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Appendix B.17

LTE Band 41



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B41_5MHz_EIRP (NPANT002)

1.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNv									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2498.5	1	0	23.12	3.16	26.28	<=33.00	Pass	
			13	23.29	3.16	26.45	<=33.00	Pass	
			24	23.05	3.16	26.21	<=33.00	Pass	
		12	0	22.18	3.16	25.34	<=33.00	Pass	
			6	22.22	3.16	25.38	<=33.00	Pass	
			13	22.18	3.16	25.34	<=33.00	Pass	
		25	0	22.19	3.16	25.35	<=33.00	Pass	
			1	0	23.35	3.16	26.51	<=33.00	Pass
				13	23.44	3.16	26.60	<=33.00	Pass
	24	23.35		3.16	26.51	<=33.00	Pass		
	2593	12	0	22.37	3.16	25.53	<=33.00	Pass	
			6	22.31	3.16	25.47	<=33.00	Pass	
			13	22.35	3.16	25.51	<=33.00	Pass	
		25	0	22.36	3.16	25.52	<=33.00	Pass	
			1	0	22.99	3.16	26.15	<=33.00	Pass
				13	23.03	3.16	26.19	<=33.00	Pass
		24		22.94	3.16	26.10	<=33.00	Pass	
		2687.5	12	0	22.23	3.16	25.39	<=33.00	Pass
				6	22.18	3.16	25.34	<=33.00	Pass
	13			22.15	3.16	25.31	<=33.00	Pass	
	25		0	22.27	3.16	25.43	<=33.00	Pass	
			1	0	22.11	3.16	25.27	<=33.00	Pass
				13	22.19	3.16	25.35	<=33.00	Pass
	16QAM	2498.5		1	24	22.19	3.16	25.35	<=33.00
12			0		21.12	3.16	24.28	<=33.00	Pass
			6		21.13	3.16	24.29	<=33.00	Pass
			13	21.13	3.16	24.29	<=33.00	Pass	
25			0	21.11	3.16	24.27	<=33.00	Pass	
			1	0	22.32	3.16	25.48	<=33.00	Pass
				13	22.30	3.16	25.46	<=33.00	Pass
24				22.63	3.16	25.79	<=33.00	Pass	
2593			12	0	21.29	3.16	24.45	<=33.00	Pass
		6		21.29	3.16	24.45	<=33.00	Pass	
		13		21.36	3.16	24.52	<=33.00	Pass	
		25	0	21.22	3.16	24.38	<=33.00	Pass	
			1	0	22.18	3.16	25.34	<=33.00	Pass
				13	22.28	3.16	25.44	<=33.00	Pass
		24		22.34	3.16	25.50	<=33.00	Pass	
		2687.5	12	0	21.28	3.16	24.44	<=33.00	Pass
				6	21.19	3.16	24.35	<=33.00	Pass



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		13	21.27	3.16	24.43	<=33.00	Pass
	25	0	21.15	3.16	24.31	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain							

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1.2 B41_10MHz_EIRP

1.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2501	1	0	23.16	3.16	26.32	<=33.00	Pass	
			25	23.18	3.16	26.34	<=33.00	Pass	
			49	23.18	3.16	26.34	<=33.00	Pass	
		25	0	22.11	3.16	25.27	<=33.00	Pass	
			13	22.15	3.16	25.31	<=33.00	Pass	
			25	22.23	3.16	25.39	<=33.00	Pass	
		50	0	22.22	3.16	25.38	<=33.00	Pass	
			1	0	23.24	3.16	26.40	<=33.00	Pass
				25	23.30	3.16	26.46	<=33.00	Pass
	49	23.25		3.16	26.41	<=33.00	Pass		
	2593	25	0	22.39	3.16	25.55	<=33.00	Pass	
			13	22.29	3.16	25.45	<=33.00	Pass	
			25	22.37	3.16	25.53	<=33.00	Pass	
		50	0	22.37	3.16	25.53	<=33.00	Pass	
			1	0	23.24	3.16	26.40	<=33.00	Pass
				25	23.04	3.16	26.20	<=33.00	Pass
		49		23.13	3.16	26.29	<=33.00	Pass	
		2685	25	0	22.24	3.16	25.40	<=33.00	Pass
				13	22.18	3.16	25.34	<=33.00	Pass
	25			22.29	3.16	25.45	<=33.00	Pass	
	50		0	22.25	3.16	25.41	<=33.00	Pass	
			1	0	21.98	3.16	25.14	<=33.00	Pass
				25	22.15	3.16	25.31	<=33.00	Pass
	49	22.27		3.16	25.43	<=33.00	Pass		
25		0	21.13	3.16	24.29	<=33.00	Pass		
		13	21.19	3.16	24.35	<=33.00	Pass		
	25	21.17	3.16	24.33	<=33.00	Pass			
50	0	21.19	3.16	24.35	<=33.00	Pass			
	1	0	22.12	3.16	25.28	<=33.00	Pass		
		25	22.17	3.16	25.33	<=33.00	Pass		
49		22.15	3.16	25.31	<=33.00	Pass			
16QAM	2593	25	0	21.42	3.16	24.58	<=33.00	Pass	
			13	21.39	3.16	24.55	<=33.00	Pass	
			25	21.29	3.16	24.45	<=33.00	Pass	
		50	0	21.41	3.16	24.57	<=33.00	Pass	
			1	0	22.15	3.16	25.31	<=33.00	Pass
				25	21.84	3.16	25.00	<=33.00	Pass
	49	22.11		3.16	25.27	<=33.00	Pass		
	2685	25	0	21.19	3.16	24.35	<=33.00	Pass	
			13	21.28	3.16	24.44	<=33.00	Pass	
25			21.28	3.16	24.44	<=33.00	Pass		
50	0	21.28	3.16	24.44	<=33.00	Pass			



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Note1: EIRP=Conducted Power+Antenna Gain



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1.3 B41_15MHz_EIRP

1.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2503.5	1	0	23.25	3.16	26.41	<=33.00	Pass		
			38	23.24	3.16	26.40	<=33.00	Pass		
			74	23.27	3.16	26.43	<=33.00	Pass		
		36	0	22.22	3.16	25.38	<=33.00	Pass		
			18	22.32	3.16	25.48	<=33.00	Pass		
			39	22.24	3.16	25.40	<=33.00	Pass		
		75	0	22.31	3.16	25.47	<=33.00	Pass		
		2593	1	0	23.38	3.16	26.54	<=33.00	Pass	
				38	23.28	3.16	26.44	<=33.00	Pass	
	74			23.29	3.16	26.45	<=33.00	Pass		
	36		0	22.29	3.16	25.45	<=33.00	Pass		
			18	22.34	3.16	25.50	<=33.00	Pass		
			39	22.27	3.16	25.43	<=33.00	Pass		
	75		0	22.29	3.16	25.45	<=33.00	Pass		
	2682.5		1	0	23.13	3.16	26.29	<=33.00	Pass	
				38	23.07	3.16	26.23	<=33.00	Pass	
		74		23.07	3.16	26.23	<=33.00	Pass		
		36	0	22.21	3.16	25.37	<=33.00	Pass		
			18	22.15	3.16	25.31	<=33.00	Pass		
			39	22.11	3.16	25.27	<=33.00	Pass		
		75	0	22.19	3.16	25.35	<=33.00	Pass		
		16QAM	2503.5	1	0	22.18	3.16	25.34	<=33.00	Pass
					38	22.21	3.16	25.37	<=33.00	Pass
	74				22.33	3.16	25.49	<=33.00	Pass	
36	0			21.17	3.16	24.33	<=33.00	Pass		
	18			21.28	3.16	24.44	<=33.00	Pass		
	39			21.26	3.16	24.42	<=33.00	Pass		
75	0			21.22	3.16	24.38	<=33.00	Pass		
2593	1			0	22.22	3.16	25.38	<=33.00	Pass	
				38	22.13	3.16	25.29	<=33.00	Pass	
			74	22.16	3.16	25.32	<=33.00	Pass		
	36		0	21.38	3.16	24.54	<=33.00	Pass		
			18	21.38	3.16	24.54	<=33.00	Pass		
			39	21.36	3.16	24.52	<=33.00	Pass		
	75		0	21.35	3.16	24.51	<=33.00	Pass		
	2682.5		1	0	22.53	3.16	25.69	<=33.00	Pass	
				38	22.28	3.16	25.44	<=33.00	Pass	
74				22.30	3.16	25.46	<=33.00	Pass		
36			0	21.13	3.16	24.29	<=33.00	Pass		
			18	21.16	3.16	24.32	<=33.00	Pass		
			39	21.16	3.16	24.32	<=33.00	Pass		
75			0	21.26	3.16	24.42	<=33.00	Pass		



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1.4 B41_20MHz_EIRP

1.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2506	1	0	23.26	3.16	26.42	<=33.00	Pass		
			50	23.23	3.16	26.39	<=33.00	Pass		
			99	23.34	3.16	26.50	<=33.00	Pass		
		50	0	22.25	3.16	25.41	<=33.00	Pass		
			25	22.19	3.16	25.35	<=33.00	Pass		
			50	22.29	3.16	25.45	<=33.00	Pass		
		100	0	22.19	3.16	25.35	<=33.00	Pass		
		2593	1	0	23.28	3.16	26.44	<=33.00	Pass	
				50	23.27	3.16	26.43	<=33.00	Pass	
	99			23.27	3.16	26.43	<=33.00	Pass		
	50		0	22.32	3.16	25.48	<=33.00	Pass		
			25	22.30	3.16	25.46	<=33.00	Pass		
			50	22.40	3.16	25.56	<=33.00	Pass		
	100		0	22.28	3.16	25.44	<=33.00	Pass		
	2680		1	0	23.19	3.16	26.35	<=33.00	Pass	
				50	23.19	3.16	26.35	<=33.00	Pass	
		99		23.02	3.16	26.18	<=33.00	Pass		
		50	0	22.24	3.16	25.40	<=33.00	Pass		
			25	22.23	3.16	25.39	<=33.00	Pass		
			50	22.21	3.16	25.37	<=33.00	Pass		
		100	0	22.20	3.16	25.36	<=33.00	Pass		
		16QAM	2506	1	0	22.08	3.16	25.24	<=33.00	Pass
					50	22.48	3.16	25.64	<=33.00	Pass
	99				22.14	3.16	25.30	<=33.00	Pass	
50	0			21.19	3.16	24.35	<=33.00	Pass		
	25			21.21	3.16	24.37	<=33.00	Pass		
	50			21.19	3.16	24.35	<=33.00	Pass		
100	0			21.25	3.16	24.41	<=33.00	Pass		
2593	1			0	22.12	3.16	25.28	<=33.00	Pass	
				50	22.19	3.16	25.35	<=33.00	Pass	
			99	22.14	3.16	25.30	<=33.00	Pass		
	50		0	21.37	3.16	24.53	<=33.00	Pass		
			25	21.39	3.16	24.55	<=33.00	Pass		
			50	21.46	3.16	24.62	<=33.00	Pass		
	100		0	21.37	3.16	24.53	<=33.00	Pass		
	2680		1	0	22.28	3.16	25.44	<=33.00	Pass	
				50	21.74	3.16	24.90	<=33.00	Pass	
99				22.17	3.16	25.33	<=33.00	Pass		
50			0	21.21	3.16	24.37	<=33.00	Pass		
			25	21.20	3.16	24.36	<=33.00	Pass		
			50	21.20	3.16	24.36	<=33.00	Pass		
100			0	21.23	3.16	24.39	<=33.00	Pass		



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Note1: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.4 B41_20MHz

2.4.1 Test Result

Band: 41 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2506	100	0	20	3.135	3.166	0.0013	/	Pass	
					3.7	6.847	0.0027	/	Pass	
					4.4	5.080	0.0020	/	Pass	
				-30	3.7	9.483	0.0038	/	Pass	
					-20	3.7	9.855	0.0039	/	Pass
						-10	3.7	3.465	0.0014	/
				0	3.7	8.681	0.0035	/	Pass	
					10	3.7	13.283	0.0053	/	Pass
					30	3.7	11.484	0.0046	/	Pass
					40	3.7	1.395	0.0006	/	Pass
	50	3.7	12.843		0.0051	/	Pass			
	2593	100	0		20	3.135	7.238	0.0028	/	Pass
						3.7	2.096	0.0008	/	Pass
				4.4		9.815	0.0038	/	Pass	
				-30	3.7	1.629	0.0006	/	Pass	
					-20	3.7	11.768	0.0045	/	Pass
						-10	3.7	0.183	0.0001	/
				0	3.7	2.849	0.0011	/	Pass	
					10	3.7	1.580	0.0006	/	Pass
					30	3.7	4.292	0.0017	/	Pass
					40	3.7	1.950	0.0008	/	Pass
	50	3.7	7.081		0.0027	/	Pass			
	2680	100	0		20	3.135	10.456	0.0039	/	Pass
						3.7	2.871	0.0011	/	Pass
				4.4		10.369	0.0039	/	Pass	
				-30	3.7	0.025	0.0000	/	Pass	
					-20	3.7	8.661	0.0032	/	Pass
						-10	3.7	0.436	0.0002	/
				0	3.7	4.115	0.0015	/	Pass	
					10	3.7	7.074	0.0026	/	Pass
30					3.7	1.972	0.0007	/	Pass	
40					3.7	8.411	0.0031	/	Pass	
50	3.7	7.407	0.0028		/	Pass				
16QAM	2506	100	0		20	3.135	5.940	0.0024	/	Pass
						3.7	9.121	0.0036	/	Pass
				4.4		10.804	0.0043	/	Pass	
				-30	3.7	4.360	0.0017	/	Pass	
					-20	3.7	1.484	0.0006	/	Pass
						-10	3.7	8.586	0.0034	/
				0	3.7	10.487	0.0042	/	Pass	



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2593	100	0	10	3.7	2.658	0.0011	/	Pass
			30	3.7	5.962	0.0024	/	Pass
			40	3.7	8.826	0.0035	/	Pass
			50	3.7	9.396	0.0037	/	Pass
			20	3.135	9.479	0.0037	/	Pass
				3.7	9.396	0.0036	/	Pass
				4.4	10.715	0.0041	/	Pass
			-30	3.7	11.380	0.0044	/	Pass
			-20	3.7	-0.523	-0.0002	/	Pass
			-10	3.7	11.583	0.0045	/	Pass
			0	3.7	8.723	0.0034	/	Pass
			10	3.7	10.906	0.0042	/	Pass
			30	3.7	6.105	0.0024	/	Pass
40	3.7	13.188	0.0051	/	Pass			
50	3.7	2.727	0.0011	/	Pass			
2680	100	0	20	3.135	8.077	0.0030	/	Pass
				3.7	13.101	0.0049	/	Pass
				4.4	8.153	0.0030	/	Pass
			-30	3.7	3.466	0.0013	/	Pass
			-20	3.7	10.905	0.0041	/	Pass
			-10	3.7	2.388	0.0009	/	Pass
			0	3.7	4.304	0.0016	/	Pass
			10	3.7	4.857	0.0018	/	Pass
			30	3.7	5.672	0.0021	/	Pass
			40	3.7	5.941	0.0022	/	Pass
			50	3.7	6.272	0.0023	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band41_OBW

3.1.1 Test Result

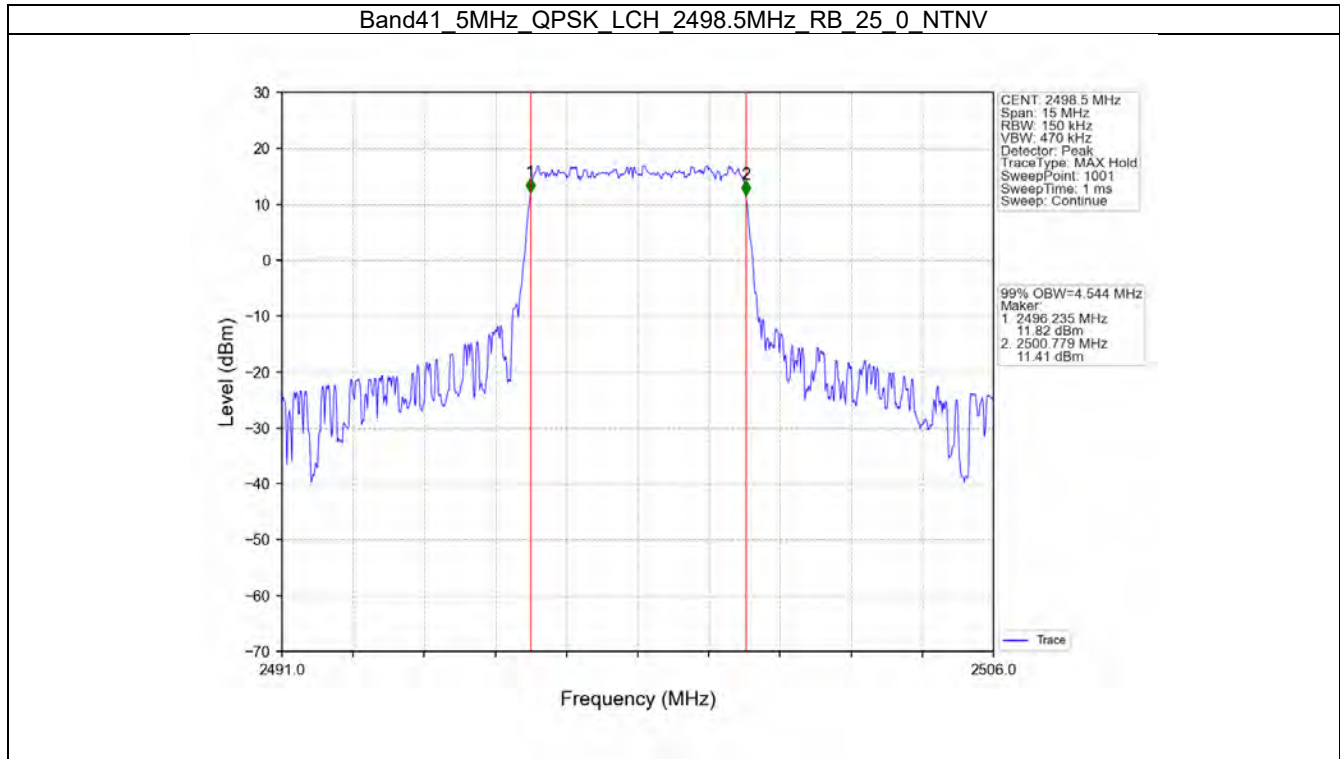
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	4.544	/	Pass
		2593	25	0	4.548	/	Pass
		2687.5	25	0	4.572	/	Pass
	16QAM	2498.5	25	0	4.561	/	Pass
		2593	25	0	4.539	/	Pass
		2687.5	25	0	4.562	/	Pass
10	QPSK	2501	50	0	9.065	/	Pass
		2593	50	0	9.047	/	Pass
		2685	50	0	9.066	/	Pass
	16QAM	2501	50	0	9.044	/	Pass
		2593	50	0	9.058	/	Pass
		2685	50	0	9.055	/	Pass
15	QPSK	2503.5	75	0	13.585	/	Pass
		2593	75	0	13.527	/	Pass
		2682.5	75	0	13.525	/	Pass
	16QAM	2503.5	75	0	13.569	/	Pass
		2593	75	0	13.592	/	Pass
		2682.5	75	0	13.590	/	Pass
20	QPSK	2506	100	0	18.086	/	Pass
		2593	100	0	18.043	/	Pass
		2680	100	0	18.004	/	Pass
	16QAM	2506	100	0	18.020	/	Pass
		2593	100	0	18.013	/	Pass
		2680	100	0	18.055	/	Pass



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3.1.2 Test Graph



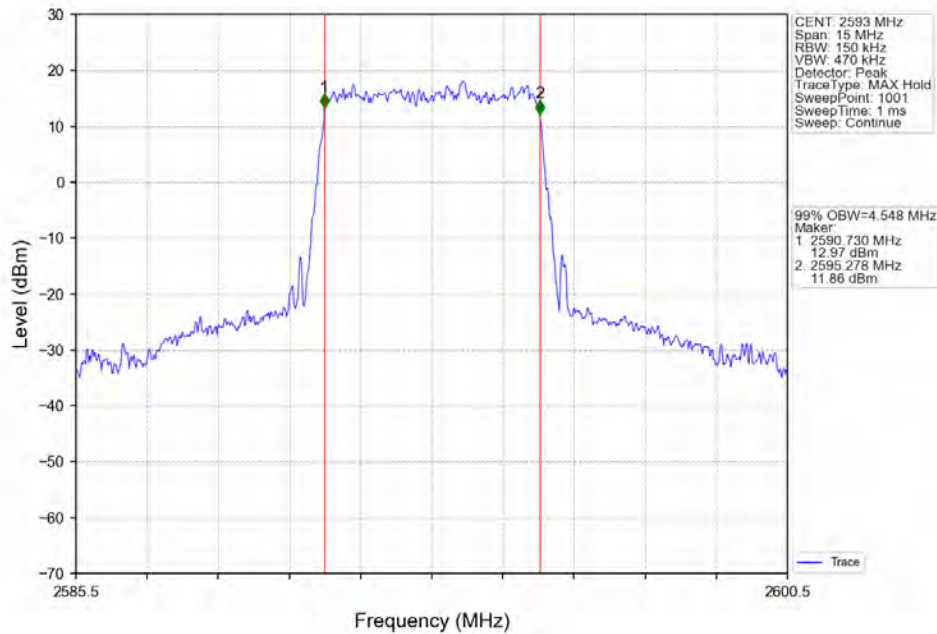
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Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV



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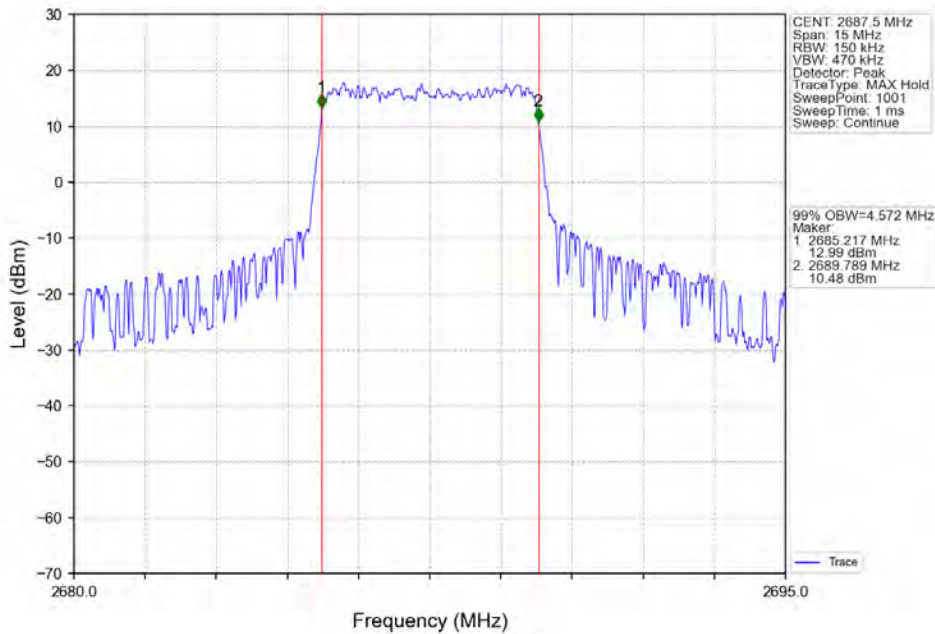
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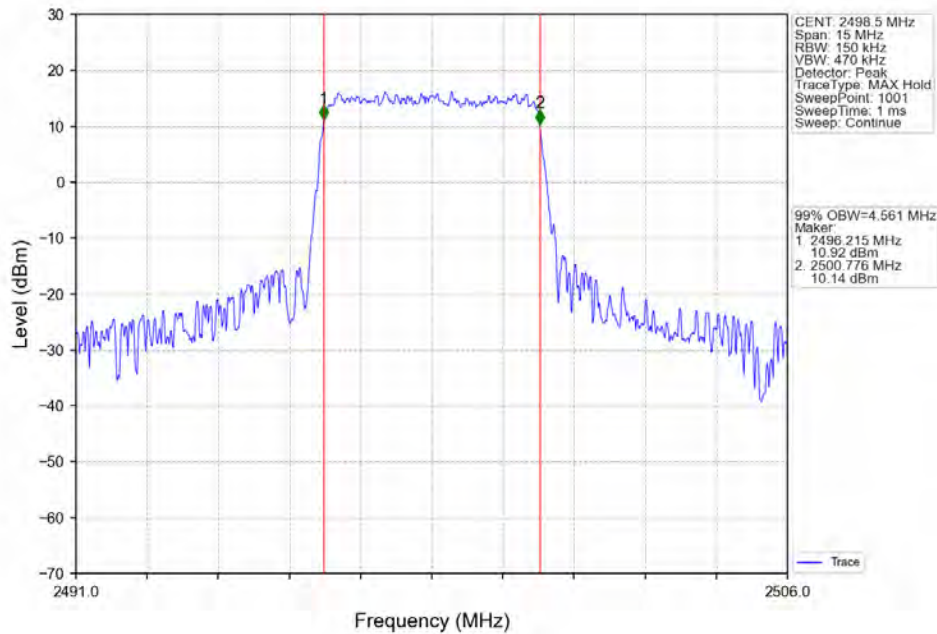
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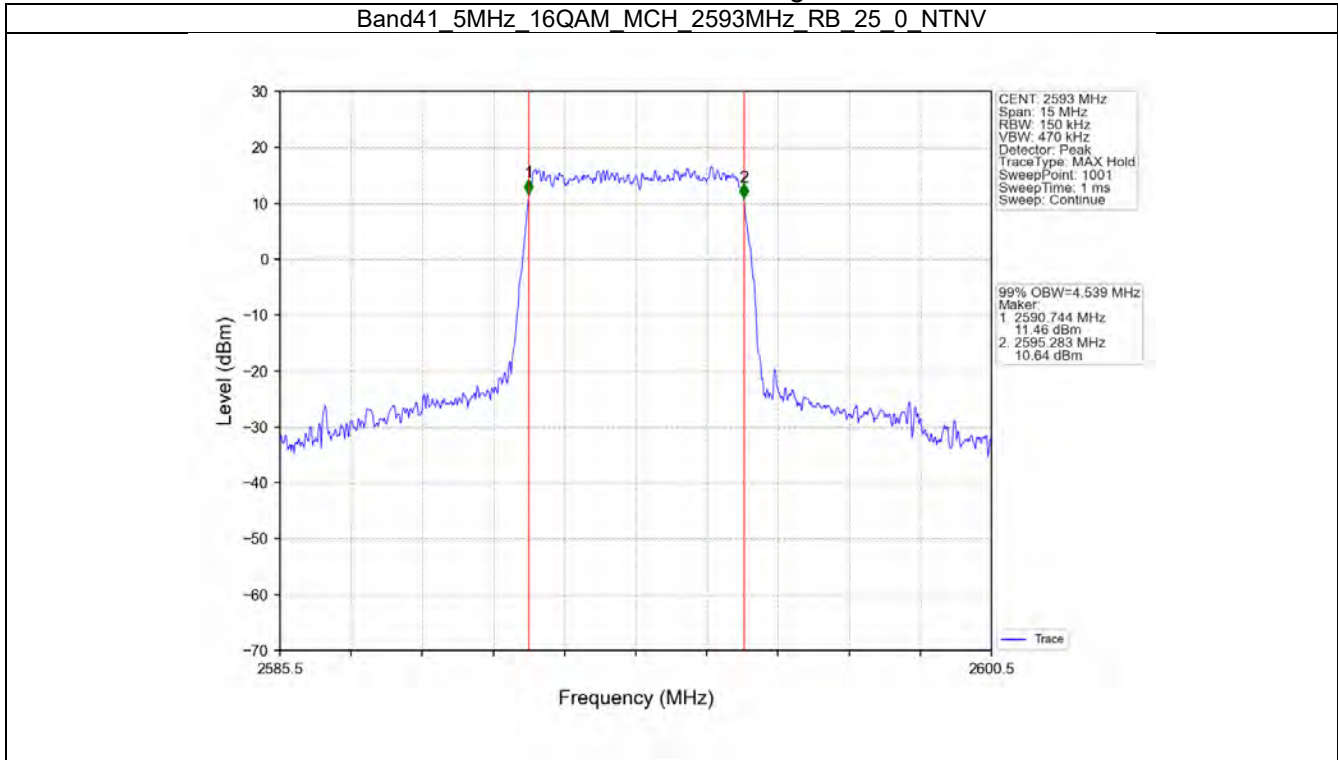
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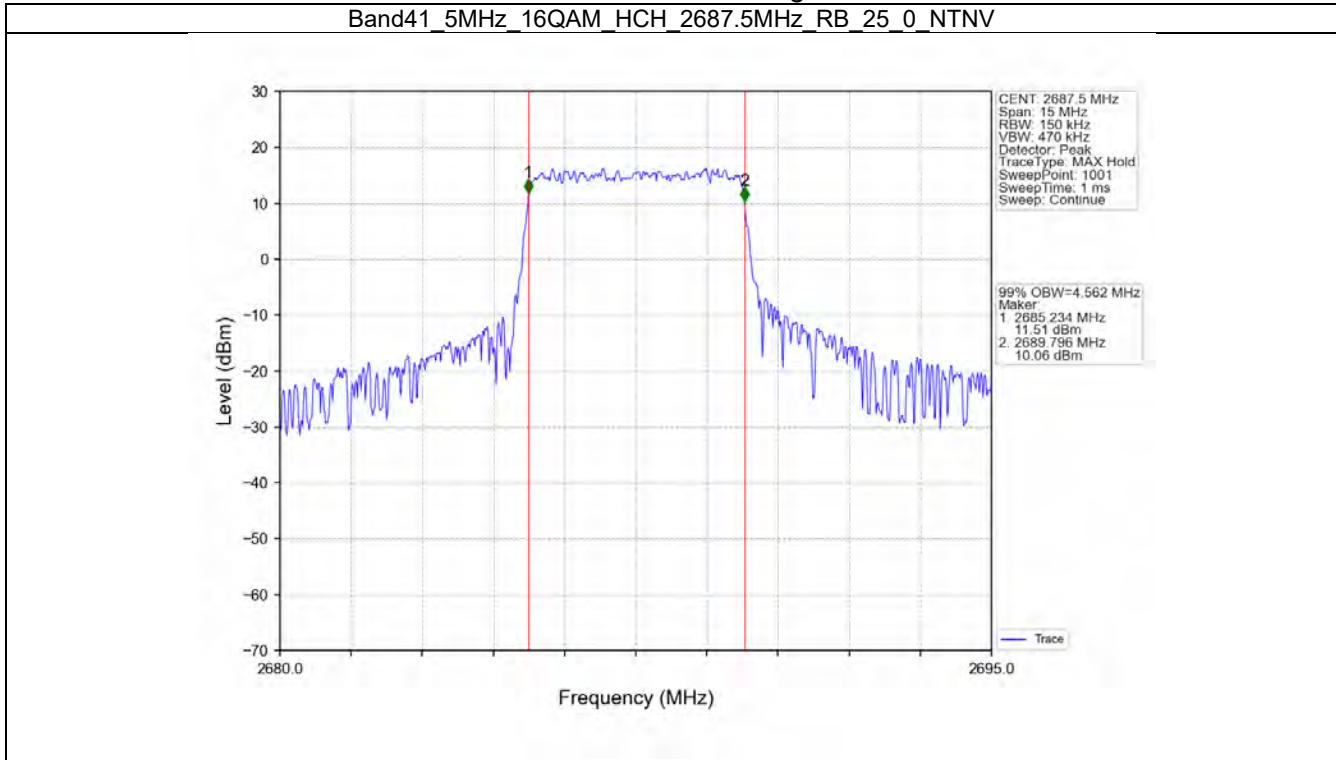
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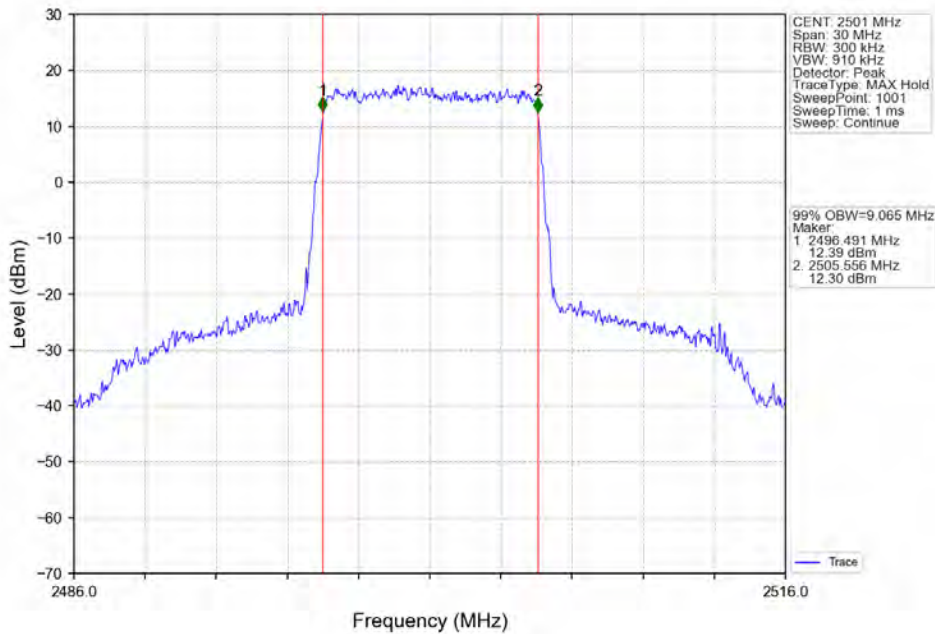
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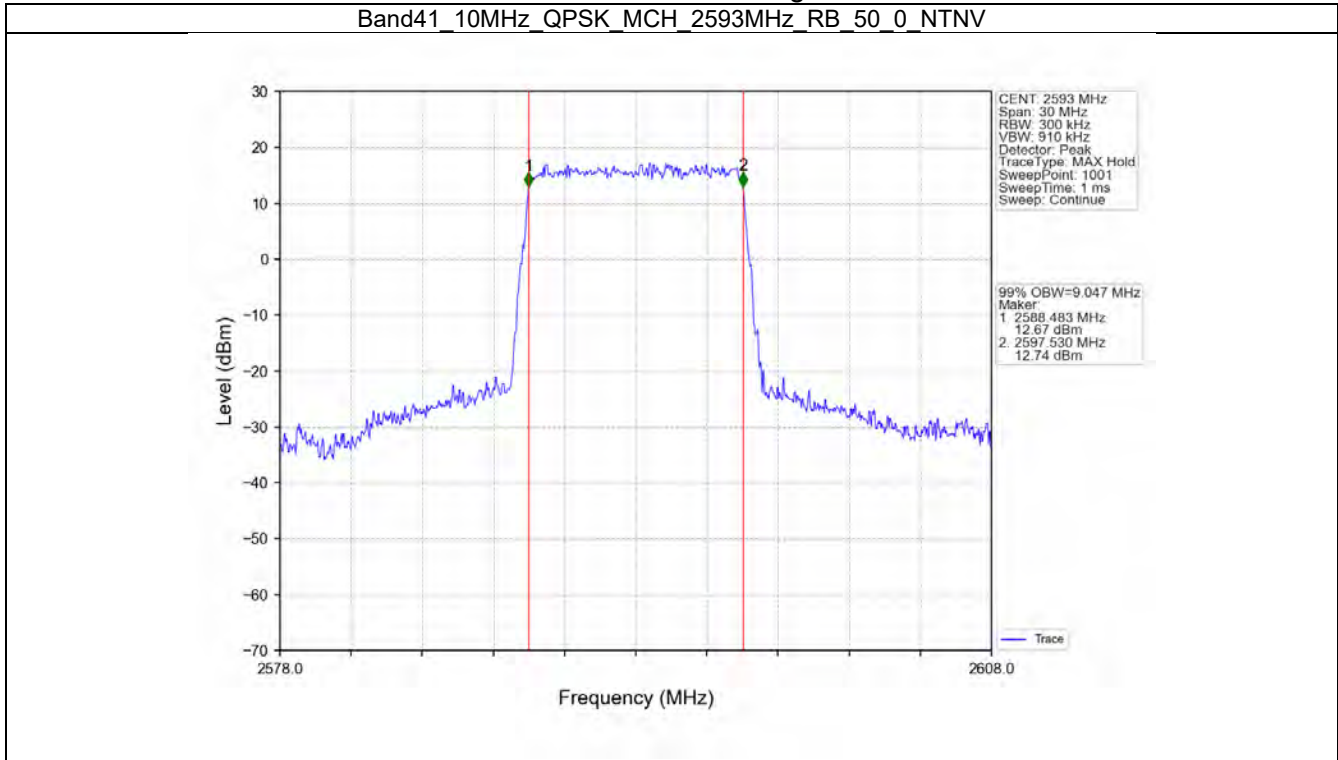
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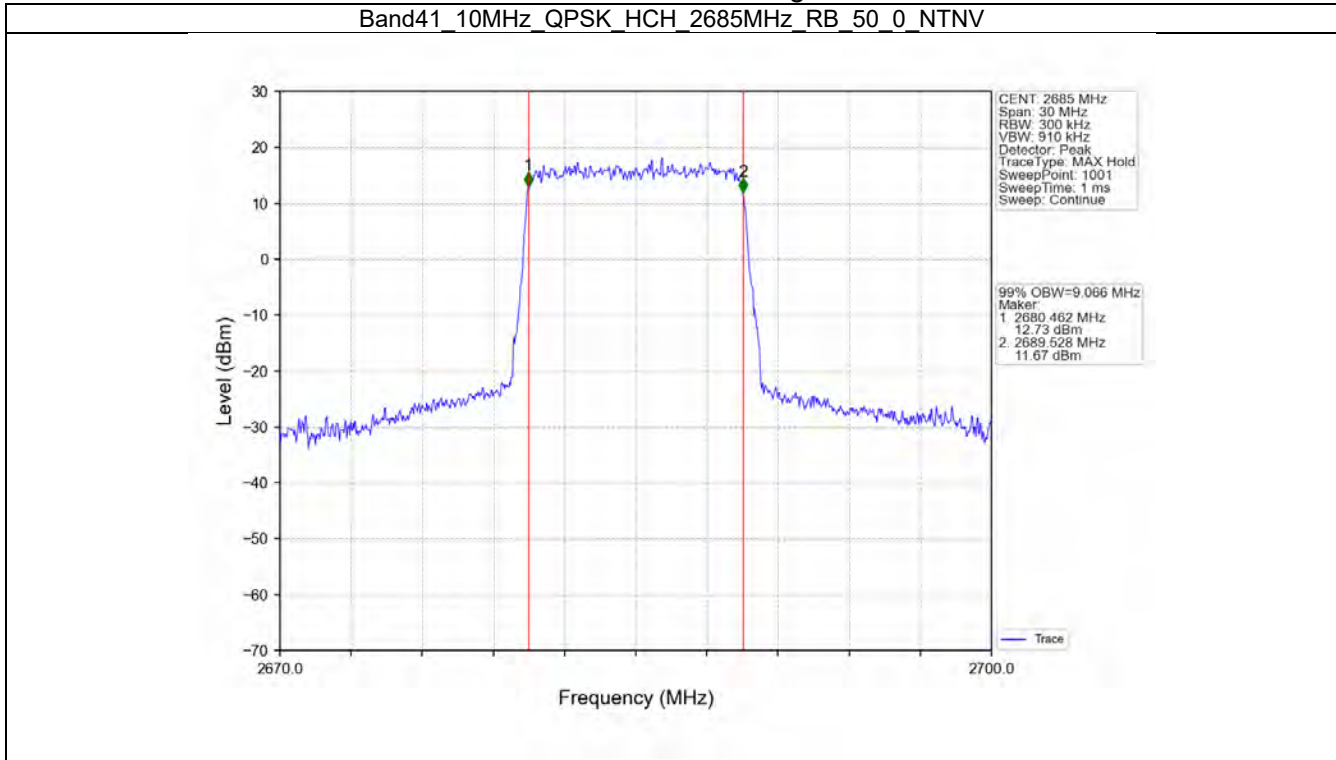
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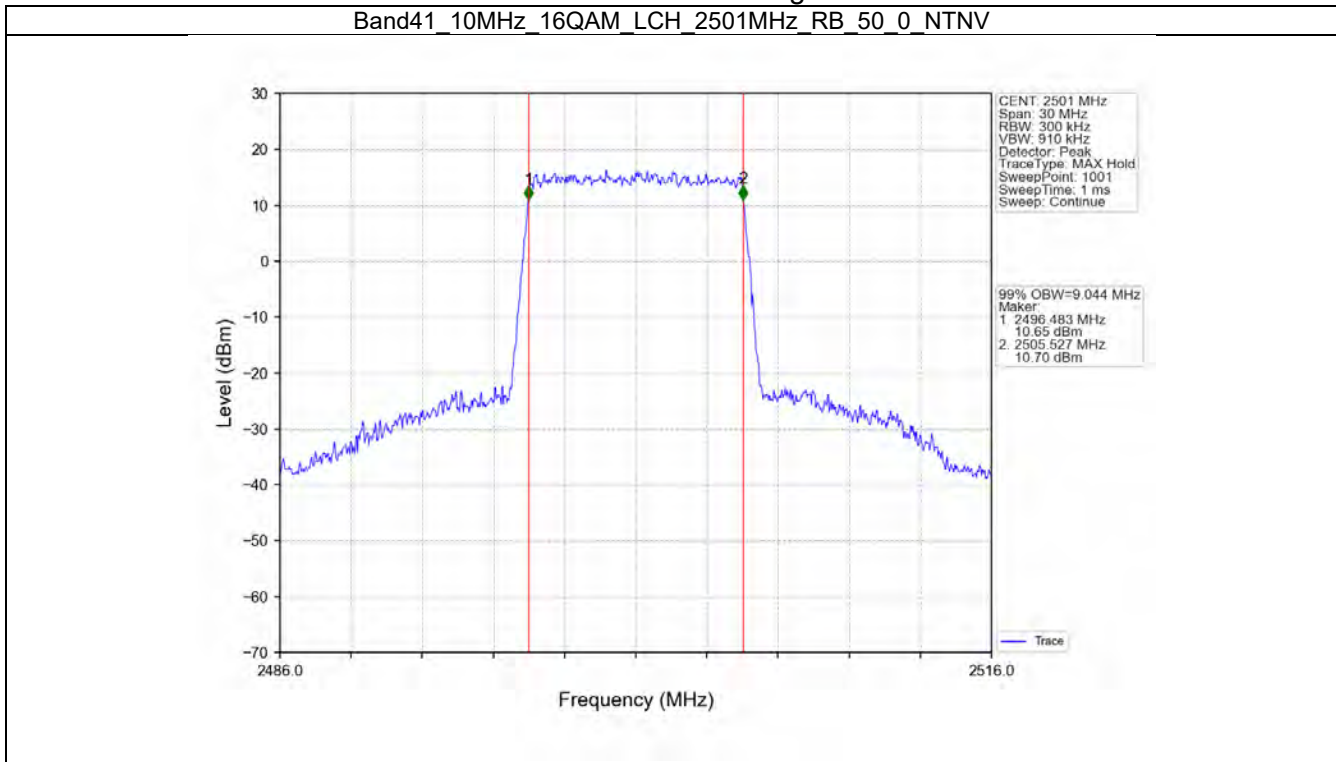
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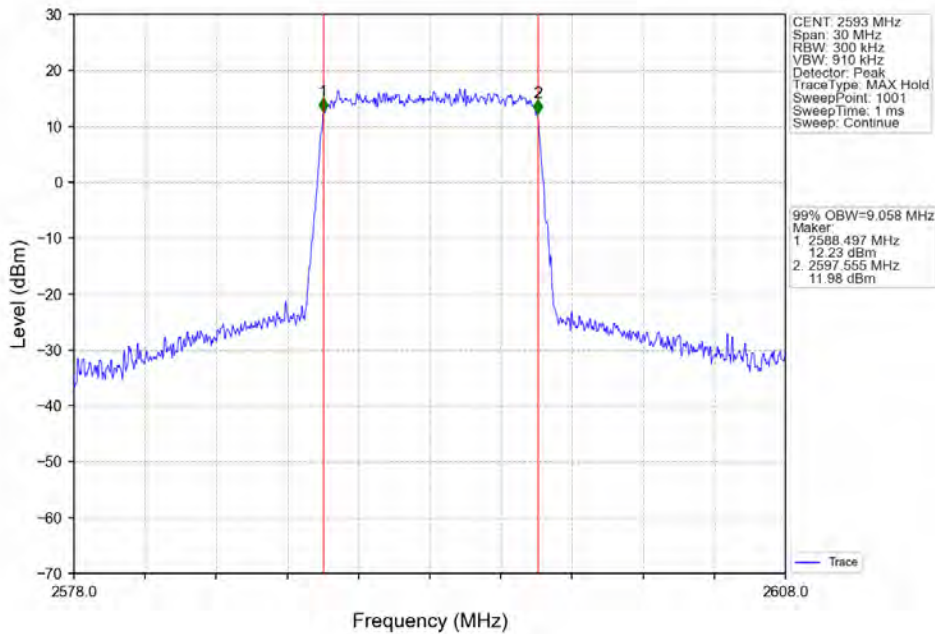
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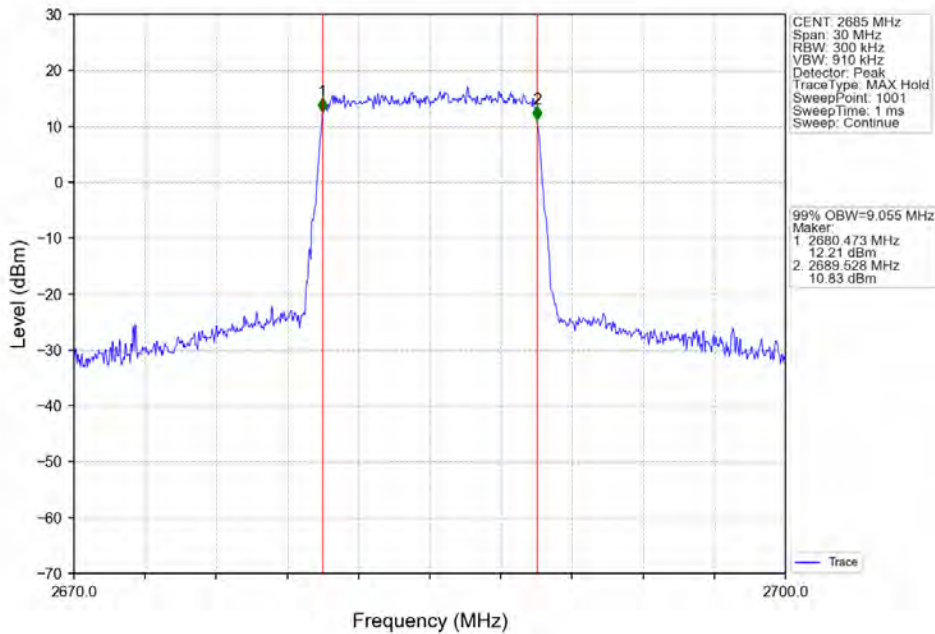
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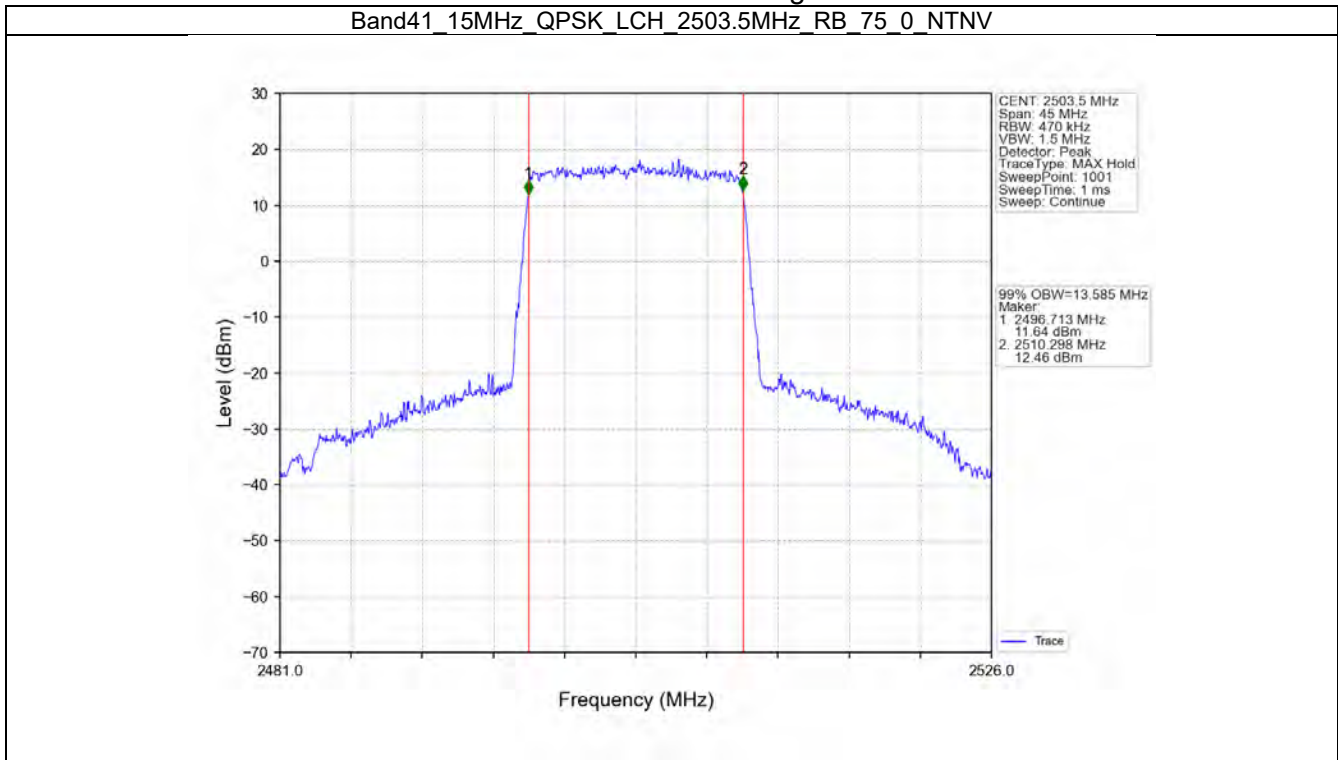
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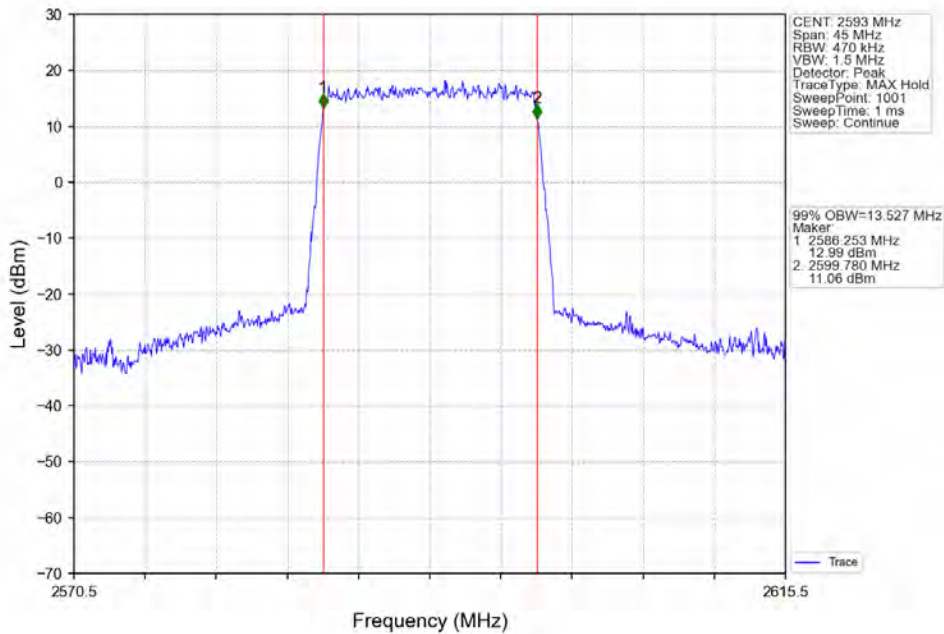
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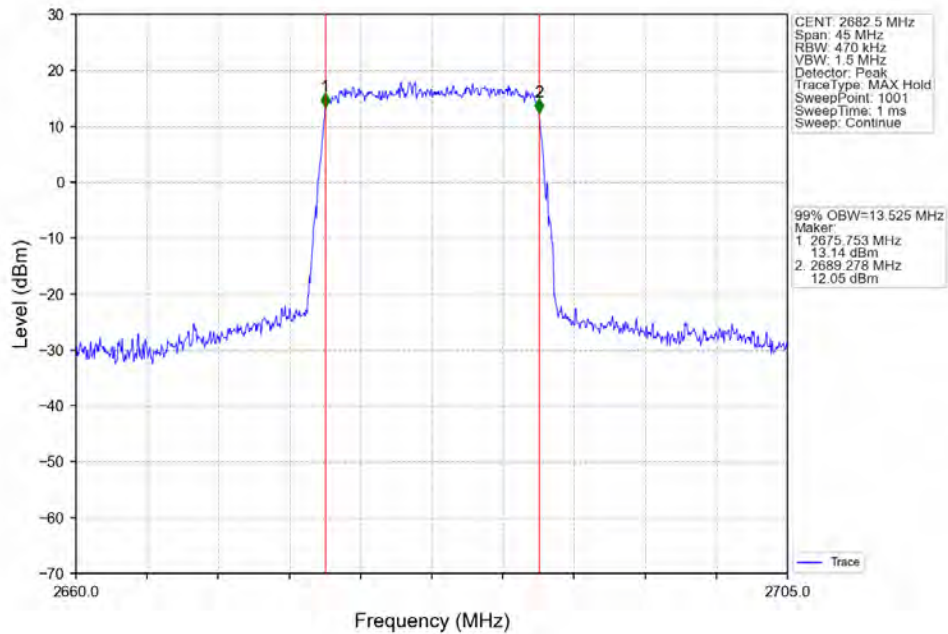
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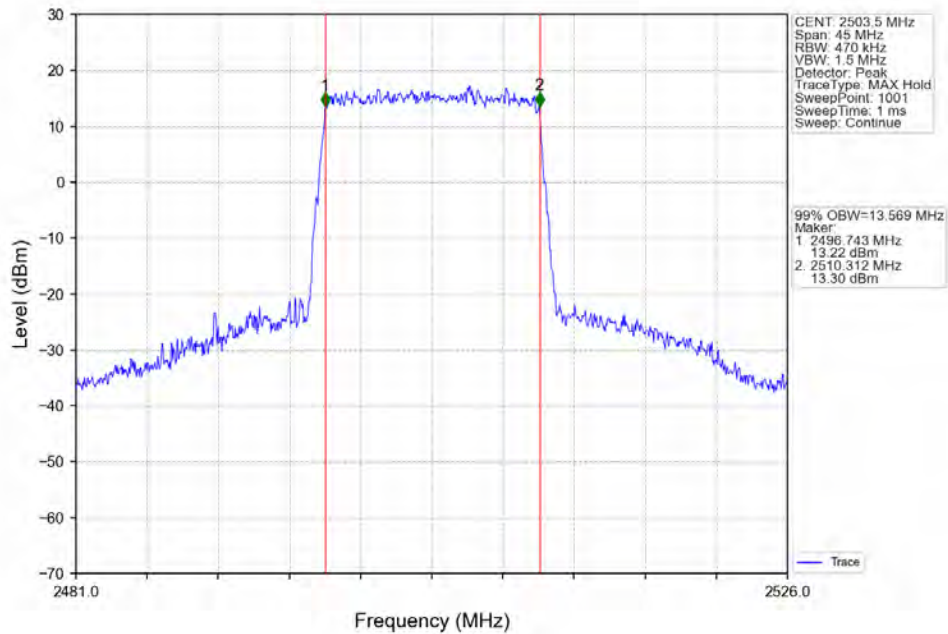
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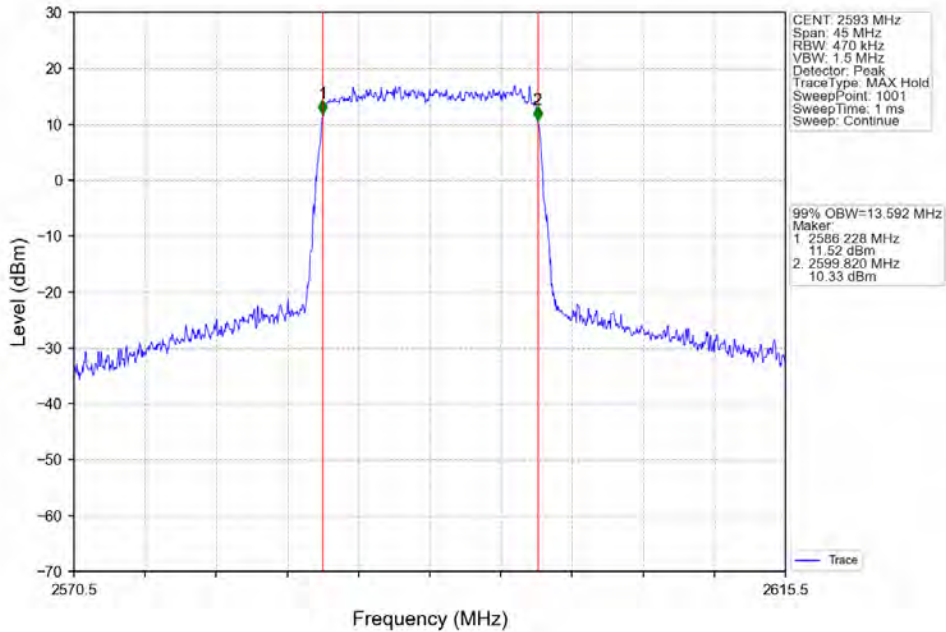
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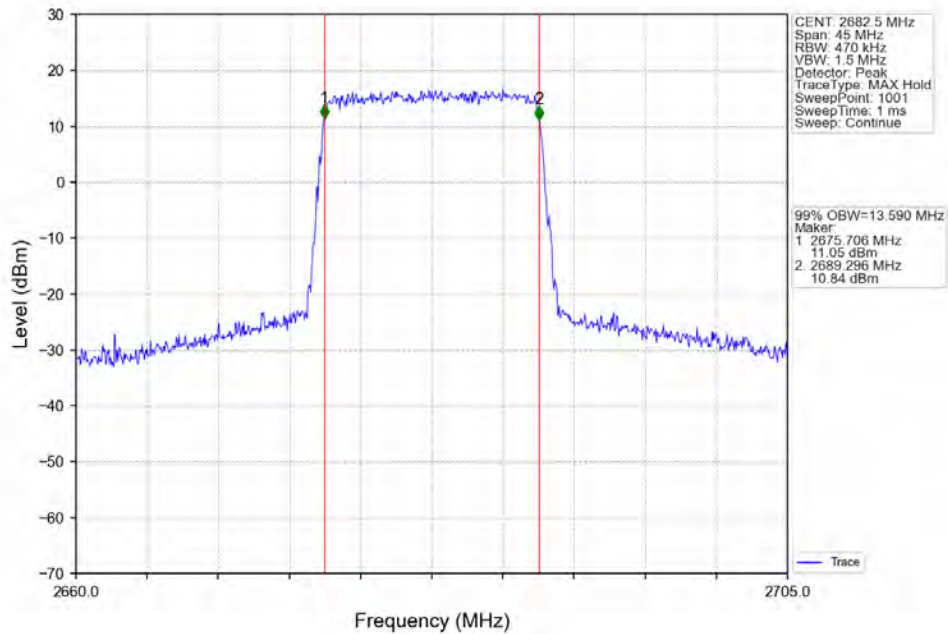
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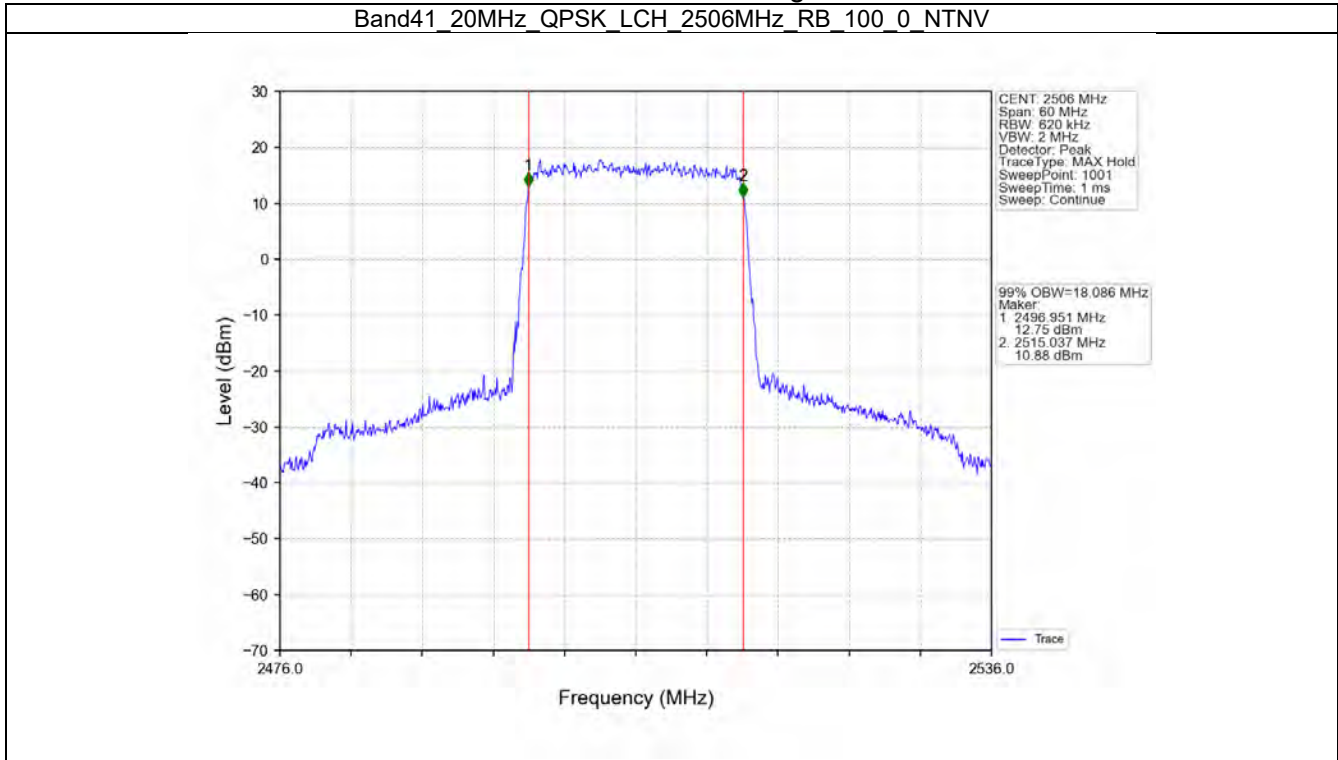
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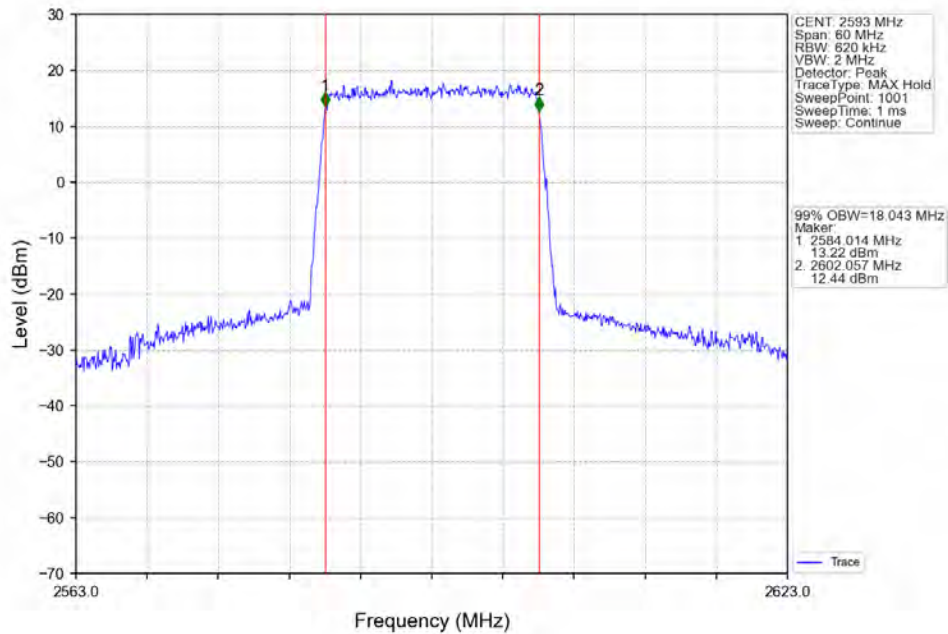
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Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



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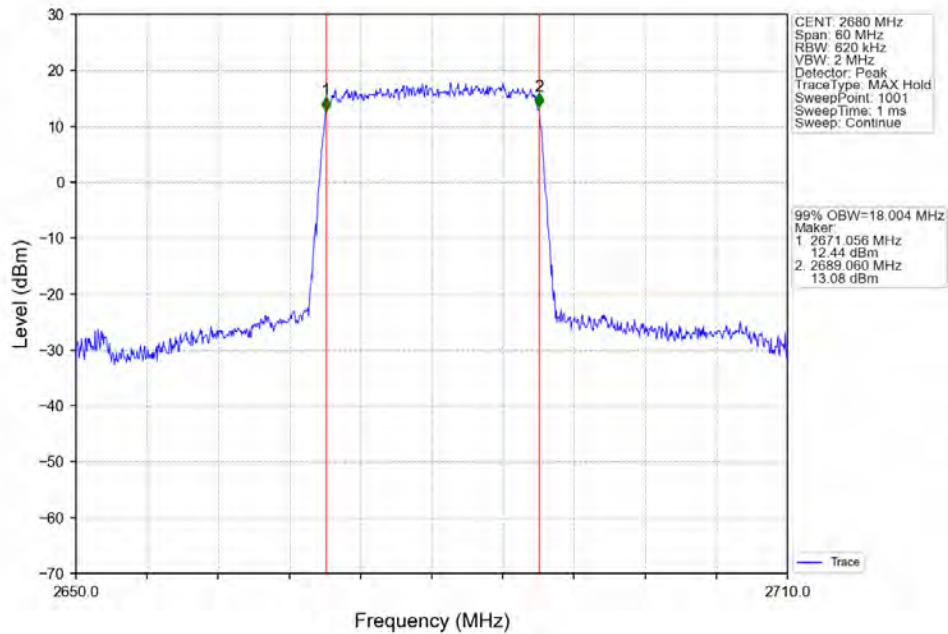
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Band41 20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



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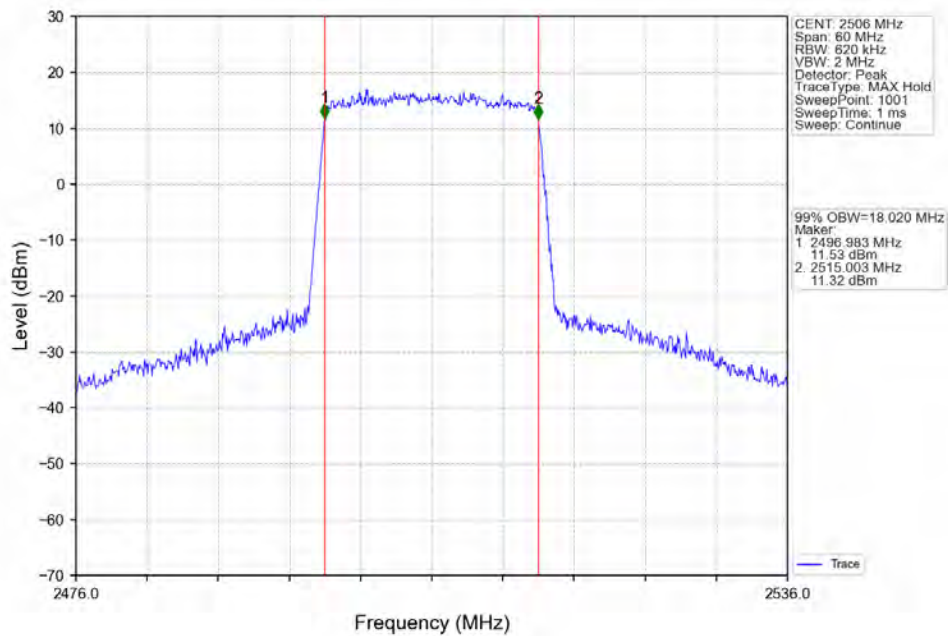
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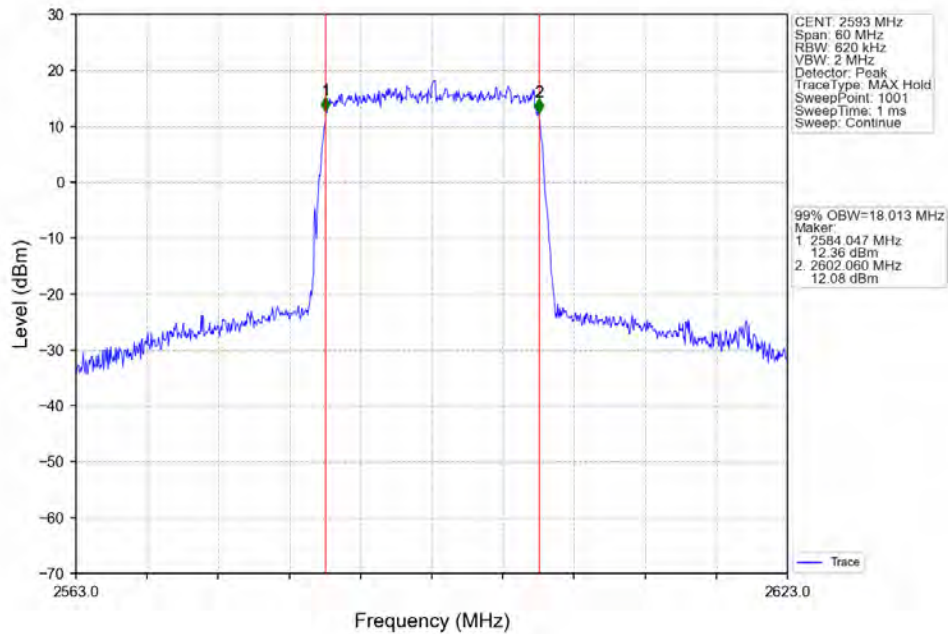
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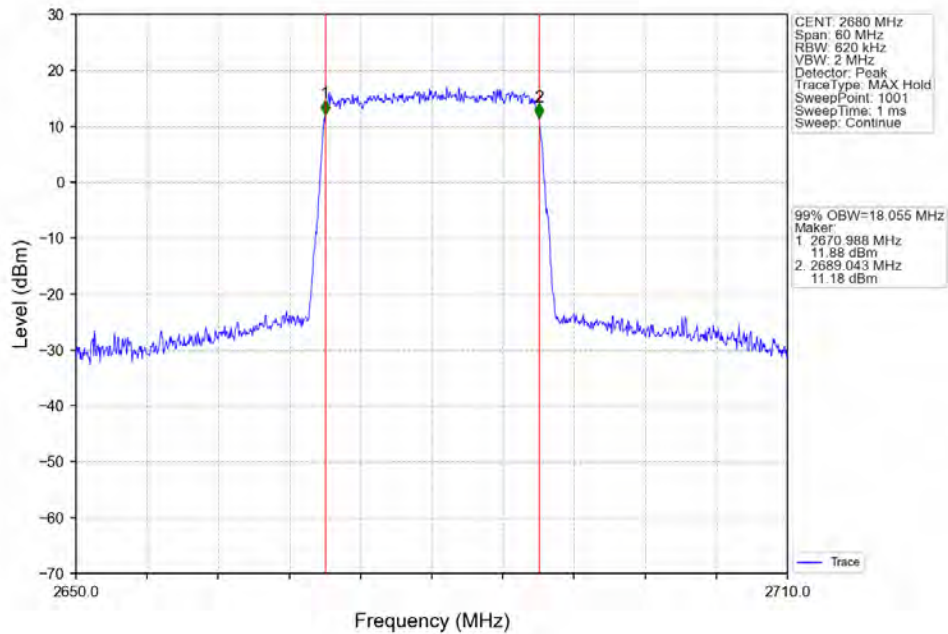
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3.2 Band41_XDB

3.2.1 Test Result

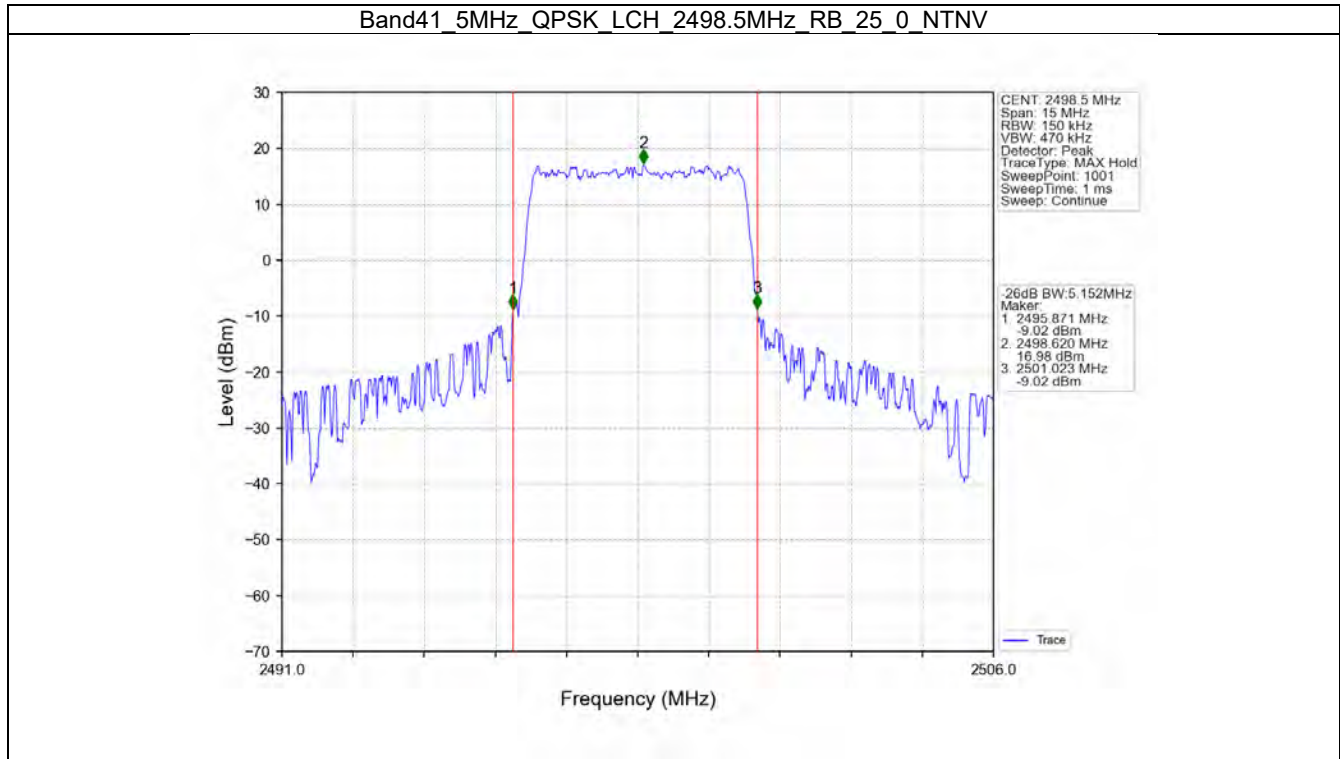
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	5.152	/	Pass
		2593	25	0	5.068	/	Pass
		2687.5	25	0	5.386	/	Pass
	16QAM	2498.5	25	0	5.142	/	Pass
		2593	25	0	5.034	/	Pass
		2687.5	25	0	5.573	/	Pass
10	QPSK	2501	50	0	9.967	/	Pass
		2593	50	0	9.968	/	Pass
		2685	50	0	9.863	/	Pass
	16QAM	2501	50	0	9.970	/	Pass
		2593	50	0	9.917	/	Pass
		2685	50	0	9.943	/	Pass
15	QPSK	2503.5	75	0	14.902	/	Pass
		2593	75	0	14.903	/	Pass
		2682.5	75	0	15.010	/	Pass
	16QAM	2503.5	75	0	14.903	/	Pass
		2593	75	0	14.900	/	Pass
		2682.5	75	0	14.920	/	Pass
20	QPSK	2506	100	0	19.775	/	Pass
		2593	100	0	19.751	/	Pass
		2680	100	0	19.644	/	Pass
	16QAM	2506	100	0	19.687	/	Pass
		2593	100	0	19.760	/	Pass
		2680	100	0	19.685	/	Pass



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3.2.2 Test Graph



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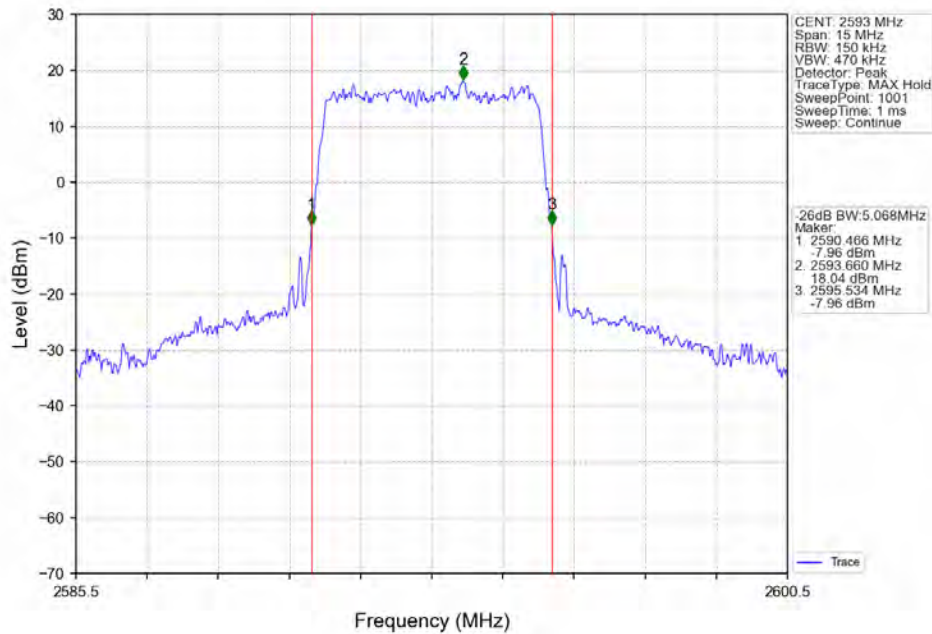
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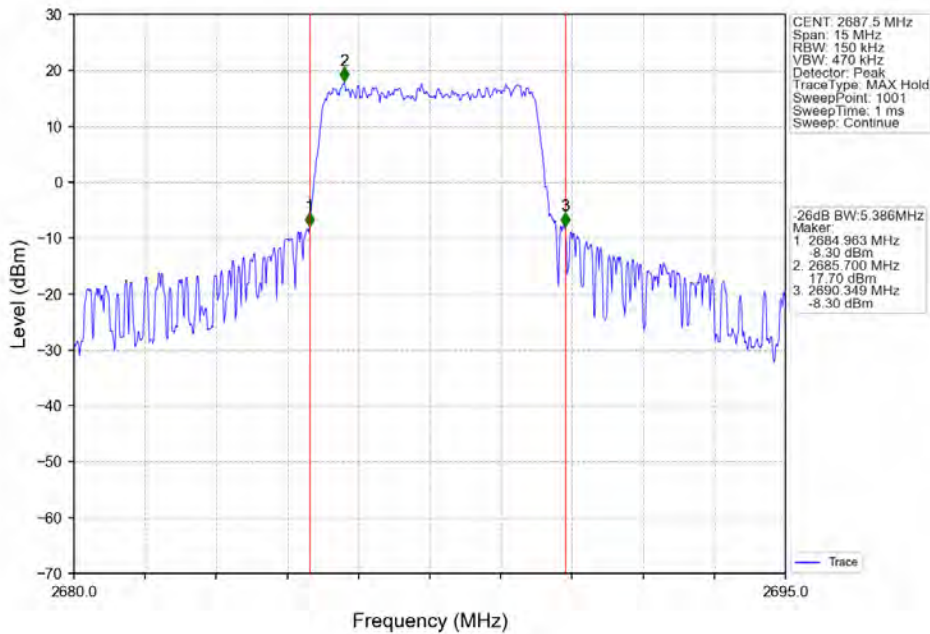


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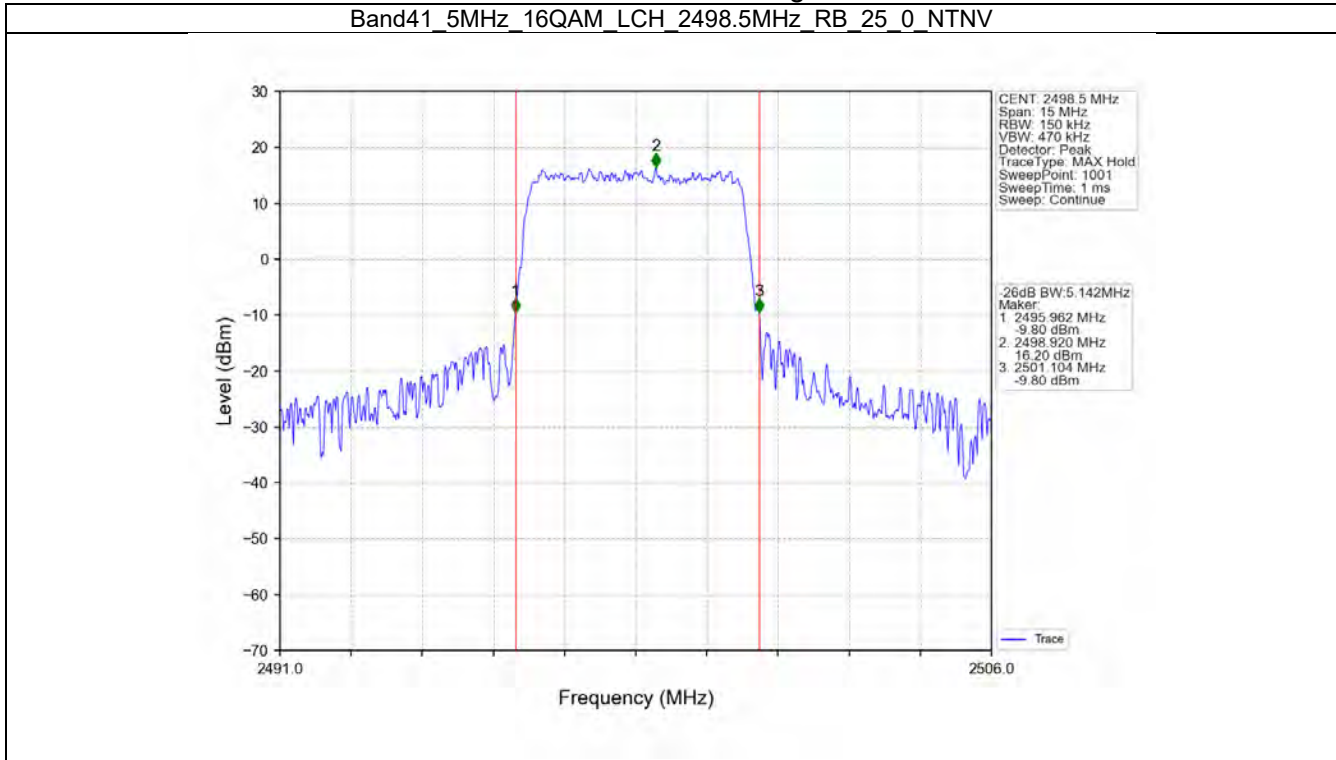
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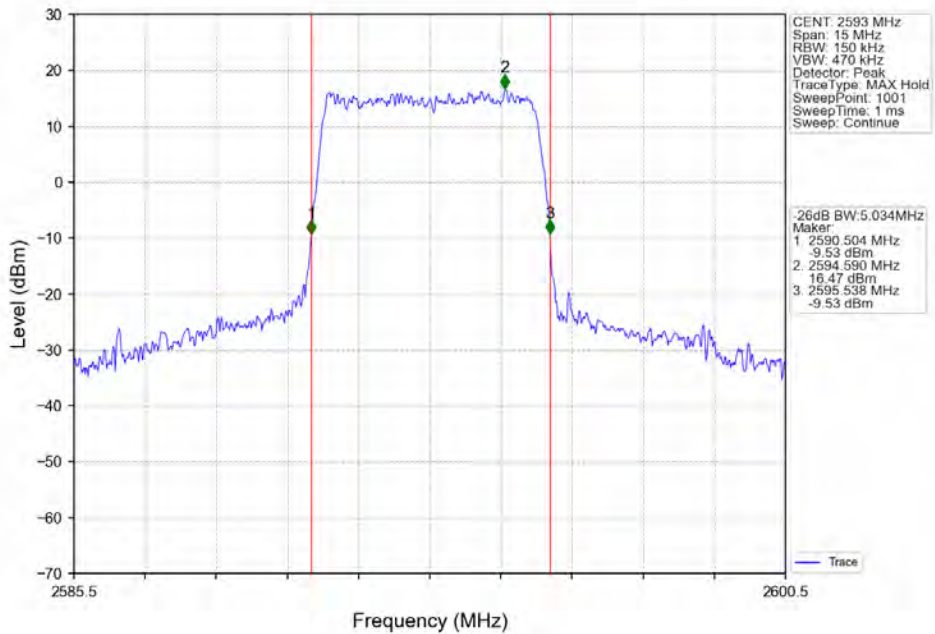
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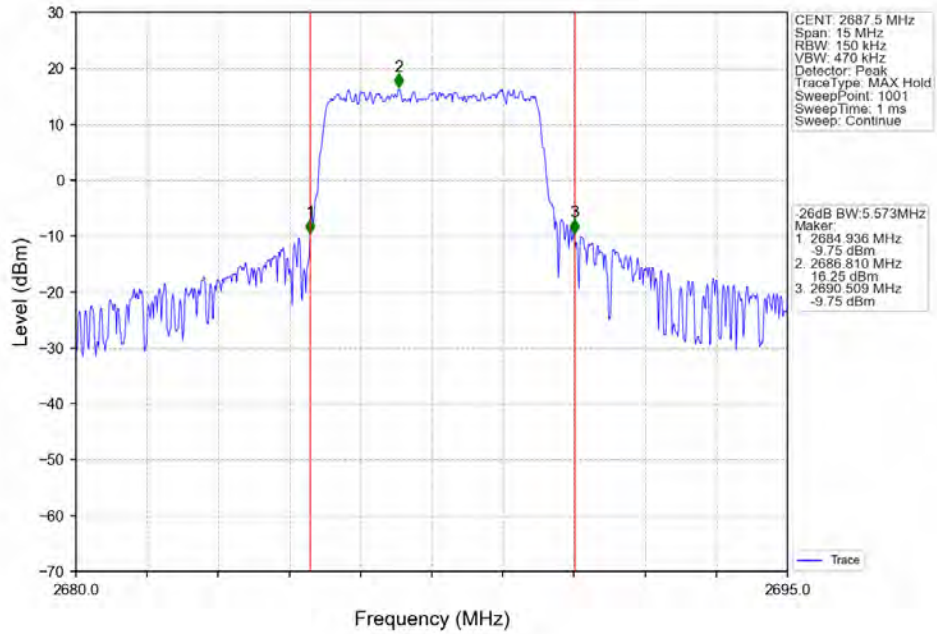
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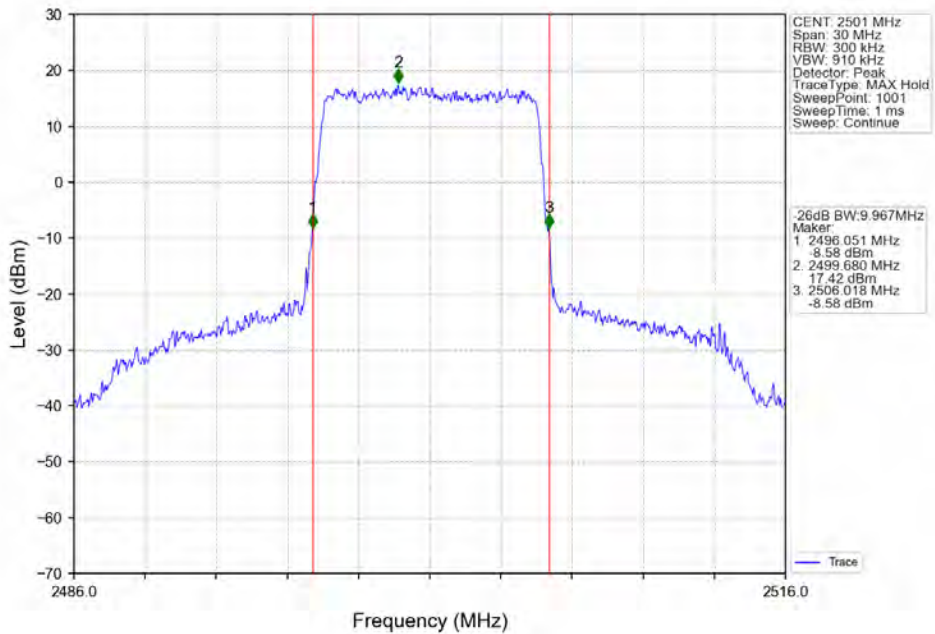


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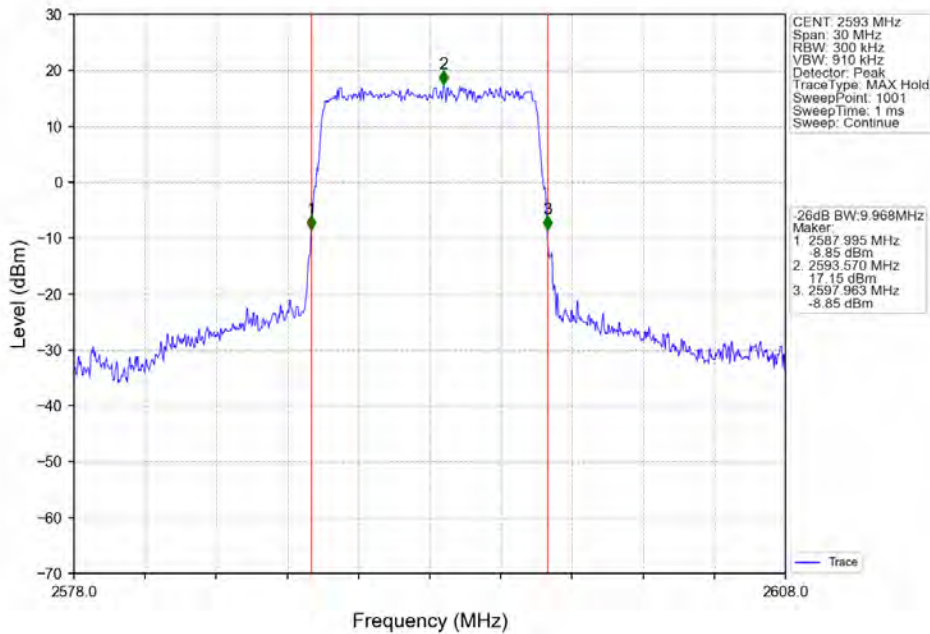
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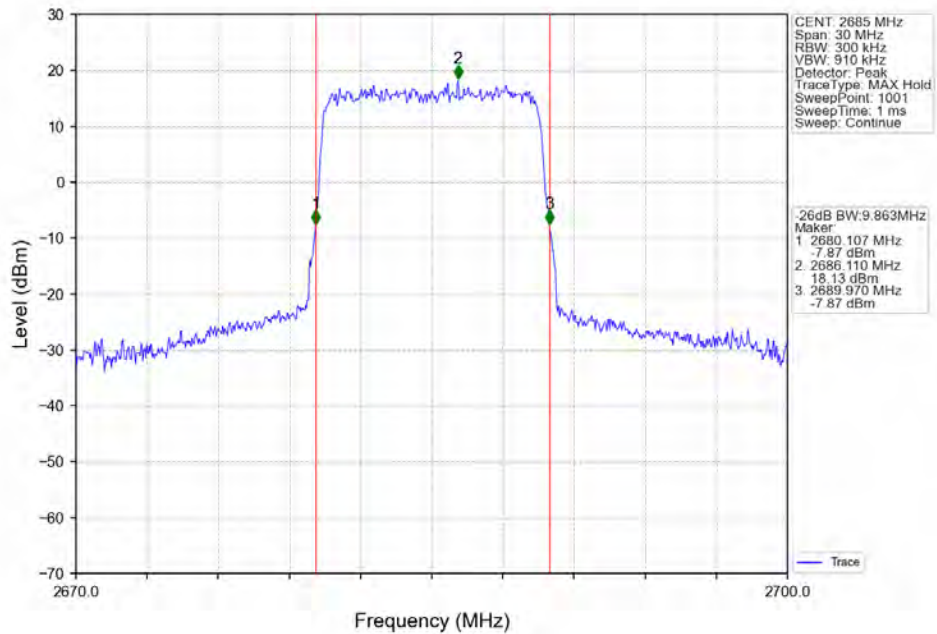
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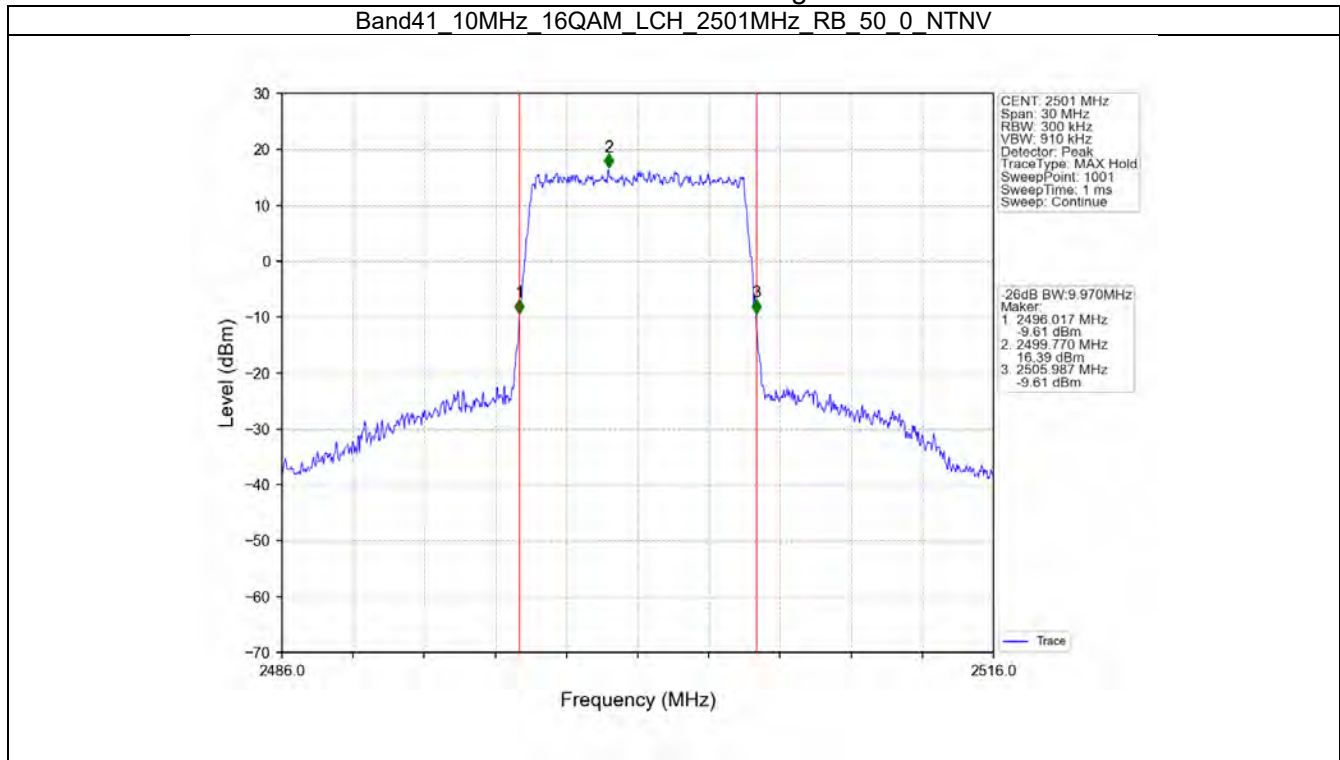
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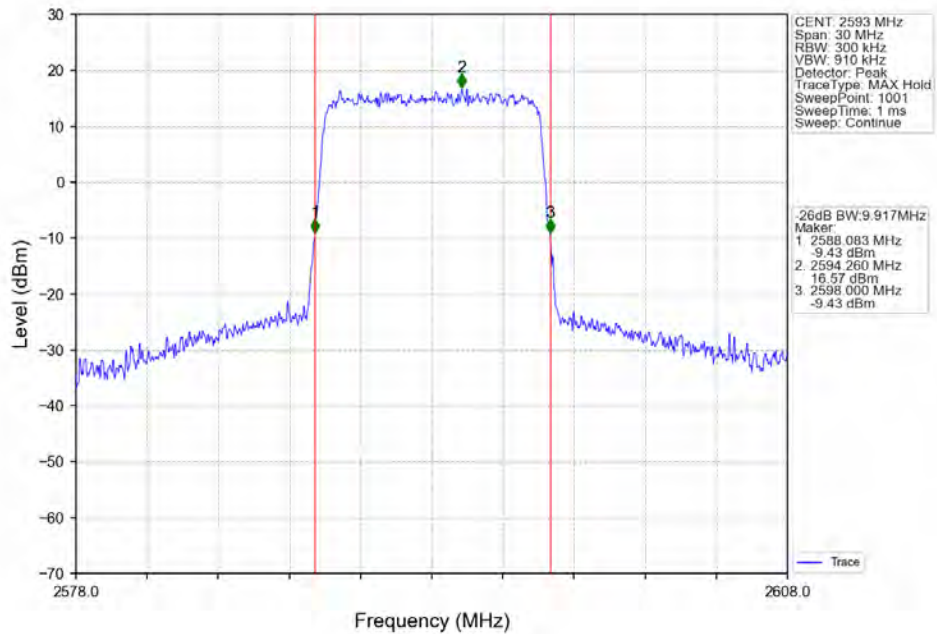
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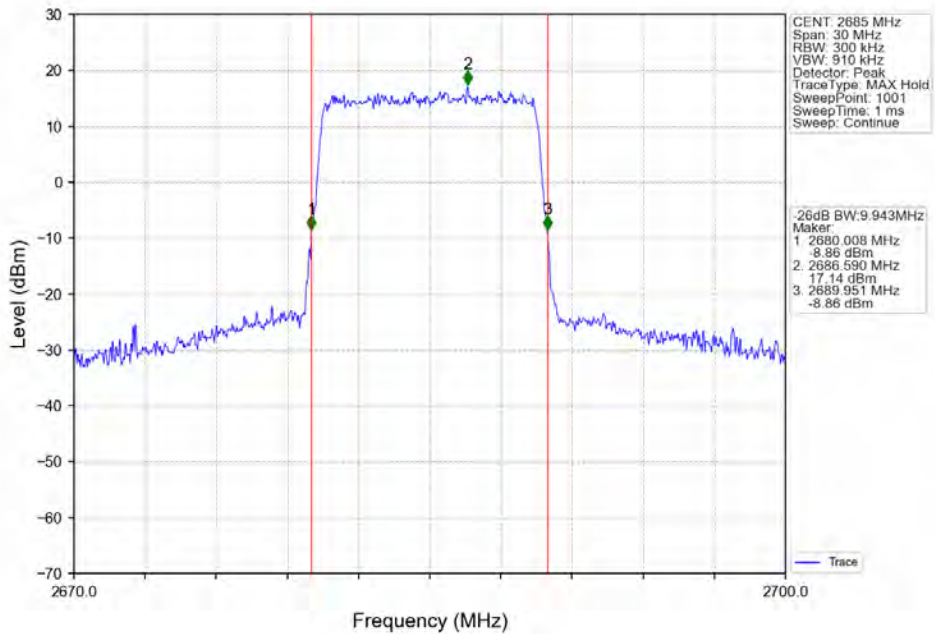
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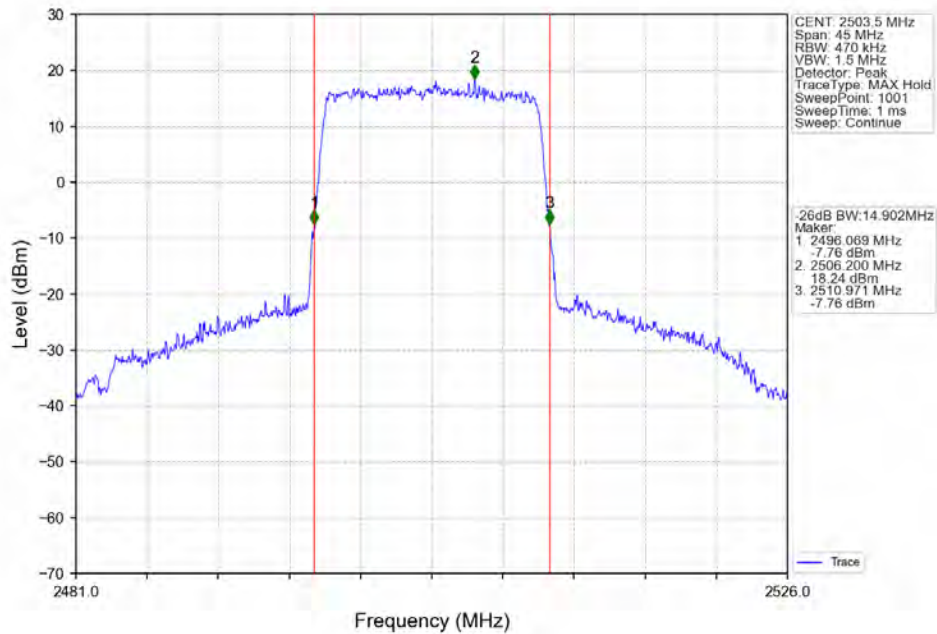
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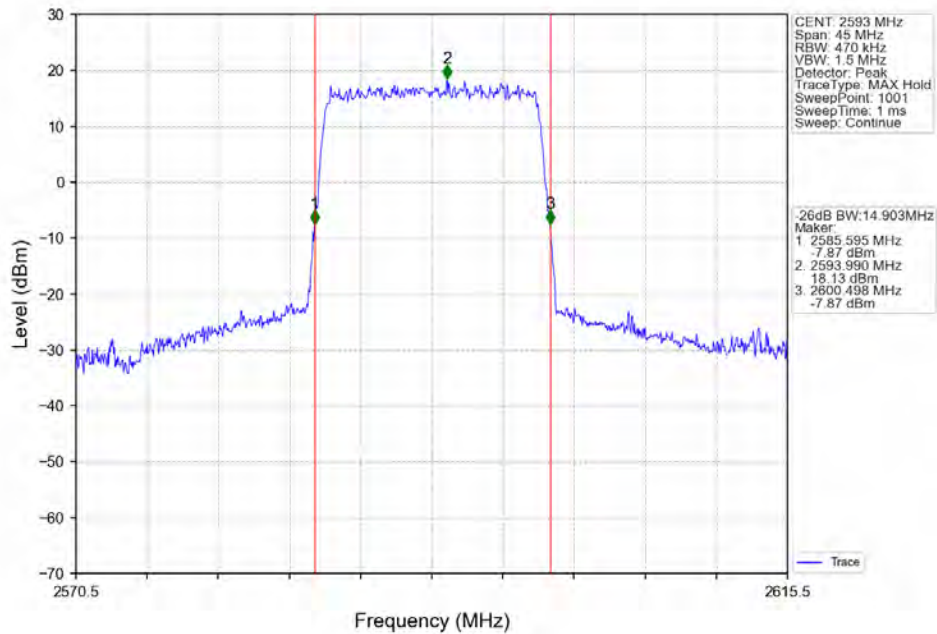
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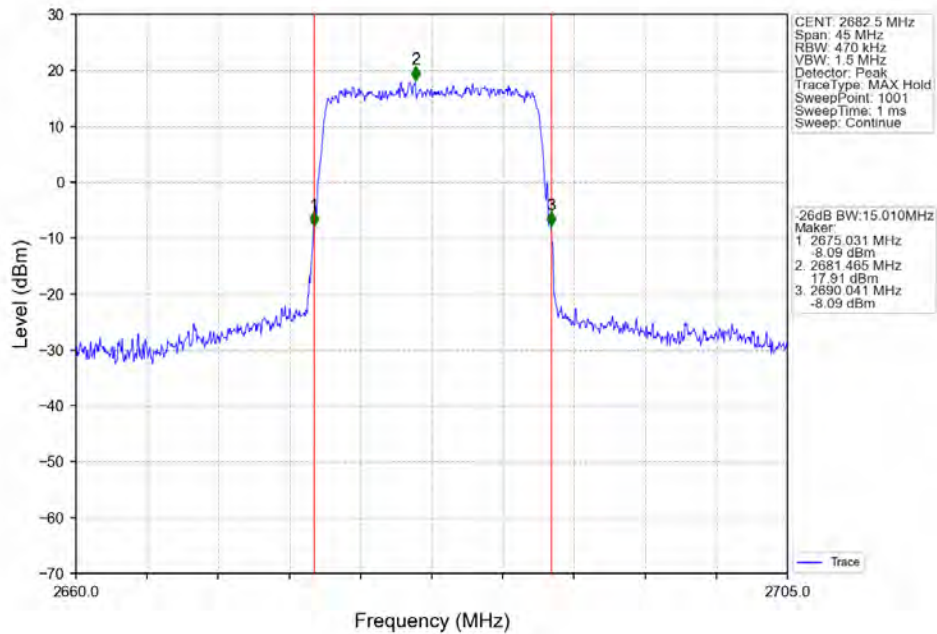
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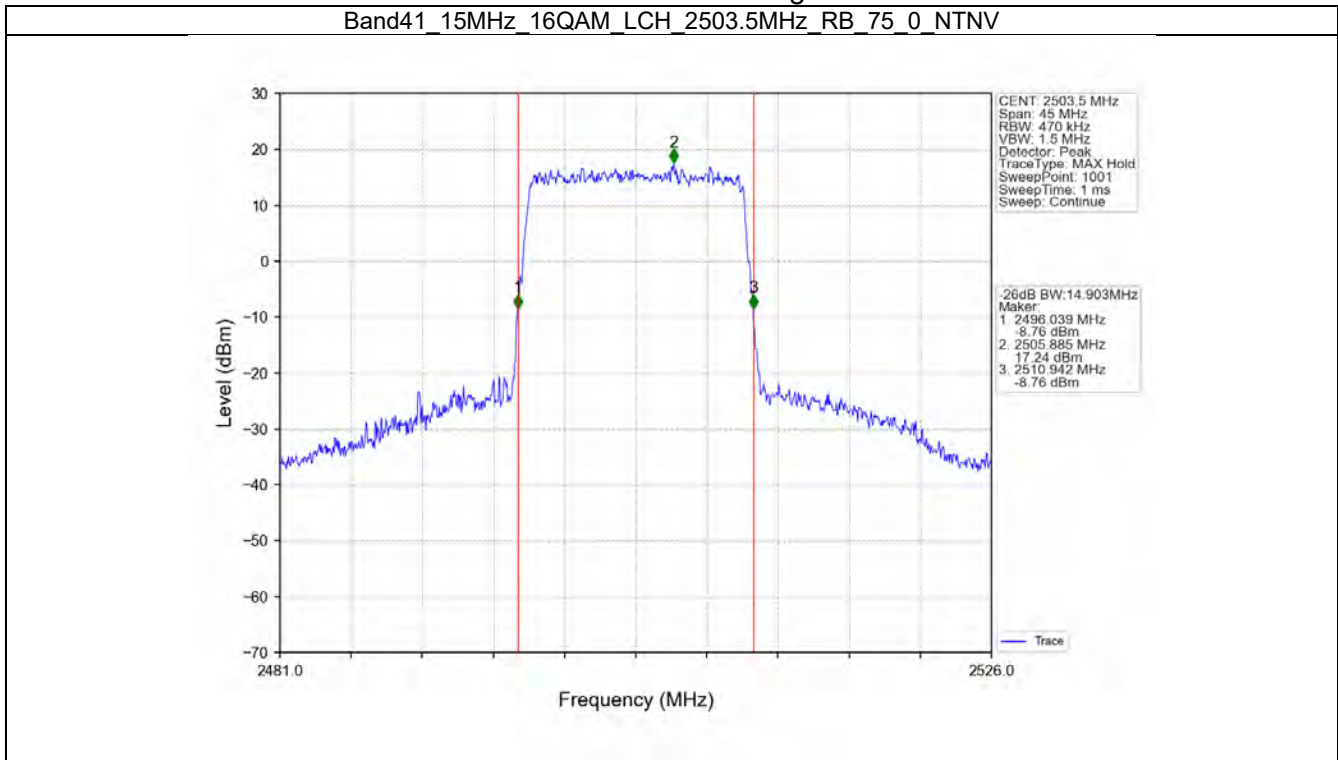
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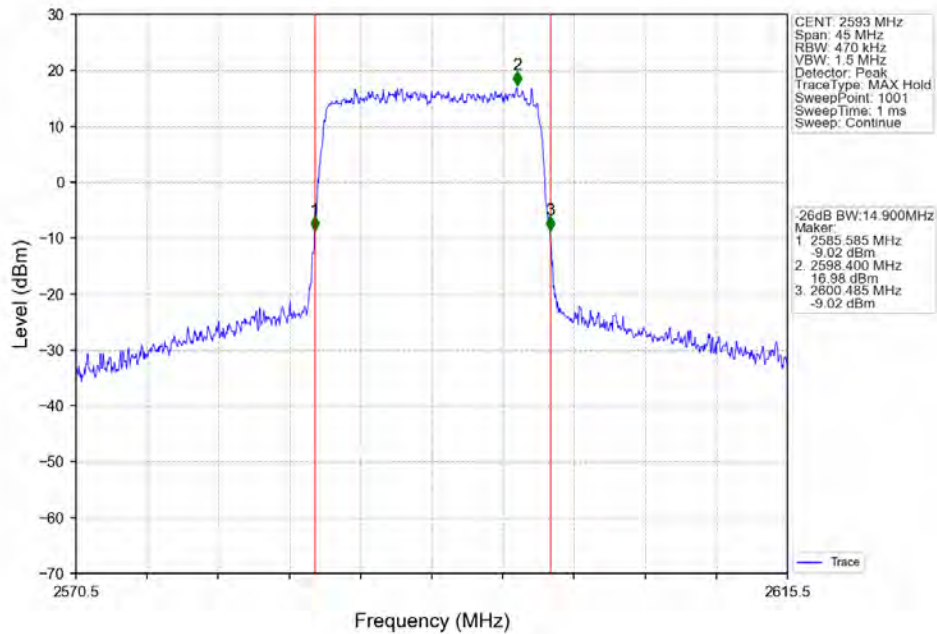
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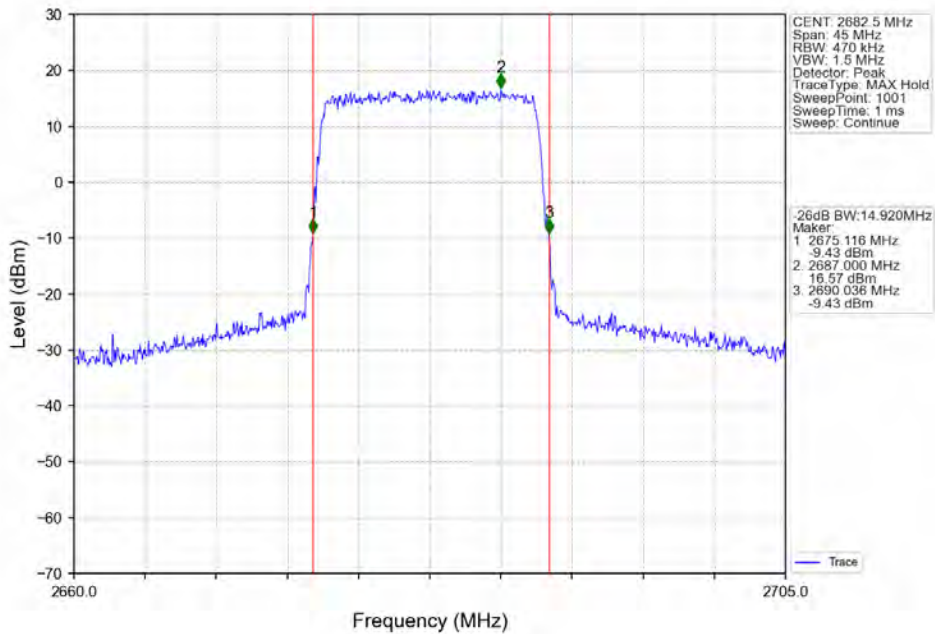
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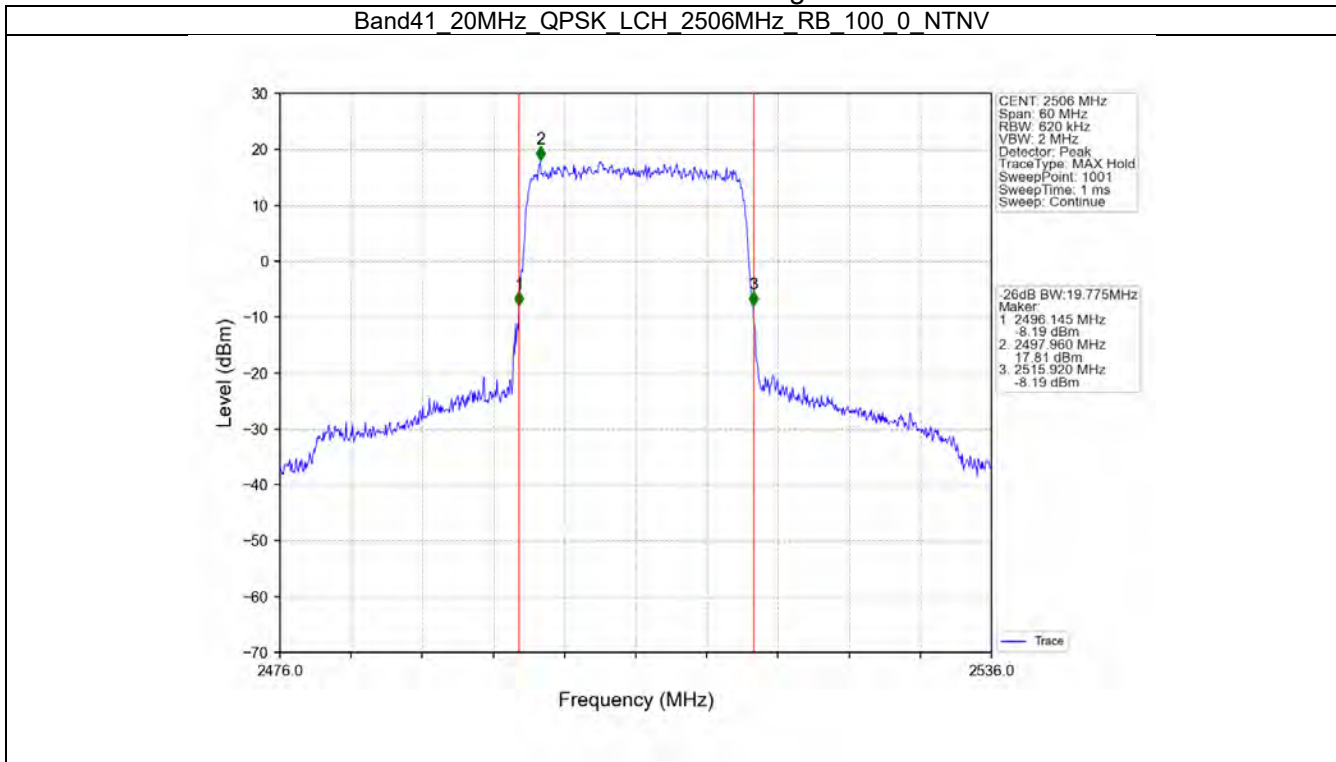
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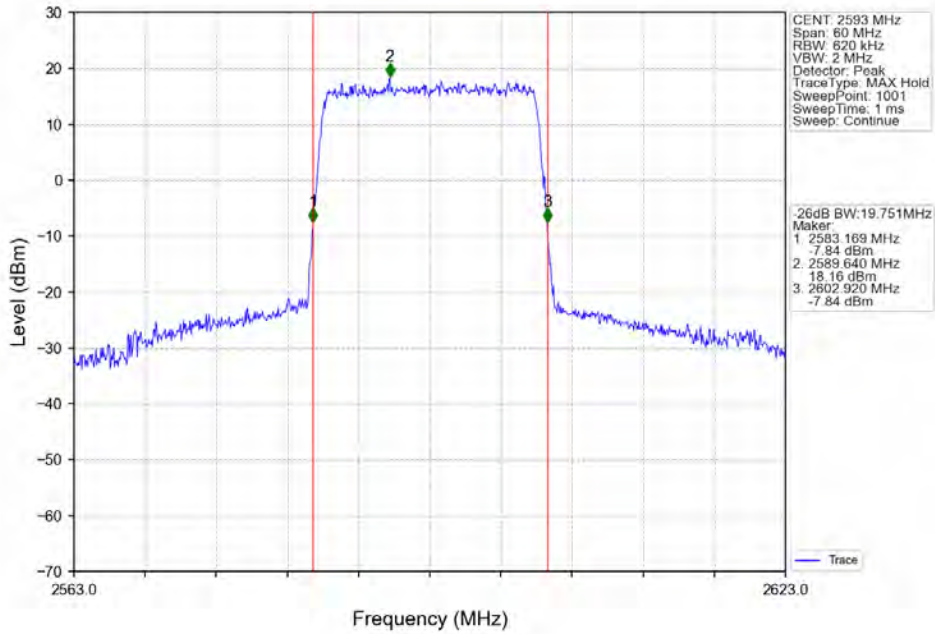
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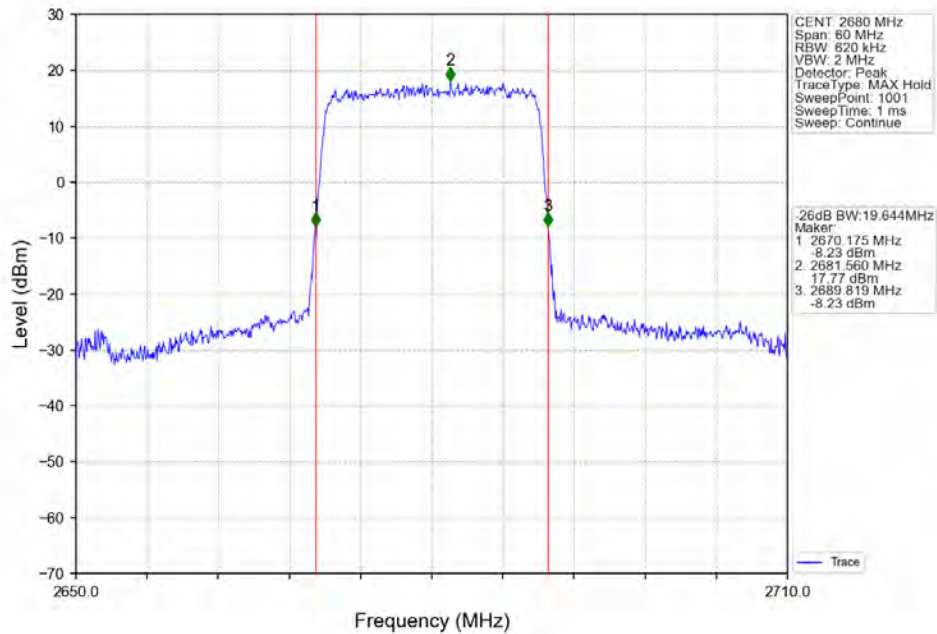
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Band41 20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



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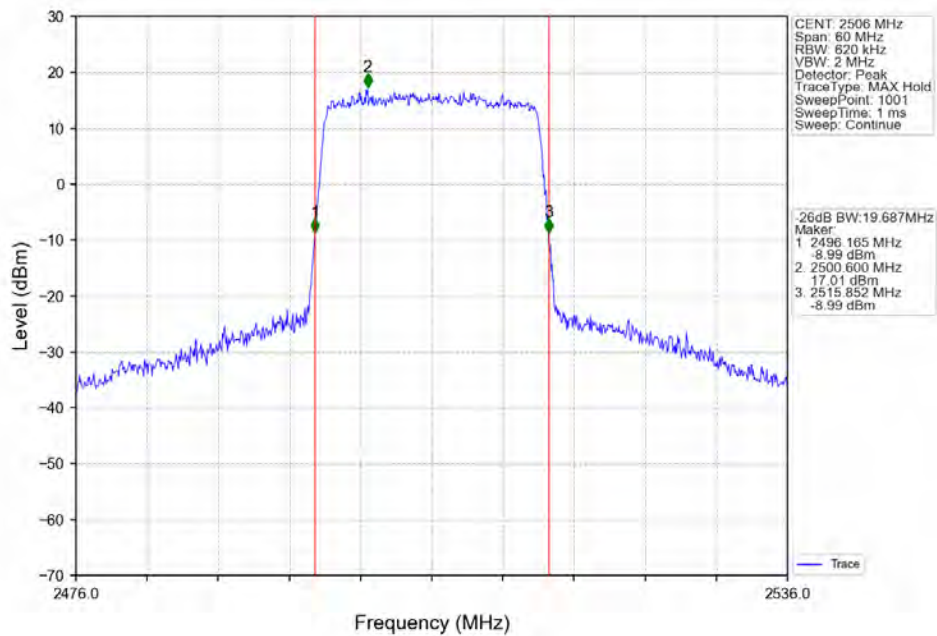
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Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV



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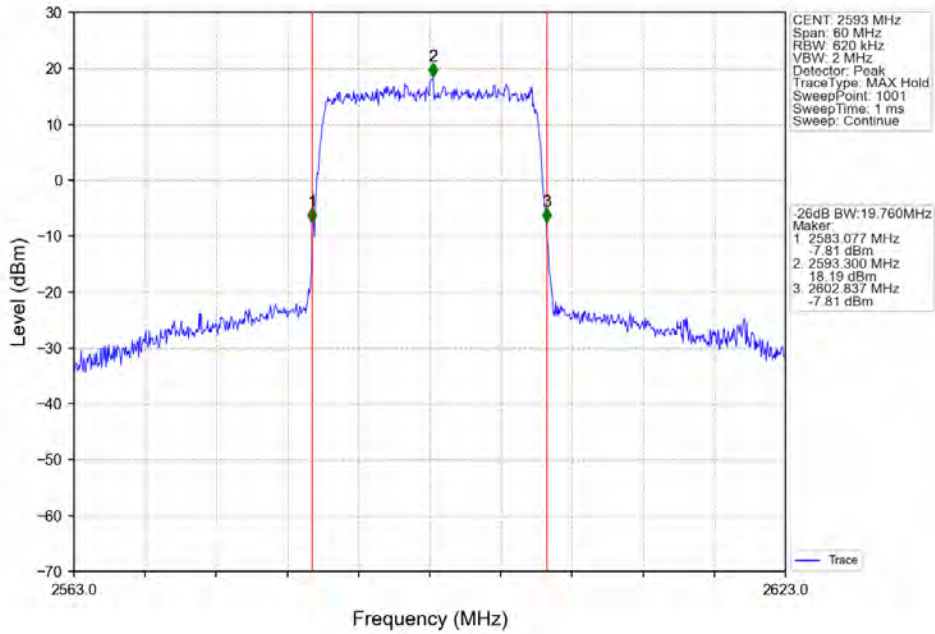
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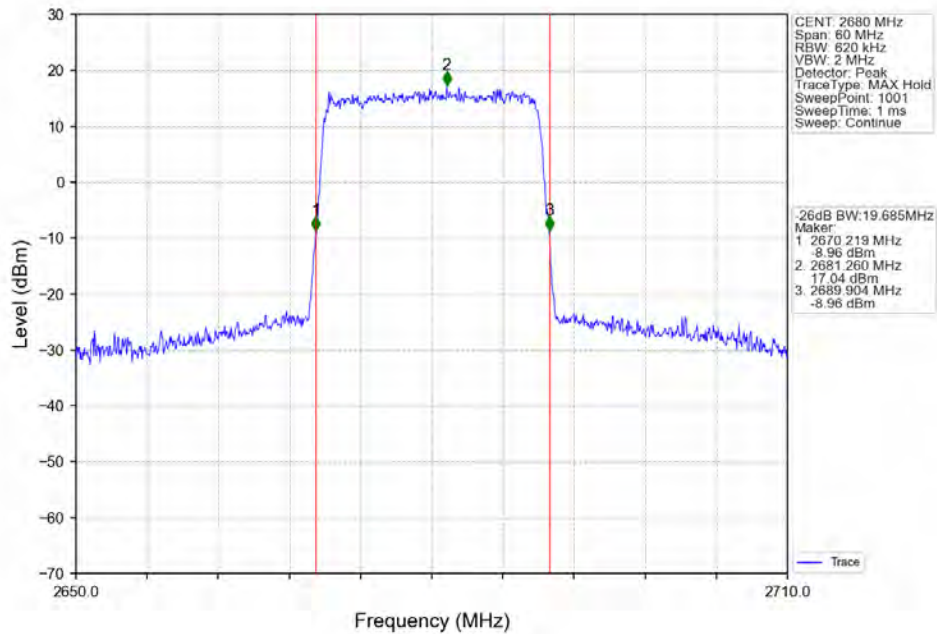
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4. Peak-Average Ratio

4.1 B41_5MHz

4.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.29	<=13	Pass
	2593	25	0	7.96	<=13	Pass
	2687.5	25	0	7.81	<=13	Pass
16QAM	2498.5	25	0	8.09	<=13	Pass
	2593	25	0	8.87	<=13	Pass
	2687.5	25	0	8.53	<=13	Pass



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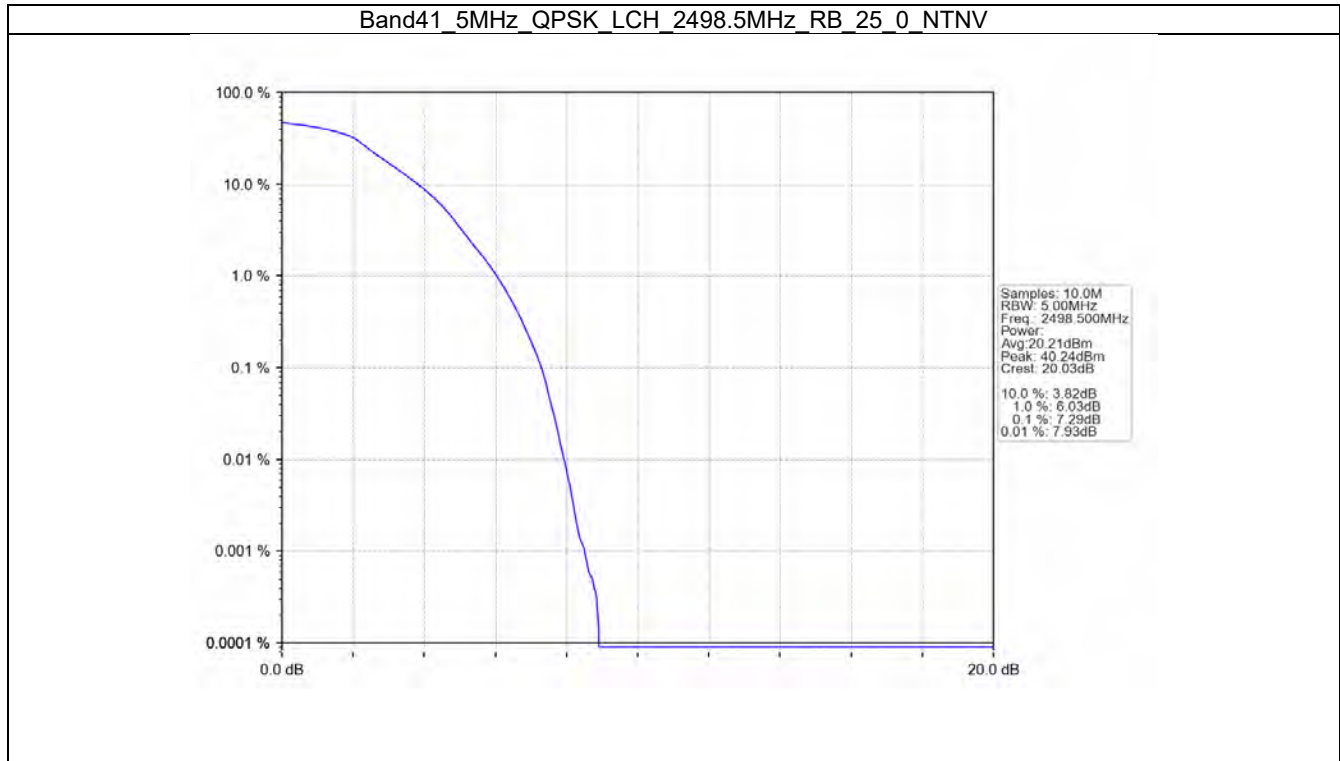
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4.1.2 Test Graph



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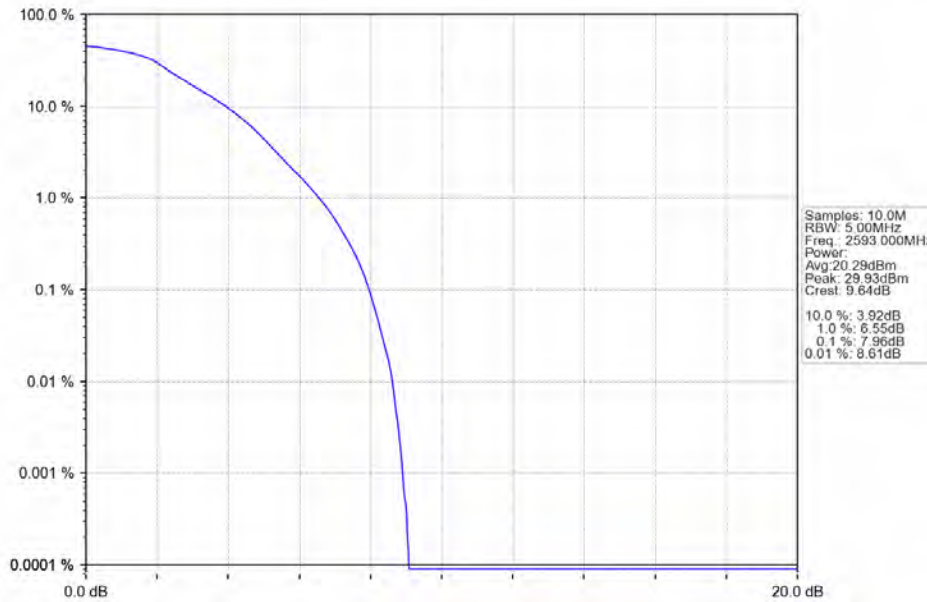
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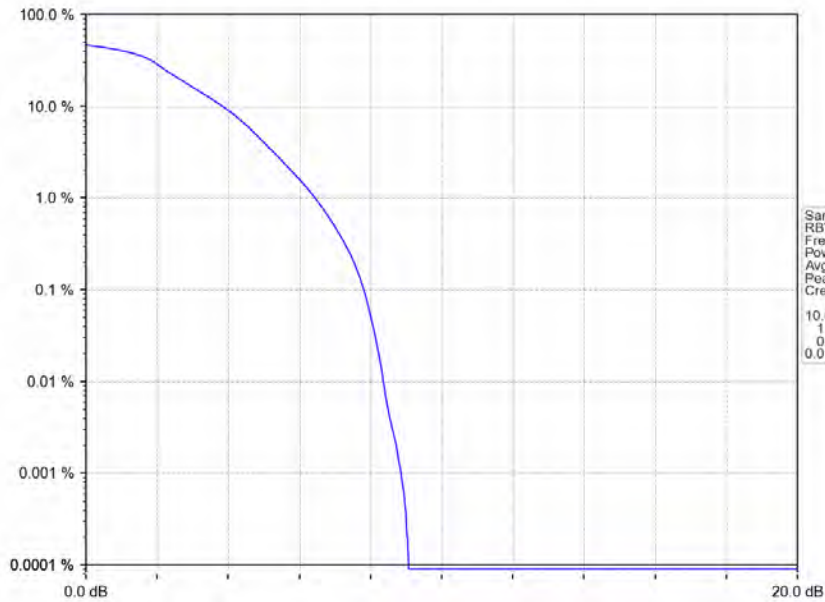
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 2687.500MHz
 Power:
 Avg: 20.43dBm
 Peak: 29.57dBm
 Crest: 9.14dB
 10.0 %: 3.83dB
 1.0 %: 6.44dB
 0.1 %: 7.81dB
 0.01 %: 8.36dB



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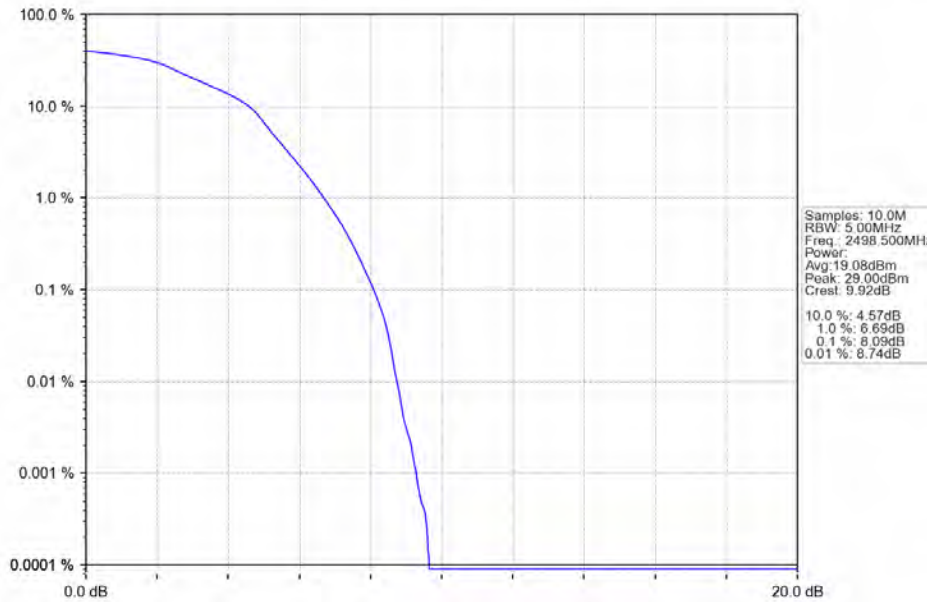
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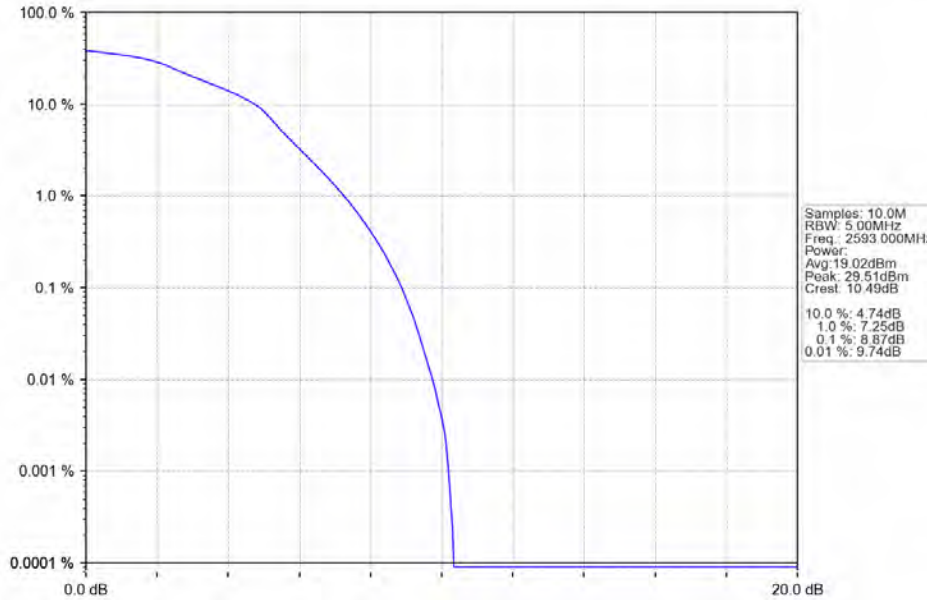
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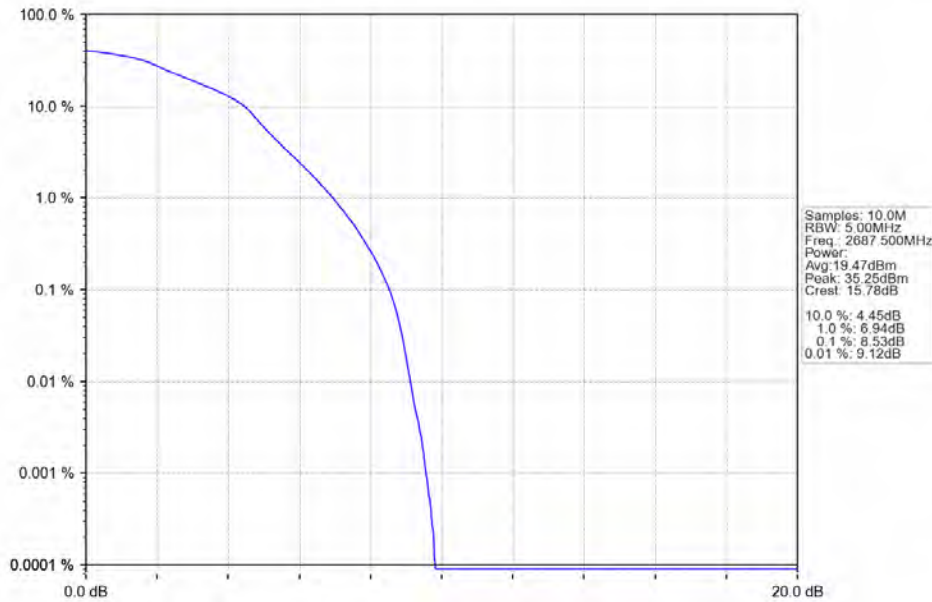
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4.2 B41_10MHz

4.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	7.45	<=13	Pass
	2593	50	0	7.84	<=13	Pass
	2685	50	0	7.81	<=13	Pass
16QAM	2501	50	0	8.05	<=13	Pass
	2593	50	0	8.60	<=13	Pass
	2685	50	0	8.57	<=13	Pass



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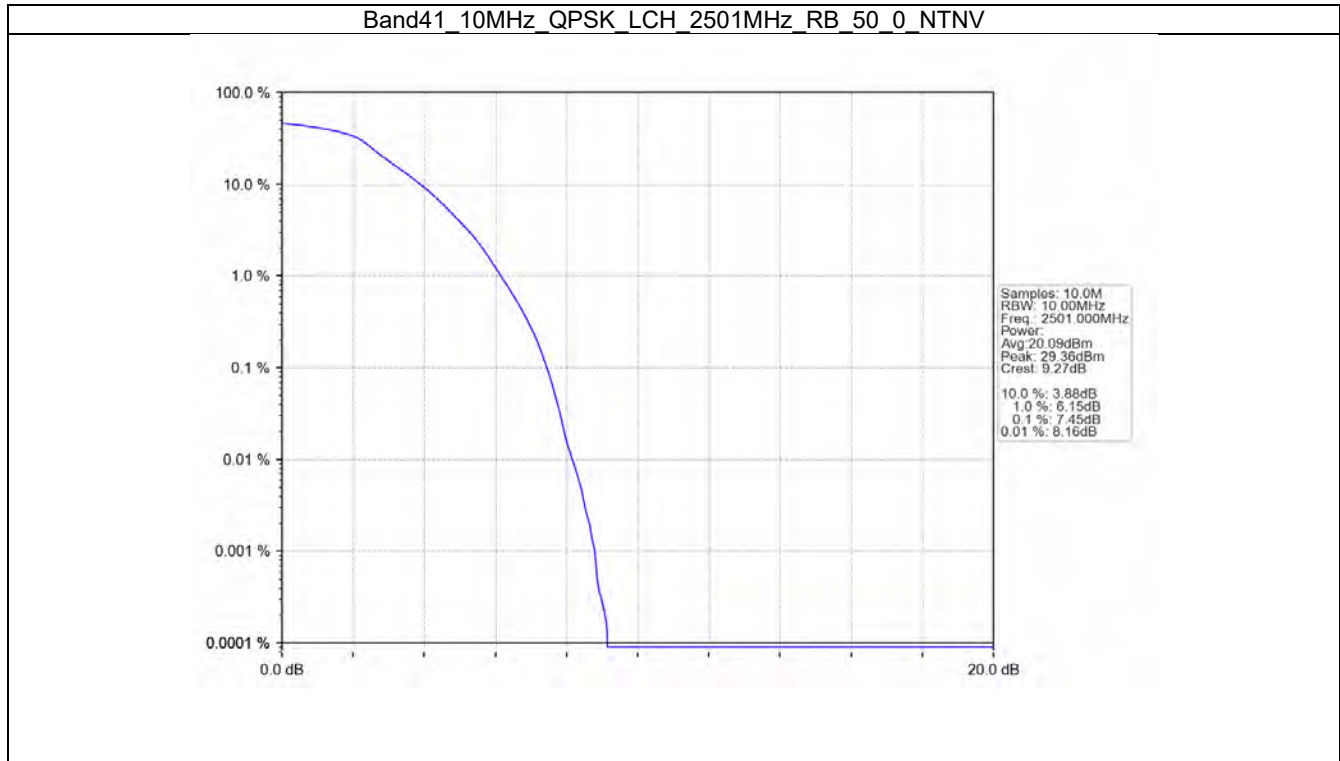
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4.2.2 Test Graph



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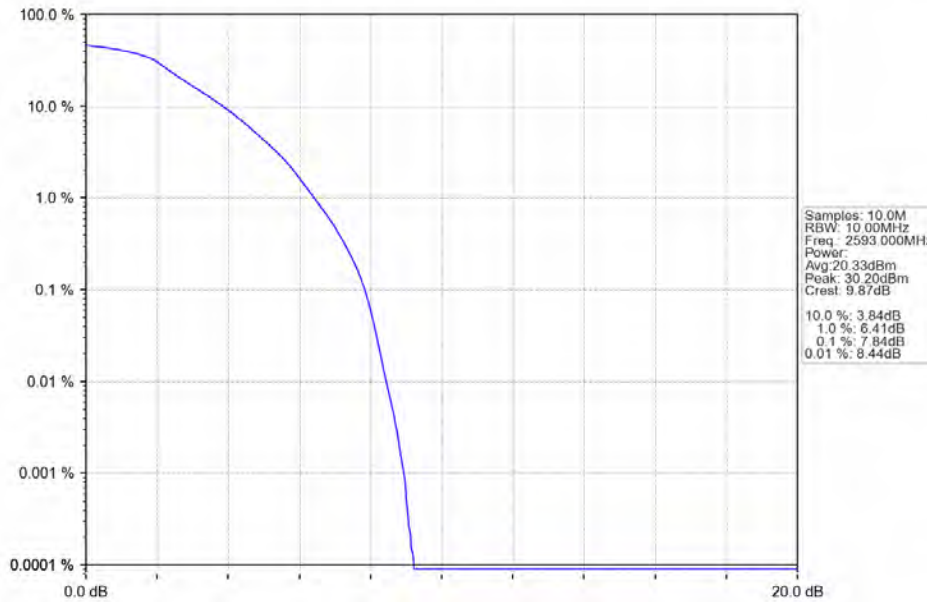
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Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



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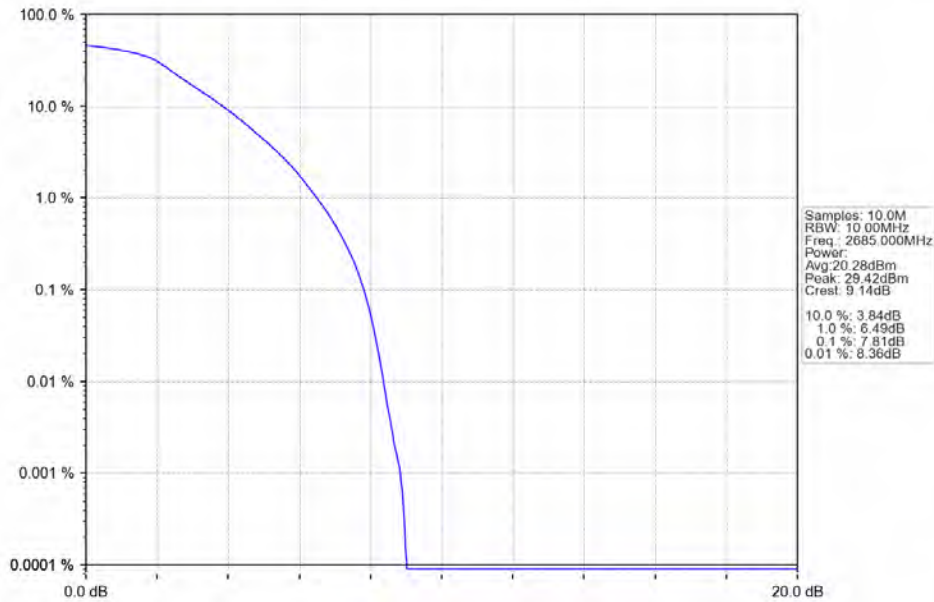
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Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



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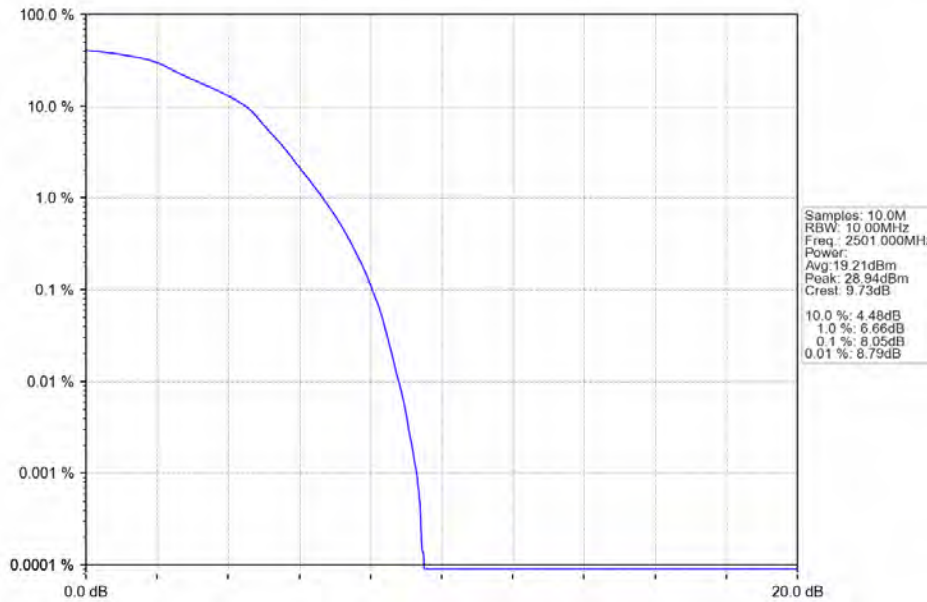
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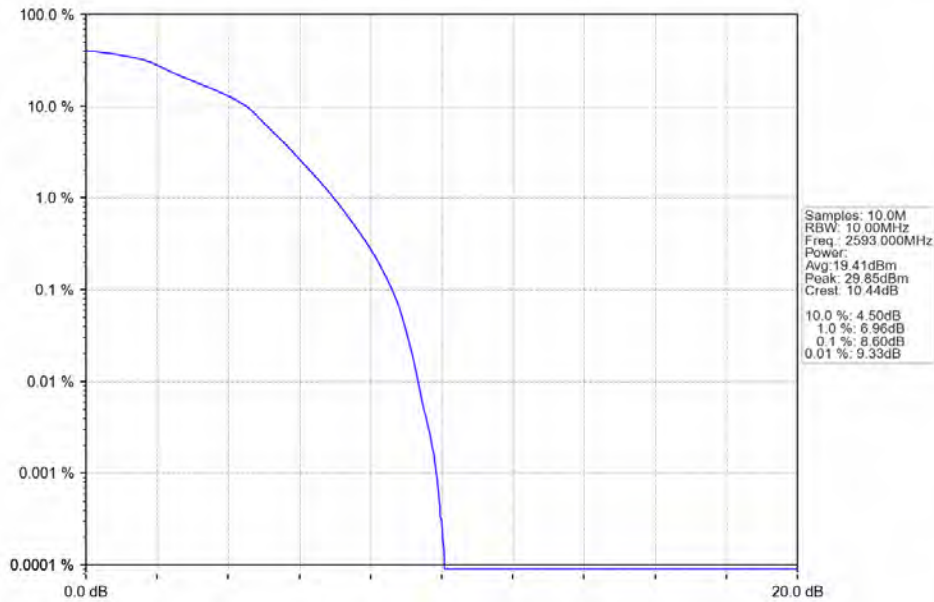
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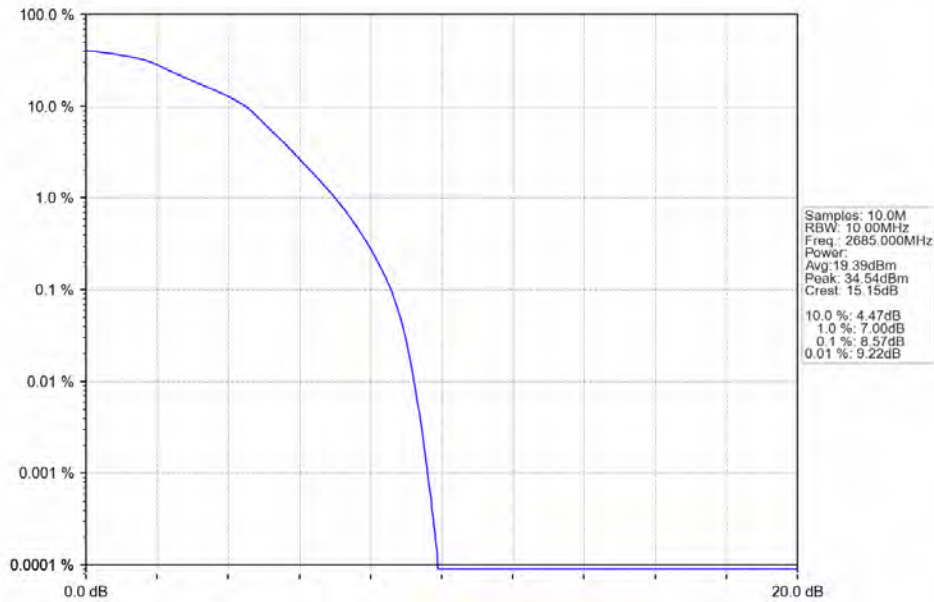
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4.3 B41_15MHz

4.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	7.49	<=13	Pass
	2593	75	0	8.25	<=13	Pass
	2682.5	75	0	7.83	<=13	Pass
16QAM	2503.5	75	0	8.18	<=13	Pass
	2593	75	0	8.81	<=13	Pass
	2682.5	75	0	8.81	<=13	Pass

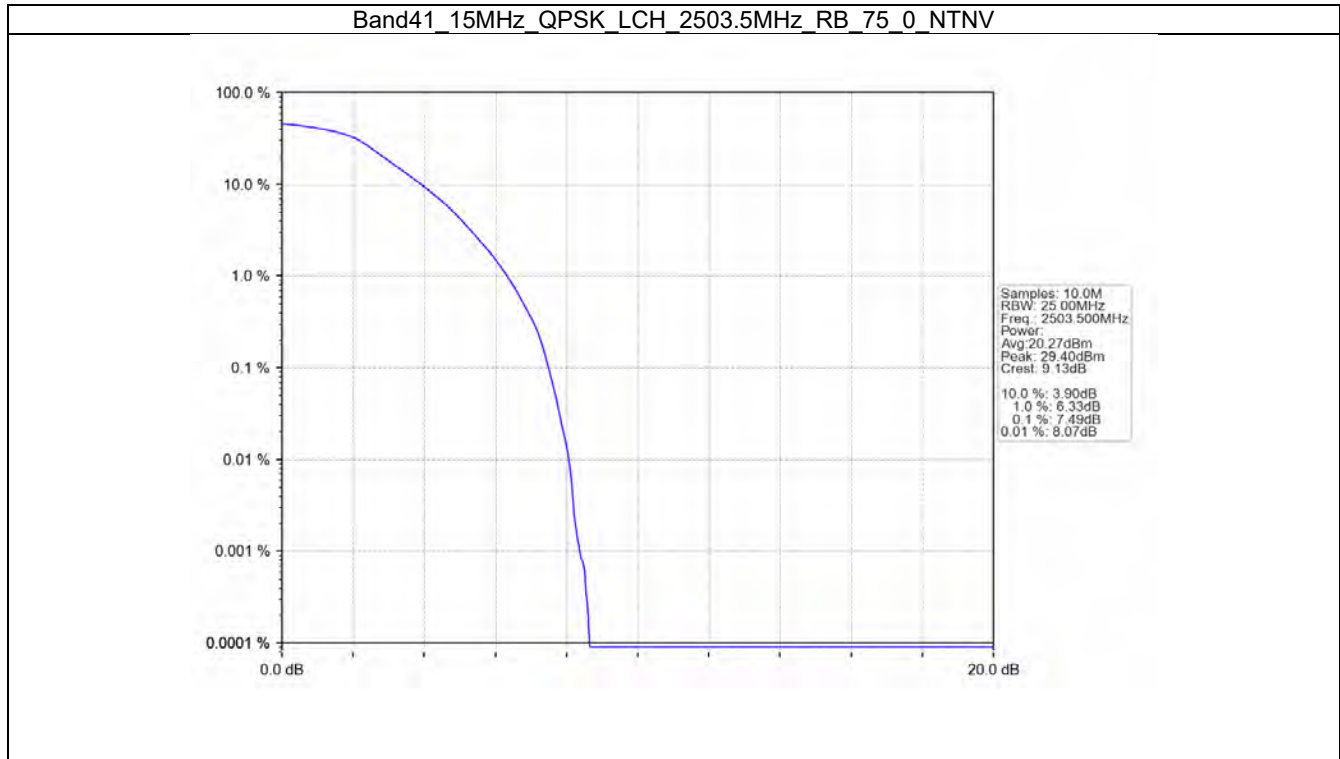


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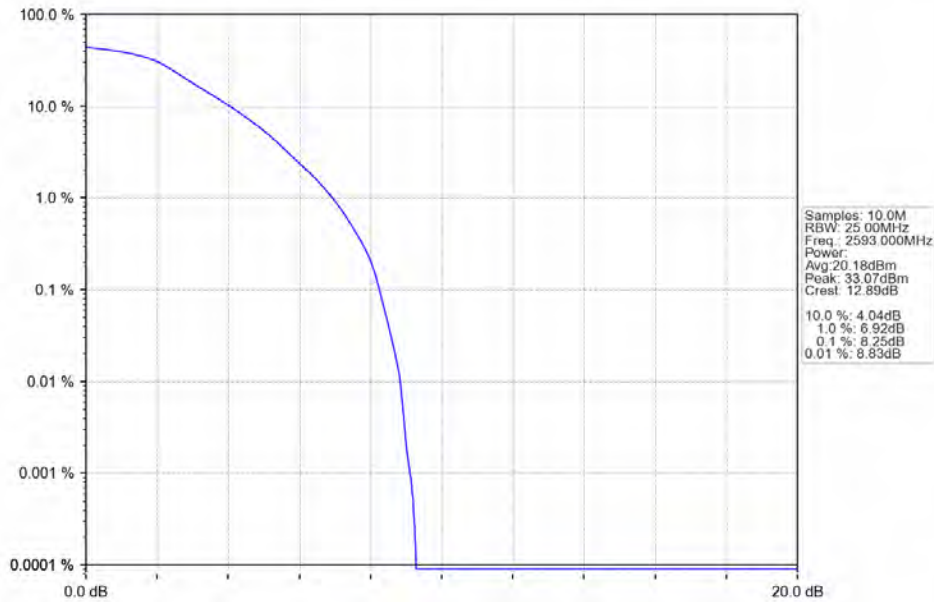
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Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



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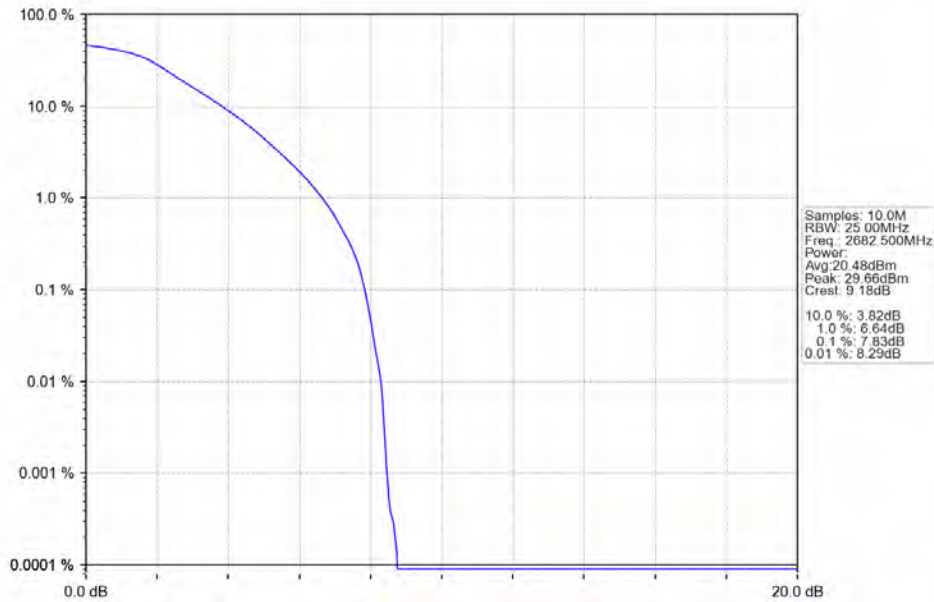
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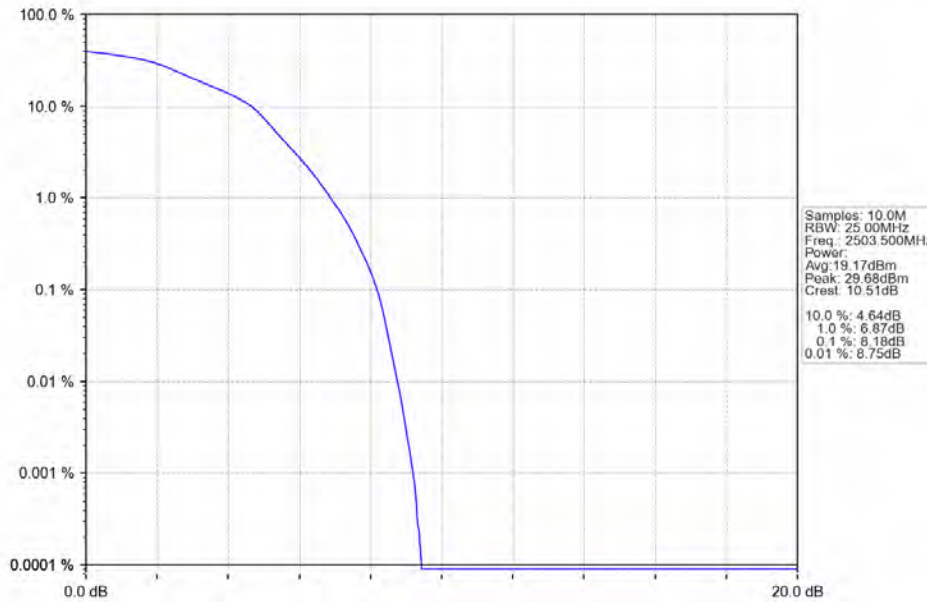
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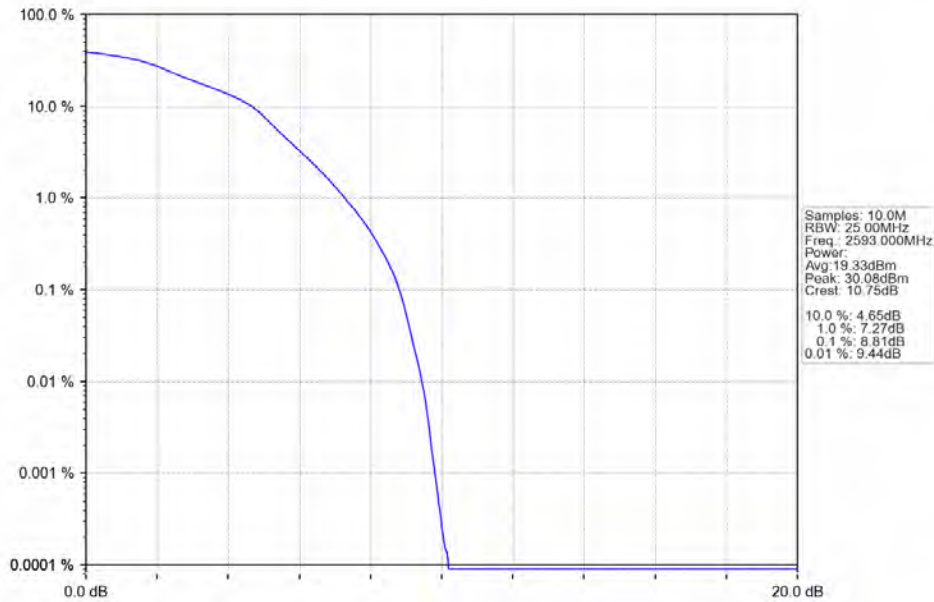
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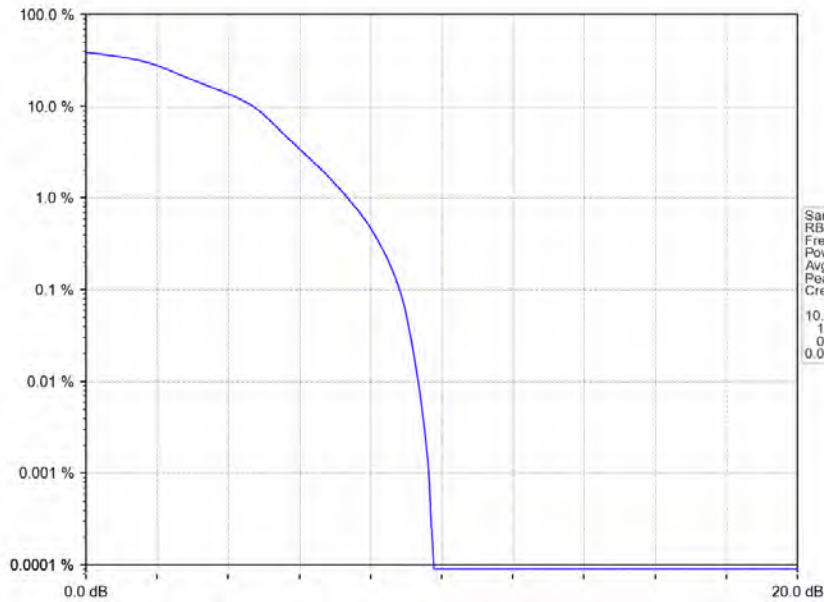
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Samples: 10.0M
 RBW: 25.00MHz
 Freq: 2682.500MHz
 Power:
 Avg: 19.17dBm
 Peak: 35.60dBm
 Crest: 16.43dB
 10.0%: 4.69dB
 1.0%: 7.35dB
 0.1%: 8.81dB
 0.01%: 9.34dB



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4.4 B41_20MHz

4.4.1 Test Result

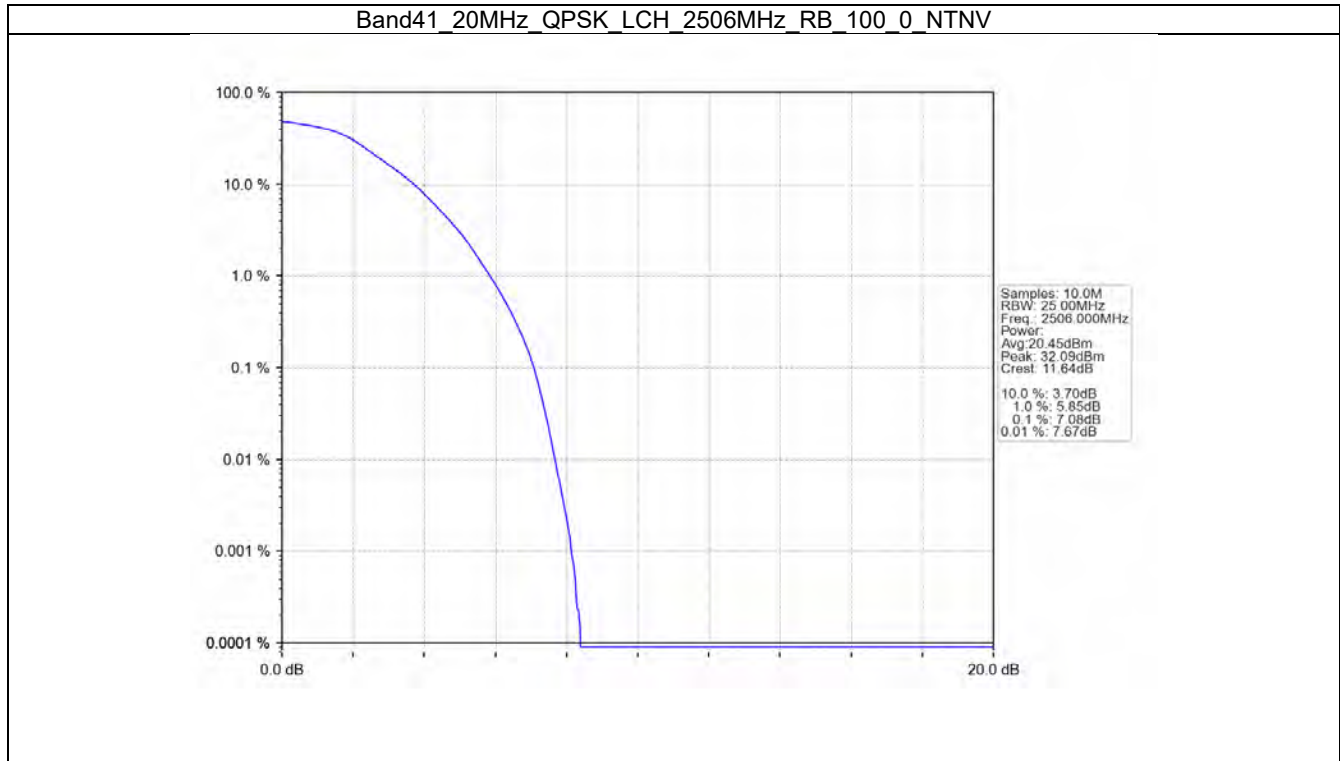
Band: 41 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	7.08	<=13	Pass
	2593	100	0	7.60	<=13	Pass
	2680	100	0	7.53	<=13	Pass
16QAM	2506	100	0	7.92	<=13	Pass
	2593	100	0	8.67	<=13	Pass
	2680	100	0	8.45	<=13	Pass



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4.4.2 Test Graph



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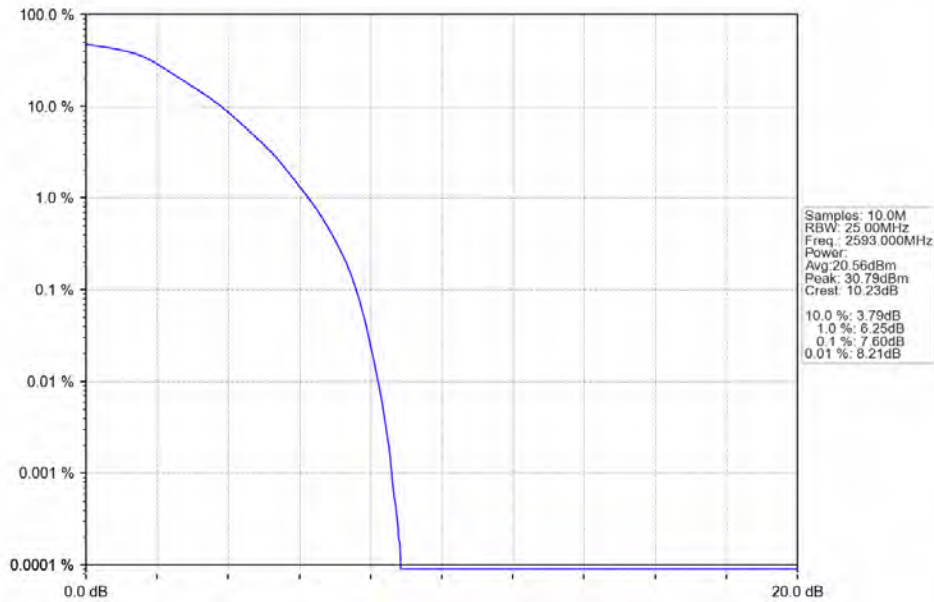
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Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



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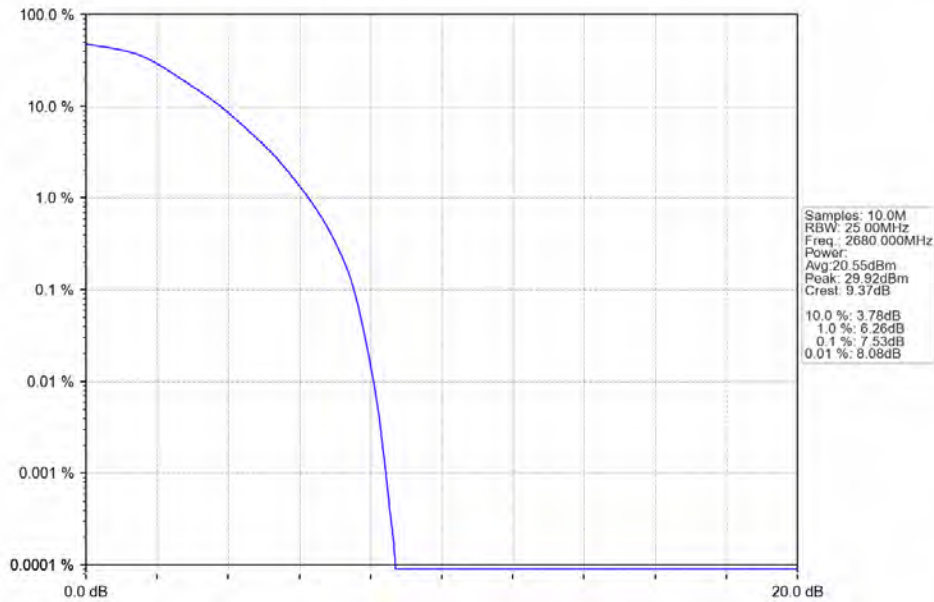
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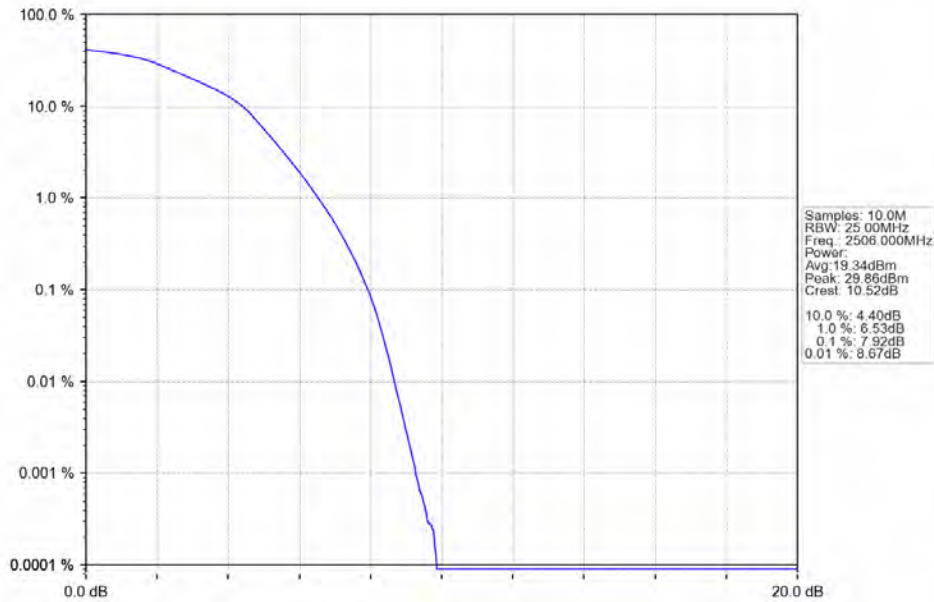
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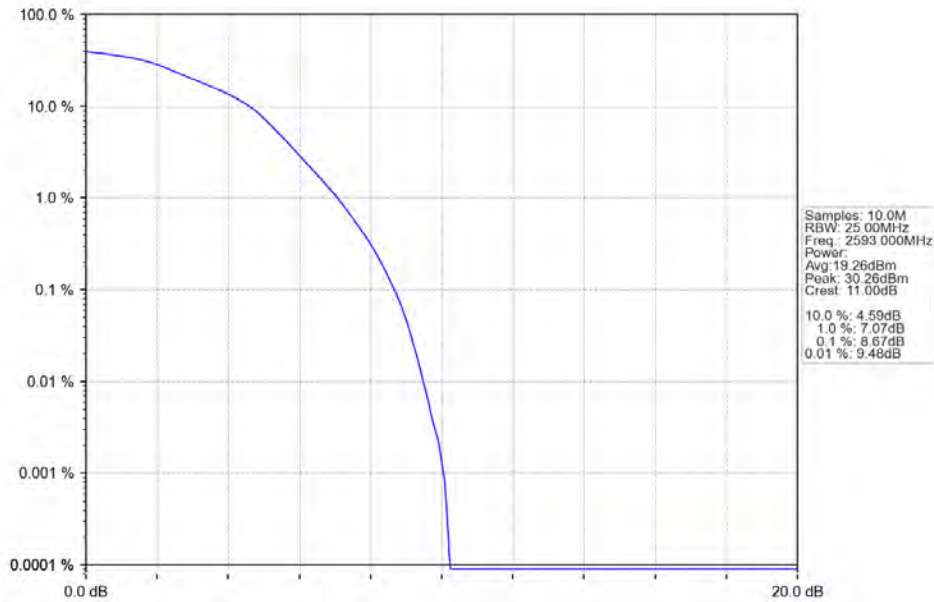
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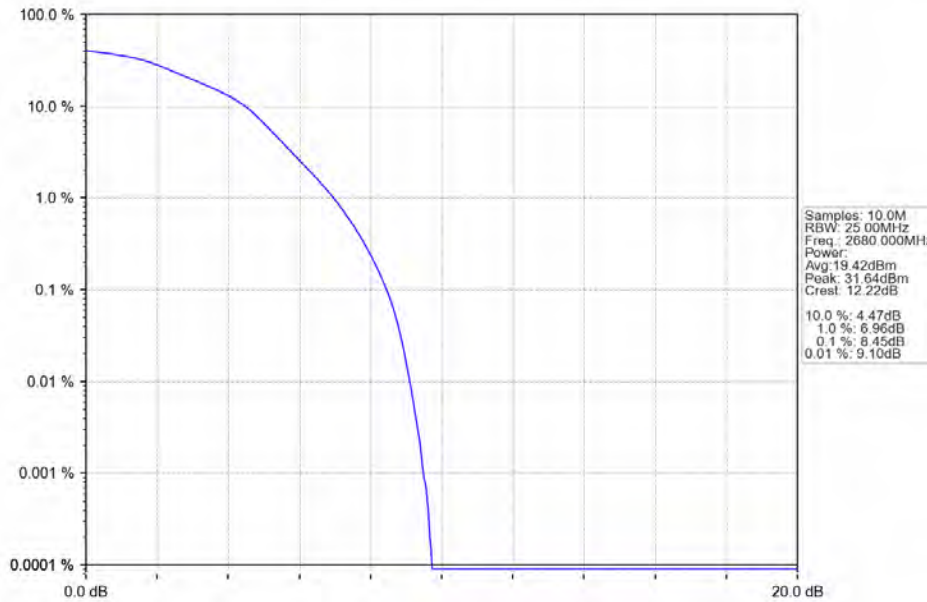
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5. Spurious Emission & Band Edge

5.1 B41_5MHz

5.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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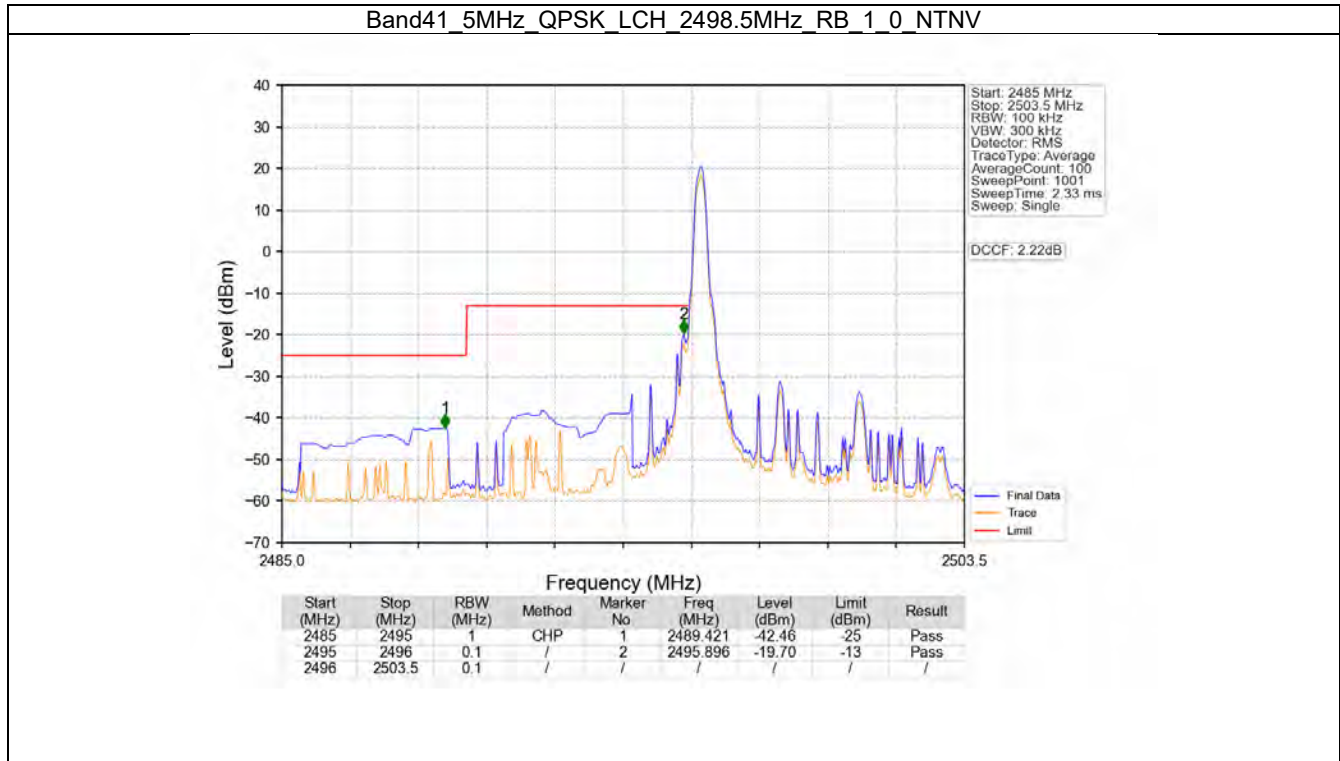
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5.1.2 Test Graph



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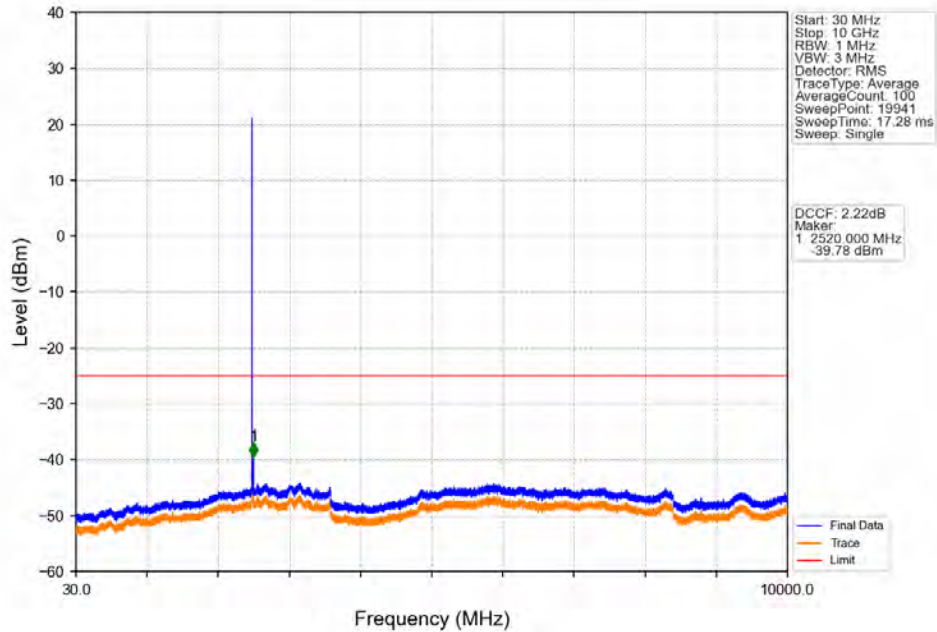
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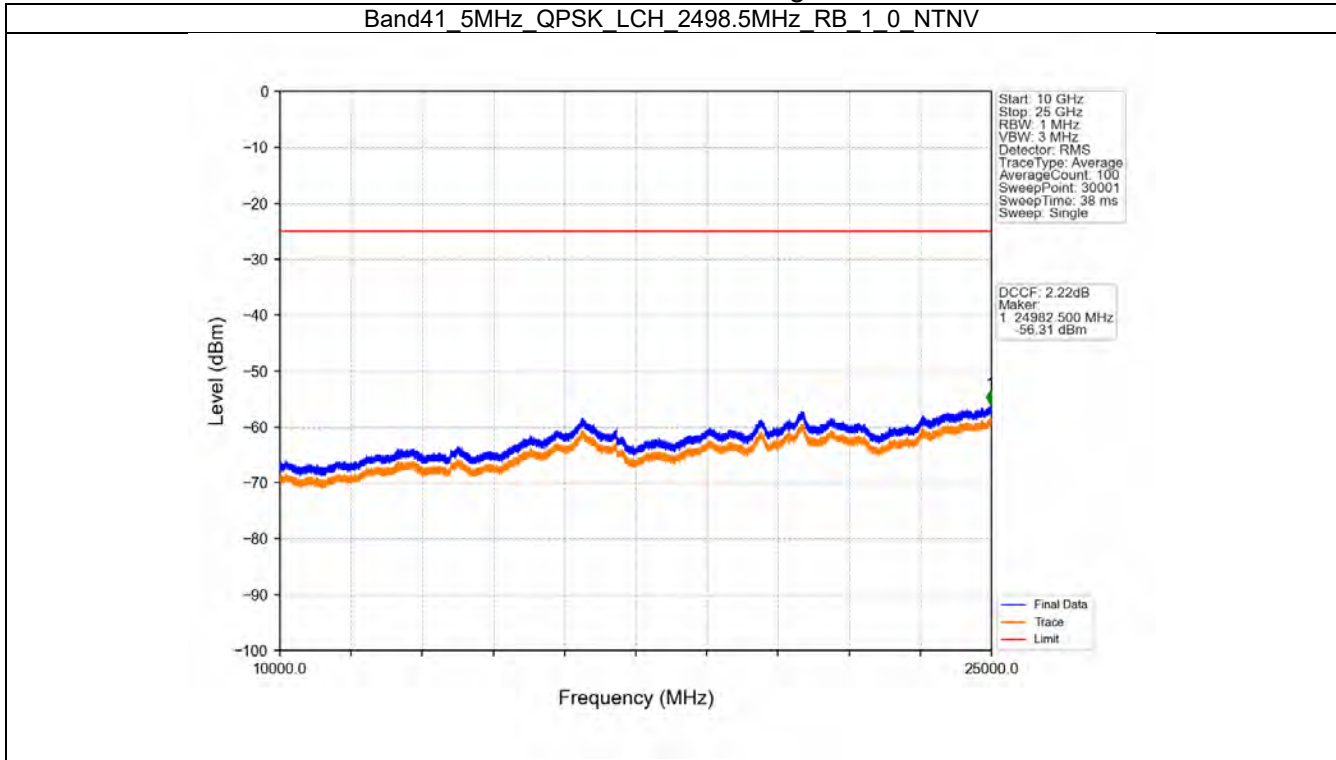
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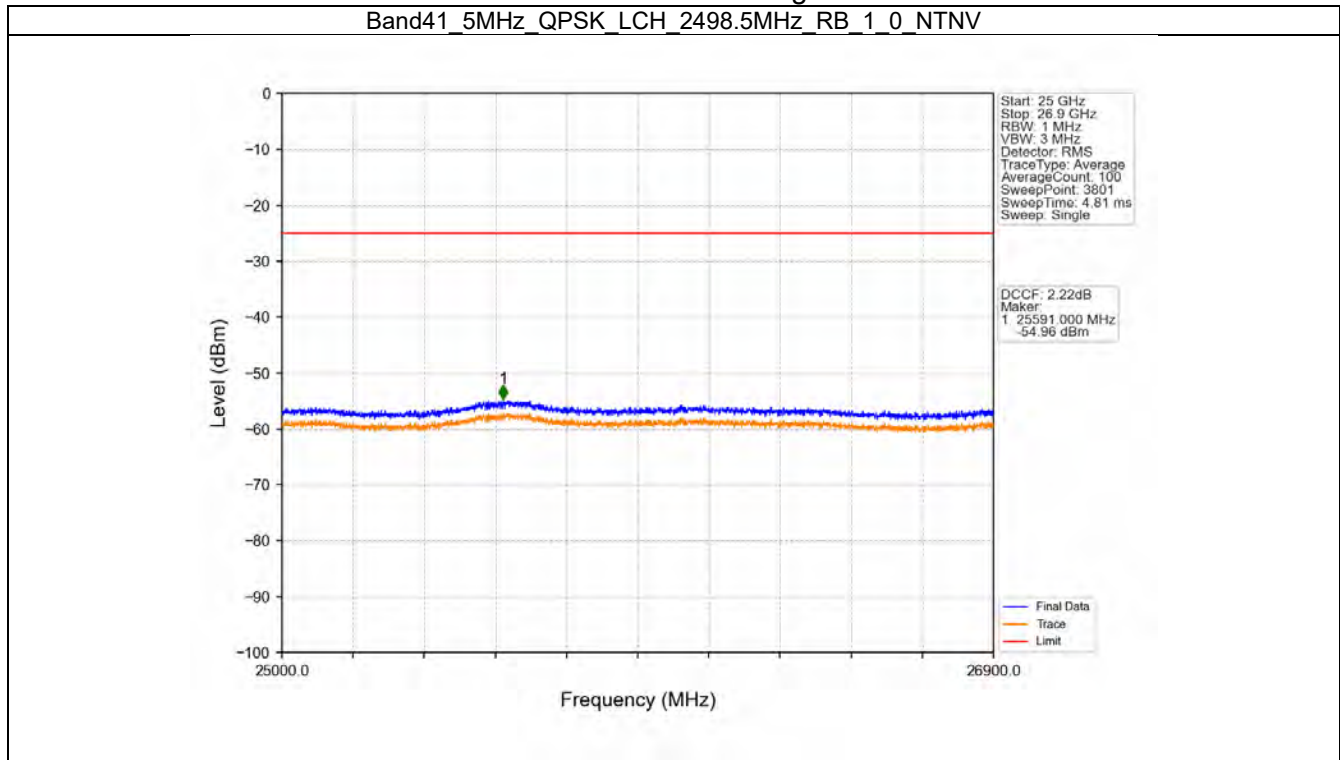
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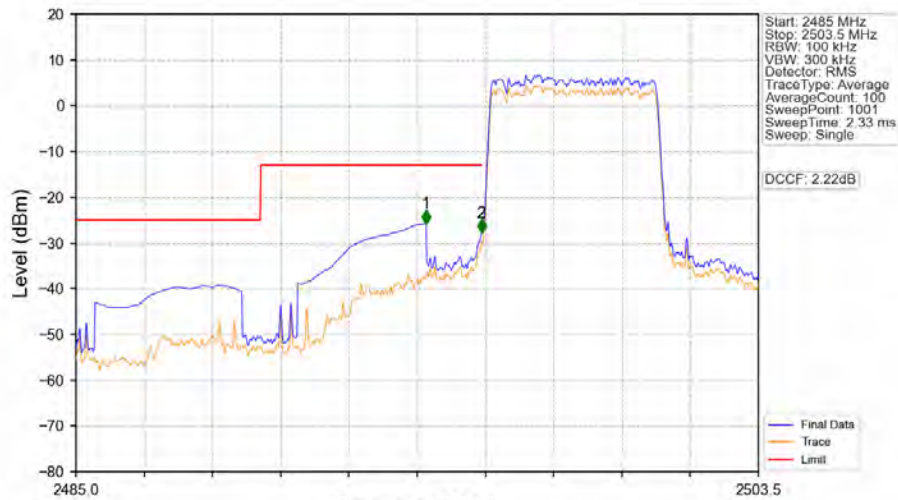
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Band41_5MHz_QPSK_LCH_2498.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2494.490	-25.77	-13	Pass
2495	2496	0.1	/	2	2495.989	-27.81	-13	Pass
2496	2503.5	0.103	/	/	/	/	/	/



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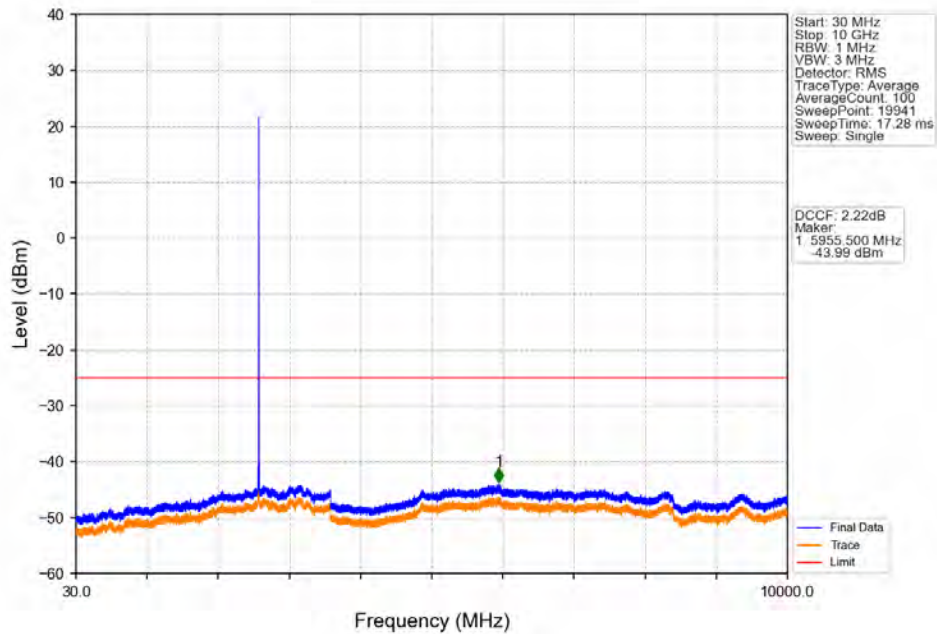
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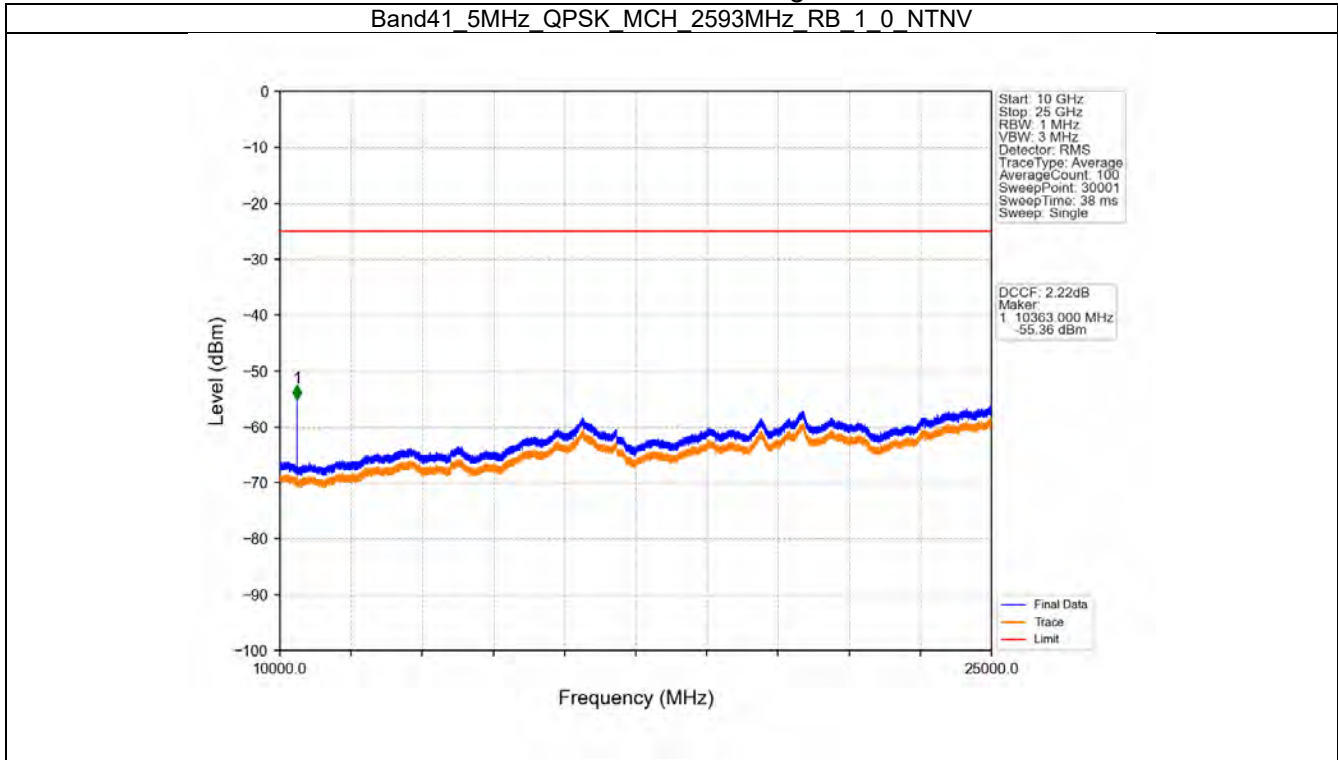
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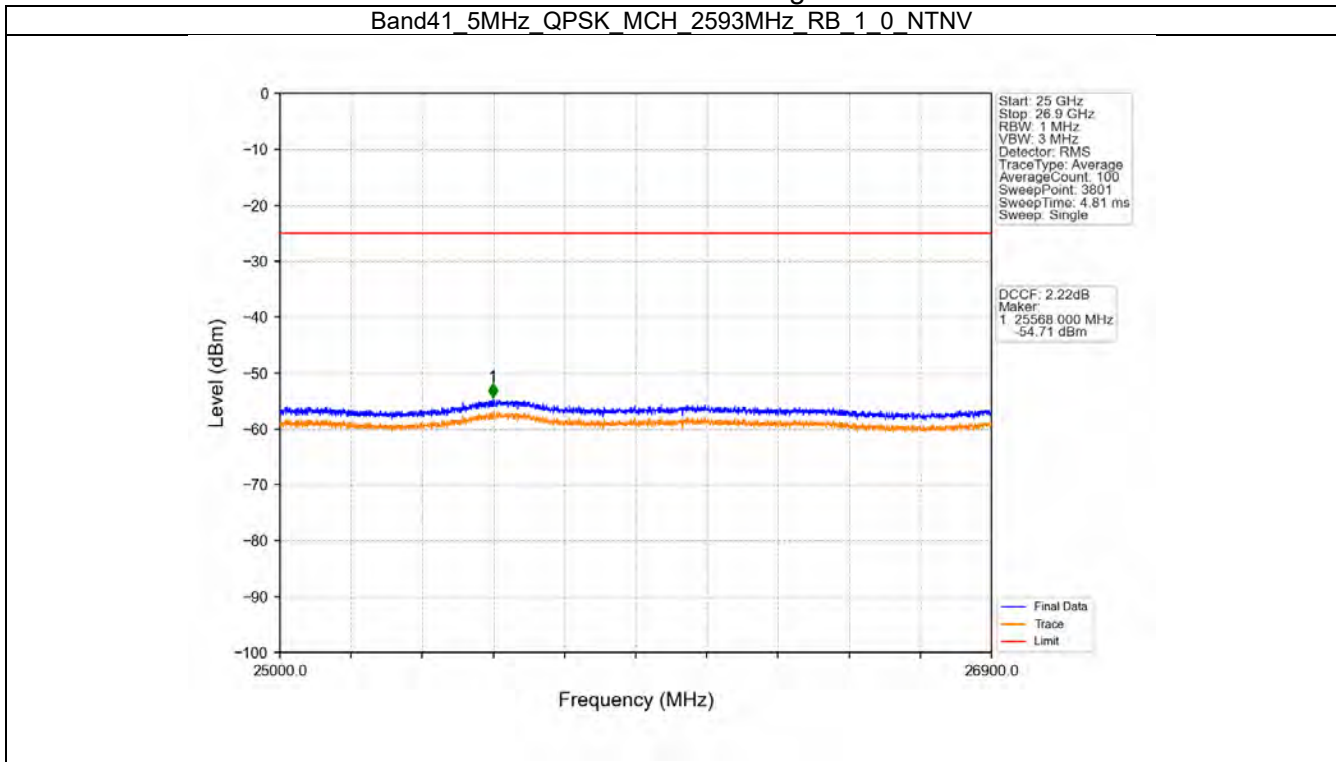
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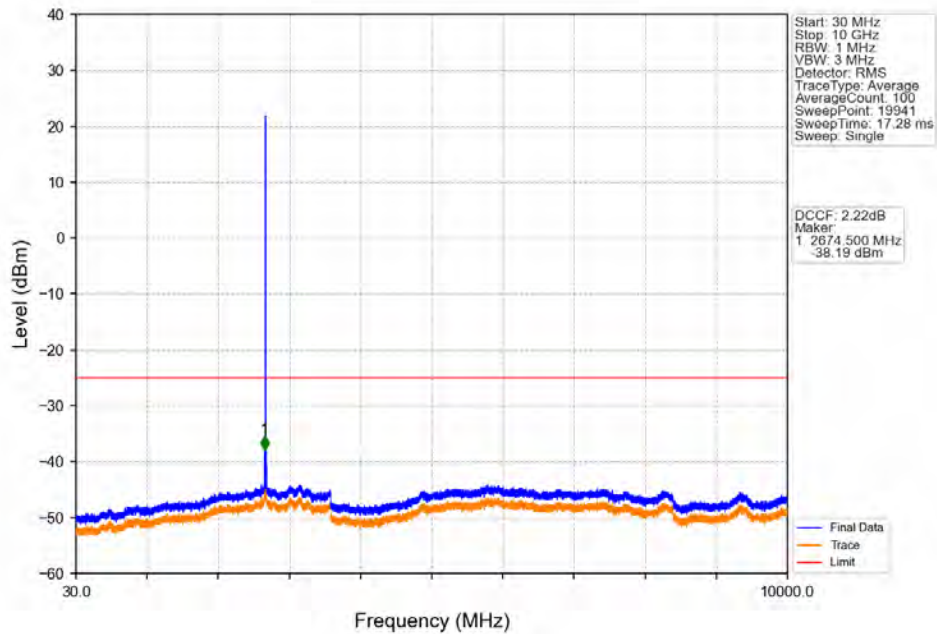
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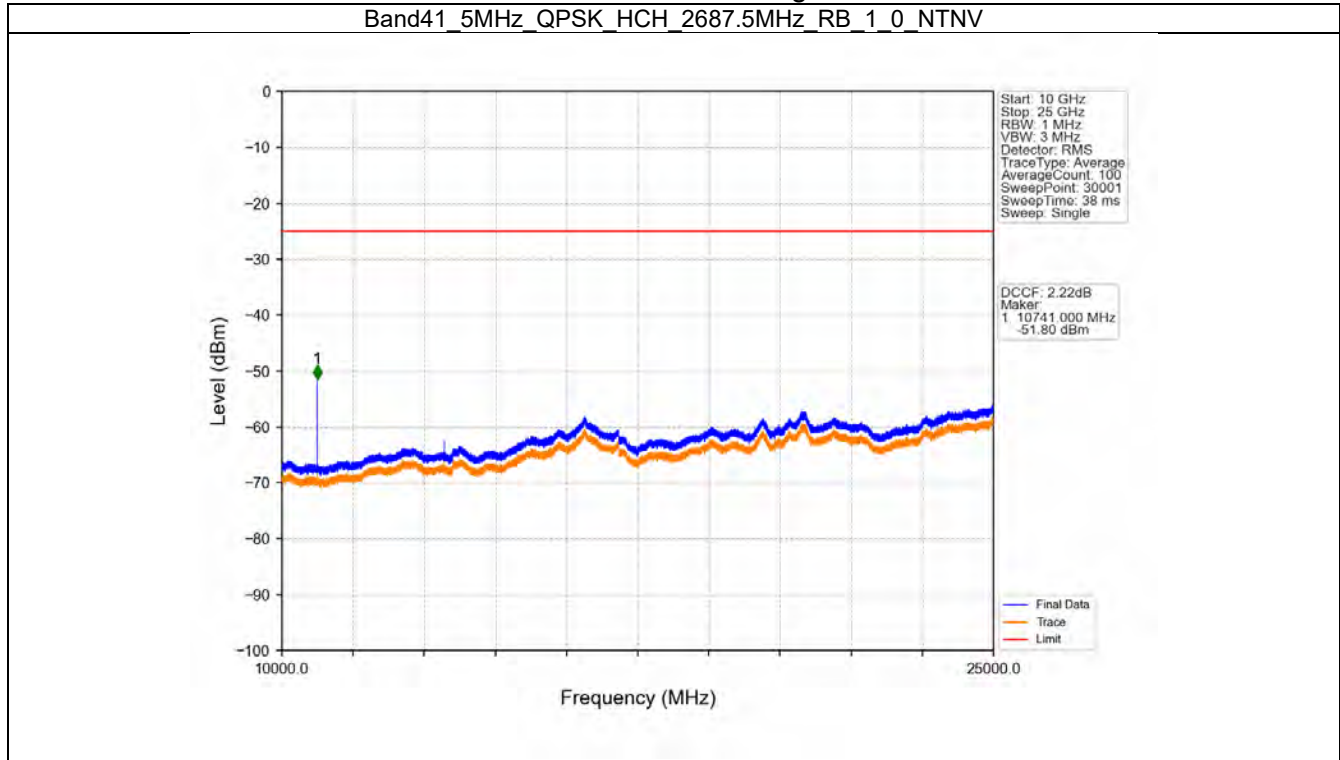
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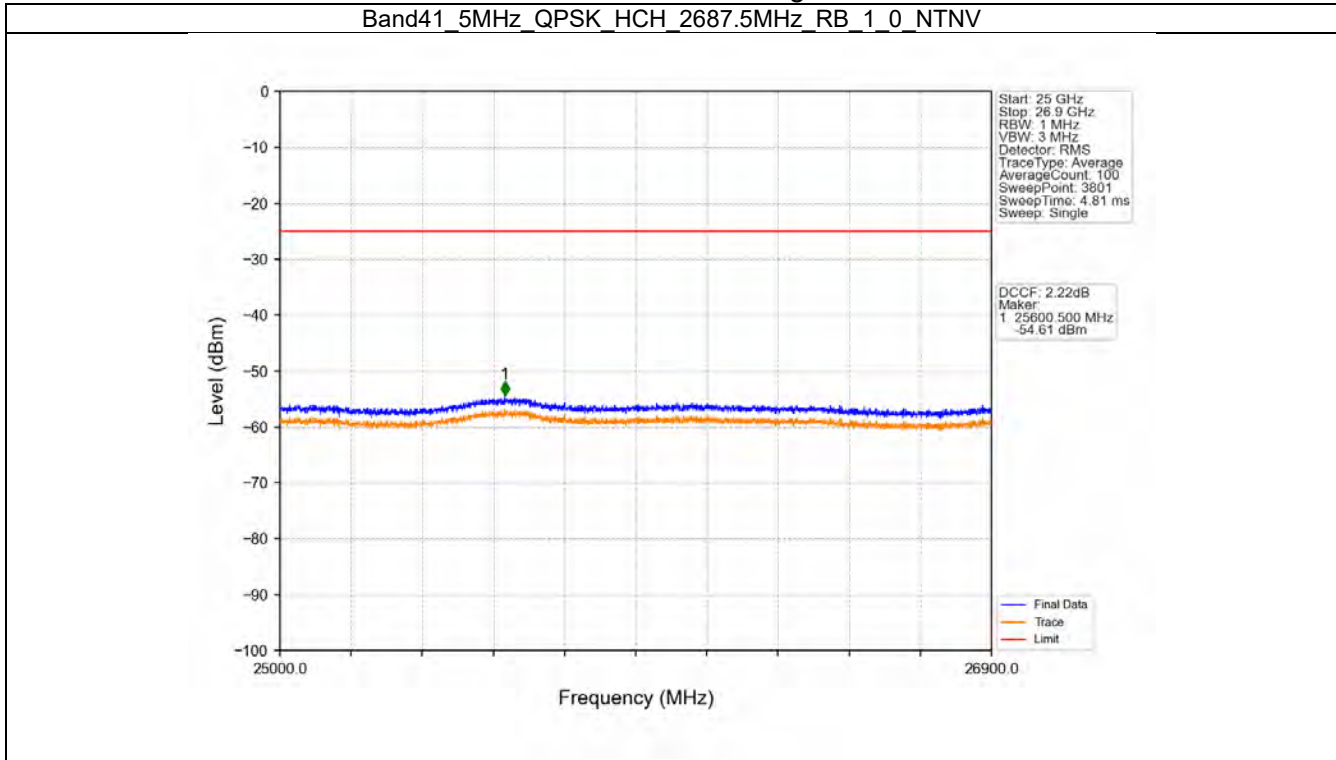
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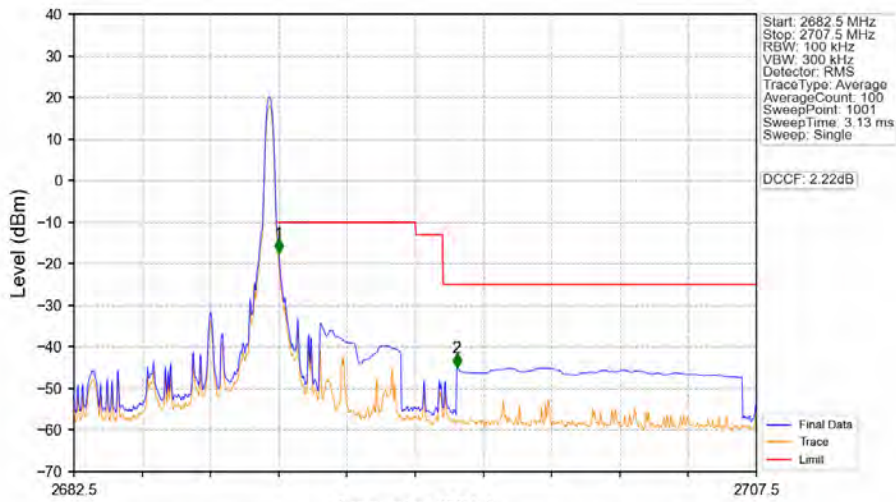
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.1	/	1	2690.000	-17.49	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-44.98	-25	Pass



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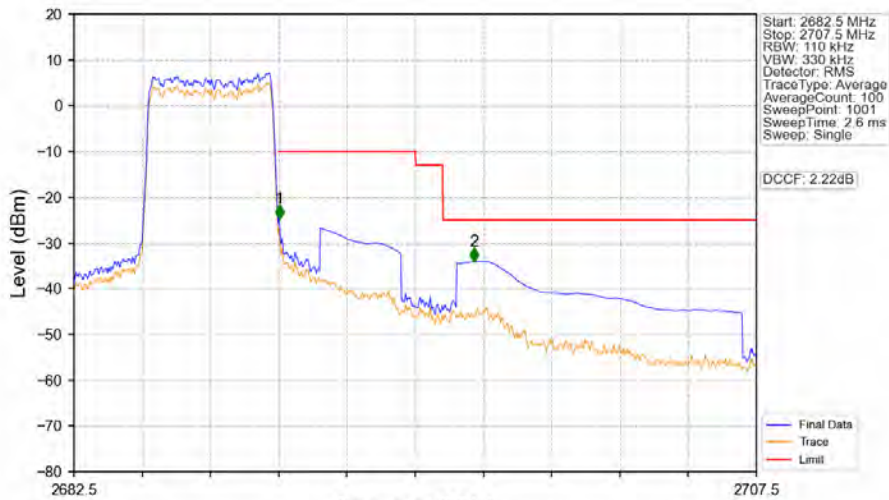
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.11	/	1	2690.025	-24.71	-10	Pass
2691	2707.5	1	CHP	2	2697.150	-34.05	-25	Pass



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5.2 B41_10MHz

5.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

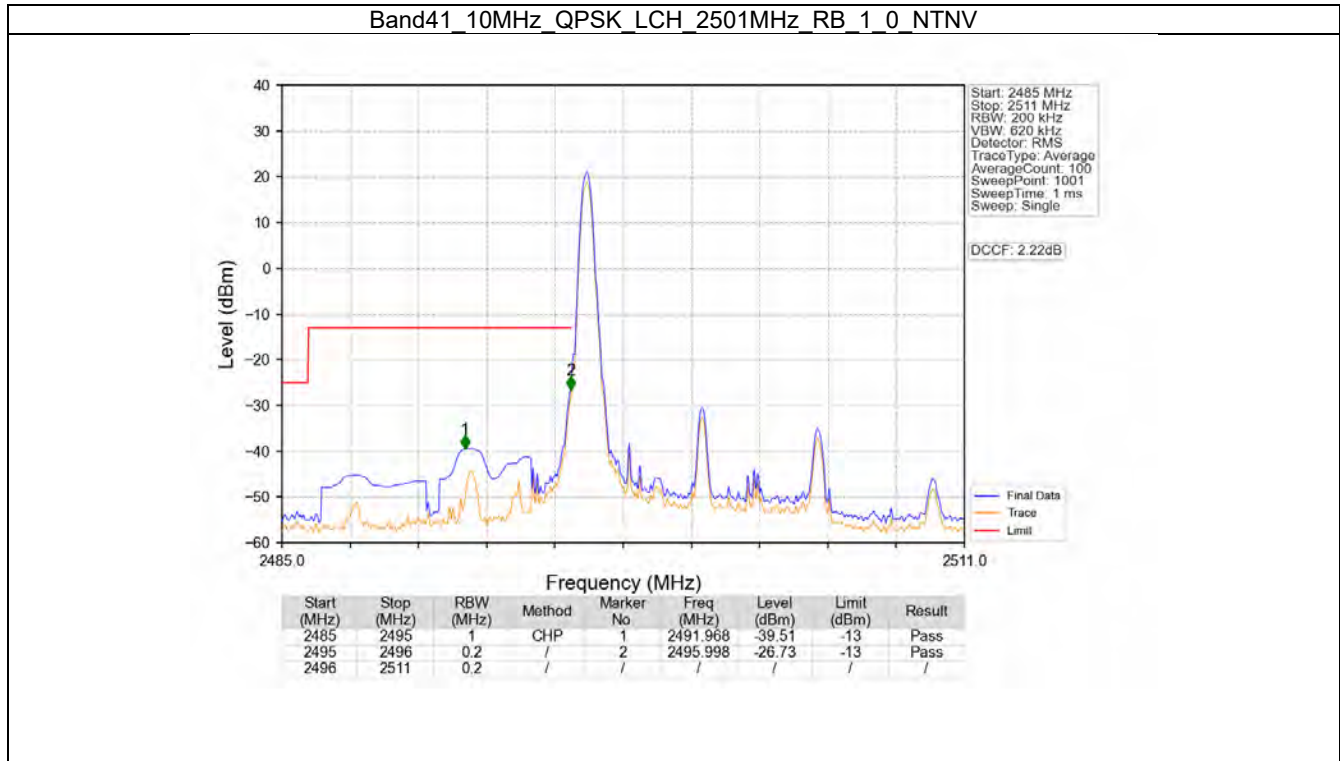


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5.2.2 Test Graph

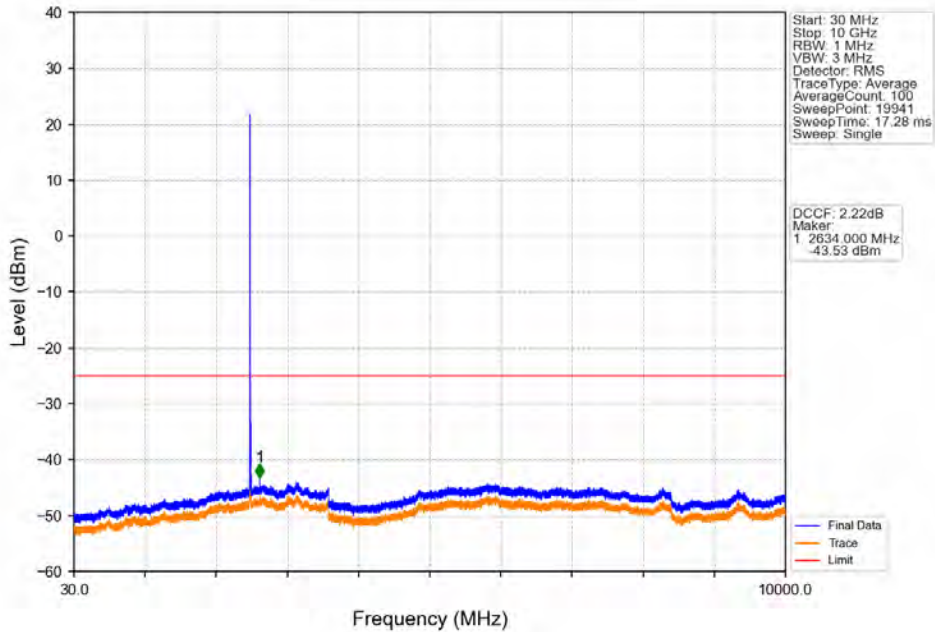


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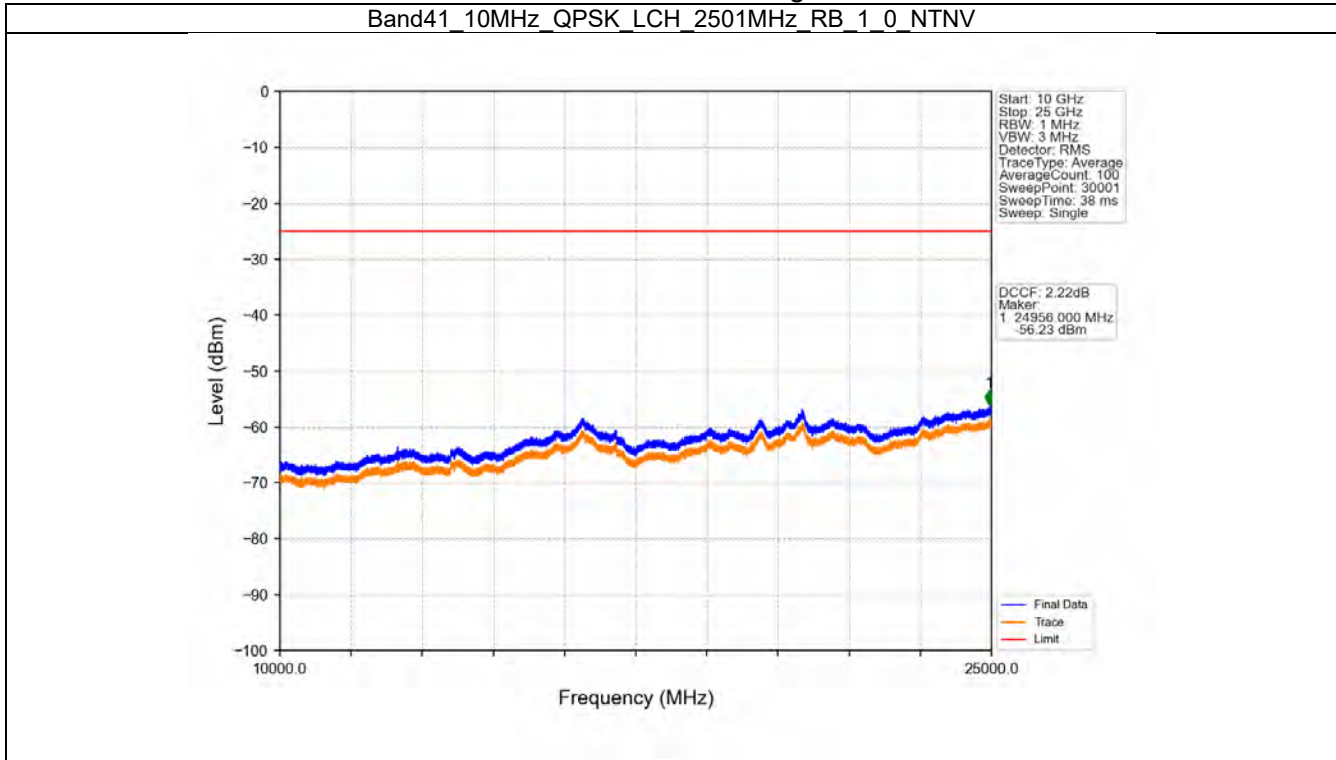
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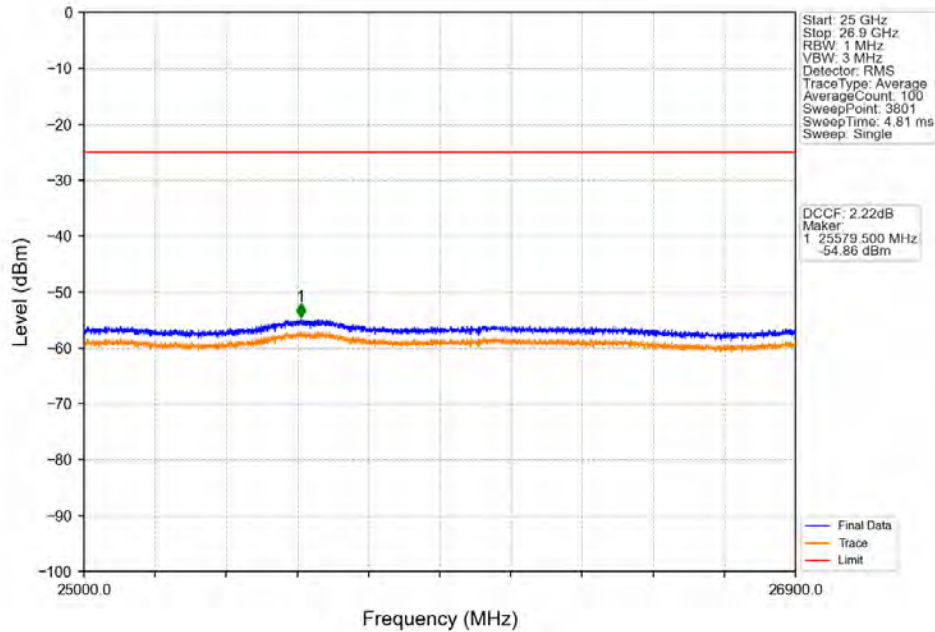
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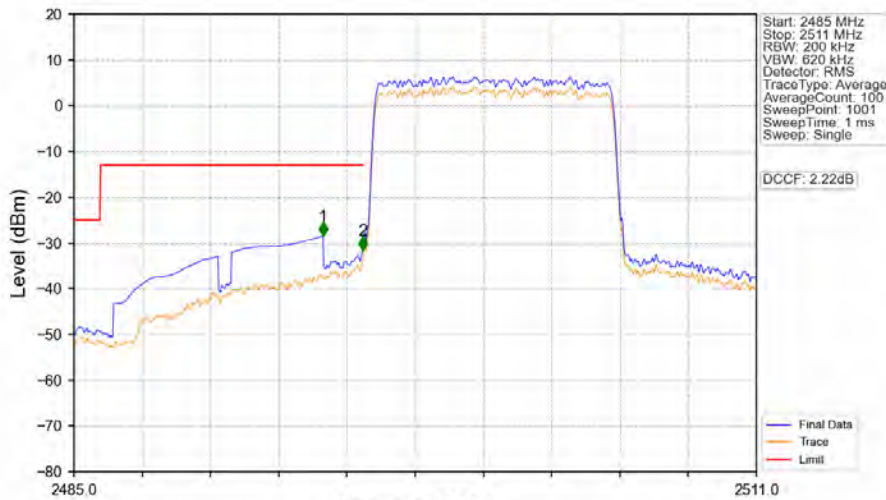
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2484.490	-28.49	-13	Pass
2495	2496	0.2	/	2	2495.998	-31.69	-13	Pass
2496	2511	0.2	/	/	/	/	/	/

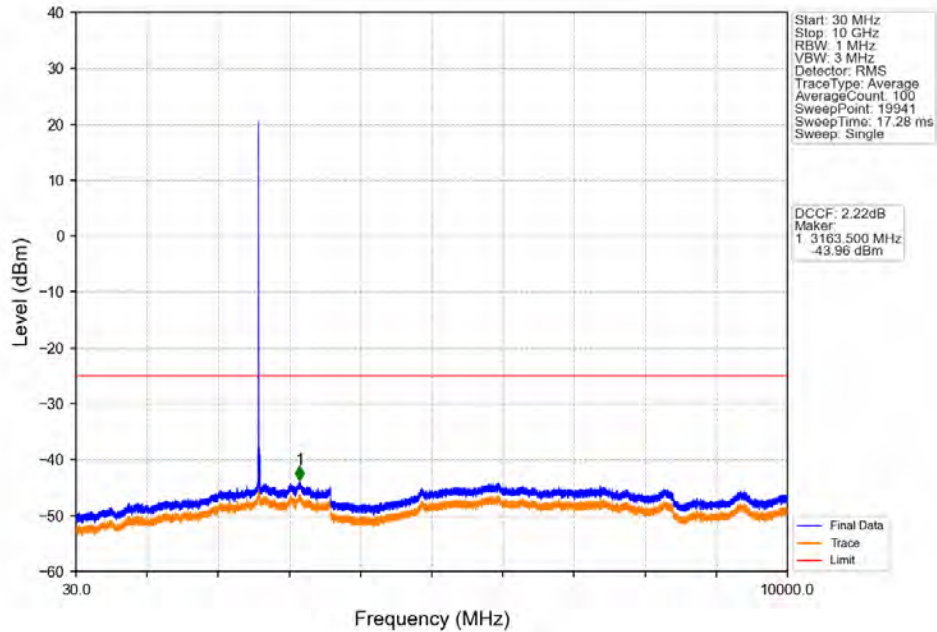


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Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



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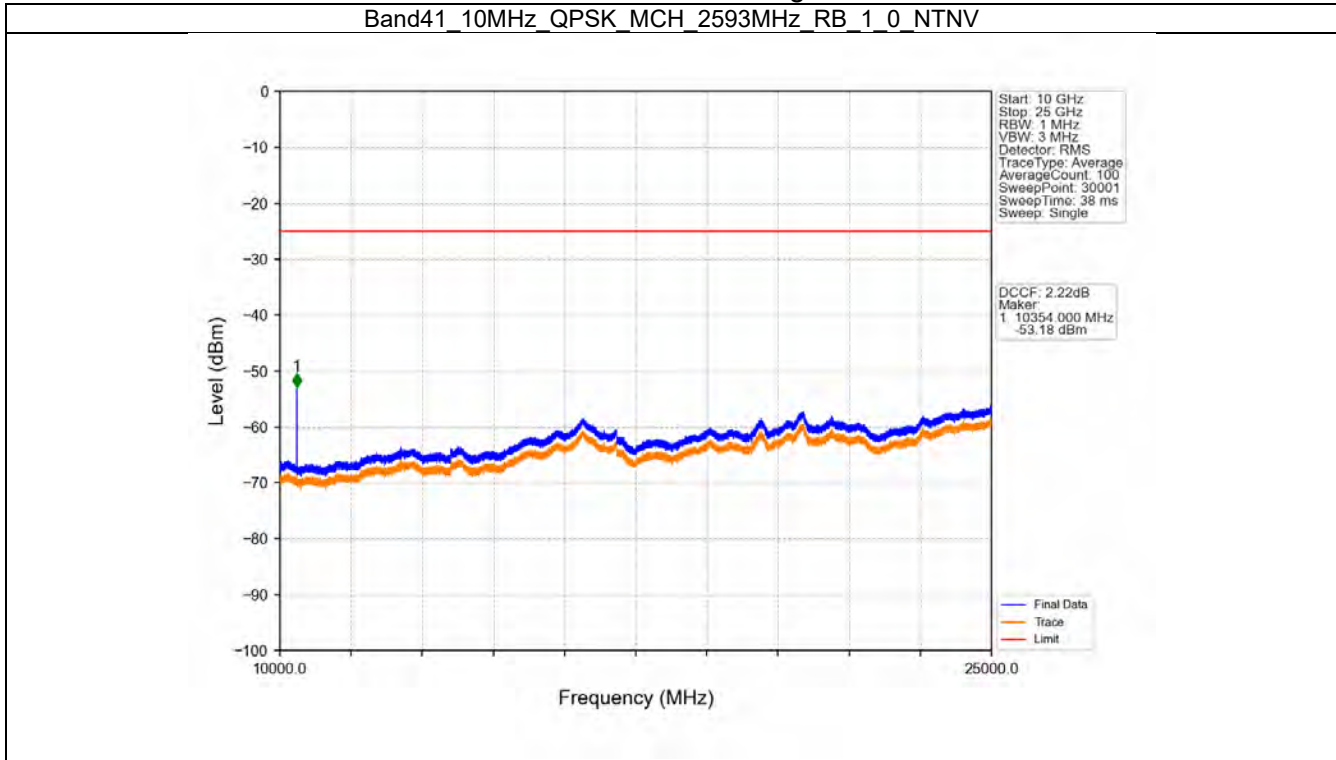
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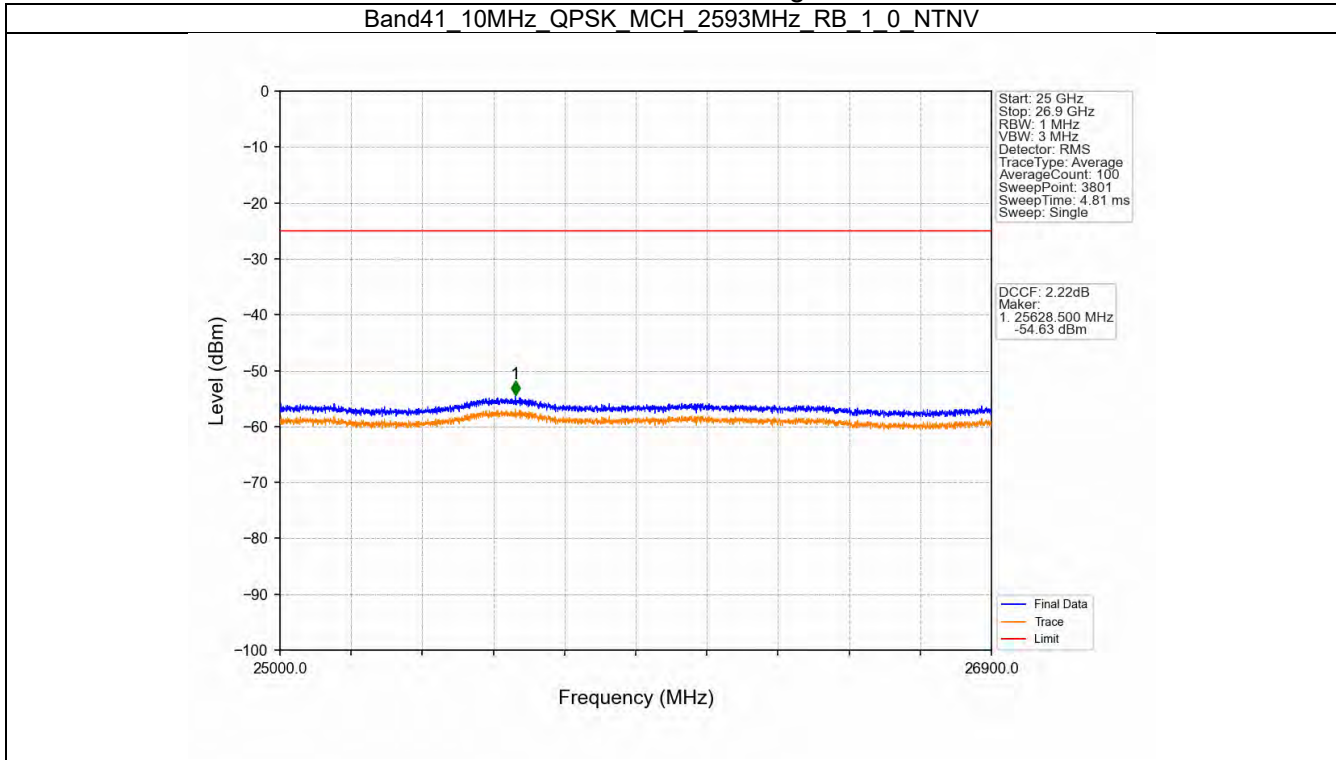
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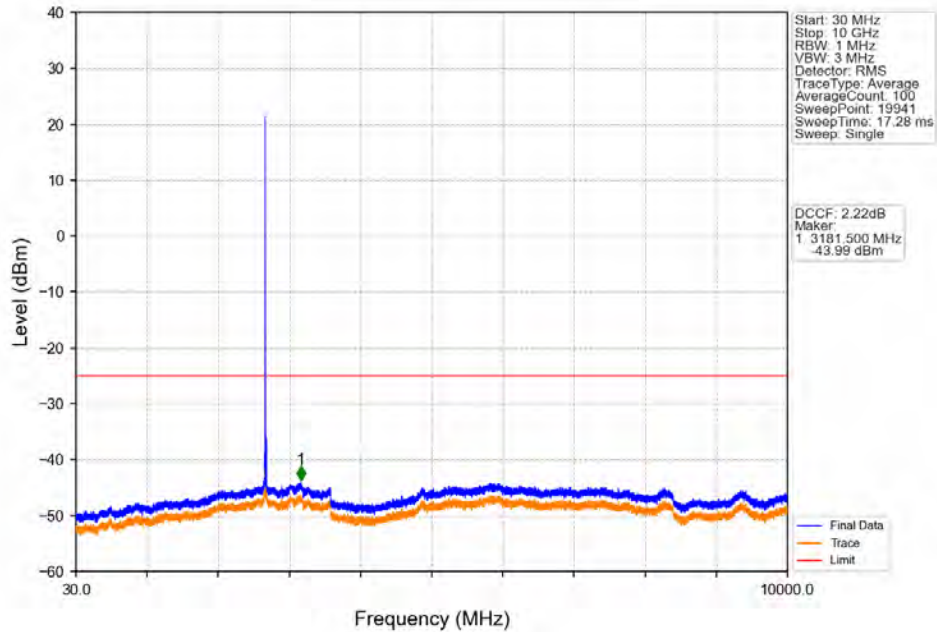
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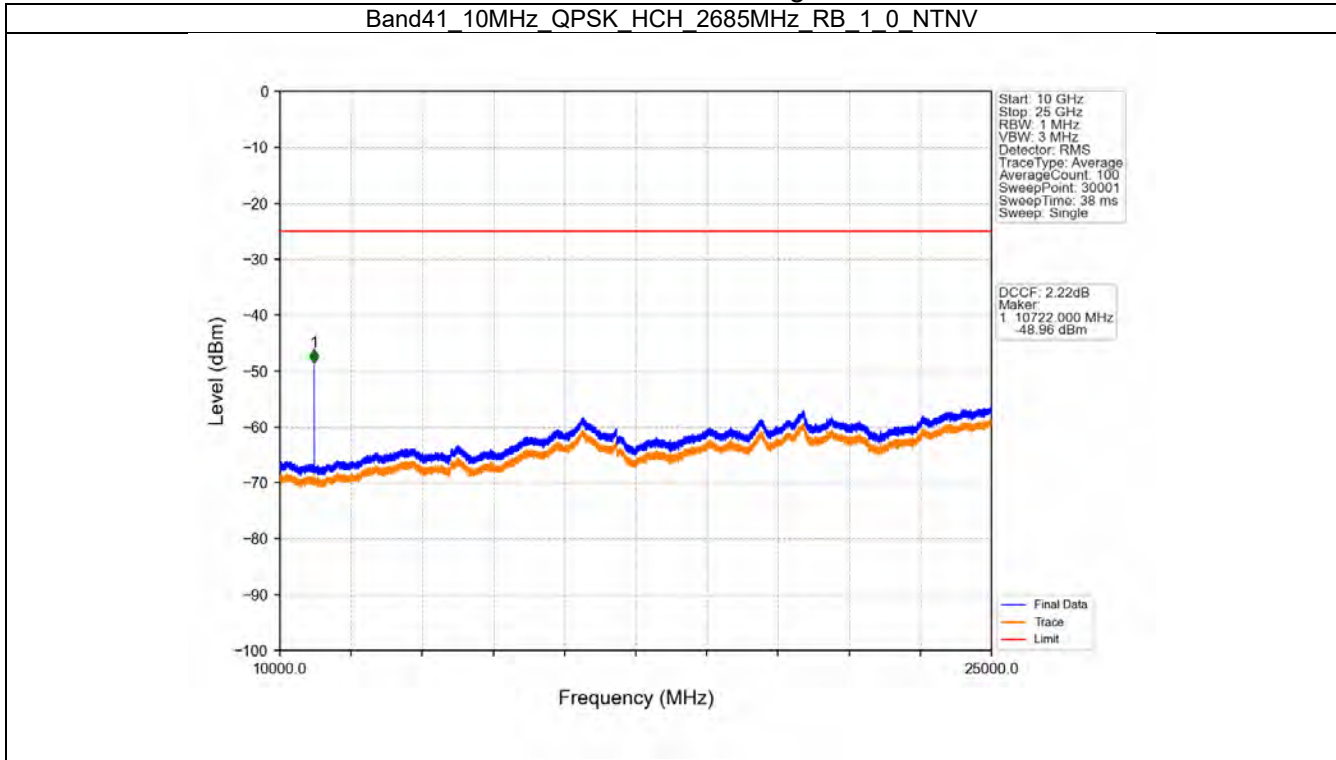
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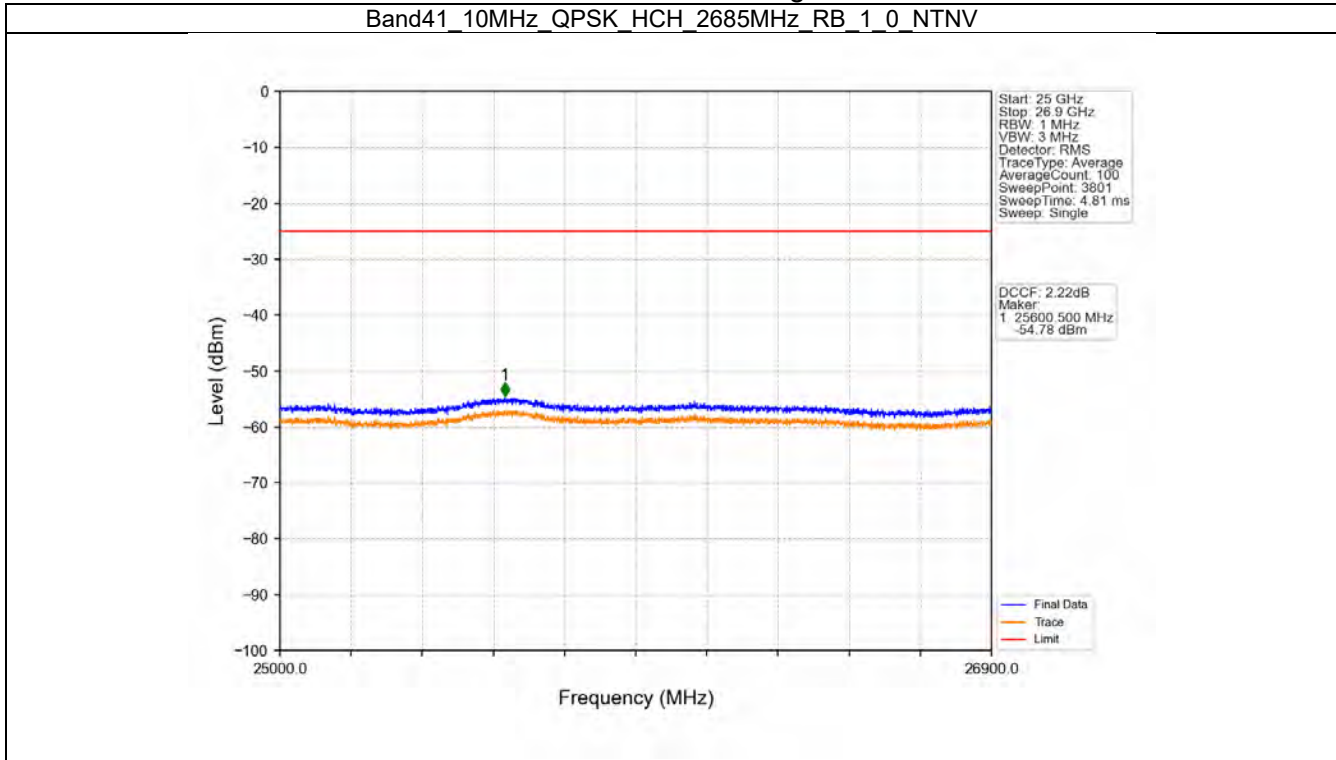
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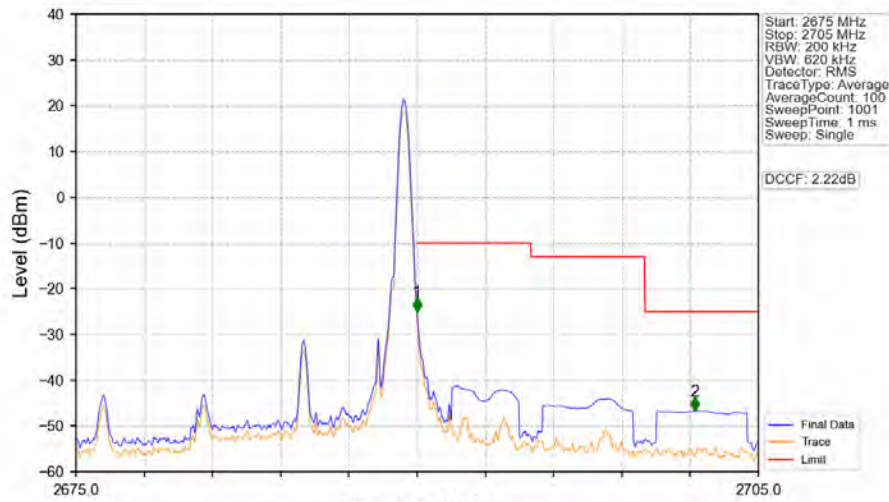
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Band41_10MHz_QPSK_HCH_2685MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.2	/	1	2690.000	-25.02	-10	Pass
2691	2705	1	CHP	2	2702.210	-46.73	-25	Pass



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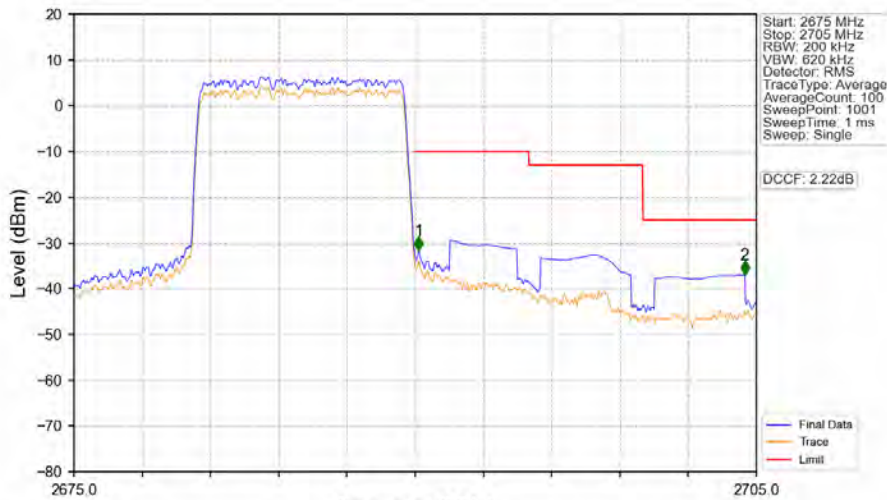
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Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.2	/	1	2690.150	-31.66	-10	Pass
2691	2705	1	CHP	2	2704.490	-36.97	-25	Pass



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5.3 B41_15MHz

5.3.1 Test Result

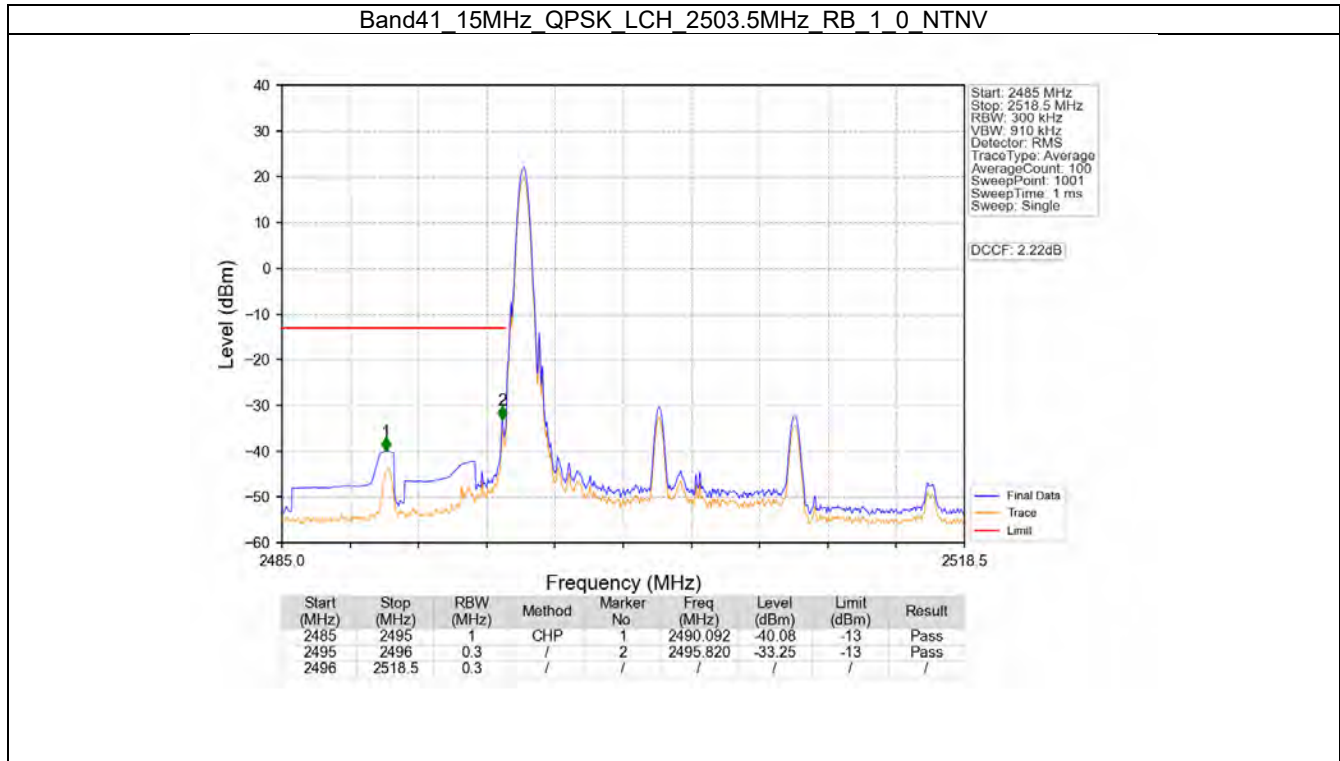
Band: 41 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2682.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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5.3.2 Test Graph

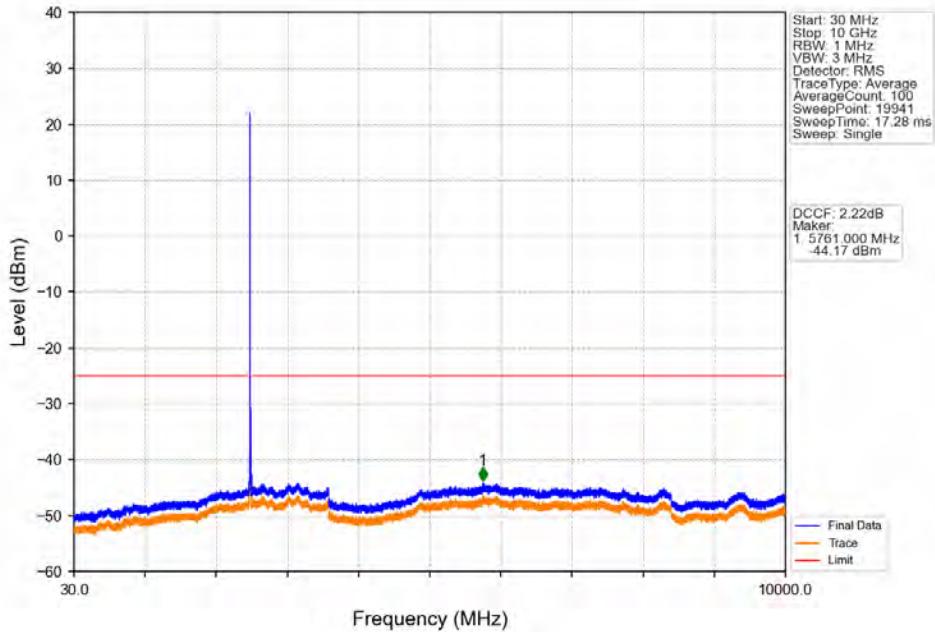


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Band41_15MHz_QPSK_LCH_2503.5MHz_RB_1_0_NTNV



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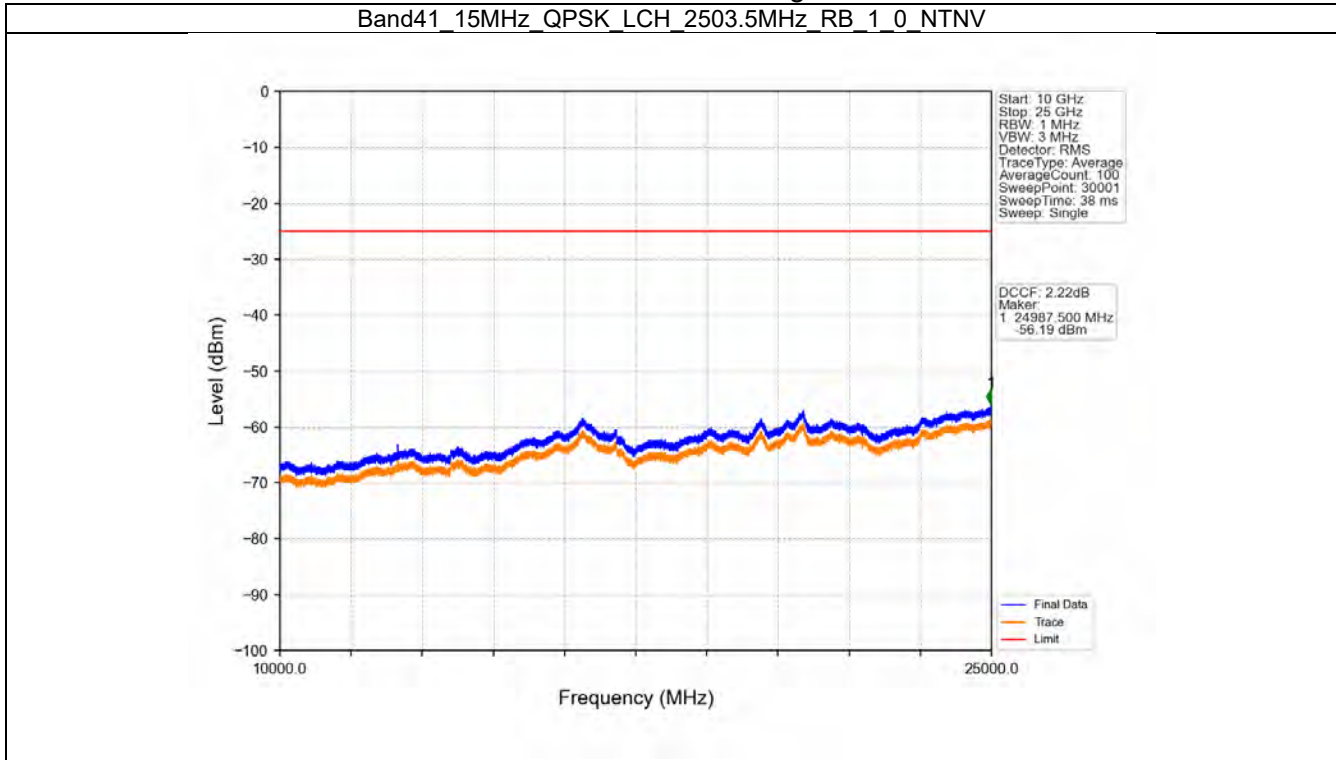
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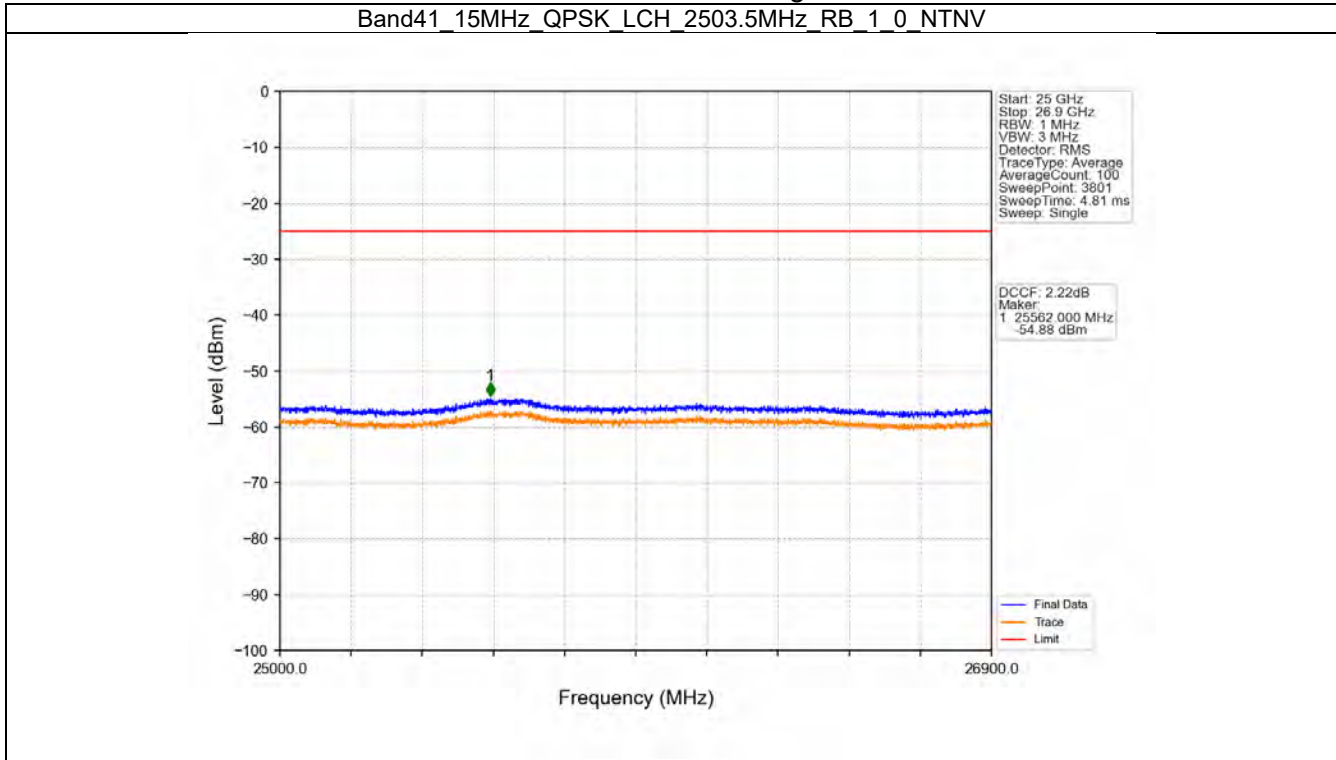
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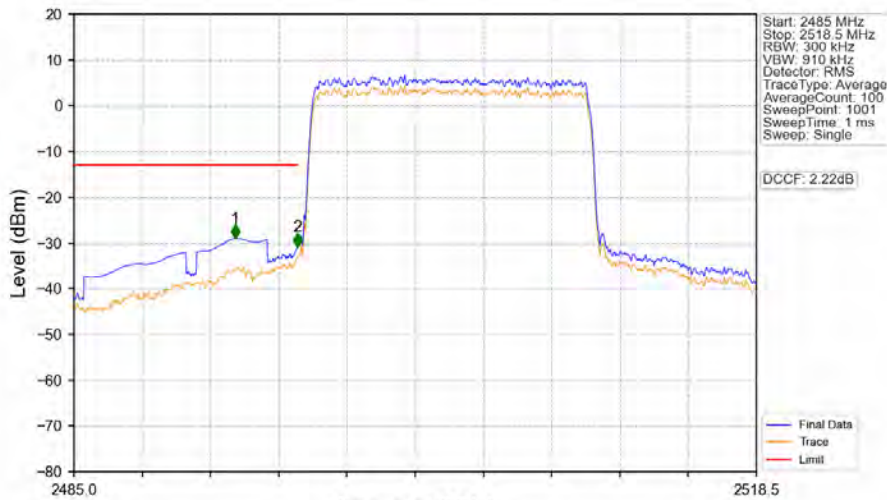
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Band41 15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2492.906	-29.02	-13	Pass
2495	2496	0.3	/	2	2495.988	-30.88	-13	Pass
2496	2518.5	0.3	/	/	/	/	/	/

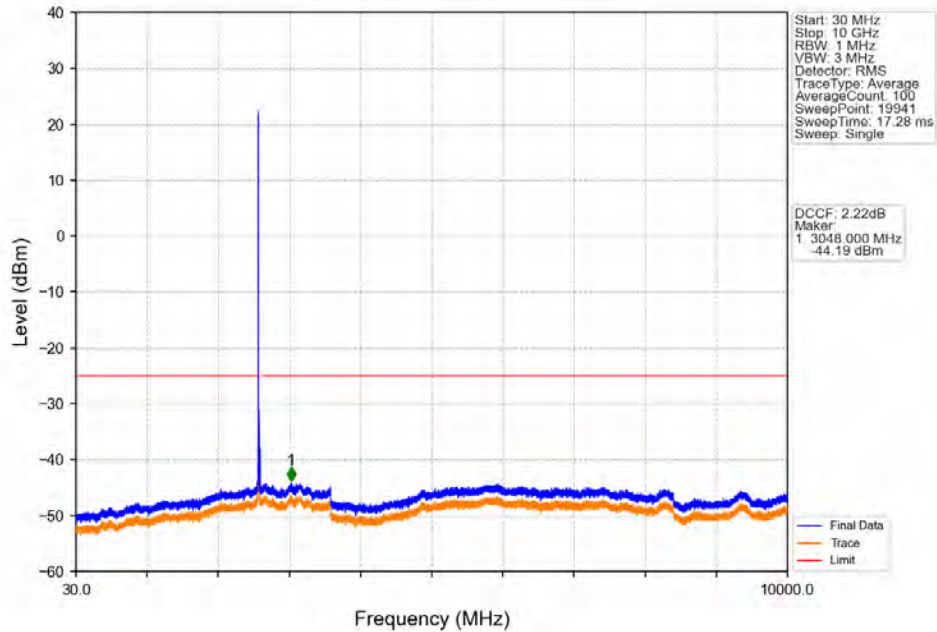


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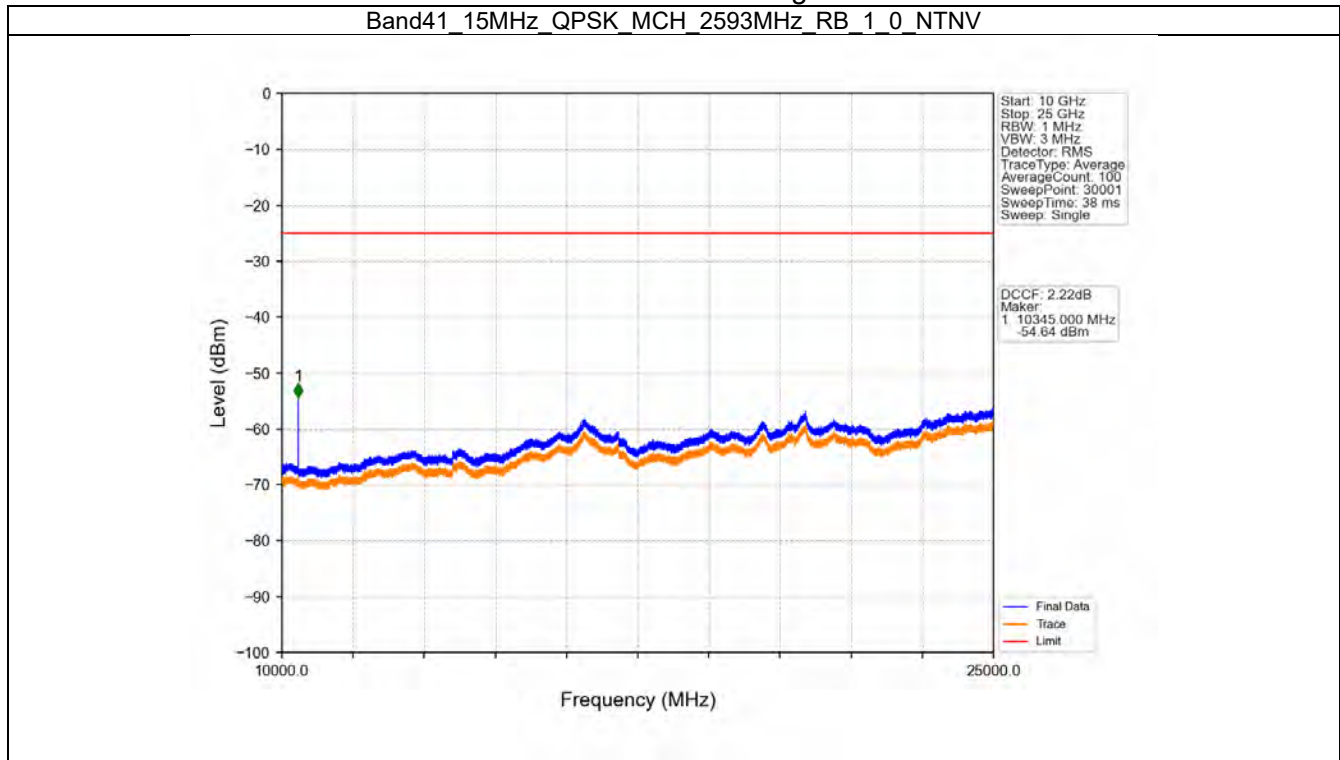
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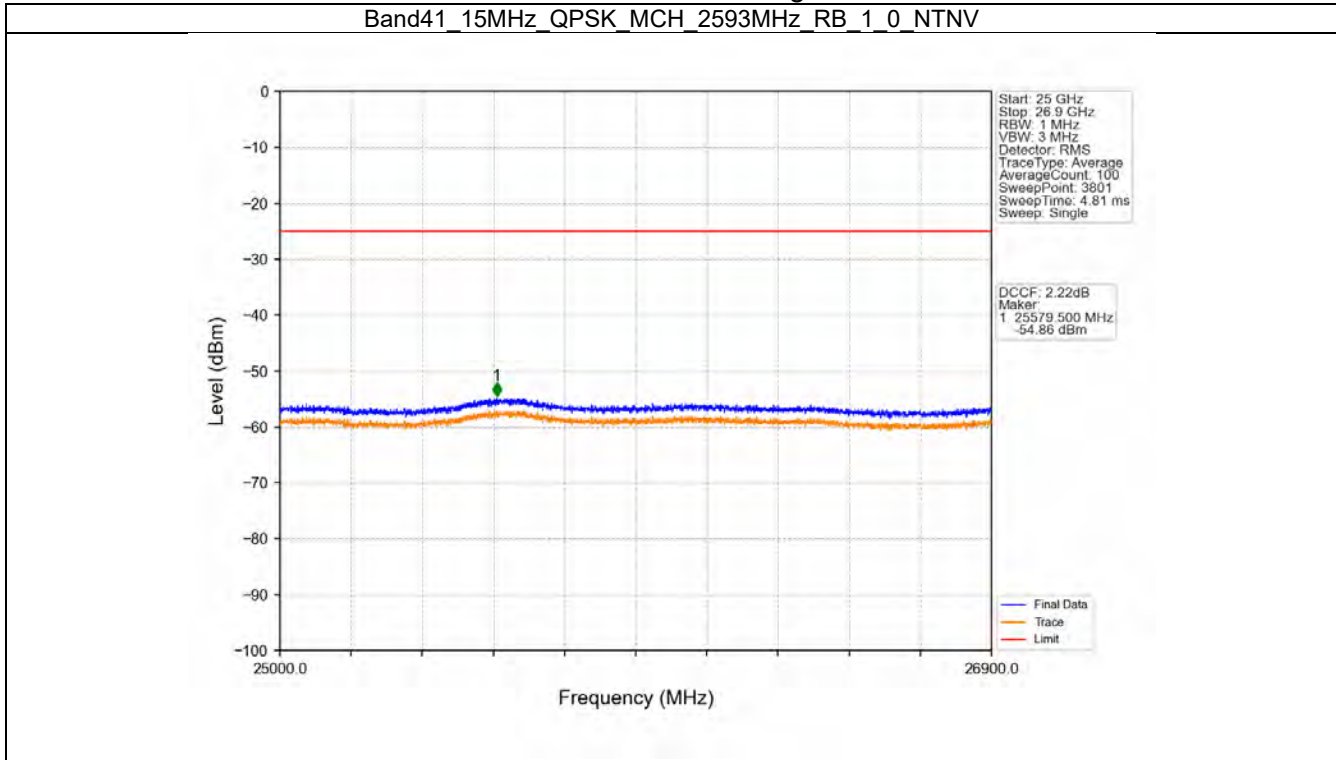
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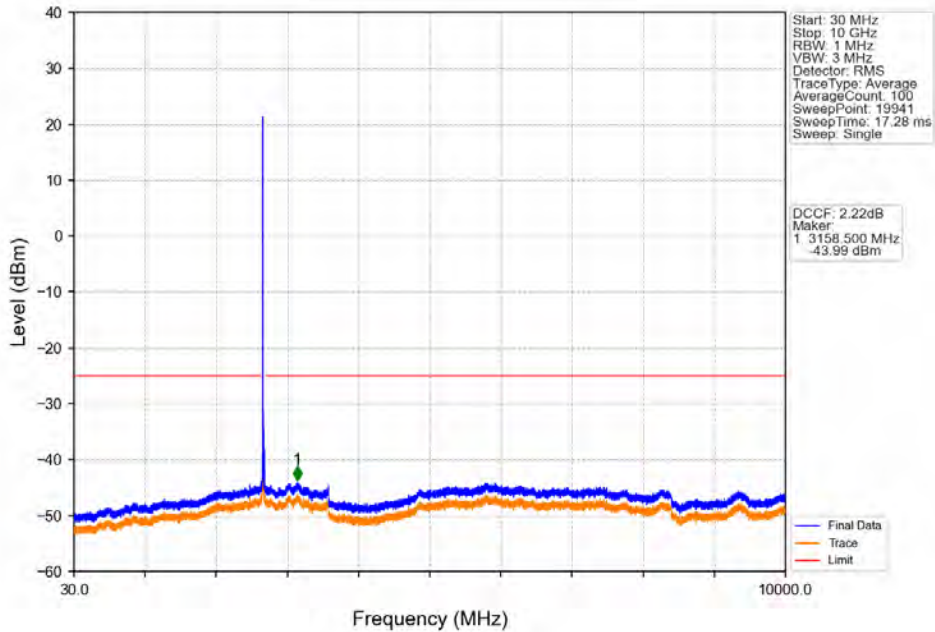
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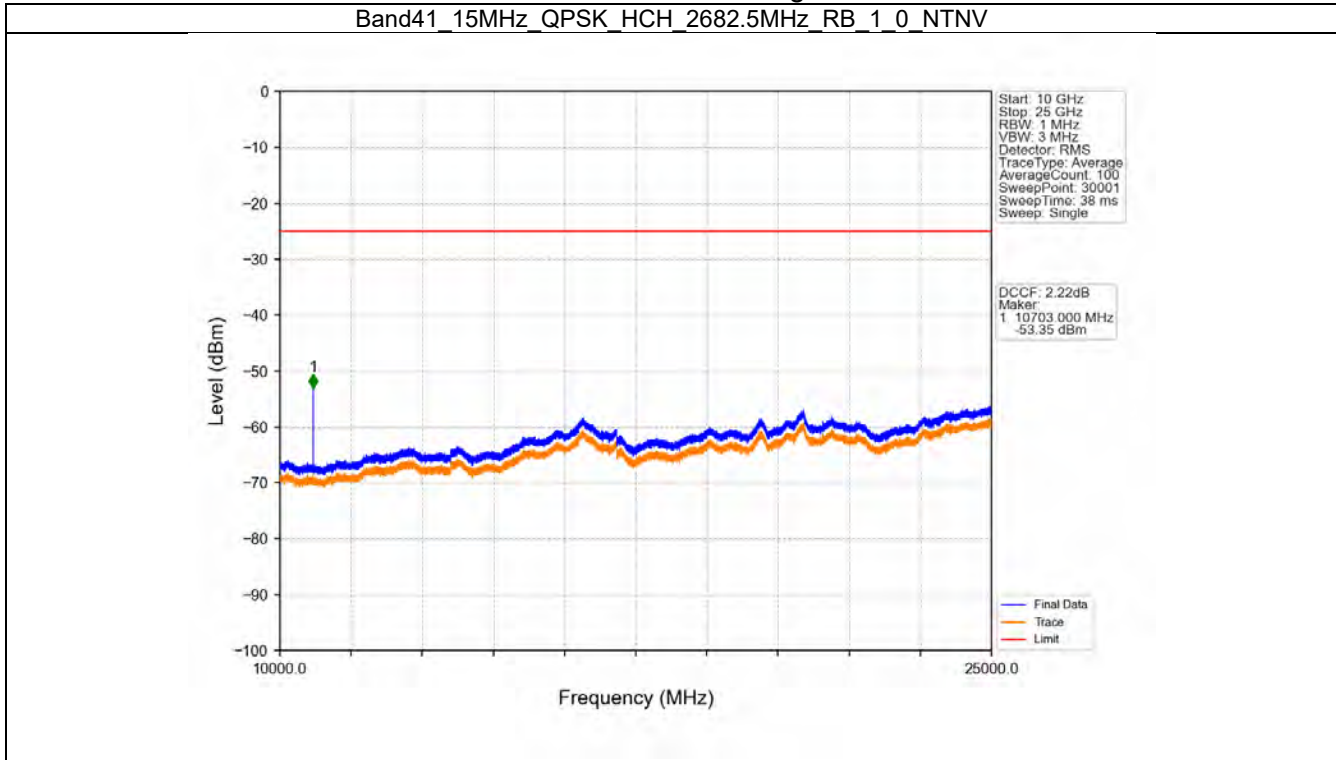
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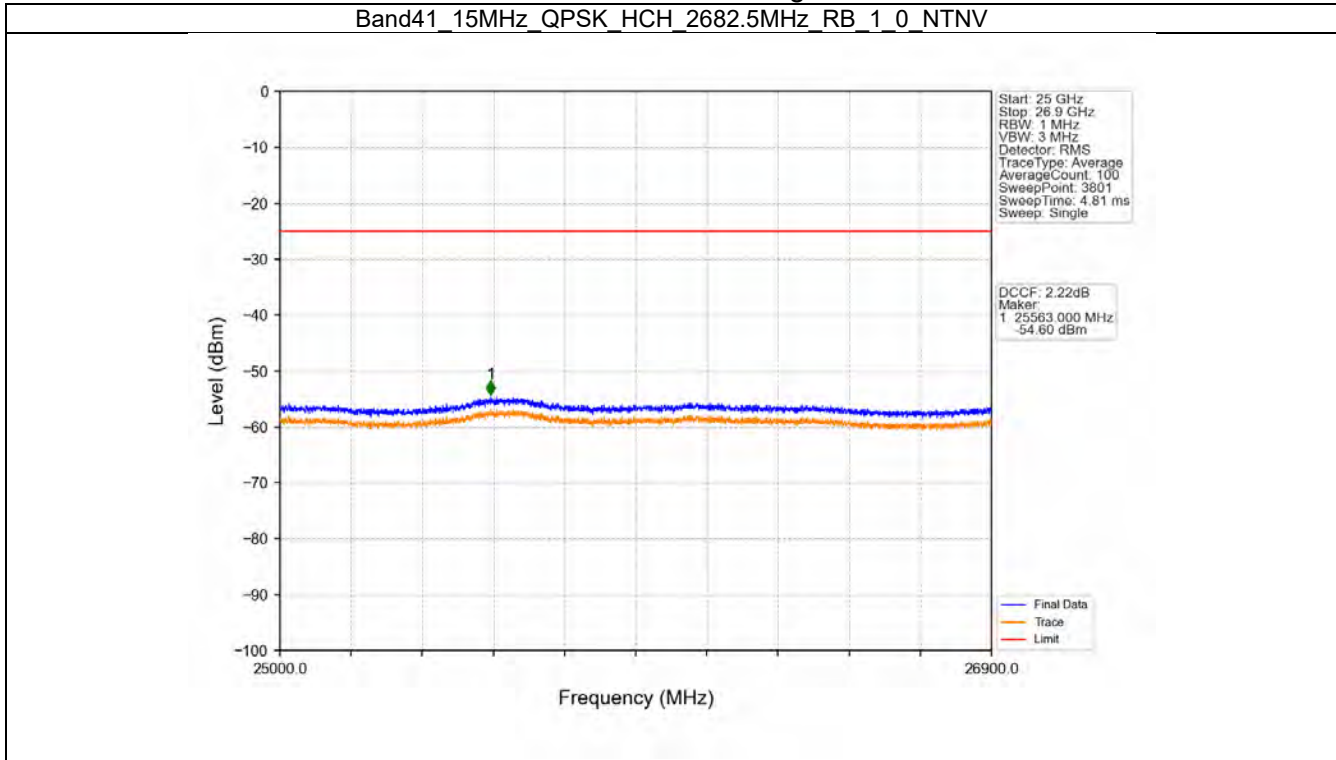
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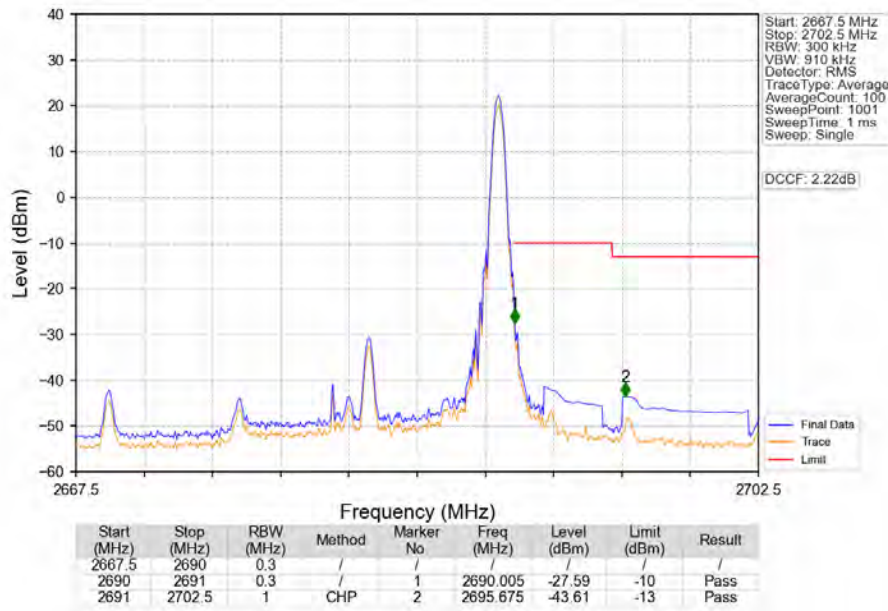
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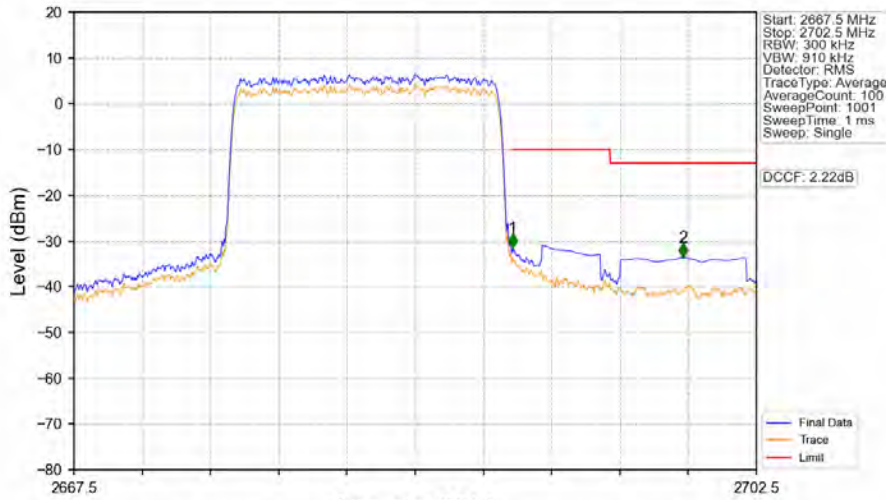
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2667.5	2690	0.3	/	/	/	/	/	/
2690	2691	0.3	/	1	2690.005	-31.45	-10	Pass
2691	2702.5	1	CHP	2	2698.755	-33.64	-13	Pass



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5.4 B41_20MHz

5.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2680	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

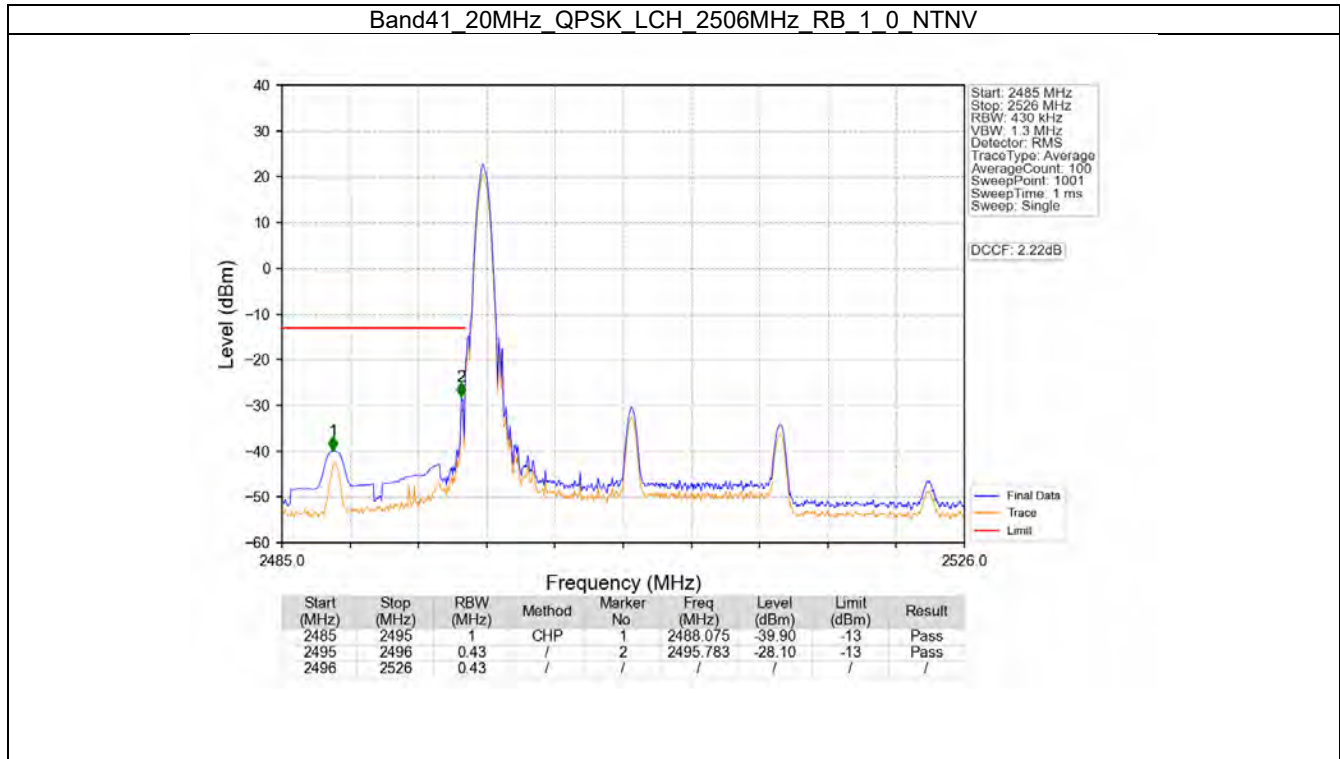


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5.4.2 Test Graph



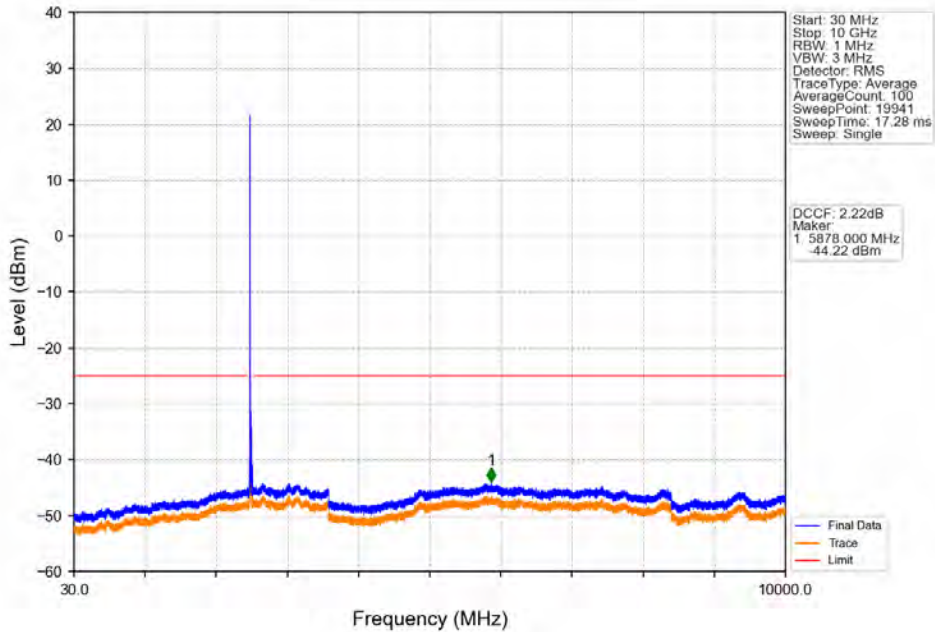
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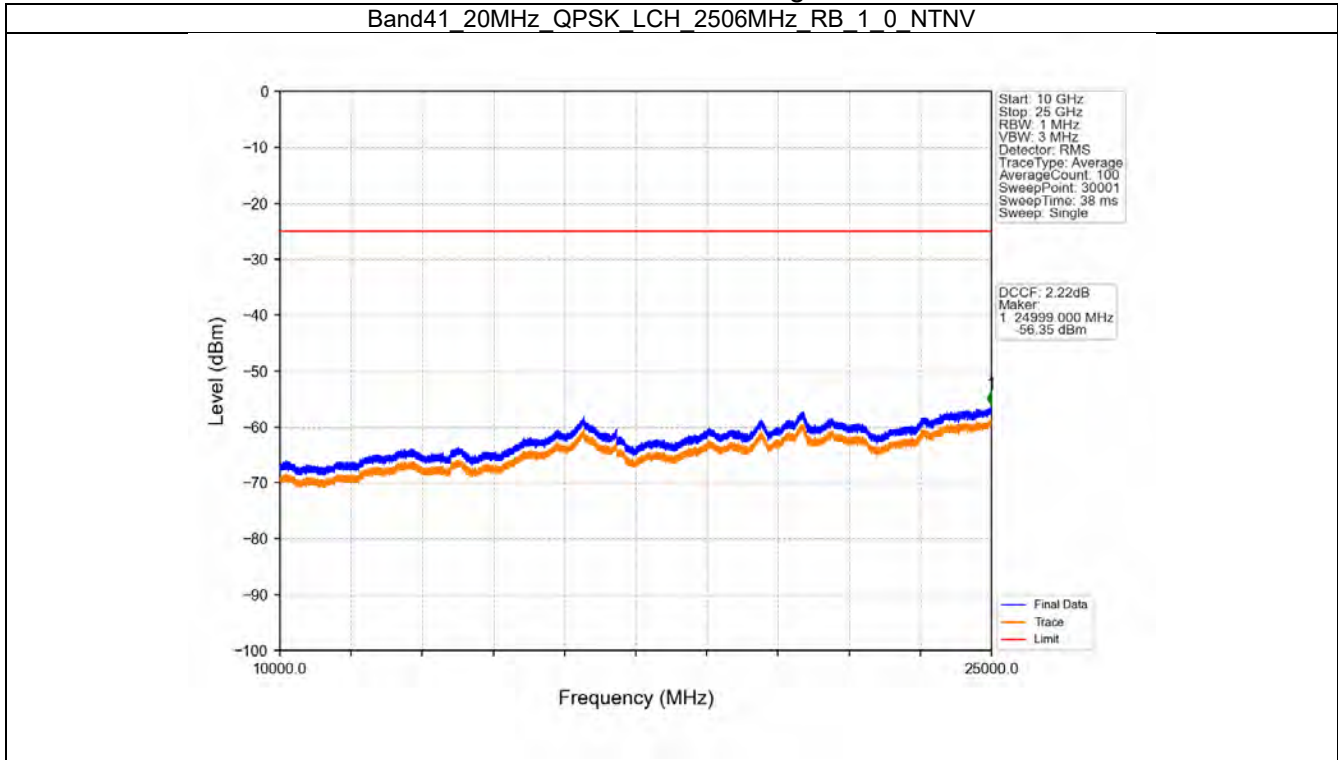
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Band41_20MHz_QPSK_LCH_2506MHz_RB_1_0_NTNV



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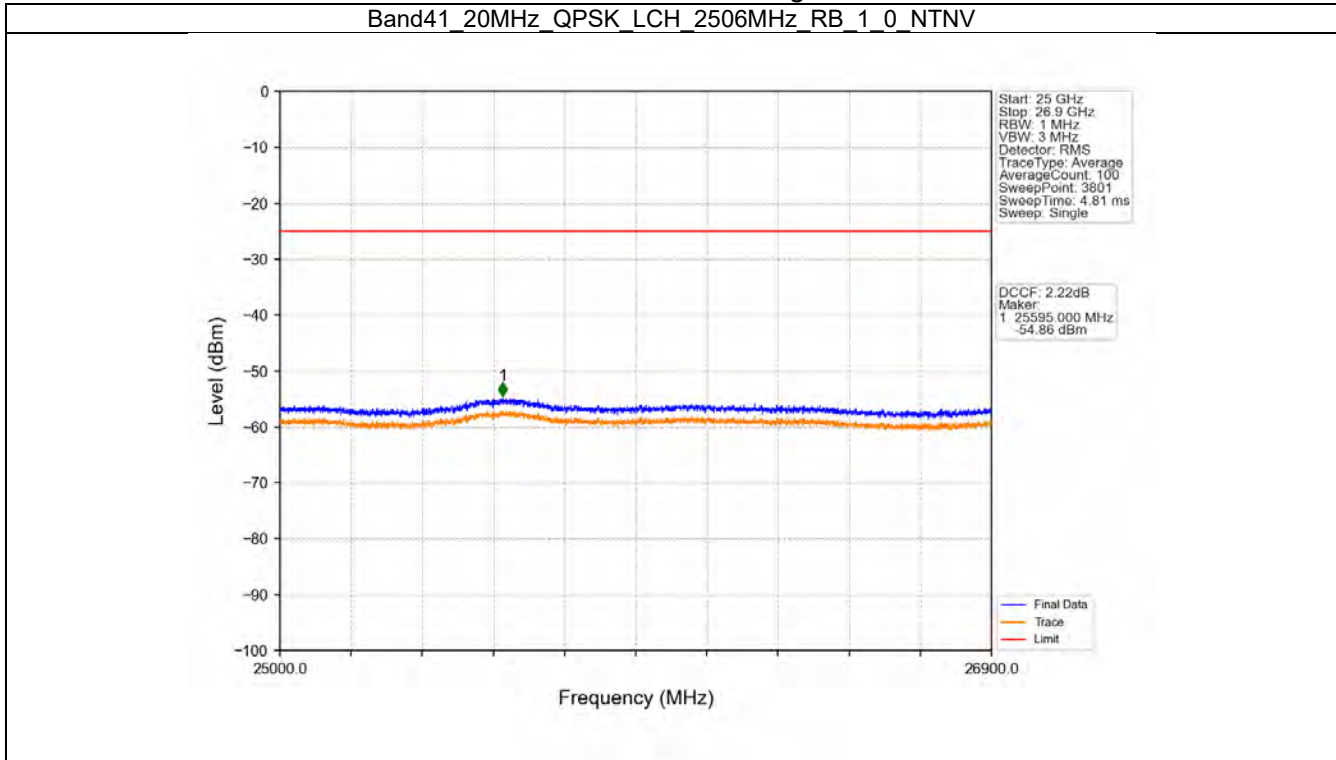
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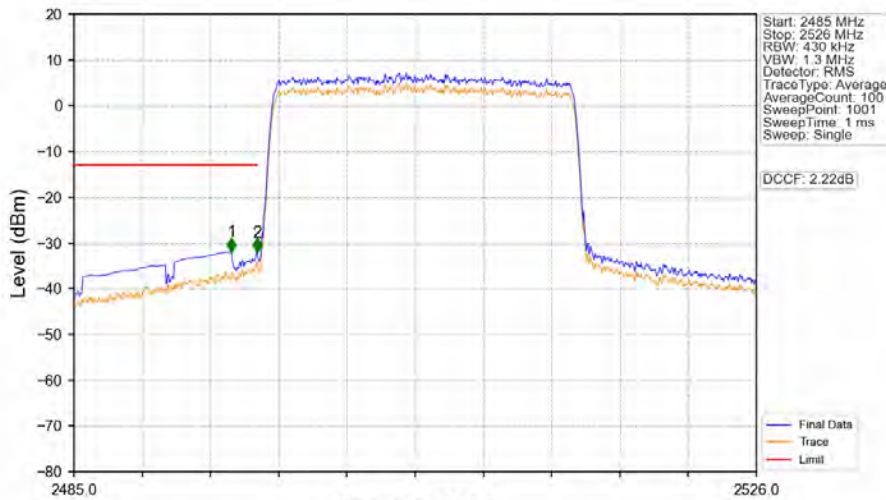
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Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2494.471	-31.96	-13	Pass
2495	2496	0.43	/	2	2495.988	-32.04	-13	Pass
2496	2526	0.43	/	/	/	/	/	/



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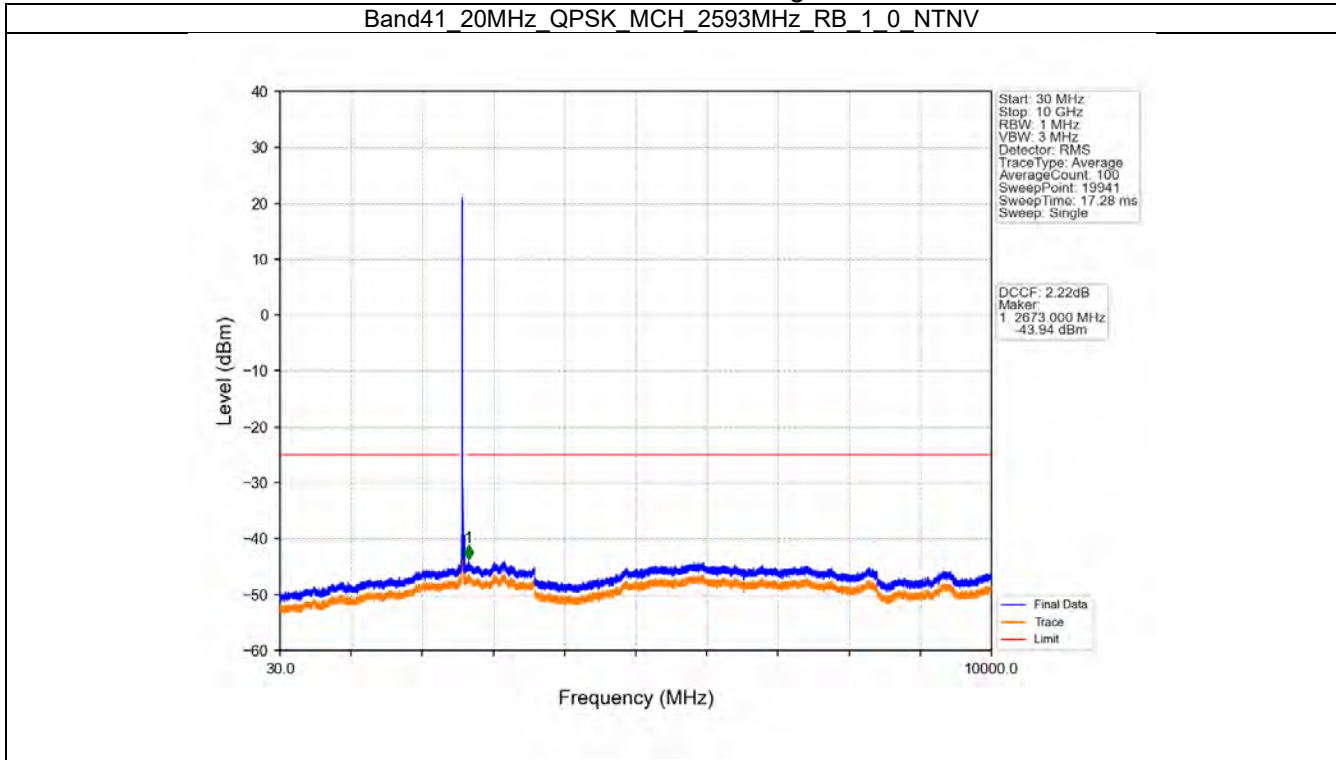
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Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



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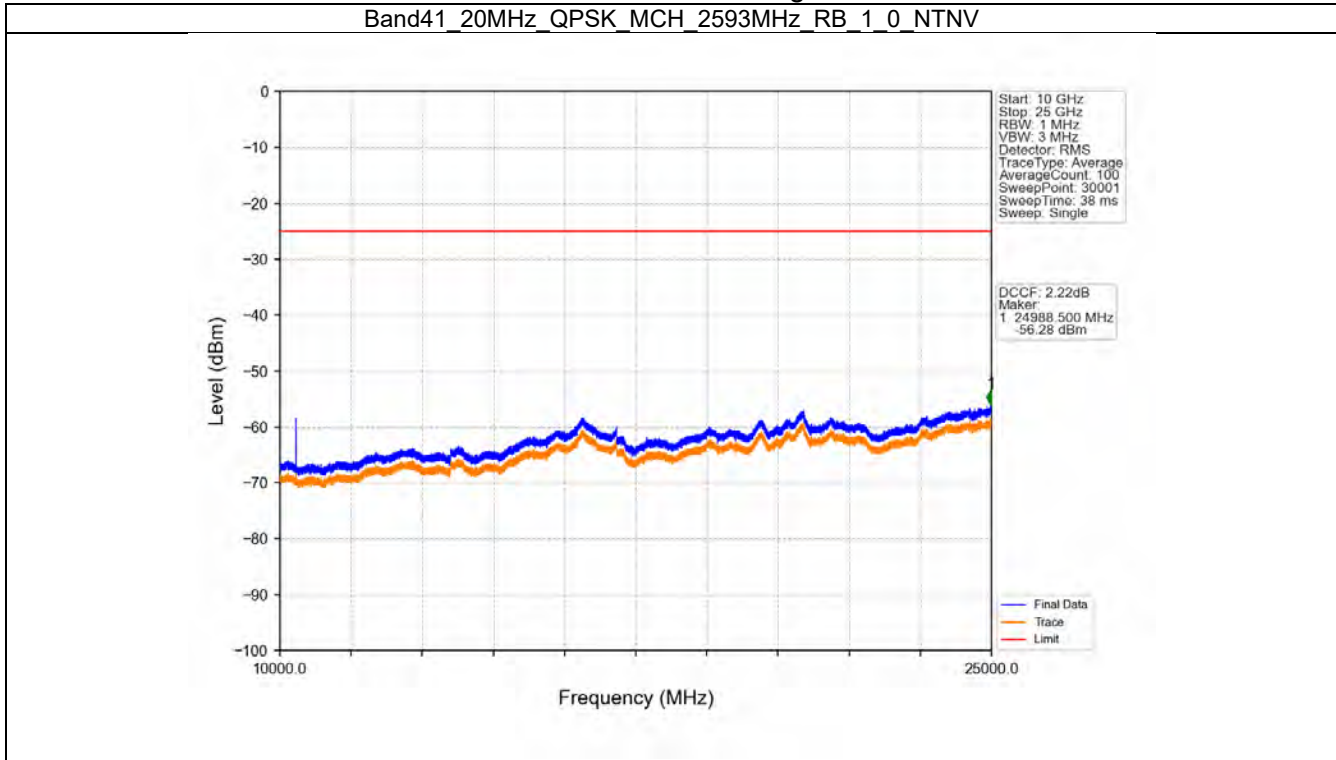
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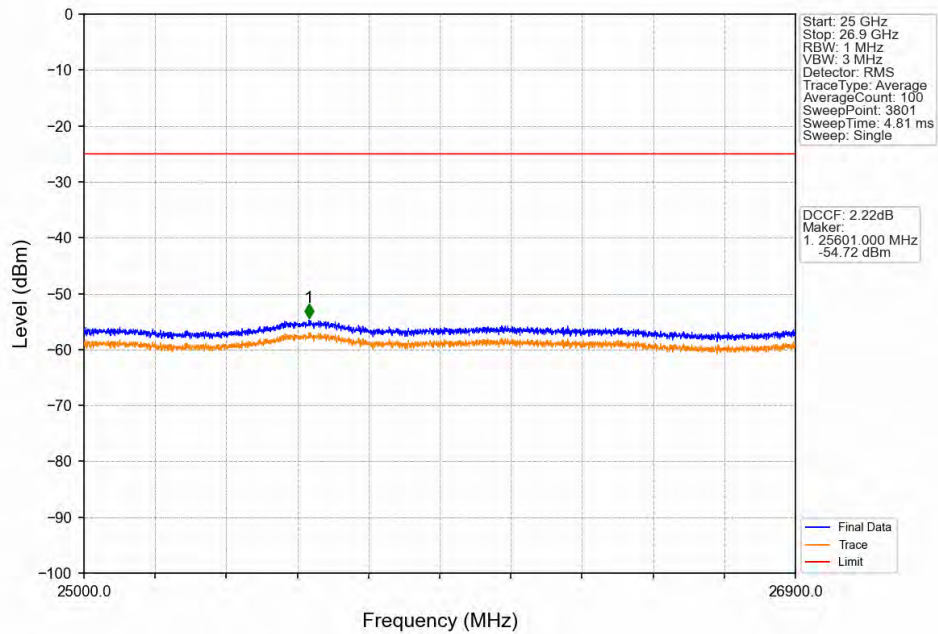
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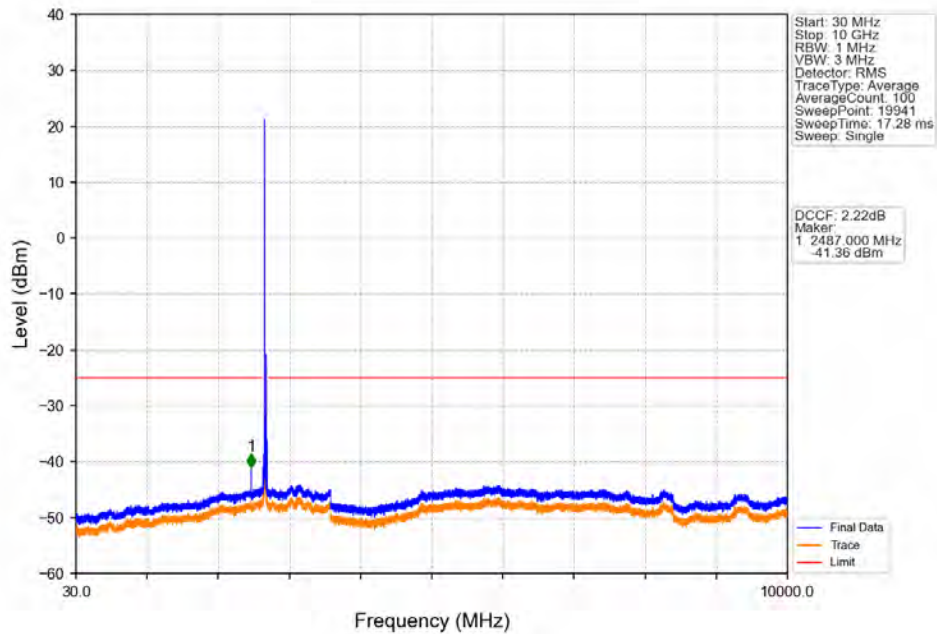
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Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



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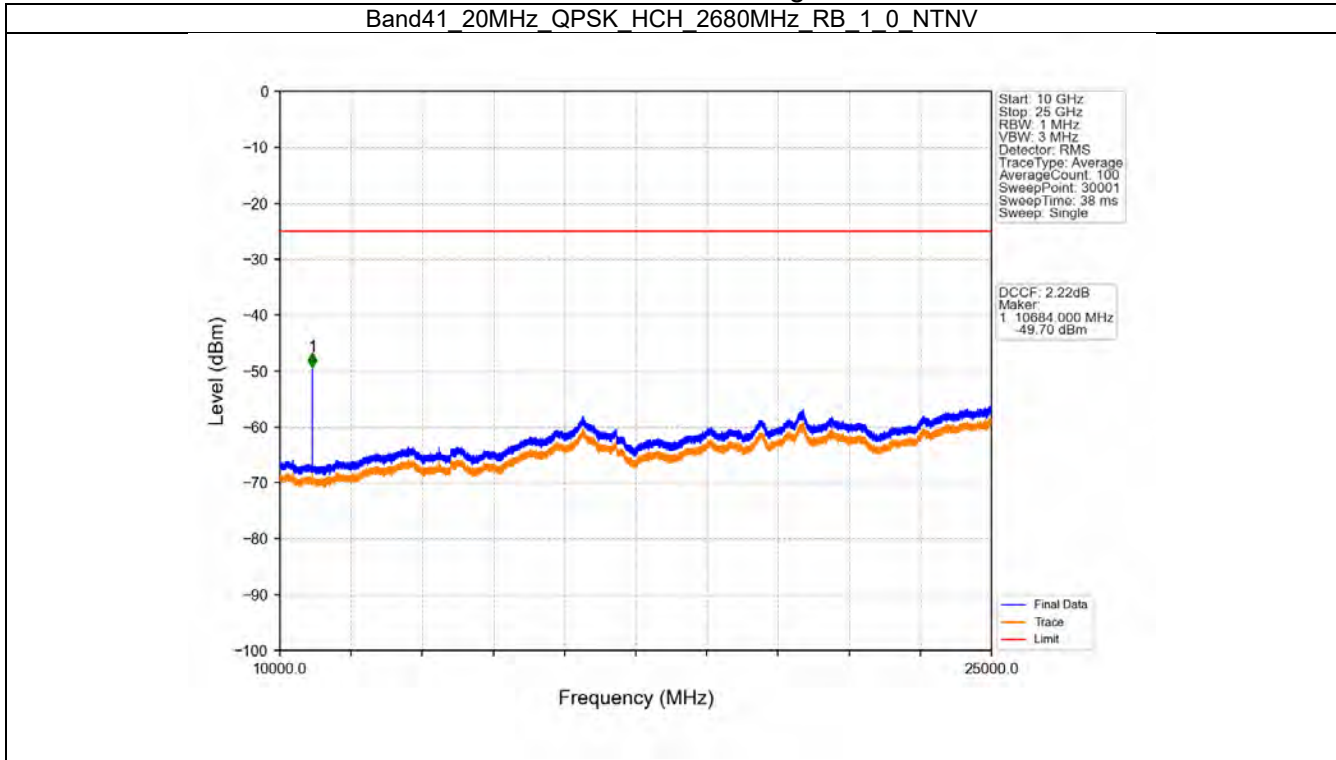
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Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



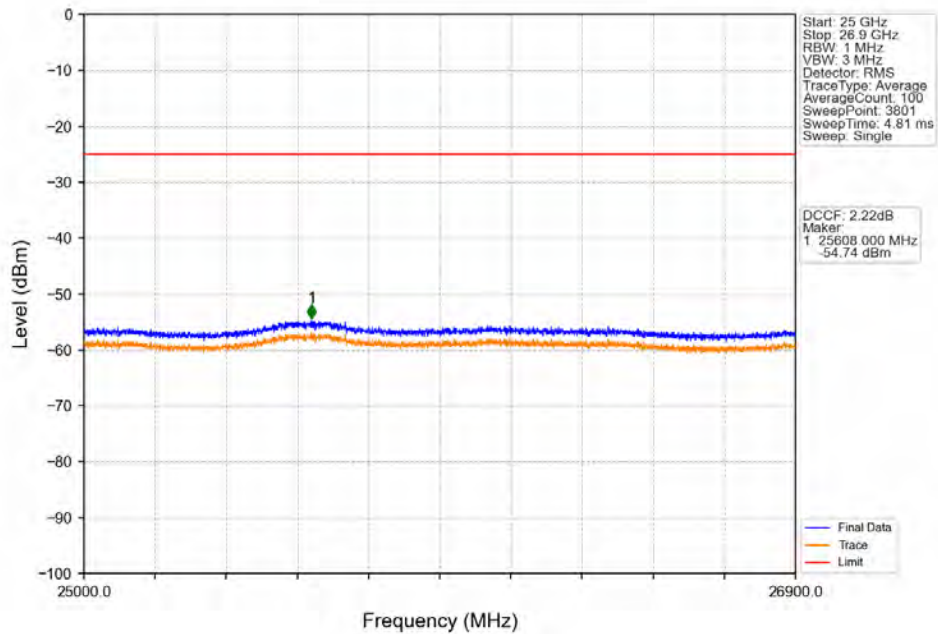
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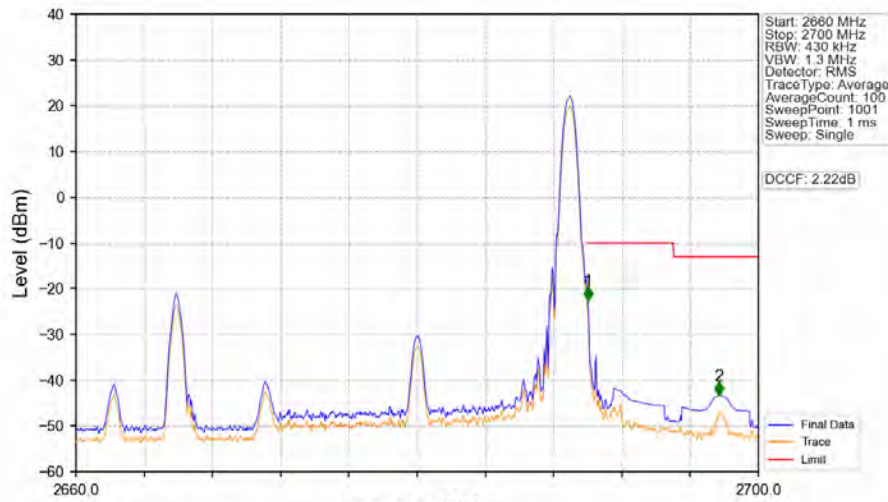
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2660	2690	0.43	/	1	2690.000	-22.67	-10	Pass
2691	2700	1	CHP	2	2697.660	-43.42	-13	Pass



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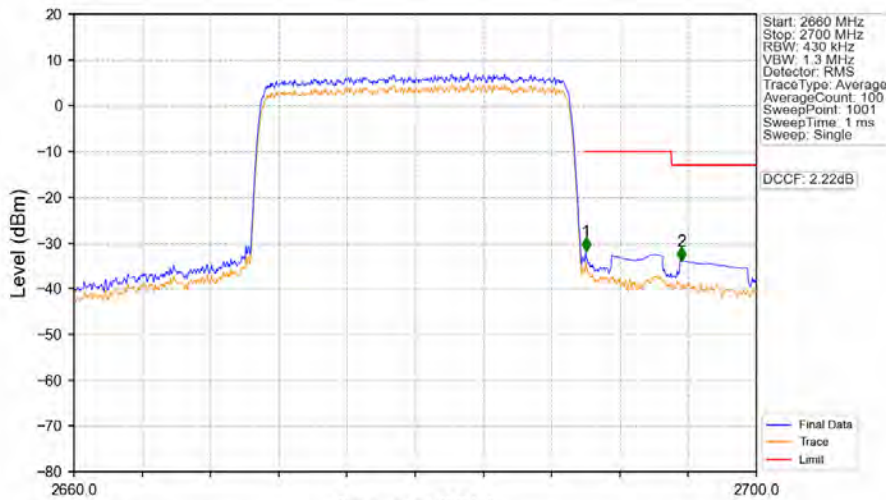
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Band41 20MHz_QPSK_HCH_2680MHz_RB 100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2660	2690	0.43	/	1	2690.000	-31.87	-10	Pass
2691	2700	1	CHP	2	2695.600	-33.92	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 41_ 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	4994.18	37.89	-41.46	33.19	-65.64	-25.00	40.64	Horizontal
2	7491.27	33.09	-37.79	36.59	-63.37	-25.00	38.37	Horizontal
3	9988.36	36.04	-32.43	37.90	-53.75	-25.00	28.75	Horizontal
4	12485.45	28.47	-29.85	38.98	-57.66	-25.00	32.66	Horizontal
5	14982.54	29.06	-28.17	40.10	-54.27	-25.00	29.27	Horizontal
6	17479.63	26.82	-24.60	40.05	-52.99	-25.00	27.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994.18	37.60	-41.46	33.19	-65.93	-25.00	40.93	Vertical
2	7491.27	33.86	-37.79	36.59	-62.60	-25.00	37.60	Vertical
3	9988.36	31.28	-32.43	37.90	-58.51	-25.00	33.51	Vertical
4	12485.45	29.09	-29.85	38.98	-57.04	-25.00	32.04	Vertical
5	14982.54	29.43	-28.17	40.10	-53.90	-25.00	28.90	Vertical
6	17479.63	27.05	-24.60	40.05	-52.76	-25.00	27.76	Vertical



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Test Band = LTE Band 41_ 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	5168	42.22	-40.96	33.17	-60.83	-25.00	35.83	Horizontal
2	17680	29.39	-24.37	40.53	-49.71	-25.00	24.71	Horizontal
3	7752.27	32.58	-37.04	36.85	-62.87	-25.00	37.87	Horizontal
4	10336.36	37.19	-31.94	38.07	-51.94	-25.00	26.94	Horizontal
5	12920.45	29.40	-29.92	39.50	-56.27	-25.00	31.27	Horizontal
6	15504.54	28.01	-27.86	39.14	-55.97	-25.00	30.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	10336	35.39	-31.94	38.07	-53.74	-25.00	28.74	Vertical
2	17660.5	29.68	-24.44	40.49	-49.54	-25.00	24.54	Vertical
3	5168.18	37.52	-40.96	33.17	-65.53	-25.00	40.53	Vertical
4	7752.27	33.19	-37.04	36.85	-62.26	-25.00	37.26	Vertical
5	12920.45	29.60	-29.92	39.50	-56.07	-25.00	31.07	Vertical
6	15504.54	28.73	-27.86	39.14	-55.25	-25.00	30.25	Vertical



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Test Band = LTE Band 41_ 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	5255	37.03	-40.87	33.15	-65.95	-25.00	40.95	Horizontal
2	17807	29.11	-23.67	40.84	-48.98	-25.00	23.98	Horizontal
3	7882.77	32.64	-36.68	36.98	-62.32	-25.00	37.32	Horizontal
4	10510.36	37.75	-31.19	38.16	-50.54	-25.00	25.54	Horizontal
5	13137.95	28.75	-29.34	39.70	-56.15	-25.00	31.15	Horizontal
6	15765.54	28.61	-27.85	38.64	-55.86	-25.00	30.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	10510	37.77	-31.19	38.16	-50.52	-25.00	25.52	Vertical
2	17824	29.02	-23.91	40.88	-49.27	-25.00	24.27	Vertical
3	5255.18	35.65	-40.87	33.15	-67.33	-25.00	42.33	Vertical
4	7882.77	32.33	-36.68	36.98	-62.63	-25.00	37.63	Vertical
5	13137.95	28.27	-29.34	39.70	-56.63	-25.00	31.63	Vertical
6	15765.54	28.10	-27.85	38.64	-56.37	-25.00	31.37	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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