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# Appendix B.15

## LTE Band 30



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B30\_5MHz\_EIRP (NPANT003)

1.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNv									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2307.5	1	0	22.21	0.98	23.19	<=23.98	Pass	
			13	22.22	0.98	23.20	<=23.98	Pass	
			24	22.04	0.98	23.02	<=23.98	Pass	
		12	0	21.13	0.98	22.11	<=23.98	Pass	
			6	21.09	0.98	22.07	<=23.98	Pass	
			13	21.01	0.98	21.99	<=23.98	Pass	
		25	0	21.06	0.98	22.04	<=23.98	Pass	
			1	0	22.03	0.98	23.01	<=23.98	Pass
				13	22.10	0.98	23.08	<=23.98	Pass
	24	22.04		0.98	23.02	<=23.98	Pass		
	2310	12	0	21.04	0.98	22.02	<=23.98	Pass	
			6	21.06	0.98	22.04	<=23.98	Pass	
			13	21.03	0.98	22.01	<=23.98	Pass	
		25	0	21.07	0.98	22.05	<=23.98	Pass	
			1	0	22.04	0.98	23.02	<=23.98	Pass
				13	21.94	0.98	22.92	<=23.98	Pass
	24	21.99		0.98	22.97	<=23.98	Pass		
	2312.5	12	0	21.05	0.98	22.03	<=23.98	Pass	
			6	21.09	0.98	22.07	<=23.98	Pass	
			13	20.93	0.98	21.91	<=23.98	Pass	
		25	0	21.05	0.98	22.03	<=23.98	Pass	
			1	0	21.03	0.98	22.01	<=23.98	Pass
				13	21.11	0.98	22.09	<=23.98	Pass
	2307.5	12		24	20.93	0.98	21.91	<=23.98	Pass
0			20.09	0.98	21.07	<=23.98	Pass		
6			20.04	0.98	21.02	<=23.98	Pass		
25		13	19.99	0.98	20.97	<=23.98	Pass		
		1	0	20.05	0.98	21.03	<=23.98	Pass	
			13	21.27	0.98	22.25	<=23.98	Pass	
2310	12		13	21.32	0.98	22.30	<=23.98	Pass	
		24	21.25	0.98	22.23	<=23.98	Pass		
		0	20.03	0.98	21.01	<=23.98	Pass		
	25	6	20.05	0.98	21.03	<=23.98	Pass		
		13	20.01	0.98	20.99	<=23.98	Pass		
		0	19.95	0.98	20.93	<=23.98	Pass		
2312.5	12	0	21.16	0.98	22.14	<=23.98	Pass		
		13	21.11	0.98	22.09	<=23.98	Pass		
		24	21.03	0.98	22.01	<=23.98	Pass		
	25	0	19.97	0.98	20.95	<=23.98	Pass		
		1	6	19.97	0.98	20.95	<=23.98	Pass	



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		13	19.84	0.98	20.82	<=23.98	Pass
	25	0	19.96	0.98	20.94	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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1.2 B30\_5MHz\_EIRP/10MHz

1.2.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/10MHz (dBm/5MHz)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2307.5	1	0	21.51	0.98	22.49	<=23.98	Pass		
			13	21.32	0.98	22.30	<=23.98	Pass		
			24	21.11	0.98	22.09	<=23.98	Pass		
		12	0	20.34	0.98	21.32	<=23.98	Pass		
			6	20.44	0.98	21.42	<=23.98	Pass		
			13	20.35	0.98	21.33	<=23.98	Pass		
		25	0	20.22	0.98	21.20	<=23.98	Pass		
		2310	1	0	21.29	0.98	22.27	<=23.98	Pass	
				13	21.29	0.98	22.27	<=23.98	Pass	
	24			21.37	0.98	22.35	<=23.98	Pass		
	12		0	20.21	0.98	21.19	<=23.98	Pass		
			6	20.38	0.98	21.36	<=23.98	Pass		
			13	20.29	0.98	21.27	<=23.98	Pass		
	25		0	20.32	0.98	21.30	<=23.98	Pass		
	2312.5		1	0	21.36	0.98	22.34	<=23.98	Pass	
				13	21.29	0.98	22.27	<=23.98	Pass	
		24		21.26	0.98	22.24	<=23.98	Pass		
		12	0	20.25	0.98	21.23	<=23.98	Pass		
			6	20.50	0.98	21.48	<=23.98	Pass		
			13	20.14	0.98	21.12	<=23.98	Pass		
		25	0	20.30	0.98	21.28	<=23.98	Pass		
		16QAM	2307.5	1	0	20.35	0.98	21.33	<=23.98	Pass
					13	20.40	0.98	21.38	<=23.98	Pass
	24				20.30	0.98	21.28	<=23.98	Pass	
12	0			19.21	0.98	20.19	<=23.98	Pass		
	6			19.31	0.98	20.29	<=23.98	Pass		
	13			19.10	0.98	20.08	<=23.98	Pass		
25	0			19.21	0.98	20.19	<=23.98	Pass		
2310	1			0	20.33	0.98	21.31	<=23.98	Pass	
				13	20.71	0.98	21.69	<=23.98	Pass	
			24	20.51	0.98	21.49	<=23.98	Pass		
	12		0	19.14	0.98	20.12	<=23.98	Pass		
			6	19.23	0.98	20.21	<=23.98	Pass		
			13	19.19	0.98	20.17	<=23.98	Pass		
	25		0	19.21	0.98	20.19	<=23.98	Pass		
	2312.5		1	0	20.49	0.98	21.47	<=23.98	Pass	
				13	20.72	0.98	21.70	<=23.98	Pass	
24				20.41	0.98	21.39	<=23.98	Pass		
12			0	19.20	0.98	20.18	<=23.98	Pass		
			6	19.24	0.98	20.22	<=23.98	Pass		
			13	19.16	0.98	20.14	<=23.98	Pass		
25			0	19.24	0.98	20.22	<=23.98	Pass		



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Note1: EIRP/10MHz=Conducted Power+Antenna Gain-2.15



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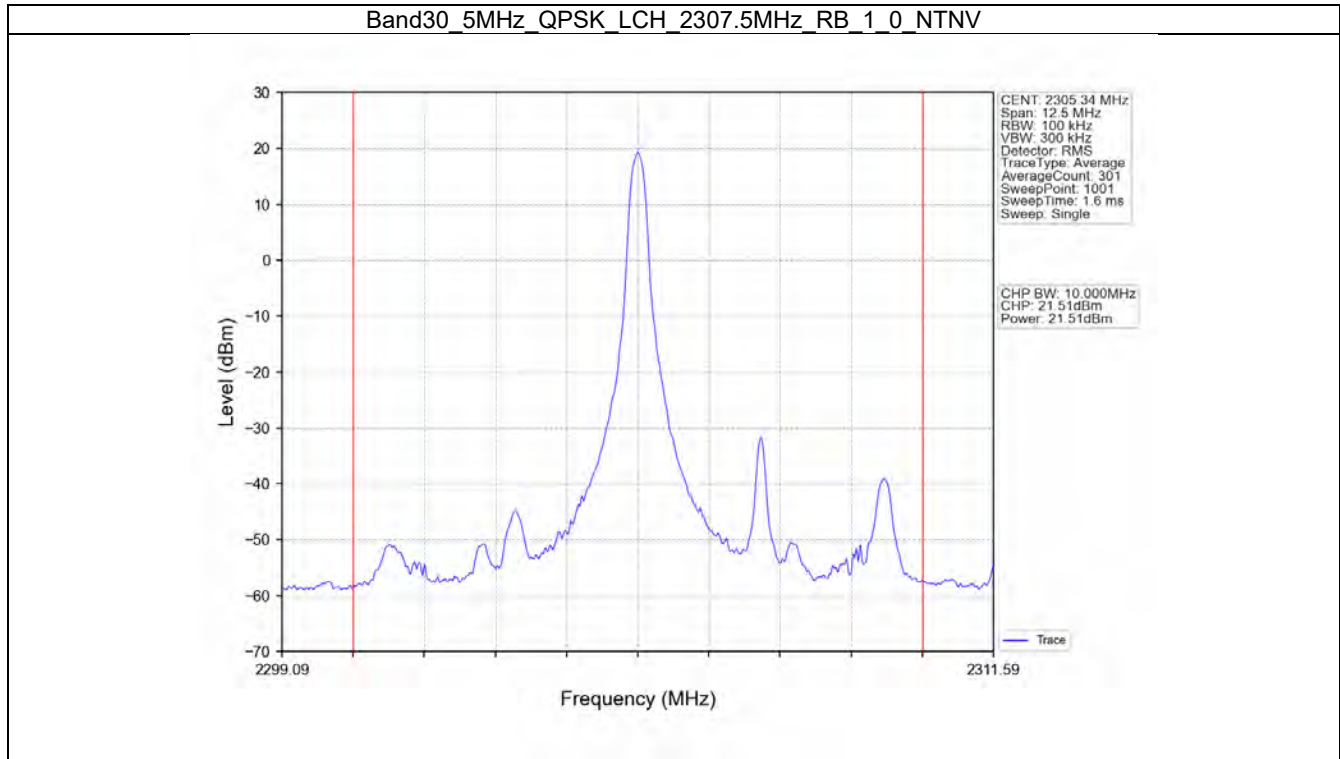
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1.2.2 Test Graph



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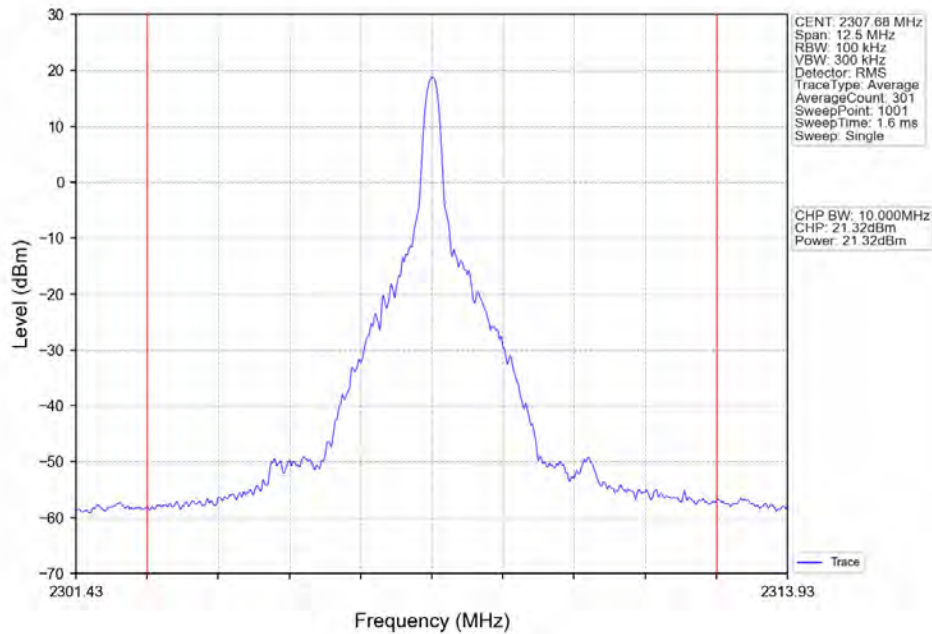
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Band30\_5MHz\_QPSK\_LCH\_2307.5MHz\_RB\_1\_13\_NTNV



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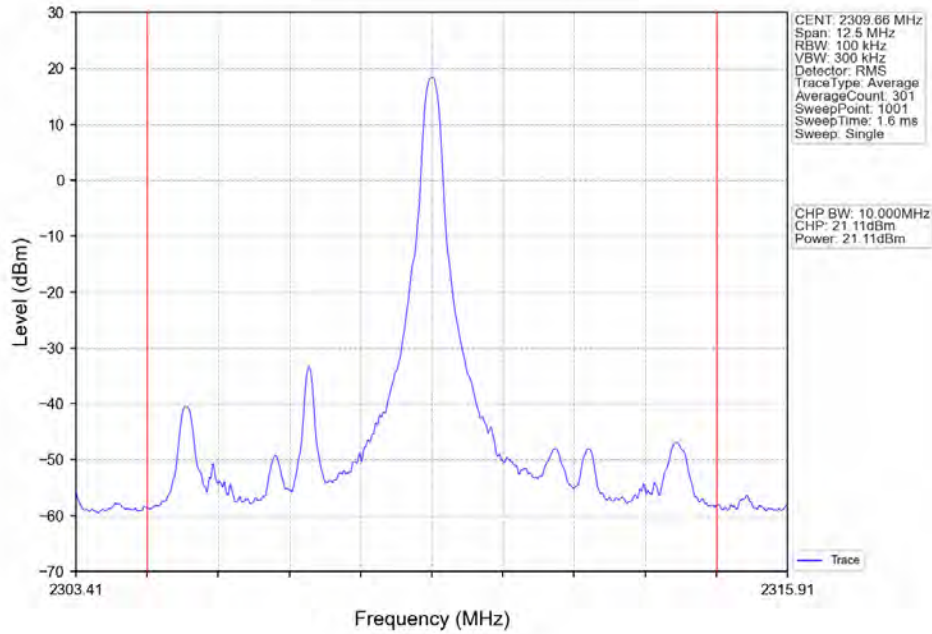
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Band30\_5MHz\_QPSK\_LCH\_2307.5MHz\_RB\_1\_24\_NTNV



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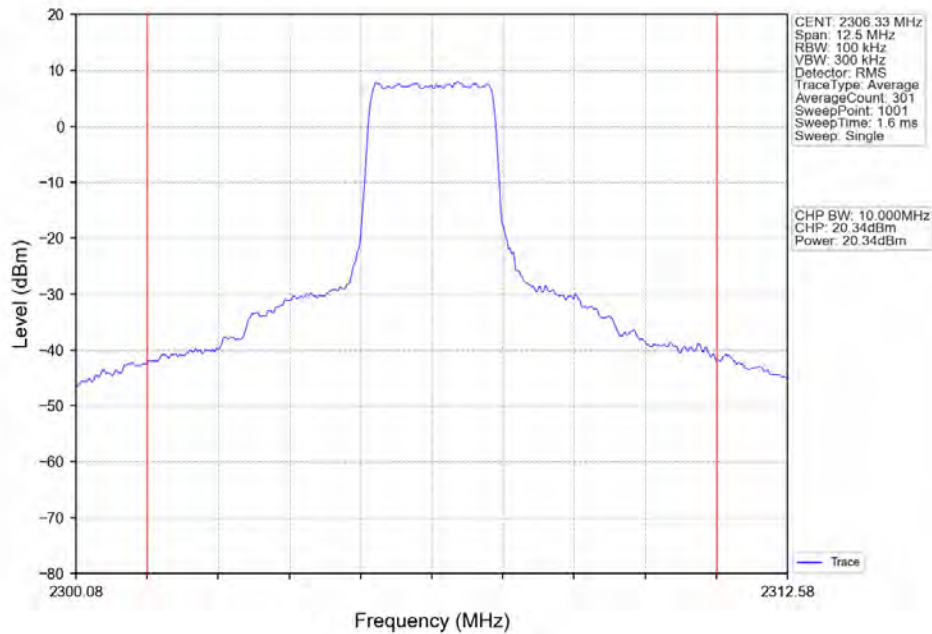


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Band30\_5MHz\_QPSK\_LCH\_2307.5MHz\_RB\_12\_0\_NTNV



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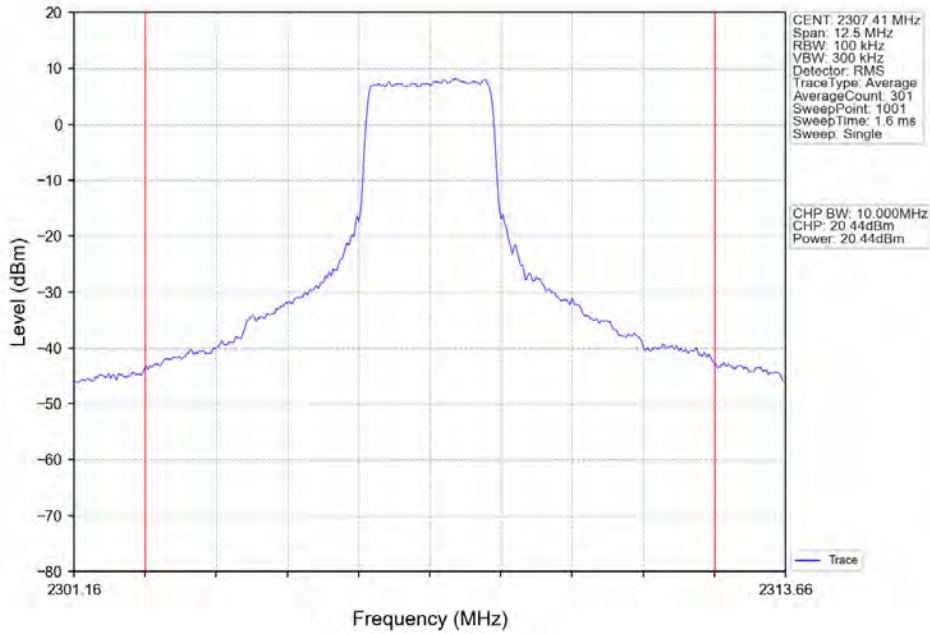
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Band30\_5MHz\_QPSK\_LCH\_2307.5MHz\_RB\_12\_6\_NTNV



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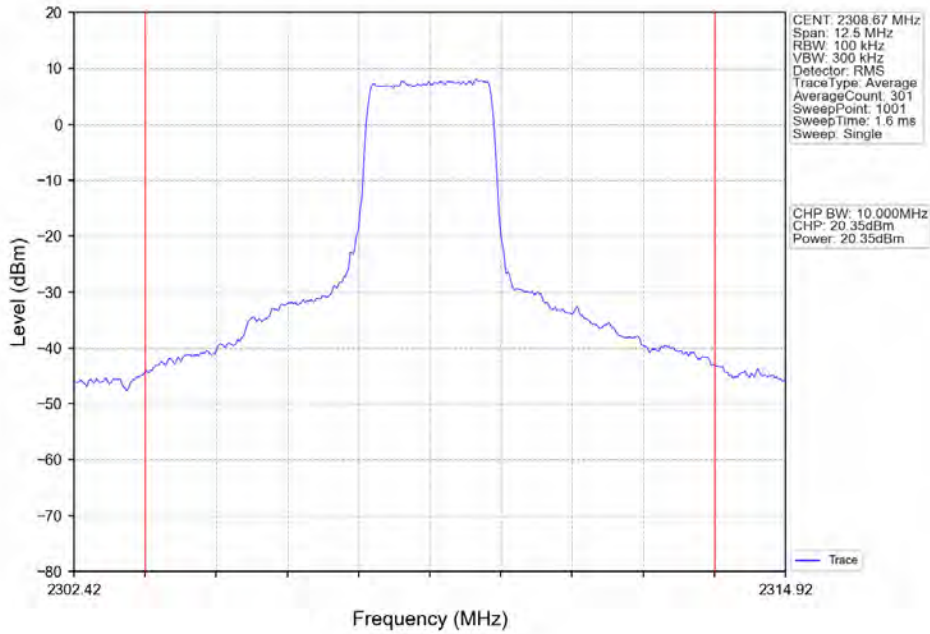
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Band30\_5MHz\_QPSK\_LCH\_2307.5MHz\_RB\_12\_13\_NTNV



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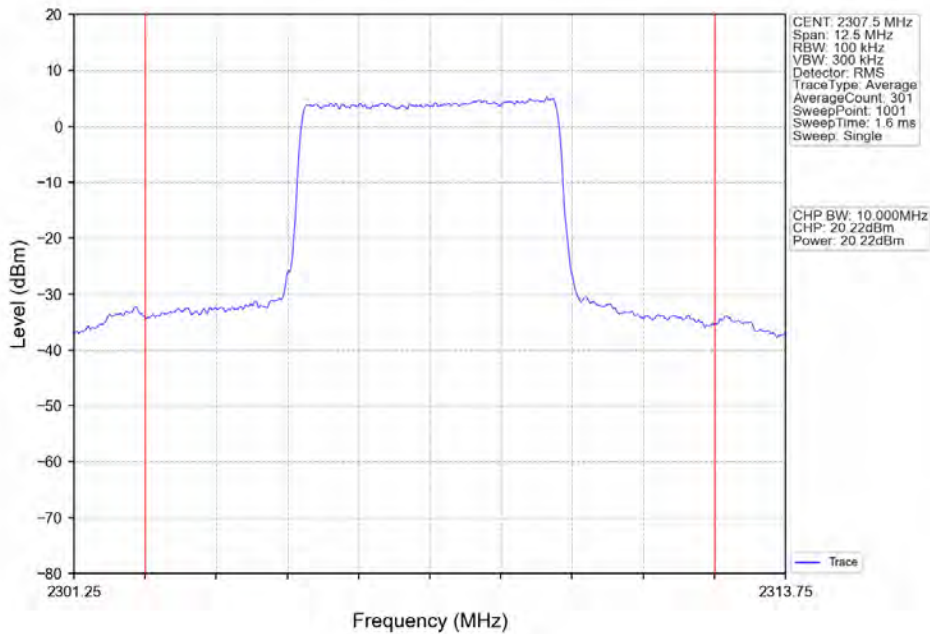
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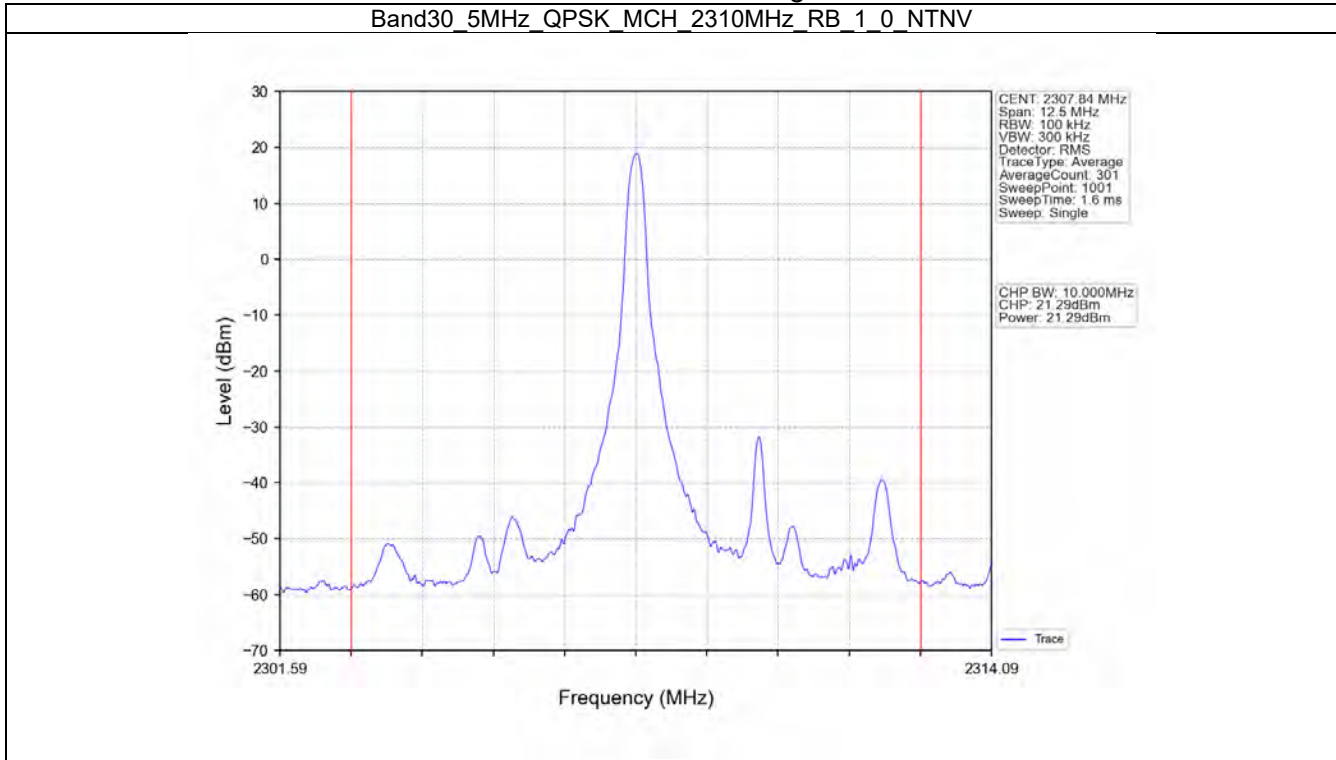


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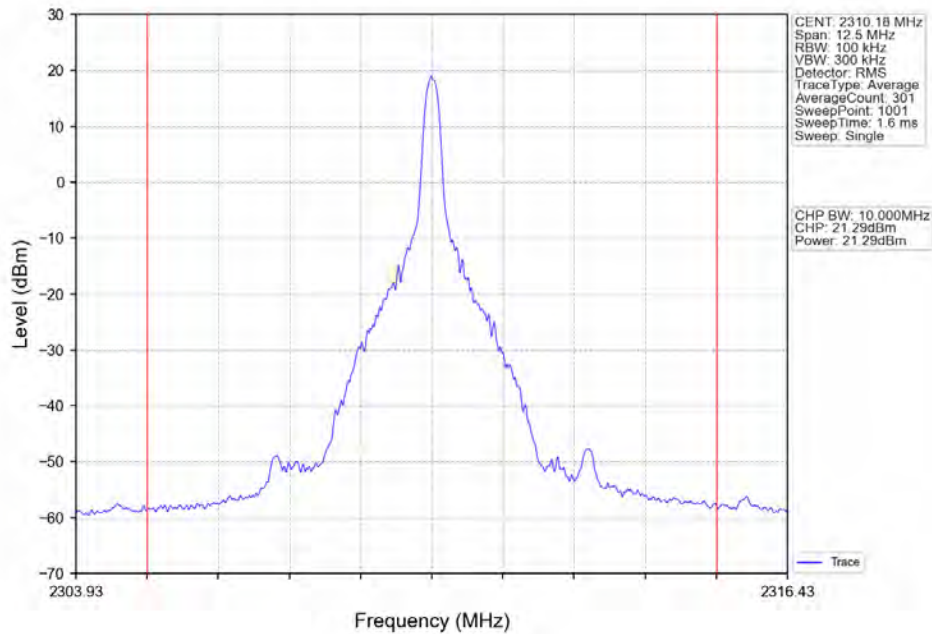


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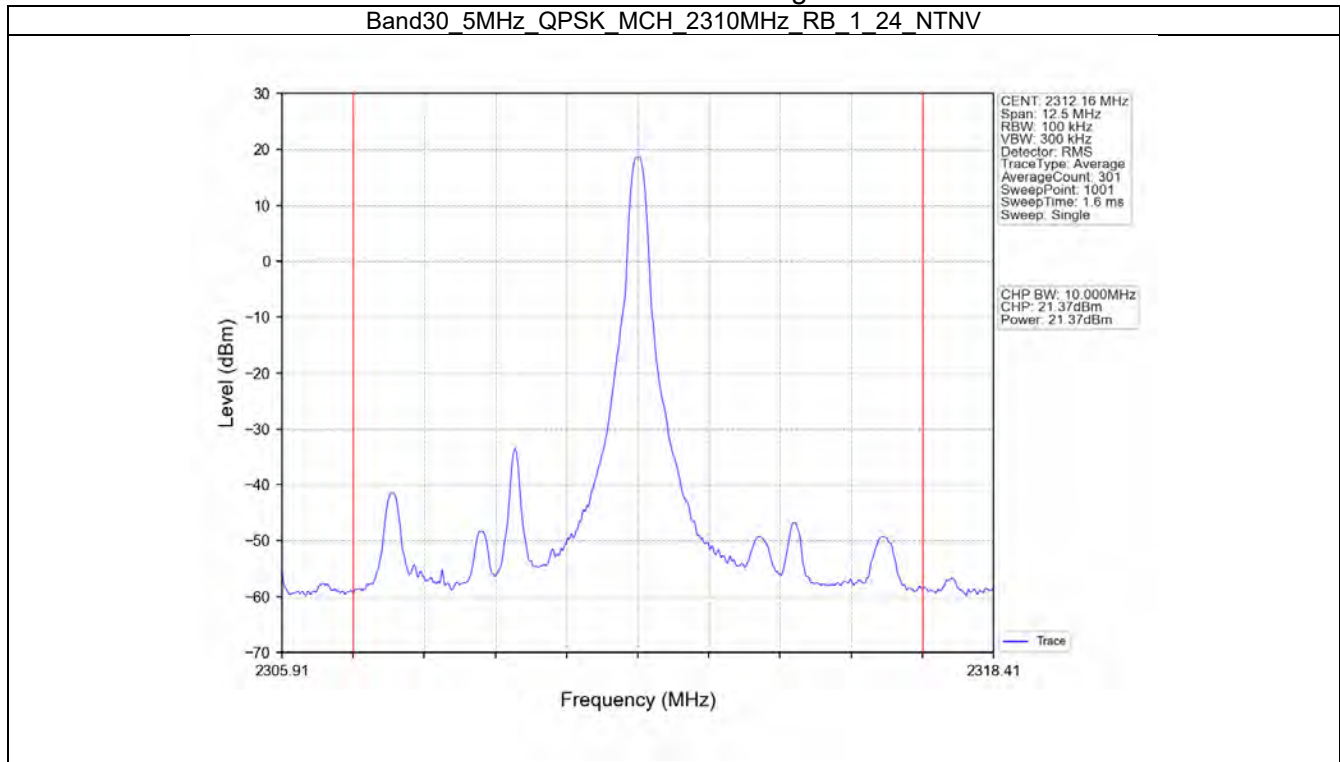
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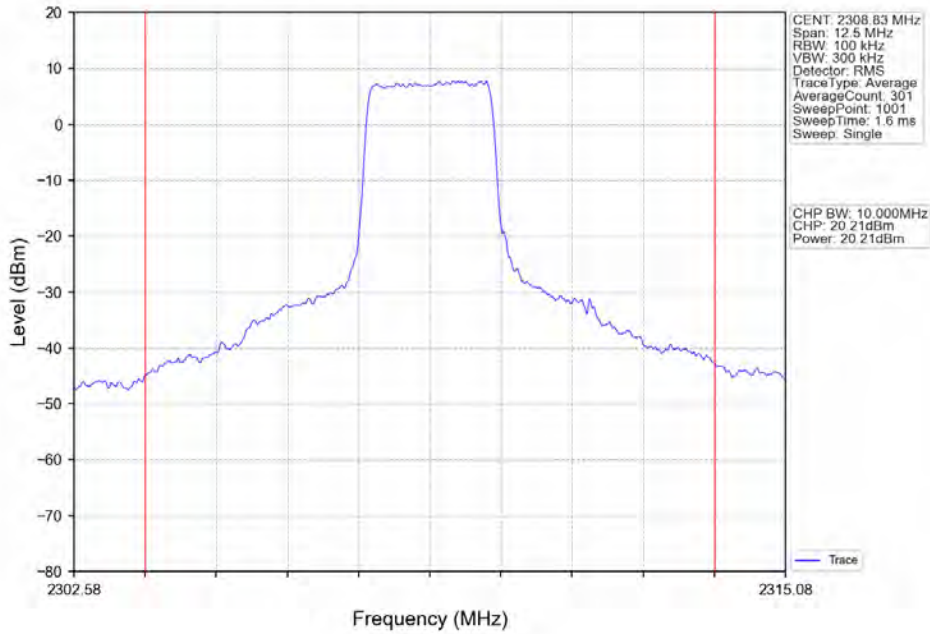
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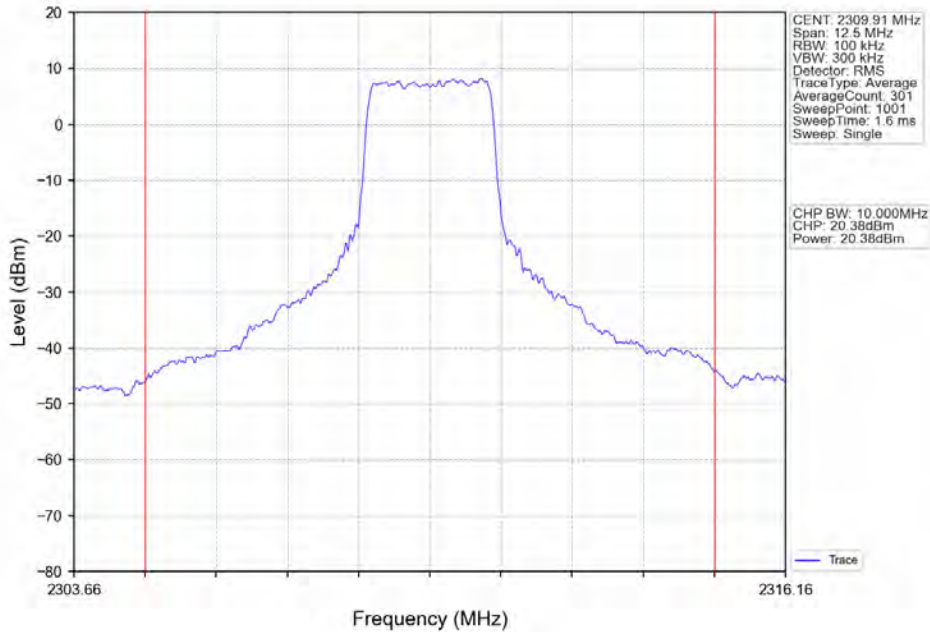
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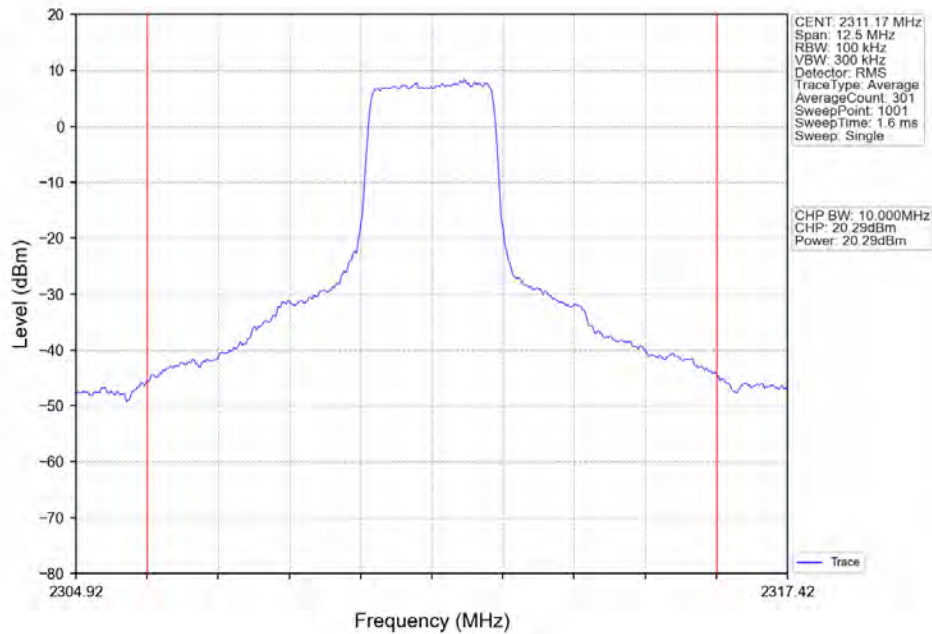


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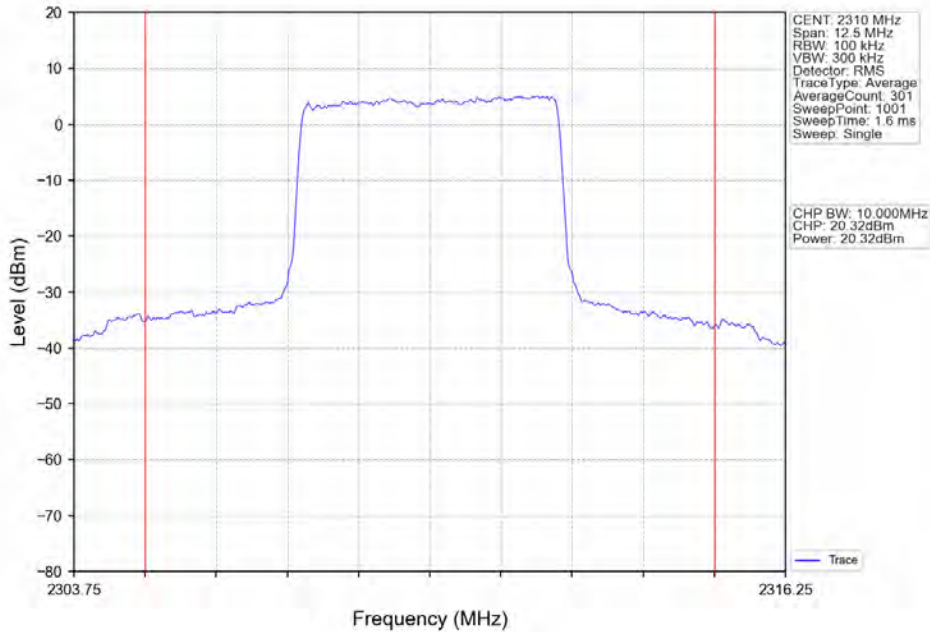


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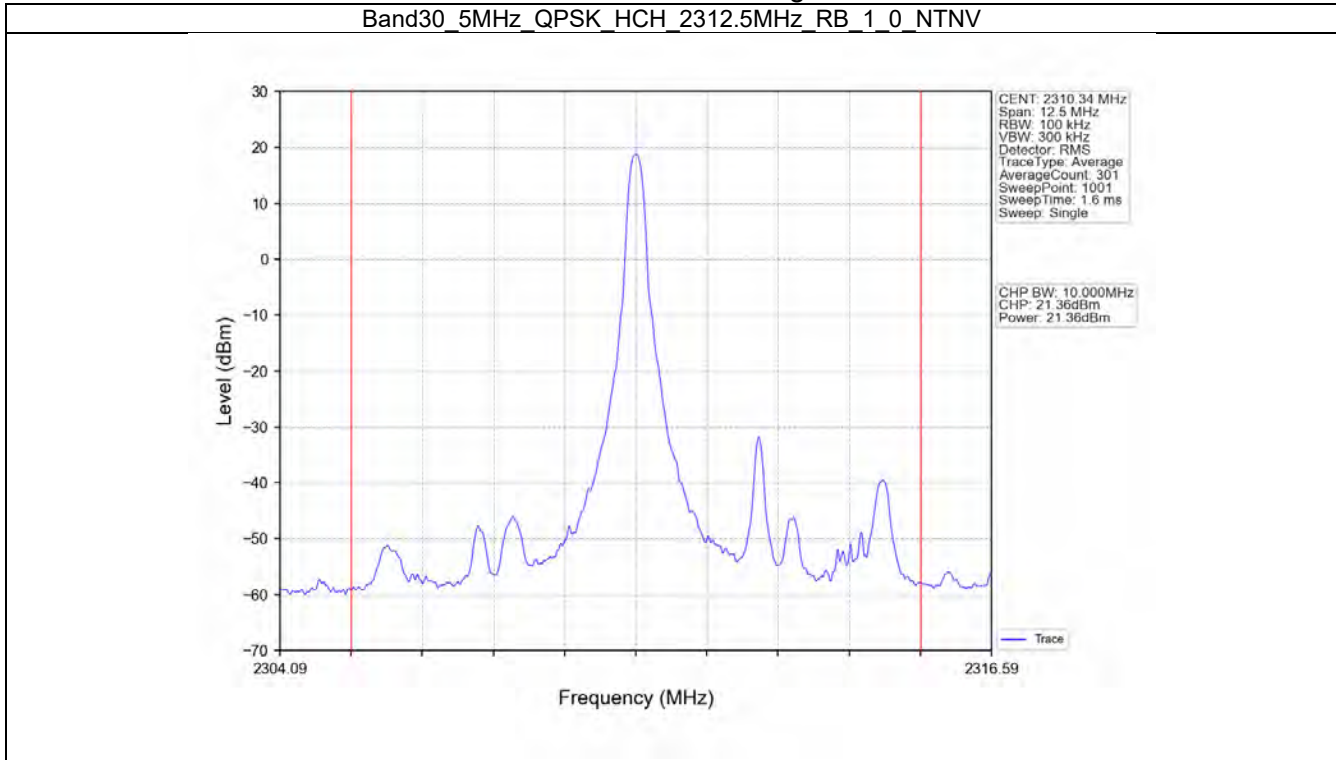
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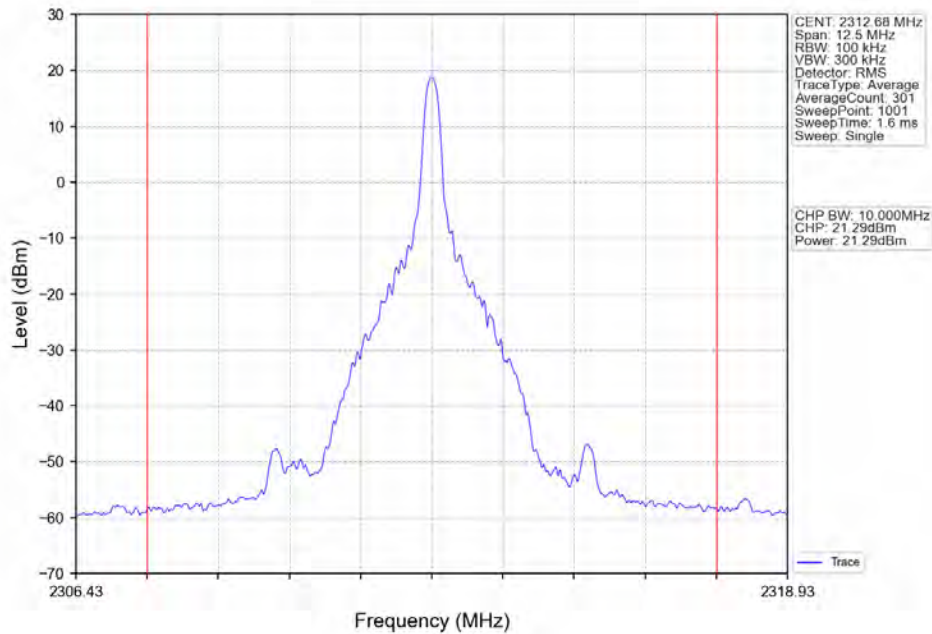
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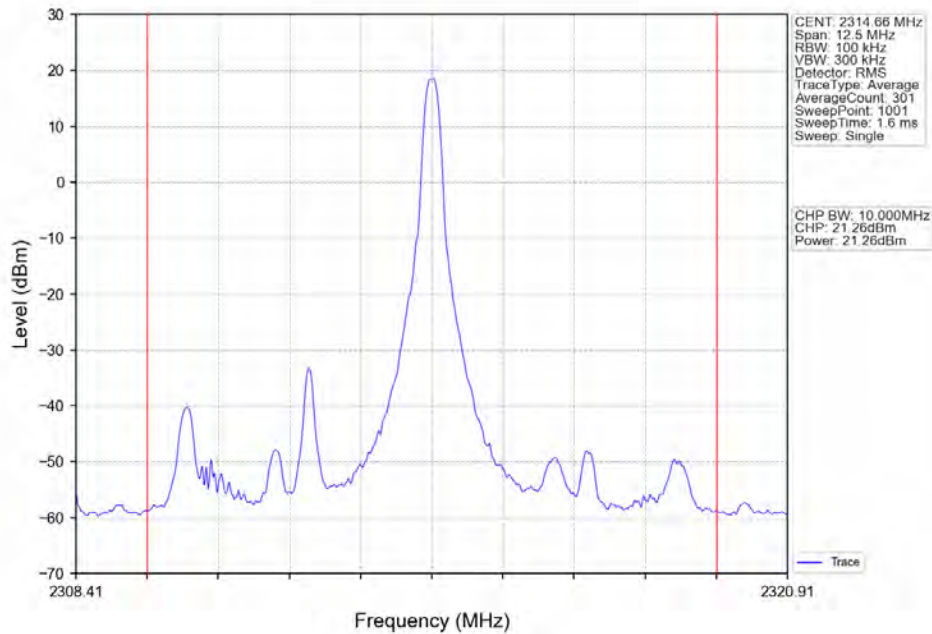


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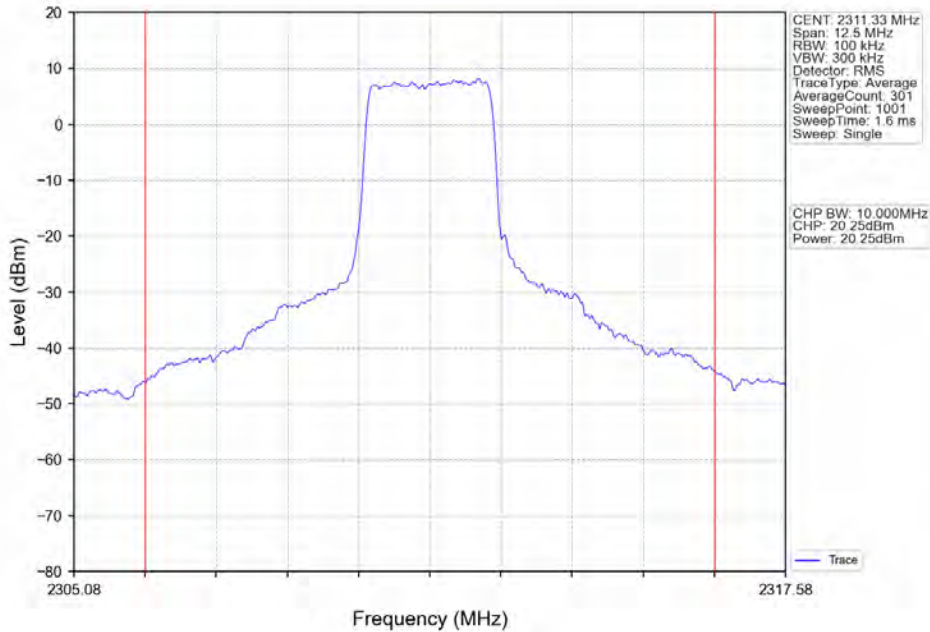


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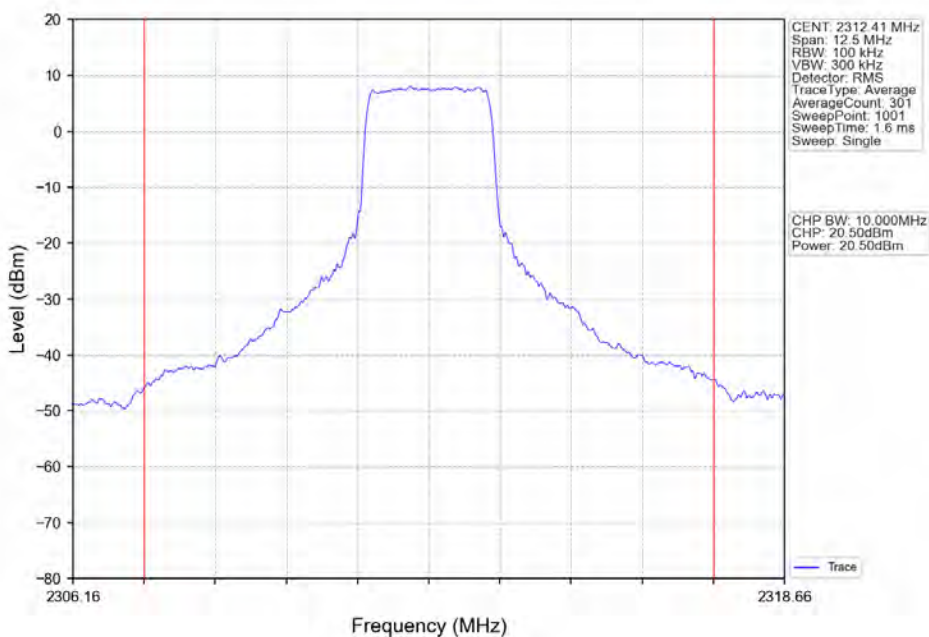
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Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_12\_6\_NTNV



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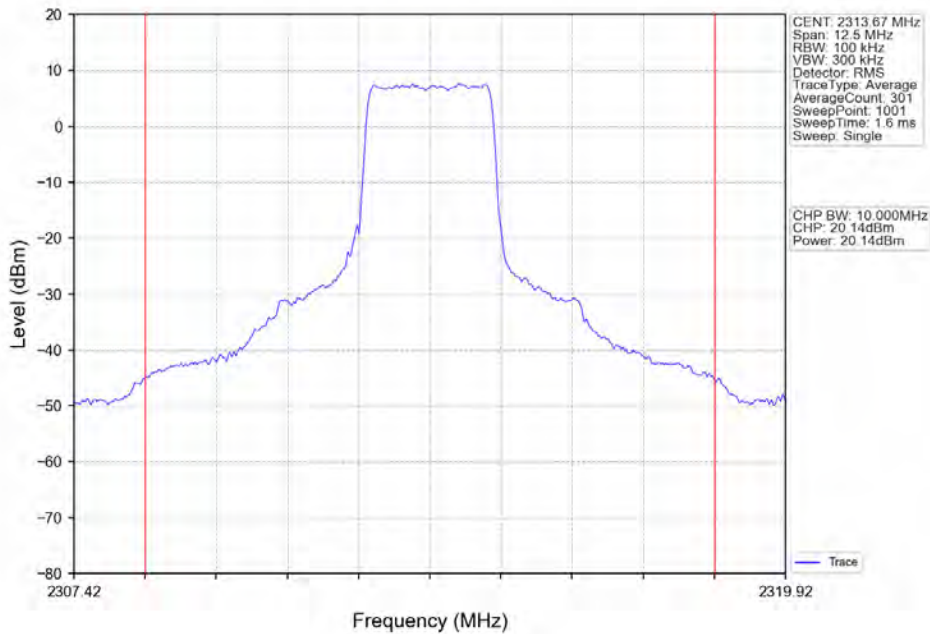
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Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_12\_13\_NTNV



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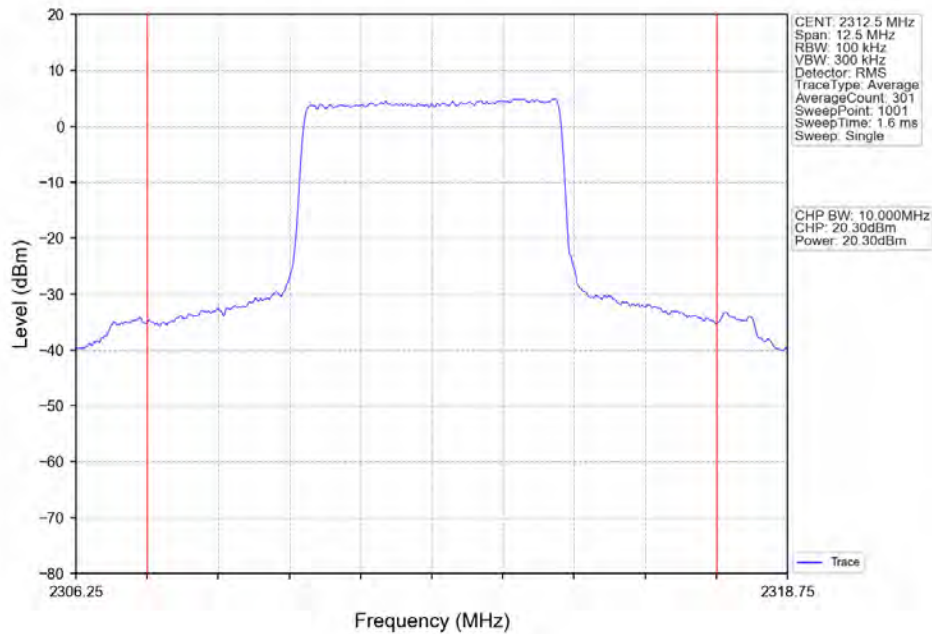
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Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_25\_0\_NTNV



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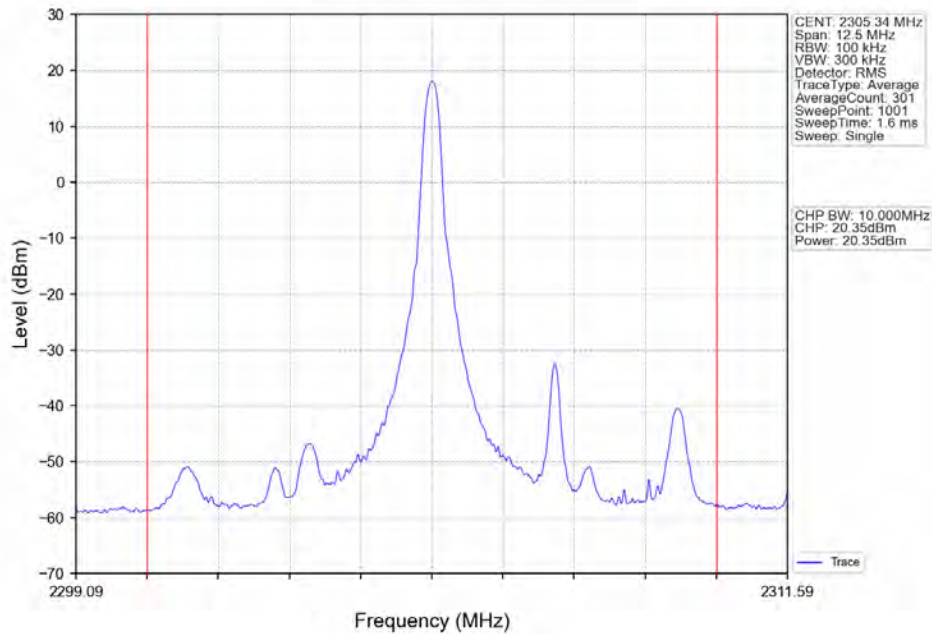
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Band30\_5MHz\_16QAM\_LCH\_2307.5MHz\_RB\_1\_0\_NTNV



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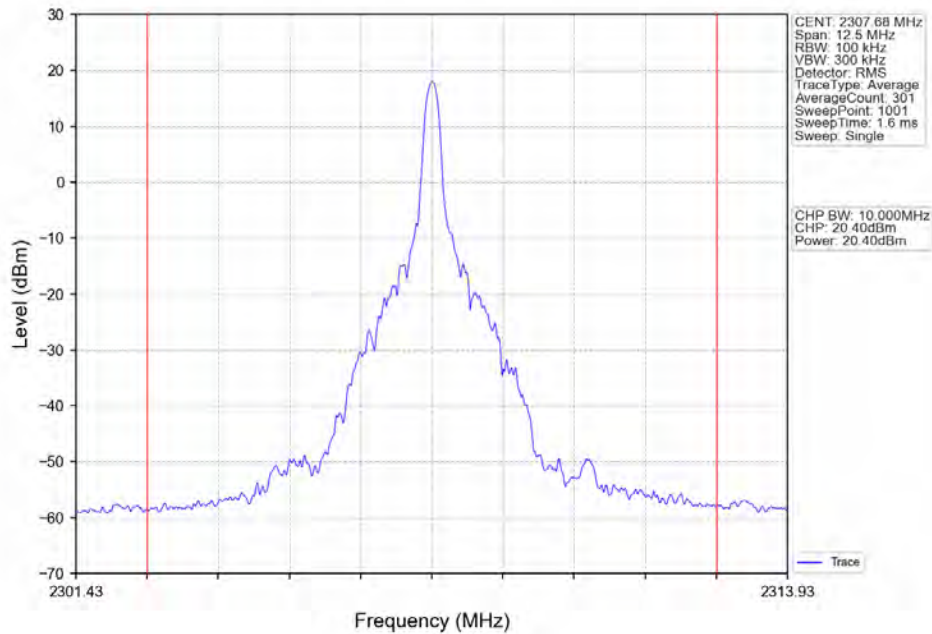


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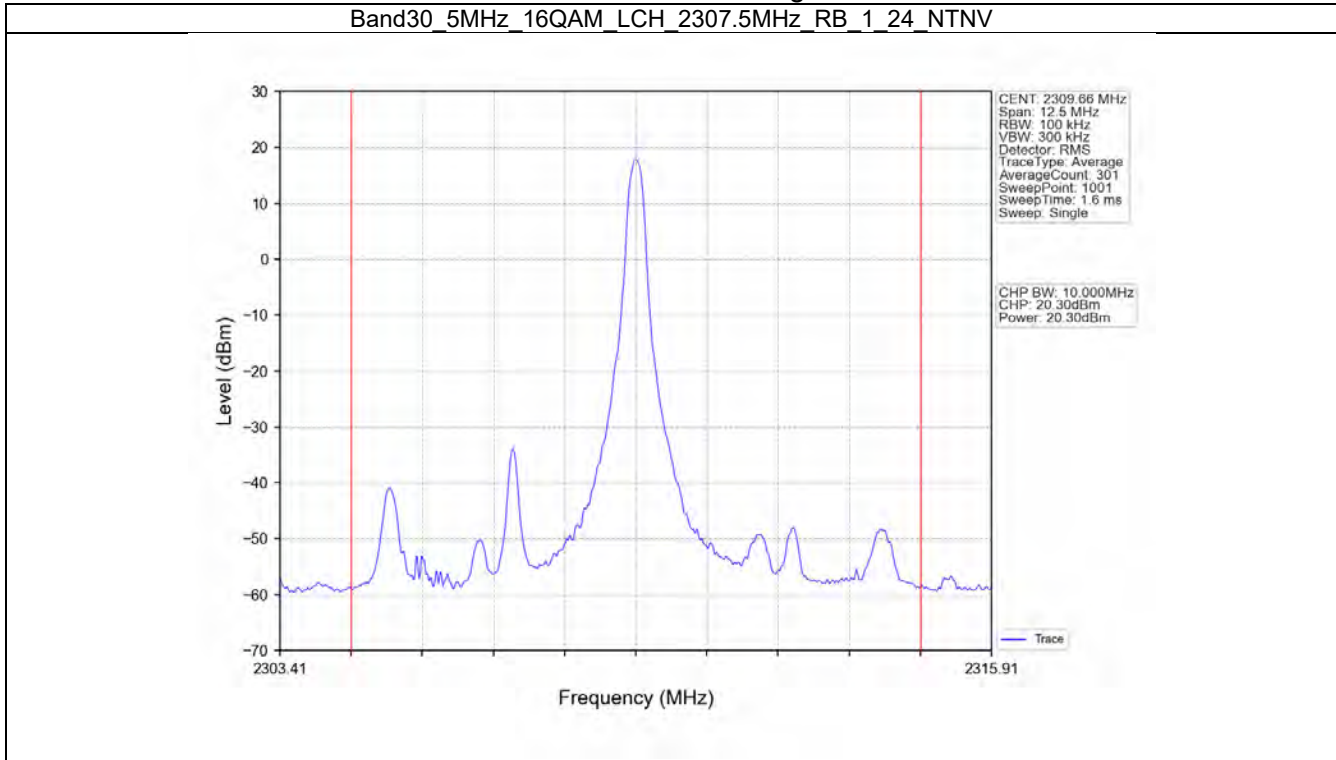


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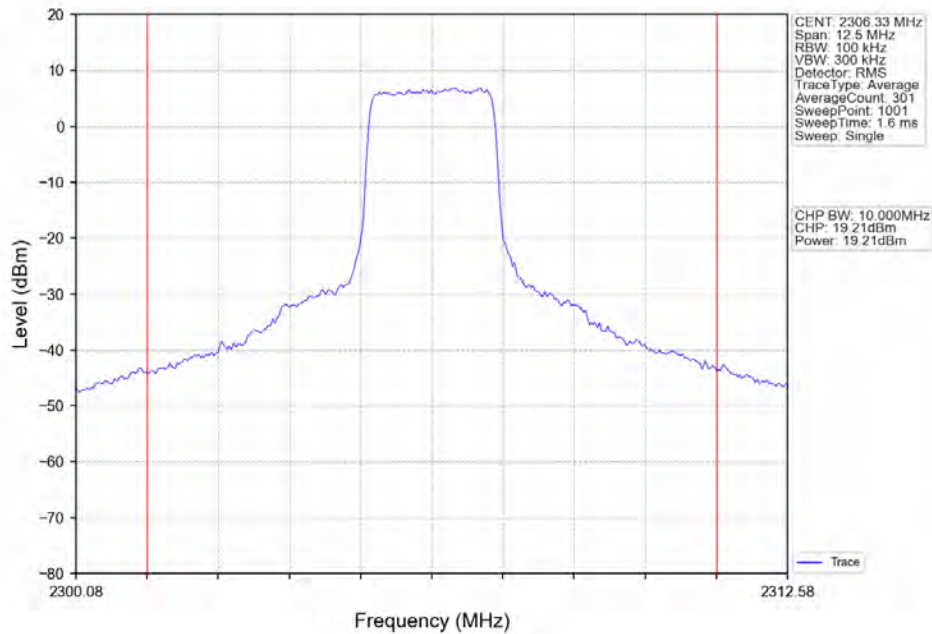
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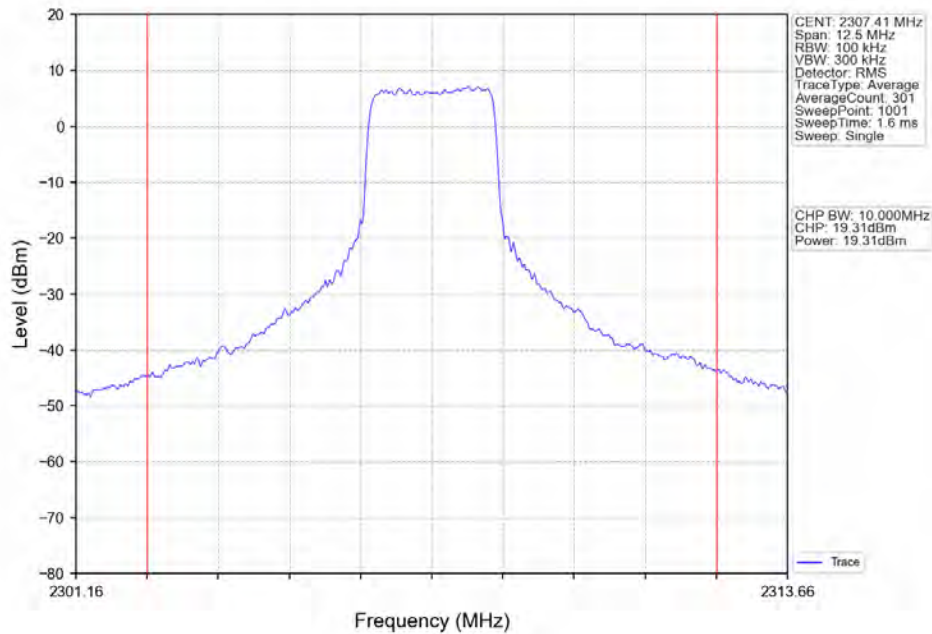
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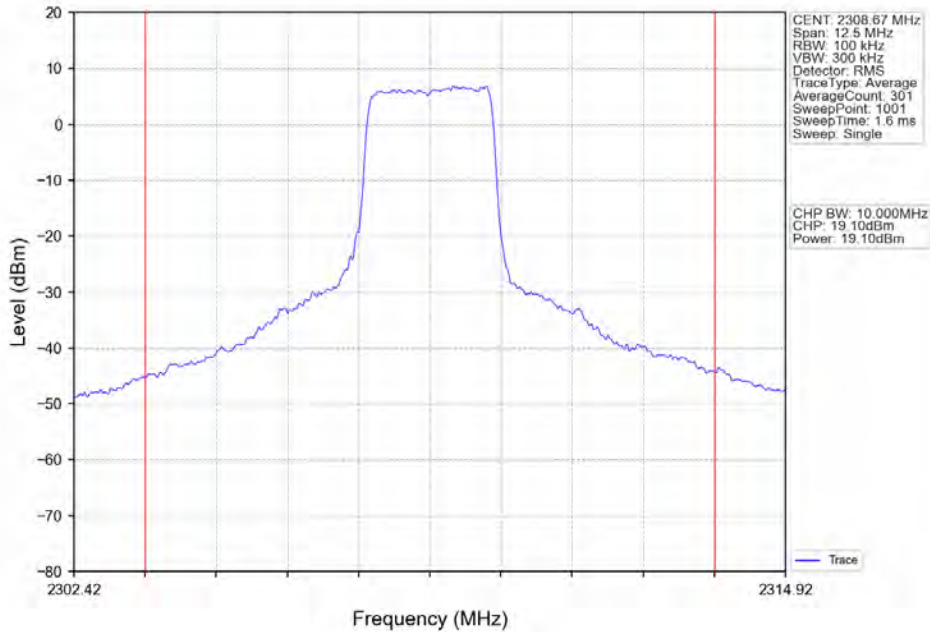
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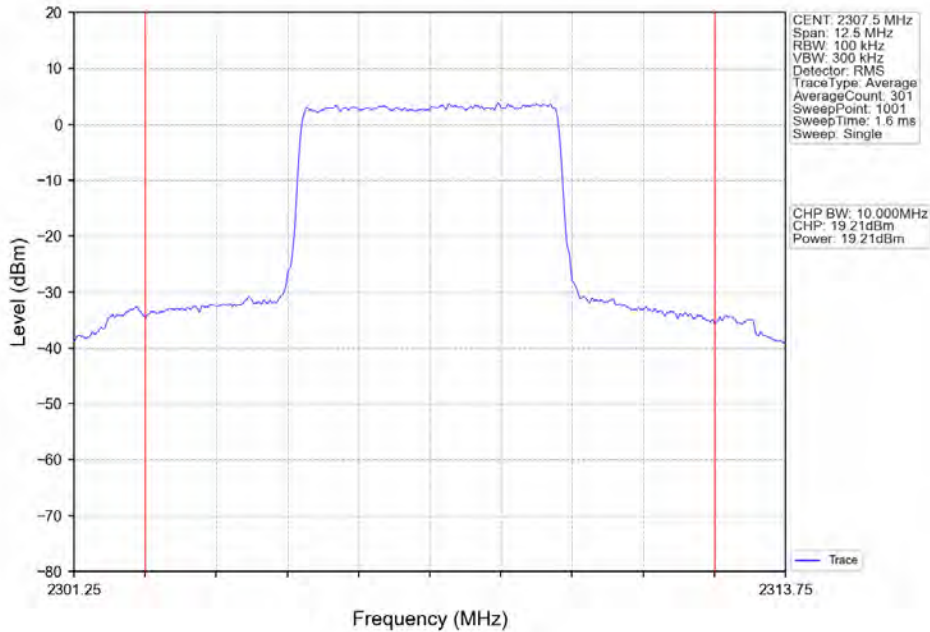


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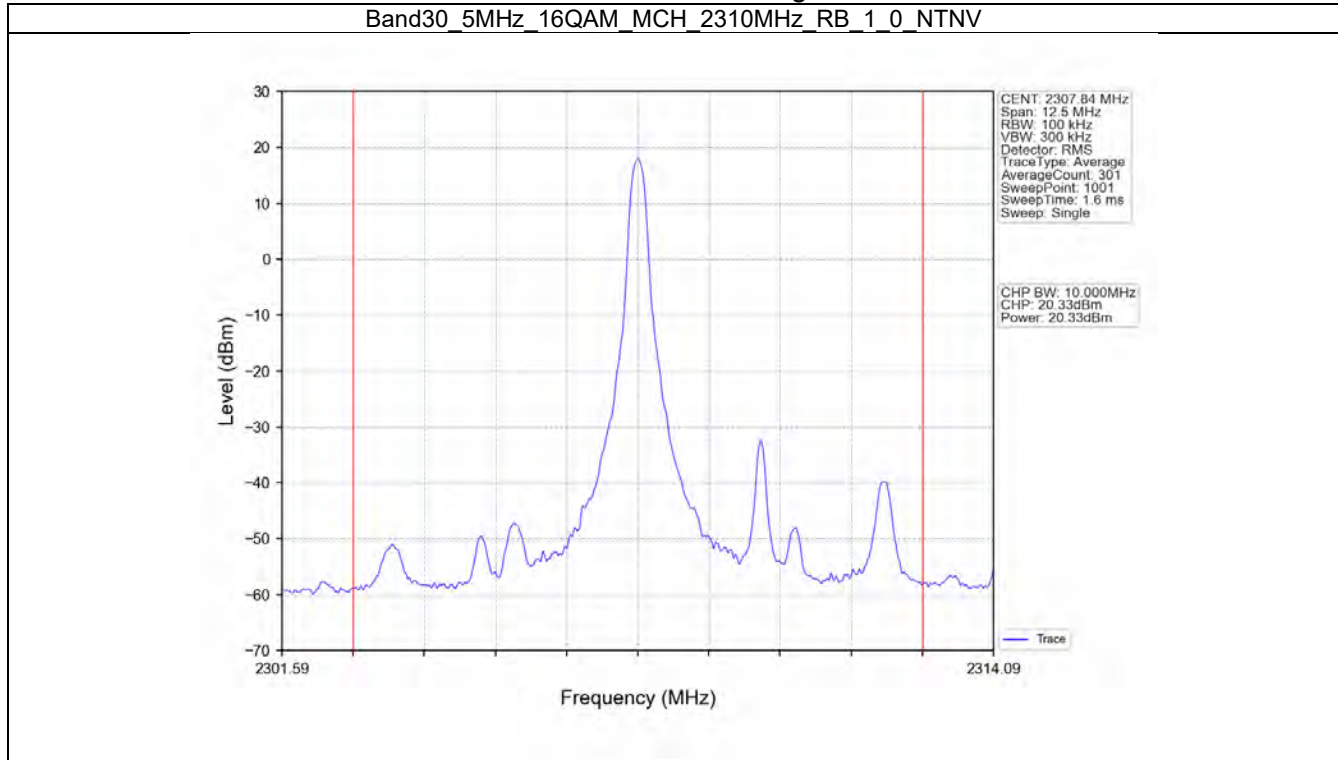
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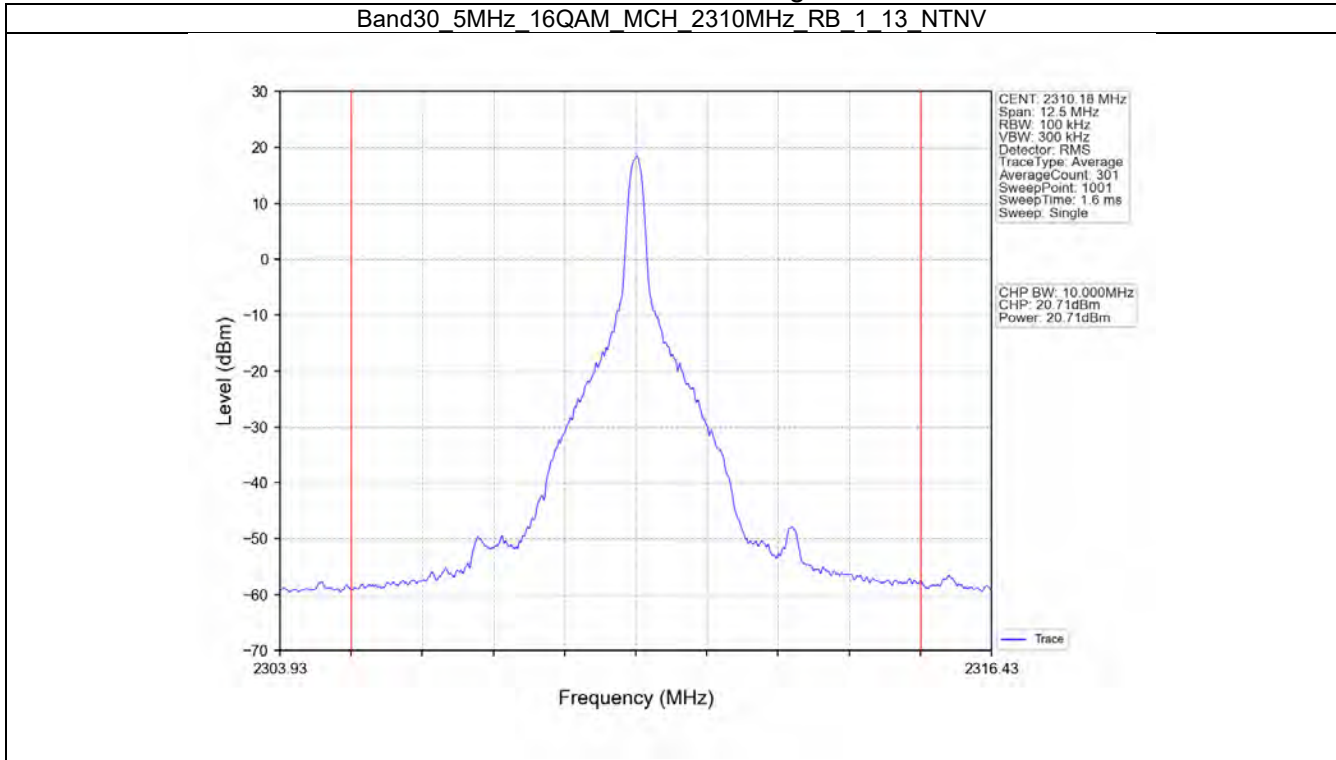
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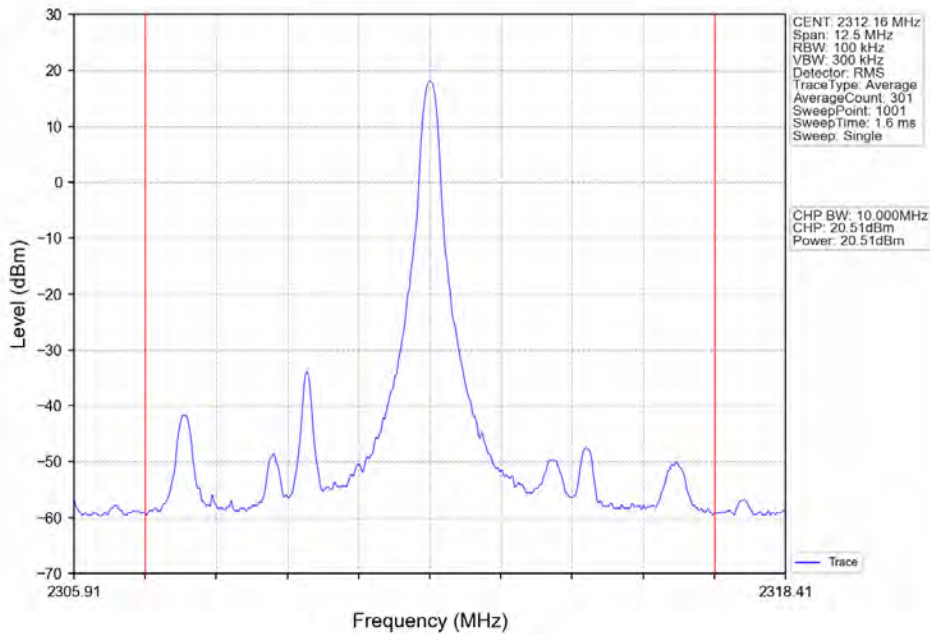
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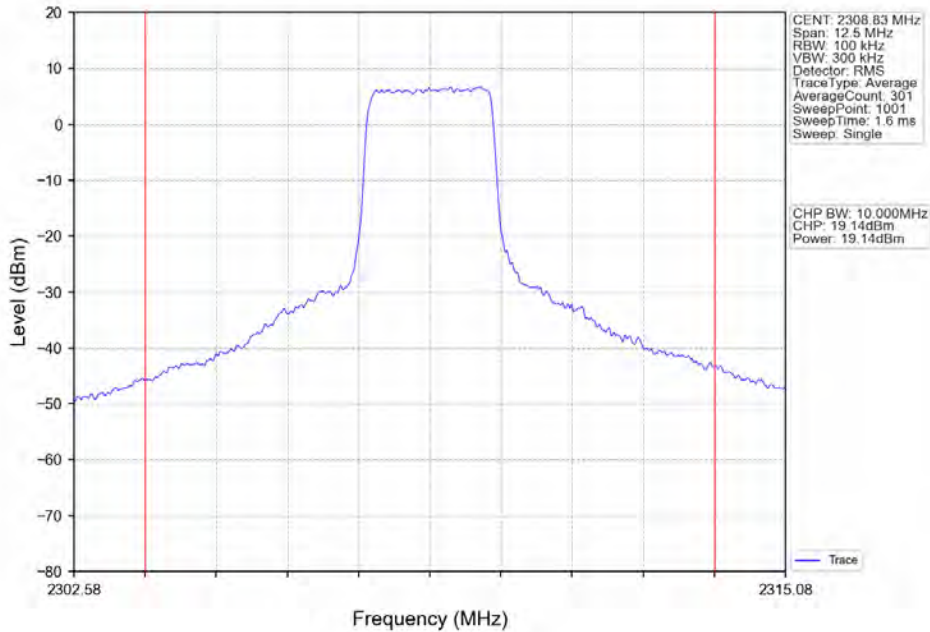


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Band30\_5MHz\_16QAM\_MCH\_2310MHz\_RB\_12\_0\_NTNV



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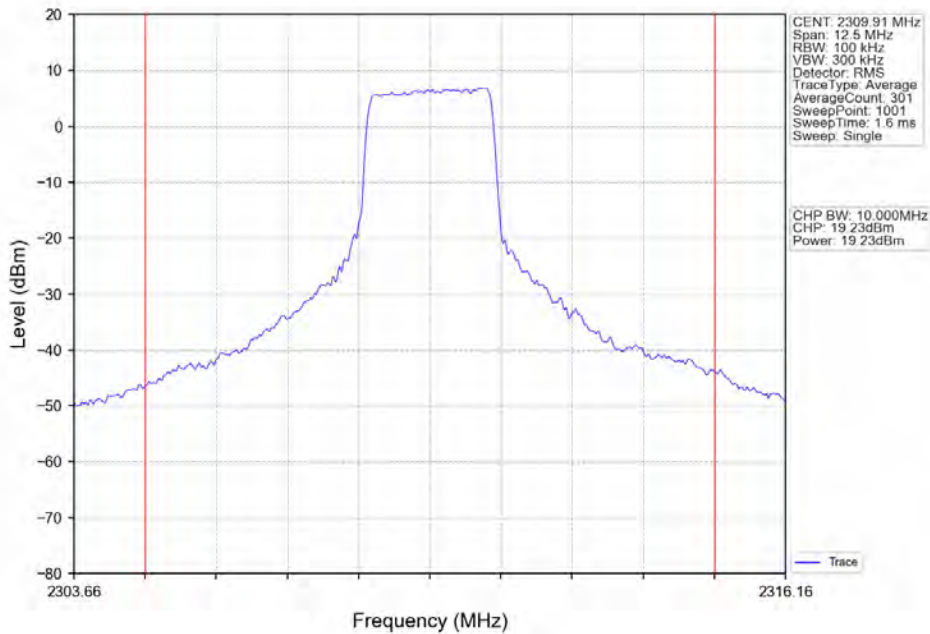
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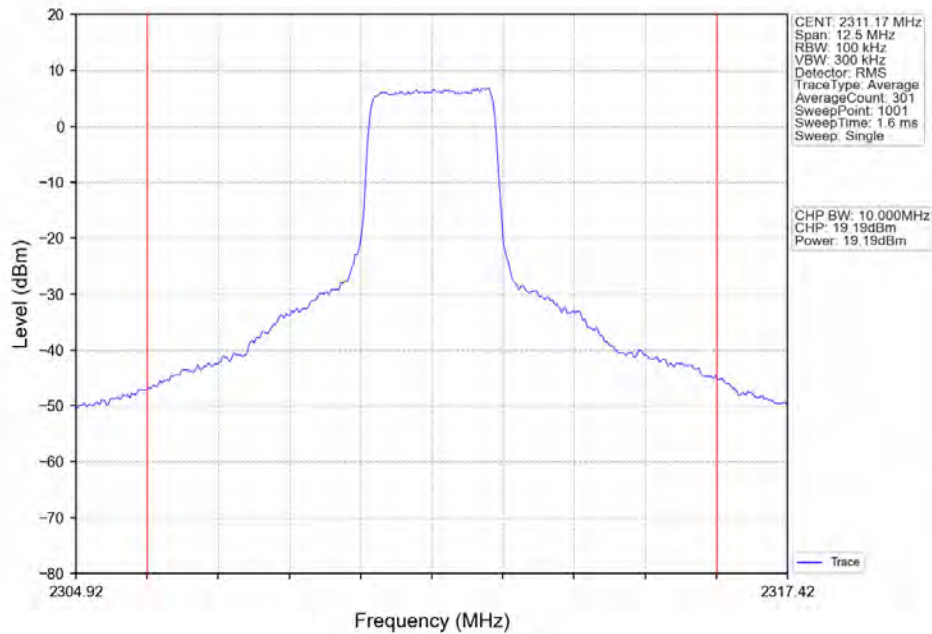
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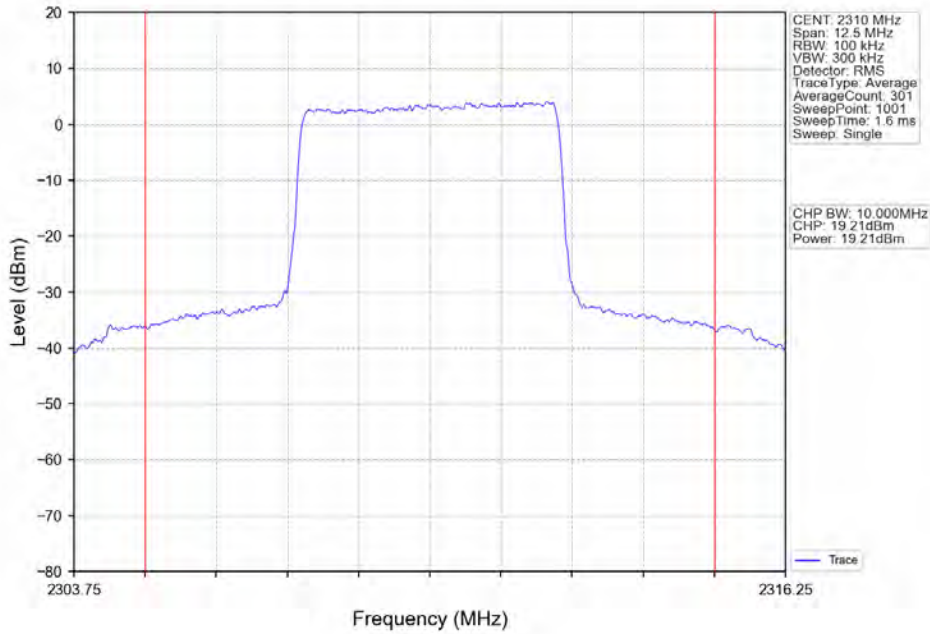
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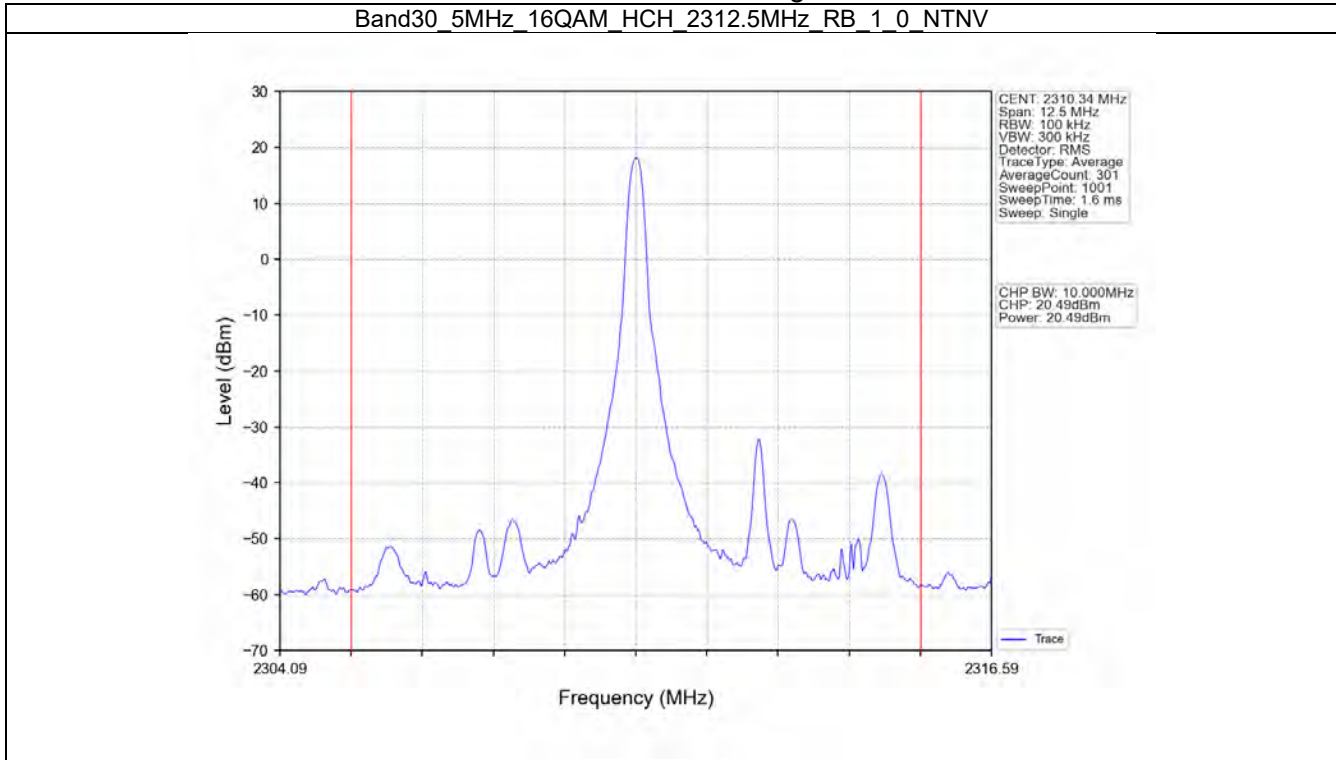


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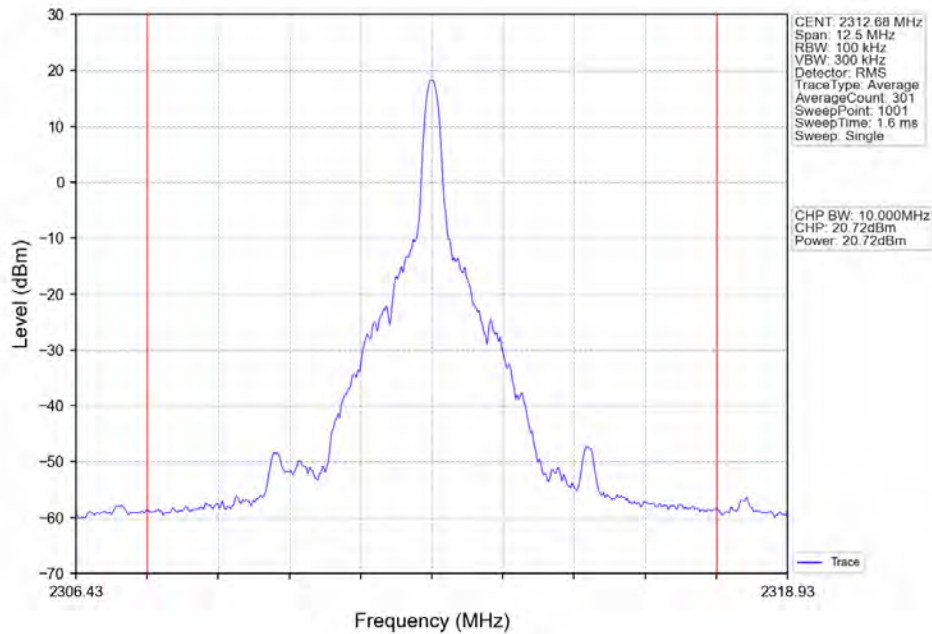
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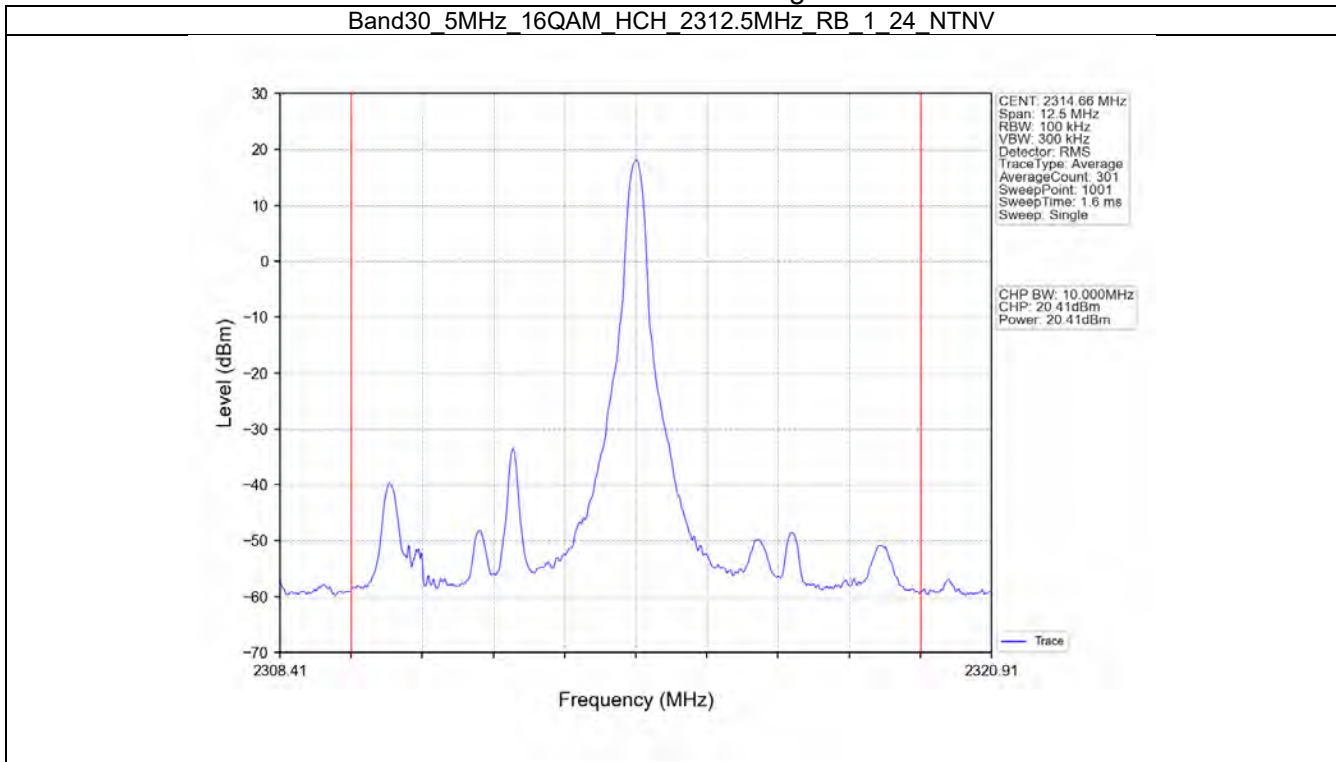
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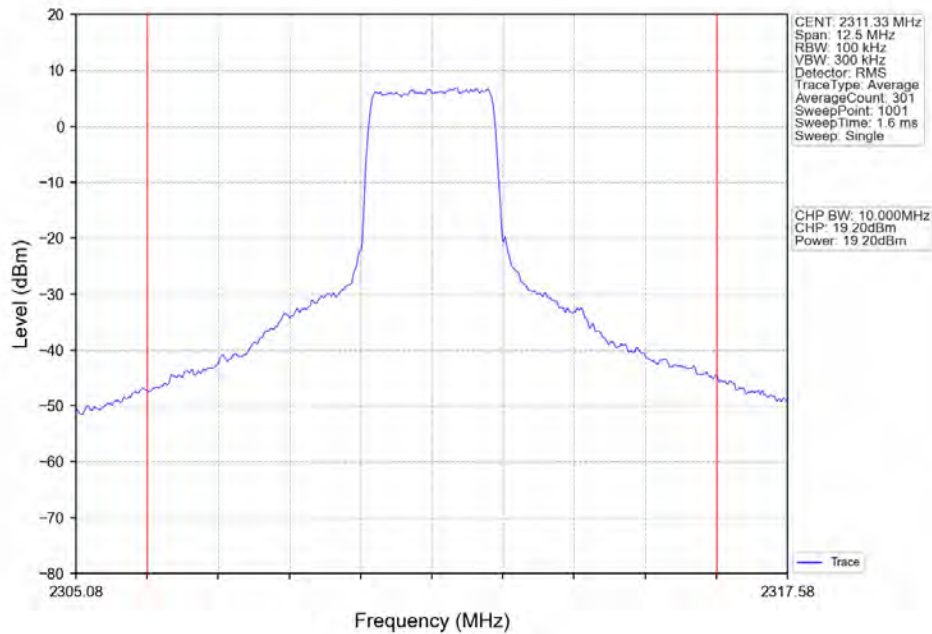
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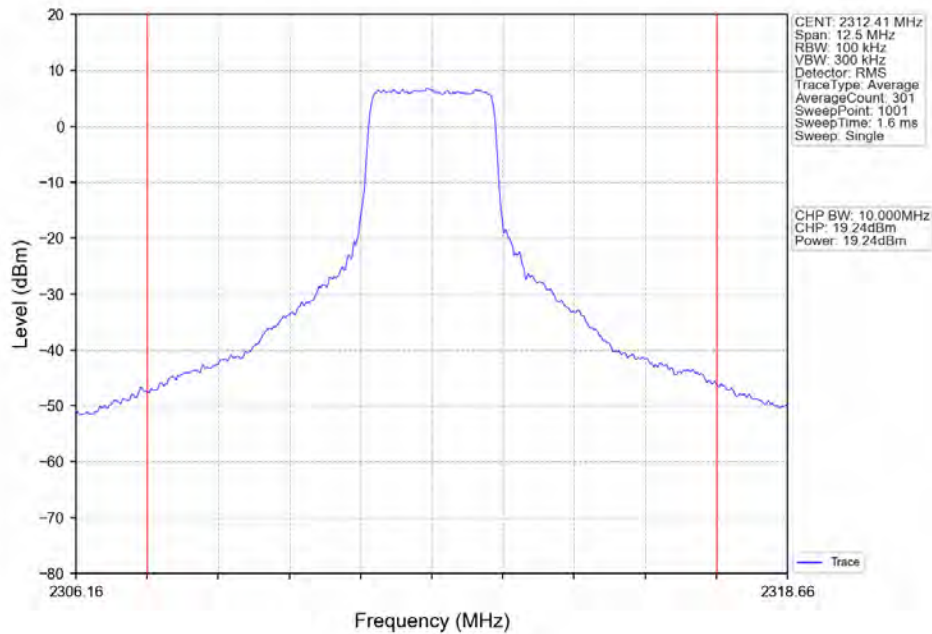


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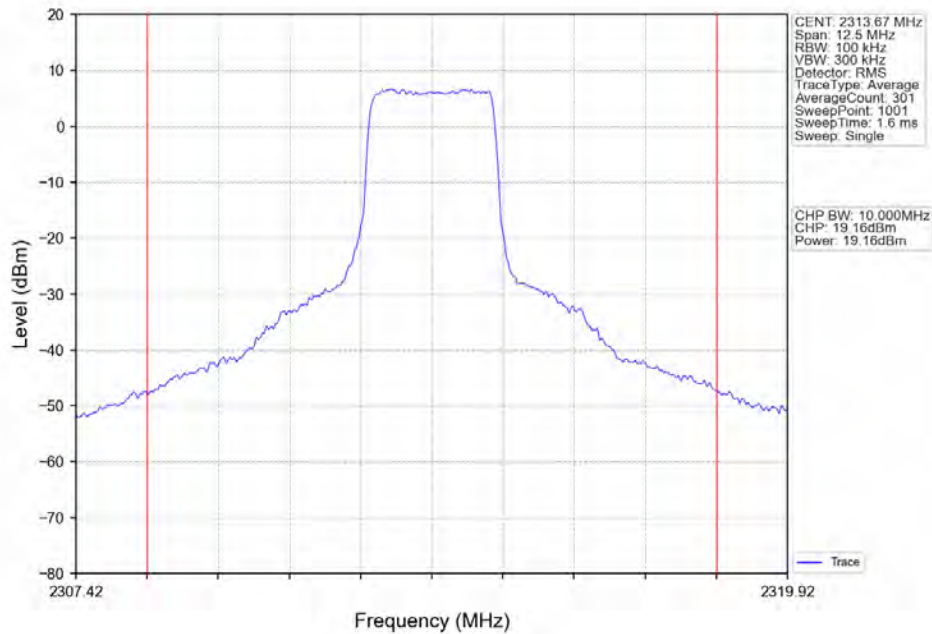
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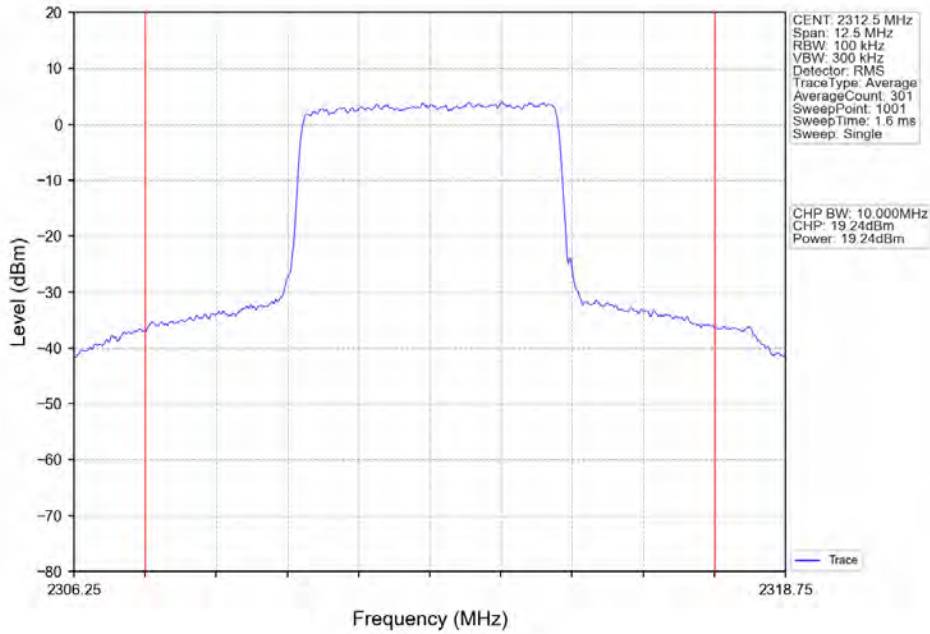


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### 1.3 B30\_10MHz\_EIRP

#### 1.3.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2310	1	0	22.13	0.98	23.11	<=23.98	Pass		
			25	22.02	0.98	23.00	<=23.98	Pass		
			49	21.95	0.98	22.93	<=23.98	Pass		
		25	0	21.10	0.98	22.08	<=23.98	Pass		
			13	21.07	0.98	22.05	<=23.98	Pass		
			25	21.03	0.98	22.01	<=23.98	Pass		
		50	0	21.06	0.98	22.04	<=23.98	Pass		
		16QAM	2310	1	0	21.64	0.98	22.62	<=23.98	Pass
					25	21.54	0.98	22.52	<=23.98	Pass
49	21.37				0.98	22.35	<=23.98	Pass		
25	0			20.06	0.98	21.04	<=23.98	Pass		
	13			20.07	0.98	21.05	<=23.98	Pass		
	25			20.04	0.98	21.02	<=23.98	Pass		
50	0			19.97	0.98	20.95	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

### 1.4 B30\_10MHz\_EIRP/10MHz

#### 1.4.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/10MHz (dBm/5MHz)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2310	1	0	21.38	0.98	22.36	<=23.98	Pass		
			25	21.34	0.98	22.32	<=23.98	Pass		
			49	21.40	0.98	22.38	<=23.98	Pass		
		25	0	20.35	0.98	21.33	<=23.98	Pass		
			13	20.39	0.98	21.37	<=23.98	Pass		
			25	20.36	0.98	21.34	<=23.98	Pass		
		50	0	20.36	0.98	21.34	<=23.98	Pass		
		16QAM	2310	1	0	20.79	0.98	21.77	<=23.98	Pass
					25	20.55	0.98	21.53	<=23.98	Pass
49	20.65				0.98	21.63	<=23.98	Pass		
25	0			19.37	0.98	20.35	<=23.98	Pass		
	13			19.34	0.98	20.32	<=23.98	Pass		
	25			19.34	0.98	20.32	<=23.98	Pass		
50	0			19.28	0.98	20.26	<=23.98	Pass		

Note1: EIRP/10MHz=Conducted Power+Antenna Gain-2.15

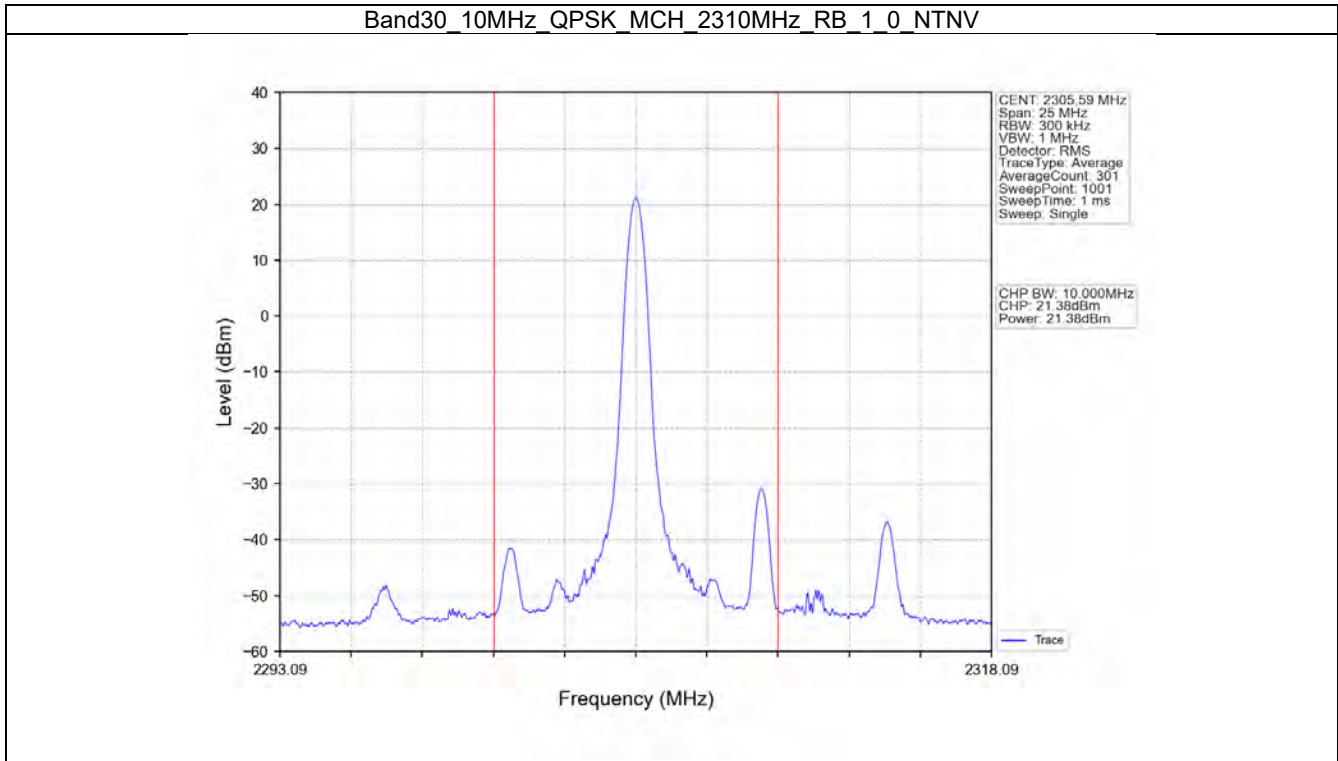


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1.4.2 Test Graph



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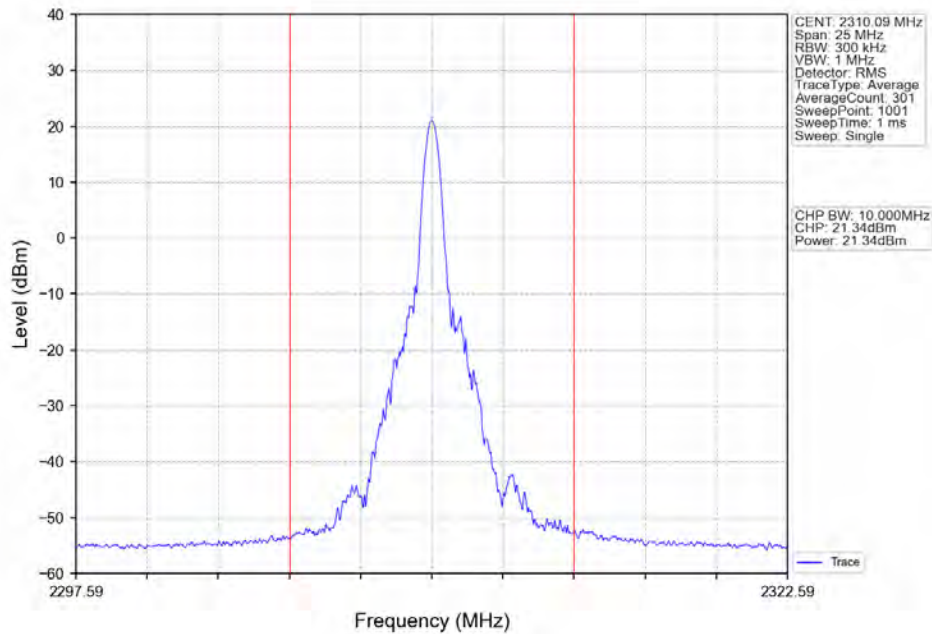
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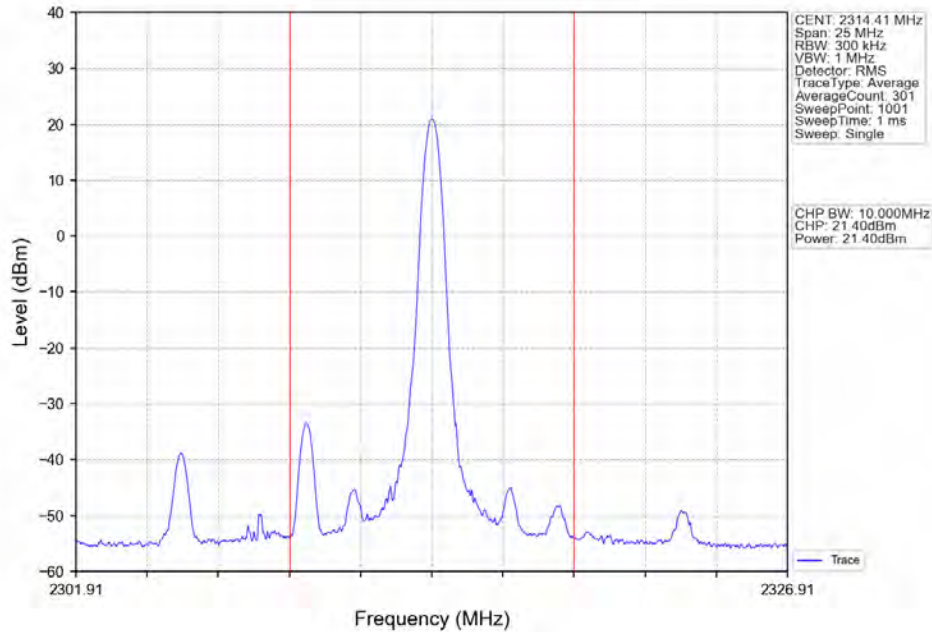
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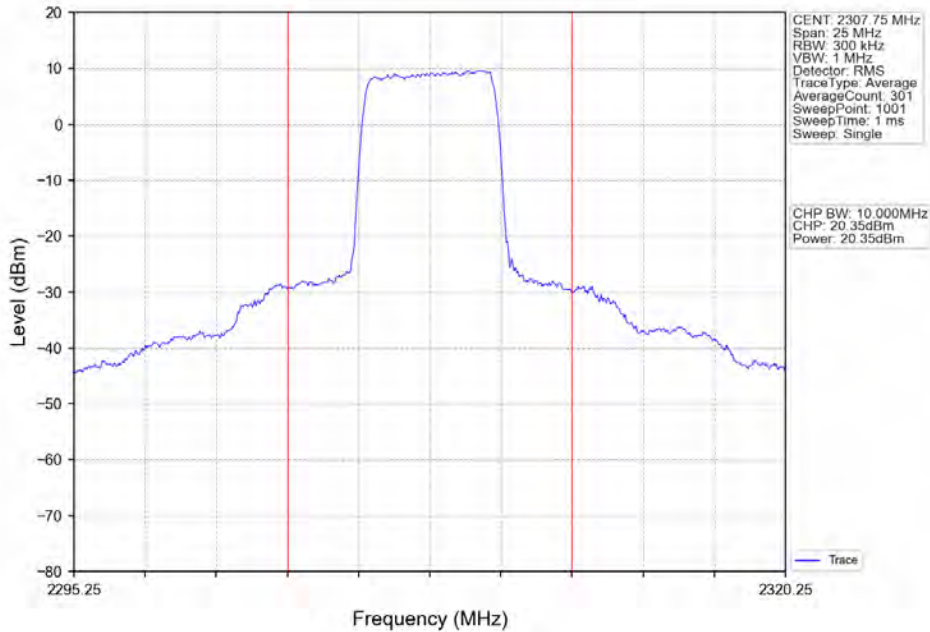
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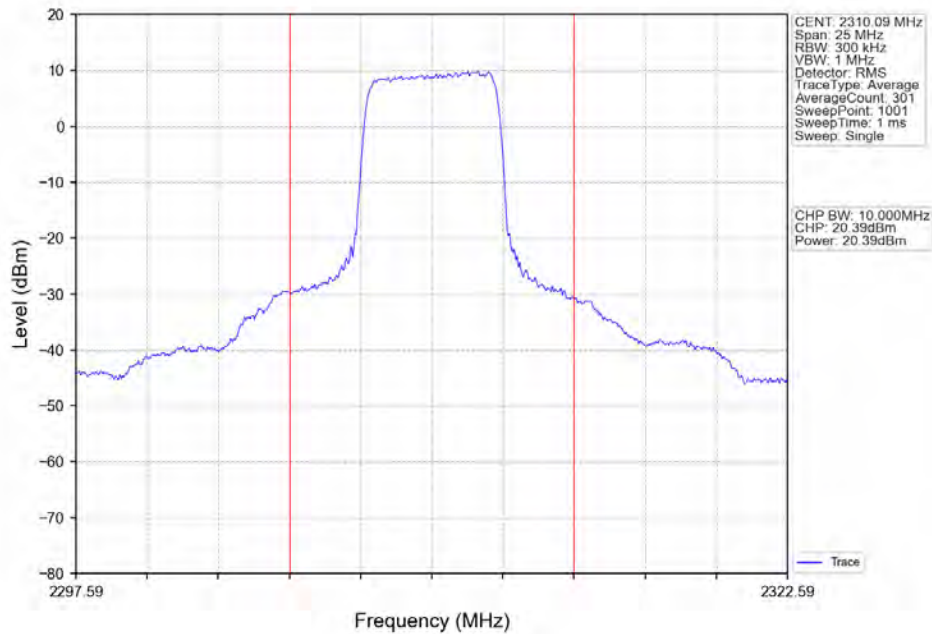


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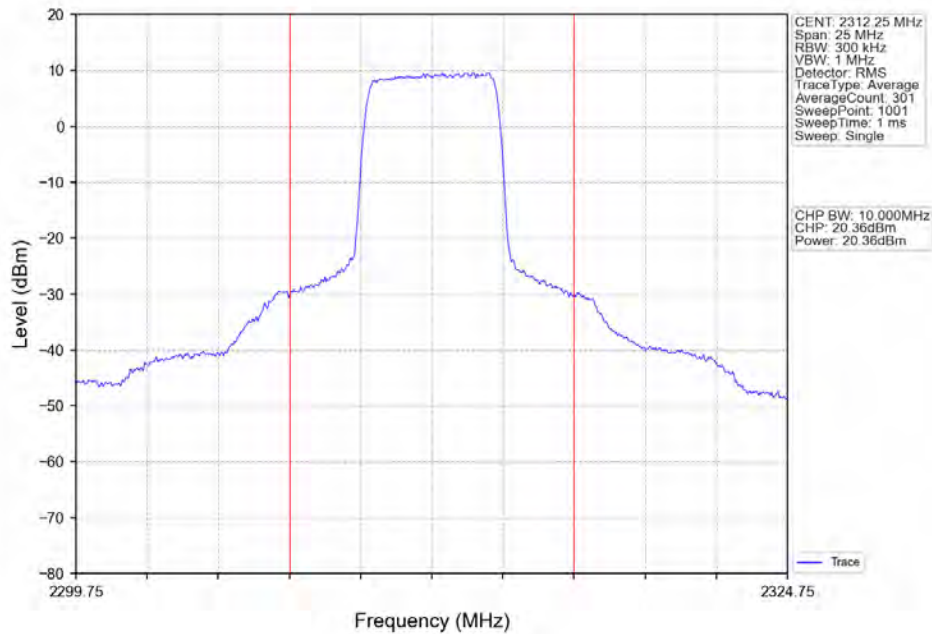
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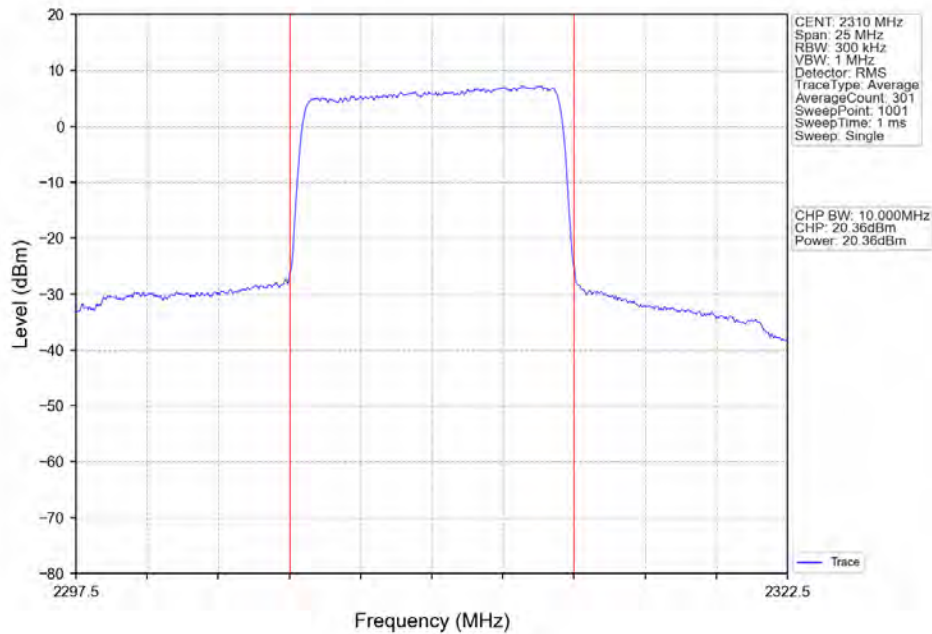
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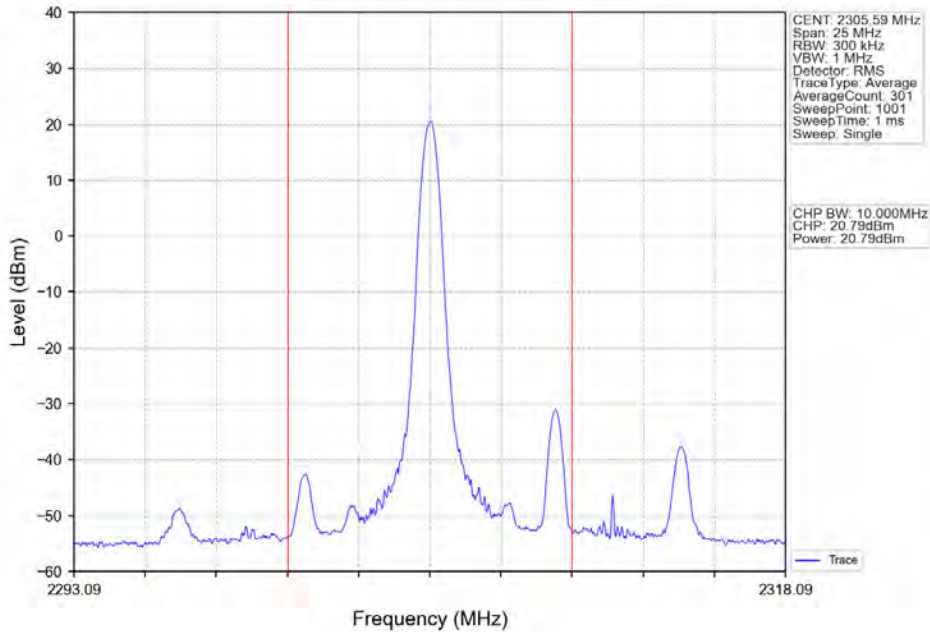
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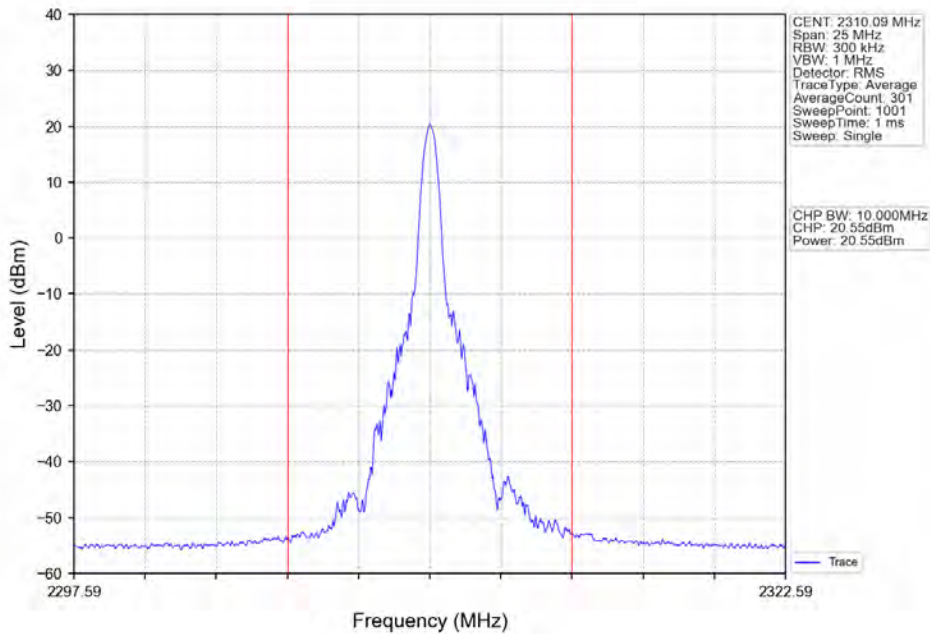


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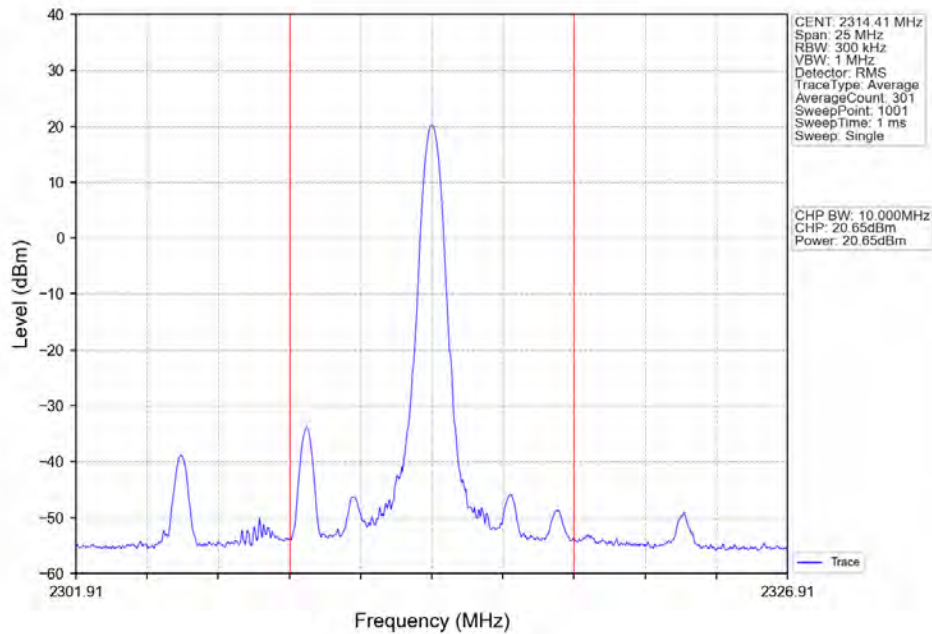
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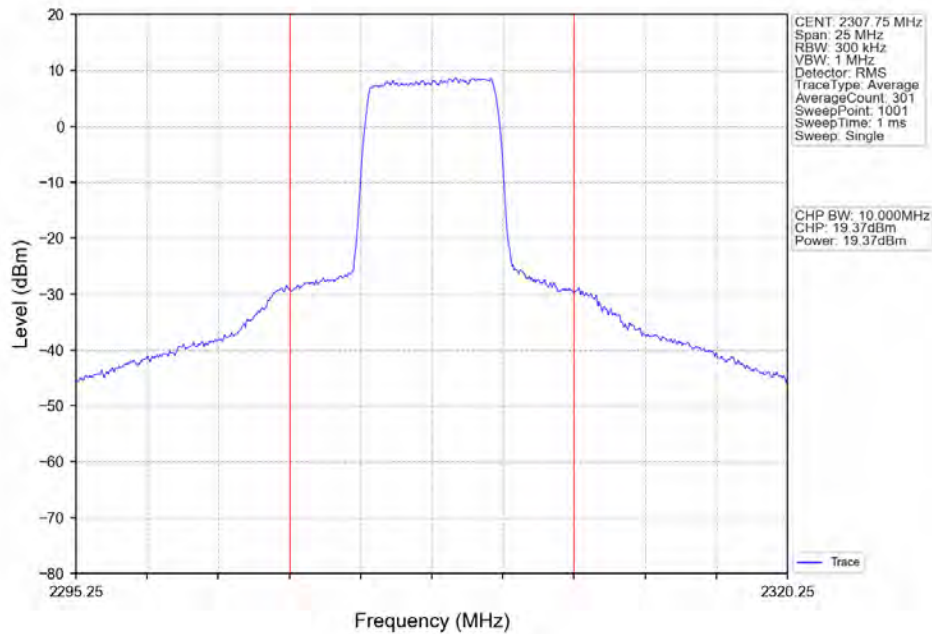
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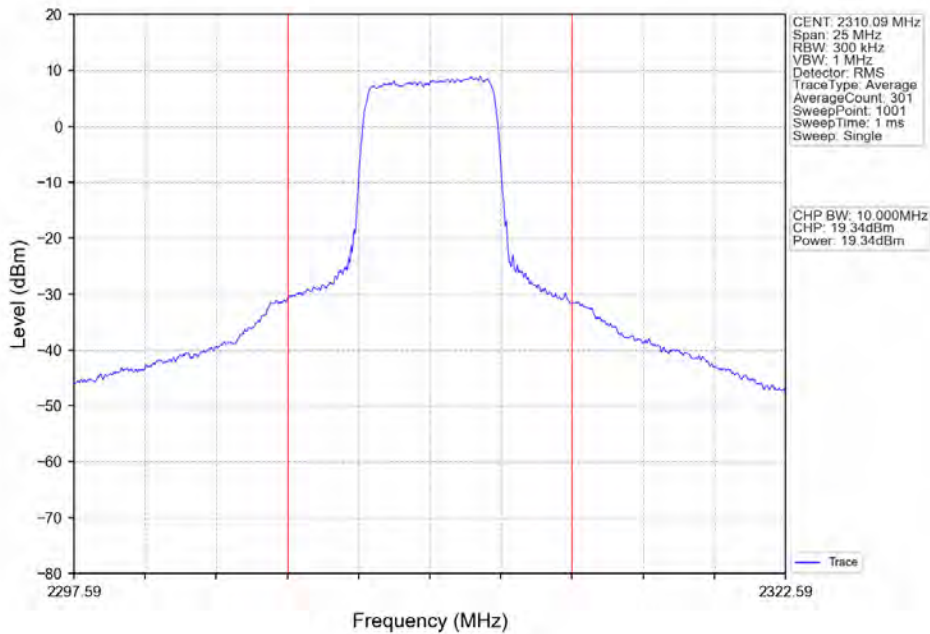
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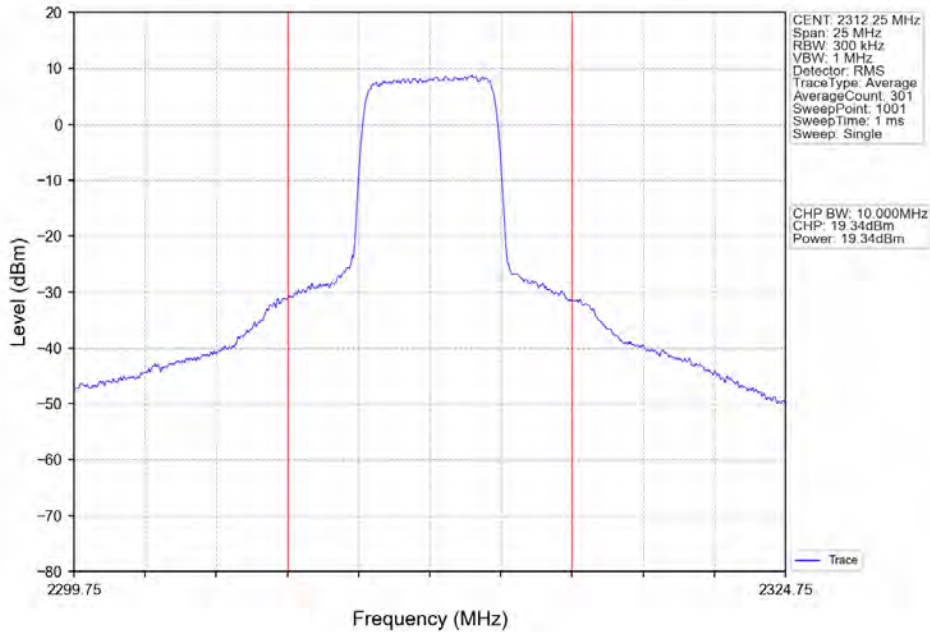


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Band30\_10MHz\_16QAM\_MCH\_2310MHz\_RB\_25\_25\_NTNV



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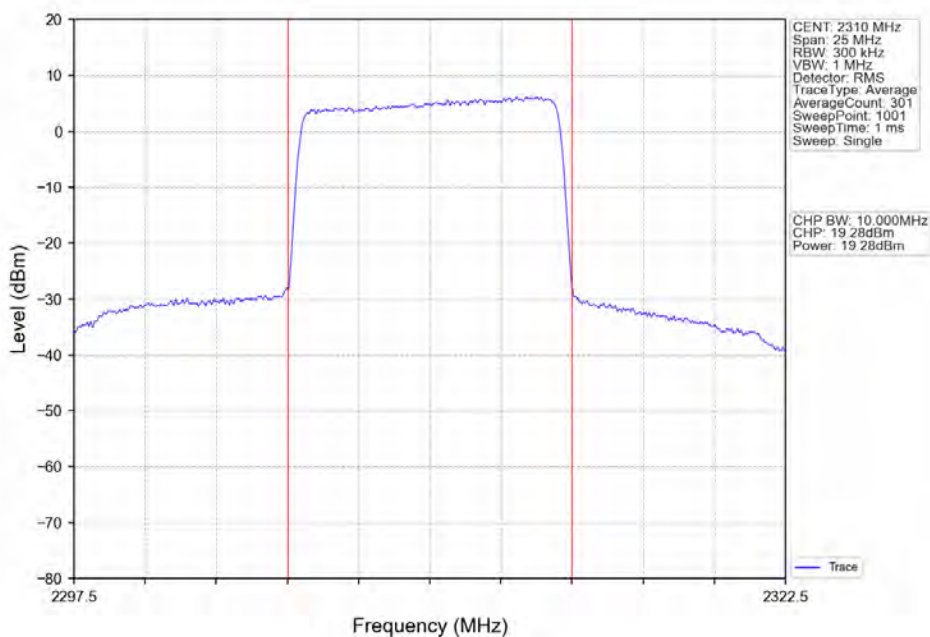
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## 2. Frequency Stability

### 2.1 B30\_5MHz

### 2.2 B30\_10MHz

#### 2.2.1 Test Result

Band: 30 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	3.135	4.980	0.0022	/	Pass
					3.7	3.799	0.0016	/	Pass
					4.4	-1.201	-0.0005	/	Pass
				-30	3.7	4.766	0.0021	/	Pass
					-20	3.7	7.165	0.0031	/
				-10	3.7	-4.130	-0.0018	/	Pass
					0	3.7	2.750	0.0012	/
				10	3.7	2.201	0.0010	/	Pass
					30	3.7	-0.105	0.0000	/
				40	3.7	-6.201	-0.0027	/	Pass
16QAM	2310	50	0	20	3.135	3.497	0.0015	/	Pass
					3.7	2.237	0.0010	/	Pass
					4.4	3.001	0.0013	/	Pass
				-30	3.7	7.035	0.0030	/	Pass
					-20	3.7	7.438	0.0032	/
				-10	3.7	3.564	0.0015	/	Pass
					0	3.7	6.384	0.0028	/
				10	3.7	4.708	0.0020	/	Pass
					30	3.7	0.174	0.0001	/
				40	3.7	-0.063	0.0000	/	Pass
50	3.7	-0.966	-0.0004	/	Pass				



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### 3. 99% & 26dB Bandwidth

#### 3.1 Band30\_OBW

##### 3.1.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.552	/	Pass
		2310	25	0	4.549	/	Pass
		2312.5	25	0	4.568	/	Pass
	16QAM	2307.5	25	0	4.555	/	Pass
		2310	25	0	4.563	/	Pass
		2312.5	25	0	4.556	/	Pass
10	QPSK	2310	50	0	9.053	/	Pass
	16QAM	2310	50	0	9.059	/	Pass

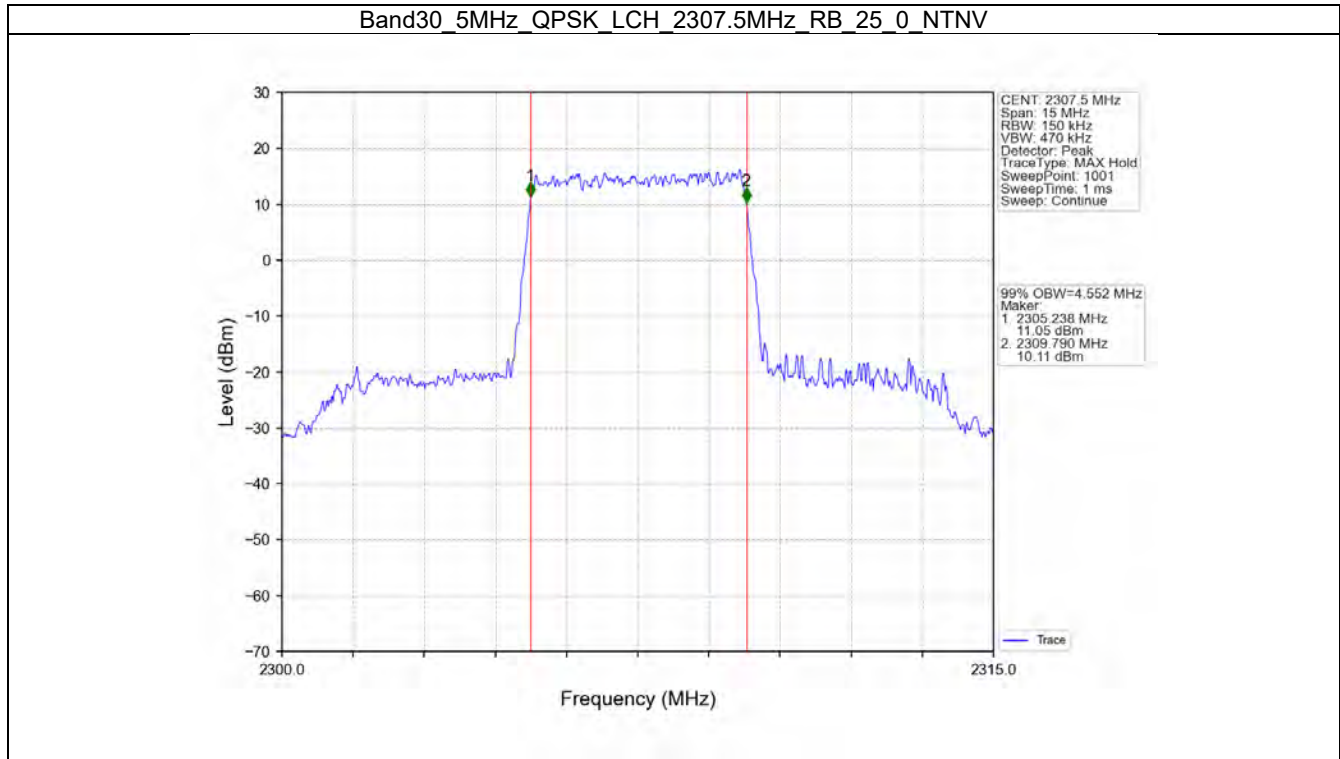


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3.1.2 Test Graph



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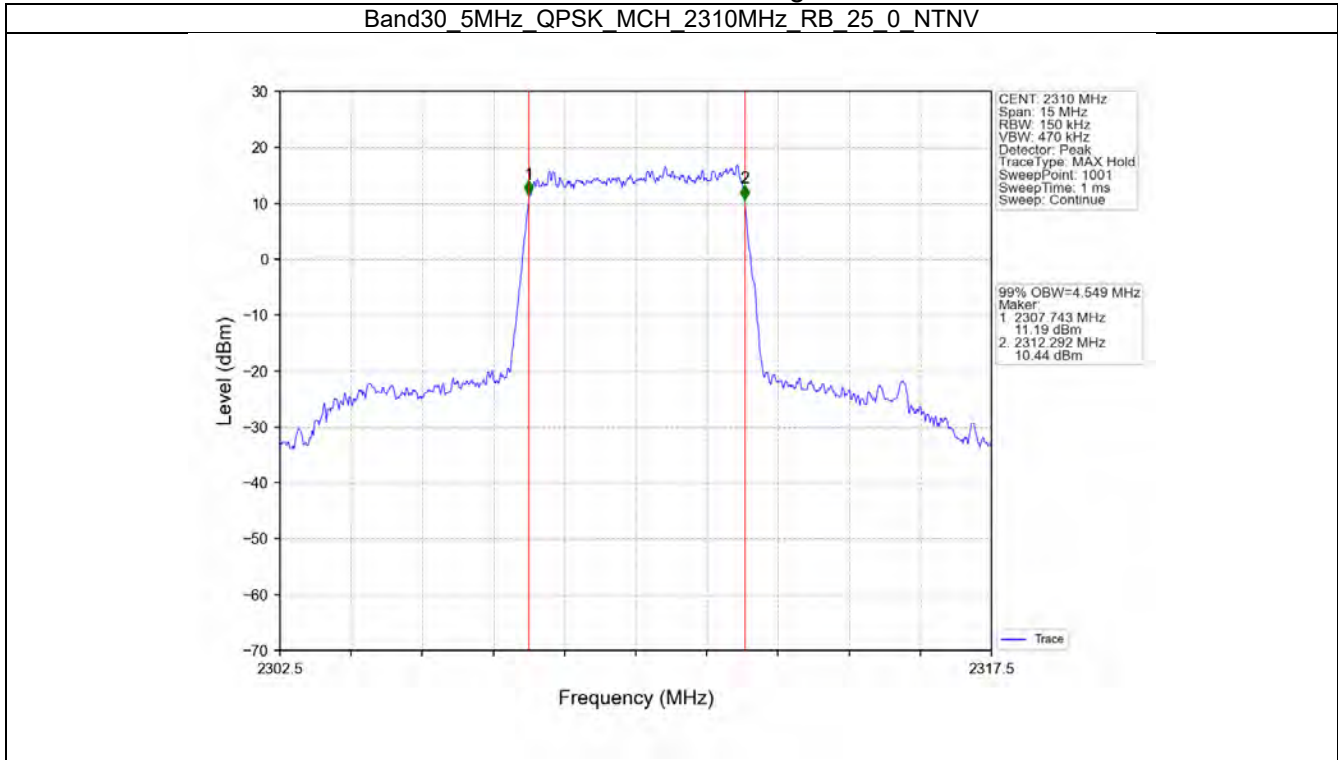
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Band30\_5MHz\_QPSK\_MCH\_2310MHz\_RB\_25\_0\_NTNV



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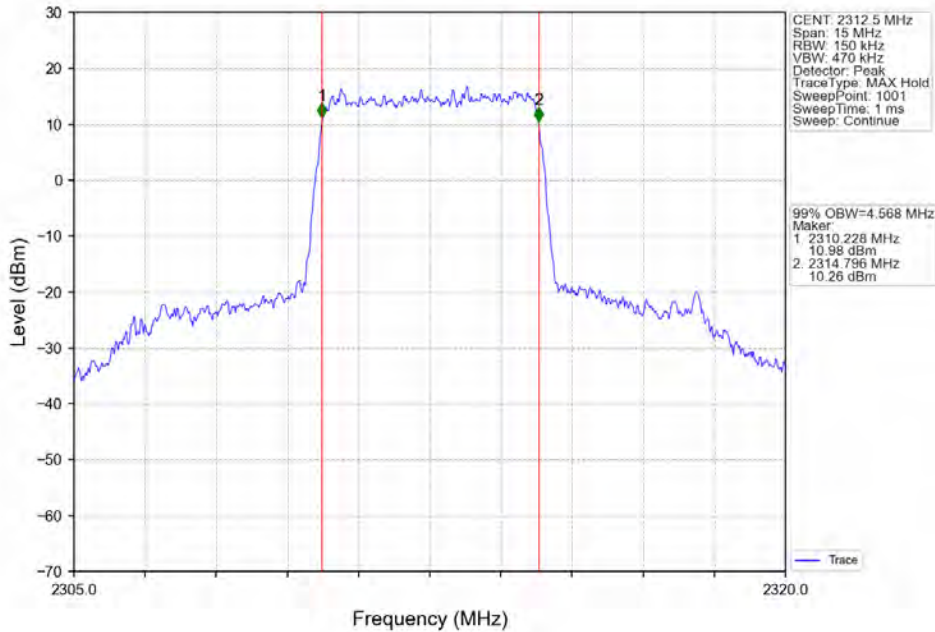
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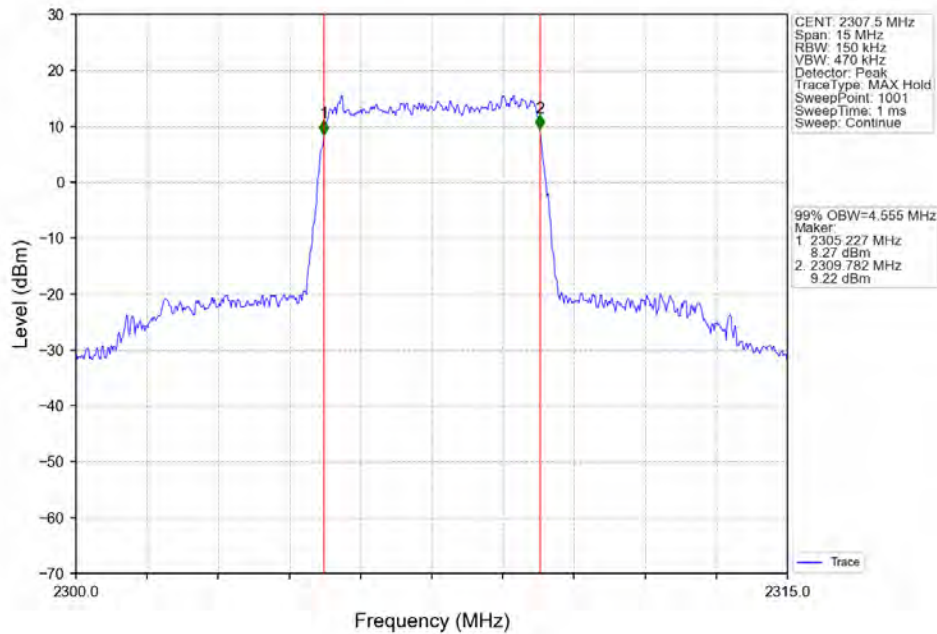
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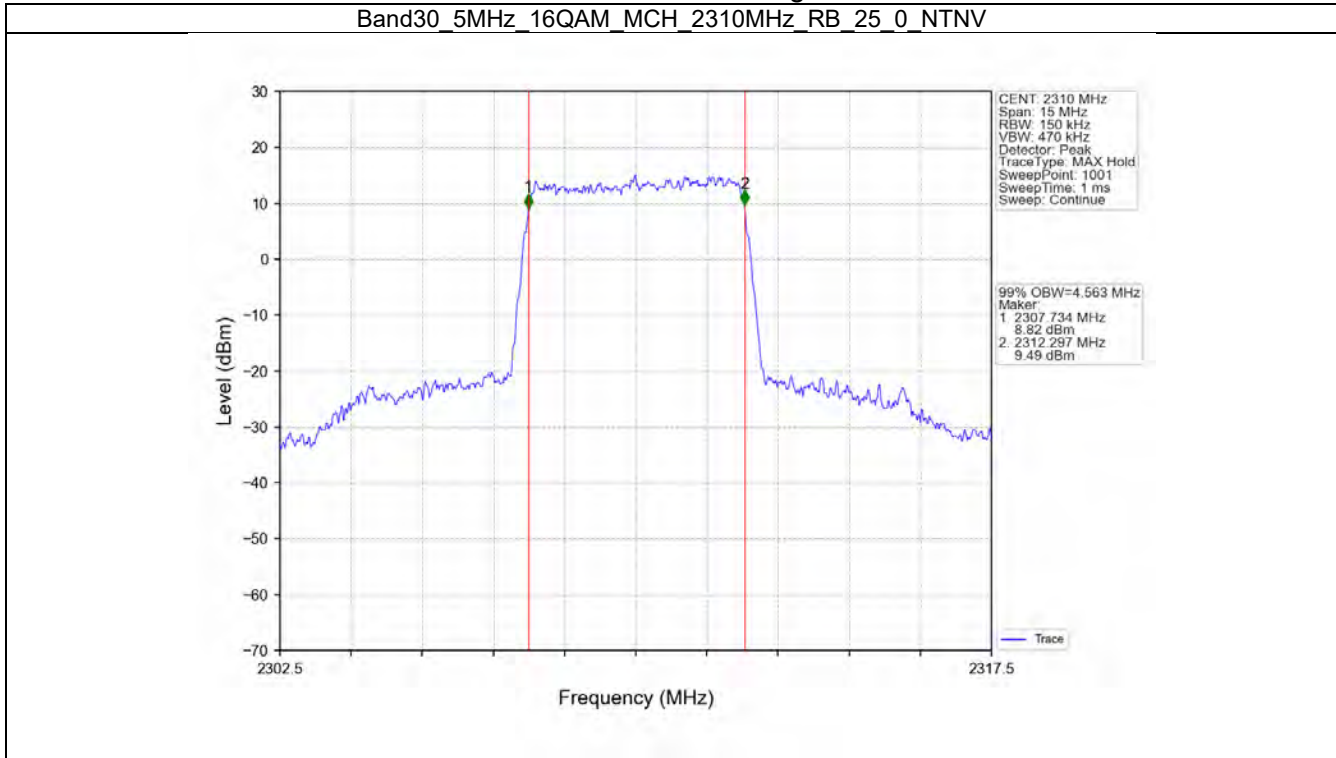


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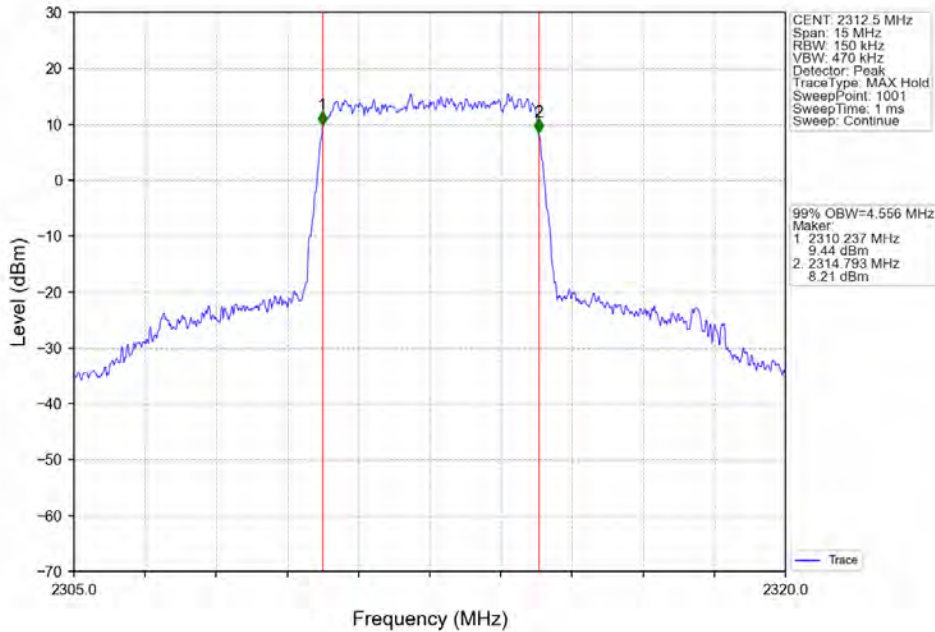
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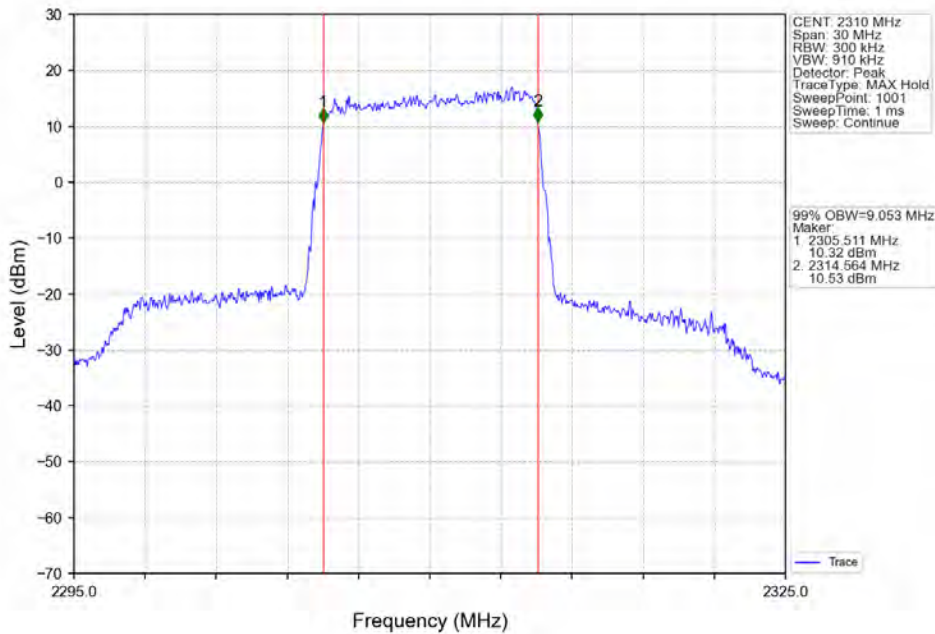


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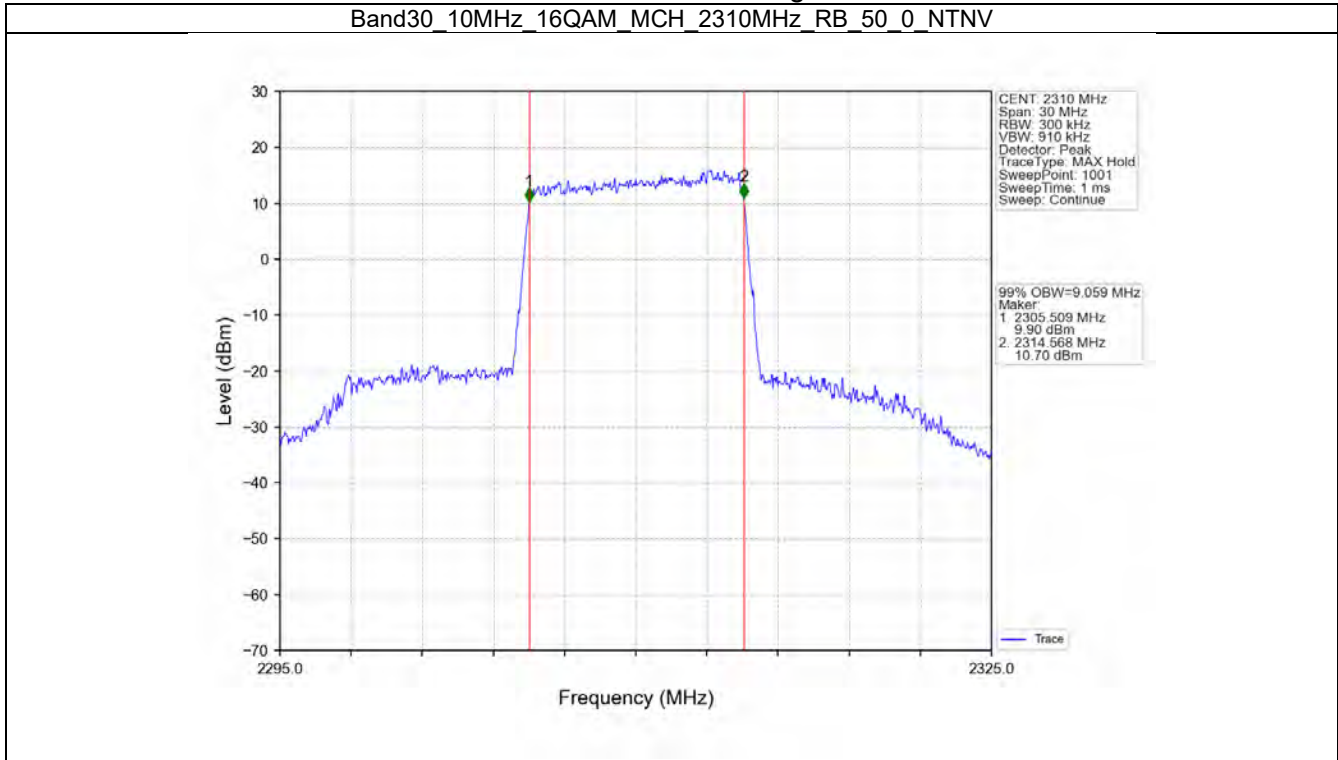
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### 3.2 Band30\_XDB

#### 3.2.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.041	/	Pass
		2310	25	0	5.045	/	Pass
		2312.5	25	0	5.050	/	Pass
	16QAM	2307.5	25	0	5.048	/	Pass
		2310	25	0	5.087	/	Pass
		2312.5	25	0	5.099	/	Pass
10	QPSK	2310	50	0	9.987	/	Pass
	16QAM	2310	50	0	9.968	/	Pass



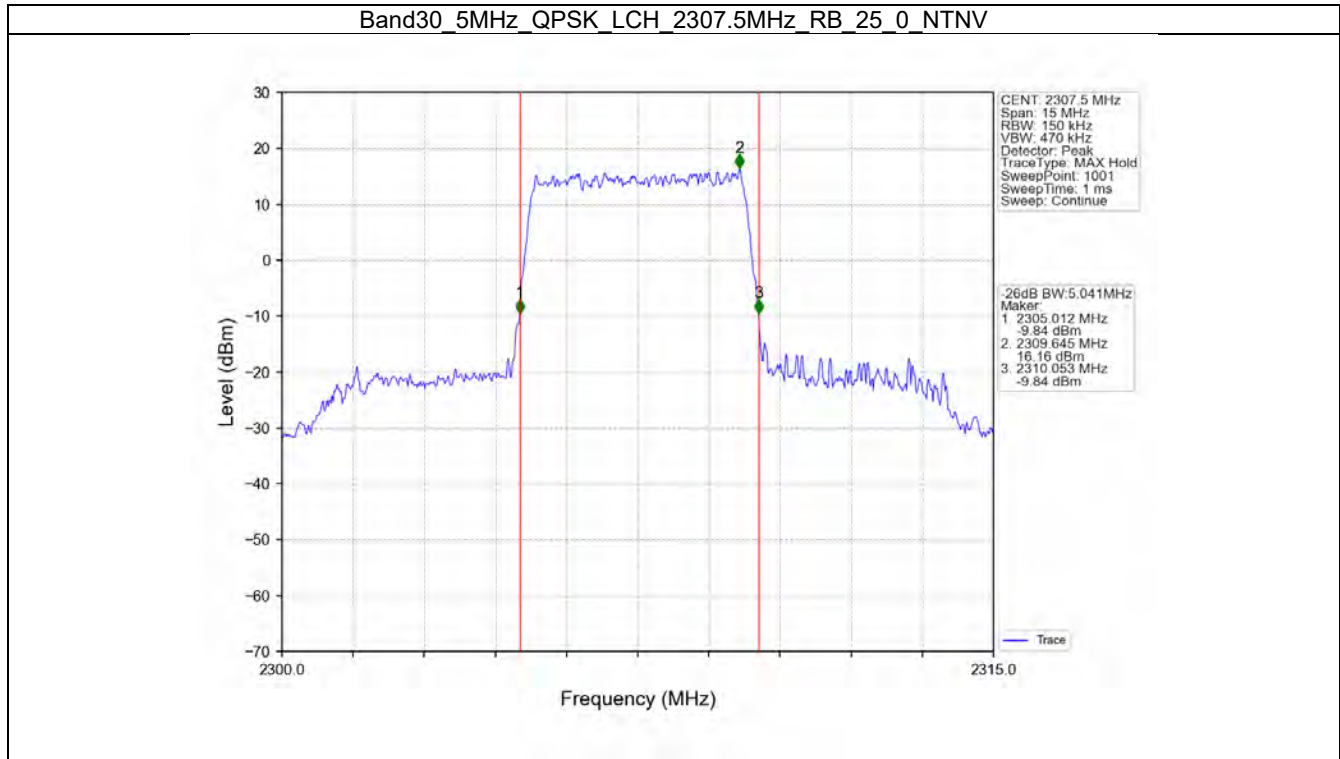
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3.2.2 Test Graph



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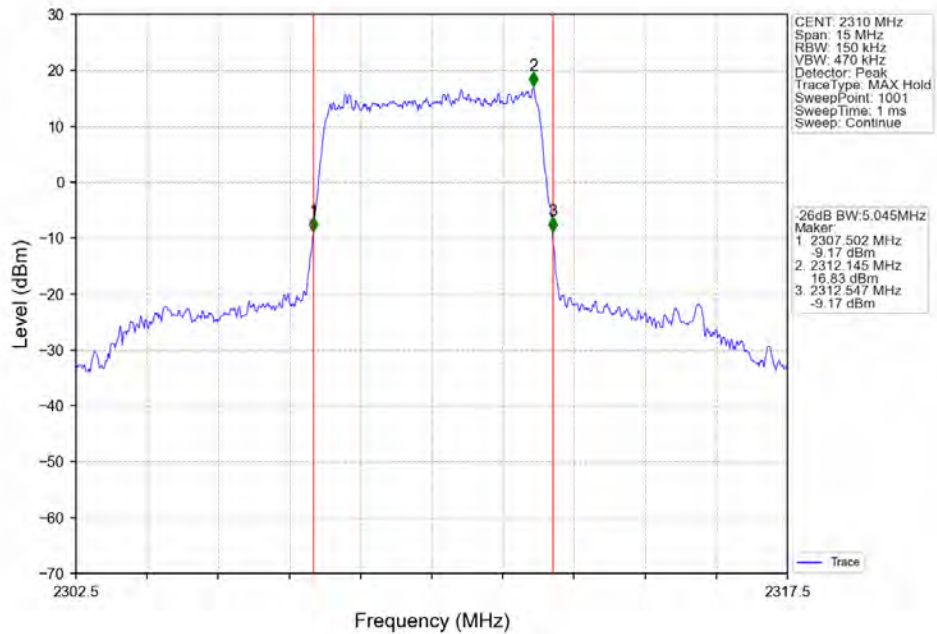
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Band30\_5MHz\_QPSK\_MCH\_2310MHz\_RB\_25\_0\_NTNV



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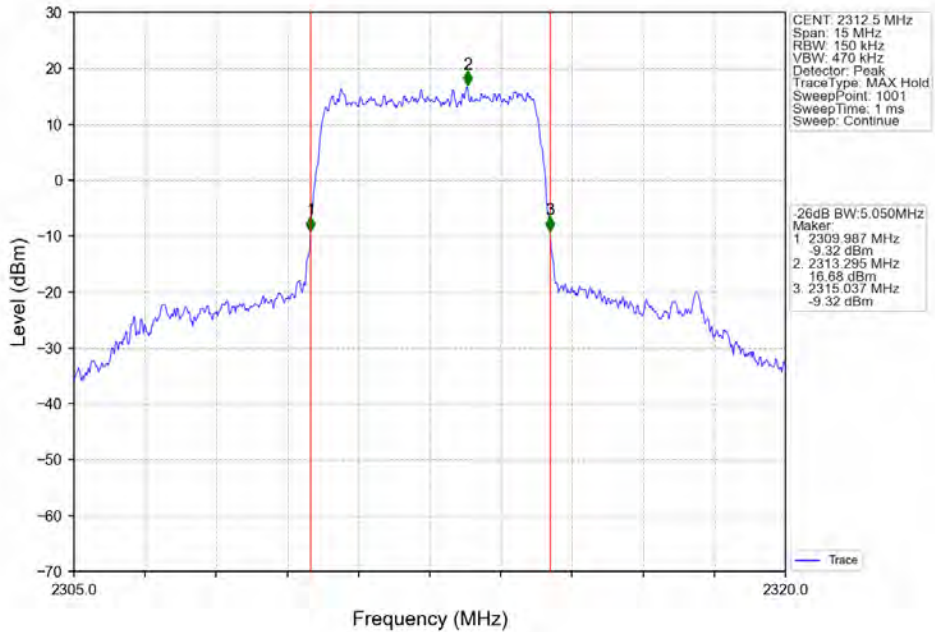
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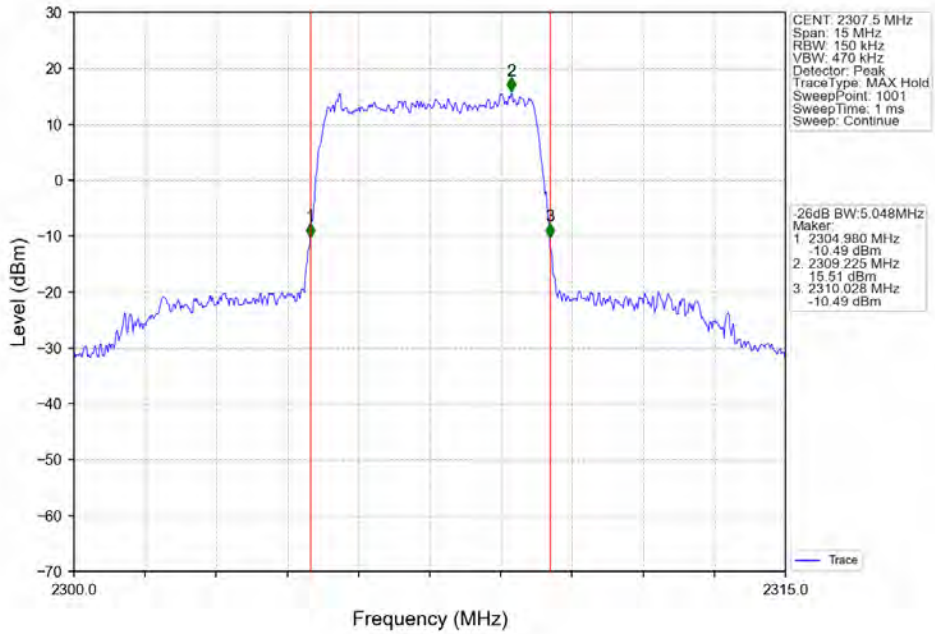
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Band30\_5MHz\_16QAM\_LCH\_2307.5MHz\_RB\_25\_0\_NTNV

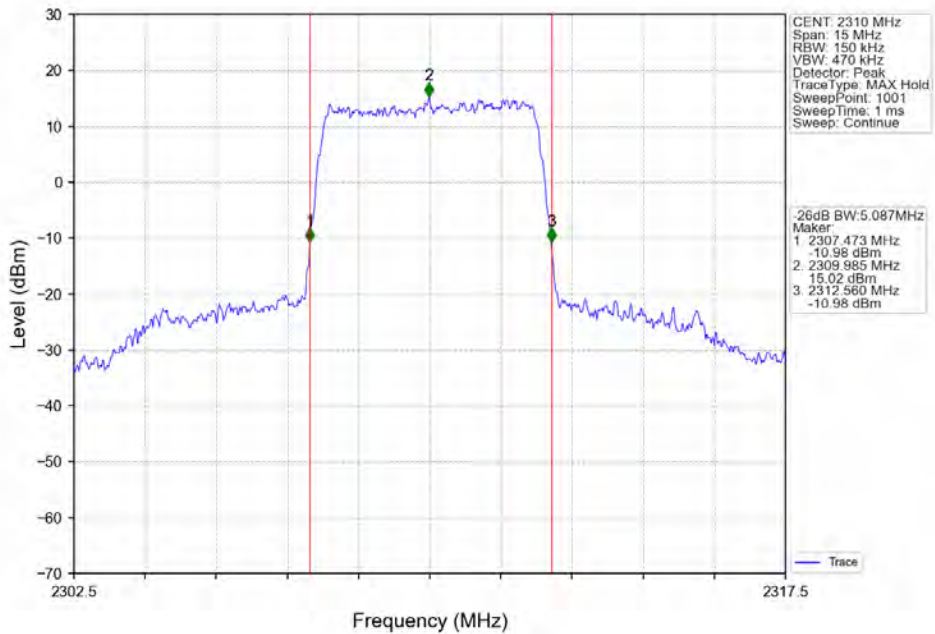


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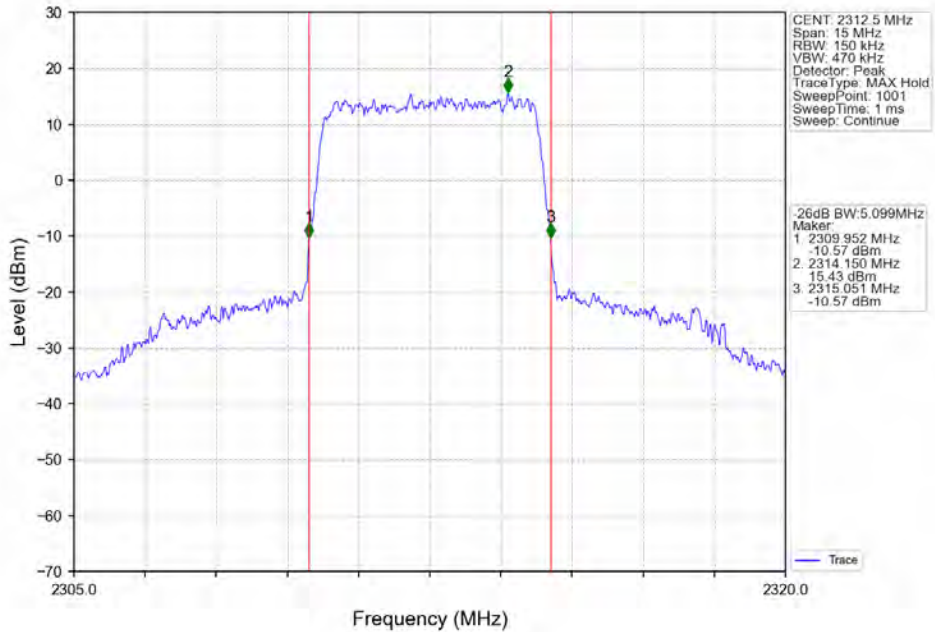
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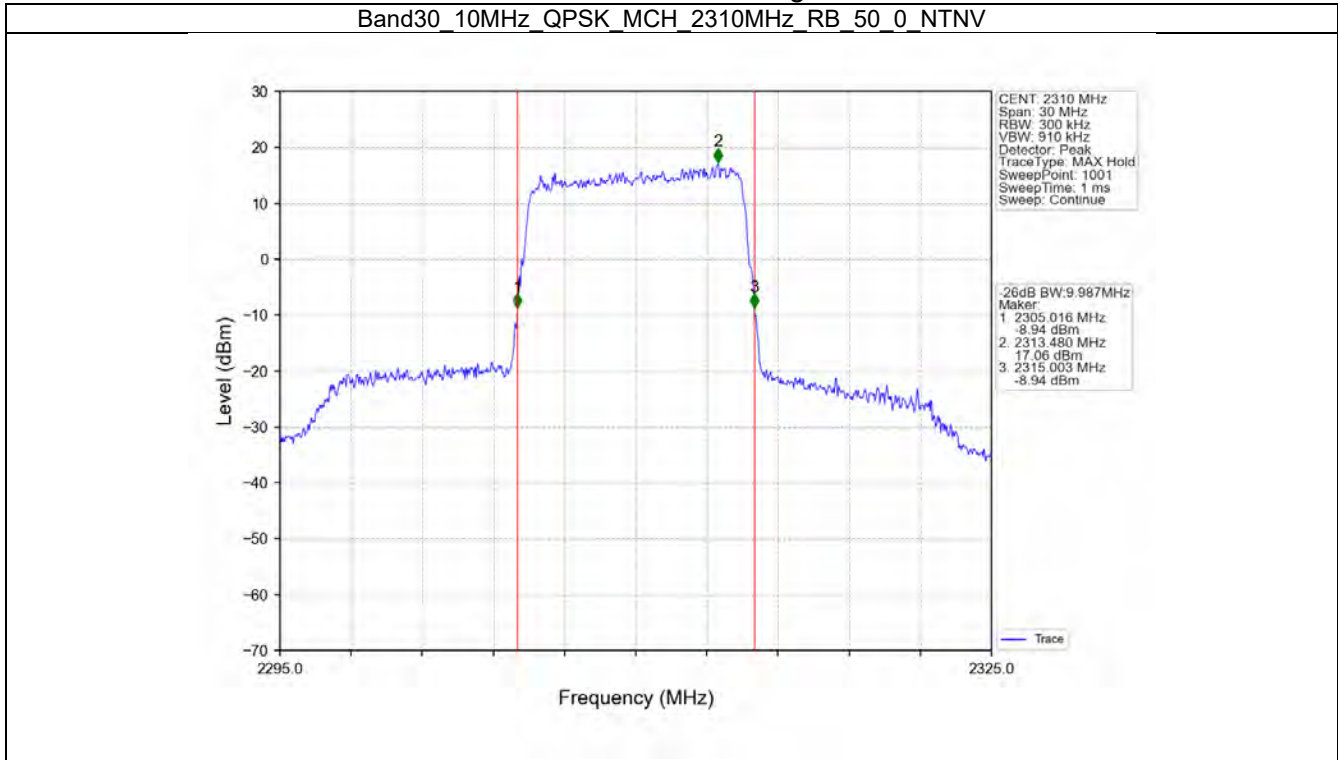
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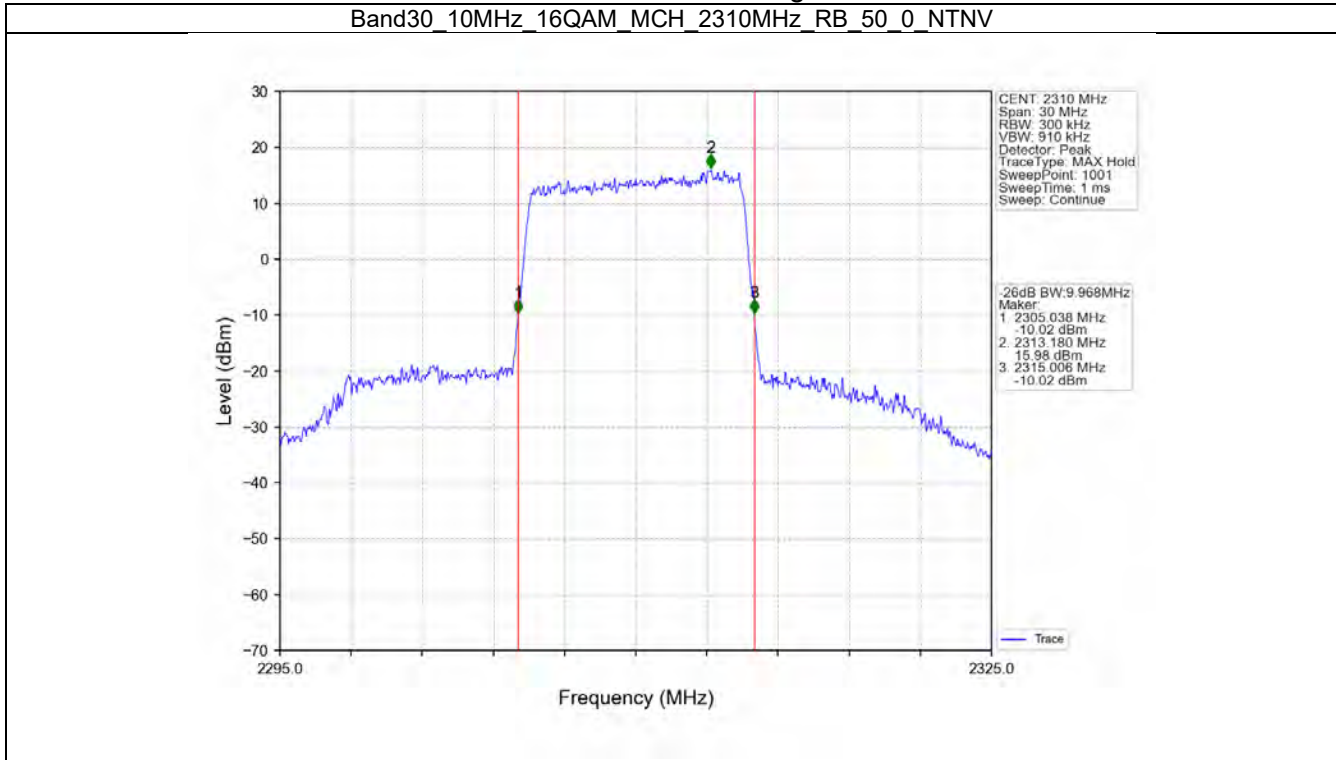


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## 4. Peak-Average Ratio

### 4.1 B30\_5MHz

#### 4.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	5.37	<=13	Pass
	2310	25	0	5.34	<=13	Pass
	2312.5	25	0	5.30	<=13	Pass
16QAM	2307.5	25	0	5.98	<=13	Pass
	2310	25	0	6.05	<=13	Pass
	2312.5	25	0	5.99	<=13	Pass



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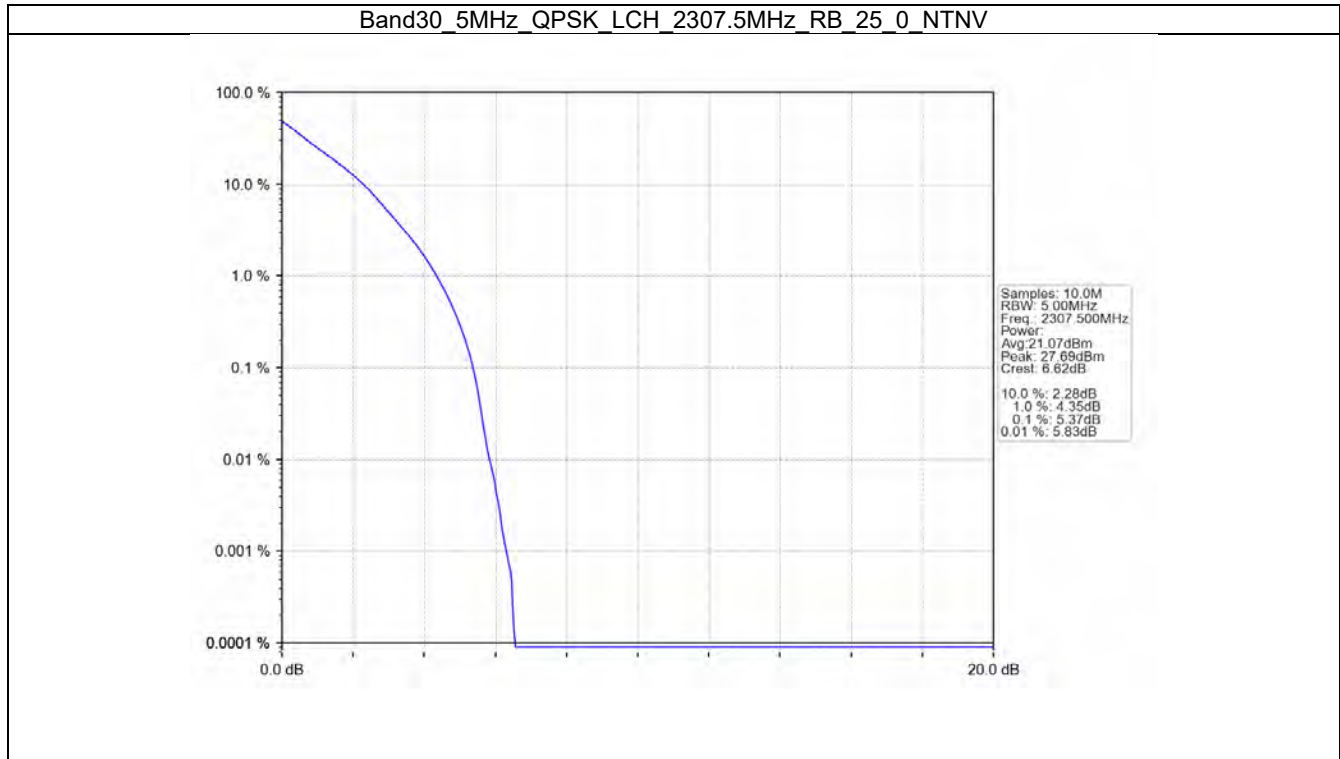
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4.1.2 Test Graph



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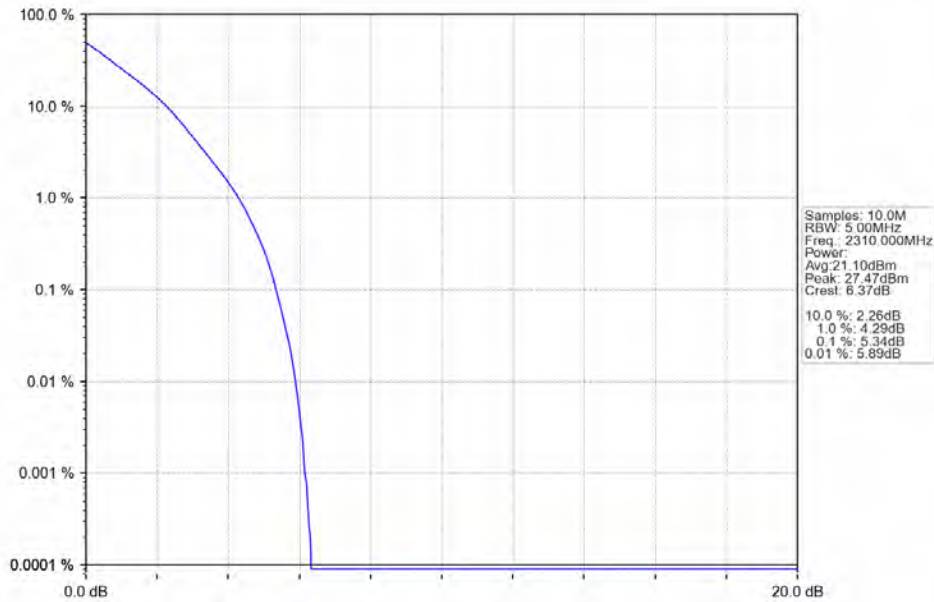
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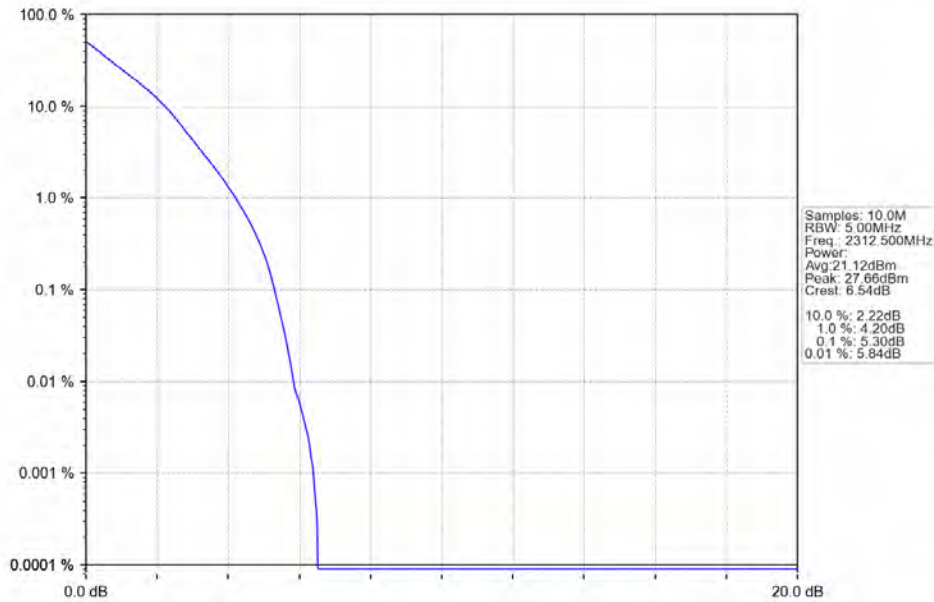


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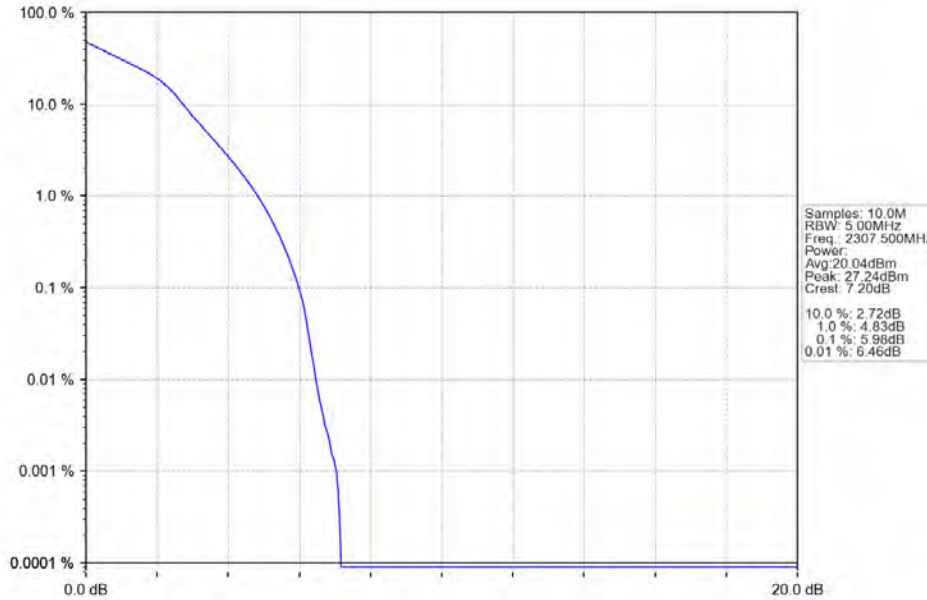
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Band30\_5MHz\_16QAM\_LCH\_2307.5MHz\_RB\_25\_0\_NTNV



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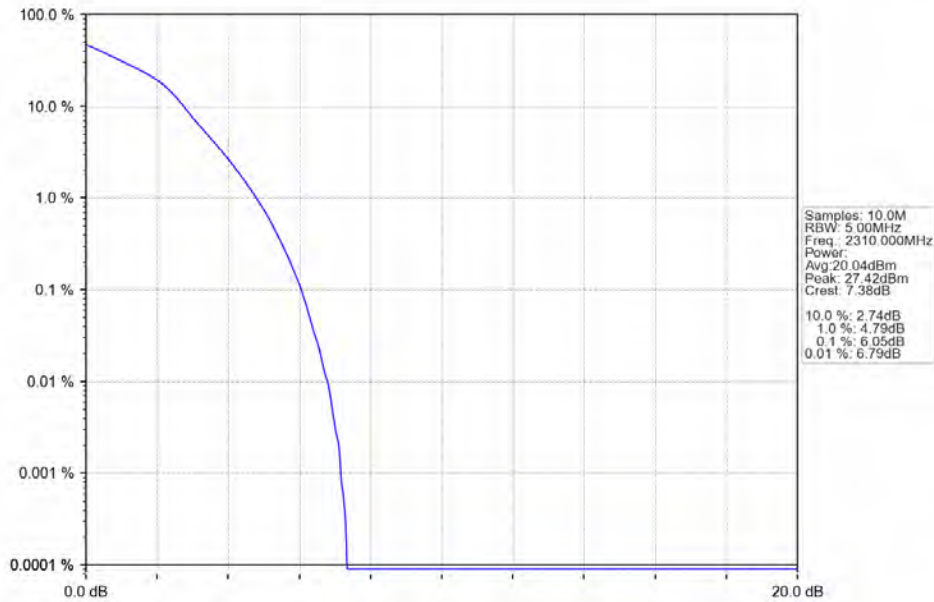
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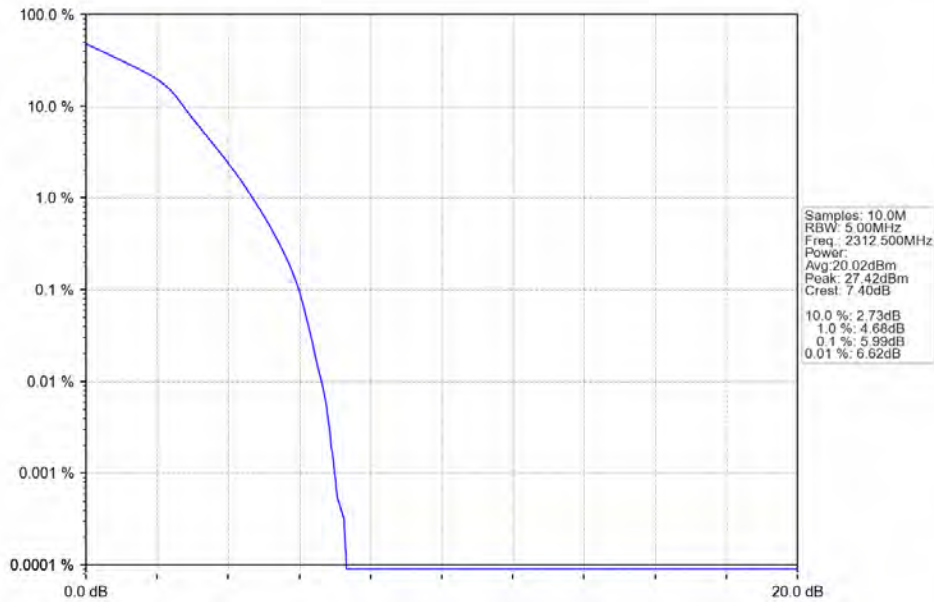
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## 4.2 B30\_10MHz

### 4.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.28	<=13	Pass
16QAM	2310	50	0	6.03	<=13	Pass



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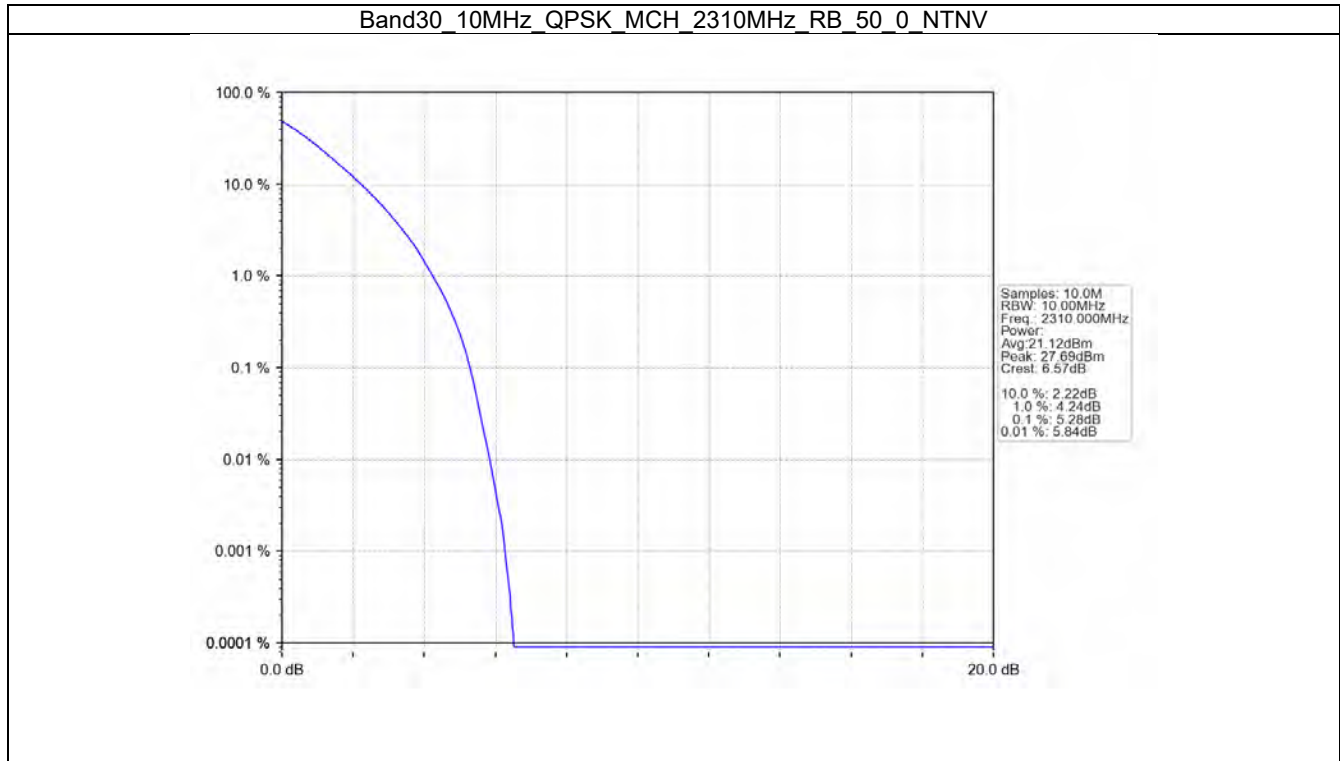
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4.2.2 Test Graph



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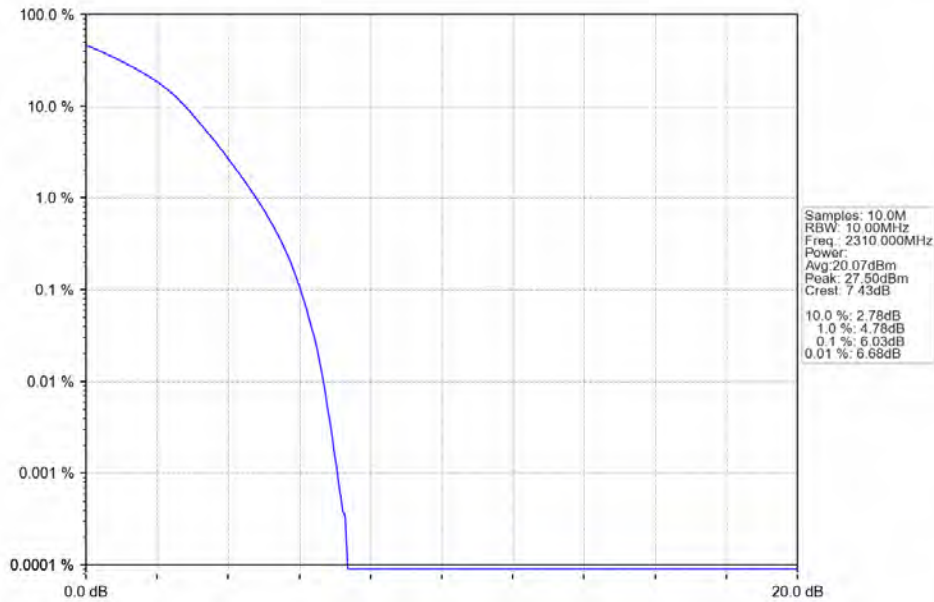
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Band30\_10MHz\_16QAM\_MCH\_2310MHz\_RB\_50\_0\_NTNV



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## 5. Spurious Emission & Band Edge

### 5.1 B30\_5MHz

#### 5.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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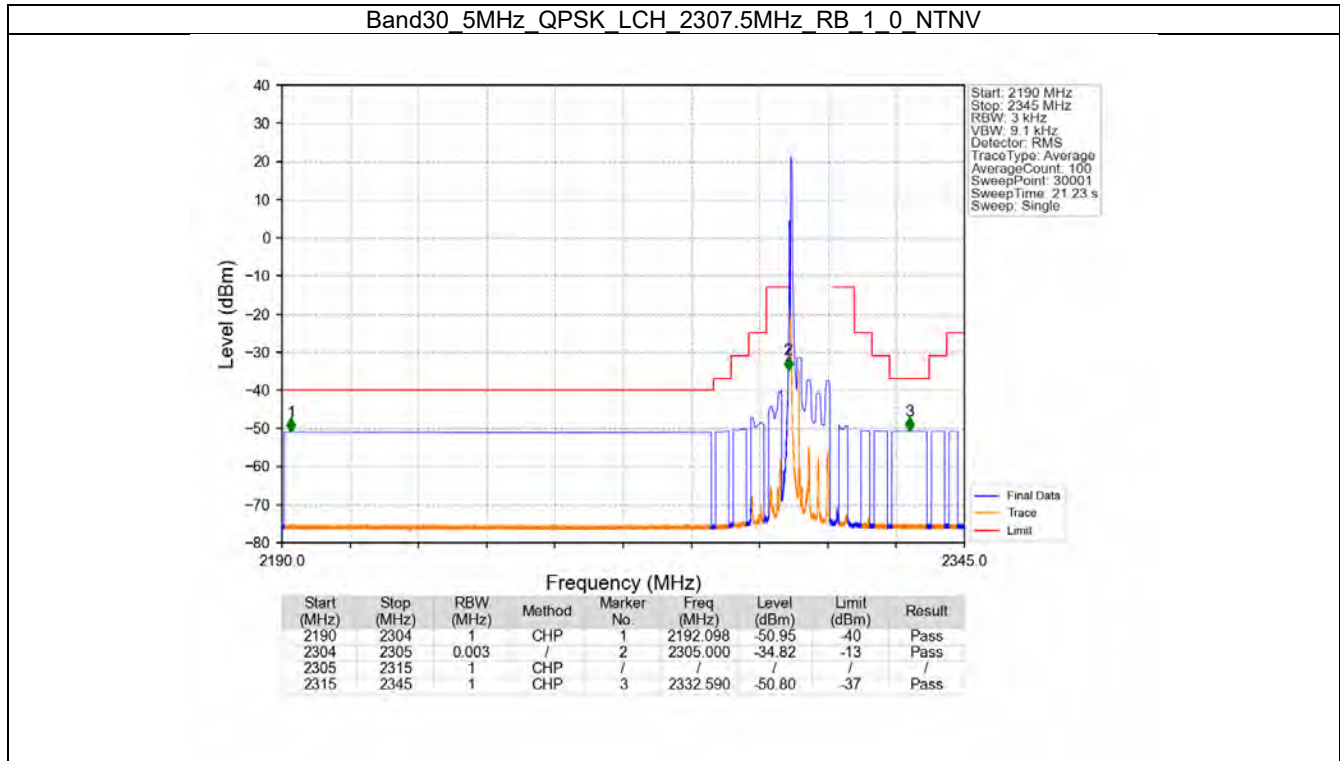
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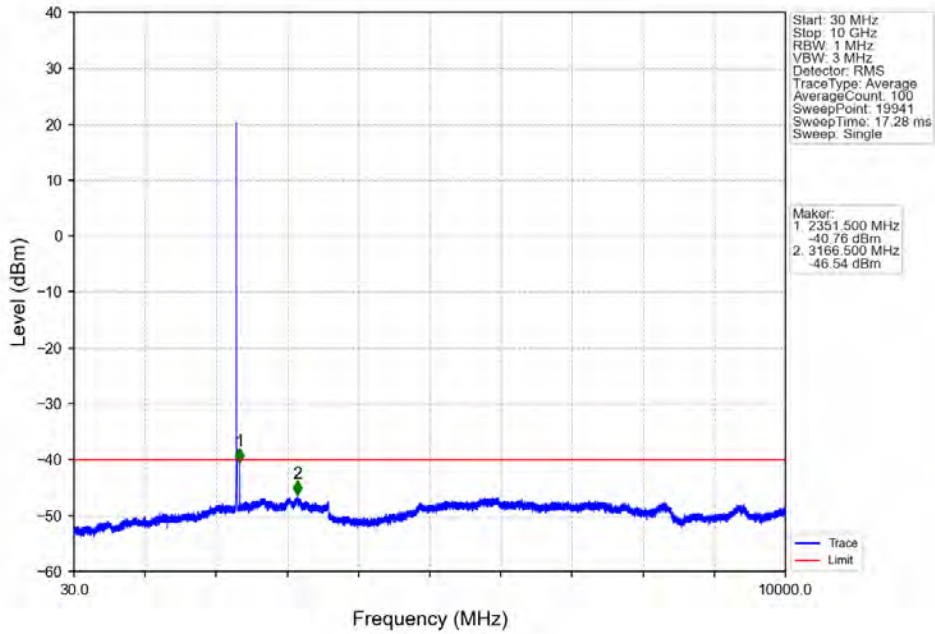
5.1.2 Test Graph



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Band30\_5MHz\_QPSK\_LCH\_2307.5MHz\_RB\_1\_0\_NTNV



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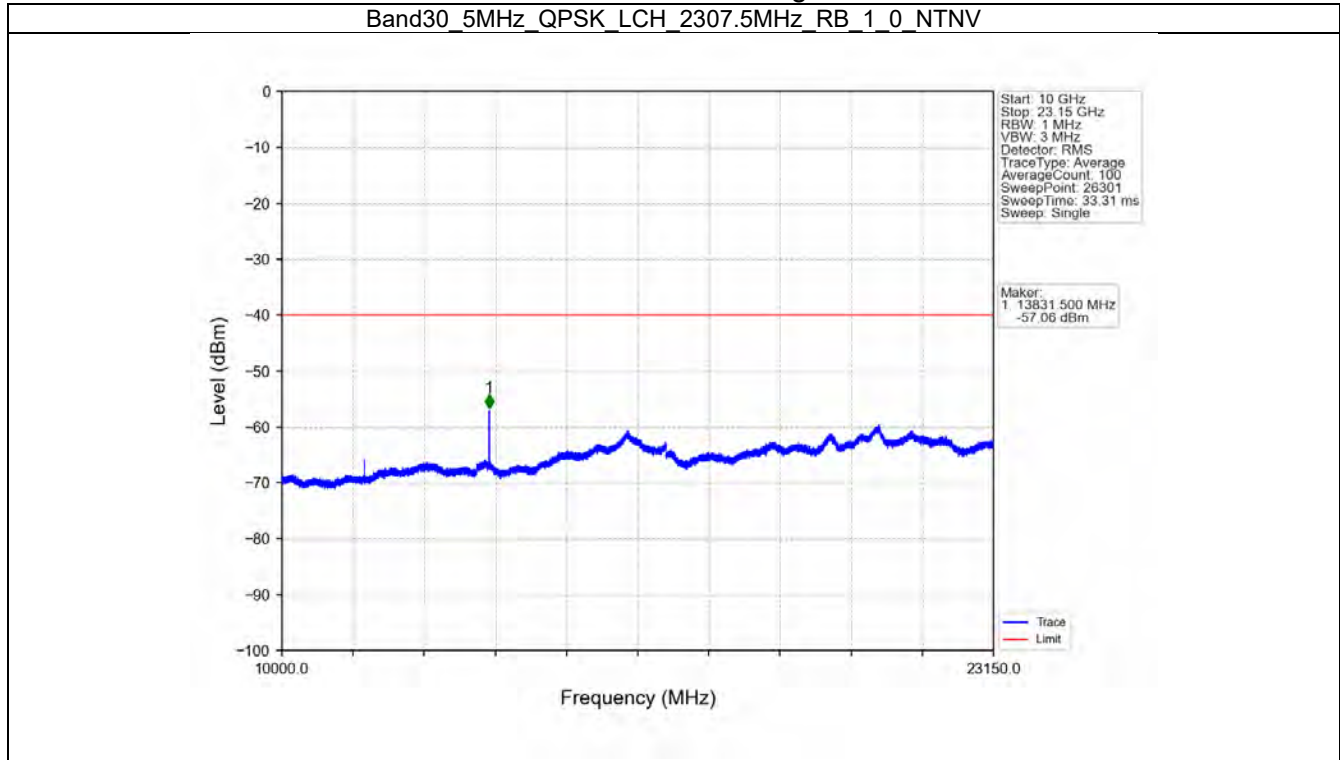
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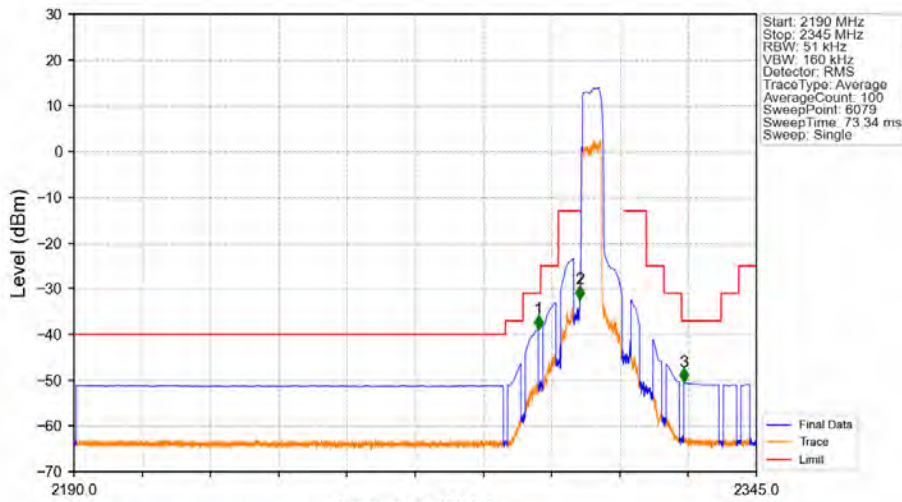
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2295.475	-38.88	-31	Pass
2304	2305	0.051	/	2	2304.962	-32.34	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2345	1	CHP	3	2328.500	-50.49	-37	Pass



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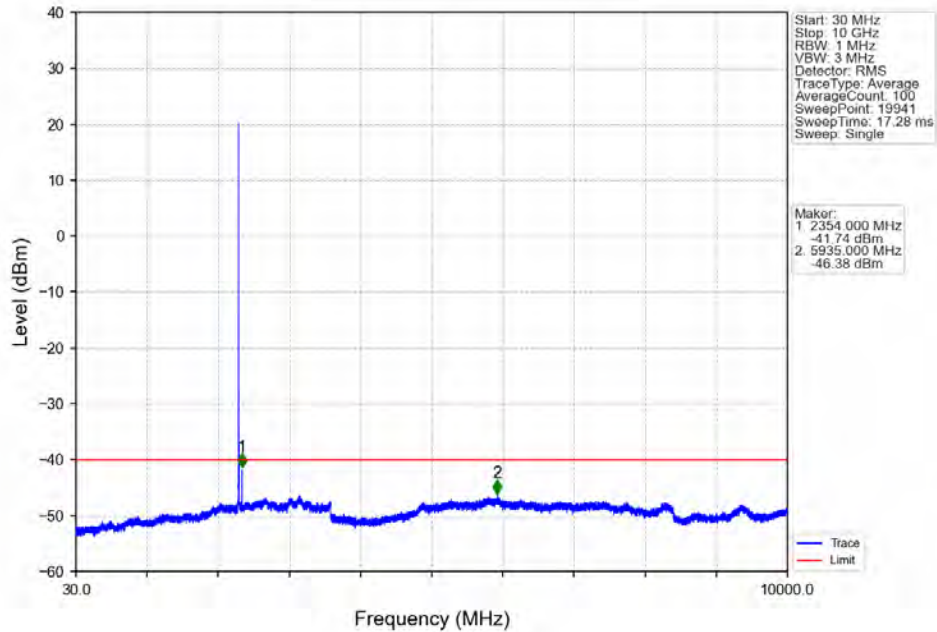
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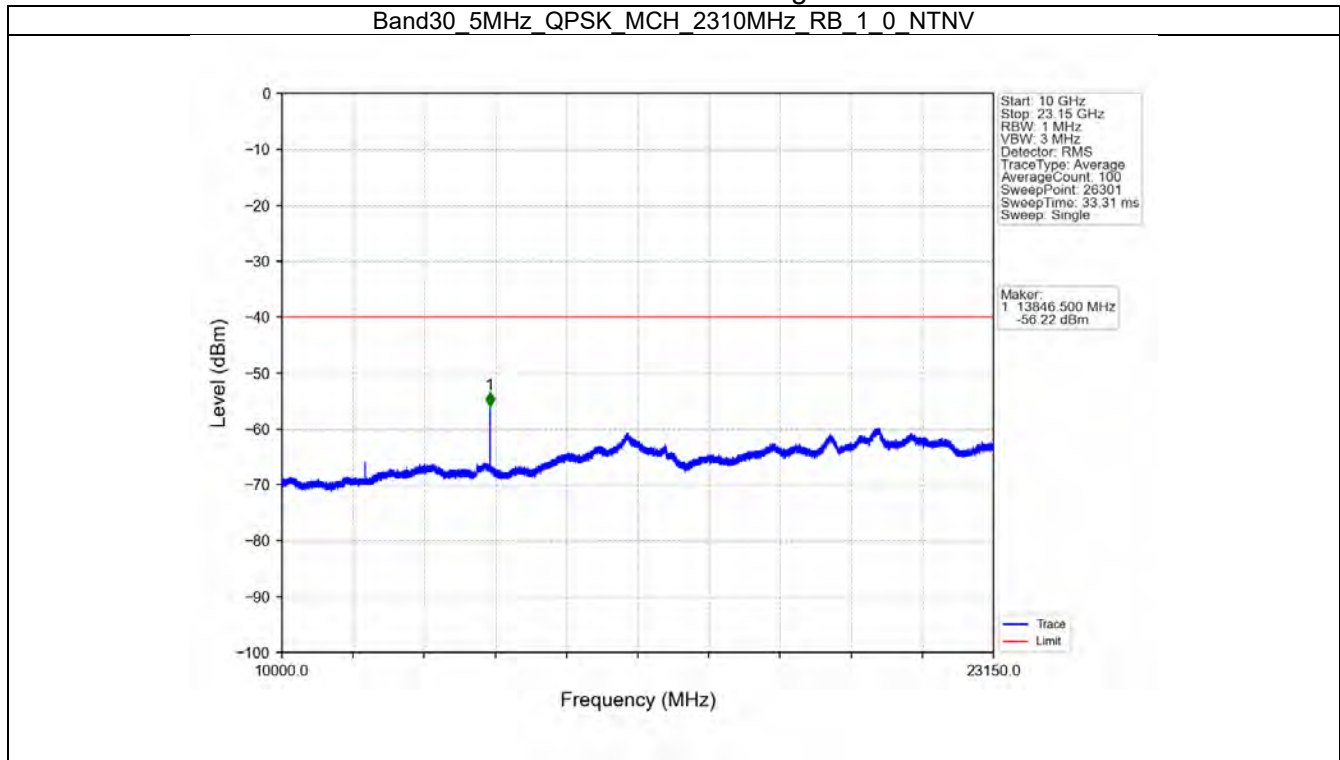
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Band30\_5MHz\_QPSK\_MCH\_2310MHz\_RB\_1\_0\_NTNV



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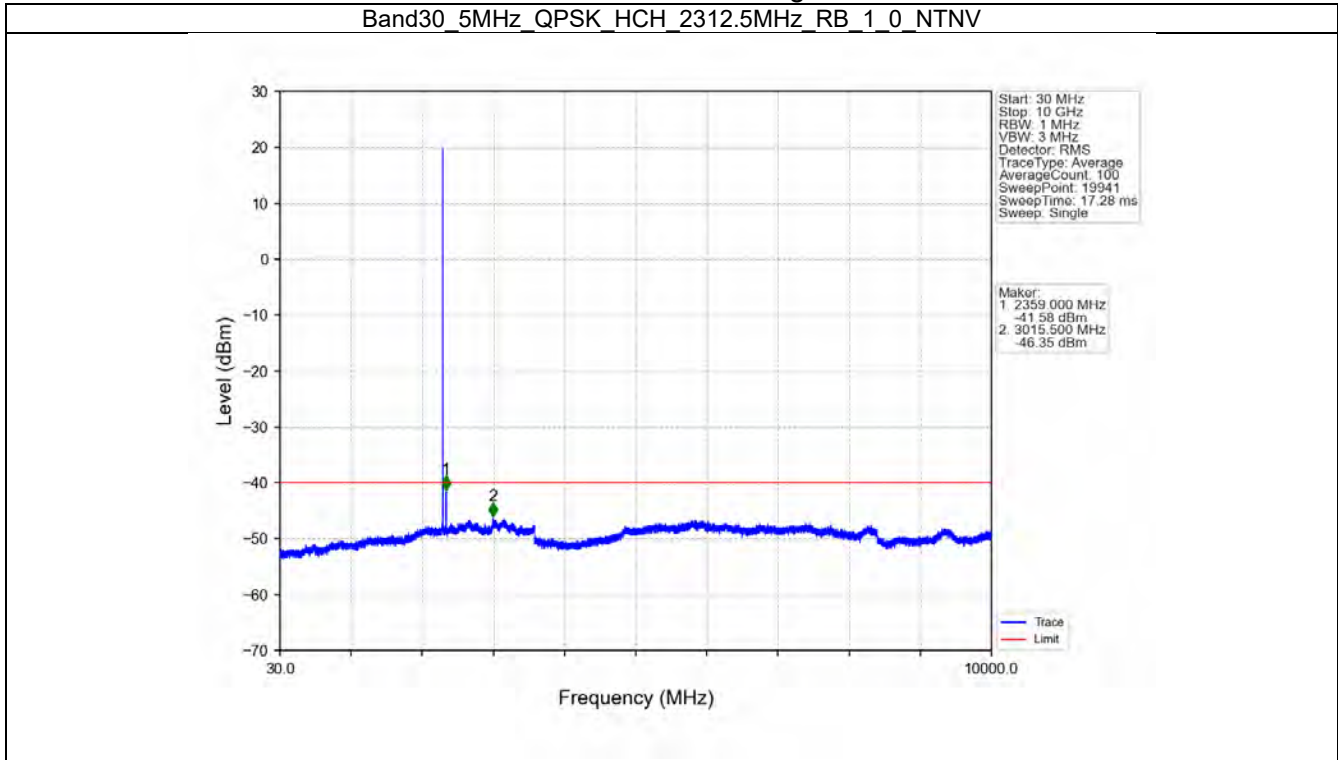
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Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_1\_0\_NTNV



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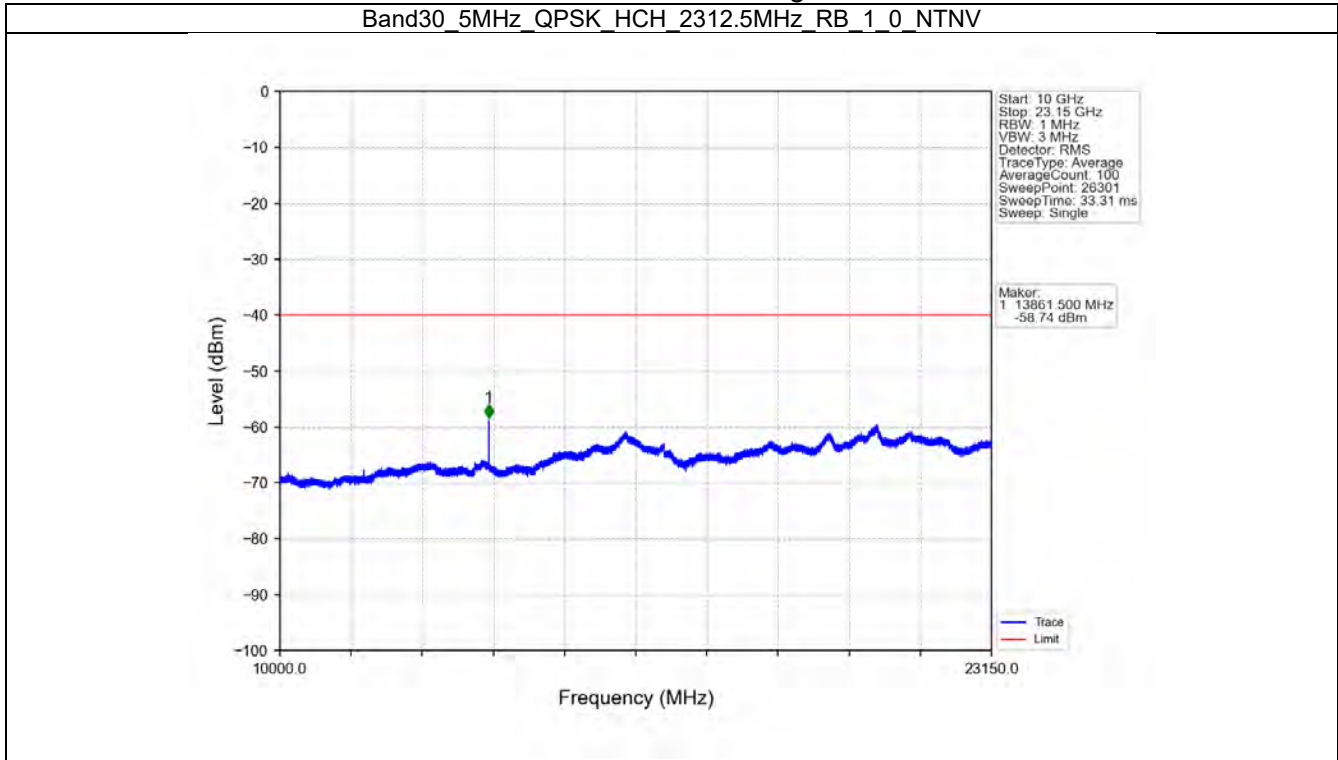
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Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_1\_0\_NTNV



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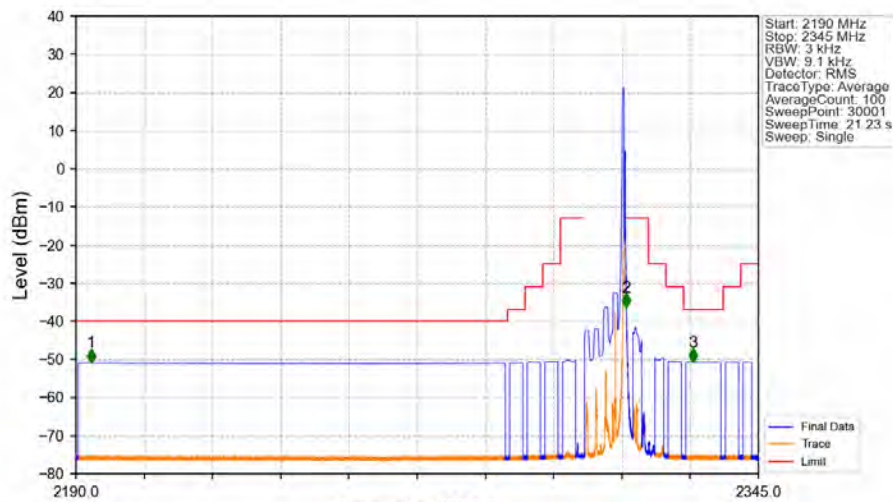


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Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2193.482	-50.92	-40	Pass
2305	2315	1	CHP	2	2315.002	-36.49	-13	Pass
2315	2316	0.003	/	3	2330.218	-50.77	-37	Pass
2316	2345	1	CHP					



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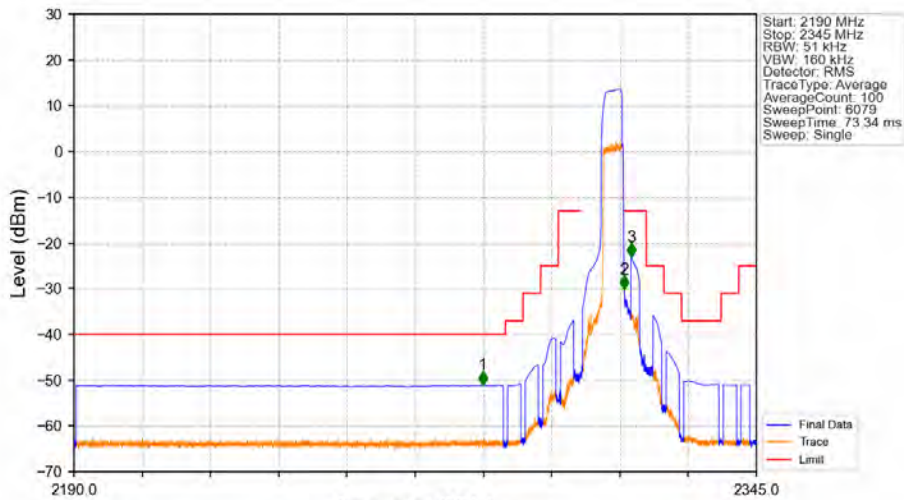
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Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2282.878	-51.05	-40	Pass
2305	2315	1	CHP	2	2315.010	-30.11	-13	Pass
2315	2316	0.051	/	3	2316.514	-23.06	-13	Pass
2316	2345	1	CHP					



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5.2 B30\_10MHz

5.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

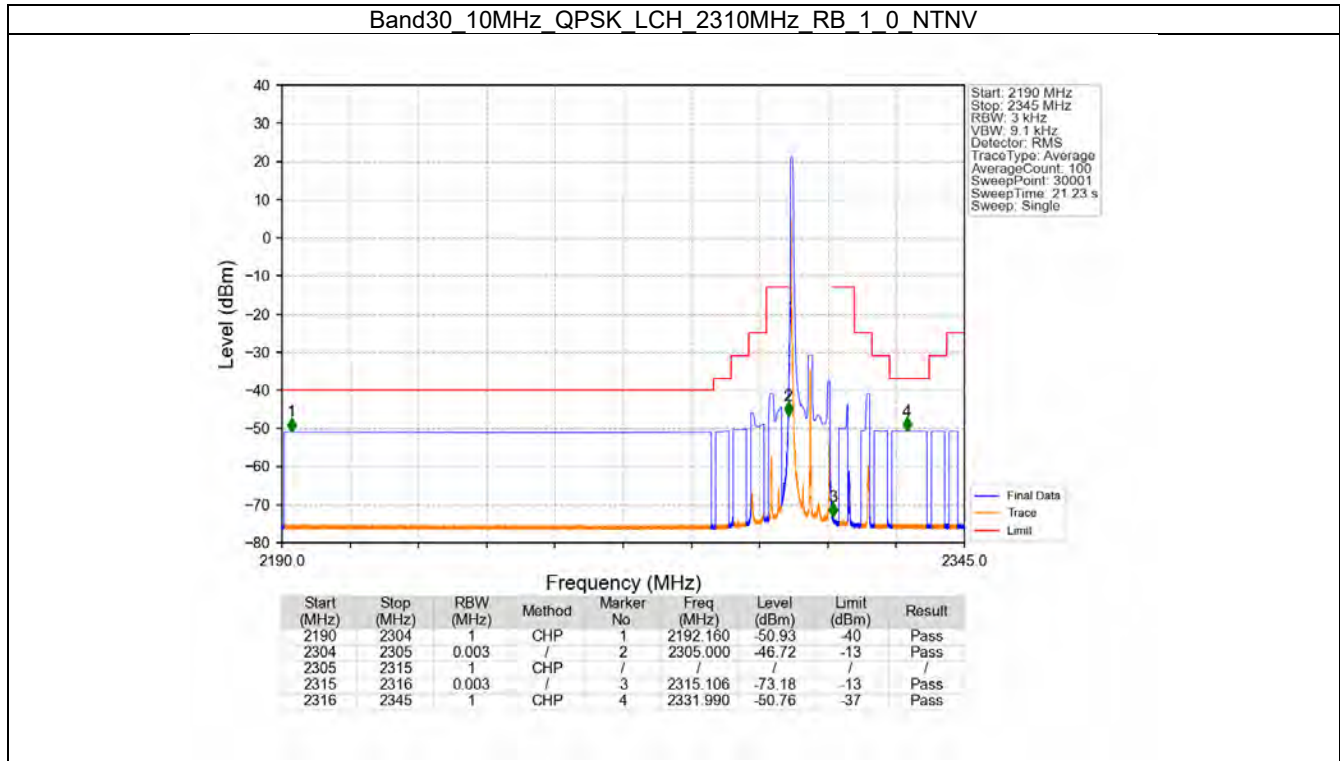


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5.2.2 Test Graph



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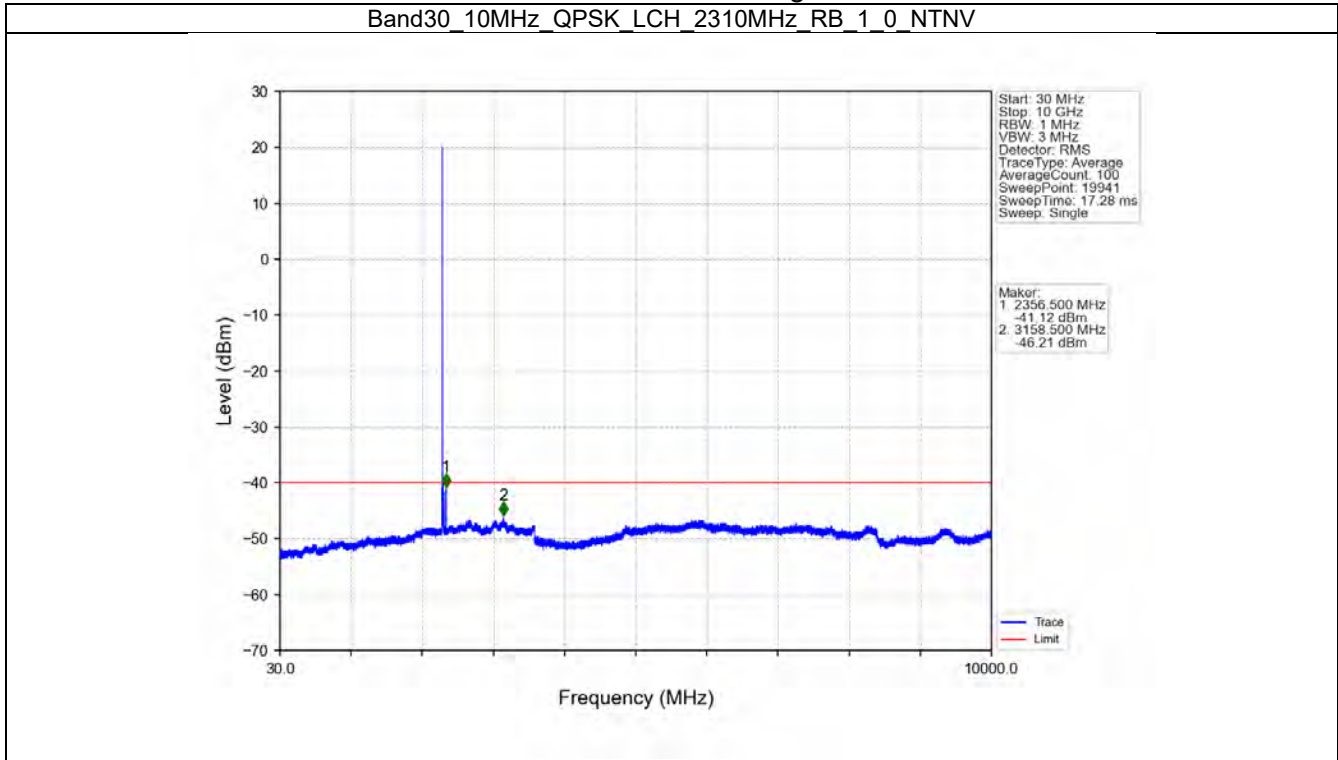


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Band30\_10MHz\_QPSK\_LCH\_2310MHz\_RB\_1\_0\_NTNV



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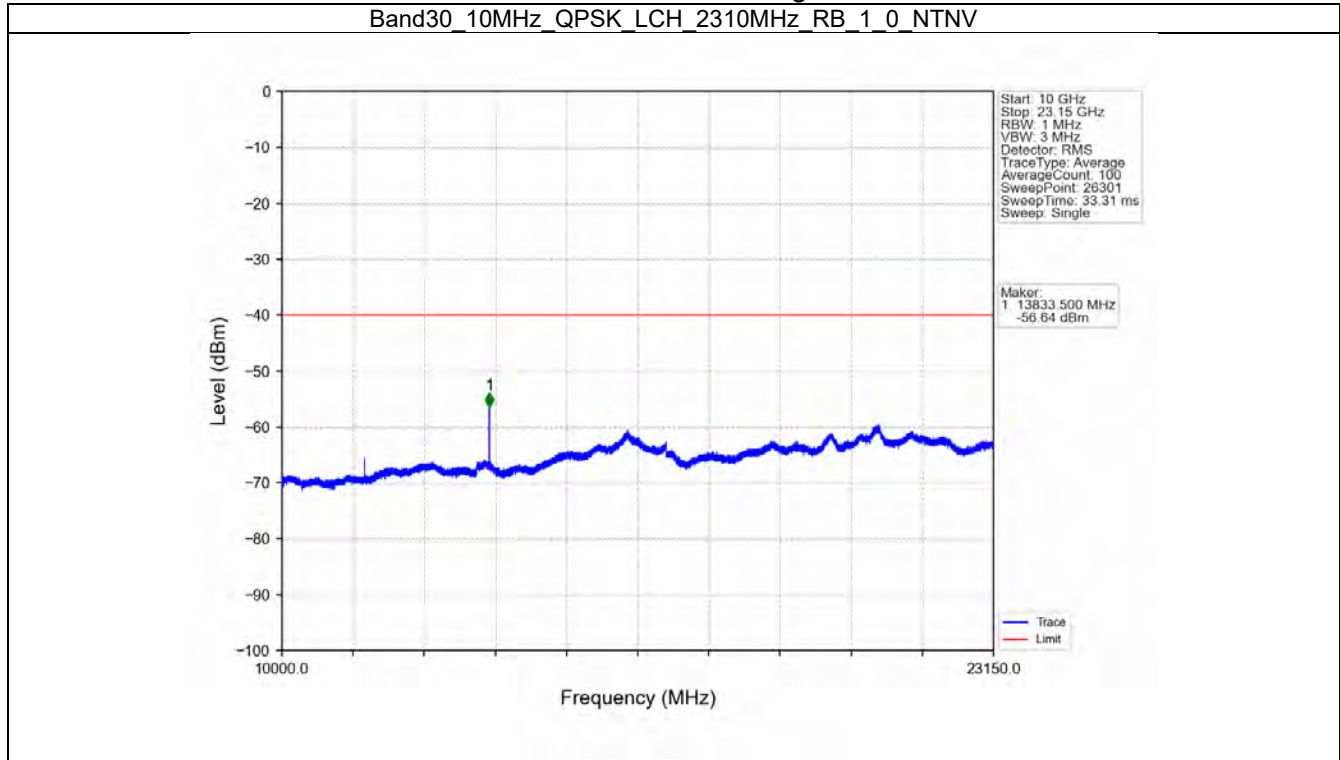
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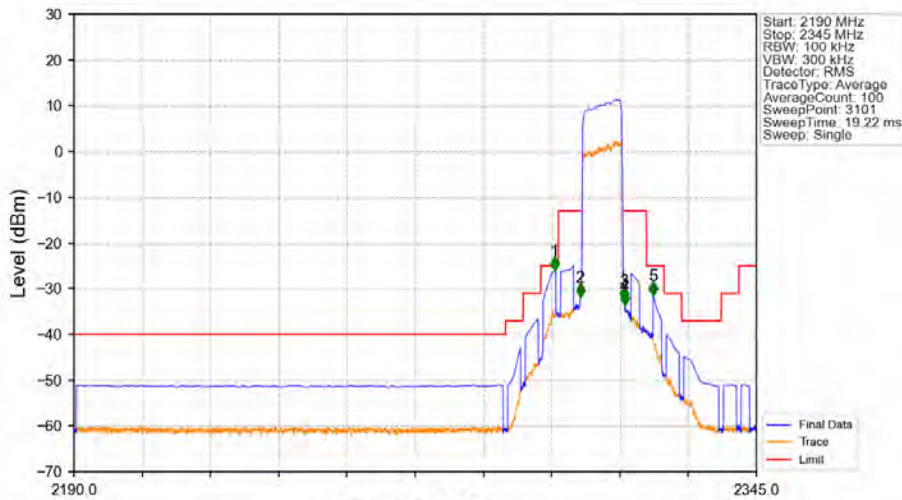
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Band30\_10MHz\_QPSK\_LCH\_2310MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.200	-26.06	-25	Pass
2304	2305	0.1	/	2	2305.000	-31.96	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-32.64	-13	Pass
2315	2316	0.1	/	4	2315.050	-33.70	-13	Pass
2316	2345	1	CHP	5	2321.550	-31.63	-25	Pass

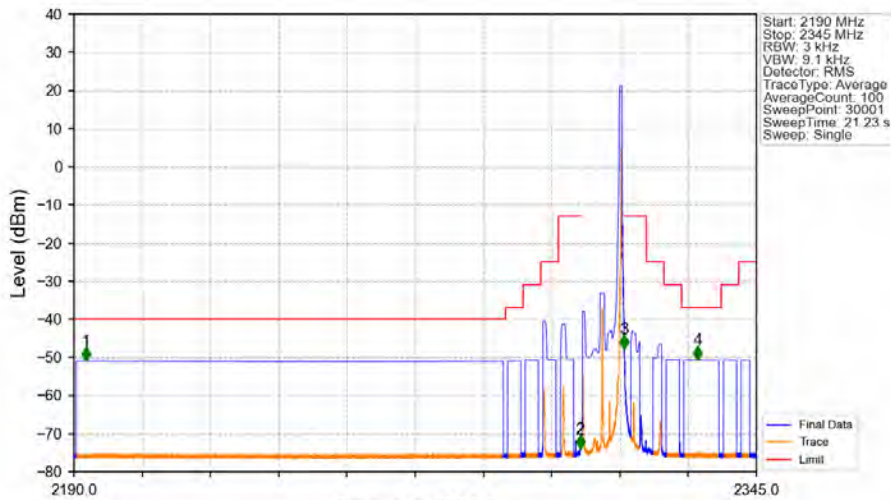


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Band30\_10MHz\_QPSK\_HCH\_2310MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2192.661	-50.95	-40	Pass
2304	2305	0.003	/	2	2304.994	-74.17	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.002	-47.77	-13	Pass
2316	2345	1	CHP	4	2331.665	-50.69	-37	Pass



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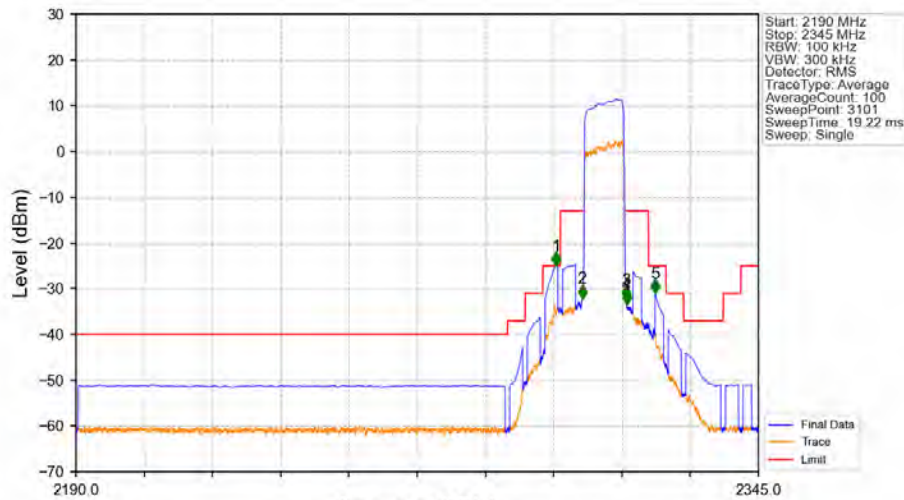
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.050	-25.03	-25	Pass
2304	2305	0.1	/	2	2305.000	-32.17	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-32.40	-13	Pass
2315	2316	0.1	/	4	2315.050	-33.53	-13	Pass
2316	2345	1	CHP	5	2321.550	-31.05	-25	Pass



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## 6. Field Strength of Spurious Radiation

Test Band = LTE Band 30 BW=10M\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.18	40.86	-41.60	32.35	-63.65	-40.00	23.65	Horizontal
2	6916.77	35.67	-38.34	35.97	-61.96	-40.00	21.96	Horizontal
3	9222.36	31.09	-34.37	37.67	-60.87	-40.00	20.87	Horizontal
4	11527.95	28.20	-29.93	38.40	-58.59	-40.00	18.59	Horizontal
5	13833.54	38.14	-29.31	40.18	-46.25	-40.00	6.25	Horizontal
6	16139.13	29.07	-27.16	38.30	-55.05	-40.00	15.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	44.42	-41.60	32.34	-60.09	-40.00	20.09	Vertical
2	6916.77	34.52	-38.34	35.97	-63.11	-40.00	23.11	Vertical
3	9222.36	30.77	-34.37	37.67	-61.19	-40.00	21.19	Vertical
4	11527.95	30.41	-29.93	38.40	-56.38	-40.00	16.38	Vertical
5	13833.54	37.10	-29.31	40.18	-47.29	-40.00	7.29	Vertical
6	16139.13	28.91	-27.16	38.30	-55.21	-40.00	15.21	Vertical



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
 t (86-512) 62992980 sgs.china@sgs.com



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Test Band = LTE Band 30 BW=5M\_ TM1  
 Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.68	40.46	-41.60	32.34	-64.05	-40.00	24.05	Horizontal
2	6916.02	34.17	-38.34	35.97	-63.46	-40.00	23.46	Horizontal
3	9221.36	30.20	-34.37	37.67	-61.77	-40.00	21.77	Horizontal
4	11526.7	28.19	-29.93	38.40	-58.60	-40.00	18.60	Horizontal
5	13832.04	33.99	-29.31	40.18	-50.40	-40.00	10.40	Horizontal
6	16137.38	28.67	-27.16	38.30	-55.45	-40.00	15.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	40.91	-41.60	32.34	-63.61	-40.00	23.61	Vertical
2	13831.5	36.40	-29.31	40.18	-47.99	-40.00	7.99	Vertical
3	6916.02	33.05	-38.34	35.97	-64.58	-40.00	24.58	Vertical
4	9221.36	30.69	-34.37	37.67	-61.28	-40.00	21.28	Vertical
5	11526.7	27.61	-29.93	38.40	-59.18	-40.00	19.18	Vertical
6	16137.38	28.76	-27.16	38.30	-55.36	-40.00	15.36	Vertical



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Test Band = LTE Band 30 BW=5M\_ TM1  
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.68	40.93	-41.59	32.36	-63.57	-40.00	23.57	Horizontal
2	6923.52	34.17	-38.34	35.97	-63.46	-40.00	23.46	Horizontal
3	9231.36	30.80	-34.34	37.67	-61.14	-40.00	21.14	Horizontal
4	11539.2	27.99	-29.90	38.40	-58.77	-40.00	18.77	Horizontal
5	13847.04	34.91	-29.29	40.19	-49.45	-40.00	9.45	Horizontal
6	16154.88	28.71	-27.14	38.31	-55.38	-40.00	15.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	42.08	-41.59	32.35	-62.42	-40.00	22.42	Vertical
2	6923.52	33.55	-38.34	35.97	-64.08	-40.00	24.08	Vertical
3	9231.36	29.71	-34.34	37.67	-62.23	-40.00	22.23	Vertical
4	11539.2	29.01	-29.90	38.40	-57.75	-40.00	17.75	Vertical
5	13847.04	38.39	-29.29	40.19	-45.97	-40.00	5.97	Vertical
6	16154.88	28.14	-27.14	38.31	-55.95	-40.00	15.95	Vertical



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**Test Band = LTE Band 30 BW=5M\_ TM1**  
**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	44.77	-41.59	32.37	-59.71	-40.00	19.71	Horizontal
2	13862	37.71	-29.27	40.20	-46.61	-40.00	6.61	Horizontal
3	6931.02	34.14	-38.35	35.97	-63.49	-40.00	23.49	Horizontal
4	9241.32	30.35	-34.32	37.67	-61.56	-40.00	21.56	Horizontal
5	11551.7	28.00	-29.88	38.40	-58.74	-40.00	18.74	Horizontal
6	16172.38	29.14	-27.12	38.32	-54.92	-40.00	14.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	13862	37.30	-29.27	40.20	-47.02	-40.00	7.02	Vertical
2	4620.68	40.44	-41.59	32.37	-64.04	-40.00	24.04	Vertical
3	6931.02	33.39	-38.35	35.97	-64.24	-40.00	24.24	Vertical
4	9241.32	30.35	-34.32	37.67	-61.56	-40.00	21.56	Vertical
5	11551.7	28.82	-29.88	38.40	-57.92	-40.00	17.92	Vertical
6	16172.38	29.68	-27.12	38.32	-54.38	-40.00	14.38	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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