

Appendix B.11 for KSEM2108001480CR-LTE-Band 17

1. Effective (Isotropic) Radiated Power Output Data

1.1 B17\_5MHz\_ERP

1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	24.14	-1.60	20.39	<=34.77	Pass		
			13	24.16	-1.60	20.41	<=34.77	Pass		
			24	24.16	-1.60	20.41	<=34.77	Pass		
		12	0	23.12	-1.60	19.37	<=34.77	Pass		
			6	22.95	-1.60	19.20	<=34.77	Pass		
			13	23.02	-1.60	19.27	<=34.77	Pass		
		25	0	23.05	-1.60	19.30	<=34.77	Pass		
		710	1	0	24.05	-1.60	20.30	<=34.77	Pass	
				13	24.07	-1.60	20.32	<=34.77	Pass	
	24			23.79	-1.60	20.04	<=34.77	Pass		
	12		0	22.89	-1.60	19.14	<=34.77	Pass		
			6	22.95	-1.60	19.20	<=34.77	Pass		
			13	22.87	-1.60	19.12	<=34.77	Pass		
	25		0	22.96	-1.60	19.21	<=34.77	Pass		
	713.5		1	0	24.08	-1.60	20.33	<=34.77	Pass	
				13	24.03	-1.60	20.28	<=34.77	Pass	
		24		23.67	-1.60	19.92	<=34.77	Pass		
		12	0	22.98	-1.60	19.23	<=34.77	Pass		
			6	22.98	-1.60	19.23	<=34.77	Pass		
			13	22.97	-1.60	19.22	<=34.77	Pass		
		25	0	23.03	-1.60	19.28	<=34.77	Pass		
		16QAM	706.5	1	0	23.03	-1.60	19.28	<=34.77	Pass
					13	22.97	-1.60	19.22	<=34.77	Pass
	24				23.05	-1.60	19.30	<=34.77	Pass	
12	0			21.80	-1.60	18.05	<=34.77	Pass		
	6			21.83	-1.60	18.08	<=34.77	Pass		
	13			21.87	-1.60	18.12	<=34.77	Pass		
25	0			21.97	-1.60	18.22	<=34.77	Pass		
710	1			0	22.96	-1.60	19.21	<=34.77	Pass	
				13	23.21	-1.60	19.46	<=34.77	Pass	
			24	23.02	-1.60	19.27	<=34.77	Pass		
	12		0	21.82	-1.60	18.07	<=34.77	Pass		
			6	21.89	-1.60	18.14	<=34.77	Pass		
			13	21.83	-1.60	18.08	<=34.77	Pass		
	25		0	21.93	-1.60	18.18	<=34.77	Pass		



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713.5	1	0	22.98	-1.60	19.23	<=34.77	Pass
		13	22.99	-1.60	19.24	<=34.77	Pass
		24	22.61	-1.60	18.86	<=34.77	Pass
	12	0	22.14	-1.60	18.39	<=34.77	Pass
		6	22.16	-1.60	18.41	<=34.77	Pass
		13	22.11	-1.60	18.36	<=34.77	Pass
	25	0	22.19	-1.60	18.44	<=34.77	Pass

Note1: ERP=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		Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	709	1	0	24.29	-1.60	20.54	<=34.77	Pass	
			25	24.41	-1.60	20.66	<=34.77	Pass	
			49	24.37	-1.60	20.62	<=34.77	Pass	
		25	0	23.32	-1.60	19.57	<=34.77	Pass	
			13	23.29	-1.60	19.54	<=34.77	Pass	
			25	23.34	-1.60	19.59	<=34.77	Pass	
	50	0	23.27	-1.60	19.52	<=34.77	Pass		
	710	1	0	24.11	-1.60	20.36	<=34.77	Pass	
			25	24.19	-1.60	20.44	<=34.77	Pass	
			49	23.87	-1.60	20.12	<=34.77	Pass	
		25	0	23.05	-1.60	19.30	<=34.77	Pass	
			13	23.09	-1.60	19.34	<=34.77	Pass	
			25	23.06	-1.60	19.31	<=34.77	Pass	
	50	0	23.06	-1.60	19.31	<=34.77	Pass		
	711	1	0	24.23	-1.60	20.48	<=34.77	Pass	
			25	24.11	-1.60	20.36	<=34.77	Pass	
			49	23.61	-1.60	19.86	<=34.77	Pass	
		25	0	22.91	-1.60	19.16	<=34.77	Pass	
			13	22.95	-1.60	19.20	<=34.77	Pass	
			25	22.92	-1.60	19.17	<=34.77	Pass	
	50	0	23.00	-1.60	19.25	<=34.77	Pass		
	16QAM	709	1	0	23.05	-1.60	19.30	<=34.77	Pass
				25	23.00	-1.60	19.25	<=34.77	Pass
				49	23.04	-1.60	19.29	<=34.77	Pass
25			0	21.99	-1.60	18.24	<=34.77	Pass	
			13	22.05	-1.60	18.30	<=34.77	Pass	
			25	22.08	-1.60	18.33	<=34.77	Pass	
50		0	21.97	-1.60	18.22	<=34.77	Pass		
710		1	0	23.01	-1.60	19.26	<=34.77	Pass	
			25	23.03	-1.60	19.28	<=34.77	Pass	



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	25	49	22.84	-1.60	19.09	<=34.77	Pass	
		0	21.86	-1.60	18.11	<=34.77	Pass	
		13	22.04	-1.60	18.29	<=34.77	Pass	
		25	21.97	-1.60	18.22	<=34.77	Pass	
	50	0	21.99	-1.60	18.24	<=34.77	Pass	
	711	1	0	23.55	-1.60	19.80	<=34.77	Pass
			25	23.55	-1.60	19.80	<=34.77	Pass
			49	23.09	-1.60	19.34	<=34.77	Pass
		25	0	21.95	-1.60	18.20	<=34.77	Pass
			13	22.01	-1.60	18.26	<=34.77	Pass
			25	22.01	-1.60	18.26	<=34.77	Pass
		50	0	21.99	-1.60	18.24	<=34.77	Pass

Note1: ERP=Power+Antenna Gain-2.15

Remark1:

For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Power [dBm] + Gain [dBd]

EIRP [dBm] = Power [dBm] + Gain [dBi]

## 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	-0.07	-0.00	-2.5 to 2.5	Pass
					3.85	-0.14	-0.00	-2.5 to 2.5	Pass
					4.43	-1.06	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-1.43	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-0.16	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.03	-0.00	-2.5 to 2.5	Pass
				0	3.85	-1.27	-0.00	-2.5 to 2.5	Pass
				10	3.85	-0.29	-0.00	-2.5 to 2.5	Pass
				30	3.85	0.44	0.00	-2.5 to 2.5	Pass
	40	3.85	-1.00	-0.00	-2.5 to 2.5	Pass			
	50	3.85	-0.49	-0.00	-2.5 to 2.5	Pass			
	710	25	0	20	3.27	0.36	0.00	-2.5 to 2.5	Pass
					3.85	0.00	0.00	-2.5 to 2.5	Pass
					4.43	0.72	0.00	-2.5 to 2.5	Pass
				-30	3.85	1.09	0.00	-2.5 to 2.5	Pass
				-20	3.85	0.82	0.00	-2.5 to 2.5	Pass
				-10	3.85	0.11	0.00	-2.5 to 2.5	Pass
				0	3.85	0.11	0.00	-2.5 to 2.5	Pass
10				3.85	0.49	0.00	-2.5 to 2.5	Pass	



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				30	3.85	0.86	0.00	-2.5 to 2.5	Pass				
				40	3.85	-0.13	-0.00	-2.5 to 2.5	Pass				
				50	3.85	1.57	0.00	-2.5 to 2.5	Pass				
	713.5	25	0	20	3.27	1.67	0.00	-2.5 to 2.5	Pass				
3.85					2.59	0.00	-2.5 to 2.5	Pass					
4.43					3.59	0.01	-2.5 to 2.5	Pass					
							-30	3.85	3.26	0.00	-2.5 to 2.5	Pass	
							-20	3.85	2.40	0.00	-2.5 to 2.5	Pass	
							-10	3.85	2.55	0.00	-2.5 to 2.5	Pass	
							0	3.85	3.13	0.00	-2.5 to 2.5	Pass	
							10	3.85	2.25	0.00	-2.5 to 2.5	Pass	
							30	3.85	3.35	0.00	-2.5 to 2.5	Pass	
							40	3.85	3.88	0.01	-2.5 to 2.5	Pass	
							50	3.85	3.10	0.00	-2.5 to 2.5	Pass	
16QAM				706.5	25	0	20	3.27	-1.07	-0.00	-2.5 to 2.5	Pass	
	3.85	0.13	0.00					-2.5 to 2.5	Pass				
	4.43	0.79	0.00					-2.5 to 2.5	Pass				
								-30	3.85	1.47	0.00	-2.5 to 2.5	Pass
								-20	3.85	0.69	0.00	-2.5 to 2.5	Pass
								-10	3.85	0.66	0.00	-2.5 to 2.5	Pass
								0	3.85	1.82	0.00	-2.5 to 2.5	Pass
								10	3.85	1.44	0.00	-2.5 to 2.5	Pass
								30	3.85	0.14	0.00	-2.5 to 2.5	Pass
								40	3.85	0.37	0.00	-2.5 to 2.5	Pass
								50	3.85	1.20	0.00	-2.5 to 2.5	Pass
		710	25				0	20	3.27	0.03	0.00	-2.5 to 2.5	Pass
	3.85			1.27	0.00	-2.5 to 2.5			Pass				
	4.43			0.47	0.00	-2.5 to 2.5			Pass				
								-30	3.85	-0.40	-0.00	-2.5 to 2.5	Pass
								-20	3.85	0.69	0.00	-2.5 to 2.5	Pass
								-10	3.85	2.06	0.00	-2.5 to 2.5	Pass
								0	3.85	0.30	0.00	-2.5 to 2.5	Pass
								10	3.85	0.36	0.00	-2.5 to 2.5	Pass
								30	3.85	1.54	0.00	-2.5 to 2.5	Pass
								40	3.85	0.60	0.00	-2.5 to 2.5	Pass
								50	3.85	0.66	0.00	-2.5 to 2.5	Pass
				713.5	25	0		20	3.27	2.83	0.00	-2.5 to 2.5	Pass
	3.85	1.97	0.00				-2.5 to 2.5		Pass				
	4.43	3.73	0.01				-2.5 to 2.5		Pass				
								-30	3.85	2.32	0.00	-2.5 to 2.5	Pass
								-20	3.85	3.63	0.01	-2.5 to 2.5	Pass
								-10	3.85	3.22	0.00	-2.5 to 2.5	Pass
								0	3.85	1.83	0.00	-2.5 to 2.5	Pass
								10	3.85	3.26	0.00	-2.5 to 2.5	Pass
								30	3.85	2.65	0.00	-2.5 to 2.5	Pass
								40	3.85	3.02	0.00	-2.5 to 2.5	Pass
								50	3.85	1.66	0.00	-2.5 to 2.5	Pass



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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	0.31	0.00	-2.5 to 2.5	Pass			
					3.85	0.26	0.00	-2.5 to 2.5	Pass			
					4.43	0.59	0.00	-2.5 to 2.5	Pass			
				-30	3.85	0.66	0.00	-2.5 to 2.5	Pass			
					-20	3.85	0.63	0.00	-2.5 to 2.5	Pass		
						-10	3.85	-0.53	-0.00	-2.5 to 2.5	Pass	
				0	3.85	1.46	0.00	-2.5 to 2.5	Pass			
				10	3.85	0.97	0.00	-2.5 to 2.5	Pass			
				30	3.85	0.16	0.00	-2.5 to 2.5	Pass			
				40	3.85	0.60	0.00	-2.5 to 2.5	Pass			
				50	3.85	0.20	0.00	-2.5 to 2.5	Pass			
				710	50	0	20	3.27	0.87	0.00	-2.5 to 2.5	Pass
								3.85	1.65	0.00	-2.5 to 2.5	Pass
								4.43	0.47	0.00	-2.5 to 2.5	Pass
							-30	3.85	0.14	0.00	-2.5 to 2.5	Pass
	-20	3.85	0.17					0.00	-2.5 to 2.5	Pass		
		-10	3.85					1.59	0.00	-2.5 to 2.5	Pass	
	0	3.85	0.86				0.00	-2.5 to 2.5	Pass			
	10	3.85	1.30				0.00	-2.5 to 2.5	Pass			
	30	3.85	2.06				0.00	-2.5 to 2.5	Pass			
	40	3.85	1.57				0.00	-2.5 to 2.5	Pass			
	50	3.85	-1.53				-0.00	-2.5 to 2.5	Pass			
	711	50	0				20	3.27	-0.51	-0.00	-2.5 to 2.5	Pass
								3.85	-1.40	-0.00	-2.5 to 2.5	Pass
								4.43	0.17	0.00	-2.5 to 2.5	Pass
							-30	3.85	-0.84	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-0.97		-0.00	-2.5 to 2.5	Pass		
					-10	3.85		0.33	0.00	-2.5 to 2.5	Pass	
				0	3.85	-1.79	-0.00	-2.5 to 2.5	Pass			
				10	3.85	-0.97	-0.00	-2.5 to 2.5	Pass			
30				3.85	-0.96	-0.00	-2.5 to 2.5	Pass				
40				3.85	-0.67	-0.00	-2.5 to 2.5	Pass				
50				3.85	-0.92	-0.00	-2.5 to 2.5	Pass				
16QAM				709	50	0	20	3.27	-0.16	-0.00	-2.5 to 2.5	Pass
								3.85	-0.89	-0.00	-2.5 to 2.5	Pass
								4.43	-0.04	-0.00	-2.5 to 2.5	Pass
							-30	3.85	-1.56	-0.00	-2.5 to 2.5	Pass
	-20	3.85	-0.44					-0.00	-2.5 to 2.5	Pass		
		-10	3.85					-0.23	-0.00	-2.5 to 2.5	Pass	
	0	3.85	-0.31				-0.00	-2.5 to 2.5	Pass			



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				10	3.85	0.33	0.00	-2.5 to 2.5	Pass			
				30	3.85	-0.63	-0.00	-2.5 to 2.5	Pass			
				40	3.85	-0.92	-0.00	-2.5 to 2.5	Pass			
				50	3.85	-1.20	-0.00	-2.5 to 2.5	Pass			
	710	50	0	20	3.27	0.77	0.00	-2.5 to 2.5	Pass			
3.85					0.41	0.00	-2.5 to 2.5	Pass				
4.43					-0.74	-0.00	-2.5 to 2.5	Pass				
							-30	3.85	-0.27	-0.00	-2.5 to 2.5	Pass
							-20	3.85	-0.44	-0.00	-2.5 to 2.5	Pass
							-10	3.85	1.03	0.00	-2.5 to 2.5	Pass
							0	3.85	-0.70	-0.00	-2.5 to 2.5	Pass
							10	3.85	0.67	0.00	-2.5 to 2.5	Pass
							30	3.85	-0.53	-0.00	-2.5 to 2.5	Pass
							40	3.85	0.64	0.00	-2.5 to 2.5	Pass
							50	3.85	0.01	0.00	-2.5 to 2.5	Pass
				711	50	0	20	3.27	-0.82	-0.00	-2.5 to 2.5	Pass
3.85	0.29	0.00	-2.5 to 2.5					Pass				
4.43	-1.12	-0.00	-2.5 to 2.5					Pass				
							-30	3.85	-0.79	-0.00	-2.5 to 2.5	Pass
							-20	3.85	-2.20	-0.00	-2.5 to 2.5	Pass
							-10	3.85	-0.69	-0.00	-2.5 to 2.5	Pass
							0	3.85	-1.76	-0.00	-2.5 to 2.5	Pass
							10	3.85	-1.19	-0.00	-2.5 to 2.5	Pass
							30	3.85	-0.34	-0.00	-2.5 to 2.5	Pass
							40	3.85	-2.07	-0.00	-2.5 to 2.5	Pass
							50	3.85	-1.36	-0.00	-2.5 to 2.5	Pass



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### 3. Modulation Characteristics

#### 3.1 B17\_5MHz

##### 3.1.1 Test Result

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



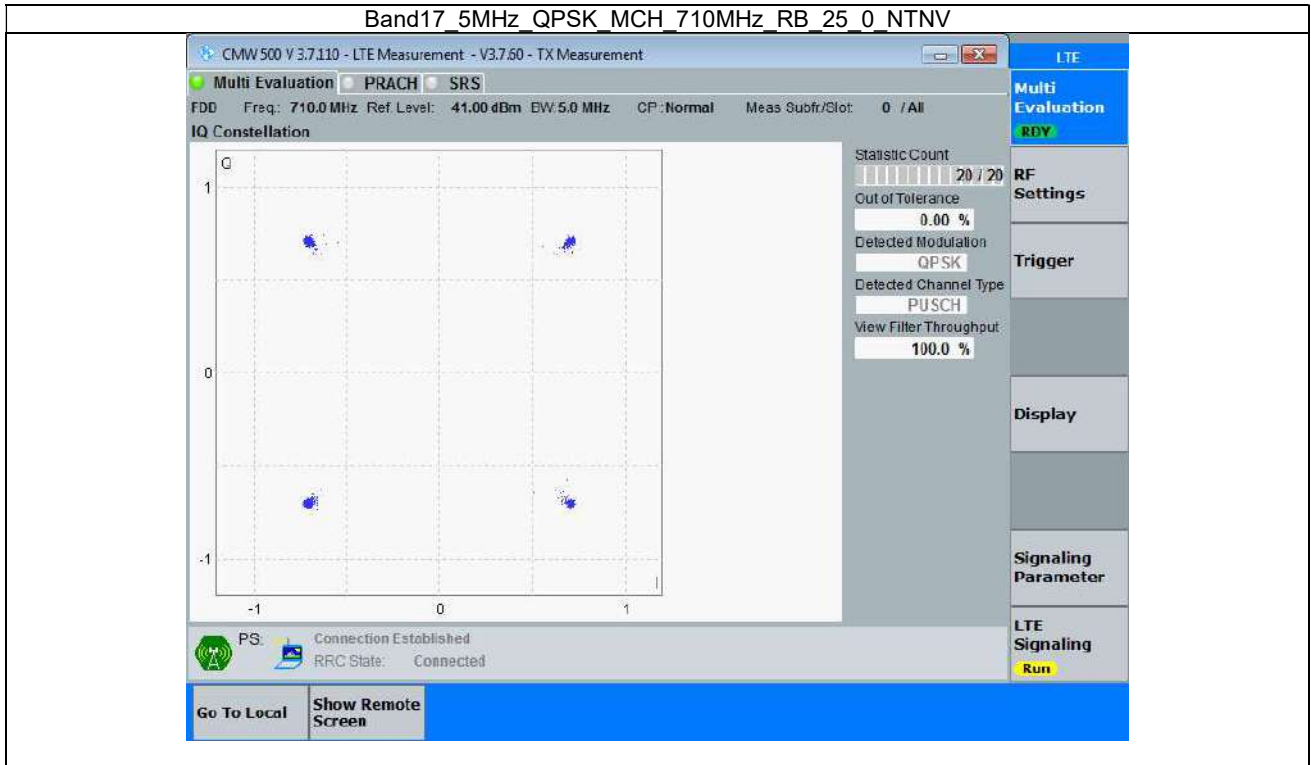
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### 3.1.2 Test Graph



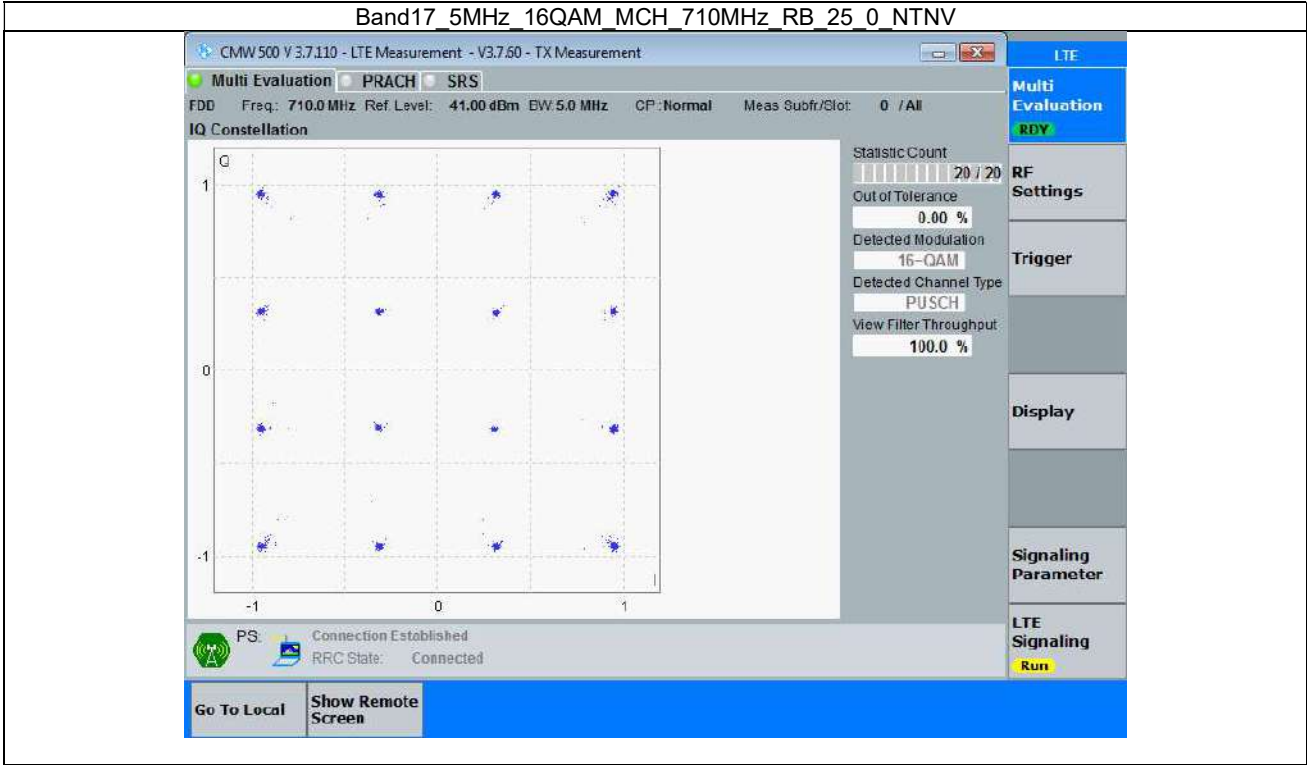
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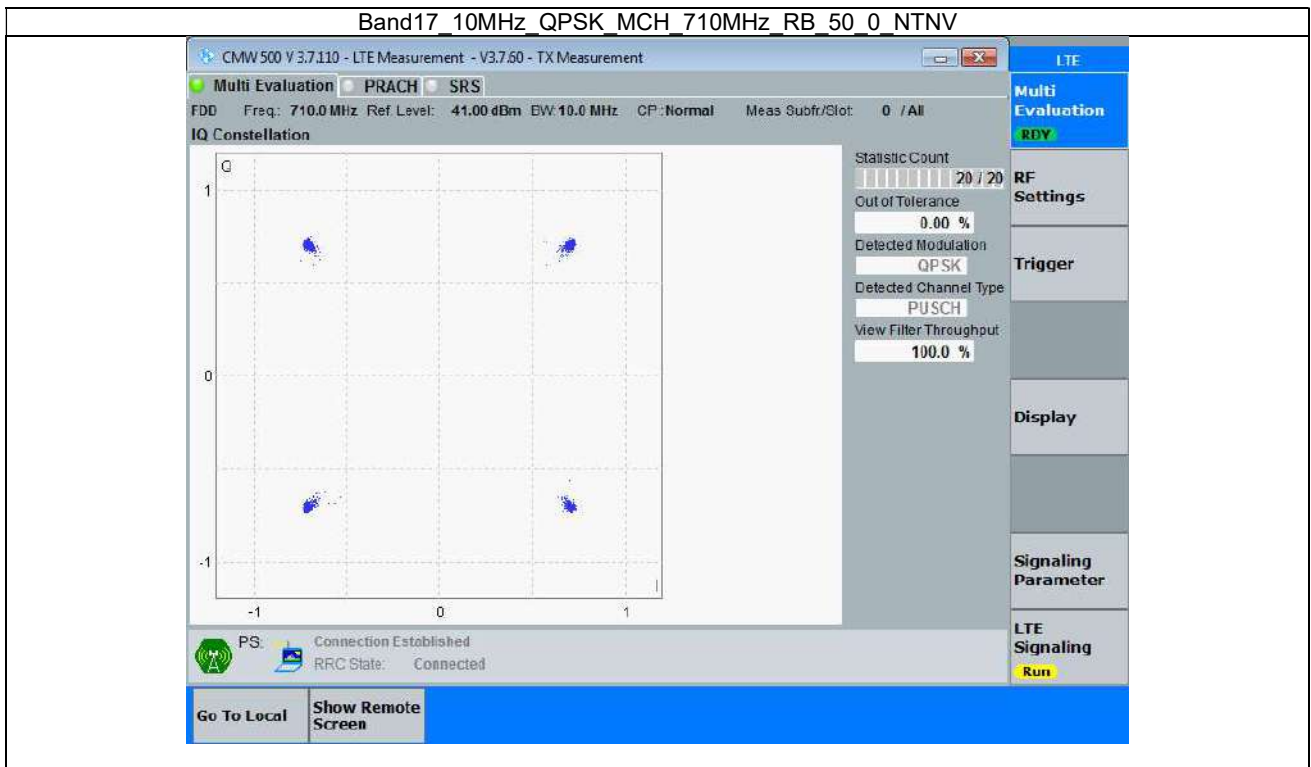
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### 3.2 B17\_10MHz

#### 3.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTN						
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

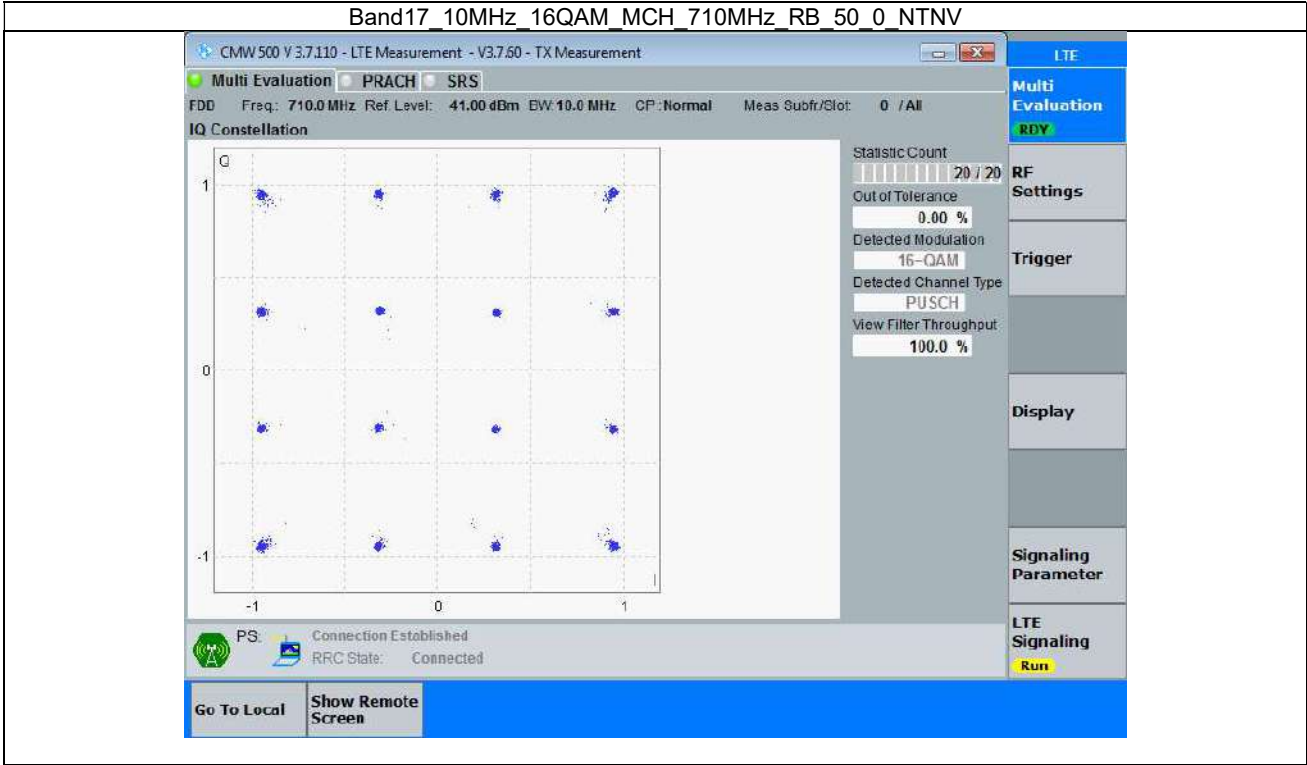


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## 4. 99% & 26dB Bandwidth

### 4.1 Band17\_OBW

#### 4.1.1 Test Result

Band: 17 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	706.5	25	0	4.554	Pass
		710	25	0	4.556	Pass
		713.5	25	0	4.571	Pass
	16QAM	706.5	25	0	4.592	Pass
		710	25	0	4.570	Pass
		713.5	25	0	4.548	Pass
10	QPSK	709	50	0	9.079	Pass
		710	50	0	9.051	Pass
		711	50	0	9.053	Pass
	16QAM	709	50	0	9.051	Pass
		710	50	0	9.047	Pass
		711	50	0	9.041	Pass



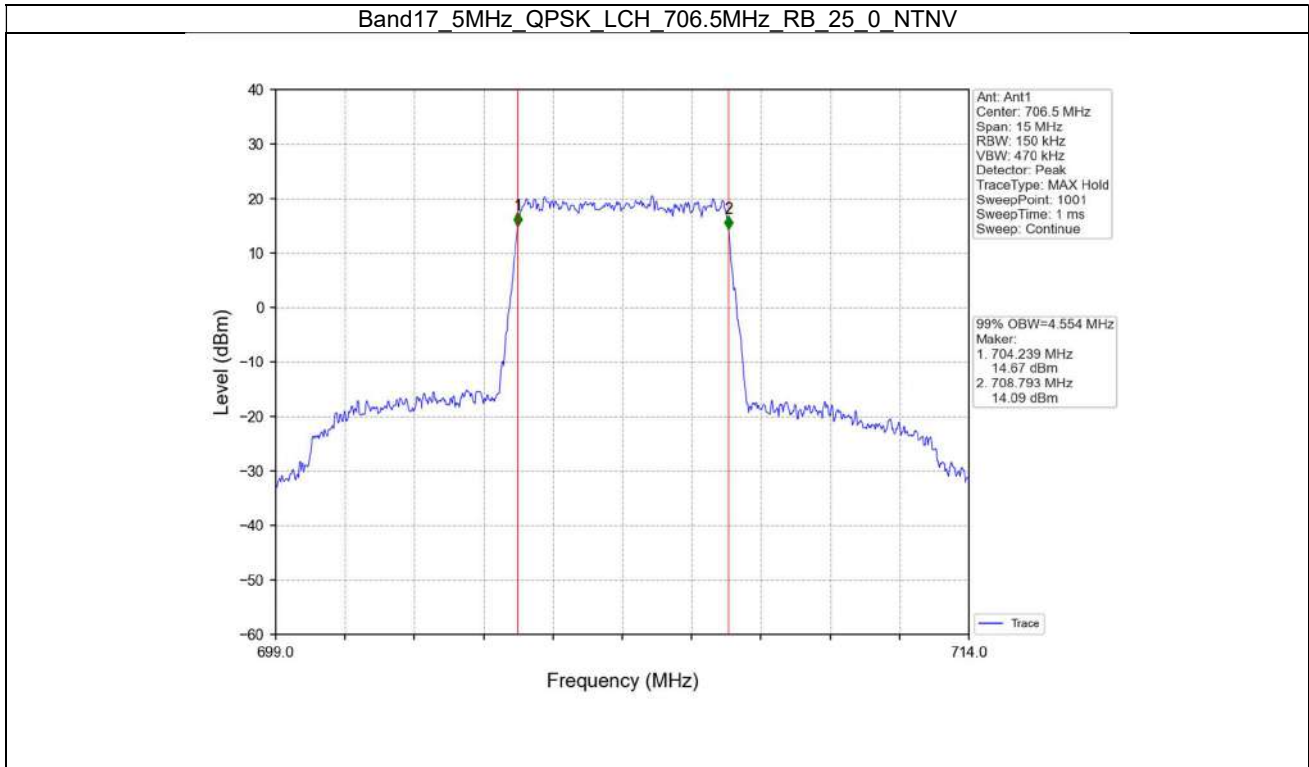
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### 4.1.2 Test Graph



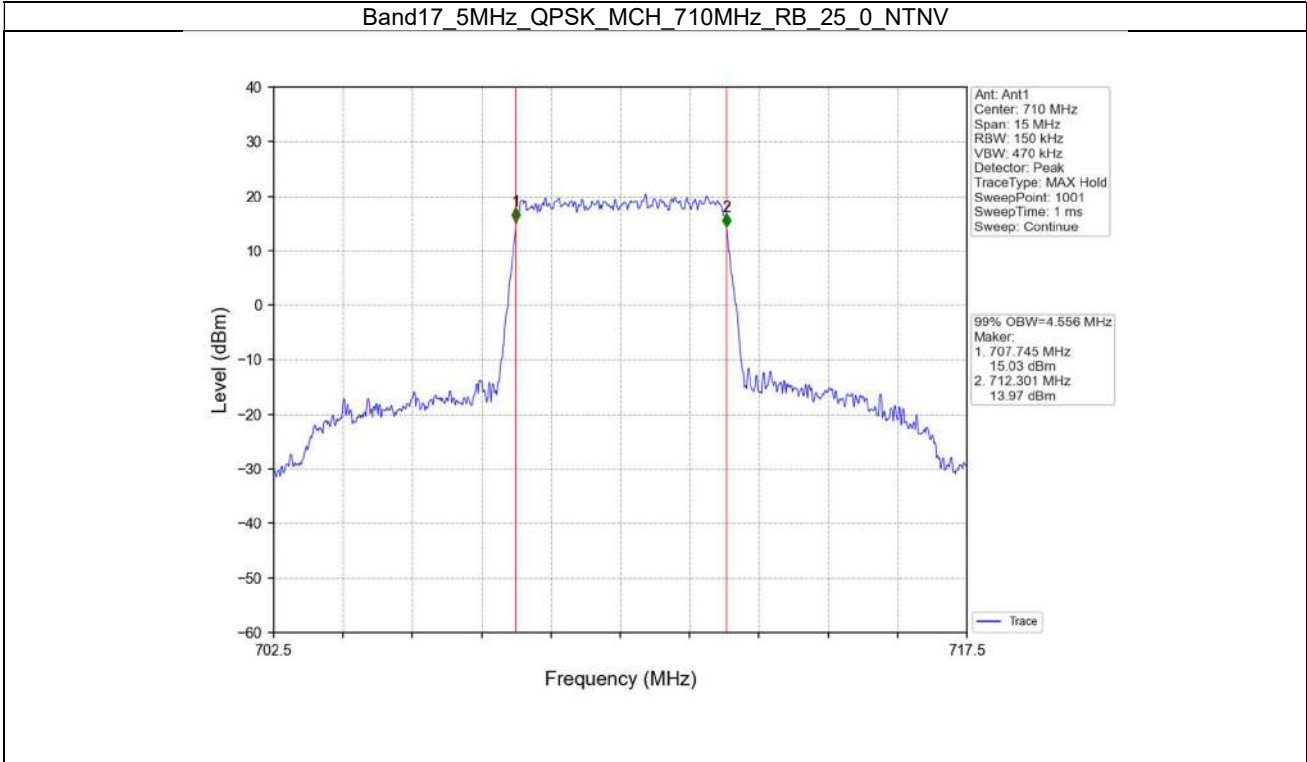
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Band17\_5MHz\_QPSK\_MCH\_710MHz\_RB\_25\_0\_NTNV



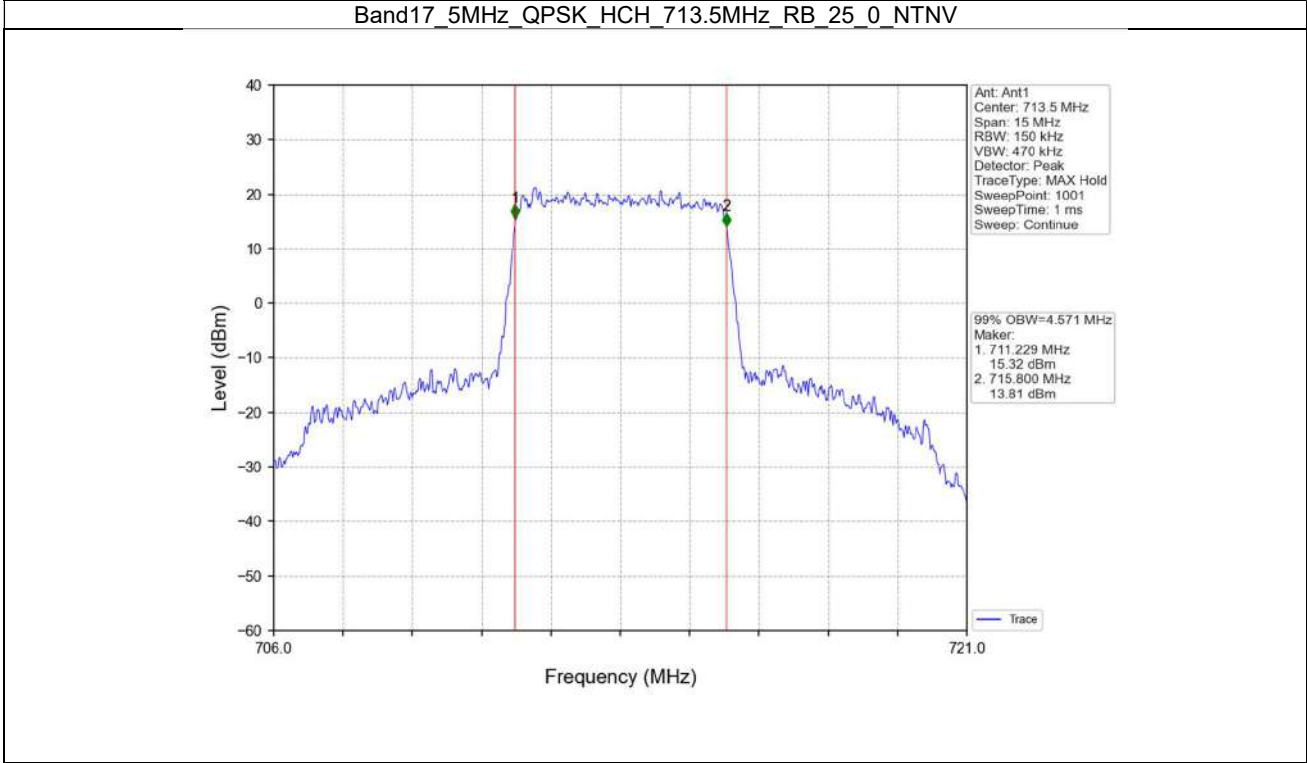
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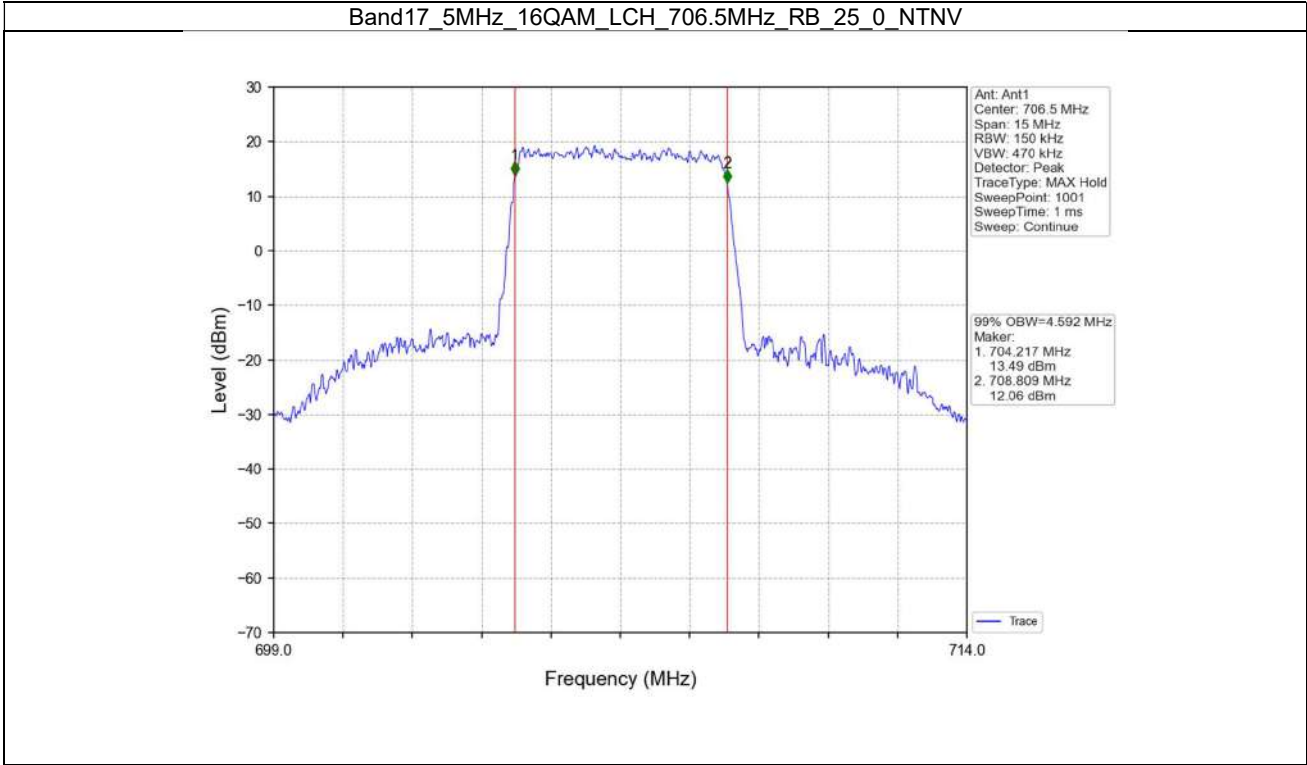
Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



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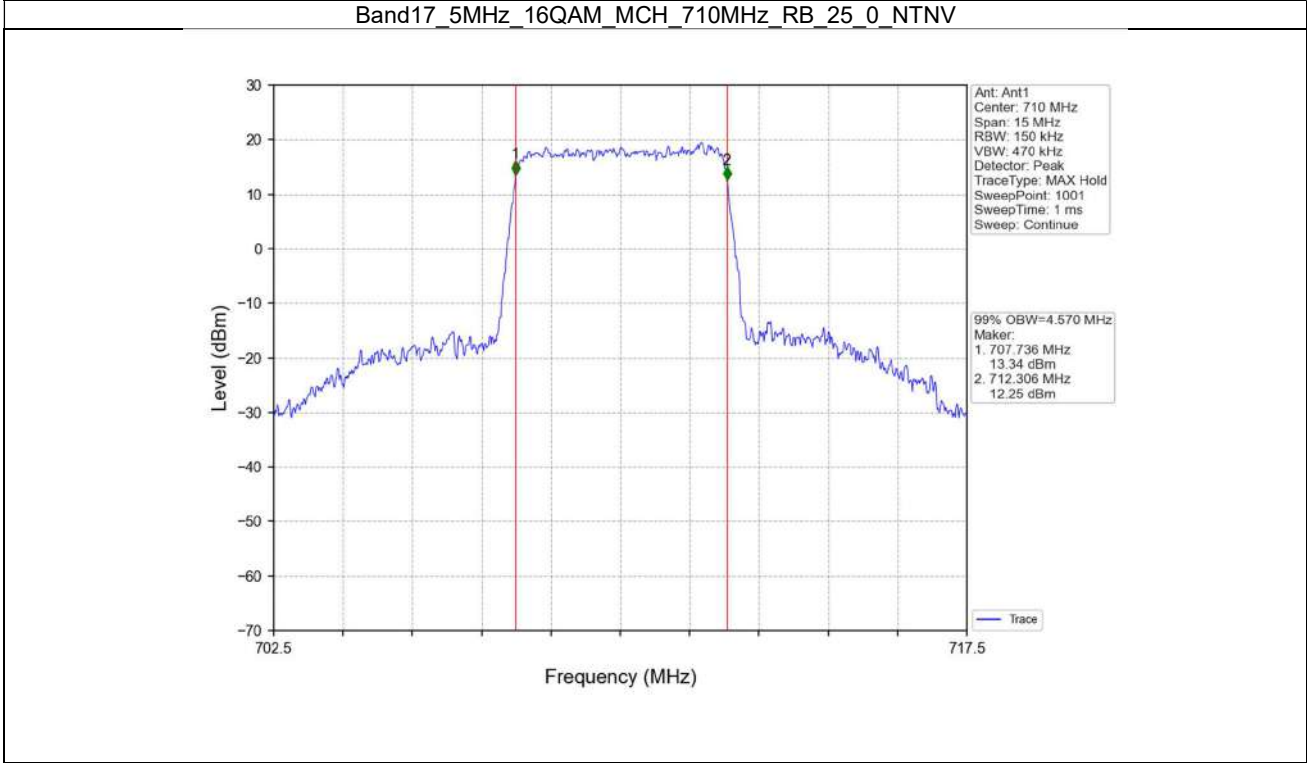
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Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



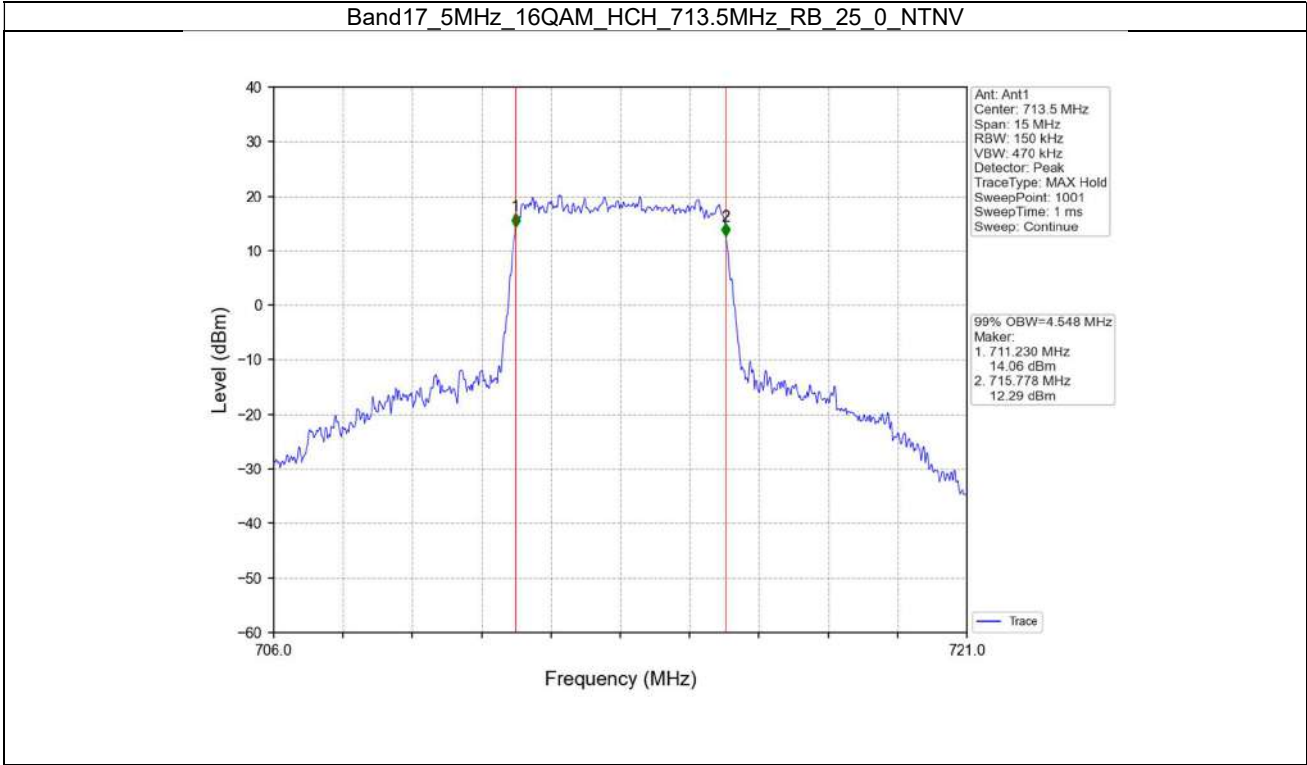
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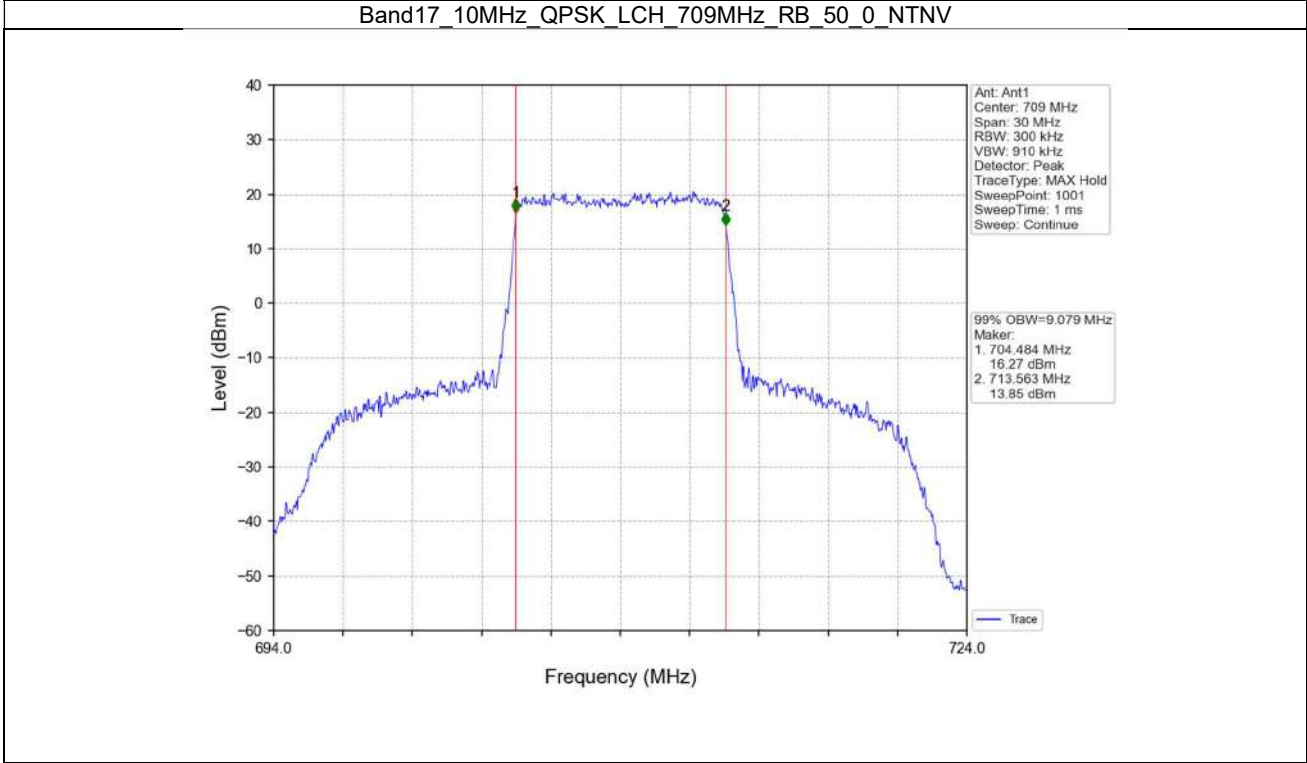


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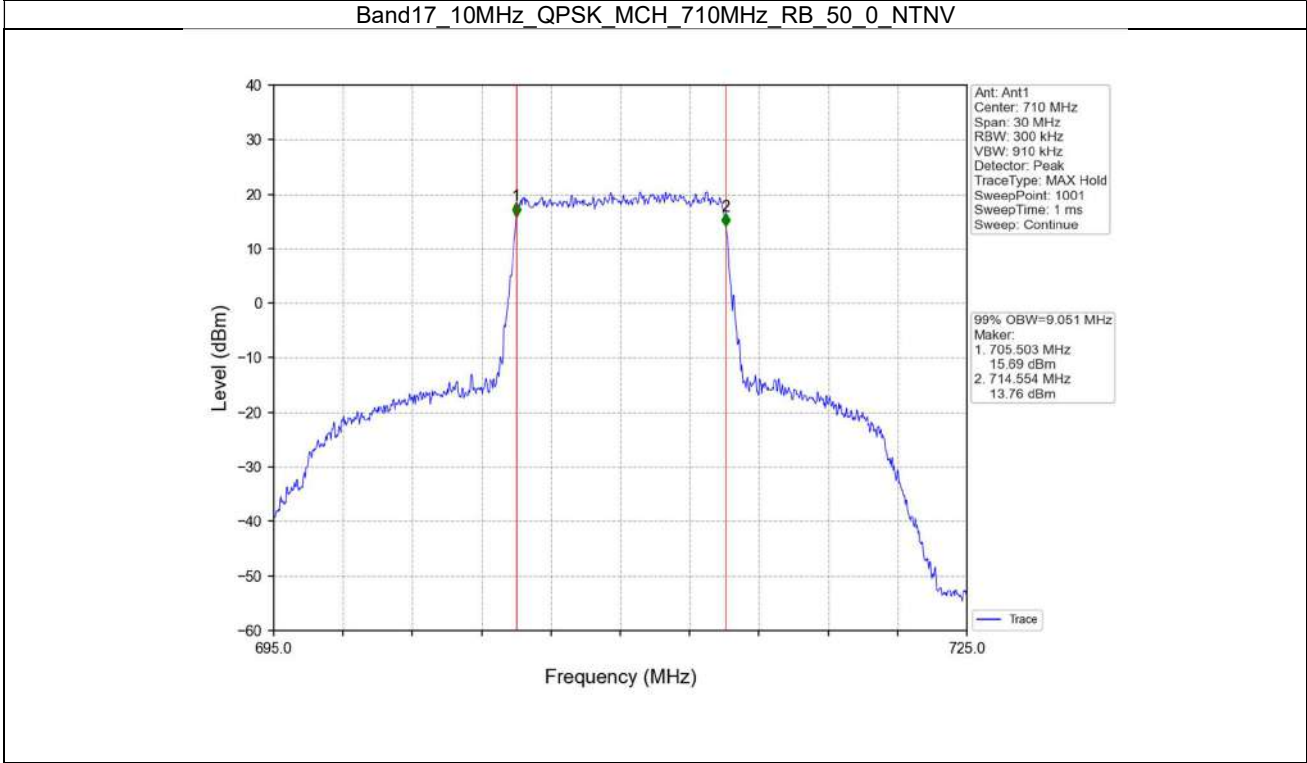


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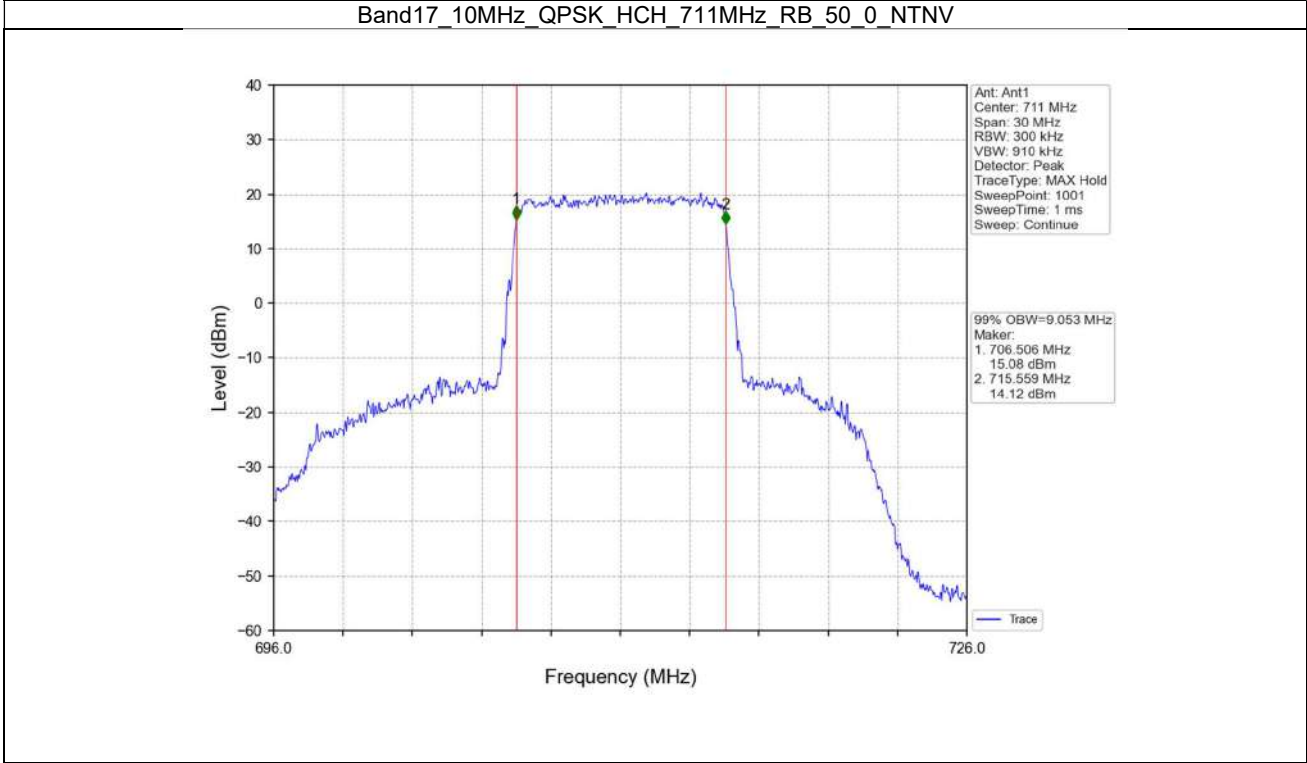


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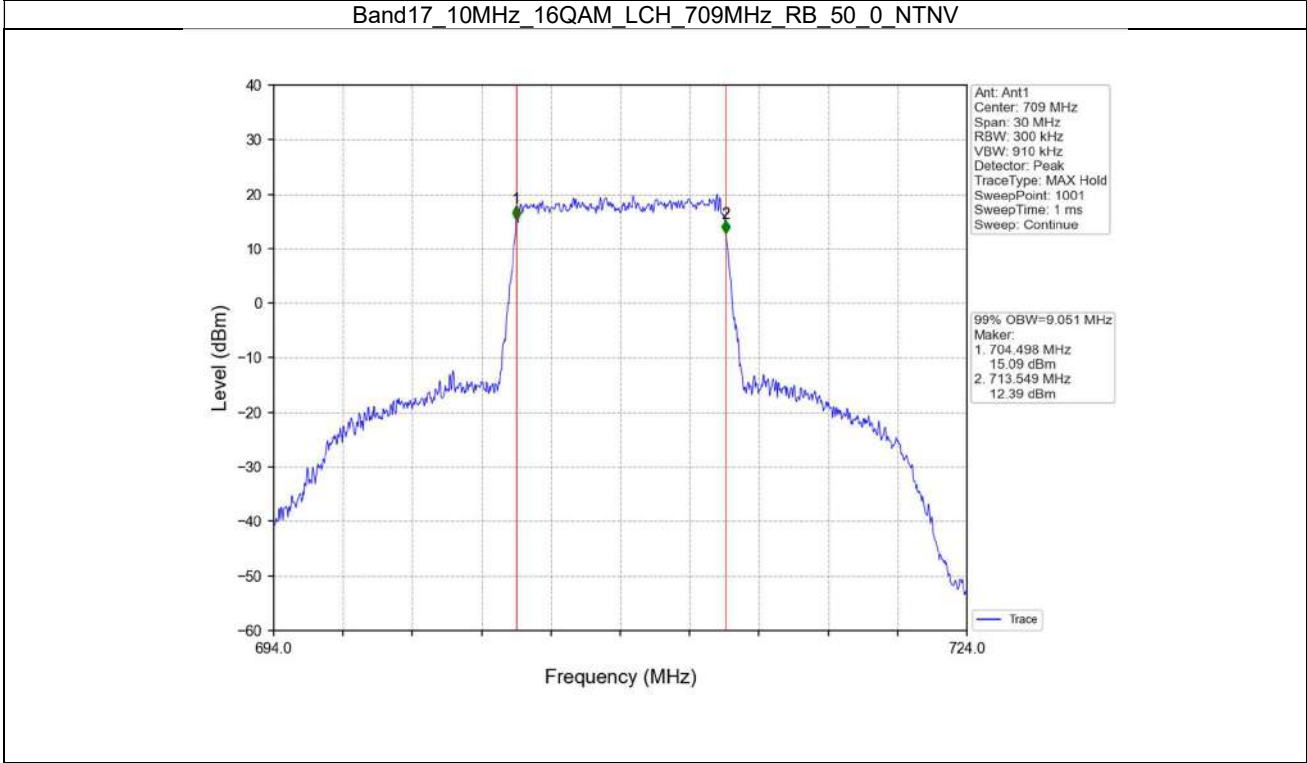


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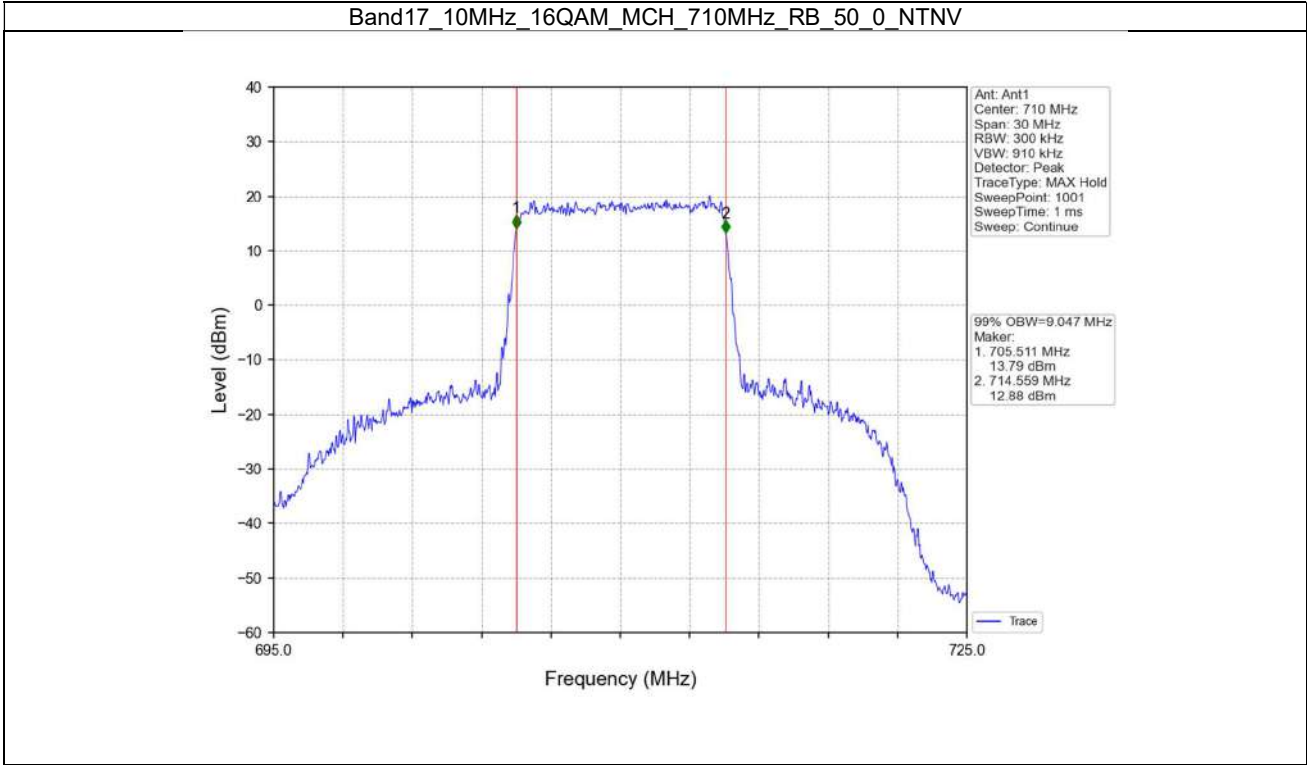
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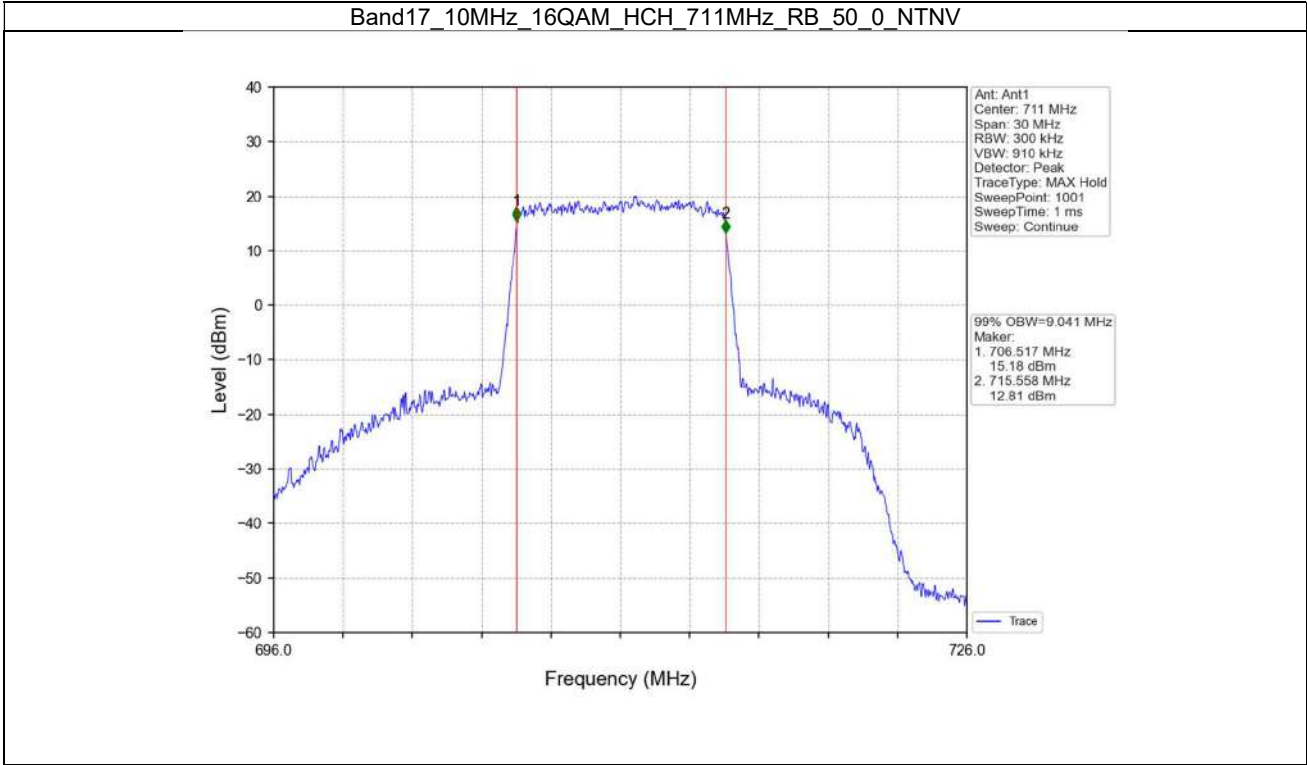
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## 4.2 Band17\_XDB

### 4.2.1 Test Result

Band: 17 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	706.5	25	0	5.087	Pass
		710	25	0	5.078	Pass
		713.5	25	0	5.066	Pass
	16QAM	706.5	25	0	5.096	Pass
		710	25	0	5.119	Pass
		713.5	25	0	5.058	Pass
10	QPSK	709	50	0	10.120	Pass
		710	50	0	10.092	Pass
		711	50	0	10.012	Pass
	16QAM	709	50	0	10.022	Pass
		710	50	0	9.931	Pass
		711	50	0	10.008	Pass



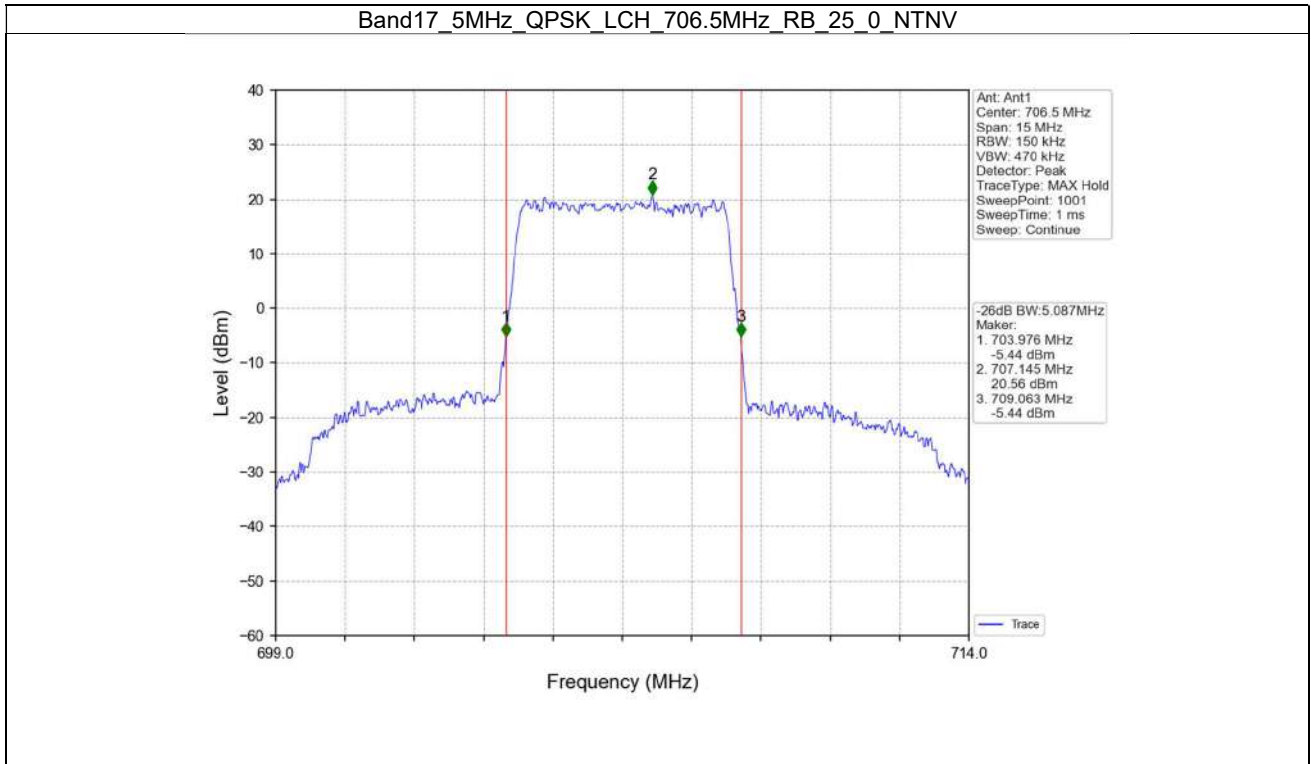
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### 4.2.2 Test Graph



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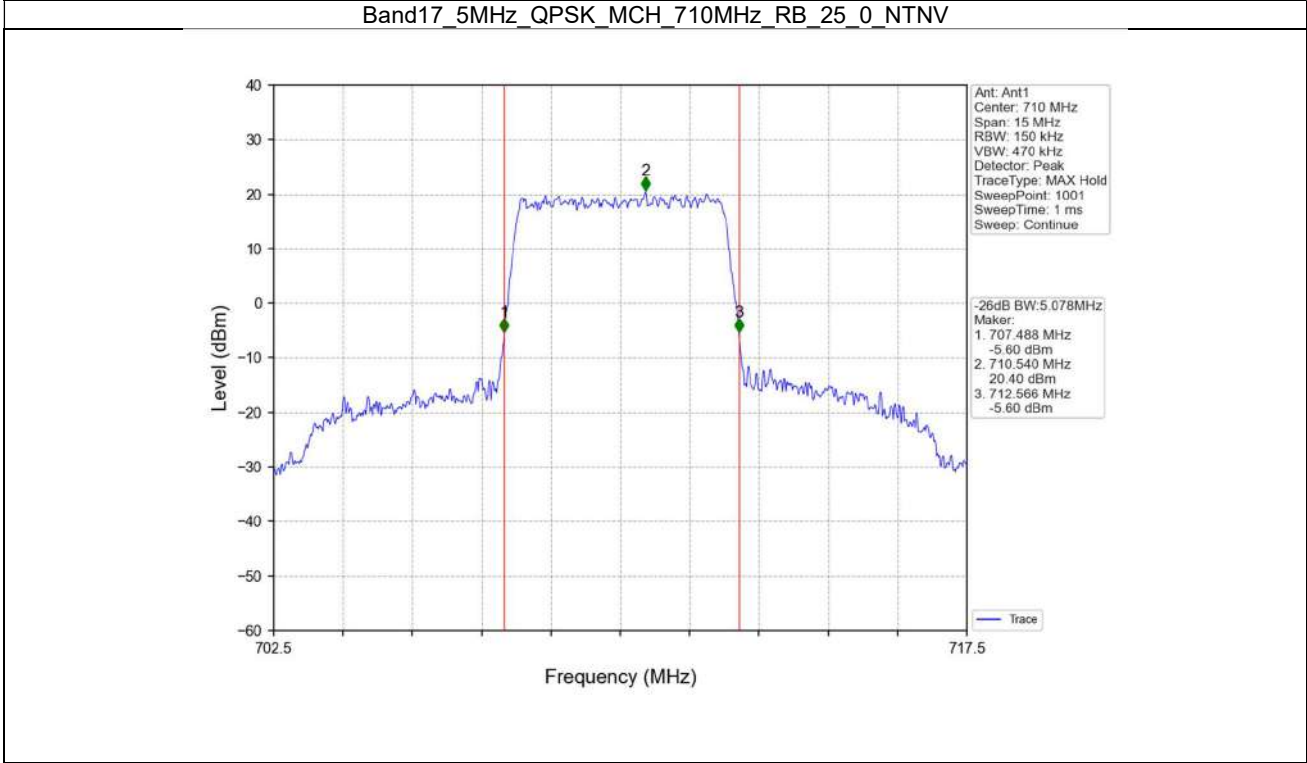
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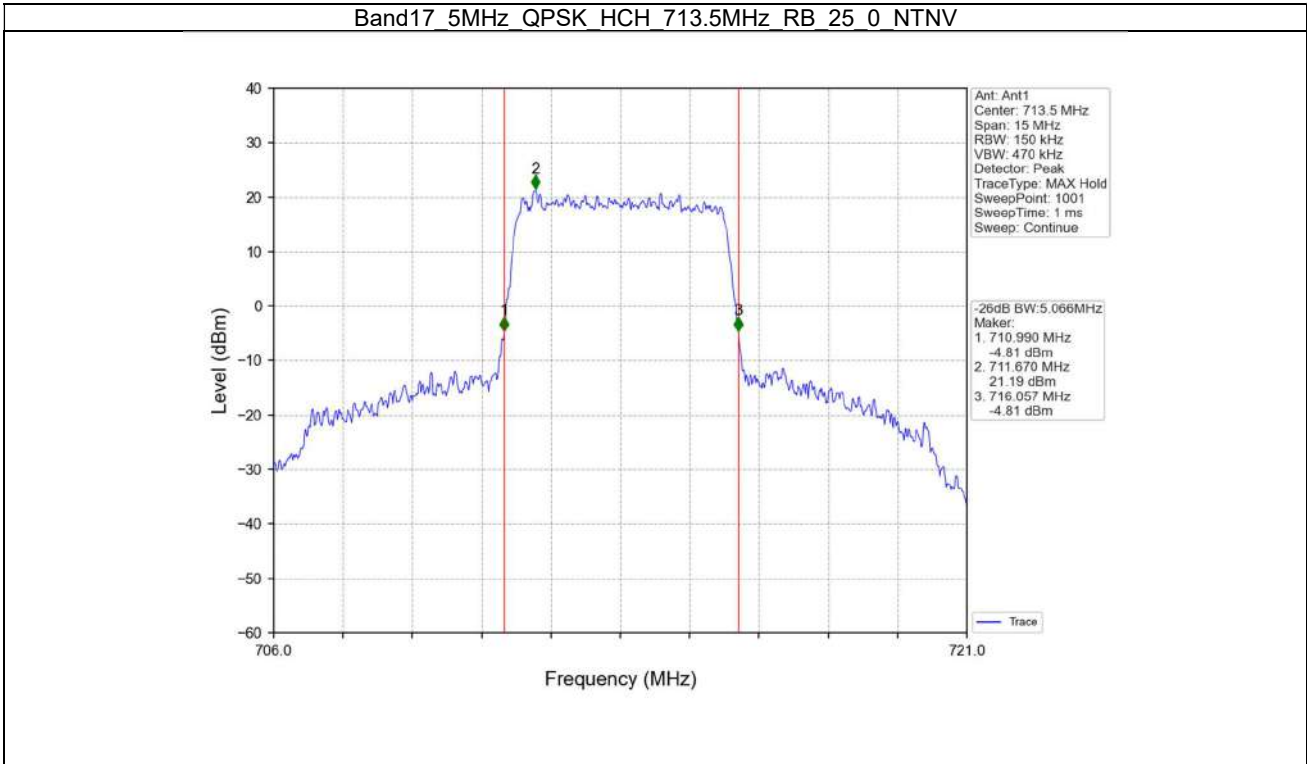
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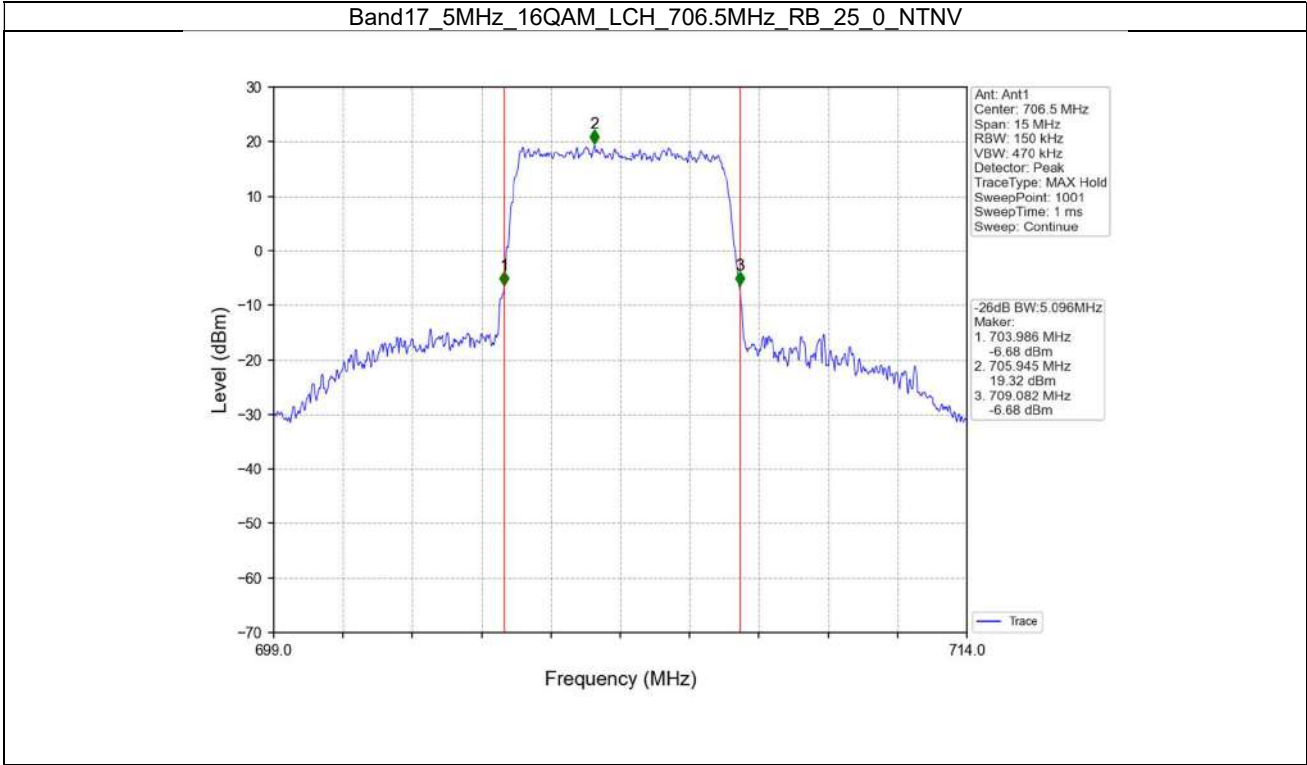
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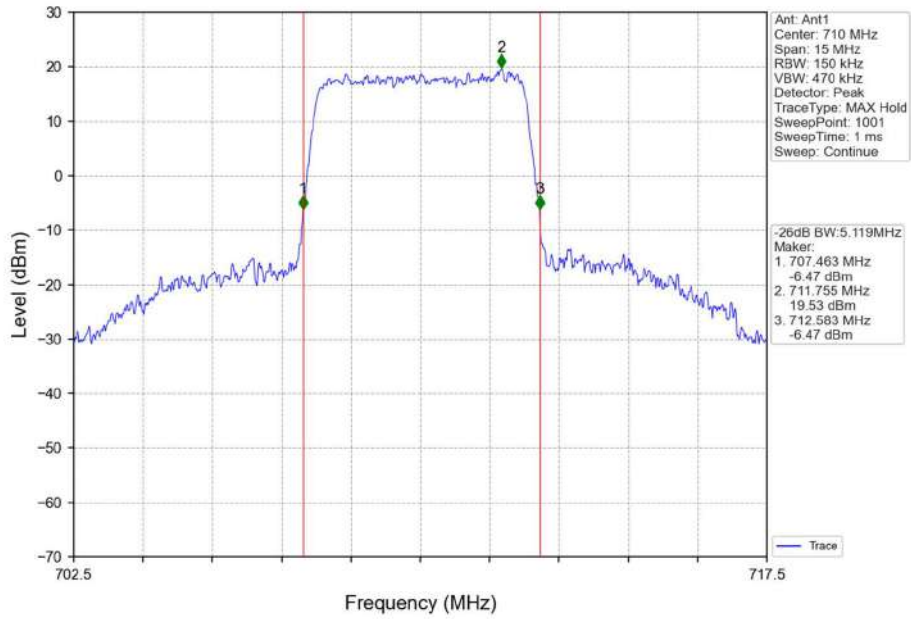
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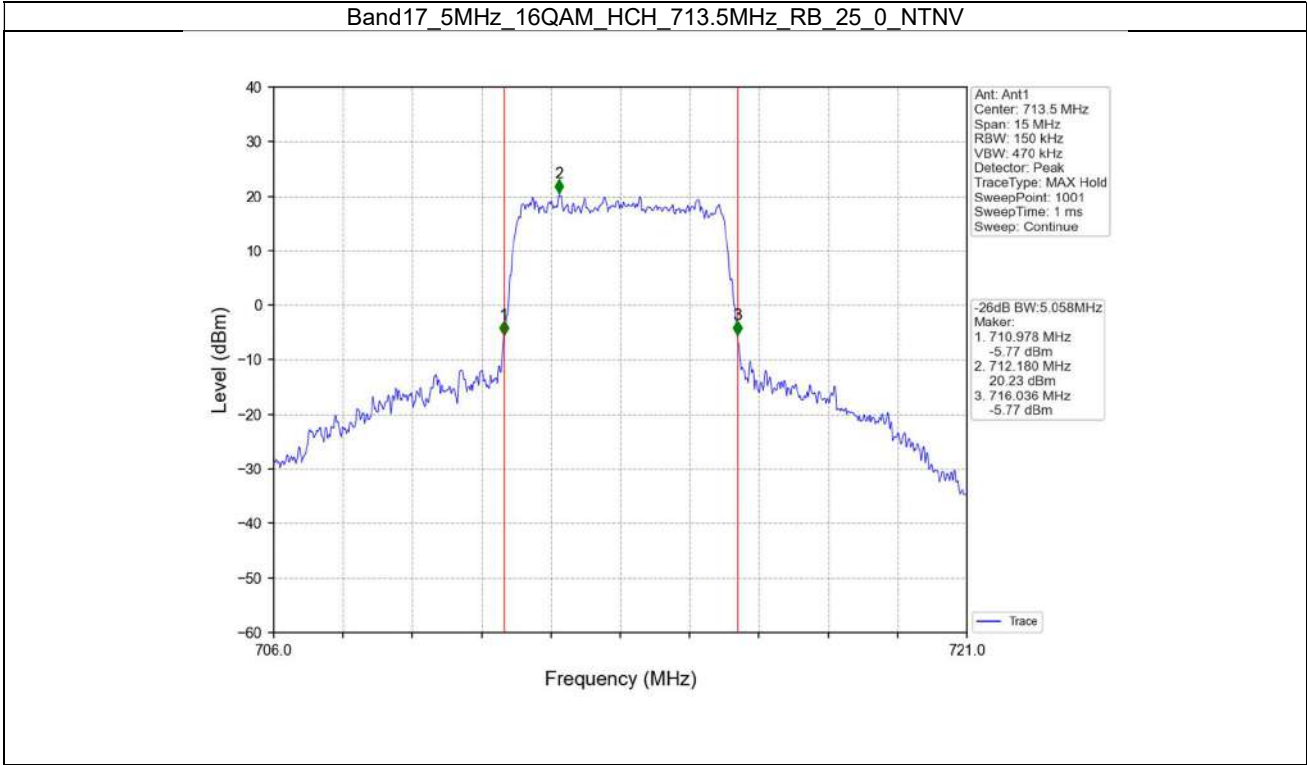


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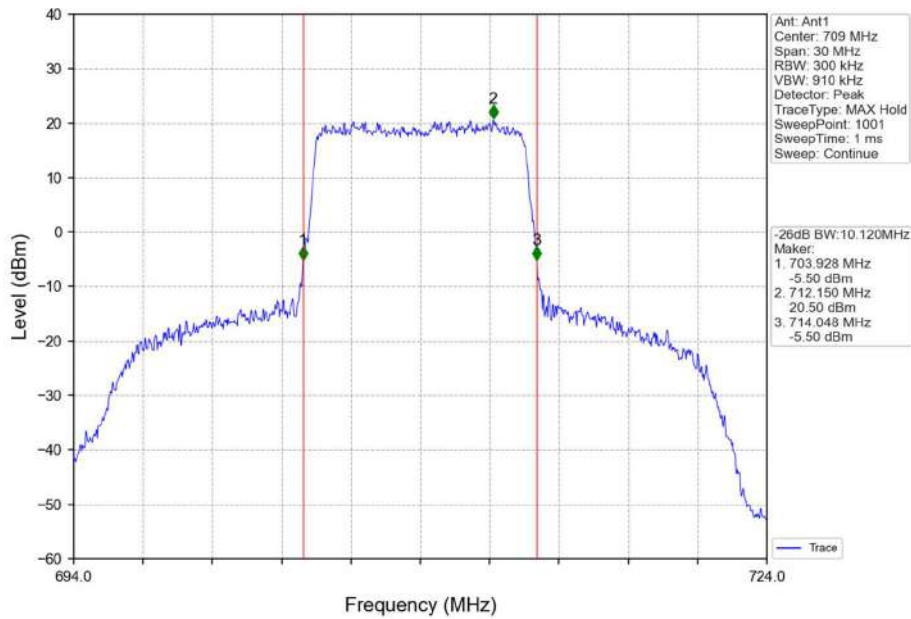


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Band17 10MHz QPSK LCH 709MHz RB 50 0 NTN



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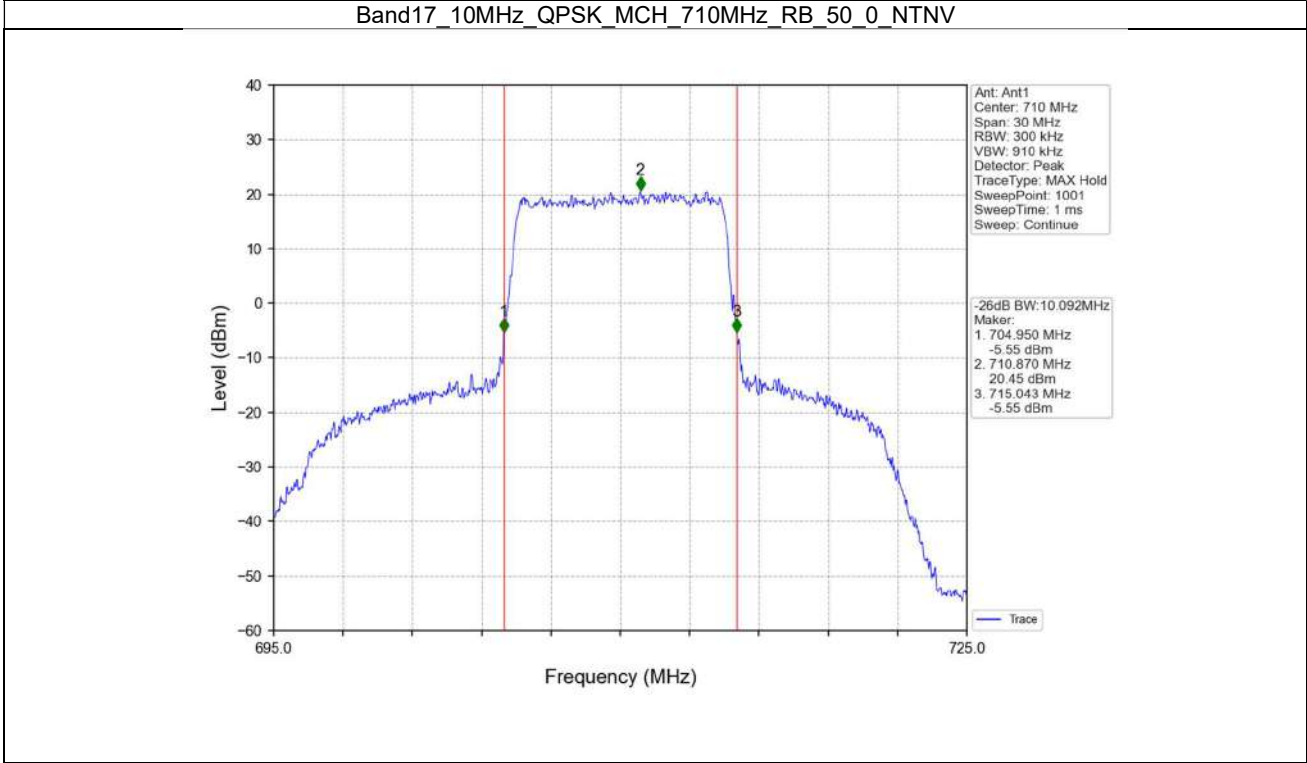
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Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_50\_0\_NTNV

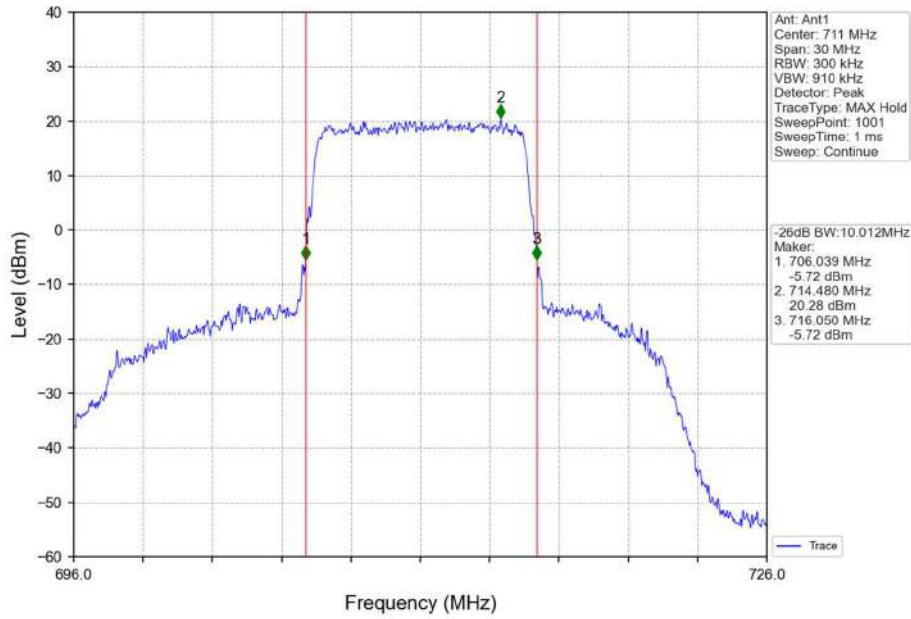


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Band17 10MHz QPSK HCH 711MHz RB 50 0 NTN



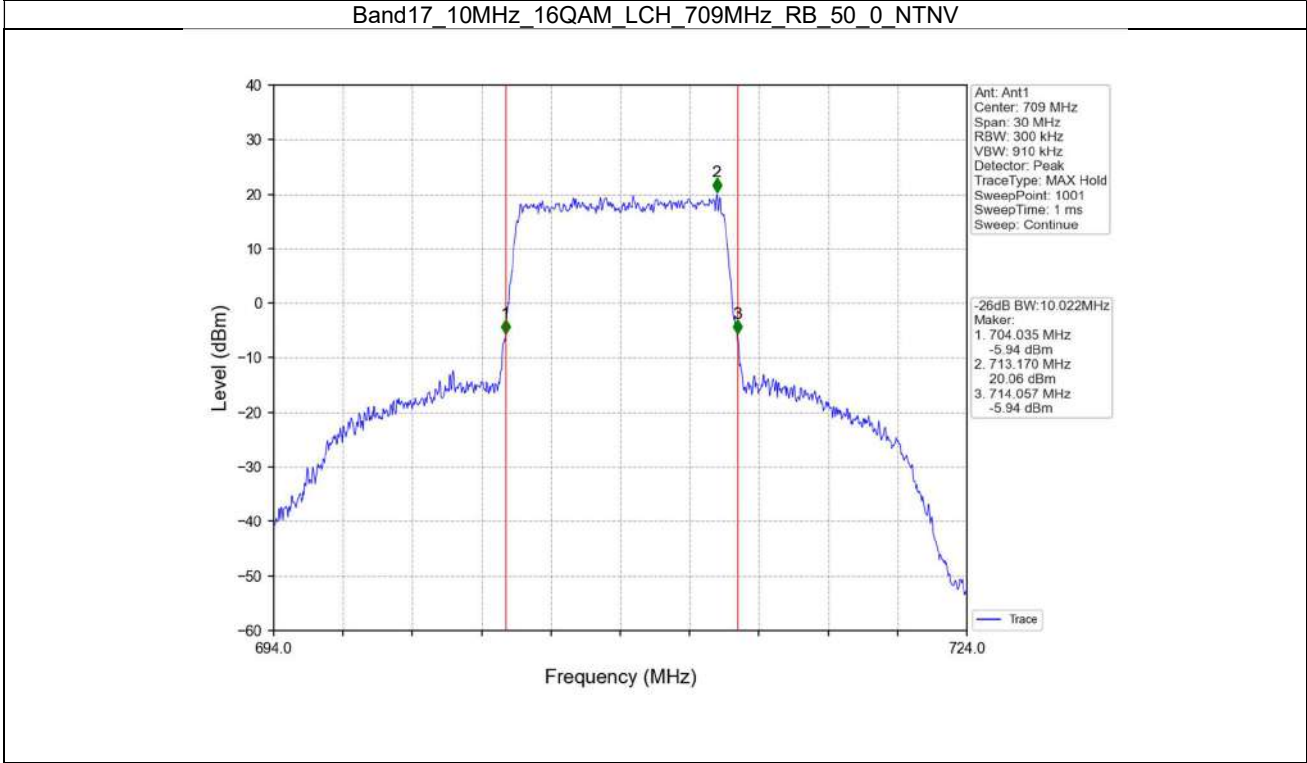
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Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



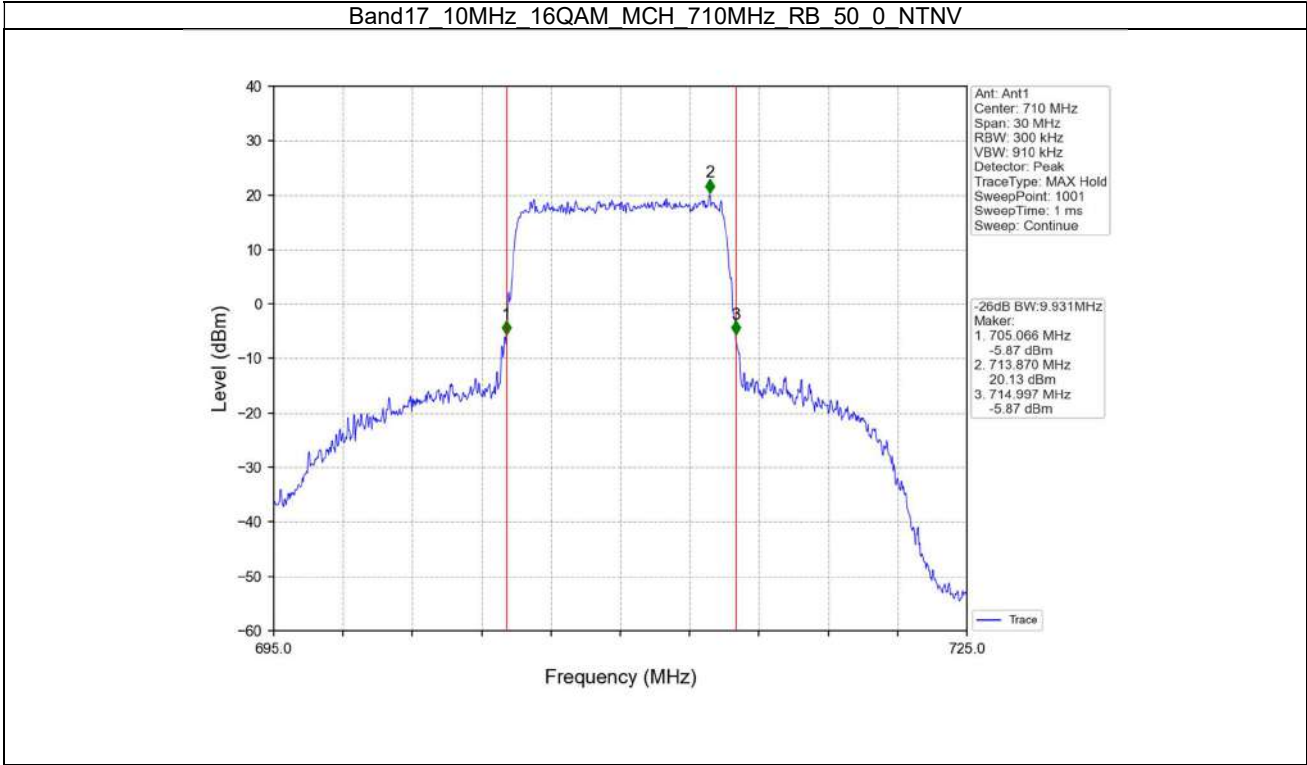
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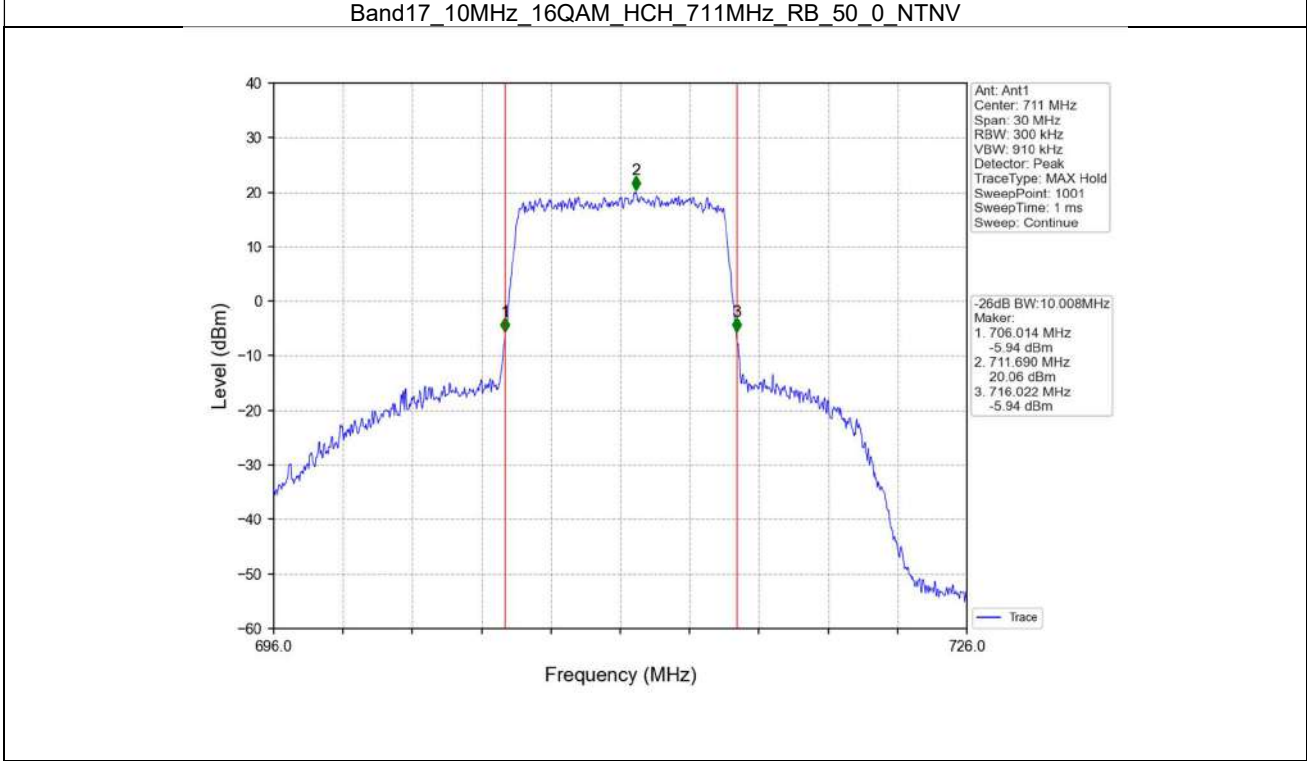


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Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



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## 5. Peak-Average Ratio

### 5.1 B17\_5MHz

#### 5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.38	<=13	Pass
	710	25	0	5.30	<=13	Pass
	713.5	25	0	4.99	<=13	Pass
16QAM	706.5	25	0	6.14	<=13	Pass
	710	25	0	5.99	<=13	Pass
	713.5	25	0	5.64	<=13	Pass



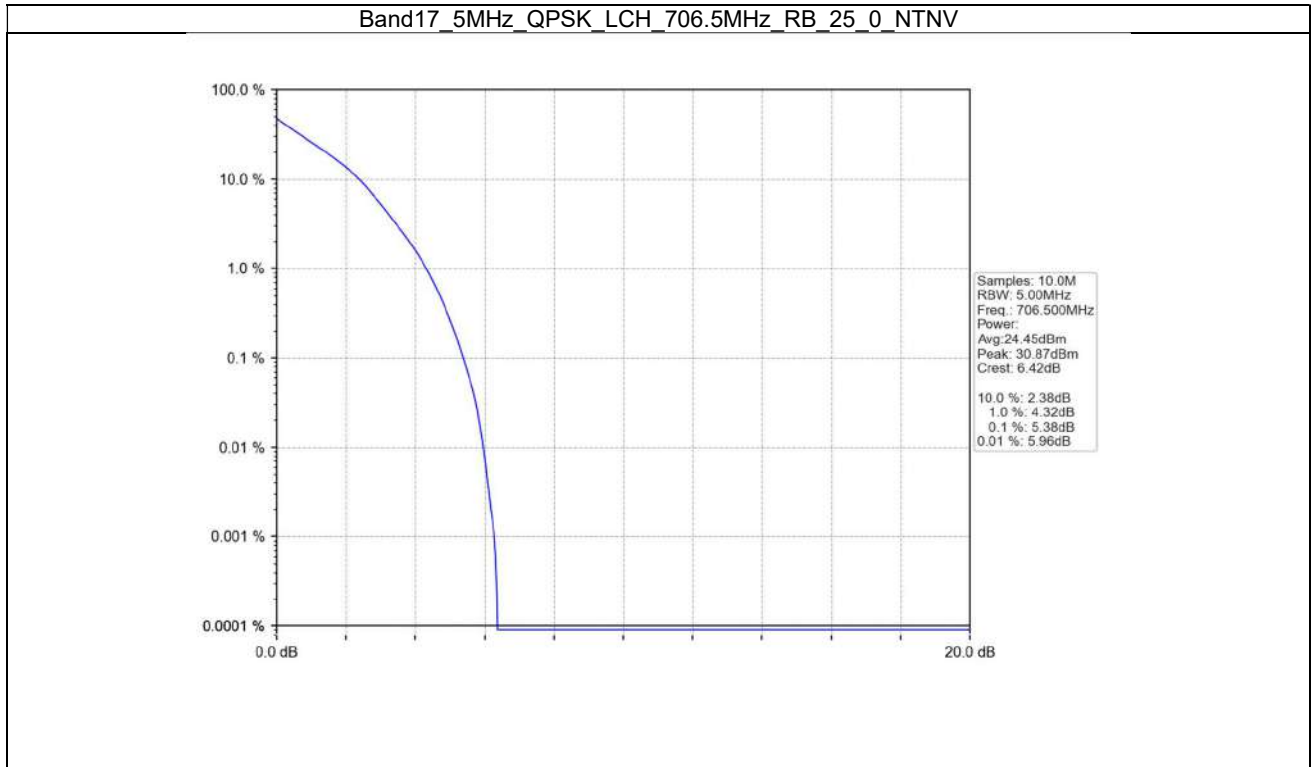
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### 5.1.2 Test Graph



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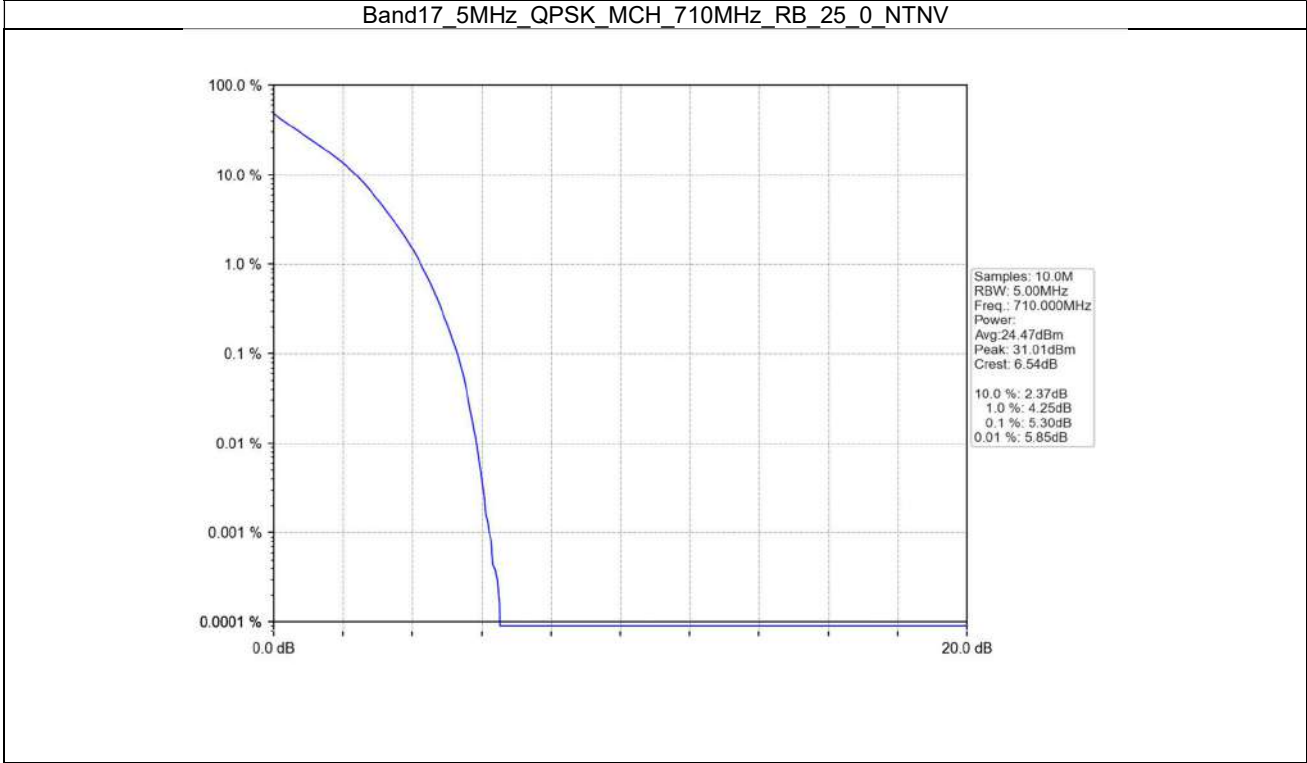
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Band17\_5MHz\_QPSK\_MCH\_710MHz\_RB\_25\_0\_NTNV



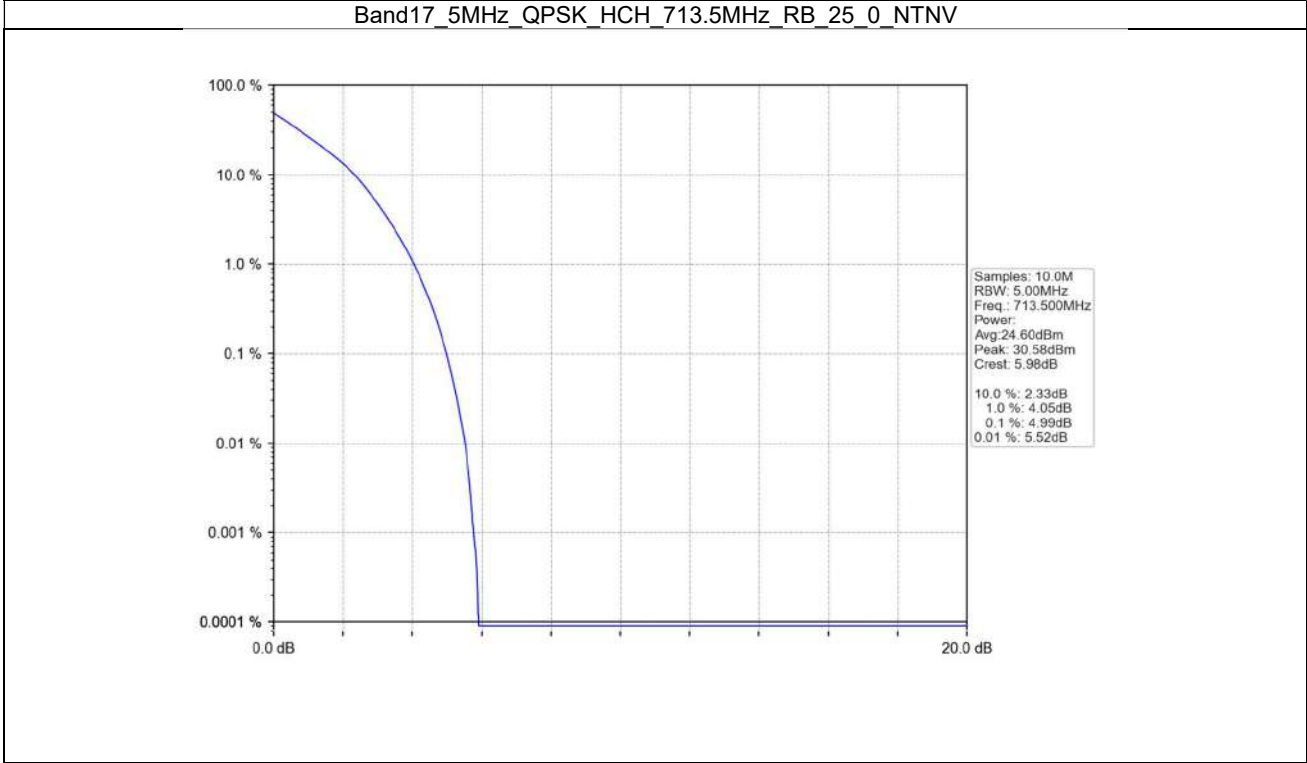
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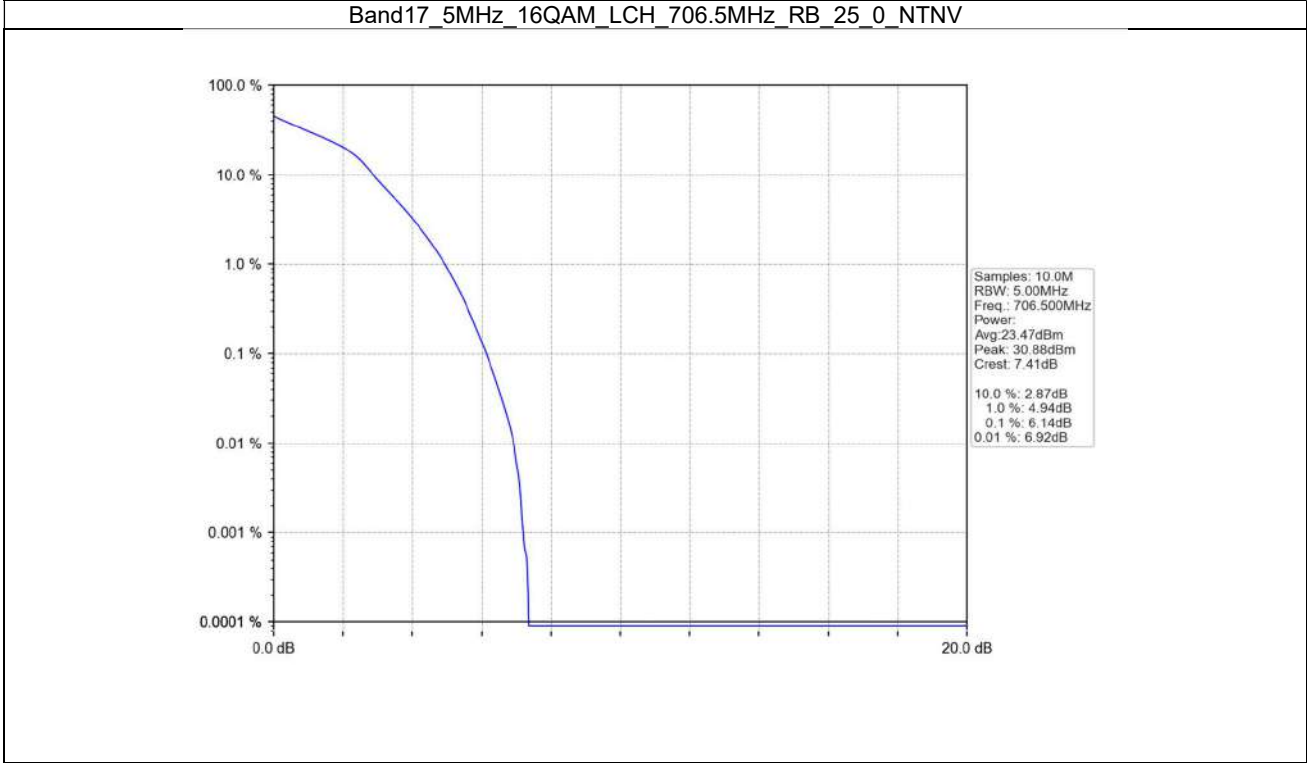


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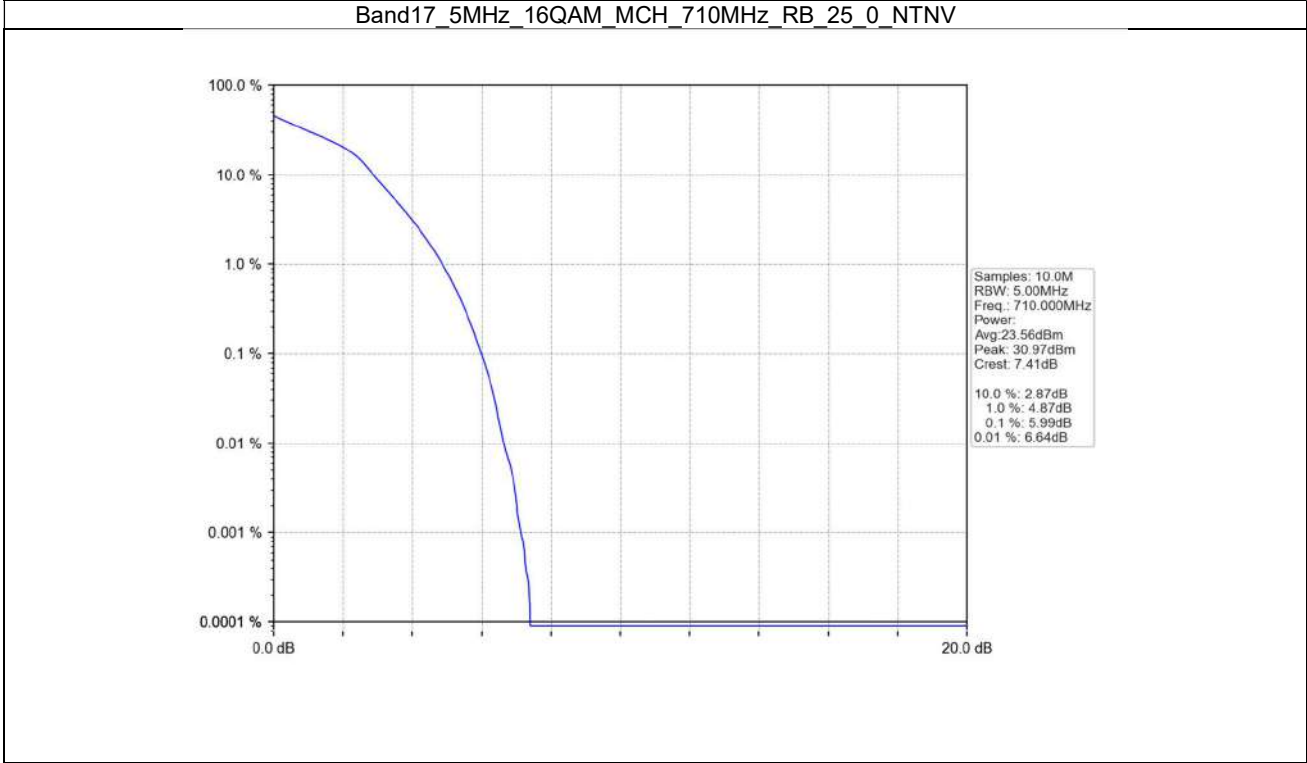


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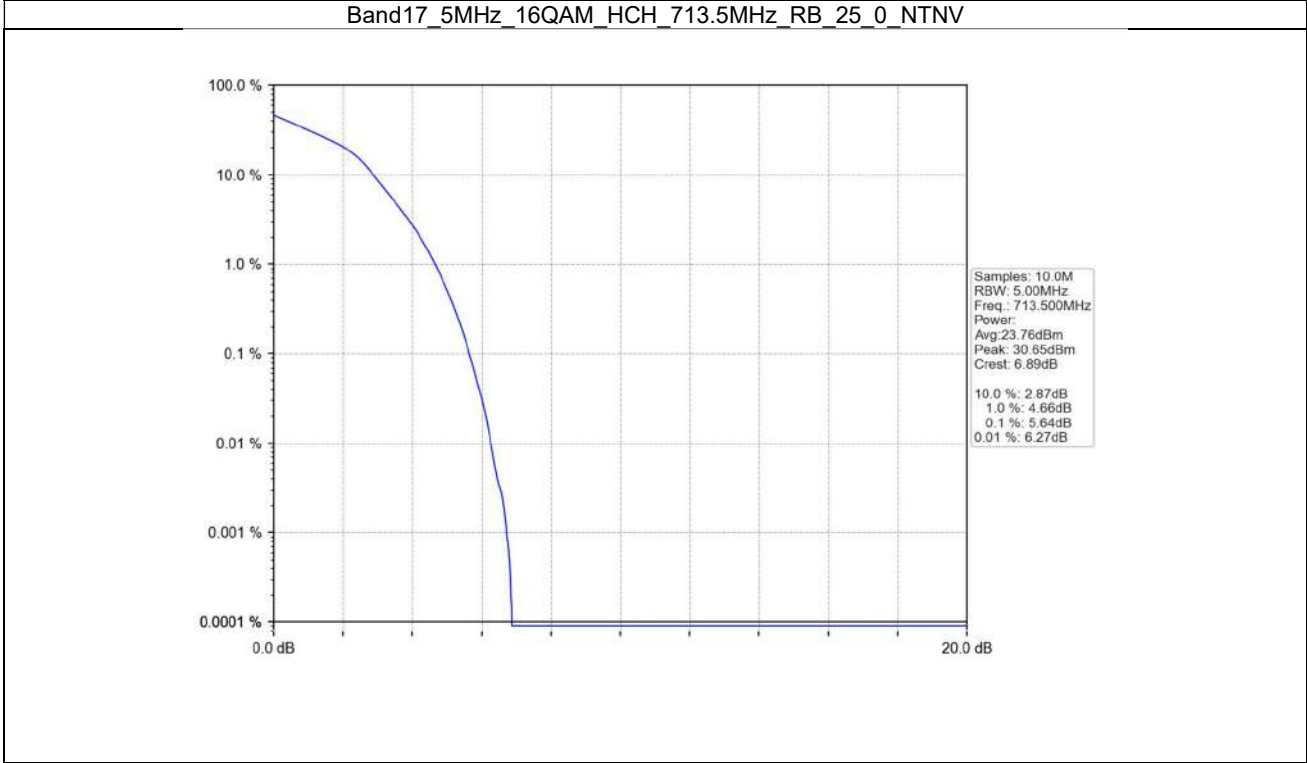


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Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



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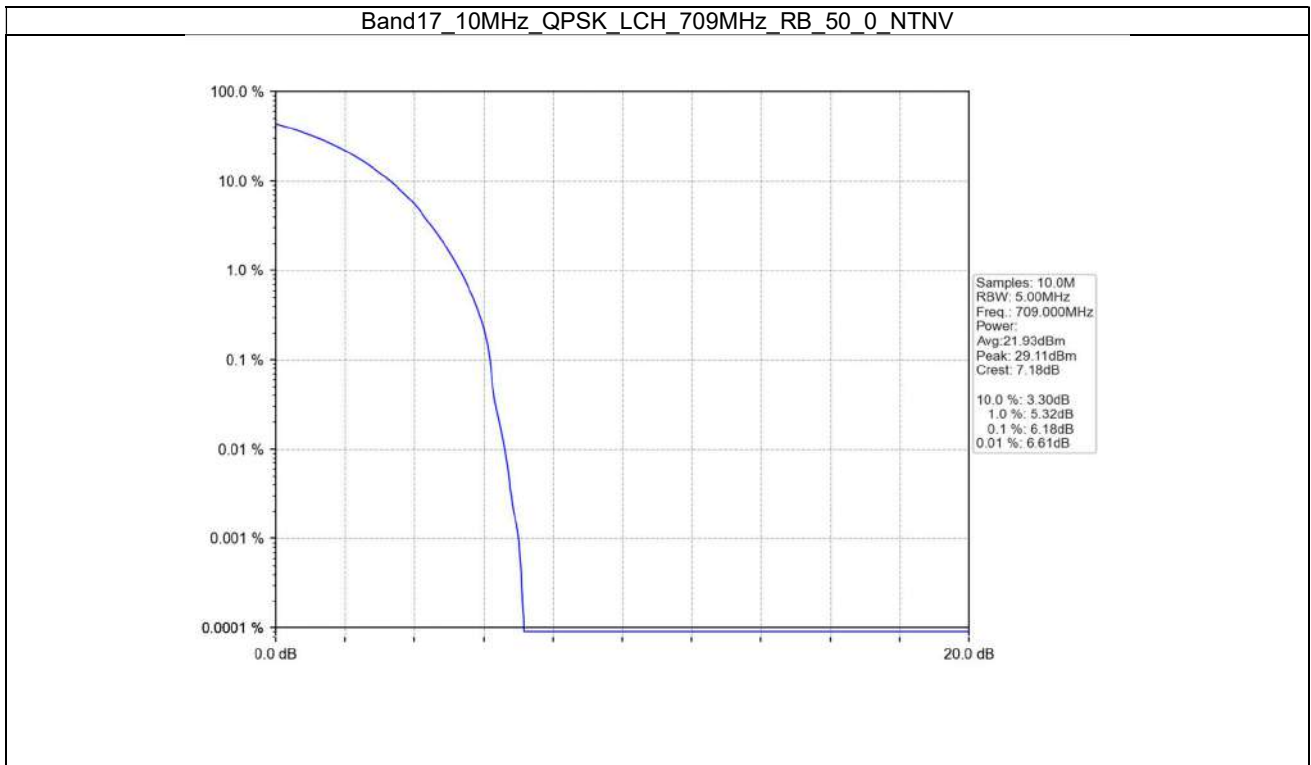
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## 5.2 B17\_10MHz

### 5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	6.18	<=13	Pass
	710	50	0	6.21	<=13	Pass
	711	50	0	6.24	<=13	Pass
16QAM	709	50	0	6.84	<=13	Pass
	710	50	0	6.76	<=13	Pass
	711	50	0	6.81	<=13	Pass

### 5.2.2 Test Graph



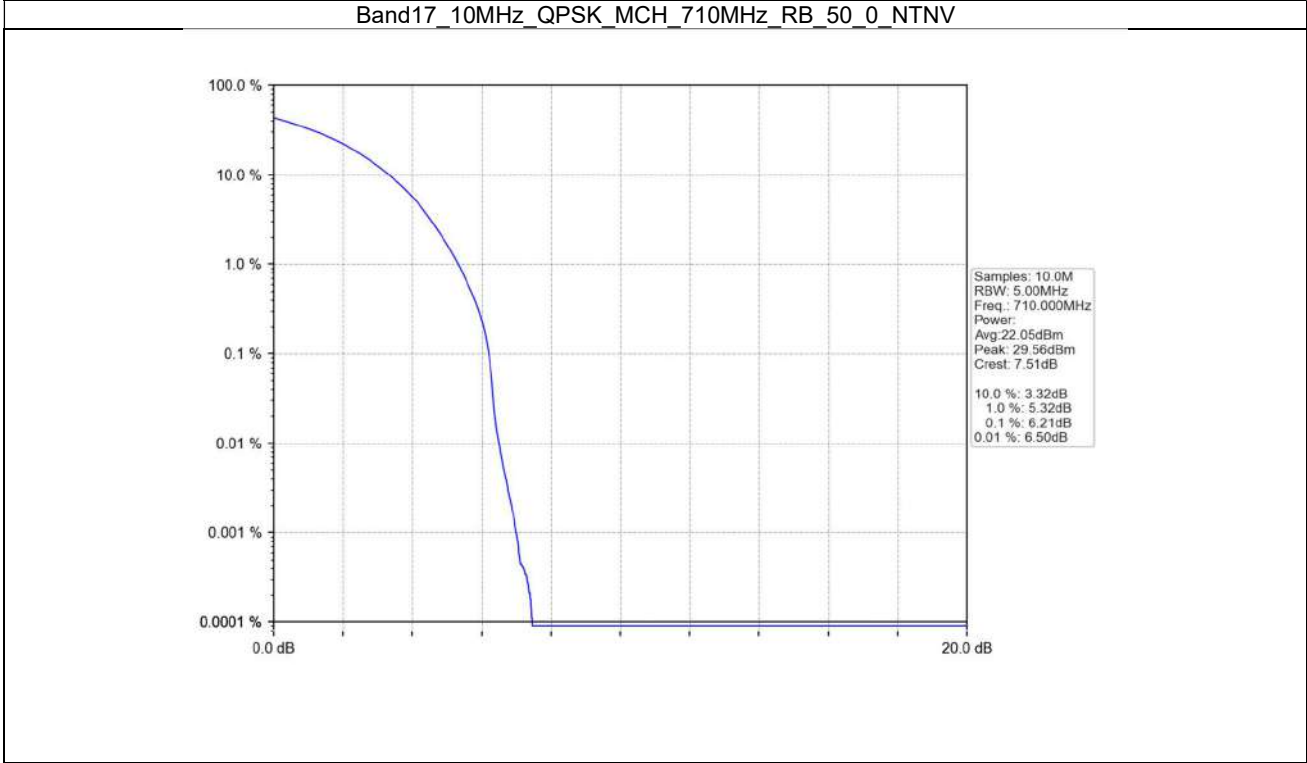
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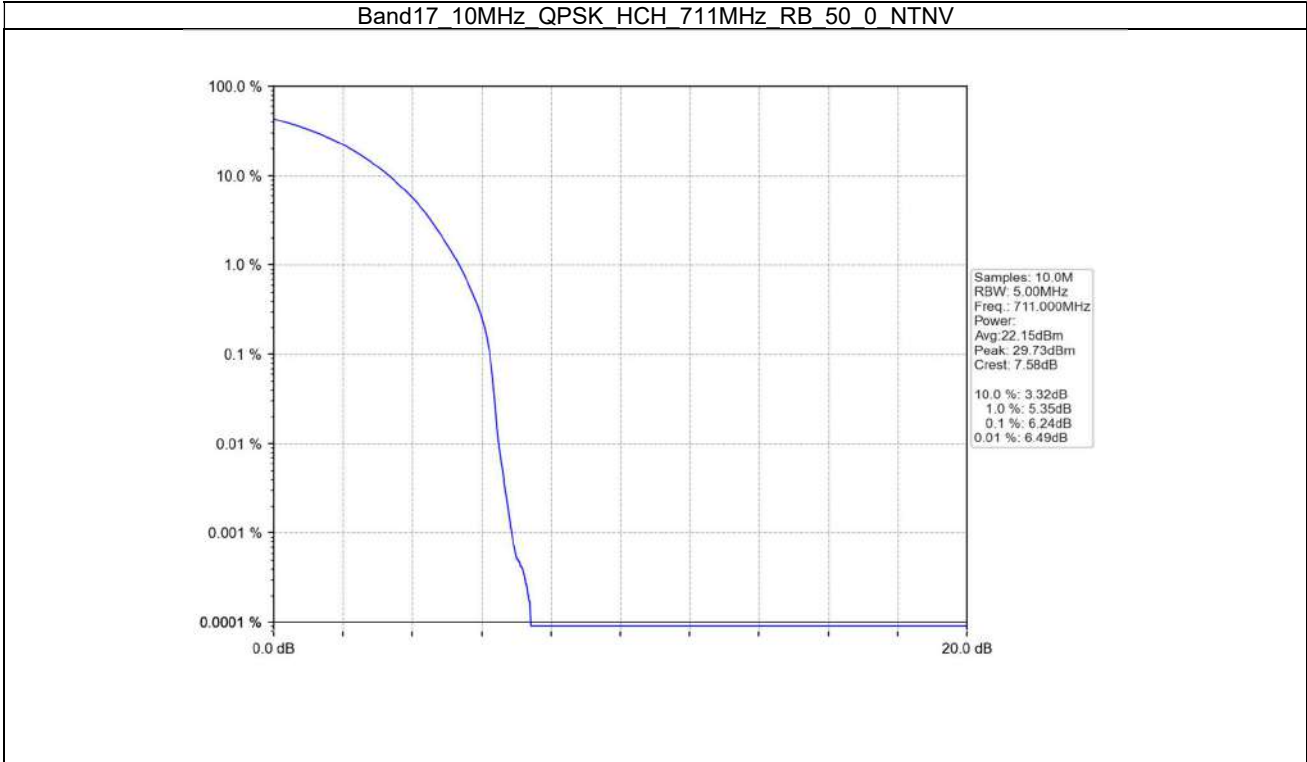


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Band17 10MHz QPSK HCH 711MHz RB 50 0 NTN

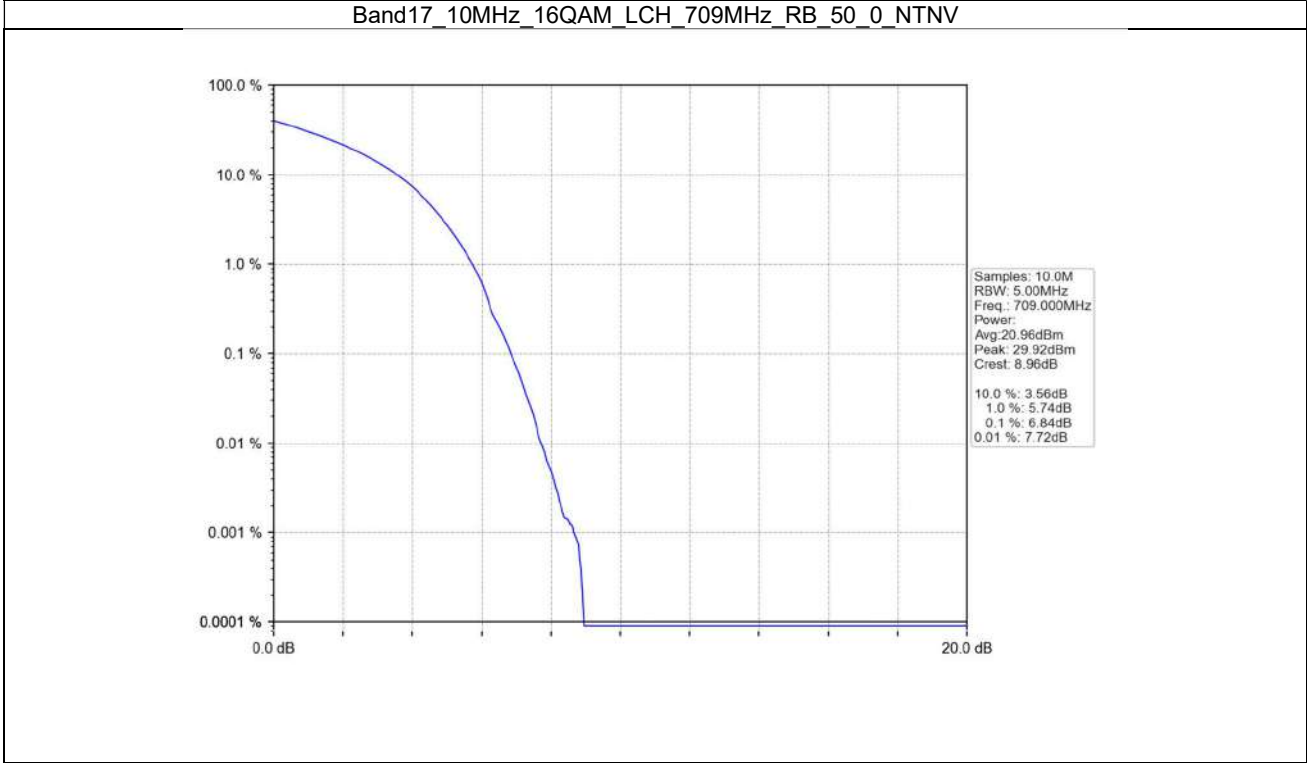


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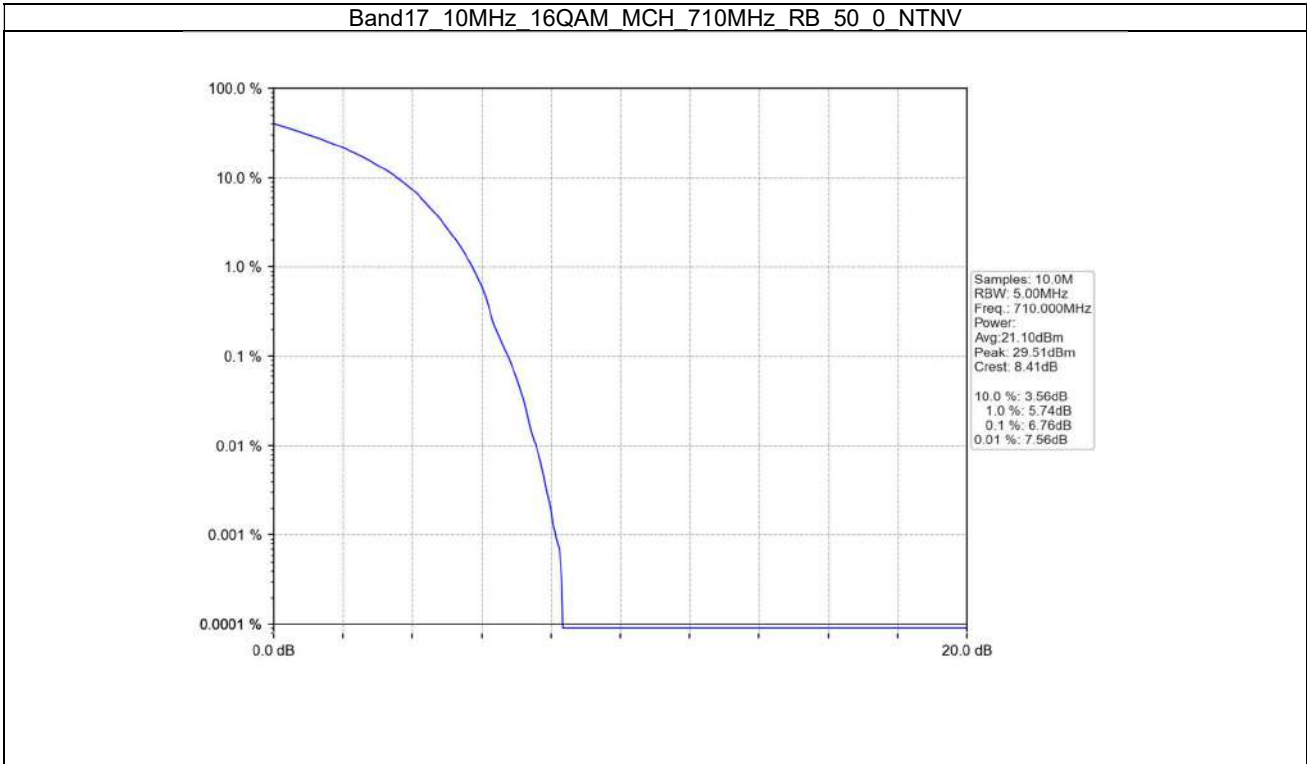


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Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



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## 6. Spurious Emission

### 6.1 B17\_5MHz

#### 6.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
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	
			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	
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.



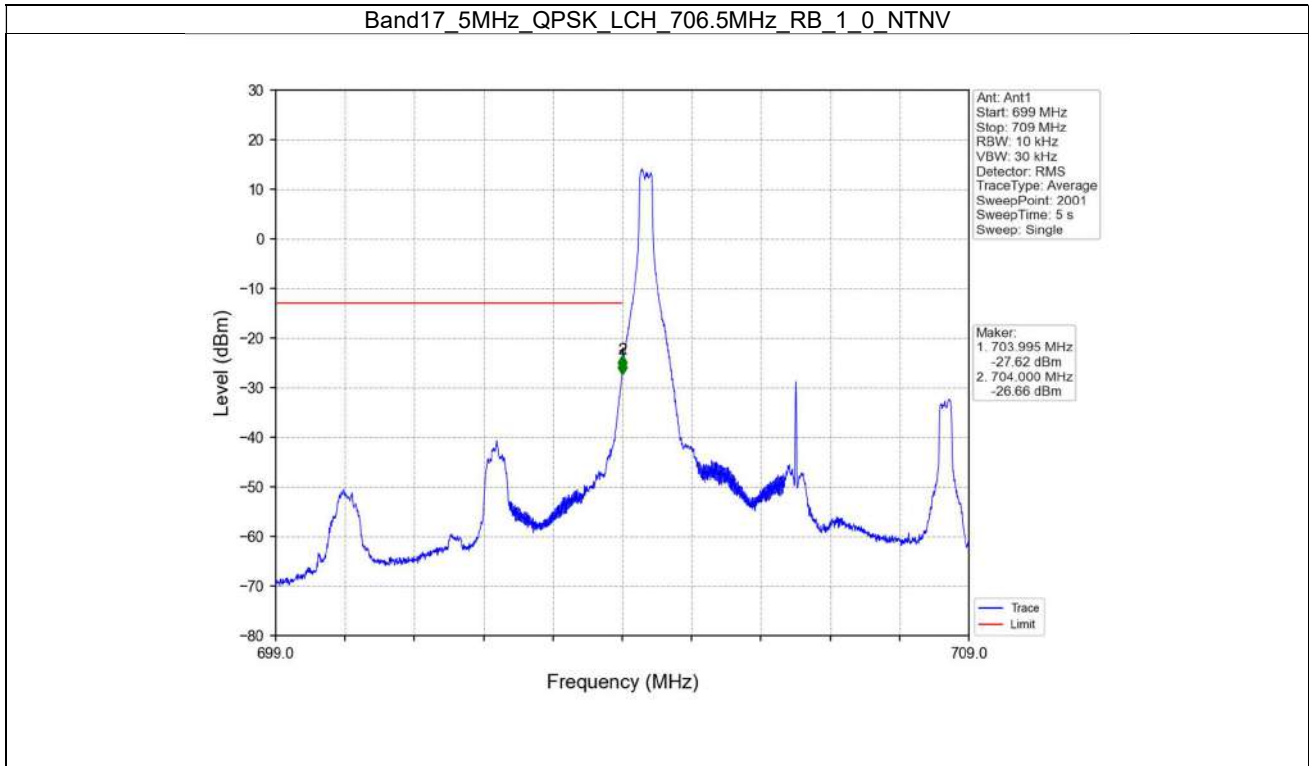
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6.1.2 Test Graph



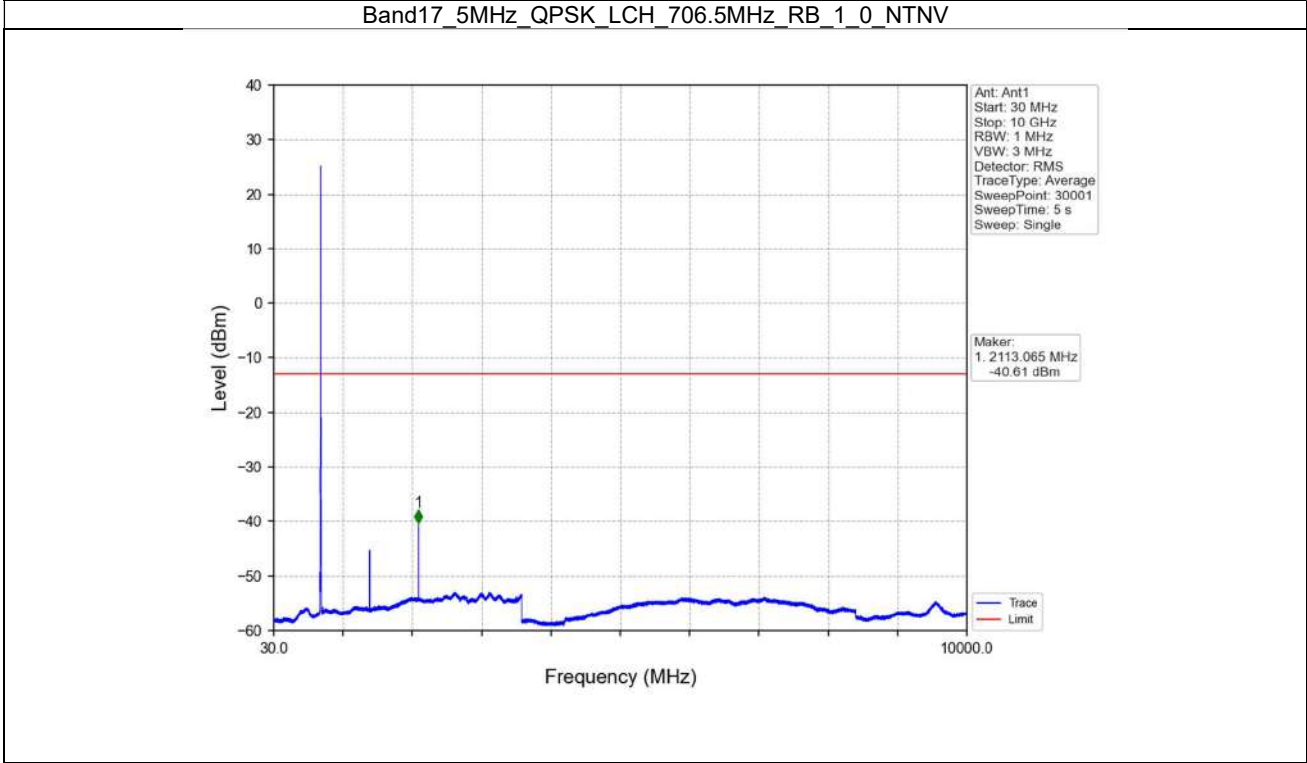
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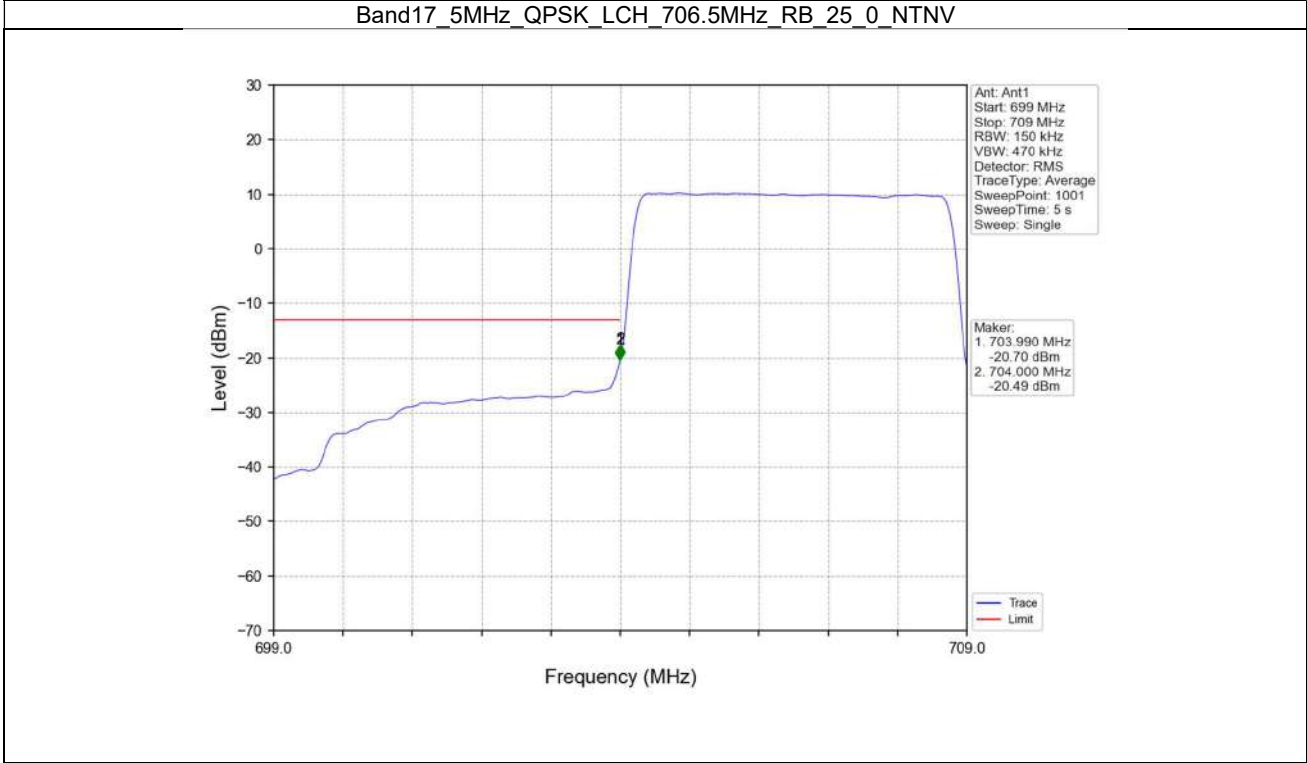
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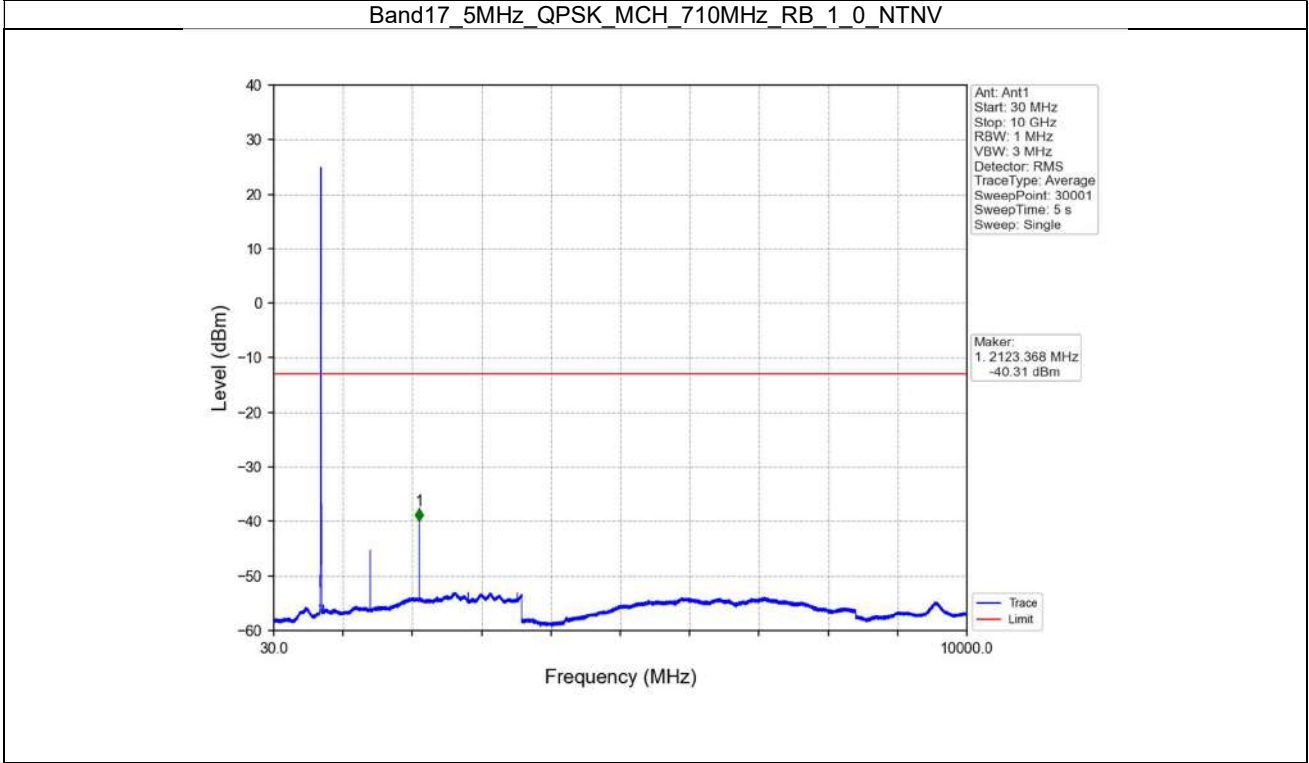
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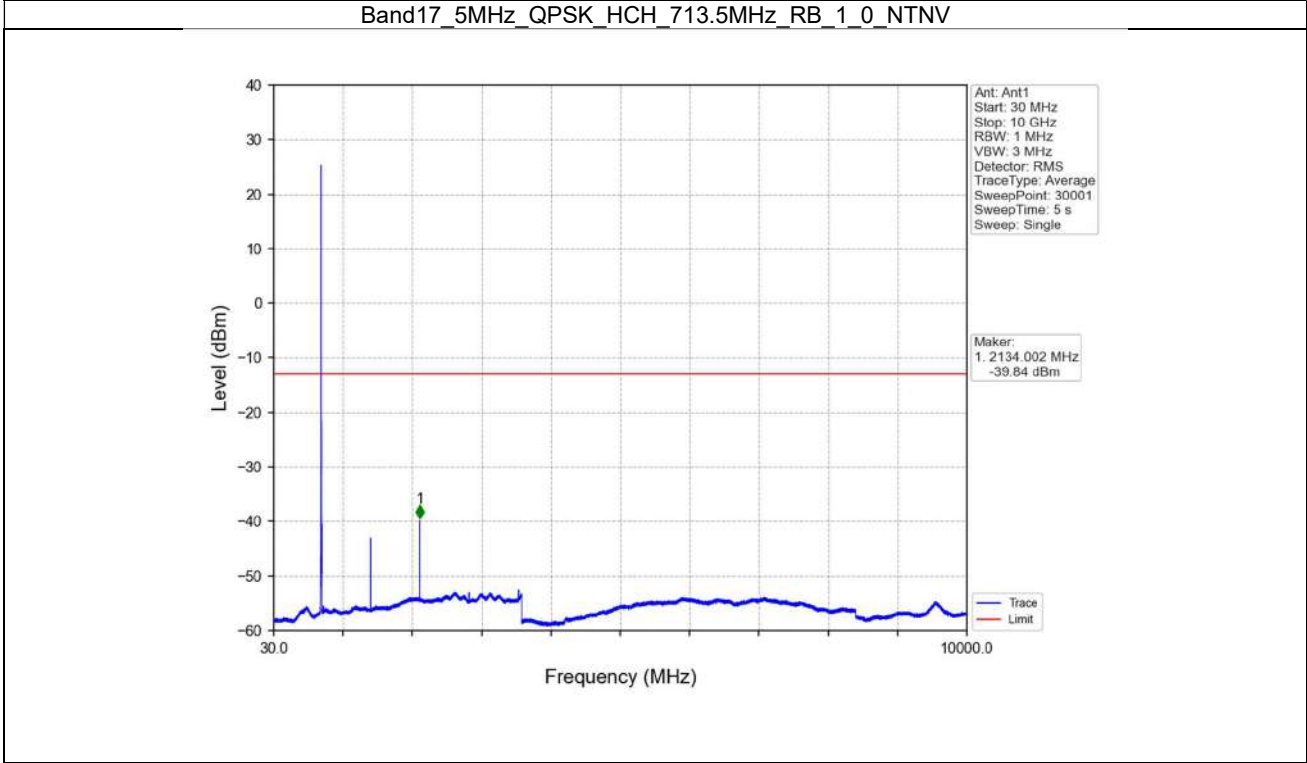
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Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



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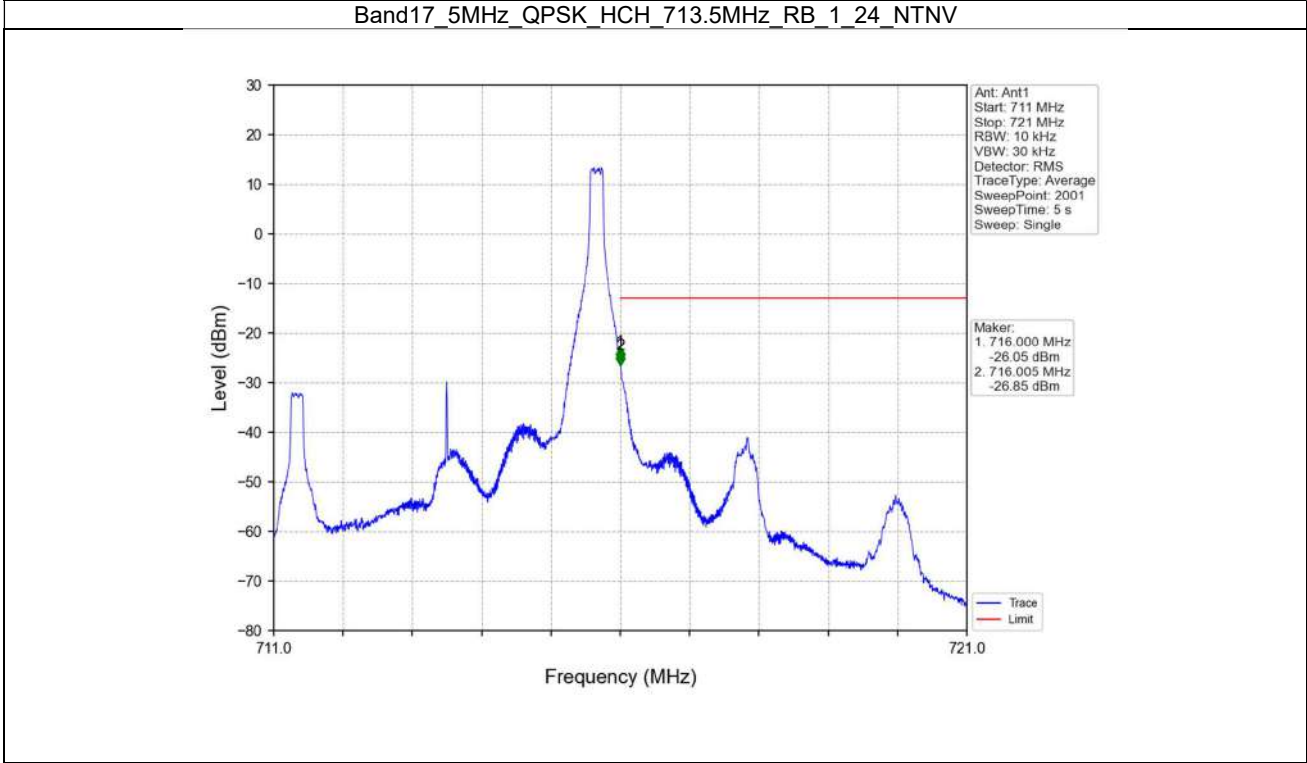
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Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV

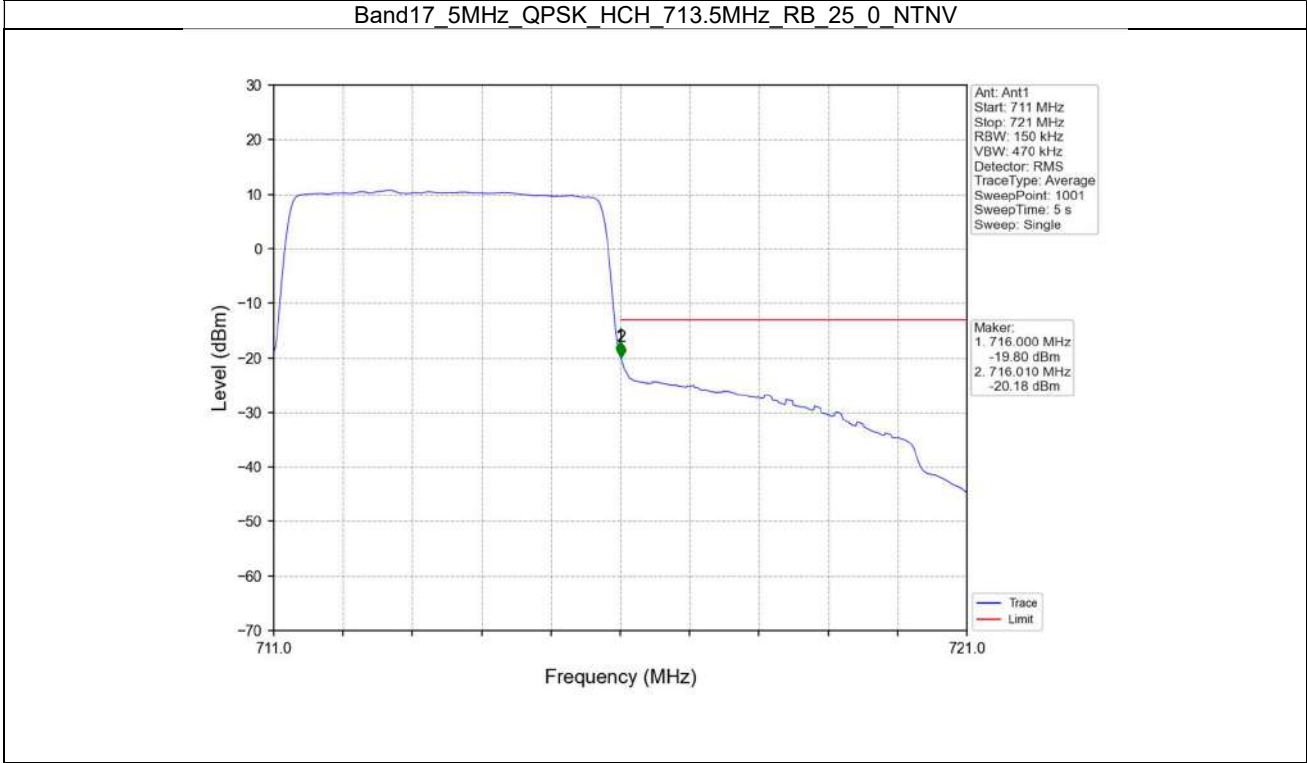


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Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

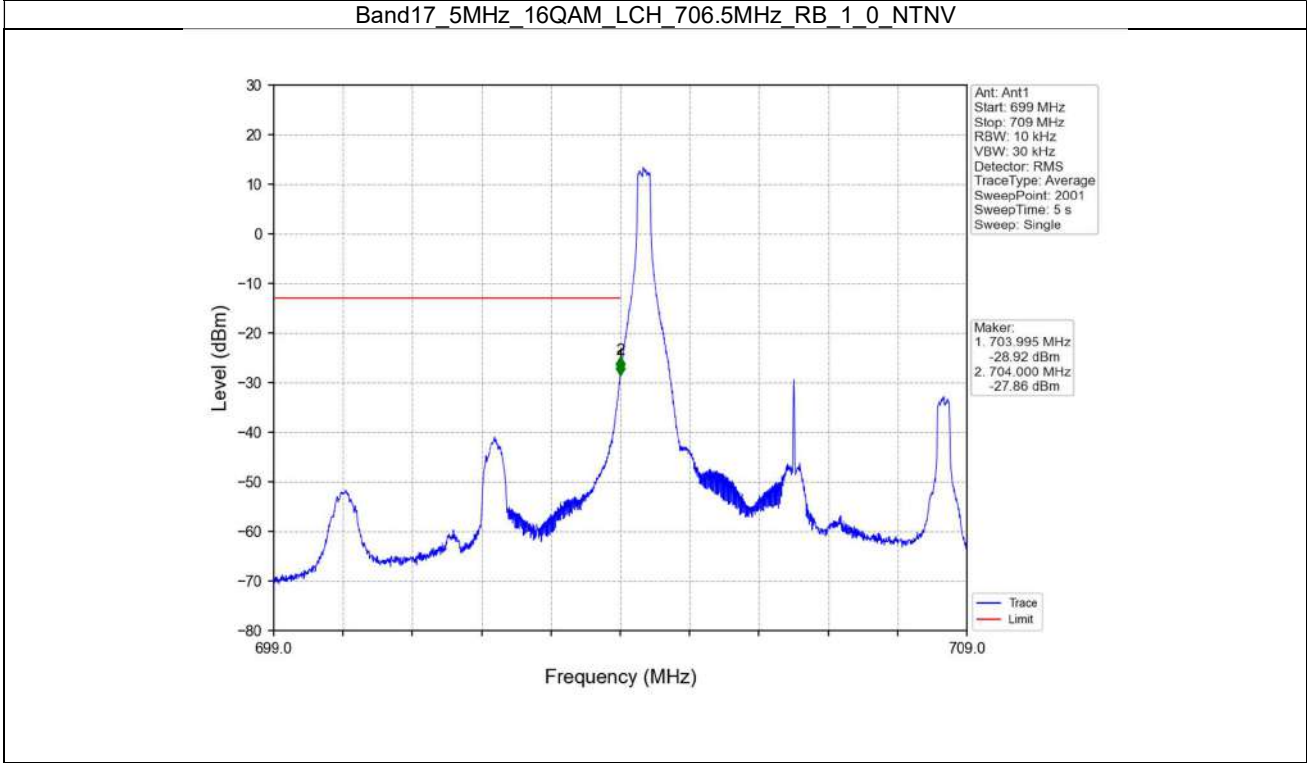


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Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV



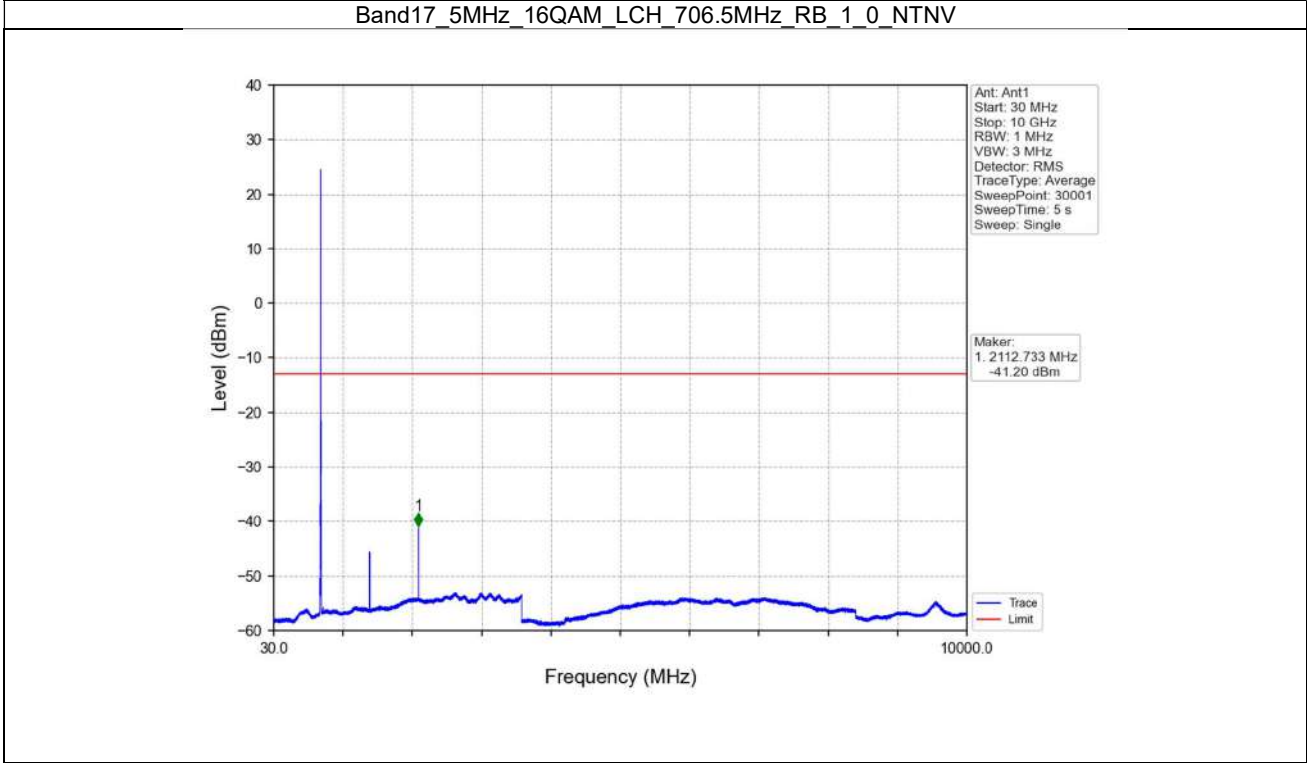
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Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV

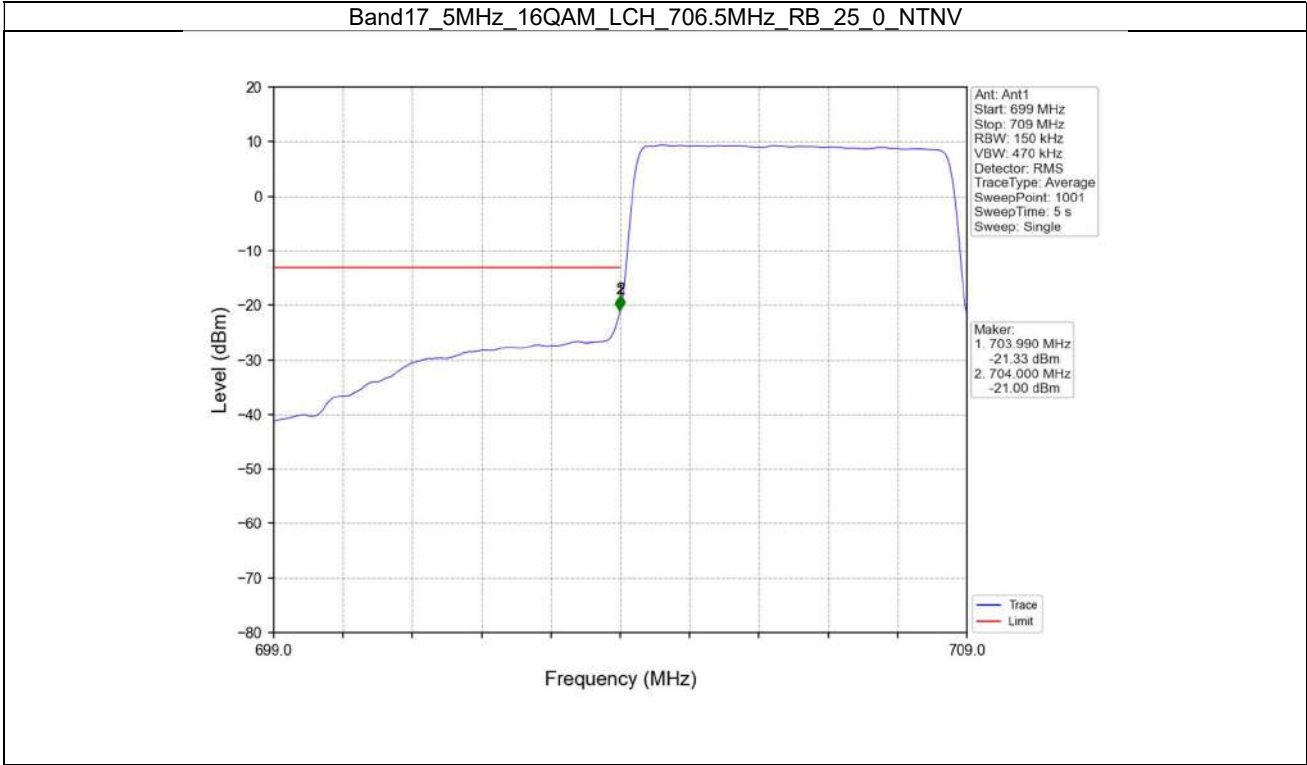


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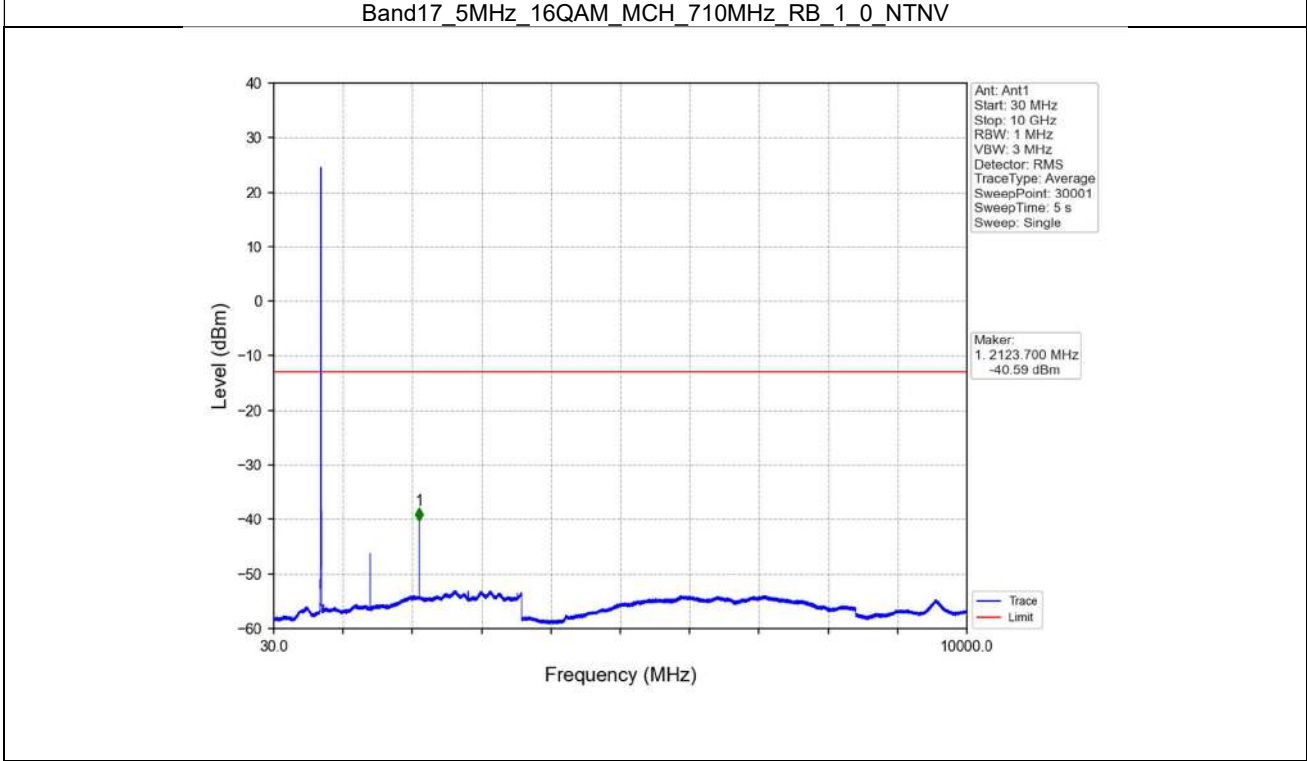


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Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_1\_0\_NTNV

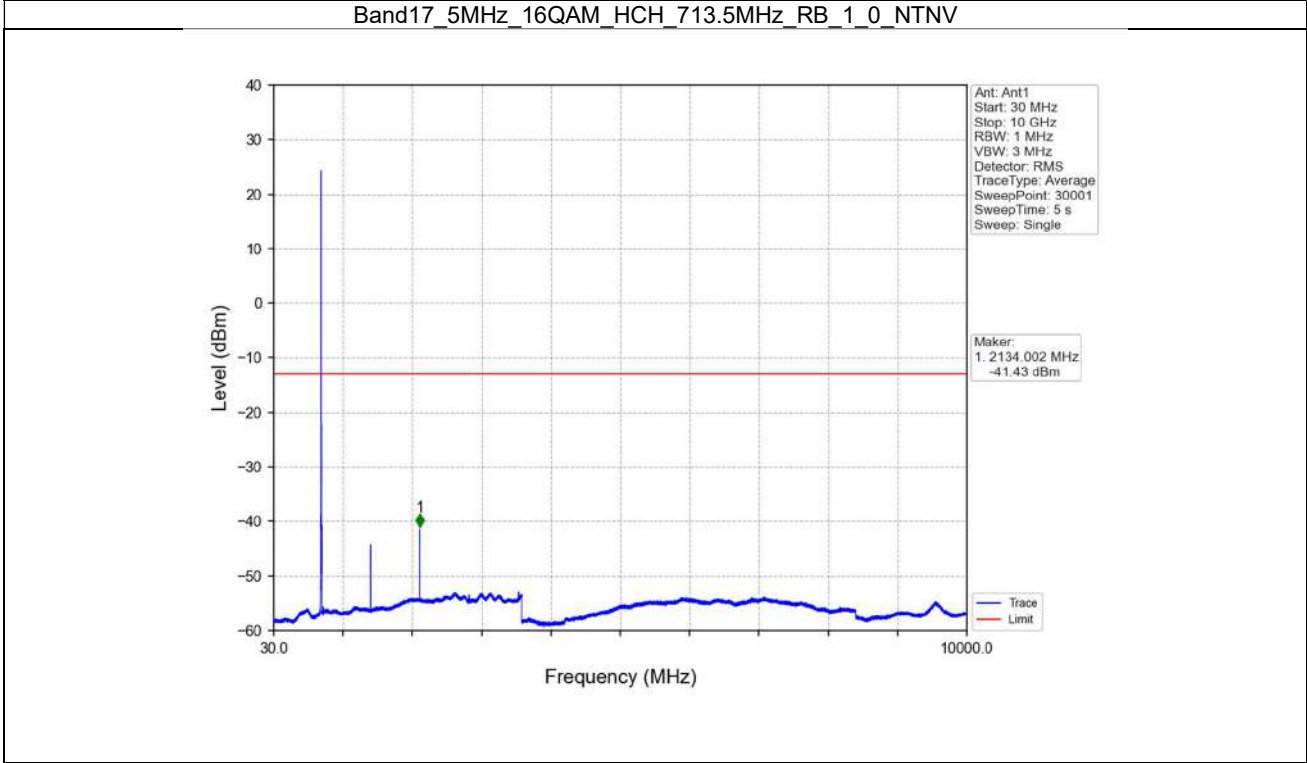


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Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

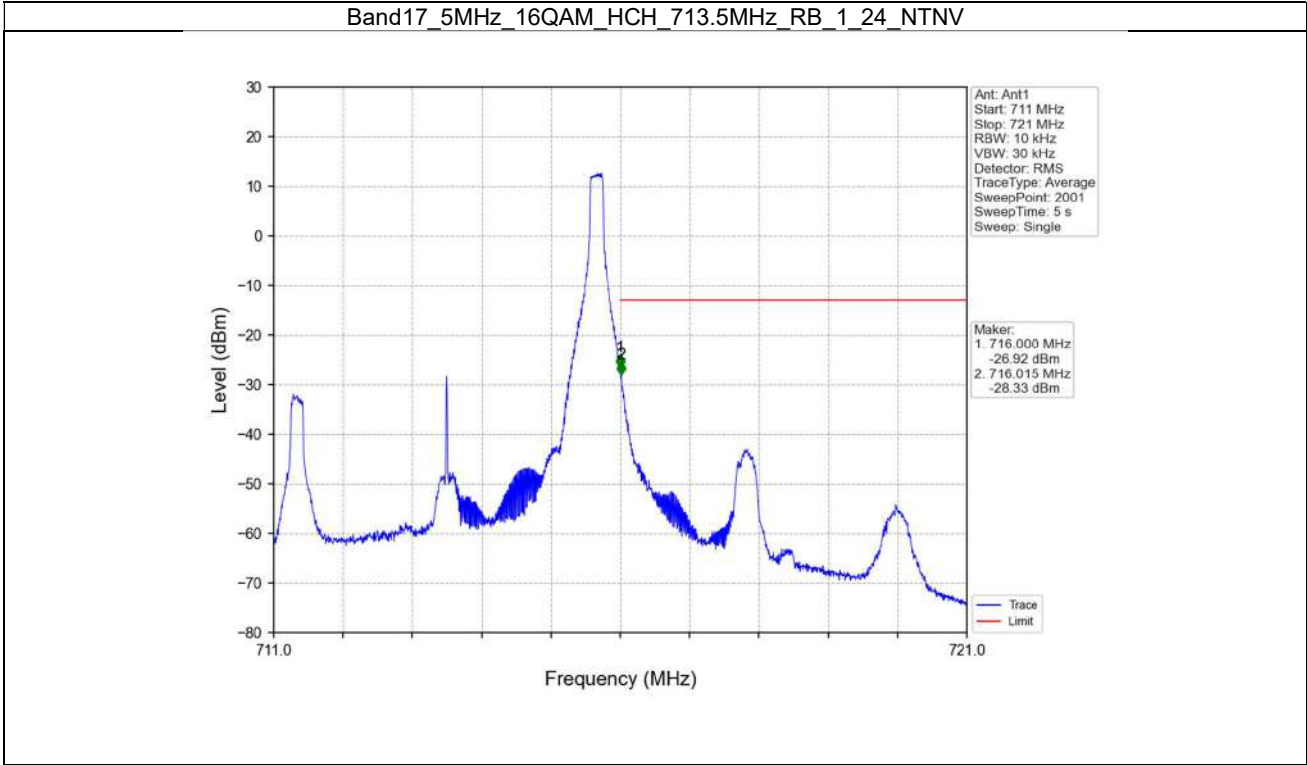


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6.2 B17\_10MHz

6.2.1 Test Result

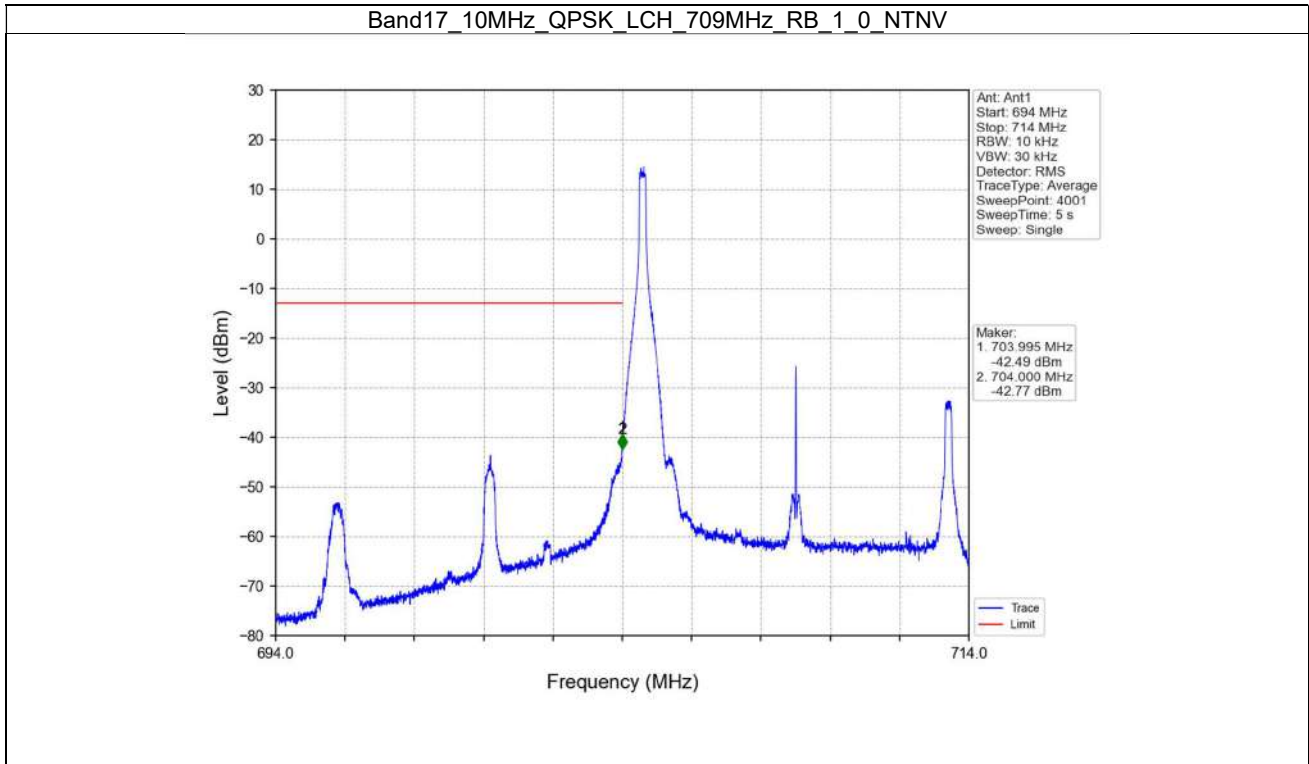
Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph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



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6.2.2 Test Graph



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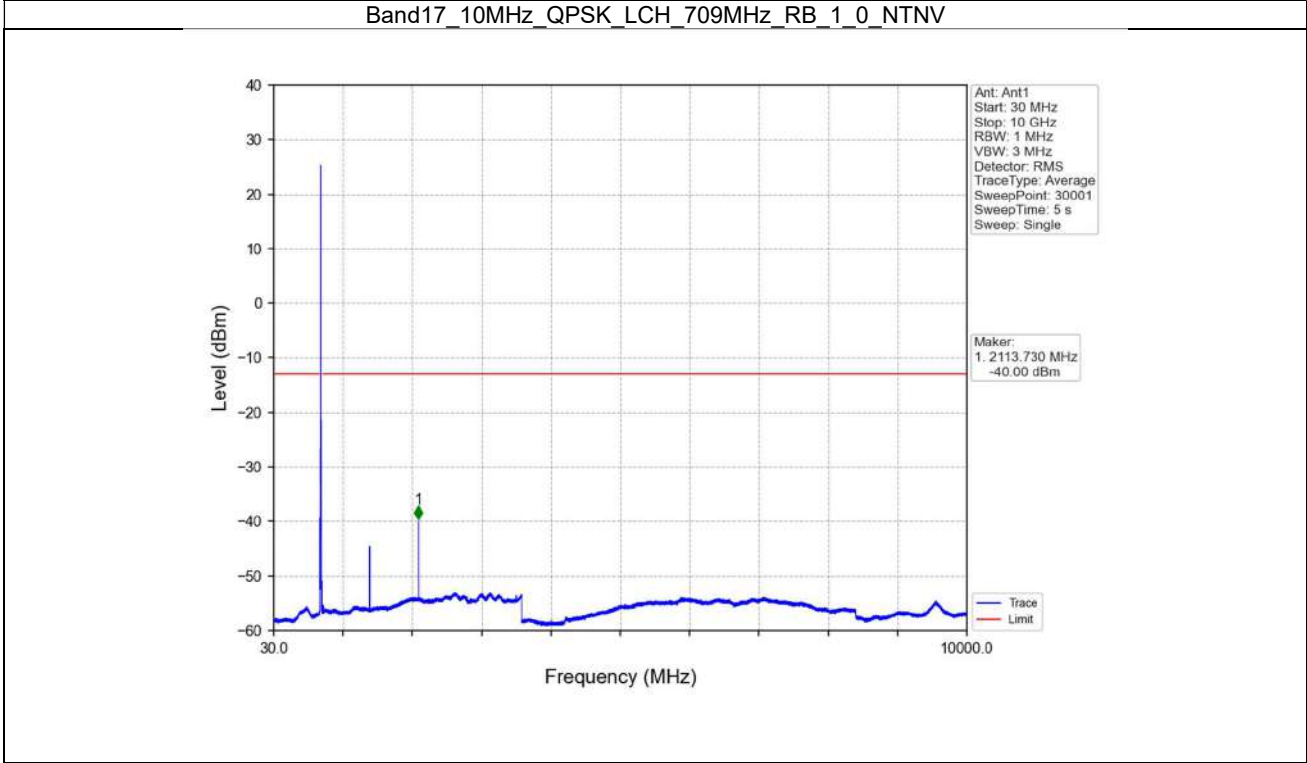
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Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_1\_0\_NTNV



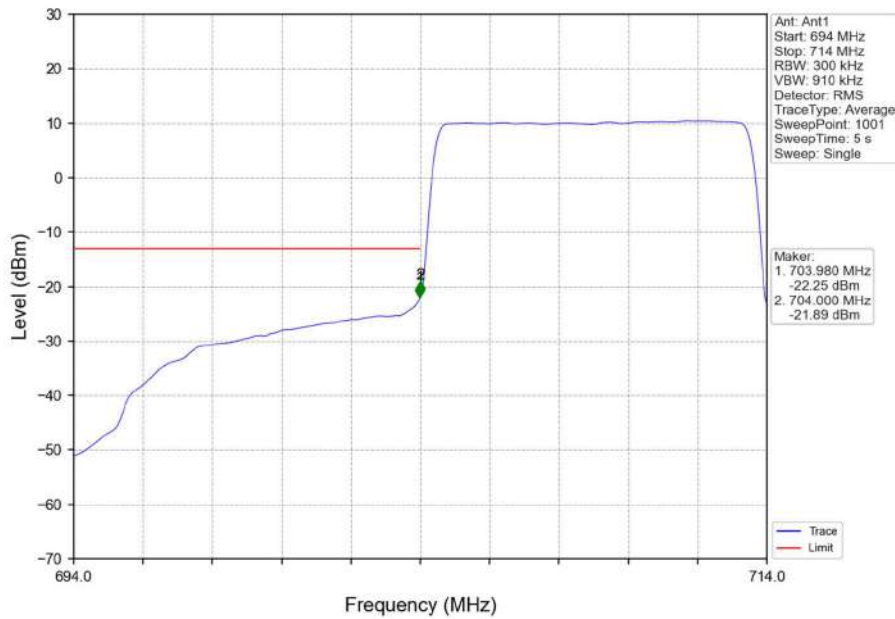
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Band17 10MHz QPSK LCH 709MHz RB 50 0 NTN



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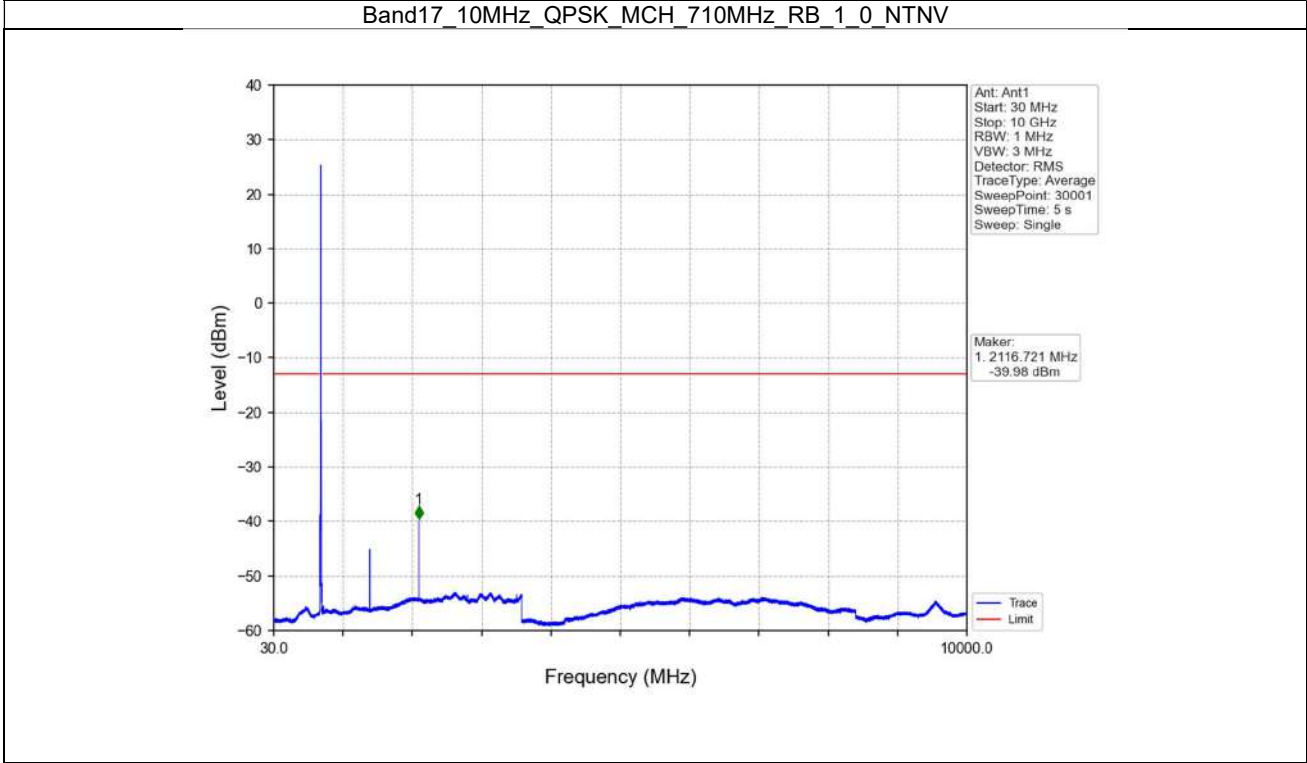
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Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV

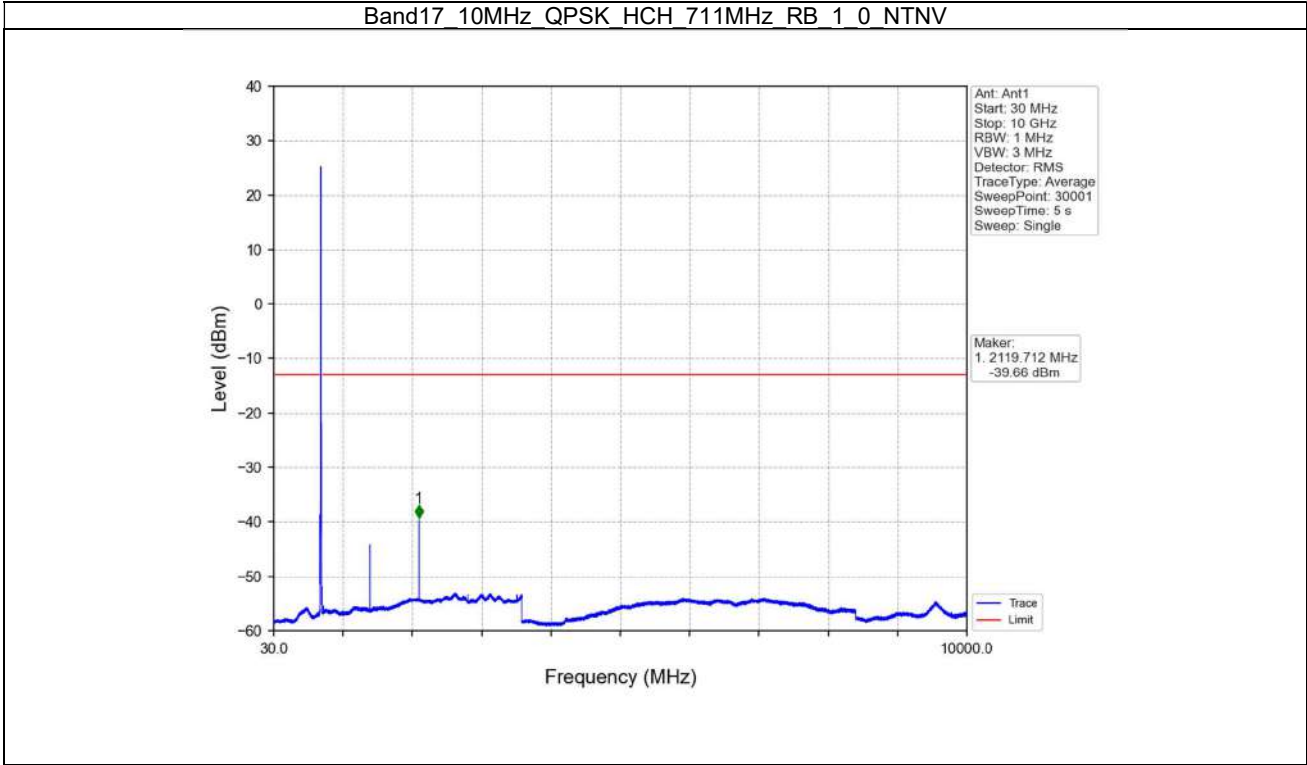


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Band17 10MHz QPSK HCH 711MHz RB 1 0 NTV



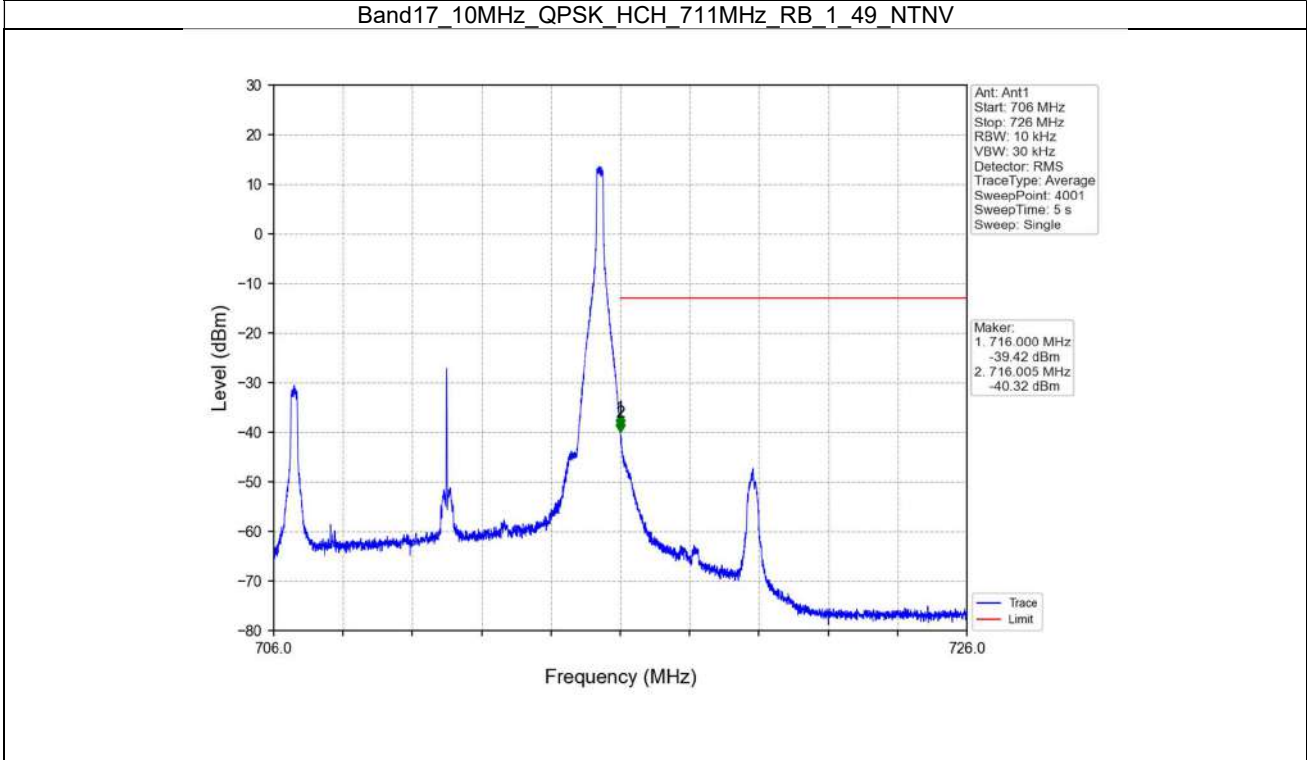
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Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV



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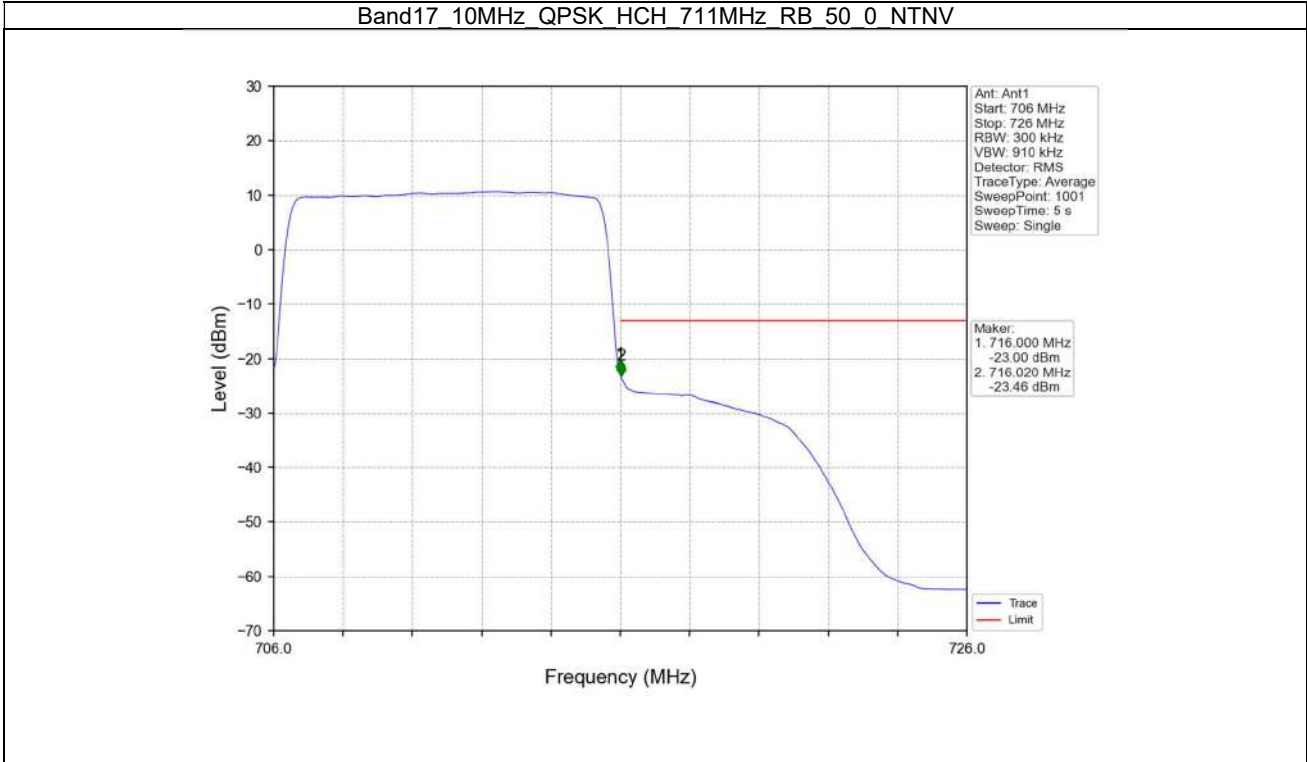
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Band17 10MHz QPSK HCH 711MHz RB 50 0 NTNV



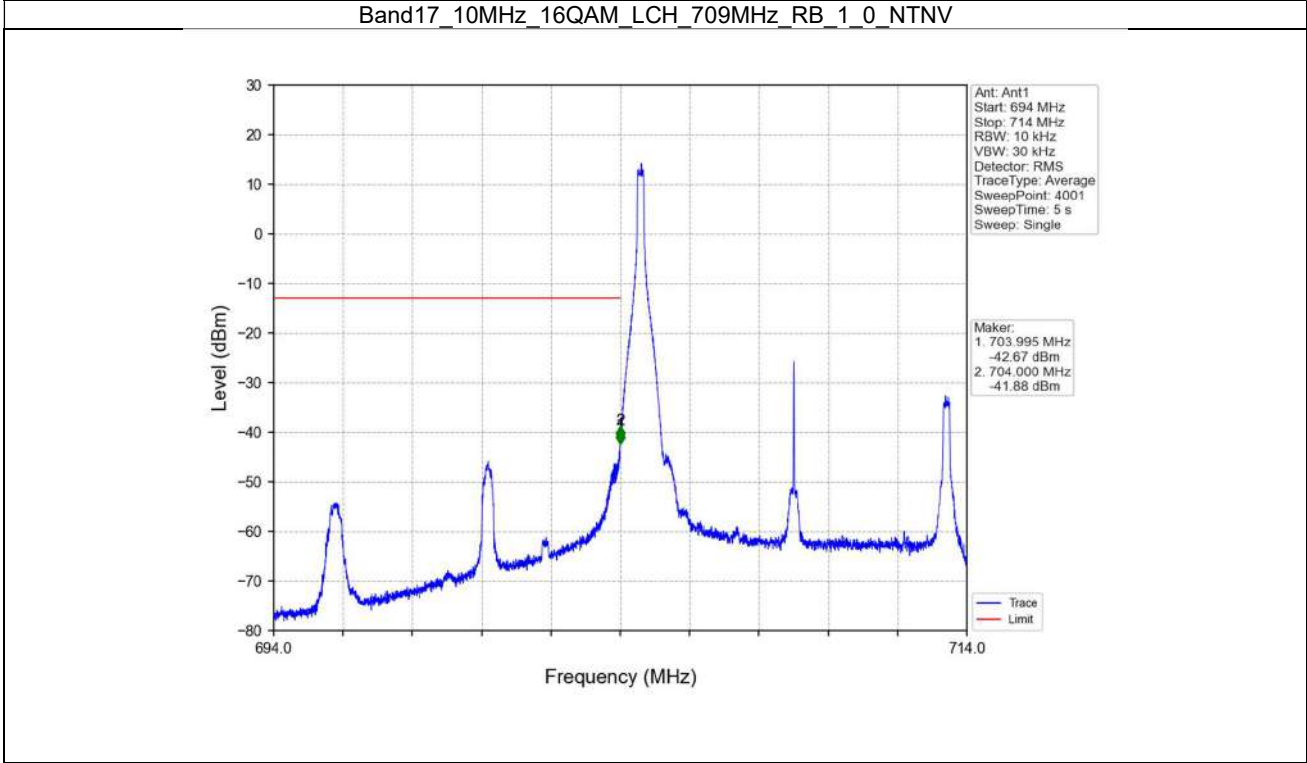
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Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_1\_0\_NTNV

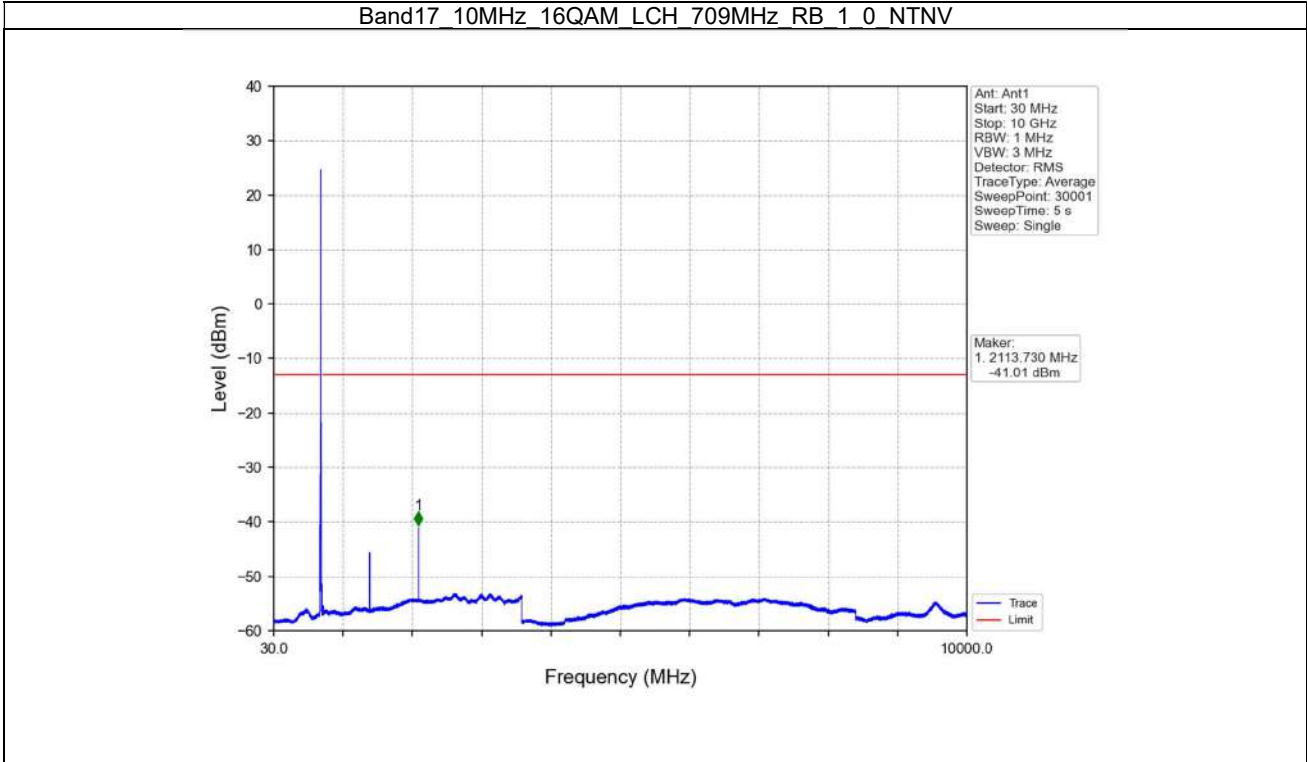


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Band17 10MHz 16QAM LCH 709MHz RB 1 0 NTNV



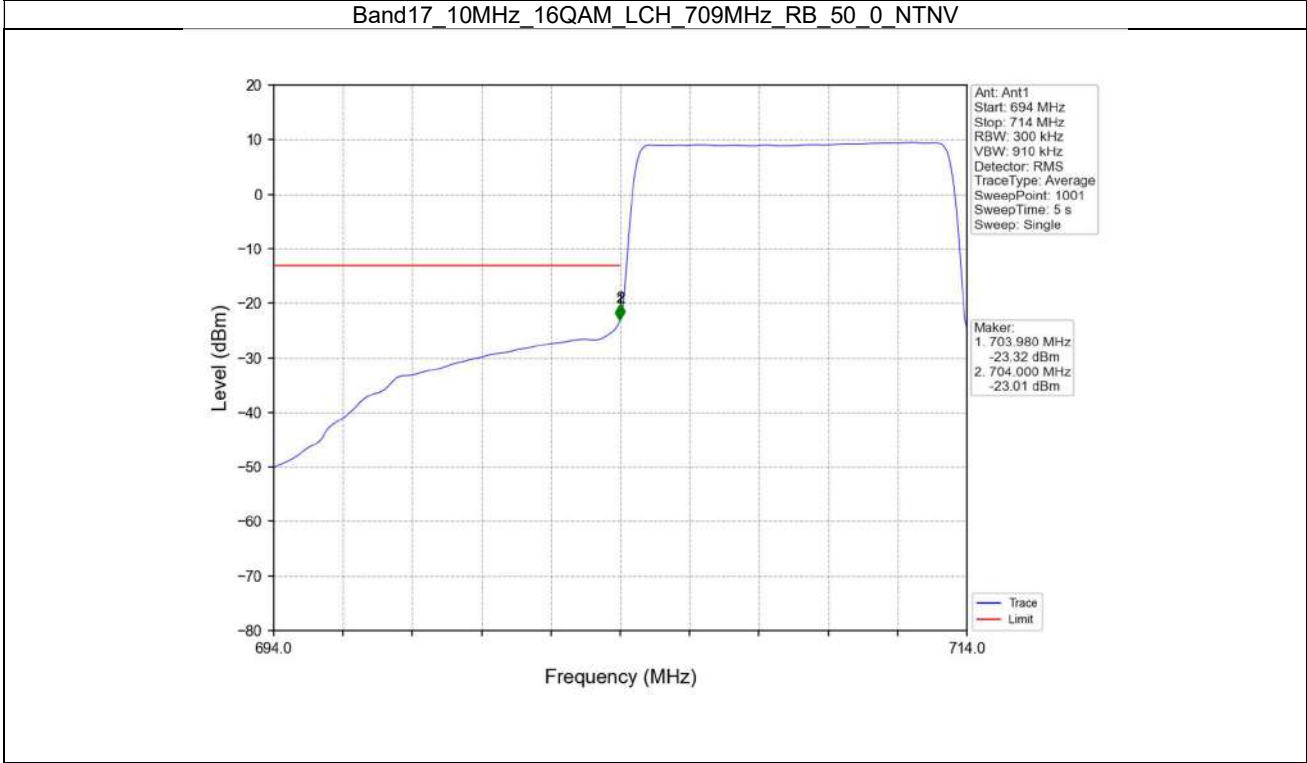
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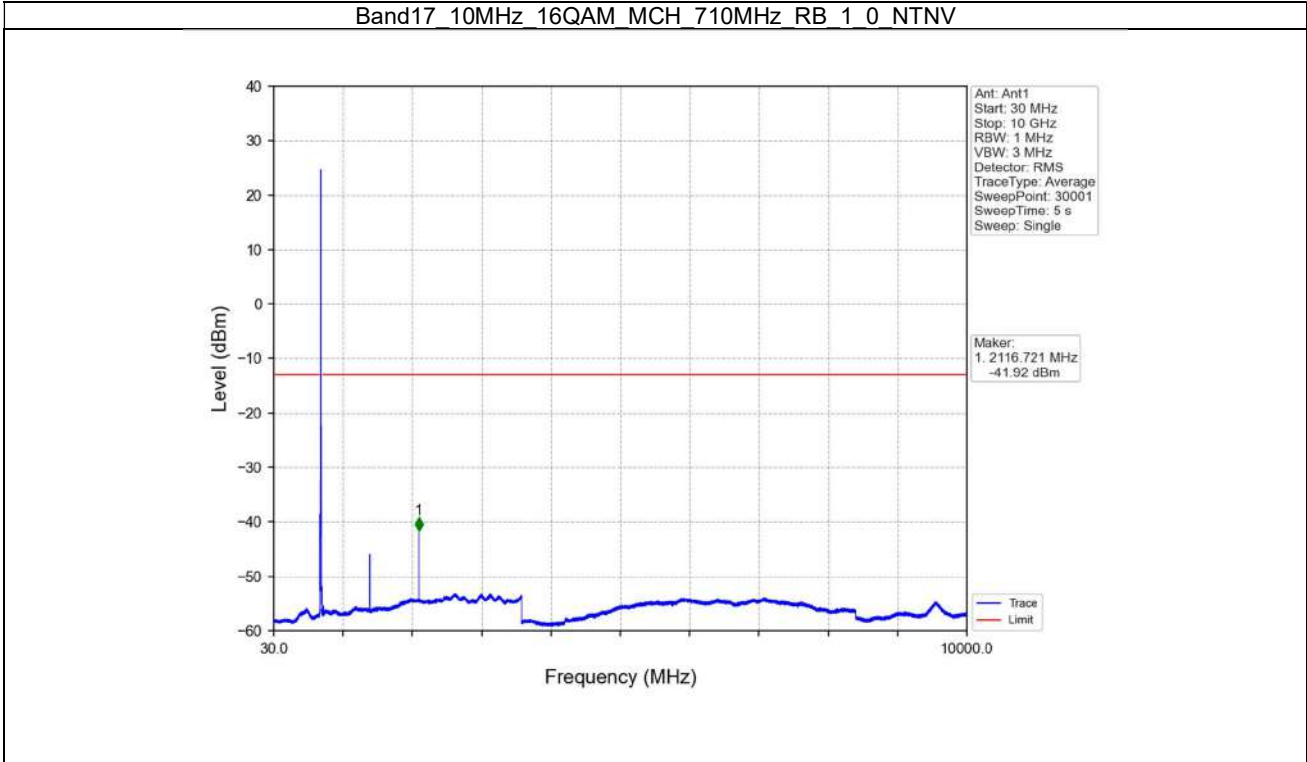
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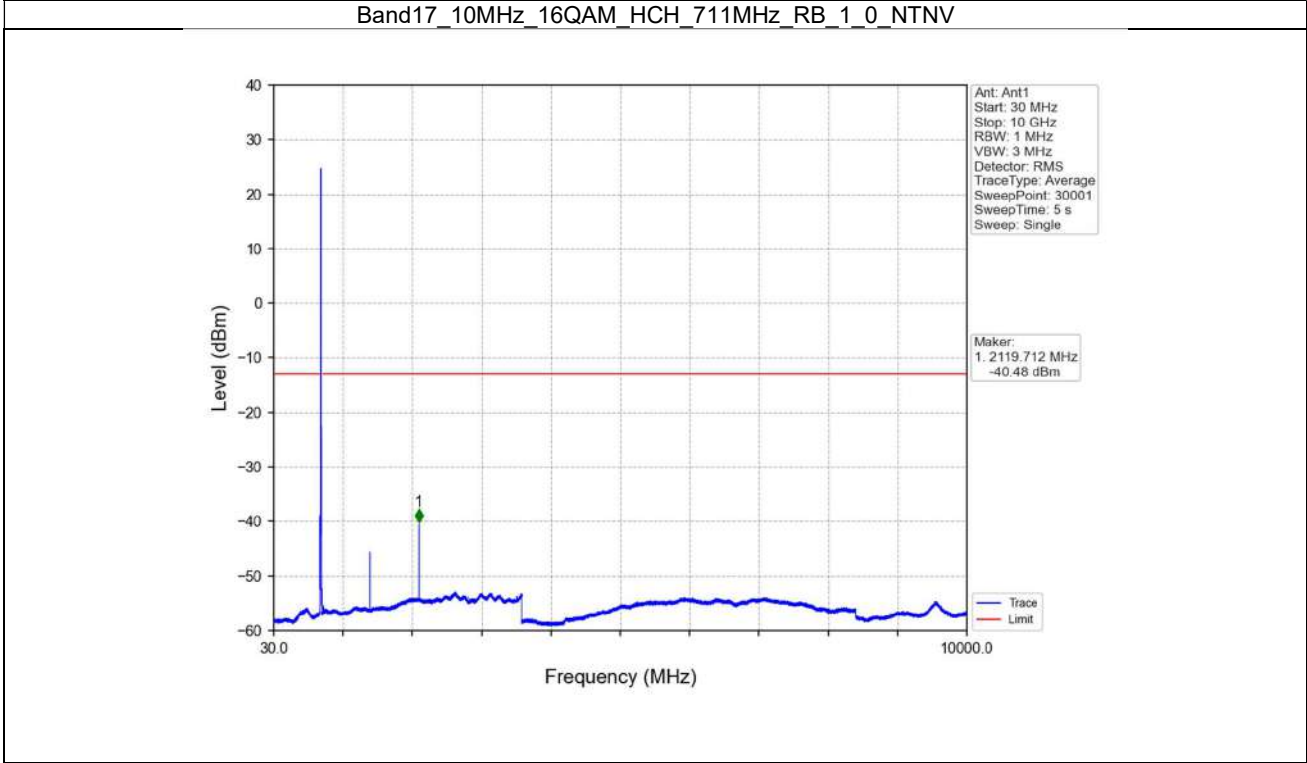


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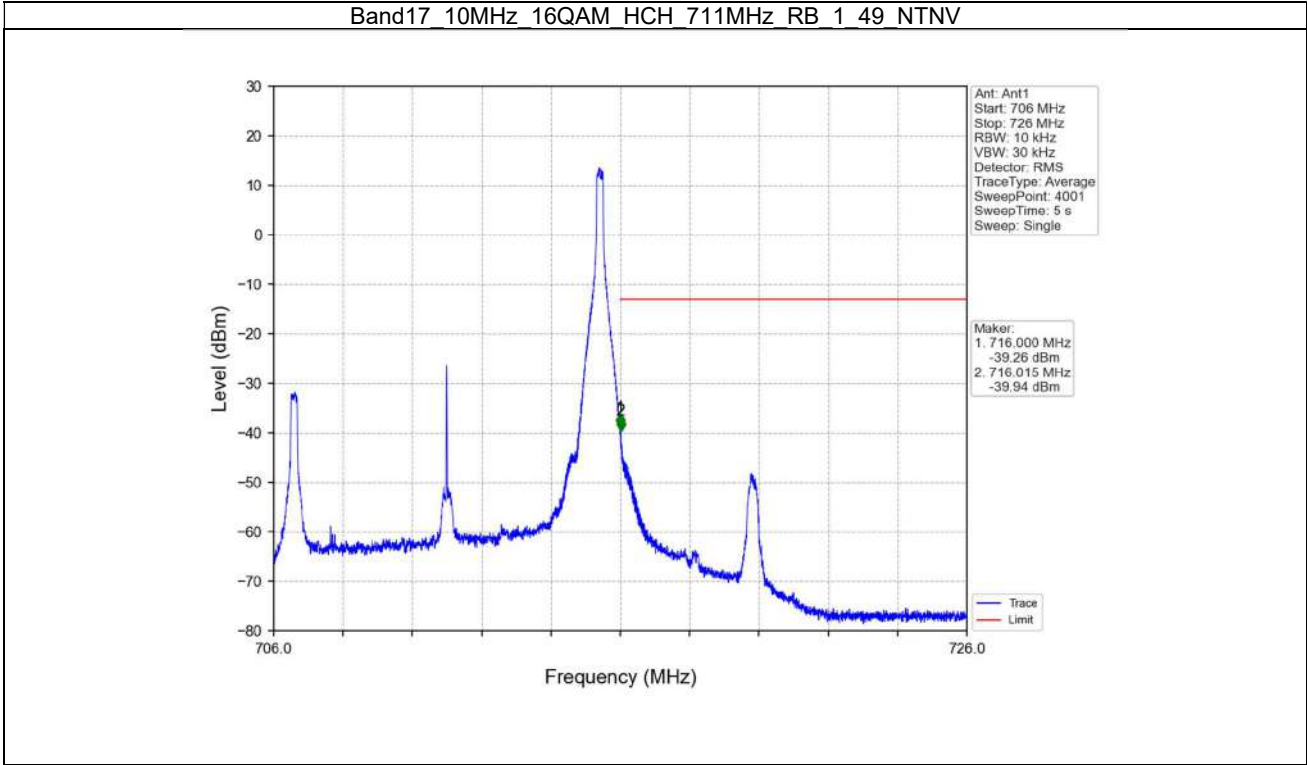


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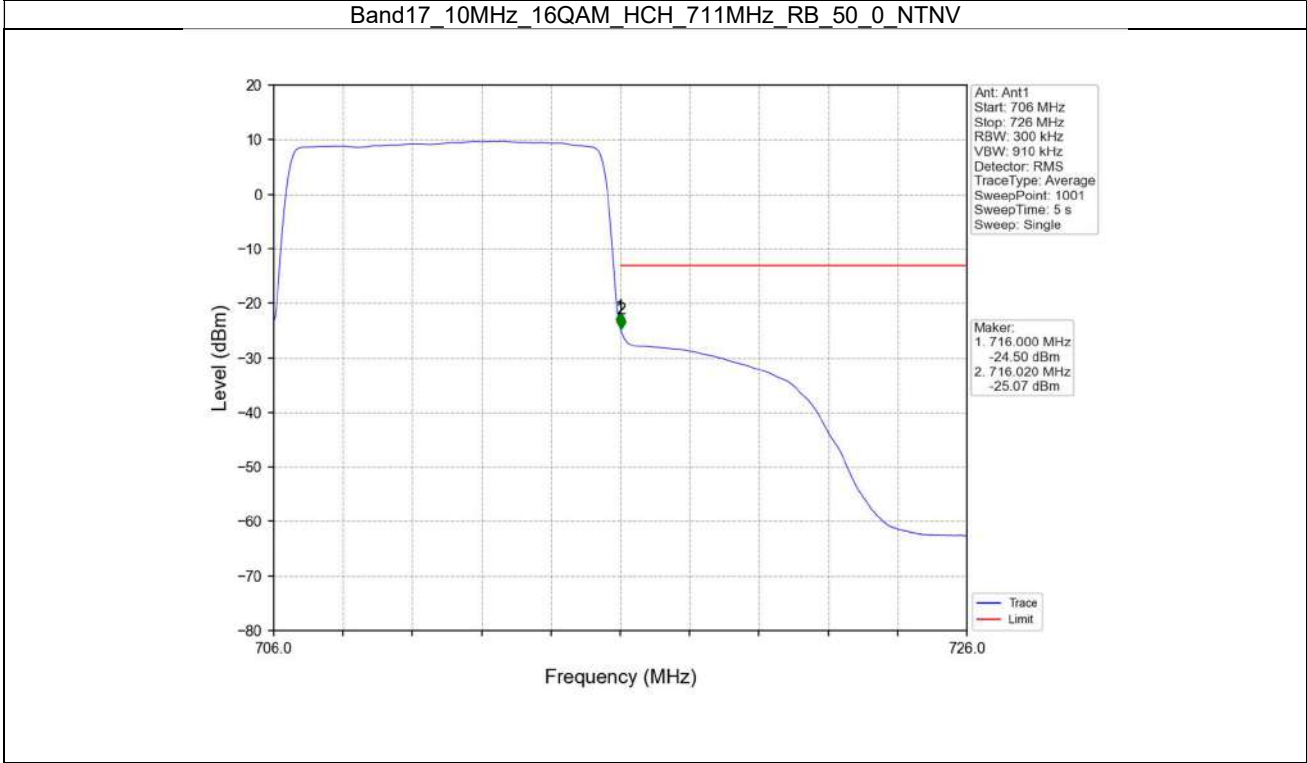


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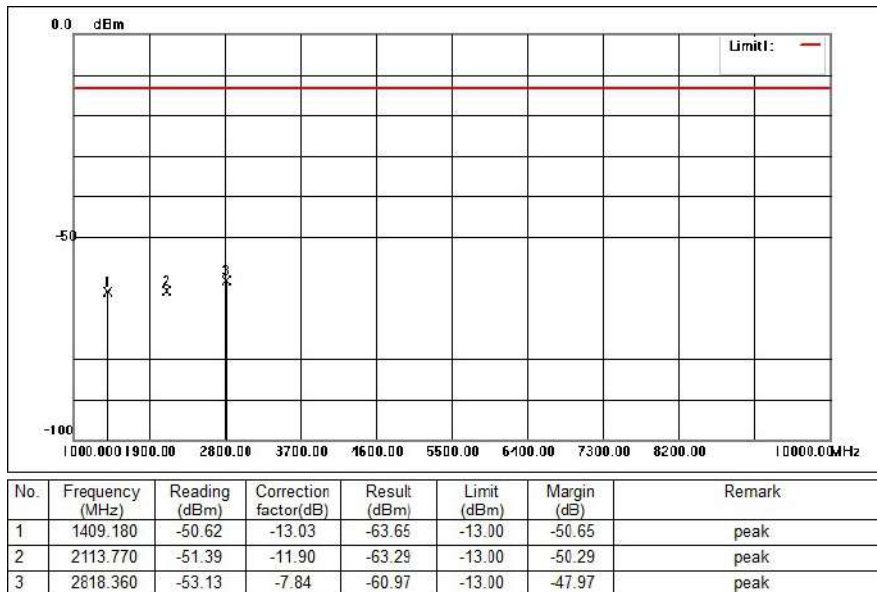


## 7. Field Strength of Spurious Radiation

Up Antenna

LTE BAND 17-10MHz-Low channel

Polarization: H



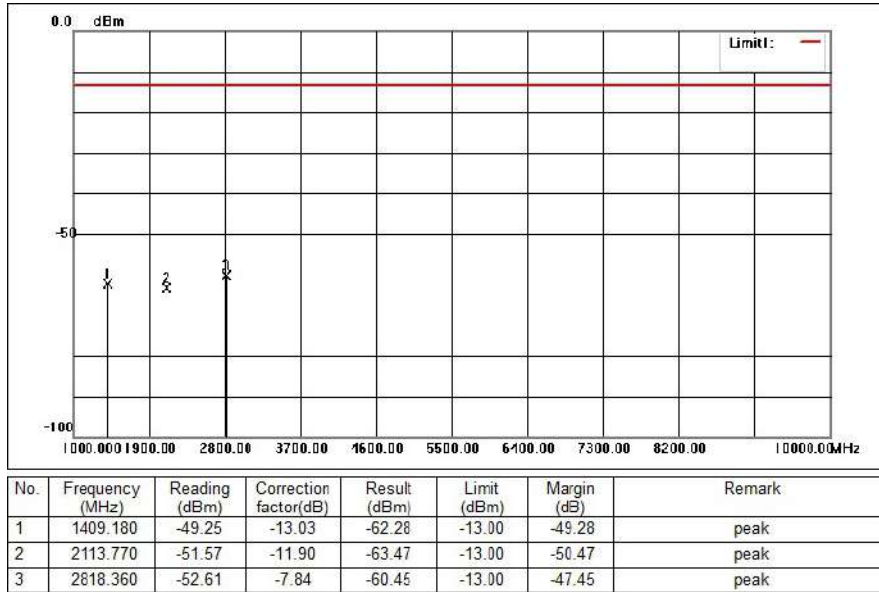
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Polarization: V



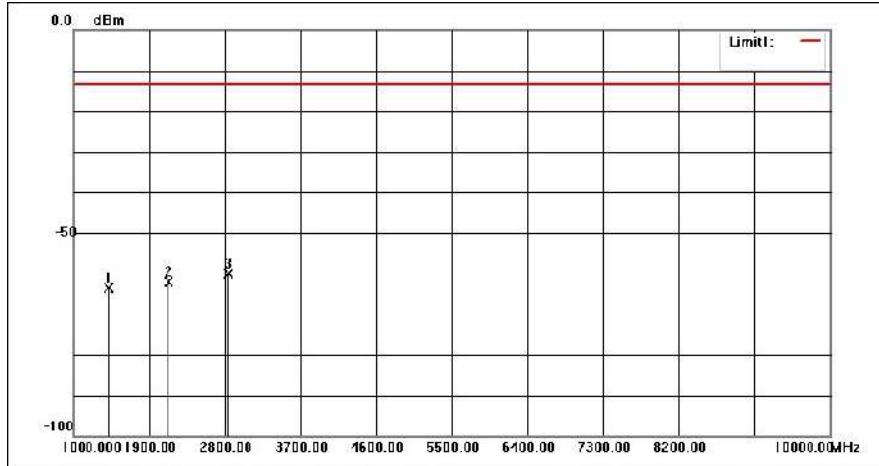
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LTE BAND 17-10MHz-Middle channel

Polarization: H



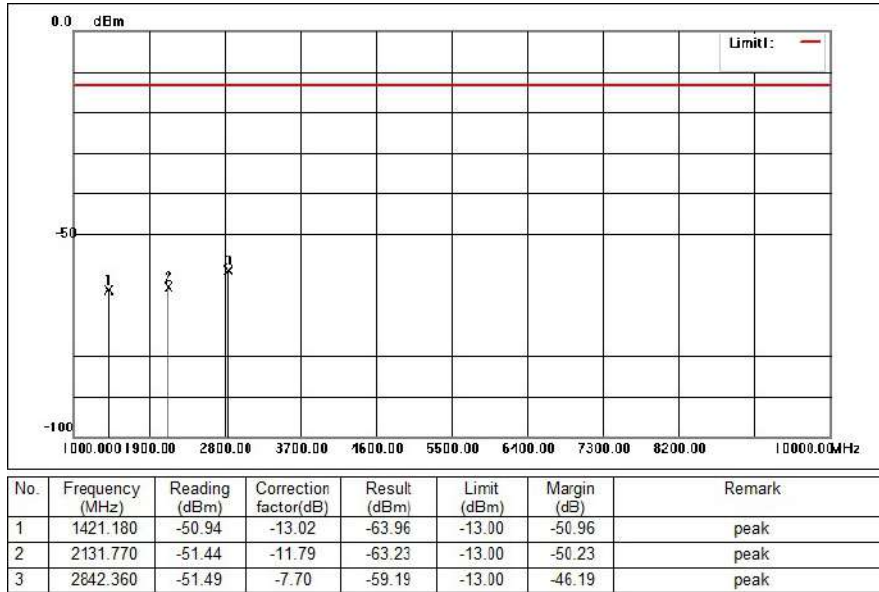
No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1421.180	-50.69	-13.02	-63.71	-13.00	-50.71	peak
2	2131.770	-50.45	-11.79	-62.24	-13.00	-49.24	peak
3	2842.360	-52.51	-7.70	-60.21	-13.00	-47.21	peak



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Polarization: V

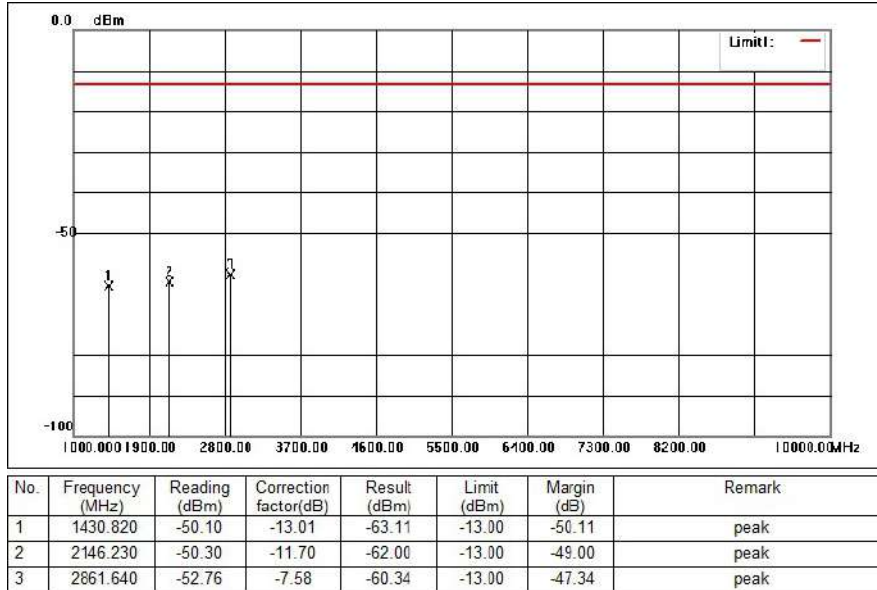


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LTE BAND 17-10MHz-High channel

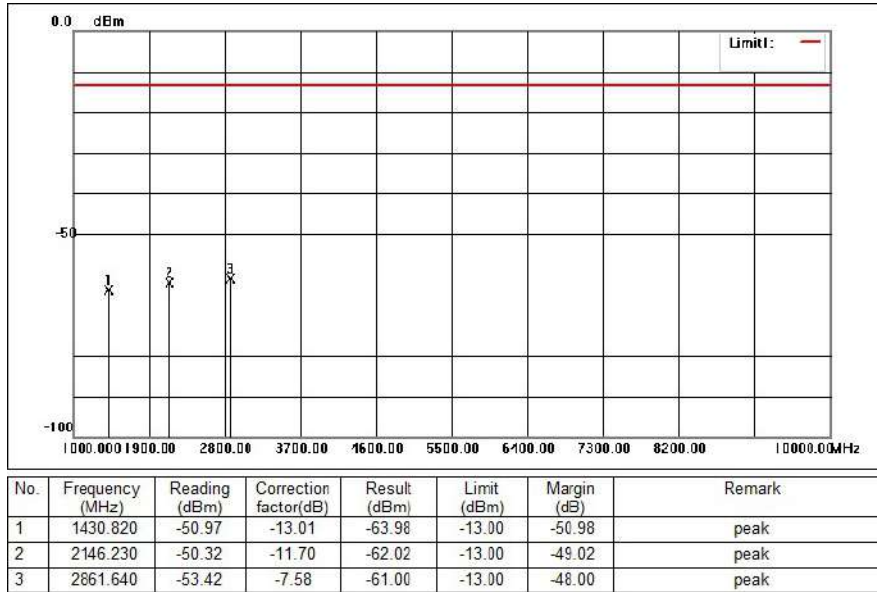
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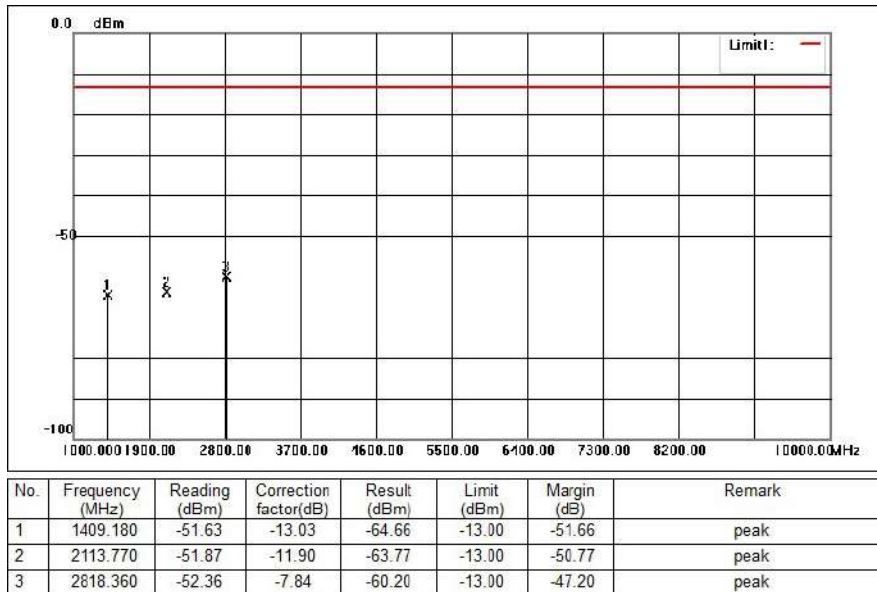
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Down Antenna

LTE BAND 17-10MHz-Low channel

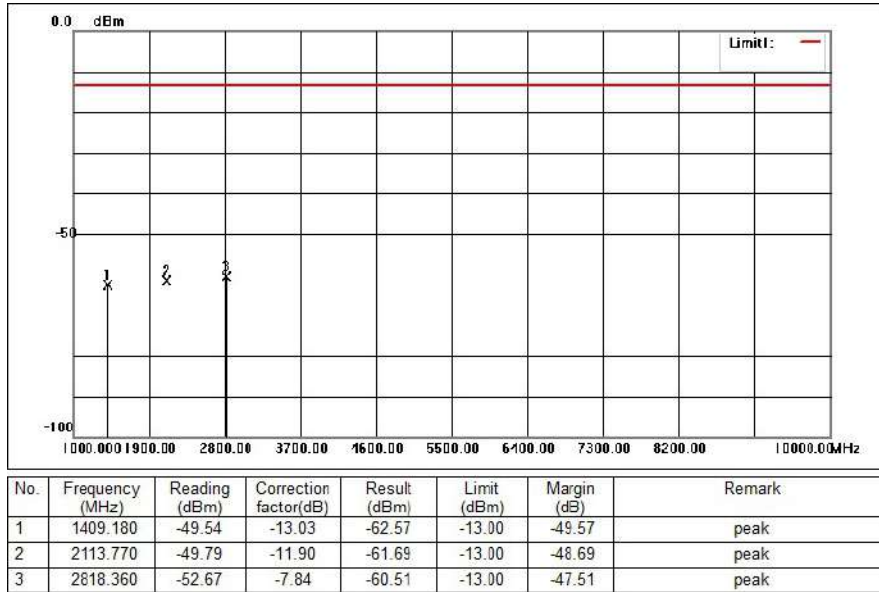
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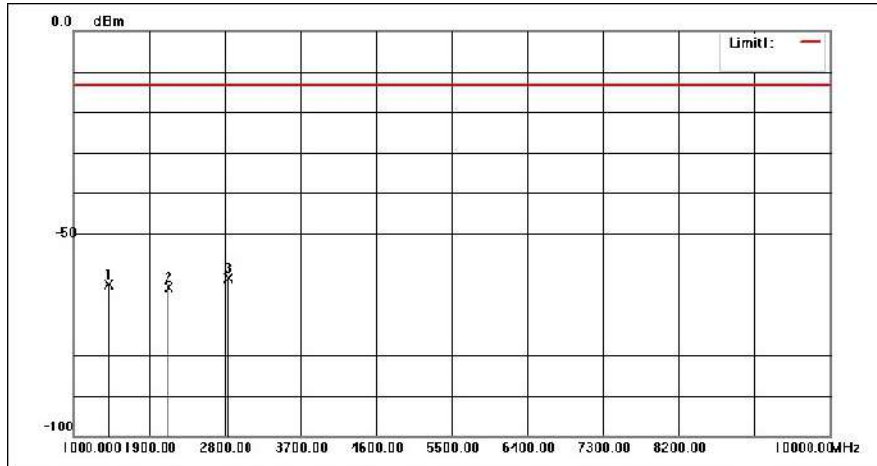
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LTE BAND 17-10MHz-Middle channel

Polarization: H



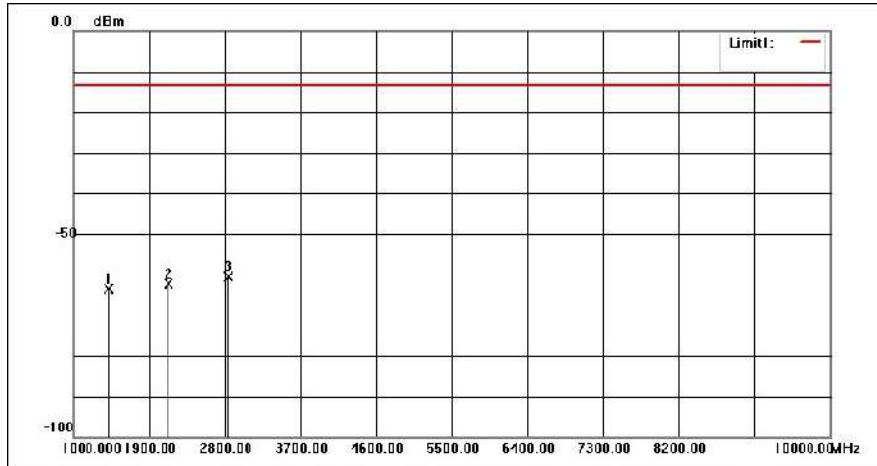
No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1421.180	-49.63	-13.02	-62.65	-13.00	-49.65	peak
2	2131.770	-51.49	-11.79	-63.28	-13.00	-50.28	peak
3	2842.360	-53.47	-7.70	-61.17	-13.00	-48.17	peak



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No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1421.180	-50.64	-13.02	-63.66	-13.00	-50.66	peak
2	2131.770	-50.67	-11.79	-62.46	-13.00	-49.46	peak
3	2842.360	-52.80	-7.70	-60.50	-13.00	-47.50	peak



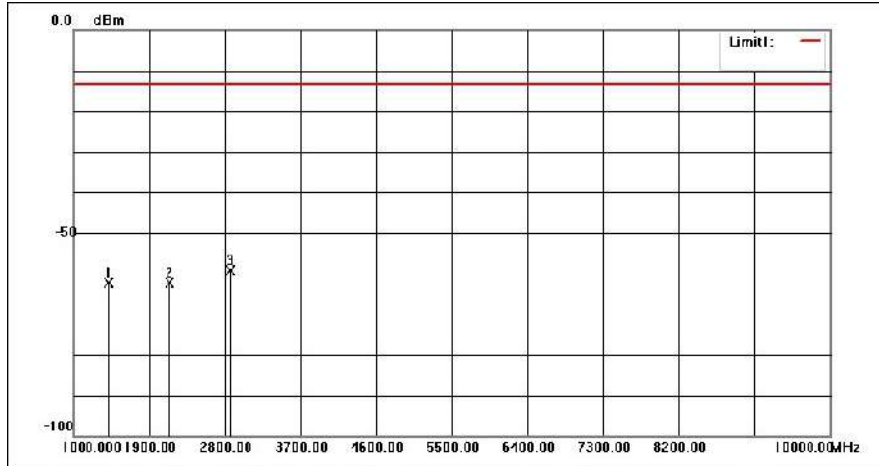
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LTE BAND 17-10MHz-High channel

Polarization: H



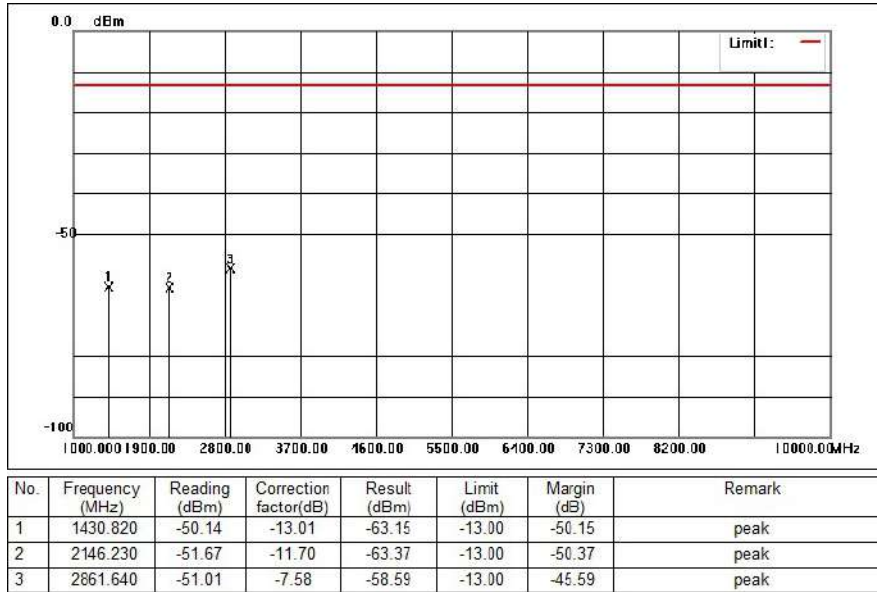
No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1430.820	-49.47	-13.01	-62.48	-13.00	-49.48	peak
2	2146.230	-50.72	-11.70	-62.42	-13.00	-49.42	peak
3	2861.640	-51.68	-7.58	-59.26	-13.00	-46.26	peak



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Remark1:According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.  
Remark2:The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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