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# Appendix B.9

## LTE Band 14



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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B14\_5MHz\_ERPAnt0

### 1.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTNv										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	790.5	1	0	24.21	-3.30	18.76	<=34.77	Pass		
			13	24.21	-3.30	18.76	<=34.77	Pass		
			24	24.24	-3.30	18.79	<=34.77	Pass		
		12	0	23.21	-3.30	17.76	<=34.77	Pass		
			6	23.19	-3.30	17.74	<=34.77	Pass		
			13	23.18	-3.30	17.73	<=34.77	Pass		
		25	0	23.24	-3.30	17.79	<=34.77	Pass		
		793	1	0	22.21	-3.30	16.76	<=34.77	Pass	
				13	22.21	-3.30	16.76	<=34.77	Pass	
	24			22.22	-3.30	16.77	<=34.77	Pass		
	12		0	22.22	-3.30	16.77	<=34.77	Pass		
			6	22.22	-3.30	16.77	<=34.77	Pass		
			13	22.21	-3.30	16.76	<=34.77	Pass		
	25	0	22.22	-3.30	16.77	<=34.77	Pass			
	795.5	1	0	22.59	-3.30	17.14	<=34.77	Pass		
			13	22.59	-3.30	17.14	<=34.77	Pass		
			24	22.58	-3.30	17.13	<=34.77	Pass		
		12	0	22.58	-3.30	17.13	<=34.77	Pass		
			6	22.58	-3.30	17.13	<=34.77	Pass		
			13	22.57	-3.30	17.12	<=34.77	Pass		
		25	0	22.58	-3.30	17.13	<=34.77	Pass		
		16QAM	790.5	1	0	23.29	-3.30	17.84	<=34.77	Pass
					13	23.29	-3.30	17.84	<=34.77	Pass
	24				23.33	-3.30	17.88	<=34.77	Pass	
12	0			22.25	-3.30	16.80	<=34.77	Pass		
	6			22.22	-3.30	16.77	<=34.77	Pass		
	13			22.20	-3.30	16.75	<=34.77	Pass		
25	0		22.26	-3.30	16.81	<=34.77	Pass			
793	1		0	22.22	-3.30	16.77	<=34.77	Pass		
			13	22.22	-3.30	16.77	<=34.77	Pass		
			24	22.21	-3.30	16.76	<=34.77	Pass		
	12		0	22.21	-3.30	16.76	<=34.77	Pass		
			6	22.22	-3.30	16.77	<=34.77	Pass		
			13	22.21	-3.30	16.76	<=34.77	Pass		
25	0		22.21	-3.30	16.76	<=34.77	Pass			
795.5	1		0	22.57	-3.30	17.12	<=34.77	Pass		
			13	22.57	-3.30	17.12	<=34.77	Pass		



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64QAM	790.5	12	24	22.58	-3.30	17.13	<=34.77	Pass
			0	22.58	-3.30	17.13	<=34.77	Pass
			6	22.58	-3.30	17.13	<=34.77	Pass
		25	13	22.59	-3.30	17.14	<=34.77	Pass
			0	22.58	-3.30	17.13	<=34.77	Pass
			6	22.58	-3.30	17.13	<=34.77	Pass
	793	1	0	22.43	-3.30	16.98	<=34.77	Pass
			13	22.41	-3.30	16.96	<=34.77	Pass
			24	22.47	-3.30	17.02	<=34.77	Pass
		12	0	21.35	-3.30	15.90	<=34.77	Pass
			6	21.34	-3.30	15.89	<=34.77	Pass
			13	21.30	-3.30	15.85	<=34.77	Pass
795.5	1	0	21.22	-3.30	15.77	<=34.77	Pass	
		13	22.22	-3.30	16.77	<=34.77	Pass	
		24	22.22	-3.30	16.77	<=34.77	Pass	
	12	0	22.22	-3.30	16.77	<=34.77	Pass	
		6	22.22	-3.30	16.77	<=34.77	Pass	
		13	22.21	-3.30	16.76	<=34.77	Pass	
256QAM	790.5	1	0	22.21	-3.30	16.76	<=34.77	Pass
			13	22.58	-3.30	17.13	<=34.77	Pass
			24	22.57	-3.30	17.12	<=34.77	Pass
		12	0	22.58	-3.30	17.13	<=34.77	Pass
			6	22.58	-3.30	17.13	<=34.77	Pass
			13	22.59	-3.30	17.14	<=34.77	Pass
	793	1	0	22.58	-3.30	17.13	<=34.77	Pass
			13	19.24	-3.30	13.79	<=34.77	Pass
			24	19.23	-3.30	13.78	<=34.77	Pass
		12	0	19.28	-3.30	13.83	<=34.77	Pass
			6	19.24	-3.30	13.79	<=34.77	Pass
			13	19.22	-3.30	13.77	<=34.77	Pass
795.5	1	0	19.19	-3.30	13.74	<=34.77	Pass	
		13	18.97	-3.30	13.52	<=34.77	Pass	
		24	19.05	-3.30	13.60	<=34.77	Pass	
	12	0	19.02	-3.30	13.57	<=34.77	Pass	
		6	19.29	-3.30	13.84	<=34.77	Pass	
		13	19.28	-3.30	13.83	<=34.77	Pass	
795.5	1	0	19.28	-3.30	13.83	<=34.77	Pass	
		6	19.30	-3.30	13.85	<=34.77	Pass	
		13	19.30	-3.30	13.85	<=34.77	Pass	
	12	0	19.51	-3.30	14.06	<=34.77	Pass	
		6	19.49	-3.30	14.04	<=34.77	Pass	
		13	19.51	-3.30	14.06	<=34.77	Pass	
795.5	1	0	19.34	-3.30	13.89	<=34.77	Pass	
		6	19.33	-3.30	13.88	<=34.77	Pass	
		13	19.33	-3.30	13.88	<=34.77	Pass	
	12	0	19.33	-3.30	13.88	<=34.77	Pass	
		6	19.33	-3.30	13.88	<=34.77	Pass	
		13	19.33	-3.30	13.88	<=34.77	Pass	
795.5	1	0	19.31	-3.30	13.86	<=34.77	Pass	
		6	19.31	-3.30	13.86	<=34.77	Pass	
		13	19.31	-3.30	13.86	<=34.77	Pass	
	12	0	19.31	-3.30	13.86	<=34.77	Pass	
		6	19.31	-3.30	13.86	<=34.77	Pass	
		13	19.31	-3.30	13.86	<=34.77	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.2 B14\_10MHz\_ERP

1.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	793	1	0	22.77	-3.30	17.32	<=34.77	Pass		
			25	22.75	-3.30	17.30	<=34.77	Pass		
			49	22.75	-3.30	17.30	<=34.77	Pass		
		25	0	22.77	-3.30	17.32	<=34.77	Pass		
			13	22.78	-3.30	17.33	<=34.77	Pass		
			25	22.76	-3.30	17.31	<=34.77	Pass		
		50	0	22.77	-3.30	17.32	<=34.77	Pass		
		16QAM	793	1	0	22.78	-3.30	17.33	<=34.77	Pass
					25	22.78	-3.30	17.33	<=34.77	Pass
49	22.77				-3.30	17.32	<=34.77	Pass		
25	0			22.78	-3.30	17.33	<=34.77	Pass		
	13			22.77	-3.30	17.32	<=34.77	Pass		
	25			22.77	-3.30	17.32	<=34.77	Pass		
50	0			22.77	-3.30	17.32	<=34.77	Pass		
64QAM	793			1	0	22.77	-3.30	17.32	<=34.77	Pass
					25	22.78	-3.30	17.33	<=34.77	Pass
		49	22.76		-3.30	17.31	<=34.77	Pass		
		25	0	22.78	-3.30	17.33	<=34.77	Pass		
			13	22.78	-3.30	17.33	<=34.77	Pass		
			25	22.77	-3.30	17.32	<=34.77	Pass		
		50	0	22.77	-3.30	17.32	<=34.77	Pass		
		256QAM	793	1	0	19.63	-3.30	14.18	<=34.77	Pass
					25	19.68	-3.30	14.23	<=34.77	Pass
49	19.68				-3.30	14.23	<=34.77	Pass		
25	0			19.26	-3.30	13.81	<=34.77	Pass		
	13			19.28	-3.30	13.83	<=34.77	Pass		
	25			19.25	-3.30	13.80	<=34.77	Pass		
50	0			19.23	-3.30	13.78	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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## 2. Frequency Stability

### 2.1 B14\_5MHz

#### 2.1.1 Test Result

Band: 14 / Bandwidth: 5MHz								
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)	Verdict
		Size	Offset				Result	
QPSK	790.5	25	0	20	3.4	-2.704	-0.0034	Pass
					3.8	-2.561	-0.0032	Pass
					4.4	-1.330	-0.0017	Pass
				-30	3.8	-3.176	-0.0040	Pass
				-20	3.8	-2.503	-0.0032	Pass
				-10	3.8	0.844	0.0011	Pass
				0	3.8	-1.874	-0.0024	Pass
				10	3.8	-4.206	-0.0053	Pass
				30	3.8	-1.345	-0.0017	Pass
				40	3.8	-4.392	-0.0056	Pass
	50	3.8	-4.163	-0.0053	Pass			
	793	25	0	20	3.4	-0.958	-0.0012	Pass
					3.8	-0.515	-0.0006	Pass
					4.4	-1.001	-0.0013	Pass
				-30	3.8	-3.433	-0.0043	Pass
				-20	3.8	-1.531	-0.0019	Pass
				-10	3.8	-3.705	-0.0047	Pass
				0	3.8	-2.589	-0.0033	Pass
				10	3.8	-3.934	-0.0050	Pass
				30	3.8	-3.419	-0.0043	Pass
				40	3.8	-1.101	-0.0014	Pass
	50	3.8	-3.161	-0.0040	Pass			
	795.5	25	0	20	3.4	-0.243	-0.0003	Pass
					3.8	-5.651	-0.0071	Pass
					4.4	-1.273	-0.0016	Pass
				-30	3.8	-3.891	-0.0049	Pass
				-20	3.8	-0.272	-0.0003	Pass
				-10	3.8	-4.091	-0.0051	Pass
				0	3.8	-4.506	-0.0057	Pass
				10	3.8	-2.604	-0.0033	Pass
30				3.8	-2.689	-0.0034	Pass	
40				3.8	-1.845	-0.0023	Pass	
50	3.8	-3.719	-0.0047	Pass				
16QAM	790.5	25	0	20	3.4	-1.545	-0.0020	Pass
					3.8	-0.858	-0.0011	Pass
					4.4	-1.774	-0.0022	Pass



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				-30	3.8	0.472	0.0006	Pass			
				-20	3.8	-2.761	-0.0035	Pass			
				-10	3.8	-4.964	-0.0063	Pass			
				0	3.8	-3.133	-0.0040	Pass			
				10	3.8	0.401	0.0005	Pass			
				30	3.8	-1.974	-0.0025	Pass			
				40	3.8	0.172	0.0002	Pass			
				50	3.8	1.044	0.0013	Pass			
	793	25	0	20	3.4	-2.747	-0.0035	Pass			
					3.8	-1.030	-0.0013	Pass			
					4.4	-2.832	-0.0036	Pass			
				-30	3.8	-2.546	-0.0032	Pass			
				-20	3.8	-2.289	-0.0029	Pass			
				-10	3.8	-3.319	-0.0042	Pass			
				0	3.8	-1.531	-0.0019	Pass			
				10	3.8	-0.043	-0.0001	Pass			
				30	3.8	-0.930	-0.0012	Pass			
				40	3.8	-3.147	-0.0040	Pass			
				50	3.8	-0.486	-0.0006	Pass			
				795.5	25	0	20	3.4	-0.544	-0.0007	Pass
								3.8	-4.778	-0.0060	Pass
4.4	-1.888	-0.0024	Pass								
-30	3.8	-0.601	-0.0008				Pass				
-20	3.8	0.014	0.0000				Pass				
-10	3.8	1.116	0.0014				Pass				
0	3.8	-2.890	-0.0036				Pass				
10	3.8	0.958	0.0012				Pass				
30	3.8	-1.502	-0.0019				Pass				
40	3.8	-2.060	-0.0026				Pass				
64QAM	790.5	25	0	20	3.4	-4.220	-0.0053	Pass			
					3.8	-2.618	-0.0033	Pass			
					4.4	-3.977	-0.0050	Pass			
				-30	3.8	1.631	0.0021	Pass			
				-20	3.8	-3.133	-0.0040	Pass			
				-10	3.8	-4.835	-0.0061	Pass			
				0	3.8	-5.364	-0.0068	Pass			
				10	3.8	-3.333	-0.0042	Pass			
				30	3.8	-4.120	-0.0052	Pass			
				40	3.8	-1.688	-0.0021	Pass			
	50	3.8	-4.091	-0.0052	Pass						
	793	25	0	20	3.4	-3.777	-0.0048	Pass			
					3.8	-2.389	-0.0030	Pass			
					4.4	-0.858	-0.0011	Pass			
				-30	3.8	0.486	0.0006	Pass			
				-20	3.8	-3.576	-0.0045	Pass			
				-10	3.8	-1.688	-0.0021	Pass			
				0	3.8	-5.965	-0.0075	Pass			



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				10	3.8	0.043	0.0001	Pass			
				30	3.8	-1.259	-0.0016	Pass			
				40	3.8	-0.873	-0.0011	Pass			
				50	3.8	-4.535	-0.0057	Pass			
				795.5	25	0	20	3.4	-3.018	-0.0038	Pass
								3.8	0.172	0.0002	Pass
								4.4	-3.834	-0.0048	Pass
							-30	3.8	-2.289	-0.0029	Pass
							-20	3.8	-4.663	-0.0059	Pass
							-10	3.8	-2.332	-0.0029	Pass
							0	3.8	-0.715	-0.0009	Pass
							10	3.8	-0.472	-0.0006	Pass
							30	3.8	-1.230	-0.0015	Pass
							40	3.8	-2.618	-0.0033	Pass
50	3.8	-1.073	-0.0013	Pass							
256QAM	790.5	25	0	20	3.4	-1.731	-0.0022	Pass			
					3.8	-3.920	-0.0050	Pass			
					4.4	-3.991	-0.0050	Pass			
				-30	3.8	0.544	0.0007	Pass			
				-20	3.8	-0.429	-0.0005	Pass			
				-10	3.8	-4.034	-0.0051	Pass			
				0	3.8	-1.559	-0.0020	Pass			
				10	3.8	-5.479	-0.0069	Pass			
				30	3.8	-2.089	-0.0026	Pass			
				40	3.8	-2.489	-0.0031	Pass			
				50	3.8	-2.604	-0.0033	Pass			
				793	25	0	20	3.4	-3.147	-0.0040	Pass
								3.8	-4.606	-0.0058	Pass
								4.4	-1.473	-0.0019	Pass
	-30	3.8	-2.203				-0.0028	Pass			
	-20	3.8	-3.920				-0.0049	Pass			
	-10	3.8	-4.992				-0.0063	Pass			
	0	3.8	0.372				0.0005	Pass			
	10	3.8	0.300				0.0004	Pass			
	30	3.8	-0.386				-0.0005	Pass			
	40	3.8	-1.502				-0.0019	Pass			
	50	3.8	-4.034				-0.0051	Pass			
	795.5	25	0				20	3.4	-5.279	-0.0066	Pass
								3.8	-2.403	-0.0030	Pass
								4.4	-3.877	-0.0049	Pass
				-30	3.8	-1.101	-0.0014	Pass			
				-20	3.8	-4.563	-0.0057	Pass			
				-10	3.8	-2.160	-0.0027	Pass			
0				3.8	-1.173	-0.0015	Pass				
10				3.8	1.287	0.0016	Pass				
30				3.8	-4.463	-0.0056	Pass				
40				3.8	-3.662	-0.0046	Pass				
50				3.8	-3.247	-0.0041	Pass				



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2.2 B14\_10MHz

2.2.1 Test Result

Band: 14 / Bandwidth: 10MHz								
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)	Verdict
		Size	Offset				Result	
QPSK	793	50	0	20	3.4	-2.418	-0.0030	Pass
					3.8	-0.615	-0.0008	Pass
					4.4	-2.074	-0.0026	Pass
				-30	3.8	-1.101	-0.0014	Pass
				-20	3.8	-3.748	-0.0047	Pass
				-10	3.8	-0.086	-0.0001	Pass
				0	3.8	-0.930	-0.0012	Pass
				10	3.8	-1.945	-0.0025	Pass
				30	3.8	-1.073	-0.0014	Pass
				40	3.8	-4.907	-0.0062	Pass
50	3.8	-1.616	-0.0020	Pass				
16QAM	793	50	0	20	3.4	-2.646	-0.0033	Pass
					3.8	-1.717	-0.0022	Pass
					4.4	-2.789	-0.0035	Pass
				-30	3.8	-1.788	-0.0023	Pass
				-20	3.8	-3.033	-0.0038	Pass
				-10	3.8	-1.874	-0.0024	Pass
				0	3.8	0.086	0.0001	Pass
				10	3.8	-2.818	-0.0036	Pass
				30	3.8	-2.890	-0.0036	Pass
				40	3.8	-3.791	-0.0048	Pass
50	3.8	-2.232	-0.0028	Pass				
64QAM	793	50	0	20	3.4	-2.203	-0.0028	Pass
					3.8	-2.146	-0.0027	Pass
					4.4	-2.704	-0.0034	Pass
				-30	3.8	-1.974	-0.0025	Pass
				-20	3.8	-2.418	-0.0030	Pass
				-10	3.8	-2.503	-0.0032	Pass
				0	3.8	-3.948	-0.0050	Pass
				10	3.8	-1.230	-0.0016	Pass
				30	3.8	-4.492	-0.0057	Pass
				40	3.8	-2.146	-0.0027	Pass
50	3.8	-4.120	-0.0052	Pass				
256QAM	793	50	0	20	3.4	-3.963	-0.0050	Pass
					3.8	-5.250	-0.0066	Pass
					4.4	-2.189	-0.0028	Pass
				-30	3.8	-0.257	-0.0003	Pass



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				-20	3.8	-0.243	-0.0003	Pass
				-10	3.8	-3.591	-0.0045	Pass
				0	3.8	-0.458	-0.0006	Pass
				10	3.8	-2.260	-0.0028	Pass
				30	3.8	-4.935	-0.0062	Pass
				40	3.8	-4.206	-0.0053	Pass
				50	3.8	-0.157	-0.0002	Pass



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### 3. 99% & 26dB Bandwidth

#### 3.1 Band14\_OBW

##### 3.1.1 Test Result

Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	4.549	/	Pass
		793	25	0	4.546	/	Pass
		795.5	25	0	4.539	/	Pass
	16QAM	790.5	25	0	4.552	/	Pass
		793	25	0	4.546	/	Pass
		795.5	25	0	4.559	/	Pass
	64QAM	790.5	25	0	4.543	/	Pass
		793	25	0	4.547	/	Pass
		795.5	25	0	4.548	/	Pass
	256QAM	790.5	25	0	4.554	/	Pass
		793	25	0	4.574	/	Pass
		795.5	25	0	4.549	/	Pass
10	QPSK	793	50	0	9.046	/	Pass
	16QAM	793	50	0	9.043	/	Pass
	64QAM	793	50	0	9.018	/	Pass
	256QAM	793	50	0	9.032	/	Pass

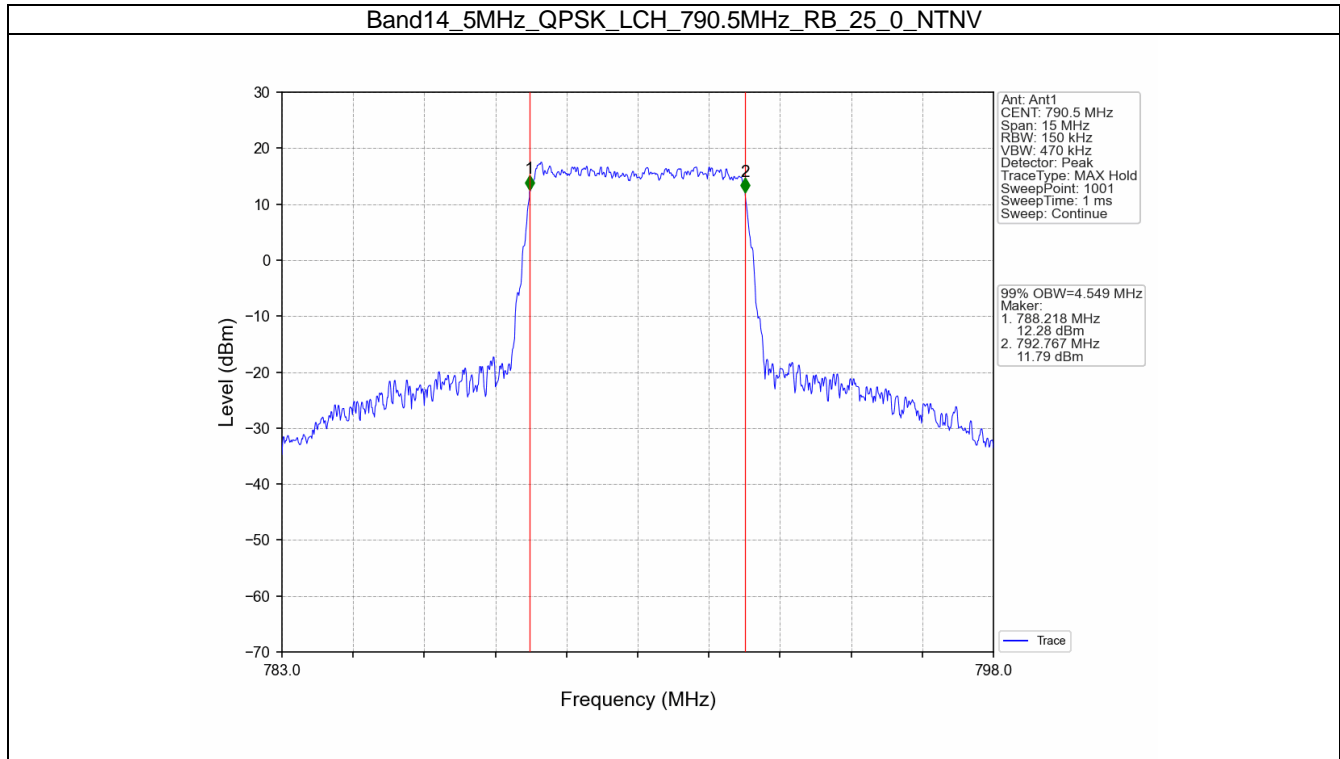


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### 3.1.2 Test Graph



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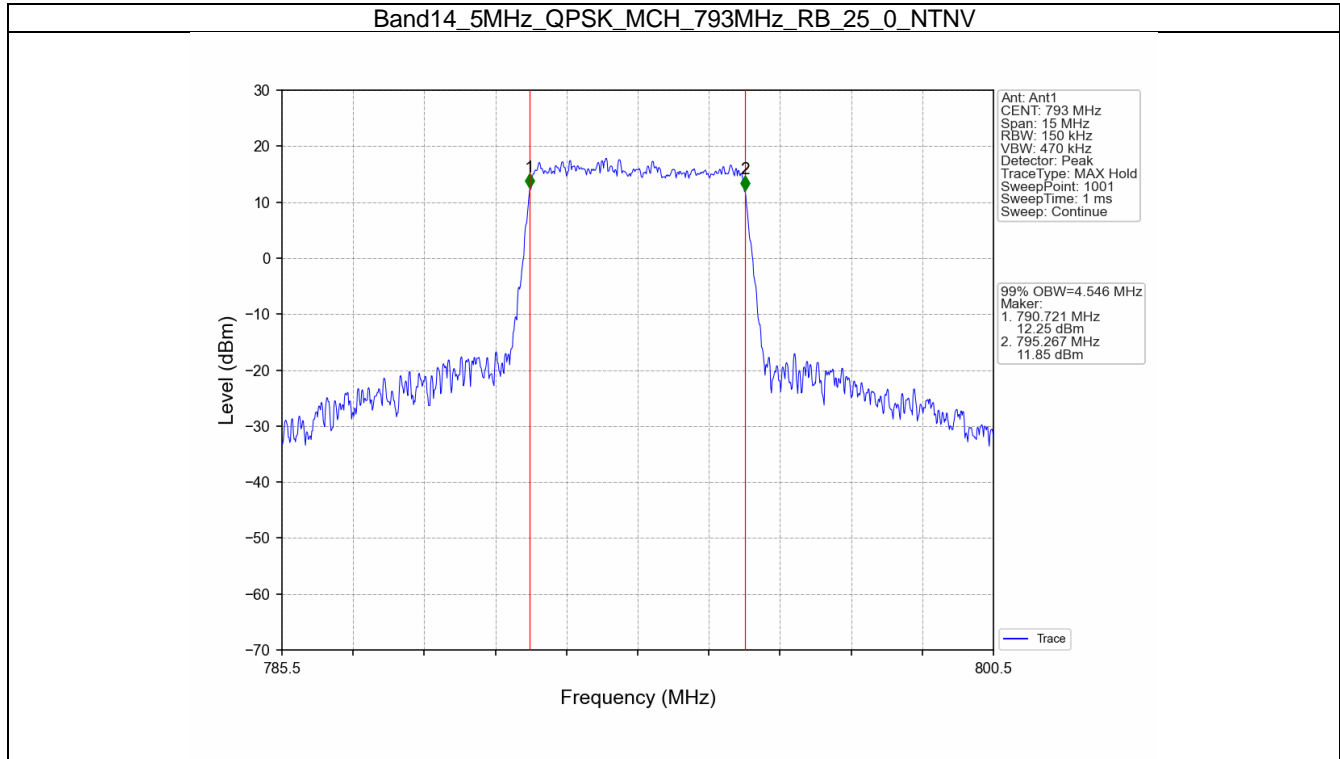
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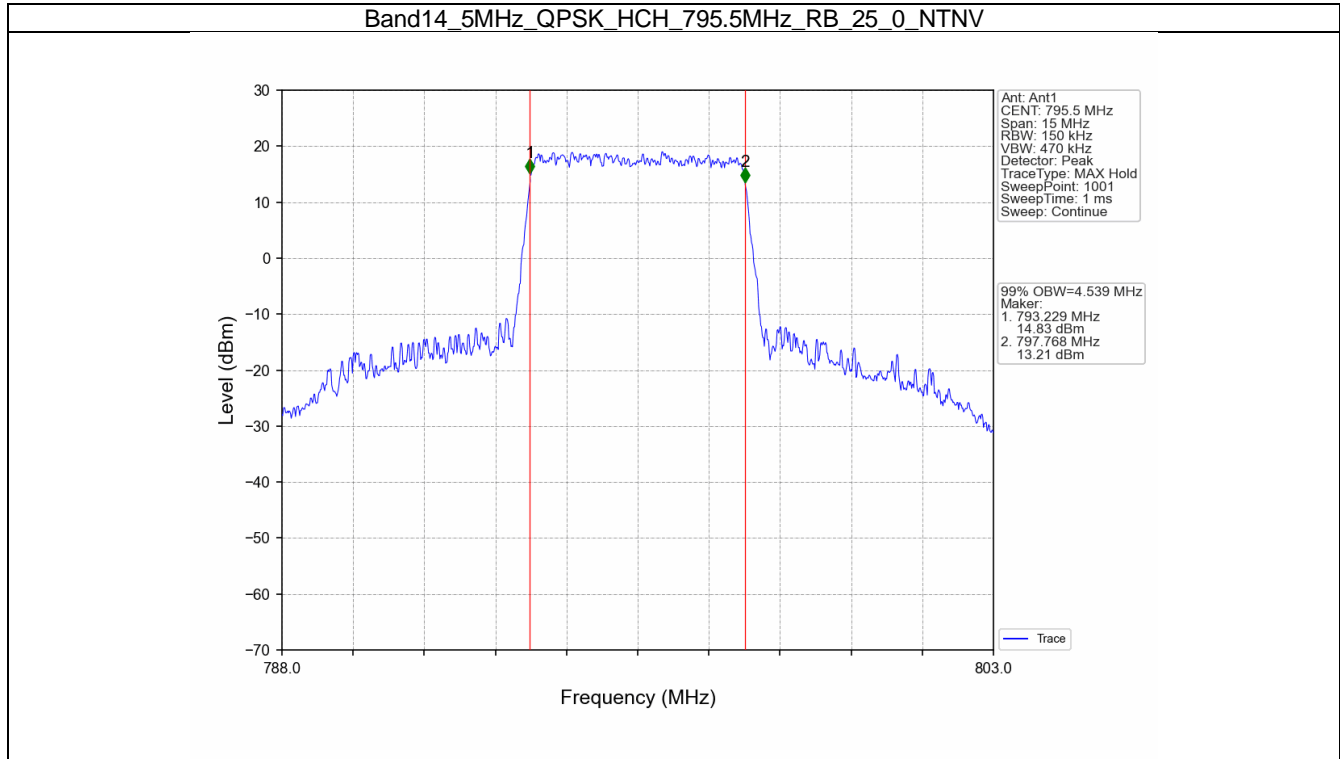
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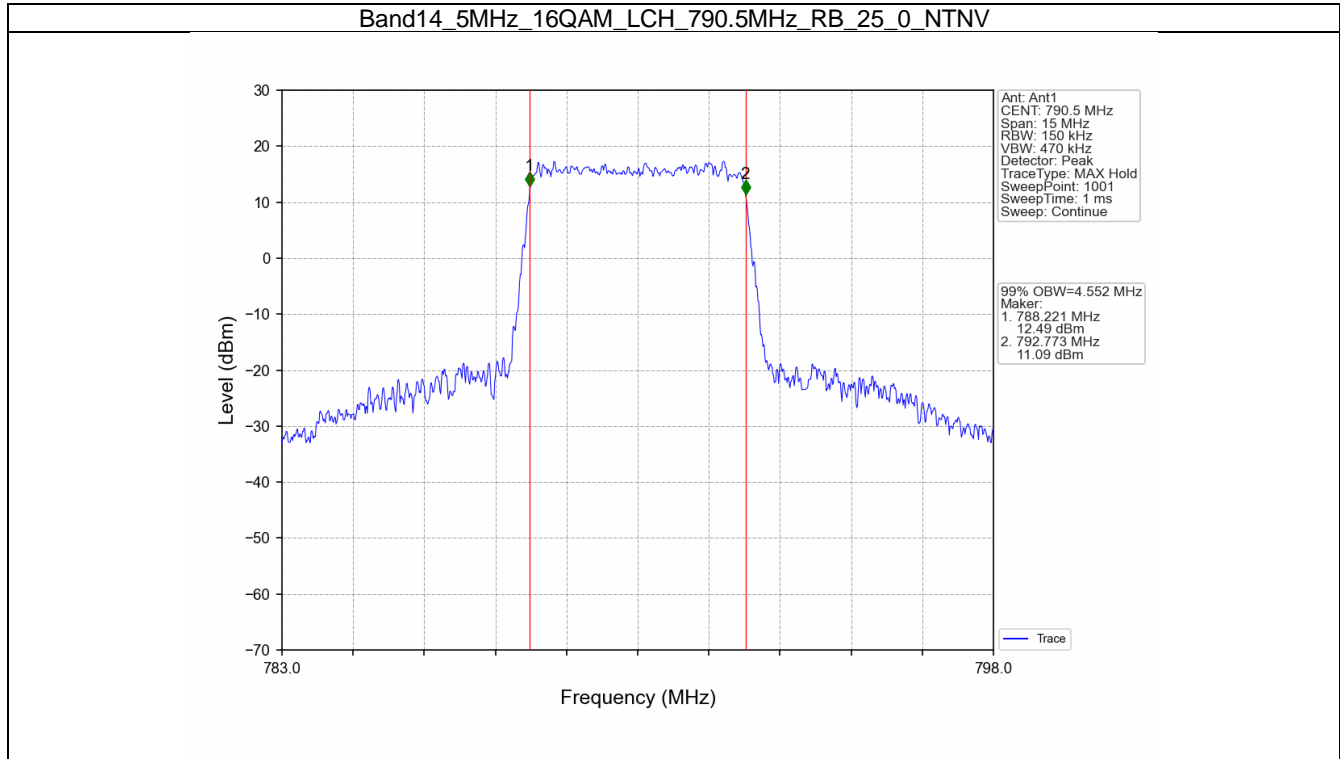


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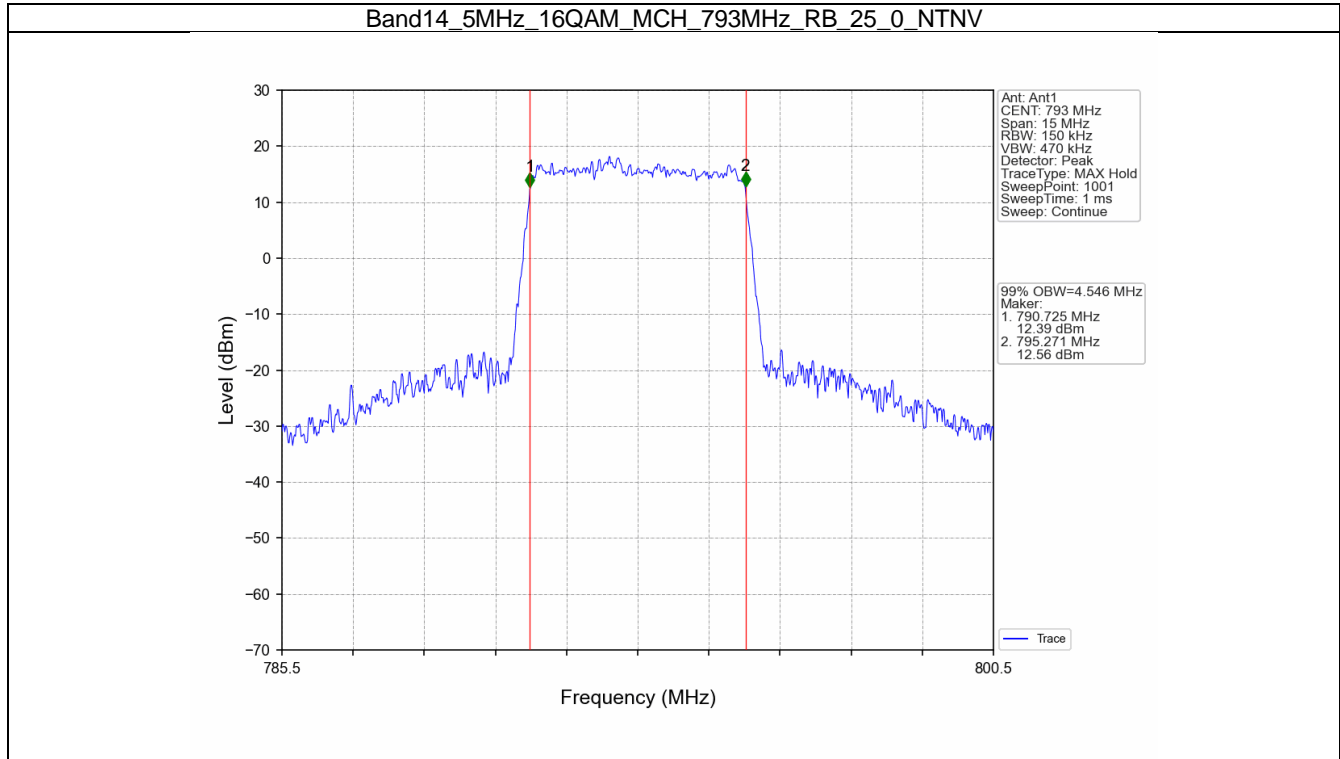
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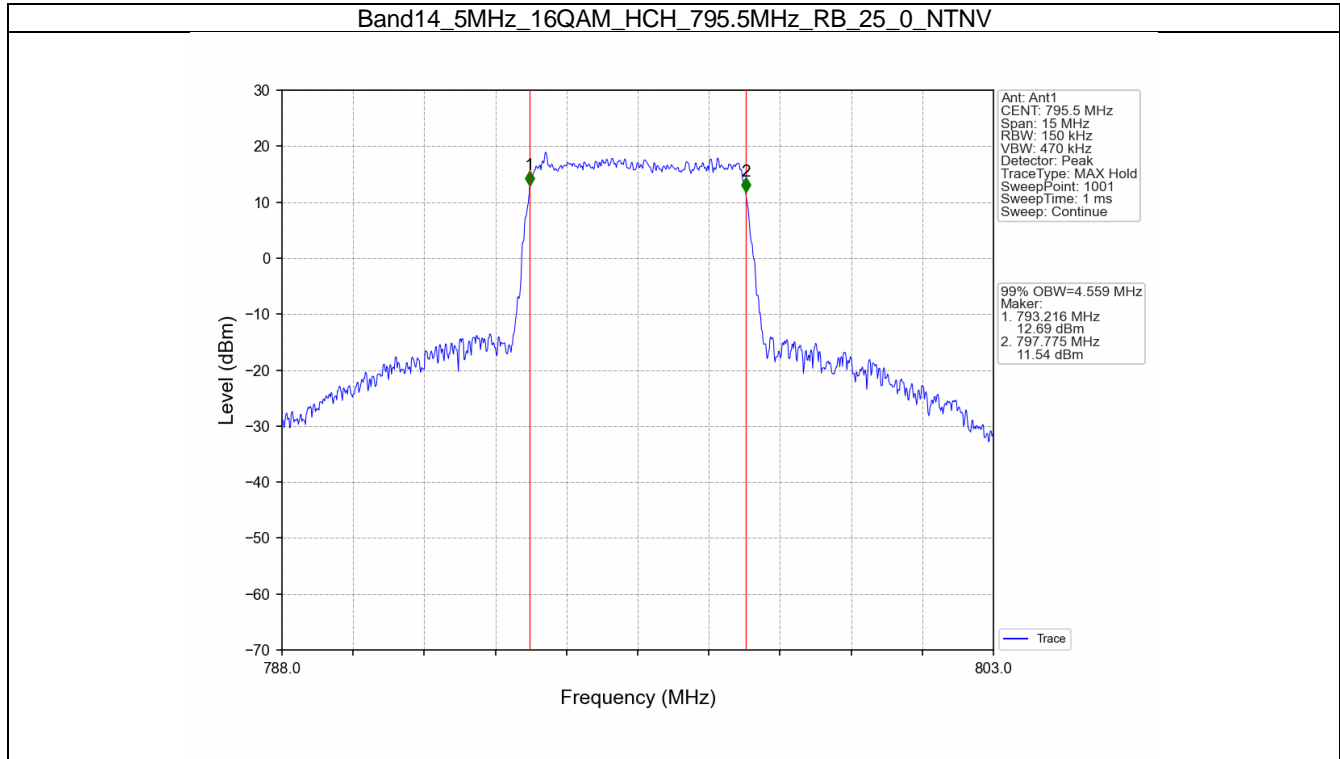
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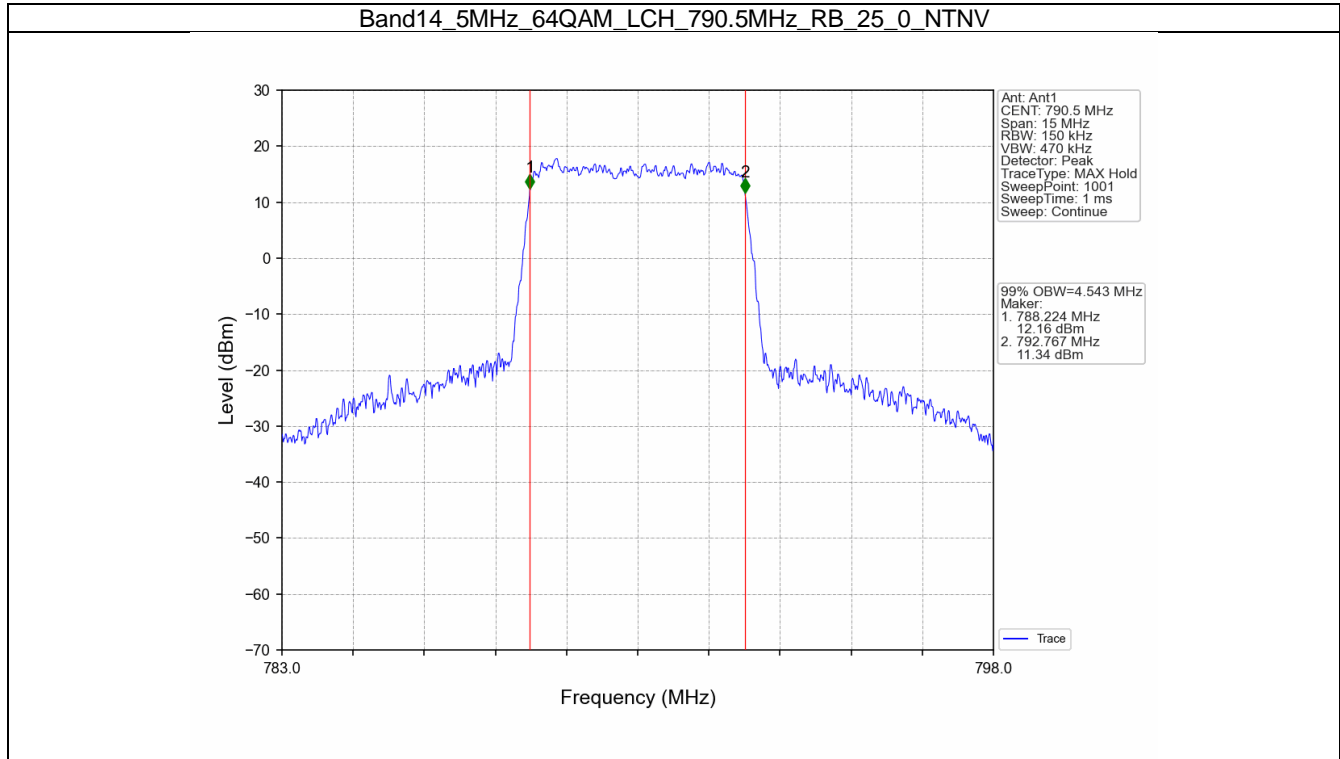
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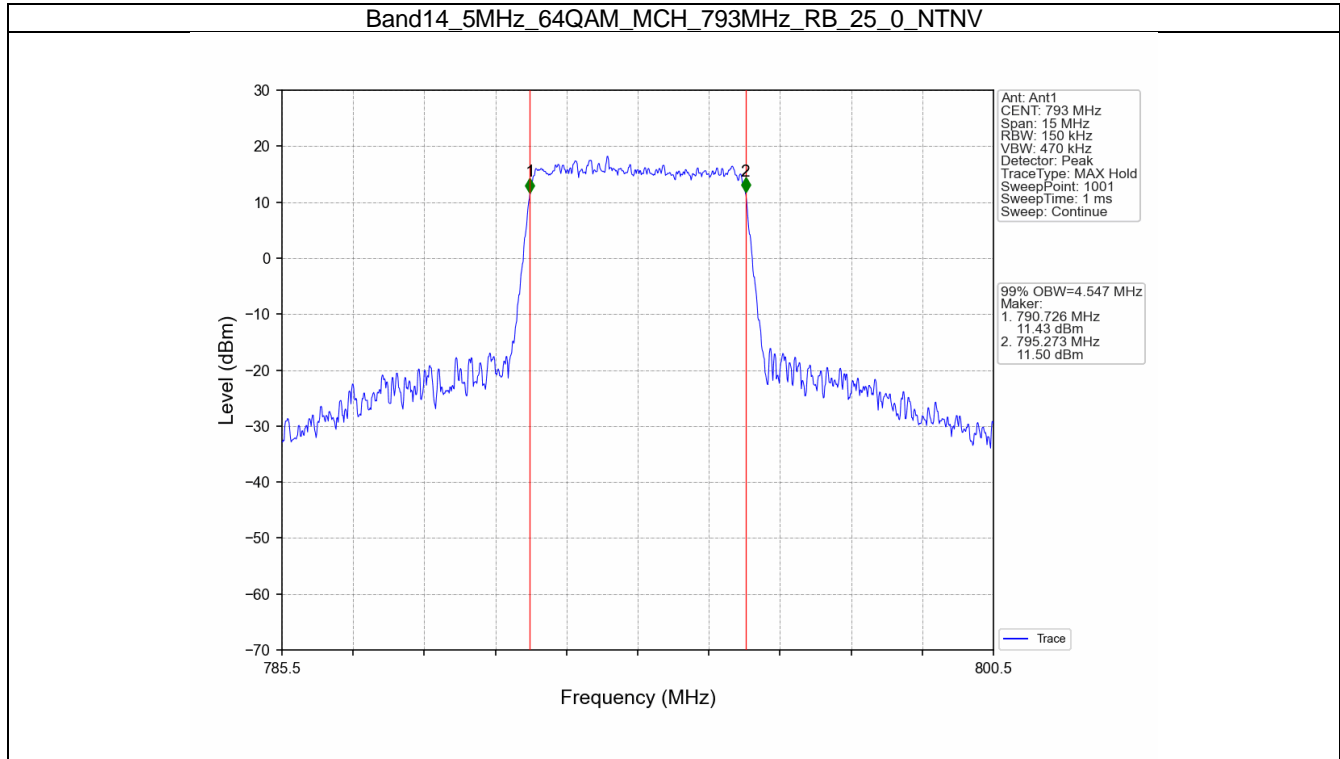
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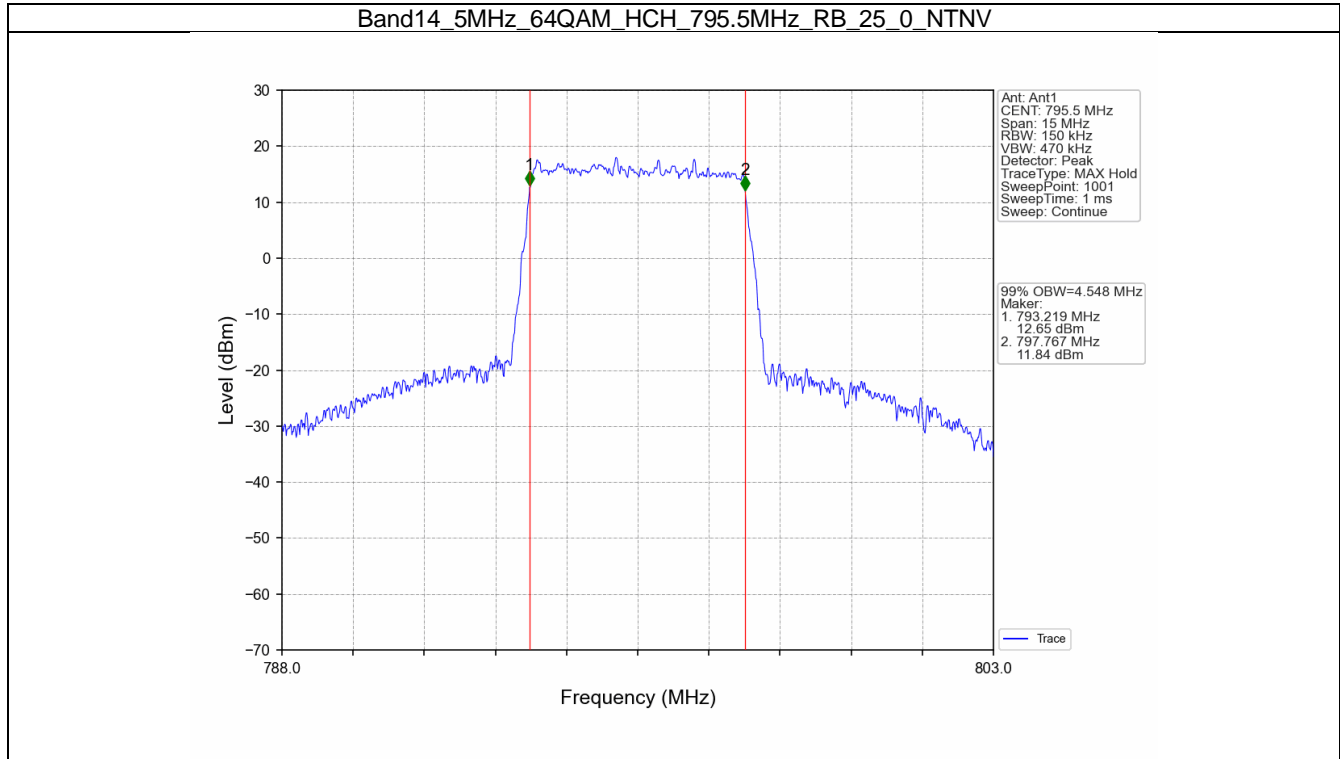


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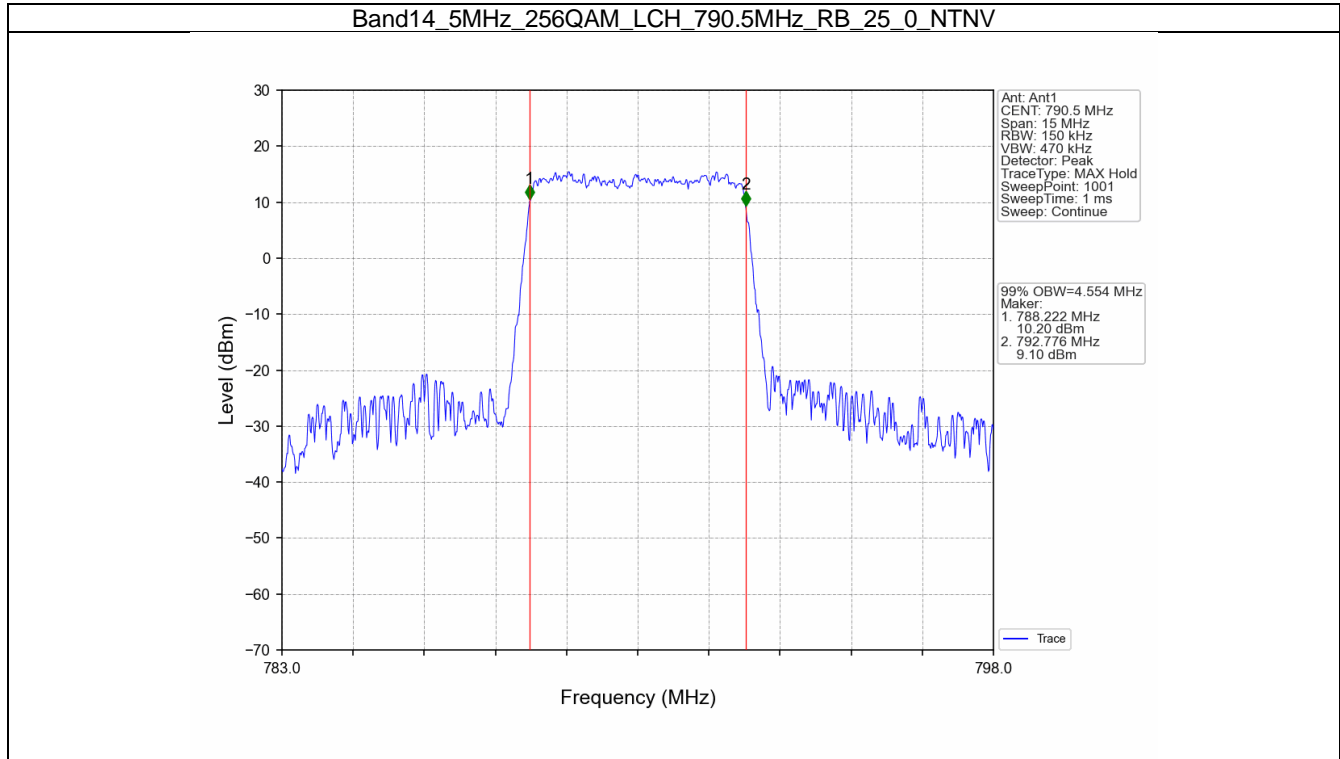
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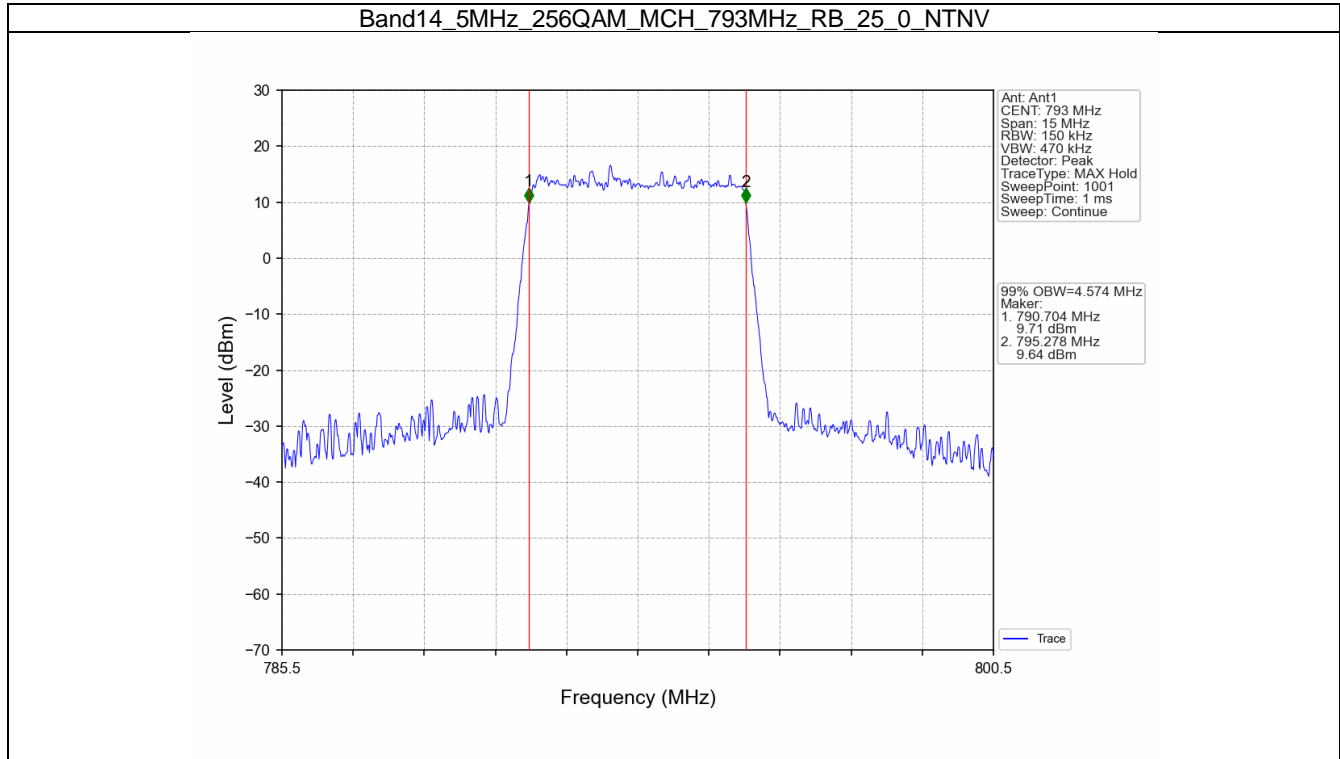
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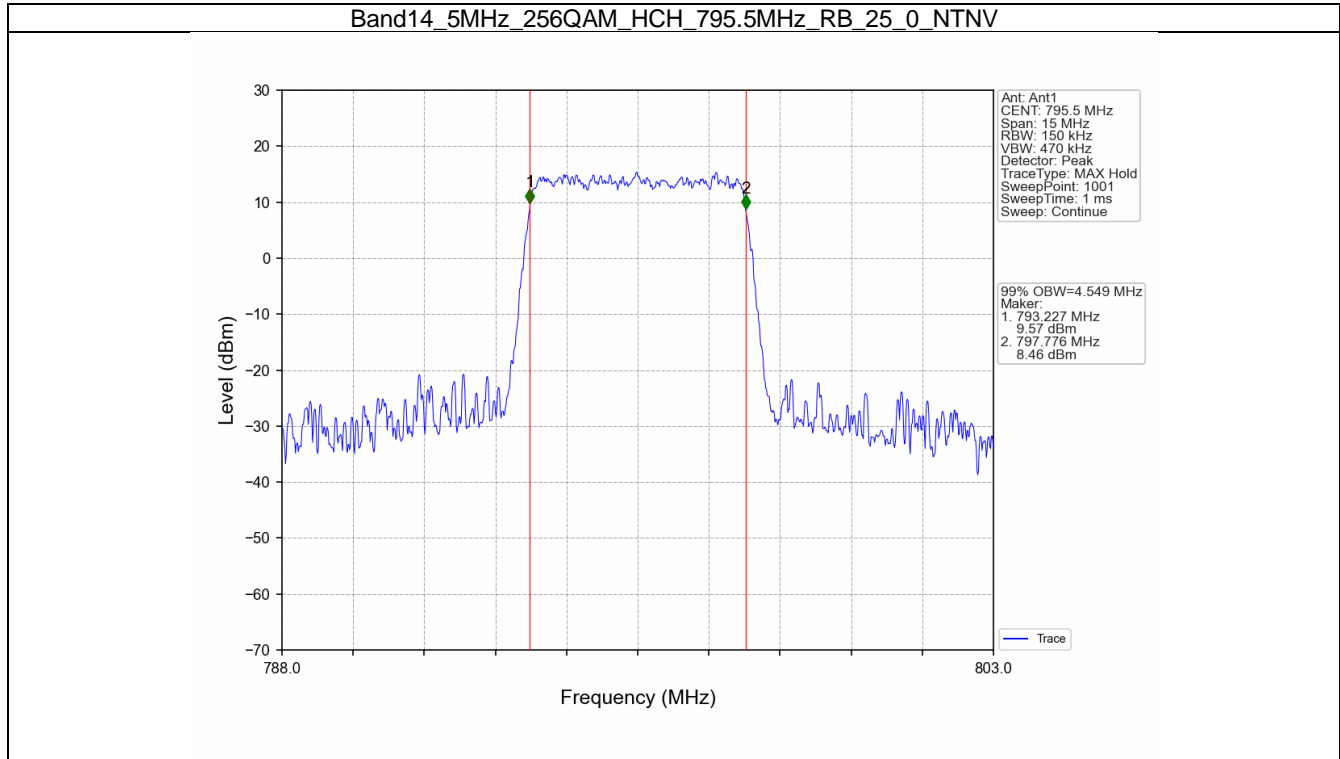
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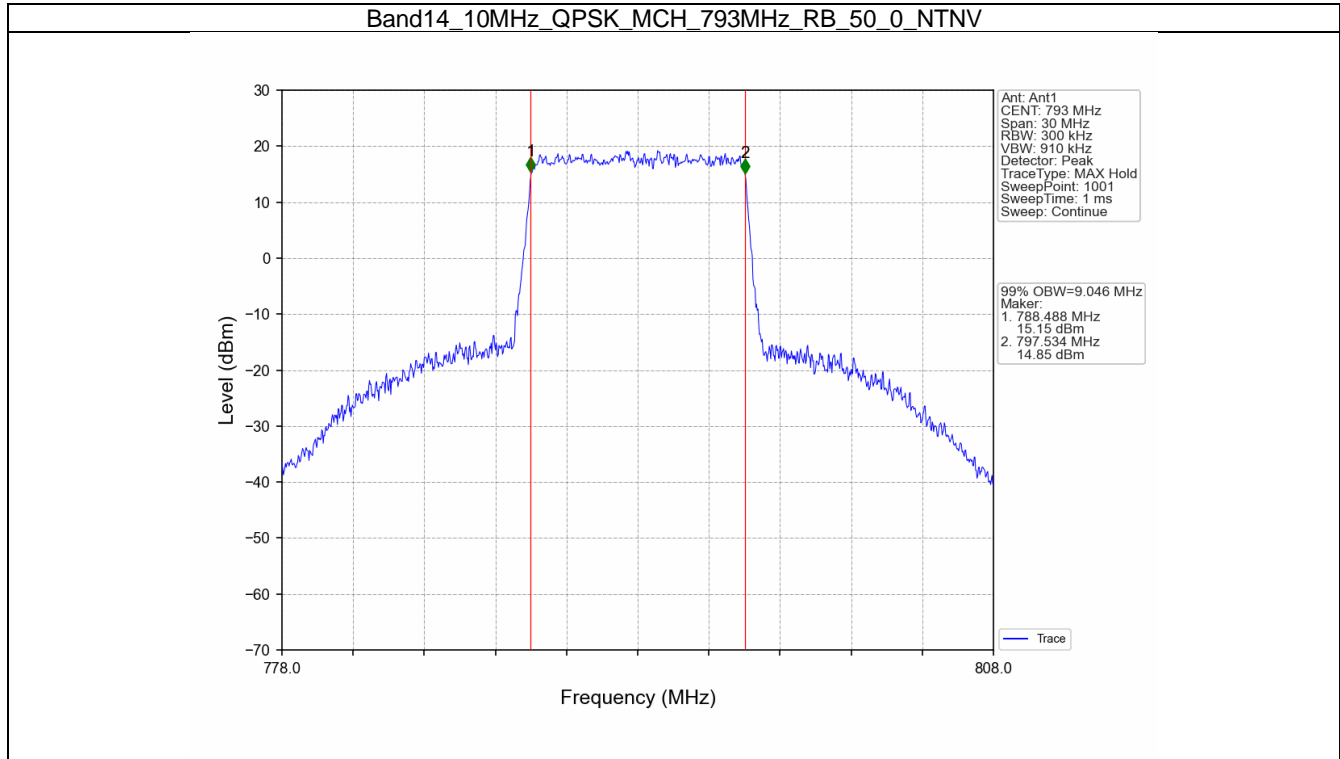
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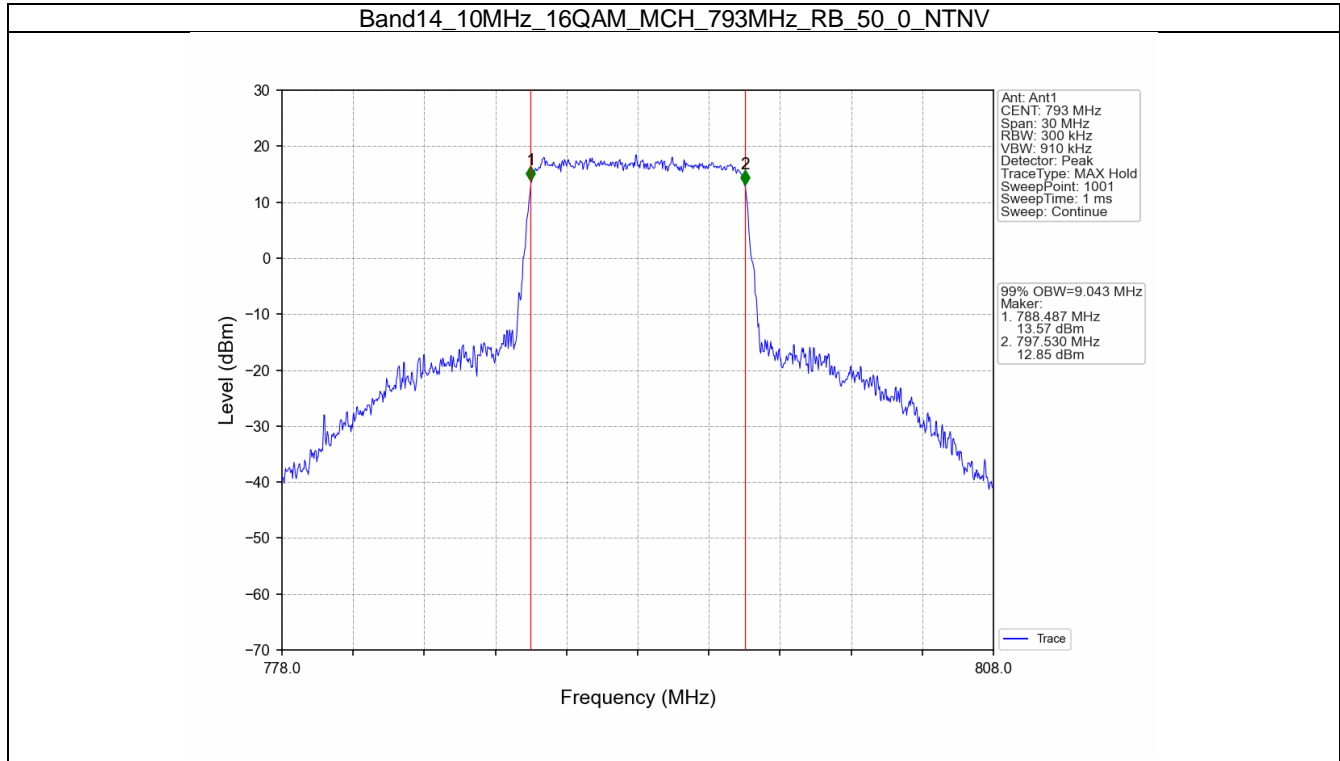
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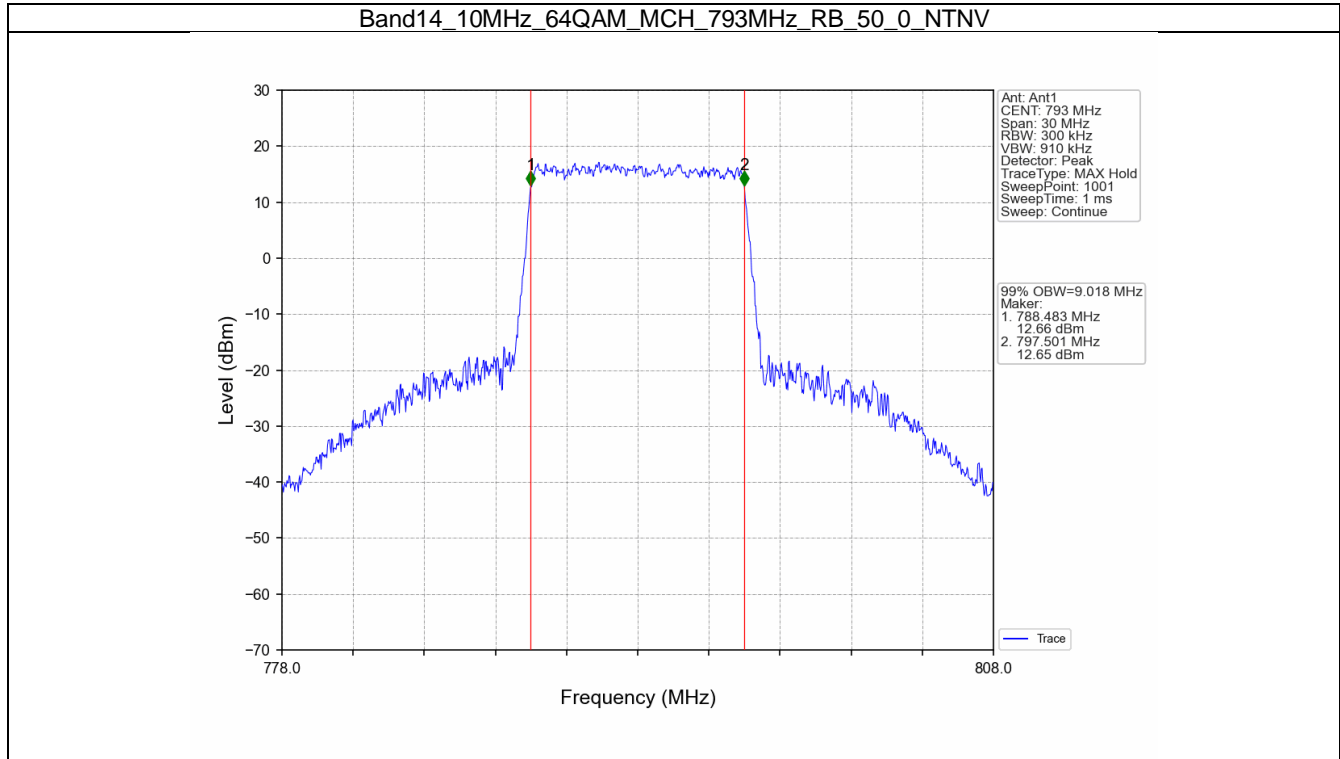
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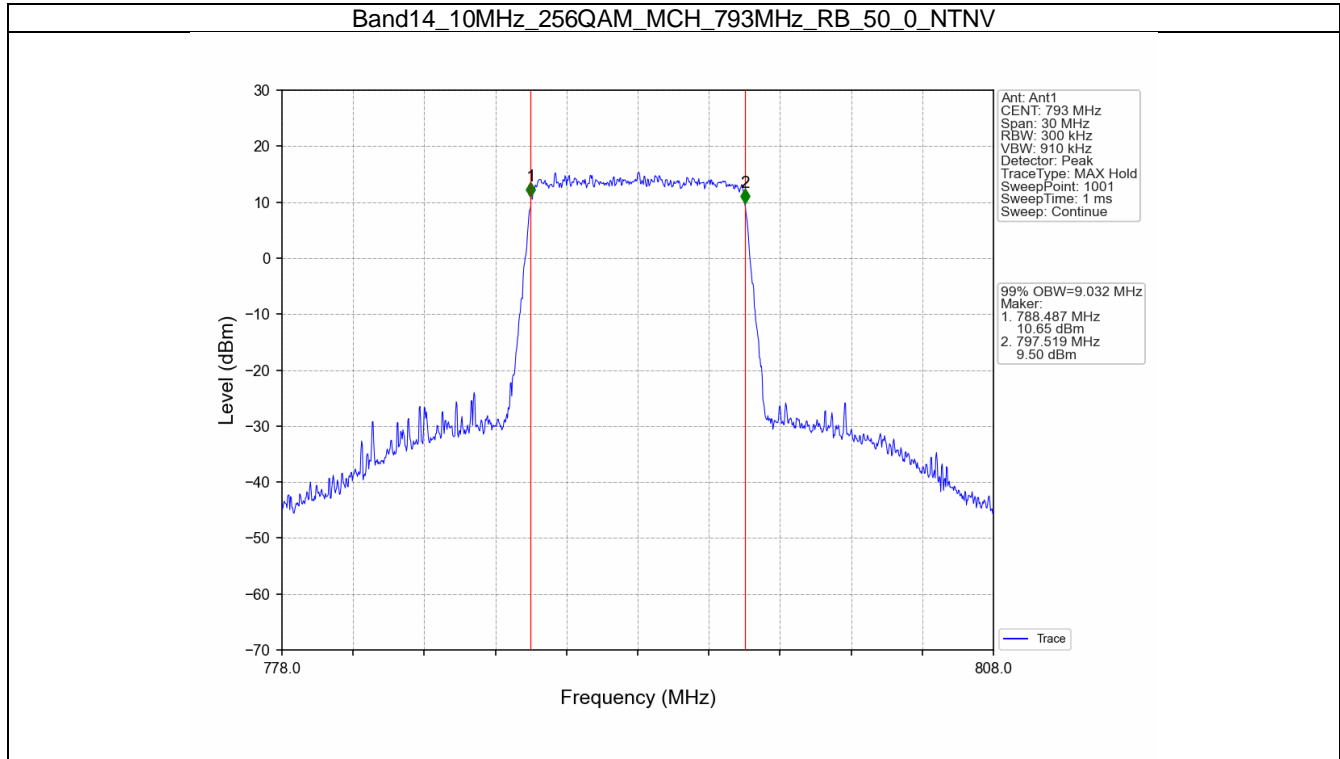
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### 3.2 Band14\_XDB

#### 3.2.1 Test Result

Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	5.080	/	Pass
		793	25	0	5.054	/	Pass
		795.5	25	0	5.072	/	Pass
	16QAM	790.5	25	0	5.076	/	Pass
		793	25	0	5.034	/	Pass
		795.5	25	0	5.075	/	Pass
	64QAM	790.5	25	0	5.084	/	Pass
		793	25	0	5.034	/	Pass
		795.5	25	0	5.048	/	Pass
	256QAM	790.5	25	0	5.085	/	Pass
		793	25	0	5.039	/	Pass
		795.5	25	0	5.065	/	Pass
10	QPSK	793	50	0	9.986	/	Pass
	16QAM	793	50	0	10.041	/	Pass
	64QAM	793	50	0	9.957	/	Pass
	256QAM	793	50	0	9.968	/	Pass

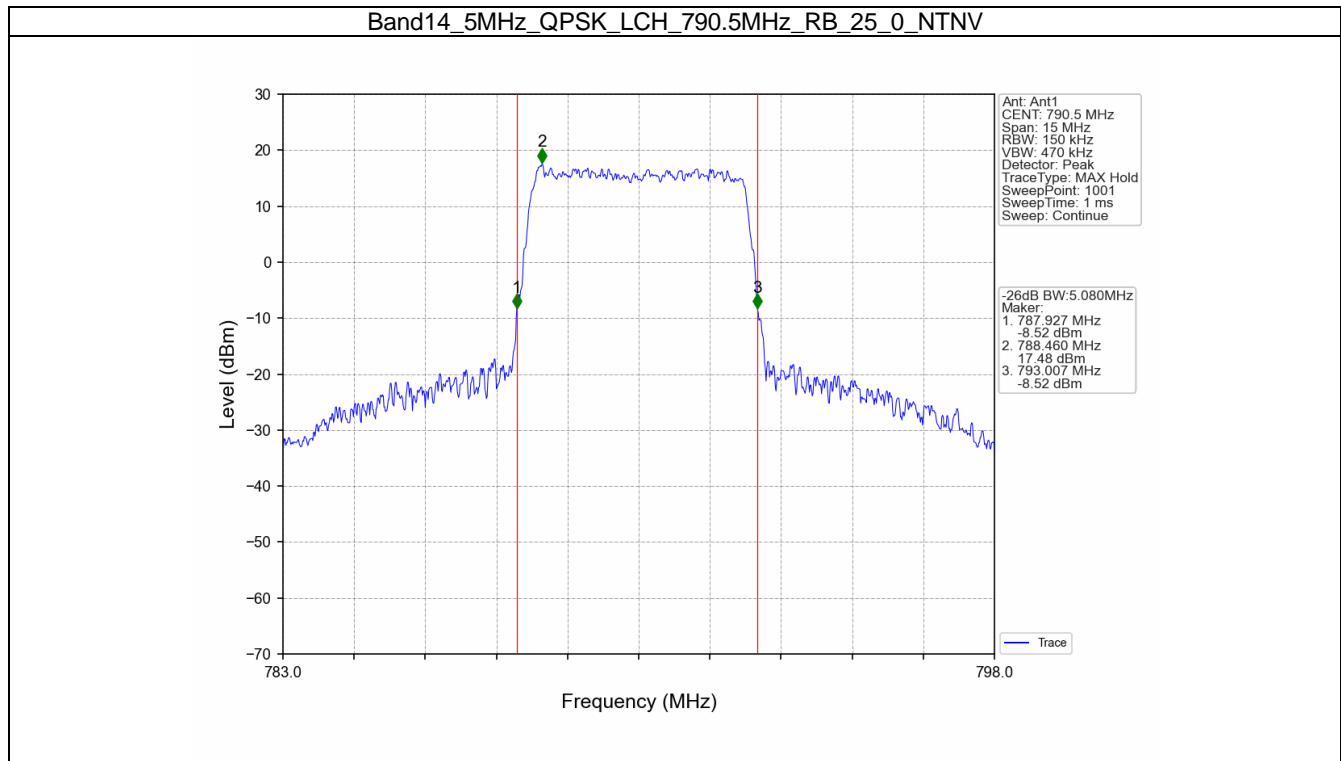


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### 3.2.2 Test Graph



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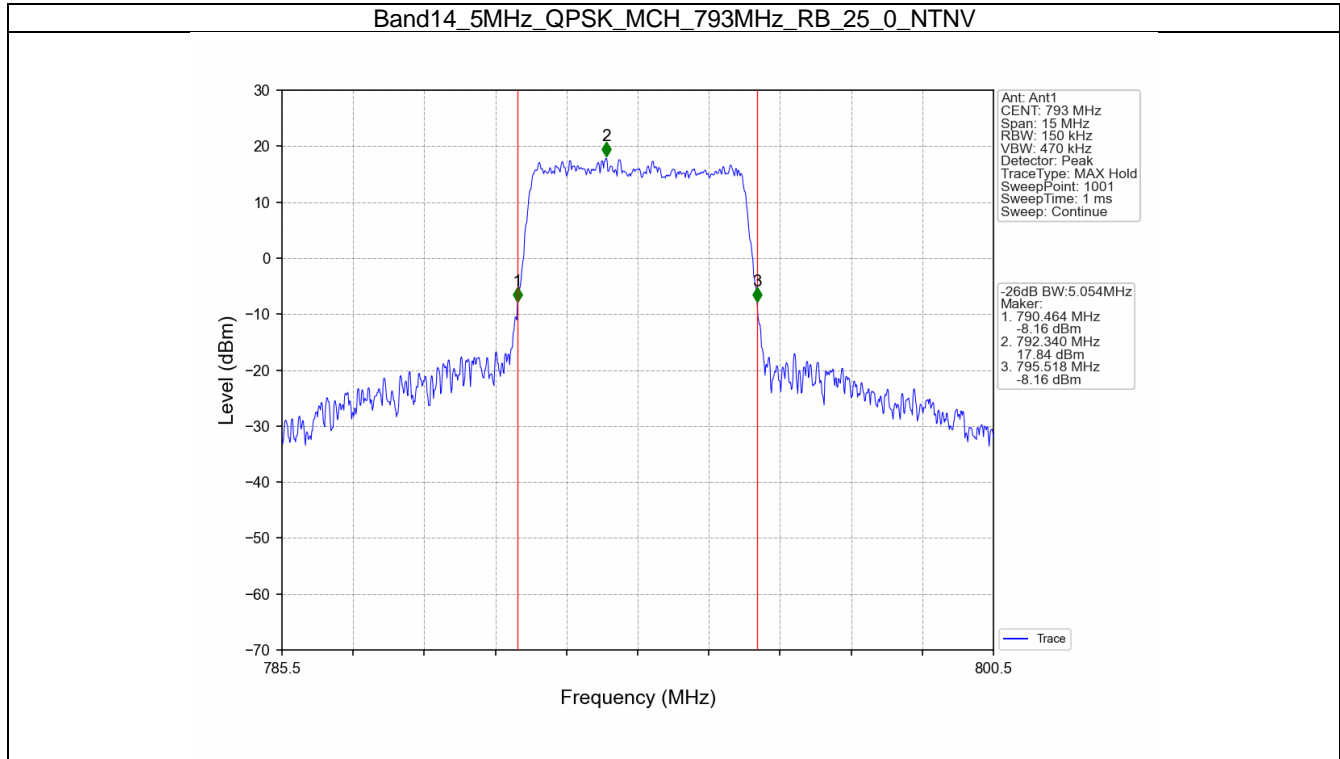
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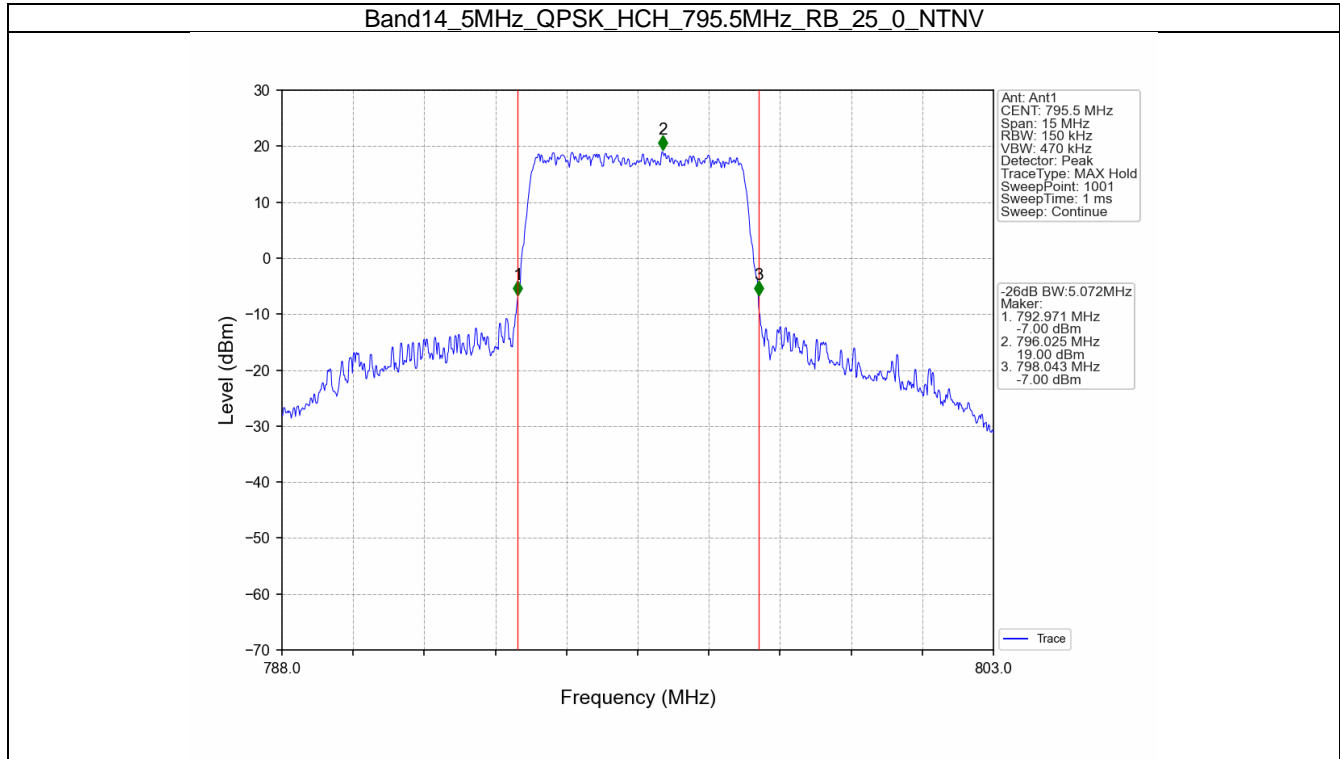


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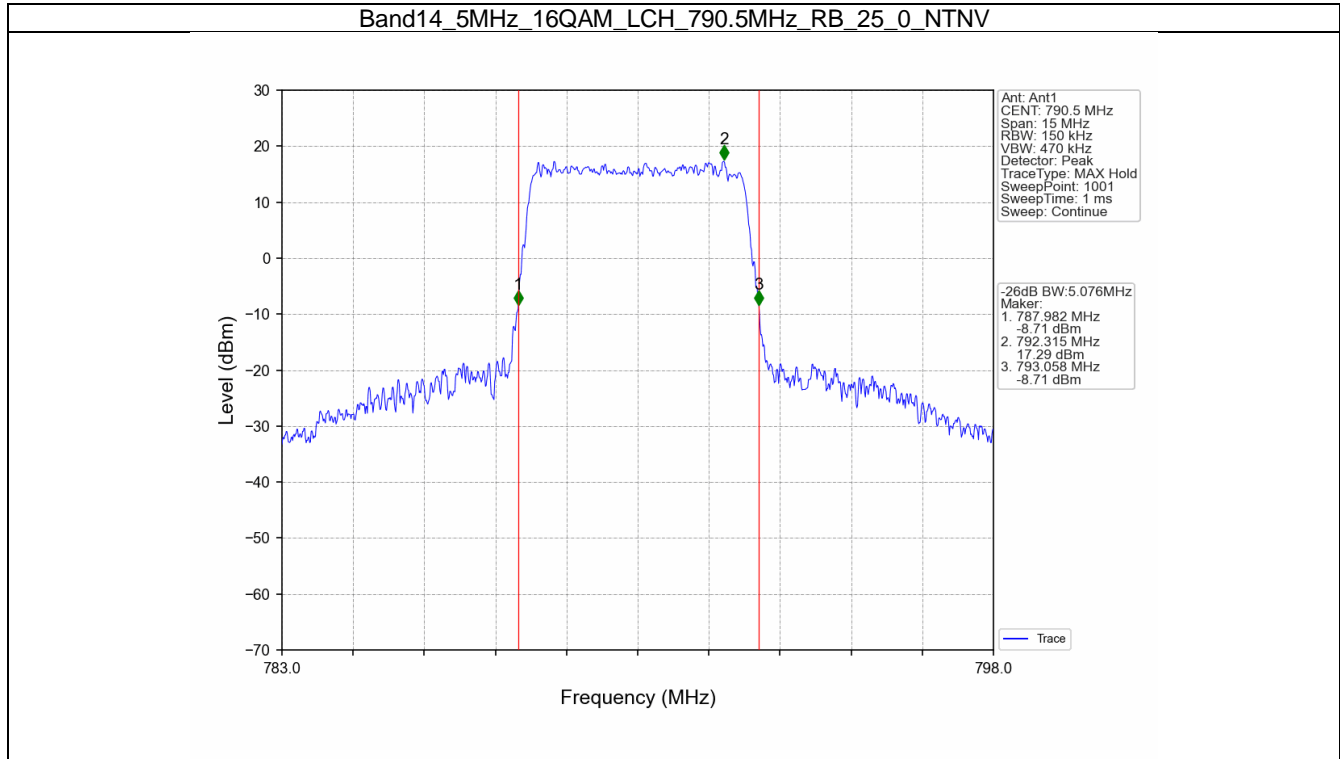
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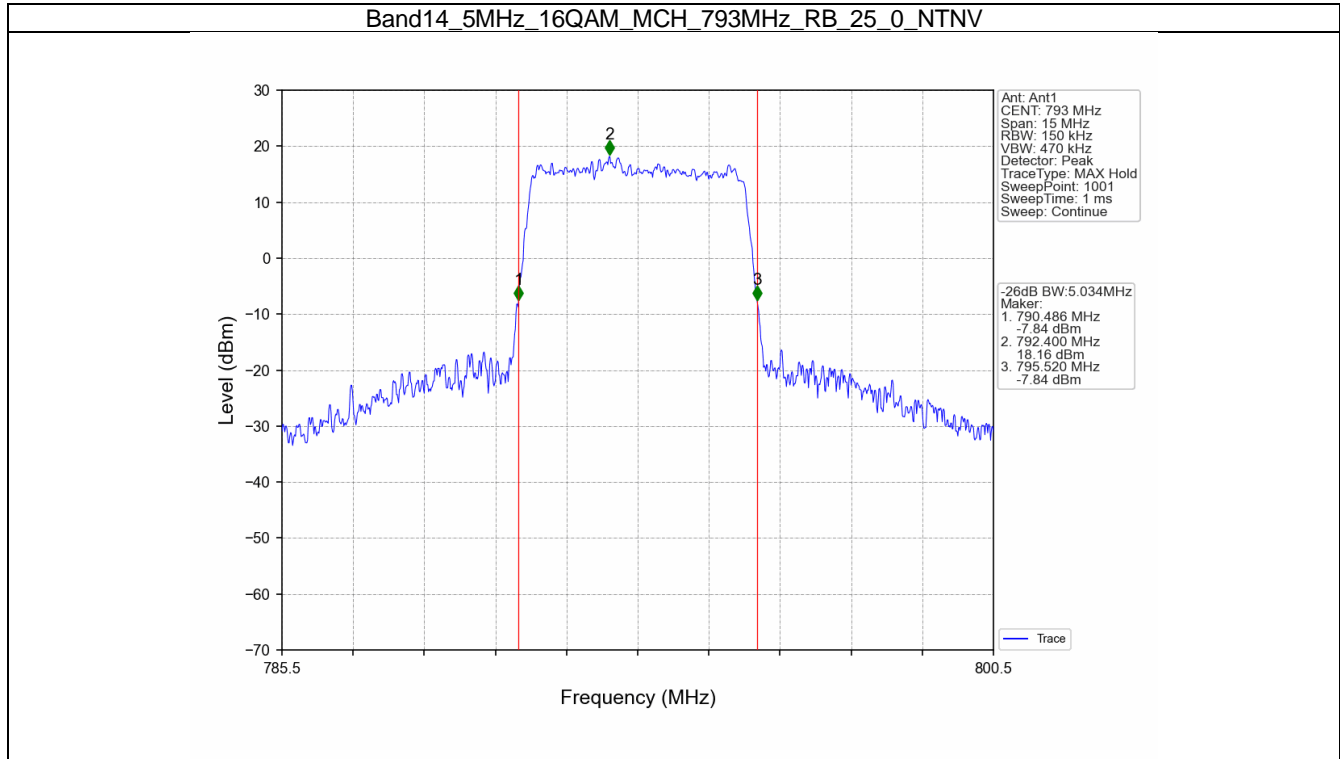
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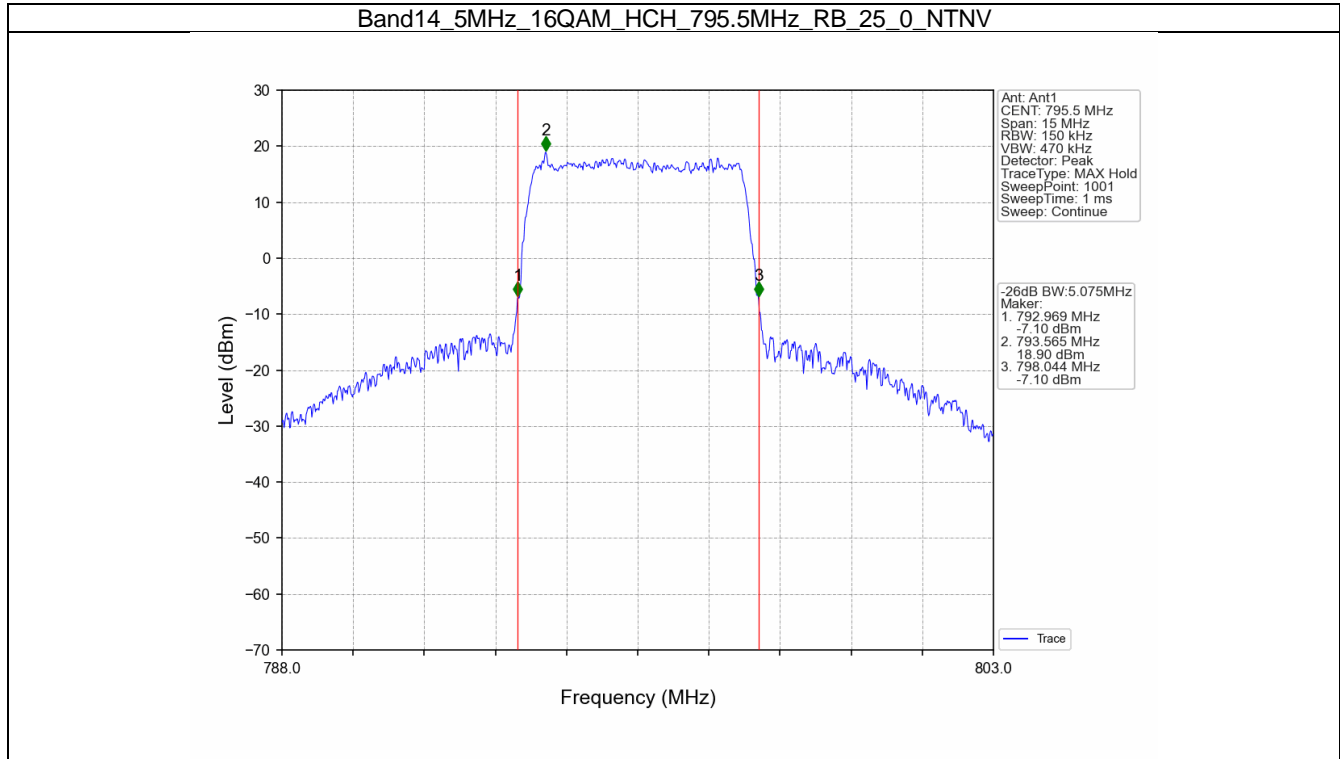
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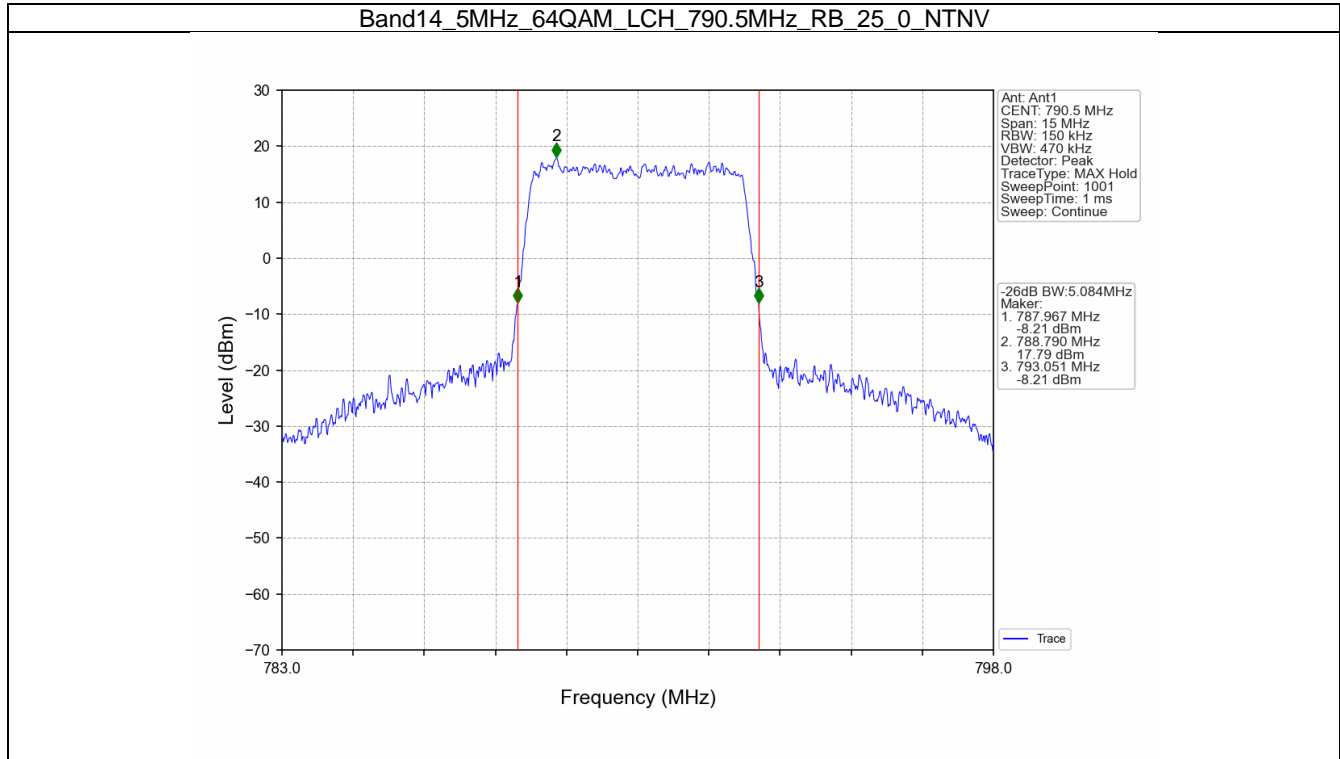
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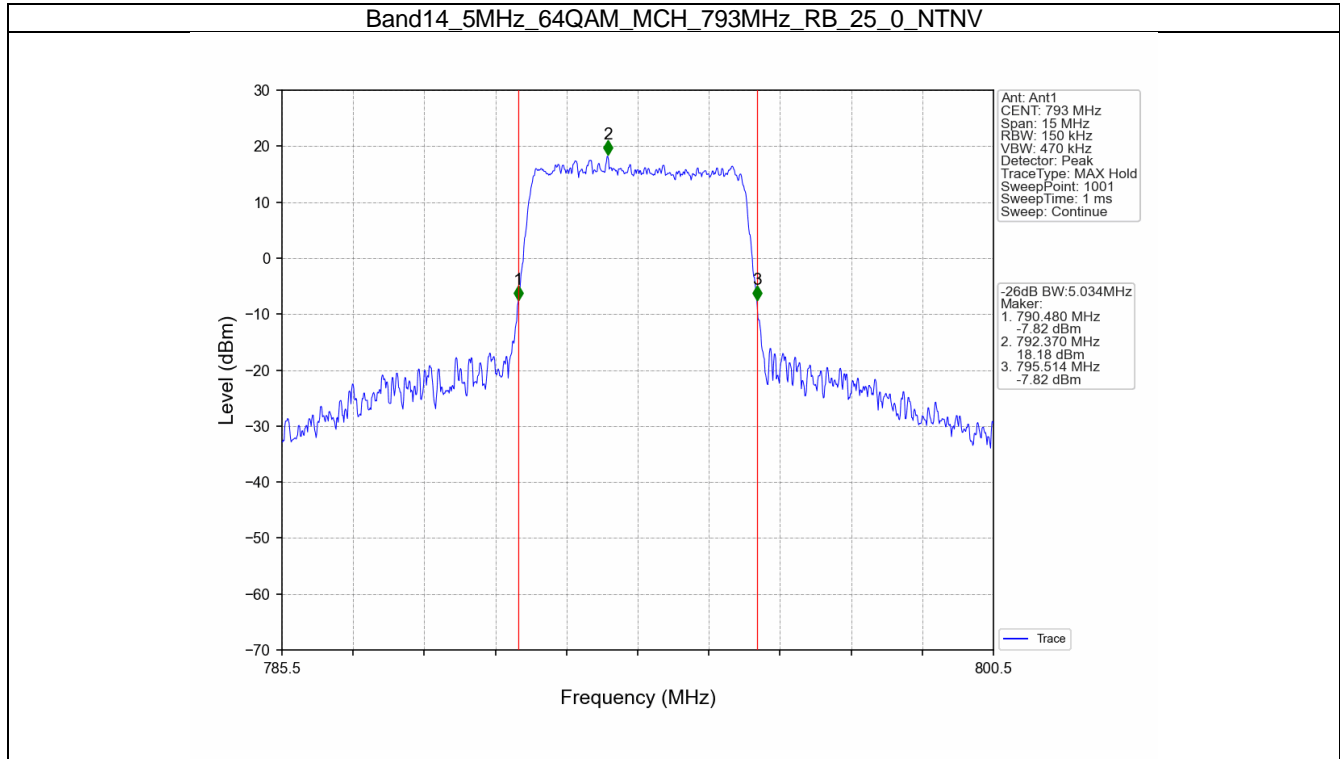
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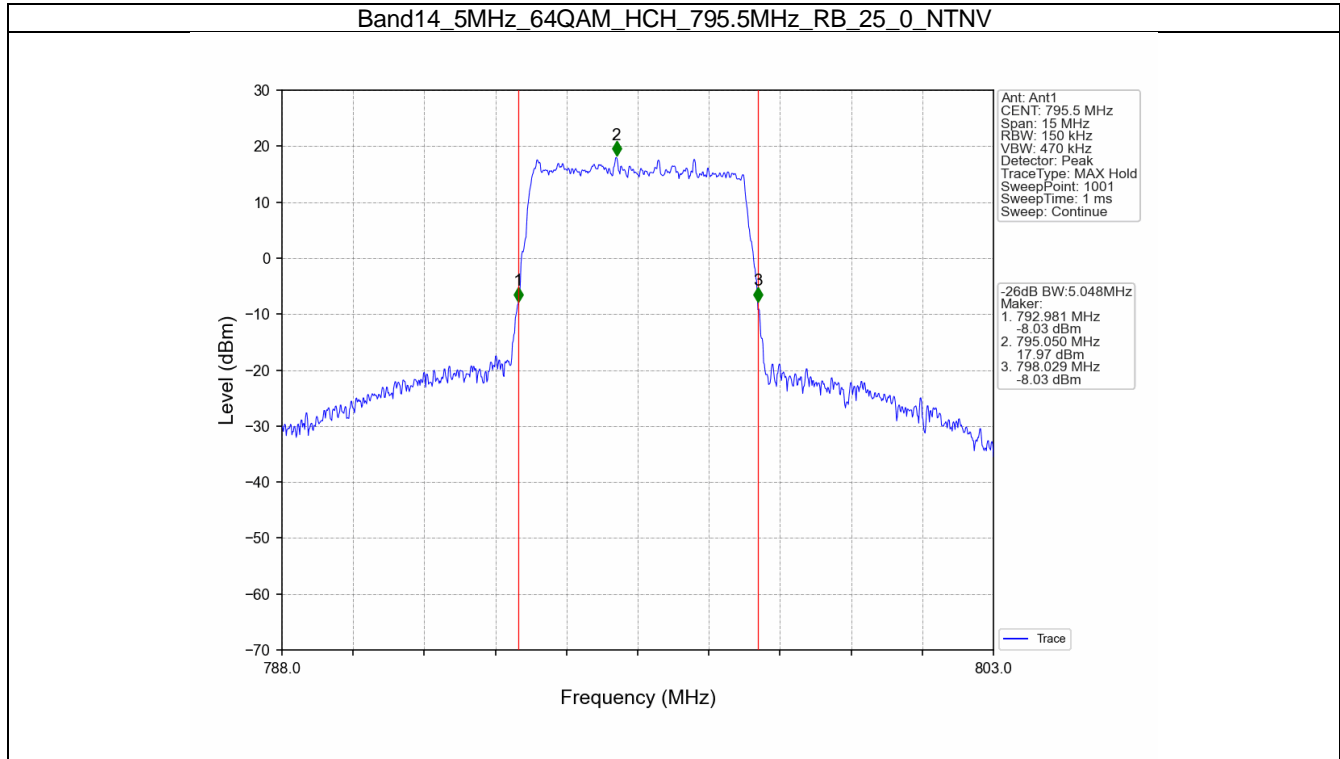
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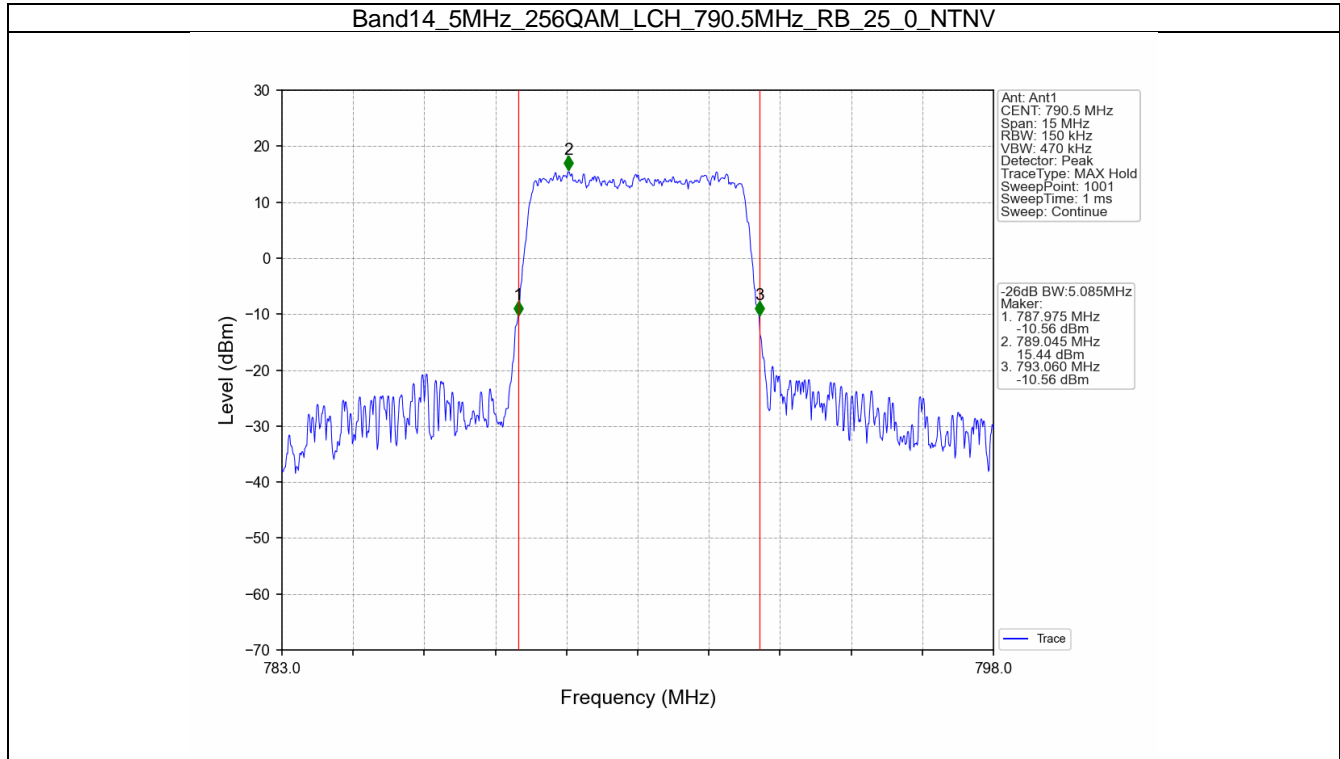
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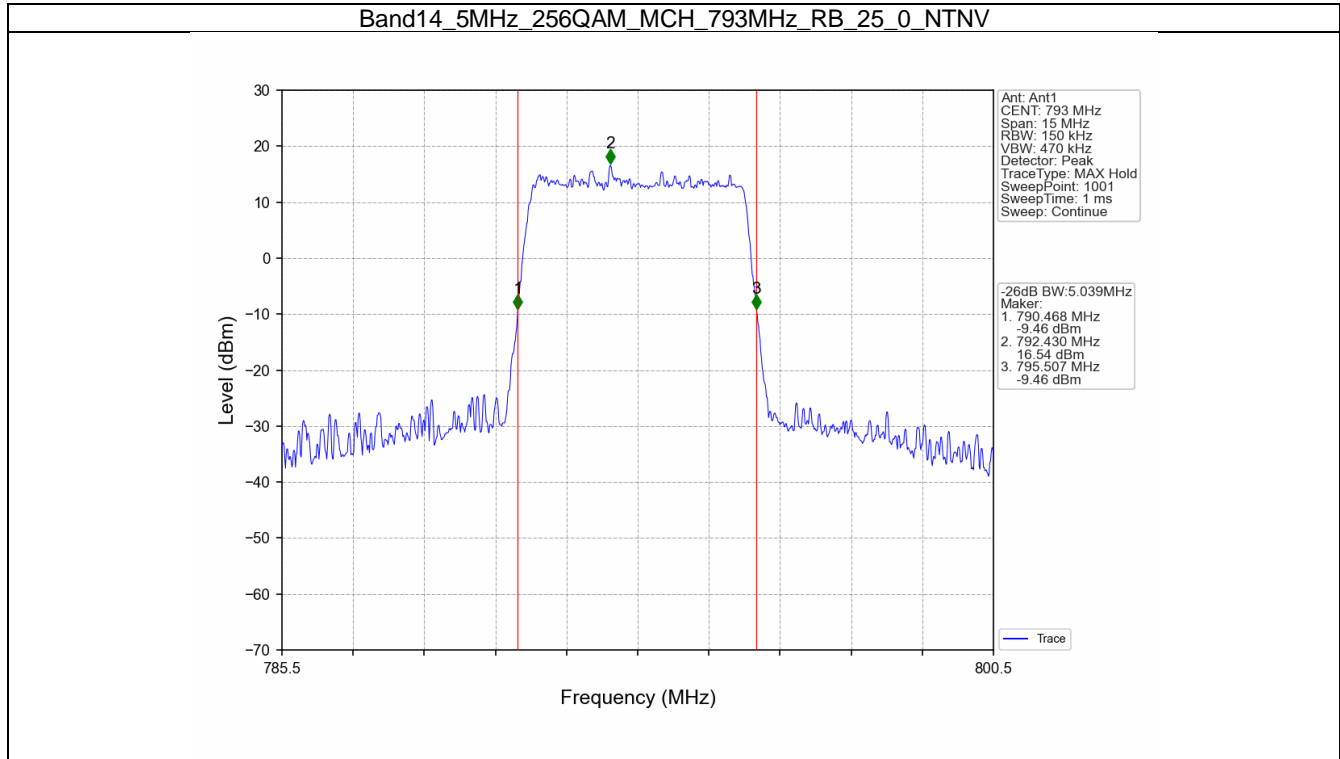


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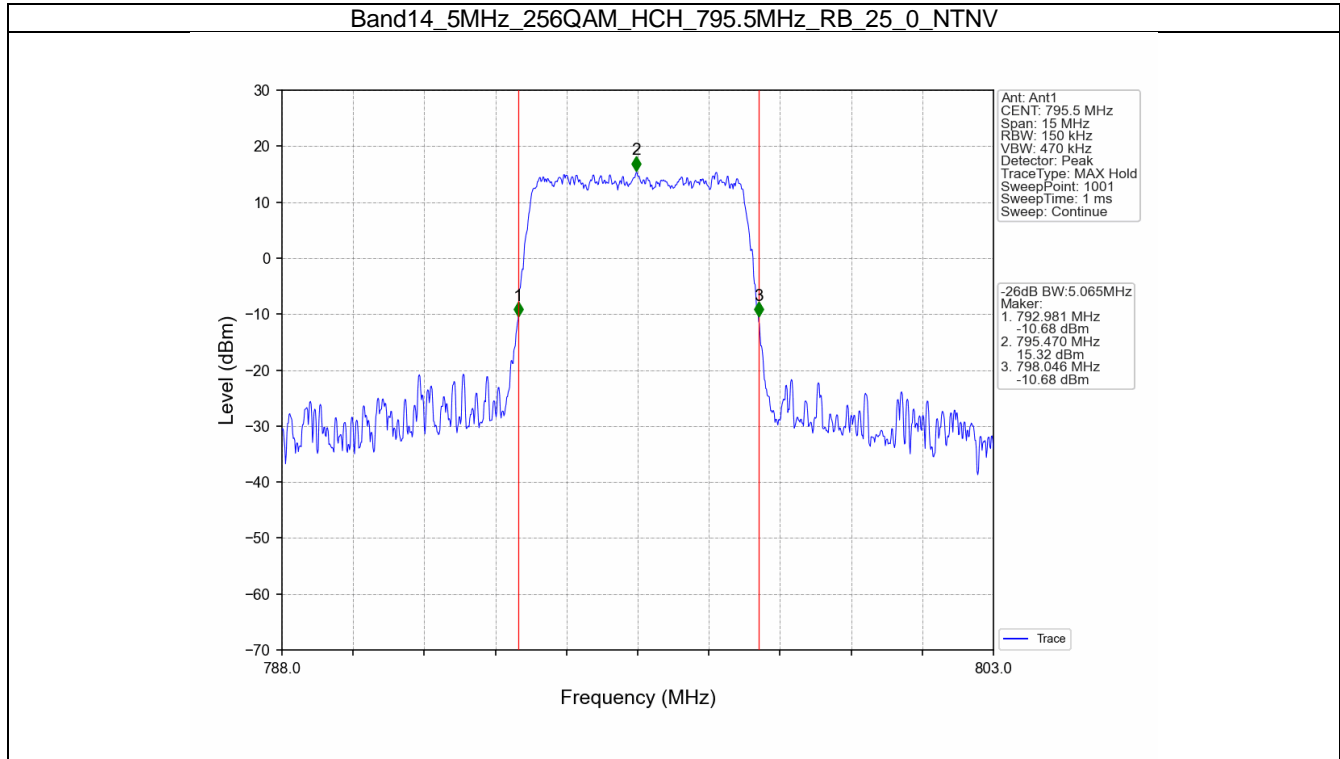
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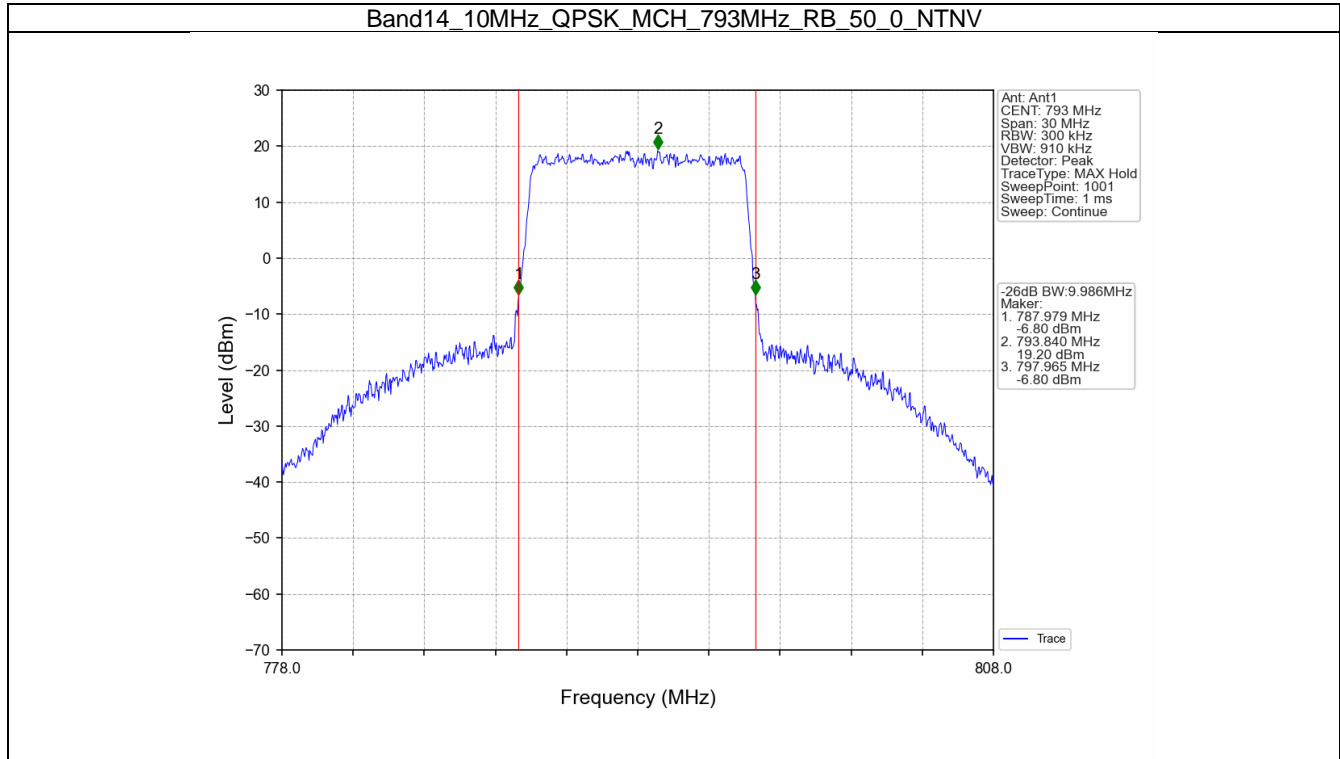
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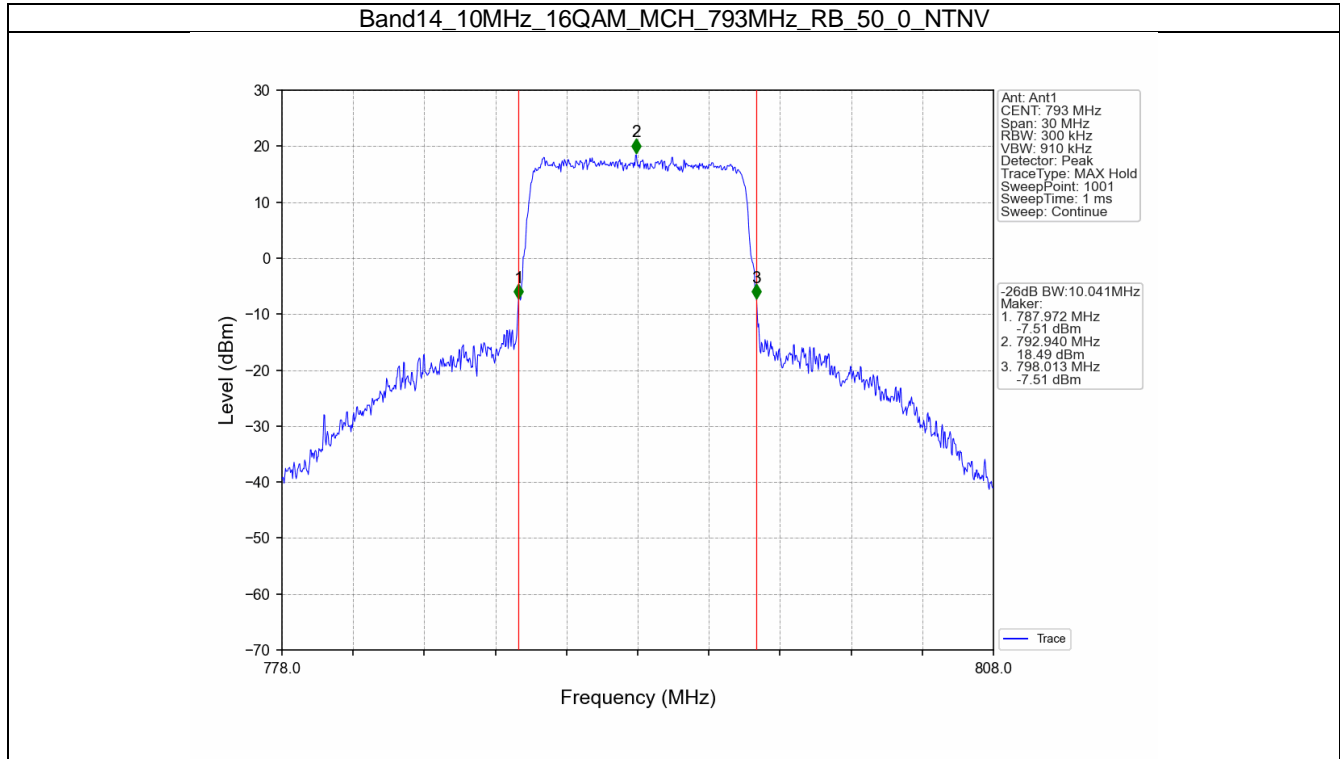
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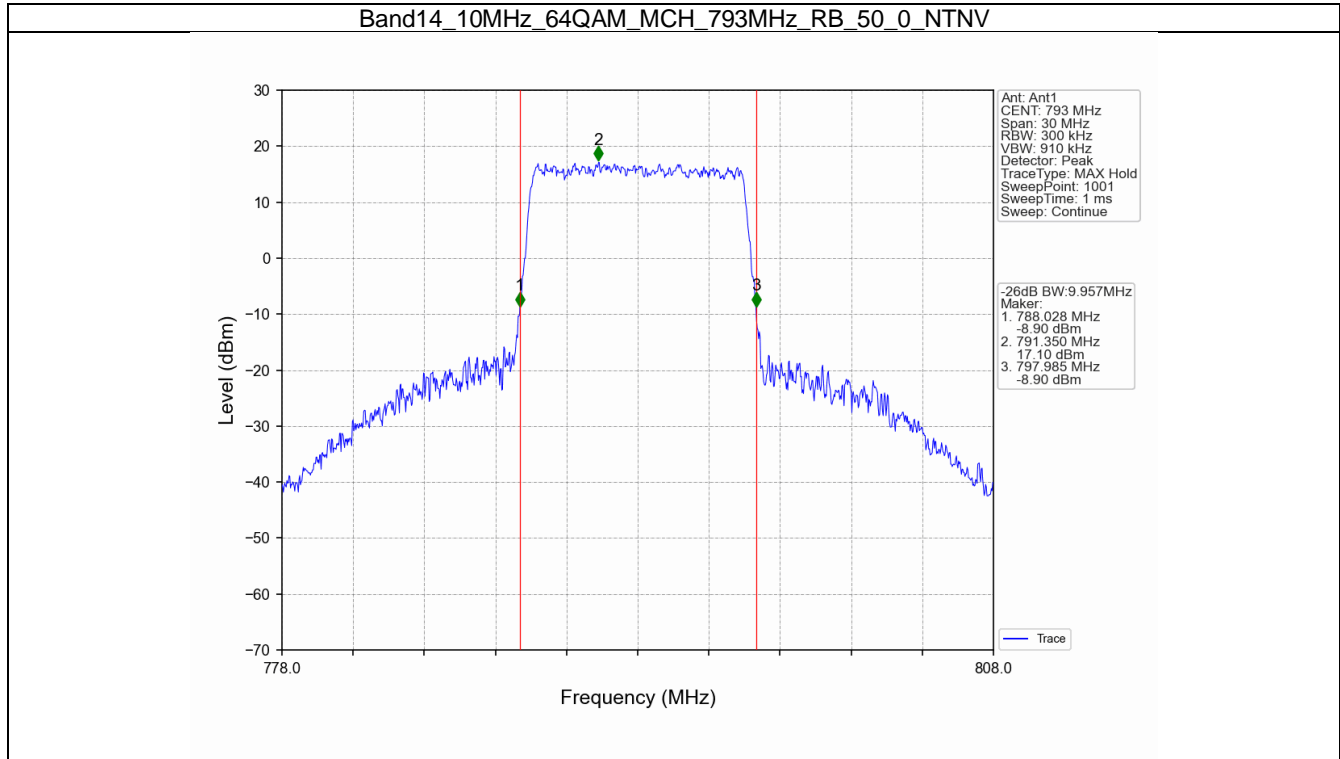
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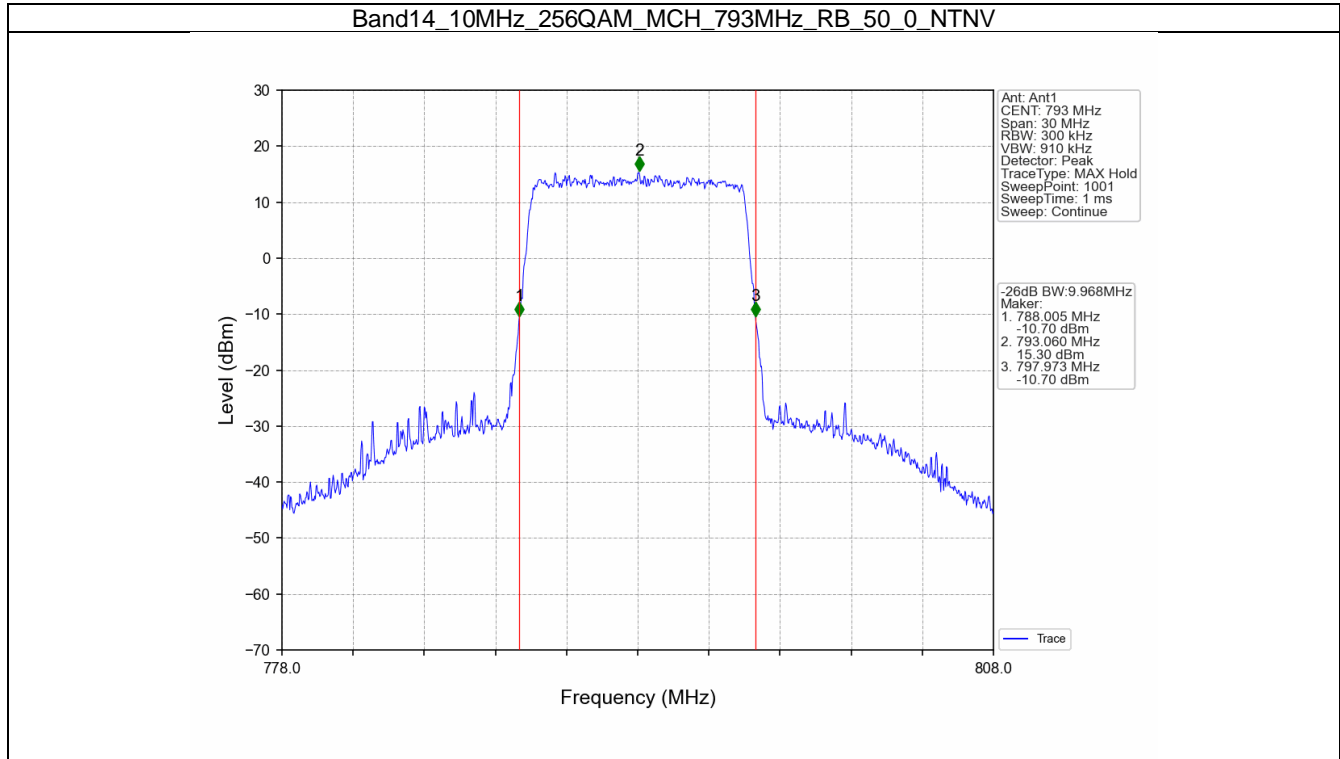
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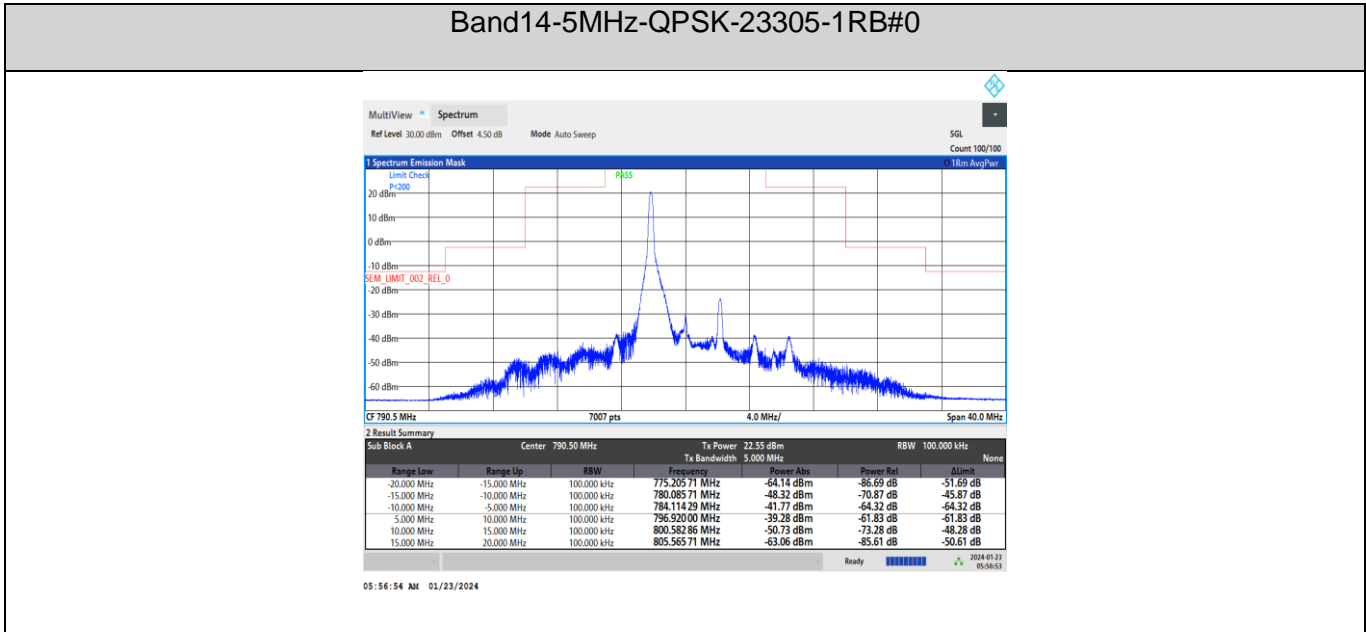
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## 4. Emission Mask

### 4.1 Test Graphs

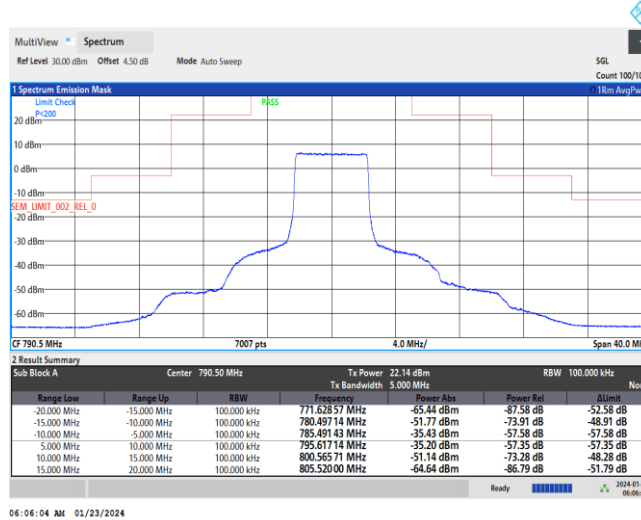


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Band14-5MHz-QPSK-23305-25RB#0



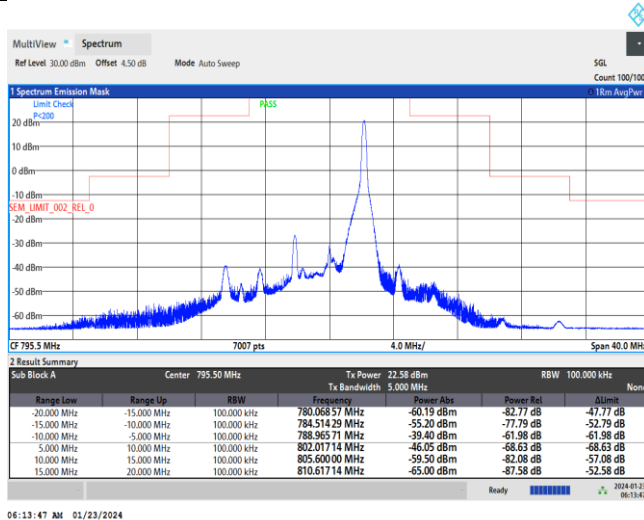
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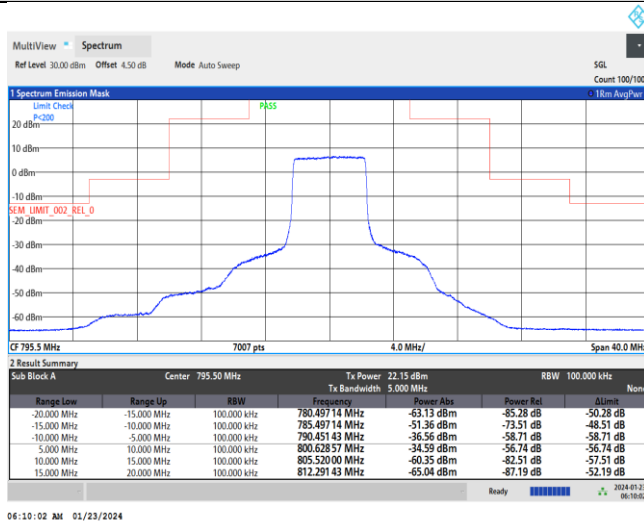
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Band14-5MHz-QPSK-23355-1RB#24



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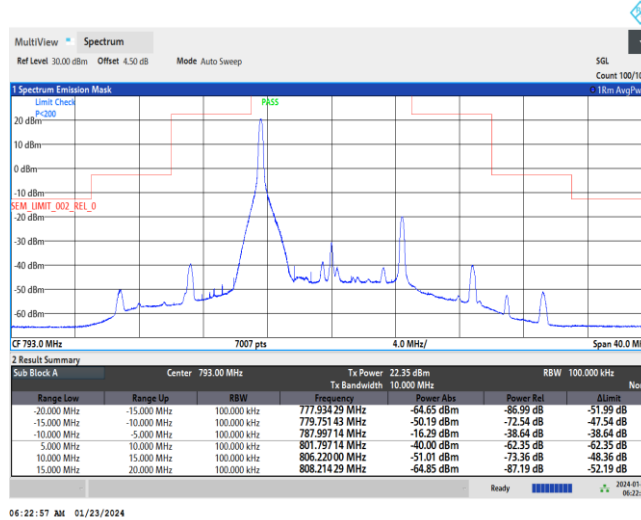


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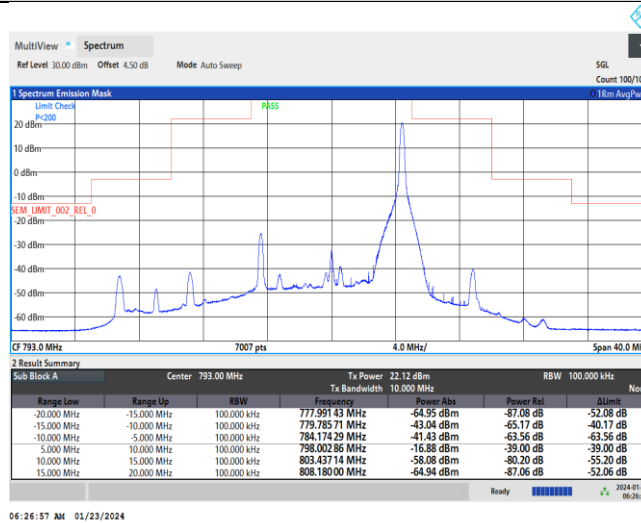
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Band14-10MHz-QPSK-23330-1RB#0



Band14-10MHz-QPSK-23330-1RB#49

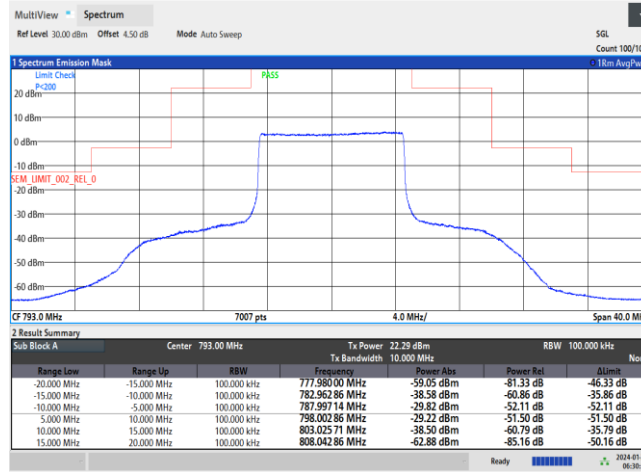


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Band14-10MHz-QPSK-23330-50RB#0



2 Result Summary

Sub Block A			Center	Tx Power	RBW	None
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	Limit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.980 00 MHz	-59.05 dBm	-81.33 dB	-46.33 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.962 86 MHz	-38.58 dBm	-60.86 dB	-35.86 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.997 14 MHz	-29.82 dBm	-52.11 dB	-52.11 dB
-5.000 MHz	10.000 MHz	100.000 kHz	798.022 86 MHz	-29.22 dBm	-51.50 dB	-51.50 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.025 71 MHz	-38.50 dBm	-60.79 dB	-35.79 dB
15.000 MHz	20.000 MHz	100.000 kHz	808.042 86 MHz	-62.88 dBm	-85.16 dB	-50.16 dB

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## 5. Peak-Average Ratio

### 5.1 B14\_5MHz

#### 5.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	25	0	6.34	<=13	Pass
	793	25	0	6.28	<=13	Pass
	795.5	25	0	5.10	<=13	Pass
16QAM	790.5	25	0	6.33	<=13	Pass
	793	25	0	6.27	<=13	Pass
	795.5	25	0	5.83	<=13	Pass
64QAM	790.5	25	0	6.33	<=13	Pass
	793	25	0	6.27	<=13	Pass
	795.5	25	0	6.29	<=13	Pass
256QAM	790.5	25	0	6.77	<=13	Pass
	793	25	0	6.74	<=13	Pass
	795.5	25	0	6.75	<=13	Pass



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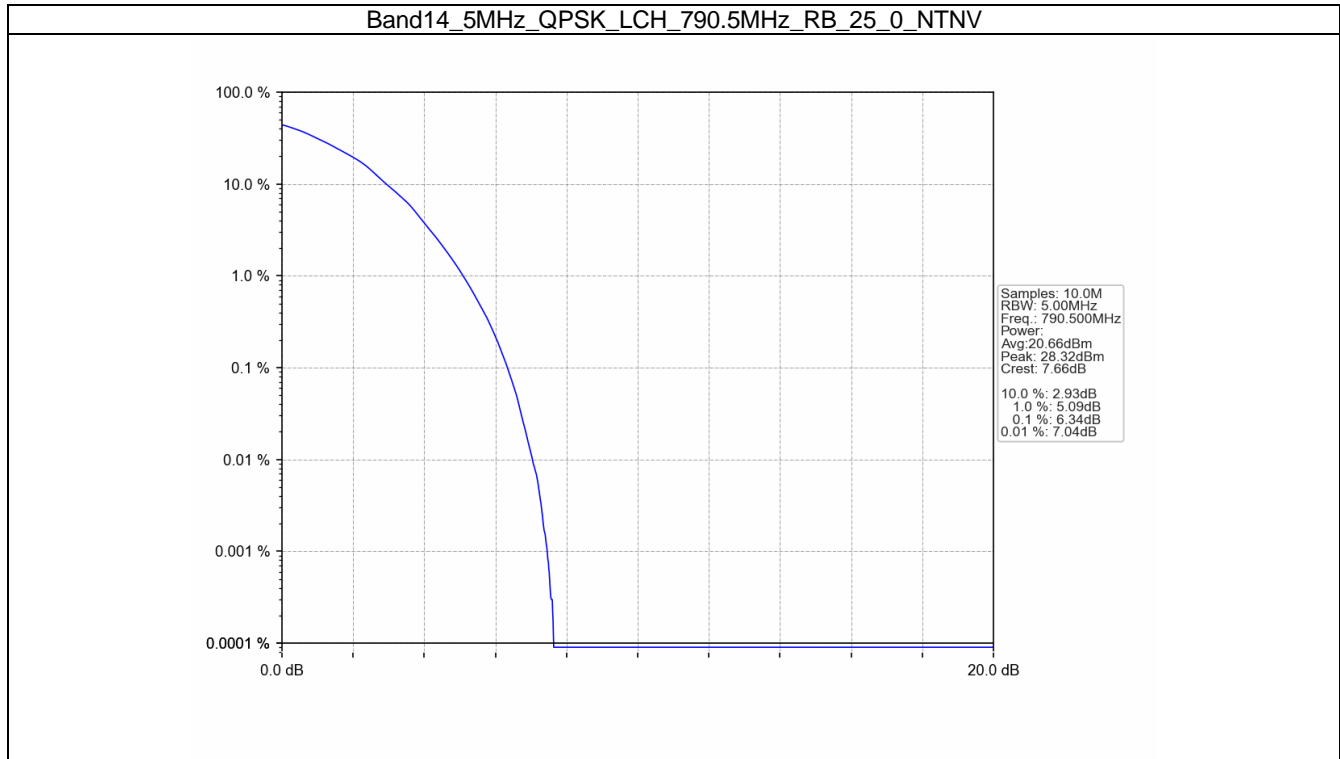
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### 5.1.2 Test Graph



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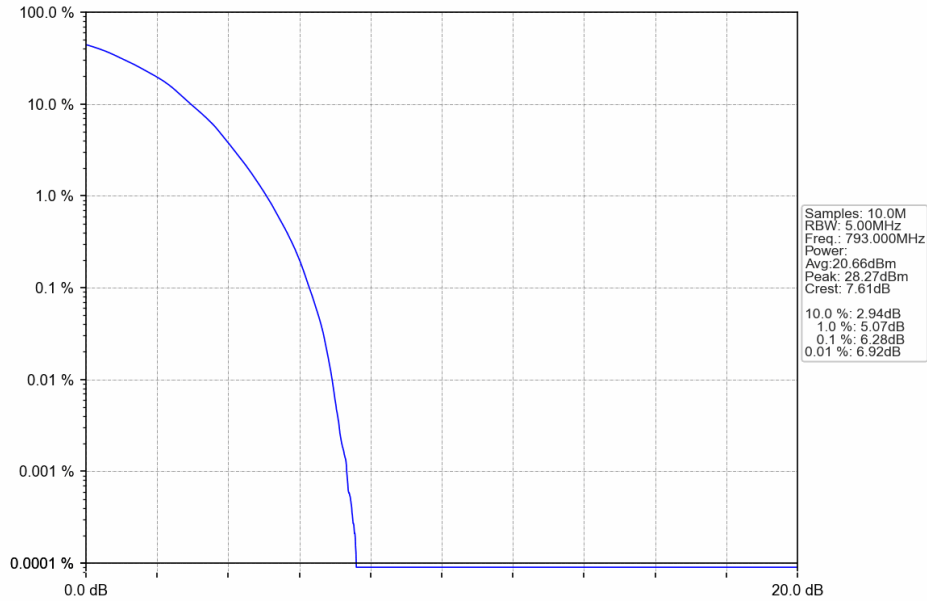


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Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_25\_0\_NTNV



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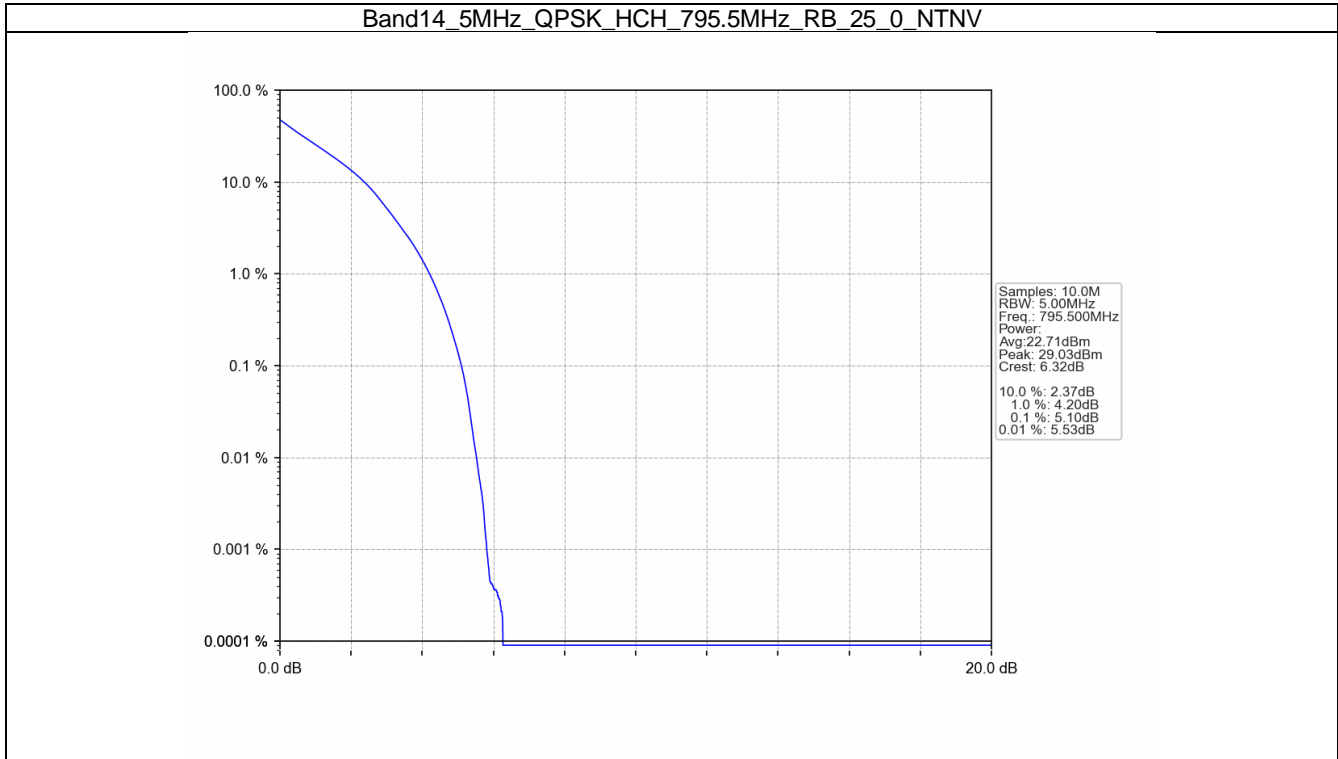


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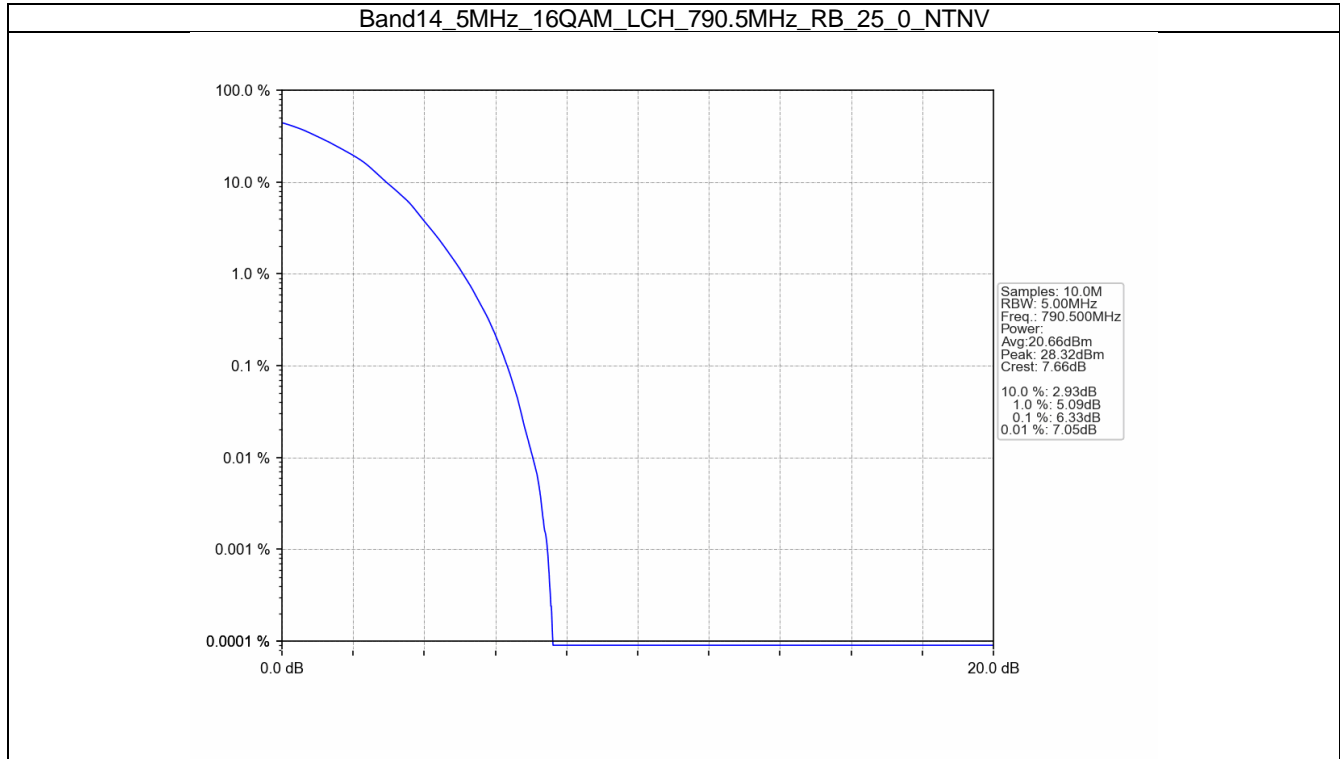
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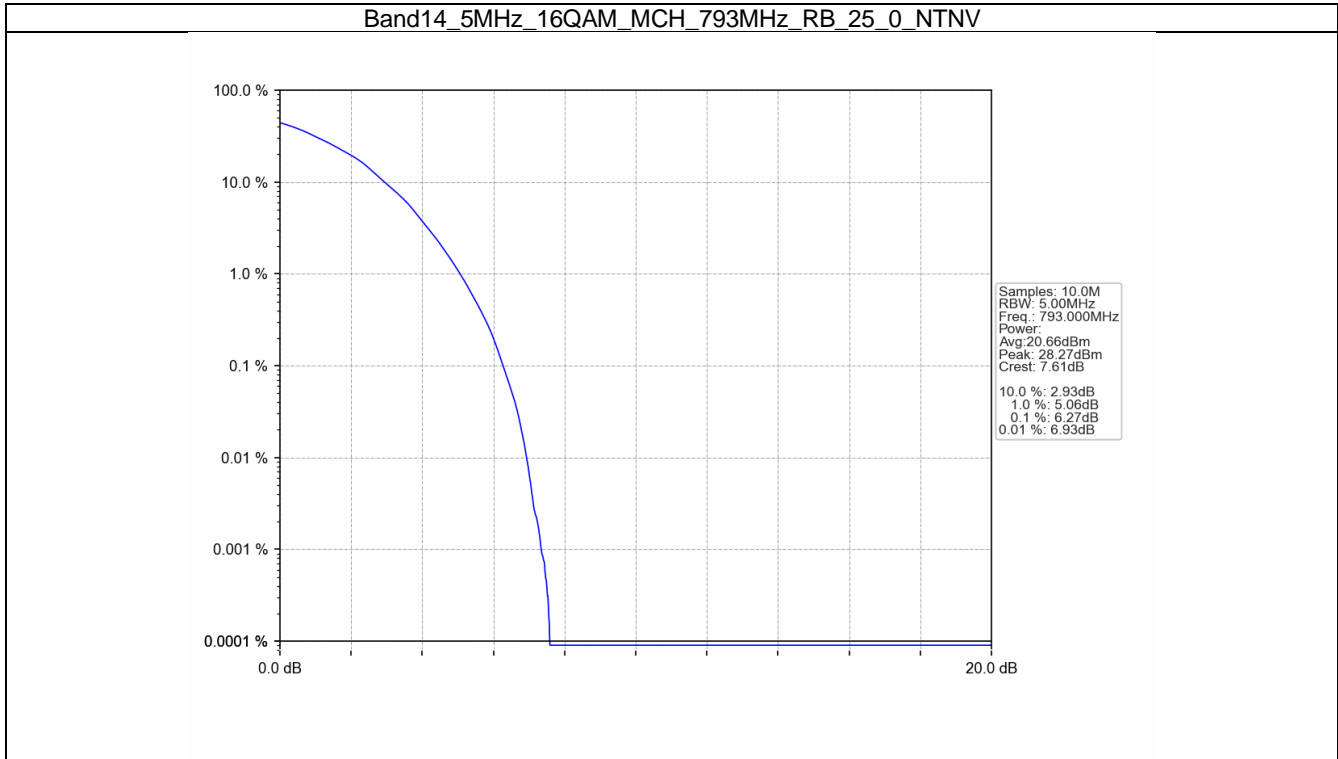


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Band14\_5MHz\_16QAM\_MCH\_793MHz\_RB\_25\_0\_NTNV



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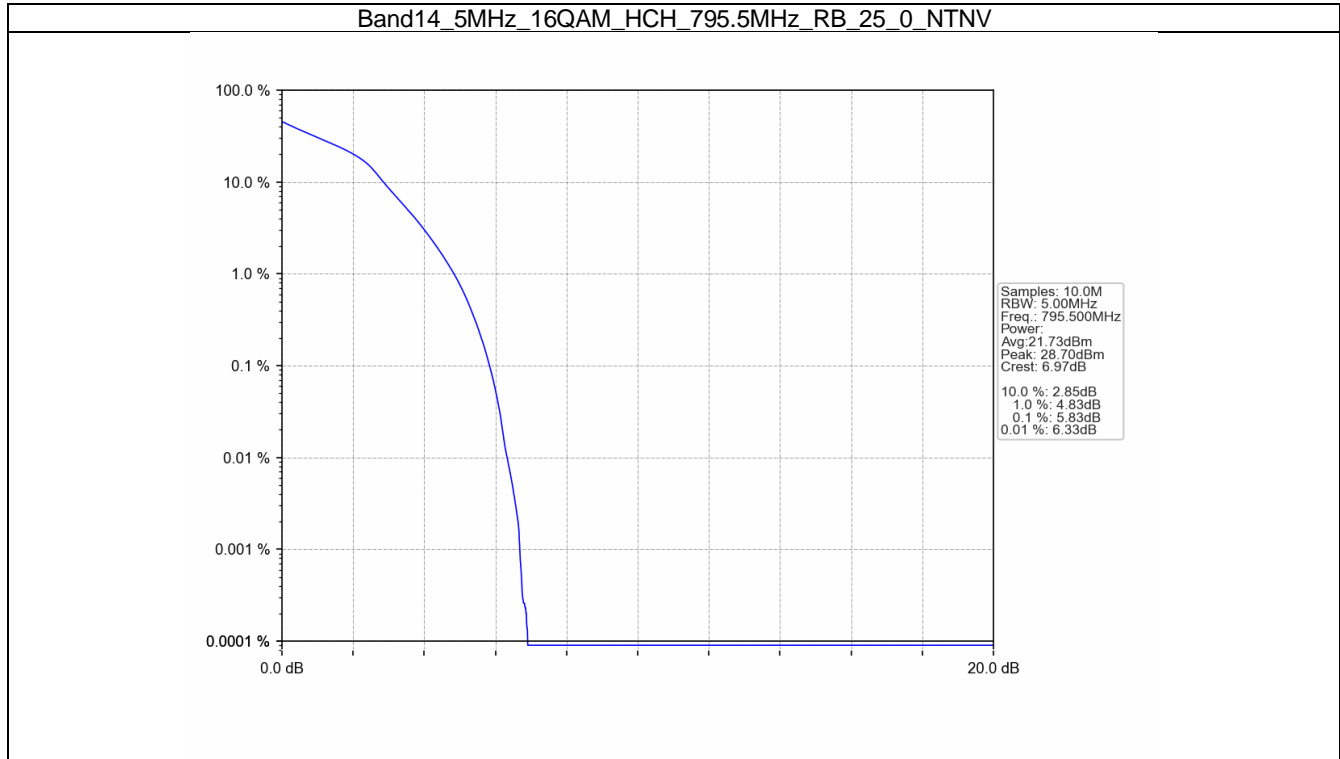
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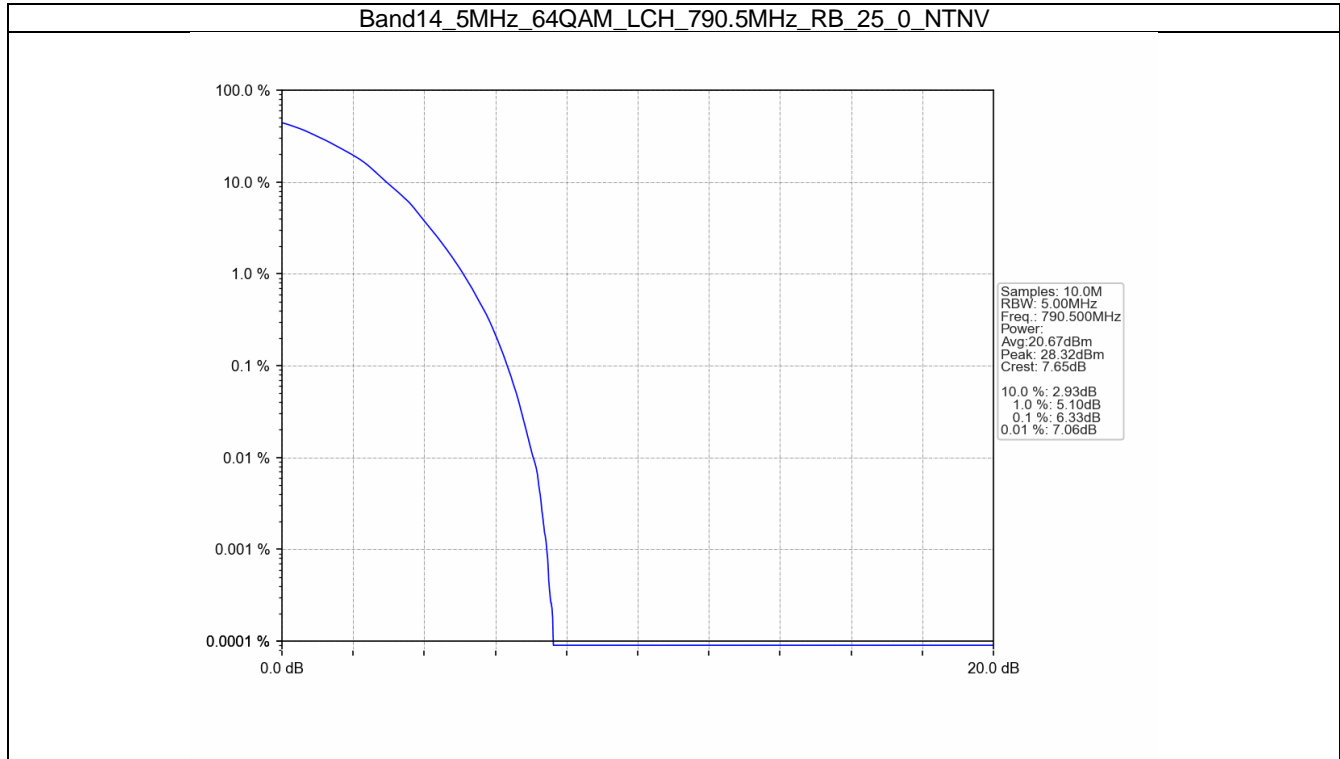
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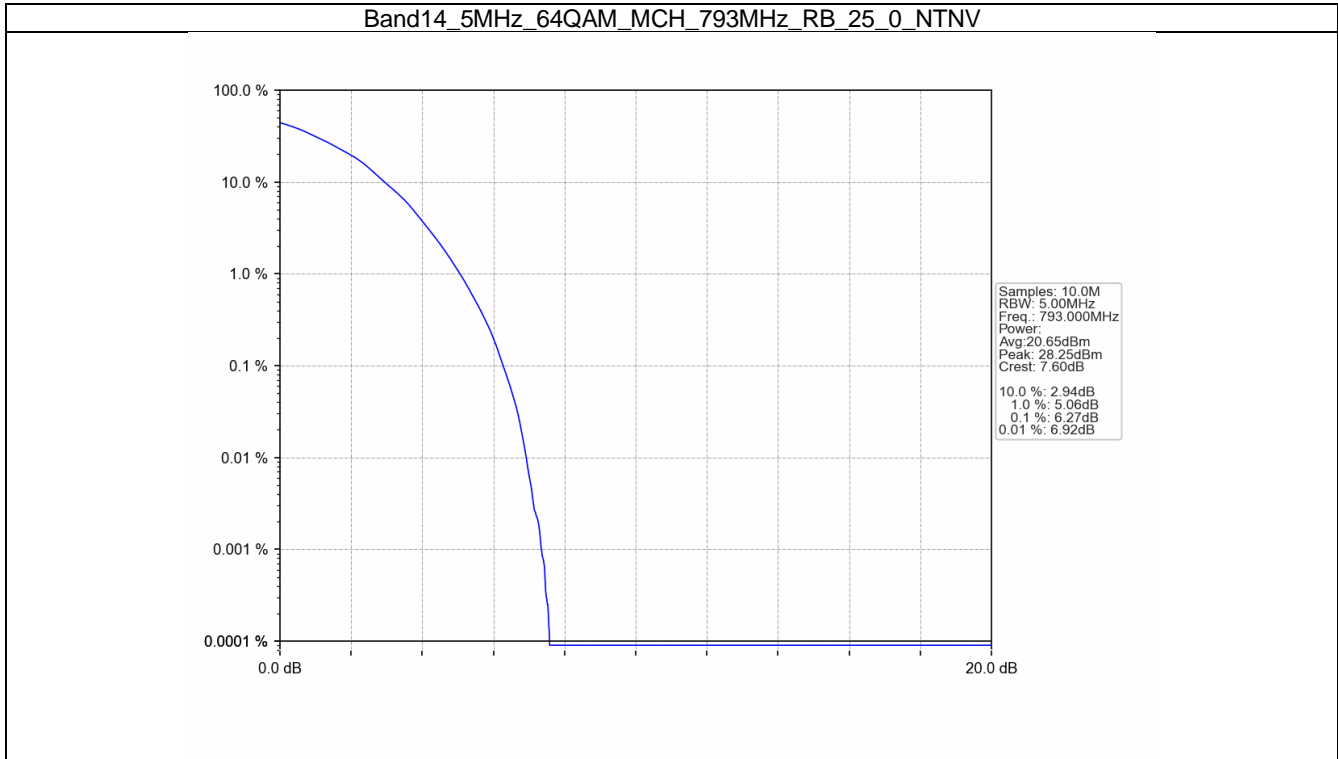


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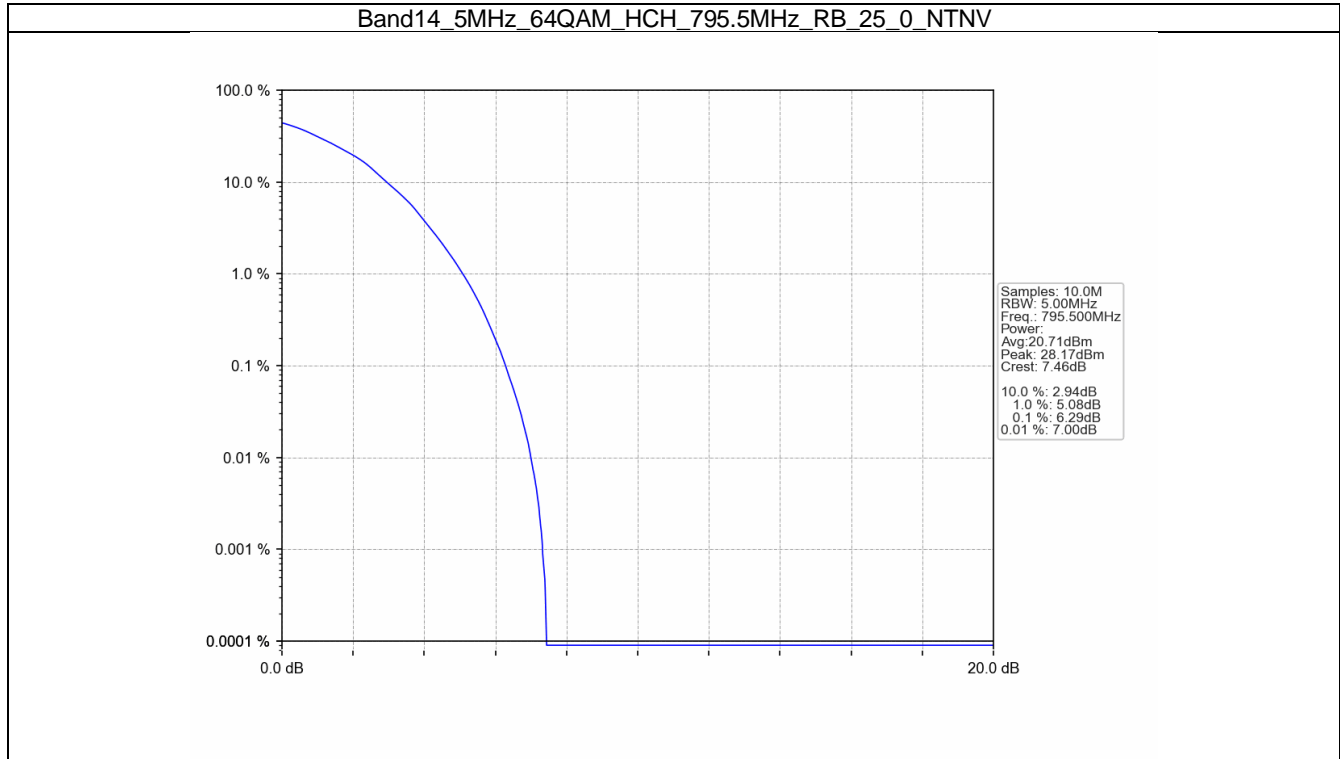
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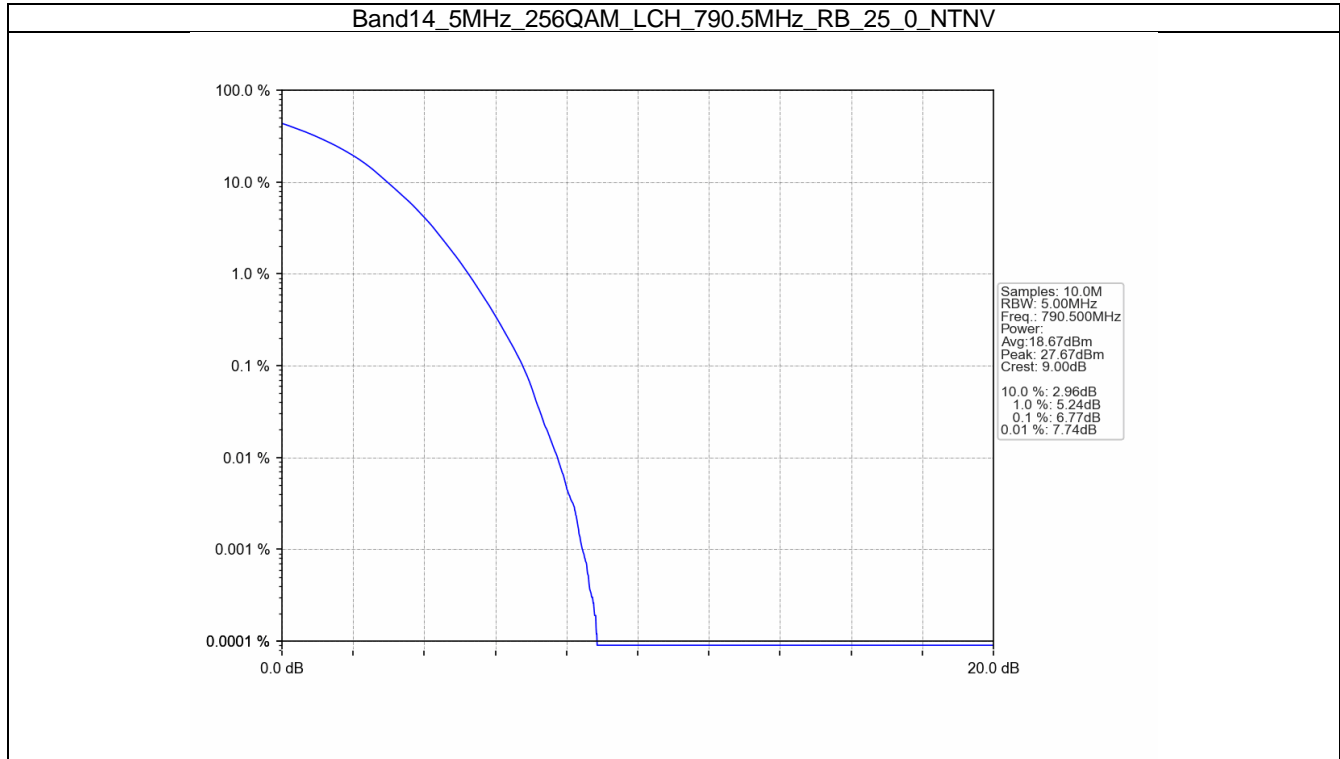
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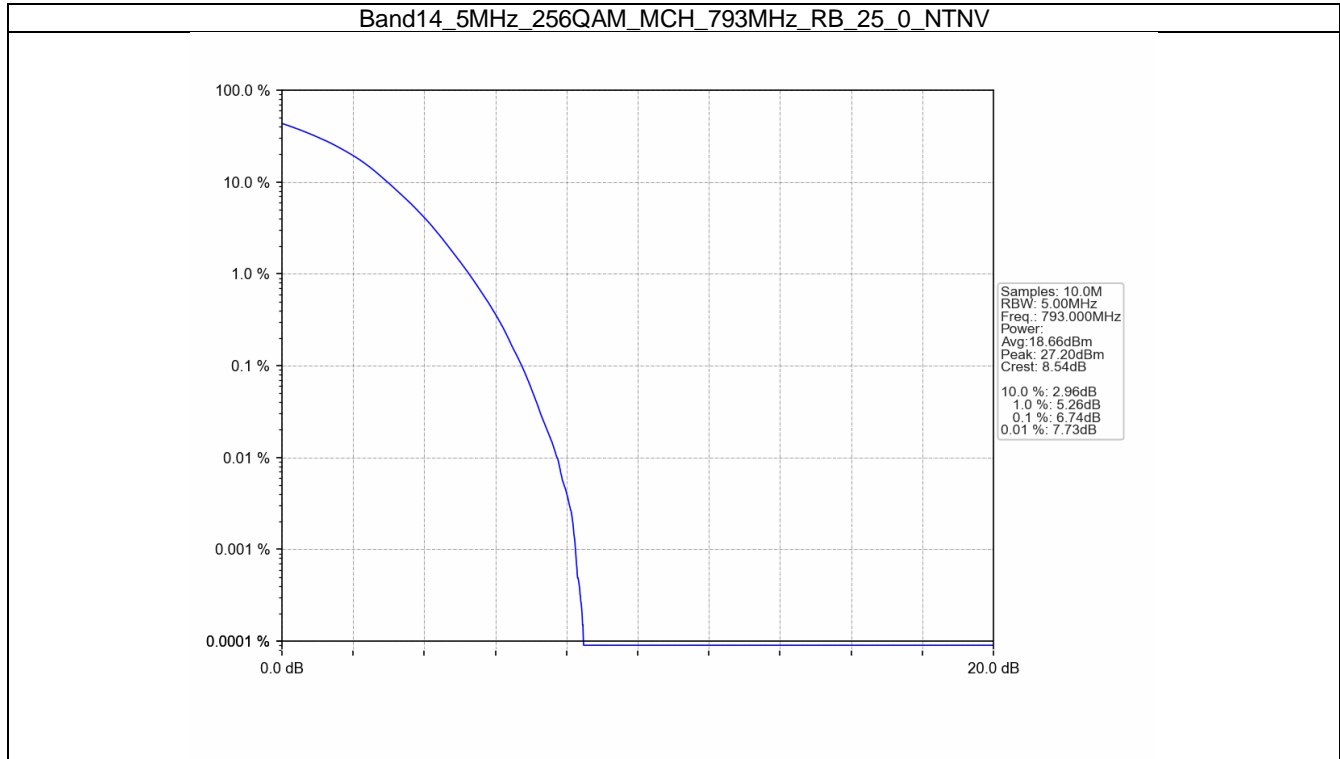
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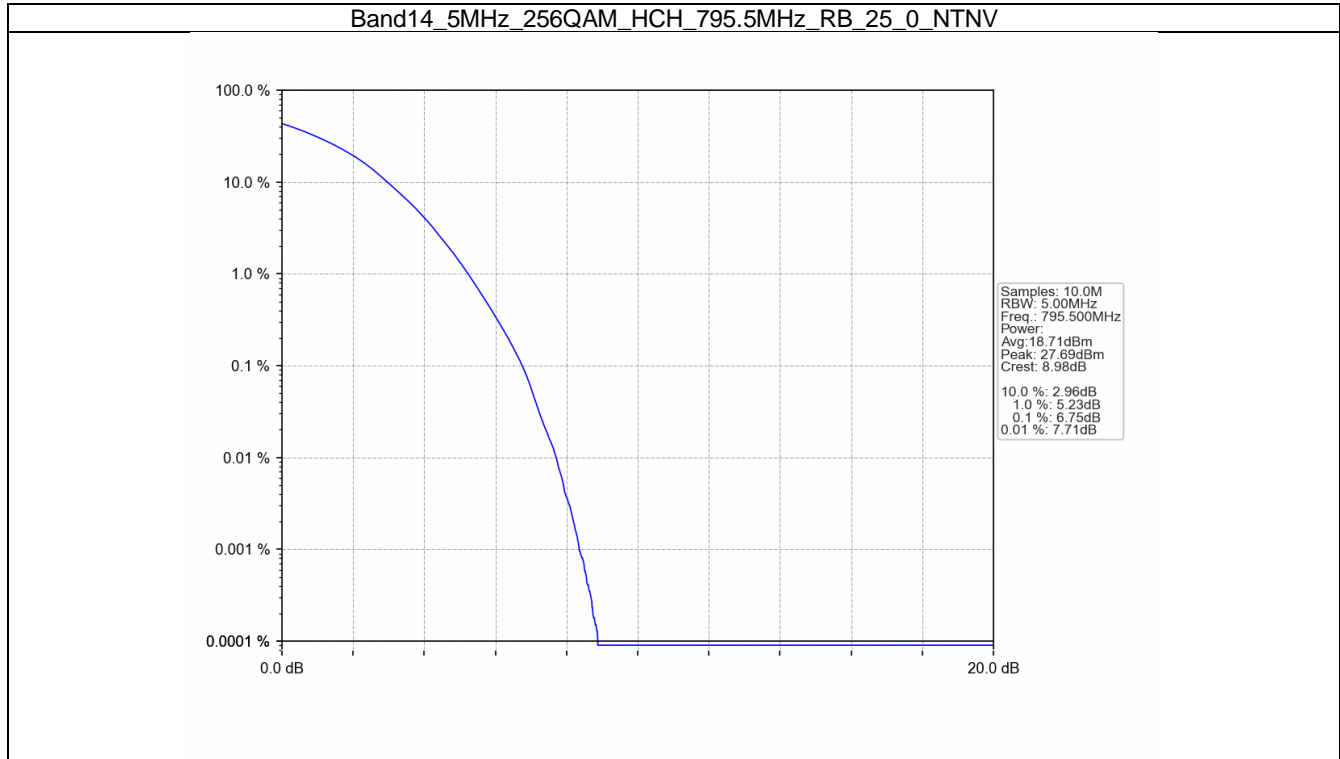
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5.2 B14\_10MHz

5.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	793	50	0	5.12	<=13	Pass
16QAM	793	50	0	5.90	<=13	Pass
64QAM	793	50	0	6.34	<=13	Pass
256QAM	793	50	0	6.62	<=13	Pass



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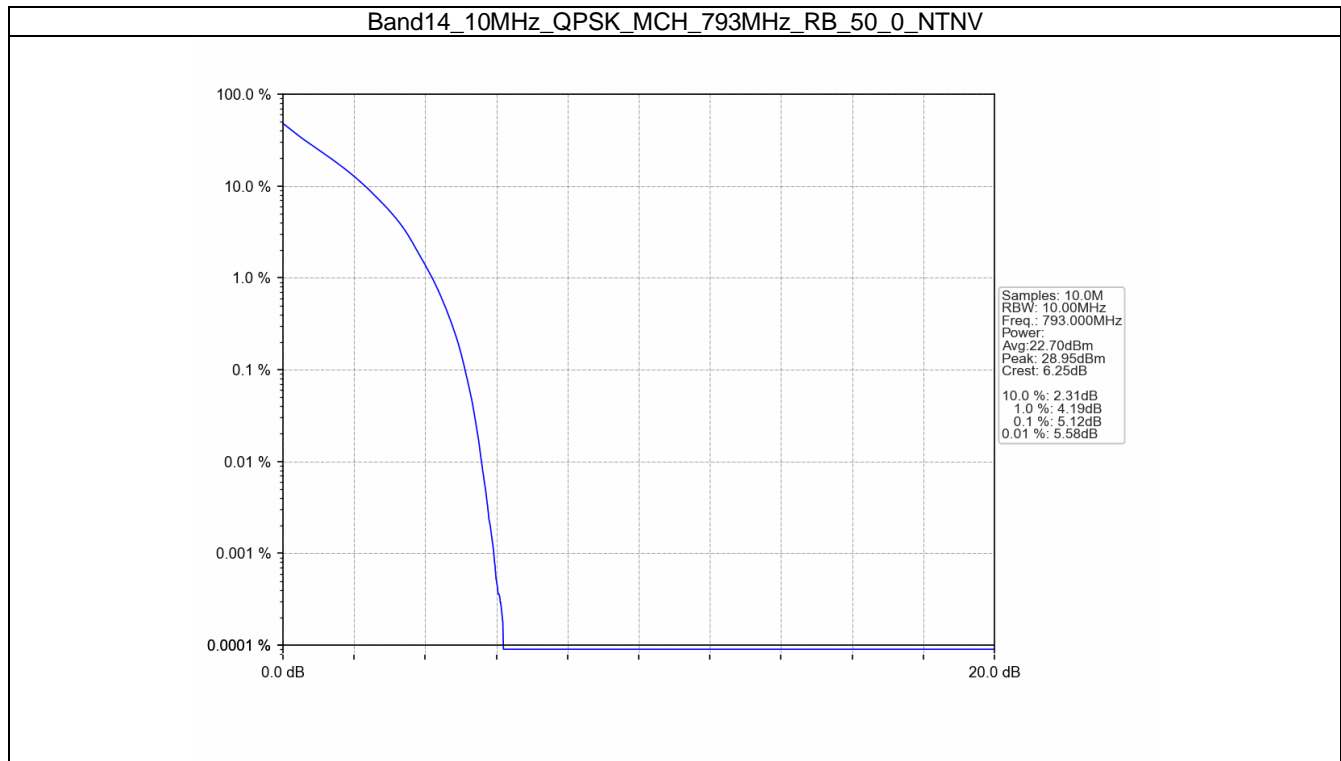
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### 5.2.2 Test Graph



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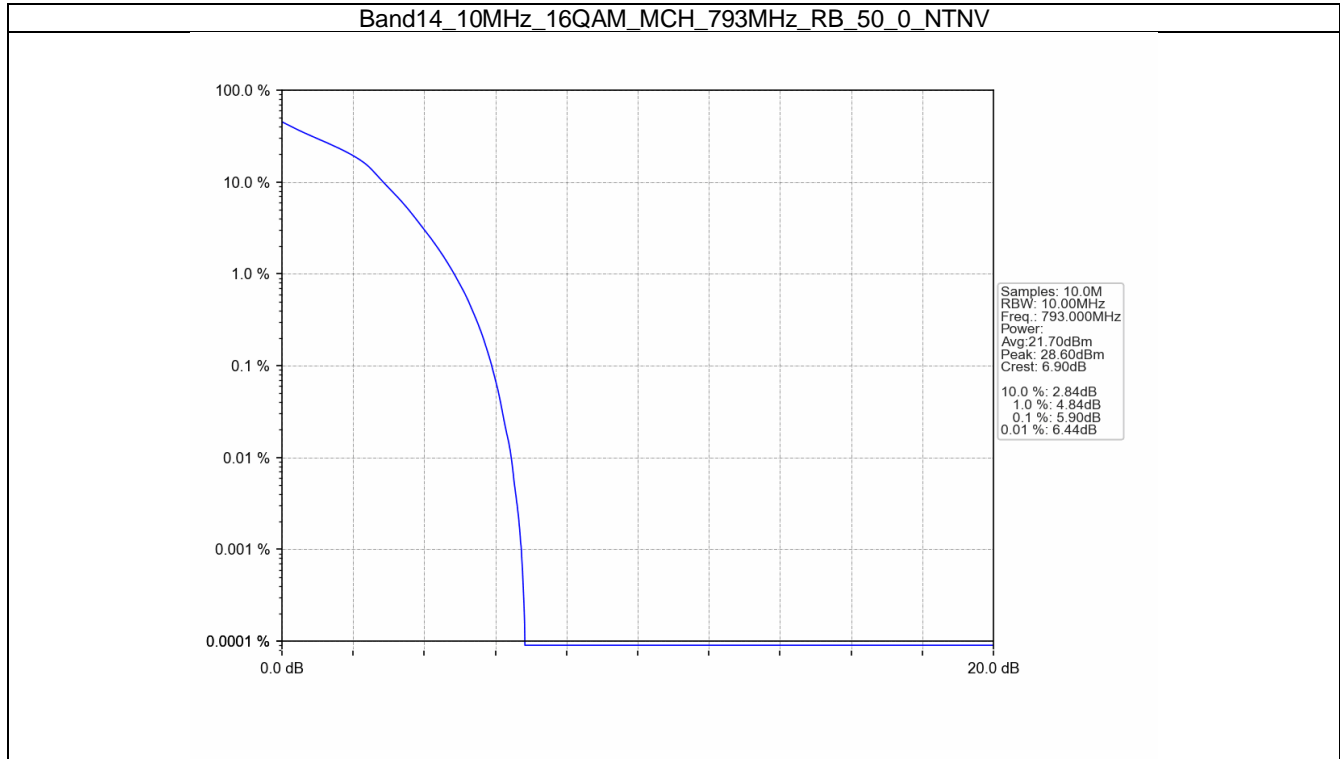
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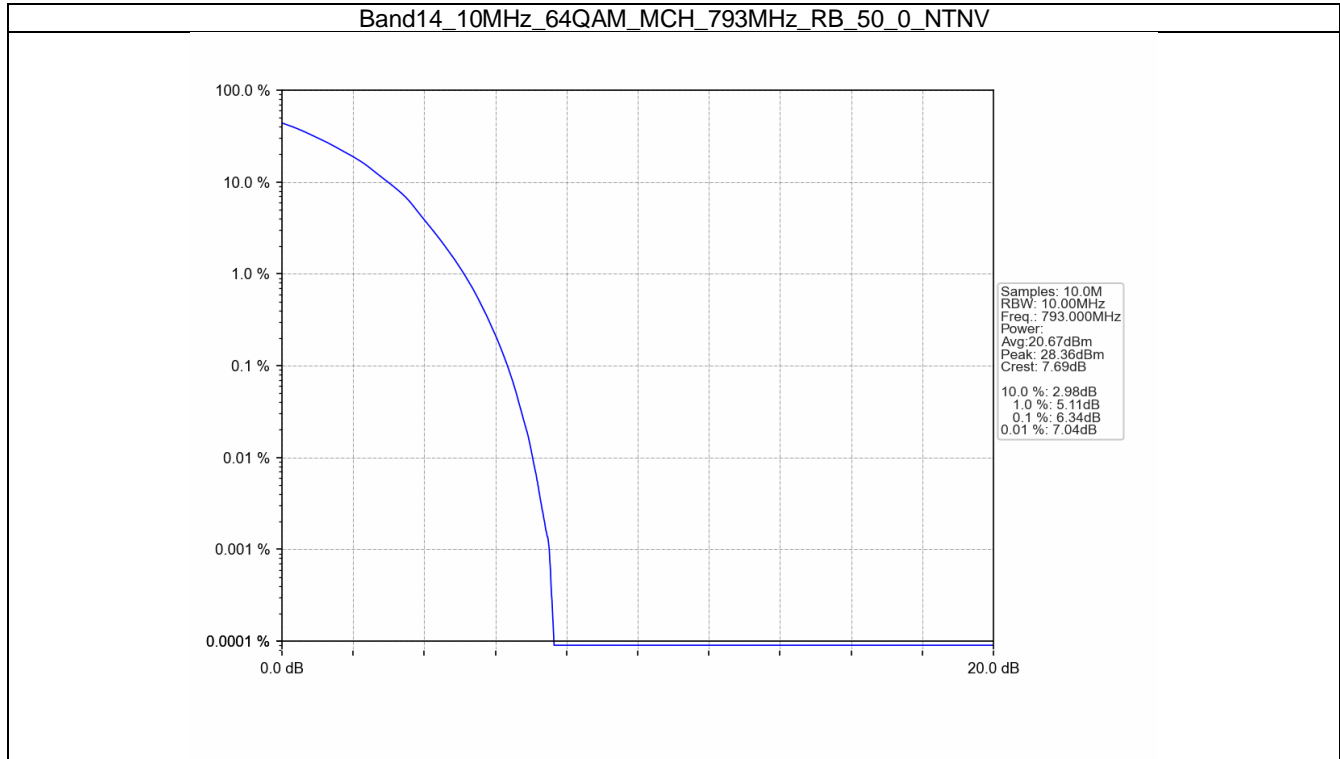
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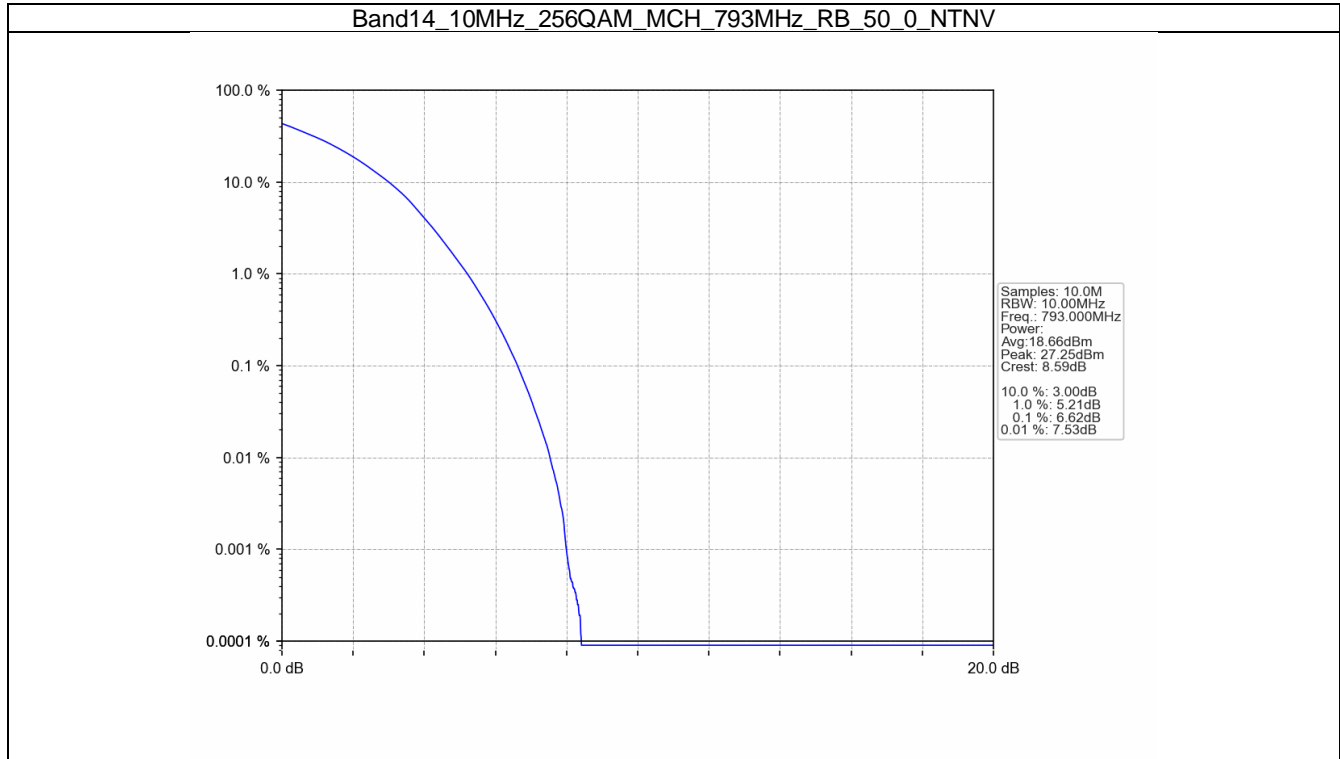
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## 6. Spurious Emission & Band Edges

### 6.1 B14\_5MHz

#### 6.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	793	1	0	Refer To Test Graph		Pass
	795.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



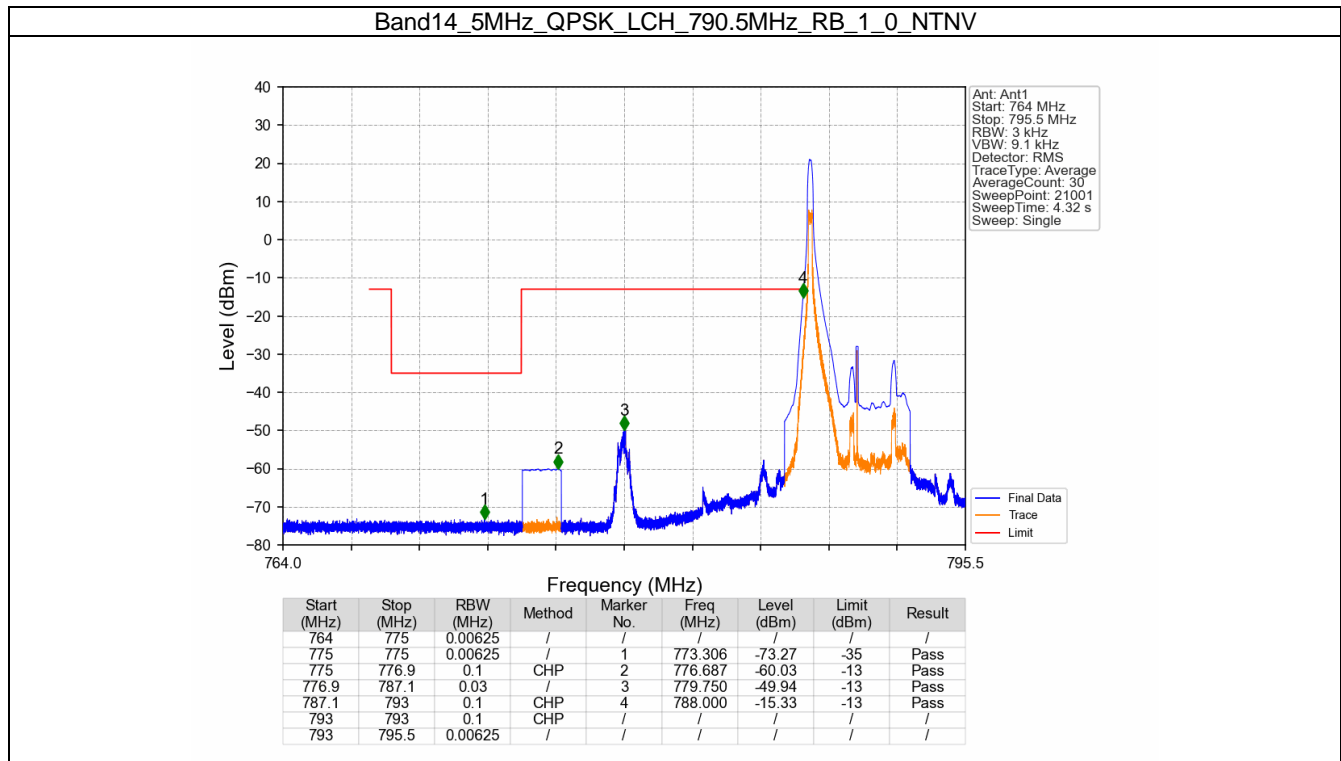
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6.1.2 Test Graph



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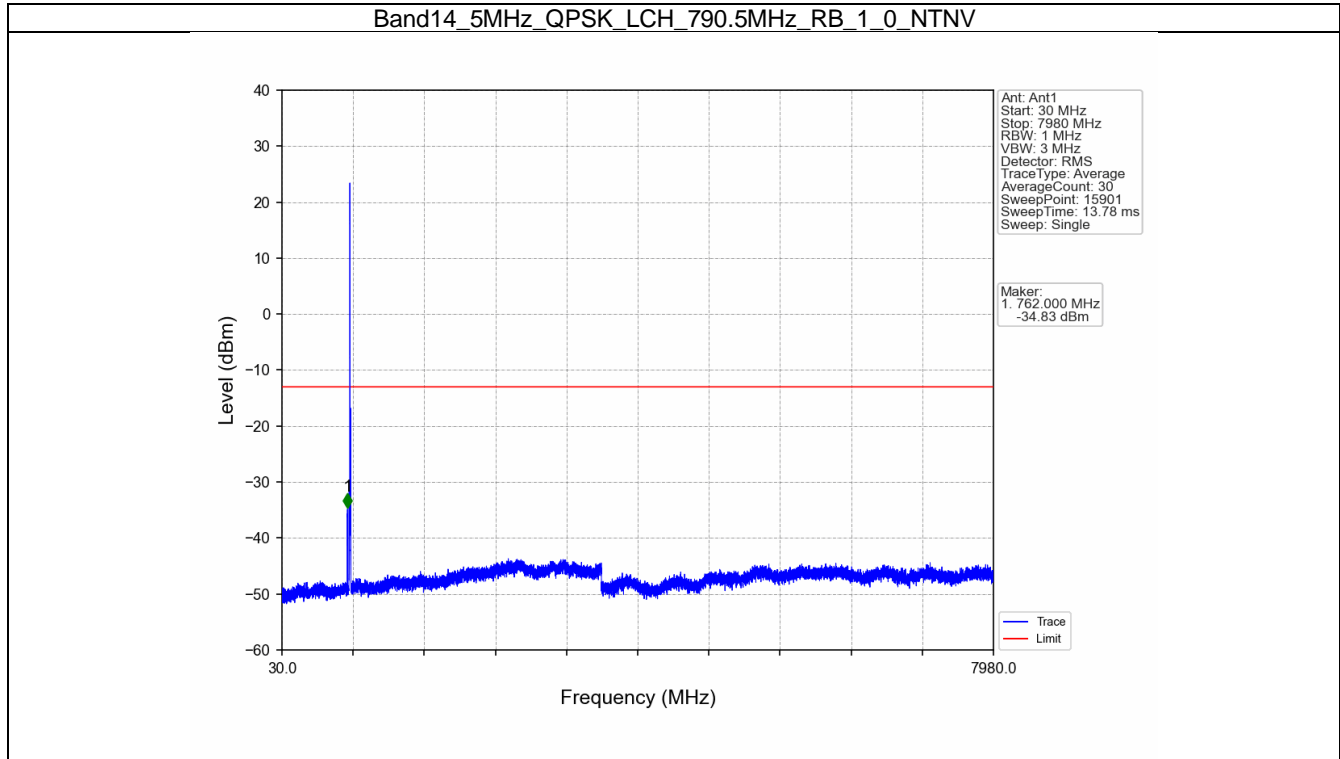
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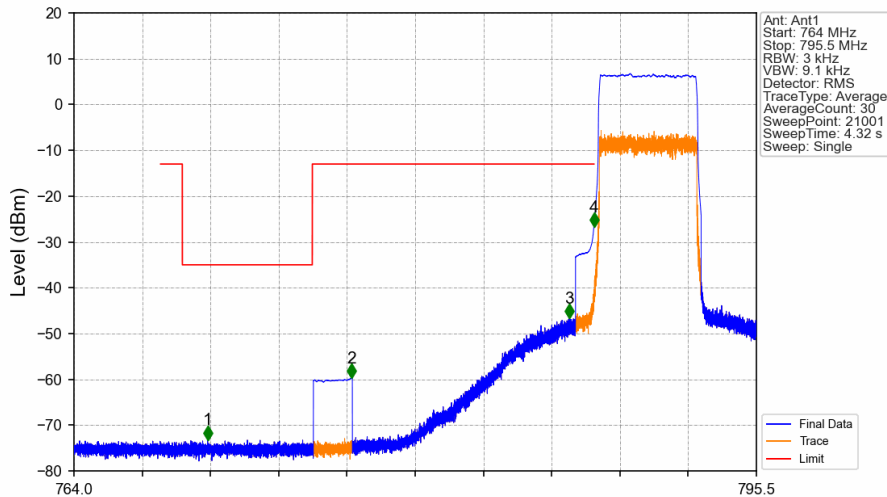
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Band14\_5MHz\_QPSK\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	/	/	/	/	/
775	775	0.00625	/	1	770.169	-73.22	-35	Pass
775	776.9	0.1	CHP	2	776.803	-59.72	-13	Pass
776.9	787.1	0.03	/	3	786.861	-46.74	-13	Pass
787.1	793	0.1	CHP	4	788.000	-26.76	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	795.5	0.00625	/	/	/	/	/	/



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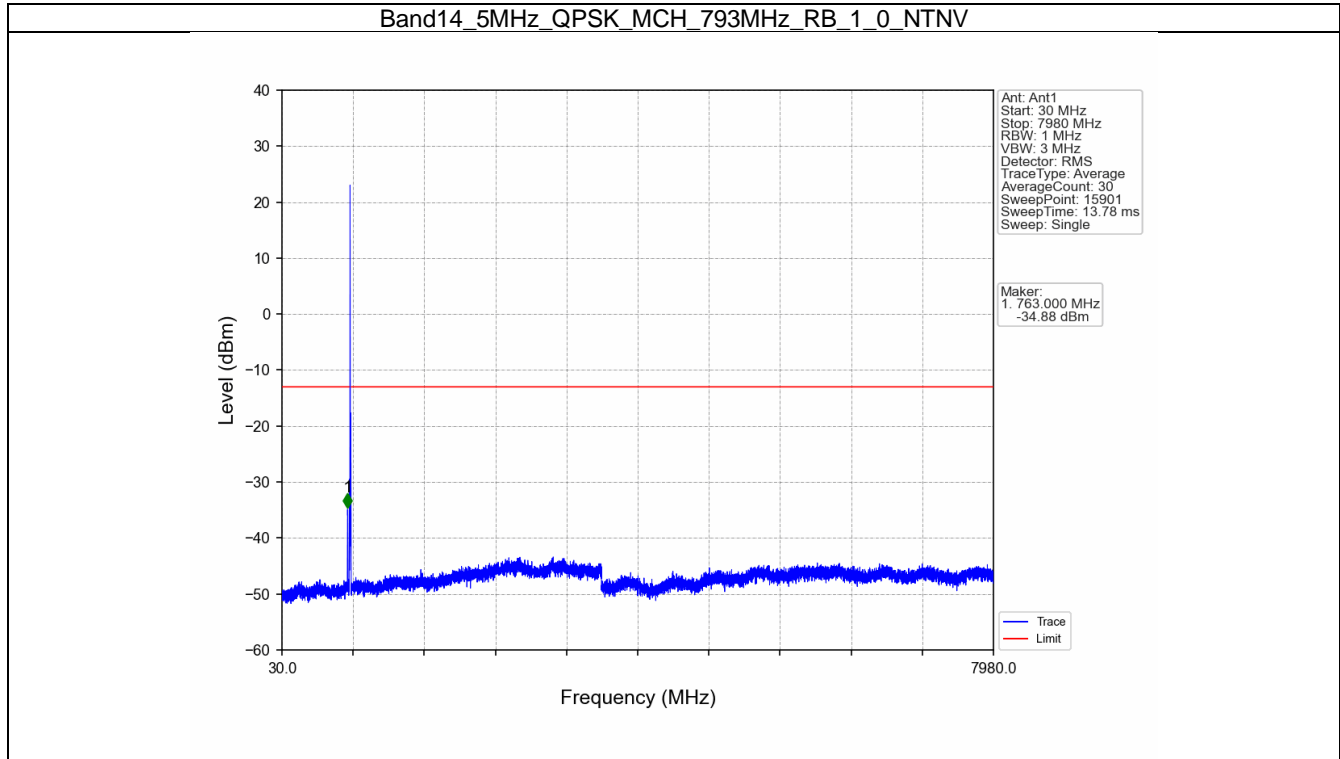
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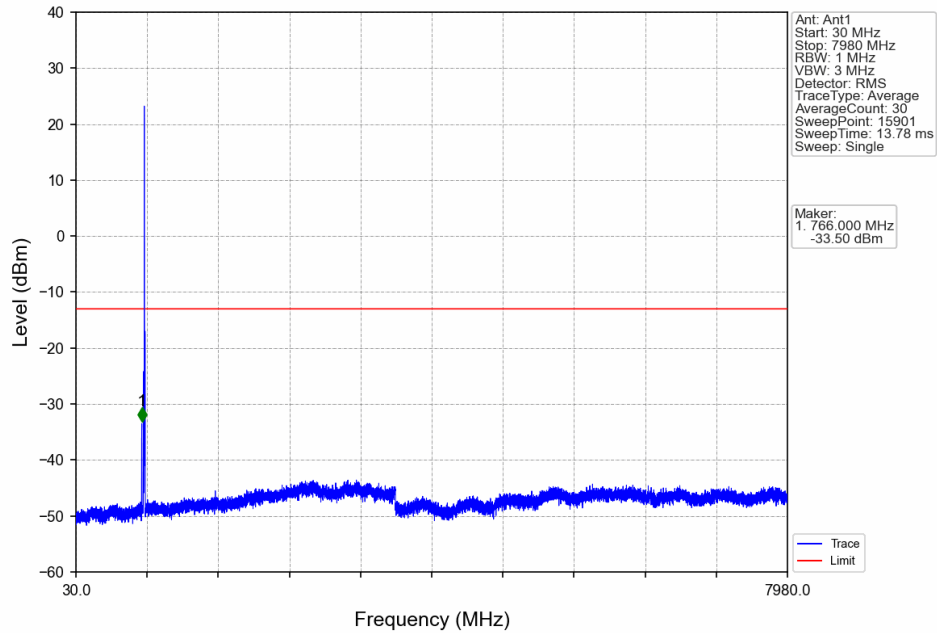


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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_1\_0\_NTNV



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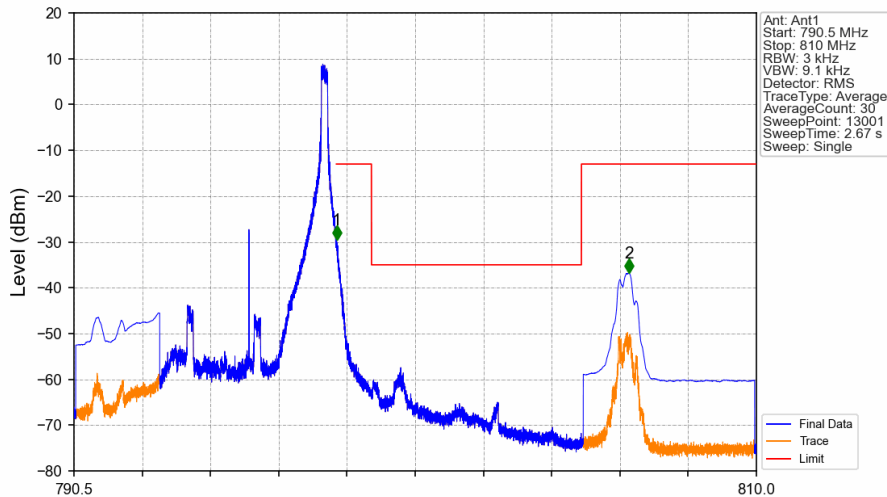
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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	1	798.003	-29.57	-13	Pass
805	810	0.1	CHP	2	806.352	-36.77	-13	Pass

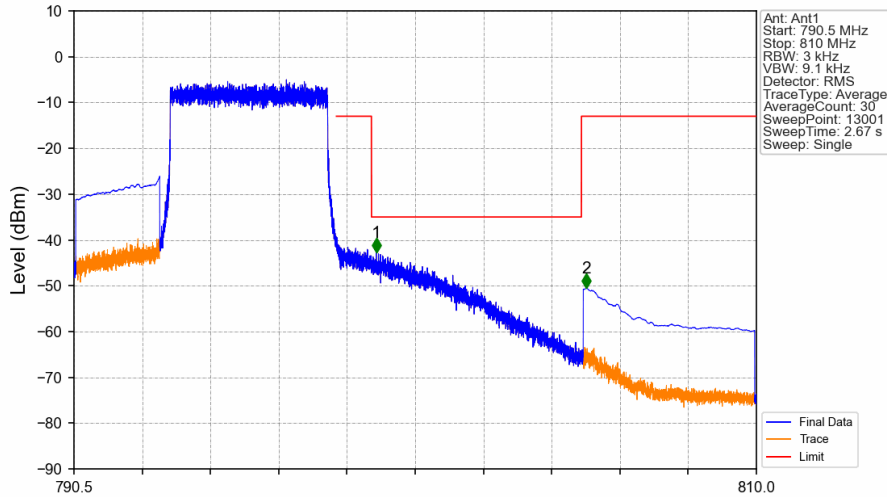


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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	1	799.139	-42.71	-35	Pass
805	810	0.1	CHP	2	805.139	-50.44	-13	Pass



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6.2 B14\_10MHz

6.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	793	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



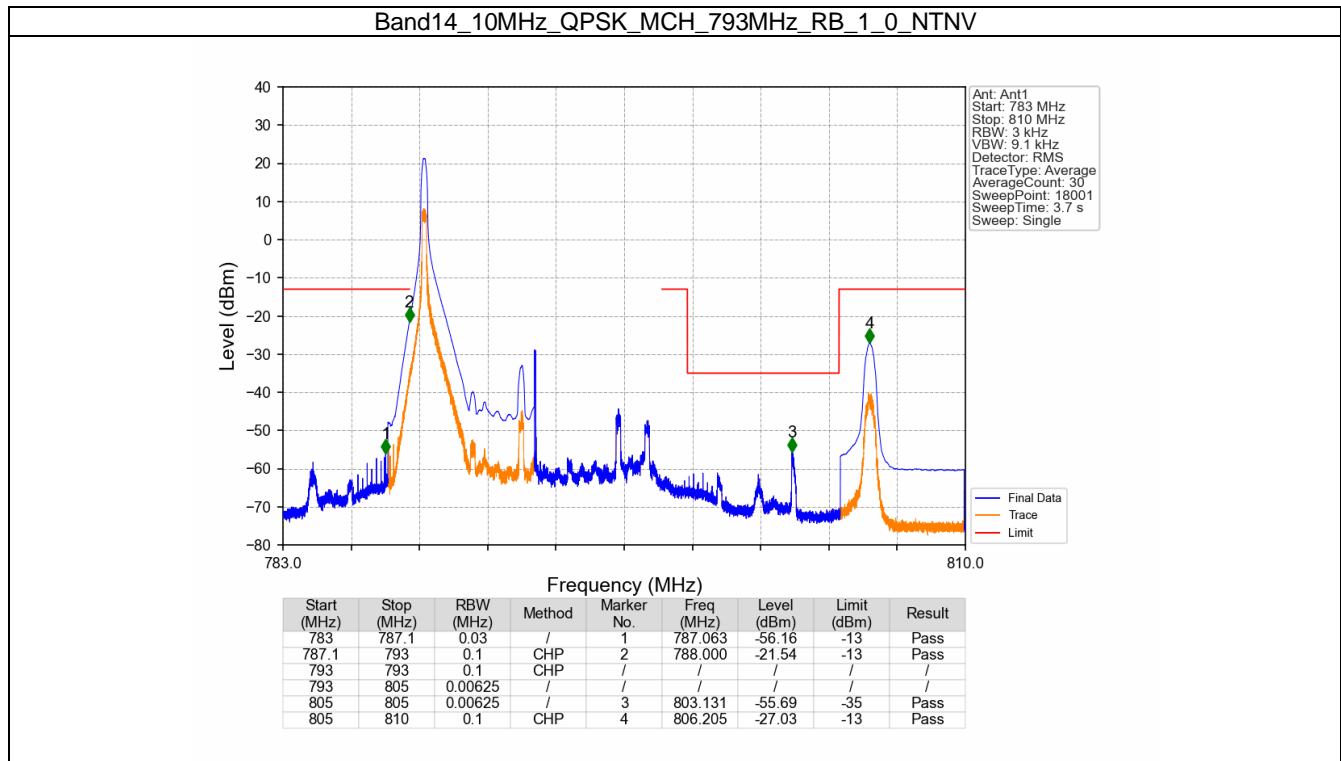
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6.2.2 Test Graph



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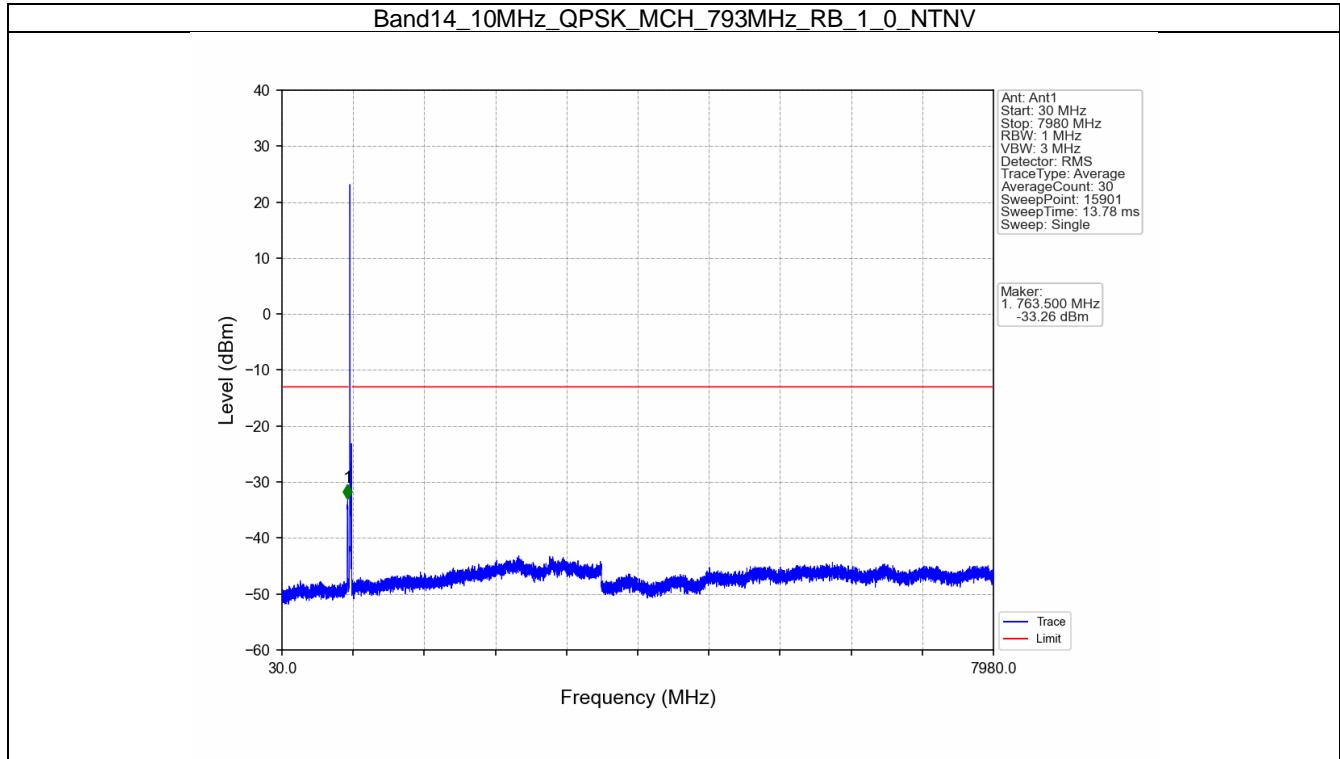
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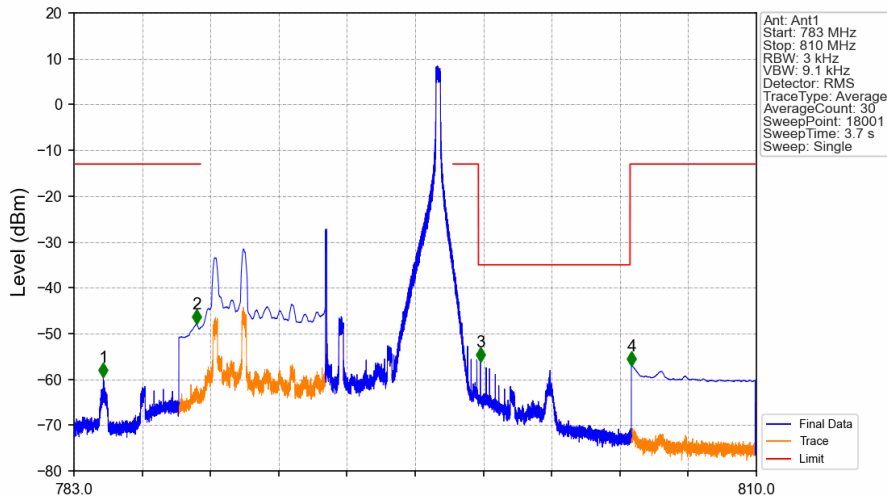


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Band14\_10MHz\_QPSK\_MCH\_793MHz\_RB\_1\_49\_NTNV



Ant: Ant1  
 Start: 783 MHz  
 Stop: 810 MHz  
 RBW: 3 kHz  
 VBW: 9.1 kHz  
 Detector: RMS  
 Trace Type: Average  
 Average Count: 30  
 Sweep Point: 18001  
 Sweep Time: 3.7 s  
 Sweep: Single

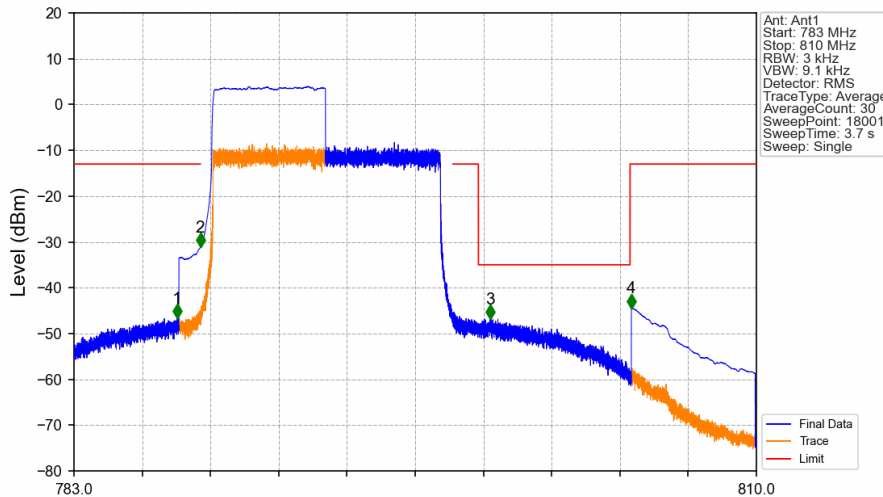
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	784.164	-59.53	-13	Pass
787.1	793	0.1	CHP	2	787.845	-47.92	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	799.078	-56.23	-35	Pass
805	810	0.1	CHP	4	805.067	-57.11	-13	Pass



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Band14\_10MHz\_QPSK\_MCH\_793MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	787.069	-46.64	-13	Pass
787.1	793	0.1	CHP	2	787.995	-31.12	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	799.458	-46.81	-35	Pass
805	810	0.1	CHP	4	805.052	-44.49	-13	Pass



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## 7. Field Strength of Spurious Radiation

Test Band = LTE Band14\_10M\_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1800	44.04	-48.29	25.19	-74.32	-40.00	34.32	Horizontal
2	2365.7700	42.11	-47.47	26.93	-73.69	-13.00	60.69	Horizontal
3	3154.3600	41.51	-46.50	28.39	-71.85	-13.00	58.85	Horizontal
4	3942.9500	41.30	-46.22	29.04	-71.13	-13.00	58.13	Horizontal
5	4731.5400	40.84	-45.75	30.81	-69.36	-13.00	56.36	Horizontal
6	5520.1300	39.89	-45.17	32.60	-67.93	-13.00	54.93	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1800	42.59	-48.29	25.19	-75.77	-40.00	35.77	Vertical
2	2365.7700	41.85	-47.47	26.93	-73.95	-13.00	60.95	Vertical
3	3154.3600	41.74	-46.50	28.39	-71.62	-13.00	58.62	Vertical
4	3942.9500	40.54	-46.22	29.04	-71.89	-13.00	58.89	Vertical
5	4731.5400	40.17	-45.75	30.81	-70.03	-13.00	57.03	Vertical
6	5520.1300	39.80	-45.17	32.60	-68.02	-13.00	55.02	Vertical



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Test Band = LTE Band14\_5M\_TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1579.6800	42.87	-48.29	25.19	-75.49	-40.00	35.49	Horizontal
2	2365.0200	42.98	-47.47	26.92	-72.83	-13.00	59.83	Horizontal
3	3153.3600	41.69	-46.50	28.39	-71.68	-13.00	58.68	Horizontal
4	3941.7000	41.26	-46.22	29.04	-71.18	-13.00	58.18	Horizontal
5	4730.0400	40.34	-45.75	30.81	-69.86	-13.00	56.86	Horizontal
6	5518.3800	40.08	-45.16	32.60	-67.74	-13.00	54.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1579.6800	42.19	-48.29	25.19	-76.17	-40.00	36.17	Vertical
2	2365.0200	42.12	-47.47	26.92	-73.69	-13.00	60.69	Vertical
3	3153.3600	40.74	-46.50	28.39	-72.63	-13.00	59.63	Vertical
4	3941.7000	40.48	-46.22	29.04	-71.96	-13.00	58.96	Vertical
5	4730.0400	39.64	-45.75	30.81	-70.56	-13.00	57.56	Vertical
6	5518.3800	39.13	-45.16	32.60	-68.69	-13.00	55.69	Vertical



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Test Band = LTE Band14\_5M\_ TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.6800	42.86	-48.29	25.19	-75.50	-40.00	35.50	Horizontal
2	2372.5200	41.94	-47.46	26.94	-73.84	-13.00	60.84	Horizontal
3	3163.3600	41.41	-46.46	28.40	-71.91	-13.00	58.91	Horizontal
4	3954.2000	40.83	-46.21	29.05	-71.59	-13.00	58.59	Horizontal
5	4745.0400	40.24	-45.73	30.84	-69.91	-13.00	56.91	Horizontal
6	5535.8800	38.37	-45.19	32.61	-69.47	-13.00	56.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.6800	41.52	-48.29	25.19	-76.84	-40.00	36.84	Vertical
2	2372.5200	41.63	-47.46	26.94	-74.15	-13.00	61.15	Vertical
3	3163.3600	41.51	-46.46	28.40	-71.81	-13.00	58.81	Vertical
4	3954.2000	40.52	-46.21	29.05	-71.90	-13.00	58.90	Vertical
5	4745.0400	39.58	-45.73	30.84	-70.57	-13.00	57.57	Vertical
6	5535.8800	38.88	-45.19	32.61	-68.96	-13.00	55.96	Vertical



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**Test Band = LTE Band14\_5M\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6800	42.65	-48.29	25.19	-75.70	-40.00	35.70	Horizontal
2	2380.0200	43.04	-47.46	26.97	-72.71	-13.00	59.71	Horizontal
3	3173.3600	42.25	-46.41	28.40	-71.02	-13.00	58.02	Horizontal
4	3966.7000	41.44	-46.21	29.07	-70.96	-13.00	57.96	Horizontal
5	4760.0400	40.19	-45.70	30.87	-69.90	-13.00	56.90	Horizontal
6	5553.3800	39.82	-45.21	32.61	-68.04	-13.00	55.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6800	41.20	-48.29	25.19	-77.15	-40.00	37.15	Vertical
2	2380.0200	42.01	-47.46	26.97	-73.74	-13.00	60.74	Vertical
3	3173.3600	41.70	-46.41	28.40	-71.57	-13.00	58.57	Vertical
4	3966.7000	40.81	-46.21	29.07	-71.59	-13.00	58.59	Vertical
5	4760.0400	39.87	-45.70	30.87	-70.22	-13.00	57.22	Vertical
6	5553.3800	39.19	-45.21	32.61	-68.67	-13.00	55.67	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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