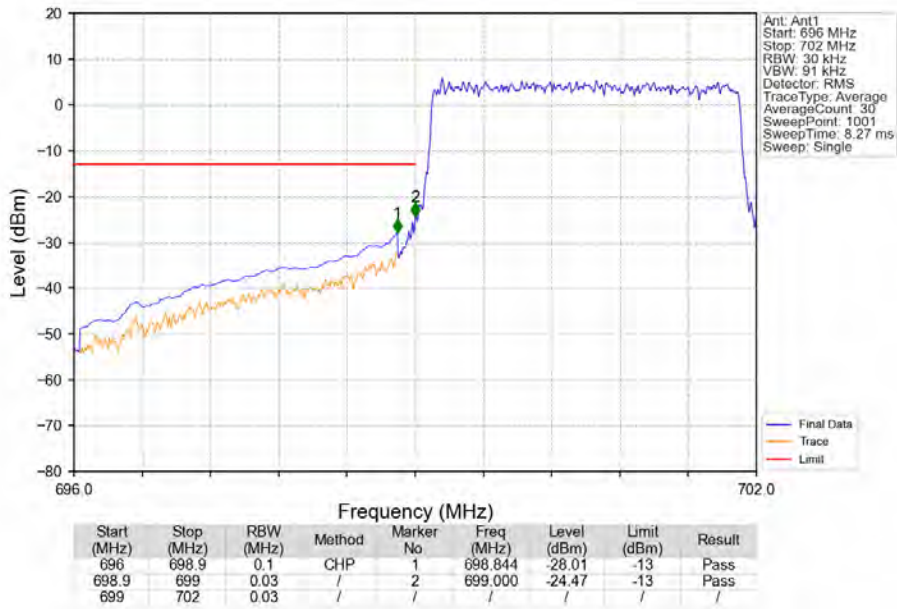
Band: 12 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		714.5	1	0	Refer To Test Graph	
				14	Refer To Test Graph	
			15	0	Refer To Test Graph	
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		714.5	1	0	Refer To Test Graph	
				14	Refer To Test Graph	
			15	0	Refer To Test Graph	
64QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		714.5	1	0	Refer To Test Graph	
				14	Refer To Test Graph	
			15	0	Refer To Test Graph	



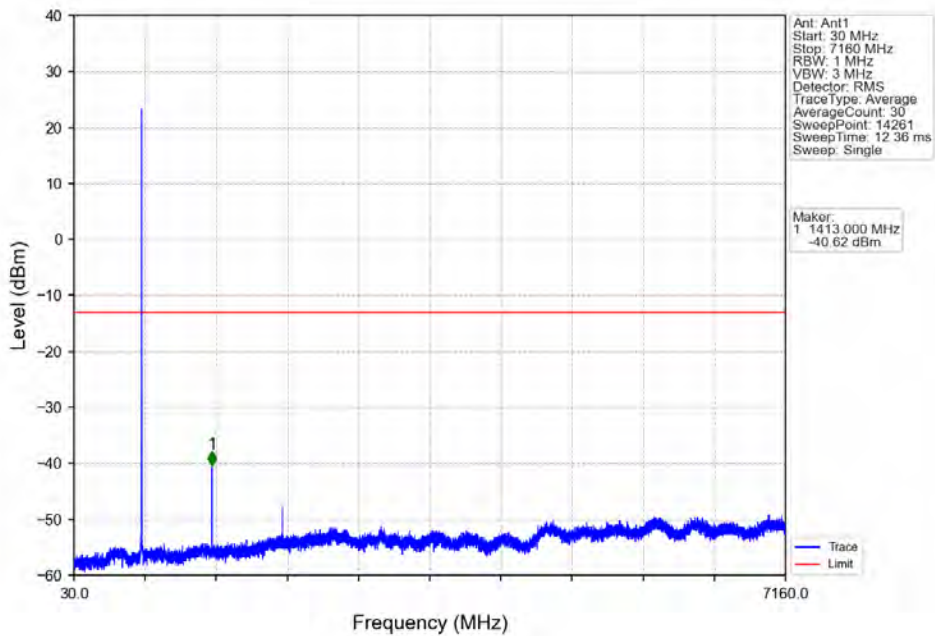
5.2.2 Test Graph



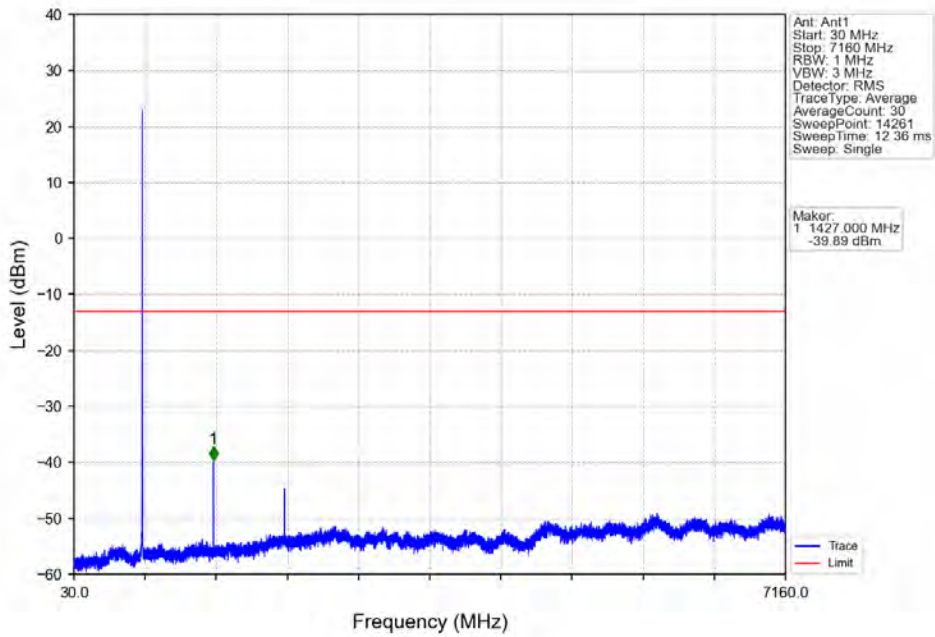
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



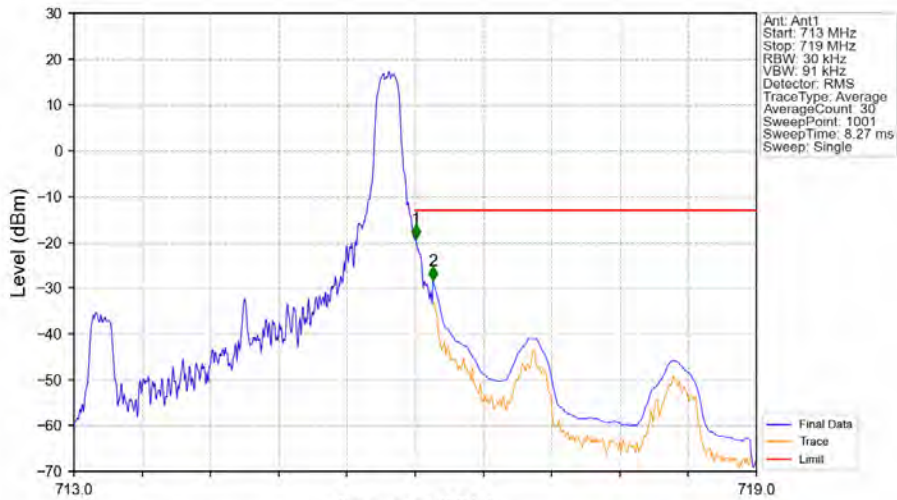
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_0\_NTNV

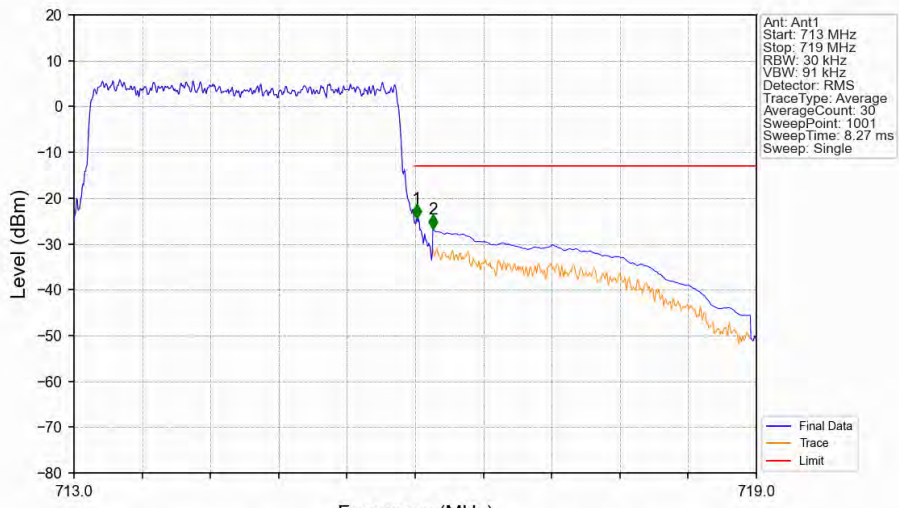


Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



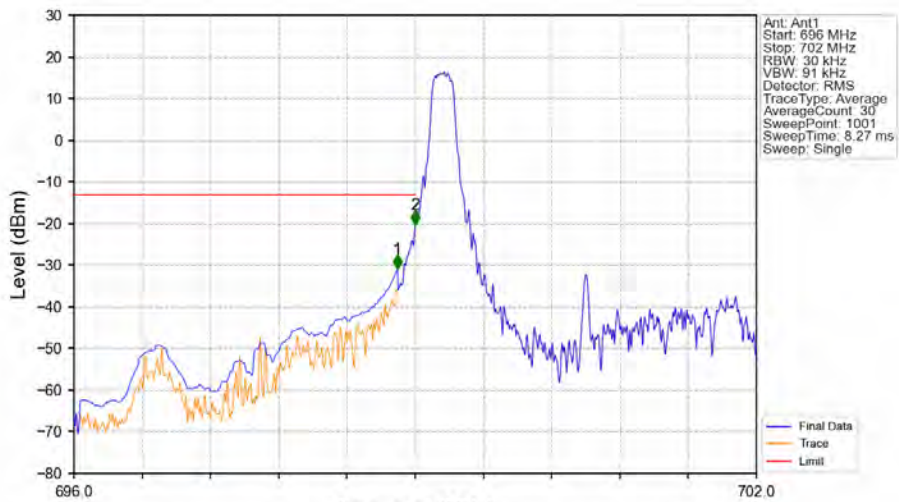
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.006	-19.26	-13	Pass
716.1	719	0.1	CHP	2	716.156	-28.39	-13	Pass

Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



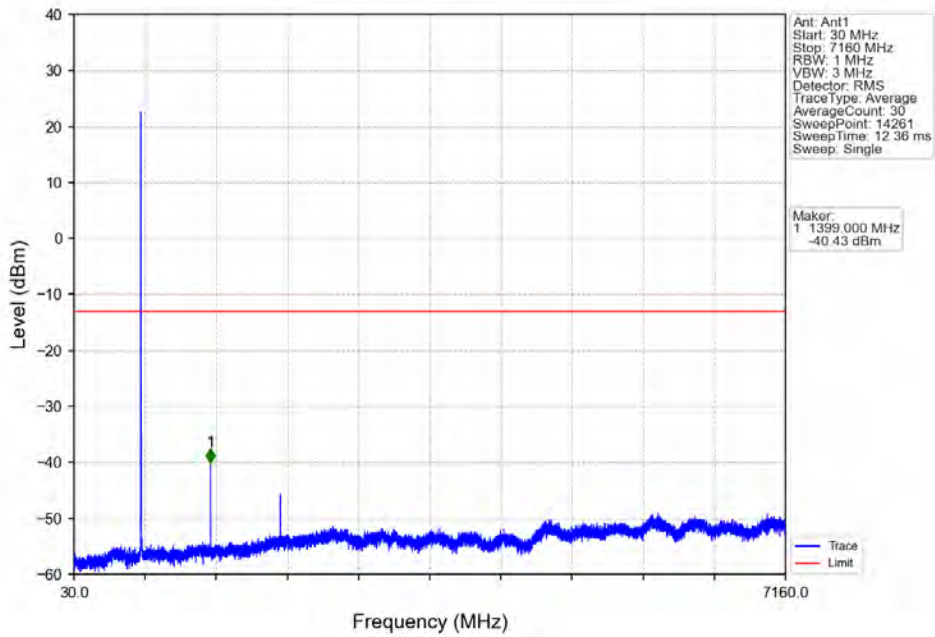
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-24.49	-13	Pass
716.1	719	0.1	CHP	2	716.156	-26.72	-13	Pass

Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV

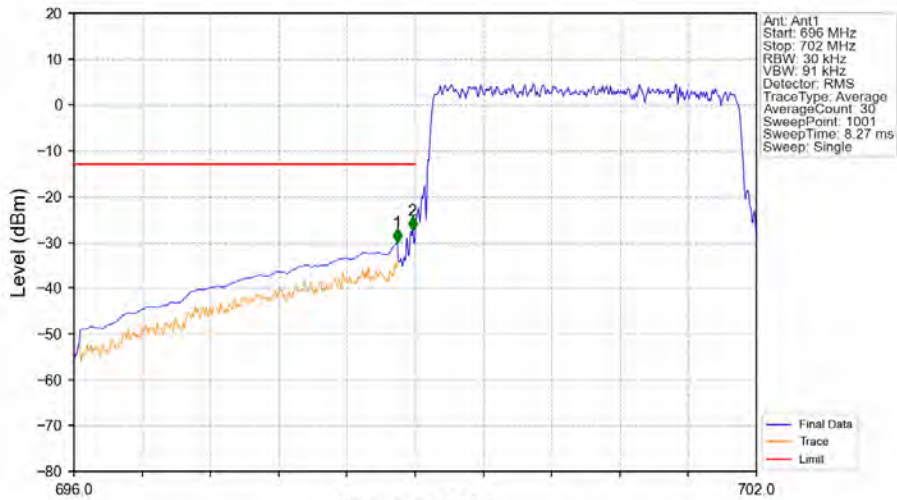


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-31.00	-13	Pass
698.9	699	0.03	/	2	699.000	-20.26	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV

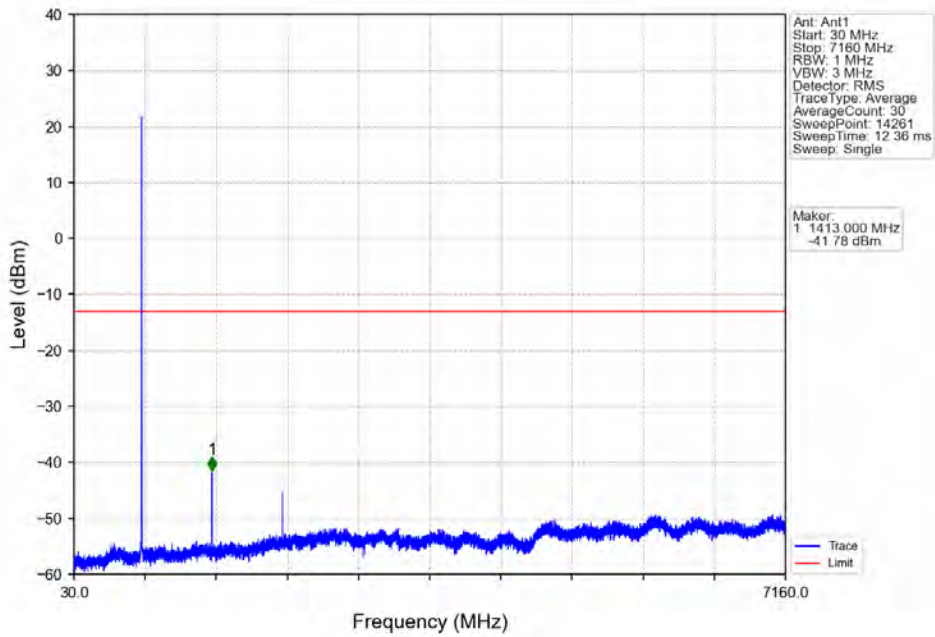


Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

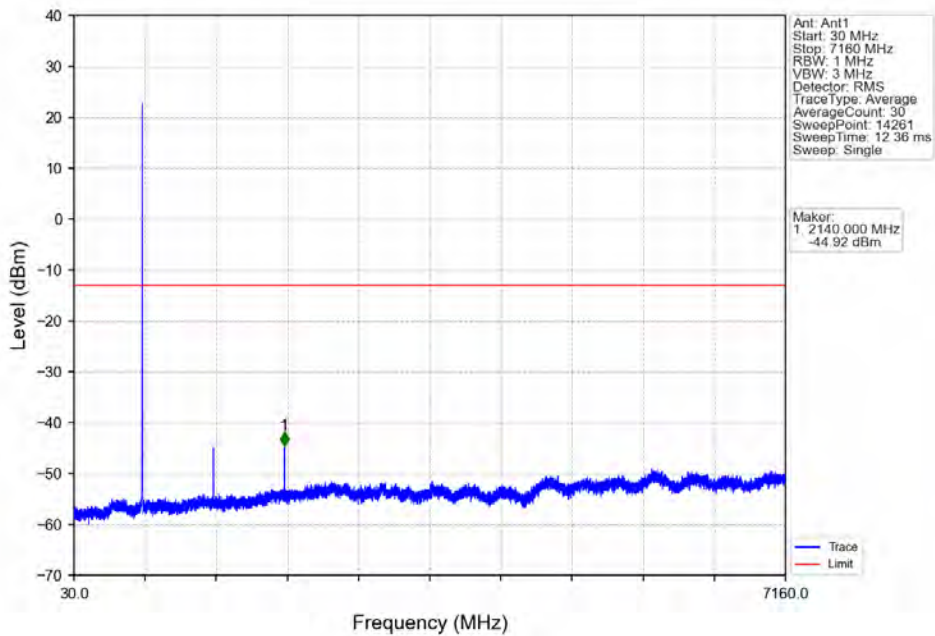


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-30.06	-13	Pass
698.9	699	0.03	/	2	698.976	-27.43	-13	Pass
699	702	0.03	/	/	/	/	/	/

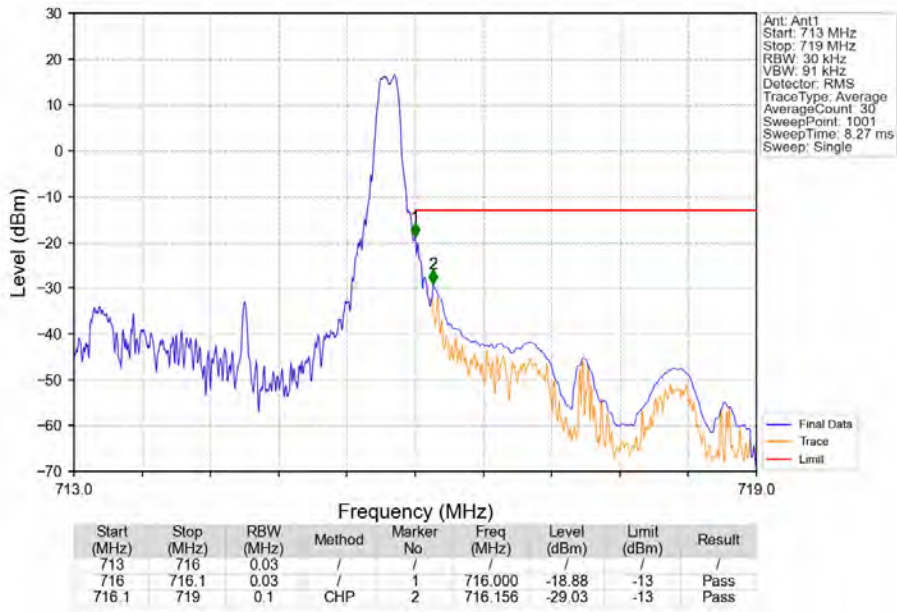
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



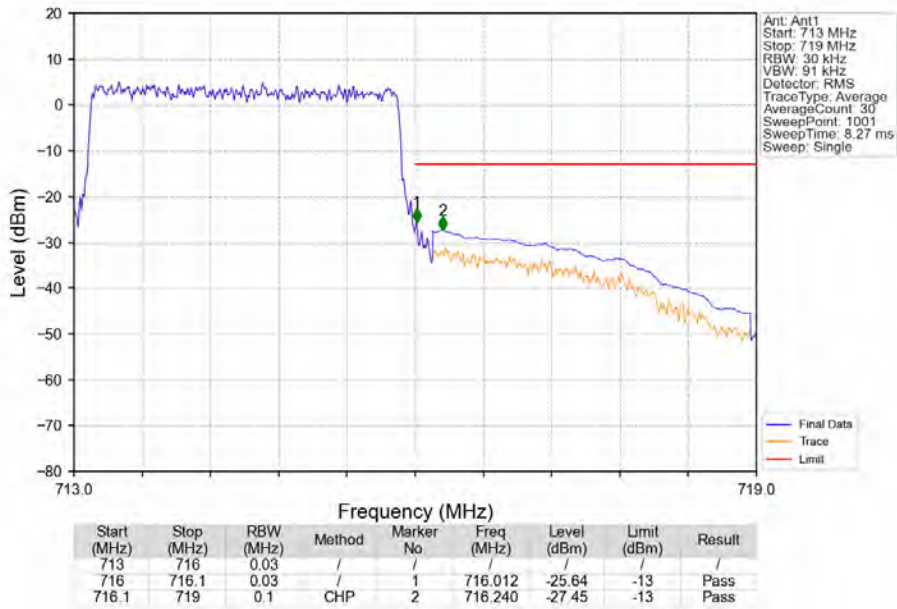
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



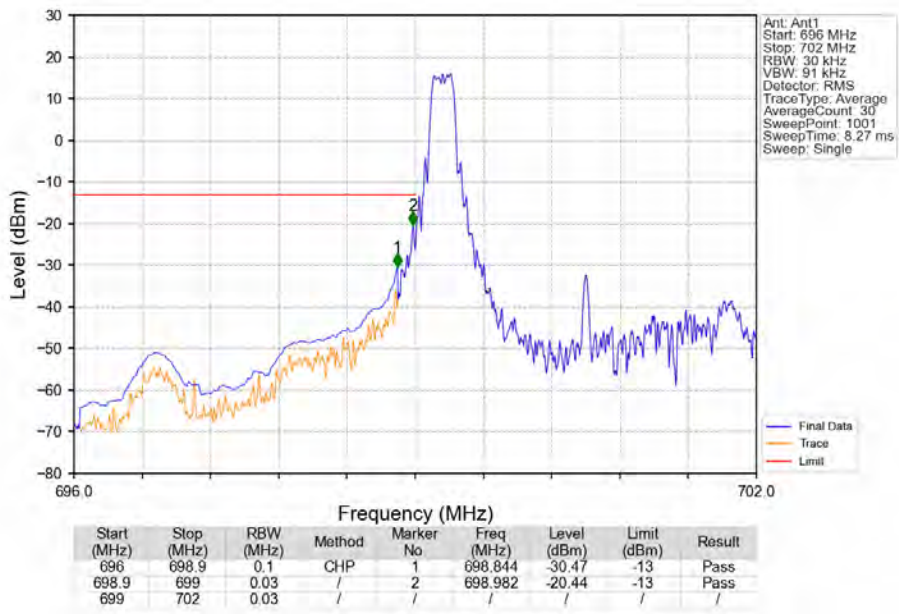
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



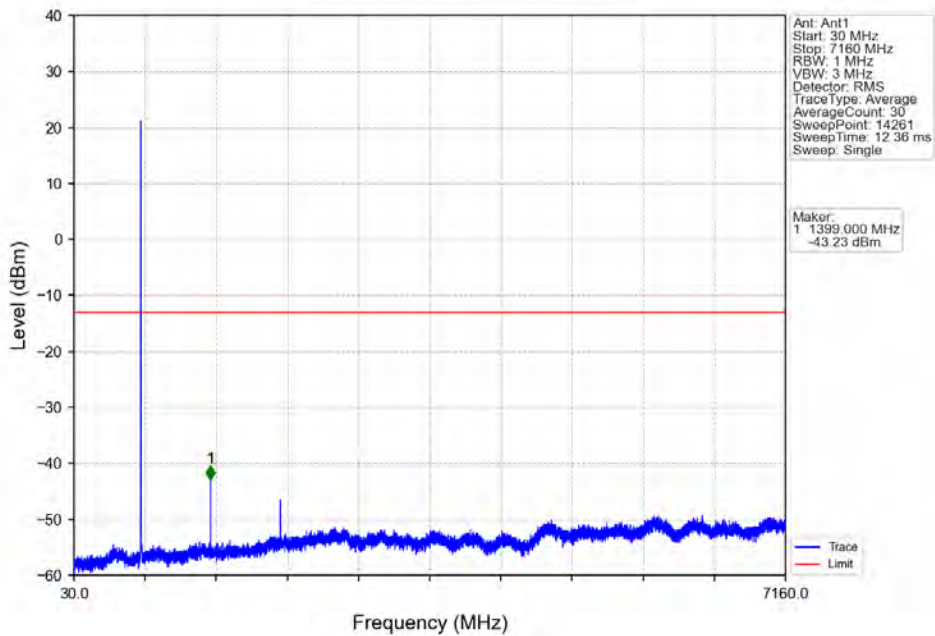
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV

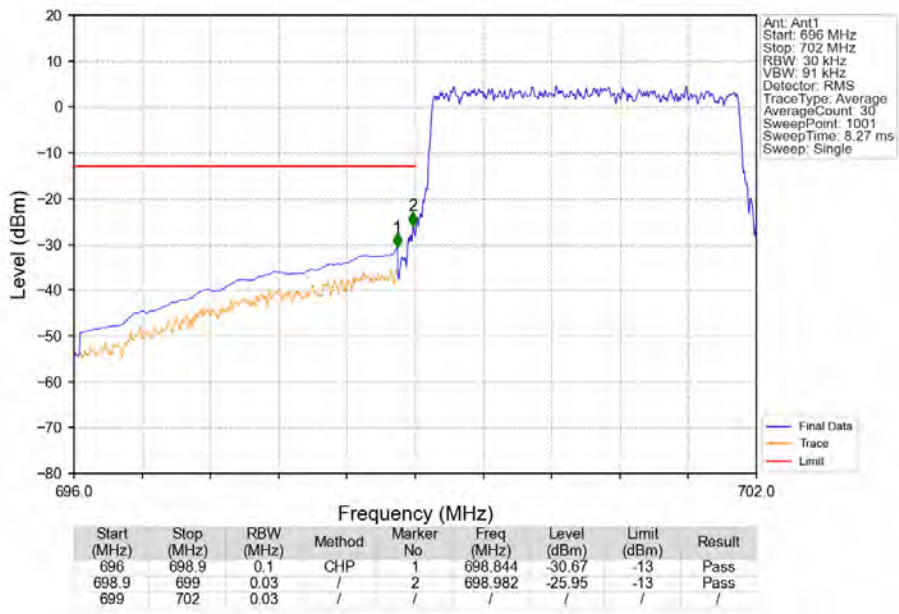


Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV

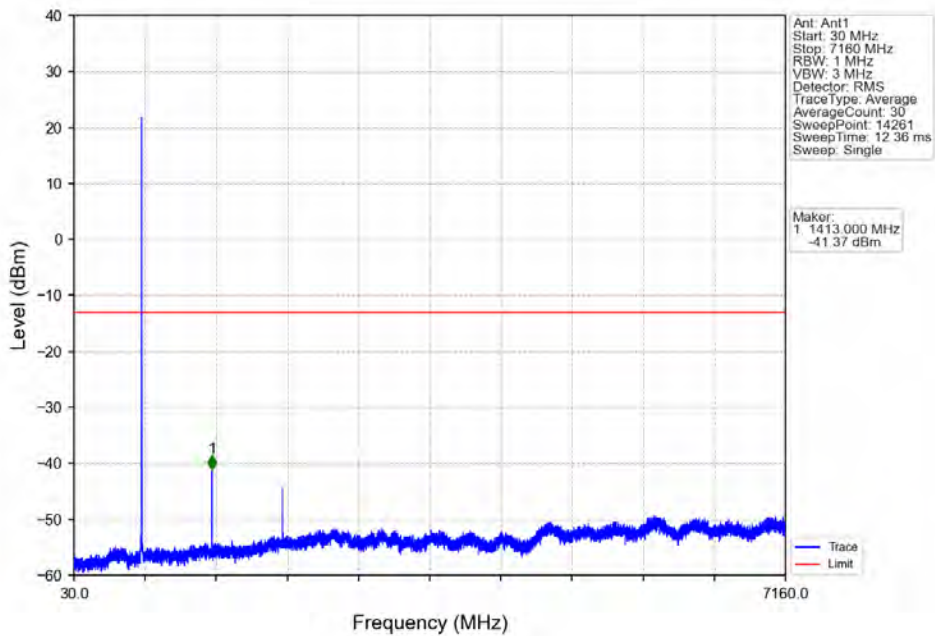




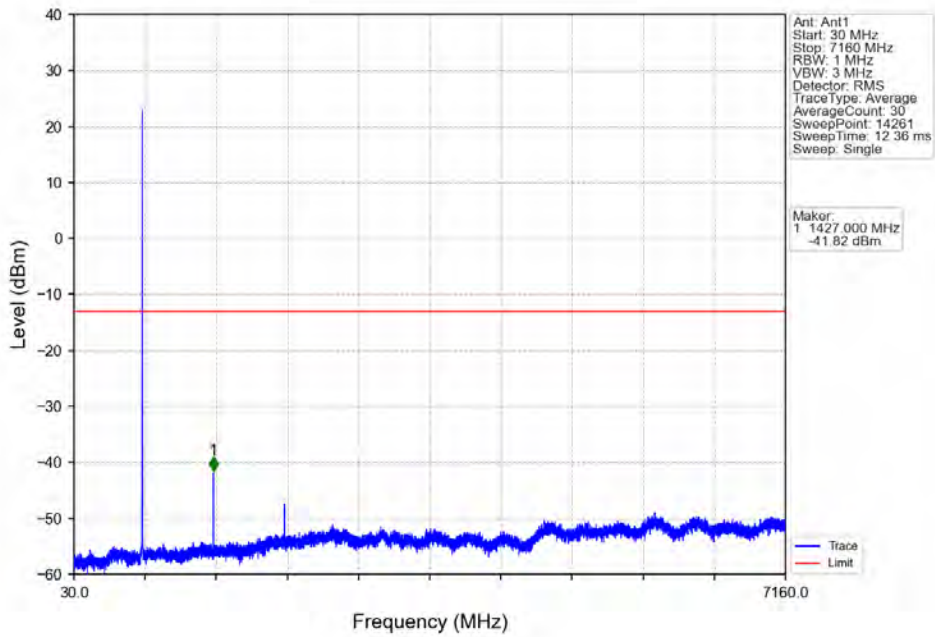
Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



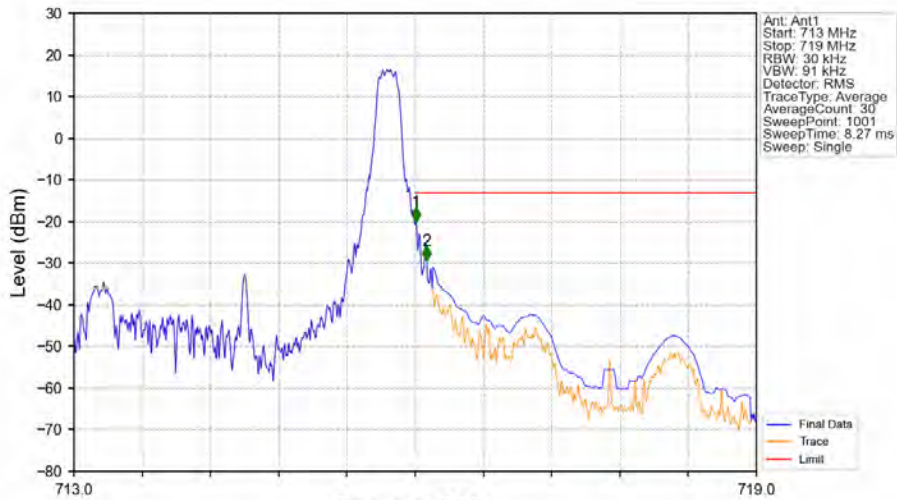
Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV

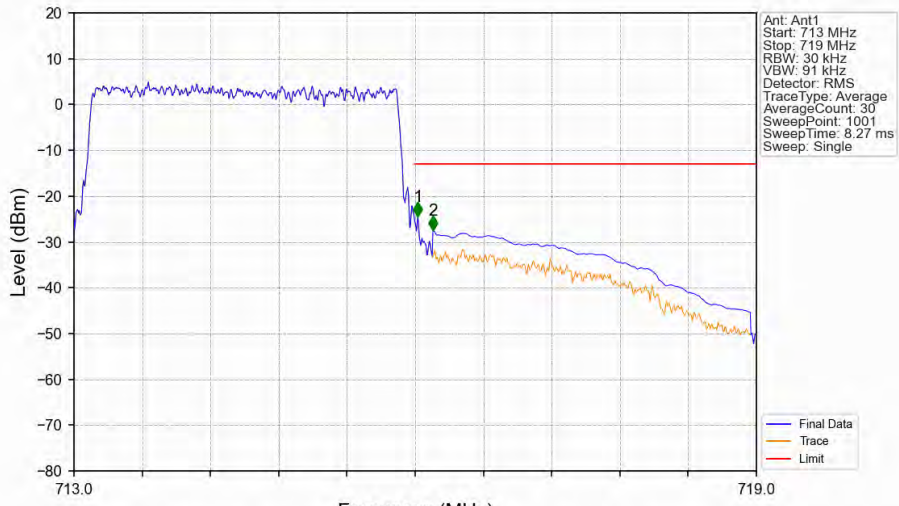


Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.006	-20.13	-13	Pass
716.1	719	0.1	CHP	2	716.102	-29.31	-13	Pass

Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



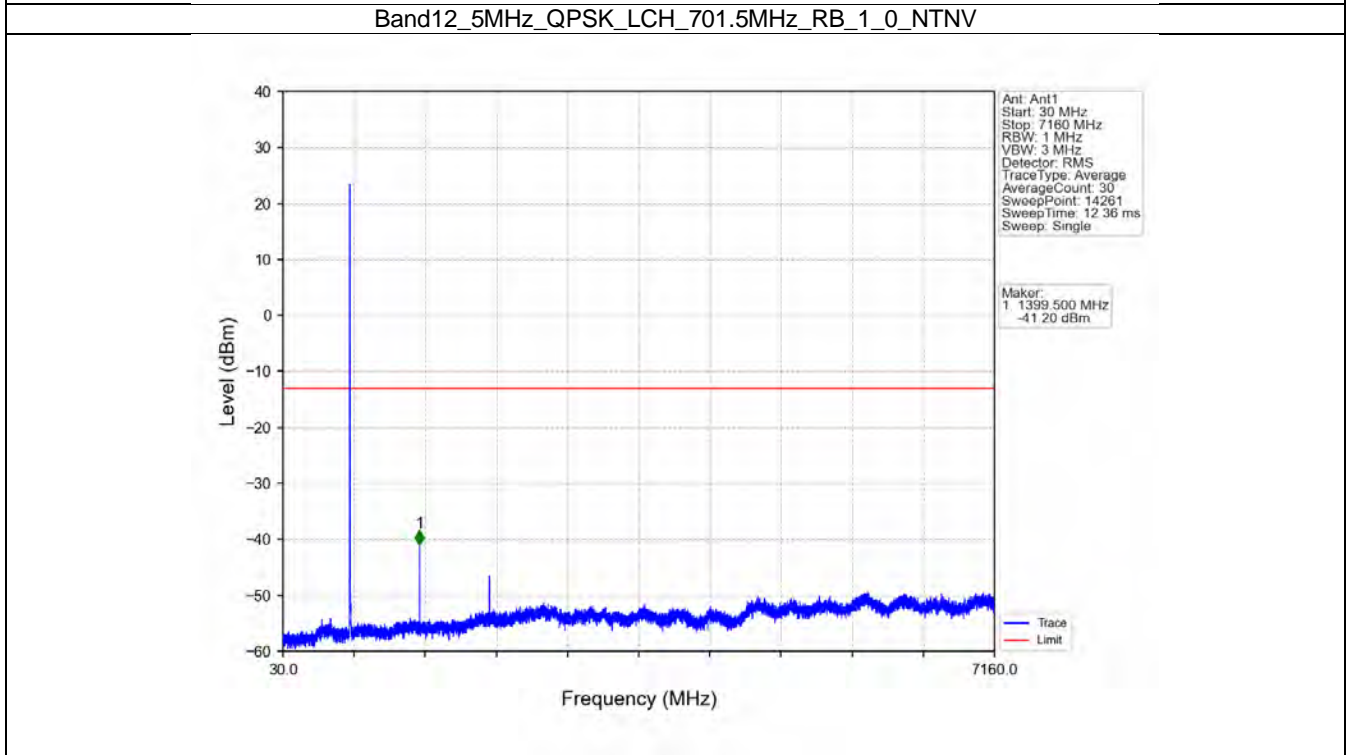
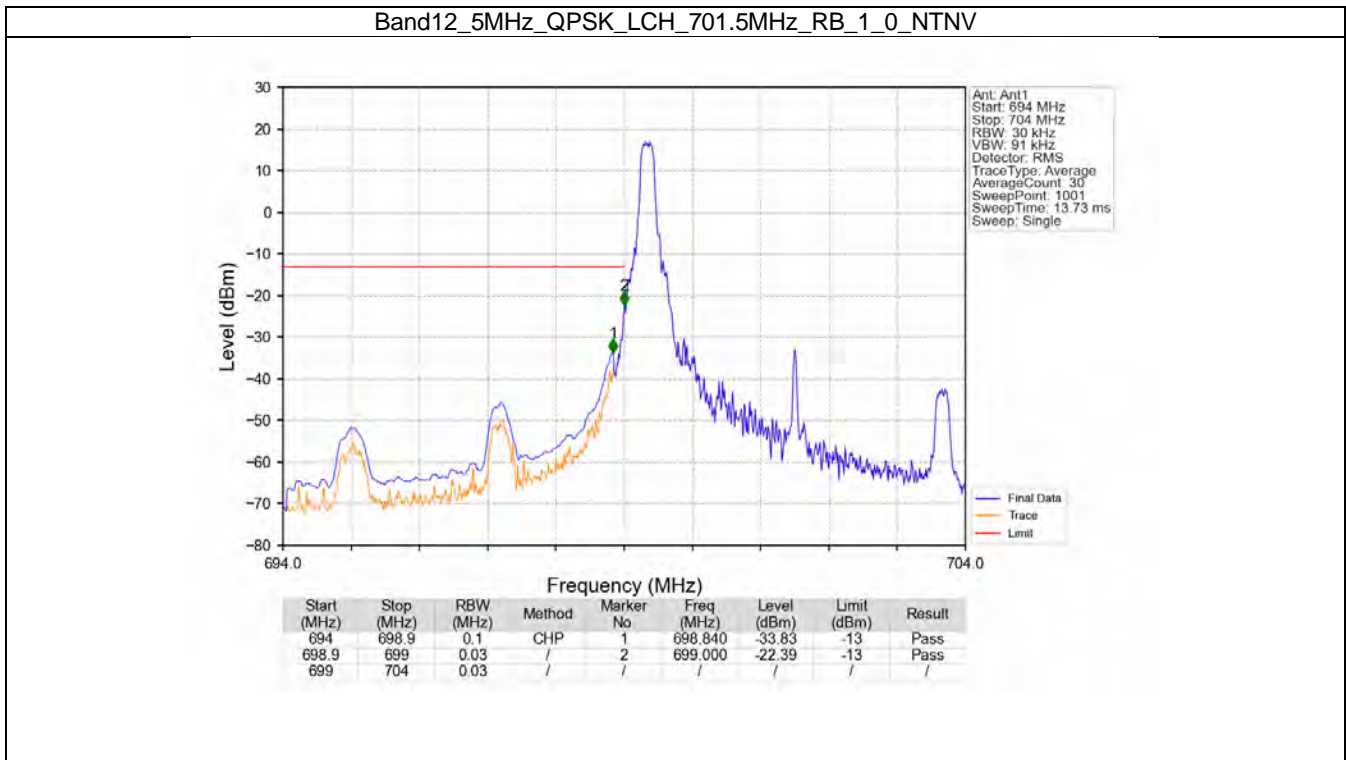
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-24.39	-13	Pass
716.1	719	0.1	CHP	2	716.156	-27.52	-13	Pass

5.3 B12\_5MHz

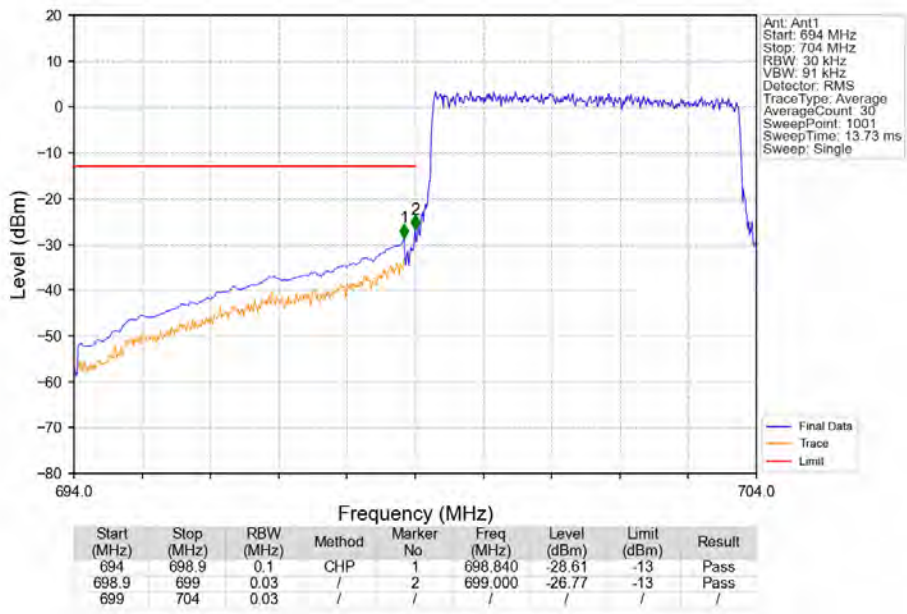
5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	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	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	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	
64QAM	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	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	

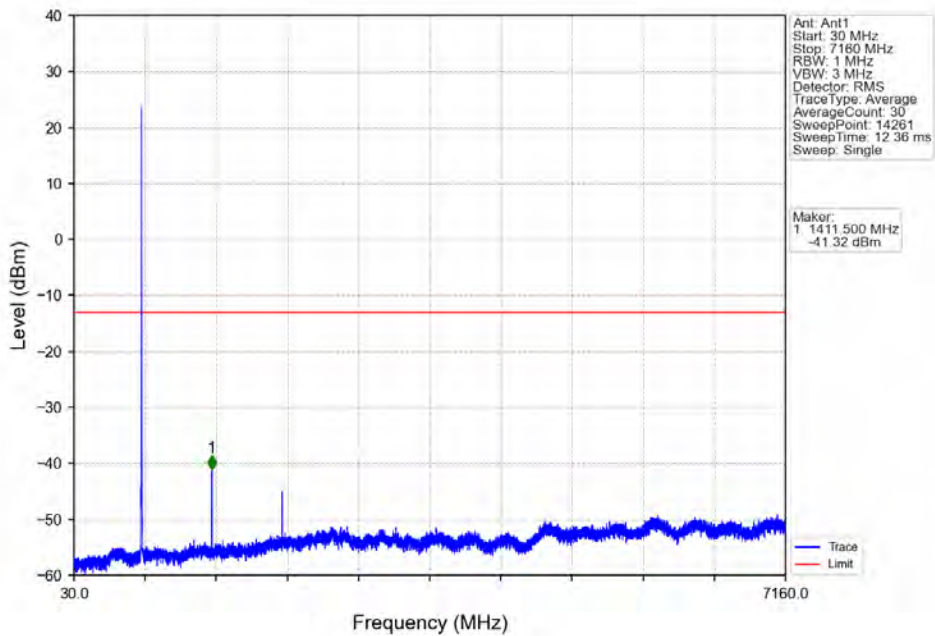
5.3.2 Test Graph



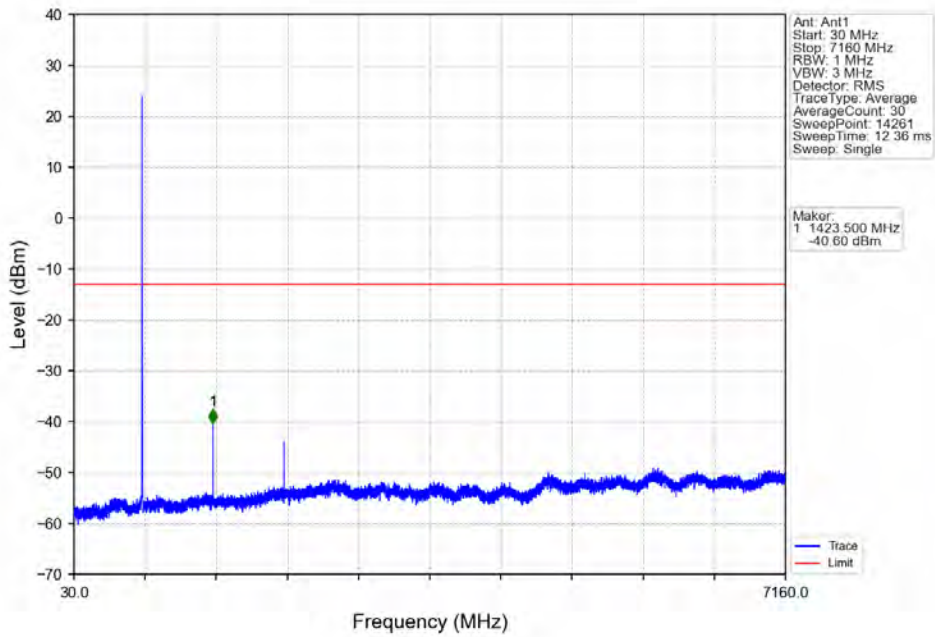
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



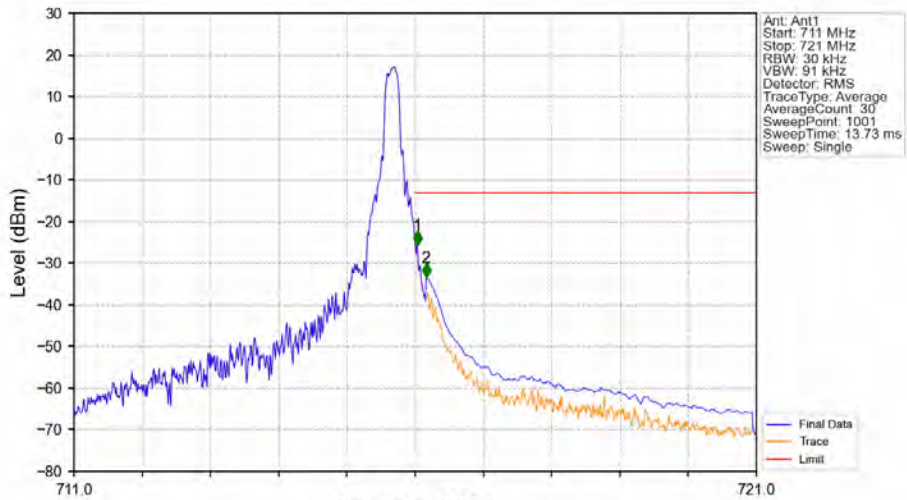
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

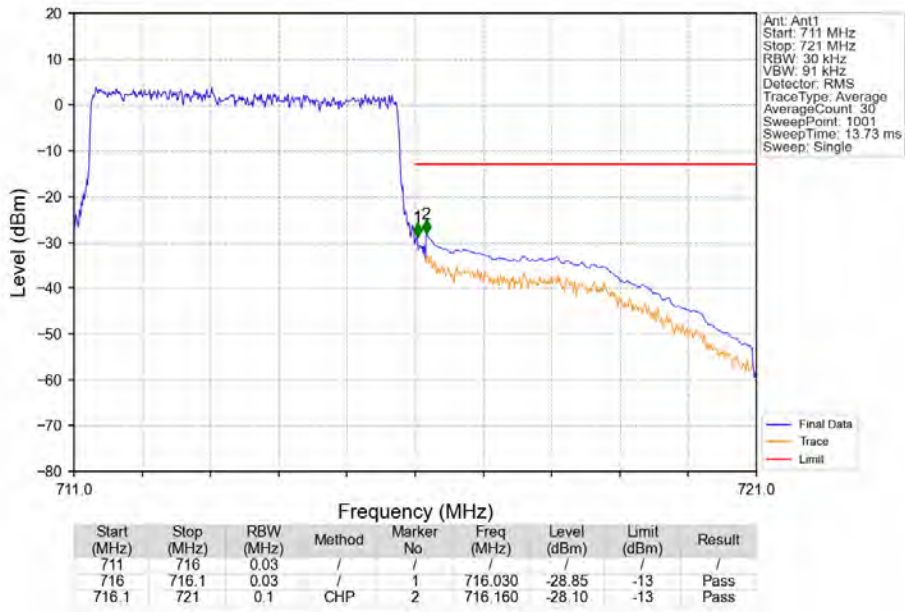


Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV

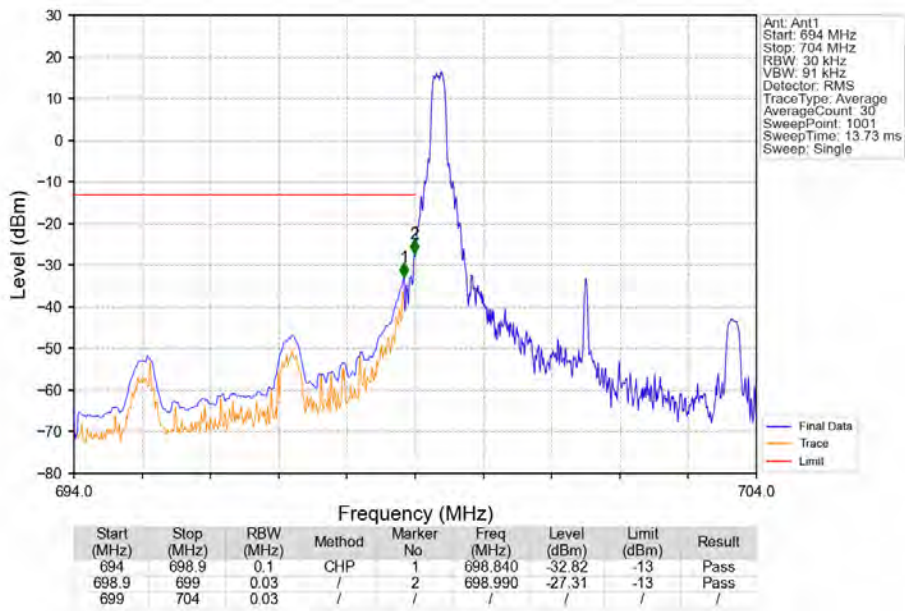


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-25.63	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.46	-13	Pass

Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

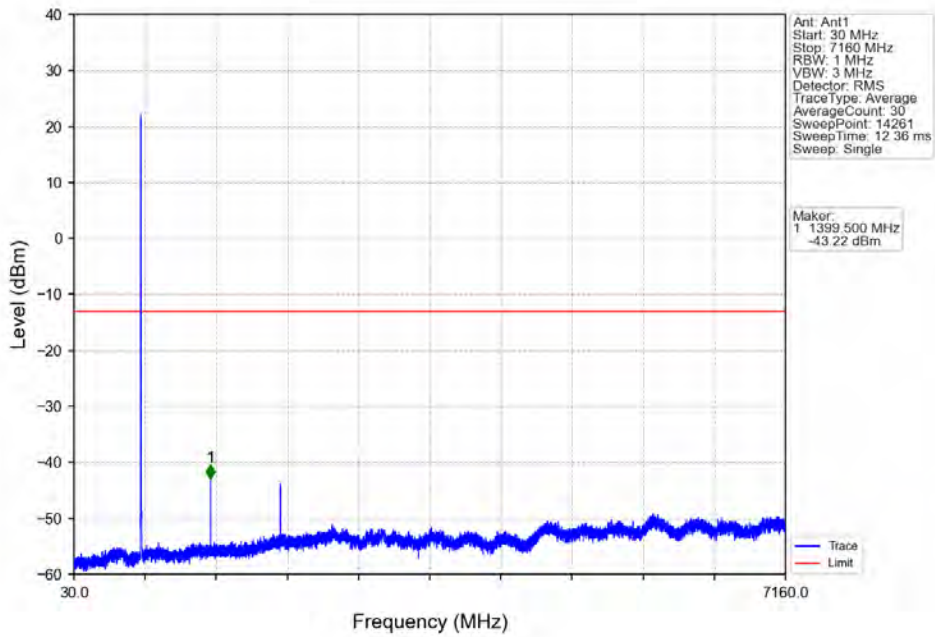


Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV

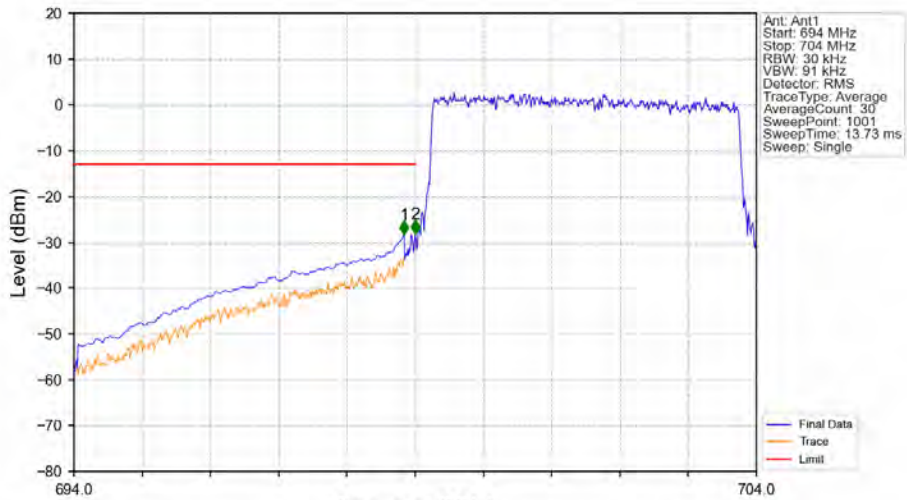




Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV

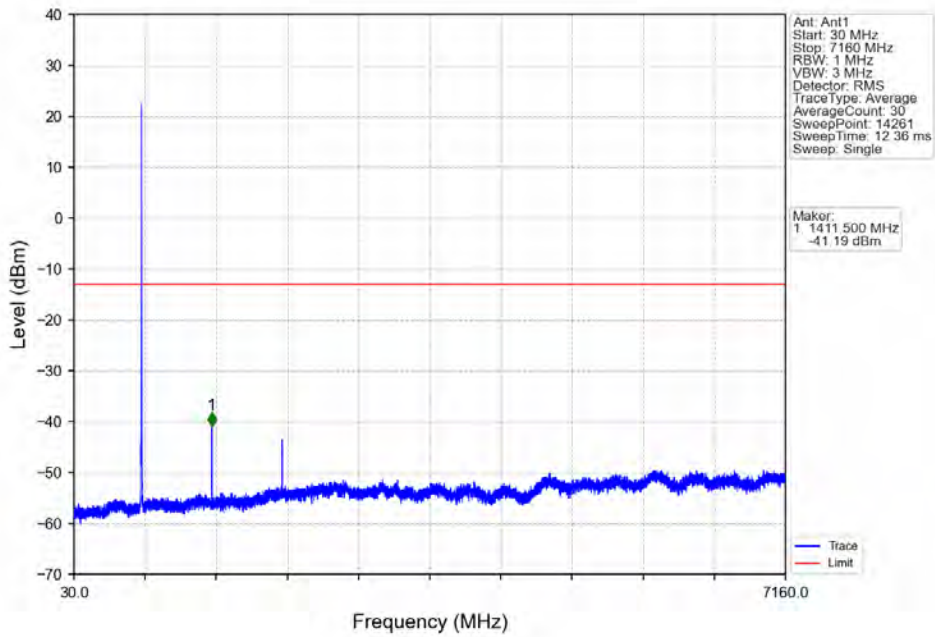


Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

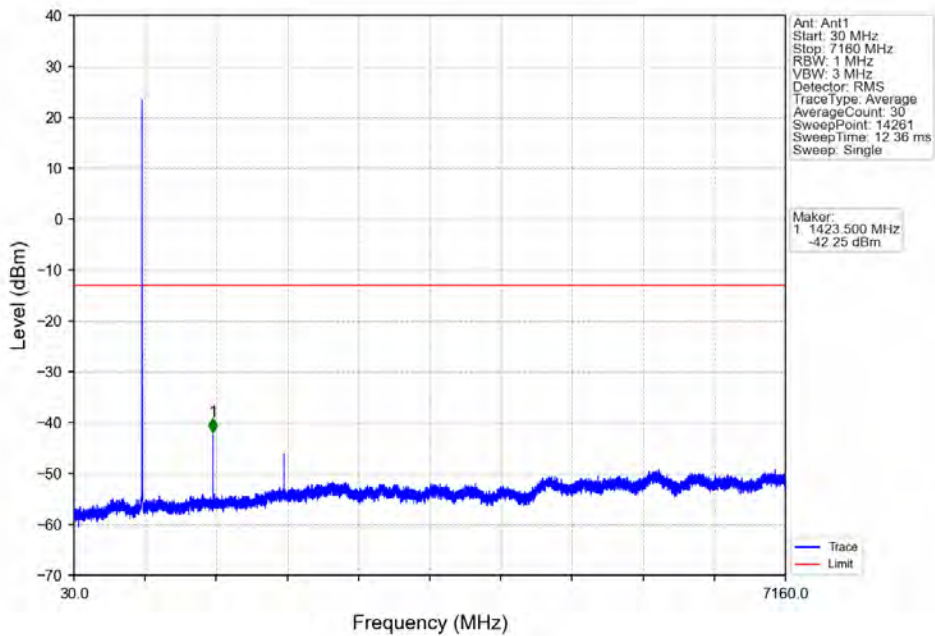


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-28.33	-13	Pass
698.9	699	0.03	/	2	699.000	-28.22	-13	Pass
699	704	0.03	/	/	/	/	/	/

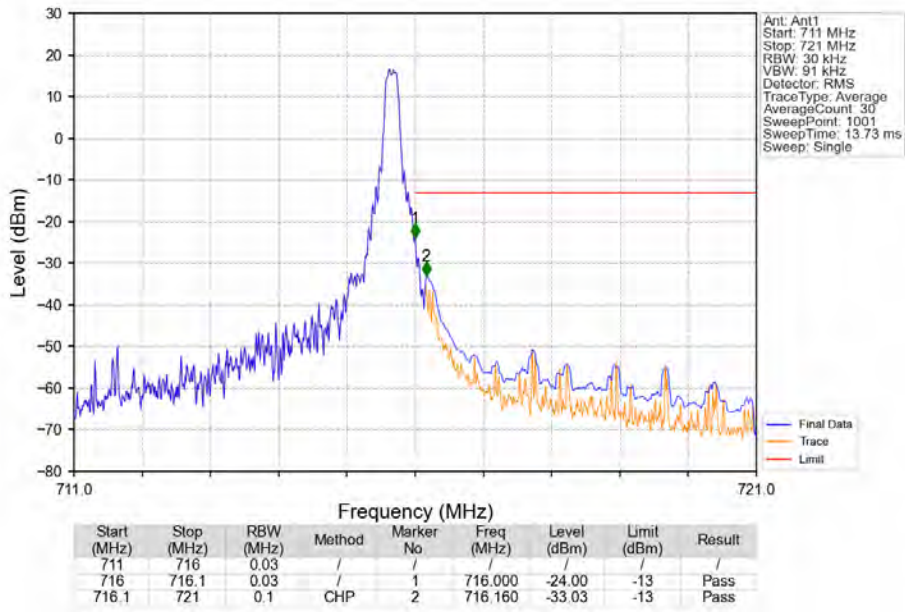
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



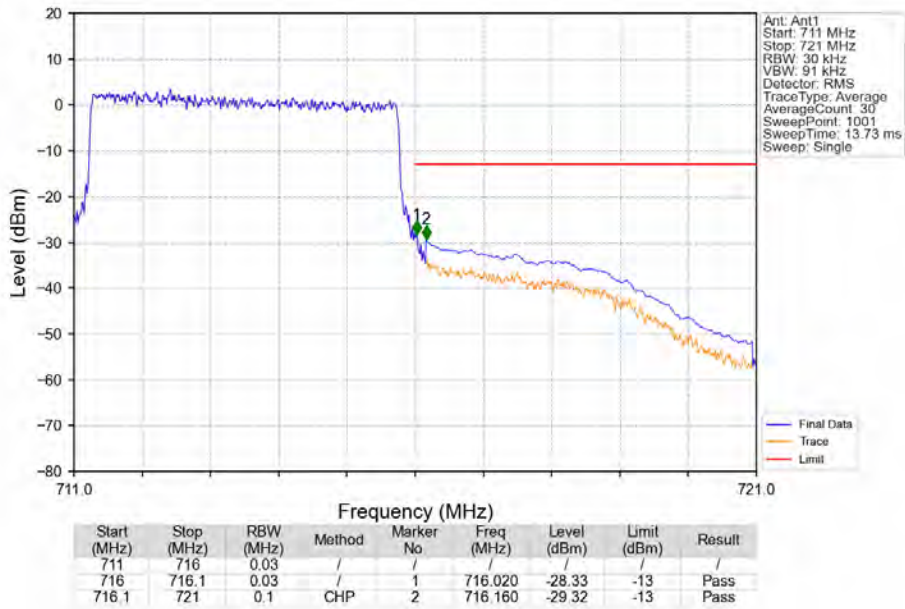
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



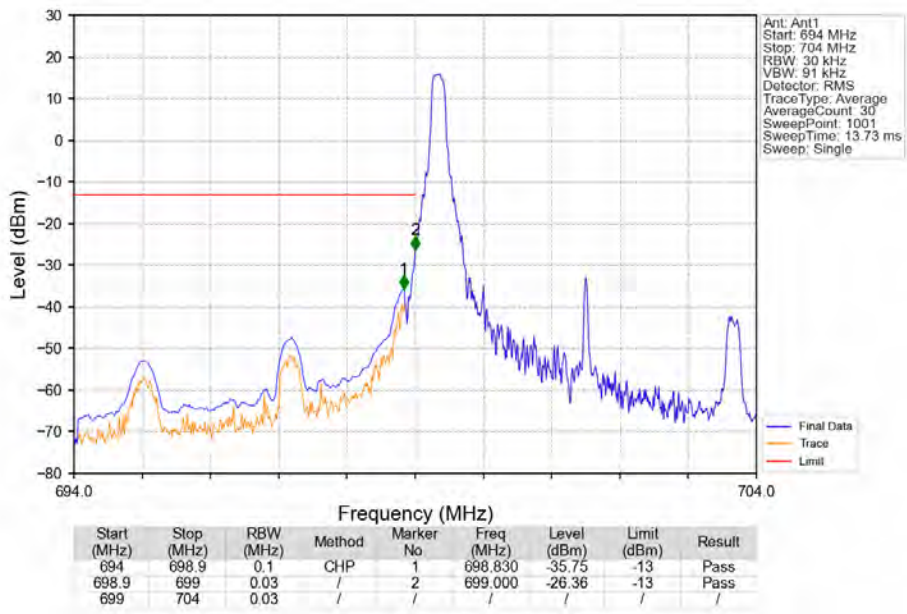
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



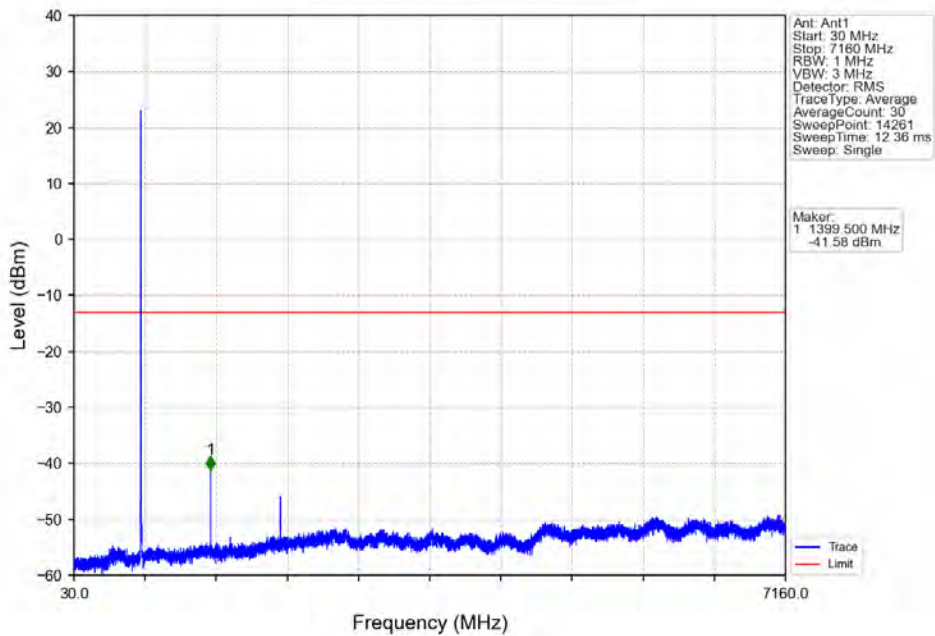
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



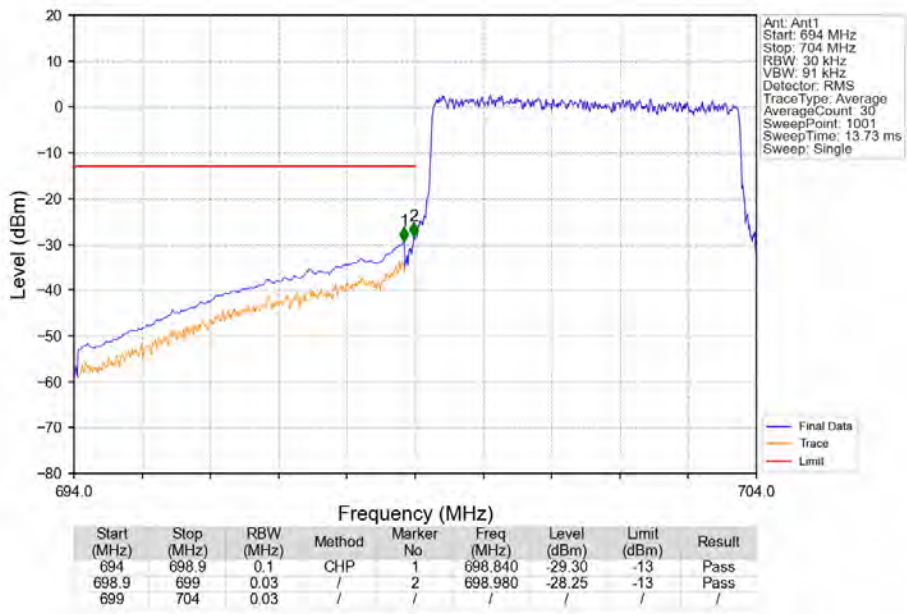
Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



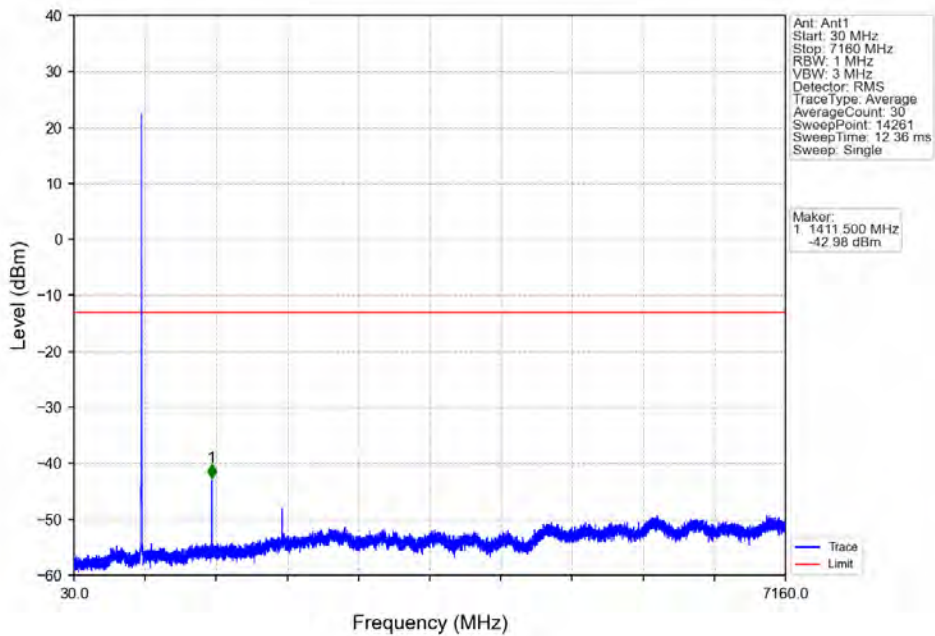
Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



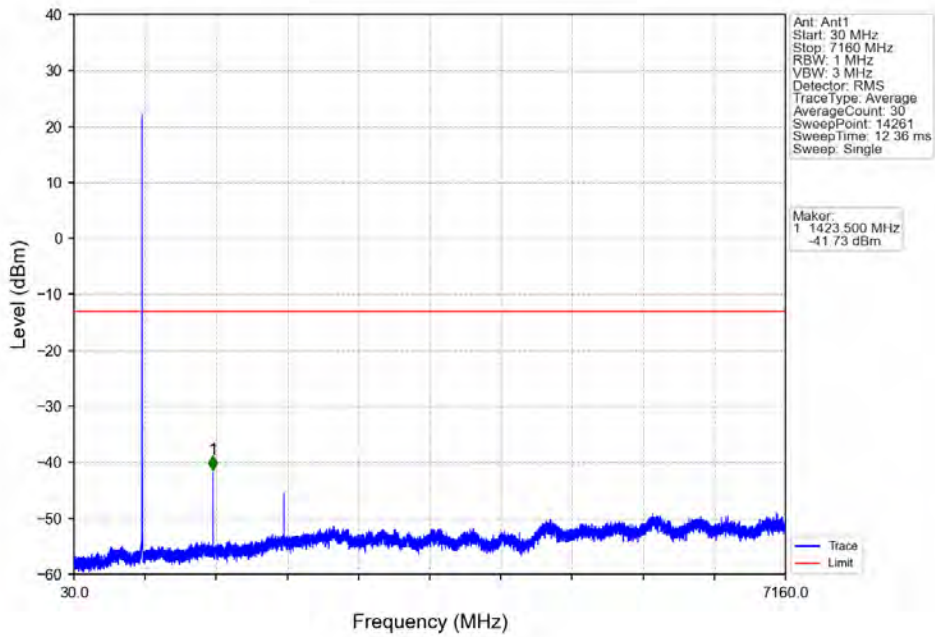
Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



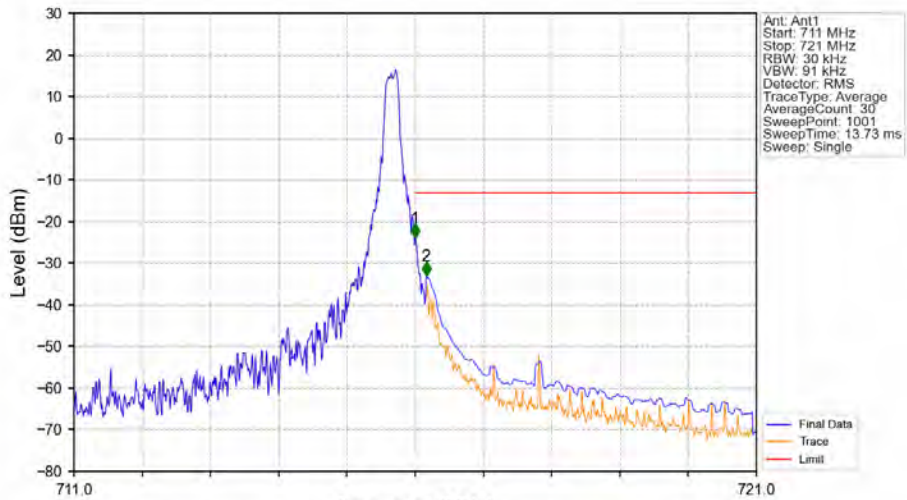
Band12\_5MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

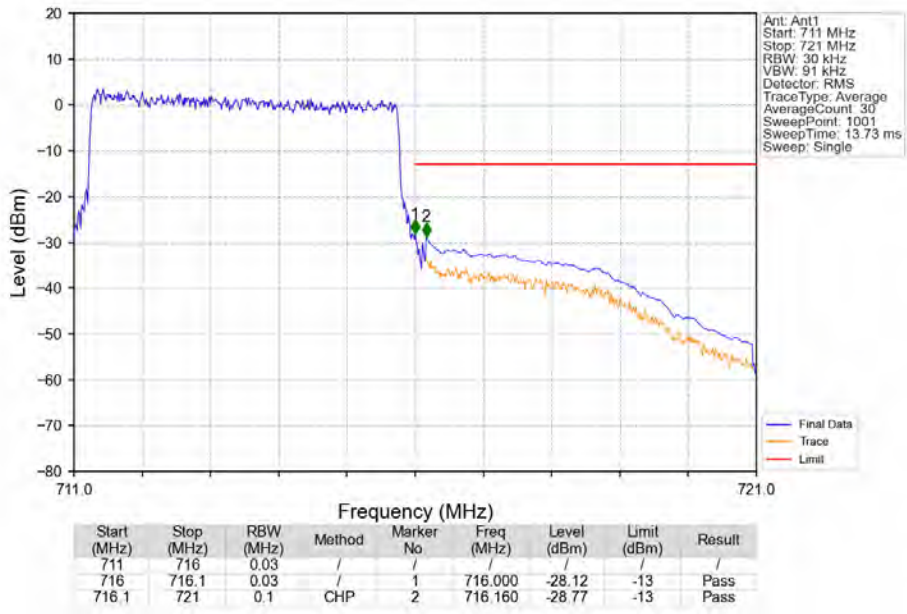


Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-23.98	-13	Pass
716	716.1	0.03	/	1	716.000	-23.98	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.14	-13	Pass

Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



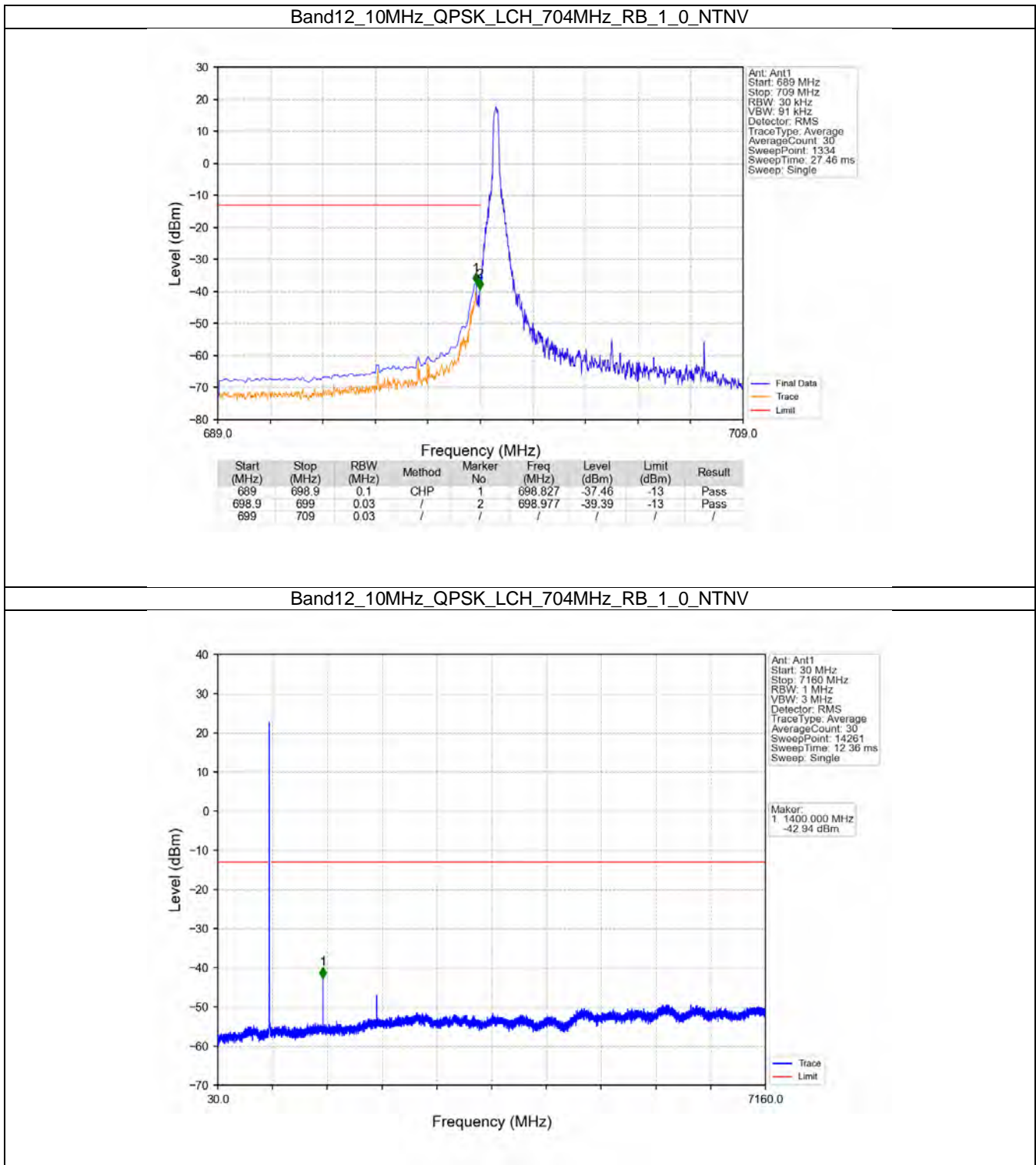
5.4 B12\_10MHz

5.4.1 Test Result

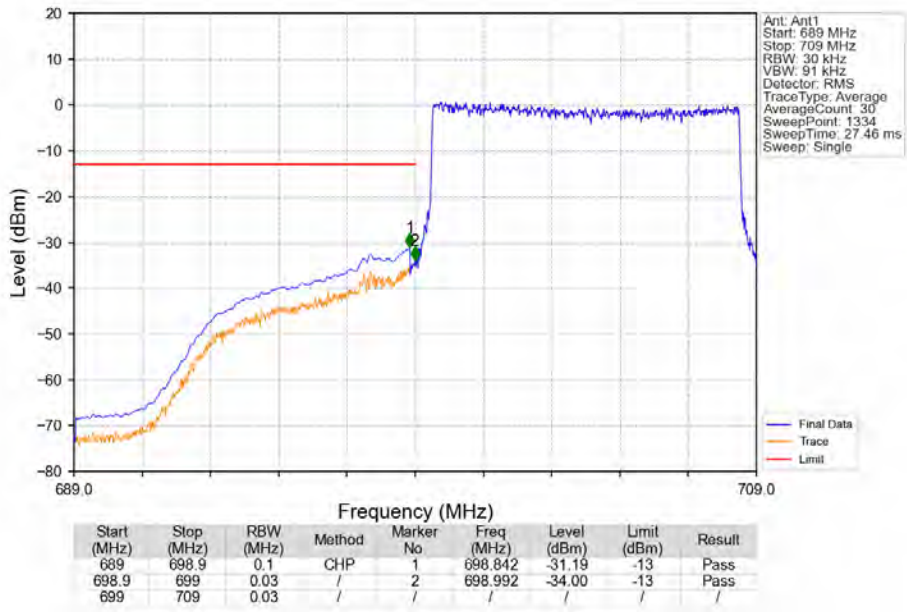
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		50	49	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		50	49	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
64QAM	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		50	49	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass



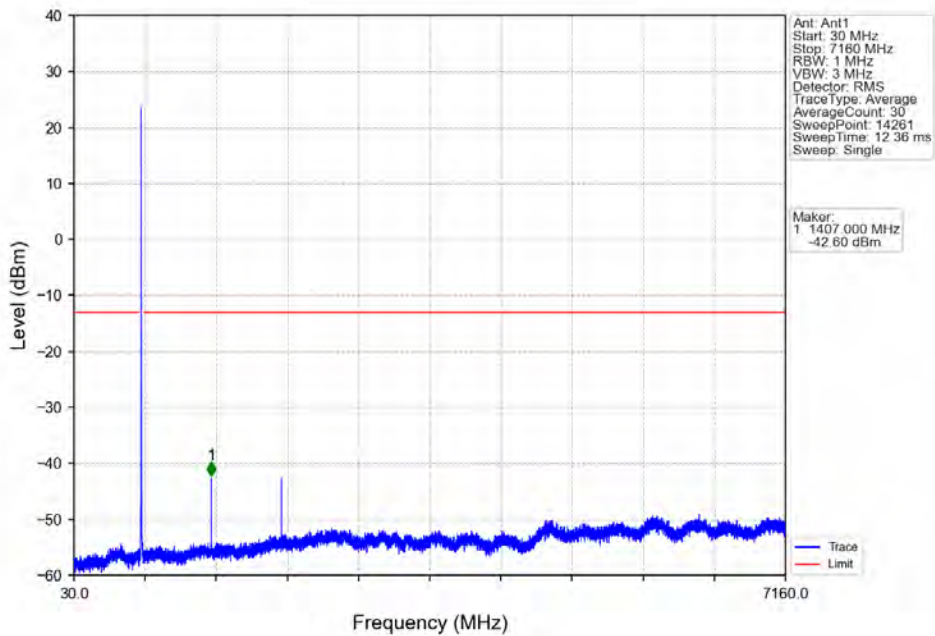
5.4.2 Test Graph



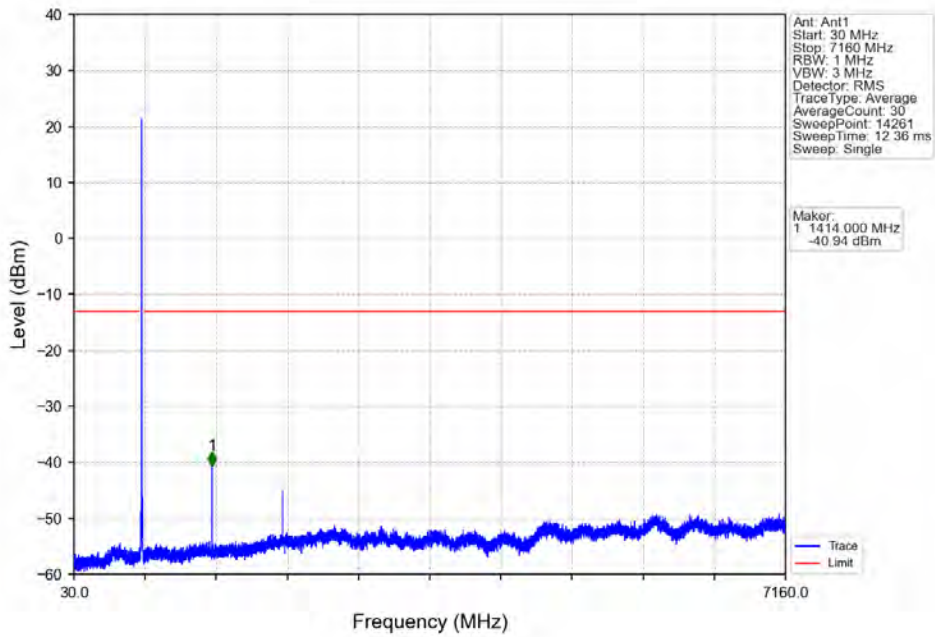
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



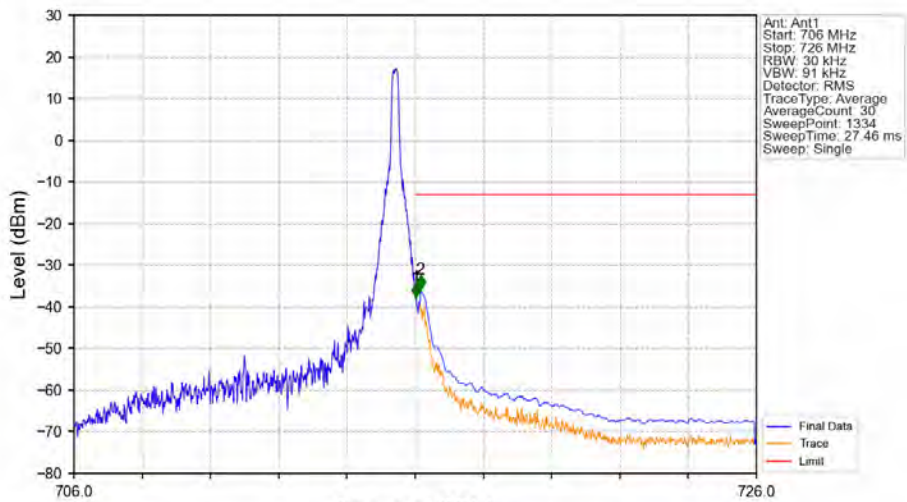
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV

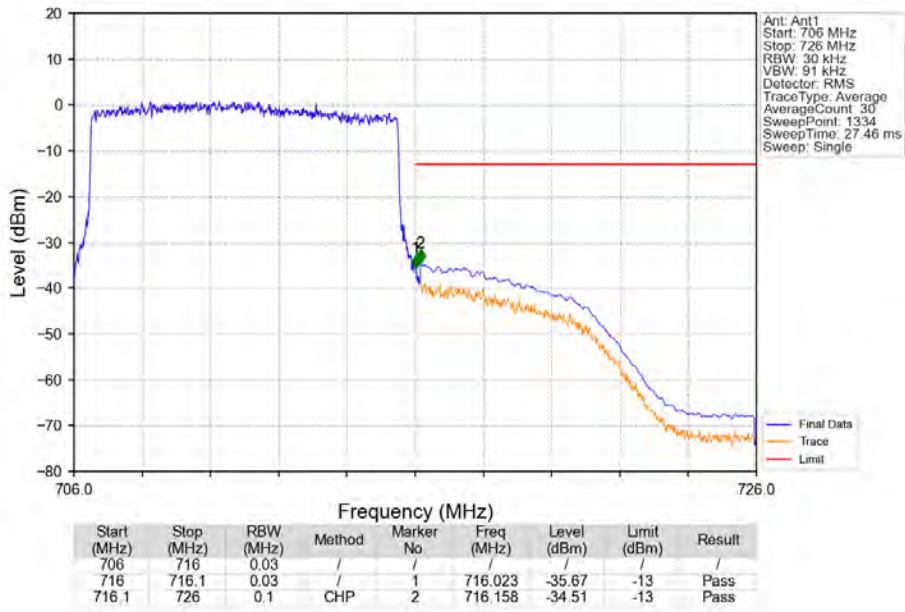


Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV

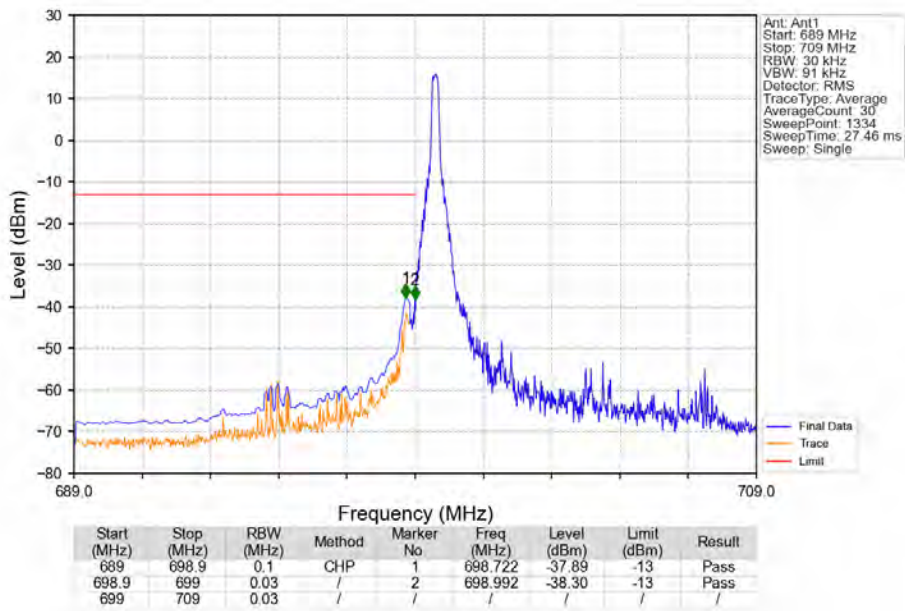


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.023	-37.72	-13	Pass
716.1	726	0.1	CHP	2	716.158	-35.80	-13	Pass

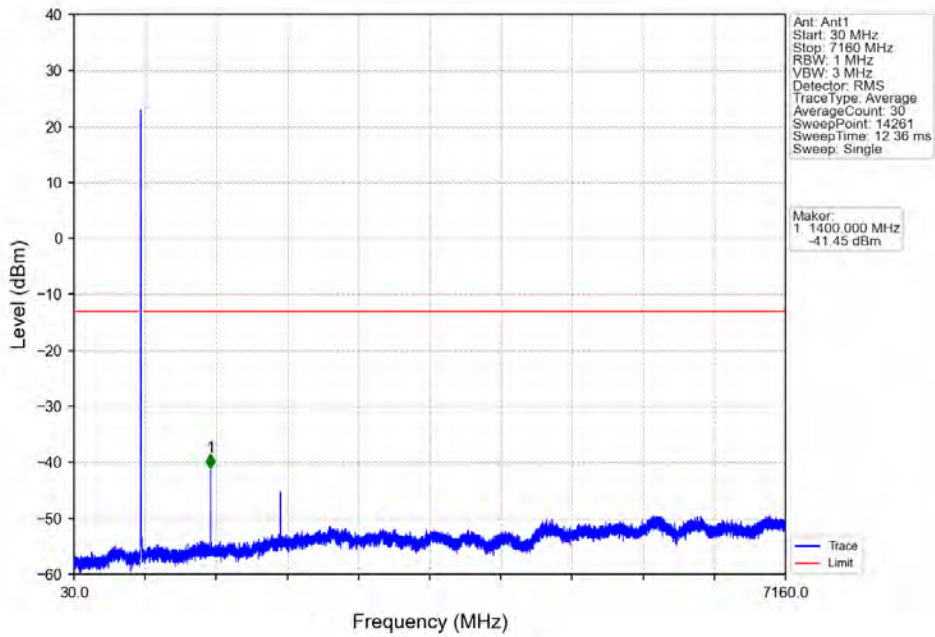
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



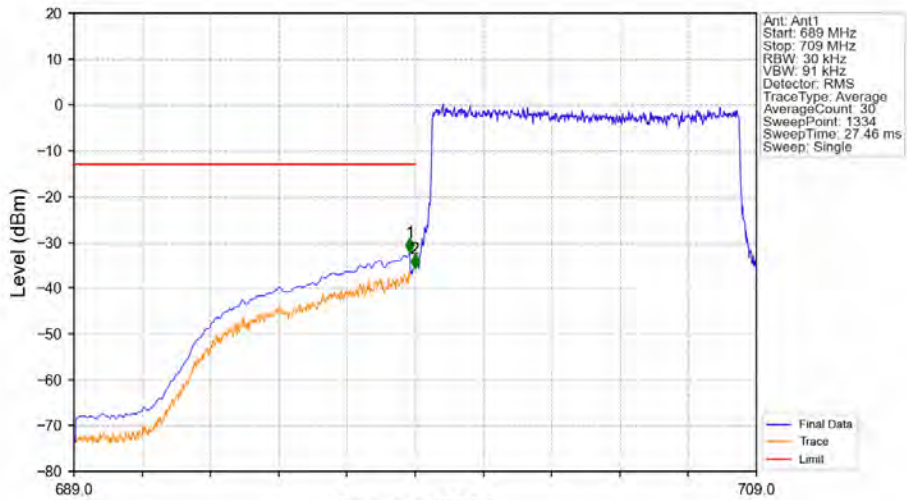
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV



Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV

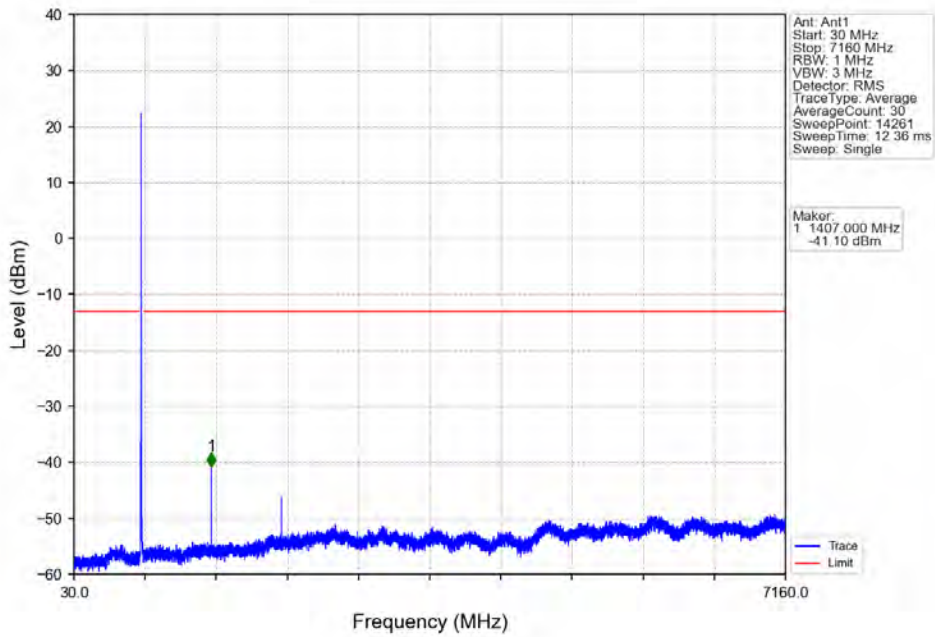


Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV

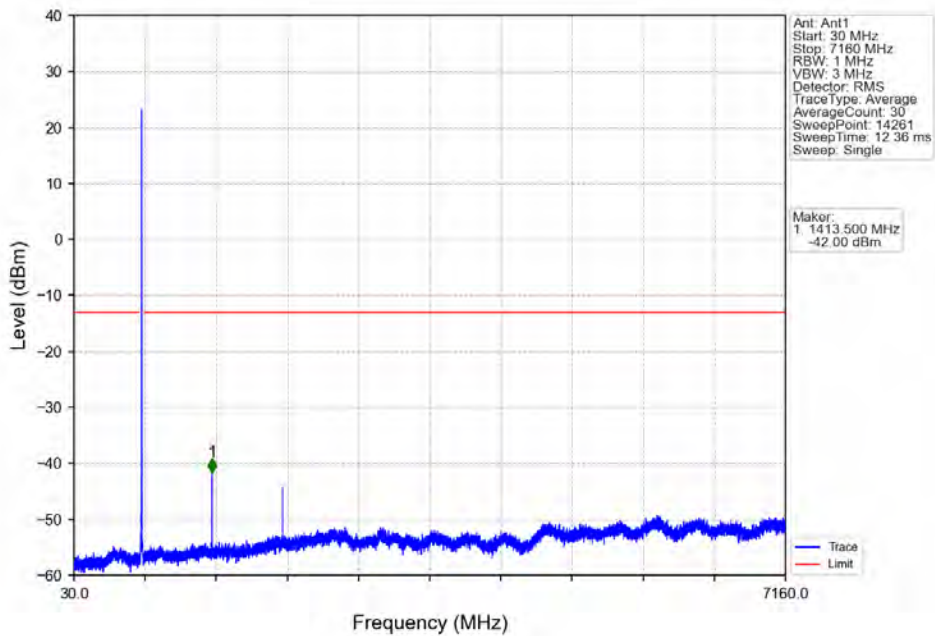


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-32.17	-13	Pass
698.9	699	0.03	/	2	698.992	-35.68	-13	Pass
699	709	0.03	/	/	/	/	/	/

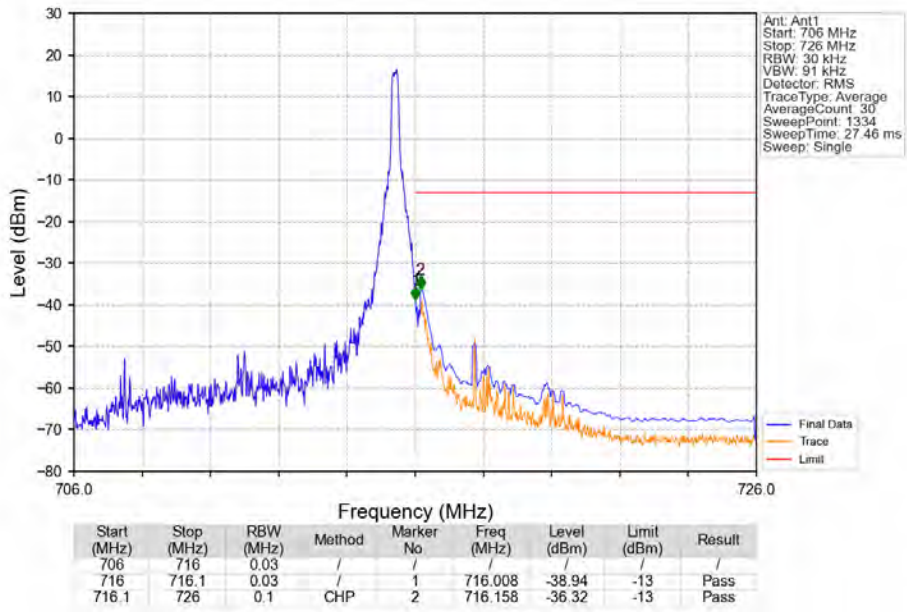
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



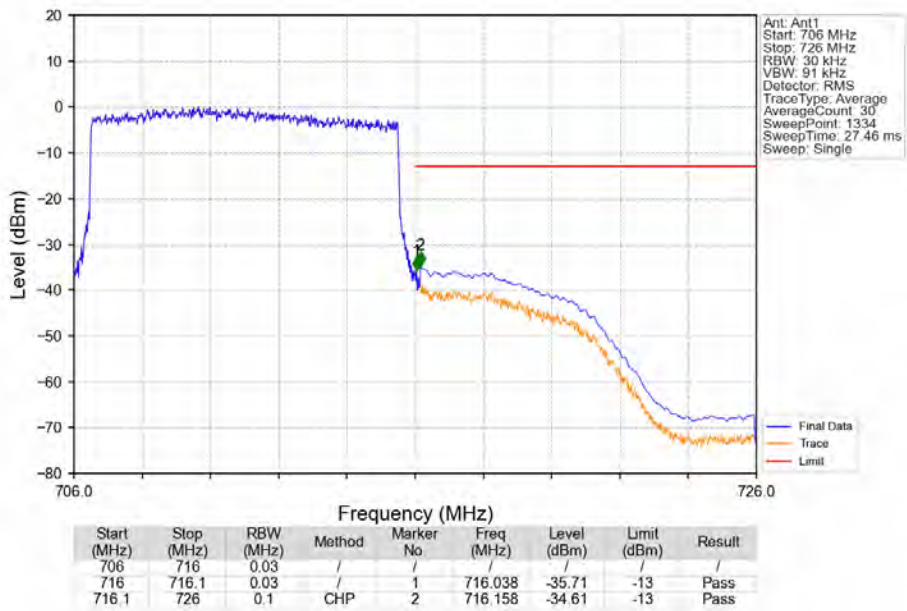
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV



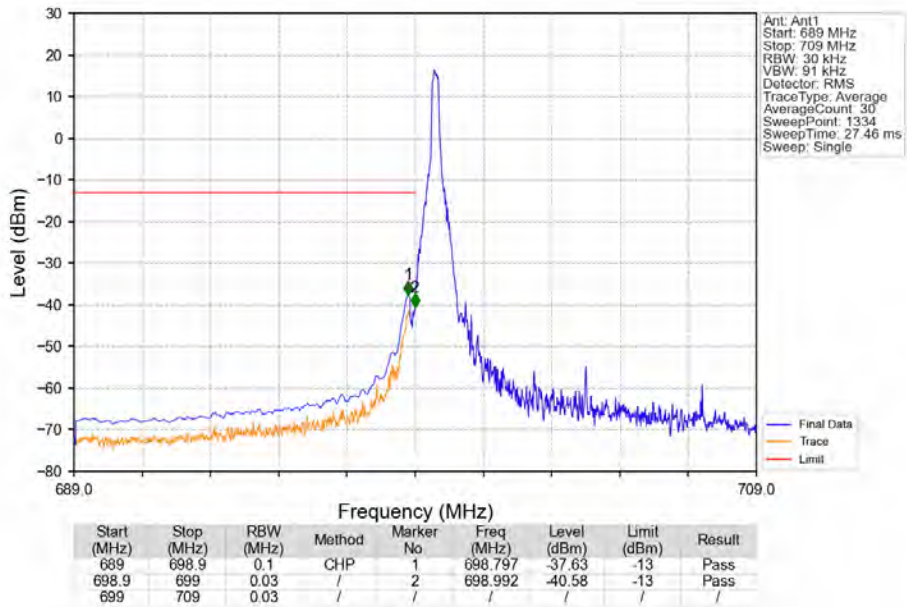
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_49\_NTNV



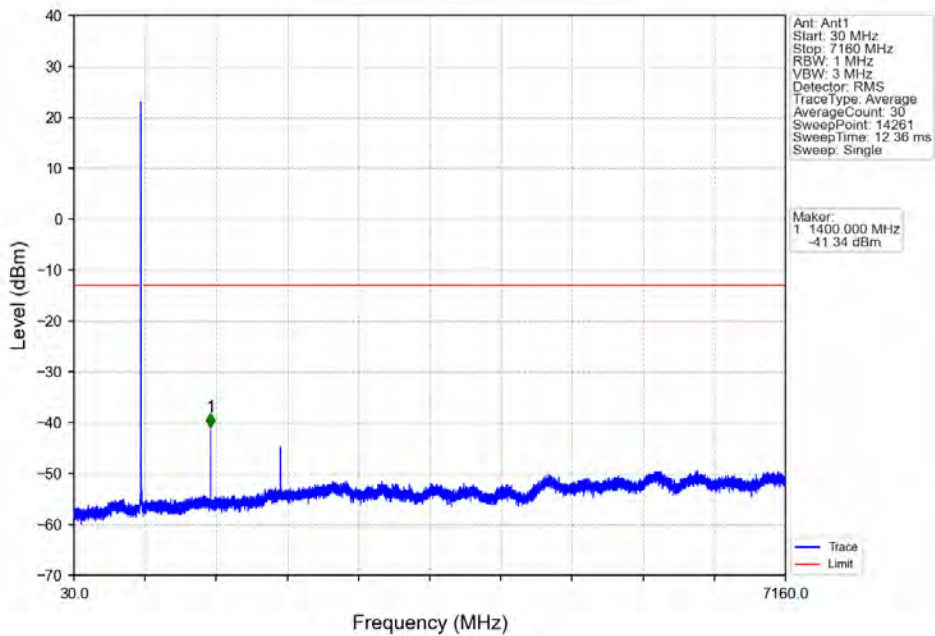
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV

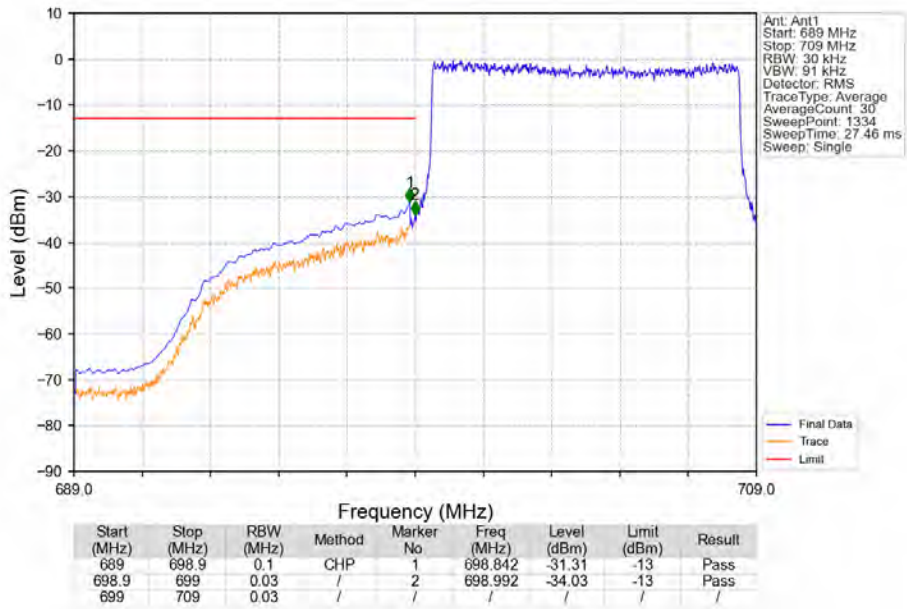


Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV

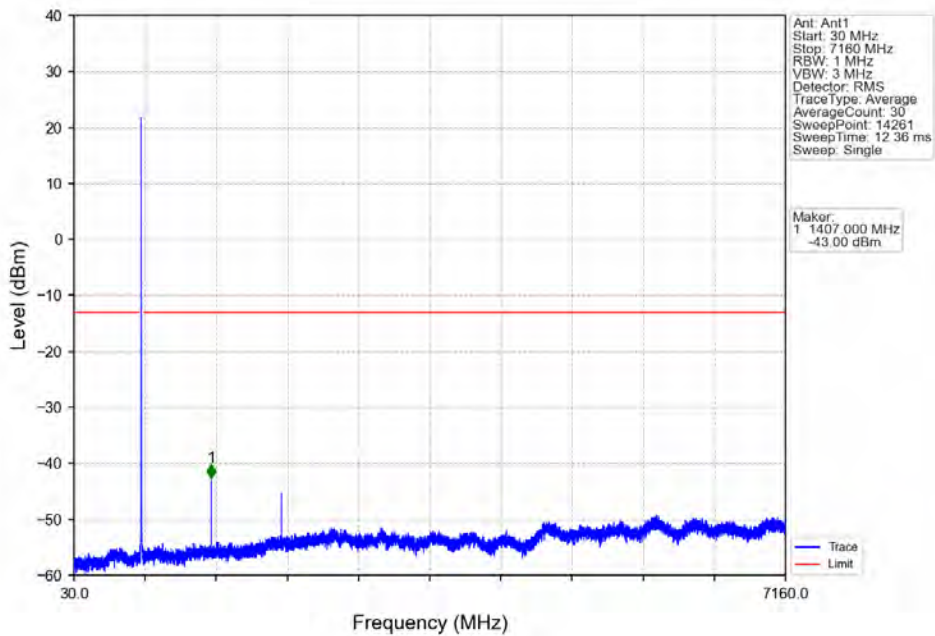




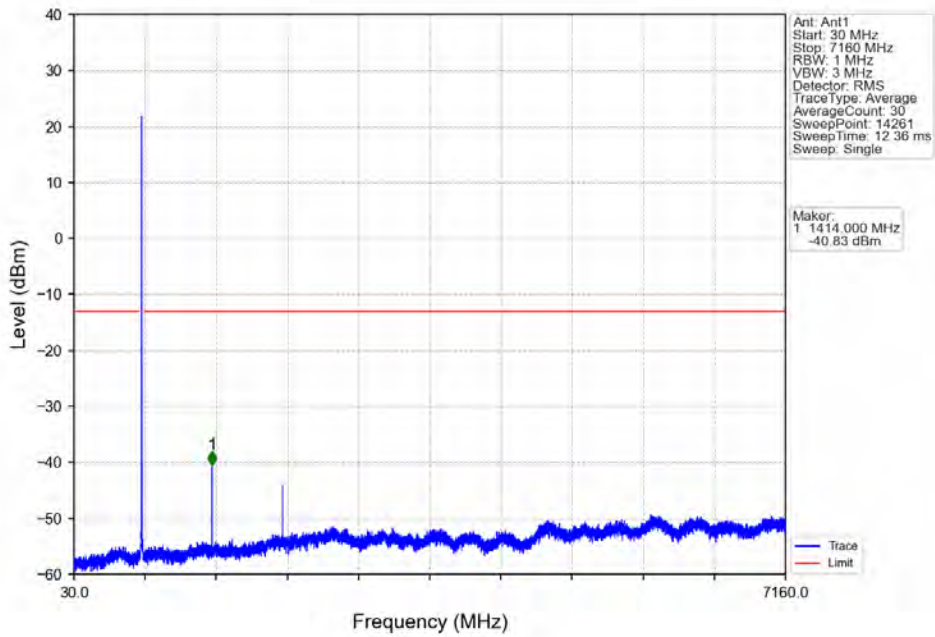
Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTV



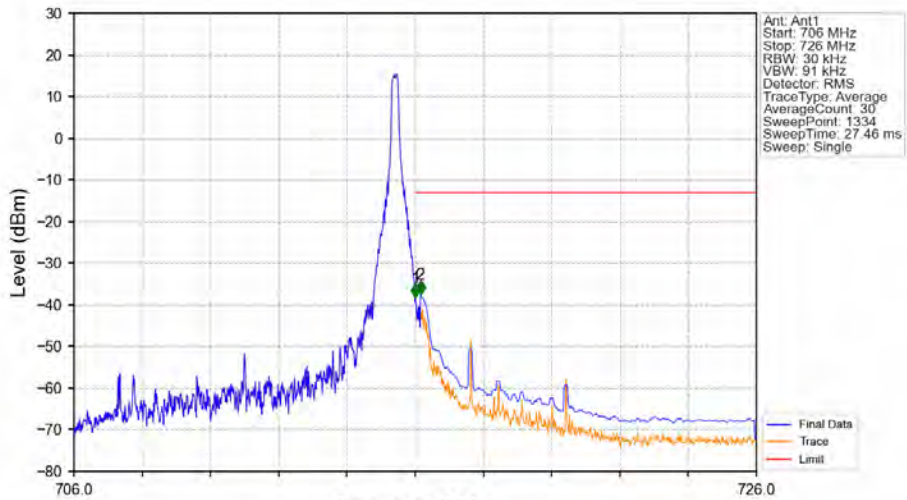
Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTV



Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV



Band12\_10MHz\_64QAM\_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	716.008	-38.27	-13	Pass
716	726	0.1	CHP	2	716.158	-37.53	-13	Pass

Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV

