

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP

Band: 17 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	21.83	-1.83	17.85	<=34.77	Pass		
			13	21.94	-1.83	17.96	<=34.77	Pass		
			24	21.85	-1.83	17.87	<=34.77	Pass		
		12	0	20.97	-1.83	16.99	<=34.77	Pass		
			6	20.96	-1.83	16.98	<=34.77	Pass		
			13	20.89	-1.83	16.91	<=34.77	Pass		
		25	0	20.90	-1.83	16.92	<=34.77	Pass		
		710	1	0	21.78	-1.83	17.80	<=34.77	Pass	
				13	21.90	-1.83	17.92	<=34.77	Pass	
	24			21.84	-1.83	17.86	<=34.77	Pass		
	12		0	20.82	-1.83	16.84	<=34.77	Pass		
			6	20.98	-1.83	17.00	<=34.77	Pass		
			13	20.92	-1.83	16.94	<=34.77	Pass		
	25		0	20.88	-1.83	16.90	<=34.77	Pass		
	713.5		1	0	21.76	-1.83	17.78	<=34.77	Pass	
				13	21.94	-1.83	17.96	<=34.77	Pass	
		24		21.81	-1.83	17.83	<=34.77	Pass		
		12	0	20.90	-1.83	16.92	<=34.77	Pass		
			6	20.98	-1.83	17.00	<=34.77	Pass		
			13	20.85	-1.83	16.87	<=34.77	Pass		
		25	0	20.88	-1.83	16.90	<=34.77	Pass		
		16QAM	706.5	1	0	20.66	-1.83	16.68	<=34.77	Pass
					13	20.77	-1.83	16.79	<=34.77	Pass
	24				20.70	-1.83	16.72	<=34.77	Pass	
12	0			19.83	-1.83	15.85	<=34.77	Pass		
	6			19.89	-1.83	15.91	<=34.77	Pass		
	13			19.83	-1.83	15.85	<=34.77	Pass		
25	0			19.91	-1.83	15.93	<=34.77	Pass		
710	1			0	20.91	-1.83	16.93	<=34.77	Pass	
				13	21.03	-1.83	17.05	<=34.77	Pass	
			24	20.94	-1.83	16.96	<=34.77	Pass		
	12		0	19.75	-1.83	15.77	<=34.77	Pass		
			6	19.93	-1.83	15.95	<=34.77	Pass		
			13	19.87	-1.83	15.89	<=34.77	Pass		
	25		0	19.88	-1.83	15.90	<=34.77	Pass		
	713.5		1	0	21.07	-1.83	17.09	<=34.77	Pass	
				13	21.21	-1.83	17.23	<=34.77	Pass	
24				21.08	-1.83	17.10	<=34.77	Pass		
12			0	19.92	-1.83	15.94	<=34.77	Pass		
			6	20.00	-1.83	16.02	<=34.77	Pass		
			13	19.86	-1.83	15.88	<=34.77	Pass		
25			0	19.87	-1.83	15.89	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTNV								
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	709	1	0	21.82	-1.83	17.84	<=34.77	Pass		
			25	22.13	-1.83	18.15	<=34.77	Pass		
			49	21.91	-1.83	17.93	<=34.77	Pass		
		25	0	20.98	-1.83	17.00	<=34.77	Pass		
			13	21.01	-1.83	17.03	<=34.77	Pass		
			25	20.98	-1.83	17.00	<=34.77	Pass		
		50	0	20.95	-1.83	16.97	<=34.77	Pass		
		710	1	0	21.80	-1.83	17.82	<=34.77	Pass	
				25	22.02	-1.83	18.04	<=34.77	Pass	
	49			21.87	-1.83	17.89	<=34.77	Pass		
	25		0	20.92	-1.83	16.94	<=34.77	Pass		
			13	20.97	-1.83	16.99	<=34.77	Pass		
			25	20.96	-1.83	16.98	<=34.77	Pass		
	50		0	20.93	-1.83	16.95	<=34.77	Pass		
	711		1	0	21.77	-1.83	17.79	<=34.77	Pass	
				25	22.06	-1.83	18.08	<=34.77	Pass	
		49		21.89	-1.83	17.91	<=34.77	Pass		
		25	0	20.92	-1.83	16.94	<=34.77	Pass		
			13	20.99	-1.83	17.01	<=34.77	Pass		
			25	20.93	-1.83	16.95	<=34.77	Pass		
		50	0	20.88	-1.83	16.90	<=34.77	Pass		
		16QAM	709	1	0	20.81	-1.83	16.83	<=34.77	Pass
					25	21.04	-1.83	17.06	<=34.77	Pass
	49				20.92	-1.83	16.94	<=34.77	Pass	
25	0			20.03	-1.83	16.05	<=34.77	Pass		
	13			20.05	-1.83	16.07	<=34.77	Pass		
	25			20.08	-1.83	16.10	<=34.77	Pass		
50	0			19.98	-1.83	16.00	<=34.77	Pass		
710	1			0	20.95	-1.83	16.97	<=34.77	Pass	
				25	21.27	-1.83	17.29	<=34.77	Pass	
			49	21.05	-1.83	17.07	<=34.77	Pass		
	25		0	19.90	-1.83	15.92	<=34.77	Pass		
			13	19.98	-1.83	16.00	<=34.77	Pass		
			25	19.98	-1.83	16.00	<=34.77	Pass		
	50		0	19.91	-1.83	15.93	<=34.77	Pass		
	711		1	0	21.32	-1.83	17.34	<=34.77	Pass	
				25	21.63	-1.83	17.65	<=34.77	Pass	
49				21.41	-1.83	17.43	<=34.77	Pass		
25			0	19.93	-1.83	15.95	<=34.77	Pass		
			13	20.02	-1.83	16.04	<=34.77	Pass		
			25	19.95	-1.83	15.97	<=34.77	Pass		
50			0	19.92	-1.83	15.94	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B17_5MHz

Band: 17 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	706.5	25	0	20	3.27	-7.138	-0.0101	-2.5 to 2.5	Pass

					3.85	-5.236	-0.0074	-2.5 to 2.5	Pass
					4.43	-4.506	-0.0064	-2.5 to 2.5	Pass
				-30	3.85	-5.078	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-3.247	-0.0046	-2.5 to 2.5	Pass
				-10	3.85	-5.636	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-6.180	-0.0087	-2.5 to 2.5	Pass
				10	3.85	-4.449	-0.0063	-2.5 to 2.5	Pass
				30	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass
				40	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-1.860	-0.0026	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-7.639	-0.0108	-2.5 to 2.5	Pass
					3.85	-7.596	-0.0107	-2.5 to 2.5	Pass
					4.43	-7.625	-0.0107	-2.5 to 2.5	Pass
				-30	3.85	-5.808	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-5.579	-0.0079	-2.5 to 2.5	Pass
				-10	3.85	-6.337	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-7.167	-0.0101	-2.5 to 2.5	Pass
				10	3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-3.576	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-7.467	-0.0105	-2.5 to 2.5	Pass
	50	3.85	-7.968	-0.0112	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.27	-2.689	-0.0038	-2.5 to 2.5	Pass
					3.85	-6.909	-0.0097	-2.5 to 2.5	Pass
					4.43	-4.792	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-7.582	-0.0106	-2.5 to 2.5	Pass
				-20	3.85	-8.612	-0.0121	-2.5 to 2.5	Pass
				-10	3.85	-8.097	-0.0113	-2.5 to 2.5	Pass
				0	3.85	-5.393	-0.0076	-2.5 to 2.5	Pass
10				3.85	-6.080	-0.0085	-2.5 to 2.5	Pass	
30				3.85	-4.349	-0.0061	-2.5 to 2.5	Pass	
40				3.85	-4.220	-0.0059	-2.5 to 2.5	Pass	
50	3.85	-6.151	-0.0086	-2.5 to 2.5	Pass				
16QAM	706.5	25	0	20	3.27	-6.537	-0.0093	-2.5 to 2.5	Pass
					3.85	-7.124	-0.0101	-2.5 to 2.5	Pass
					4.43	-5.565	-0.0079	-2.5 to 2.5	Pass
				-30	3.85	-5.965	-0.0084	-2.5 to 2.5	Pass
				-20	3.85	-5.407	-0.0077	-2.5 to 2.5	Pass
				-10	3.85	-6.723	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-8.297	-0.0117	-2.5 to 2.5	Pass
				30	3.85	-5.622	-0.0080	-2.5 to 2.5	Pass
				40	3.85	-6.738	-0.0095	-2.5 to 2.5	Pass
	50	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass			
	710	25	0	20	3.27	-5.937	-0.0084	-2.5 to 2.5	Pass
					3.85	-5.250	-0.0074	-2.5 to 2.5	Pass
					4.43	-4.678	-0.0066	-2.5 to 2.5	Pass
				-30	3.85	-4.134	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-4.935	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	1.431	0.0020	-2.5 to 2.5	Pass
				0	3.85	-2.518	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-9.599	-0.0135	-2.5 to 2.5	Pass
				30	3.85	-10.114	-0.0142	-2.5 to 2.5	Pass
				40	3.85	-5.851	-0.0082	-2.5 to 2.5	Pass
	50	3.85	-5.665	-0.0080	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.27	-1.488	-0.0021	-2.5 to 2.5	Pass
					3.85	-3.934	-0.0055	-2.5 to 2.5	Pass
					4.43	-5.493	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-6.595	-0.0092	-2.5 to 2.5	Pass

				-10	3.85	-8.655	-0.0121	-2.5 to 2.5	Pass
				0	3.85	-8.941	-0.0125	-2.5 to 2.5	Pass
				10	3.85	-3.061	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-6.094	-0.0085	-2.5 to 2.5	Pass
				40	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
				50	3.85	-8.469	-0.0119	-2.5 to 2.5	Pass

2.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	3.27	-6.981	-0.0098	-2.5 to 2.5	Pass
					3.85	-5.622	-0.0079	-2.5 to 2.5	Pass
					4.43	-5.407	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-5.822	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-5.794	-0.0082	-2.5 to 2.5	Pass
				-10	3.85	-3.891	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-5.908	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass
				30	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass
				40	3.85	-5.050	-0.0071	-2.5 to 2.5	Pass
	50	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass			
	710	50	0	20	3.27	-5.708	-0.0080	-2.5 to 2.5	Pass
					3.85	-4.649	-0.0065	-2.5 to 2.5	Pass
					4.43	-4.206	-0.0059	-2.5 to 2.5	Pass
				-30	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
				-20	3.85	-10.200	-0.0144	-2.5 to 2.5	Pass
				-10	3.85	-6.022	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-3.662	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-5.550	-0.0078	-2.5 to 2.5	Pass
				30	3.85	-8.841	-0.0125	-2.5 to 2.5	Pass
				40	3.85	-2.618	-0.0037	-2.5 to 2.5	Pass
	50	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	-3.719	-0.0052	-2.5 to 2.5	Pass
					3.85	-4.363	-0.0061	-2.5 to 2.5	Pass
					4.43	-8.454	-0.0119	-2.5 to 2.5	Pass
				-30	3.85	-8.297	-0.0117	-2.5 to 2.5	Pass
				-20	3.85	-3.619	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-3.676	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-6.595	-0.0093	-2.5 to 2.5	Pass
30				3.85	-7.024	-0.0099	-2.5 to 2.5	Pass	
40				3.85	-5.221	-0.0073	-2.5 to 2.5	Pass	
50	3.85	-6.237	-0.0088	-2.5 to 2.5	Pass				
16QAM	709	50	0	20	3.27	-8.926	-0.0126	-2.5 to 2.5	Pass
					3.85	-8.826	-0.0124	-2.5 to 2.5	Pass
					4.43	-5.808	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				-20	3.85	-6.466	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-6.337	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-3.290	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-4.692	-0.0066	-2.5 to 2.5	Pass
				30	3.85	-5.093	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-8.755	-0.0123	-2.5 to 2.5	Pass
	50	3.85	-9.413	-0.0133	-2.5 to 2.5	Pass			
	710	50	0	20	3.27	-2.675	-0.0038	-2.5 to 2.5	Pass

					3.85	-2.360	-0.0033	-2.5 to 2.5	Pass	
					4.43	-5.064	-0.0071	-2.5 to 2.5	Pass	
				-30	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass	
				-20	3.85	-5.078	-0.0072	-2.5 to 2.5	Pass	
				-10	3.85	-1.960	-0.0028	-2.5 to 2.5	Pass	
				0	3.85	-4.063	-0.0057	-2.5 to 2.5	Pass	
				10	3.85	-3.119	-0.0044	-2.5 to 2.5	Pass	
				30	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass	
				40	3.85	-3.133	-0.0044	-2.5 to 2.5	Pass	
	50	3.85	-1.659	-0.0023	-2.5 to 2.5	Pass				
	711	50	0	20		3.27	-6.166	-0.0087	-2.5 to 2.5	Pass
						3.85	-8.898	-0.0125	-2.5 to 2.5	Pass
						4.43	-6.638	-0.0093	-2.5 to 2.5	Pass
					-30	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
					-20	3.85	-5.536	-0.0078	-2.5 to 2.5	Pass
					-10	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass
					0	3.85	-8.898	-0.0125	-2.5 to 2.5	Pass
					10	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				30	3.85	-7.925	-0.0111	-2.5 to 2.5	Pass	
	40	3.85	-5.250	-0.0074	-2.5 to 2.5	Pass				
	50	3.85	-5.350	-0.0075	-2.5 to 2.5	Pass				

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

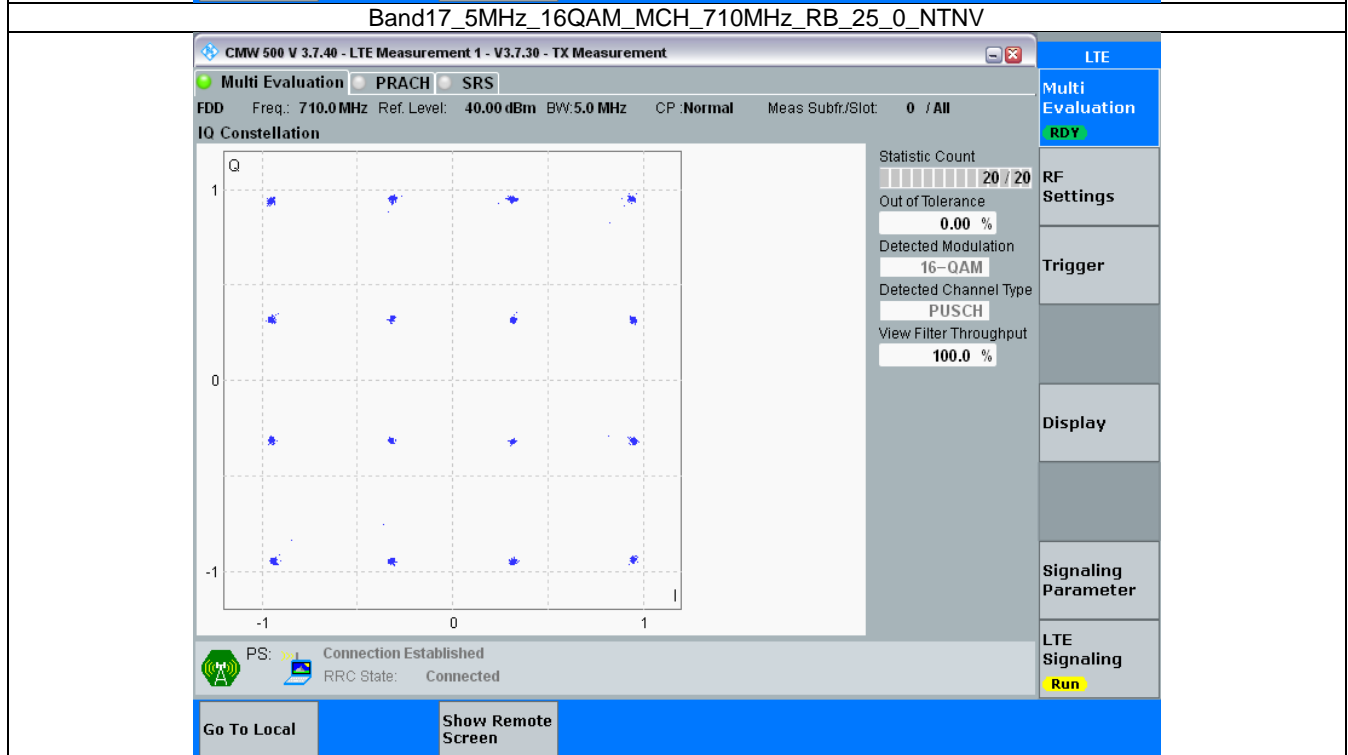
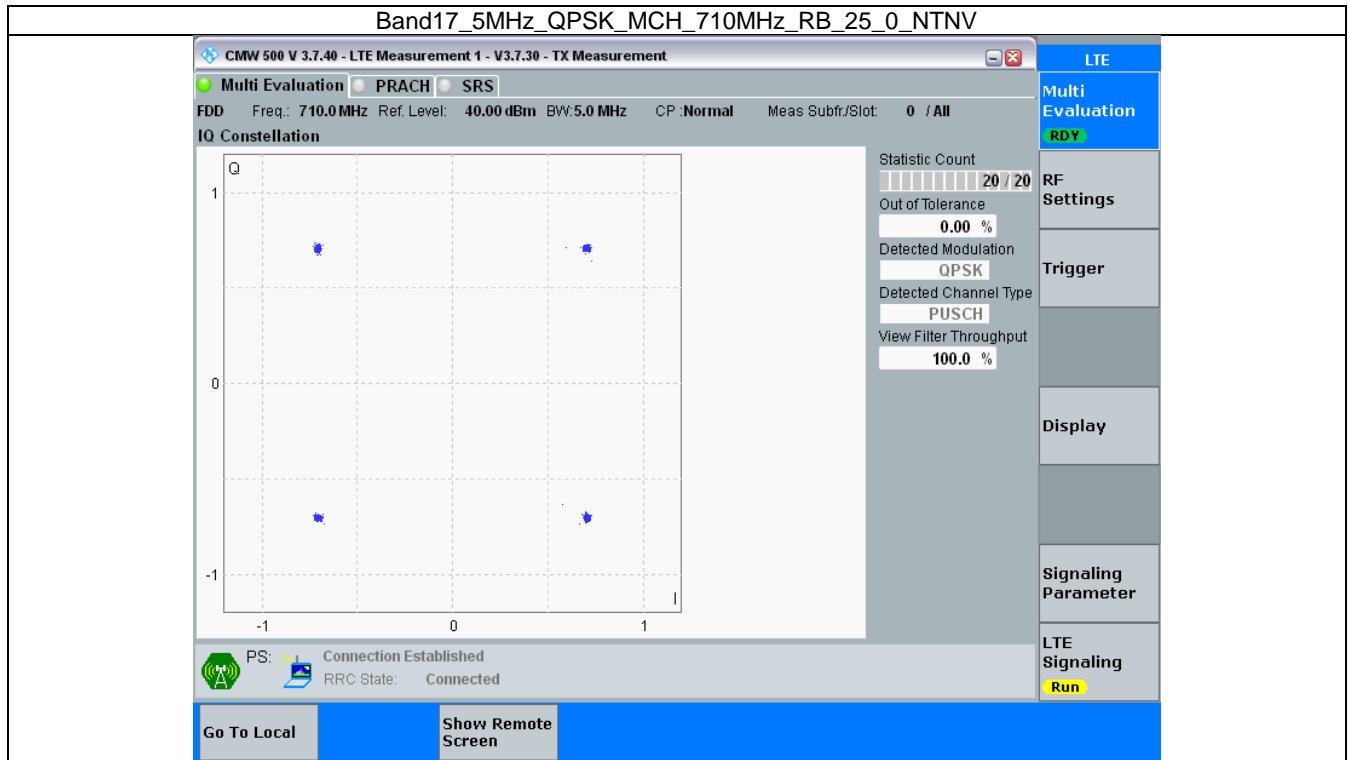
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

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

3.2 Test Graph

3.2.1 B17_5MHz



3.2.2 B17_10MHz

Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV

CMW 500 V 3.7.40 - LTE Measurement 1 - V3.7.30 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 710.0 MHz Ref. Level: 39.90 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: QPSK

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

LTE

Multi Evaluation **RDY**

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling **Run**

PS: Connection Established

RRC State: Connected

Go To Local

Show Remote Screen

Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV

CMW 500 V 3.7.40 - LTE Measurement 1 - V3.7.30 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 710.0 MHz Ref. Level: 39.90 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 16-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

LTE

Multi Evaluation **RDY**

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling **Run**

PS: Connection Established

RRC State: Connected

Go To Local

Show Remote Screen

4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band17_OBW

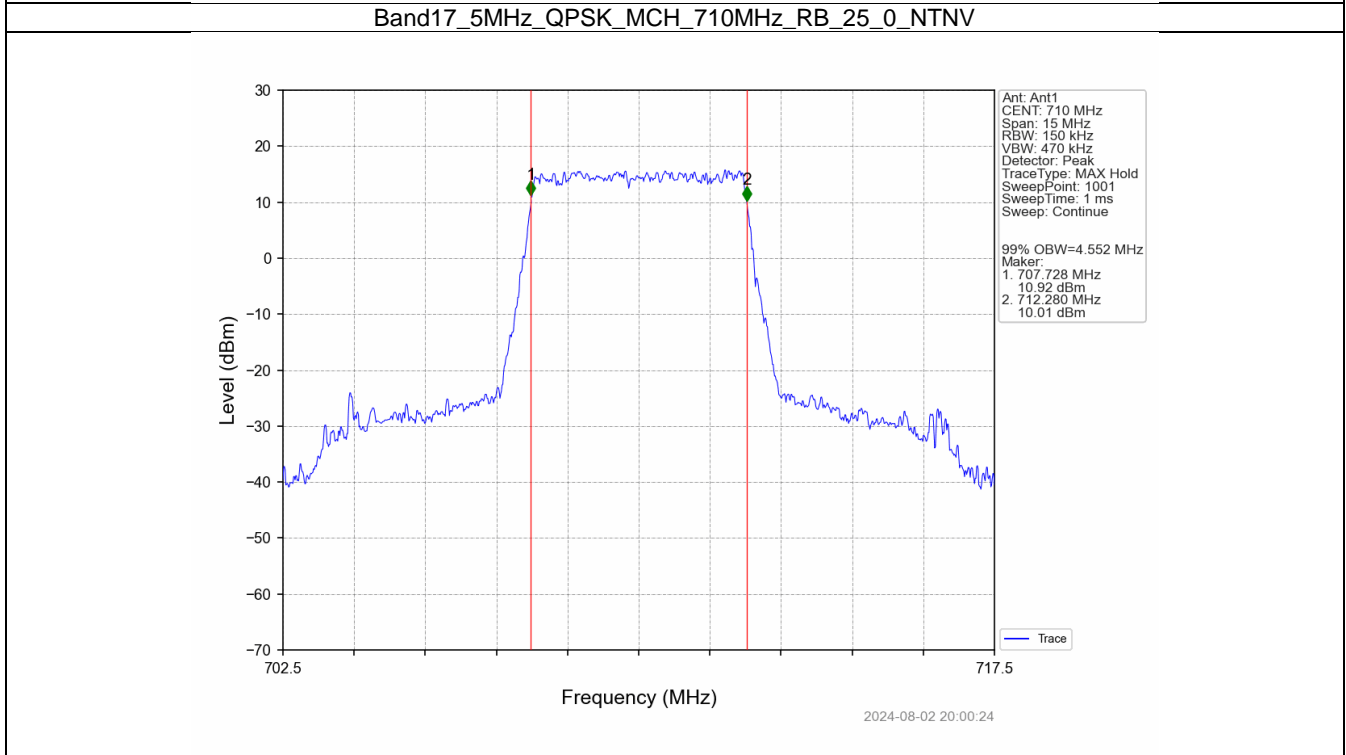
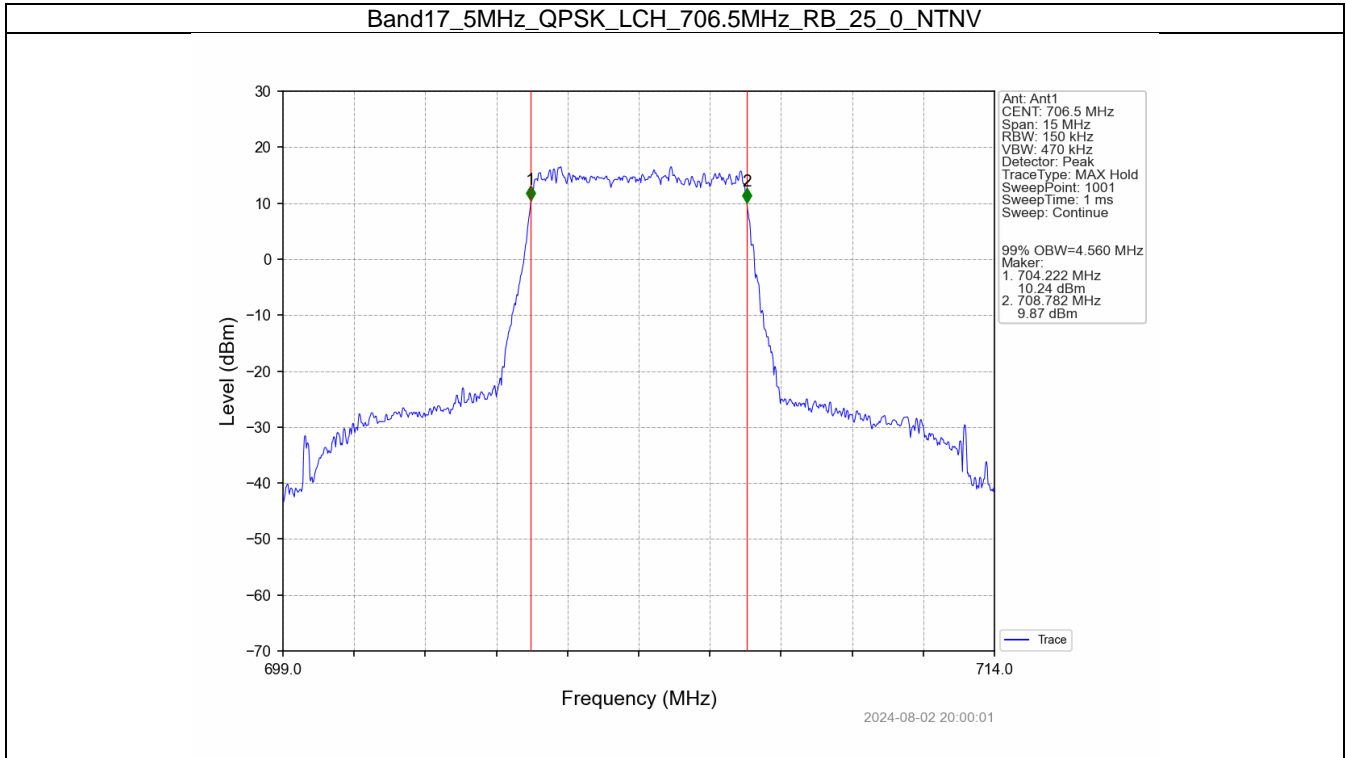
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.560	/	Pass
		710	25	0	4.552	/	Pass
		713.5	25	0	4.578	/	Pass
	16QAM	706.5	25	0	4.561	/	Pass
		710	25	0	4.582	/	Pass
		713.5	25	0	4.539	/	Pass
10	QPSK	709	50	0	9.050	/	Pass
		710	50	0	9.093	/	Pass
		711	50	0	9.066	/	Pass
	16QAM	709	50	0	9.089	/	Pass
		710	50	0	9.073	/	Pass
		711	50	0	9.076	/	Pass

4.1.2 Band17_XDB

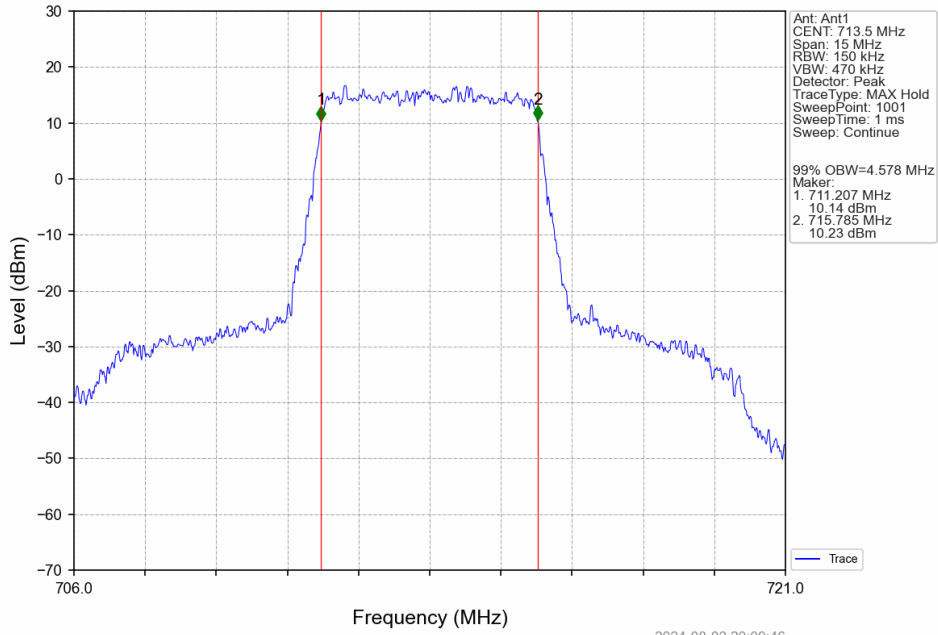
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.271	/	Pass
		710	25	0	5.233	/	Pass
		713.5	25	0	5.244	/	Pass
	16QAM	706.5	25	0	5.325	/	Pass
		710	25	0	5.291	/	Pass
		713.5	25	0	5.239	/	Pass
10	QPSK	709	50	0	10.277	/	Pass
		710	50	0	10.344	/	Pass
		711	50	0	10.186	/	Pass
	16QAM	709	50	0	10.267	/	Pass
		710	50	0	10.264	/	Pass
		711	50	0	10.287	/	Pass

4.2 Test Graph

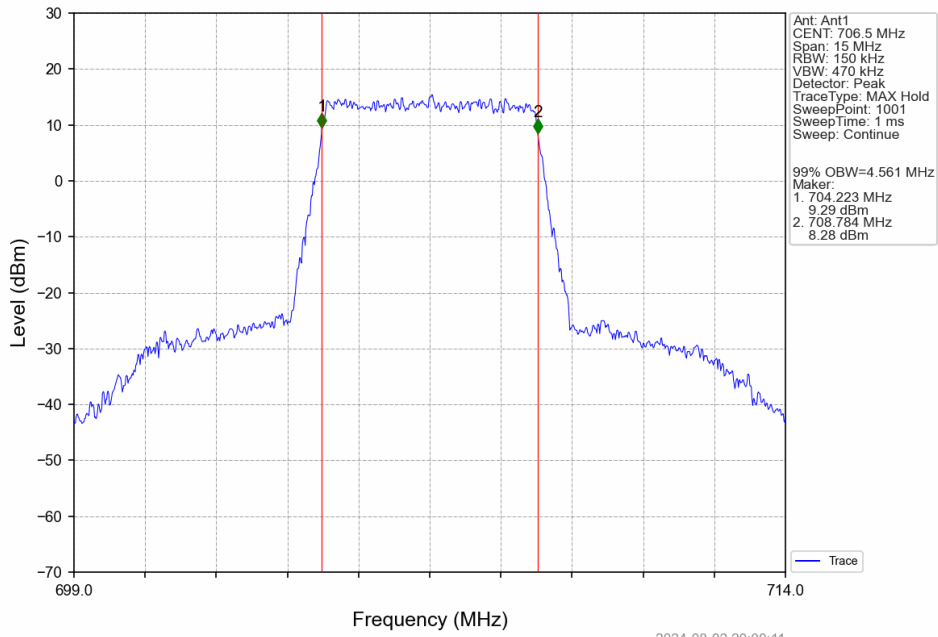
4.2.1 Band17_OBW



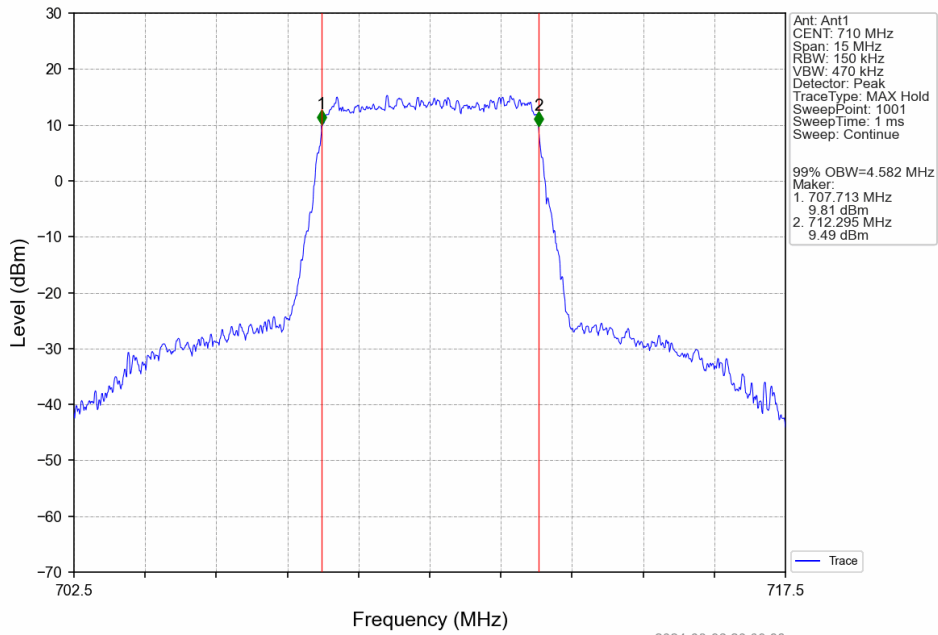
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



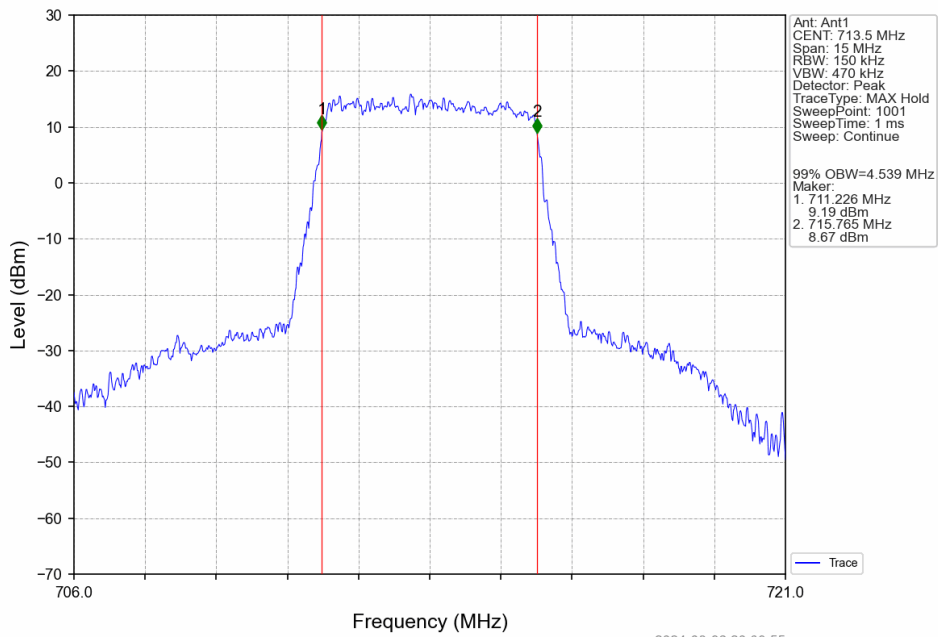
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



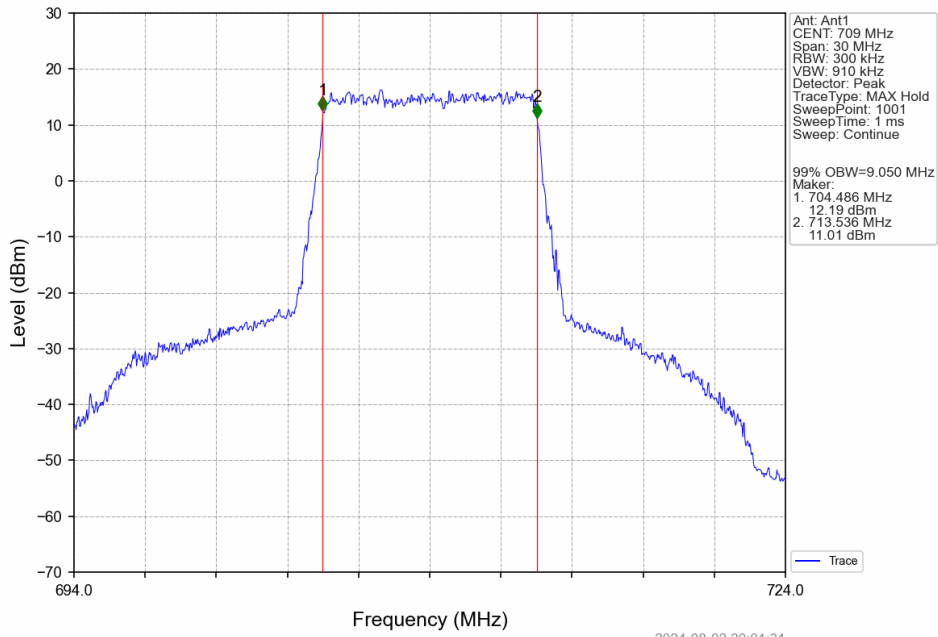
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



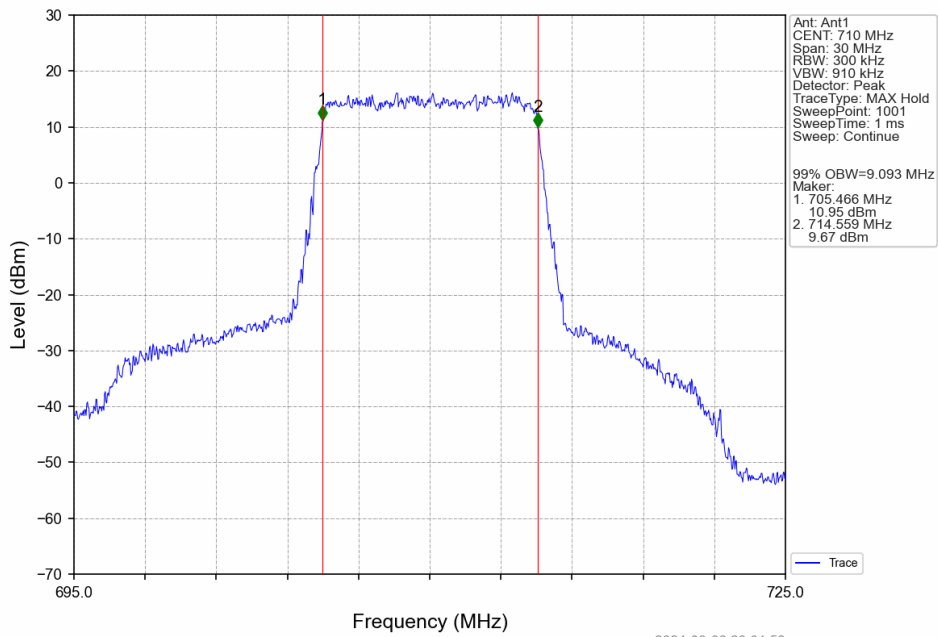
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



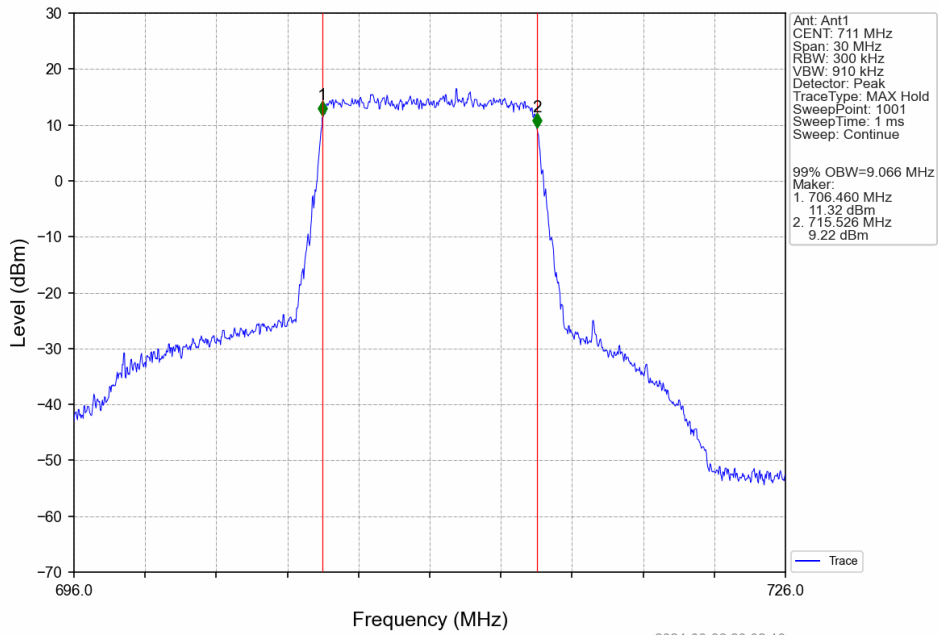
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



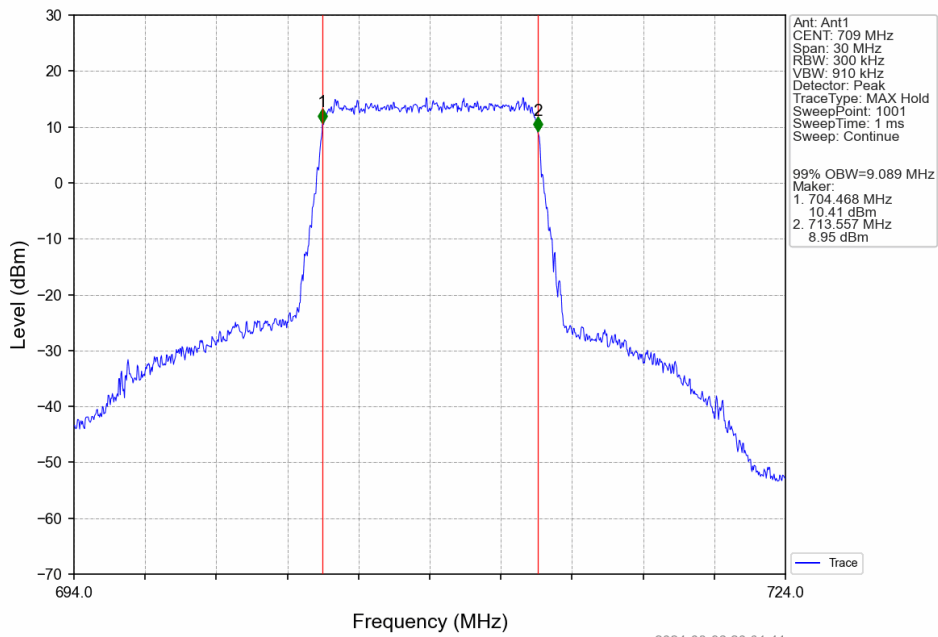
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



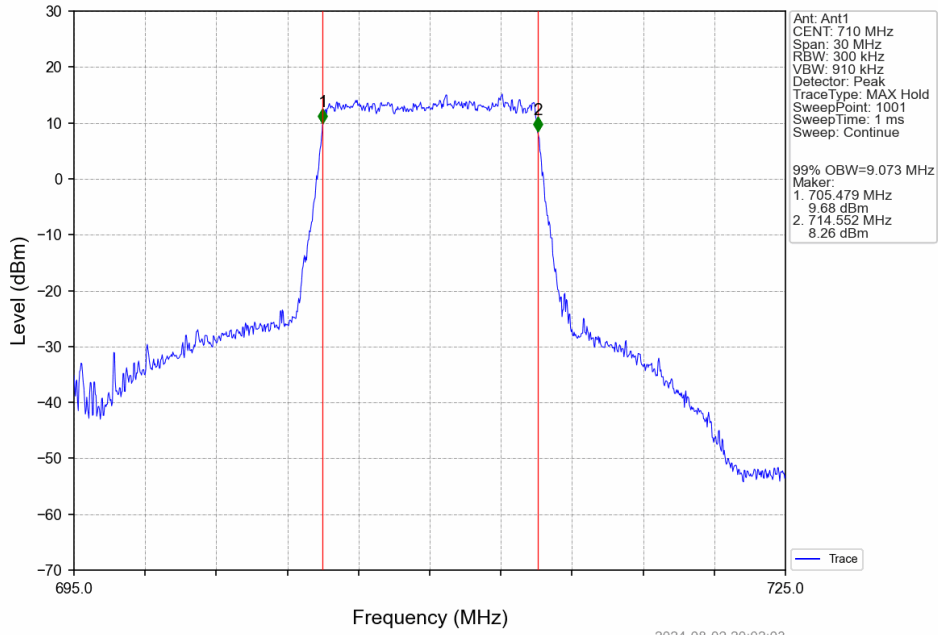
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



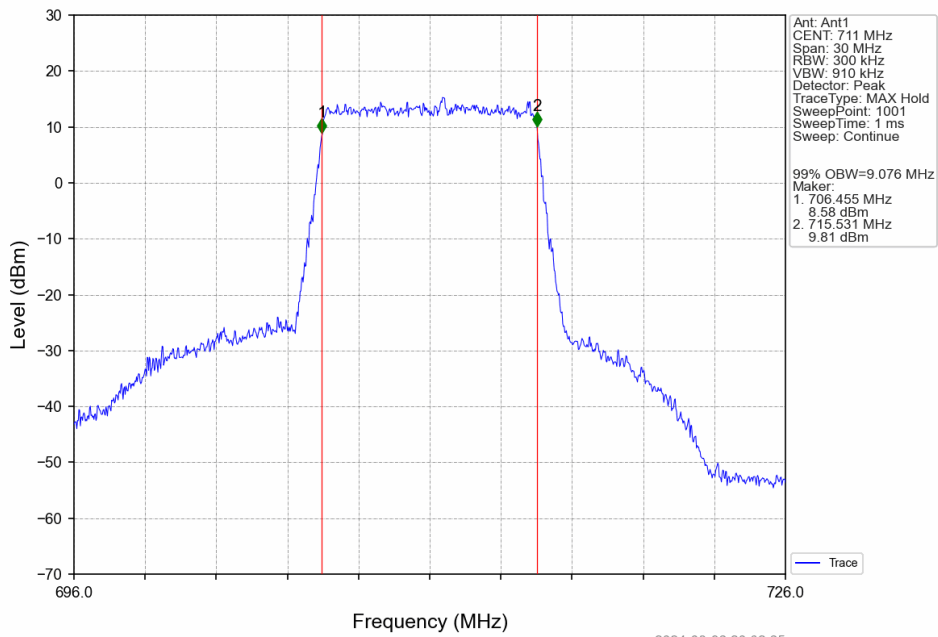
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



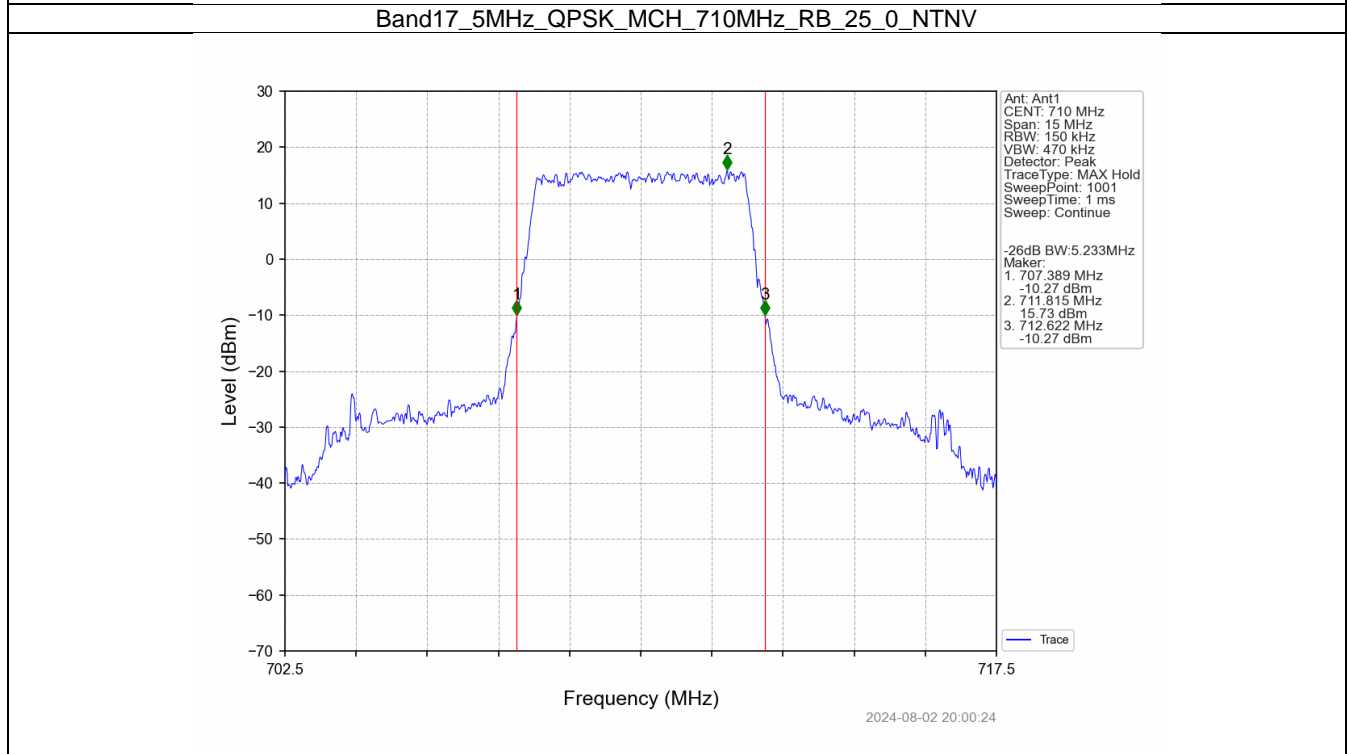
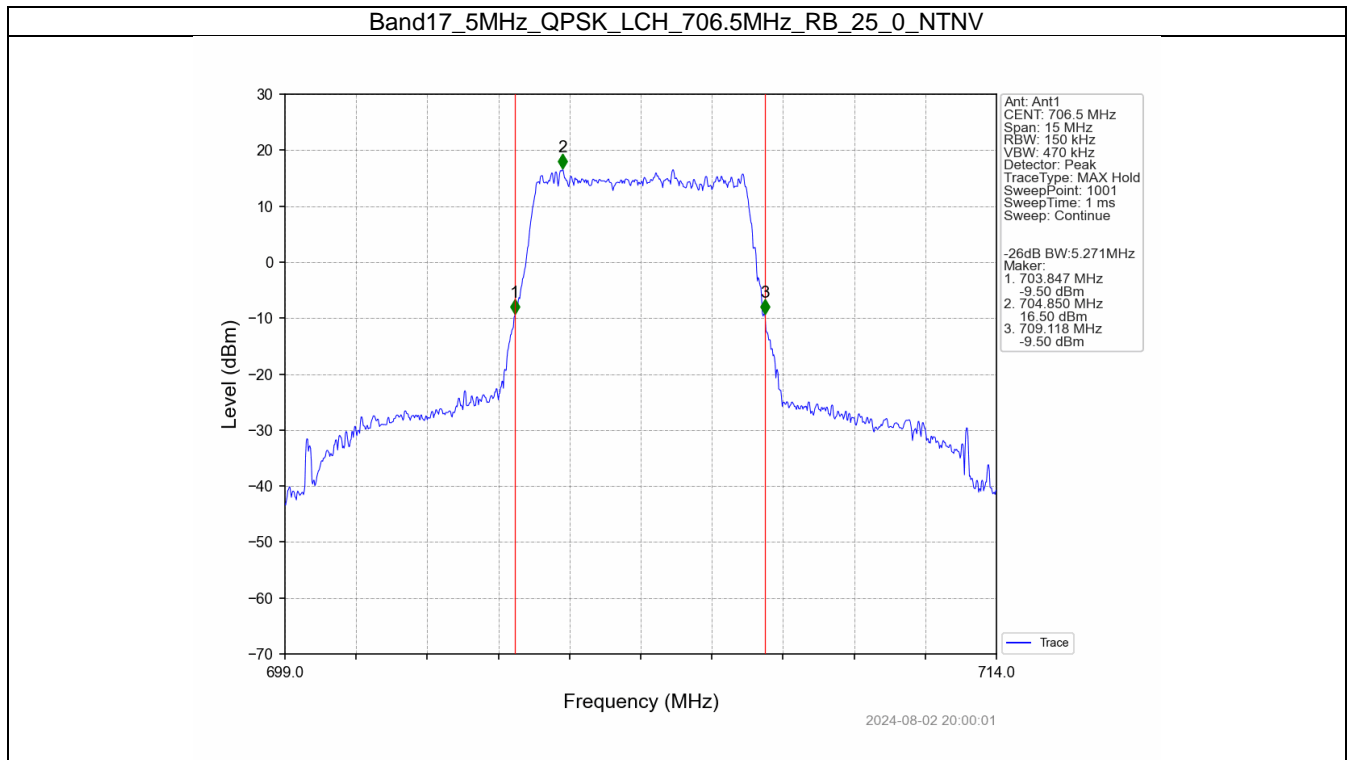
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



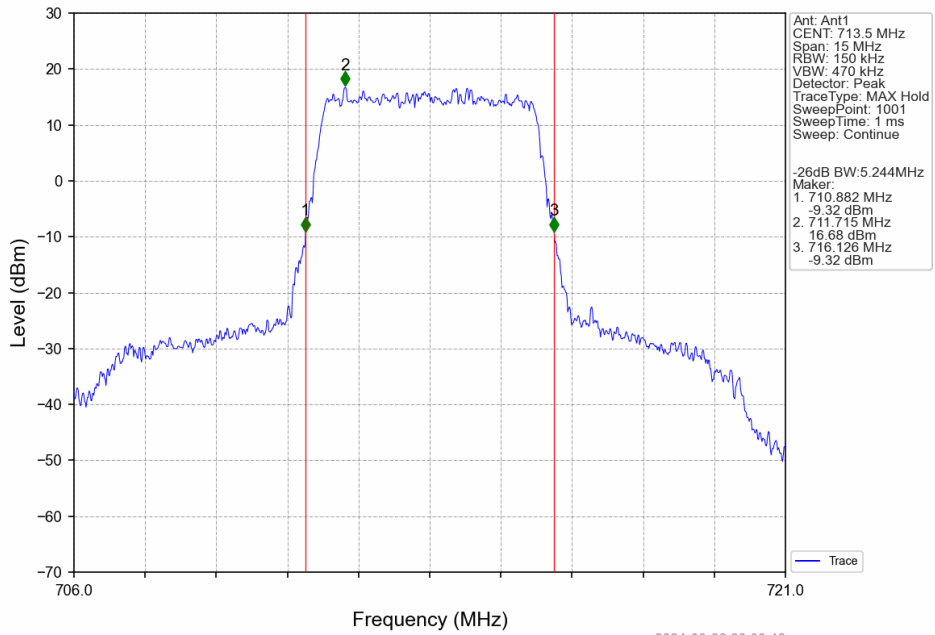
Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



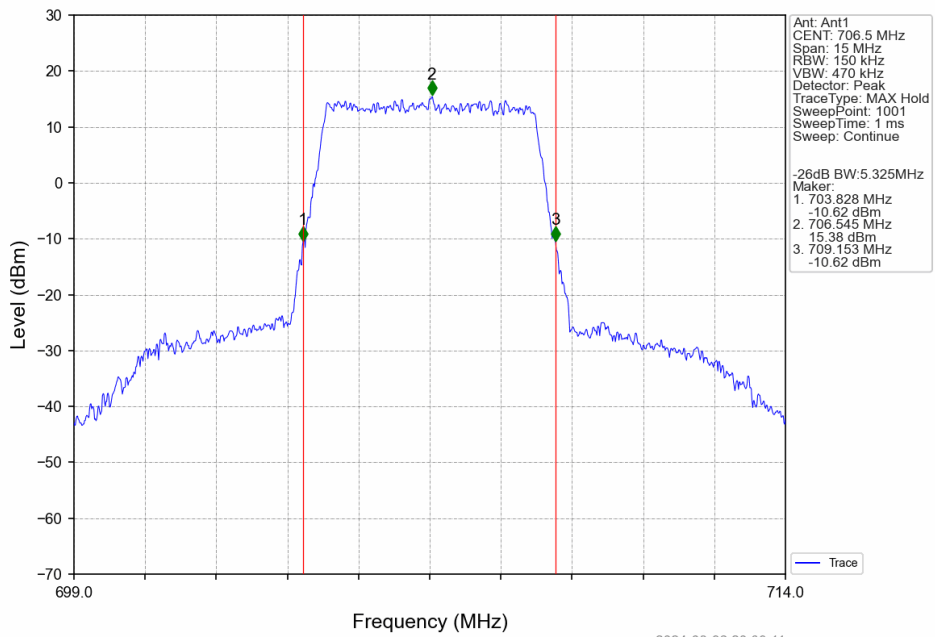
4.2.2 Band17_XDB



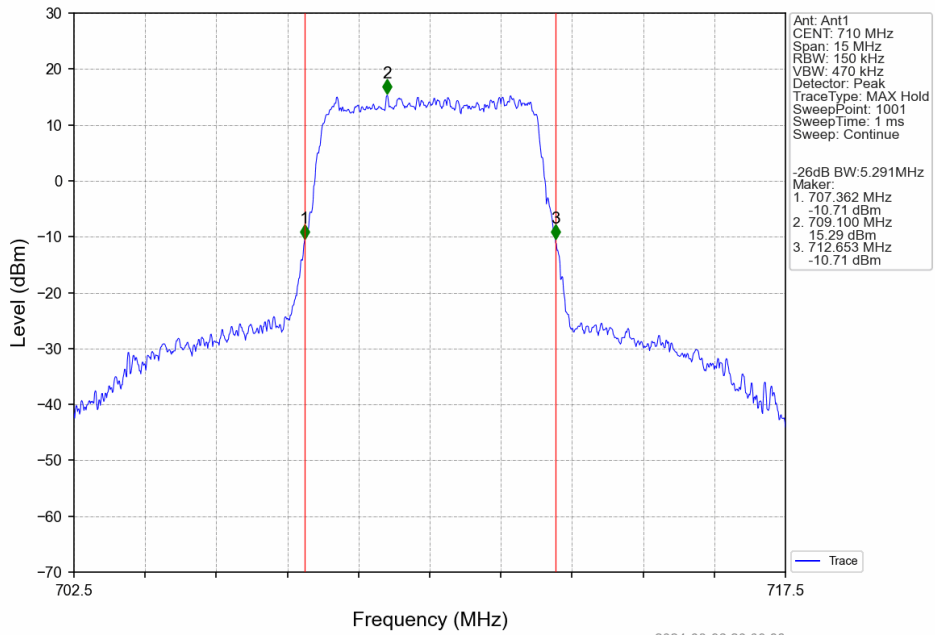
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



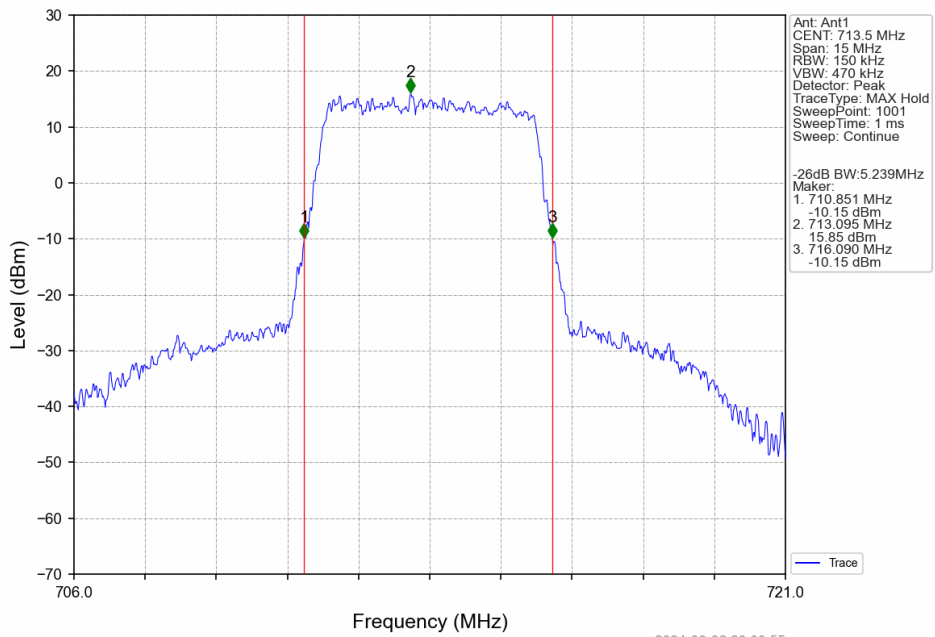
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



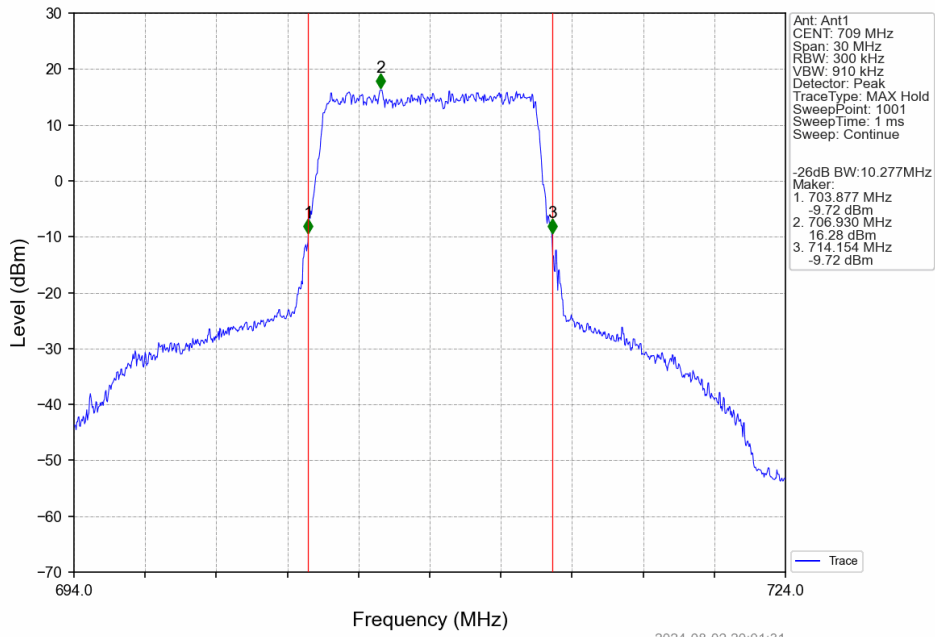
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



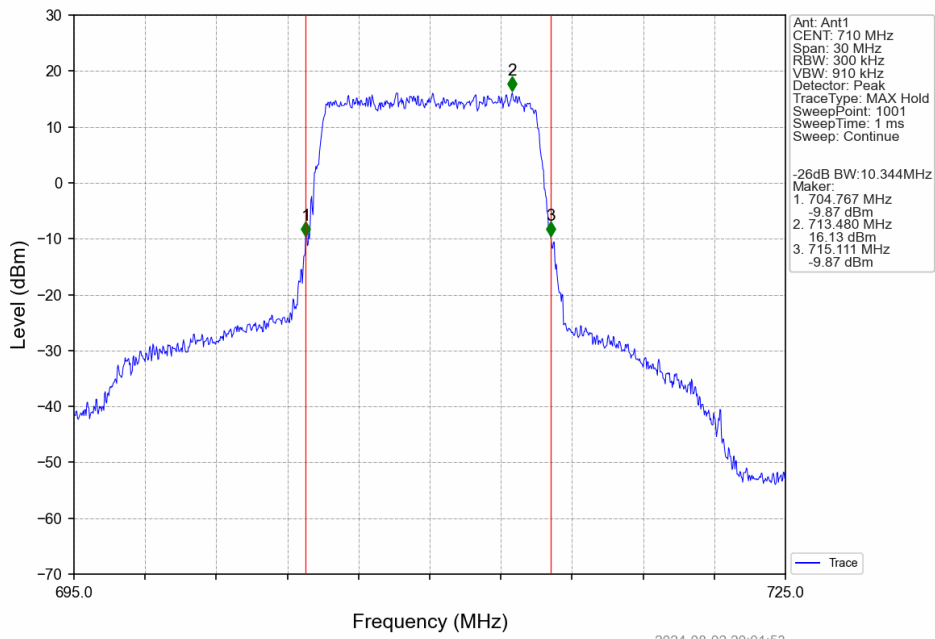
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



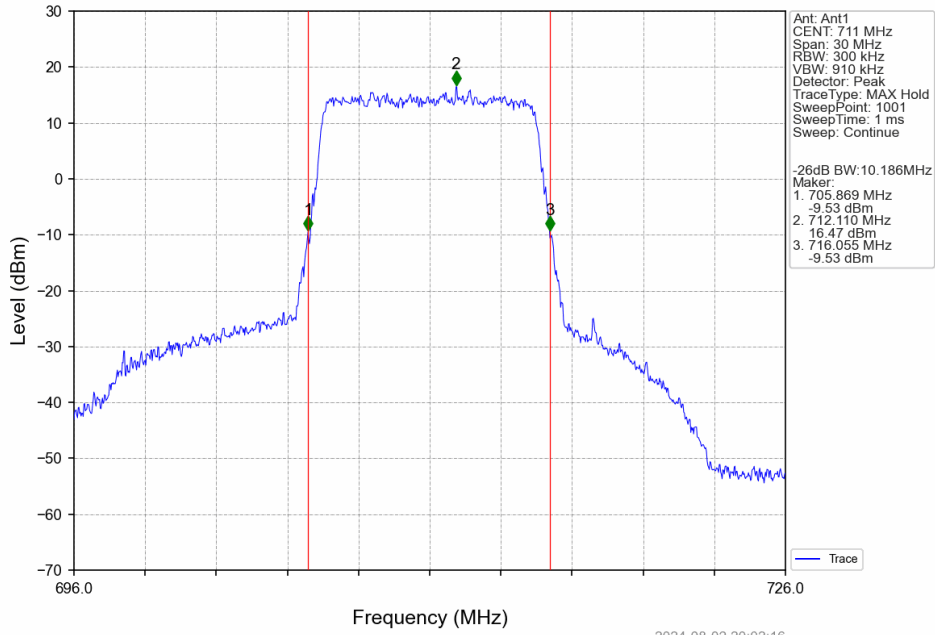
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



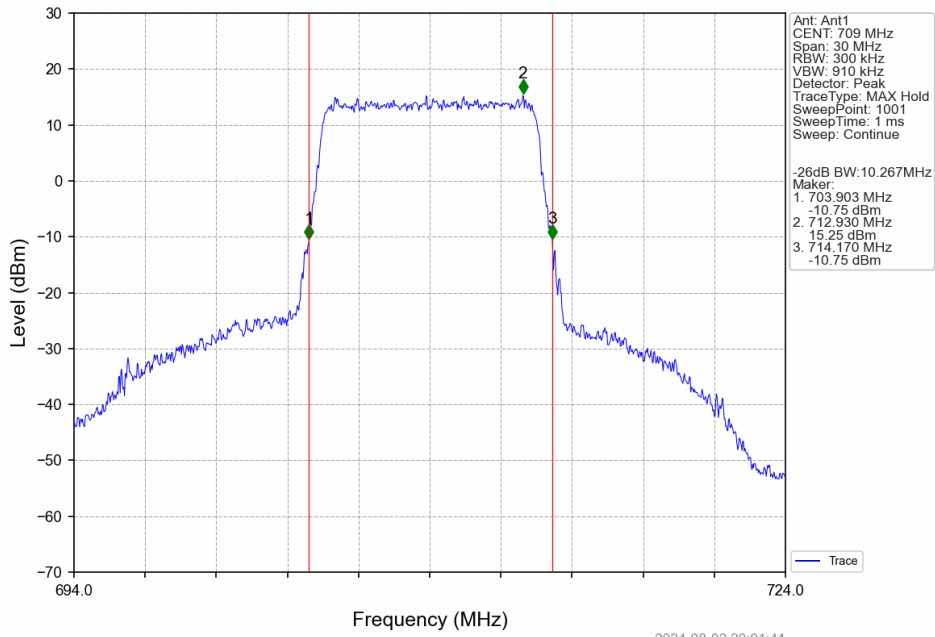
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



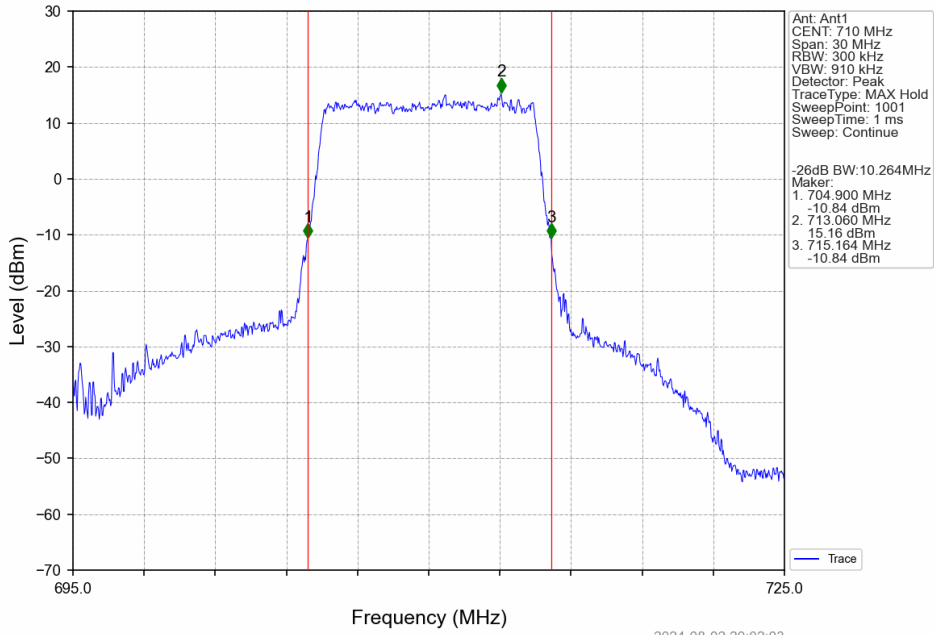
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



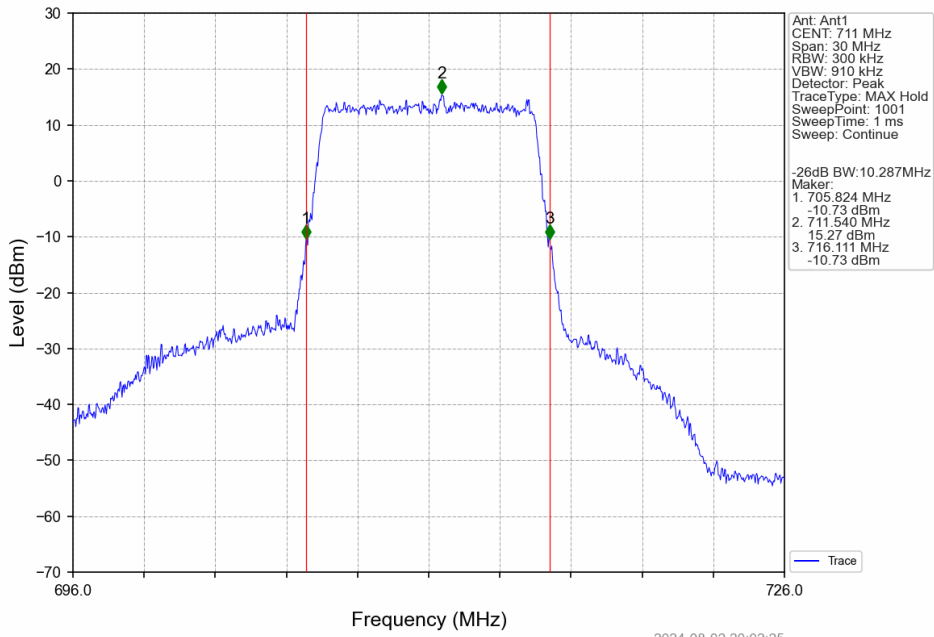
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B17_5MHz

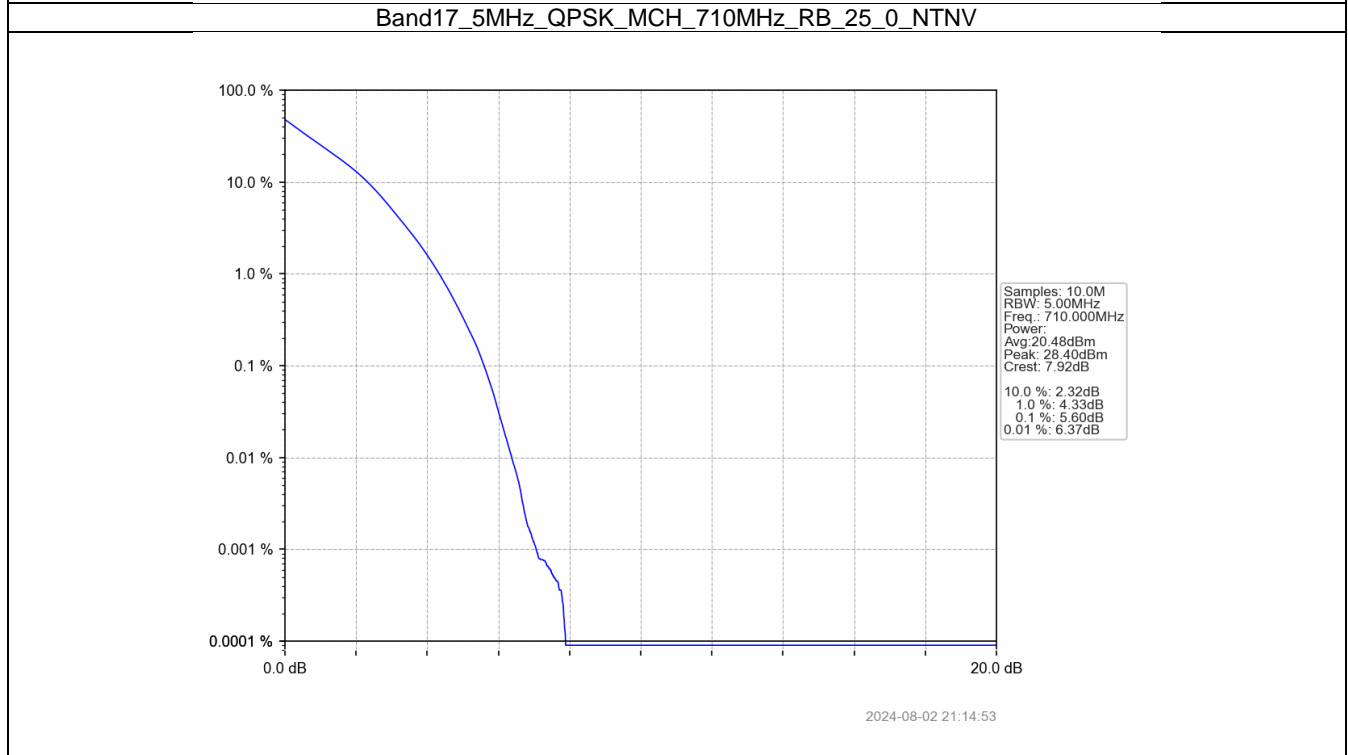
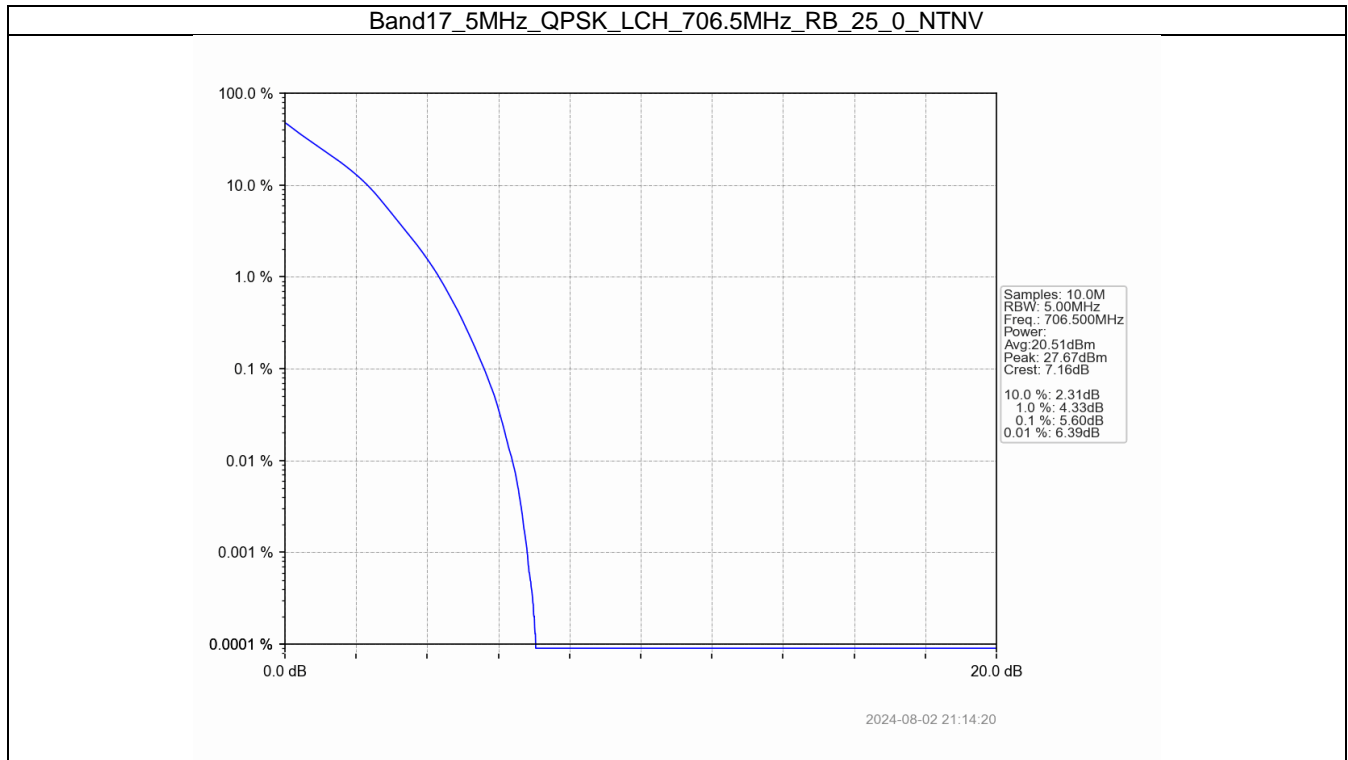
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.60	<=13	Pass
	710	25	0	5.60	<=13	Pass
	713.5	25	0	5.47	<=13	Pass
16QAM	706.5	25	0	6.26	<=13	Pass
	710	25	0	6.22	<=13	Pass
	713.5	25	0	6.11	<=13	Pass

5.1.2 B17_10MHz

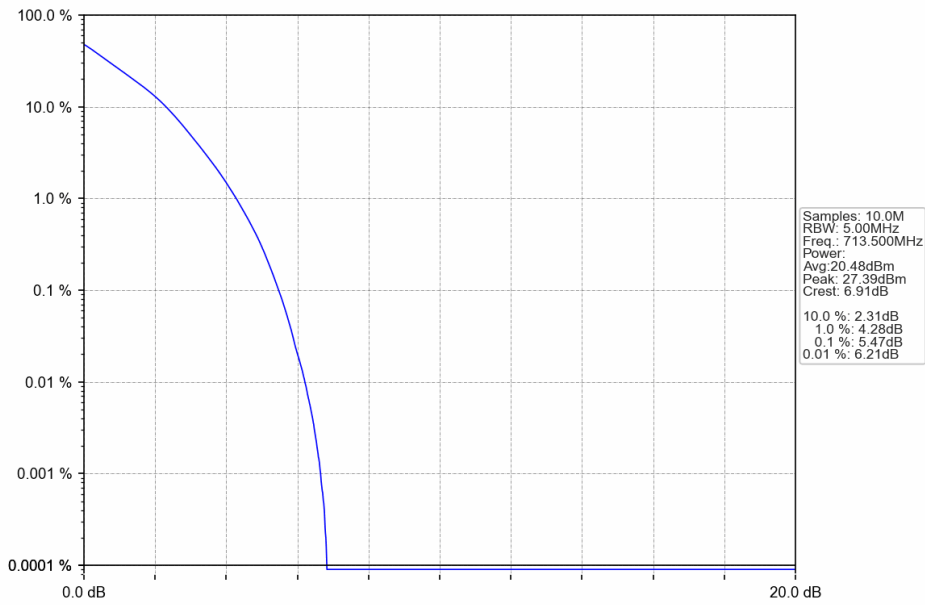
Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.57	<=13	Pass
	710	50	0	5.54	<=13	Pass
	711	50	0	5.51	<=13	Pass
16QAM	709	50	0	6.27	<=13	Pass
	710	50	0	6.25	<=13	Pass
	711	50	0	6.21	<=13	Pass

5.2 Test Graph

5.2.1 B17_5MHz

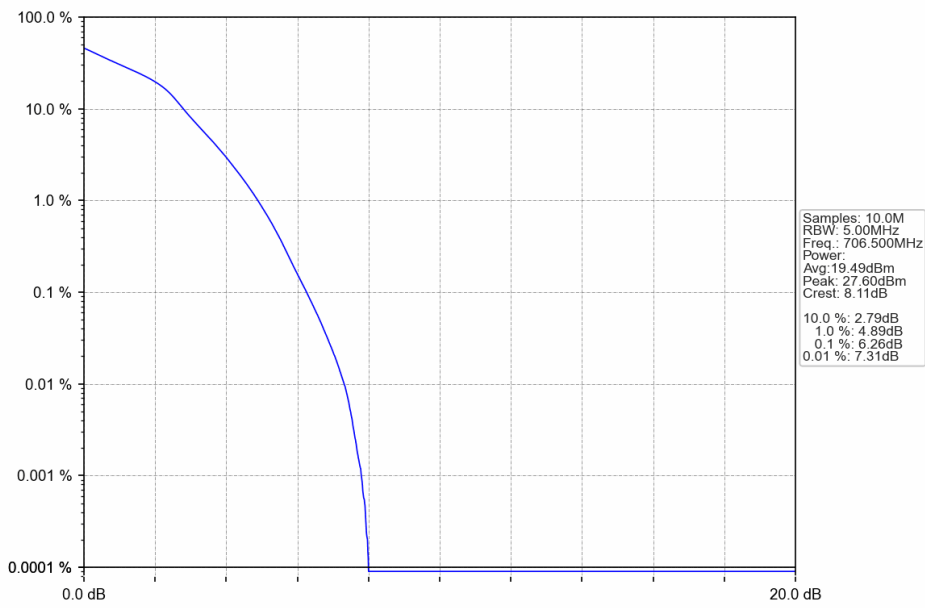


Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



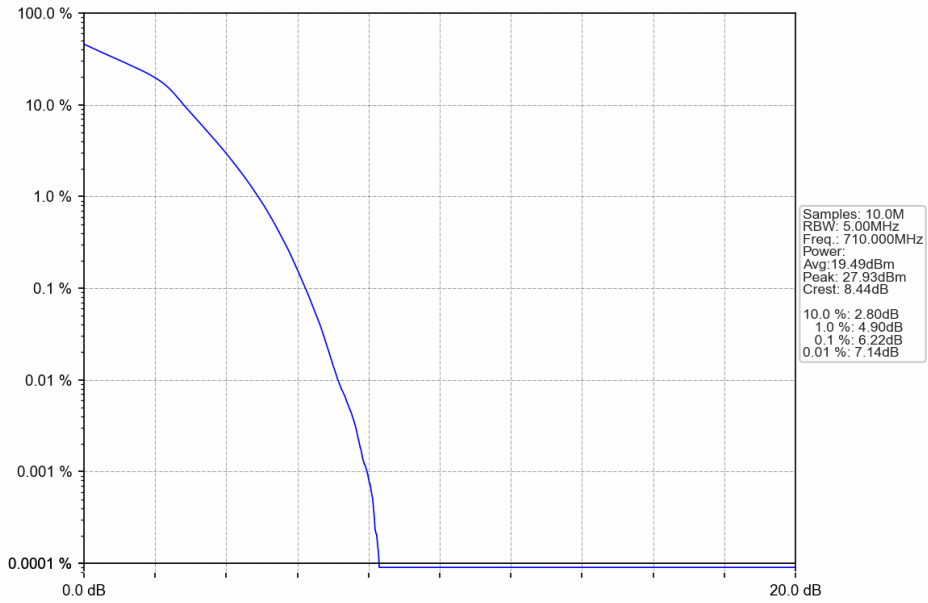
2024-08-02 21:15:24

Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



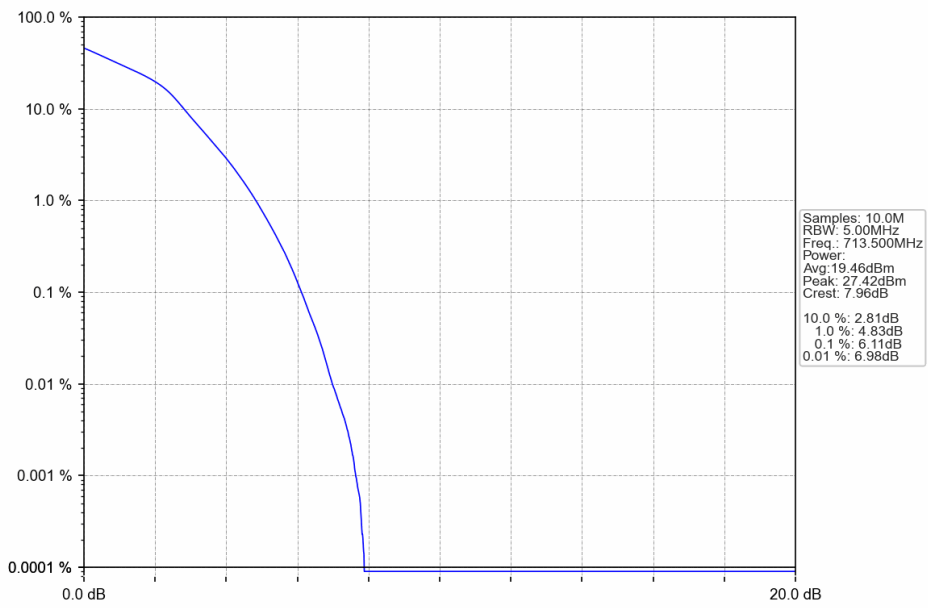
2024-08-02 21:14:35

Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



2024-08-02 21:15:08

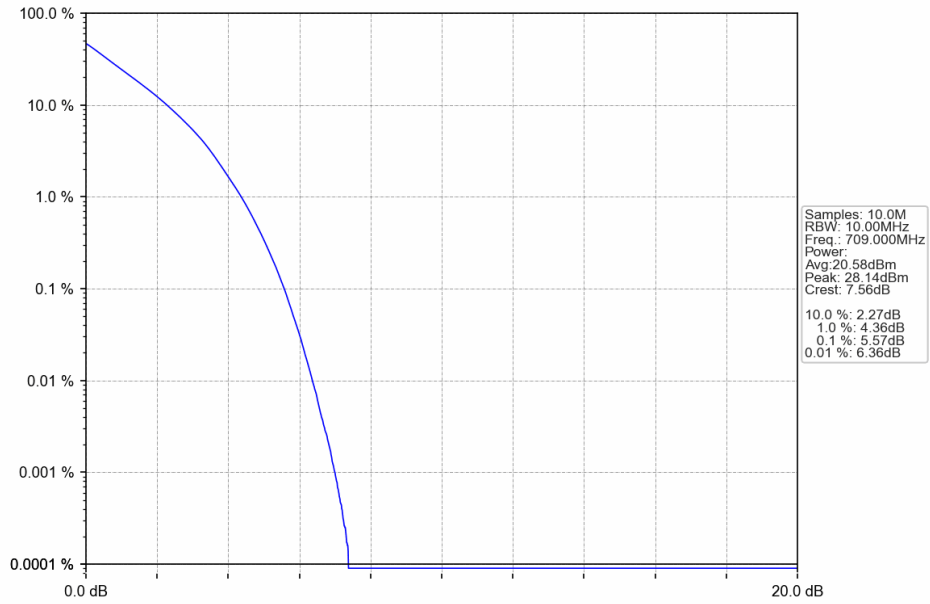
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



2024-08-02 21:15:38

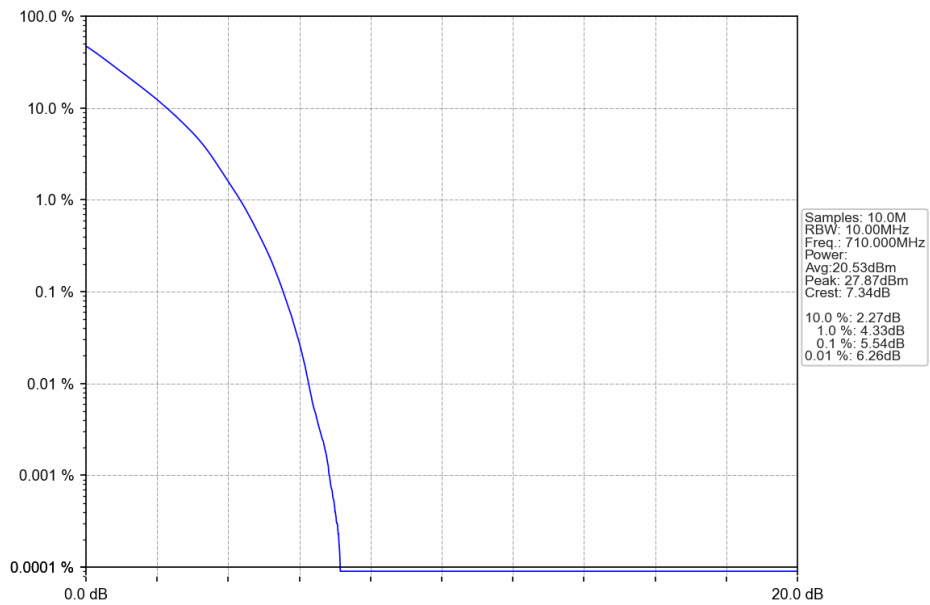
5.2.2 B17_10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



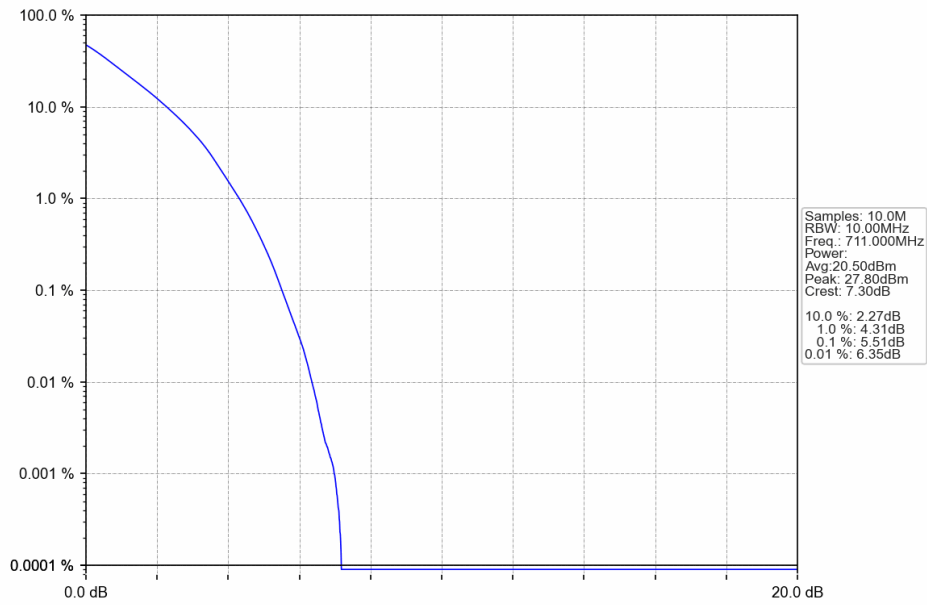
2024-08-02 21:16:24

Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



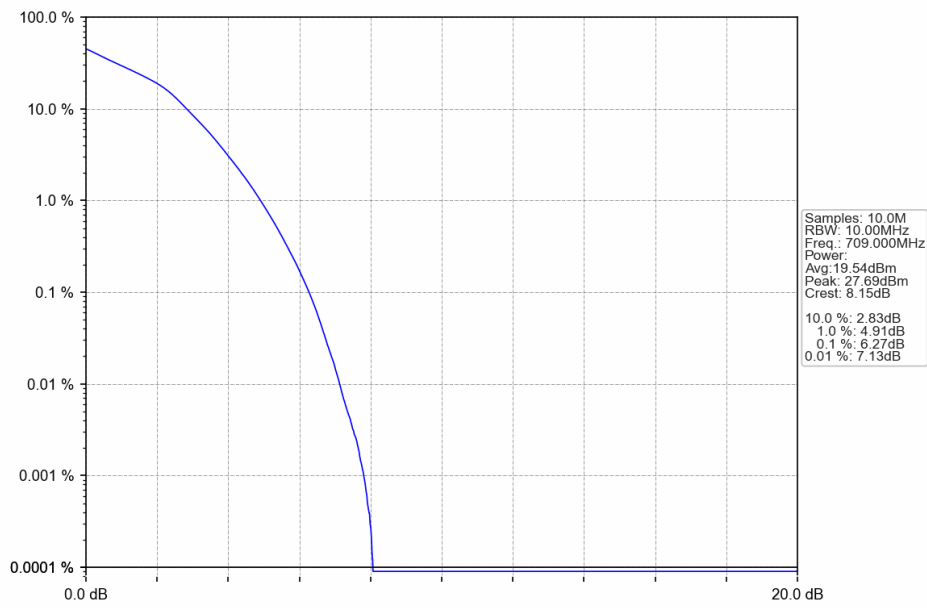
2024-08-02 21:17:01

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



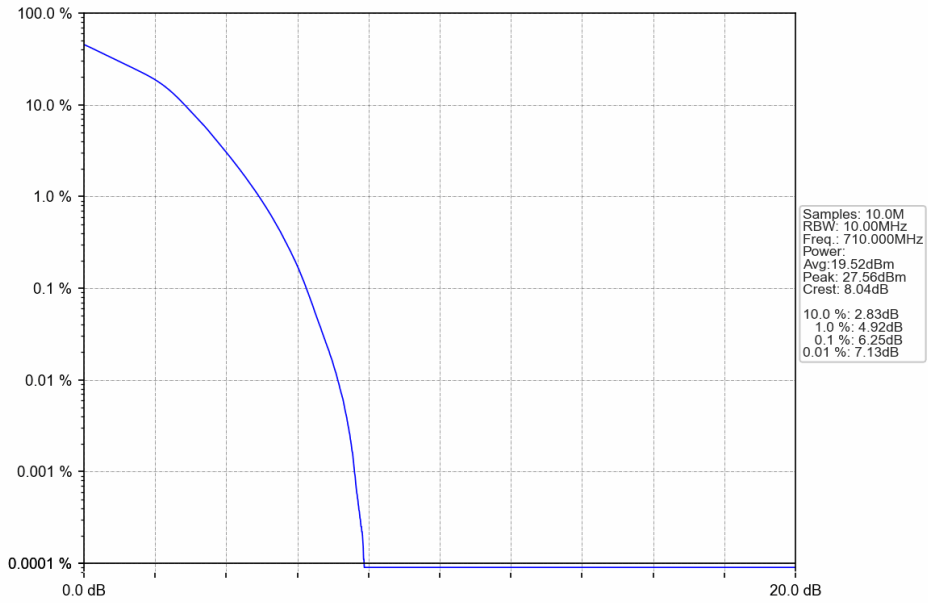
2024-08-02 21:17:39

Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



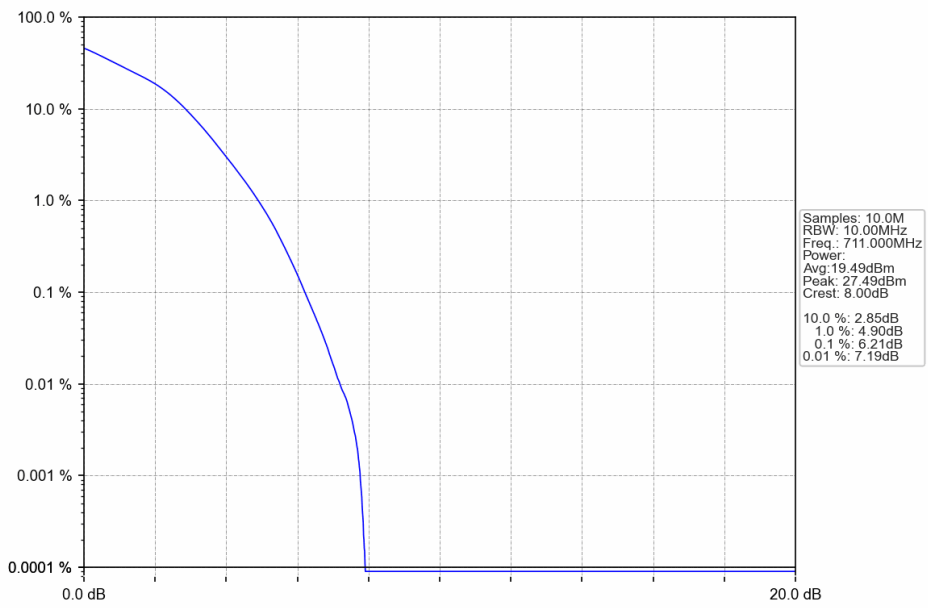
2024-08-02 21:16:42

Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



2024-08-02 21:17:19

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



2024-08-02 21:17:55

6. Spurious Emission

6.1 Test Result

6.1.1 B17_5MHz

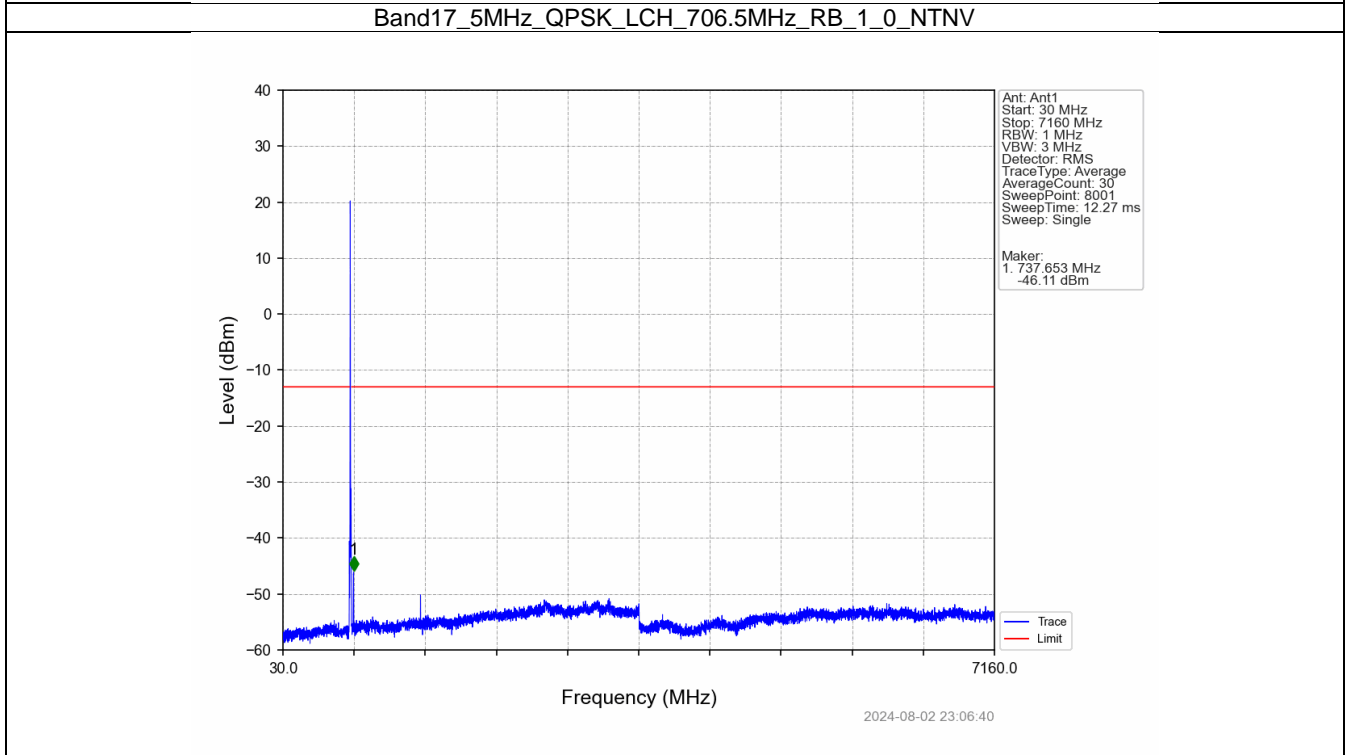
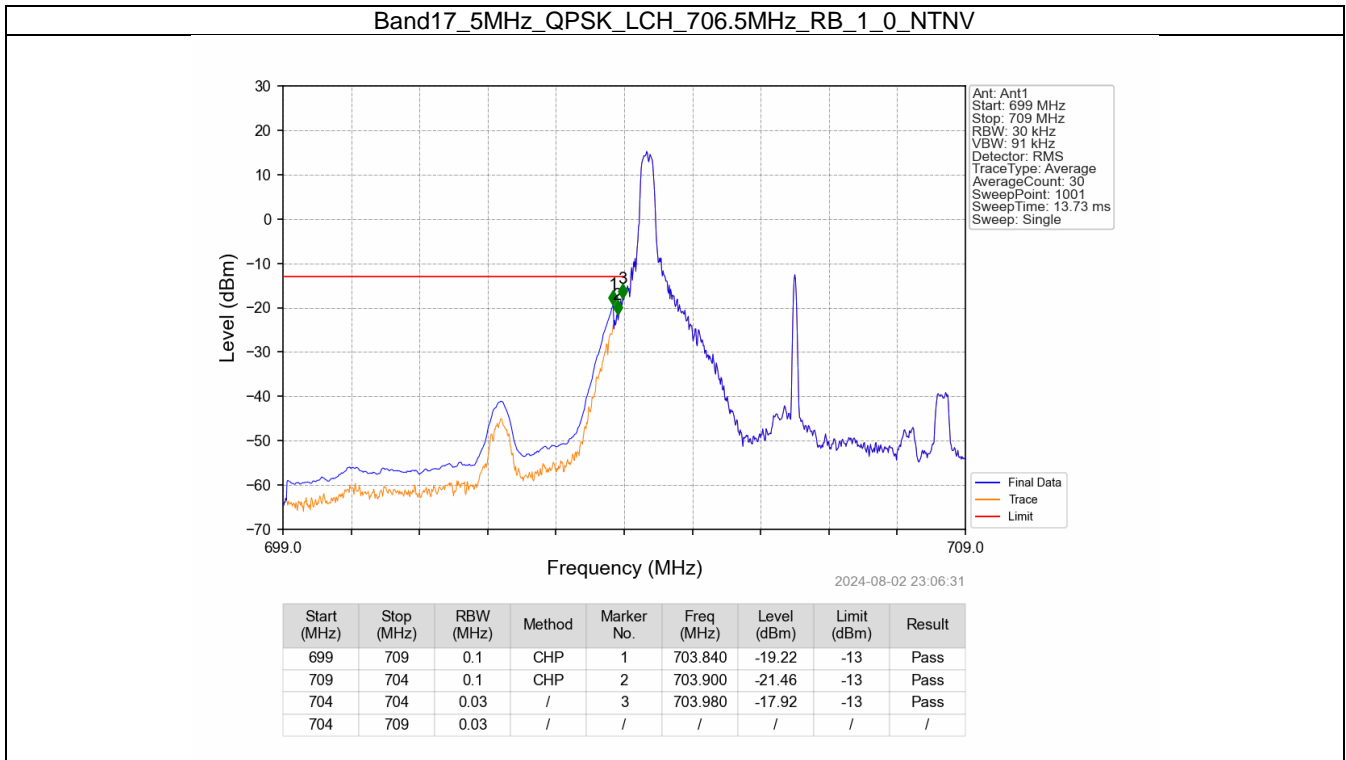
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

6.1.2 B17_10MHz

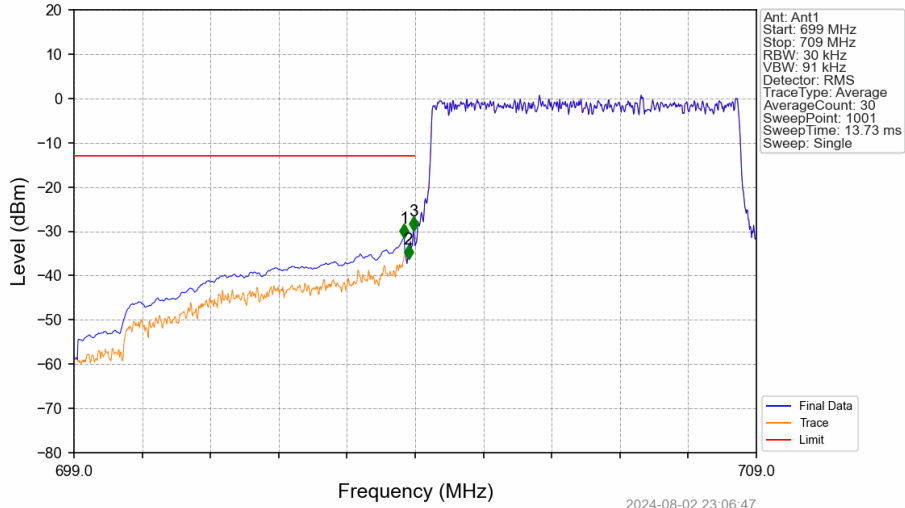
Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

6.2 Test Graph

6.2.1 B17_5MHz

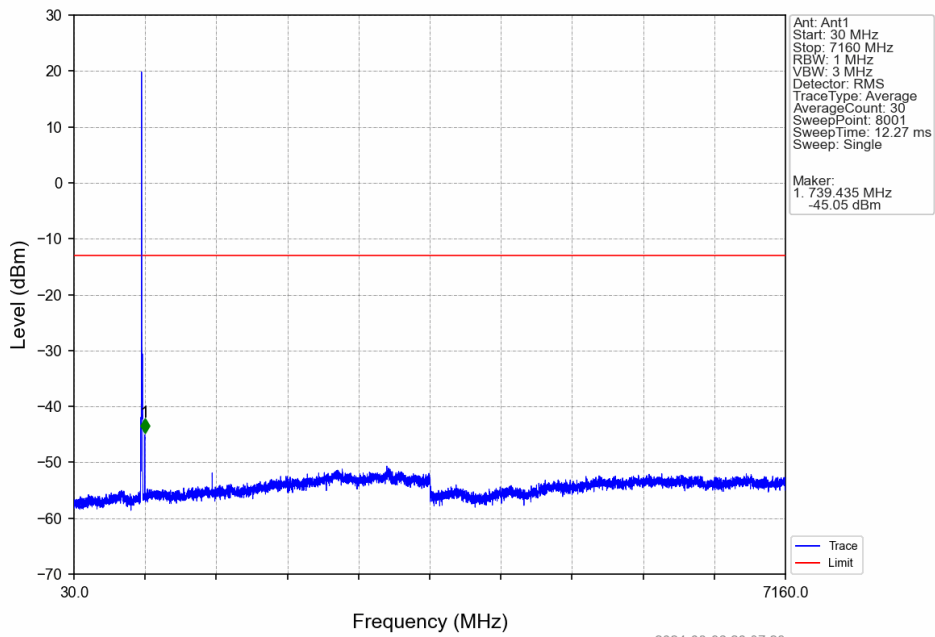


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

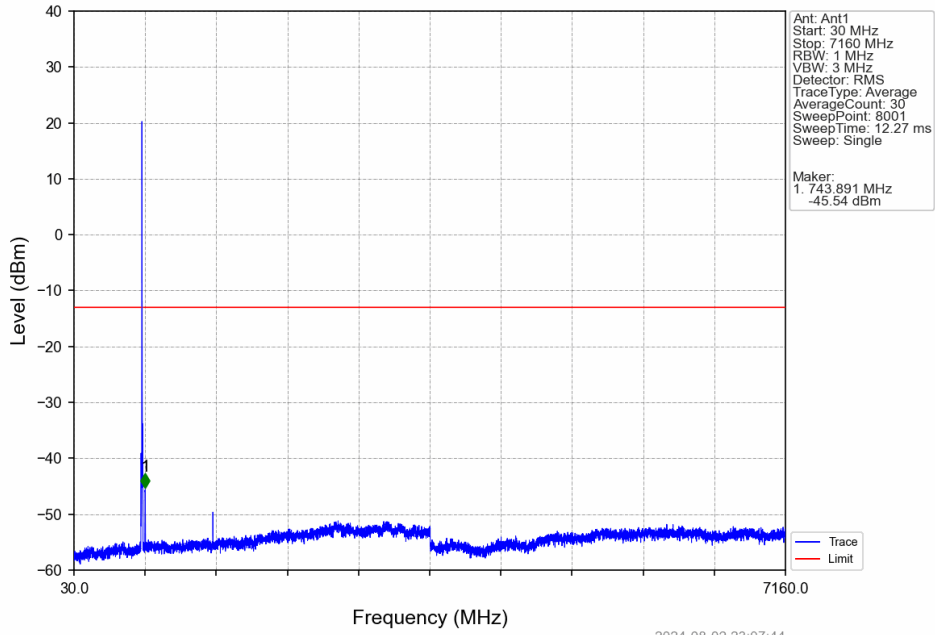


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	709	0.1	CHP	1	703.840	-31.49	-13	Pass
709	704	0.1	CHP	2	703.900	-36.20	-13	Pass
704	704	0.03	/	3	703.980	-29.86	-13	Pass
704	709	0.03	/	/	/	/	/	/

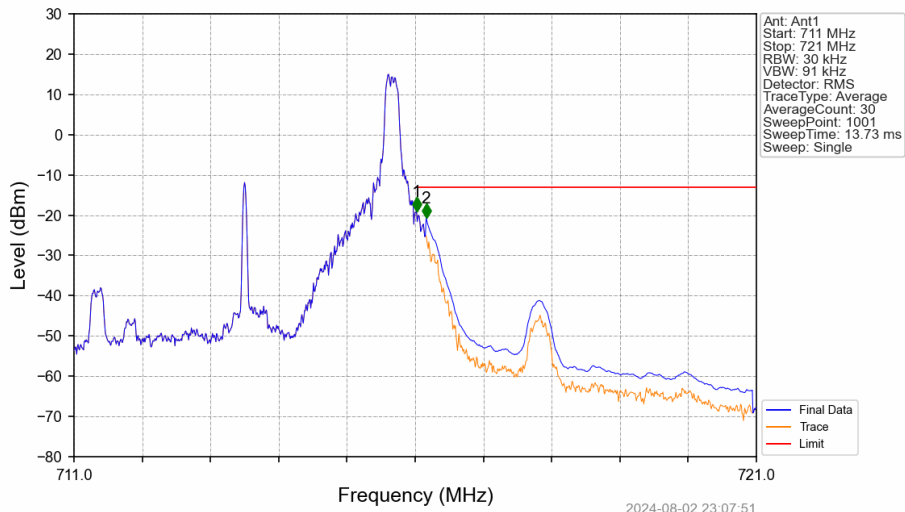
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

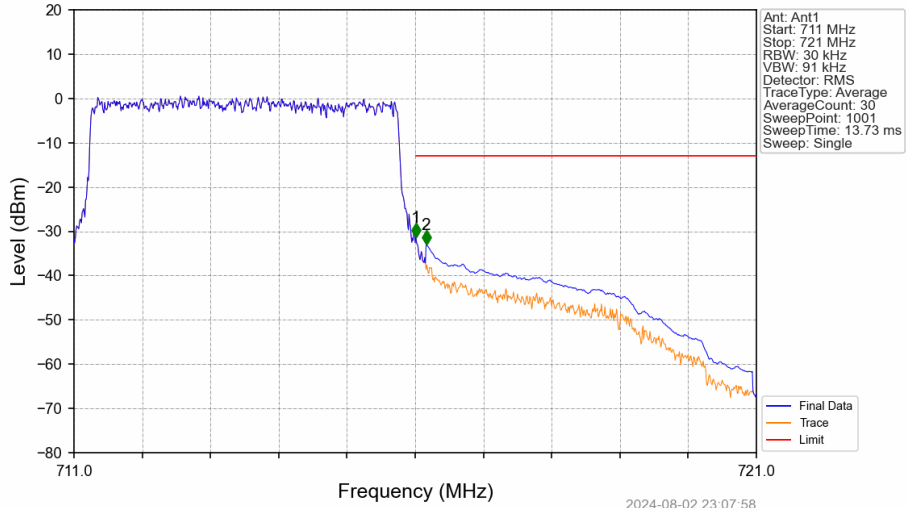


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-19.09	-13	Pass
716.1	721	0.1	CHP	2	716.160	-20.61	-13	Pass

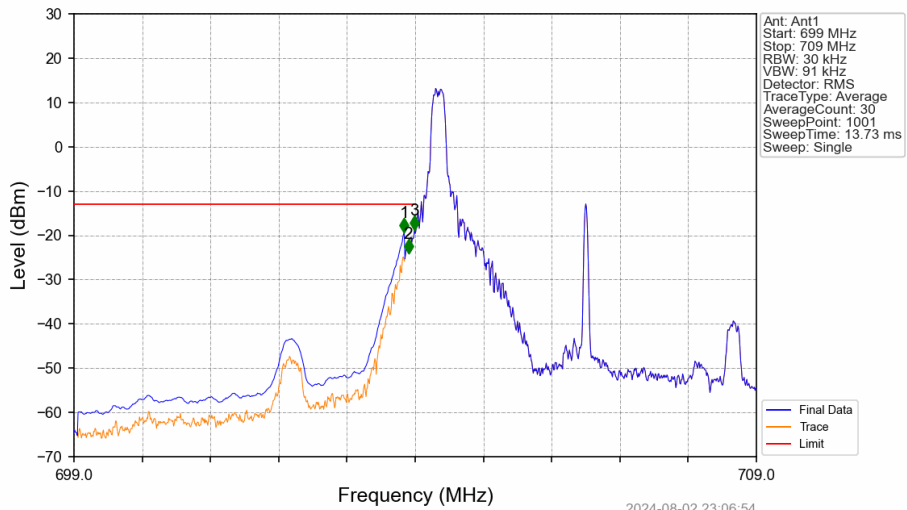
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-31.28	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.02	-13	Pass

2024-08-02 23:07:58

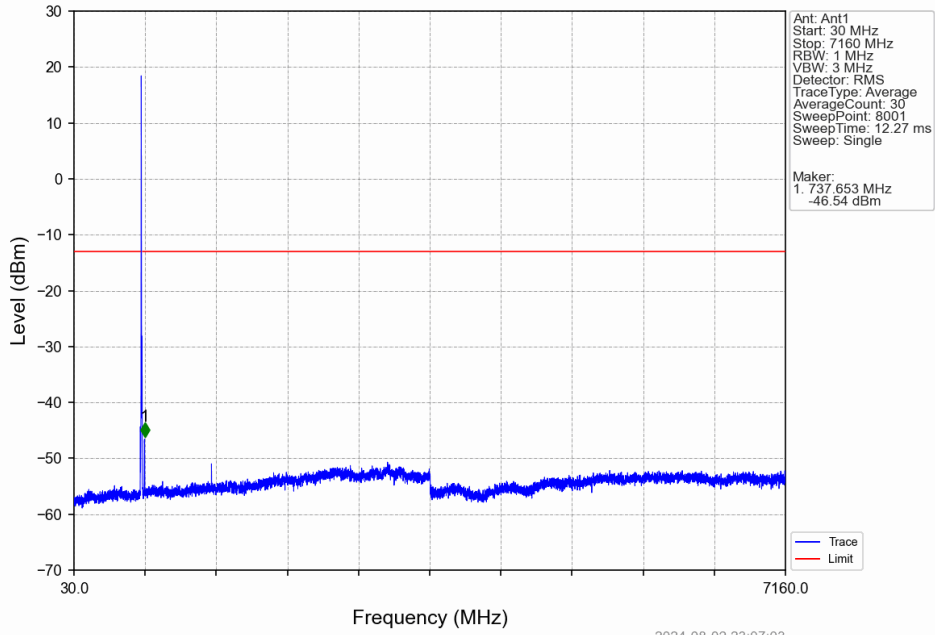
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	709	0.1	CHP	1	703.840	-19.34	-13	Pass
709	704	0.1	CHP	2	703.900	-24.08	-13	Pass
704	704	0.03	/	3	703.990	-18.74	-13	Pass
704	709	0.03	/	/	/	/	/	/

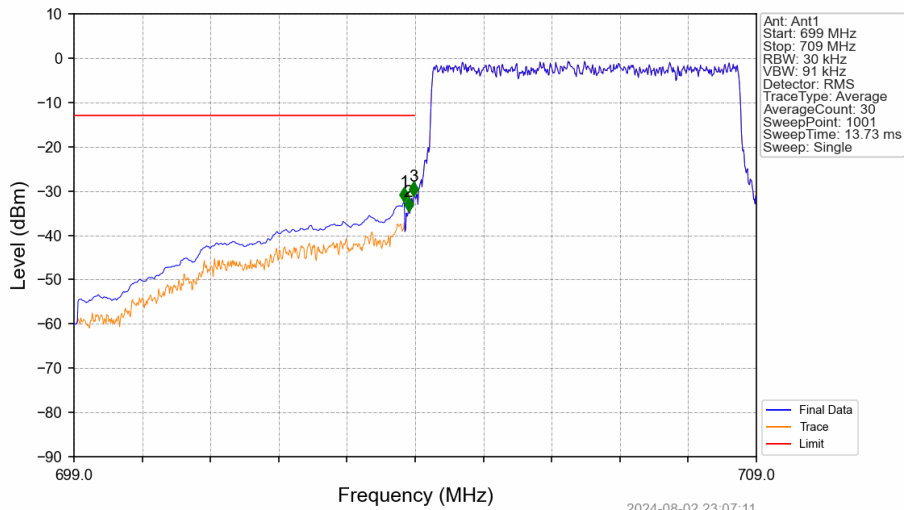
2024-08-02 23:06:54

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



2024-08-02 23:07:03

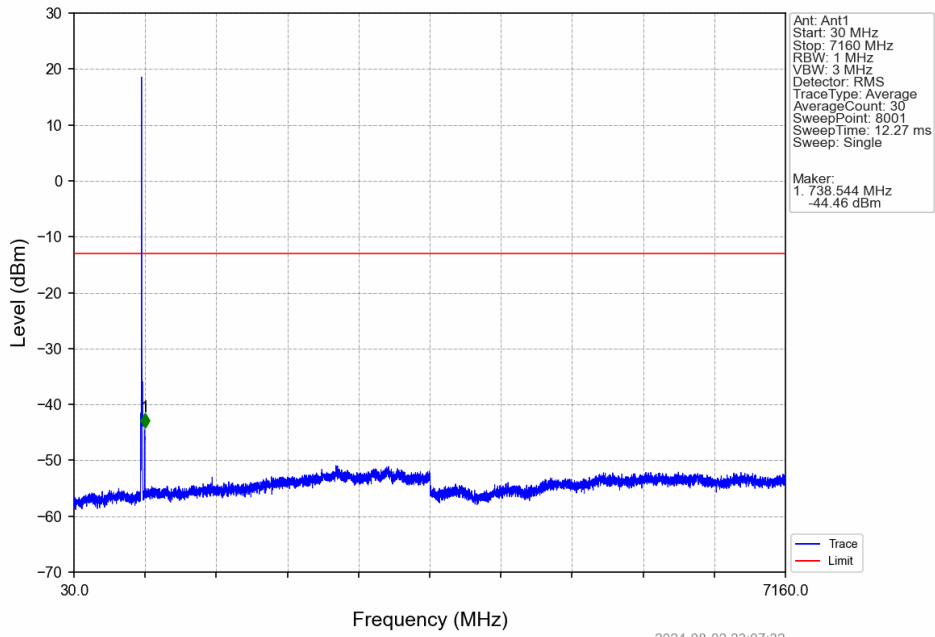
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



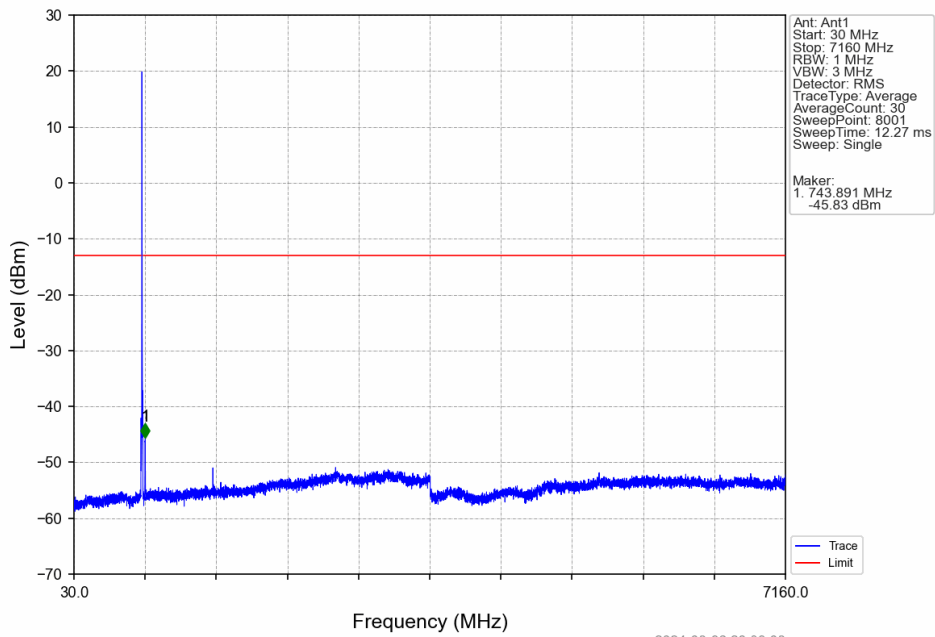
2024-08-02 23:07:11

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	709	0.1	CHP	1	703.840	-32.41	-13	Pass
709	704	0.1	CHP	2	703.900	-34.51	-13	Pass
704	704	0.03	/	3	703.980	-31.14	-13	Pass
704	709	0.03	/	/	/	/	/	/

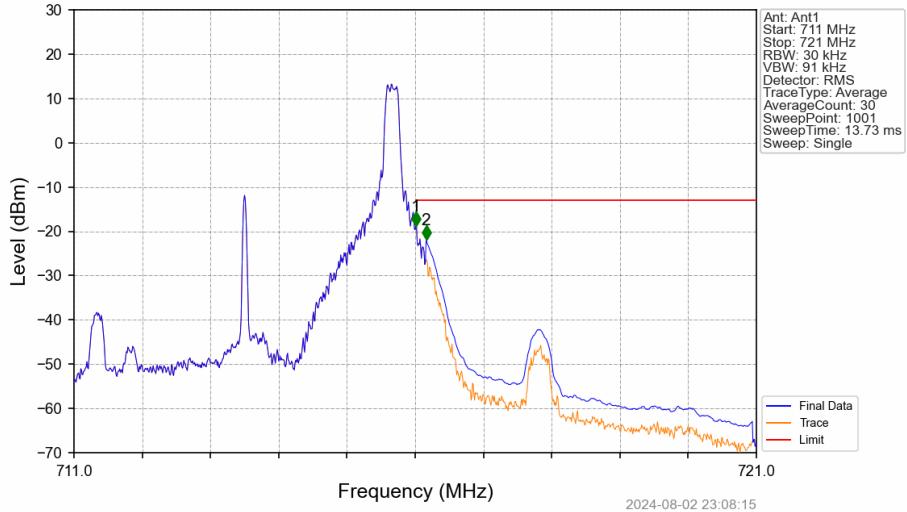
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



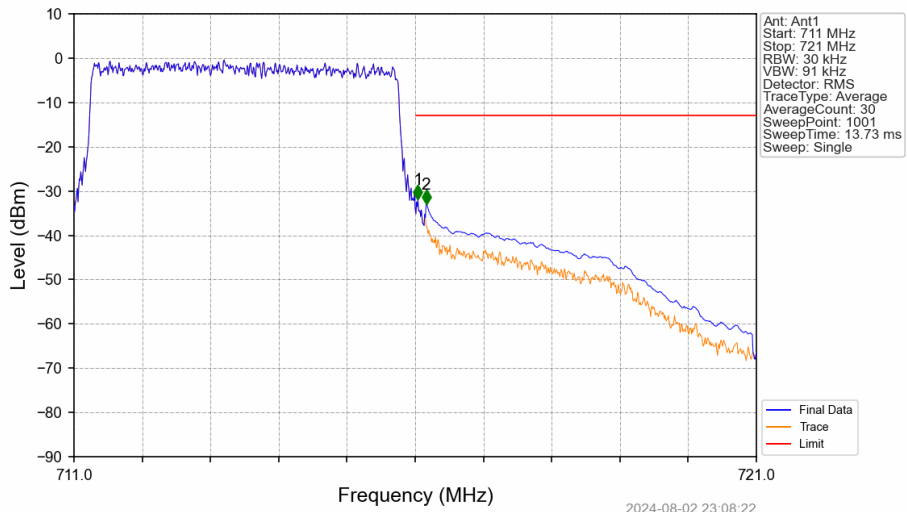
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



2024-08-02 23:08:15

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-18.71	-13	Pass
716.1	721	0.1	CHP	2	716.160	-21.84	-13	Pass

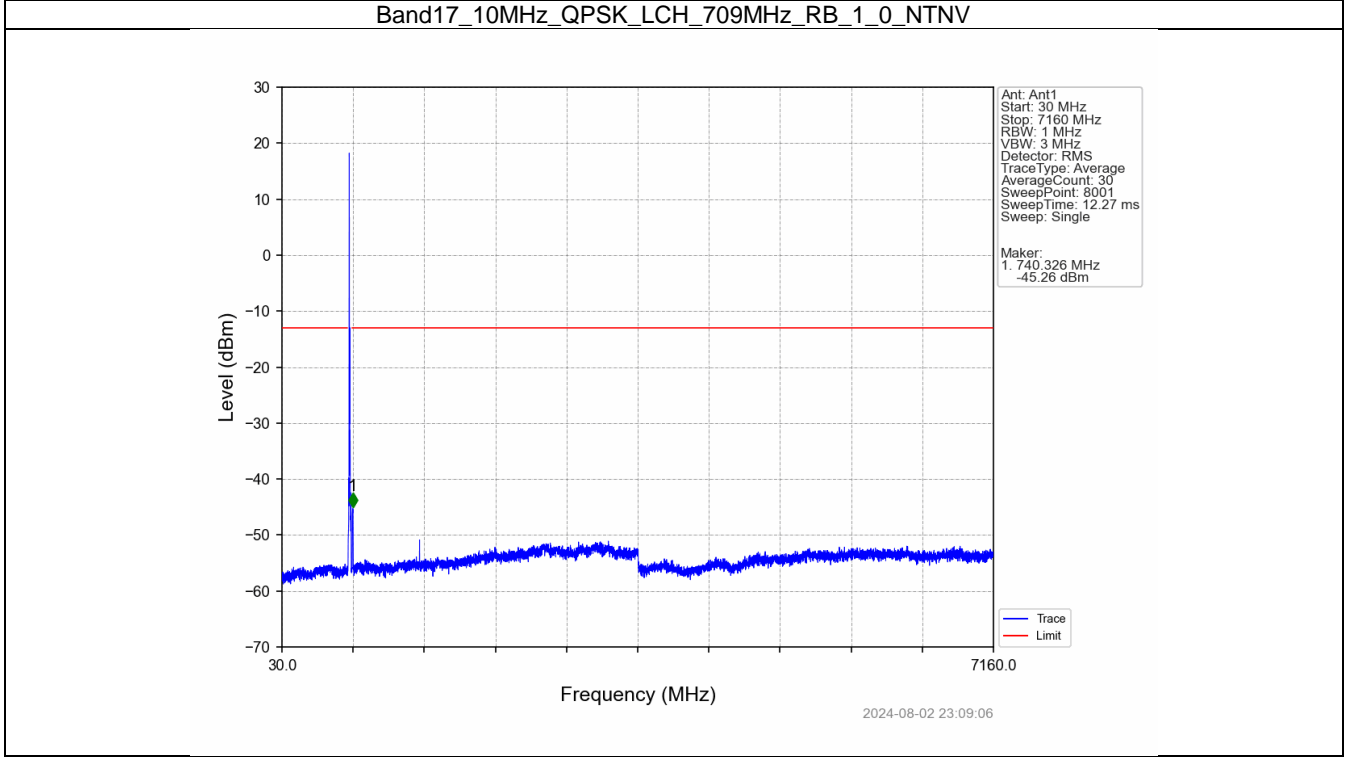
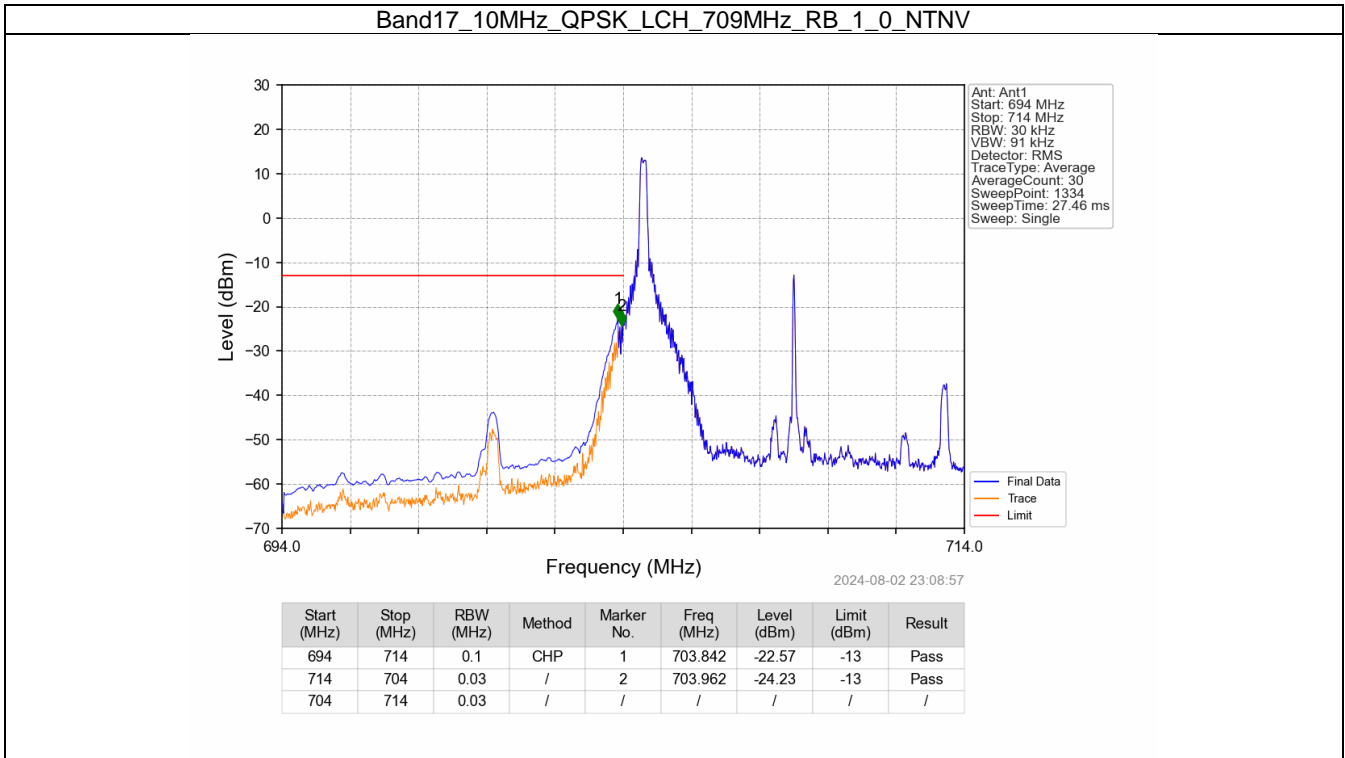
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



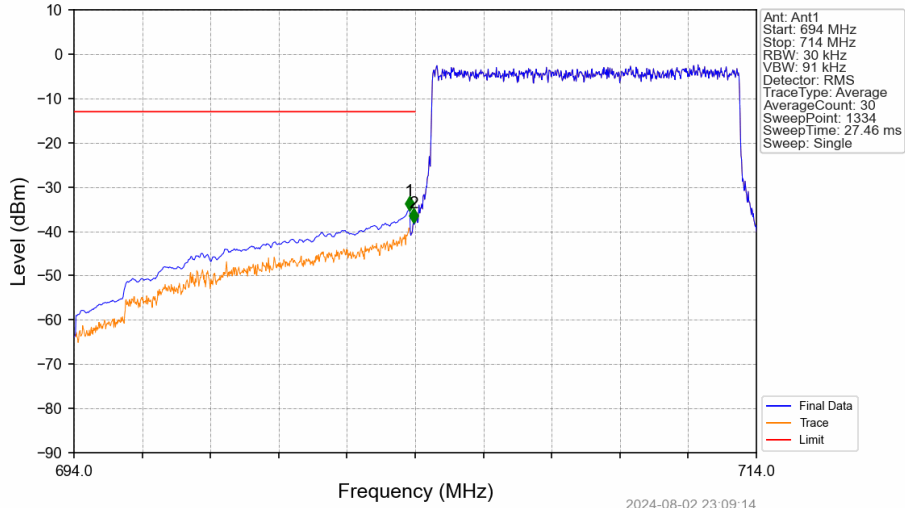
2024-08-02 23:08:22

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-31.86	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.01	-13	Pass

6.2.2 B17_10MHz



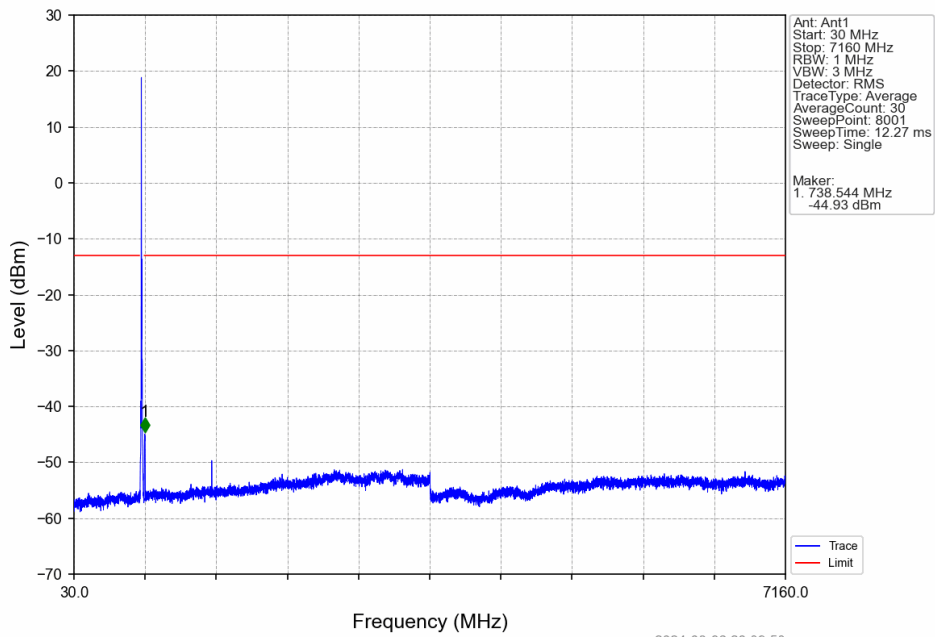
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



2024-08-02 23:09:14

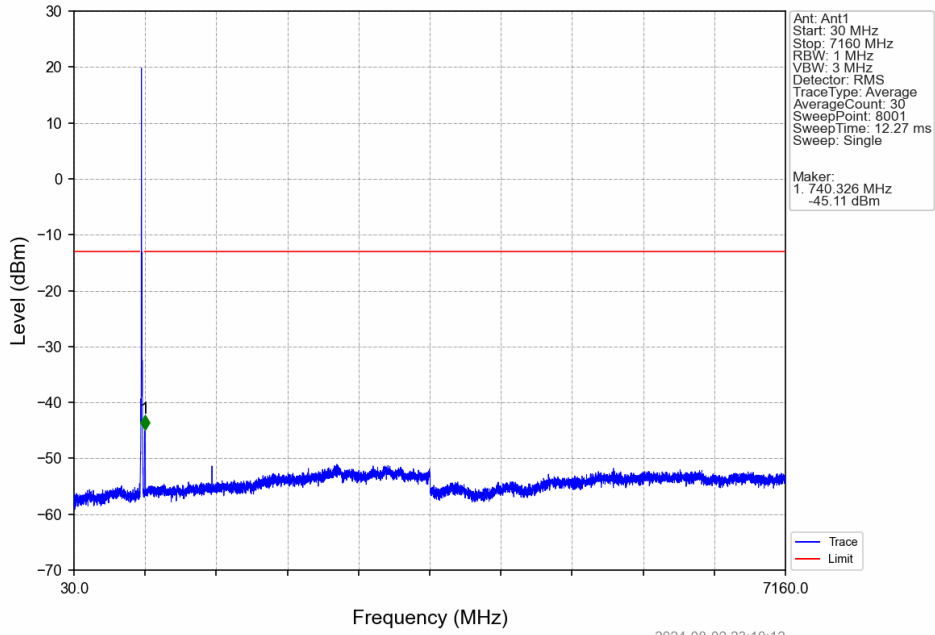
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	714	0.1	CHP	1	703.827	-35.29	-13	Pass
714	704	0.03	/	2	703.947	-38.05	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

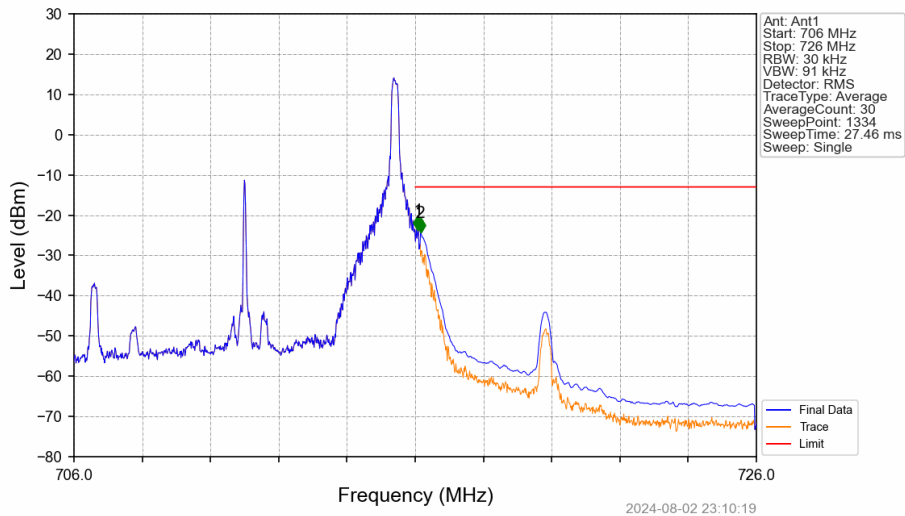


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Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

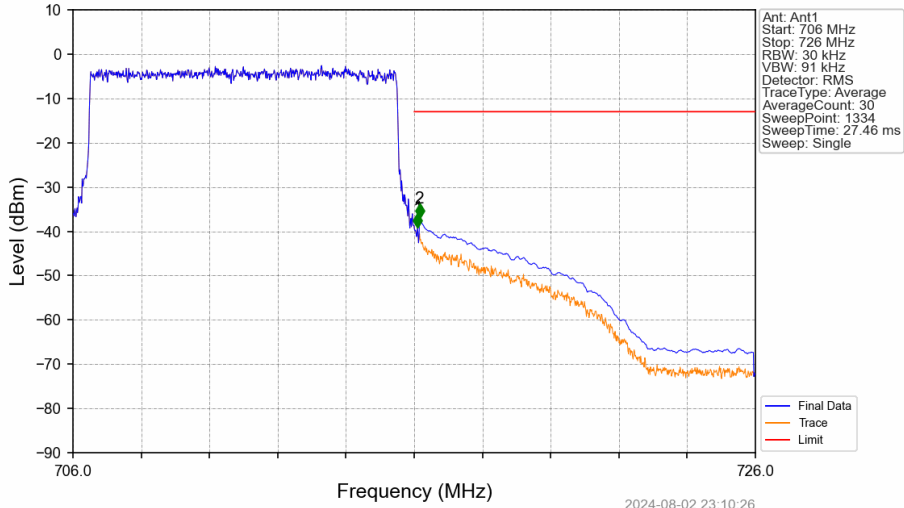


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.083	-23.55	-13	Pass
716.1	726	0.1	CHP	2	716.158	-24.25	-13	Pass

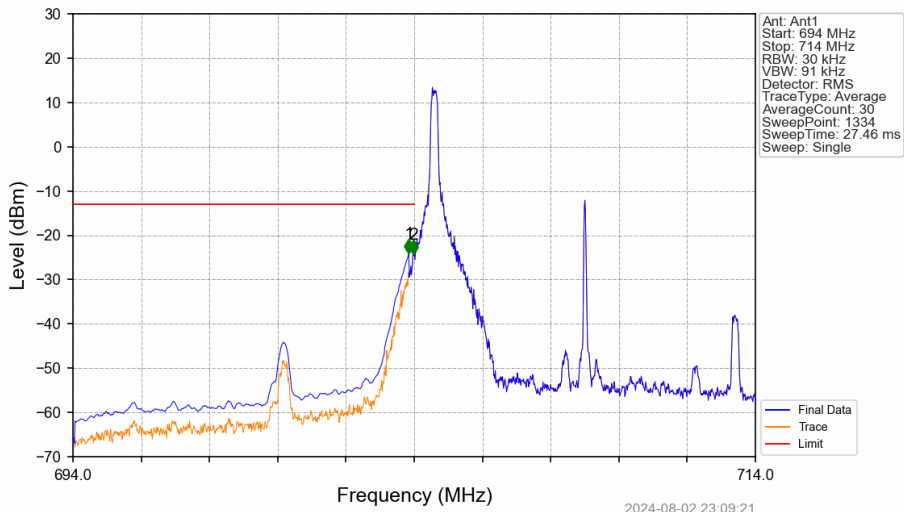
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.098	-39.08	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.99	-13	Pass

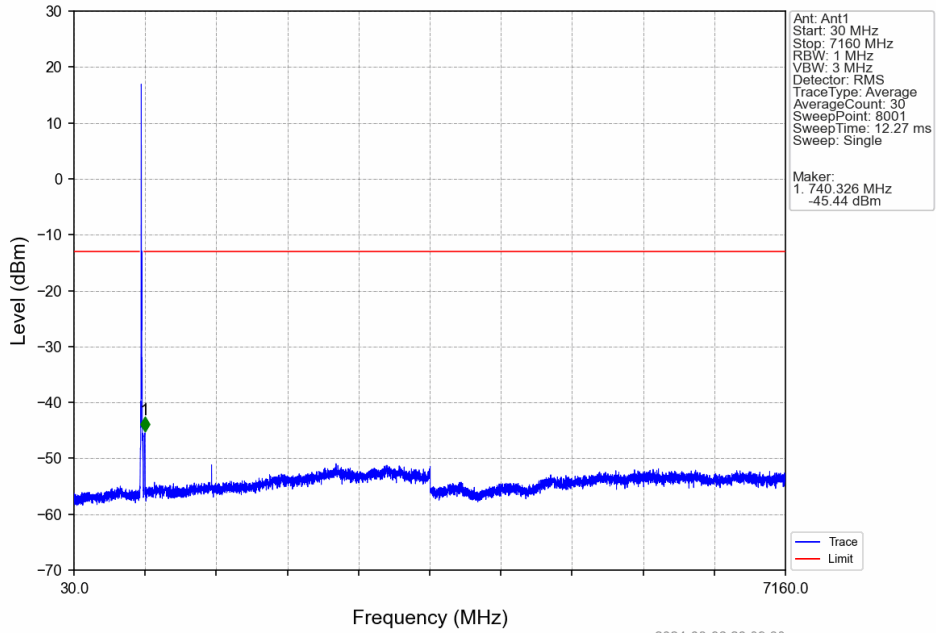
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



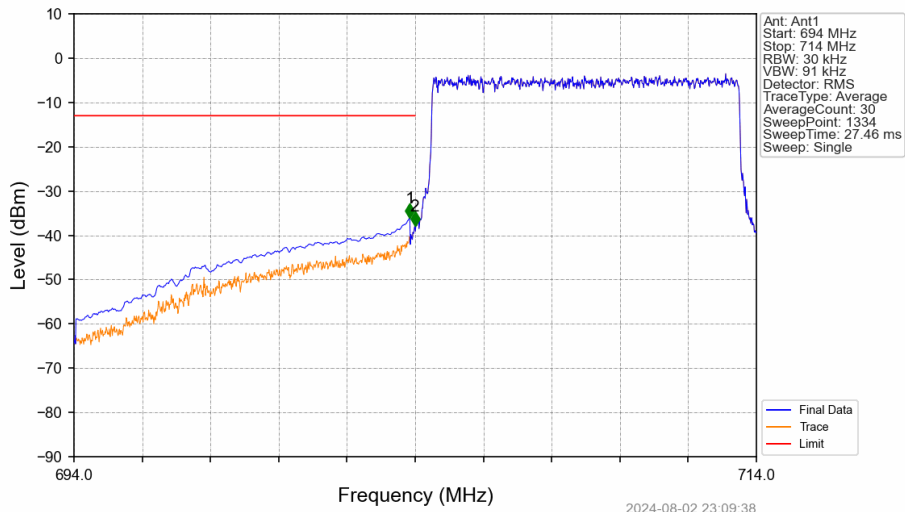
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	714	0.1	CHP	1	703.842	-24.08	-13	Pass
714	704	0.03	/	2	703.977	-24.14	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

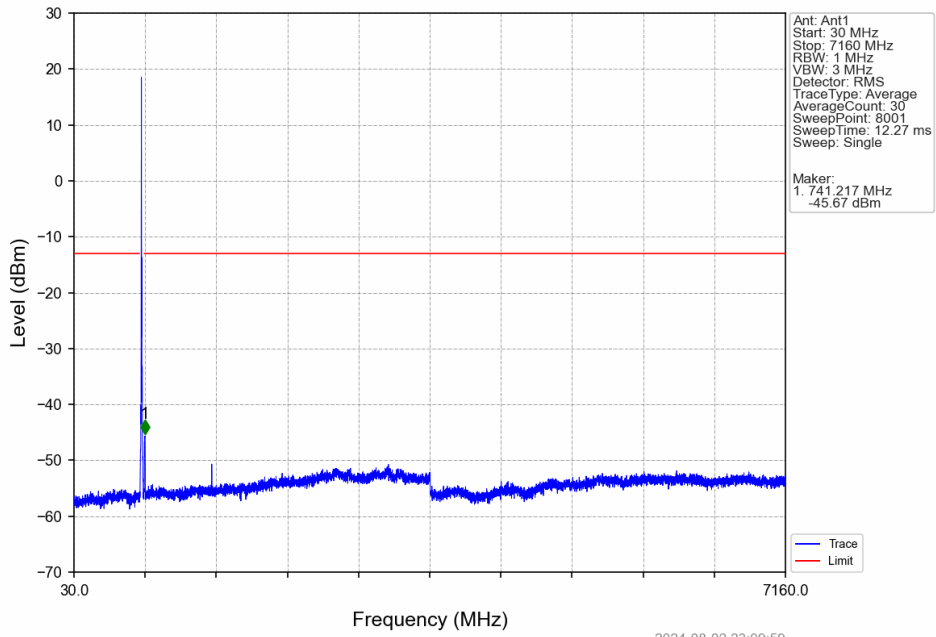


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

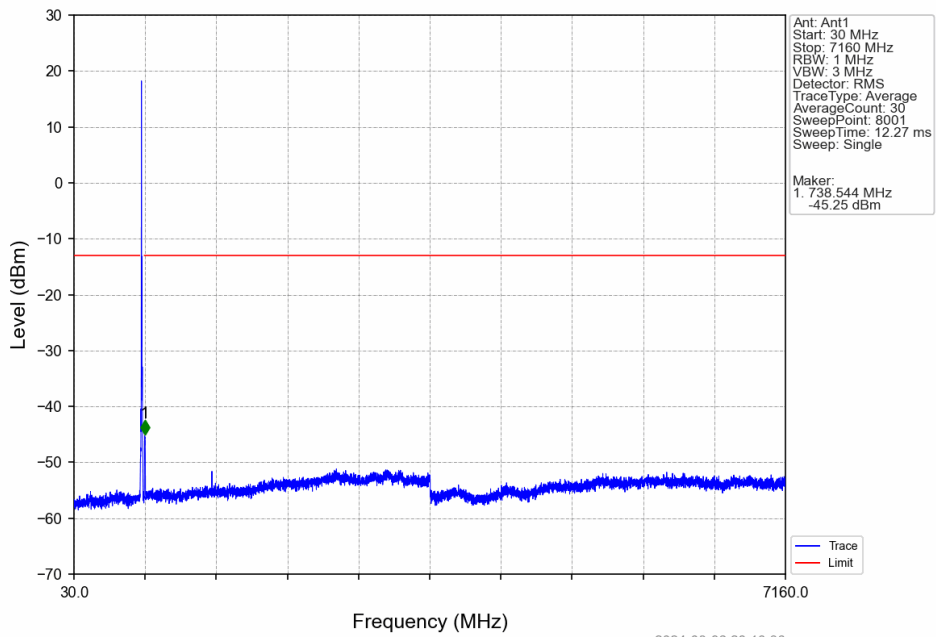


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	714	0.1	CHP	1	703.842	-36.03	-13	Pass
714	704	0.03	/	2	703.992	-37.83	-13	Pass
704	714	0.03	/	/	/	/	/	/

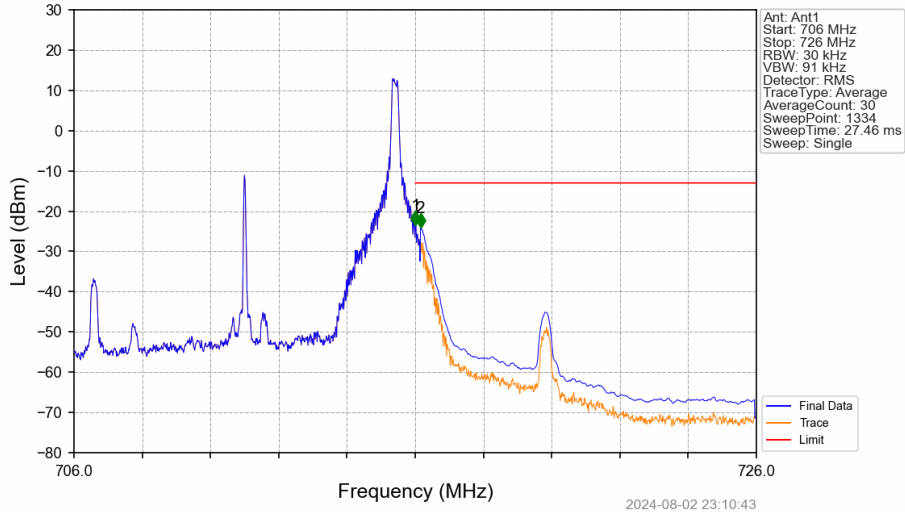
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



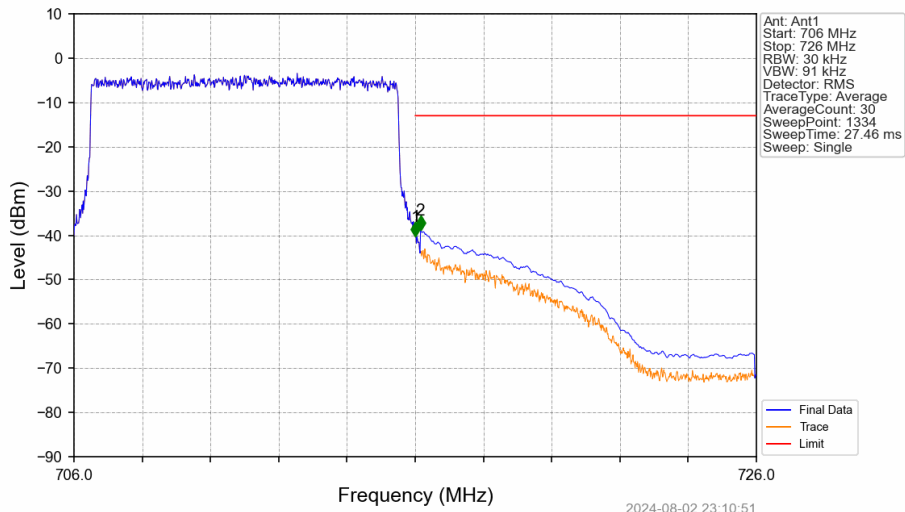
Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



2024-08-02 23:10:43

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-23.43	-13	Pass
716.1	726	0.1	CHP	2	716.158	-23.96	-13	Pass

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-40.21	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.82	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.1563	0.0121	ppm	4M58G7D	27H	21.94
17	5	706.5	713.5	0.1321	0.0142	ppm	4M58W7D	27H	21.21
17	10	709	711	0.1633	0.0144	ppm	9M09G7D	27H	22.13
17	10	709	711	0.1455	0.0133	ppm	9M09W7D	27H	21.63

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.0625	0.0121	ppm	4M58G7D	27H	17.96
17	5	706.5	713.5	0.0528	0.0142	ppm	4M58W7D	27H	17.23
17	10	709	711	0.0653	0.0144	ppm	9M09G7D	27H	18.15
17	10	709	711	0.0582	0.0133	ppm	9M09W7D	27H	17.65