

1. Effective (Isotropic) Radiated Power Output Data

1.1 B17_5MHz_ERP

1.1.1 Test Result

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	21.59	-1.65	17.79	<=34.77	Pass		
			13	22.24	-1.65	18.44	<=34.77	Pass		
			24	22.99	-1.65	19.19	<=34.77	Pass		
		12	0	21.64	-1.65	17.84	<=34.77	Pass		
			6	22.01	-1.65	18.21	<=34.77	Pass		
			13	22.47	-1.65	18.67	<=34.77	Pass		
		25	0	22.05	-1.65	18.25	<=34.77	Pass		
		710	1	0	22.61	-1.65	18.81	<=34.77	Pass	
				13	22.86	-1.65	19.06	<=34.77	Pass	
	24			21.34	-1.65	17.54	<=34.77	Pass		
	12		0	22.81	-1.65	19.01	<=34.77	Pass		
			6	22.77	-1.65	18.97	<=34.77	Pass		
			13	22.02	-1.65	18.22	<=34.77	Pass		
	25		0	22.46	-1.65	18.66	<=34.77	Pass		
	713.5		1	0	21.99	-1.65	18.19	<=34.77	Pass	
				13	20.58	-1.65	16.78	<=34.77	Pass	
		24		20.49	-1.65	16.69	<=34.77	Pass		
		12	0	21.19	-1.65	17.39	<=34.77	Pass		
			6	20.64	-1.65	16.84	<=34.77	Pass		
			13	20.42	-1.65	16.62	<=34.77	Pass		
		25	0	20.78	-1.65	16.98	<=34.77	Pass		
		16QAM	706.5	1	0	21.28	-1.65	17.48	<=34.77	Pass
					13	22.12	-1.65	18.32	<=34.77	Pass
	24				22.93	-1.65	19.13	<=34.77	Pass	
12	0			21.51	-1.65	17.71	<=34.77	Pass		
	6			21.90	-1.65	18.10	<=34.77	Pass		
	13			22.18	-1.65	18.38	<=34.77	Pass		
25	0			21.88	-1.65	18.08	<=34.77	Pass		
710	1			0	22.67	-1.65	18.87	<=34.77	Pass	
				13	22.96	-1.65	19.16	<=34.77	Pass	
			24	21.46	-1.65	17.66	<=34.77	Pass		
	12		0	22.09	-1.65	18.29	<=34.77	Pass		
			6	22.00	-1.65	18.20	<=34.77	Pass		
			13	21.88	-1.65	18.08	<=34.77	Pass		
	25		0	21.92	-1.65	18.12	<=34.77	Pass		
	713.5		1	0	21.97	-1.65	18.17	<=34.77	Pass	
				13	20.65	-1.65	16.85	<=34.77	Pass	
24				20.61	-1.65	16.81	<=34.77	Pass		
12			0	21.11	-1.65	17.31	<=34.77	Pass		
			6	20.56	-1.65	16.76	<=34.77	Pass		
			13	20.34	-1.65	16.54	<=34.77	Pass		
25			0	20.70	-1.65	16.90	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B17_10MHz_ERP

1.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	709	1	0	21.56	-1.65	17.76	<=34.77	Pass		
			25	23.09	-1.65	19.29	<=34.77	Pass		
			49	20.73	-1.65	16.93	<=34.77	Pass		
		25	0	22.20	-1.65	18.40	<=34.77	Pass		
			13	22.66	-1.65	18.86	<=34.77	Pass		
			25	22.03	-1.65	18.23	<=34.77	Pass		
		50	0	22.08	-1.65	18.28	<=34.77	Pass		
		710	1	0	21.72	-1.65	17.92	<=34.77	Pass	
				25	22.72	-1.65	18.92	<=34.77	Pass	
	49			20.44	-1.65	16.64	<=34.77	Pass		
	25		0	22.39	-1.65	18.59	<=34.77	Pass		
			13	22.39	-1.65	18.59	<=34.77	Pass		
			25	21.34	-1.65	17.54	<=34.77	Pass		
	50		0	21.88	-1.65	18.08	<=34.77	Pass		
	711		1	0	21.98	-1.65	18.18	<=34.77	Pass	
				25	22.01	-1.65	18.21	<=34.77	Pass	
		49		20.58	-1.65	16.78	<=34.77	Pass		
		25	0	22.53	-1.65	18.73	<=34.77	Pass		
			13	21.99	-1.65	18.19	<=34.77	Pass		
			25	20.86	-1.65	17.06	<=34.77	Pass		
		50	0	21.77	-1.65	17.97	<=34.77	Pass		
		16QAM	709	1	0	21.40	-1.65	17.60	<=34.77	Pass
					25	23.02	-1.65	19.22	<=34.77	Pass
	49				20.73	-1.65	16.93	<=34.77	Pass	
25	0			21.71	-1.65	17.91	<=34.77	Pass		
	13			21.99	-1.65	18.19	<=34.77	Pass		
	25			21.80	-1.65	18.00	<=34.77	Pass		
50	0			21.68	-1.65	17.88	<=34.77	Pass		
710	1			0	21.59	-1.65	17.79	<=34.77	Pass	
				25	22.63	-1.65	18.83	<=34.77	Pass	
			49	20.36	-1.65	16.56	<=34.77	Pass		
	25		0	21.81	-1.65	18.01	<=34.77	Pass		
			13	22.10	-1.65	18.30	<=34.77	Pass		
			25	21.33	-1.65	17.53	<=34.77	Pass		
	50		0	21.84	-1.65	18.04	<=34.77	Pass		
	711		1	0	22.01	-1.65	18.21	<=34.77	Pass	
				25	22.10	-1.65	18.30	<=34.77	Pass	
49				20.63	-1.65	16.83	<=34.77	Pass		
25			0	21.99	-1.65	18.19	<=34.77	Pass		
			13	21.97	-1.65	18.17	<=34.77	Pass		
			25	20.84	-1.65	17.04	<=34.77	Pass		
50			0	21.70	-1.65	17.90	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B17_5MHz

2.1.1 Test Result

Band: 17 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	706.5	25	0	20	3.27	-8.068	-0.0114	-2.5 to 2.5	Pass
					3.85	-4.277	-0.0061	-2.5 to 2.5	Pass
					4.43	-5.851	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-8.383	-0.0119	-2.5 to 2.5	Pass
				-20	3.85	-5.836	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-5.021	-0.0071	-2.5 to 2.5	Pass
				0	3.85	-6.895	-0.0098	-2.5 to 2.5	Pass
				10	3.85	-5.279	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
	40	3.85	-3.705	-0.0052	-2.5 to 2.5	Pass			
	50	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass			
	710	25	0	20	3.27	-5.937	-0.0084	-2.5 to 2.5	Pass
					3.85	-7.124	-0.0100	-2.5 to 2.5	Pass
					4.43	-5.021	-0.0071	-2.5 to 2.5	Pass
				-30	3.85	-7.167	-0.0101	-2.5 to 2.5	Pass
				-20	3.85	-7.138	-0.0101	-2.5 to 2.5	Pass
				-10	3.85	-4.506	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-5.722	-0.0081	-2.5 to 2.5	Pass
				30	3.85	-7.067	-0.0100	-2.5 to 2.5	Pass
	40	3.85	-5.851	-0.0082	-2.5 to 2.5	Pass			
	50	3.85	-7.167	-0.0101	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.27	-6.838	-0.0096	-2.5 to 2.5	Pass
					3.85	-8.311	-0.0116	-2.5 to 2.5	Pass
					4.43	-2.761	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	1.144	0.0016	-2.5 to 2.5	Pass
				-20	3.85	-5.035	-0.0071	-2.5 to 2.5	Pass
-10				3.85	-10.099	-0.0142	-2.5 to 2.5	Pass	
0				3.85	-7.124	-0.0100	-2.5 to 2.5	Pass	
10				3.85	-4.821	-0.0068	-2.5 to 2.5	Pass	
30				3.85	-5.350	-0.0075	-2.5 to 2.5	Pass	
40	3.85	-3.734	-0.0052	-2.5 to 2.5	Pass				
50	3.85	-4.020	-0.0056	-2.5 to 2.5	Pass				
16QAM	706.5	25	0	20	3.27	-5.651	-0.0080	-2.5 to 2.5	Pass
					3.85	-5.221	-0.0074	-2.5 to 2.5	Pass
					4.43	-4.578	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-3.977	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-5.522	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-5.937	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
				10	3.85	-4.449	-0.0063	-2.5 to 2.5	Pass
				30	3.85	-6.266	-0.0089	-2.5 to 2.5	Pass
	40	3.85	-6.795	-0.0096	-2.5 to 2.5	Pass			
	50	3.85	-5.035	-0.0071	-2.5 to 2.5	Pass			
	710	25	0	20	3.27	-4.549	-0.0064	-2.5 to 2.5	Pass
					3.85	-5.836	-0.0082	-2.5 to 2.5	Pass
					4.43	-3.819	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-6.022	-0.0085	-2.5 to 2.5	Pass
				-20	3.85	-4.520	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-7.868	-0.0111	-2.5 to 2.5	Pass
				0	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass
10				3.85	-3.204	-0.0045	-2.5 to 2.5	Pass	
30				3.85	-6.781	-0.0096	-2.5 to 2.5	Pass	
40	3.85	-5.436	-0.0077	-2.5 to 2.5	Pass				

	713.5	25	0	50	3.85	-3.333	-0.0047	-2.5 to 2.5	Pass
				20	3.27	-4.420	-0.0062	-2.5 to 2.5	Pass
					3.85	-6.309	-0.0088	-2.5 to 2.5	Pass
					4.43	-0.186	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-5.550	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-3.347	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-9.513	-0.0133	-2.5 to 2.5	Pass
				0	3.85	-5.522	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-4.864	-0.0068	-2.5 to 2.5	Pass
				30	3.85	-10.028	-0.0141	-2.5 to 2.5	Pass
				40	3.85	-6.323	-0.0089	-2.5 to 2.5	Pass
				50	3.85	-7.095	-0.0099	-2.5 to 2.5	Pass

2.2 B17_10MHz

2.2.1 Test Result

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	3.27	-4.020	-0.0057	-2.5 to 2.5	Pass
					3.85	-6.266	-0.0088	-2.5 to 2.5	Pass
					4.43	-7.539	-0.0106	-2.5 to 2.5	Pass
				-30	3.85	-5.908	-0.0083	-2.5 to 2.5	Pass
				-20	3.85	-5.007	-0.0071	-2.5 to 2.5	Pass
				-10	3.85	-5.851	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-3.605	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass
				30	3.85	-5.579	-0.0079	-2.5 to 2.5	Pass
				40	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
				50	3.85	-5.865	-0.0083	-2.5 to 2.5	Pass
				710	50	0	20	3.27	-6.094
	3.85	-5.064	-0.0071					-2.5 to 2.5	Pass
	4.43	-7.210	-0.0102					-2.5 to 2.5	Pass
	-30	3.85	-7.238				-0.0102	-2.5 to 2.5	Pass
	-20	3.85	-8.454				-0.0119	-2.5 to 2.5	Pass
	-10	3.85	-4.306				-0.0061	-2.5 to 2.5	Pass
	0	3.85	-4.864				-0.0069	-2.5 to 2.5	Pass
	10	3.85	-4.449				-0.0063	-2.5 to 2.5	Pass
	30	3.85	-6.623				-0.0093	-2.5 to 2.5	Pass
	40	3.85	-7.210				-0.0102	-2.5 to 2.5	Pass
	50	3.85	-6.108				-0.0086	-2.5 to 2.5	Pass
	711	50	0				20	3.27	-5.937
				3.85	-4.220	-0.0059		-2.5 to 2.5	Pass
				4.43	-4.849	-0.0068		-2.5 to 2.5	Pass
				-30	3.85	-6.909	-0.0097	-2.5 to 2.5	Pass
				-20	3.85	-5.479	-0.0077	-2.5 to 2.5	Pass
				-10	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-5.164	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-5.665	-0.0080	-2.5 to 2.5	Pass
30				3.85	-7.181	-0.0101	-2.5 to 2.5	Pass	
40				3.85	-3.533	-0.0050	-2.5 to 2.5	Pass	
50				3.85	-7.925	-0.0111	-2.5 to 2.5	Pass	
16QAM				709	50	0	20	3.27	-5.751
	3.85	-4.735	-0.0067					-2.5 to 2.5	Pass

					4.43	-5.636	-0.0079	-2.5 to 2.5	Pass			
				-30	3.85	-7.224	-0.0102	-2.5 to 2.5	Pass			
				-20	3.85	-8.111	-0.0114	-2.5 to 2.5	Pass			
				-10	3.85	-6.866	-0.0097	-2.5 to 2.5	Pass			
				0	3.85	-6.924	-0.0098	-2.5 to 2.5	Pass			
				10	3.85	-4.864	-0.0069	-2.5 to 2.5	Pass			
				30	3.85	-3.734	-0.0053	-2.5 to 2.5	Pass			
				40	3.85	-6.609	-0.0093	-2.5 to 2.5	Pass			
				50	3.85	-7.052	-0.0099	-2.5 to 2.5	Pass			
	710	50	0	20	3.27	-6.394	-0.0090	-2.5 to 2.5	Pass			
								3.85	-5.379	-0.0076	-2.5 to 2.5	Pass
								4.43	-5.522	-0.0078	-2.5 to 2.5	Pass
							-30	3.85	-4.020	-0.0057	-2.5 to 2.5	Pass
							-20	3.85	-5.136	-0.0072	-2.5 to 2.5	Pass
							-10	3.85	-3.362	-0.0047	-2.5 to 2.5	Pass
							0	3.85	-6.266	-0.0088	-2.5 to 2.5	Pass
							10	3.85	-6.194	-0.0087	-2.5 to 2.5	Pass
							30	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass
							40	3.85	-7.825	-0.0110	-2.5 to 2.5	Pass
				50	3.85	-4.721	-0.0066	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	-6.952	-0.0098	-2.5 to 2.5	Pass			
								3.85	-4.749	-0.0067	-2.5 to 2.5	Pass
								4.43	-3.619	-0.0051	-2.5 to 2.5	Pass
							-30	3.85	-5.307	-0.0075	-2.5 to 2.5	Pass
							-20	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
							-10	3.85	-5.250	-0.0074	-2.5 to 2.5	Pass
							0	3.85	-6.995	-0.0098	-2.5 to 2.5	Pass
							10	3.85	-6.952	-0.0098	-2.5 to 2.5	Pass
							30	3.85	-4.377	-0.0062	-2.5 to 2.5	Pass
							40	3.85	-6.609	-0.0093	-2.5 to 2.5	Pass
				50	3.85	-8.626	-0.0121	-2.5 to 2.5	Pass			

3. Modulation Characteristics

3.1 B17_5MHz

3.1.1 Test Result

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

3.1.2 Test Graph

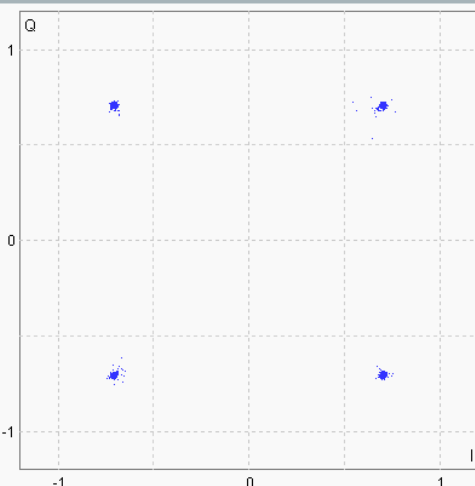
Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTV

CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 710.0 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 8 / All

IQ Constellation



Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling Run

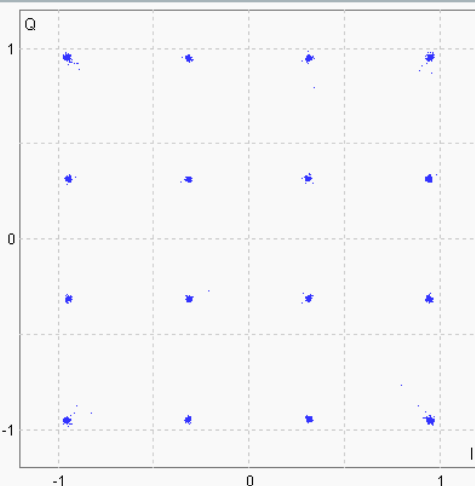
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 710.0 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 8 / 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 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

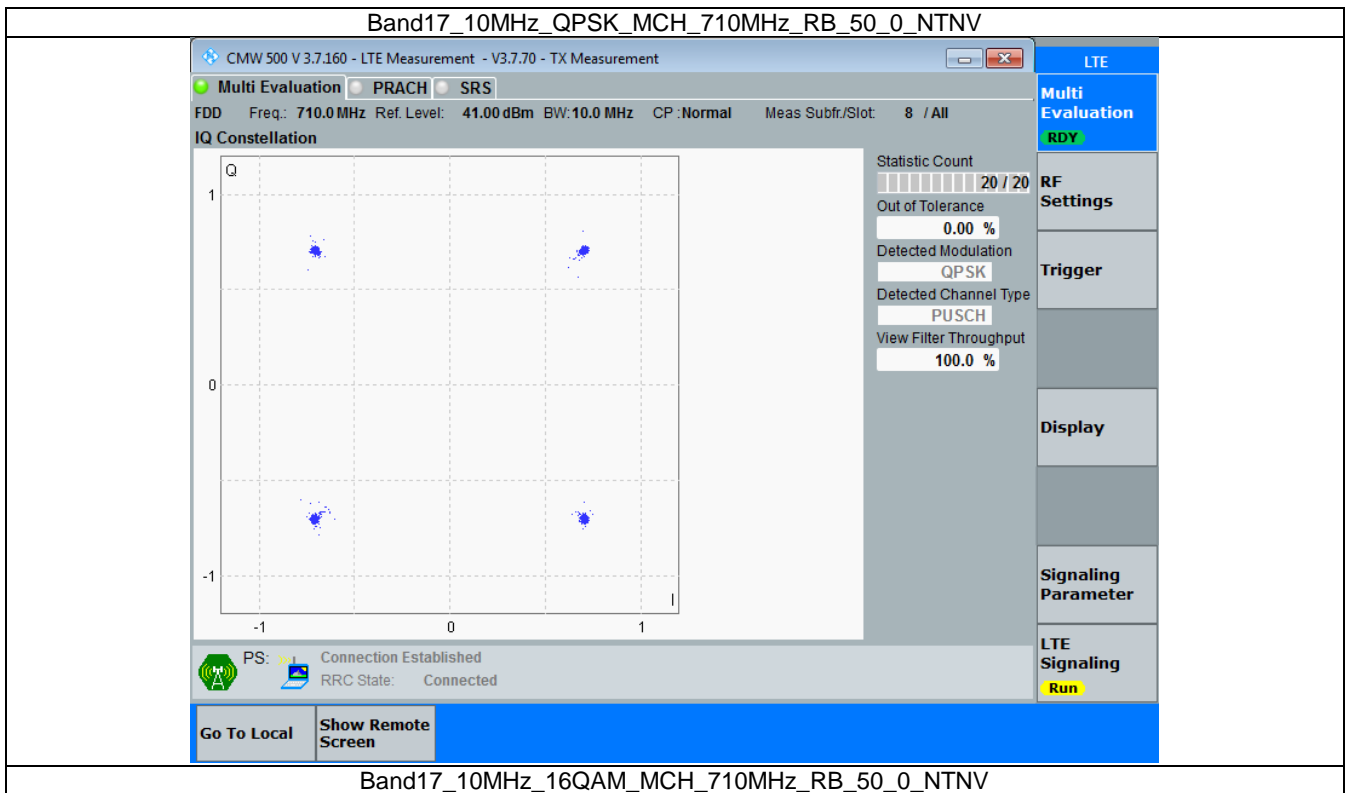
LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling Run

3.2 B17_10MHz

3.2.1 Test Result

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

3.2.2 Test Graph

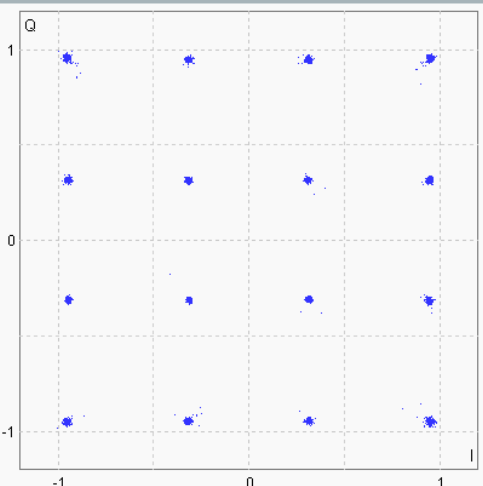


CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 710.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 8 / 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 %

PS:  Connection Established
RRC State: Connected

Go To Local Show Remote Screen

LTE

Multi Evaluation RDY

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling Run

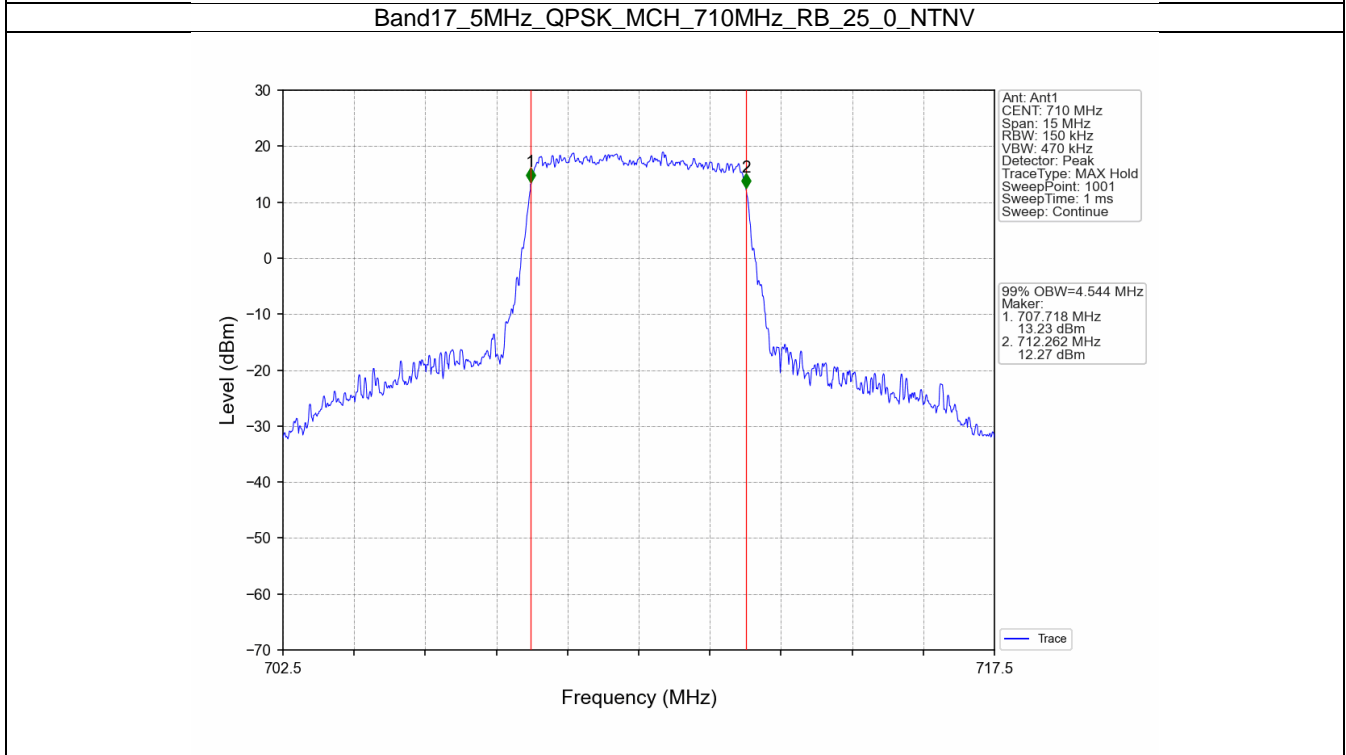
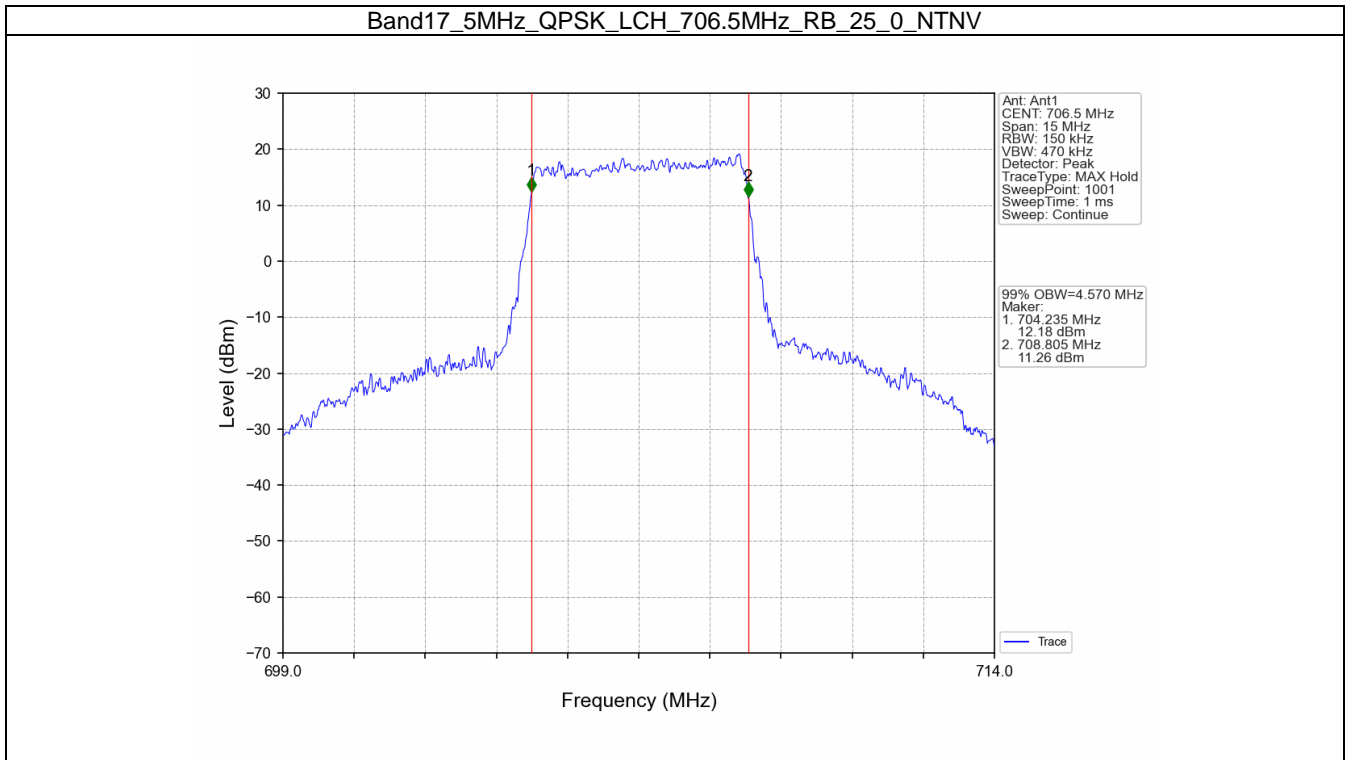
4. 99% & 26dB Bandwidth

4.1 Band17_OBW

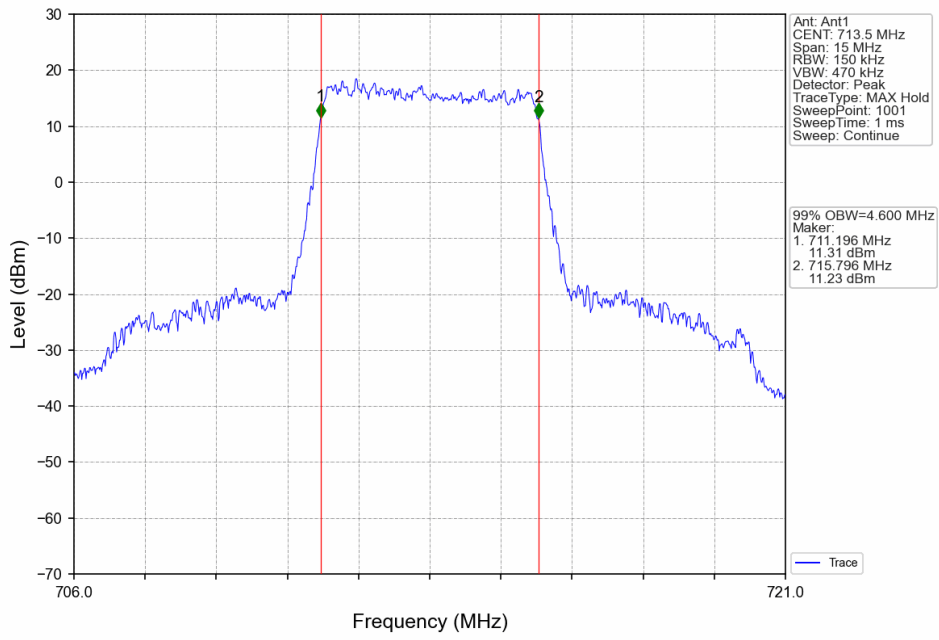
4.1.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.570	/	Pass
		710	25	0	4.544	/	Pass
		713.5	25	0	4.600	/	Pass
	16QAM	706.5	25	0	4.613	/	Pass
		710	25	0	4.541	/	Pass
		713.5	25	0	4.570	/	Pass
10	QPSK	709	50	0	9.045	/	Pass
		710	50	0	9.005	/	Pass
		711	50	0	9.076	/	Pass
	16QAM	709	50	0	9.006	/	Pass
		710	50	0	9.021	/	Pass
		711	50	0	9.042	/	Pass

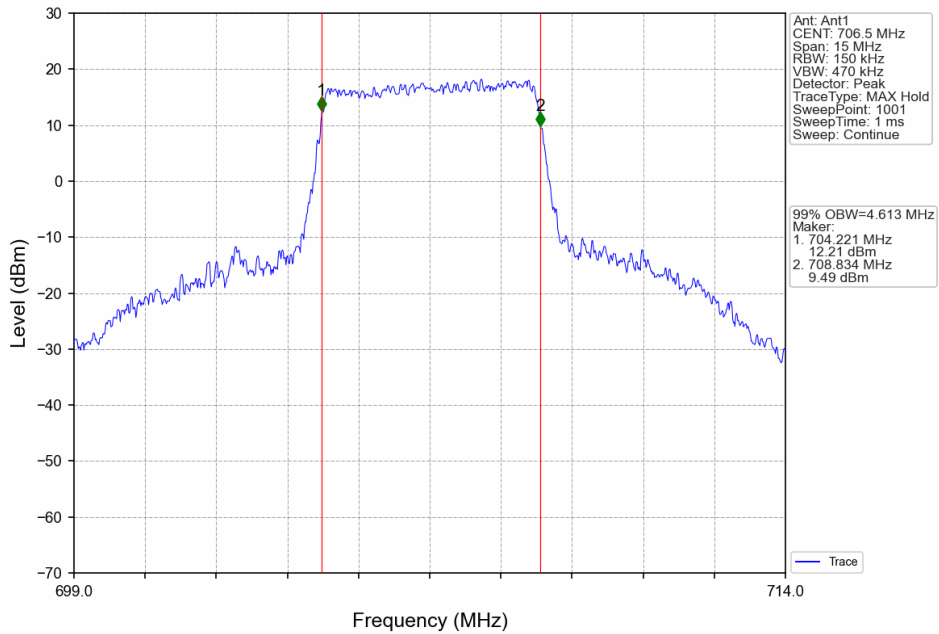
4.1.2 Test Graph



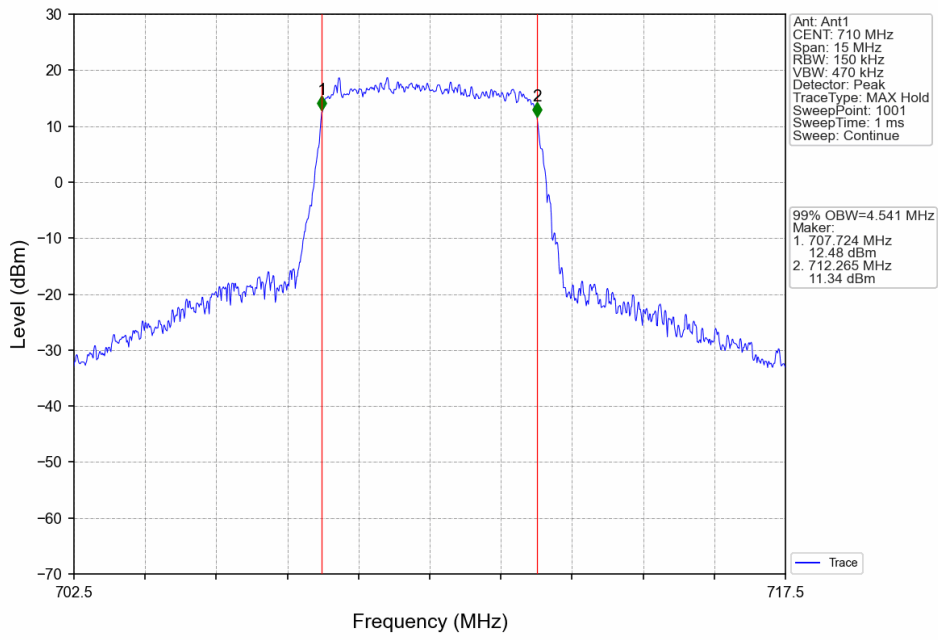
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



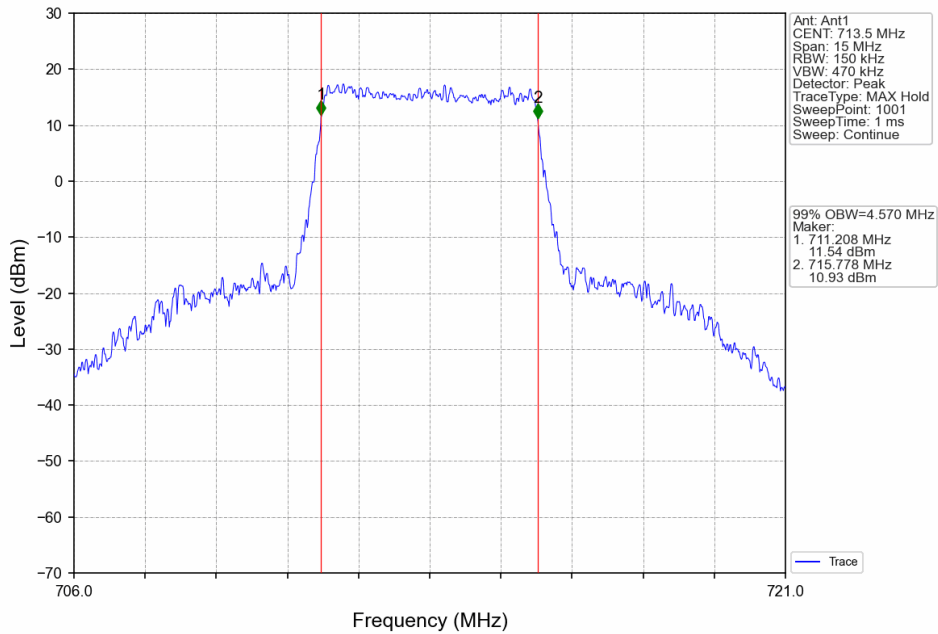
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



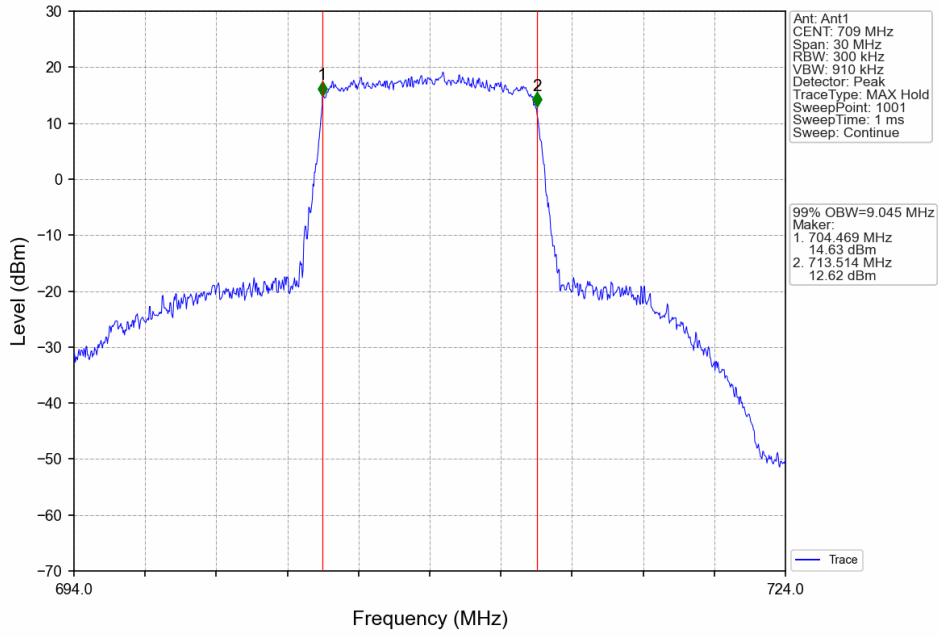
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



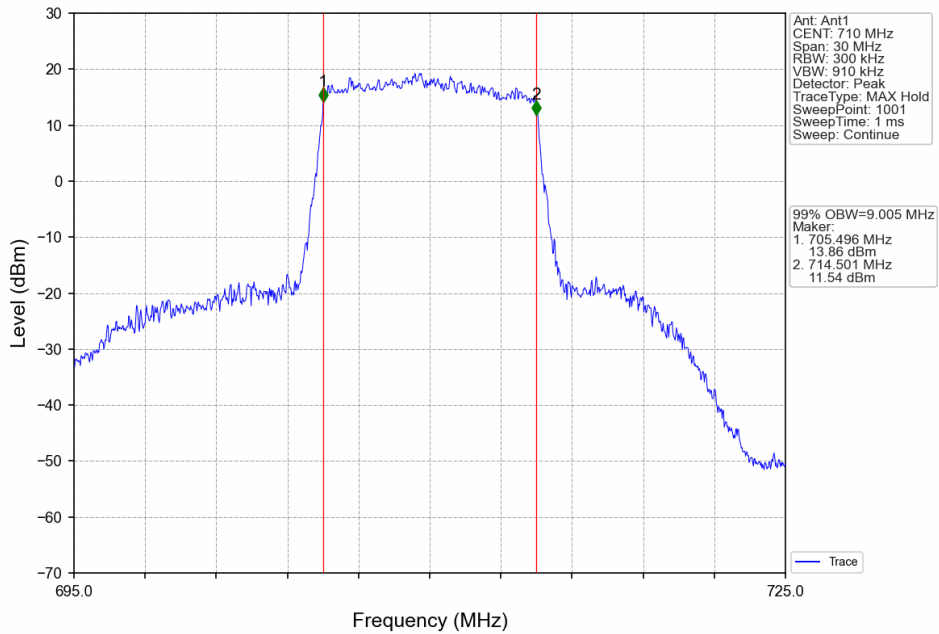
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



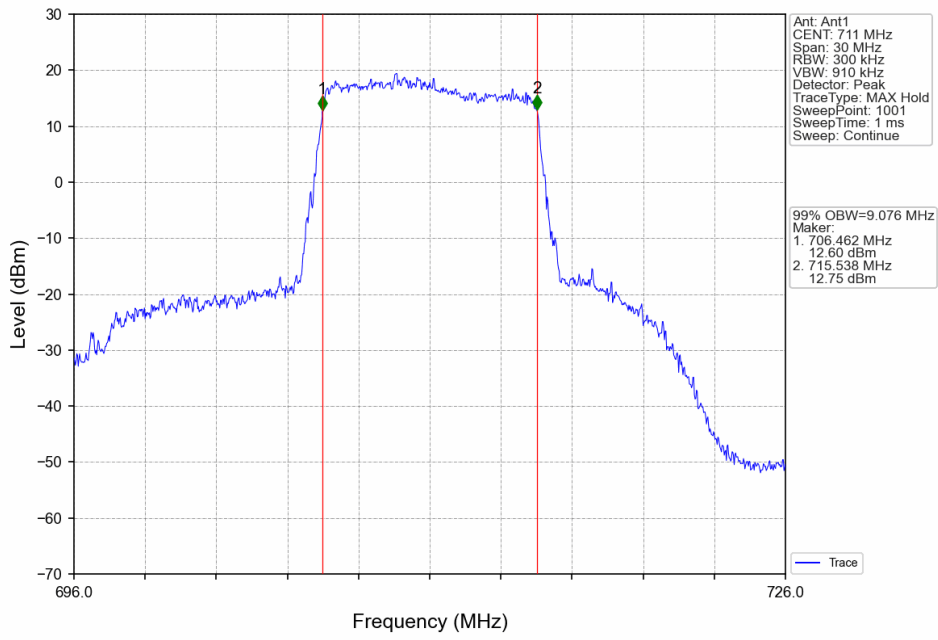
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



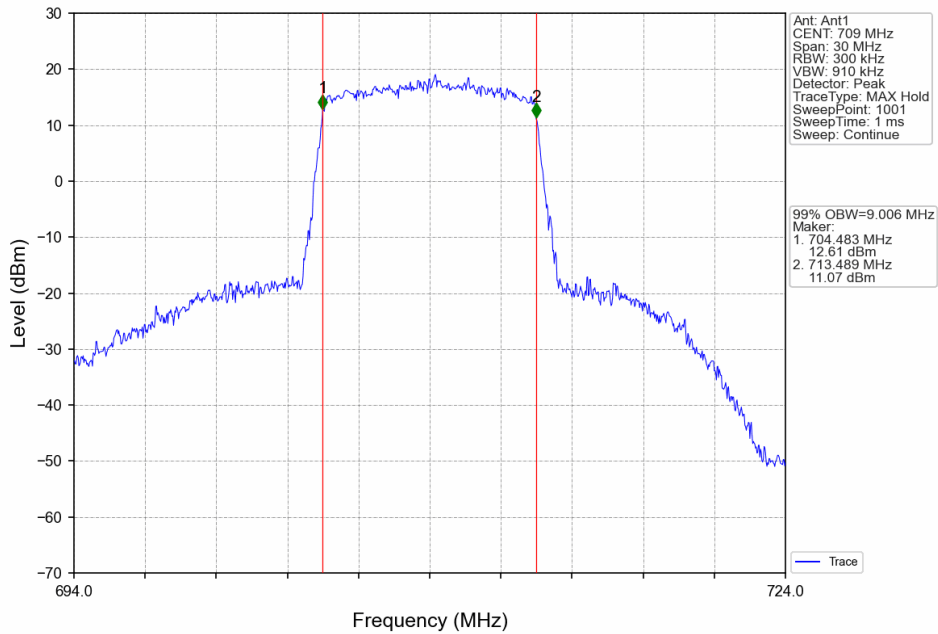
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



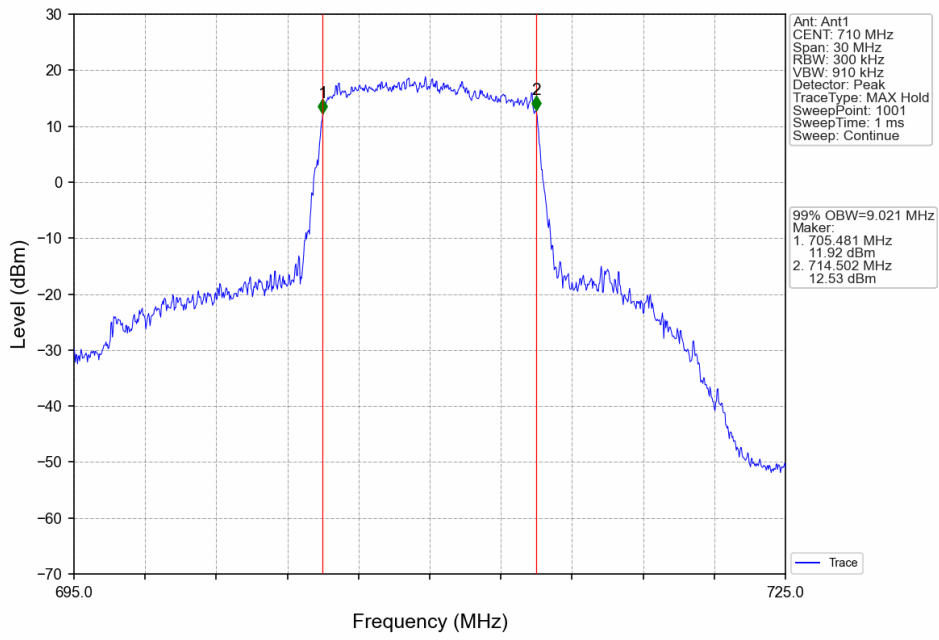
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



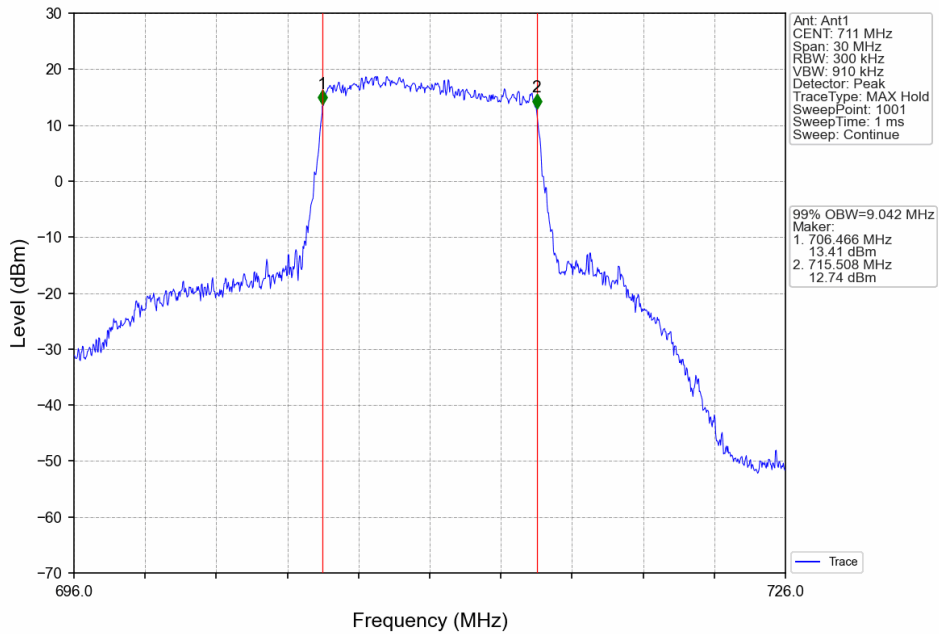
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

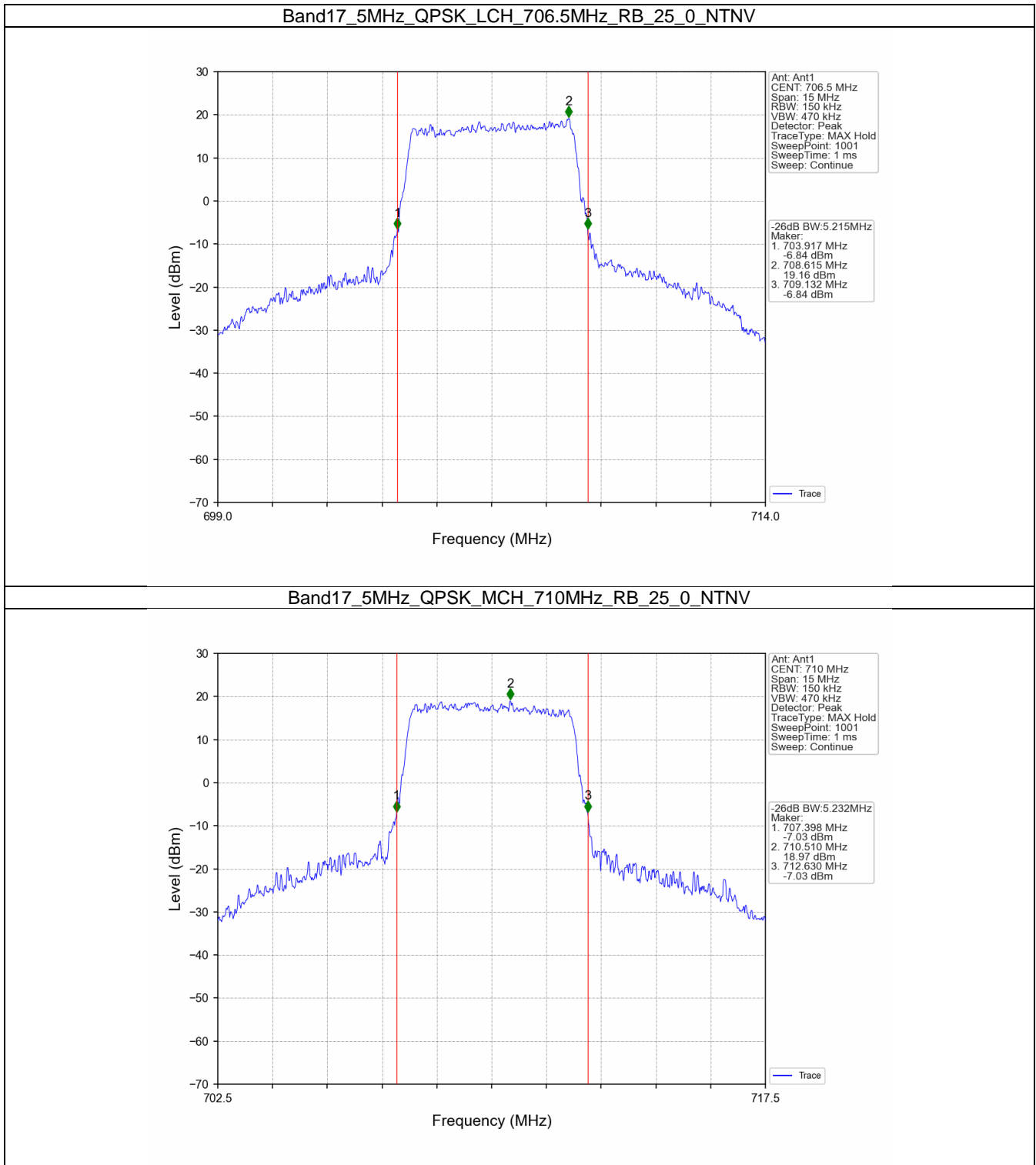


4.2 Band17_XDB

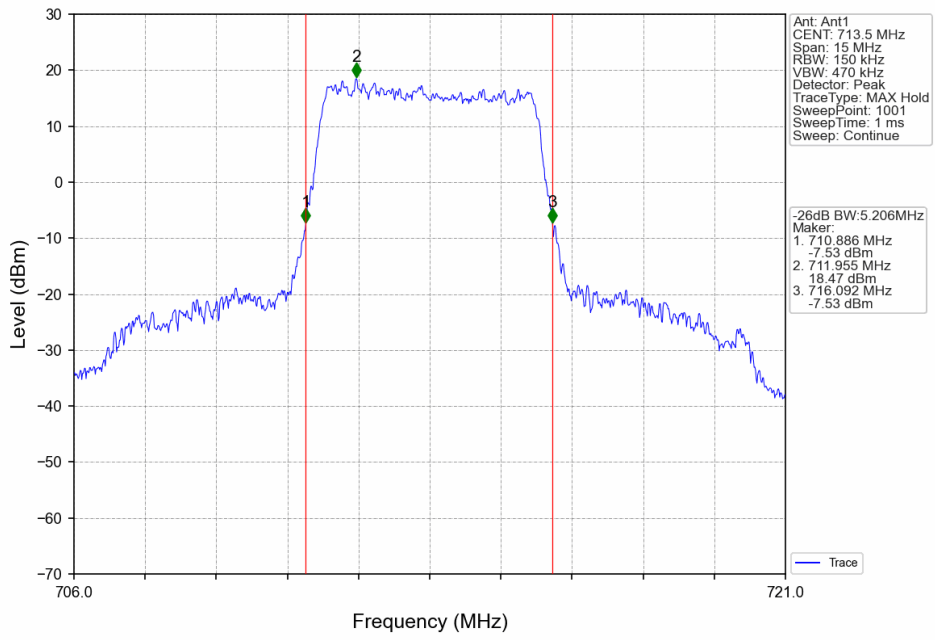
4.2.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.215	/	Pass
		710	25	0	5.232	/	Pass
		713.5	25	0	5.206	/	Pass
	16QAM	706.5	25	0	5.330	/	Pass
		710	25	0	5.178	/	Pass
		713.5	25	0	5.252	/	Pass
10	QPSK	709	50	0	10.193	/	Pass
		710	50	0	10.070	/	Pass
		711	50	0	10.218	/	Pass
	16QAM	709	50	0	10.128	/	Pass
		710	50	0	10.102	/	Pass
		711	50	0	10.148	/	Pass

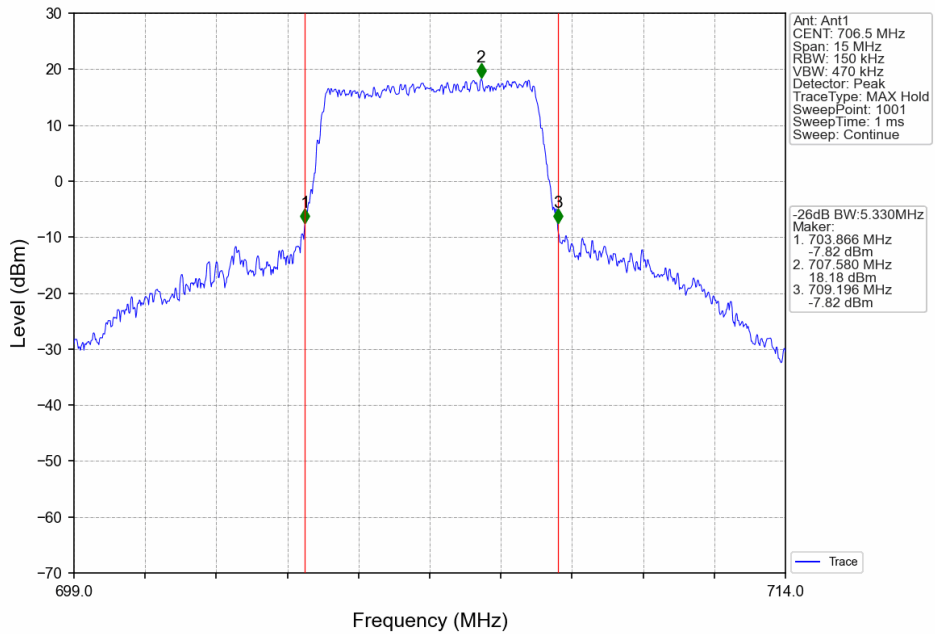
4.2.2 Test Graph



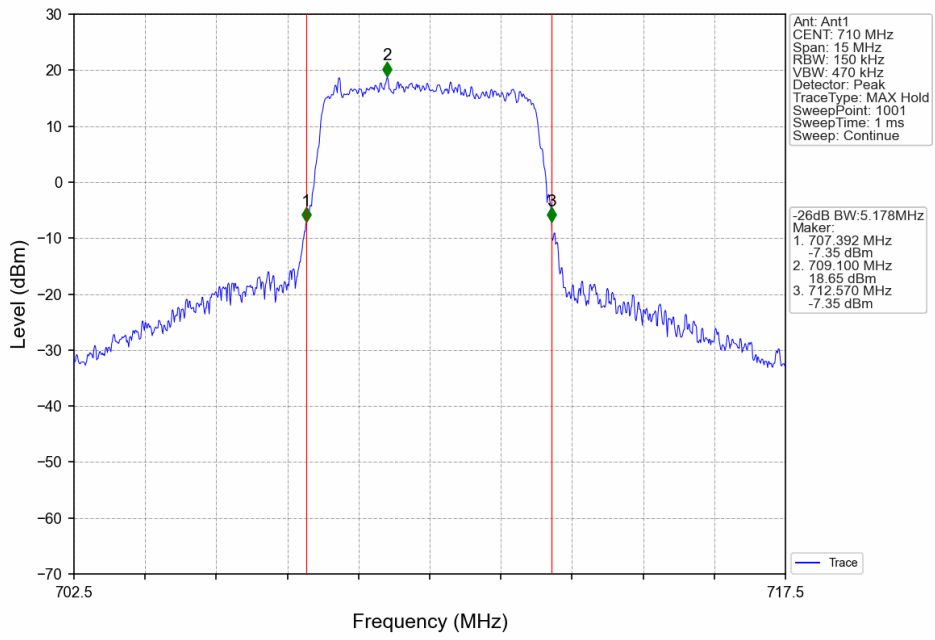
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



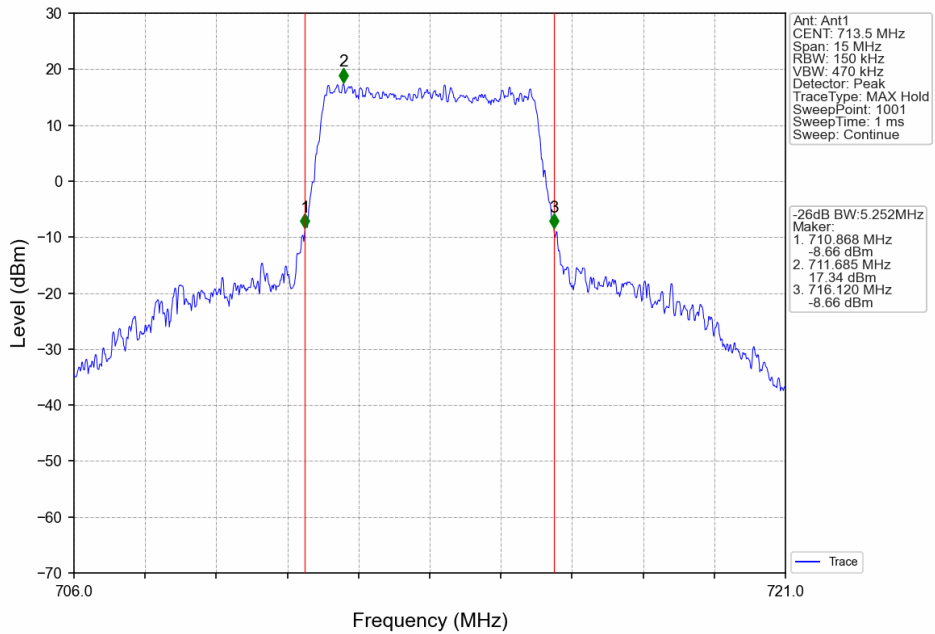
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



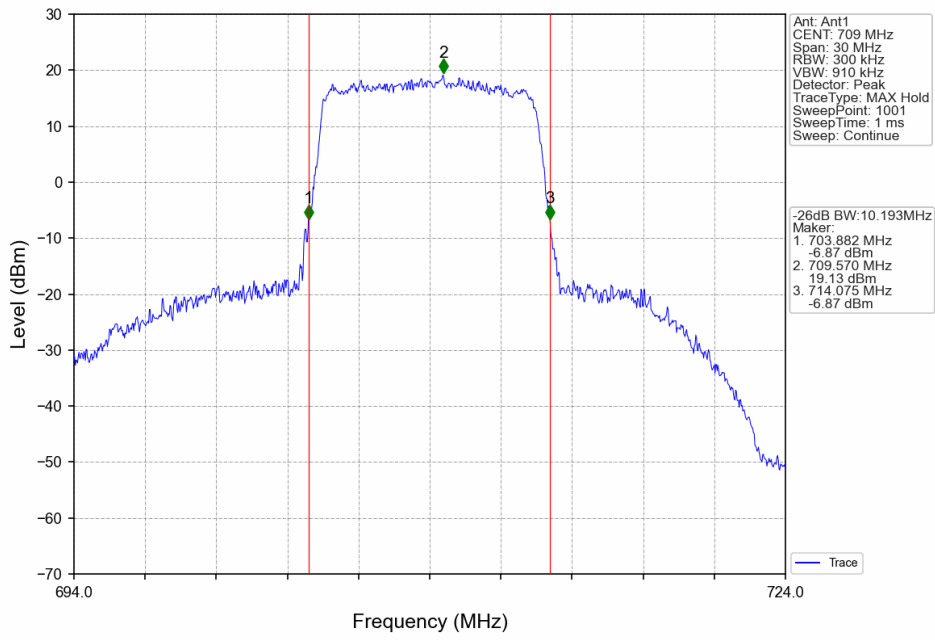
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



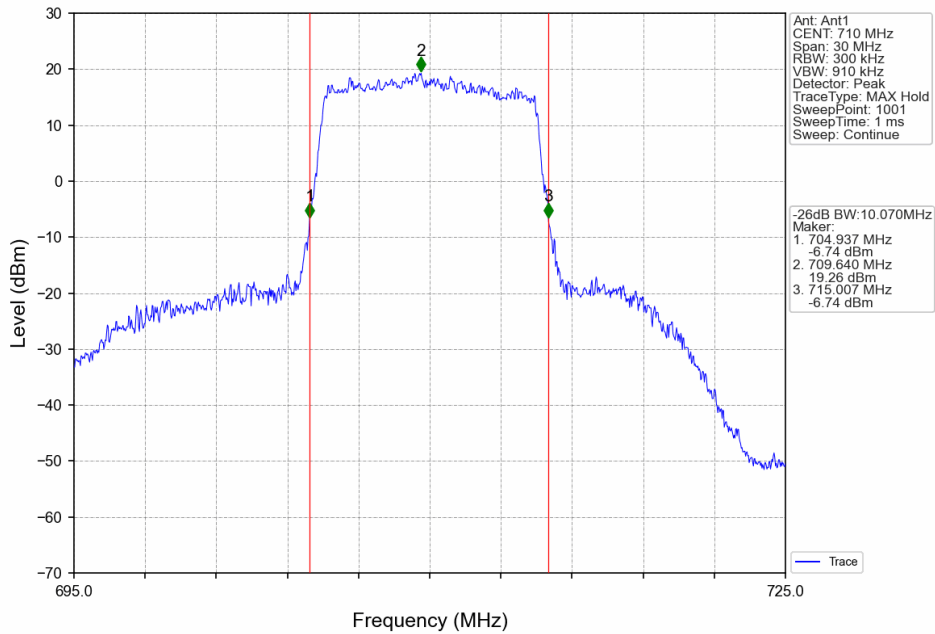
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



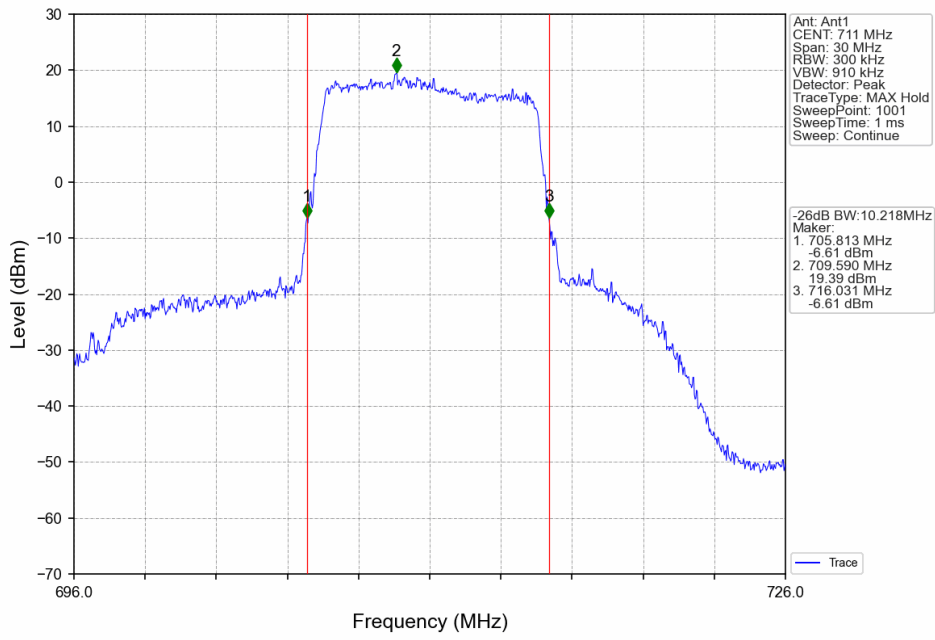
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



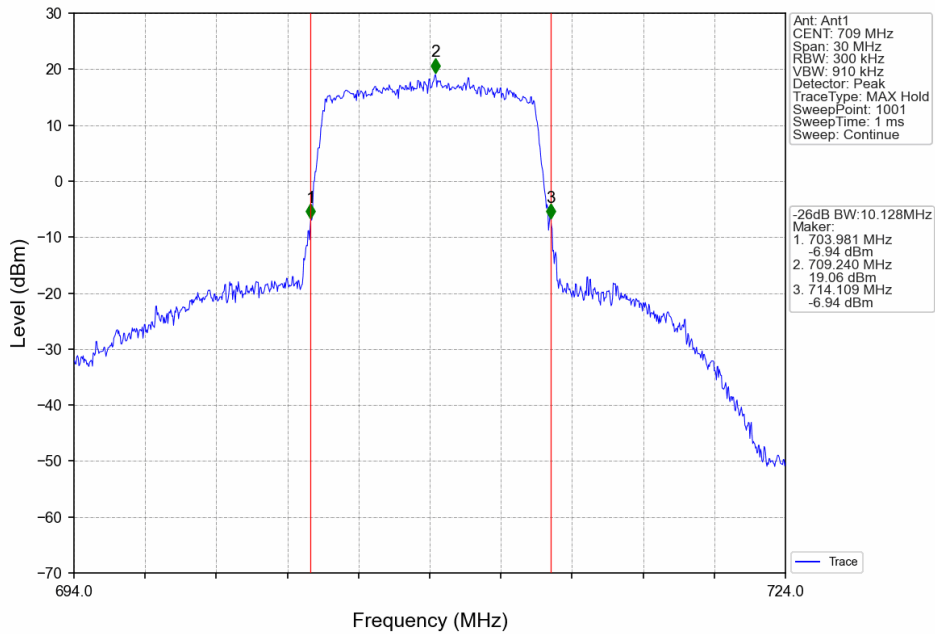
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



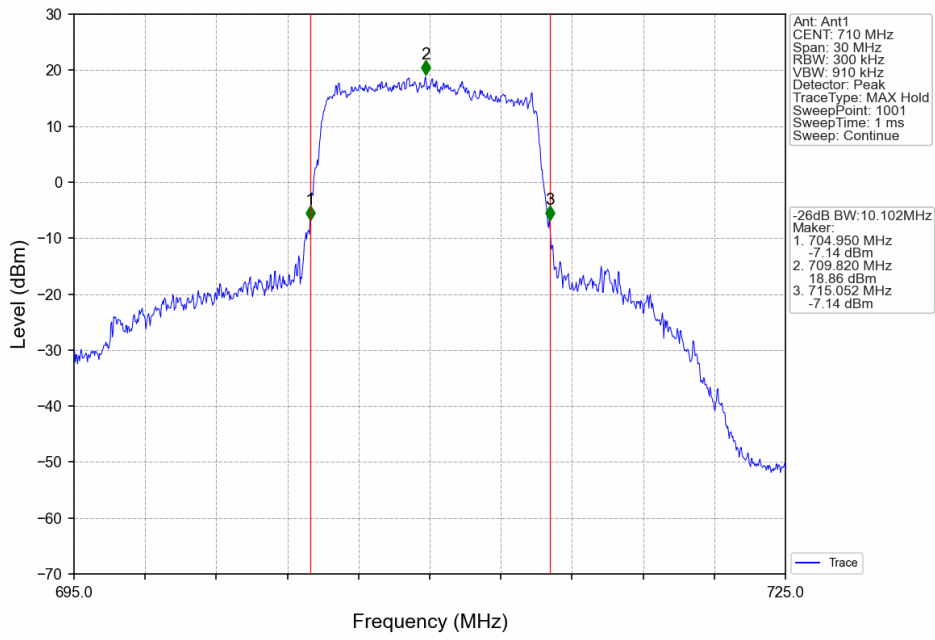
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



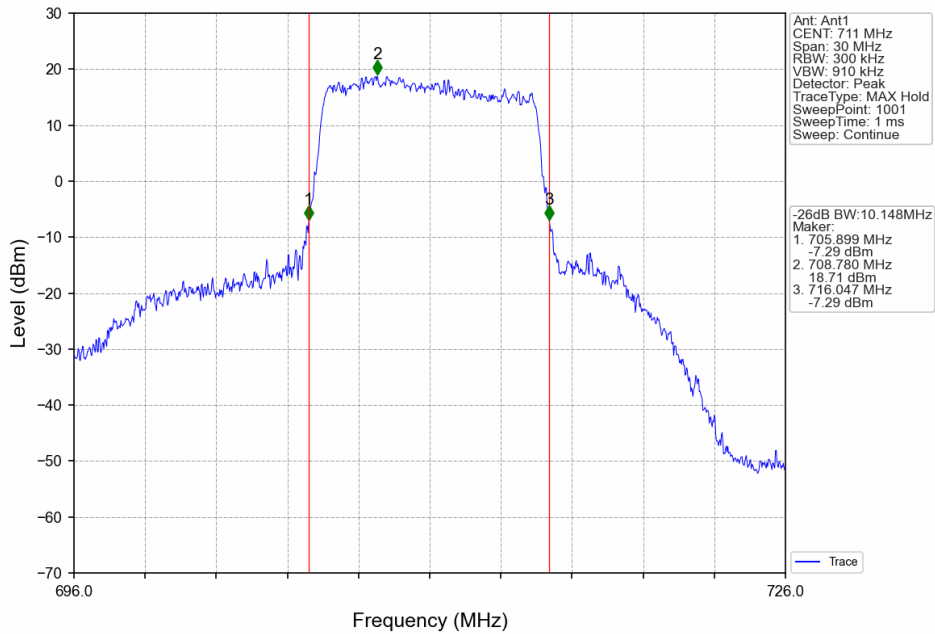
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



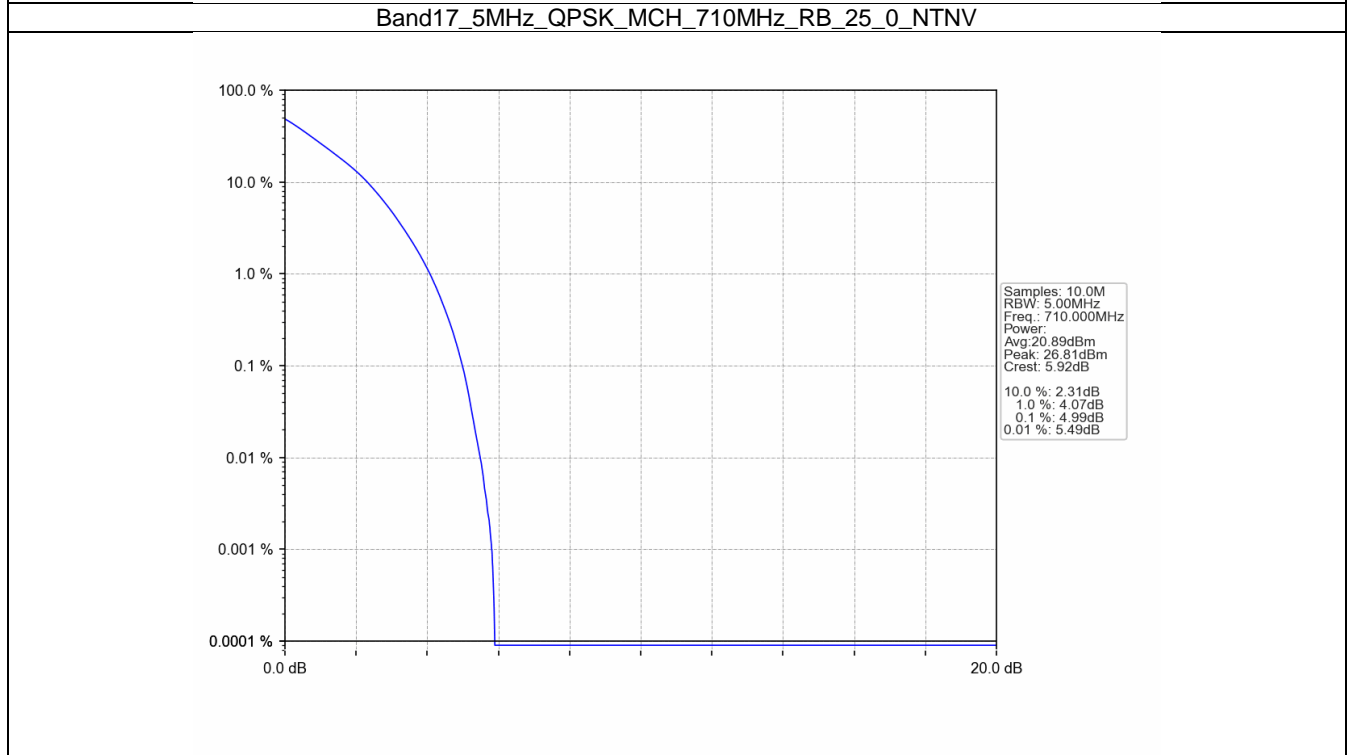
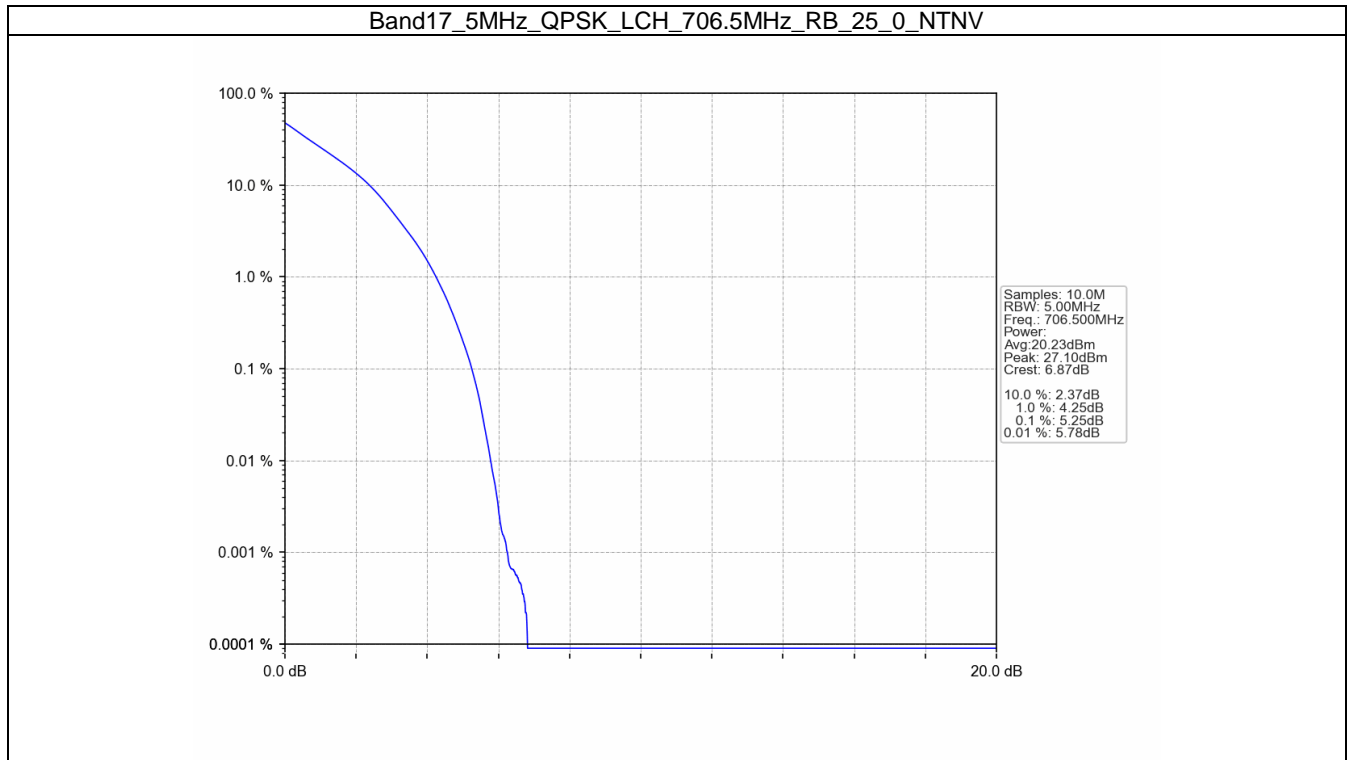
5. Peak-Average Ratio

5.1 B17_5MHz

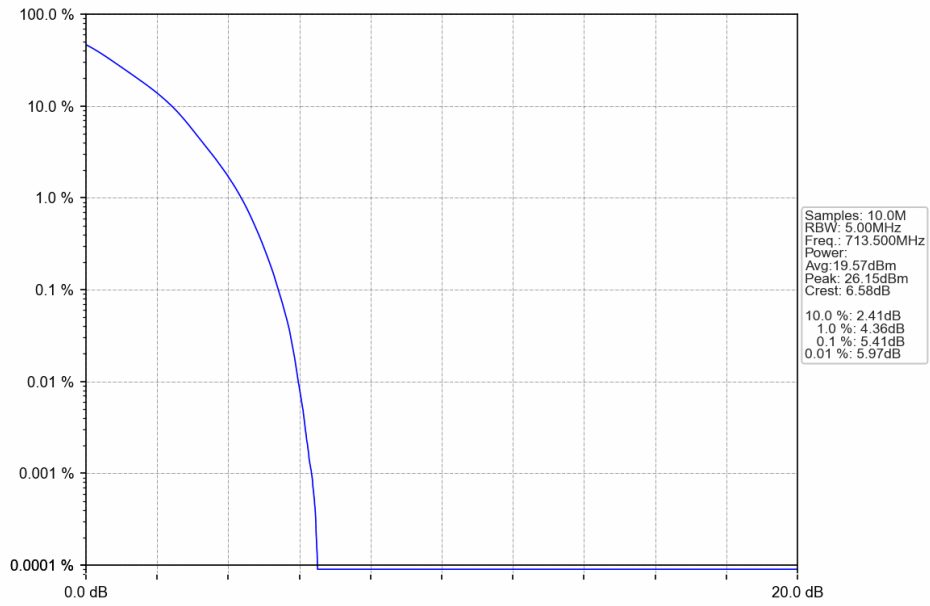
5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.25	<=13	Pass
	710	25	0	4.99	<=13	Pass
	713.5	25	0	5.41	<=13	Pass
16QAM	706.5	25	0	5.61	<=13	Pass
	710	25	0	5.68	<=13	Pass
	713.5	25	0	5.88	<=13	Pass

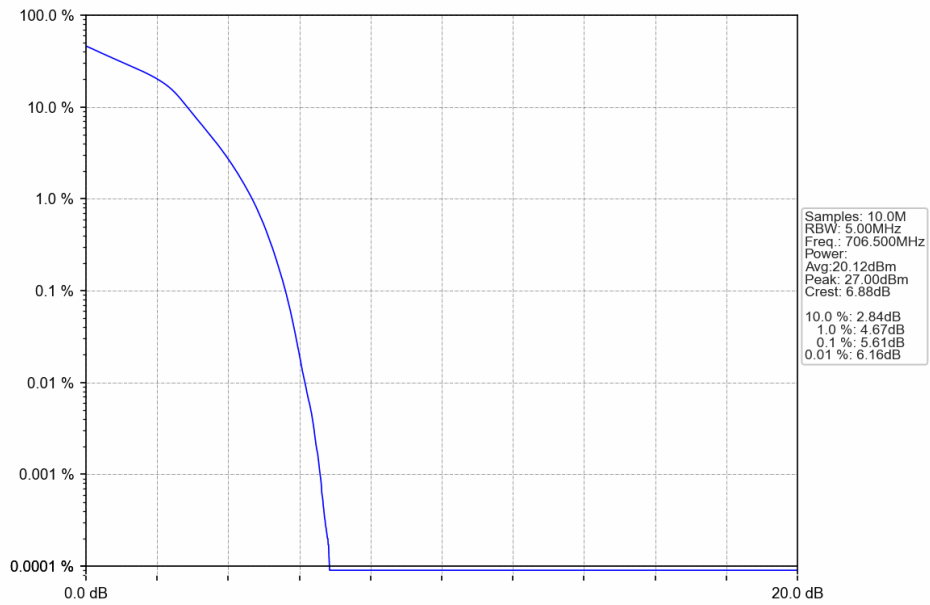
5.1.2 Test Graph



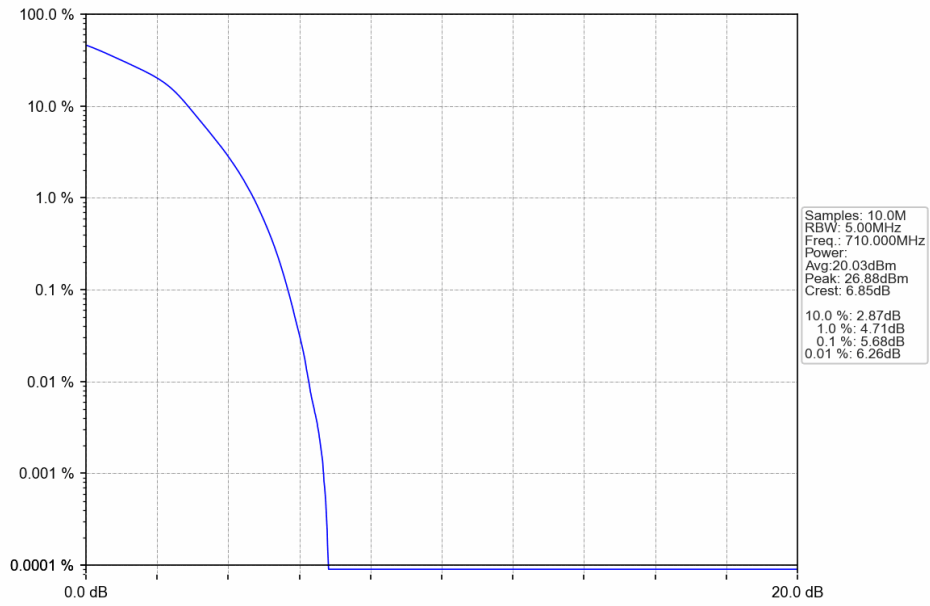
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



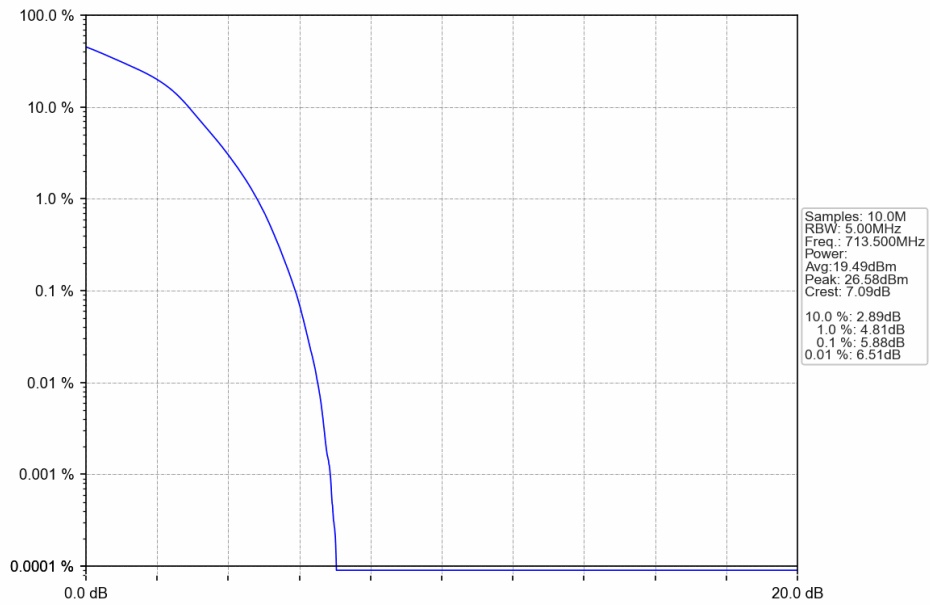
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

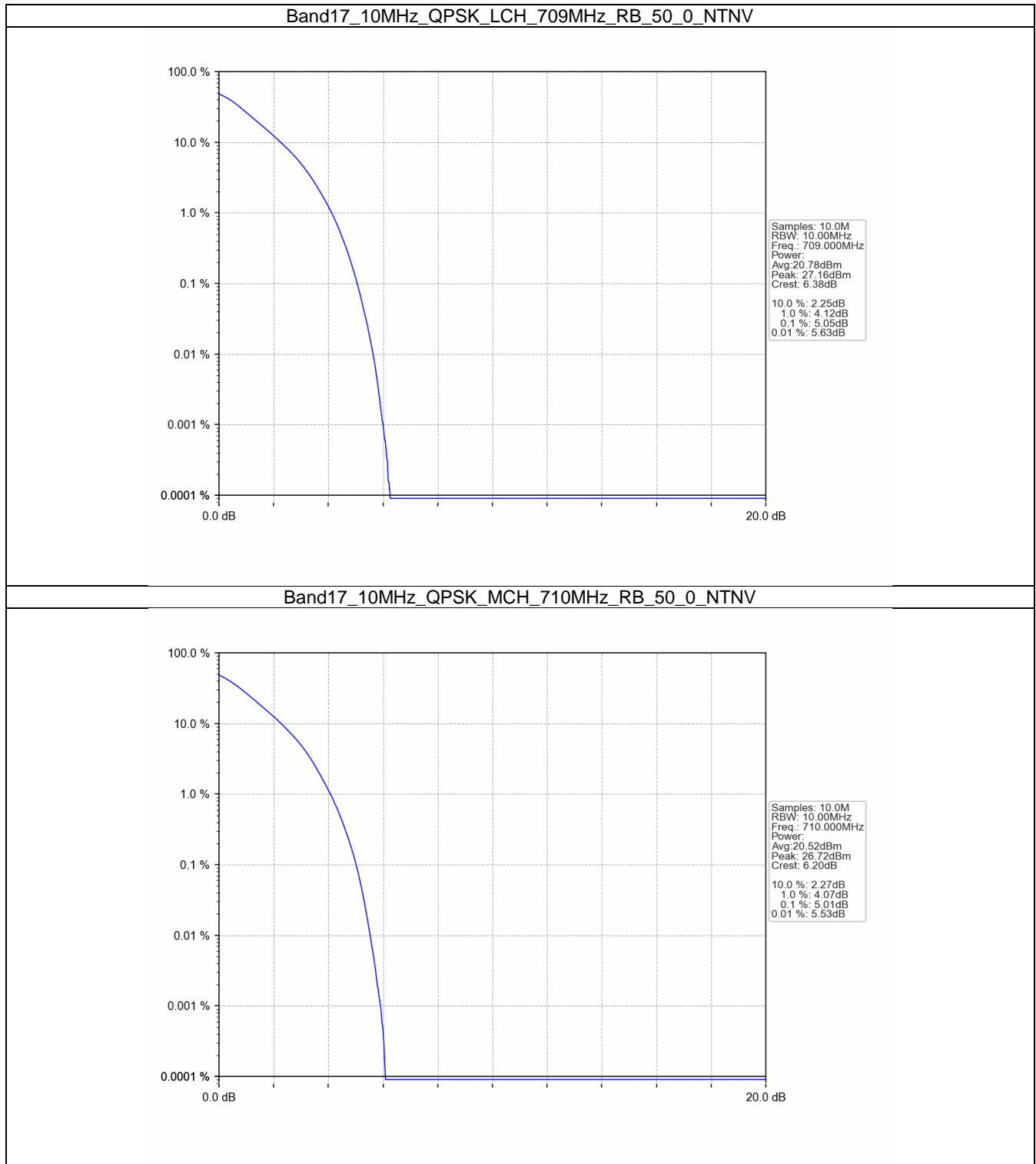


5.2 B17_10MHz

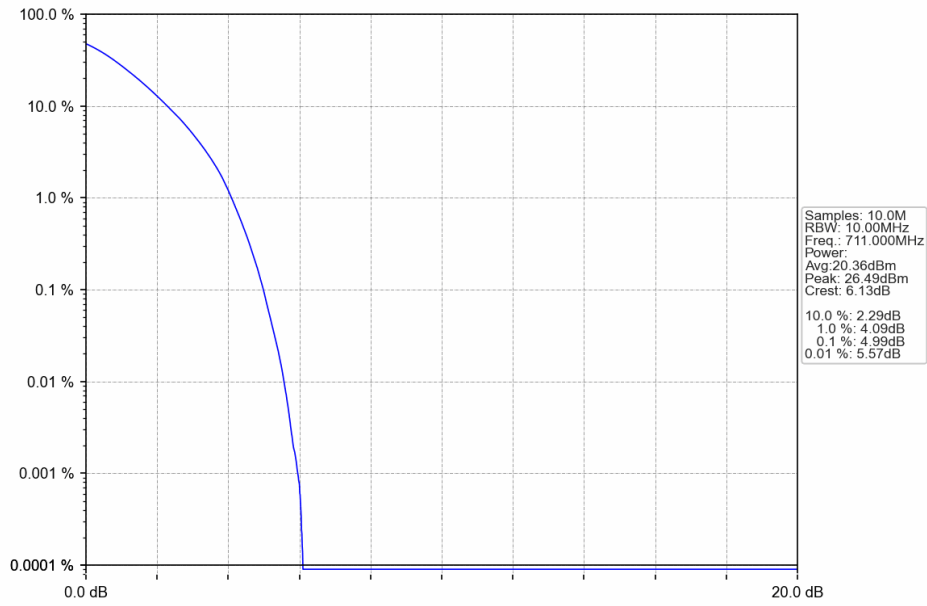
5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.05	<=13	Pass
	710	50	0	5.01	<=13	Pass
	711	50	0	4.99	<=13	Pass
16QAM	709	50	0	5.75	<=13	Pass
	710	50	0	5.83	<=13	Pass
	711	50	0	5.78	<=13	Pass

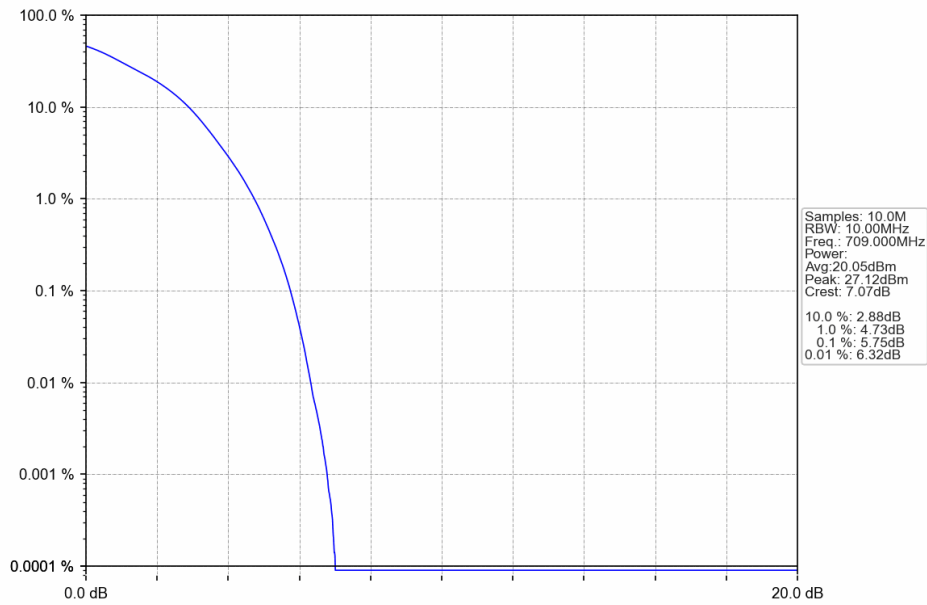
5.2.2 Test Graph



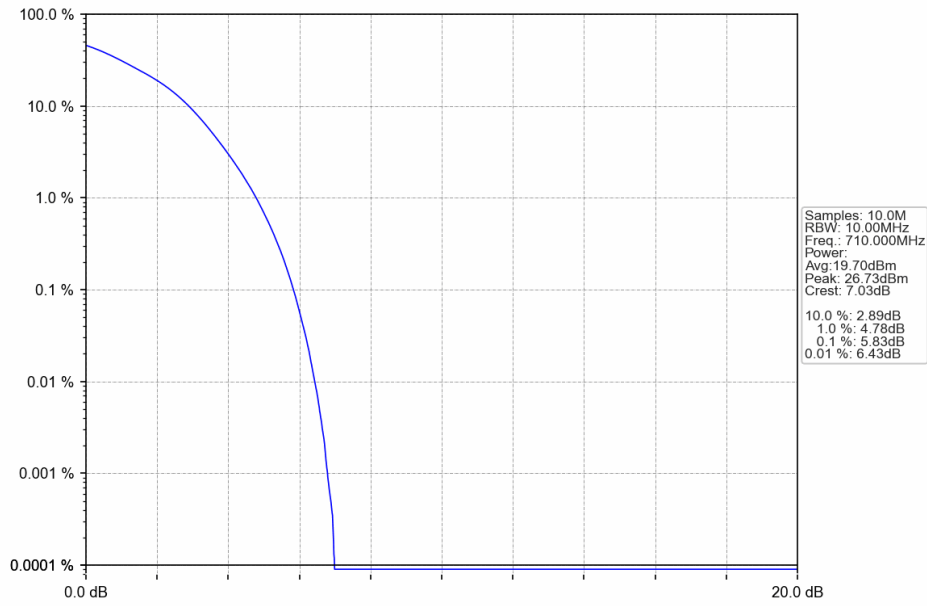
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



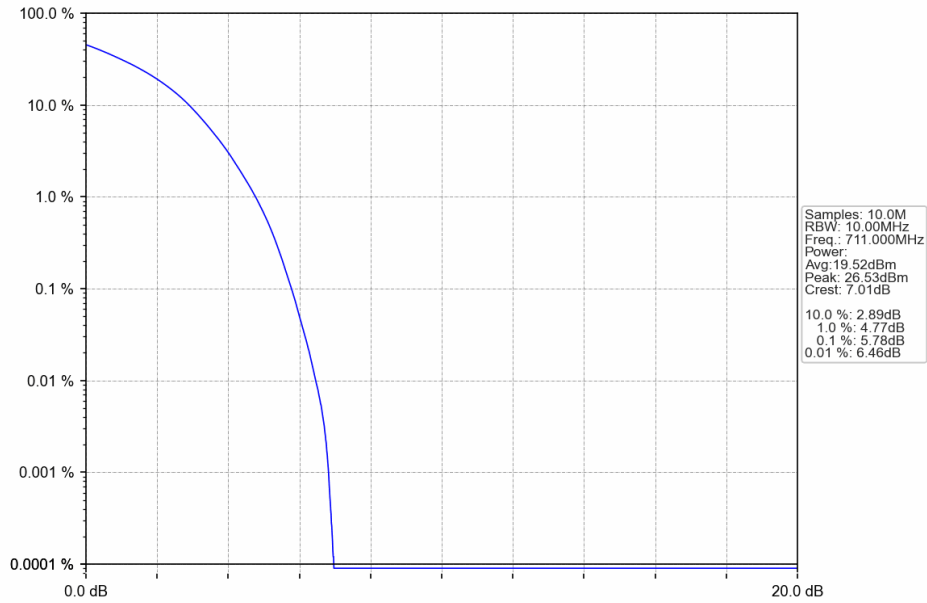
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



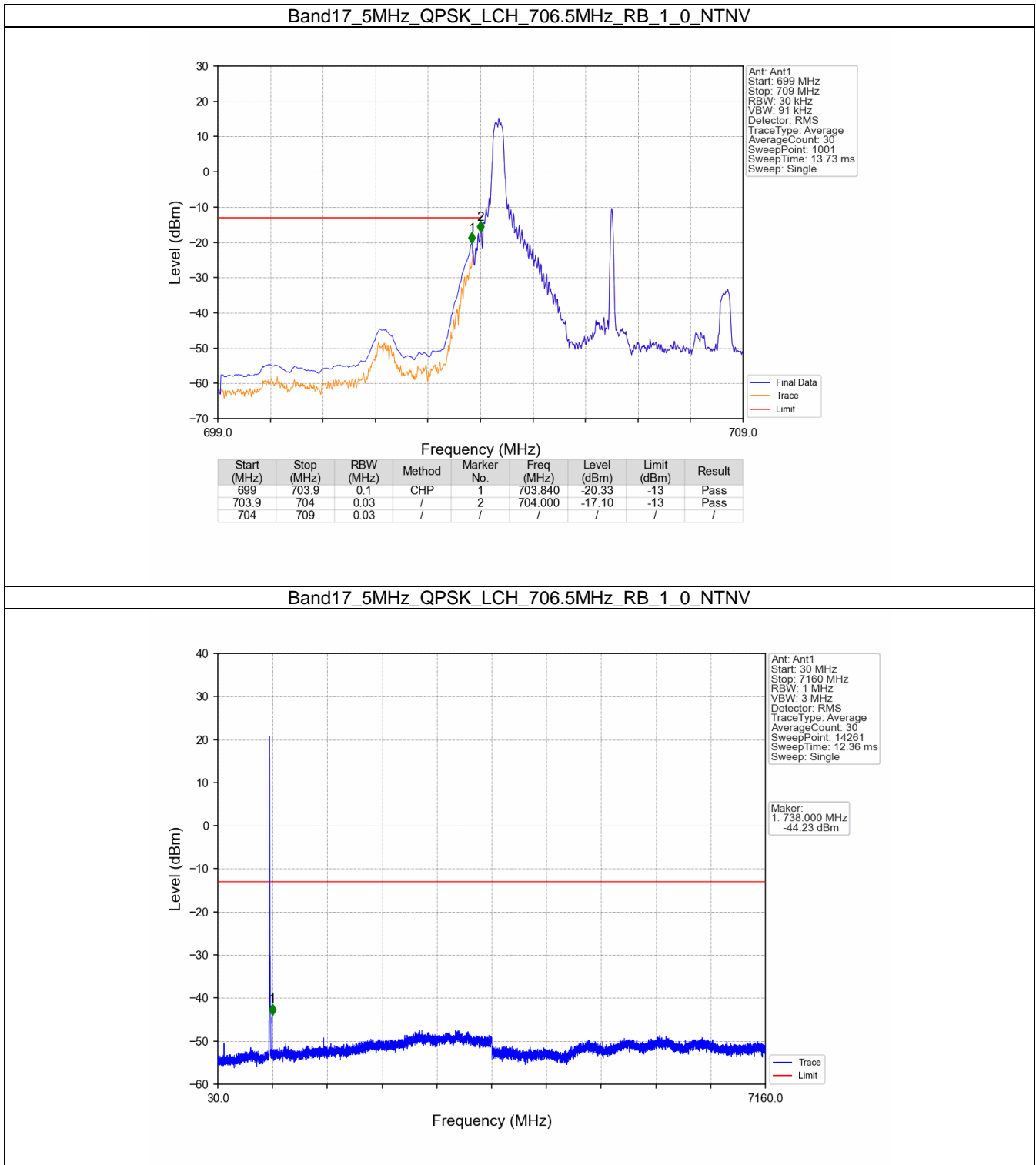
6. Spurious Emission

6.1 B17_5MHz

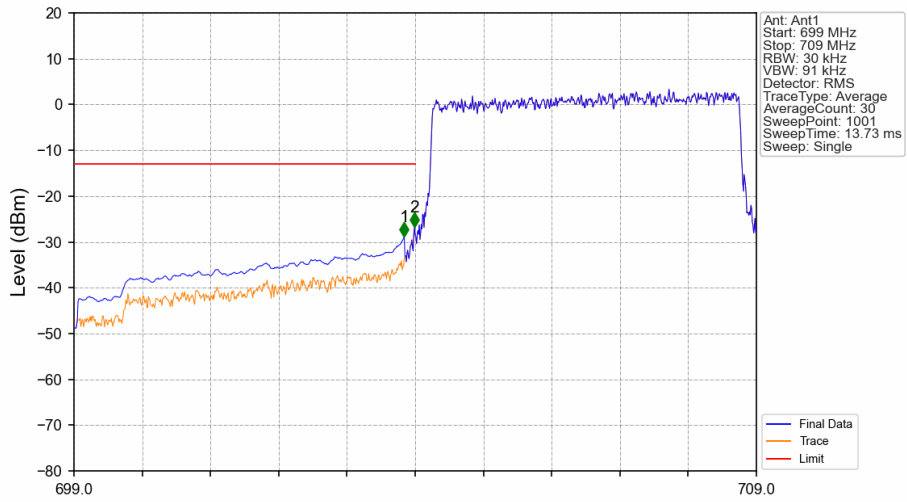
6.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
16QAM	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass

6.1.2 Test Graph

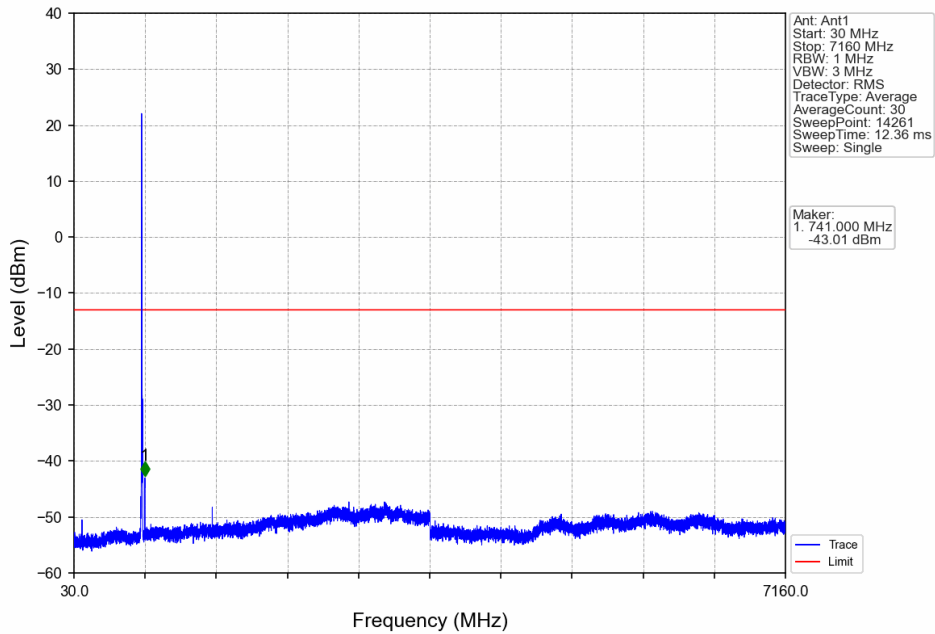


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

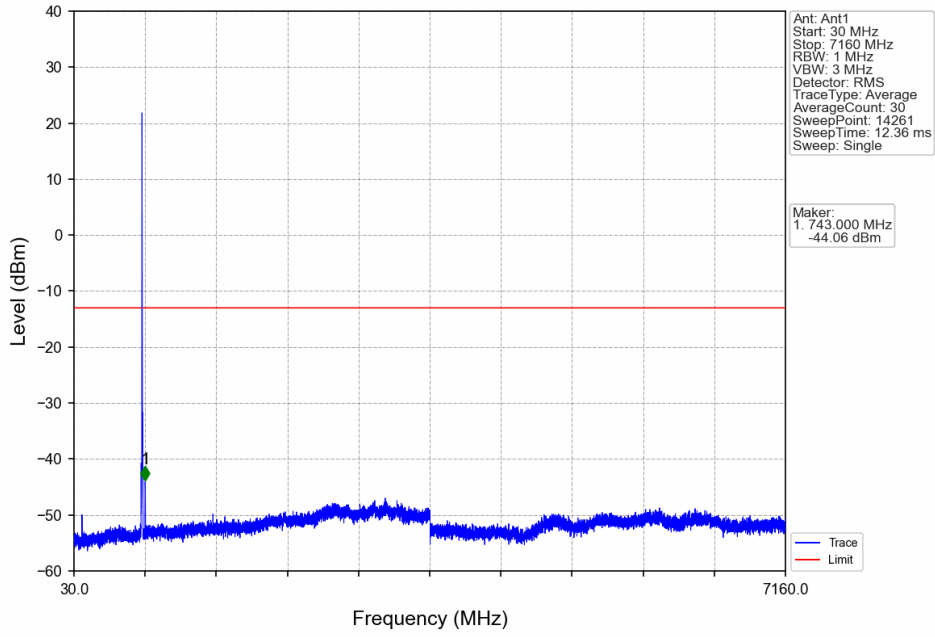


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-28.85	-13	Pass
703.9	704	0.03	/	2	703.990	-26.72	-13	Pass
704	709	0.03	/	/	/	/	/	/

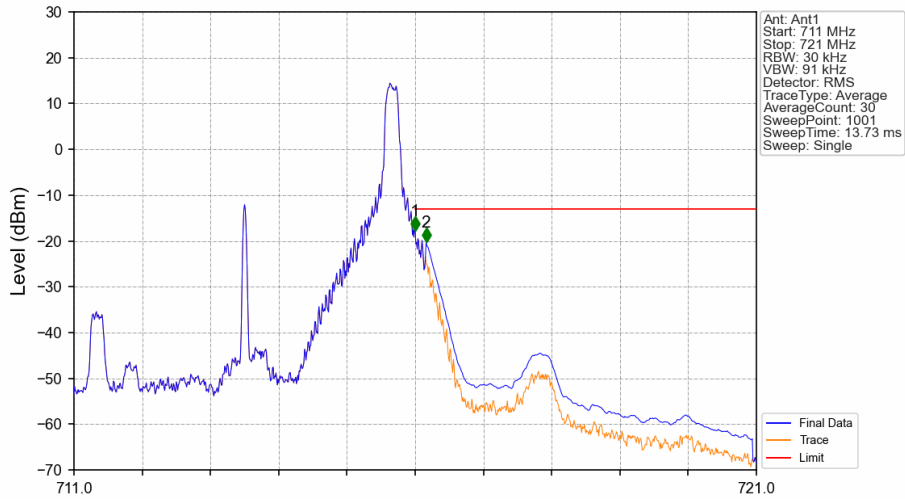
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

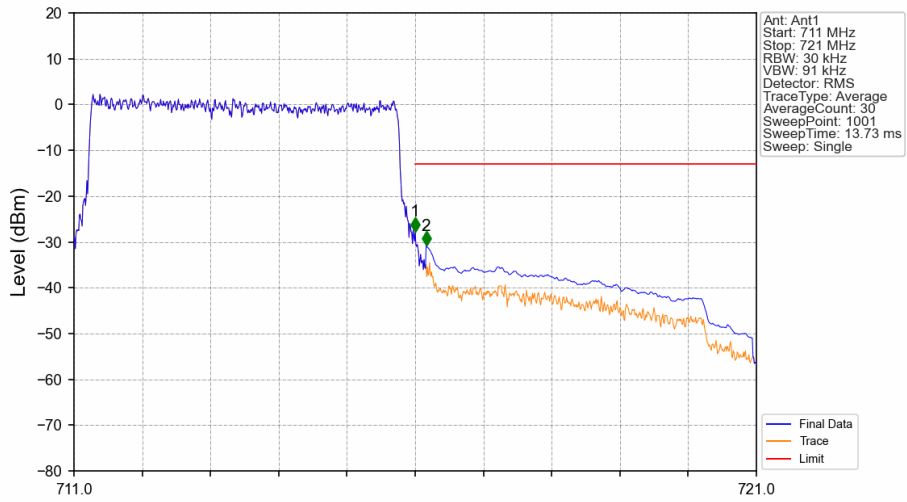


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



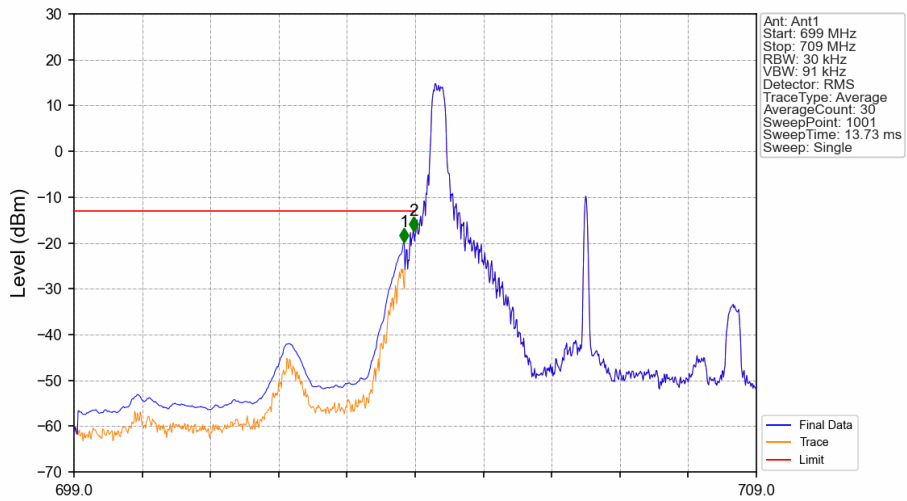
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-17.77	-13	Pass
716.1	721	0.1	CHP	2	716.160	-20.33	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



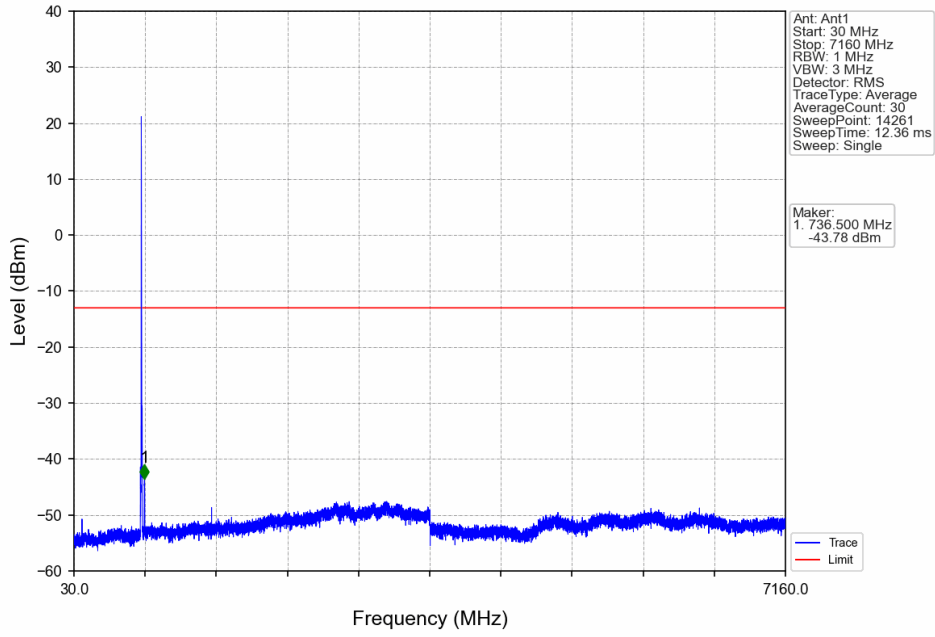
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-27.71	-13	Pass
716.1	721	0.1	CHP	2	716.160	-30.85	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

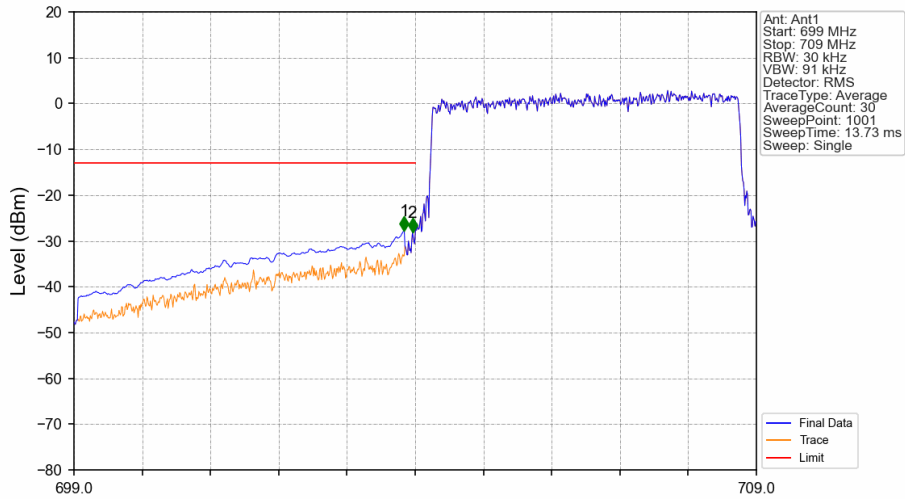


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-19.82	-13	Pass
703.9	704	0.03	/	2	703.980	-17.36	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

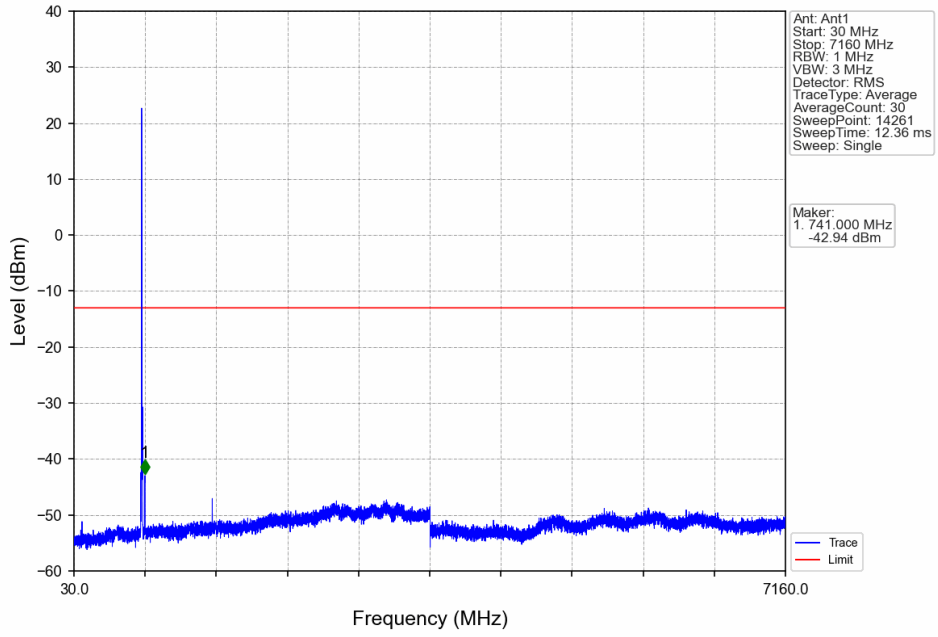


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

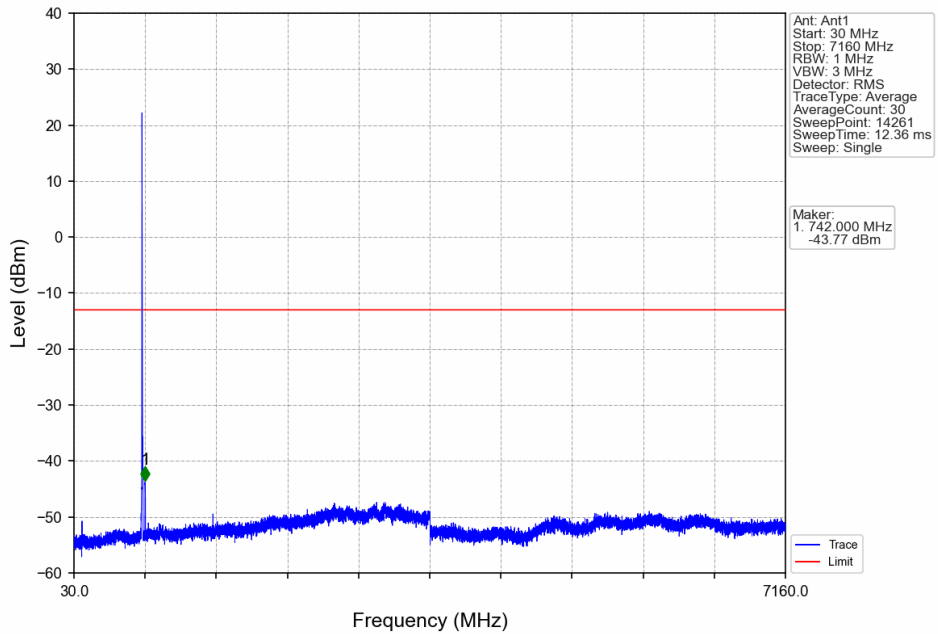


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-27.77	-13	Pass
703.9	704	0.03	/	2	703.960	-28.13	-13	Pass
704	709	0.03	/	/	/	/	/	/

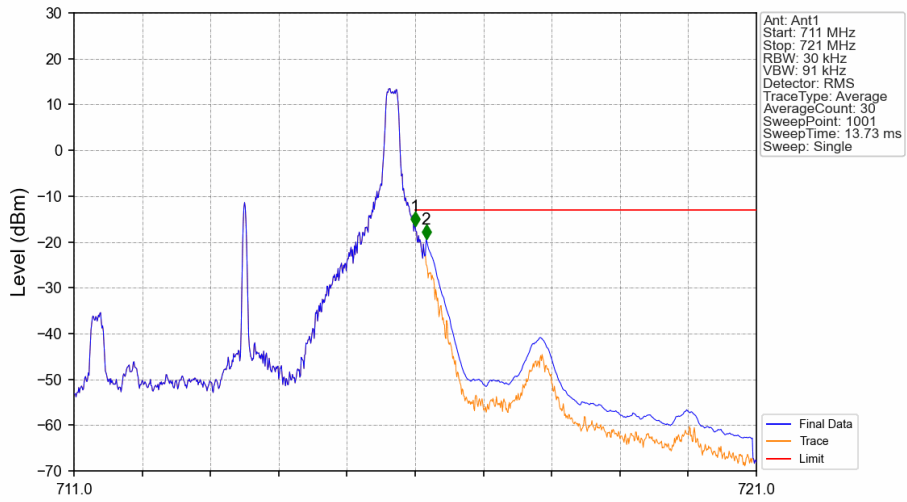
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

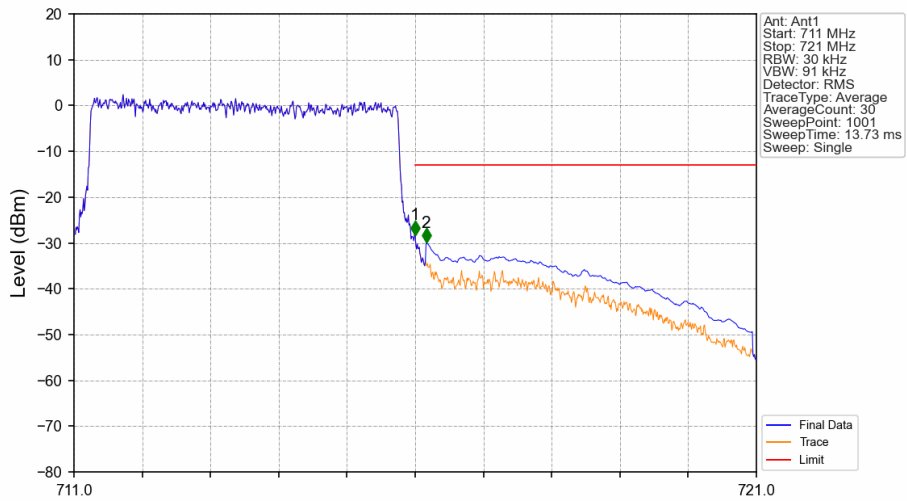


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-16.57	-13	Pass
716.1	721	0.1	CHP	2	716.160	-19.39	-13	Pass

Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



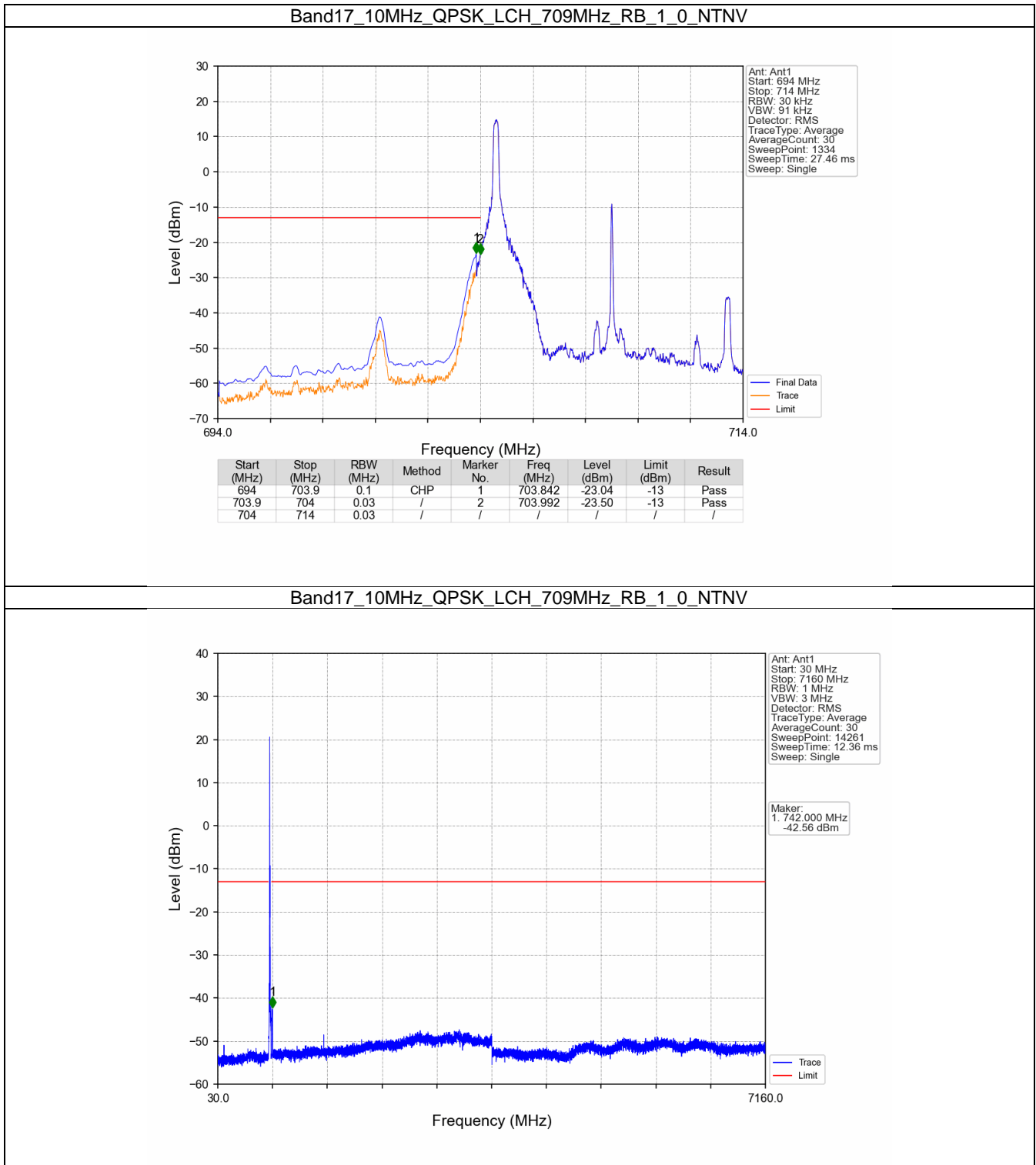
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-28.24	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.96	-13	Pass

6.2 B17_10MHz

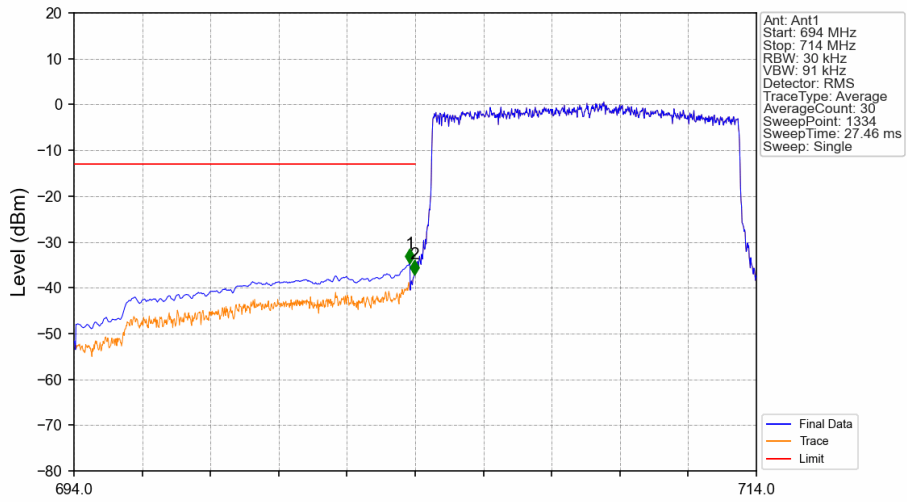
6.2.1 Test Result

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

6.2.2 Test Graph

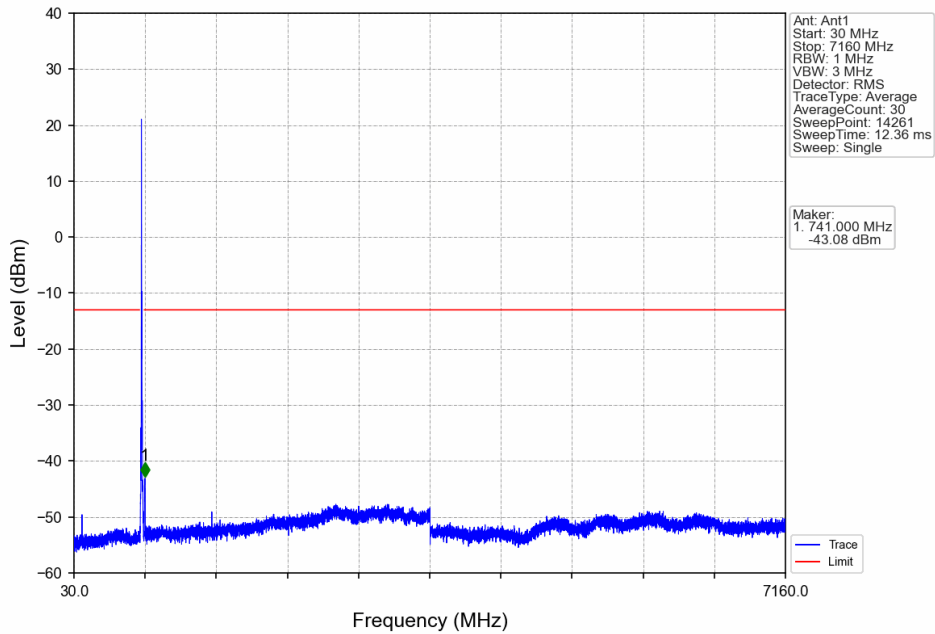


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

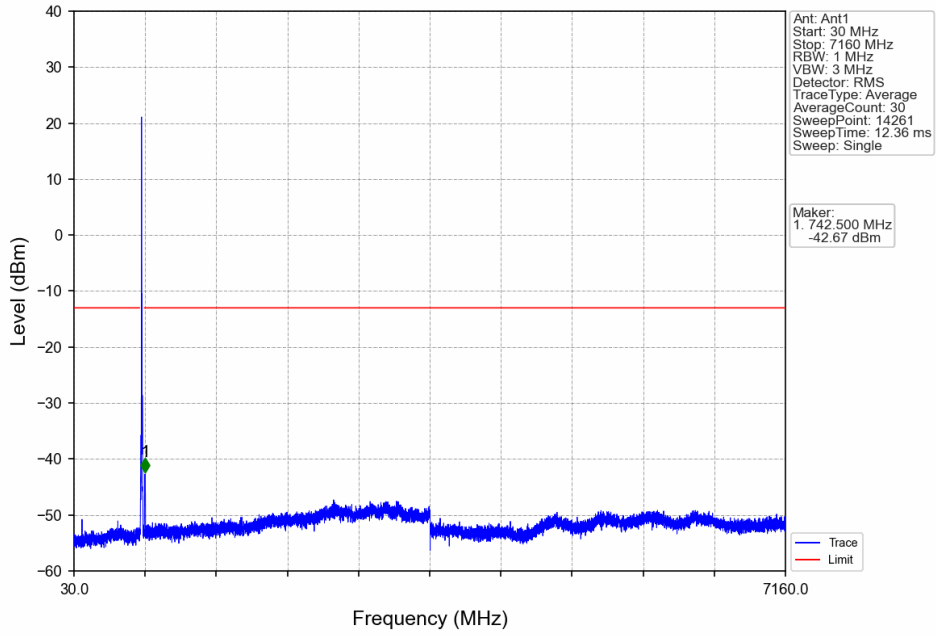


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-34.63	-13	Pass
703.9	704	0.03	/	2	703.977	-37.05	-13	Pass
704	714	0.03	/	/	/	/	/	/

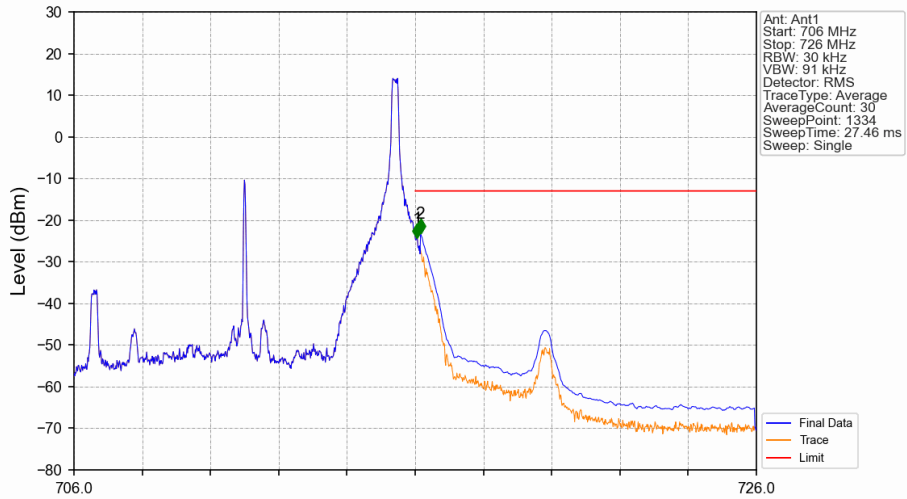
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

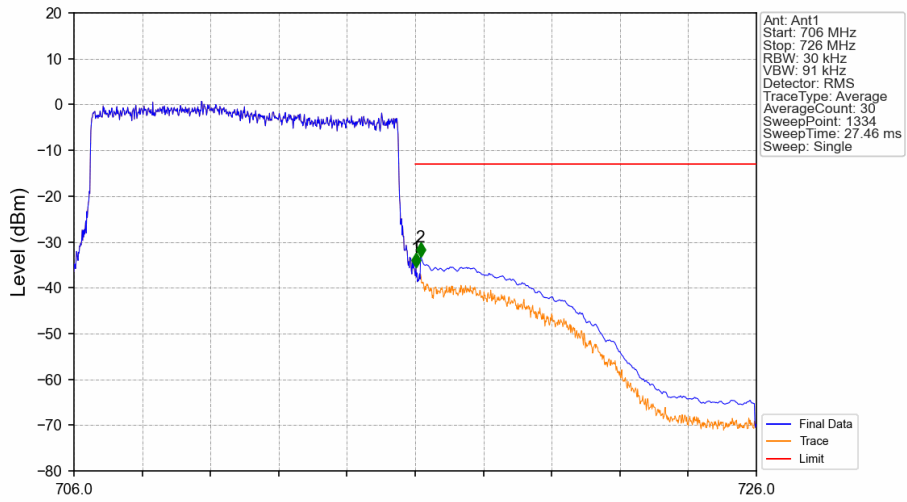


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



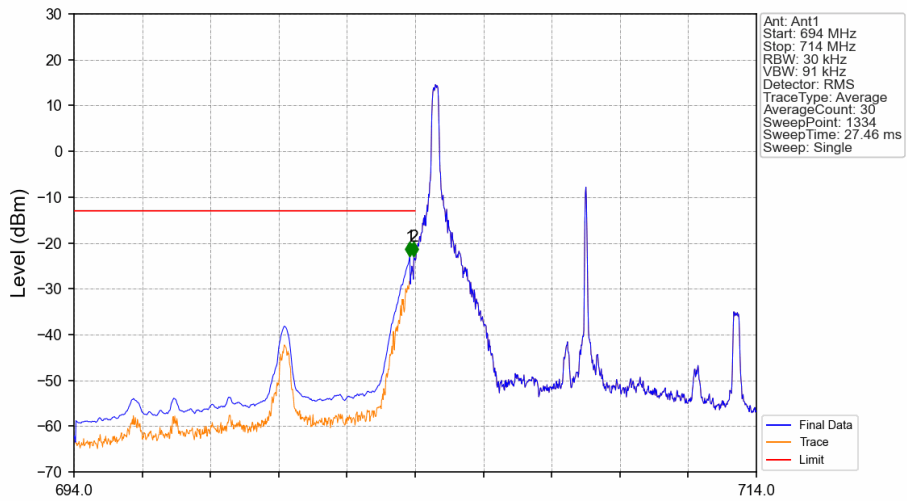
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.053	-24.35	-13	Pass
716.1	726	0.1	CHP	2	716.158	-23.20	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



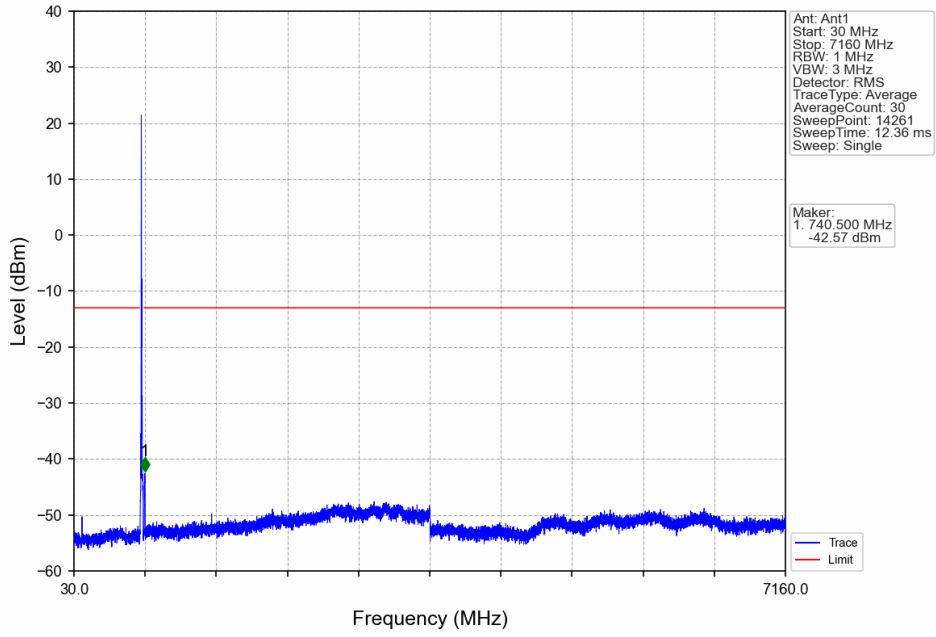
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.023	-35.52	-13	Pass
716.1	726	0.1	CHP	2	716.158	-33.22	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

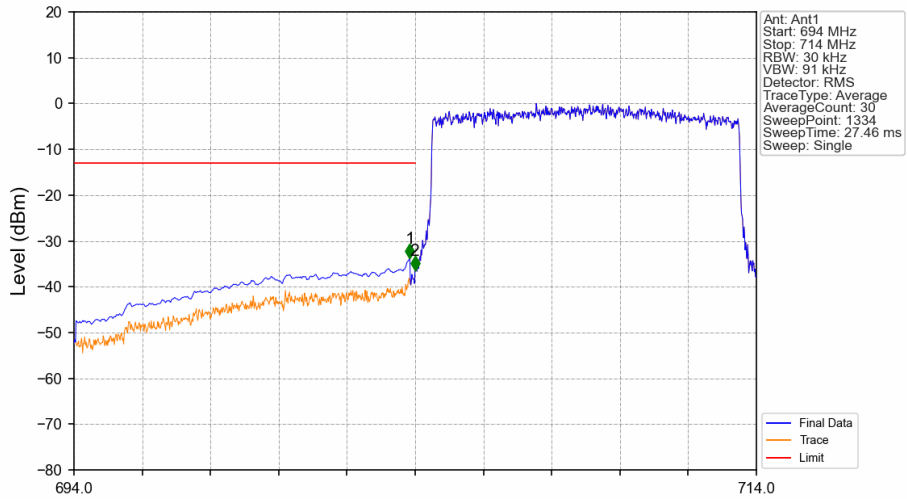


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-22.92	-13	Pass
703.9	704	0.03	/	2	703.962	-22.92	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

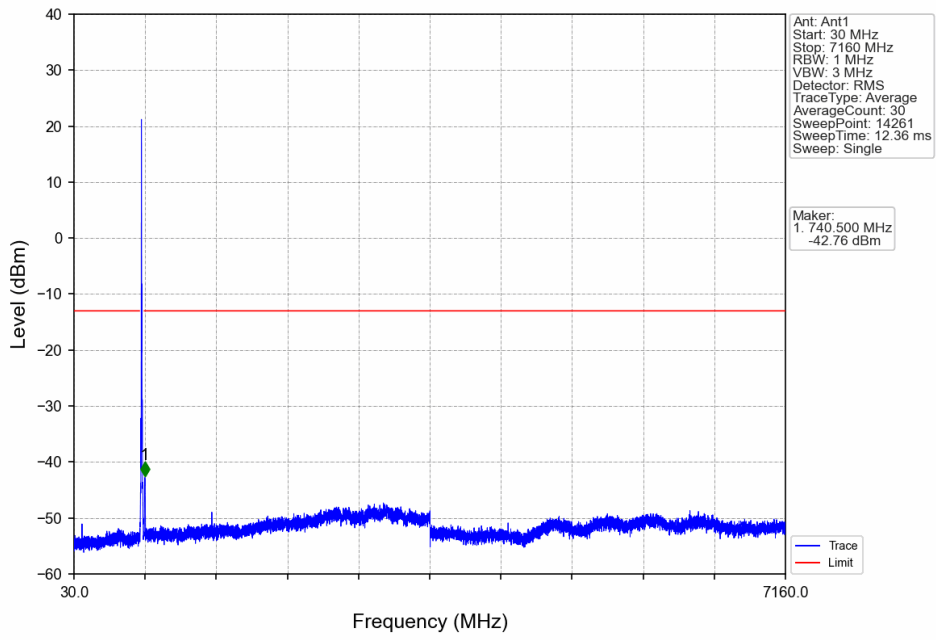


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

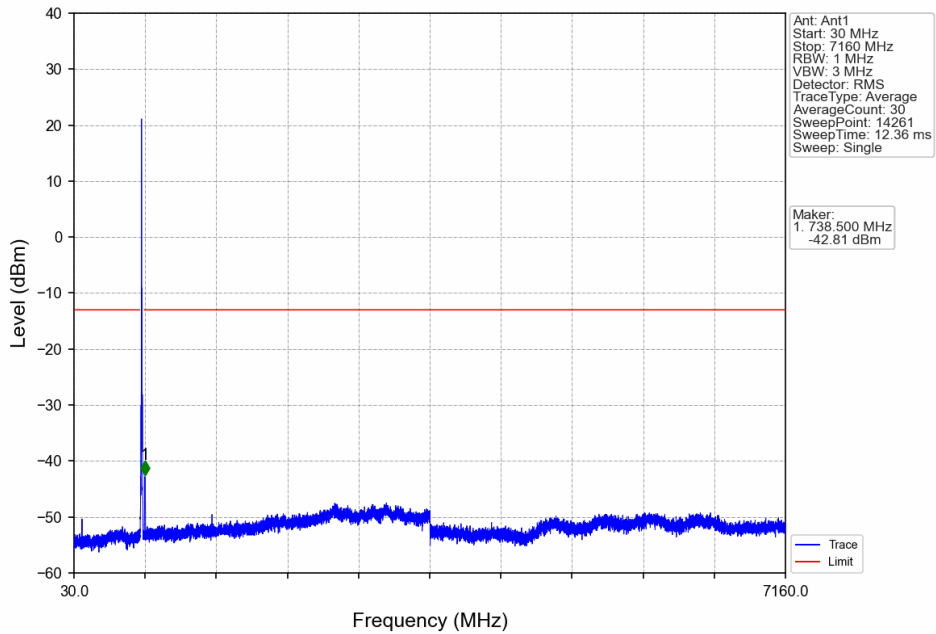


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-33.77	-13	Pass
703.9	704	0.03	/	2	703.992	-36.50	-13	Pass
704	714	0.03	/	/	/	/	/	/

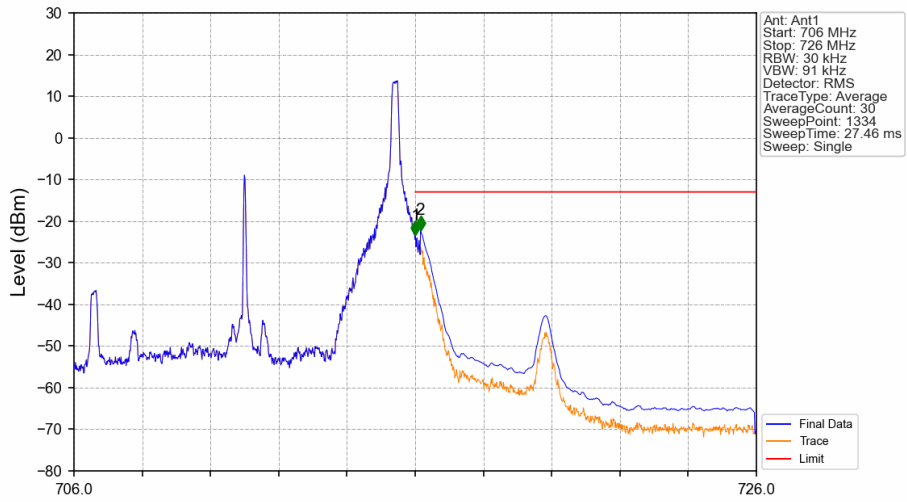
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

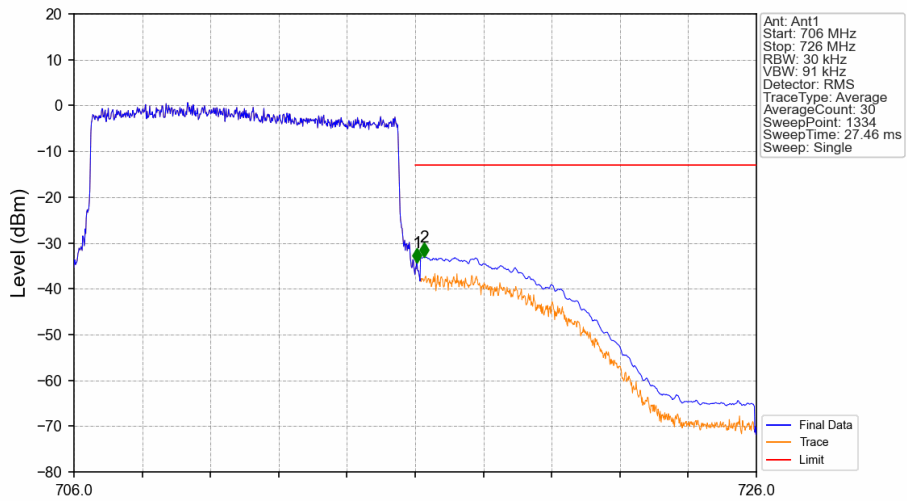


Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-23.37	-13	Pass
716.1	726	0.1	CHP	2	716.158	-22.10	-13	Pass

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.053	-34.29	-13	Pass
716.1	726	0.1	CHP	2	716.263	-33.06	-13	Pass

7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.1991	0.0142	ppm	4M60G7D	27H	22.99
17	5	706.5	713.5	0.1977	0.0141	ppm	4M61W7D	27H	22.96
17	10	709	711	0.2037	0.0119	ppm	9M08G7D	27H	23.09
17	10	709	711	0.2004	0.0121	ppm	9M04W7D	27H	23.02

7.2 Form731_ERP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.0830	0.0142	ppm	4M60G7D	27H	19.19
17	5	706.5	713.5	0.0824	0.0141	ppm	4M61W7D	27H	19.16
17	10	709	711	0.0849	0.0119	ppm	9M08G7D	27H	19.29
17	10	709	711	0.0836	0.0121	ppm	9M04W7D	27H	19.22