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Appendix B.7

LTE Band 7



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

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1. Effective (Isotropic) Radiated Power Output Data

1.1 B7_5MHz_EIRP (NPANT002)

1.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2502.5	1	0	23.20	3.16	26.36	<=33.00	Pass
			13	23.30	3.16	26.46	<=33.00	Pass
			24	23.23	3.16	26.39	<=33.00	Pass
		12	0	22.26	3.16	25.42	<=33.00	Pass
			6	22.27	3.16	25.43	<=33.00	Pass
			13	22.26	3.16	25.42	<=33.00	Pass
		25	0	22.30	3.16	25.46	<=33.00	Pass
	2535	1	0	23.31	3.16	26.47	<=33.00	Pass
			13	23.33	3.16	26.49	<=33.00	Pass
			24	23.29	3.16	26.45	<=33.00	Pass
		12	0	22.31	3.16	25.47	<=33.00	Pass
			6	22.35	3.16	25.51	<=33.00	Pass
			13	22.33	3.16	25.49	<=33.00	Pass
		25	0	22.31	3.16	25.47	<=33.00	Pass
	2567.5	1	0	23.30	3.16	26.46	<=33.00	Pass
			13	23.37	3.16	26.53	<=33.00	Pass
			24	23.27	3.16	26.43	<=33.00	Pass
		12	0	22.37	3.16	25.53	<=33.00	Pass
			6	22.36	3.16	25.52	<=33.00	Pass
			13	22.35	3.16	25.51	<=33.00	Pass
		25	0	22.39	3.16	25.55	<=33.00	Pass
16QAM	2502.5	1	0	22.13	3.16	25.29	<=33.00	Pass
			13	22.21	3.16	25.37	<=33.00	Pass
			24	22.12	3.16	25.28	<=33.00	Pass
		12	0	21.25	3.16	24.41	<=33.00	Pass
			6	21.29	3.16	24.45	<=33.00	Pass
			13	21.26	3.16	24.42	<=33.00	Pass
		25	0	21.28	3.16	24.44	<=33.00	Pass
	2535	1	0	22.53	3.16	25.69	<=33.00	Pass
			13	22.64	3.16	25.80	<=33.00	Pass
			24	22.52	3.16	25.68	<=33.00	Pass
		12	0	21.33	3.16	24.49	<=33.00	Pass
			6	21.38	3.16	24.54	<=33.00	Pass
			13	21.36	3.16	24.52	<=33.00	Pass
		25	0	21.29	3.16	24.45	<=33.00	Pass
	2567.5	1	0	22.42	3.16	25.58	<=33.00	Pass
			13	22.50	3.16	25.66	<=33.00	Pass
			24	22.46	3.16	25.62	<=33.00	Pass
		12	0	21.37	3.16	24.53	<=33.00	Pass
			6	21.39	3.16	24.55	<=33.00	Pass



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		13	21.39	3.16	24.55	<=33.00	Pass
	25	0	21.40	3.16	24.56	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain							



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1.2 B7_10MHz_EIRP

1.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2505	1	0	23.21	3.16	26.37	<=33.00	Pass
			25	23.22	3.16	26.38	<=33.00	Pass
			49	23.21	3.16	26.37	<=33.00	Pass
		25	0	22.31	3.16	25.47	<=33.00	Pass
			13	22.30	3.16	25.46	<=33.00	Pass
			25	22.29	3.16	25.45	<=33.00	Pass
		50	0	22.40	3.16	25.56	<=33.00	Pass
	2535	1	0	23.27	3.16	26.43	<=33.00	Pass
			25	23.23	3.16	26.39	<=33.00	Pass
			49	23.24	3.16	26.40	<=33.00	Pass
		25	0	22.33	3.16	25.49	<=33.00	Pass
			13	22.38	3.16	25.54	<=33.00	Pass
			25	22.33	3.16	25.49	<=33.00	Pass
		50	0	22.33	3.16	25.49	<=33.00	Pass
	2565	1	0	23.31	3.16	26.47	<=33.00	Pass
			25	23.29	3.16	26.45	<=33.00	Pass
			49	23.32	3.16	26.48	<=33.00	Pass
		25	0	22.40	3.16	25.56	<=33.00	Pass
			13	22.38	3.16	25.54	<=33.00	Pass
			25	22.38	3.16	25.54	<=33.00	Pass
		50	0	22.35	3.16	25.51	<=33.00	Pass
16QAM	2505	1	0	22.91	3.16	26.07	<=33.00	Pass
			25	22.91	3.16	26.07	<=33.00	Pass
			49	22.79	3.16	25.95	<=33.00	Pass
		25	0	21.31	3.16	24.47	<=33.00	Pass
			13	21.36	3.16	24.52	<=33.00	Pass
			25	21.48	3.16	24.64	<=33.00	Pass
		50	0	21.32	3.16	24.48	<=33.00	Pass
	2535	1	0	22.41	3.16	25.57	<=33.00	Pass
			25	22.39	3.16	25.55	<=33.00	Pass
			49	22.47	3.16	25.63	<=33.00	Pass
		25	0	21.34	3.16	24.50	<=33.00	Pass
			13	21.34	3.16	24.50	<=33.00	Pass
			25	21.34	3.16	24.50	<=33.00	Pass
		50	0	21.33	3.16	24.49	<=33.00	Pass
	2565	1	0	22.36	3.16	25.52	<=33.00	Pass
			25	22.33	3.16	25.49	<=33.00	Pass
			49	22.32	3.16	25.48	<=33.00	Pass
		25	0	21.43	3.16	24.59	<=33.00	Pass
			13	21.46	3.16	24.62	<=33.00	Pass
			25	21.44	3.16	24.60	<=33.00	Pass
		50	0	21.41	3.16	24.57	<=33.00	Pass



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Note1: EIRP=Conducted Power+Antenna Gain



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1.3 B7_15MHz_EIRP

1.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	23.19	3.16	26.35	<=33.00	Pass
			38	23.18	3.16	26.34	<=33.00	Pass
			74	23.40	3.16	26.56	<=33.00	Pass
		36	0	22.40	3.16	25.56	<=33.00	Pass
			18	22.40	3.16	25.56	<=33.00	Pass
			39	22.43	3.16	25.59	<=33.00	Pass
		75	0	22.45	3.16	25.61	<=33.00	Pass
	2535	1	0	23.28	3.16	26.44	<=33.00	Pass
			38	23.27	3.16	26.43	<=33.00	Pass
			74	23.27	3.16	26.43	<=33.00	Pass
		36	0	22.39	3.16	25.55	<=33.00	Pass
			18	22.36	3.16	25.52	<=33.00	Pass
			39	22.32	3.16	25.48	<=33.00	Pass
		75	0	22.32	3.16	25.48	<=33.00	Pass
	2562.5	1	0	23.29	3.16	26.45	<=33.00	Pass
			38	23.26	3.16	26.42	<=33.00	Pass
			74	23.24	3.16	26.40	<=33.00	Pass
		36	0	22.36	3.16	25.52	<=33.00	Pass
			18	22.36	3.16	25.52	<=33.00	Pass
			39	22.38	3.16	25.54	<=33.00	Pass
		75	0	22.38	3.16	25.54	<=33.00	Pass
16QAM	2507.5	1	0	22.96	3.16	26.12	<=33.00	Pass
			38	22.96	3.16	26.12	<=33.00	Pass
			74	22.97	3.16	26.13	<=33.00	Pass
		36	0	21.46	3.16	24.62	<=33.00	Pass
			18	21.48	3.16	24.64	<=33.00	Pass
			39	21.48	3.16	24.64	<=33.00	Pass
		75	0	21.41	3.16	24.57	<=33.00	Pass
	2535	1	0	22.41	3.16	25.57	<=33.00	Pass
			38	22.43	3.16	25.59	<=33.00	Pass
			74	22.46	3.16	25.62	<=33.00	Pass
		36	0	21.39	3.16	24.55	<=33.00	Pass
			18	21.37	3.16	24.53	<=33.00	Pass
			39	21.38	3.16	24.54	<=33.00	Pass
		75	0	21.34	3.16	24.50	<=33.00	Pass
	2562.5	1	0	22.72	3.16	25.88	<=33.00	Pass
			38	22.67	3.16	25.83	<=33.00	Pass
			74	22.71	3.16	25.87	<=33.00	Pass
		36	0	21.40	3.16	24.56	<=33.00	Pass
			18	21.41	3.16	24.57	<=33.00	Pass
			39	21.35	3.16	24.51	<=33.00	Pass
		75	0	21.34	3.16	24.50	<=33.00	Pass



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Note1: EIRP=Conducted Power+Antenna Gain



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1.4 B7_20MHz_EIRP

1.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	23.19	3.16	26.35	<=33.00	Pass
			50	23.23	3.16	26.39	<=33.00	Pass
			99	23.21	3.16	26.37	<=33.00	Pass
		50	0	22.28	3.16	25.44	<=33.00	Pass
			25	22.32	3.16	25.48	<=33.00	Pass
			50	22.22	3.16	25.38	<=33.00	Pass
		100	0	22.22	3.16	25.38	<=33.00	Pass
	2535	1	0	23.29	3.16	26.45	<=33.00	Pass
			50	23.27	3.16	26.43	<=33.00	Pass
			99	23.26	3.16	26.42	<=33.00	Pass
		50	0	22.37	3.16	25.53	<=33.00	Pass
			25	22.38	3.16	25.54	<=33.00	Pass
			50	22.33	3.16	25.49	<=33.00	Pass
		100	0	22.36	3.16	25.52	<=33.00	Pass
	2560	1	0	23.27	3.16	26.43	<=33.00	Pass
			50	23.27	3.16	26.43	<=33.00	Pass
			99	23.22	3.16	26.38	<=33.00	Pass
		50	0	22.36	3.16	25.52	<=33.00	Pass
			25	22.38	3.16	25.54	<=33.00	Pass
			50	22.39	3.16	25.55	<=33.00	Pass
		100	0	22.38	3.16	25.54	<=33.00	Pass
16QAM	2510	1	0	22.55	3.16	25.71	<=33.00	Pass
			50	22.52	3.16	25.68	<=33.00	Pass
			99	22.43	3.16	25.59	<=33.00	Pass
		50	0	21.30	3.16	24.46	<=33.00	Pass
			25	21.32	3.16	24.48	<=33.00	Pass
			50	21.23	3.16	24.39	<=33.00	Pass
		100	0	21.21	3.16	24.37	<=33.00	Pass
	2535	1	0	22.47	3.16	25.63	<=33.00	Pass
			50	22.47	3.16	25.63	<=33.00	Pass
			99	22.52	3.16	25.68	<=33.00	Pass
		50	0	21.35	3.16	24.51	<=33.00	Pass
			25	21.38	3.16	24.54	<=33.00	Pass
			50	21.32	3.16	24.48	<=33.00	Pass
		100	0	21.34	3.16	24.50	<=33.00	Pass
	2560	1	0	22.88	3.16	26.04	<=33.00	Pass
			50	22.82	3.16	25.98	<=33.00	Pass
			99	22.80	3.16	25.96	<=33.00	Pass
		50	0	21.41	3.16	24.57	<=33.00	Pass
			25	21.44	3.16	24.60	<=33.00	Pass
			50	21.38	3.16	24.54	<=33.00	Pass
		100	0	21.38	3.16	24.54	<=33.00	Pass



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Note1: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.4 B7_20MHz

2.4.1 Test Result

Band: 7 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2510	100	0	20	3.135	1.240	0.0005	/	Pass
					3.7	-1.199	-0.0005	/	Pass
					4.4	-0.515	-0.0002	/	Pass
				-30	3.7	2.116	0.0008	/	Pass
				-20	3.7	-7.861	-0.0031	/	Pass
				-10	3.7	5.644	0.0022	/	Pass
				0	3.7	-0.474	-0.0002	/	Pass
				10	3.7	-1.762	-0.0007	/	Pass
				30	3.7	-0.490	-0.0002	/	Pass
				40	3.7	1.157	0.0005	/	Pass
				50	3.7	-2.078	-0.0008	/	Pass
	2535	100	0	20	3.135	3.346	0.0013	/	Pass
					3.7	-7.852	-0.0031	/	Pass
					4.4	7.132	0.0028	/	Pass
				-30	3.7	5.324	0.0021	/	Pass
				-20	3.7	3.618	0.0014	/	Pass
				-10	3.7	5.167	0.0020	/	Pass
				0	3.7	1.854	0.0007	/	Pass
				10	3.7	0.727	0.0003	/	Pass
				30	3.7	3.261	0.0013	/	Pass
				40	3.7	7.632	0.0030	/	Pass
				50	3.7	7.968	0.0031	/	Pass
	2560	100	0	20	3.135	6.201	0.0024	/	Pass
					3.7	2.791	0.0011	/	Pass
					4.4	-0.141	-0.0001	/	Pass
				-30	3.7	12.084	0.0047	/	Pass
				-20	3.7	1.784	0.0007	/	Pass
				-10	3.7	13.813	0.0054	/	Pass
				0	3.7	2.516	0.0010	/	Pass
				10	3.7	16.067	0.0063	/	Pass
				30	3.7	8.859	0.0035	/	Pass
				40	3.7	6.303	0.0025	/	Pass
				50	3.7	10.252	0.0040	/	Pass
16QAM	2510	100	0	20	3.135	-0.489	-0.0002	/	Pass
					3.7	-3.426	-0.0014	/	Pass
					4.4	3.880	0.0015	/	Pass
				-30	3.7	-1.169	-0.0005	/	Pass
				-20	3.7	-2.777	-0.0011	/	Pass
				-10	3.7	7.335	0.0029	/	Pass
				0	3.7	6.848	0.0027	/	Pass



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				10	3.7	-7.592	-0.0030	/	Pass
				30	3.7	5.414	0.0022	/	Pass
				40	3.7	-1.654	-0.0007	/	Pass
				50	3.7	7.866	0.0031	/	Pass
	2535	100	0	20	3.135	-7.746	-0.0031	/	Pass
					3.7	7.347	0.0029	/	Pass
					4.4	1.615	0.0006	/	Pass
				-30	3.7	-1.217	-0.0005	/	Pass
				-20	3.7	-7.521	-0.0030	/	Pass
				-10	3.7	-0.734	-0.0003	/	Pass
				0	3.7	3.858	0.0015	/	Pass
				10	3.7	-7.550	-0.0030	/	Pass
				30	3.7	0.631	0.0002	/	Pass
				40	3.7	-6.335	-0.0025	/	Pass
				50	3.7	3.142	0.0012	/	Pass
	2560	100	0	20	3.135	10.815	0.0042	/	Pass
					3.7	3.815	0.0015	/	Pass
					4.4	5.712	0.0022	/	Pass
				-30	3.7	10.487	0.0041	/	Pass
				-20	3.7	0.018	0.0000	/	Pass
				-10	3.7	7.610	0.0030	/	Pass
				0	3.7	-0.855	-0.0003	/	Pass
				10	3.7	-0.281	-0.0001	/	Pass
				30	3.7	11.704	0.0046	/	Pass
				40	3.7	3.826	0.0015	/	Pass
				50	3.7	6.411	0.0025	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band7_OBW

3.1.1 Test Result

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	4.542	/	Pass
		2535	25	0	4.542	/	Pass
		2567.5	25	0	4.562	/	Pass
	16QAM	2502.5	25	0	4.579	/	Pass
		2535	25	0	4.569	/	Pass
		2567.5	25	0	4.540	/	Pass
10	QPSK	2505	50	0	9.036	/	Pass
		2535	50	0	9.044	/	Pass
		2565	50	0	9.073	/	Pass
	16QAM	2505	50	0	9.066	/	Pass
		2535	50	0	9.013	/	Pass
		2565	50	0	9.031	/	Pass
15	QPSK	2507.5	75	0	13.573	/	Pass
		2535	75	0	13.560	/	Pass
		2562.5	75	0	13.552	/	Pass
	16QAM	2507.5	75	0	13.564	/	Pass
		2535	75	0	13.569	/	Pass
		2562.5	75	0	13.573	/	Pass
20	QPSK	2510	100	0	18.069	/	Pass
		2535	100	0	18.086	/	Pass
		2560	100	0	18.053	/	Pass
	16QAM	2510	100	0	18.050	/	Pass
		2535	100	0	18.081	/	Pass
		2560	100	0	18.074	/	Pass



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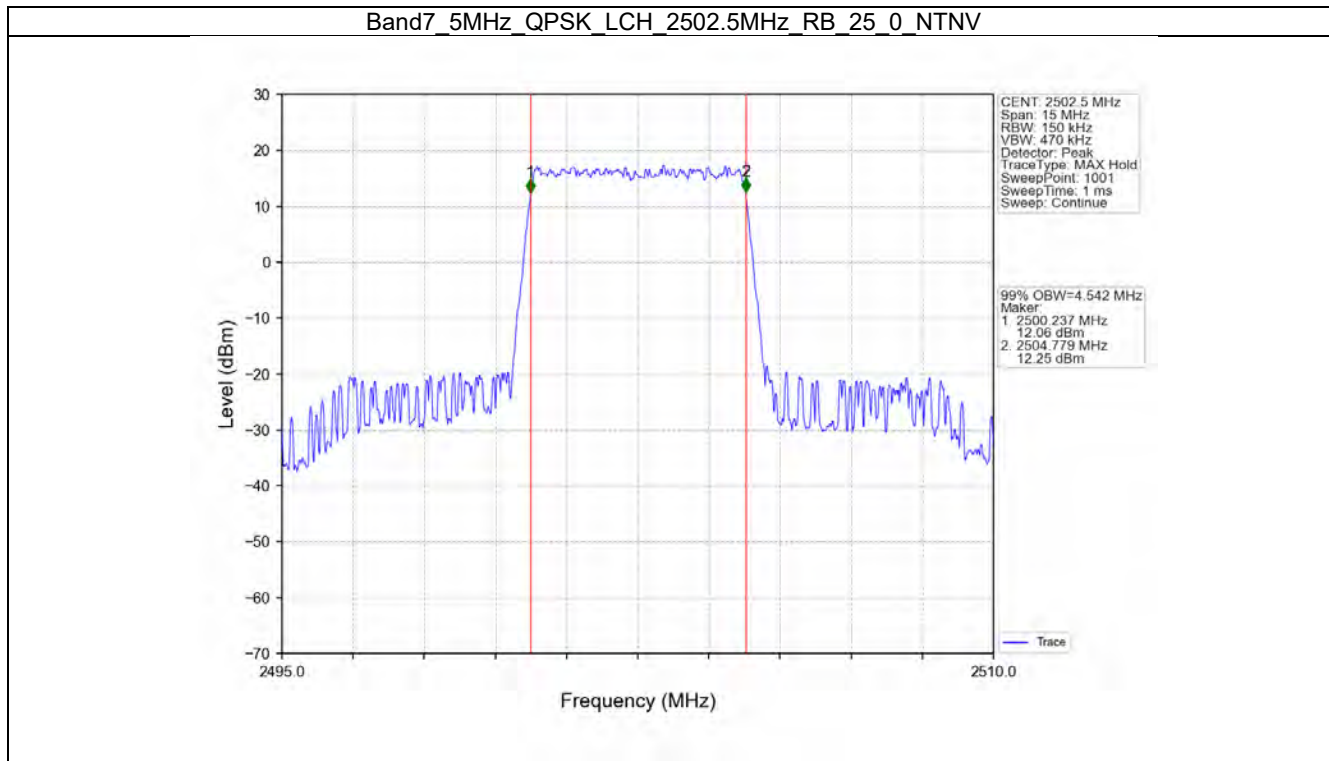
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3.1.2 Test Graph



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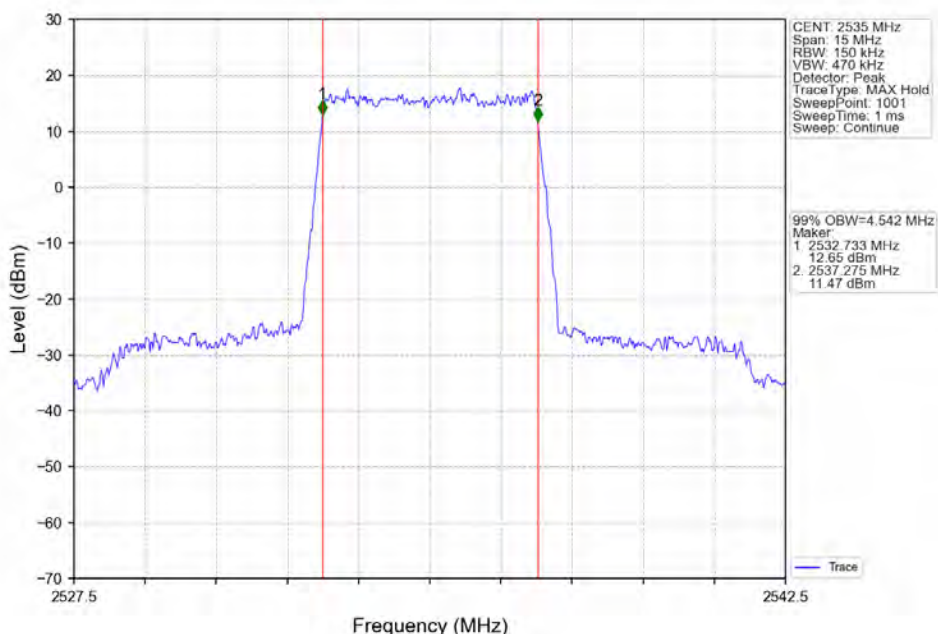
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Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV



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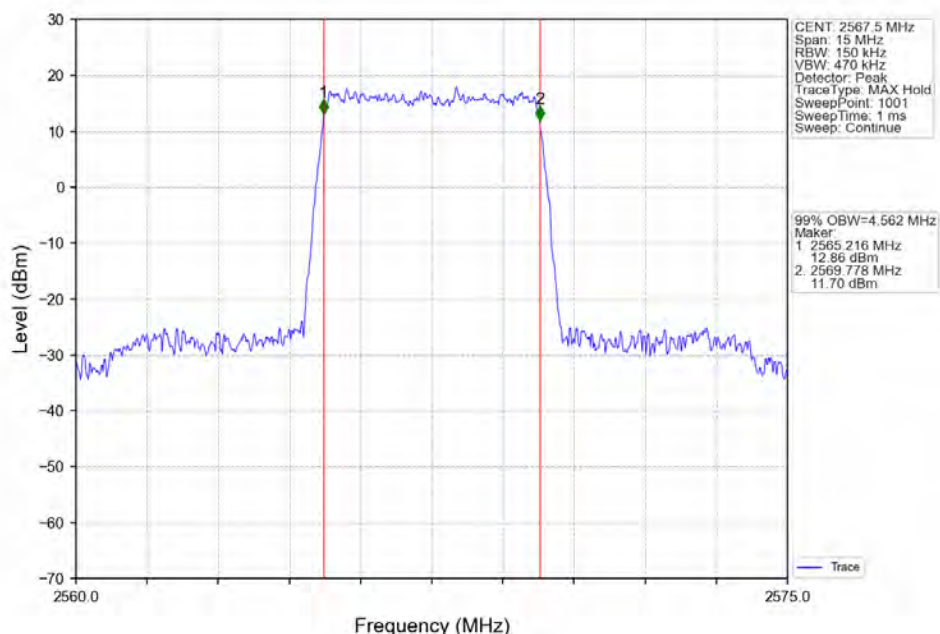
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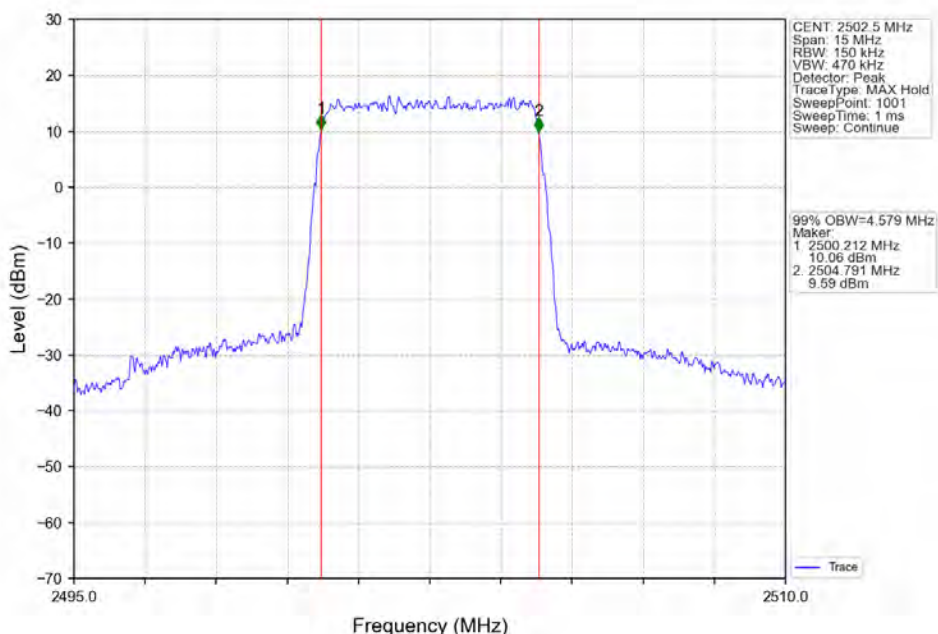
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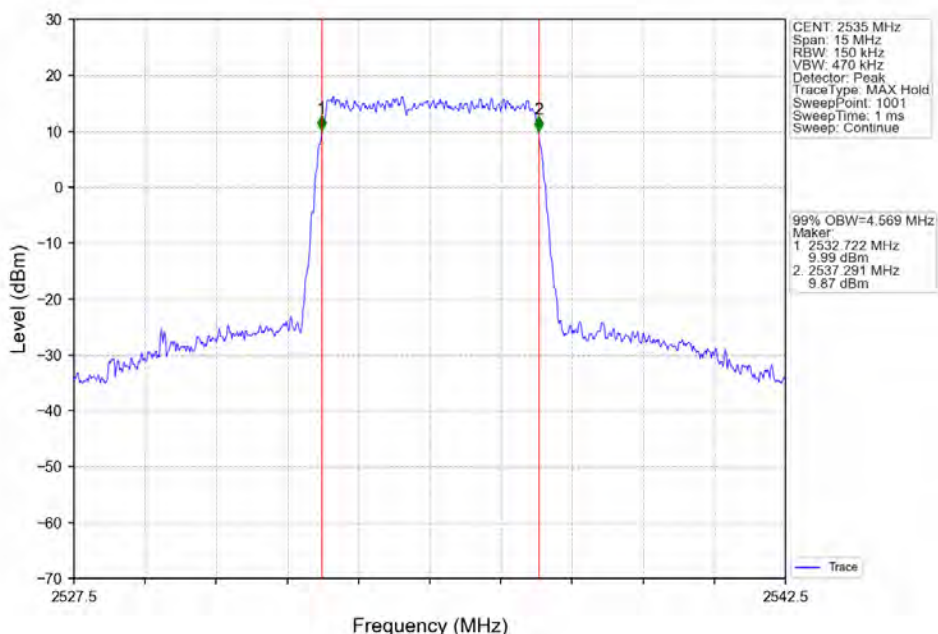
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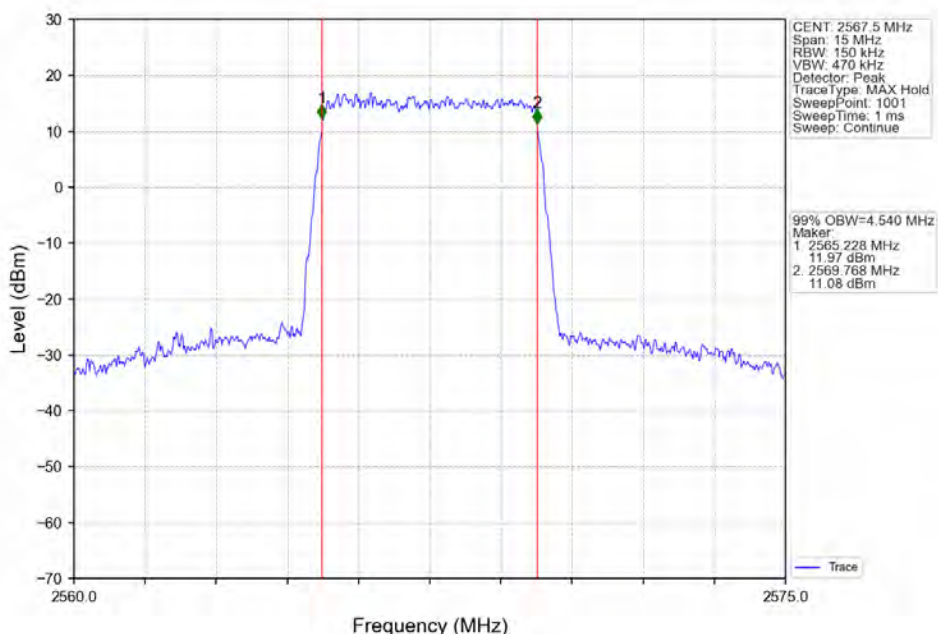
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Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



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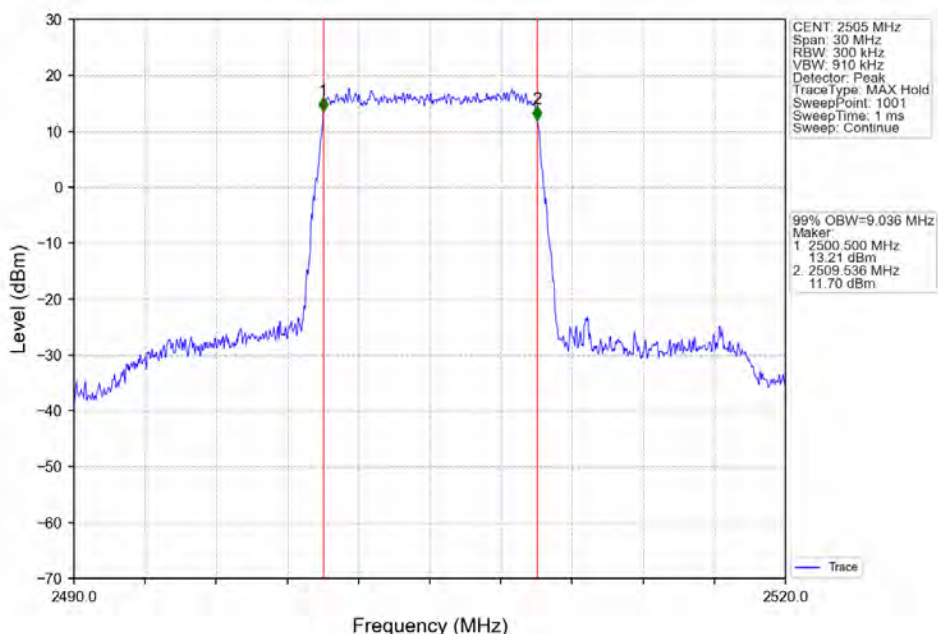
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Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



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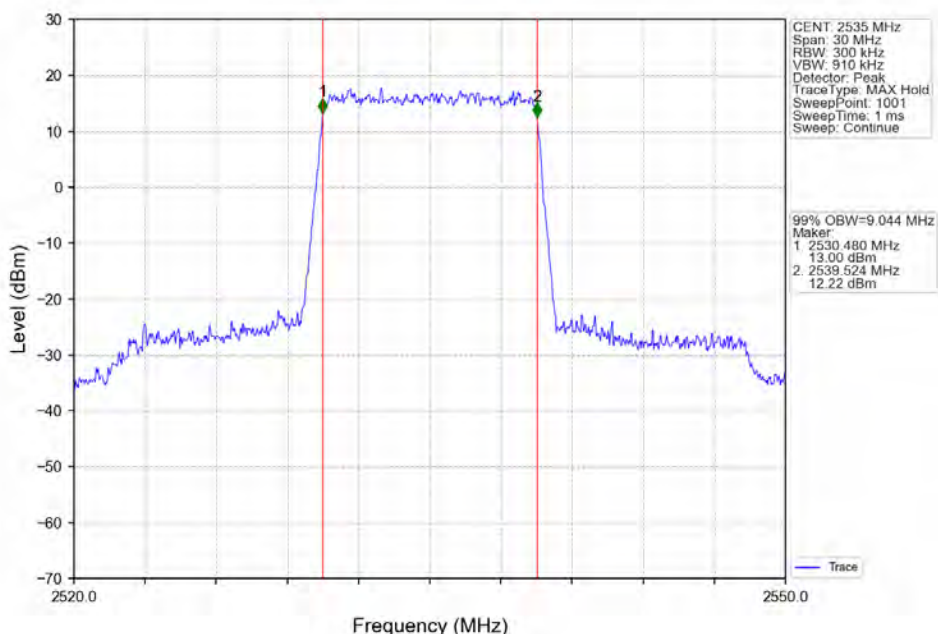
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Band7 10MHz QPSK MCH 2535MHz RB 50_0 NTNV



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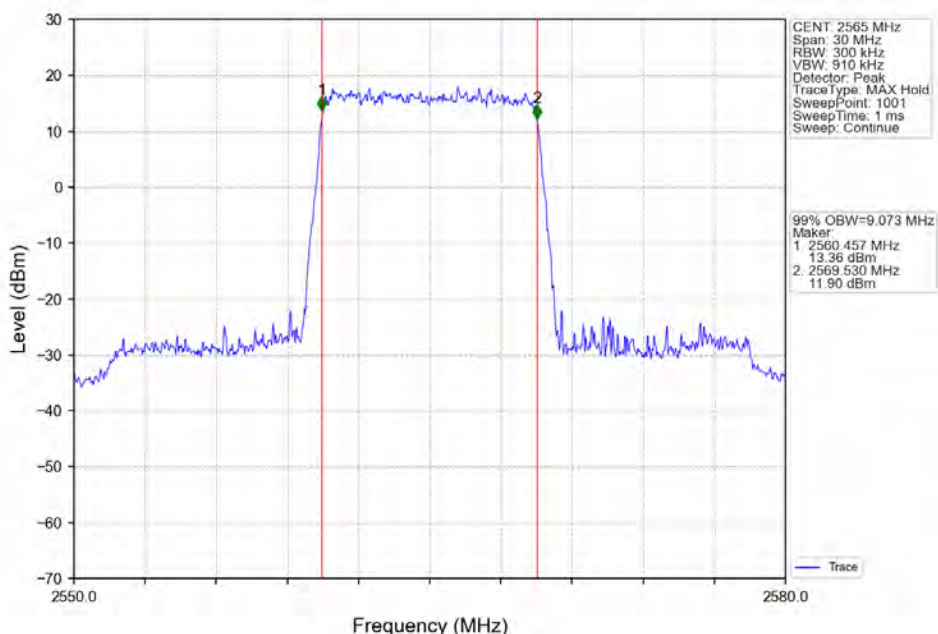
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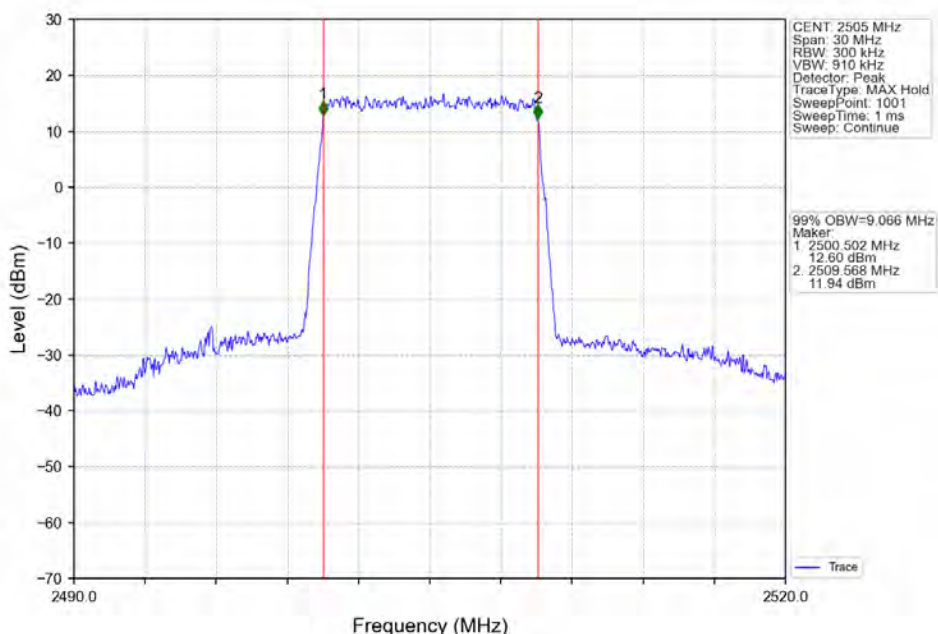
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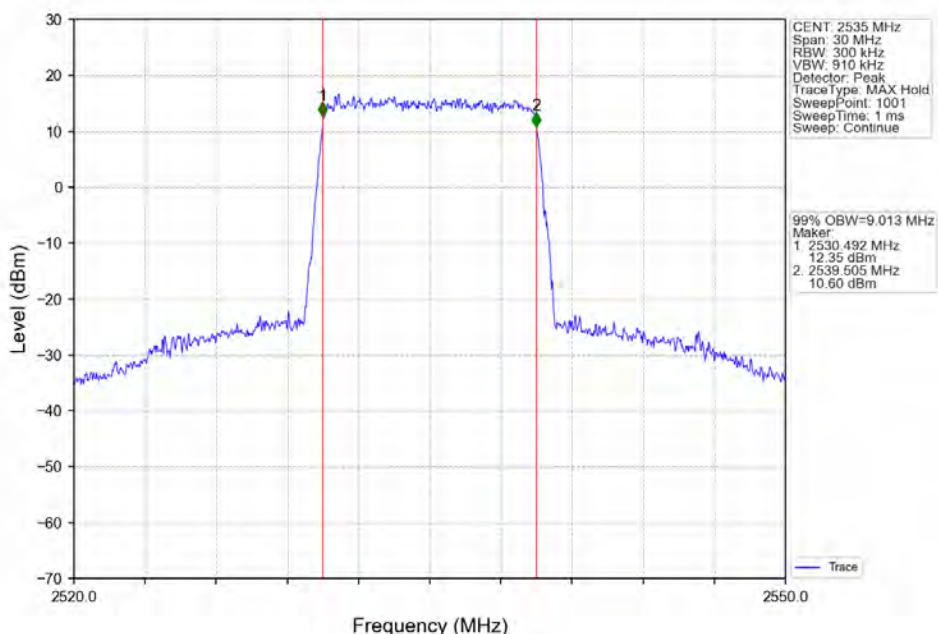
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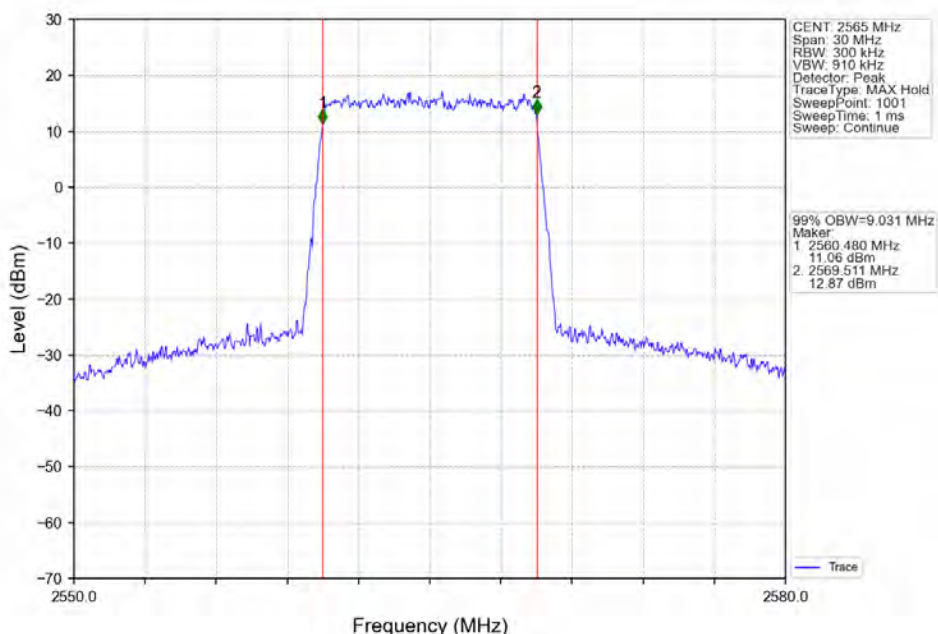
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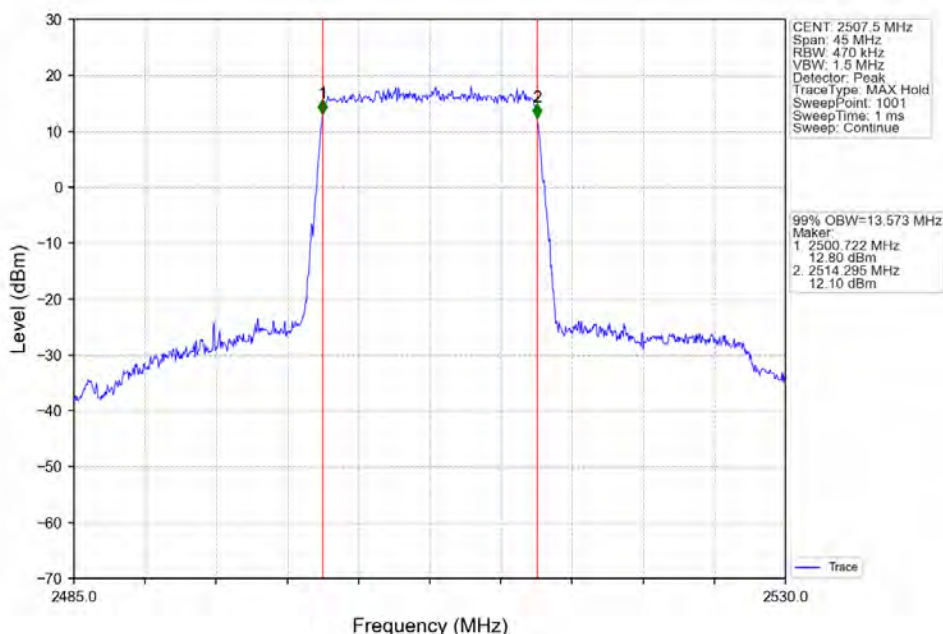
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Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



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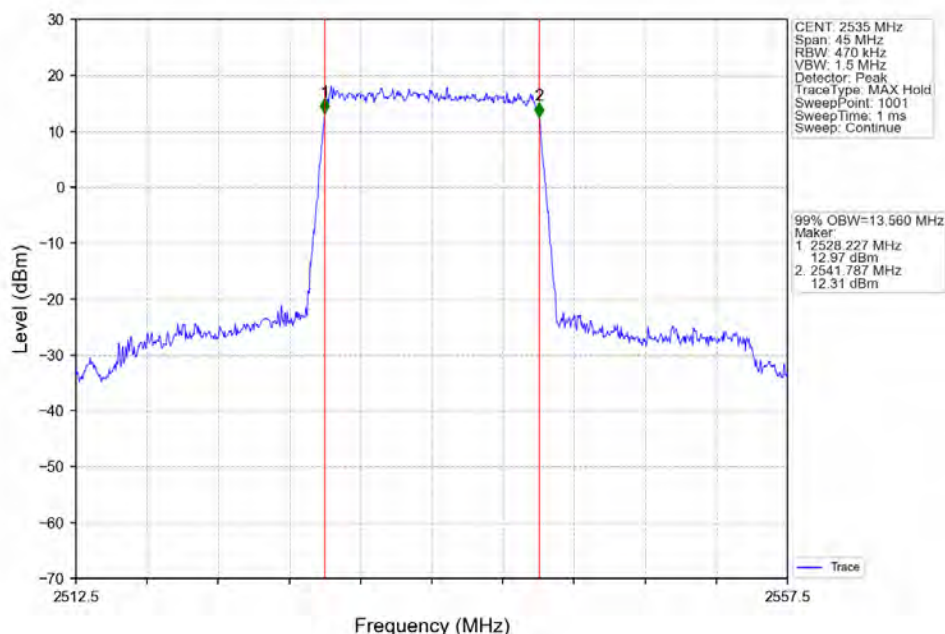
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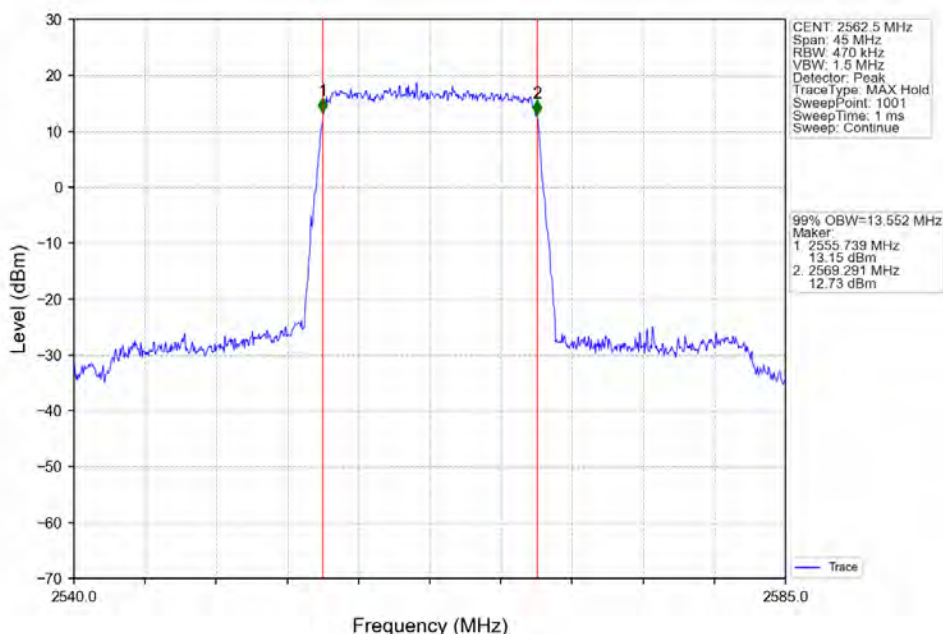
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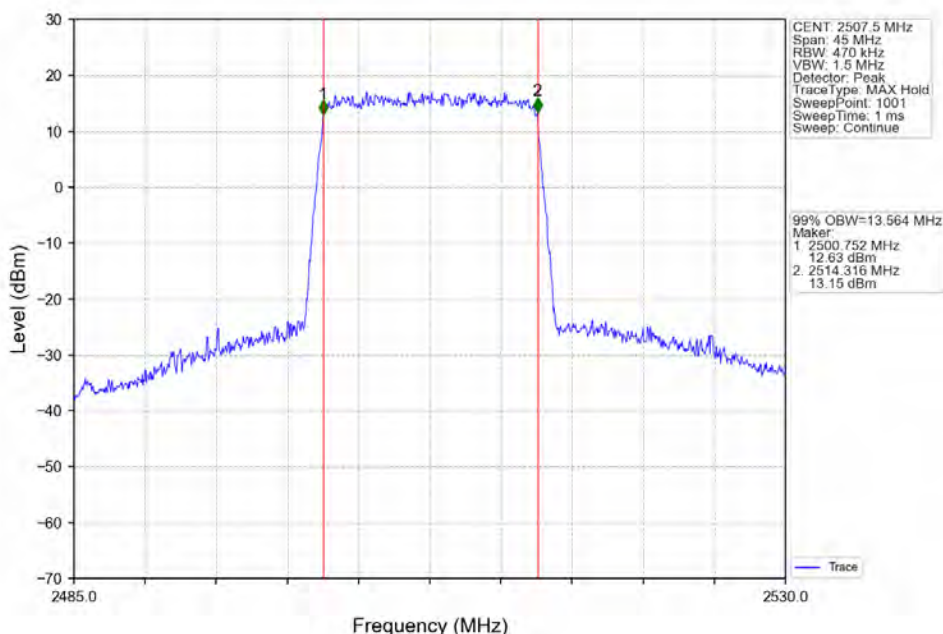
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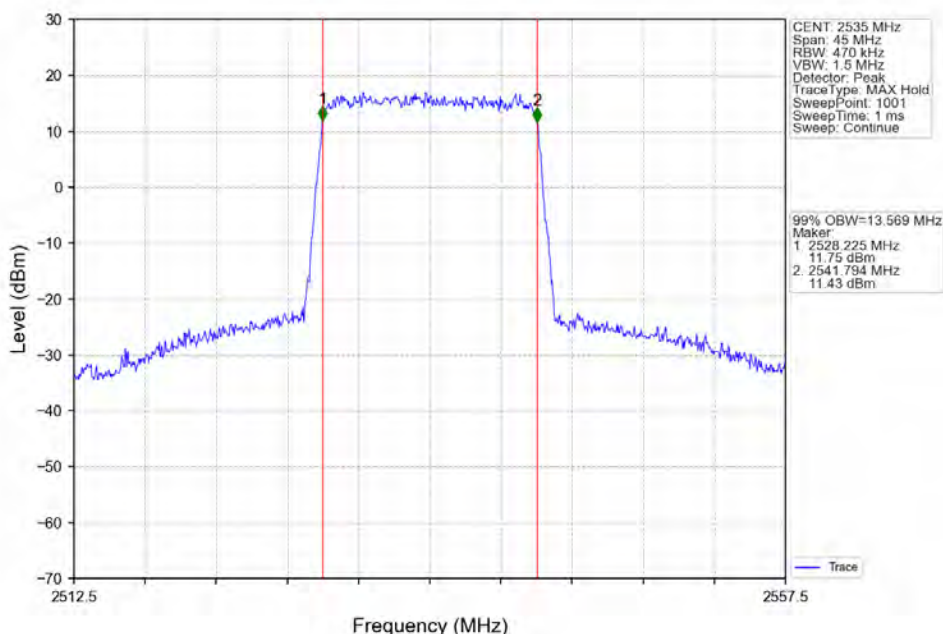
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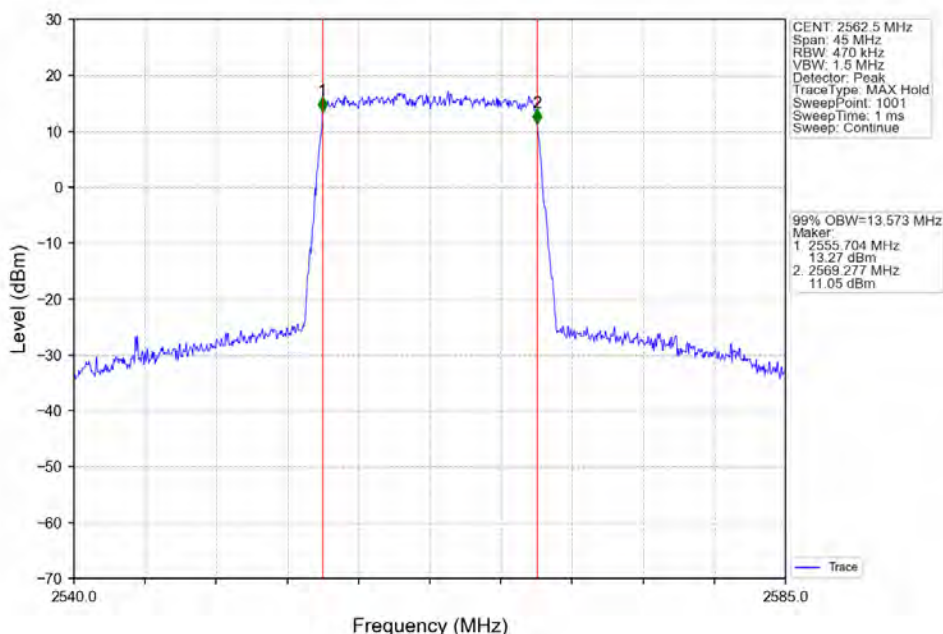
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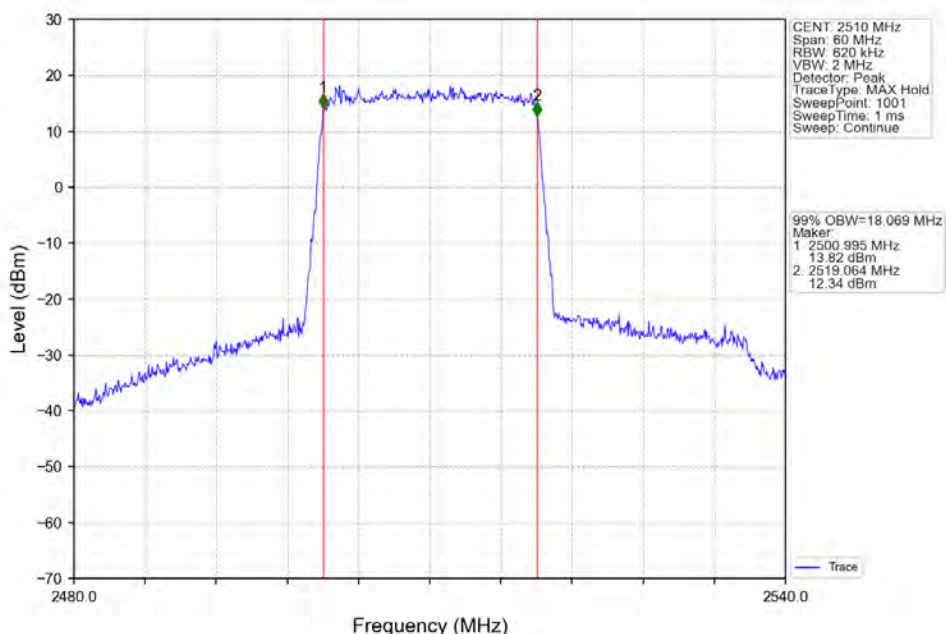
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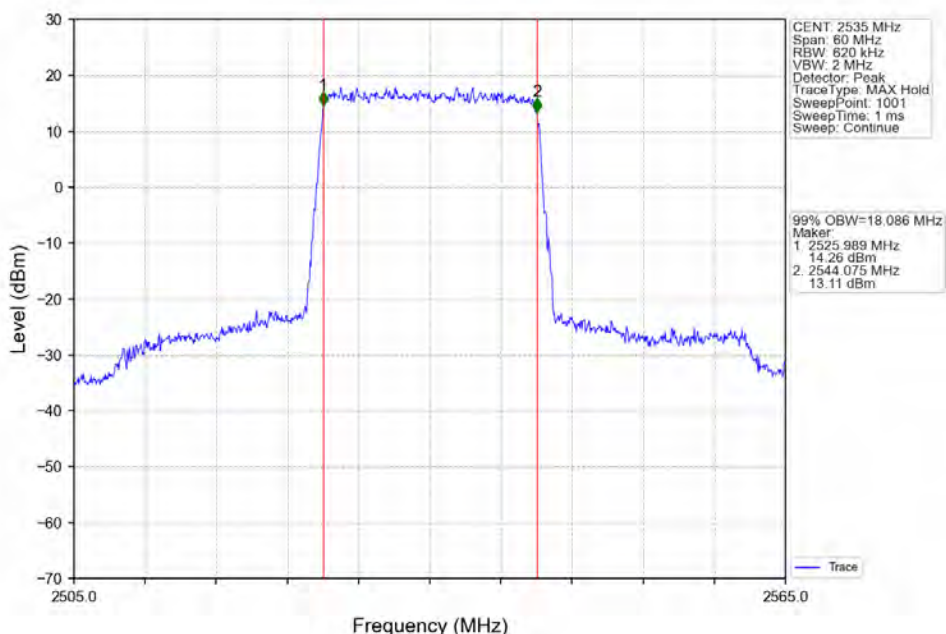
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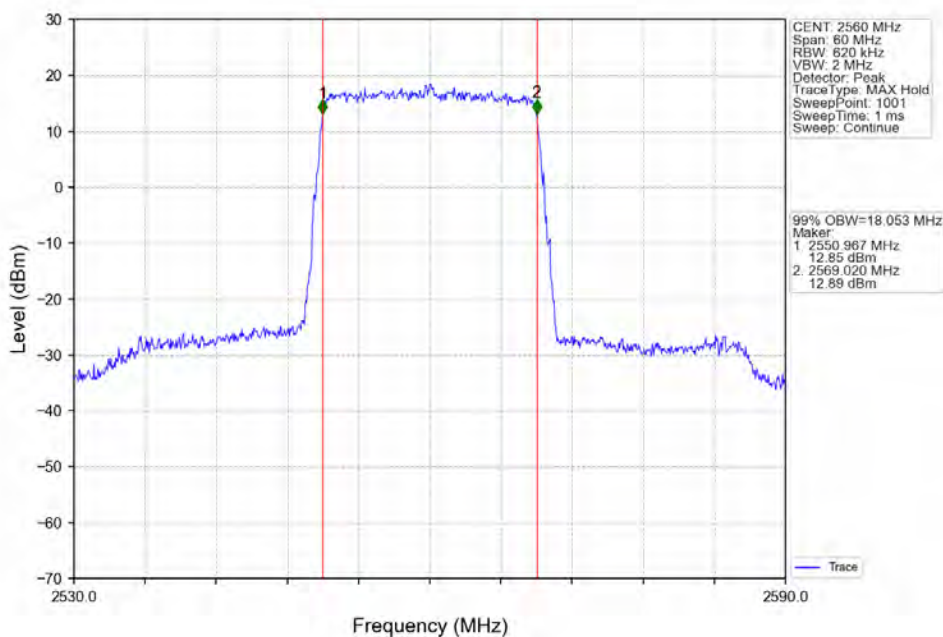
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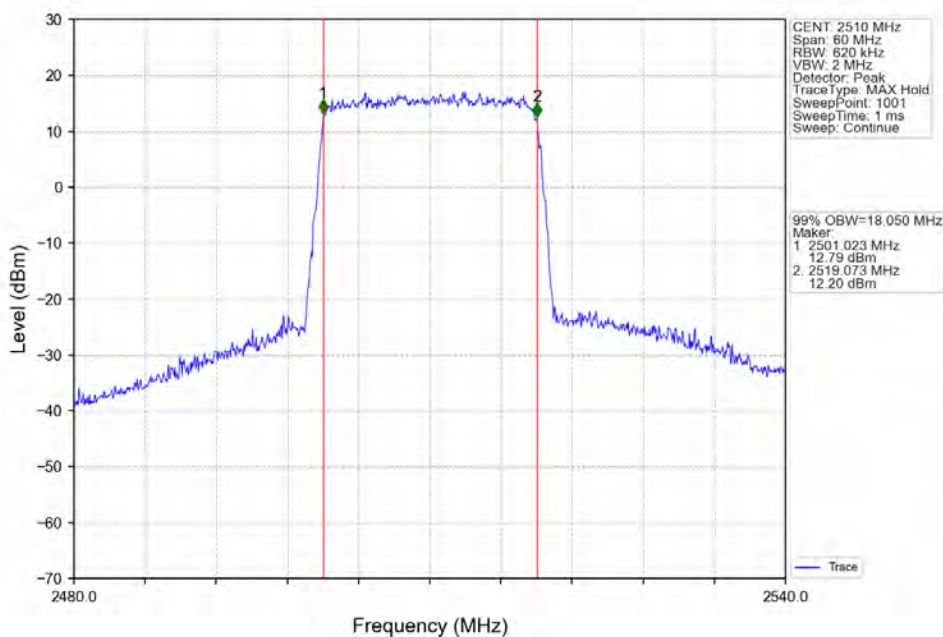
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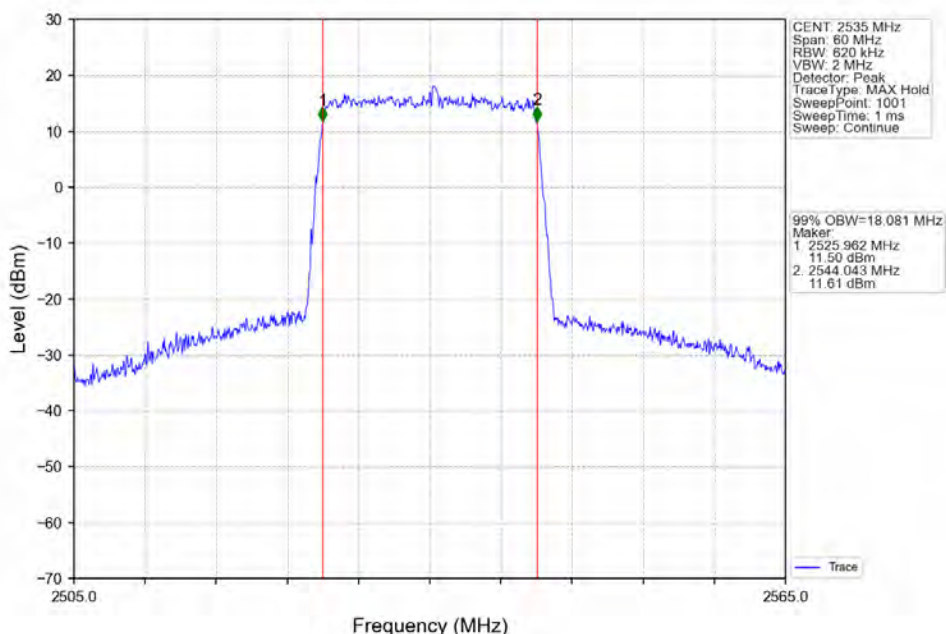
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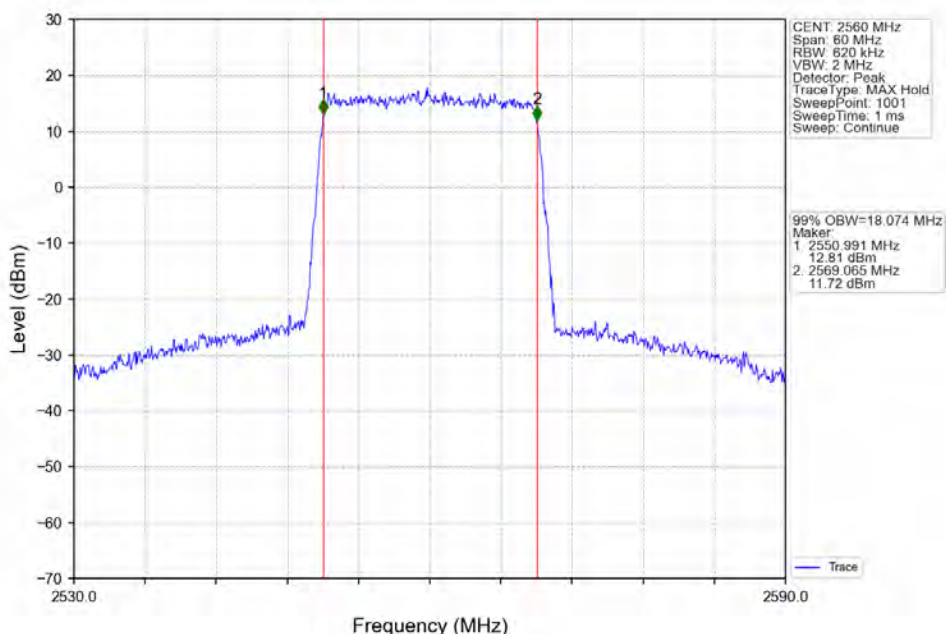
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3.2 Band7_XDB

3.2.1 Test Result

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.079	/	Pass
		2535	25	0	5.075	/	Pass
		2567.5	25	0	5.038	/	Pass
	16QAM	2502.5	25	0	5.075	/	Pass
		2535	25	0	5.056	/	Pass
		2567.5	25	0	5.048	/	Pass
10	QPSK	2505	50	0	10.022	/	Pass
		2535	50	0	9.959	/	Pass
		2565	50	0	9.998	/	Pass
	16QAM	2505	50	0	9.971	/	Pass
		2535	50	0	9.950	/	Pass
		2565	50	0	9.965	/	Pass
15	QPSK	2507.5	75	0	14.990	/	Pass
		2535	75	0	14.916	/	Pass
		2562.5	75	0	14.948	/	Pass
	16QAM	2507.5	75	0	14.913	/	Pass
		2535	75	0	14.992	/	Pass
		2562.5	75	0	14.915	/	Pass
20	QPSK	2510	100	0	19.660	/	Pass
		2535	100	0	19.717	/	Pass
		2560	100	0	19.797	/	Pass
	16QAM	2510	100	0	19.862	/	Pass
		2535	100	0	19.877	/	Pass
		2560	100	0	19.854	/	Pass



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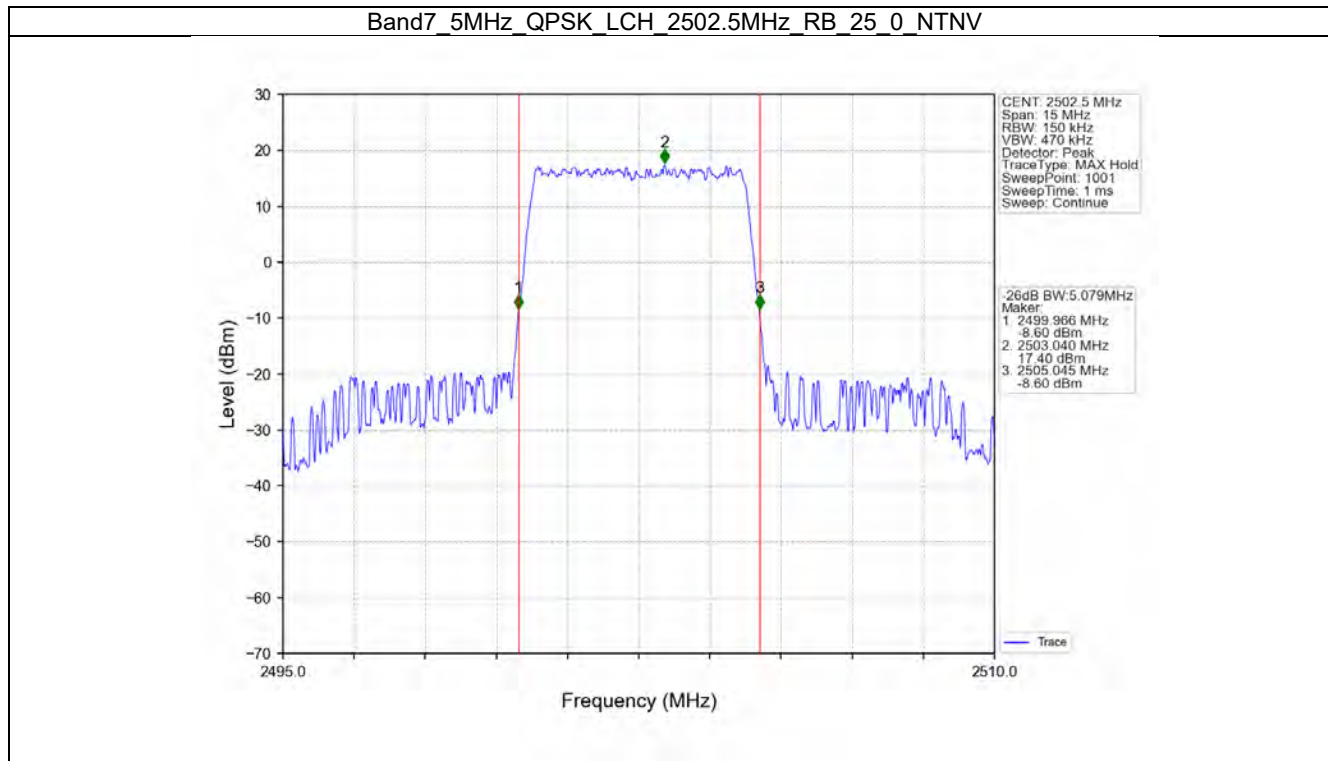
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3.2.2 Test Graph



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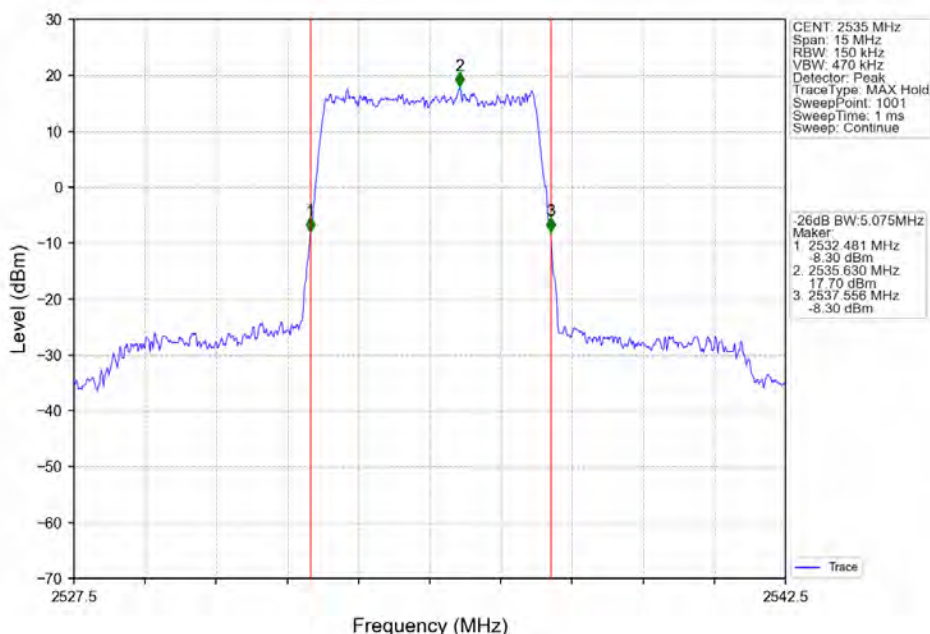
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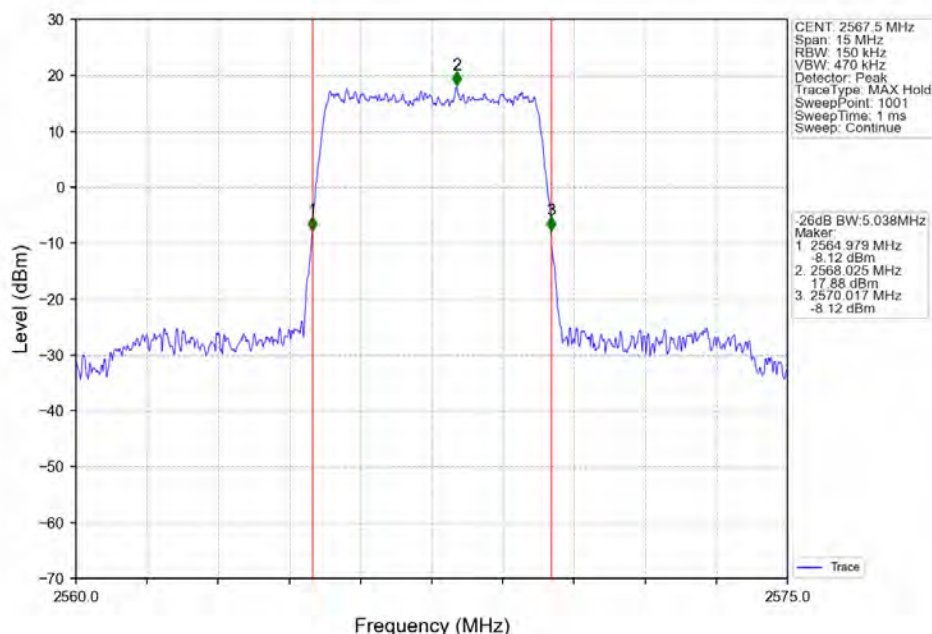
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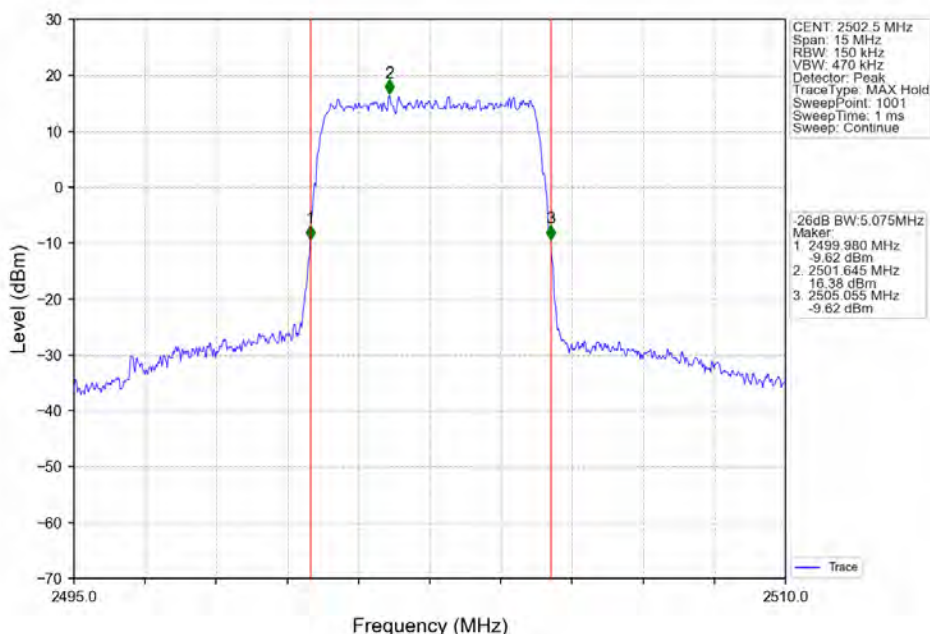
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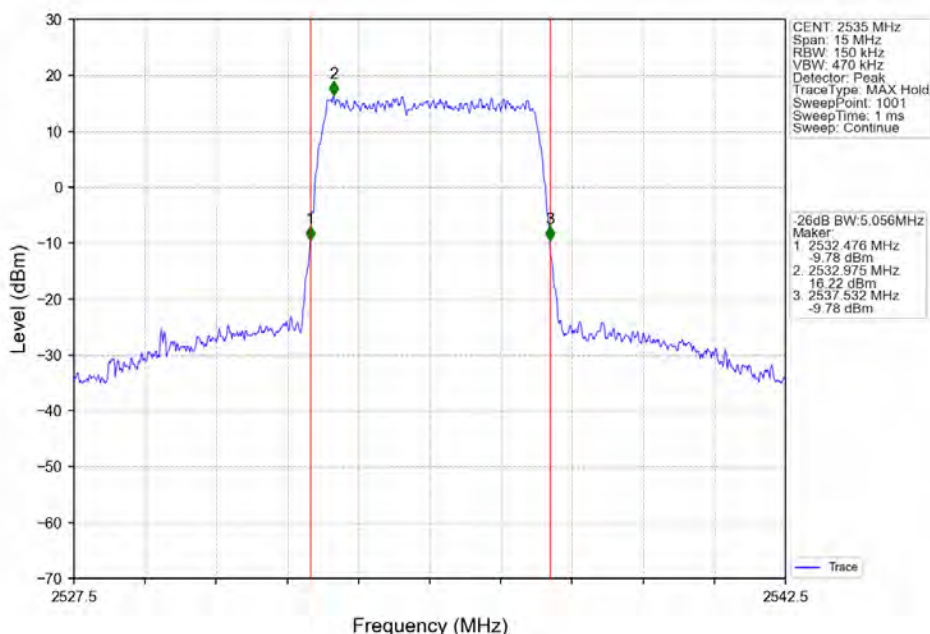
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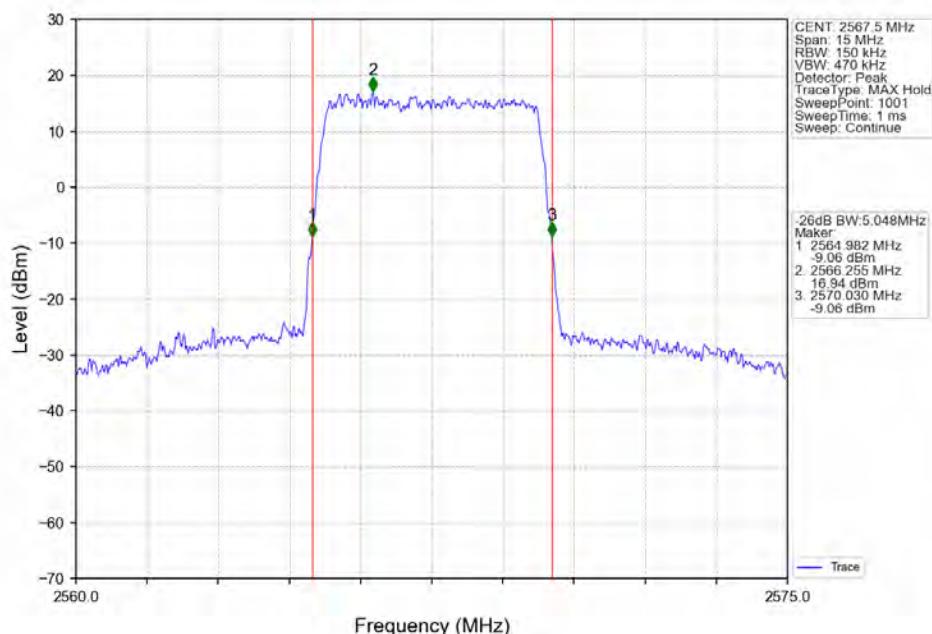
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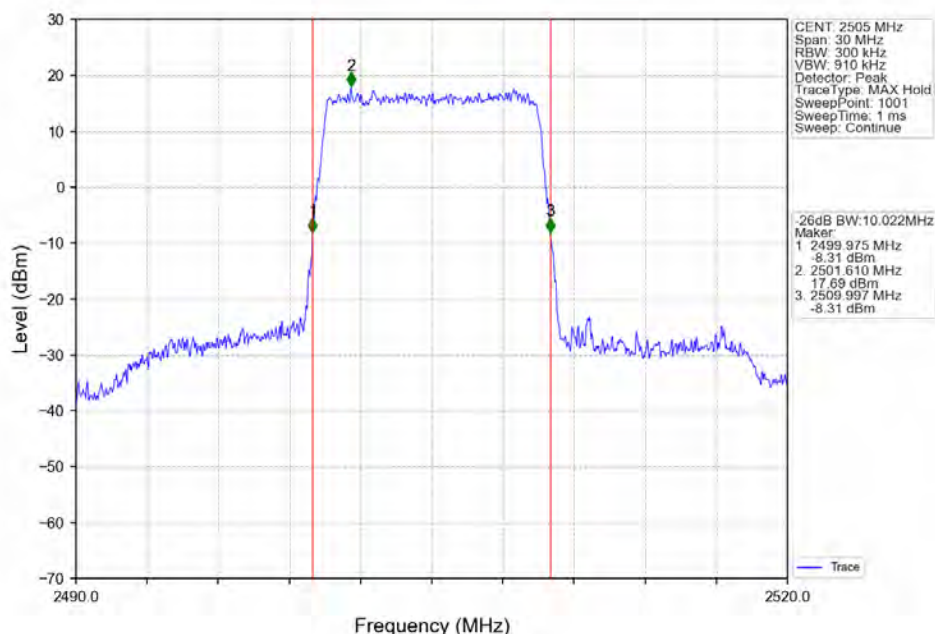
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Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



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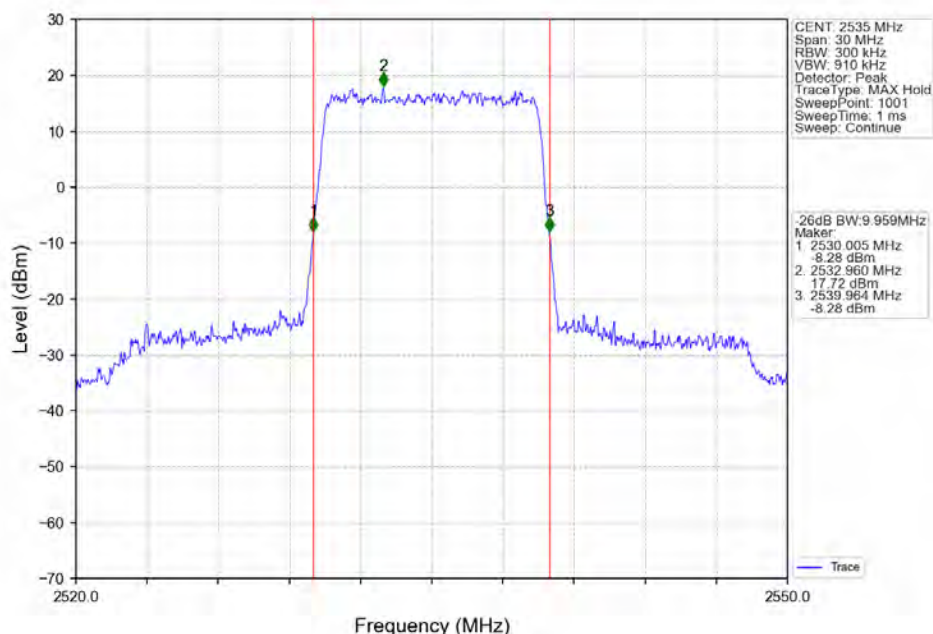
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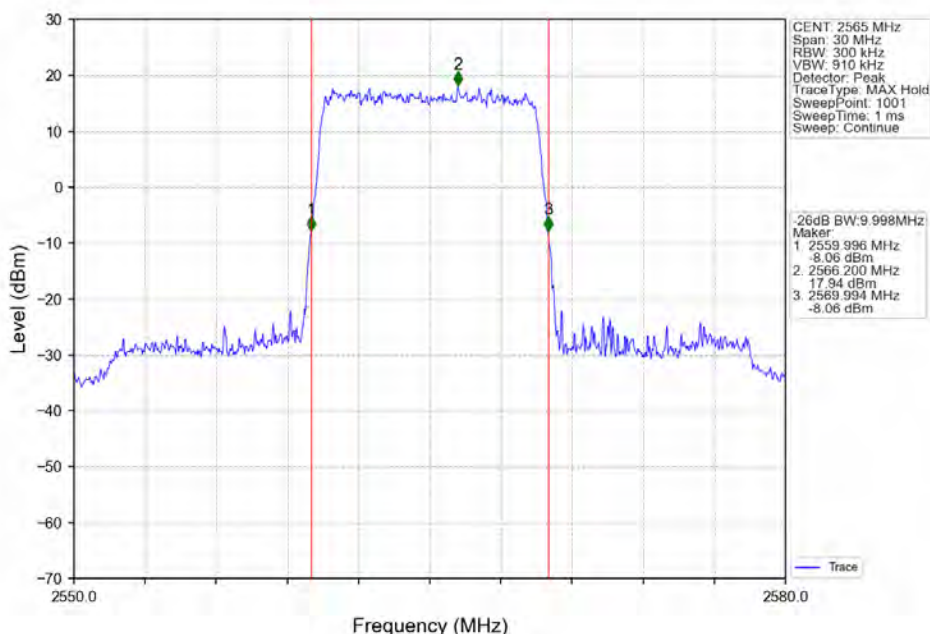
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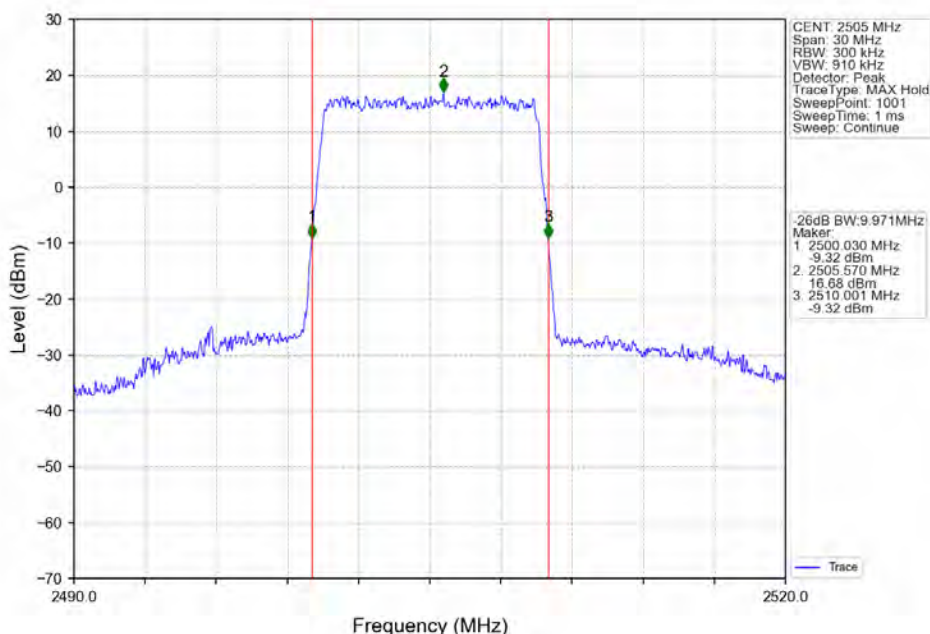
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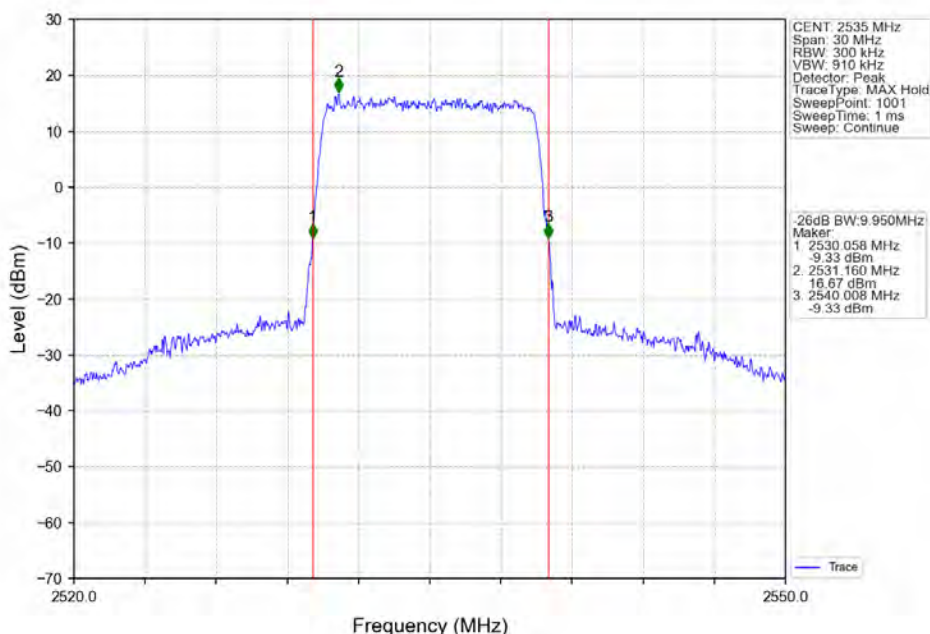
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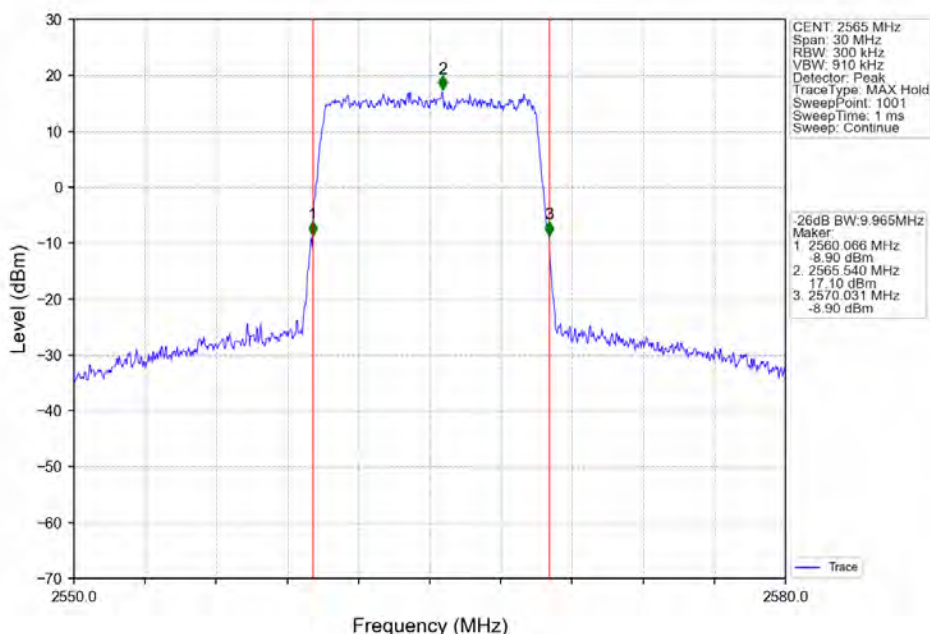
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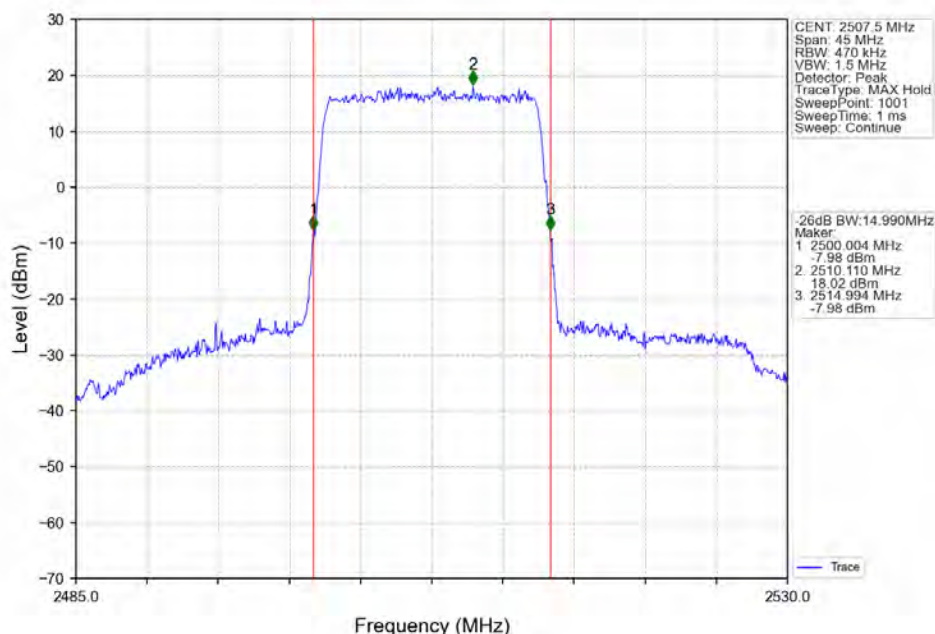
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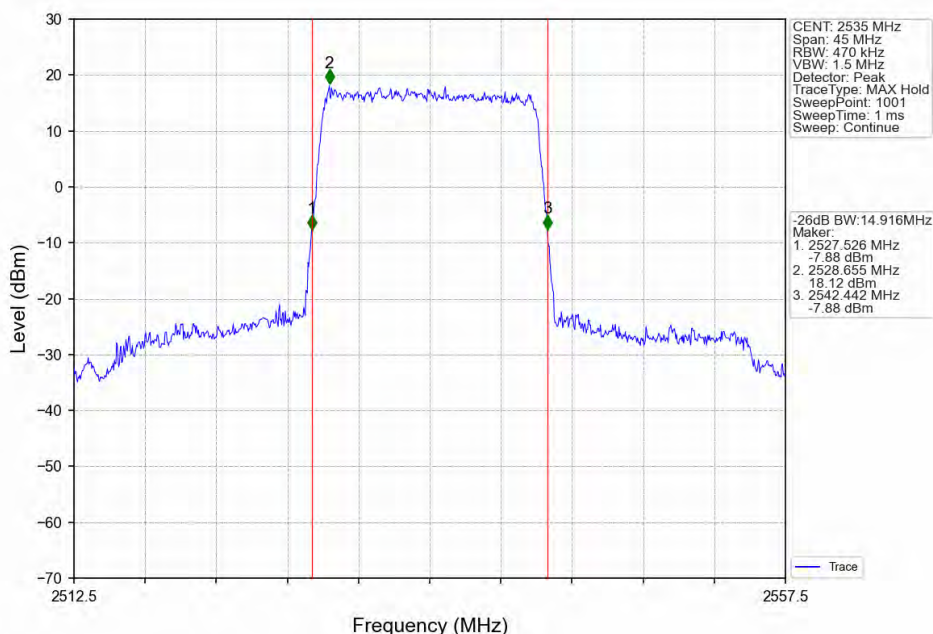
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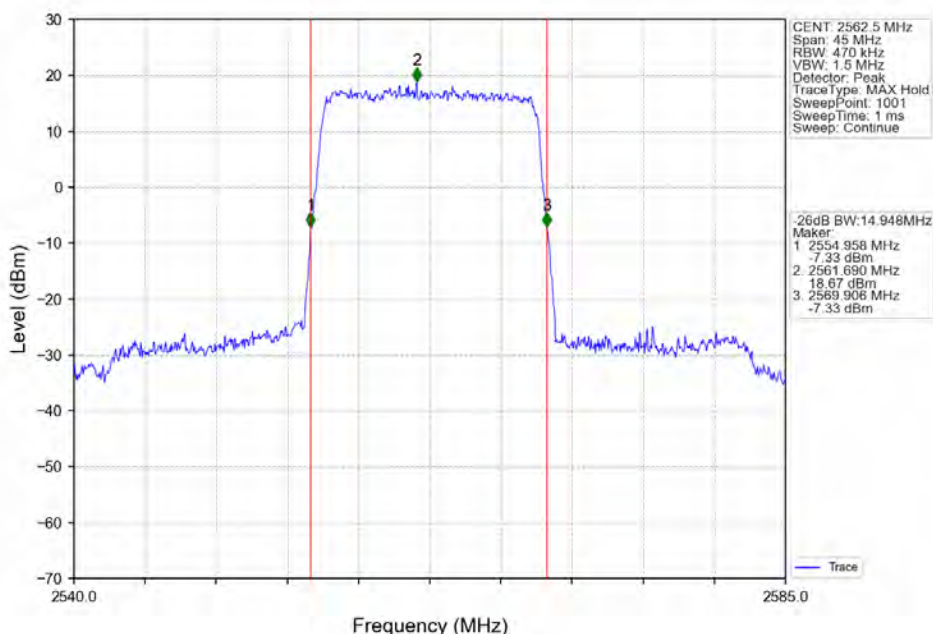
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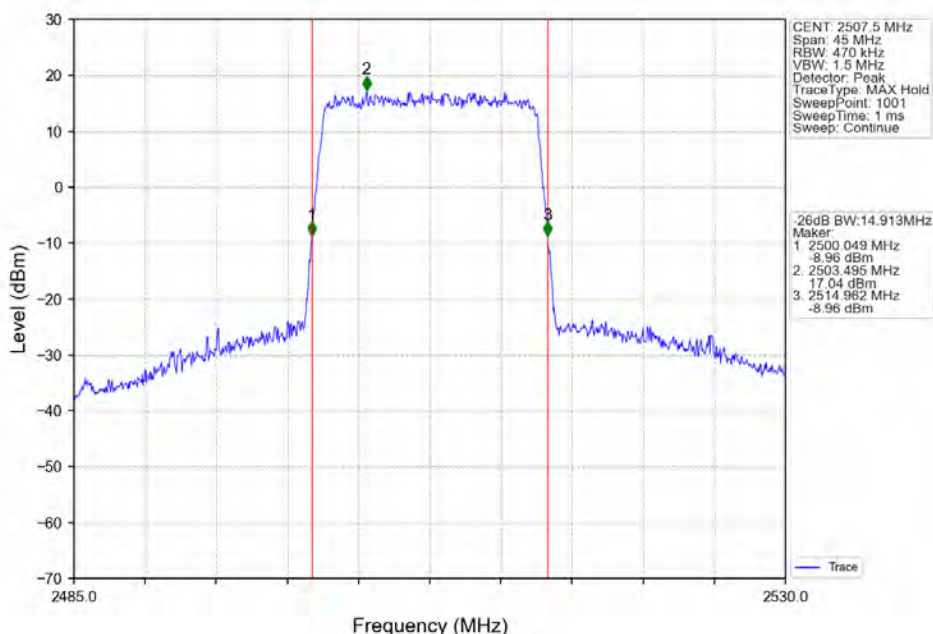
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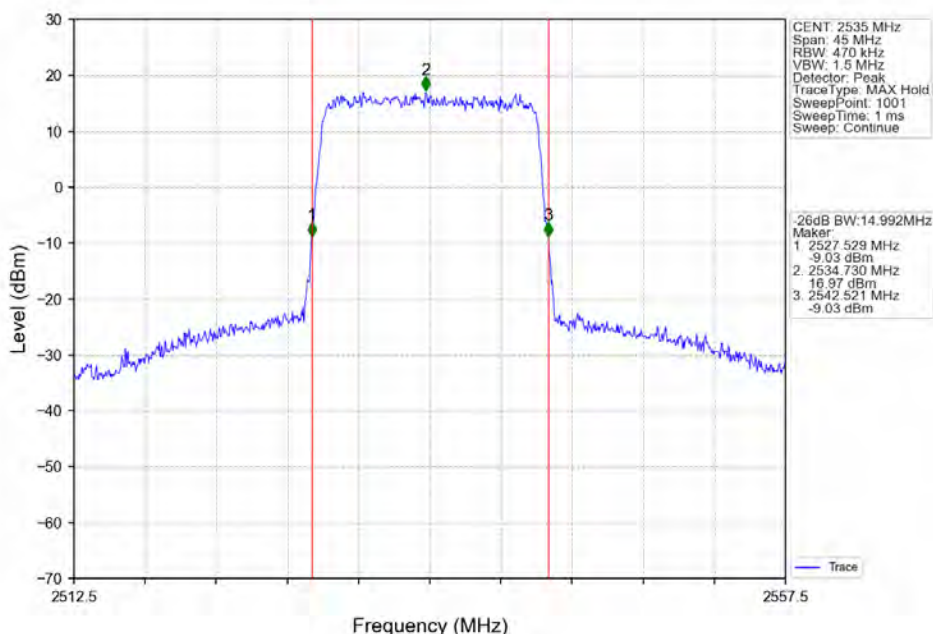
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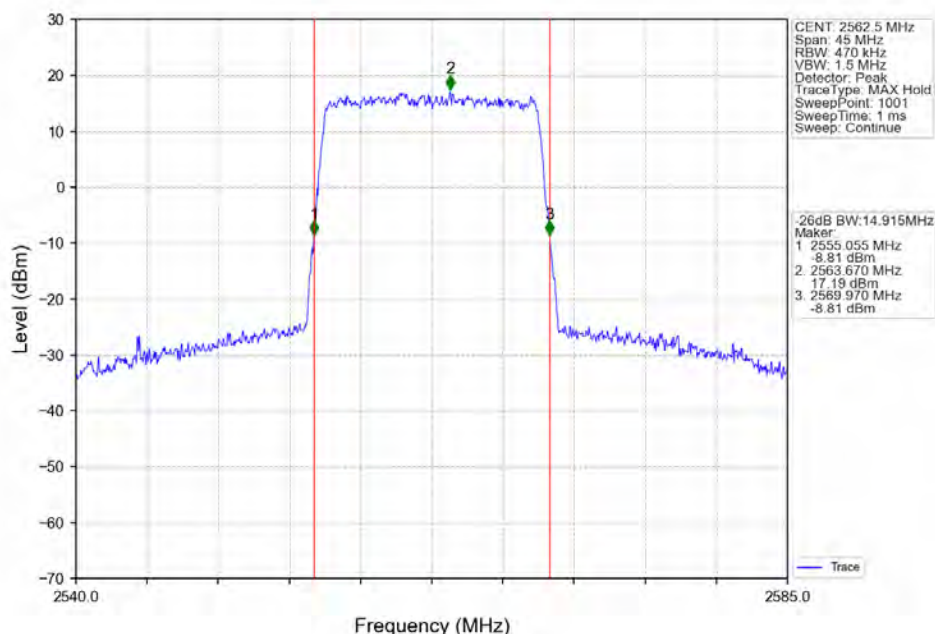
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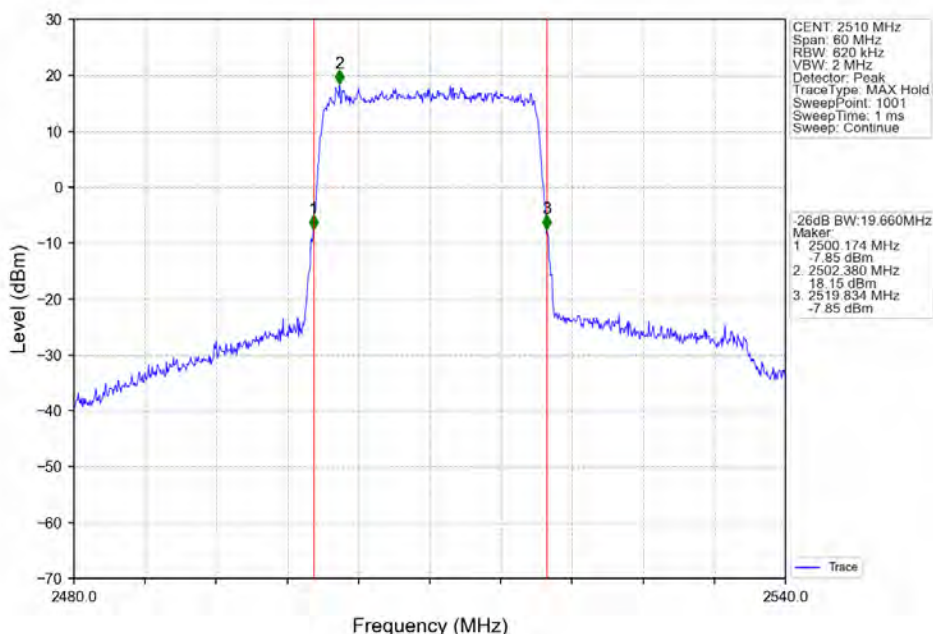
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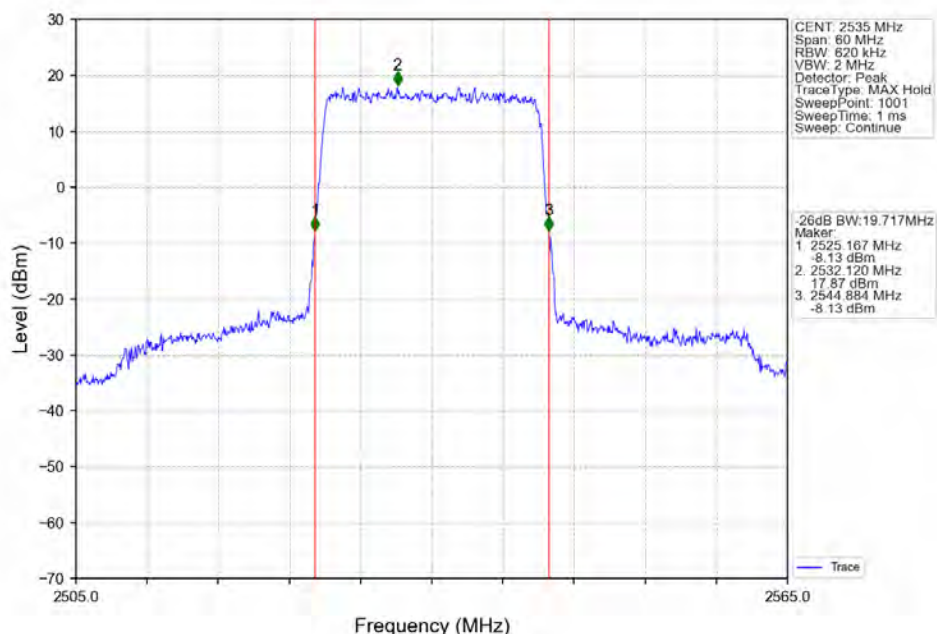
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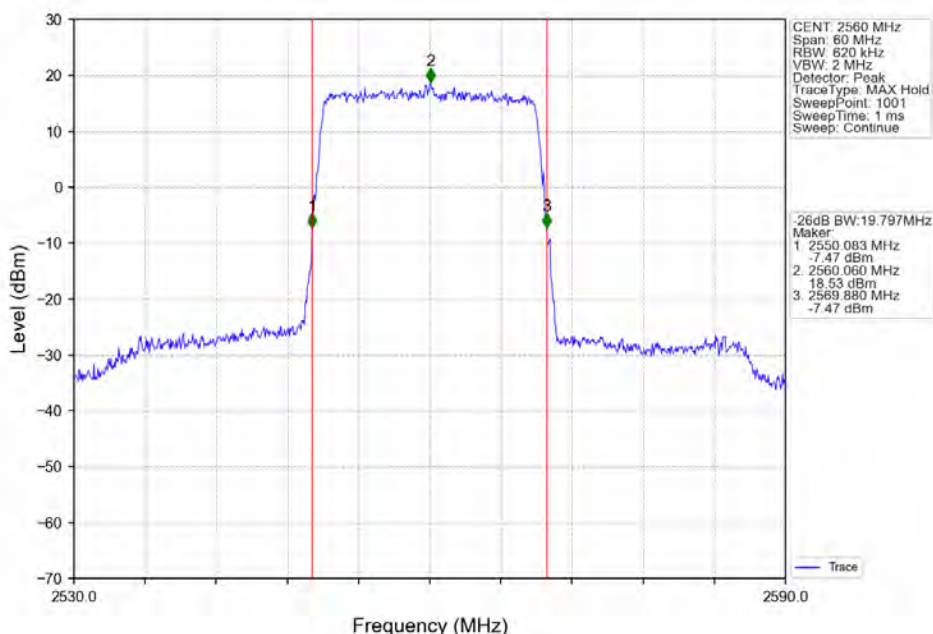
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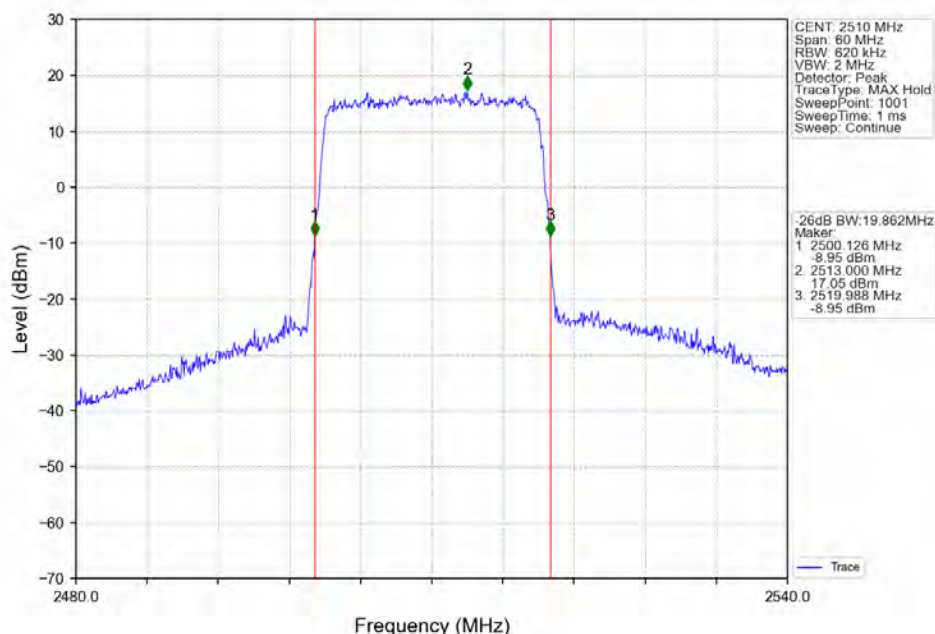
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Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV



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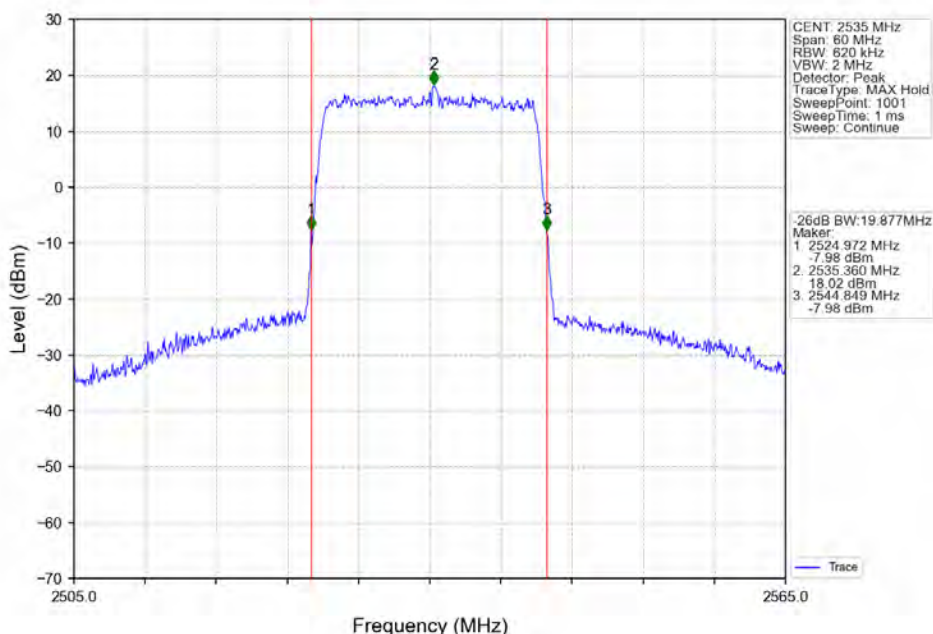
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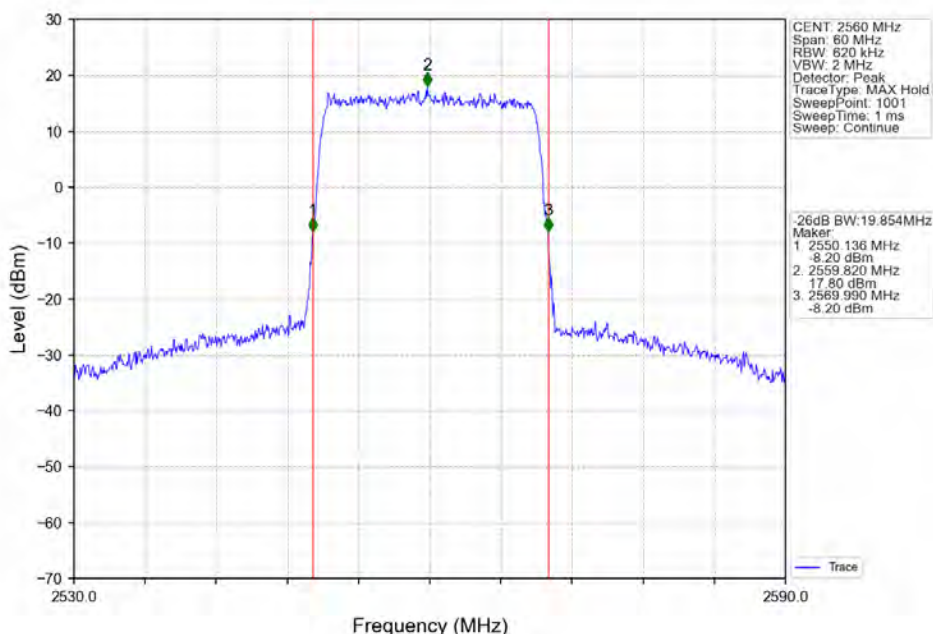
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4. Peak-Average Ratio

4.1 B7_5MHz

4.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.71	<=13	Pass
	2535	25	0	5.62	<=13	Pass
	2567.5	25	0	5.68	<=13	Pass
16QAM	2502.5	25	0	6.42	<=13	Pass
	2535	25	0	6.32	<=13	Pass
	2567.5	25	0	6.40	<=13	Pass



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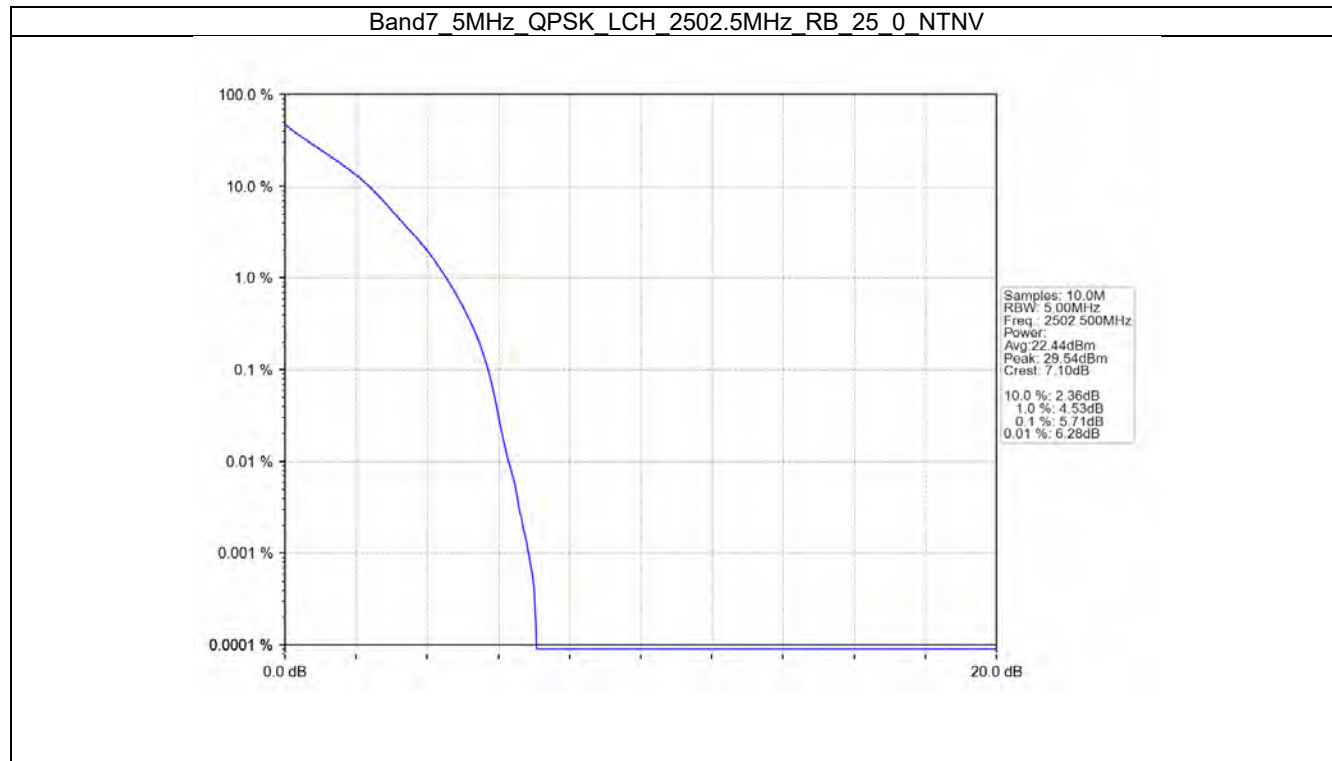
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4.1.2 Test Graph



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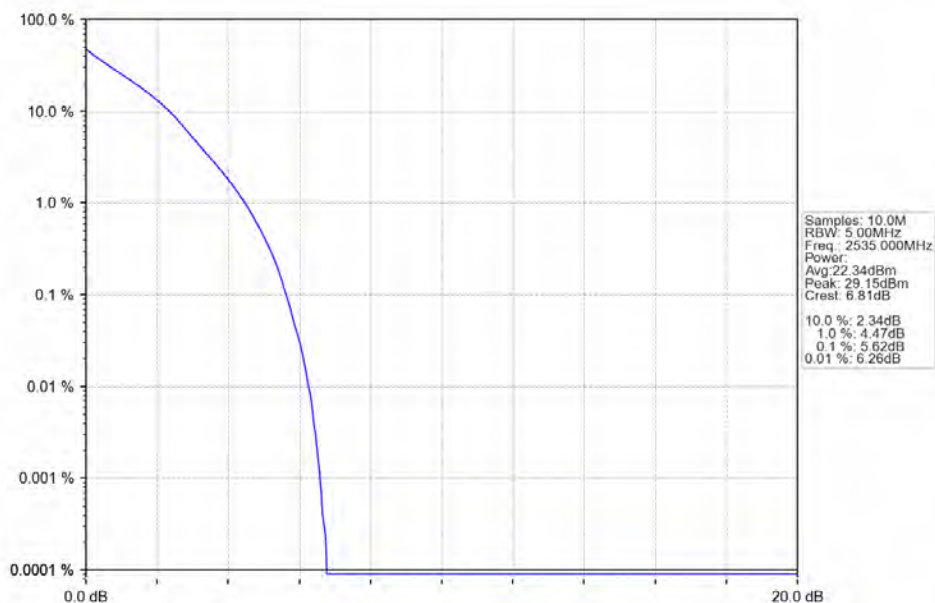
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Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV



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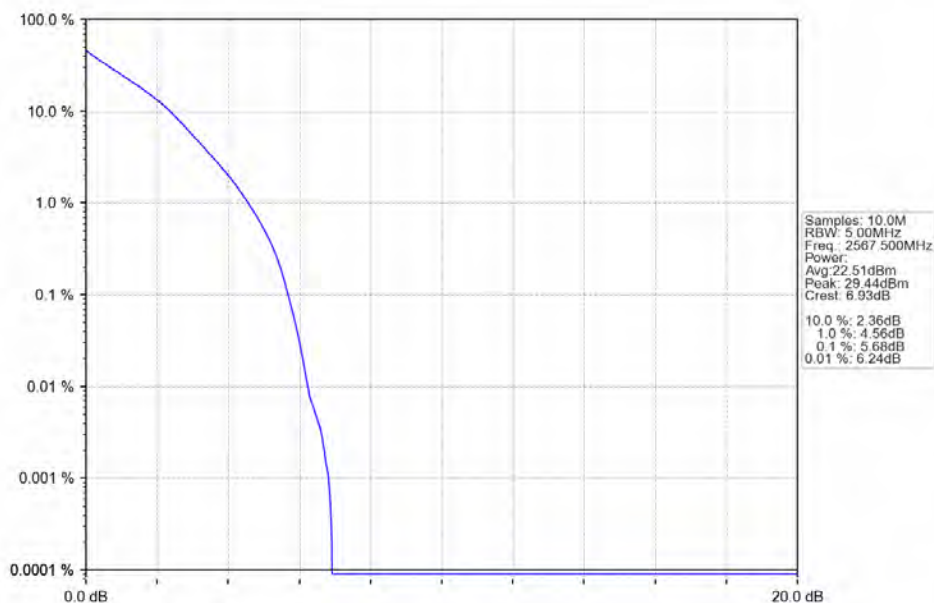
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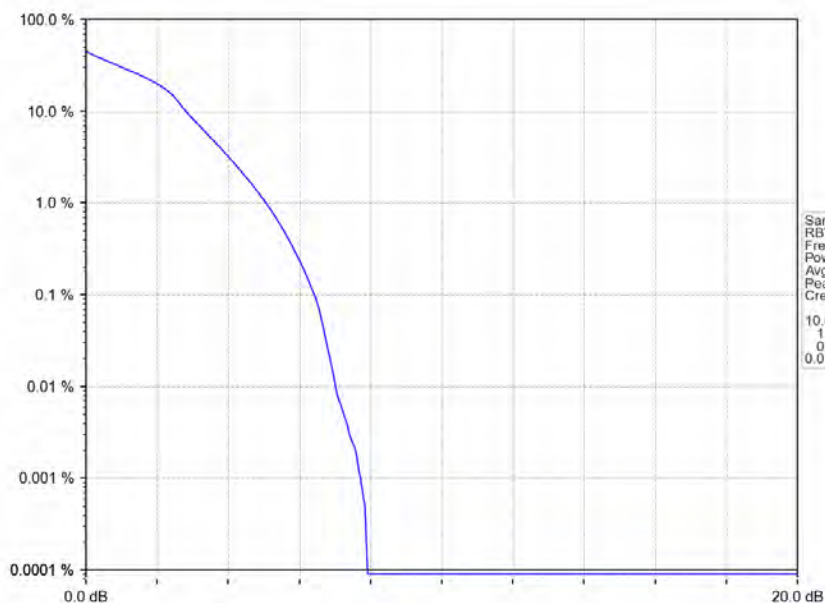
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Samples: 10.0M
RBW: 5.00MHz
Freq.: 2502.500MHz
Power:
Avg: 21.45dBm
Peak: 29.41dBm
Crest: 7.96dB
10.0 %: 2.81dB
1.0 %: 5.06dB
0.1 %: 6.42dB
0.01 %: 7.01dB



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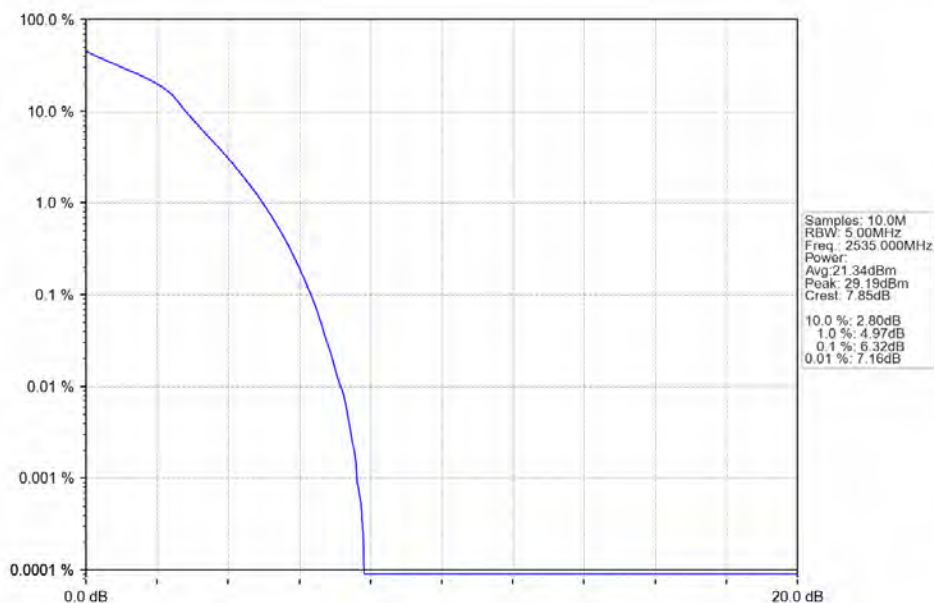
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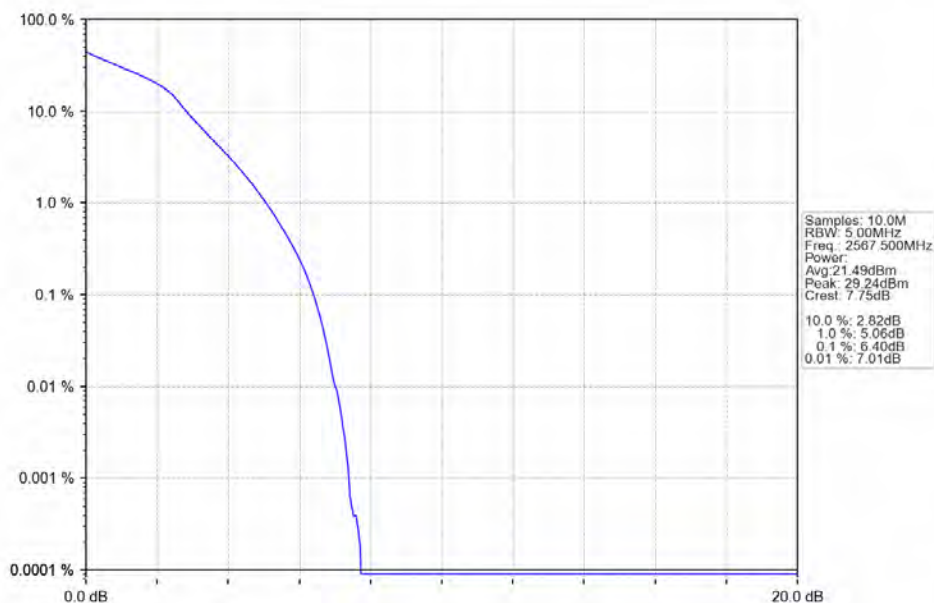
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4.2 B7_10MHz

4.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	5.59	<=13	Pass
	2535	50	0	5.54	<=13	Pass
	2565	50	0	5.59	<=13	Pass
16QAM	2505	50	0	6.33	<=13	Pass
	2535	50	0	6.32	<=13	Pass
	2565	50	0	6.39	<=13	Pass



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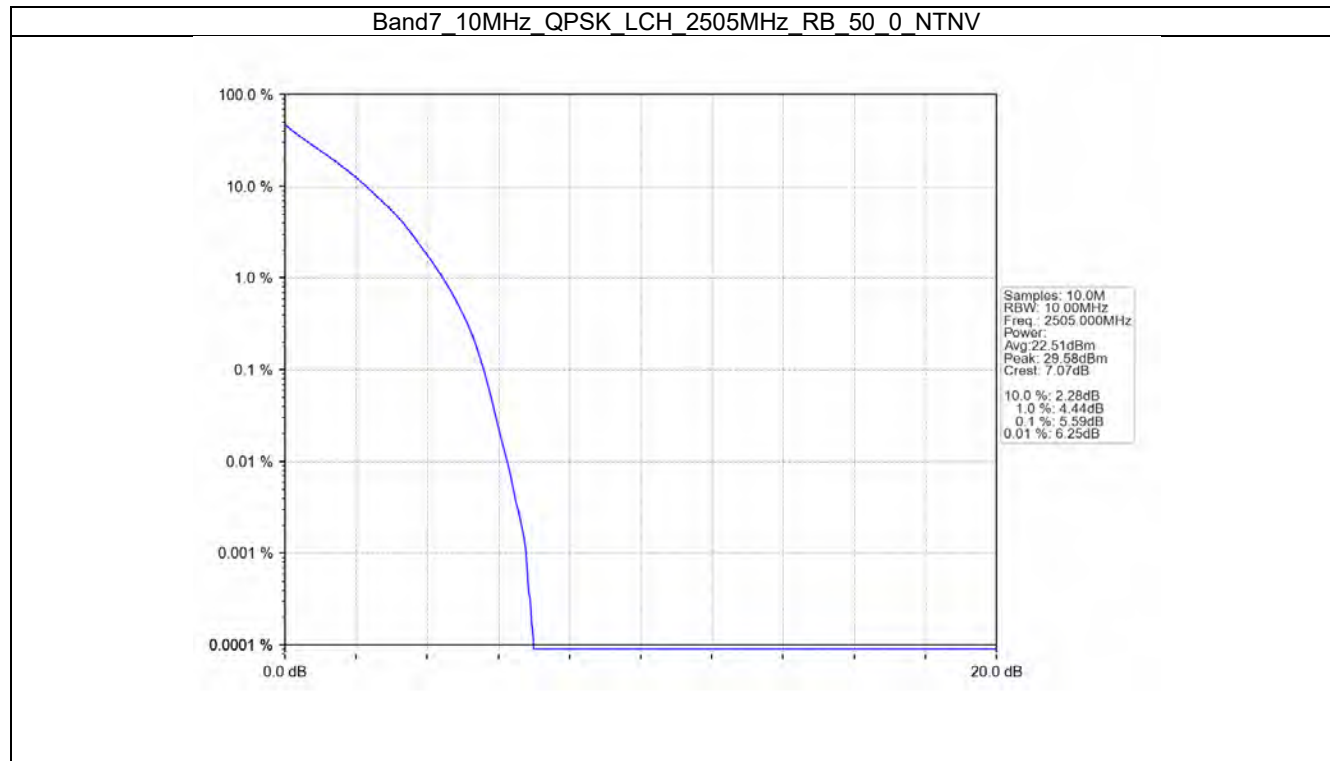
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4.2.2 Test Graph



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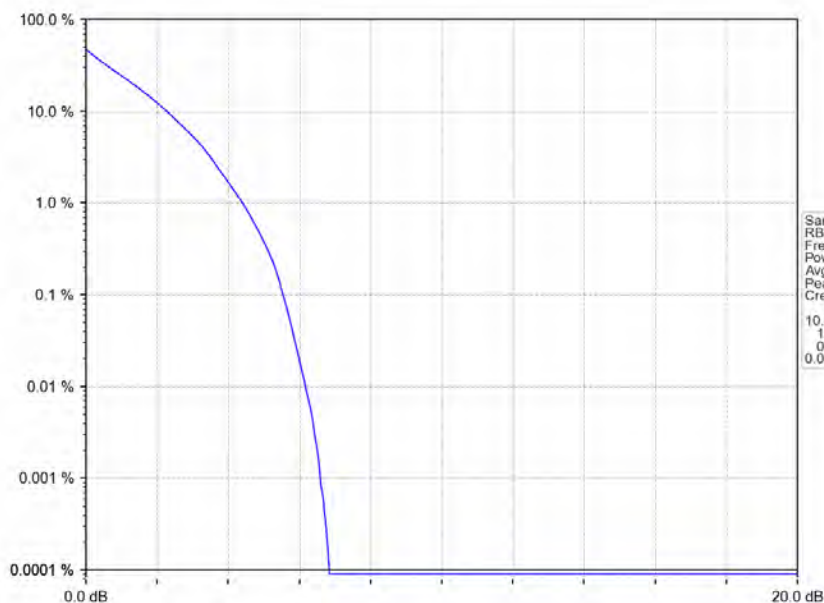
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Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq.: 2535.000MHz
Power:
Avg: 22.39dBm
Peak: 29.32dBm
Crest: 6.93dB
10.0%: 2.27dB
1.0%: 4.40dB
0.1%: 5.54dB
0.01%: 6.17dB



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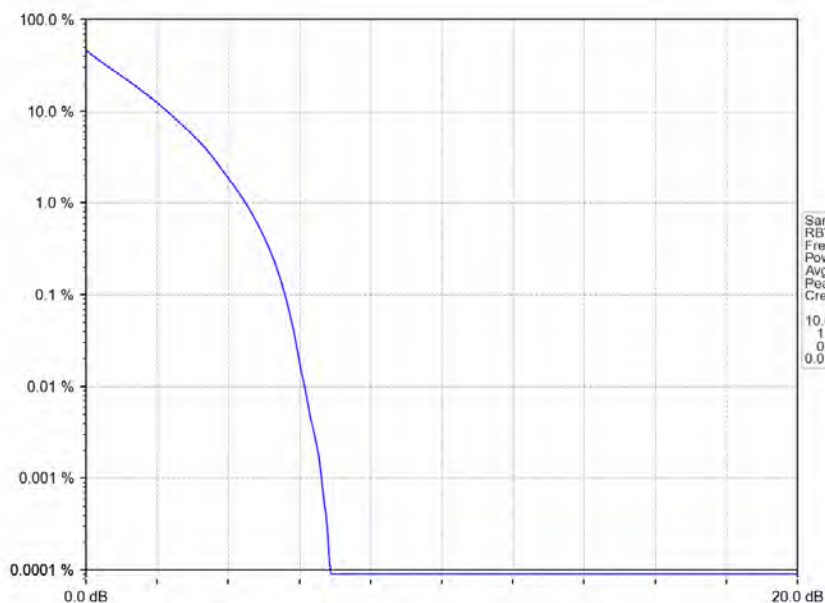
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Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq: 2565.000MHz
Power:
Avg: 22.56dBm
Peak: 29.50dBm
Crest: 6.94dB
10.0 %: 2.28dB
1.0 %: 4.49dB
0.1 %: 5.59dB
0.01 %: 6.14dB



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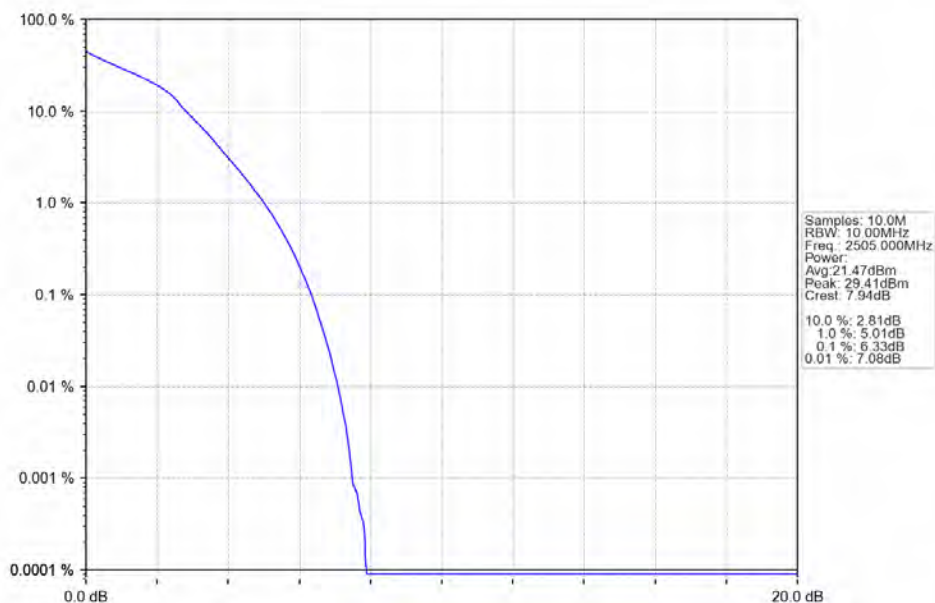
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Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



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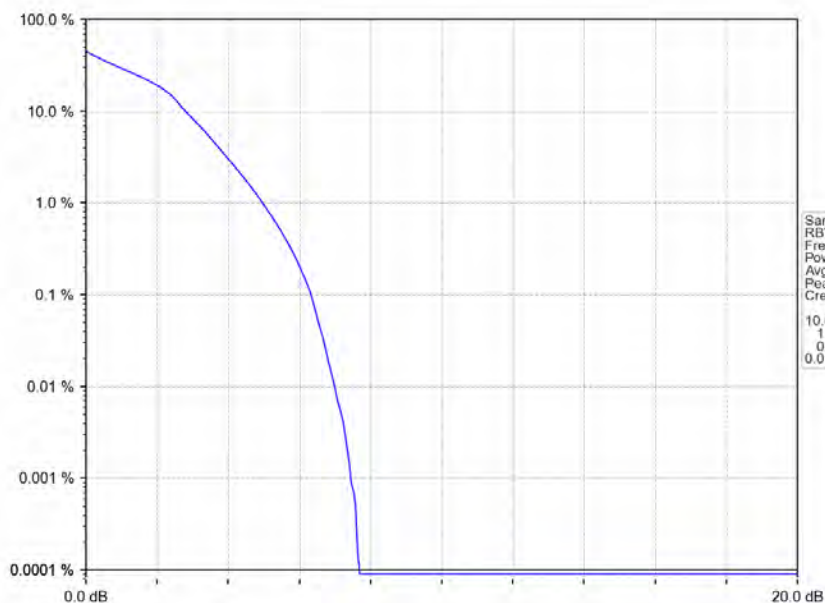
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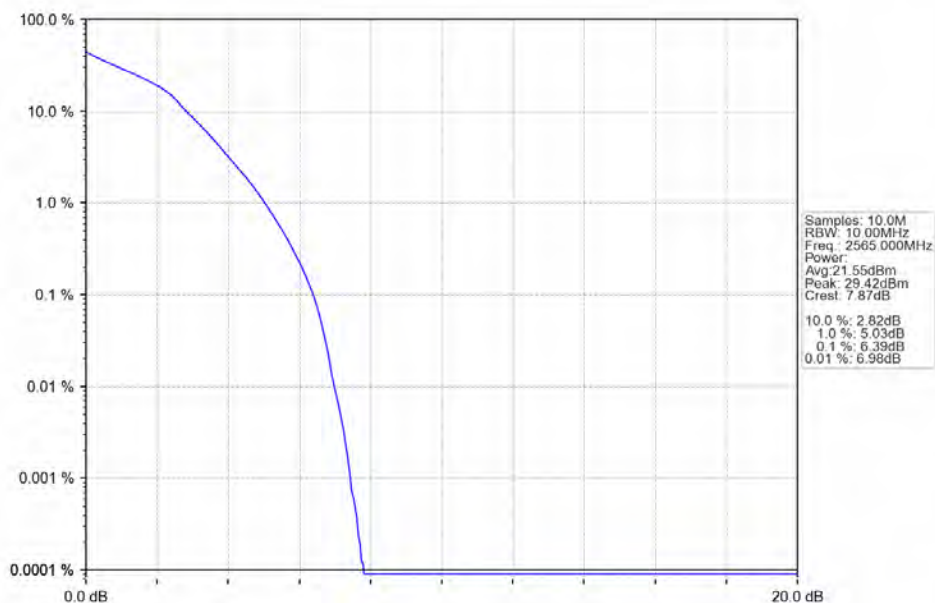
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Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



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4.3 B7_15MHz

4.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.67	<=13	Pass
	2535	75	0	5.68	<=13	Pass
	2562.5	75	0	5.78	<=13	Pass
16QAM	2507.5	75	0	6.29	<=13	Pass
	2535	75	0	6.31	<=13	Pass
	2562.5	75	0	6.42	<=13	Pass



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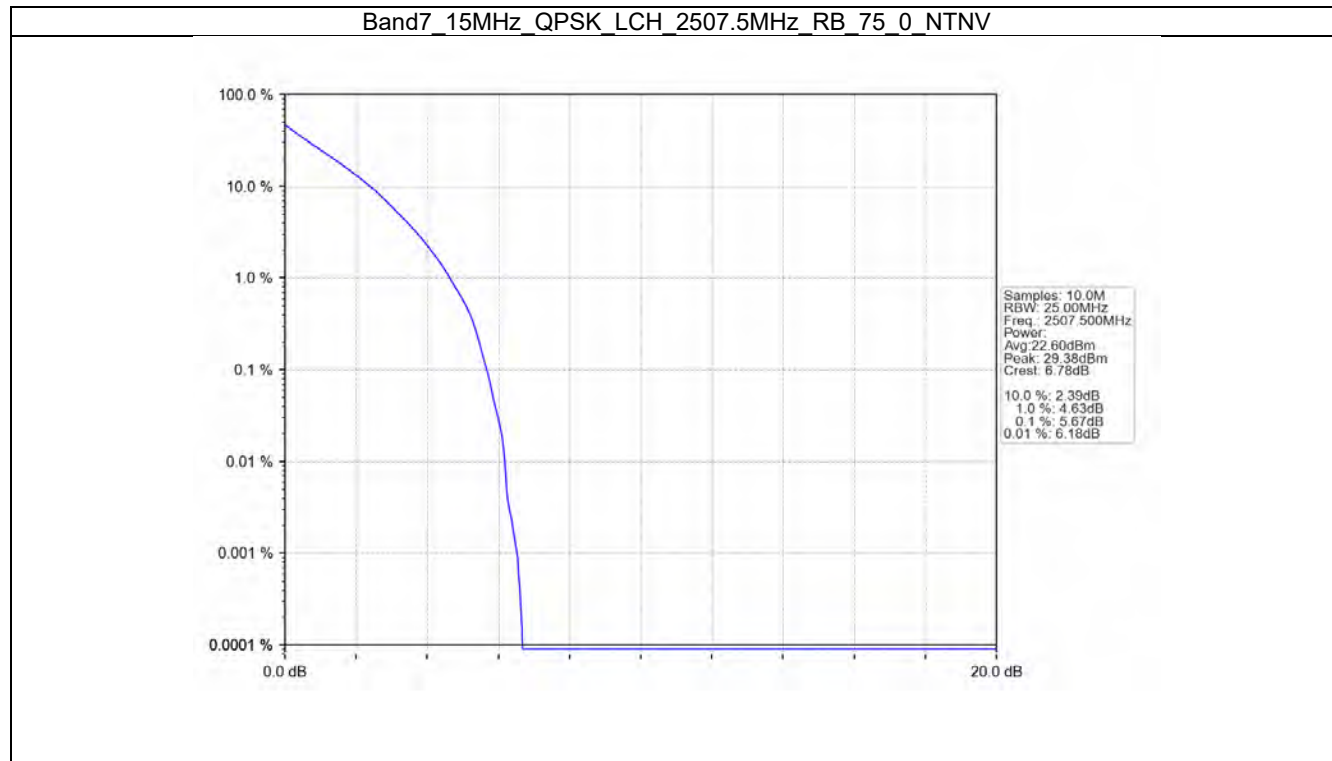
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4.3.2 Test Graph



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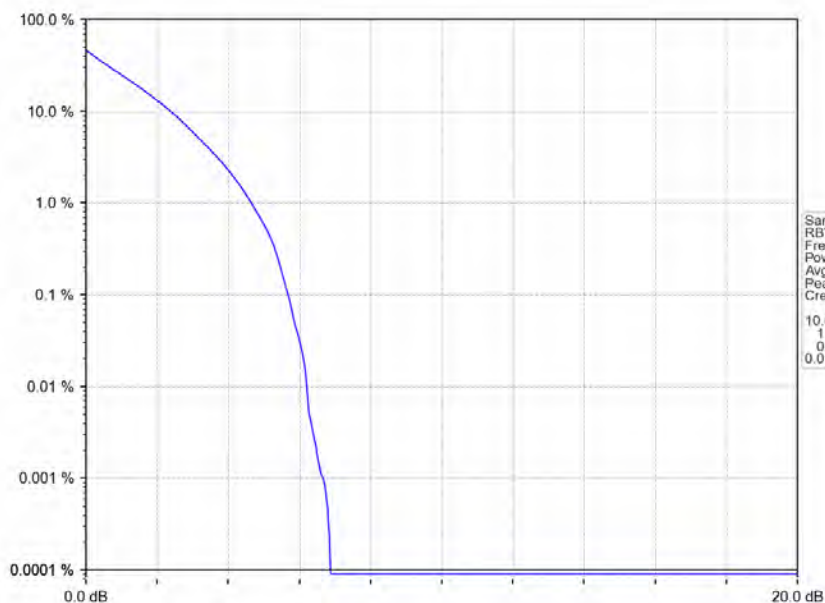
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Band7 15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2535.000MHz
Power:
Avg: 22.51dBm
Peak: 29.42dBm
Crest: 6.91dB
10.0%: 2.38dB
1.0%: 4.65dB
0.1%: 5.68dB
0.01%: 6.21dB



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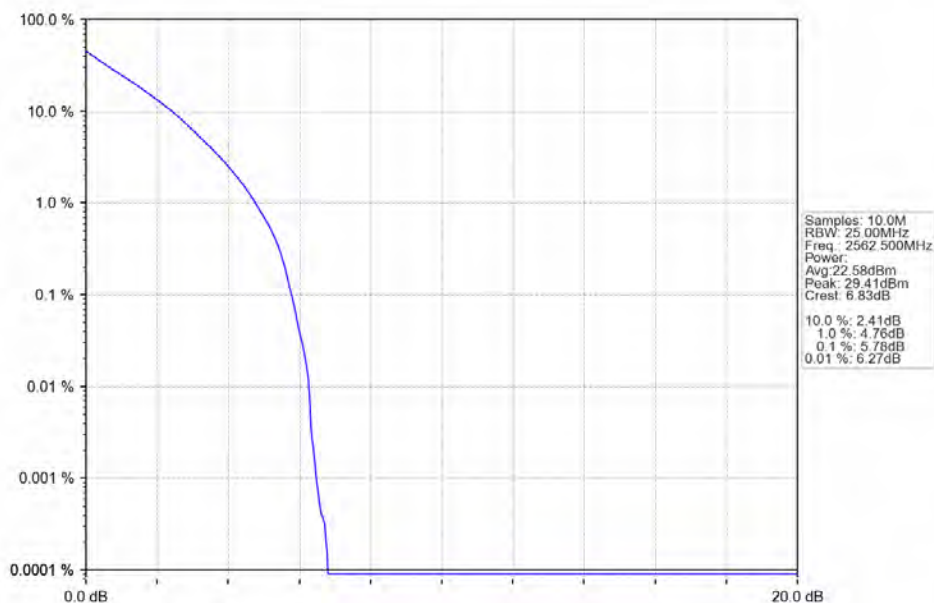
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Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



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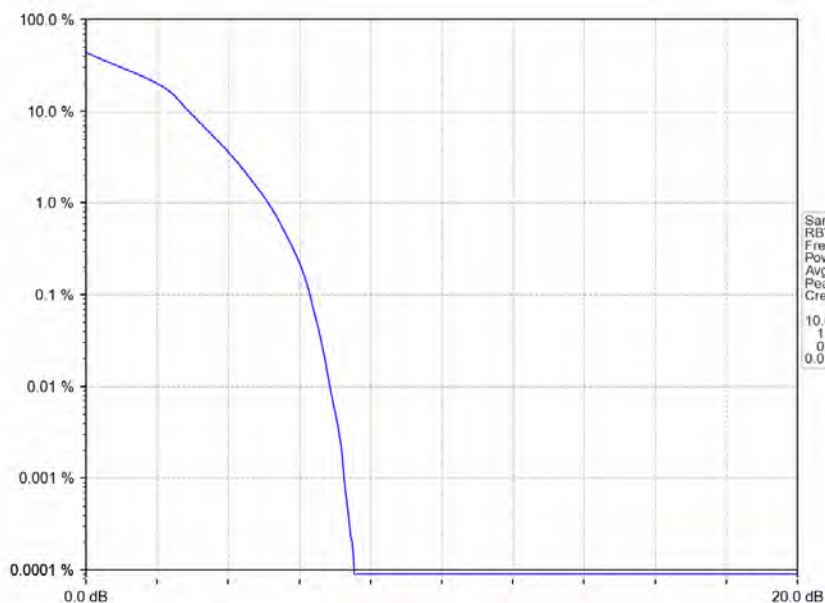
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Band7_15MHz_16QAM_LCH_2507.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 2507.500MHz
Power:
Avg: 21.56dBm
Peak: 29.16dBm
Crest: 7.60dB
10.0 %: 2.89dB
1.0 %: 5.12dB
0.1 %: 6.29dB
0.01 %: 6.86dB



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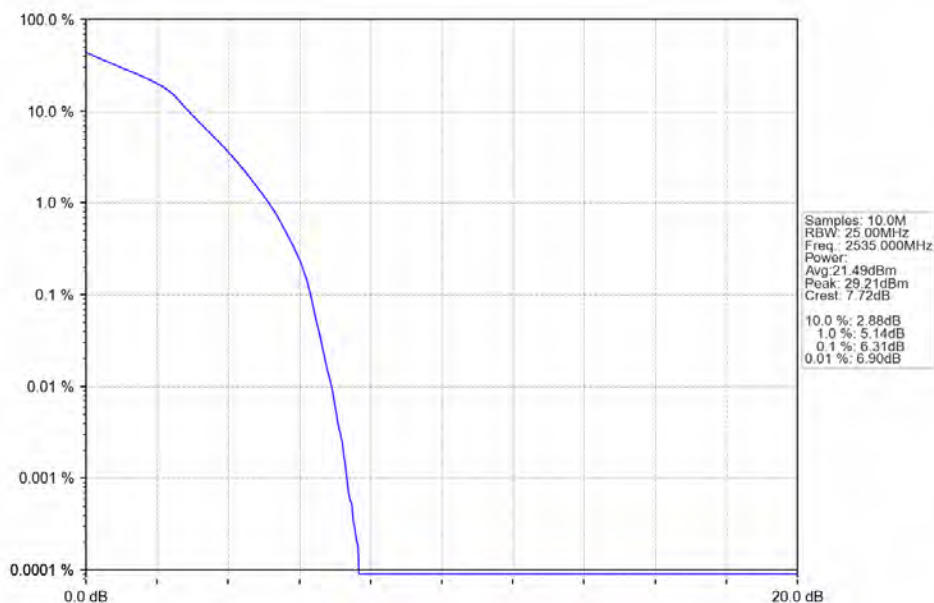
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Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV



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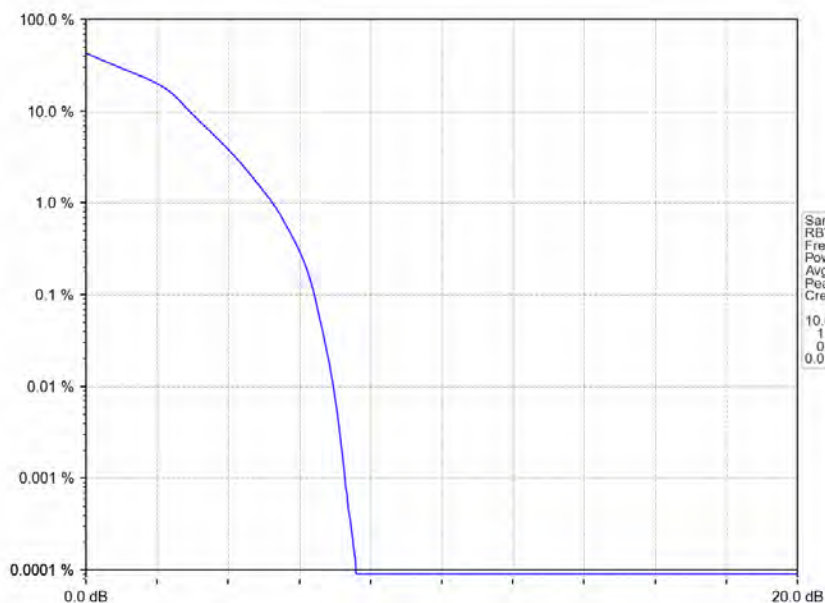
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Samples: 10.0M
RBW: 25.00MHz
Freq: 2562.500MHz
Power:
Avg: 21.60dBm
Peak: 29.23dBm
Crest: 7.63dB
10.0%: 2.91dB
1.0%: 5.24dB
0.1%: 6.42dB
0.01%: 6.95dB



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4.4 B7_20MHz

4.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.38	<=13	Pass
	2535	100	0	5.47	<=13	Pass
	2560	100	0	5.59	<=13	Pass
16QAM	2510	100	0	6.19	<=13	Pass
	2535	100	0	6.25	<=13	Pass
	2560	100	0	6.37	<=13	Pass



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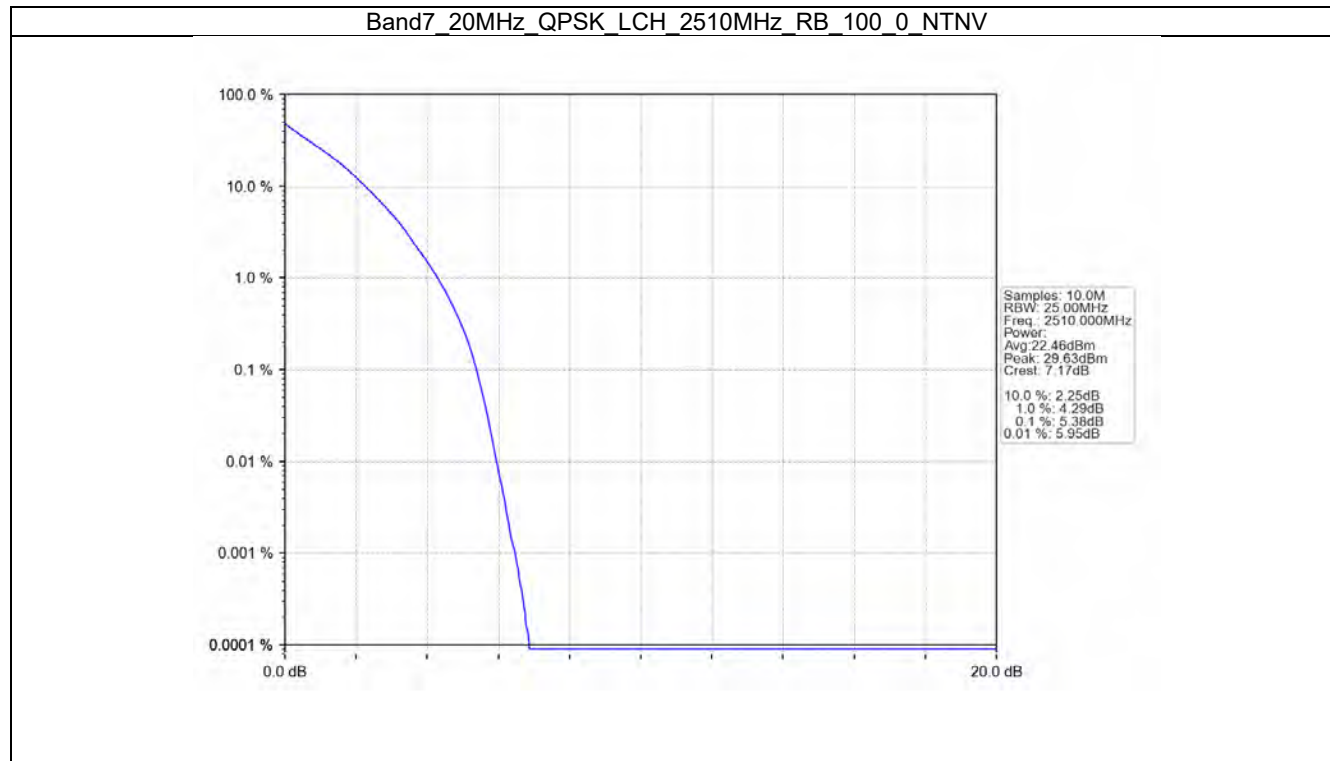
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4.4.2 Test Graph



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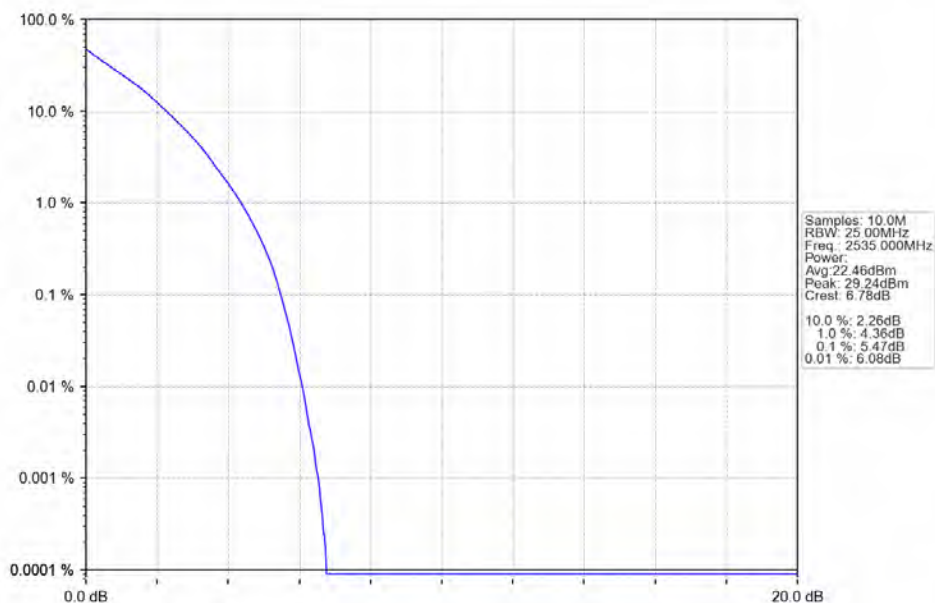
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Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



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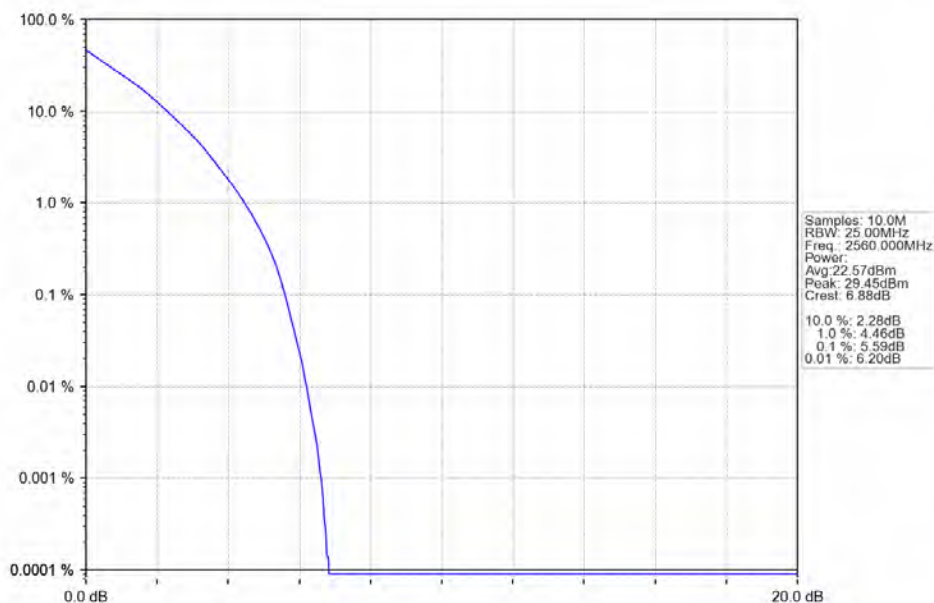
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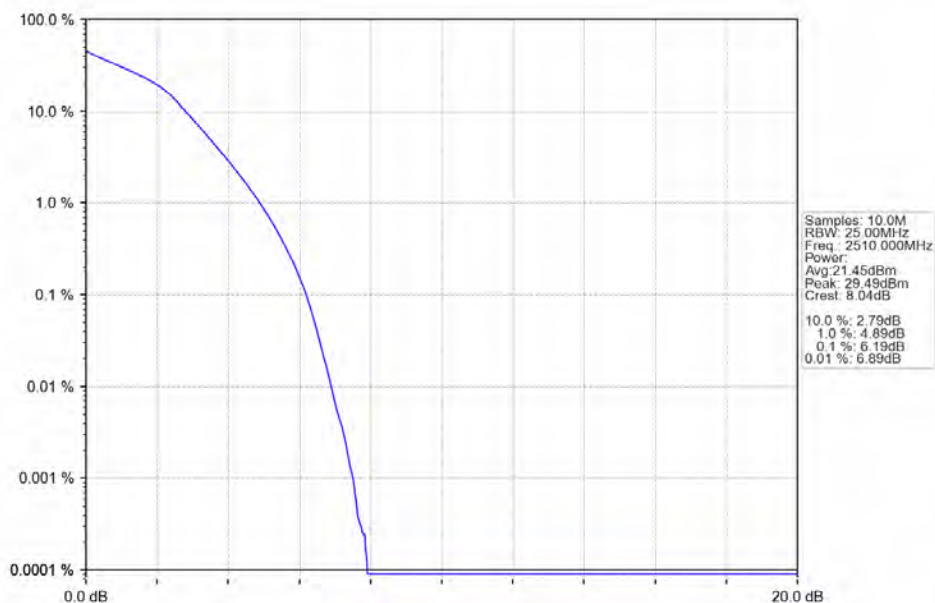
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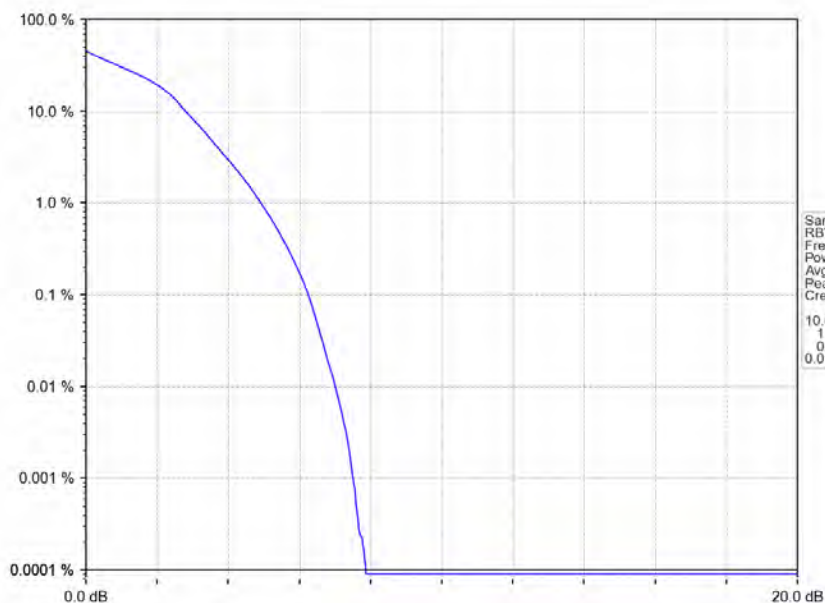
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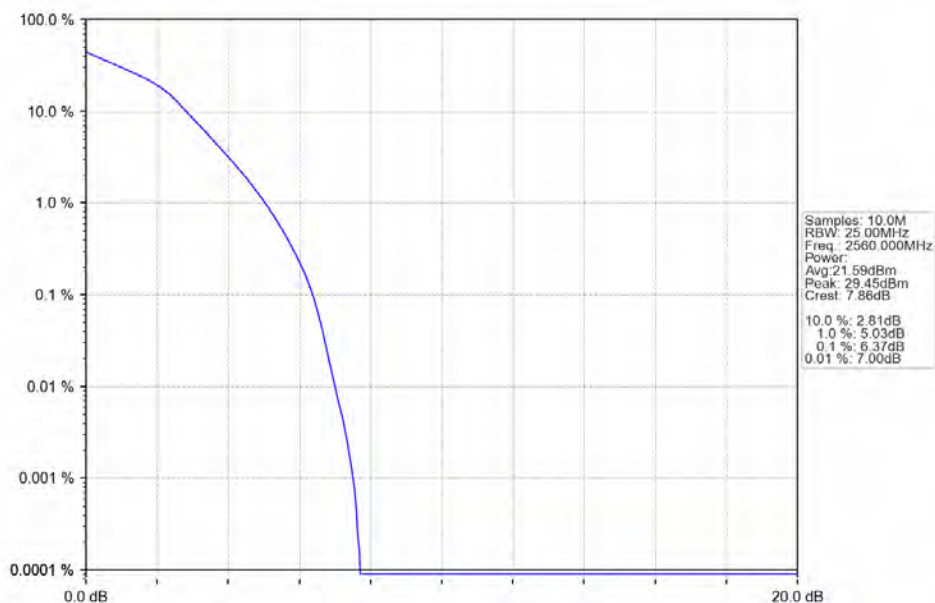
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5. Spurious Emission & Band Edge

5.1 B7_5MHz

5.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2502.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	2535	1	0	Refer To Test Graph	Pass
	2567.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



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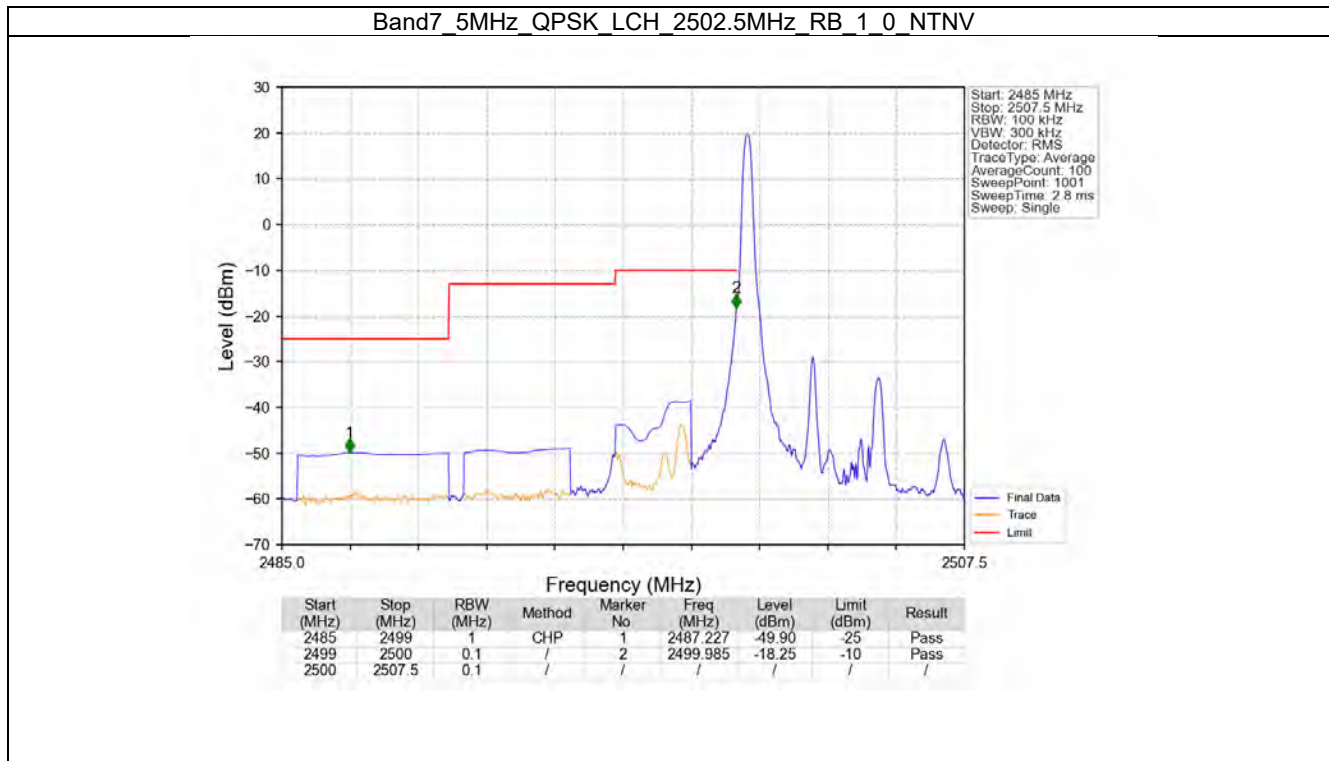
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5.1.2 Test Graph



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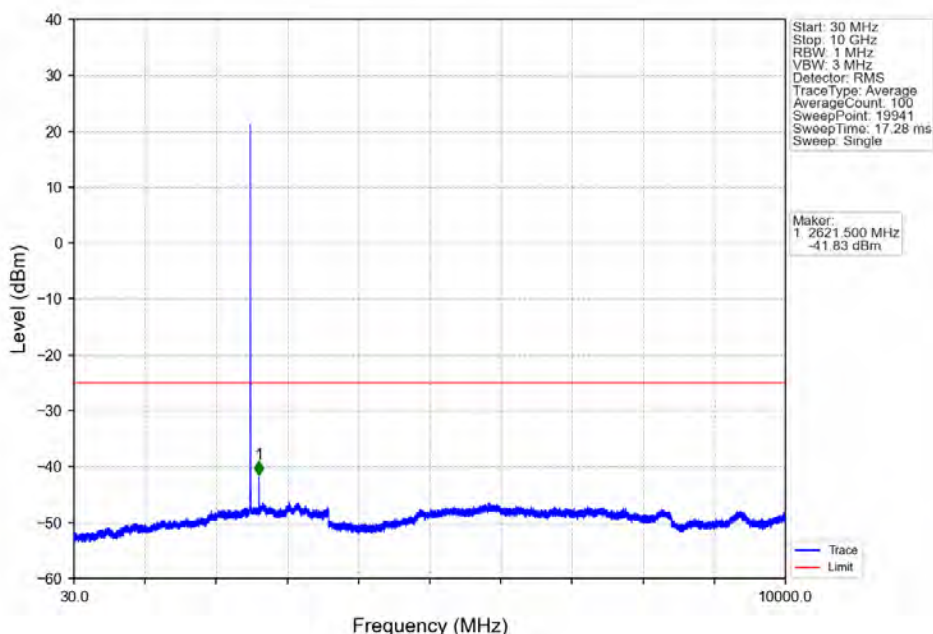
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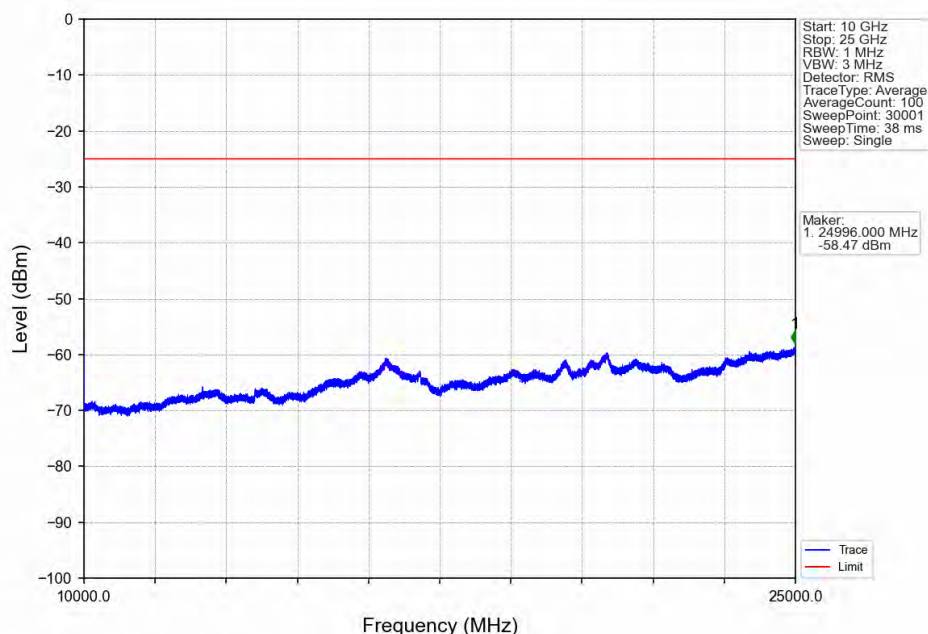
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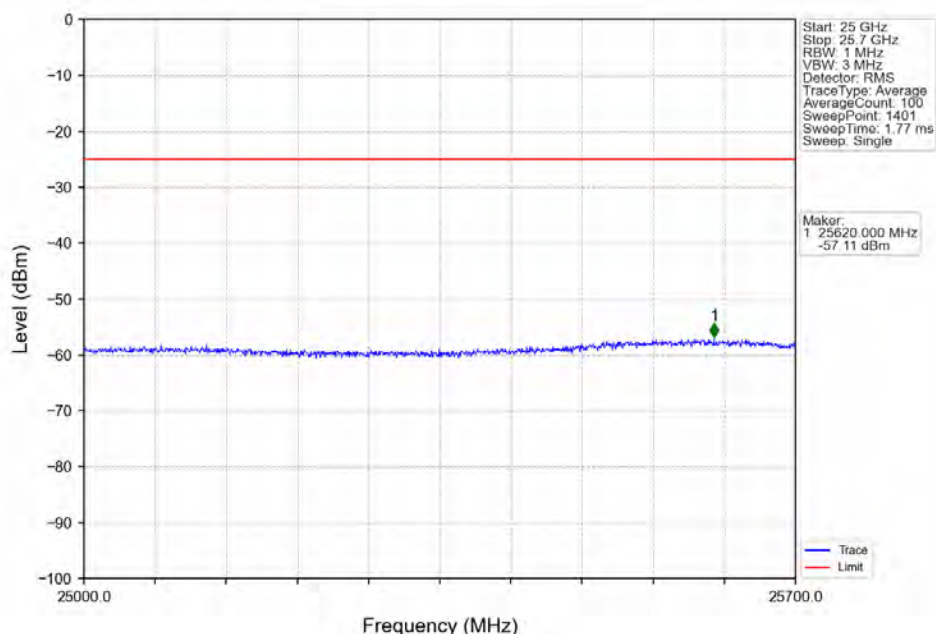
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Band7_5MHz_QPSK_LCH_2502.5MHz_RB_1_0_NTNV



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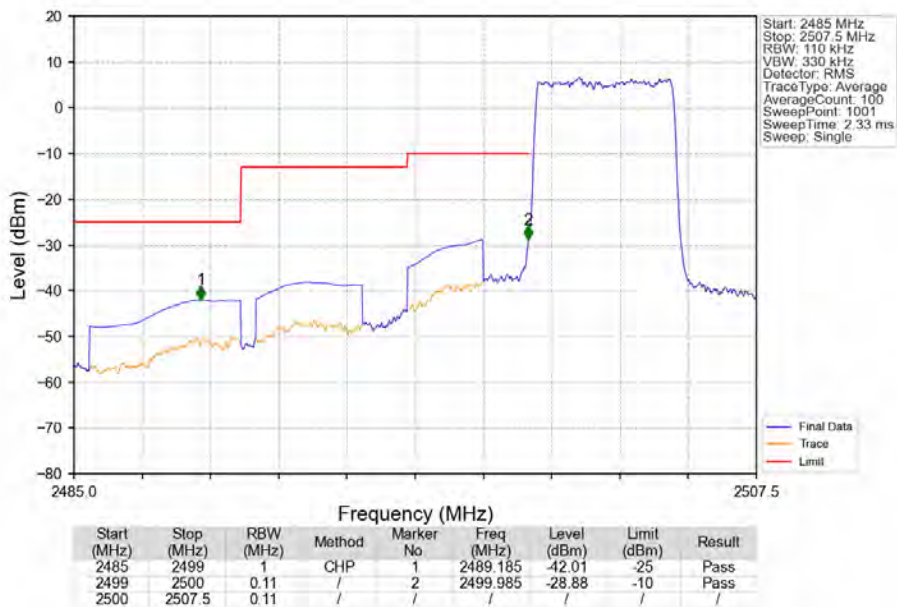
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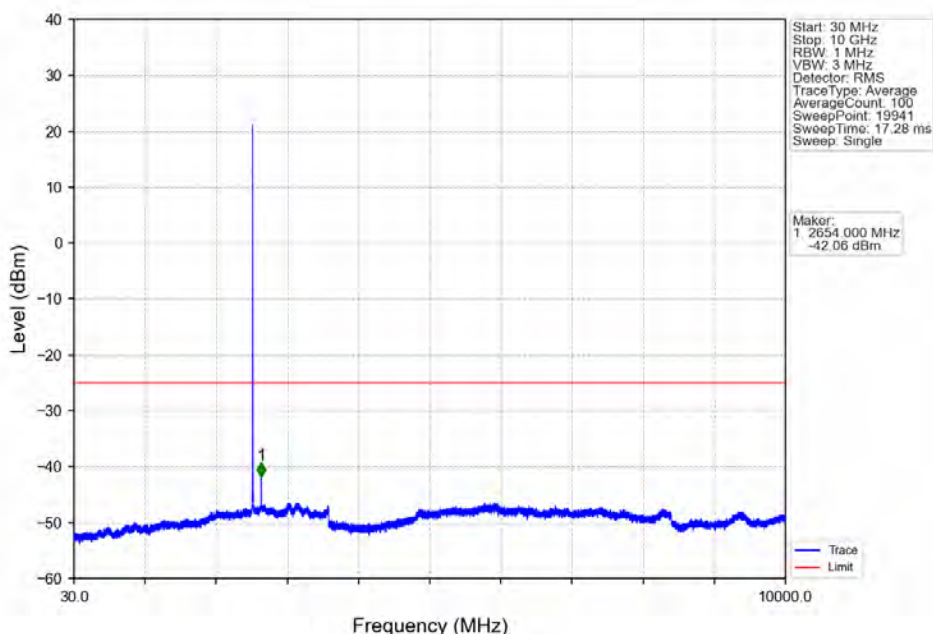
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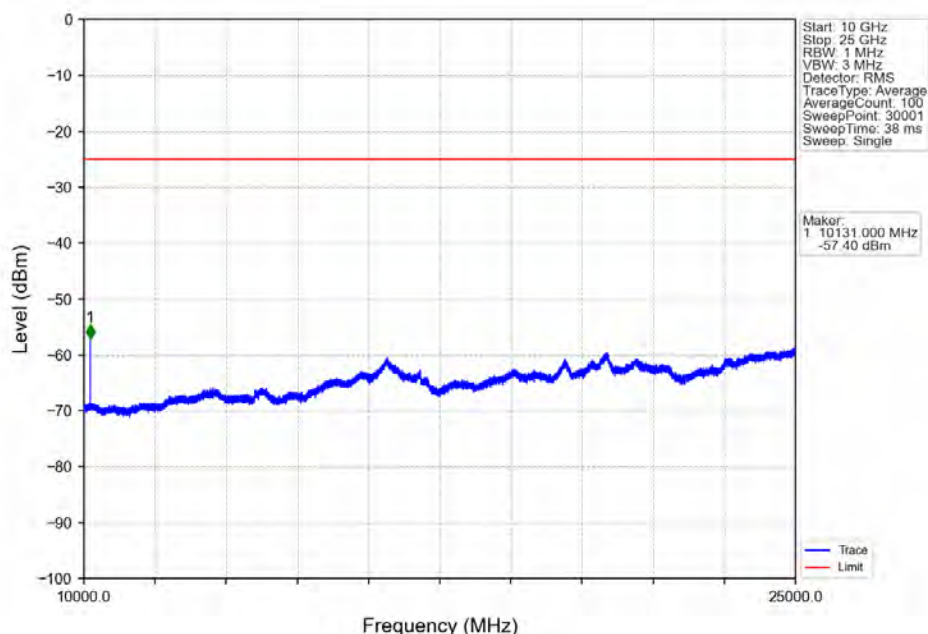
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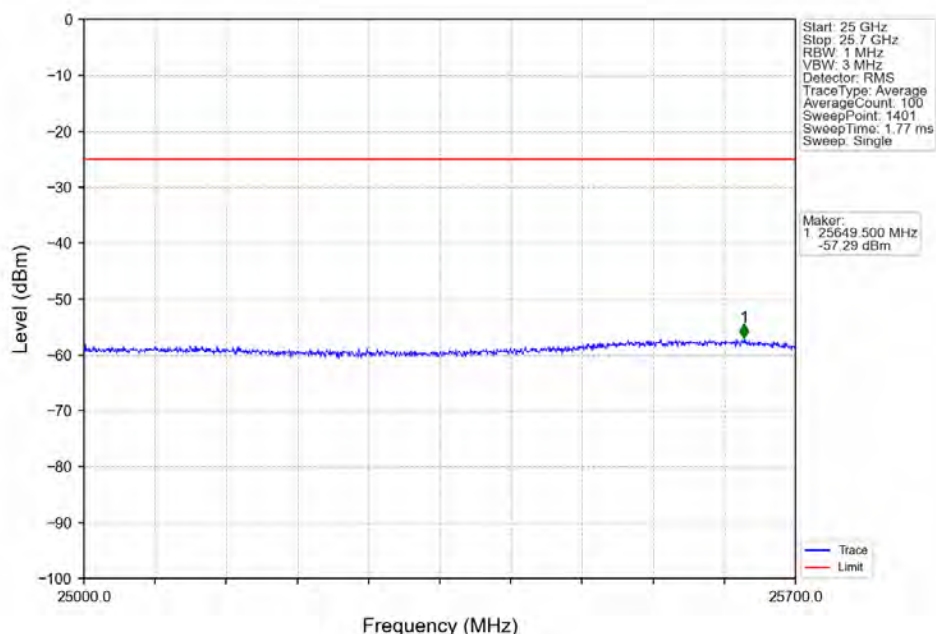
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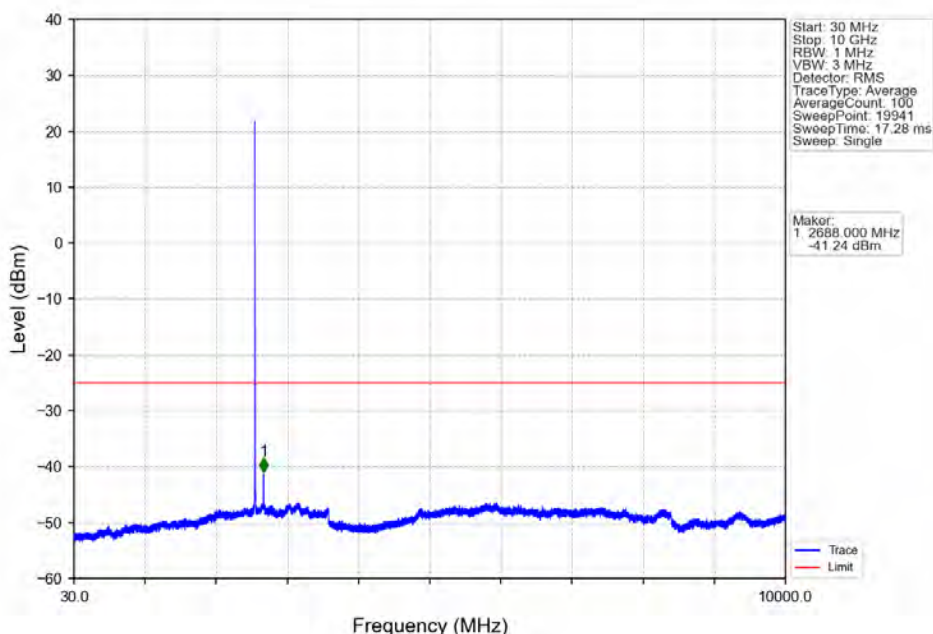
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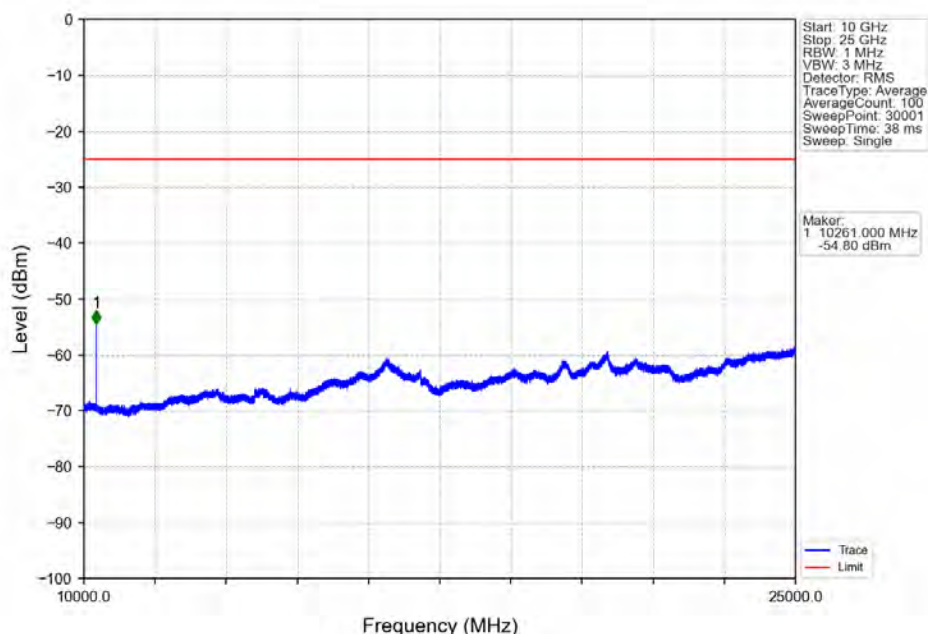
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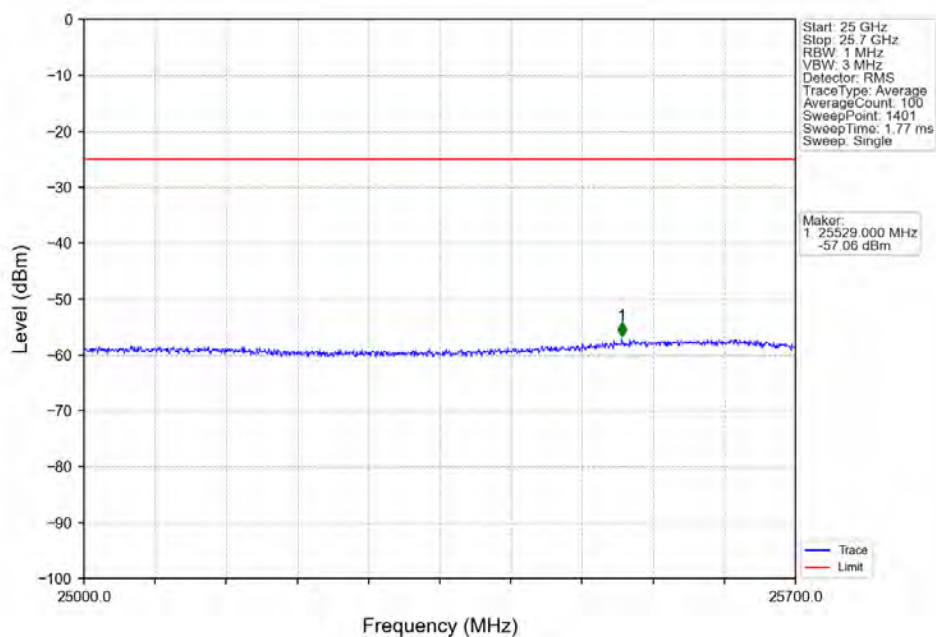
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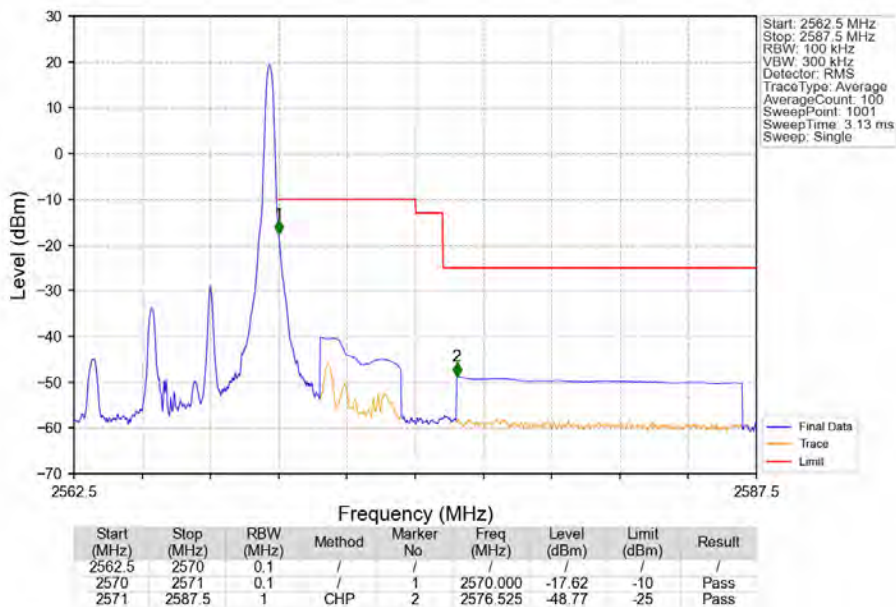
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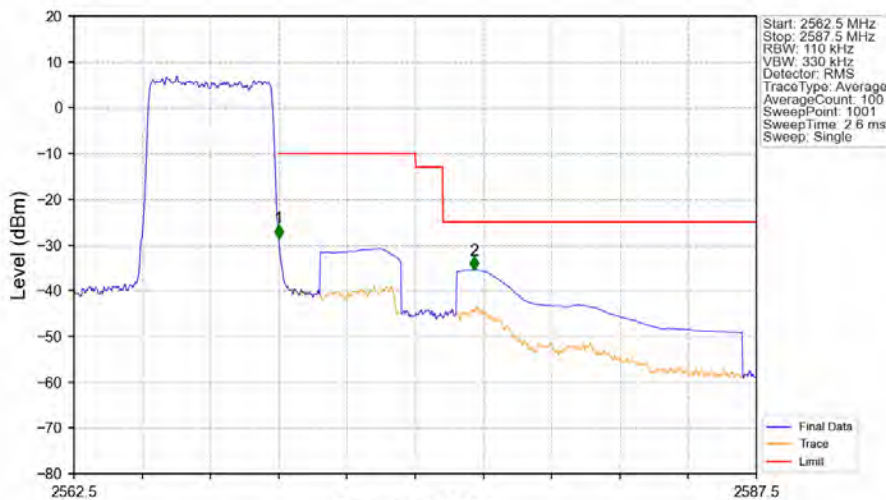
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.11	/	1	2570.000	-28.59	-10	Pass
2570	2571	0.11	/	1	2570.000	-28.59	-10	Pass
2571	2587.5	1	CHP	2	2577.150	-35.52	-25	Pass



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5.2 B7_10MHz

5.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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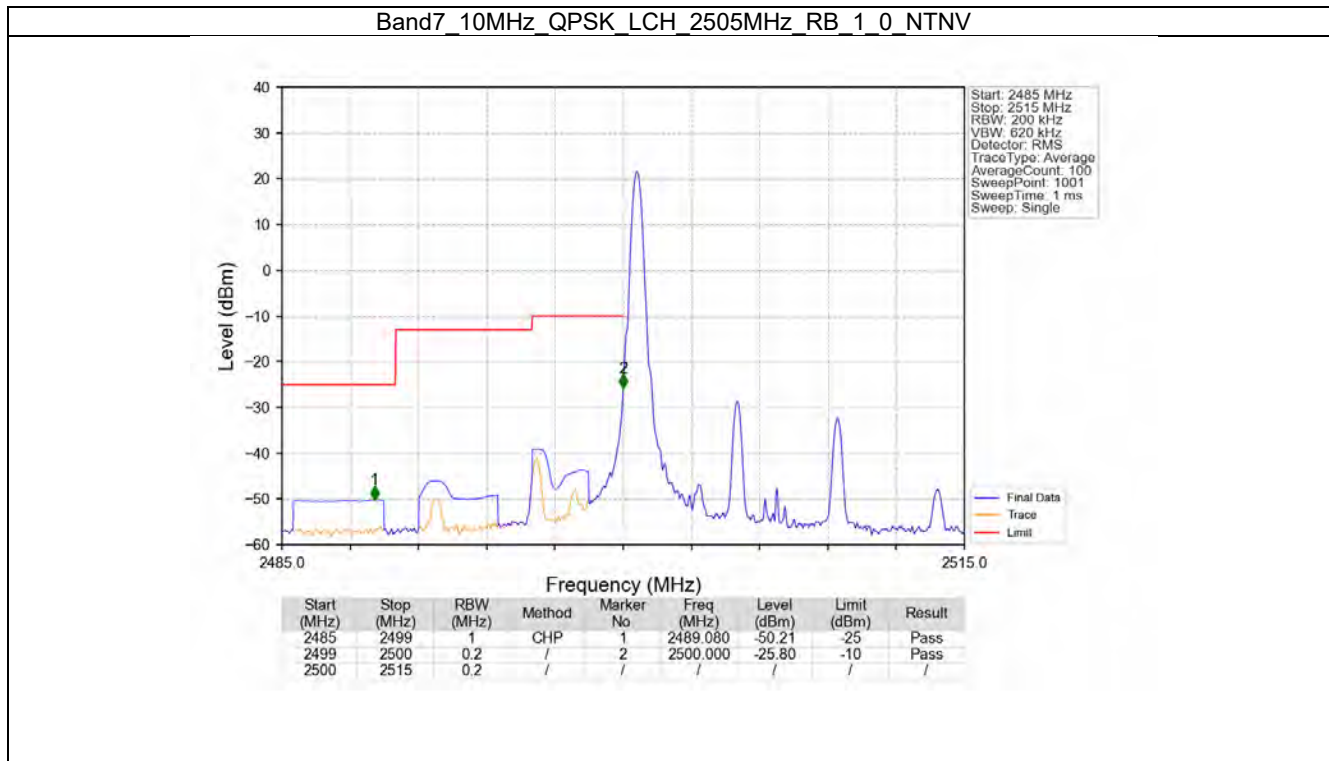
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5.2.2 Test Graph



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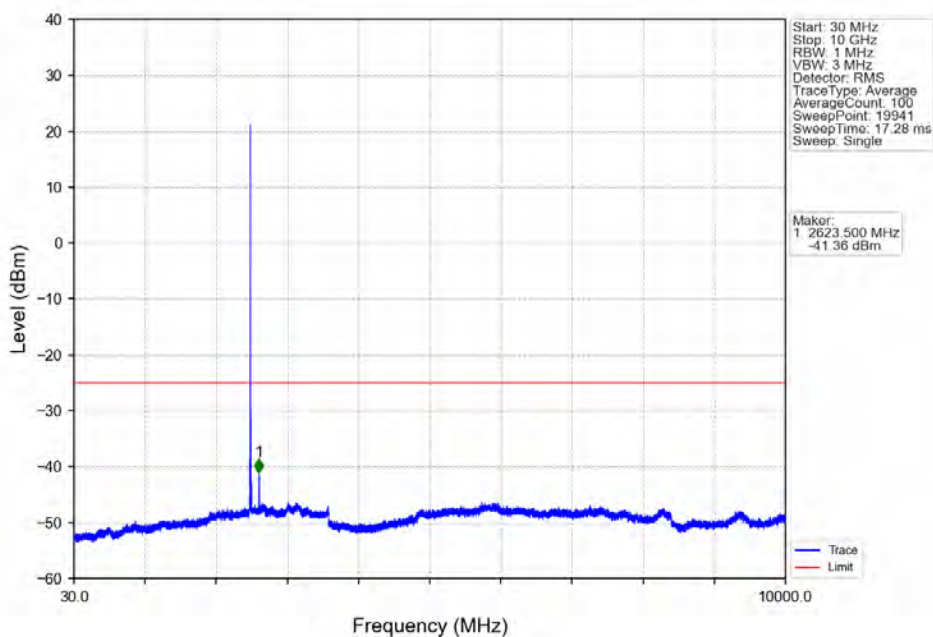
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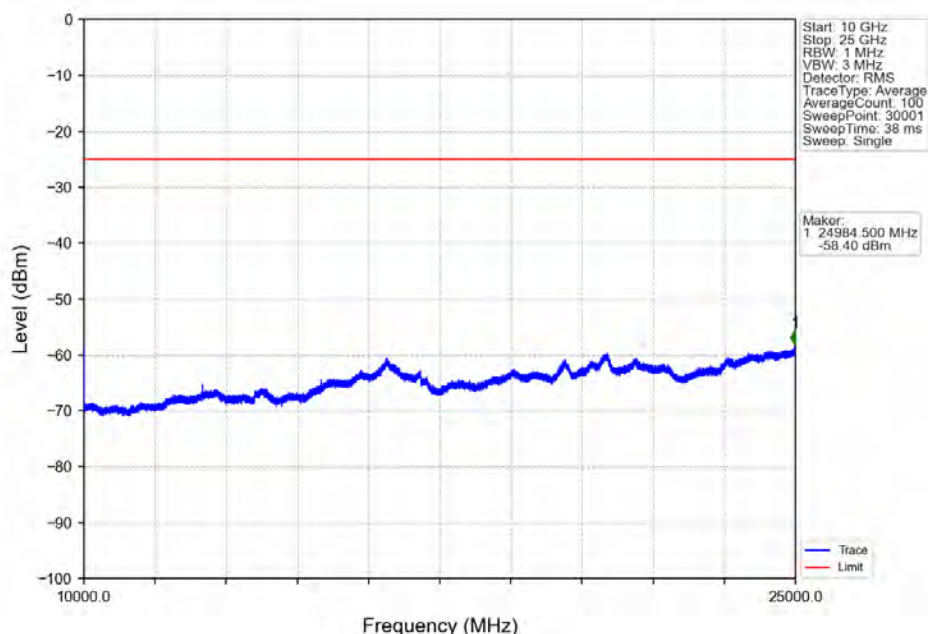
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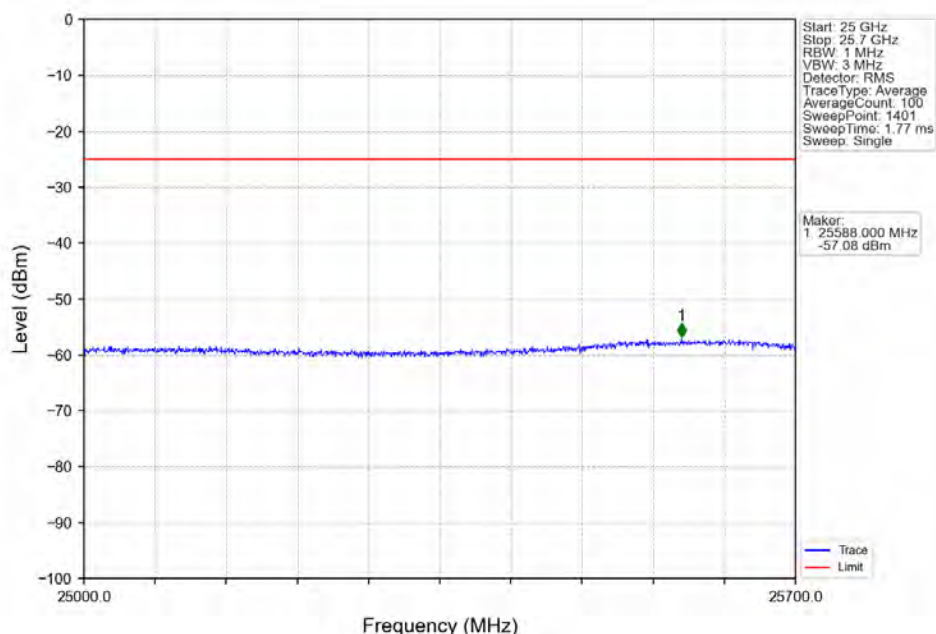
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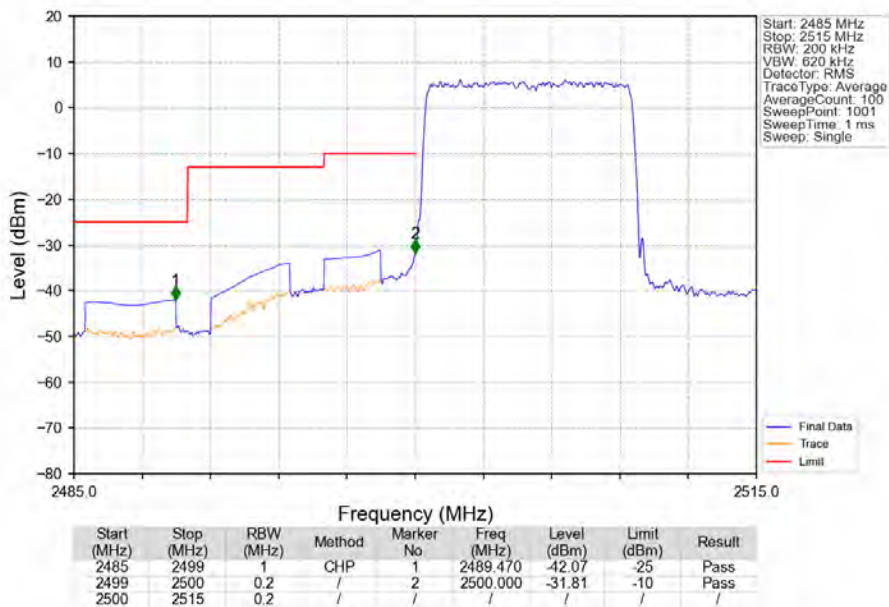
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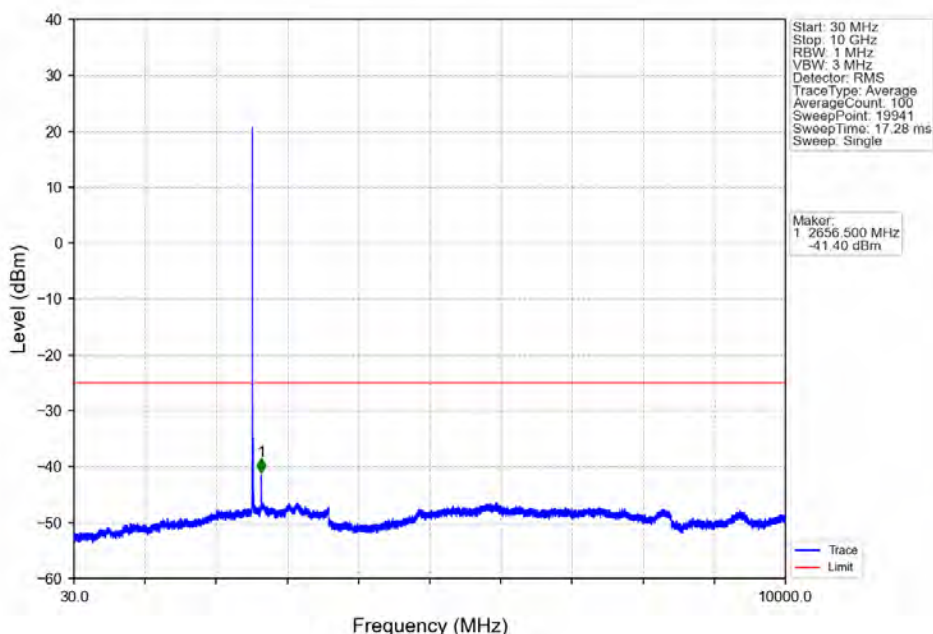
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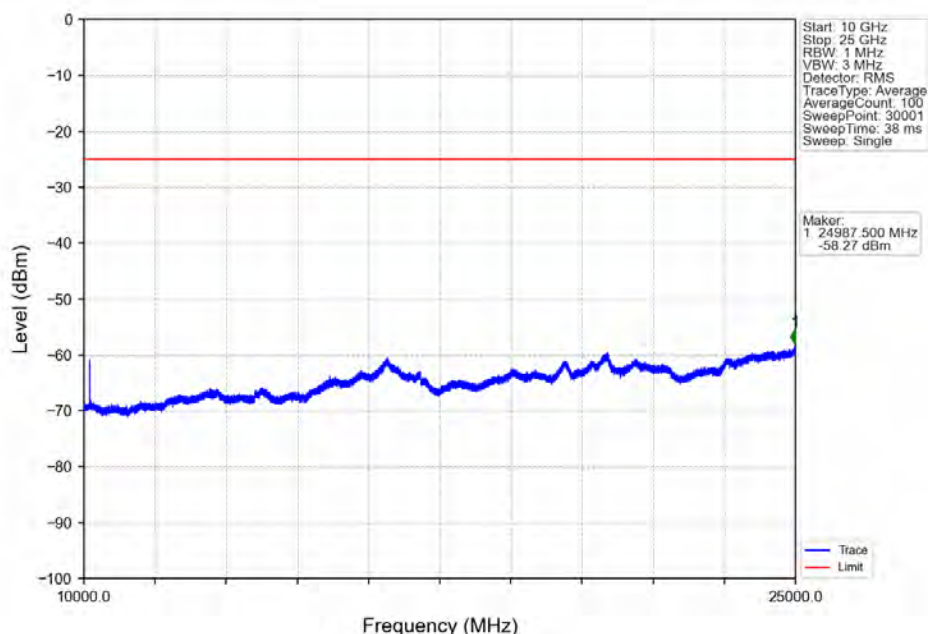
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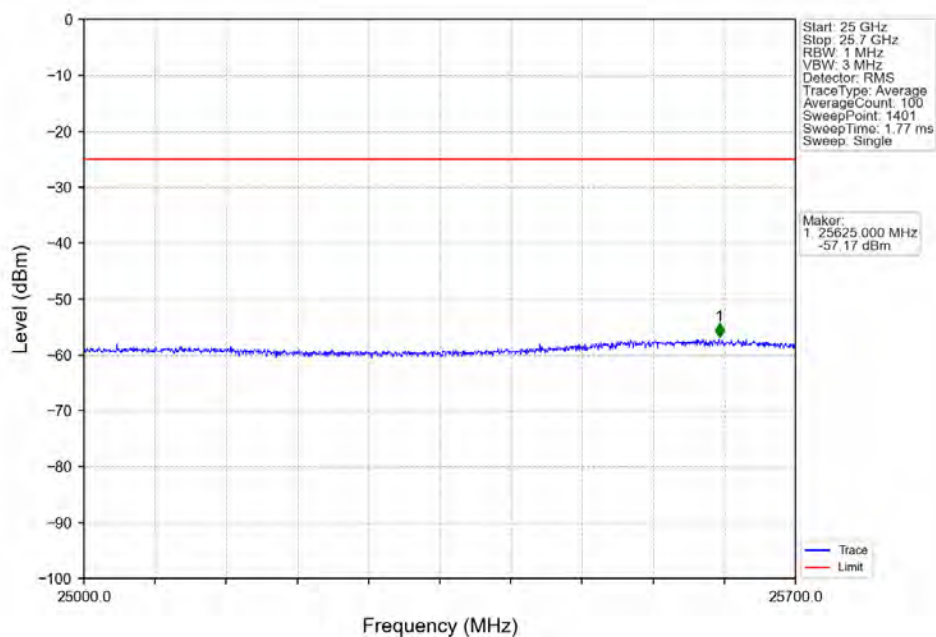
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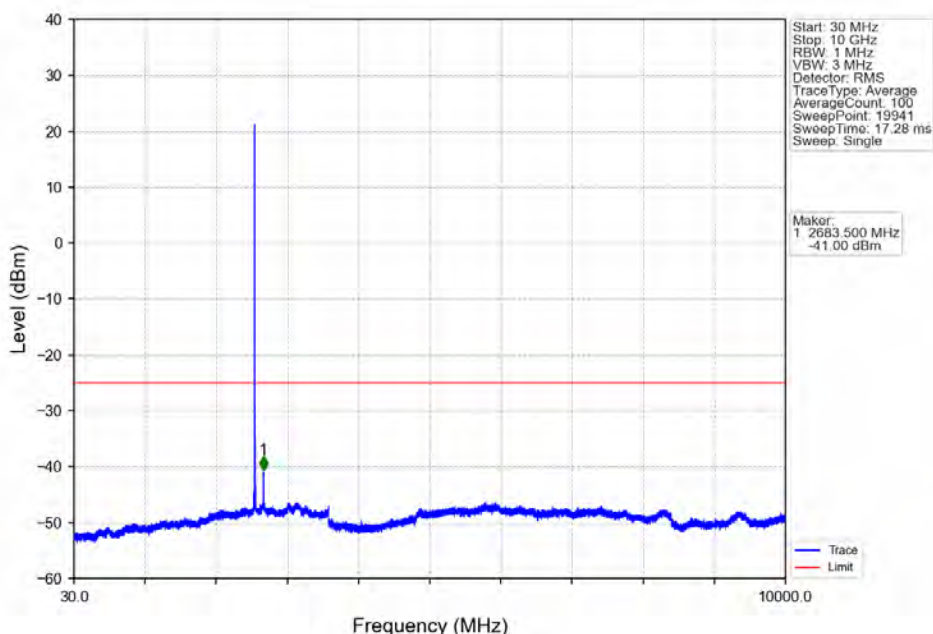
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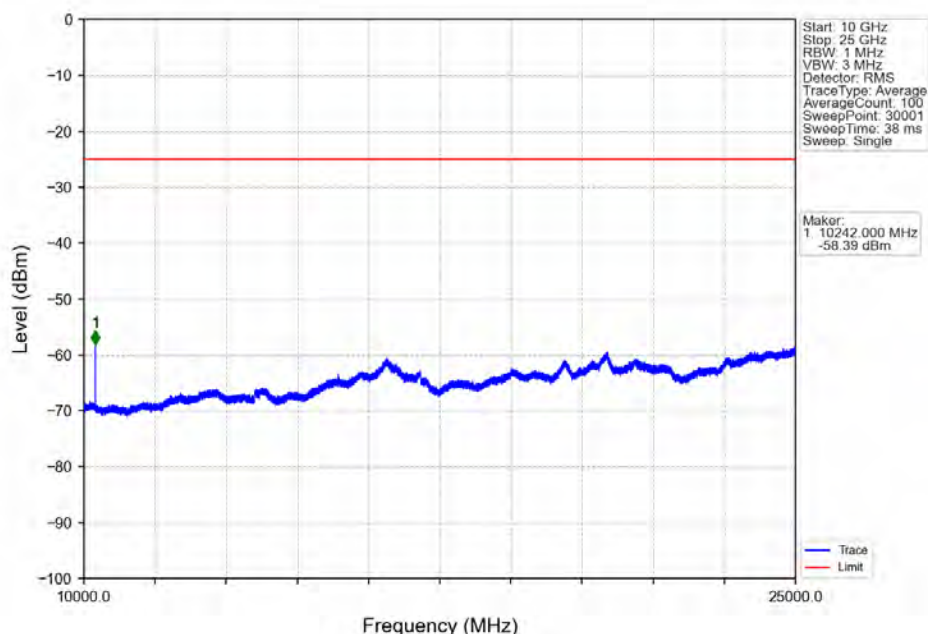
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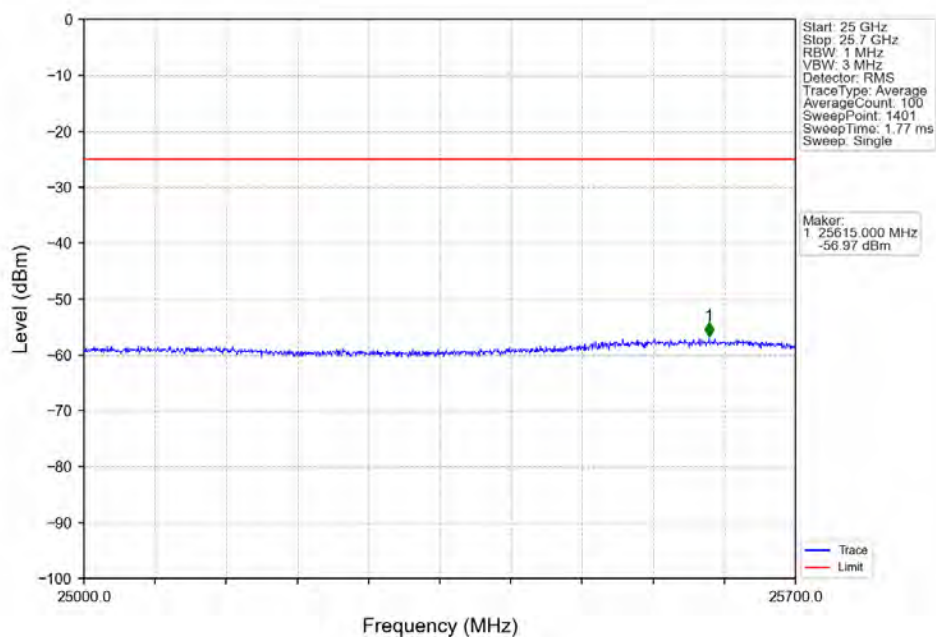
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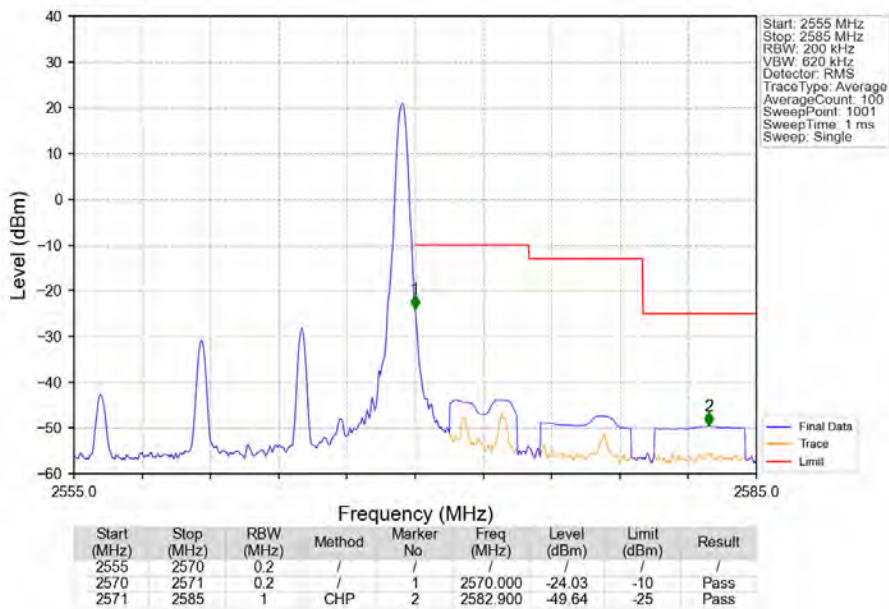
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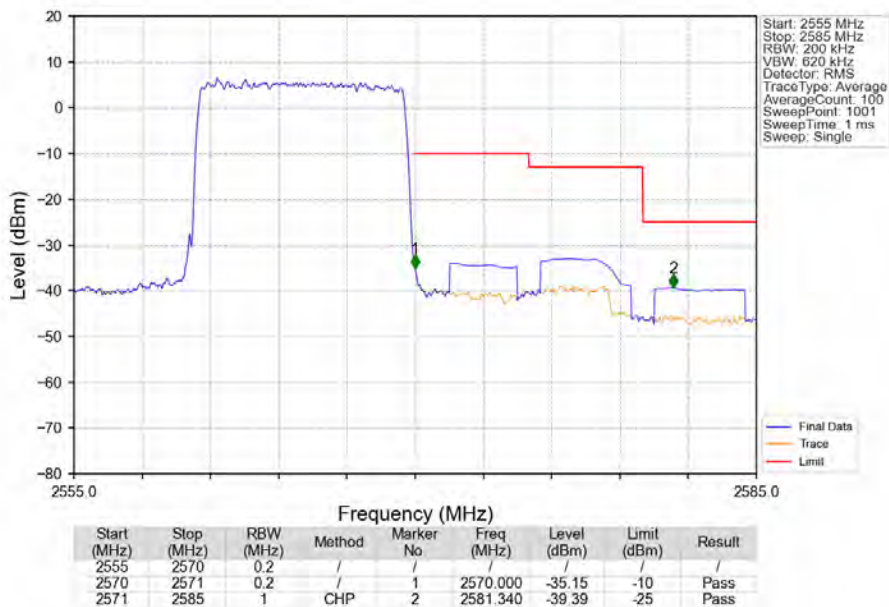
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5.3 B7_15MHz

5.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2507.5	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	2535	1	0	Refer To Test Graph	Pass
	2562.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass



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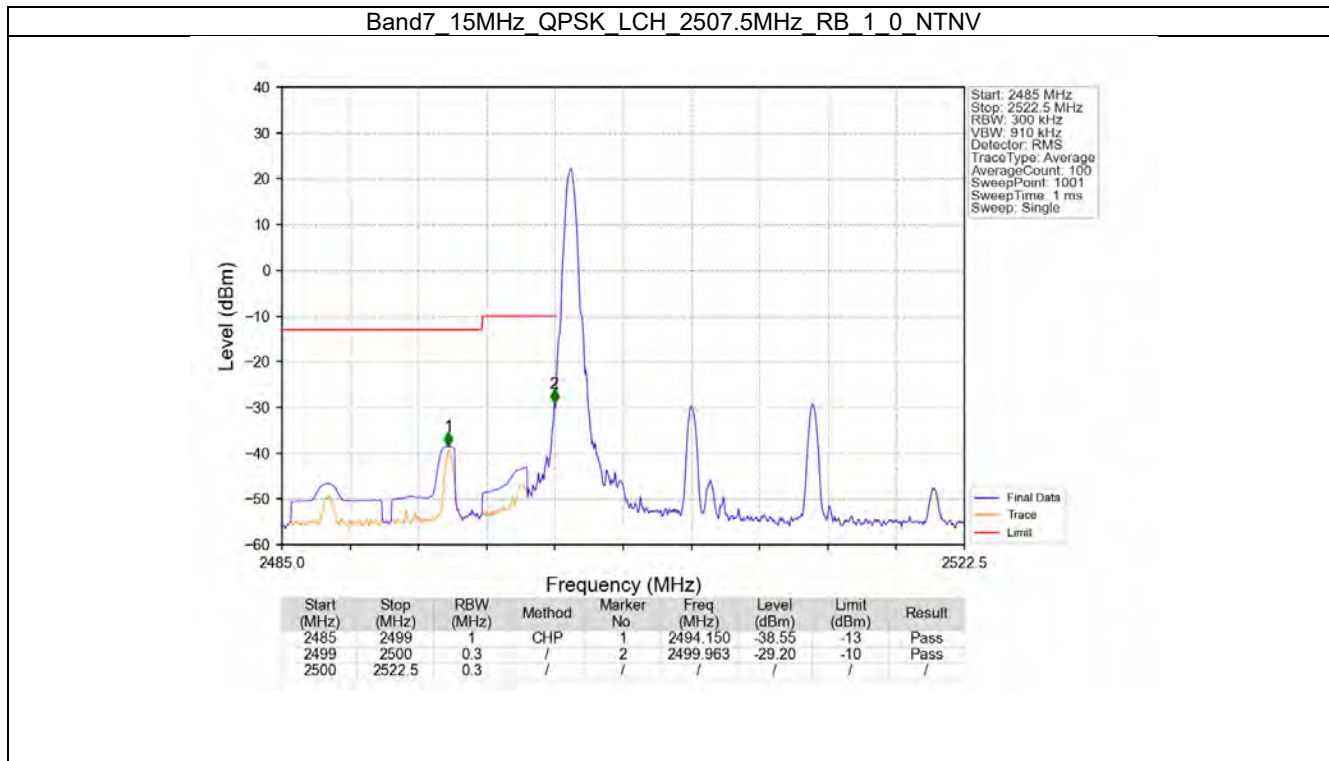
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5.3.2 Test Graph



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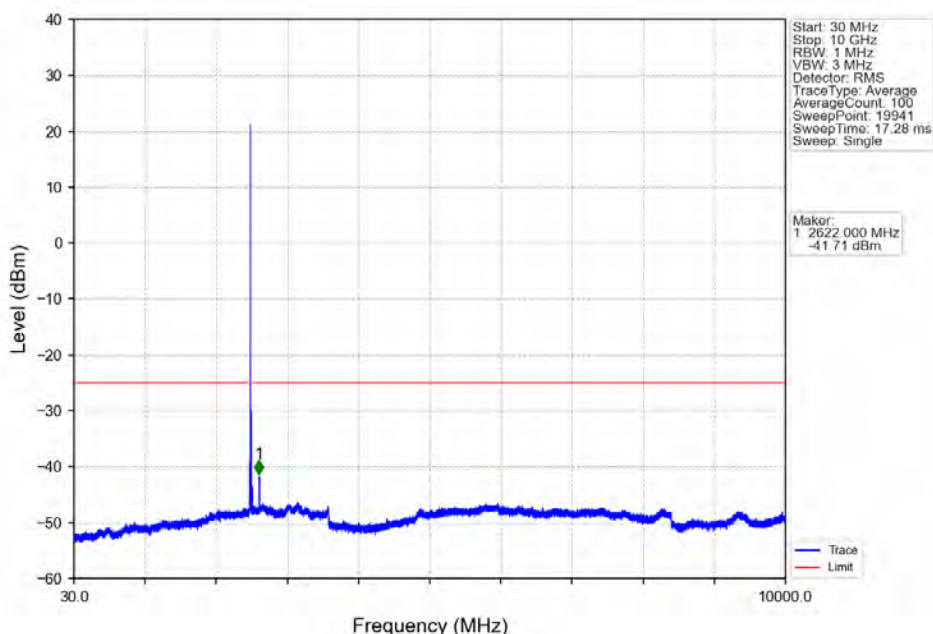
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Band7_15MHz_QPSK_LCH_2507.5MHz_RB_1_0_NTNV



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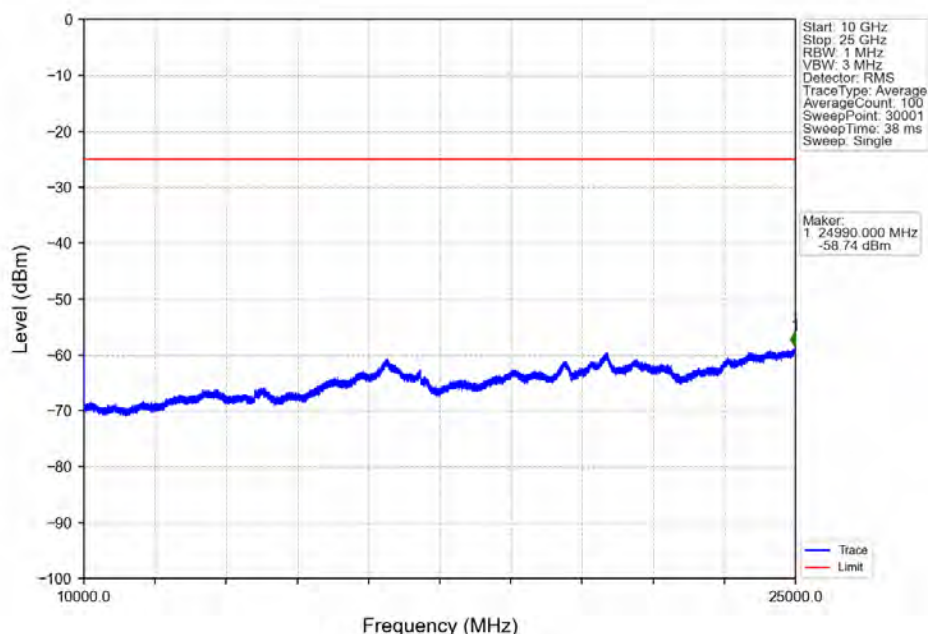
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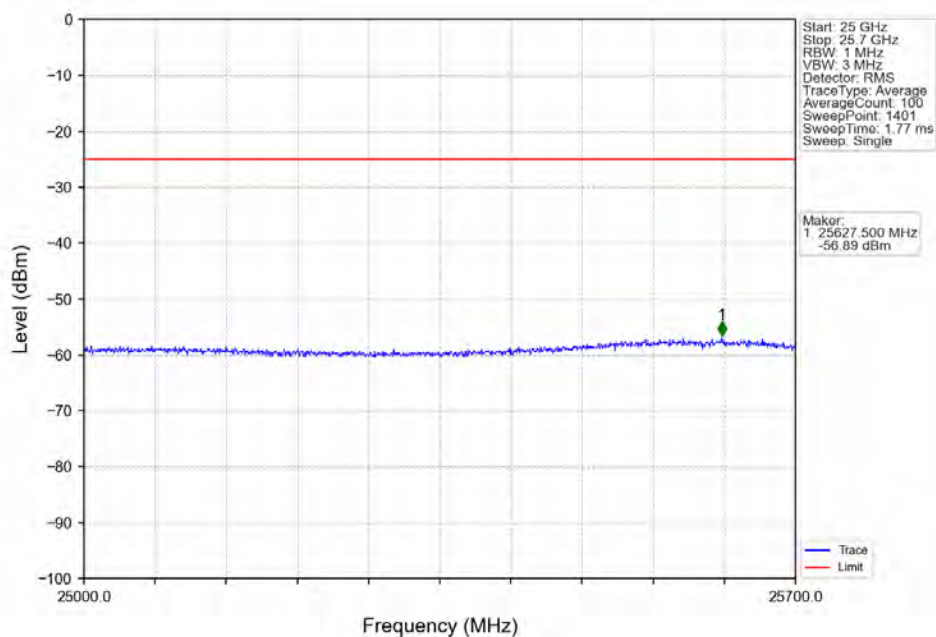
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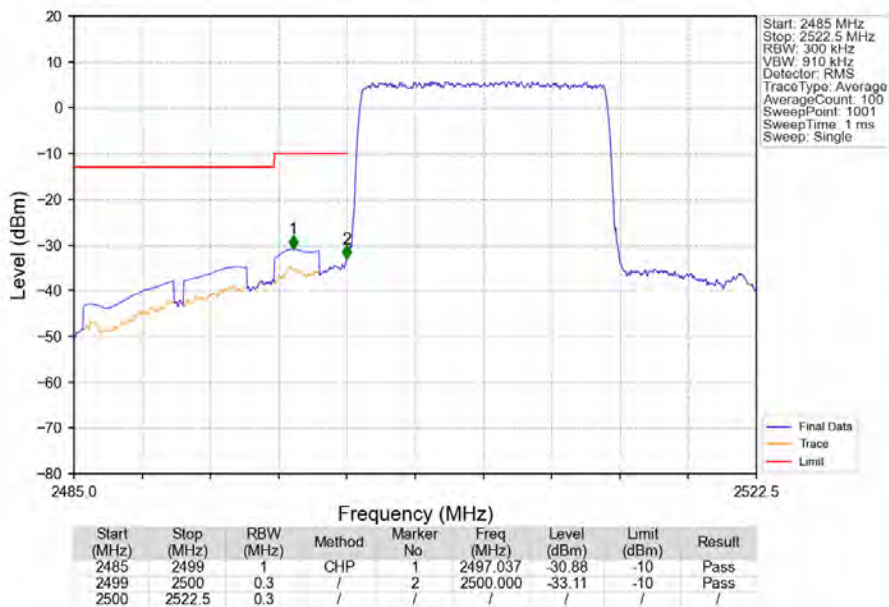
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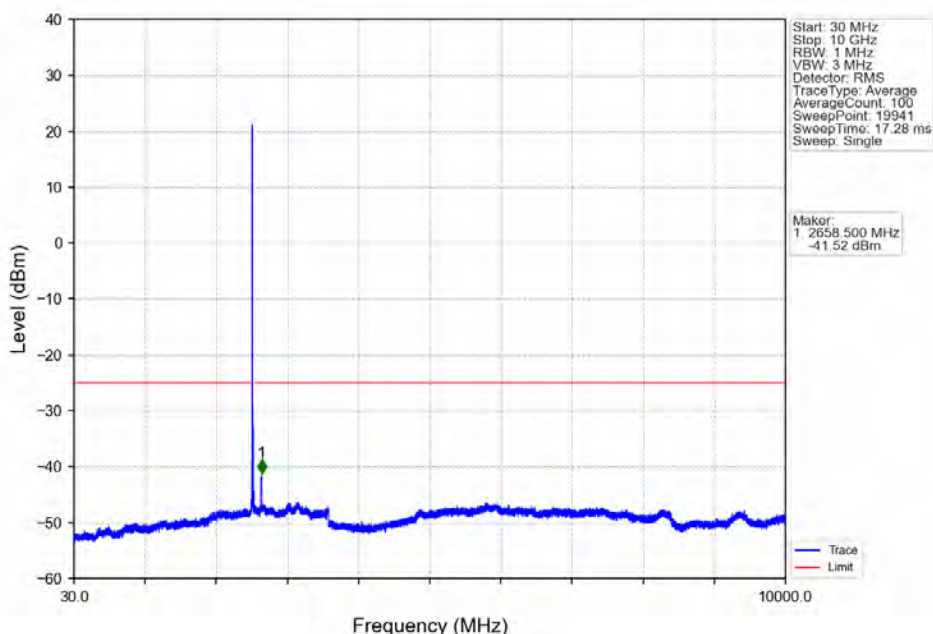
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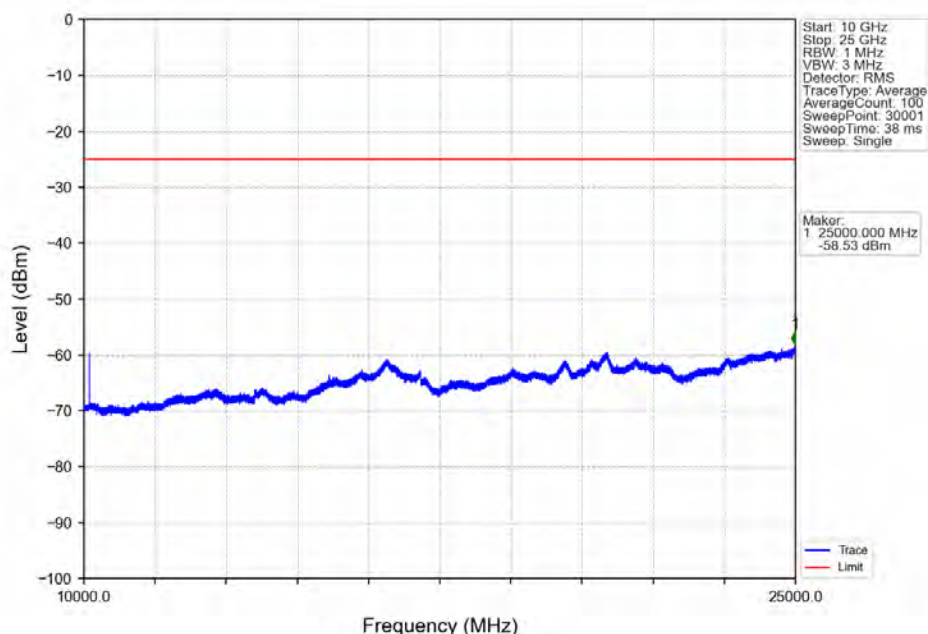
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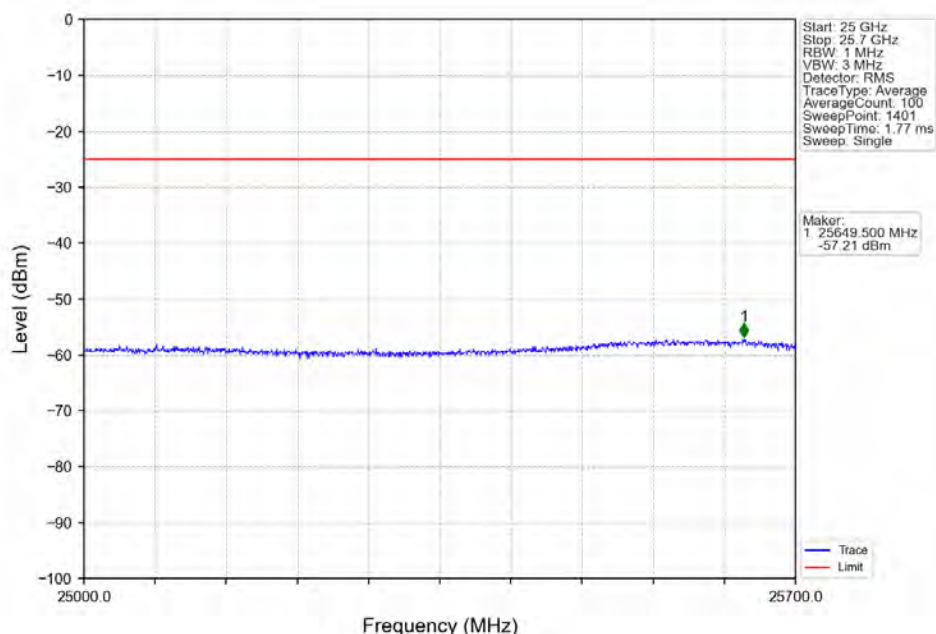
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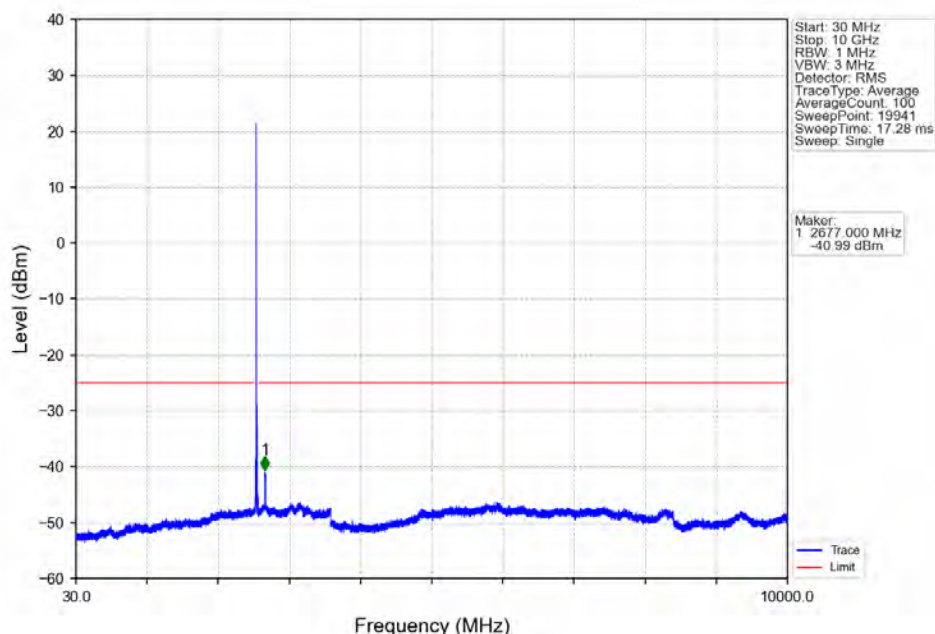
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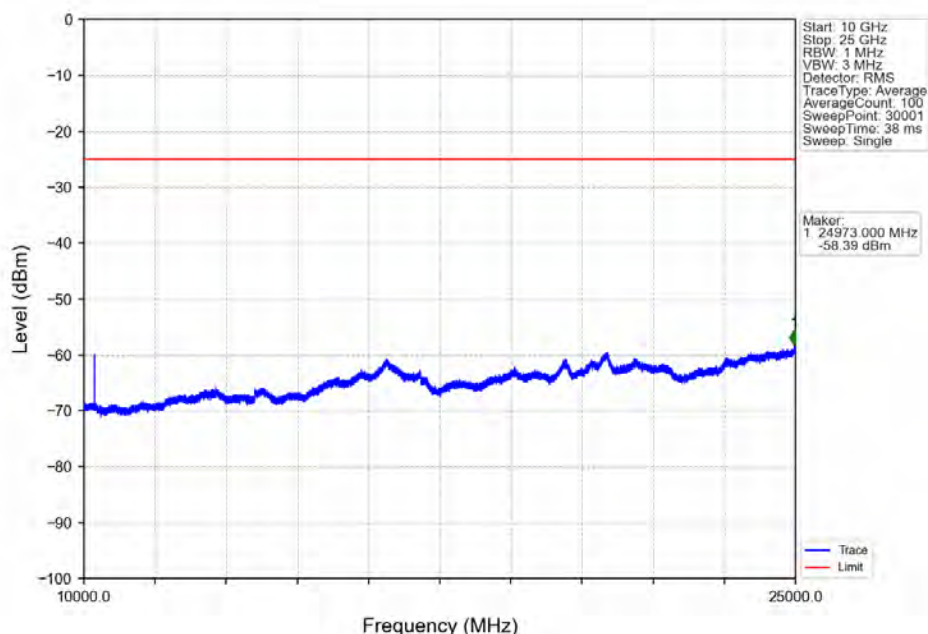
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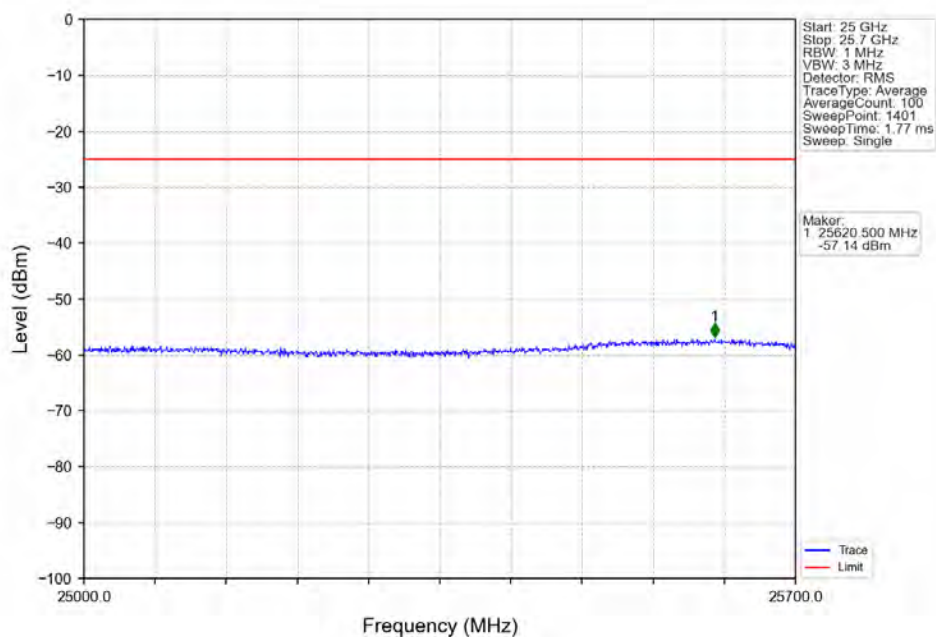
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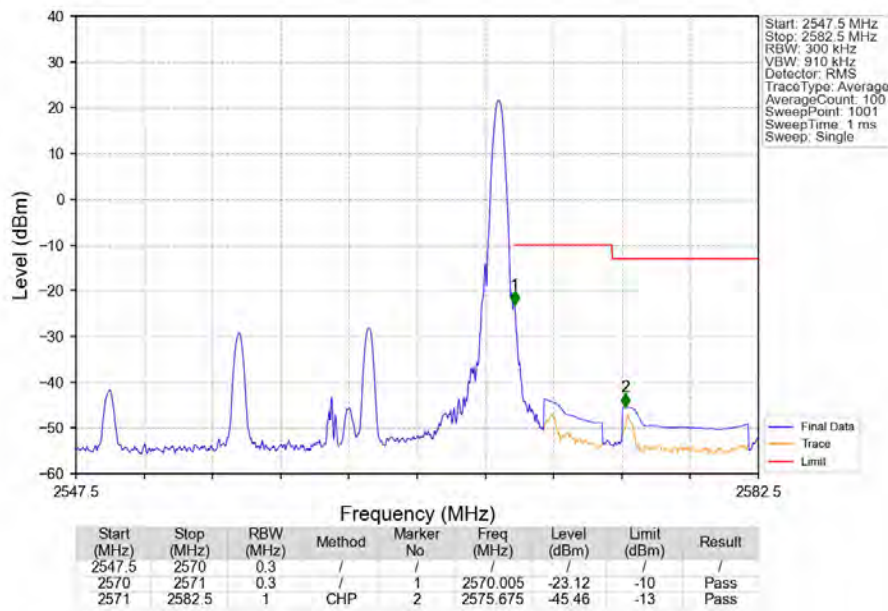
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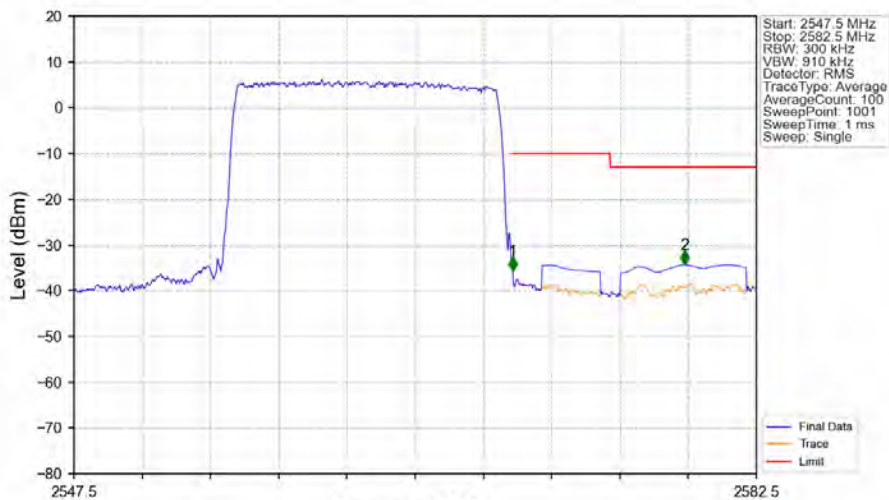
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2547.5	2570	0.3	/	1	2570.005	-35.72	-10	Pass
2570	2571	0.3	/	1	2570.005	-35.72	-10	Pass
2571	2582.5	1	CHP	2	2578.825	-34.37	-13	Pass



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5.4 B7_20MHz

5.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2510	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2535	1	0	Refer To Test Graph	Pass
	2560	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



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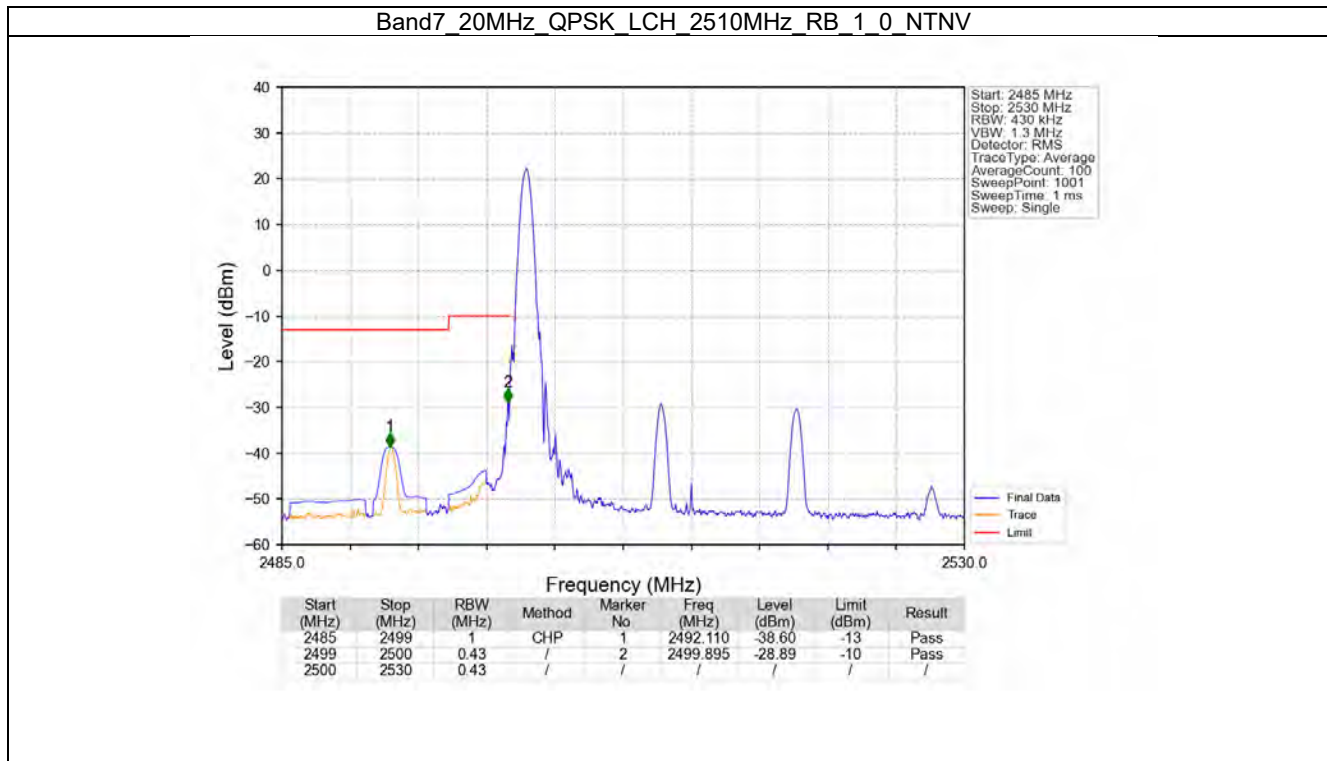
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5.4.2 Test Graph



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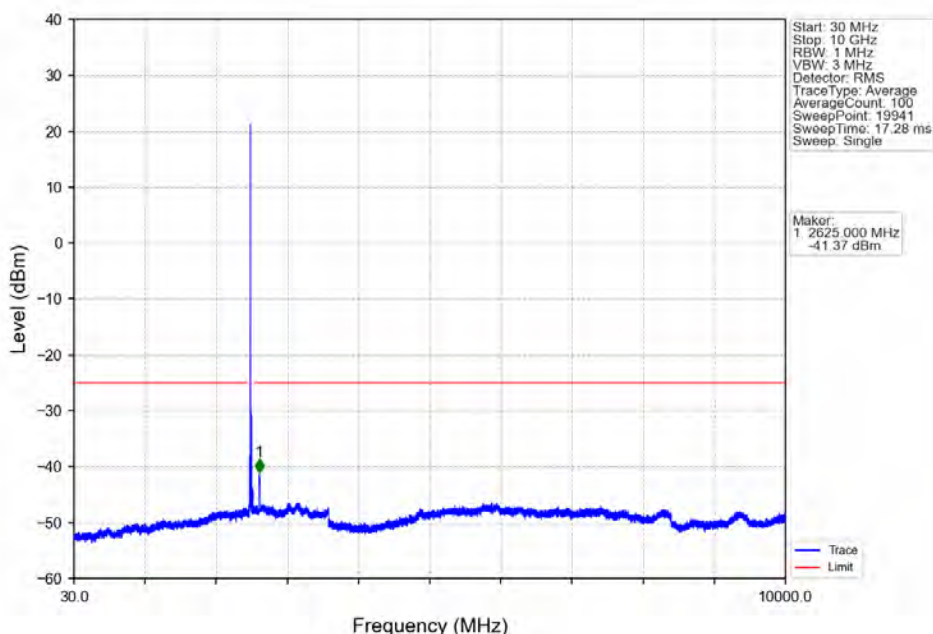
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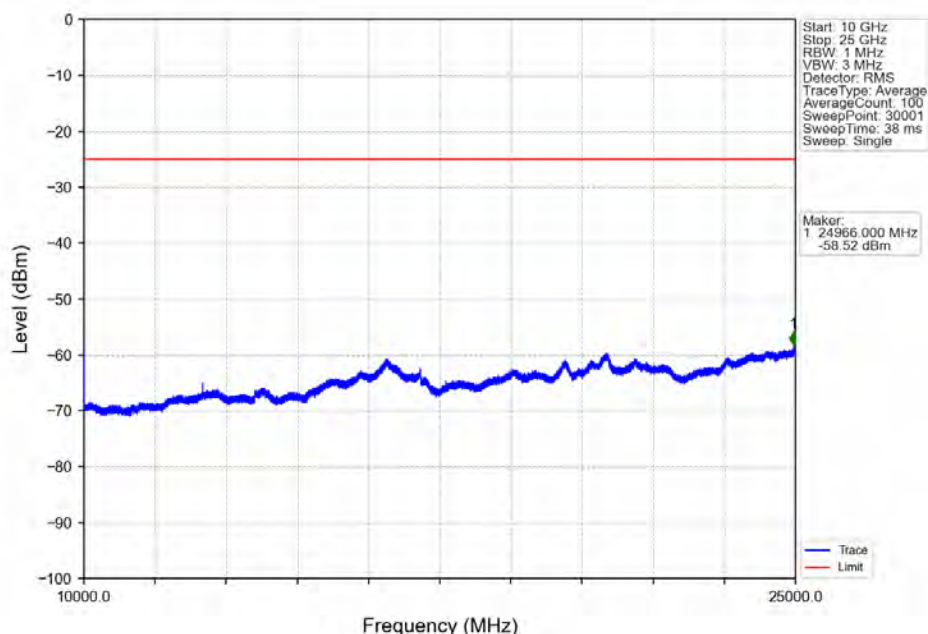
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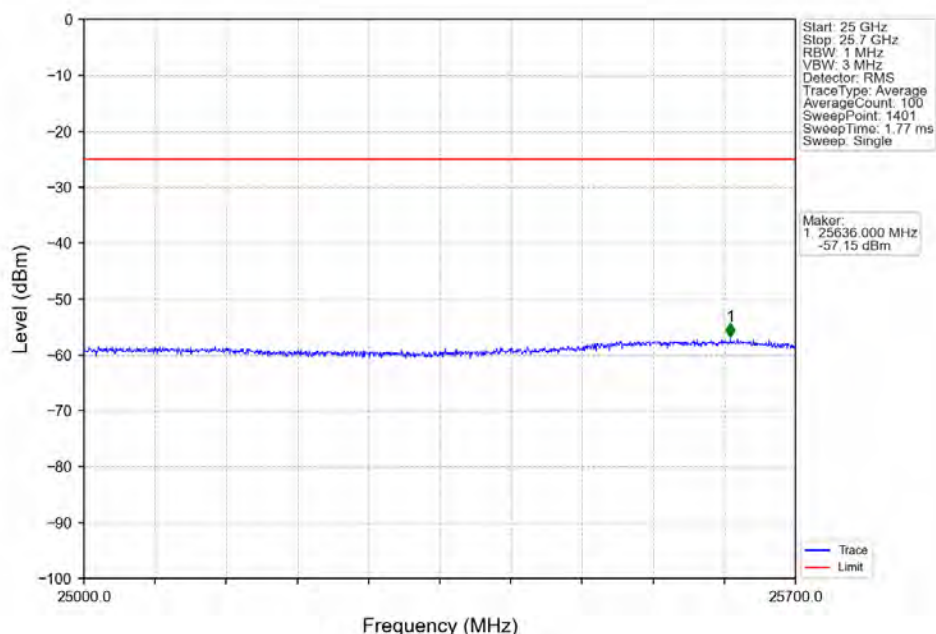
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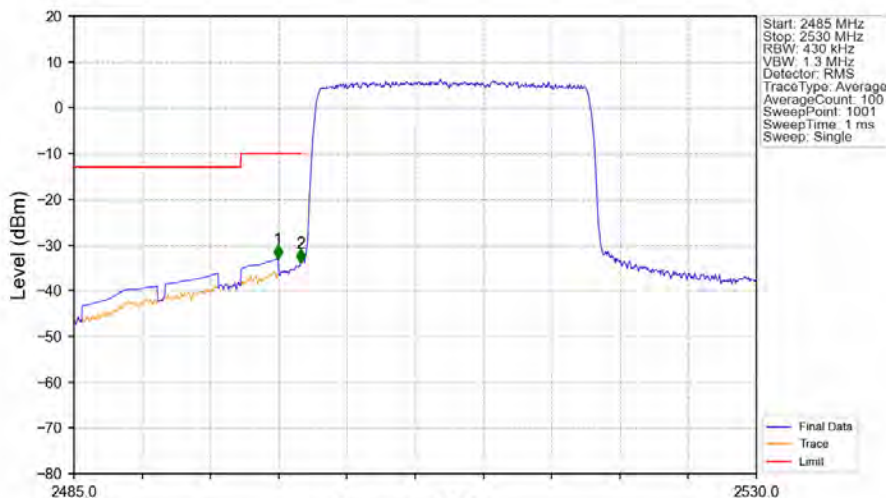
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	0.43	CHP	1	2488.455	-33.10	-10	Pass
2499	2500	0.43	/	2	2499.940	-34.01	-10	Pass
2500	2530	0.43	/	/	/	/	/	/



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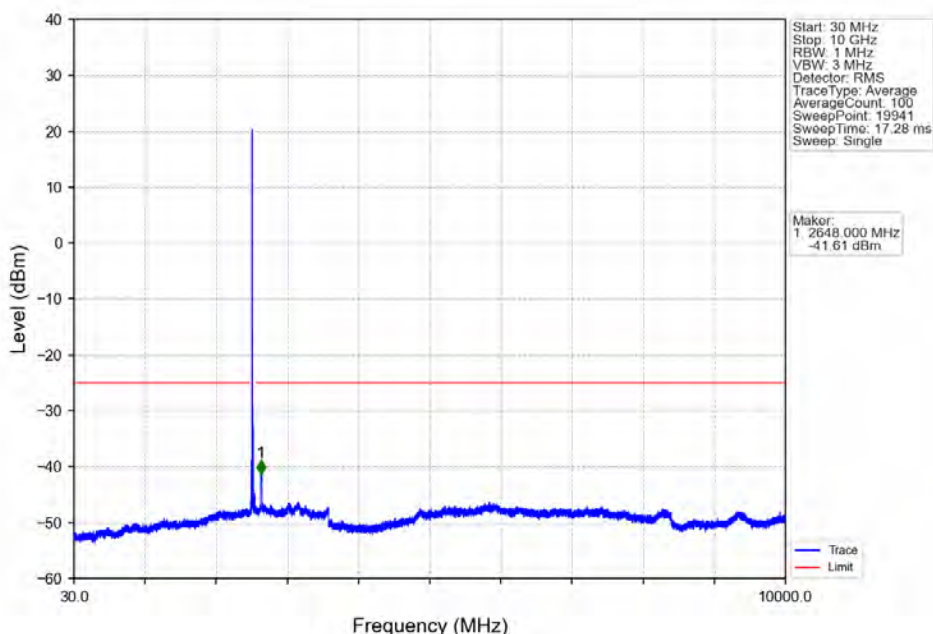
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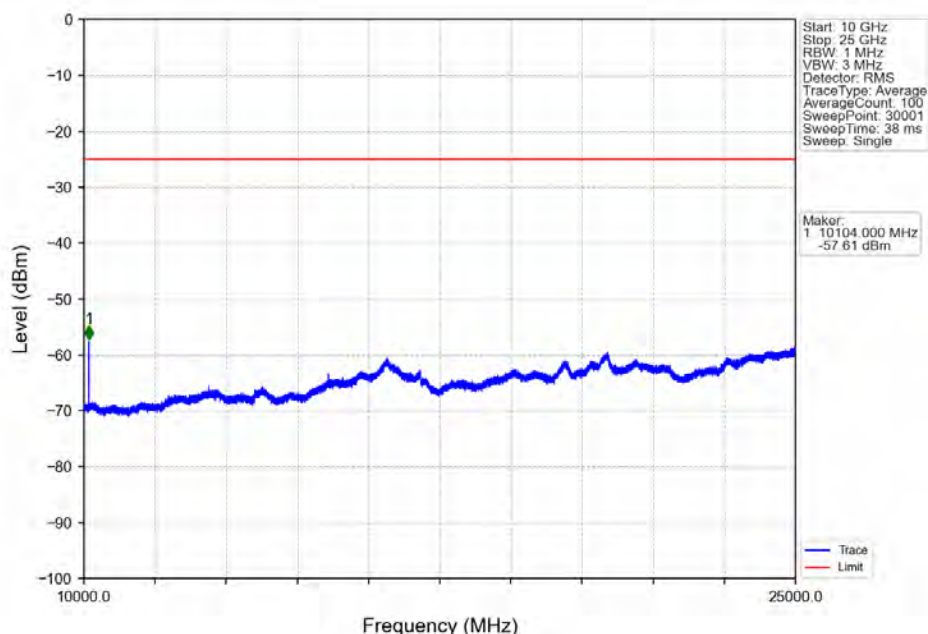
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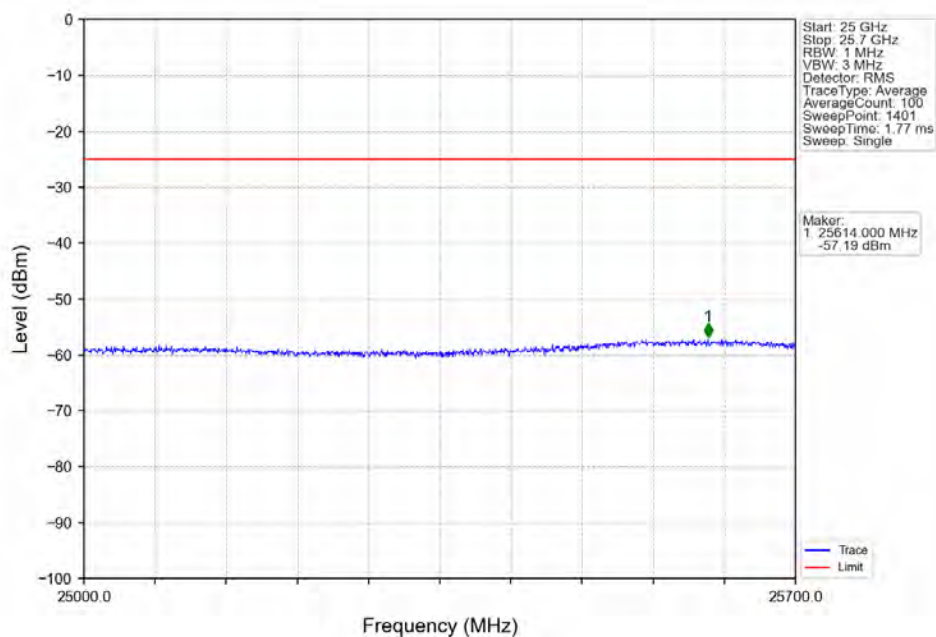
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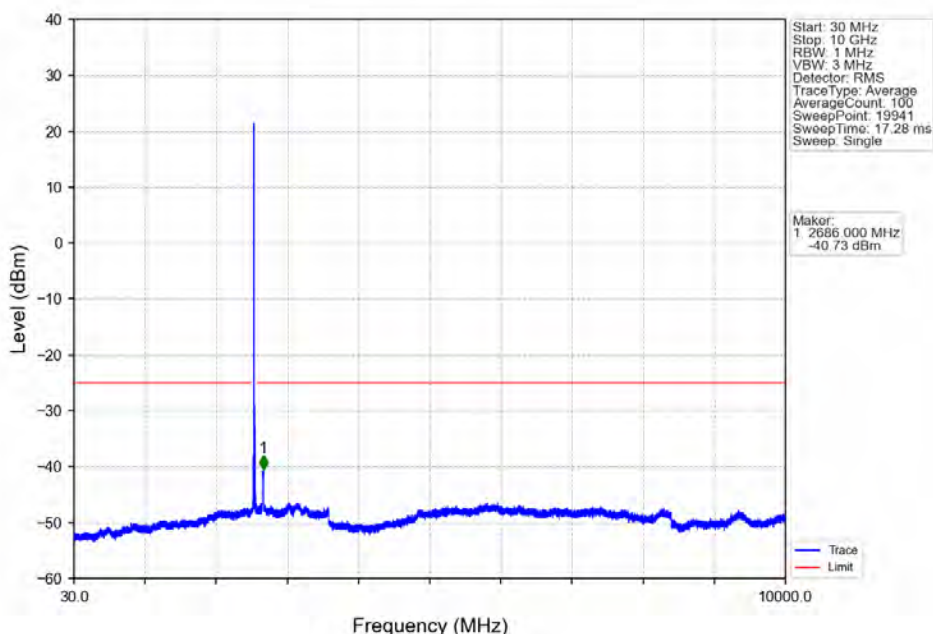
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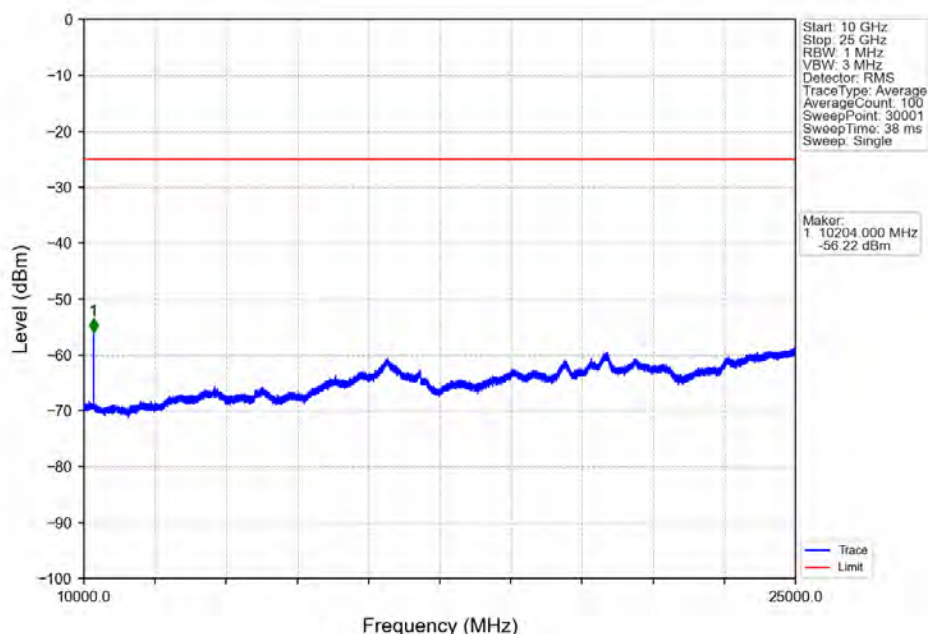
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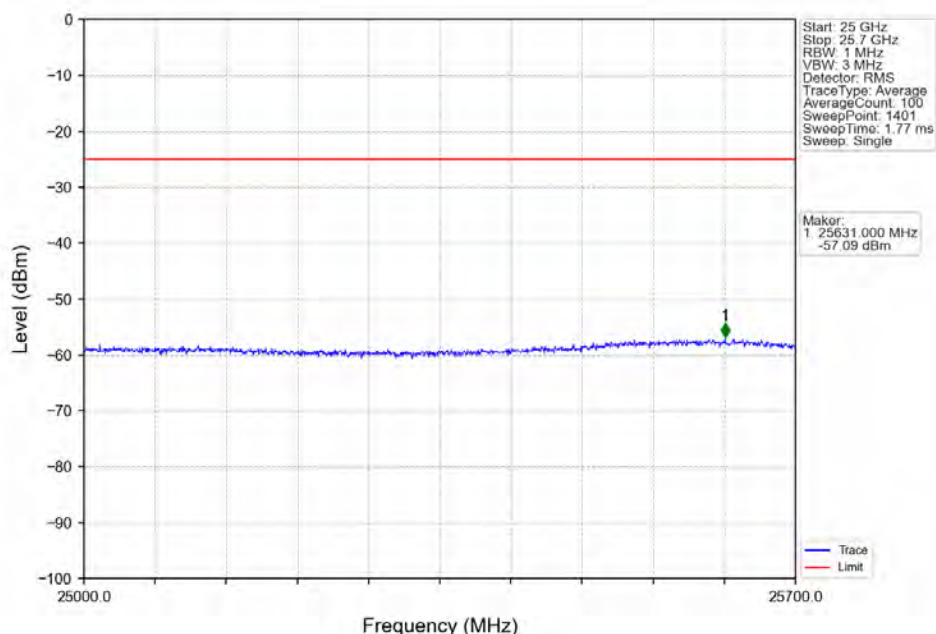
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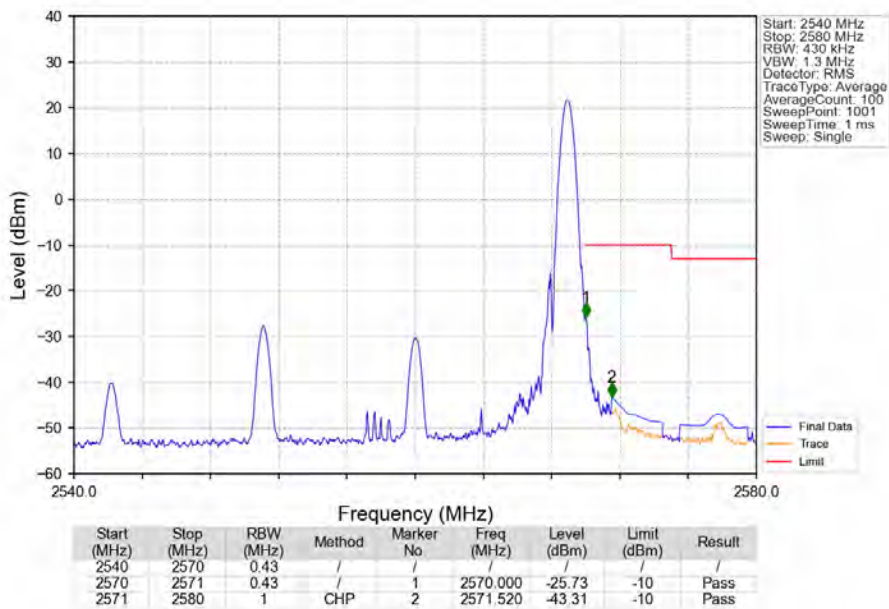
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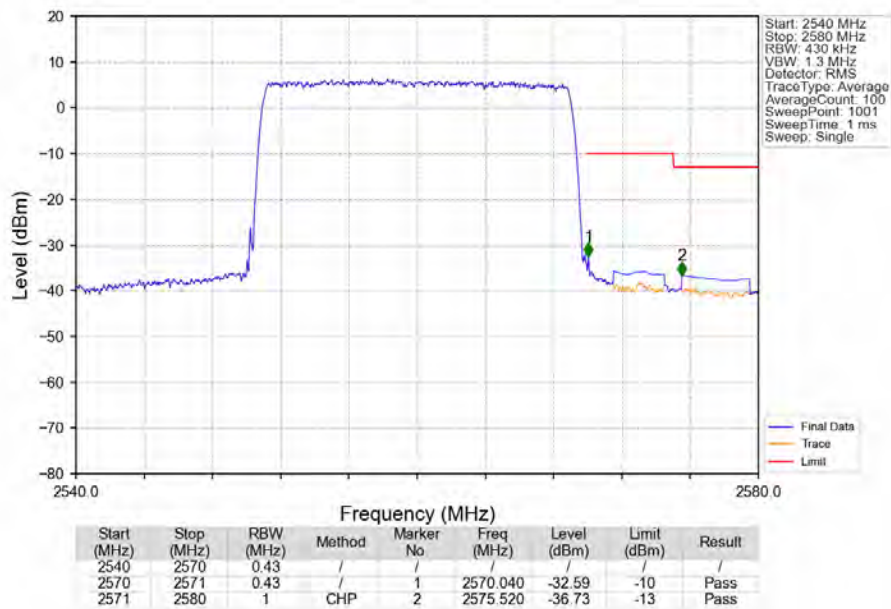
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Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



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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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6. Field Strength of Spurious Radiation

Test Band = LTE Band 7_ 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	5002.18	35.75	-41.47	33.20	-67.78	-25.00	42.78	Horizontal
2	7503.27	33.39	-37.78	36.60	-63.04	-25.00	38.04	Horizontal
3	10004.36	39.45	-32.40	37.90	-50.31	-25.00	25.31	Horizontal
4	12505.45	29.85	-29.90	39.01	-56.30	-25.00	31.30	Horizontal
5	15006.54	29.68	-28.27	40.09	-53.76	-25.00	28.76	Horizontal
6	17507.63	27.03	-24.37	40.12	-52.49	-25.00	27.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.18	35.59	-41.47	33.20	-67.94	-25.00	42.94	Vertical
2	7503.27	33.26	-37.78	36.60	-63.17	-25.00	38.17	Vertical
3	10004.36	31.55	-32.40	37.90	-58.21	-25.00	33.21	Vertical
4	12505.45	29.66	-29.90	39.01	-56.49	-25.00	31.49	Vertical
5	15006.54	29.50	-28.27	40.09	-53.94	-25.00	28.94	Vertical
6	17507.63	27.17	-24.37	40.12	-52.35	-25.00	27.35	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 7_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	5052.18	37.19	-41.37	33.19	-66.25	-25.00	41.25	Horizontal
2	7578.27	34.19	-37.73	36.68	-62.12	-25.00	37.12	Horizontal
3	10104.36	33.90	-32.20	37.95	-55.61	-25.00	30.61	Horizontal
4	12630.45	28.88	-29.59	39.16	-56.81	-25.00	31.81	Horizontal
5	15156.54	29.08	-28.08	39.80	-54.46	-25.00	29.46	Horizontal
6	17682.63	27.92	-24.36	40.54	-51.16	-25.00	26.16	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5052.18	35.21	-41.37	33.19	-68.23	-25.00	43.23	Vertical
2	7578.27	33.30	-37.73	36.68	-63.01	-25.00	38.01	Vertical
3	10104.36	31.81	-32.20	37.95	-57.70	-25.00	32.70	Vertical
4	12630.45	29.29	-29.59	39.16	-56.40	-25.00	31.40	Vertical
5	15156.54	28.98	-28.08	39.80	-54.56	-25.00	29.56	Vertical
6	17682.63	28.21	-24.36	40.54	-50.87	-25.00	25.87	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 7_ 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	5102.18	36.76	-41.27	33.18	-66.59	-25.00	41.59	Horizontal
2	7653.27	33.53	-37.52	36.75	-62.49	-25.00	37.49	Horizontal
3	10204.36	34.61	-32.05	38.00	-54.70	-25.00	29.70	Horizontal
4	12755.45	29.96	-29.78	39.31	-55.78	-25.00	30.78	Horizontal
5	15306.54	29.24	-27.68	39.52	-54.19	-25.00	29.19	Horizontal
6	17857.63	28.74	-24.39	40.96	-49.95	-25.00	24.95	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5102.18	35.54	-41.27	33.18	-67.81	-25.00	42.81	Vertical
2	7653.27	33.30	-37.52	36.75	-62.72	-25.00	37.72	Vertical
3	10204.36	34.66	-32.05	38.00	-54.65	-25.00	29.65	Vertical
4	12755.45	30.35	-29.78	39.31	-55.39	-25.00	30.39	Vertical
5	15306.54	28.07	-27.68	39.52	-55.36	-25.00	30.36	Vertical
6	17857.63	28.07	-24.39	40.96	-50.62	-25.00	25.62	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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