



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZCR240200055101

Rev.: 01

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Appendix B.12

LTE Band 30



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Shenzhen Branch Inspection & Testing Services
Wireless Laboratory

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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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1. Effective (Isotropic) Radiated Power Output Data

1.1 B30_5MHz_EIRP

1.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	21.86	0.22	22.08	<=23.98	Pass
			13	21.95	0.22	22.17	<=23.98	Pass
			24	21.82	0.22	22.04	<=23.98	Pass
		12	0	20.80	0.22	21.02	<=23.98	Pass
			6	20.85	0.22	21.07	<=23.98	Pass
			13	20.84	0.22	21.06	<=23.98	Pass
		25	0	20.83	0.22	21.05	<=23.98	Pass
	2310	1	0	22.84	0.22	23.06	<=23.98	Pass
			13	22.76	0.22	22.98	<=23.98	Pass
			24	22.64	0.22	22.86	<=23.98	Pass
		12	0	21.45	0.22	21.67	<=23.98	Pass
			6	21.43	0.22	21.65	<=23.98	Pass
			13	21.26	0.22	21.48	<=23.98	Pass
		25	0	21.26	0.22	21.48	<=23.98	Pass
	2312.5	1	0	22.37	0.22	22.59	<=23.98	Pass
			13	22.39	0.22	22.61	<=23.98	Pass
			24	22.28	0.22	22.50	<=23.98	Pass
		12	0	21.22	0.22	21.44	<=23.98	Pass
			6	21.25	0.22	21.47	<=23.98	Pass
			13	21.08	0.22	21.30	<=23.98	Pass
		25	0	21.20	0.22	21.42	<=23.98	Pass
16QAM	2307.5	1	0	20.94	0.22	21.16	<=23.98	Pass
			13	21.00	0.22	21.22	<=23.98	Pass
			24	20.88	0.22	21.10	<=23.98	Pass
		12	0	19.80	0.22	20.02	<=23.98	Pass
			6	19.83	0.22	20.05	<=23.98	Pass
			13	19.85	0.22	20.07	<=23.98	Pass
		25	0	19.88	0.22	20.10	<=23.98	Pass
	2310	1	0	21.44	0.22	21.66	<=23.98	Pass
			13	21.51	0.22	21.73	<=23.98	Pass
			24	21.54	0.22	21.76	<=23.98	Pass
		12	0	20.26	0.22	20.48	<=23.98	Pass
			6	20.27	0.22	20.49	<=23.98	Pass
			13	20.21	0.22	20.43	<=23.98	Pass
		25	0	20.14	0.22	20.36	<=23.98	Pass
	2312.5	1	0	21.31	0.22	21.53	<=23.98	Pass
			13	21.33	0.22	21.55	<=23.98	Pass



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64QAM		12	24	21.20	0.22	21.42	<=23.98	Pass
			0	20.23	0.22	20.45	<=23.98	Pass
			6	20.18	0.22	20.40	<=23.98	Pass
			13	20.07	0.22	20.29	<=23.98	Pass
		25	0	20.20	0.22	20.42	<=23.98	Pass
	2307.5	1	0	20.01	0.22	20.23	<=23.98	Pass
			13	20.18	0.22	20.40	<=23.98	Pass
			24	20.02	0.22	20.24	<=23.98	Pass
		12	0	19.58	0.22	19.80	<=23.98	Pass
			6	19.60	0.22	19.82	<=23.98	Pass
			13	19.58	0.22	19.80	<=23.98	Pass
		25	0	19.45	0.22	19.67	<=23.98	Pass
		2310	0	20.21	0.22	20.43	<=23.98	Pass
			13	20.36	0.22	20.58	<=23.98	Pass
			24	20.27	0.22	20.49	<=23.98	Pass
		12	0	19.13	0.22	19.35	<=23.98	Pass
			6	19.25	0.22	19.47	<=23.98	Pass
		25	13	19.21	0.22	19.43	<=23.98	Pass
			0	19.21	0.22	19.43	<=23.98	Pass
			0	20.43	0.22	20.65	<=23.98	Pass
	2312.5	1	13	20.39	0.22	20.61	<=23.98	Pass
			24	20.39	0.22	20.61	<=23.98	Pass
		12	0	19.72	0.22	19.94	<=23.98	Pass
			6	19.69	0.22	19.91	<=23.98	Pass
			13	19.49	0.22	19.71	<=23.98	Pass
		25	0	19.44	0.22	19.66	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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1.2 B30_5MHz_EIRP/5MHz

1.2.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	22.10	0.22	22.32	<=23.98	Pass
			13	22.18	0.22	22.40	<=23.98	Pass
			24	22.13	0.22	22.35	<=23.98	Pass
		12	0	20.84	0.22	21.06	<=23.98	Pass
			6	20.83	0.22	21.05	<=23.98	Pass
			13	20.84	0.22	21.06	<=23.98	Pass
		25	0	20.39	0.22	20.61	<=23.98	Pass
			0	22.83	0.22	23.05	<=23.98	Pass
			13	22.96	0.22	23.18	<=23.98	Pass
	2310	1	24	22.97	0.22	23.19	<=23.98	Pass
			0	21.58	0.22	21.80	<=23.98	Pass
			6	21.52	0.22	21.74	<=23.98	Pass
		12	13	21.46	0.22	21.68	<=23.98	Pass
			0	20.89	0.22	21.11	<=23.98	Pass
			0	22.80	0.22	23.02	<=23.98	Pass
			13	22.73	0.22	22.95	<=23.98	Pass
			24	22.75	0.22	22.97	<=23.98	Pass
	2312.5	12	0	21.33	0.22	21.55	<=23.98	Pass
			6	21.36	0.22	21.58	<=23.98	Pass
			13	21.26	0.22	21.48	<=23.98	Pass
		25	0	20.84	0.22	21.06	<=23.98	Pass
16QAM	2307.5	1	0	21.35	0.22	21.57	<=23.98	Pass
			13	21.39	0.22	21.61	<=23.98	Pass
			24	21.35	0.22	21.57	<=23.98	Pass
		12	0	19.91	0.22	20.13	<=23.98	Pass
			6	20.00	0.22	20.22	<=23.98	Pass
			13	19.93	0.22	20.15	<=23.98	Pass
		25	0	19.42	0.22	19.64	<=23.98	Pass
			0	21.91	0.22	22.13	<=23.98	Pass
			13	21.98	0.22	22.20	<=23.98	Pass
	2310	1	24	21.94	0.22	22.16	<=23.98	Pass
			0	20.41	0.22	20.63	<=23.98	Pass
			6	20.50	0.22	20.72	<=23.98	Pass
		12	13	20.47	0.22	20.69	<=23.98	Pass
			0	19.98	0.22	20.20	<=23.98	Pass
			0	21.84	0.22	22.06	<=23.98	Pass
			13	21.84	0.22	22.06	<=23.98	Pass
			24	21.93	0.22	22.15	<=23.98	Pass
	2312.5	12	0	20.43	0.22	20.65	<=23.98	Pass
			6	20.44	0.22	20.66	<=23.98	Pass



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			13	20.33	0.22	20.55	<=23.98	Pass	
		25	0	19.91	0.22	20.13	<=23.98	Pass	
64QAM	2307.5	1	0	20.46	0.22	20.68	<=23.98	Pass	
			13	20.46	0.22	20.68	<=23.98	Pass	
			24	20.38	0.22	20.60	<=23.98	Pass	
		12	0	18.88	0.22	19.10	<=23.98	Pass	
			6	19.74	0.22	19.96	<=23.98	Pass	
			13	19.75	0.22	19.97	<=23.98	Pass	
		25	0	19.12	0.22	19.34	<=23.98	Pass	
		2310	1	0	20.94	0.22	21.16	<=23.98	Pass
				13	20.90	0.22	21.12	<=23.98	Pass
	24			20.88	0.22	21.10	<=23.98	Pass	
	12		0	19.42	0.22	19.64	<=23.98	Pass	
			6	19.40	0.22	19.62	<=23.98	Pass	
			13	19.52	0.22	19.74	<=23.98	Pass	
	25		0	18.86	0.22	19.08	<=23.98	Pass	
	2312.5		1	0	20.71	0.22	20.93	<=23.98	Pass
				13	20.85	0.22	21.07	<=23.98	Pass
		24		20.85	0.22	21.07	<=23.98	Pass	
		12	0	19.43	0.22	19.65	<=23.98	Pass	
			6	19.94	0.22	20.16	<=23.98	Pass	
			13	19.67	0.22	19.89	<=23.98	Pass	
		25	0	19.17	0.22	19.39	<=23.98	Pass	
		Note1: EIRP/5MHz=Conducted Power+Antenna Gain							



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1.3 B30_10MHz_EIRP

1.3.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2310	1	0	22.97	0.22	23.19	<=23.98	Pass		
			25	22.55	0.22	22.77	<=23.98	Pass		
			49	22.27	0.22	22.49	<=23.98	Pass		
		25	0	21.23	0.22	21.45	<=23.98	Pass		
			13	21.16	0.22	21.38	<=23.98	Pass		
			25	21.06	0.22	21.28	<=23.98	Pass		
		50	0	21.24	0.22	21.46	<=23.98	Pass		
		16QAM	2310	1	0	21.22	0.22	21.44	<=23.98	Pass
					25	21.11	0.22	21.33	<=23.98	Pass
49	20.98				0.22	21.20	<=23.98	Pass		
25	0			19.95	0.22	20.17	<=23.98	Pass		
	13			20.00	0.22	20.22	<=23.98	Pass		
	25			19.87	0.22	20.09	<=23.98	Pass		
50	0			20.06	0.22	20.28	<=23.98	Pass		
64QAM	2310			1	0	20.51	0.22	20.73	<=23.98	Pass
					25	20.28	0.22	20.50	<=23.98	Pass
		49	20.09		0.22	20.31	<=23.98	Pass		
		25	0	19.59	0.22	19.81	<=23.98	Pass		
			13	19.77	0.22	19.99	<=23.98	Pass		
			25	19.69	0.22	19.91	<=23.98	Pass		
		50	0	19.76	0.22	19.98	<=23.98	Pass		
Note1: EIRP=Conducted Power+Antenna Gain										

Note1: EIRP=Conducted Power+Antenna Gain



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1.4 B30_10MHz_EIRP/5MHz

1.4.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.86	0.22	23.08	<=23.98	Pass
			25	22.77	0.22	22.99	<=23.98	Pass
			49	22.47	0.22	22.69	<=23.98	Pass
		25	0	20.70	0.22	20.92	<=23.98	Pass
			13	20.70	0.22	20.92	<=23.98	Pass
			25	20.63	0.22	20.85	<=23.98	Pass
		50	0	18.98	0.22	19.20	<=23.98	Pass
16QAM	2310	1	0	21.59	0.22	21.81	<=23.98	Pass
			25	21.40	0.22	21.62	<=23.98	Pass
			49	21.37	0.22	21.59	<=23.98	Pass
		25	0	19.56	0.22	19.78	<=23.98	Pass
			13	19.57	0.22	19.79	<=23.98	Pass
			25	19.53	0.22	19.75	<=23.98	Pass
		50	0	17.87	0.22	18.09	<=23.98	Pass
64QAM	2310	1	0	20.41	0.22	20.63	<=23.98	Pass
			25	20.74	0.22	20.96	<=23.98	Pass
			49	20.59	0.22	20.81	<=23.98	Pass
		25	0	18.59	0.22	18.81	<=23.98	Pass
			13	19.45	0.22	19.67	<=23.98	Pass
			25	19.24	0.22	19.46	<=23.98	Pass
		50	0	17.48	0.22	17.70	<=23.98	Pass

Note1: EIRP/5MHz=Conducted Power+Antenna Gain



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2. Frequency Stability

2.1 B30_5MHz

2.1.1 Test Result

Band: 30 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2307.5	25	0	20	3.3	1.285	0.0006	/	Pass
					3.8	0.561	0.0002	/	Pass
					4.3	1.025	0.0004	/	Pass
				-30	3.8	0.912	0.0004	/	Pass
				-20	3.8	1.279	0.0006	/	Pass
				-10	3.8	1.252	0.0005	/	Pass
				0	3.8	0.954	0.0004	/	Pass
				10	3.8	1.022	0.0004	/	Pass
				30	3.8	0.441	0.0002	/	Pass
				40	3.8	2.010	0.0009	/	Pass
				50	3.8	1.071	0.0005	/	Pass
	2310	25	0	20	3.3	0.825	0.0004	/	Pass
					3.8	0.619	0.0003	/	Pass
					4.3	-0.070	0.0000	/	Pass
				-30	3.8	0.722	0.0003	/	Pass
				-20	3.8	0.735	0.0003	/	Pass
				-10	3.8	0.868	0.0004	/	Pass
				0	3.8	-0.023	0.0000	/	Pass
				10	3.8	0.927	0.0004	/	Pass
				30	3.8	1.541	0.0007	/	Pass
				40	3.8	2.026	0.0009	/	Pass
				50	3.8	1.179	0.0005	/	Pass
	2312.5	25	0	20	3.3	-1.371	-0.0006	/	Pass
					3.8	-1.658	-0.0007	/	Pass
					4.3	-2.614	-0.0011	/	Pass
				-30	3.8	-2.112	-0.0009	/	Pass
				-20	3.8	-3.366	-0.0015	/	Pass
				-10	3.8	-2.784	-0.0012	/	Pass
				0	3.8	-2.045	-0.0009	/	Pass
				10	3.8	-1.877	-0.0008	/	Pass
				30	3.8	-2.457	-0.0011	/	Pass
				40	3.8	-2.203	-0.0010	/	Pass
				50	3.8	-1.744	-0.0008	/	Pass
16QAM	2307.5	25	0	20	3.3	0.823	0.0004	/	Pass
					3.8	1.071	0.0005	/	Pass
					4.3	0.466	0.0002	/	Pass
				-30	3.8	1.707	0.0007	/	Pass



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				-20	3.8	0.758	0.0003	/	Pass
				-10	3.8	0.708	0.0003	/	Pass
				0	3.8	0.241	0.0001	/	Pass
				10	3.8	1.021	0.0004	/	Pass
				30	3.8	0.438	0.0002	/	Pass
				40	3.8	0.992	0.0004	/	Pass
				50	3.8	1.689	0.0007	/	Pass
	2310	25	0	20	3.3	1.325	0.0006	/	Pass
					3.8	0.209	0.0001	/	Pass
					4.3	0.969	0.0004	/	Pass
				-30	3.8	0.106	0.0000	/	Pass
				-20	3.8	1.106	0.0005	/	Pass
				-10	3.8	1.116	0.0005	/	Pass
				0	3.8	0.494	0.0002	/	Pass
				10	3.8	1.553	0.0007	/	Pass
				30	3.8	0.671	0.0003	/	Pass
				40	3.8	0.505	0.0002	/	Pass
				50	3.8	-0.269	-0.0001	/	Pass
	2312.5	25	0	20	3.3	-2.499	-0.0011	/	Pass
					3.8	-1.920	-0.0008	/	Pass
					4.3	-1.690	-0.0007	/	Pass
				-30	3.8	-2.775	-0.0012	/	Pass
				-20	3.8	-1.841	-0.0008	/	Pass
				-10	3.8	-2.321	-0.0010	/	Pass
				0	3.8	-2.922	-0.0013	/	Pass
				10	3.8	-2.567	-0.0011	/	Pass
				30	3.8	-3.218	-0.0014	/	Pass
				40	3.8	-3.253	-0.0014	/	Pass
				50	3.8	-2.364	-0.0010	/	Pass
64QAM	2307.5	25	0	20	3.3	0.834	0.0004	/	Pass
					3.8	1.023	0.0004	/	Pass
					4.3	2.012	0.0009	/	Pass
				-30	3.8	2.084	0.0009	/	Pass
				-20	3.8	0.165	0.0001	/	Pass
				-10	3.8	1.214	0.0005	/	Pass
				0	3.8	1.803	0.0008	/	Pass
				10	3.8	0.947	0.0004	/	Pass
				30	3.8	1.594	0.0007	/	Pass
				40	3.8	2.454	0.0011	/	Pass
				50	3.8	1.179	0.0005	/	Pass
	2310	25	0	20	3.3	0.331	0.0001	/	Pass
					3.8	-0.453	-0.0002	/	Pass
					4.3	0.205	0.0001	/	Pass
				-30	3.8	0.064	0.0000	/	Pass
				-20	3.8	-0.295	-0.0001	/	Pass
				-10	3.8	-1.079	-0.0005	/	Pass
				0	3.8	0.643	0.0003	/	Pass
				10	3.8	-0.006	0.0000	/	Pass



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	2312.5	25	0	30	3.8	1.280	0.0006	/	Pass
				40	3.8	-0.497	-0.0002	/	Pass
				50	3.8	0.405	0.0002	/	Pass
				20	3.3	-1.661	-0.0007	/	Pass
					3.8	-1.496	-0.0006	/	Pass
					4.3	-2.735	-0.0012	/	Pass
				-30	3.8	-2.444	-0.0011	/	Pass
				-20	3.8	-3.316	-0.0014	/	Pass
				-10	3.8	-1.932	-0.0008	/	Pass
				0	3.8	-1.022	-0.0004	/	Pass
				10	3.8	-2.365	-0.0010	/	Pass
				30	3.8	-2.841	-0.0012	/	Pass
				40	3.8	-1.280	-0.0006	/	Pass
				50	3.8	-0.873	-0.0004	/	Pass



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2.2 B30_10MHz

2.2.1 Test Result

Band: 30 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	3.3	-1.321	-0.0006	/	Pass
					3.8	-2.004	-0.0009	/	Pass
					4.3	-0.473	-0.0002	/	Pass
				-30	3.8	-0.674	-0.0003	/	Pass
				-20	3.8	-0.993	-0.0004	/	Pass
				-10	3.8	0.311	0.0001	/	Pass
				0	3.8	-1.425	-0.0006	/	Pass
				10	3.8	-0.288	-0.0001	/	Pass
				30	3.8	0.103	0.0000	/	Pass
				40	3.8	-1.725	-0.0007	/	Pass
16QAM	2310	50	0	20	3.3	0.071	0.0000	/	Pass
					3.8	-0.212	-0.0001	/	Pass
					4.3	-1.188	-0.0005	/	Pass
				-30	3.8	-1.965	-0.0009	/	Pass
				-20	3.8	-1.581	-0.0007	/	Pass
				-10	3.8	-1.264	-0.0005	/	Pass
				0	3.8	-0.255	-0.0001	/	Pass
				10	3.8	-1.055	-0.0005	/	Pass
				30	3.8	-0.023	0.0000	/	Pass
				40	3.8	-0.130	-0.0001	/	Pass
64QAM	2310	50	0	20	3.3	-0.588	-0.0003	/	Pass
					3.8	-1.260	-0.0005	/	Pass
					4.3	0.744	0.0003	/	Pass
				-30	3.8	-0.890	-0.0004	/	Pass
				-20	3.8	-0.459	-0.0002	/	Pass
				-10	3.8	-1.905	-0.0008	/	Pass
				0	3.8	-0.550	-0.0002	/	Pass
				10	3.8	-2.248	-0.0010	/	Pass
				30	3.8	-1.234	-0.0005	/	Pass
				40	3.8	-1.206	-0.0005	/	Pass
64QAM	2310	50	0	50	3.8	-1.832	-0.0008	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band30_OBW

3.1.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.570	/	Pass
		2310	25	0	4.572	/	Pass
		2312.5	25	0	4.586	/	Pass
	16QAM	2307.5	25	0	4.566	/	Pass
		2310	25	0	4.576	/	Pass
		2312.5	25	0	4.613	/	Pass
	64QAM	2307.5	25	0	4.562	/	Pass
		2310	25	0	4.582	/	Pass
		2312.5	25	0	4.552	/	Pass
10	QPSK	2310	50	0	9.058	/	Pass
	16QAM	2310	50	0	9.104	/	Pass
	64QAM	2310	50	0	9.065	/	Pass



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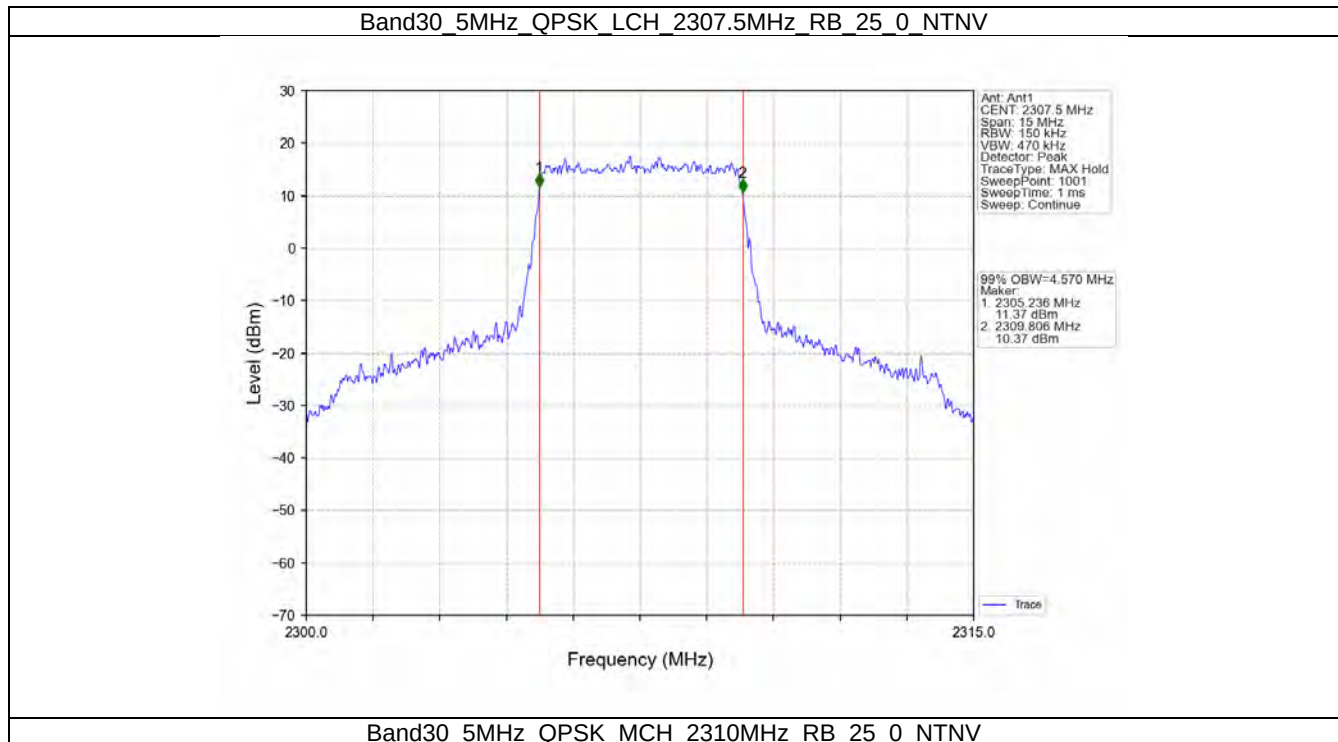
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3.1.2 Test Graph



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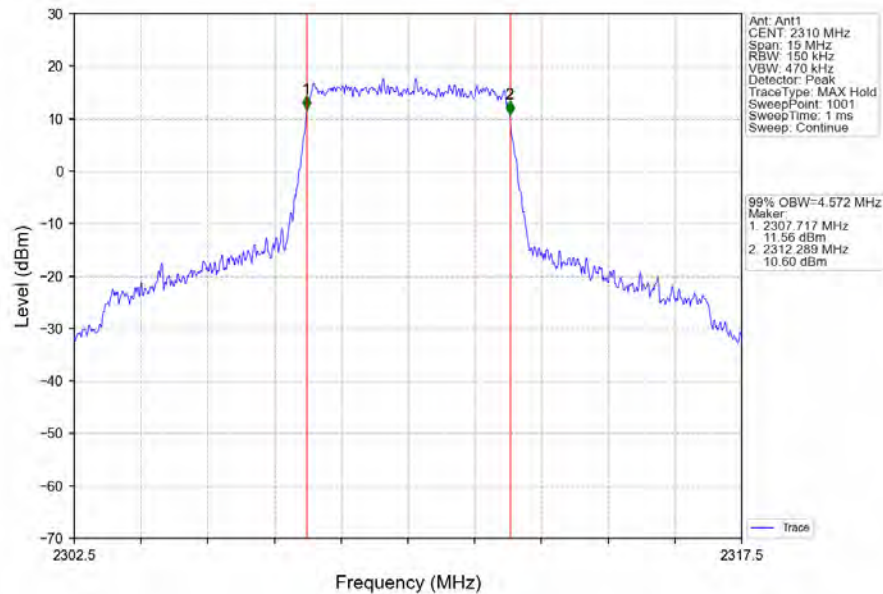


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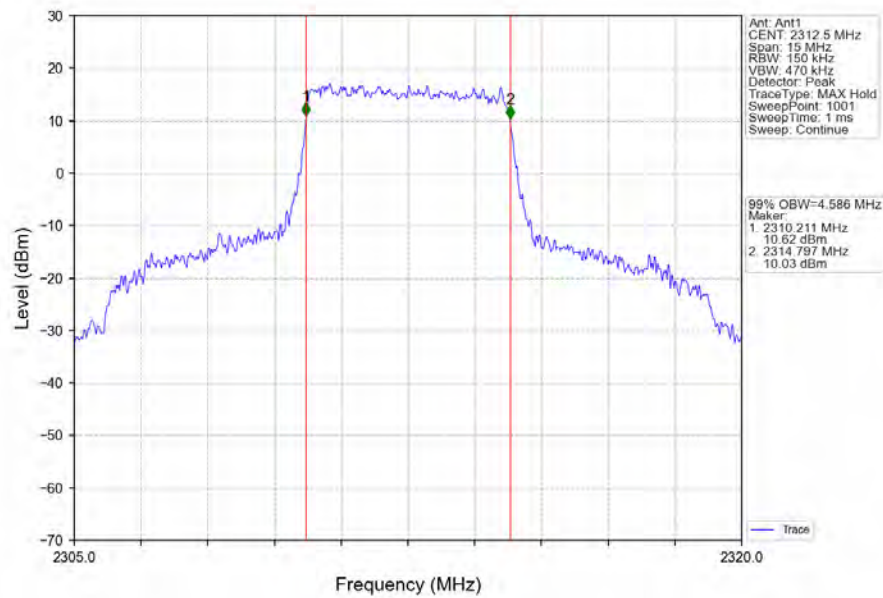
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Band30 5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band30 5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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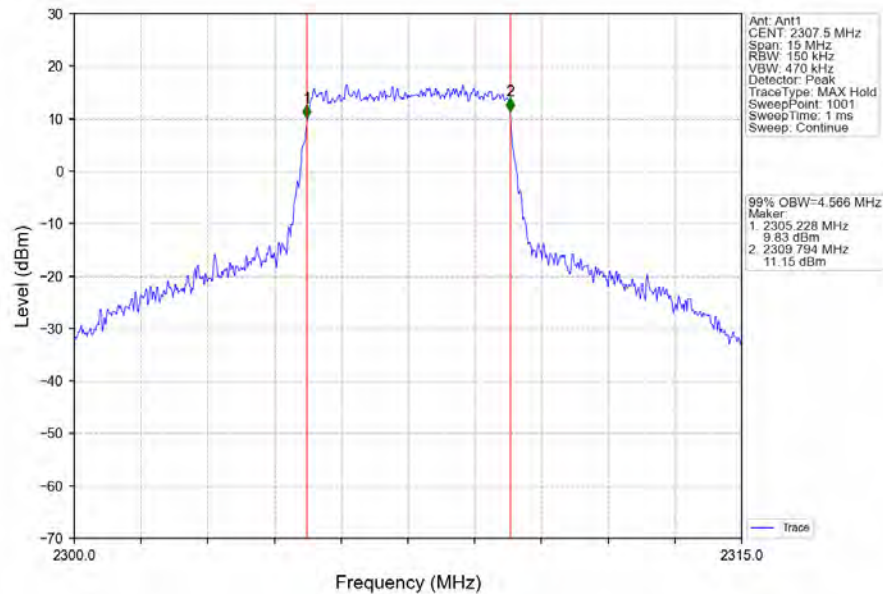


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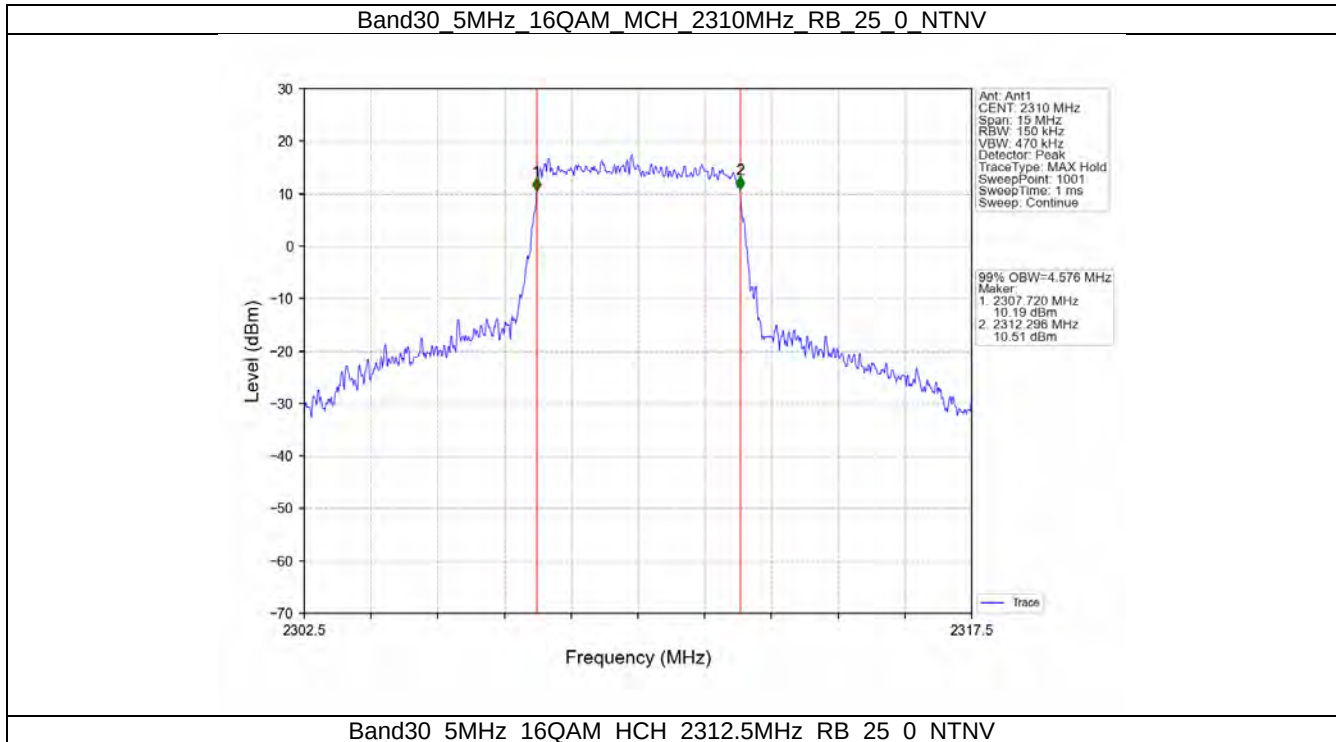


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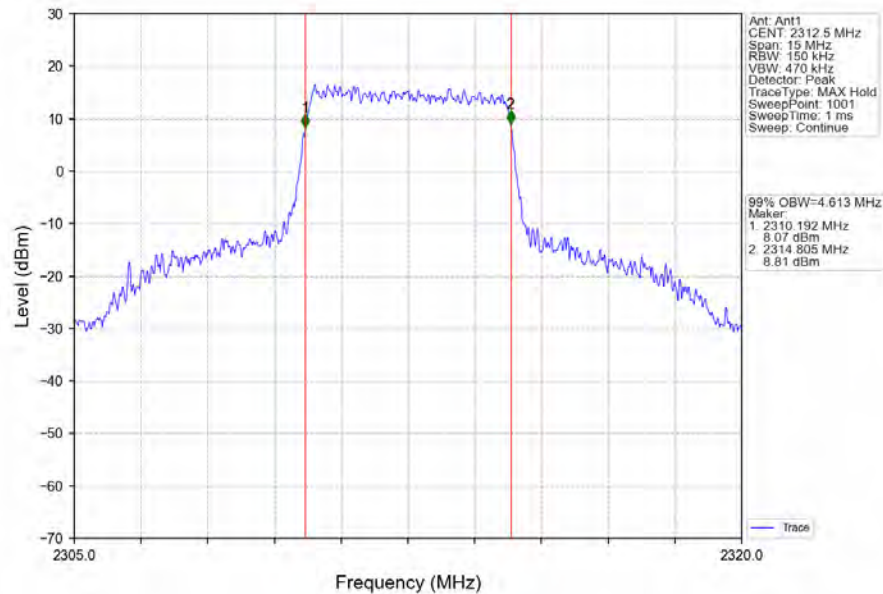


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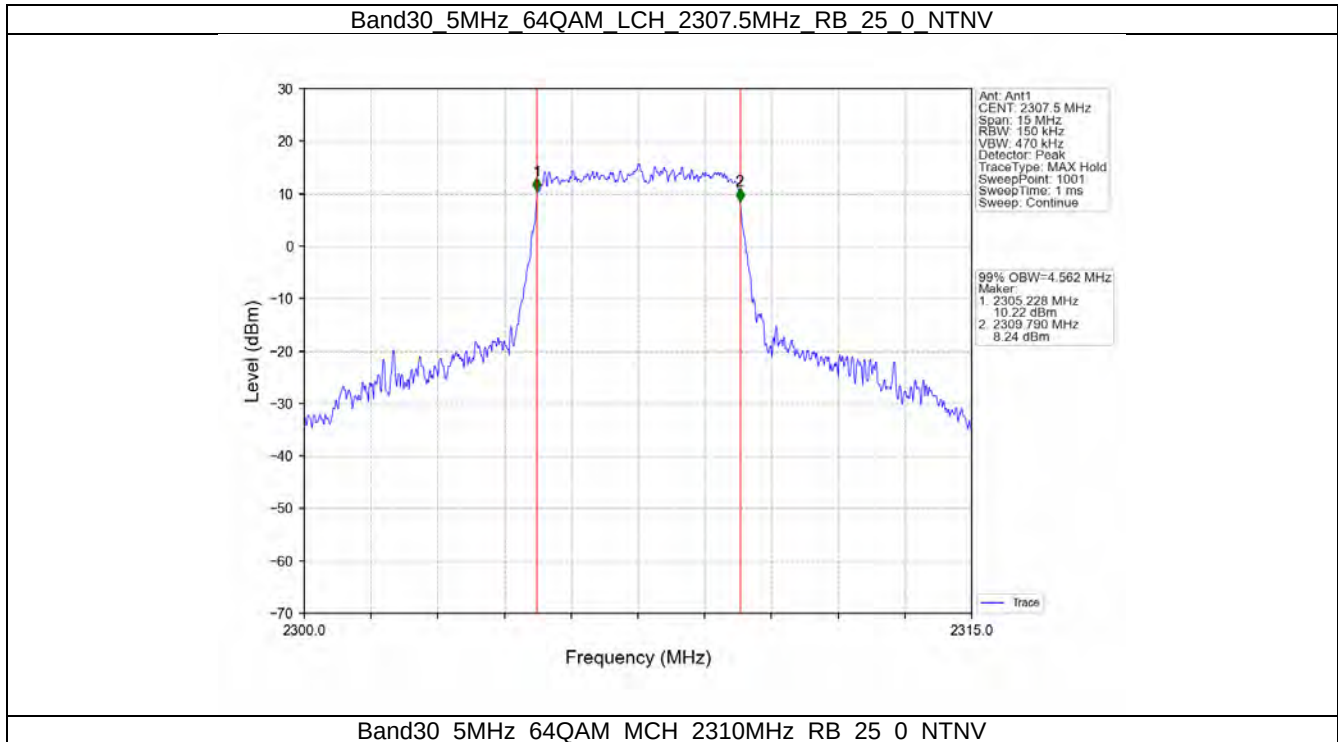


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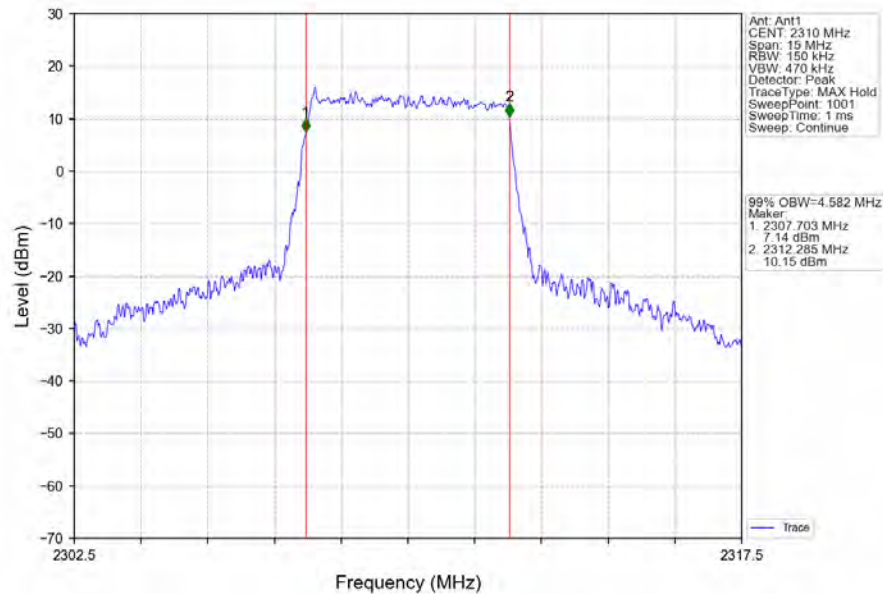


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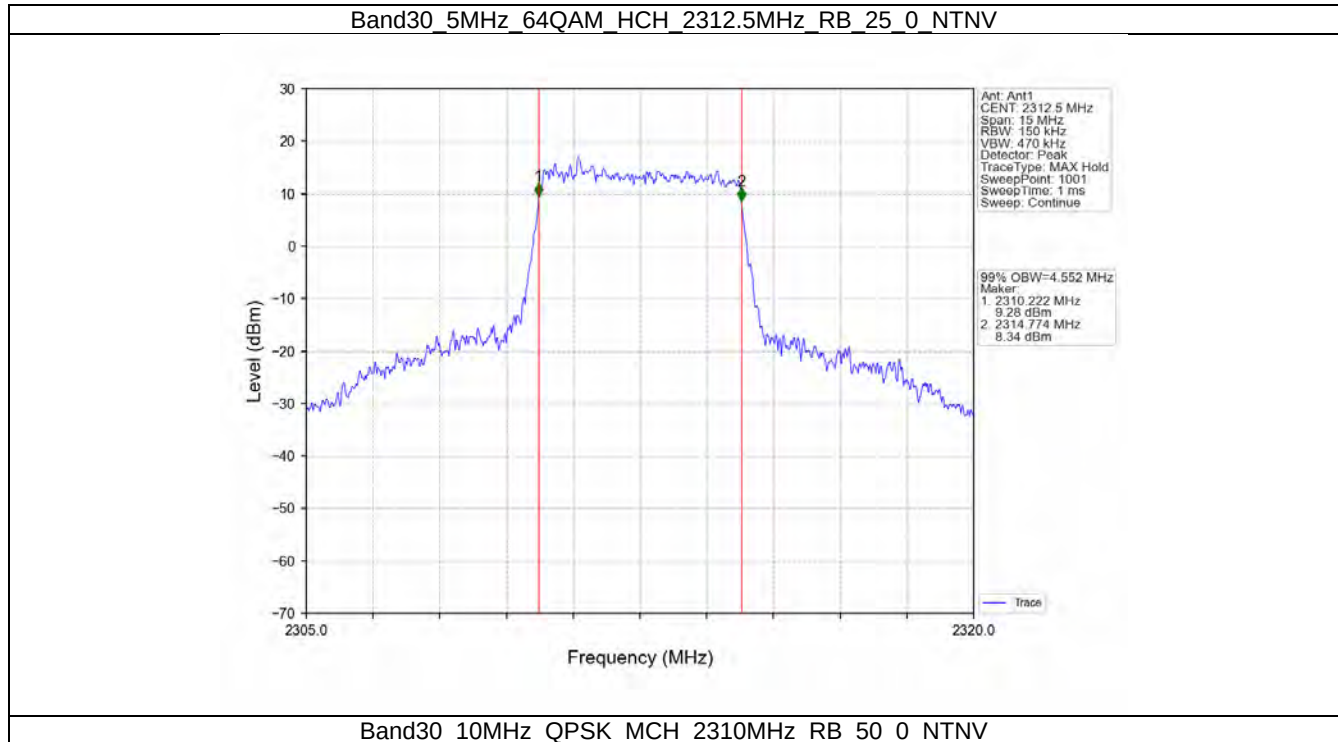


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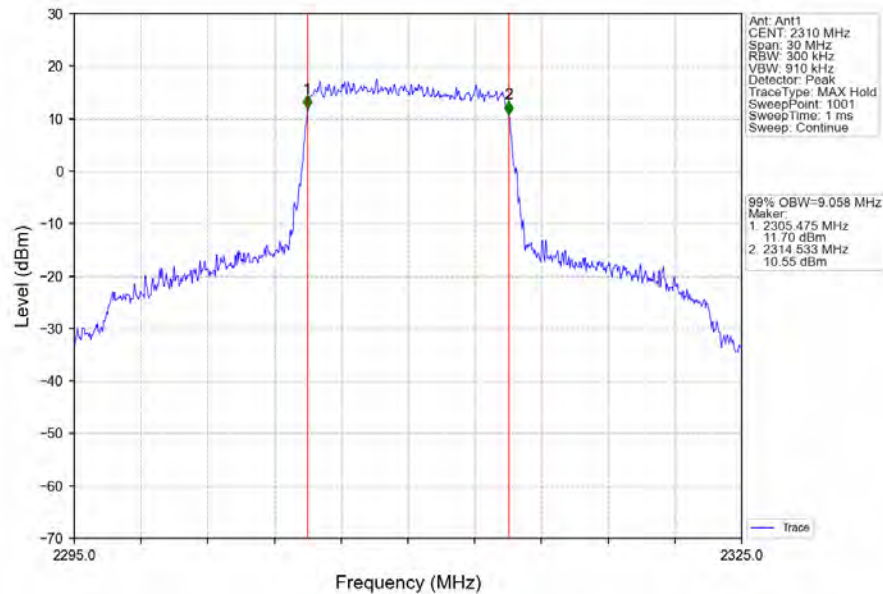


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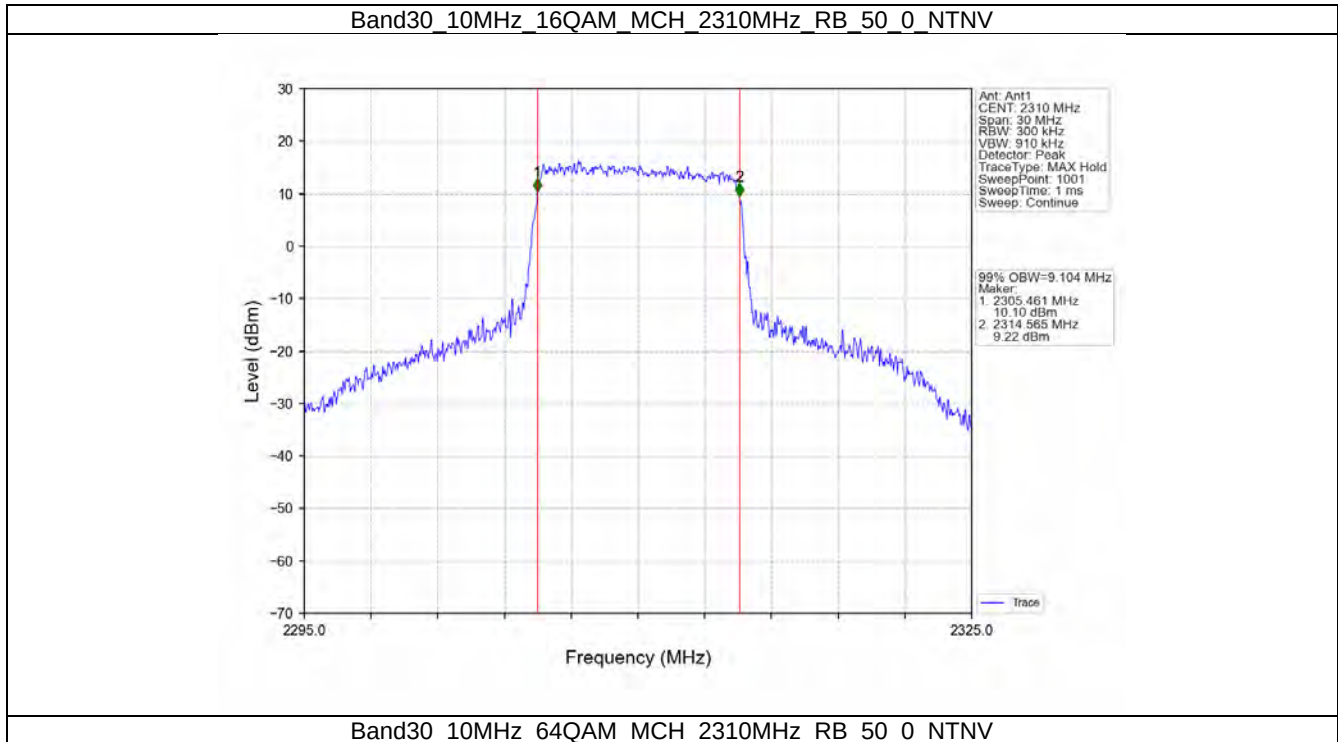


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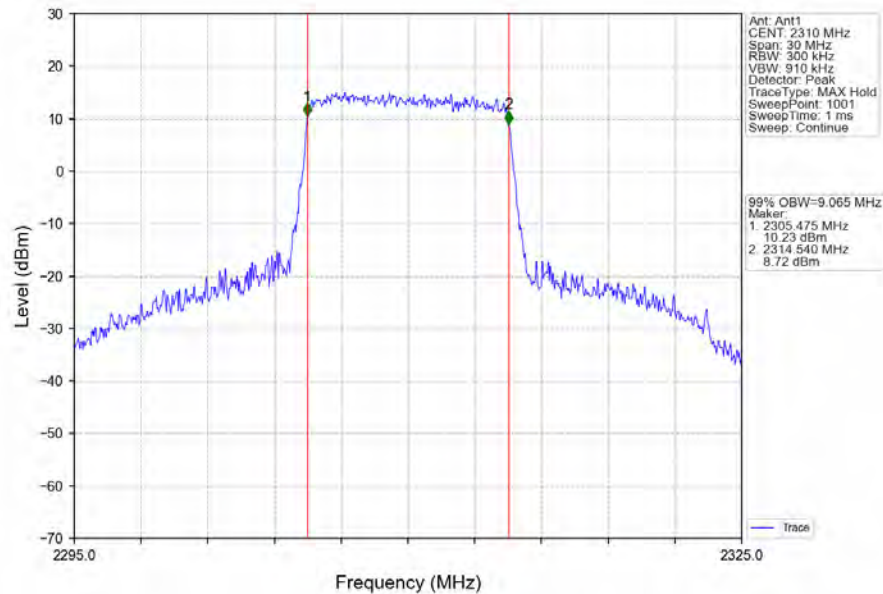


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3.2 Band30_XDB

3.2.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.233	/	Pass
		2310	25	0	5.263	/	Pass
		2312.5	25	0	5.436	/	Pass
	16QAM	2307.5	25	0	5.213	/	Pass
		2310	25	0	5.257	/	Pass
		2312.5	25	0	5.272	/	Pass
	64QAM	2307.5	25	0	5.208	/	Pass
		2310	25	0	5.221	/	Pass
10	QPSK	2310	50	0	10.214	/	Pass
	16QAM	2310	50	0	10.131	/	Pass
	64QAM	2310	50	0	10.213	/	Pass



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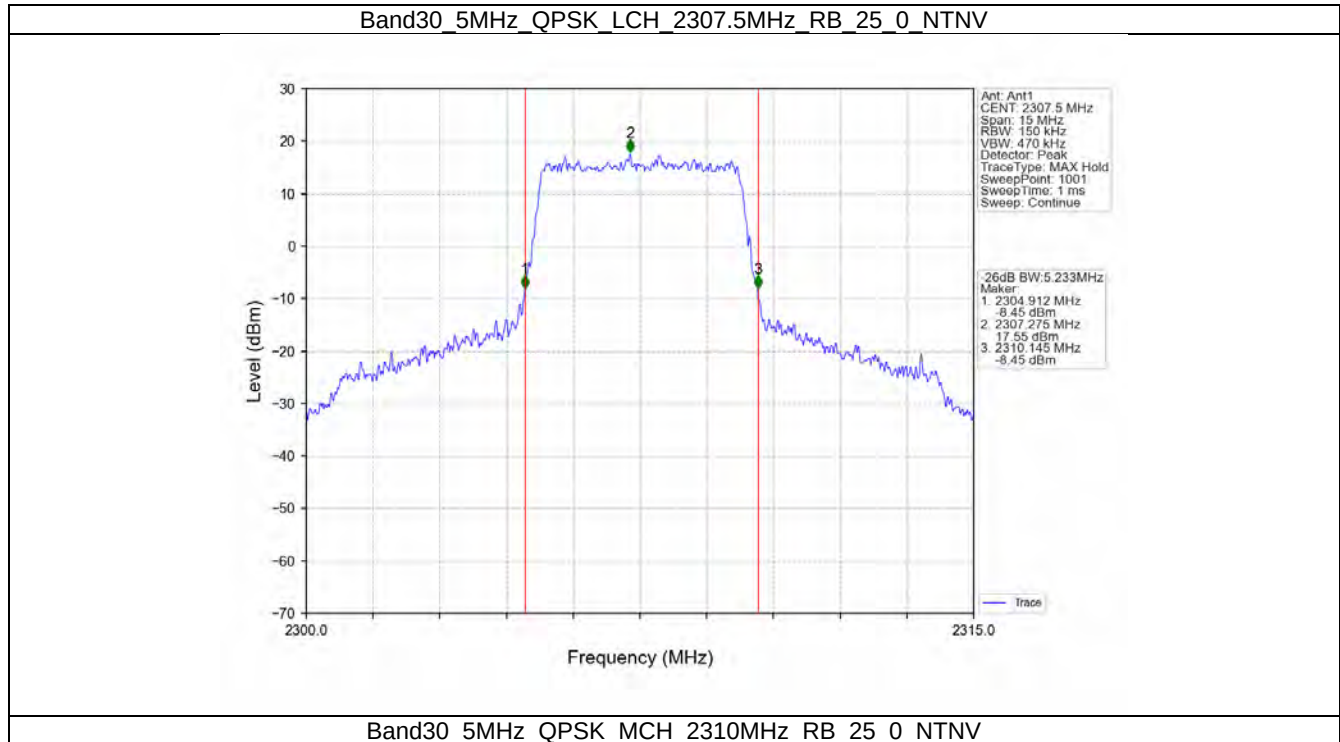
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3.2.2 Test Graph



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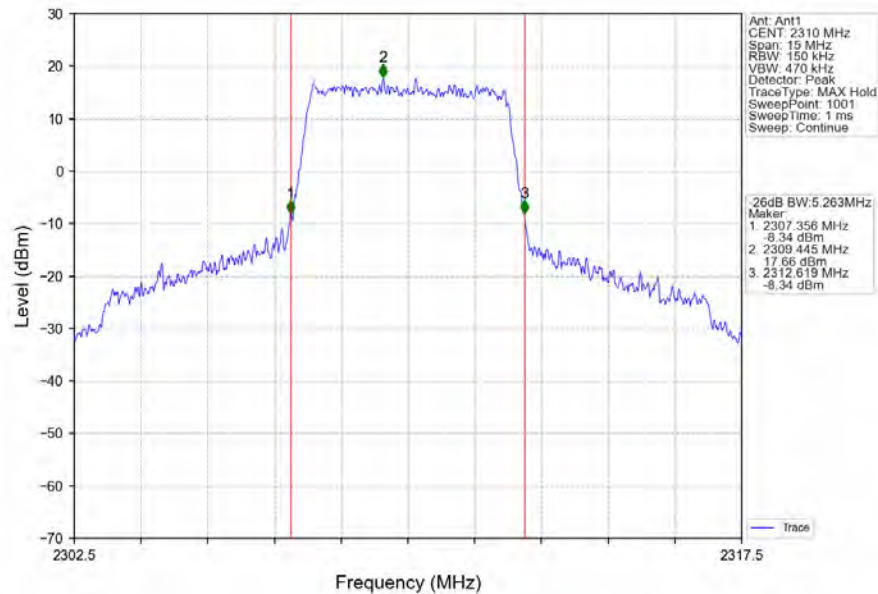


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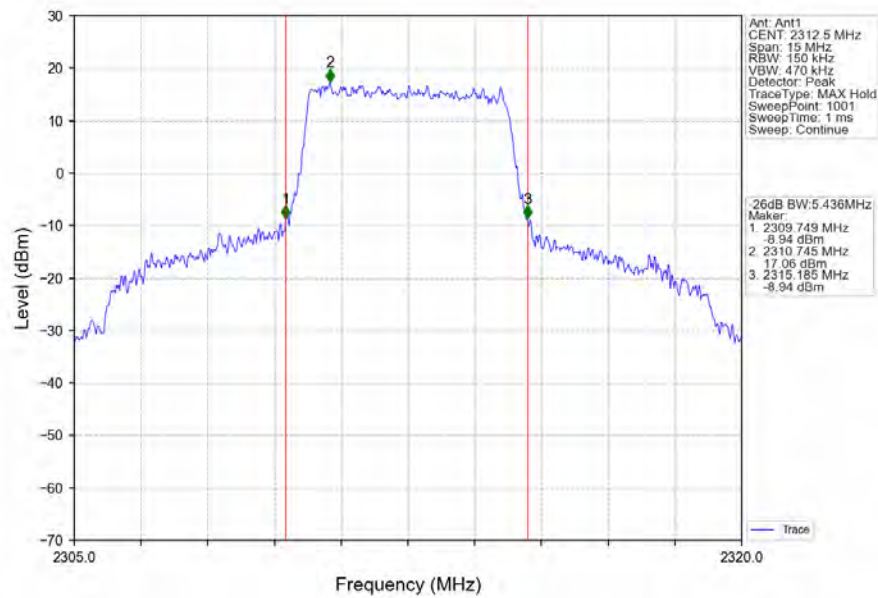
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Band30 5MHz QPSK HCH 2312.5MHz RB 25 0 NTN



Band30 5MHz 16QAM LCH 2307.5MHz RB 25 0 NTN



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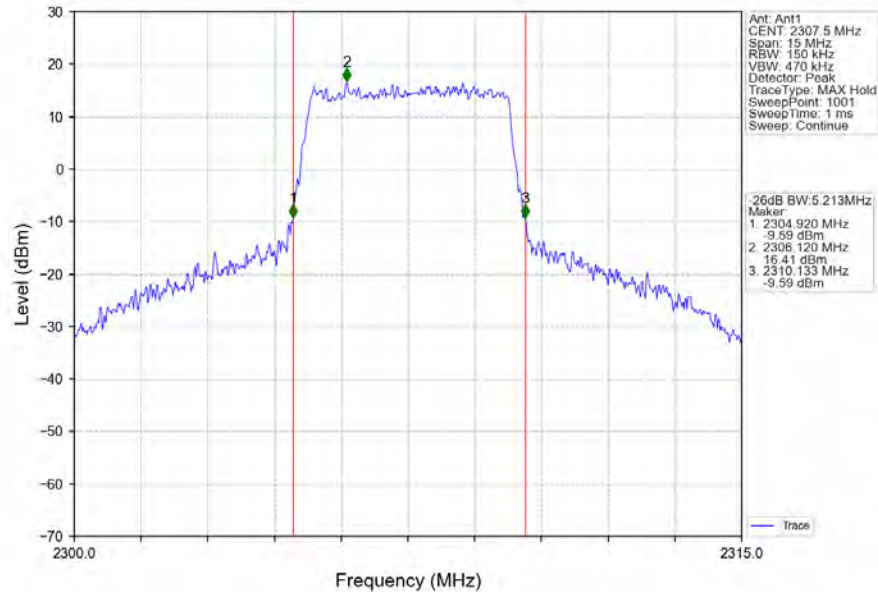


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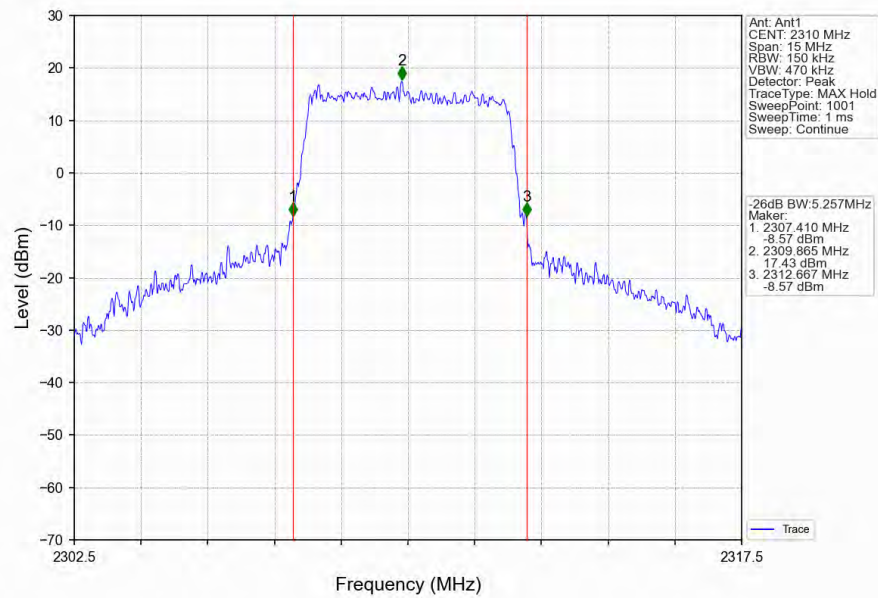
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Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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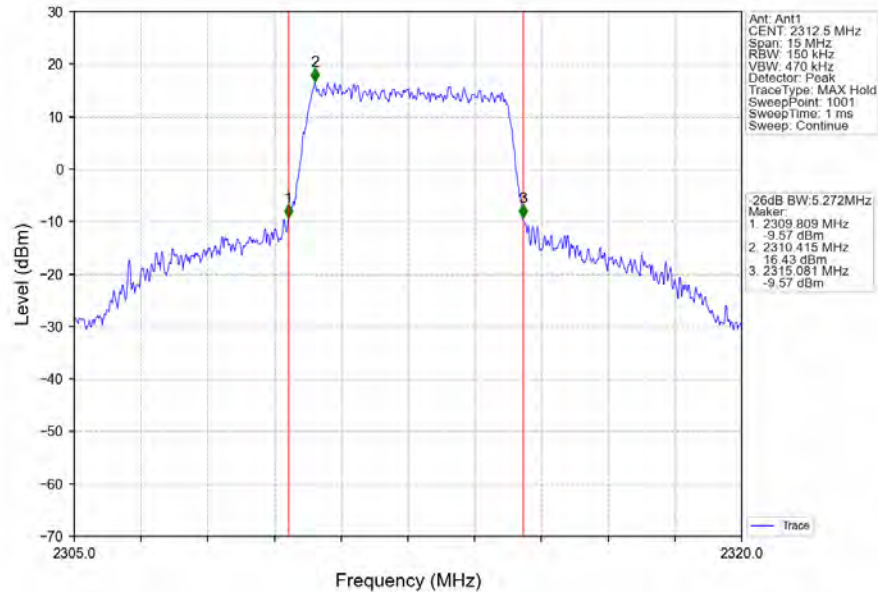


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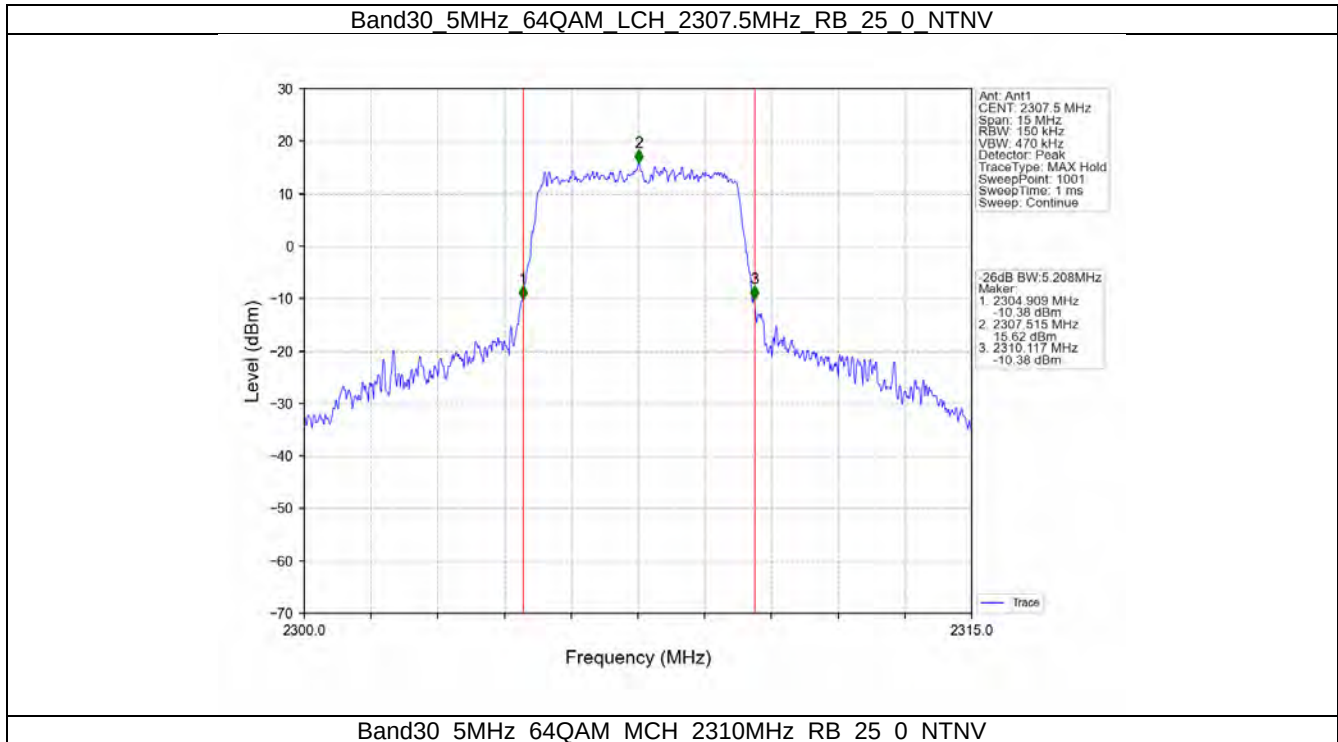


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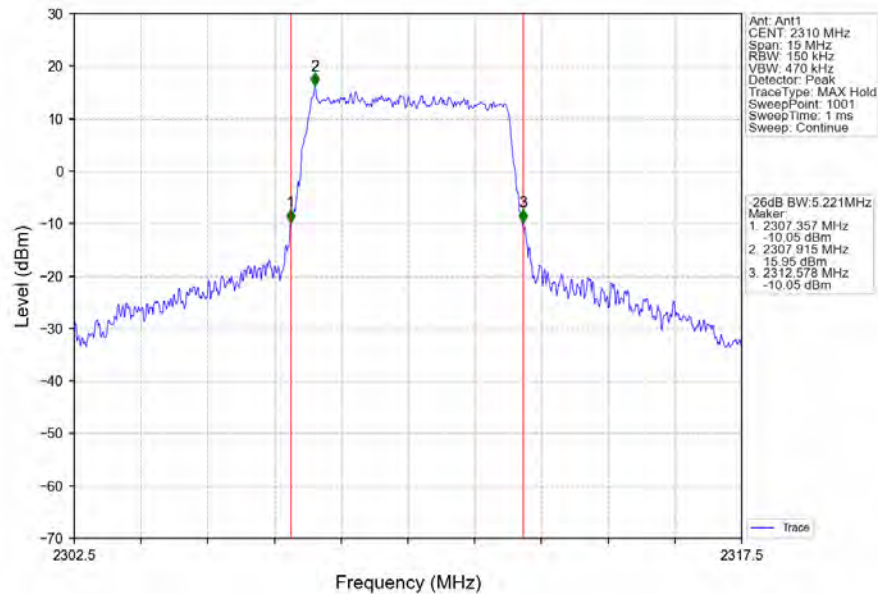


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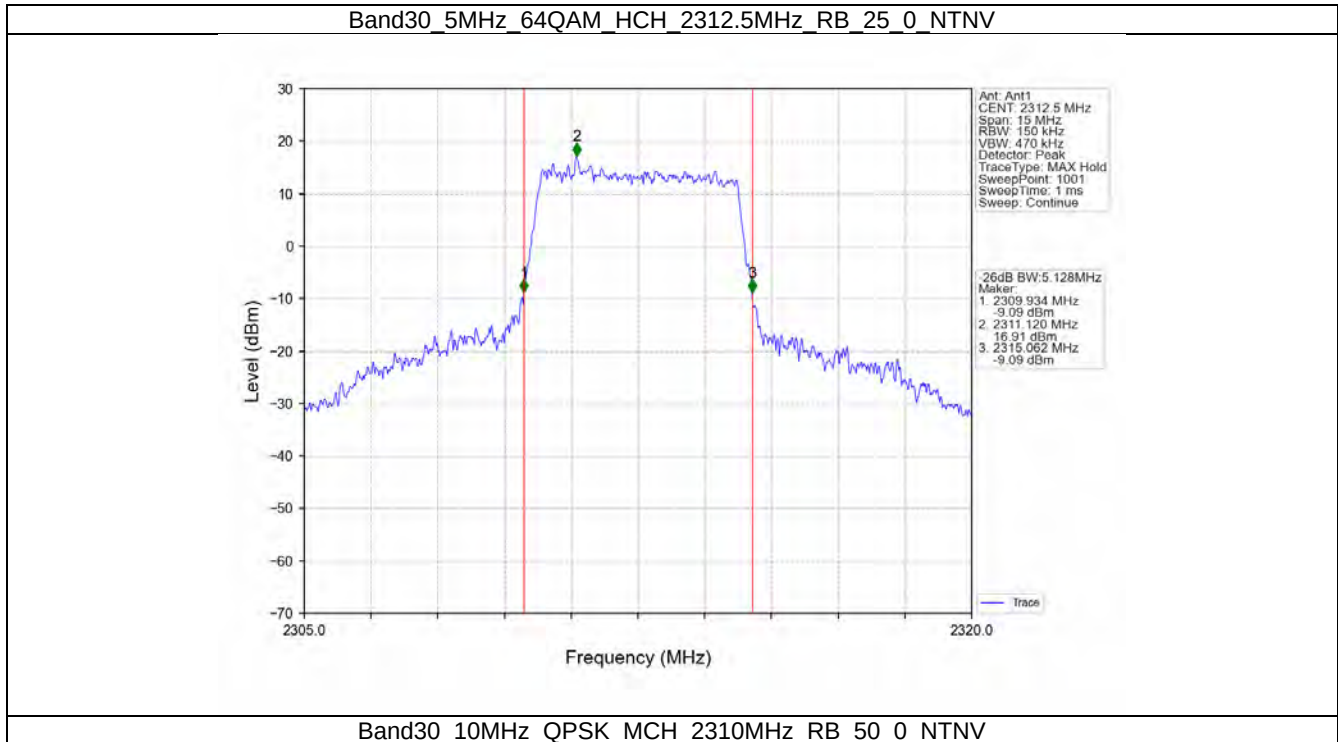


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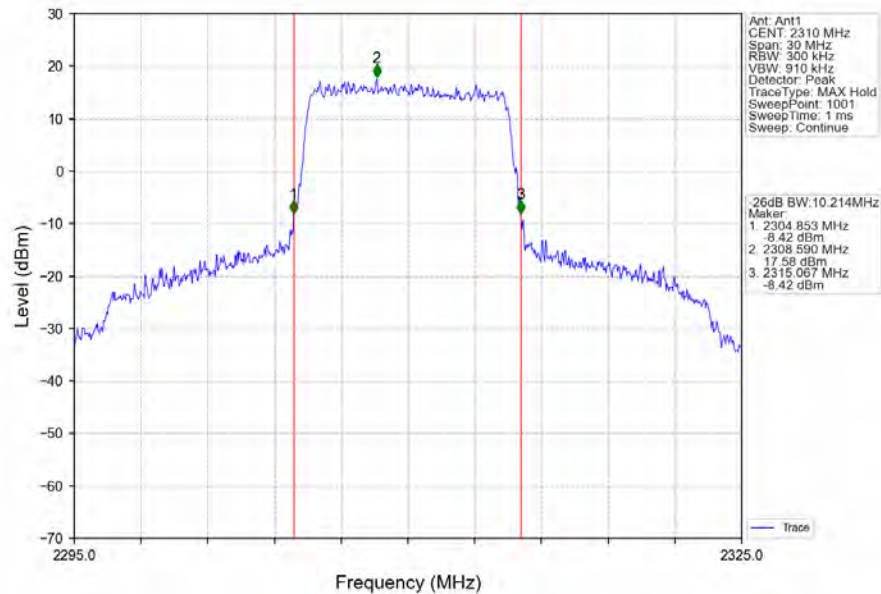


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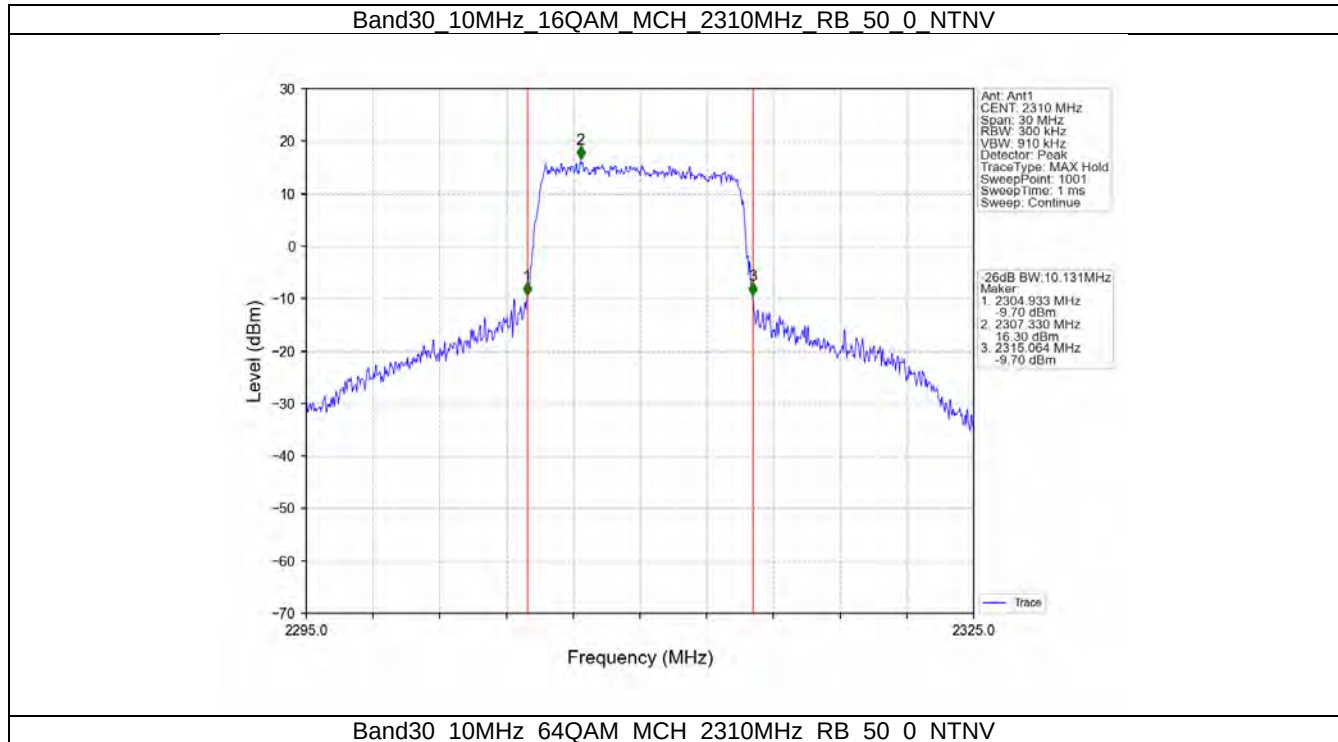


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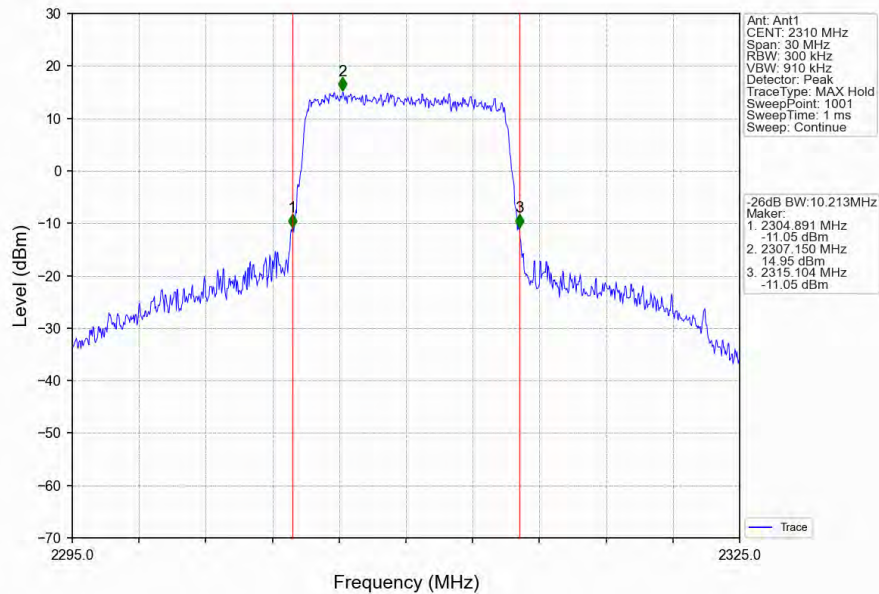


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4. Peak-Average Ratio

4.1 B30_5MHz

4.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	4.95	<=13	Pass
	2310	25	0	4.87	<=13	Pass
	2312.5	25	0	4.65	<=13	Pass
16QAM	2307.5	25	0	5.77	<=13	Pass
	2310	25	0	5.71	<=13	Pass
	2312.5	25	0	5.41	<=13	Pass
64QAM	2307.5	25	0	9.22	<=13	Pass
	2310	25	0	9.33	<=13	Pass
	2312.5	25	0	8.77	<=13	Pass



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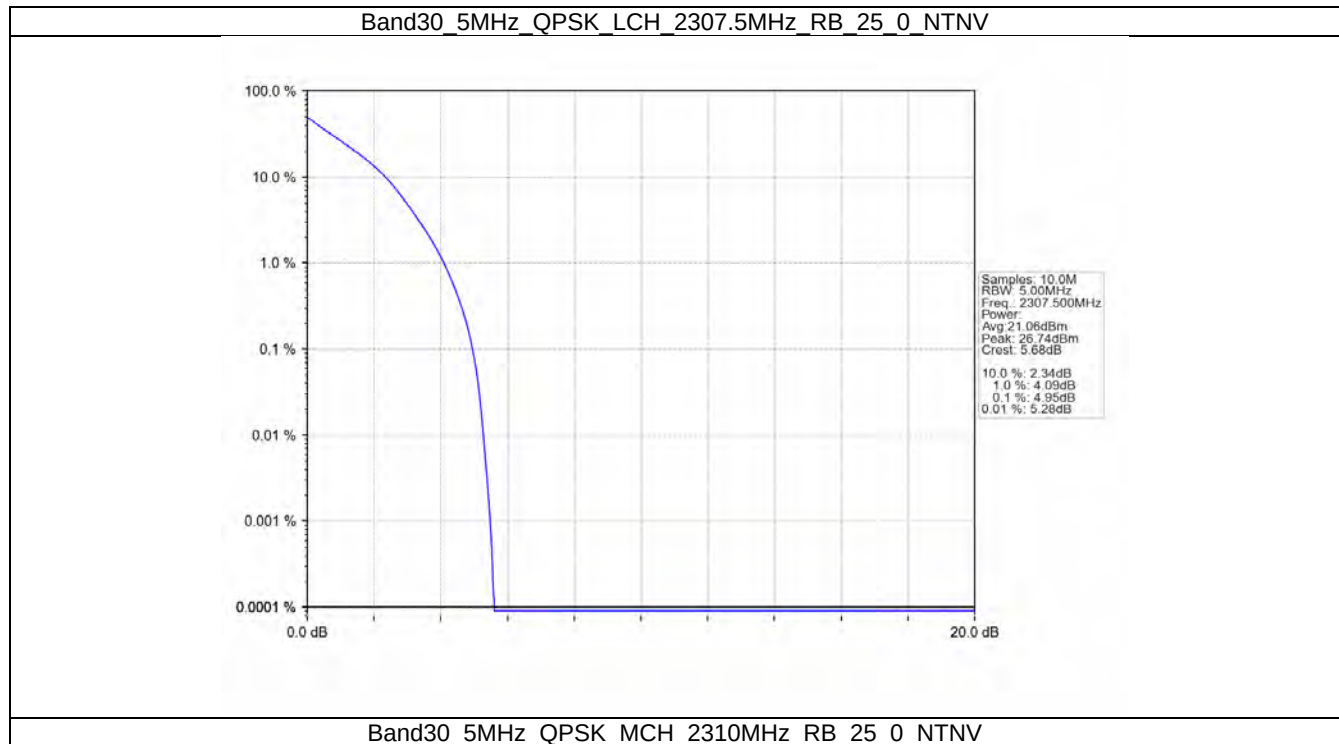
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4.1.2 Test Graph



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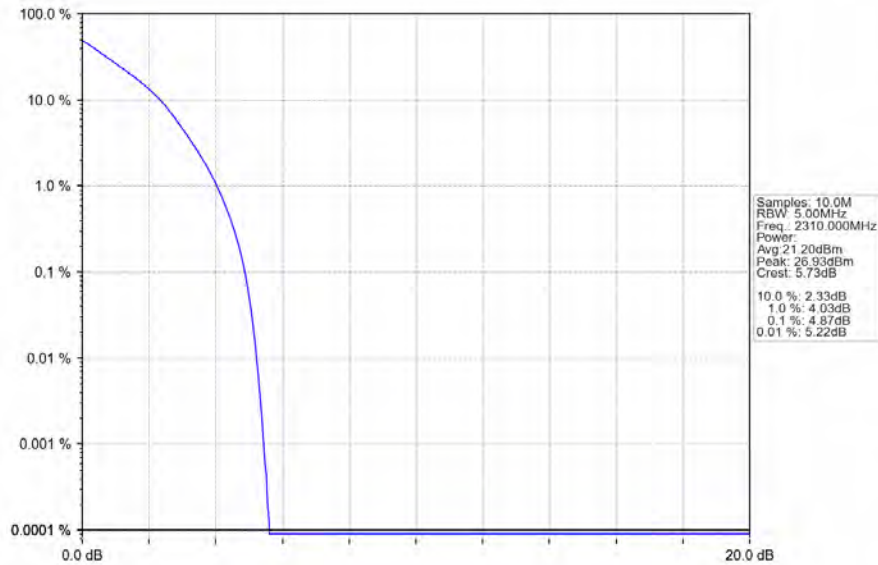


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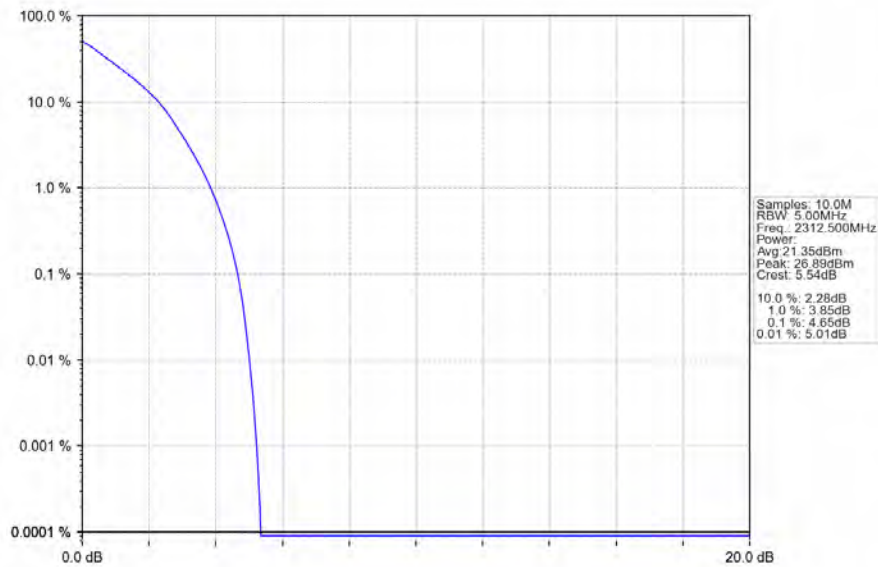
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Band30 5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band30 5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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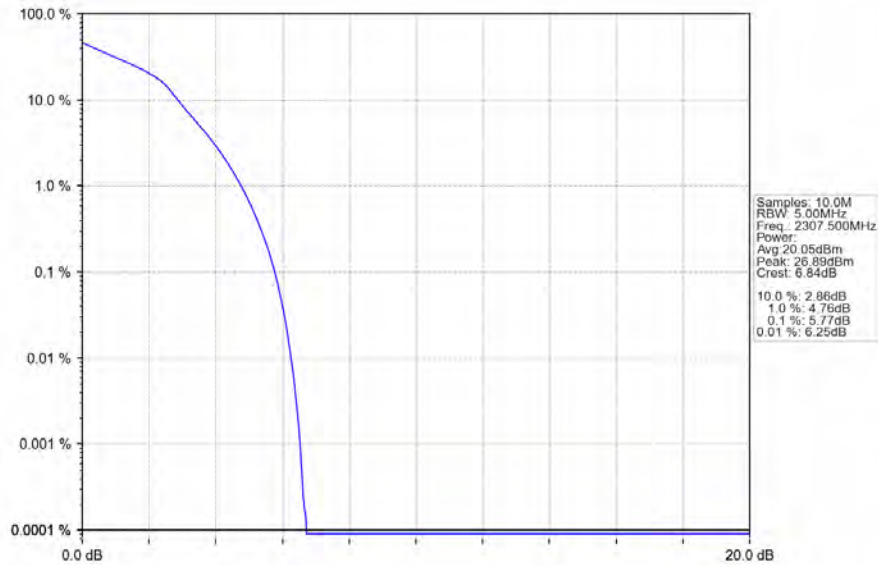


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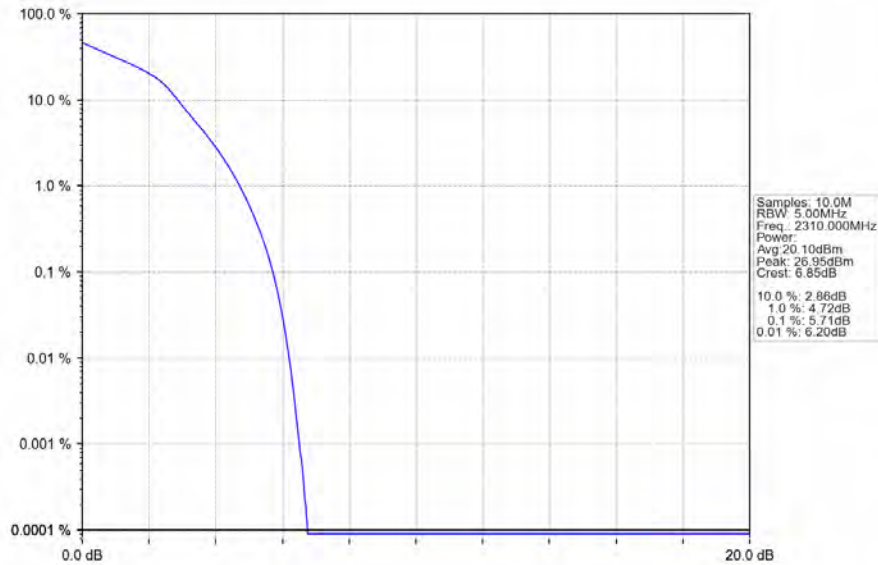
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Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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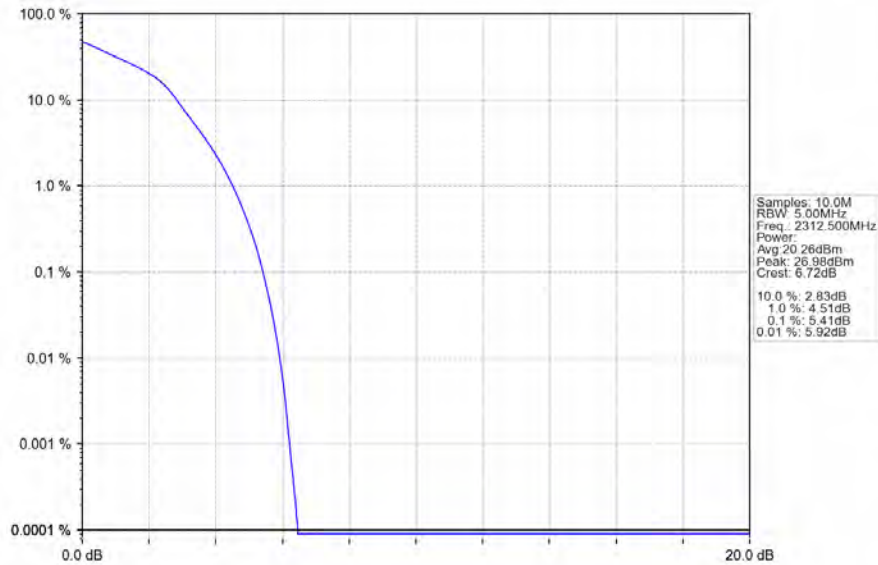


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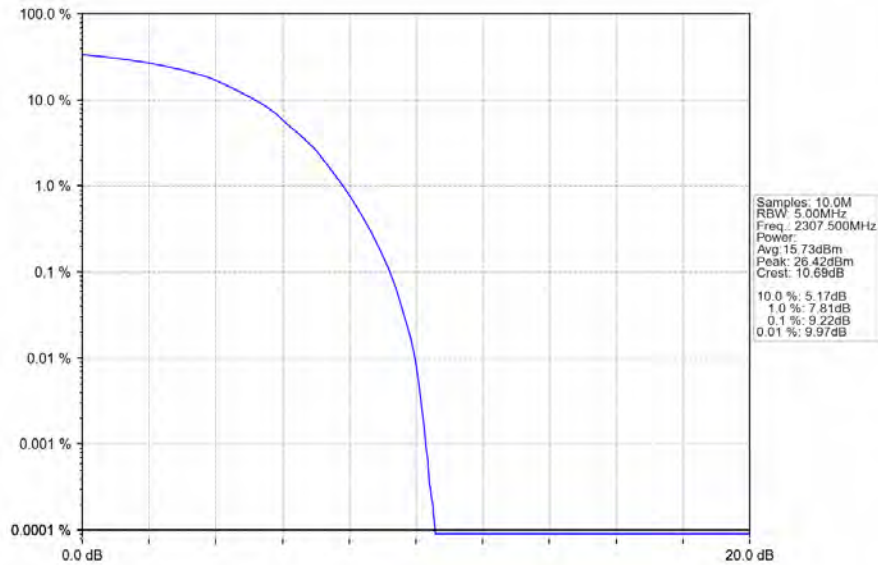
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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



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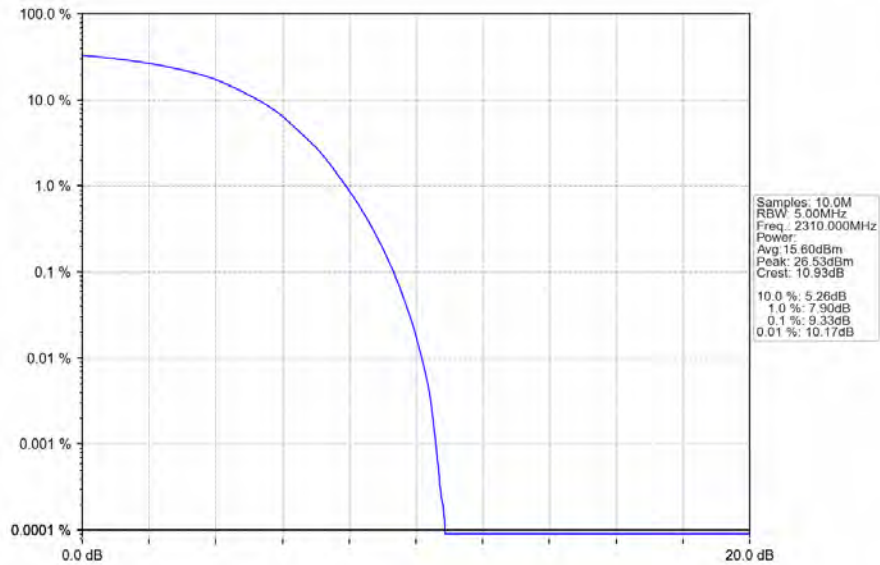


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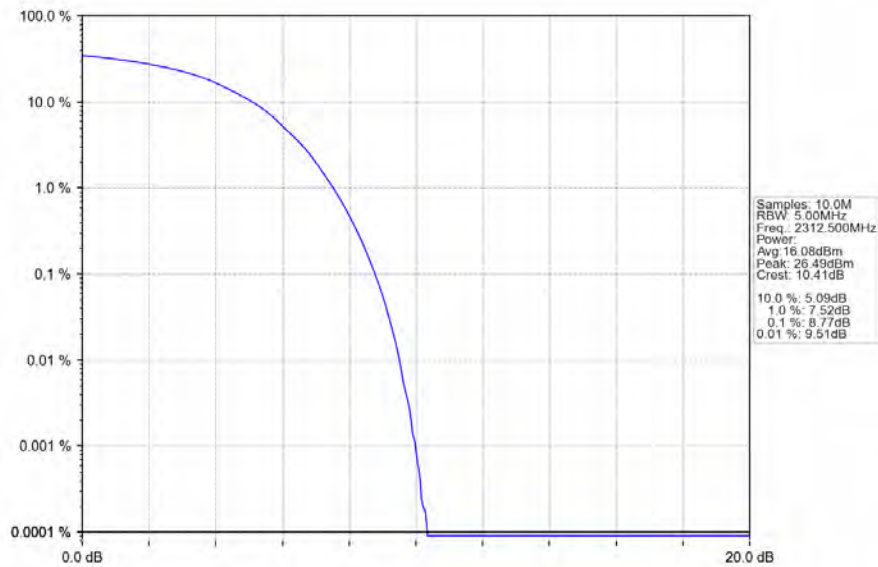
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4.2 B30_10MHz

4.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	4.73	<=13	Pass
16QAM	2310	50	0	5.56	<=13	Pass
64QAM	2310	50	0	6.42	<=13	Pass



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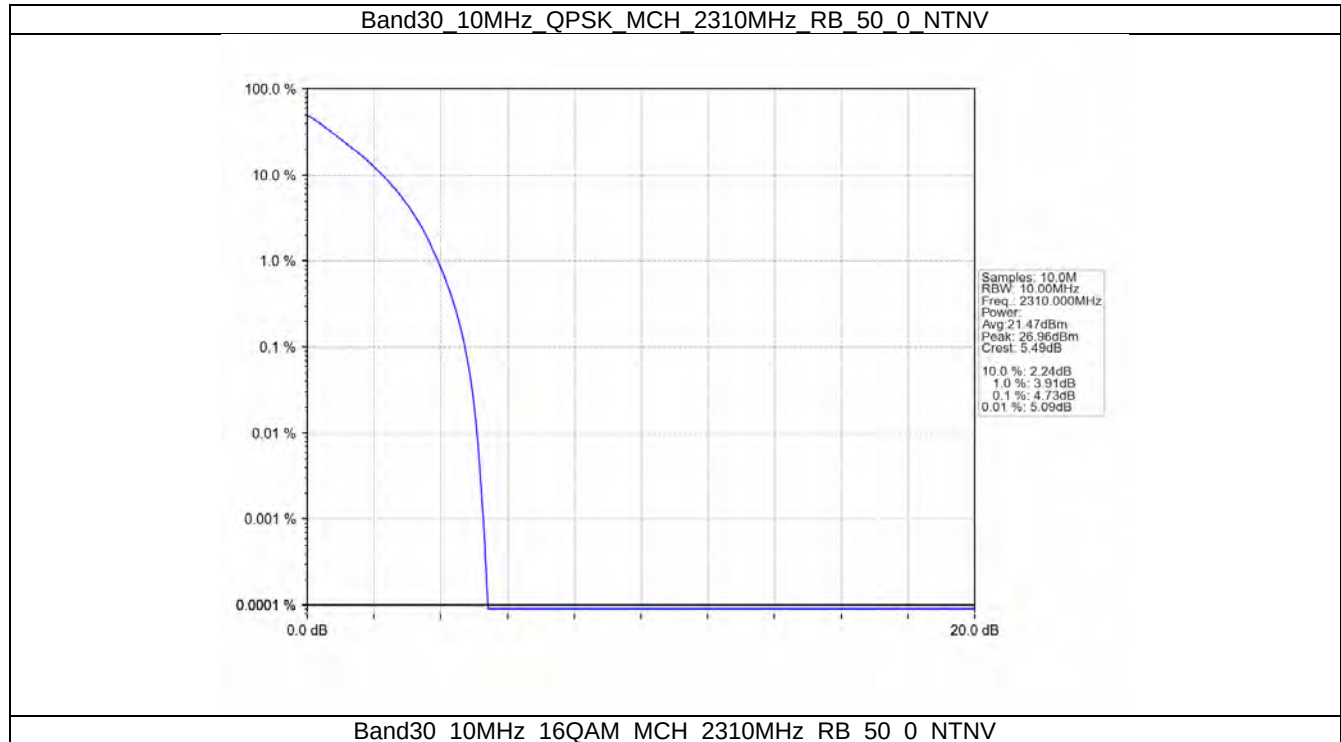
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4.2.2 Test Graph



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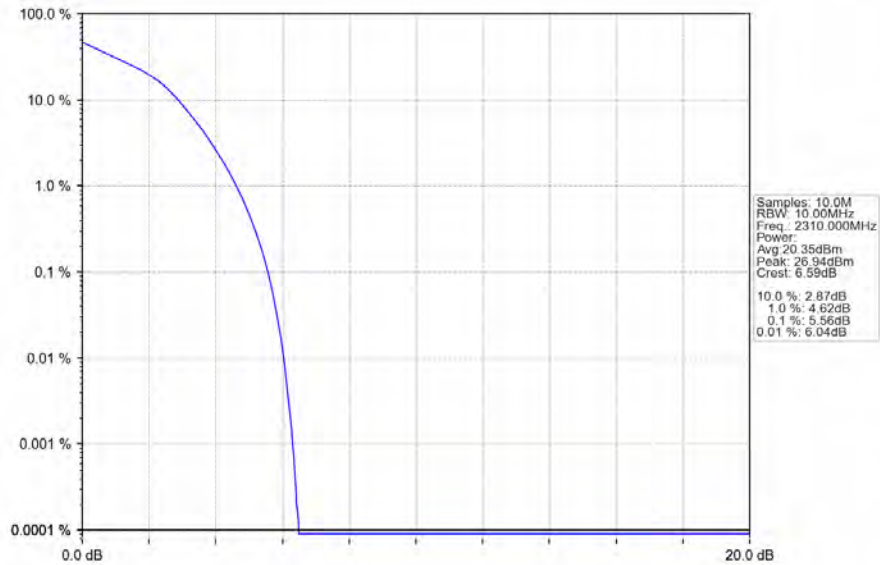


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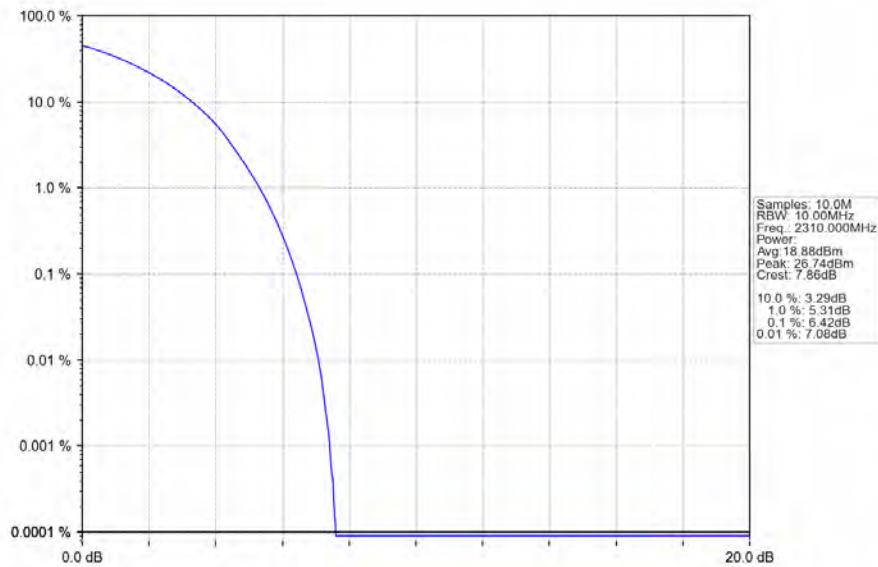
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Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



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5. Spurious Emission & Band Edges

5.1 B30_5MHz

5.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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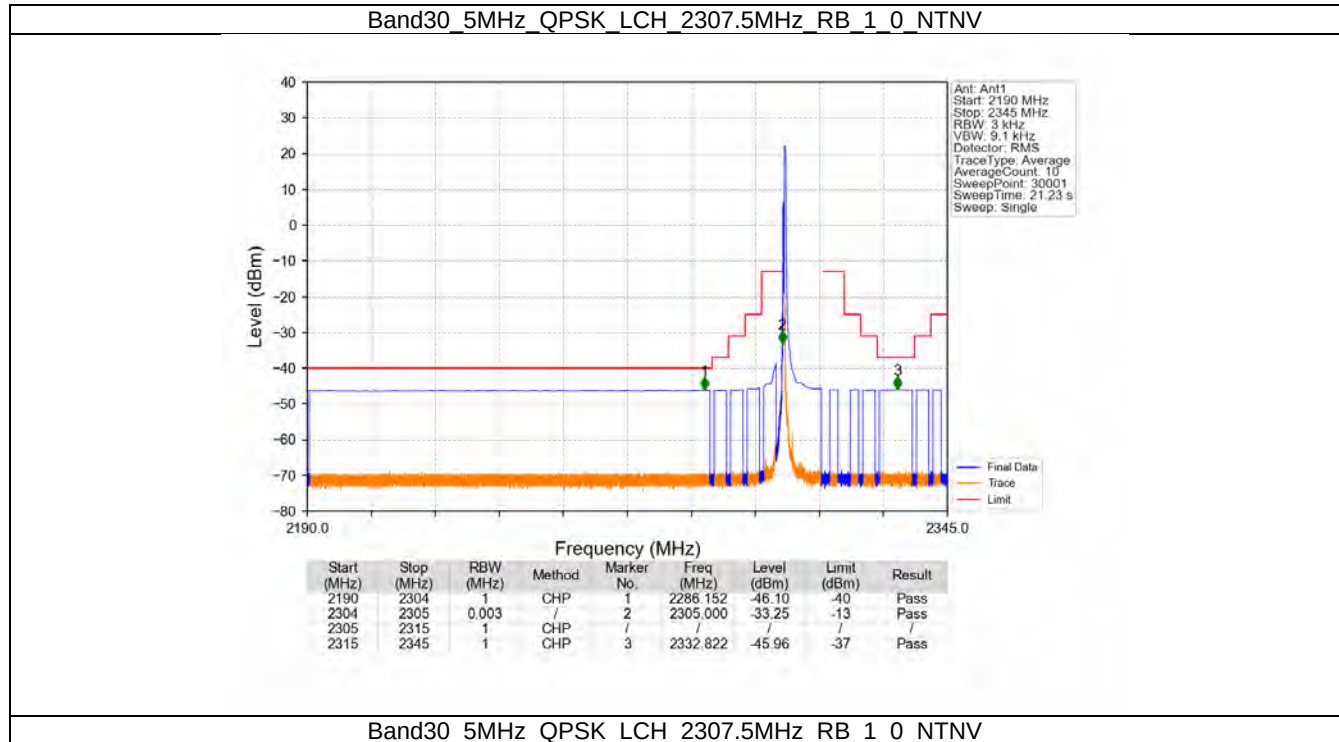
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5.1.2 Test Graph



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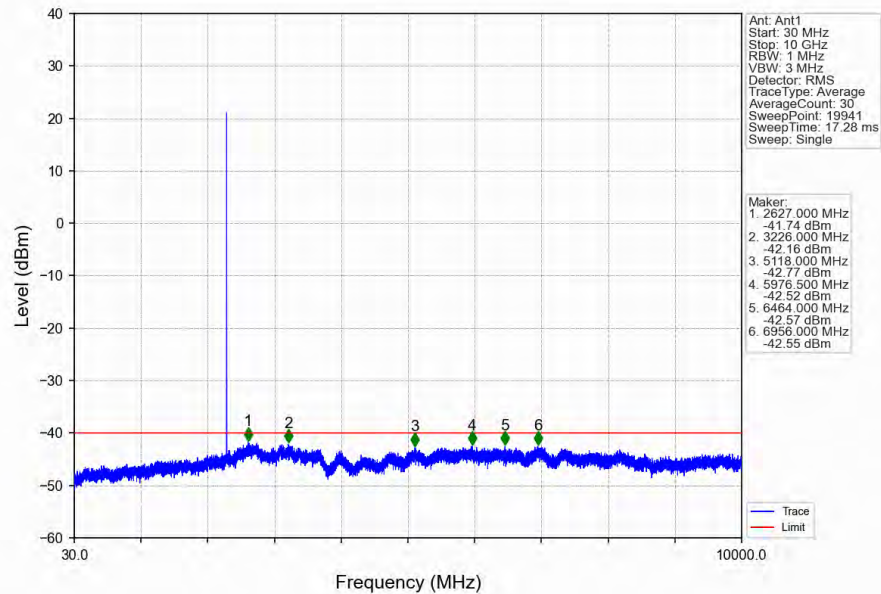


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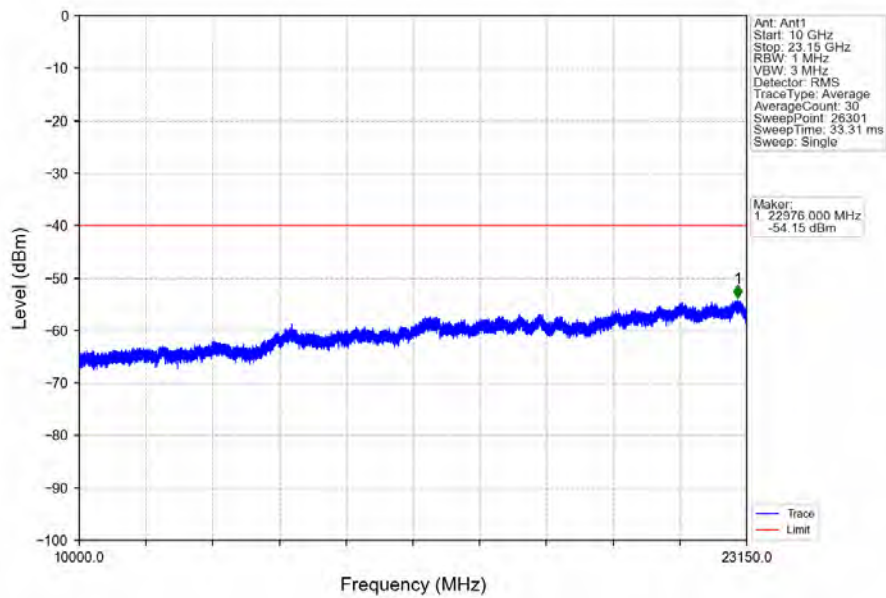
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Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



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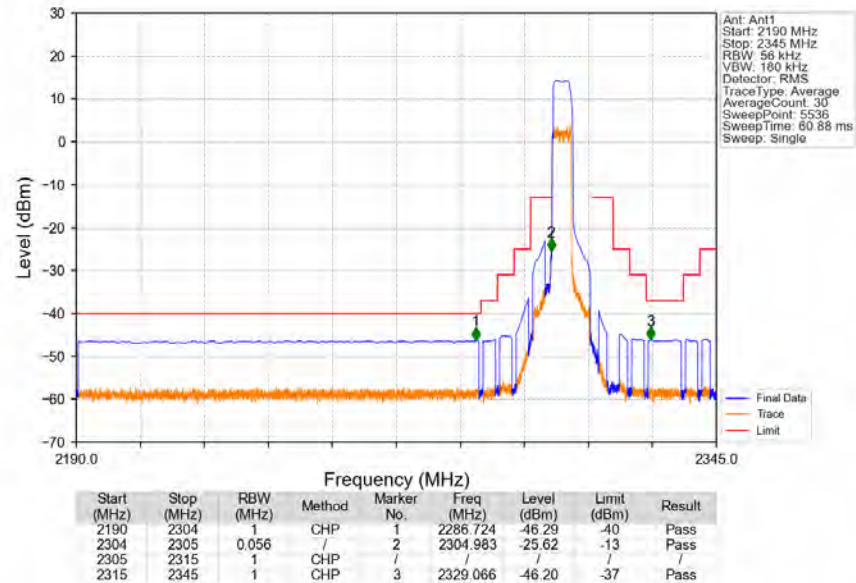


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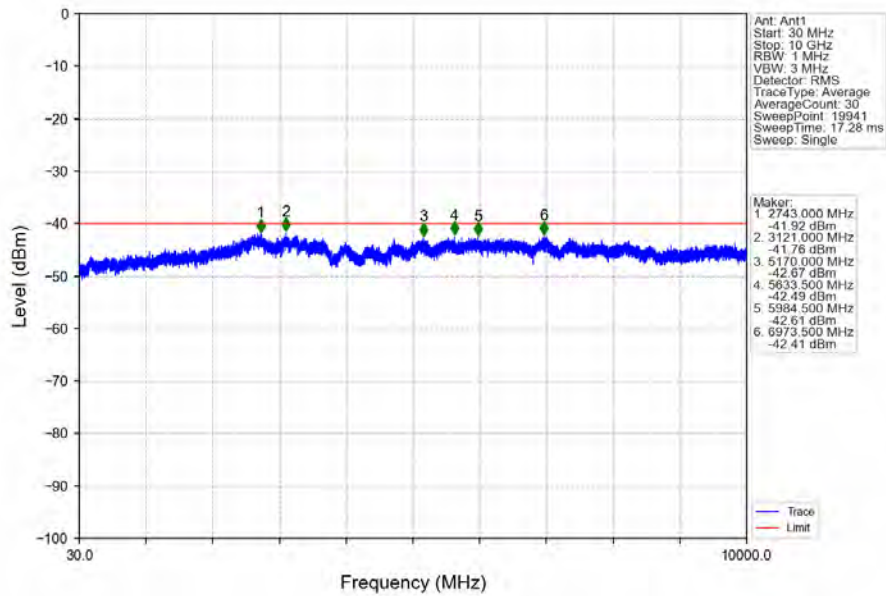
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Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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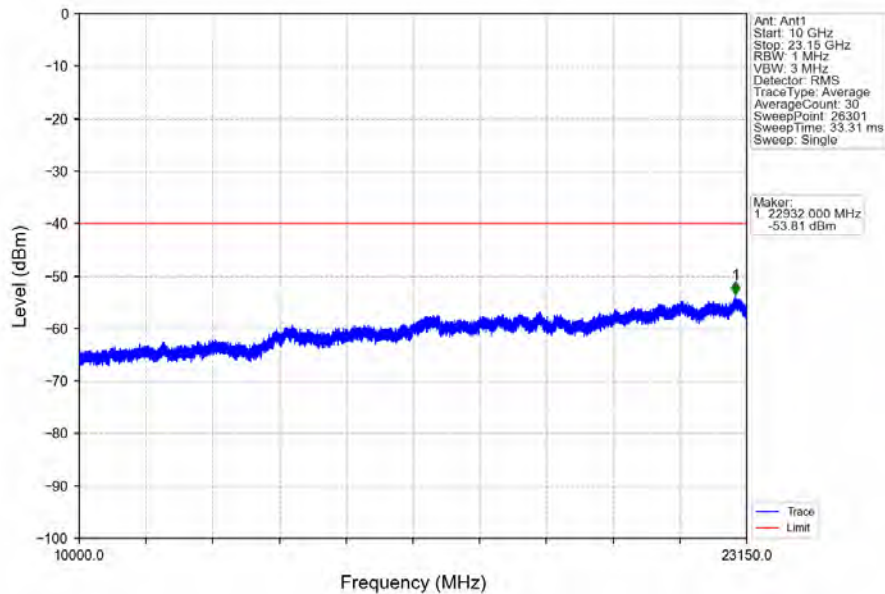


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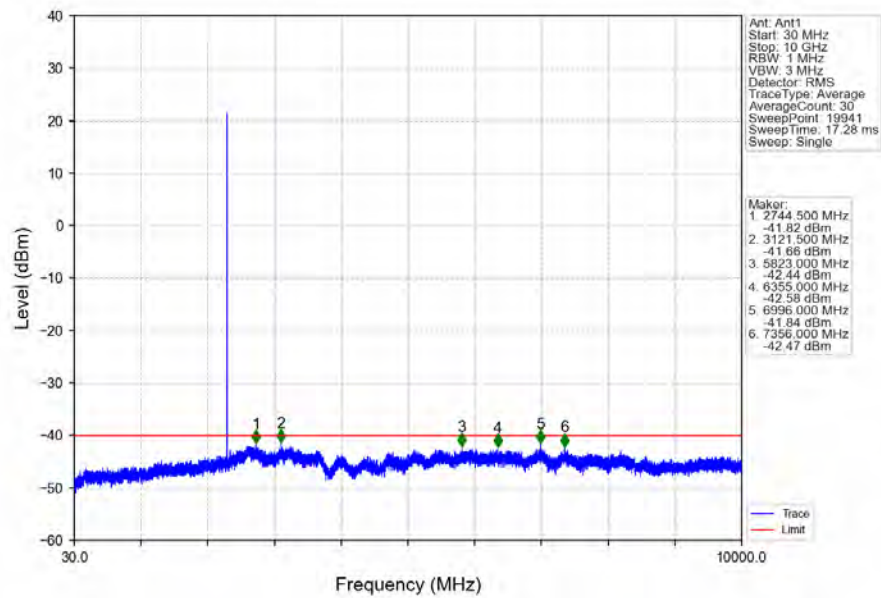
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



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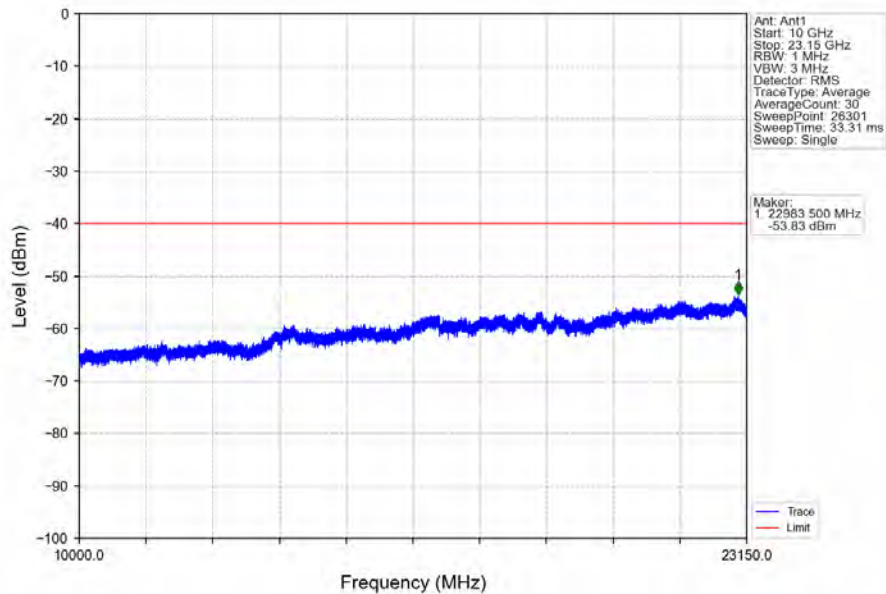


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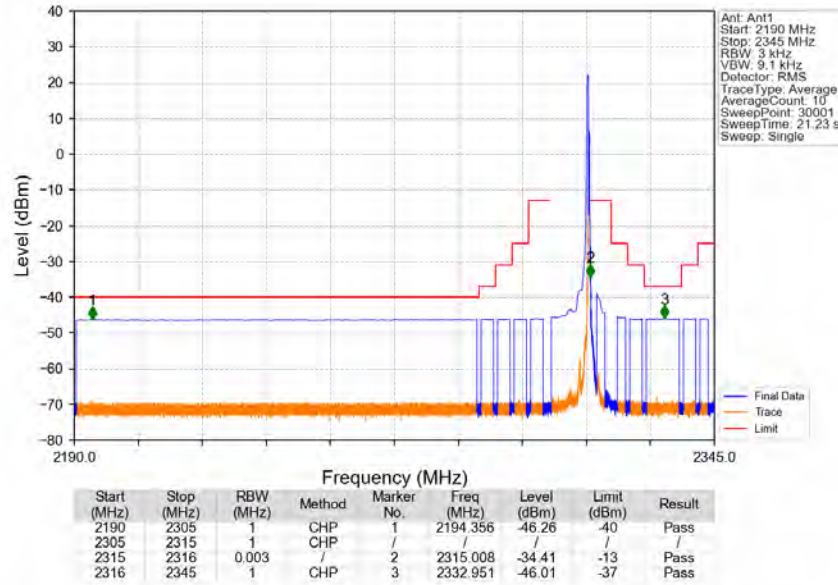
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



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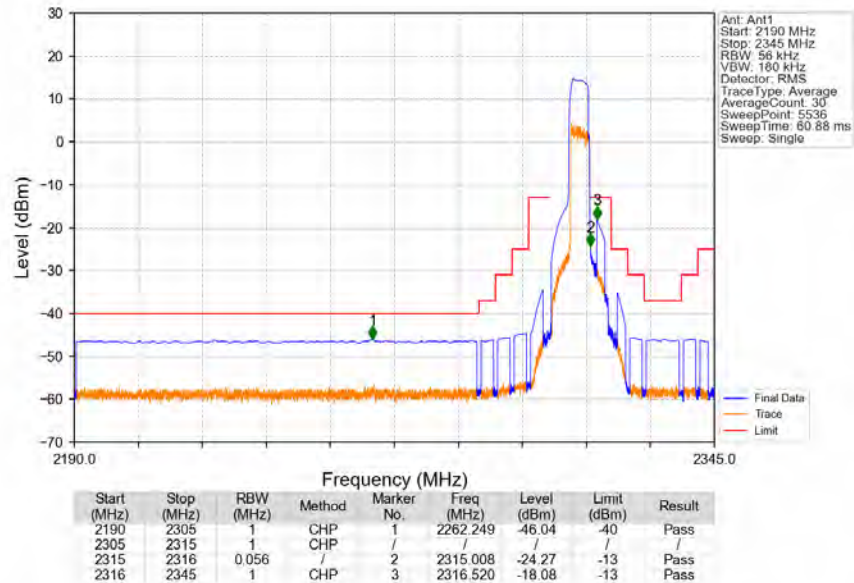


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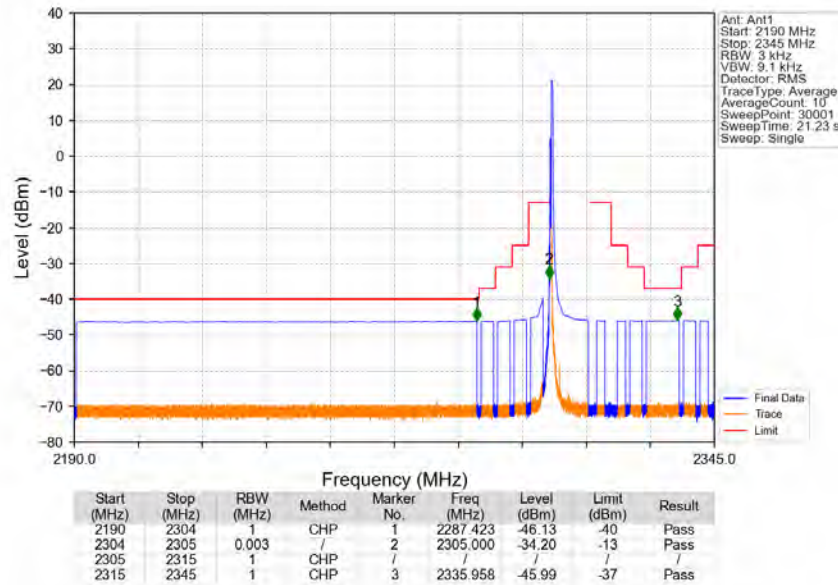
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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



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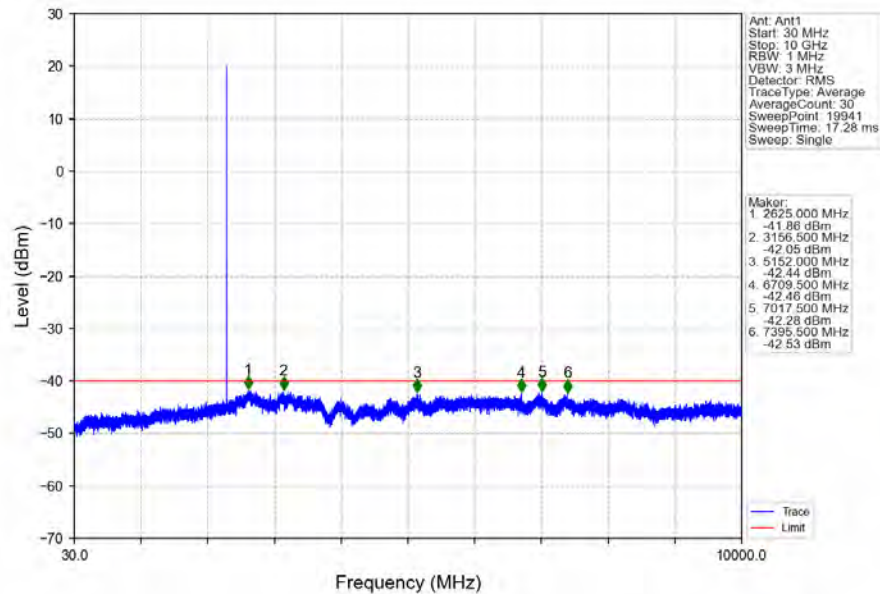


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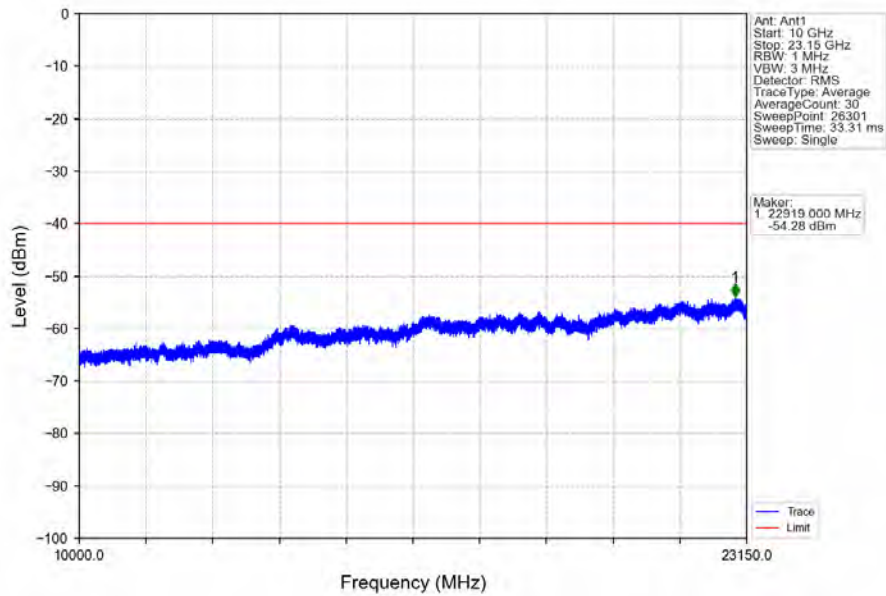
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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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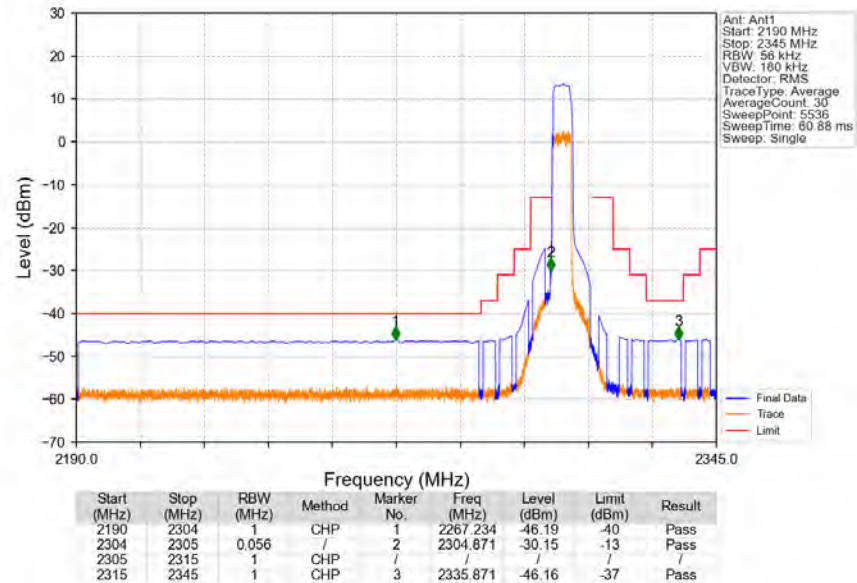


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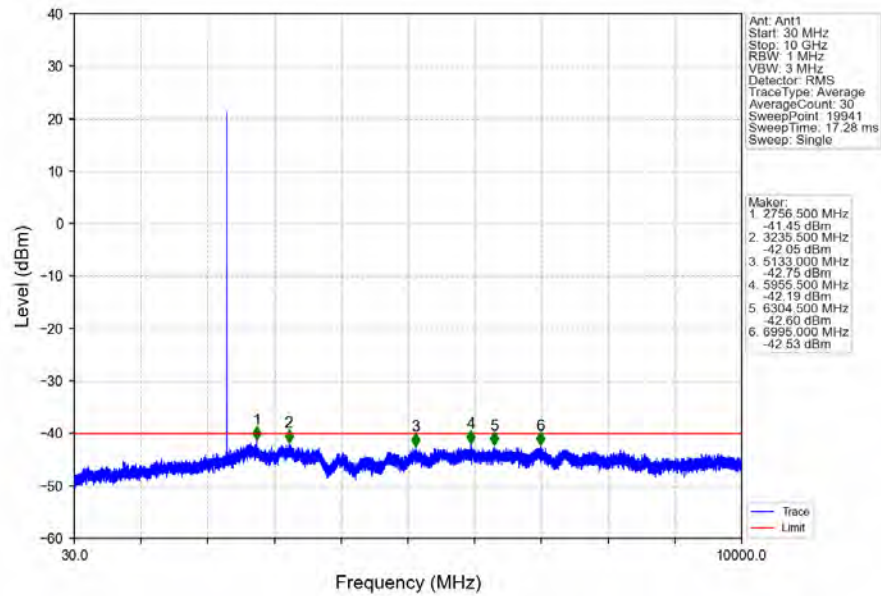
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Band30_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



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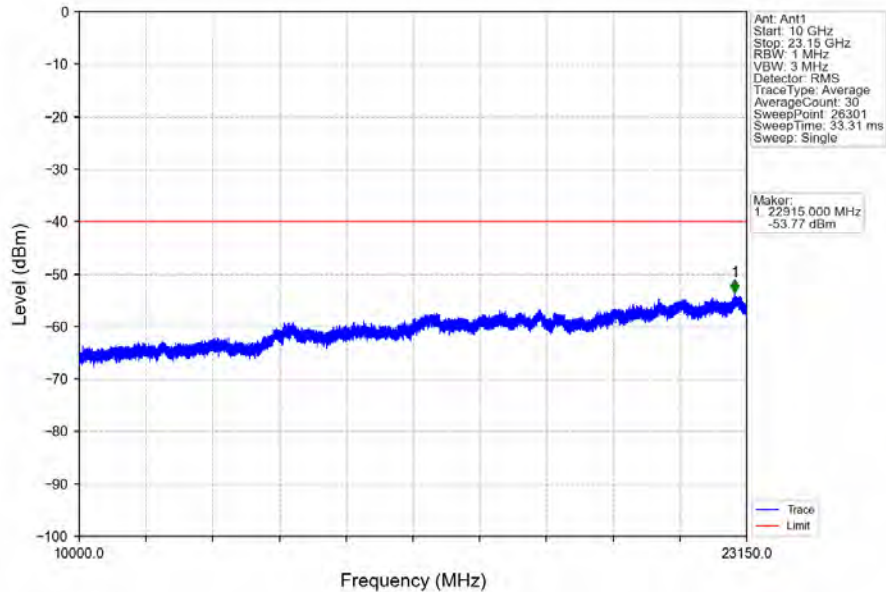


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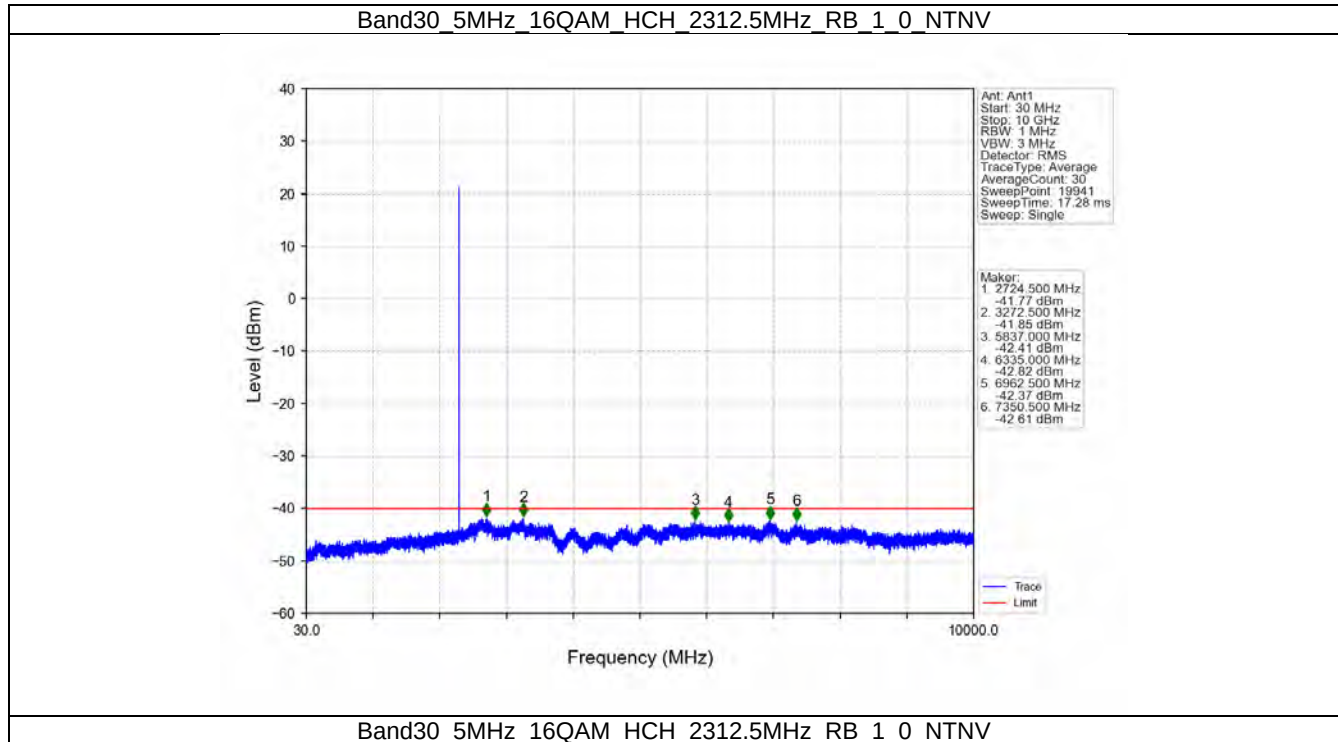


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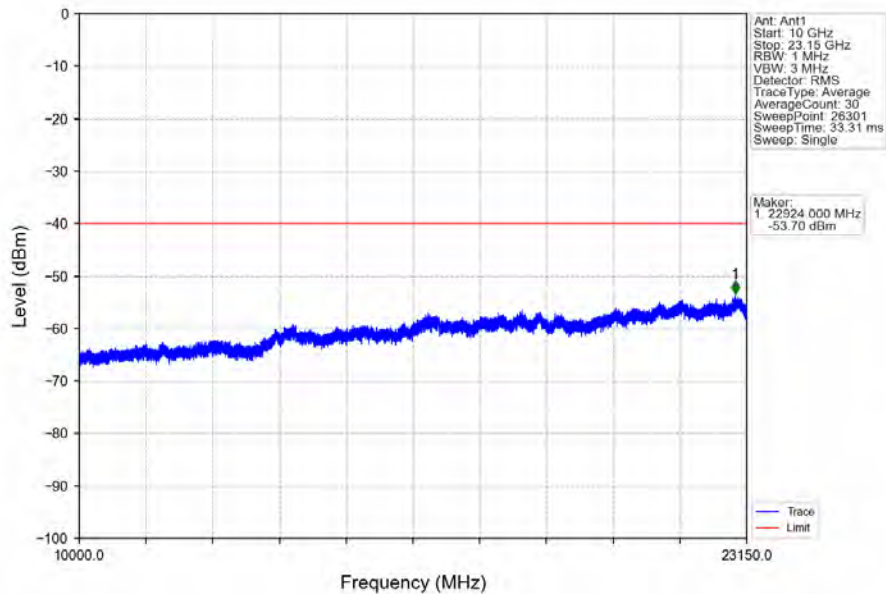


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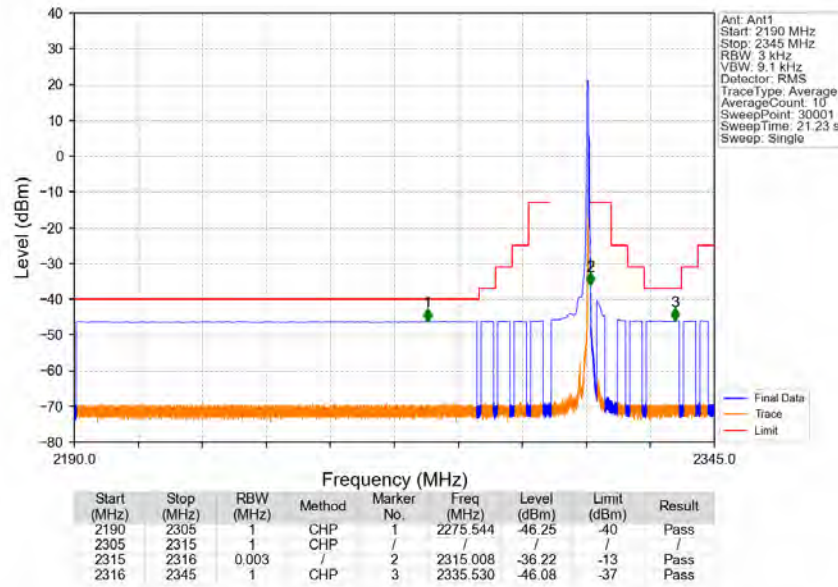
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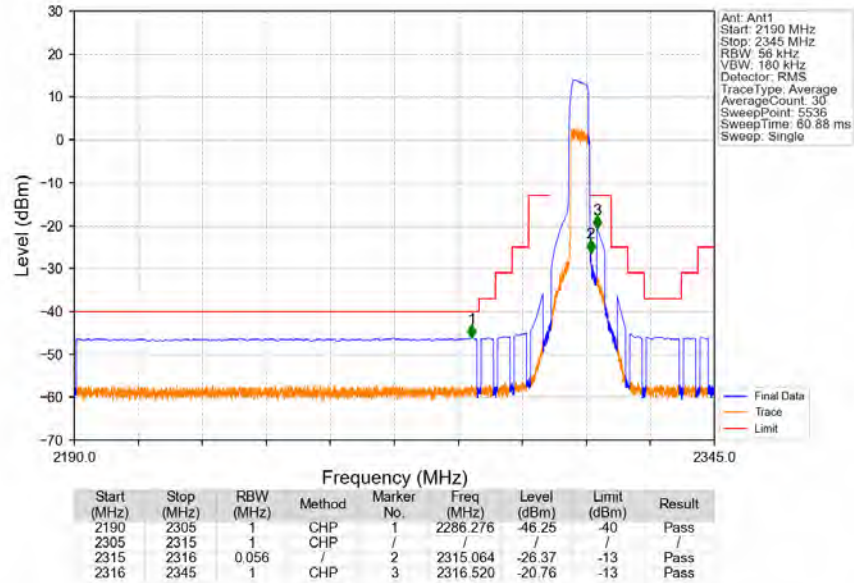


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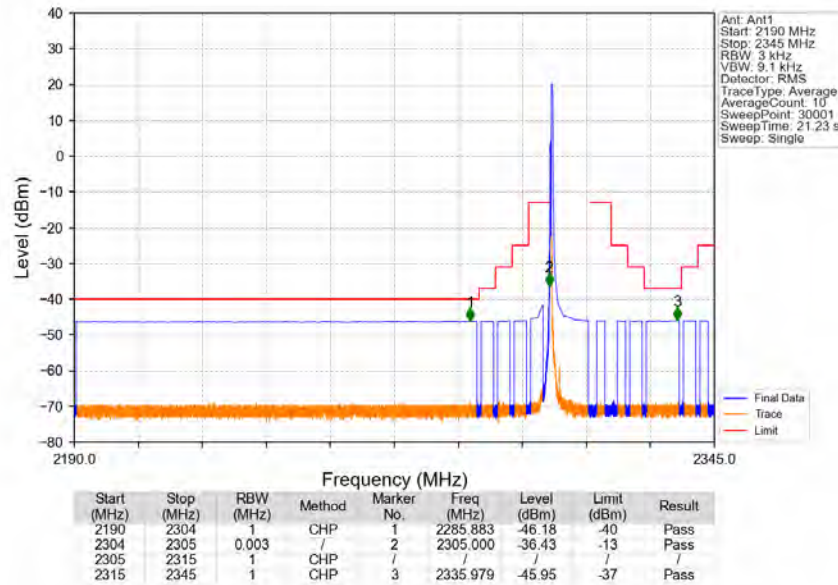
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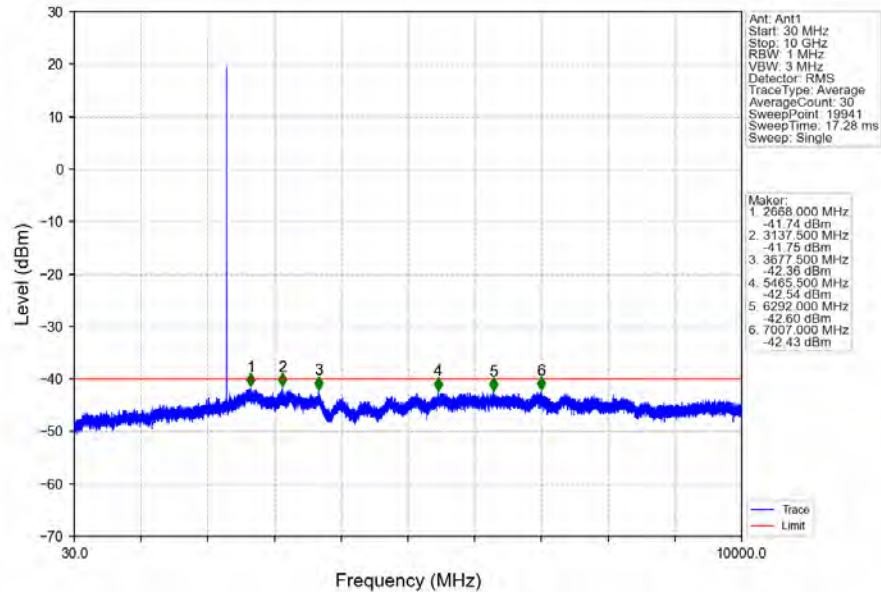


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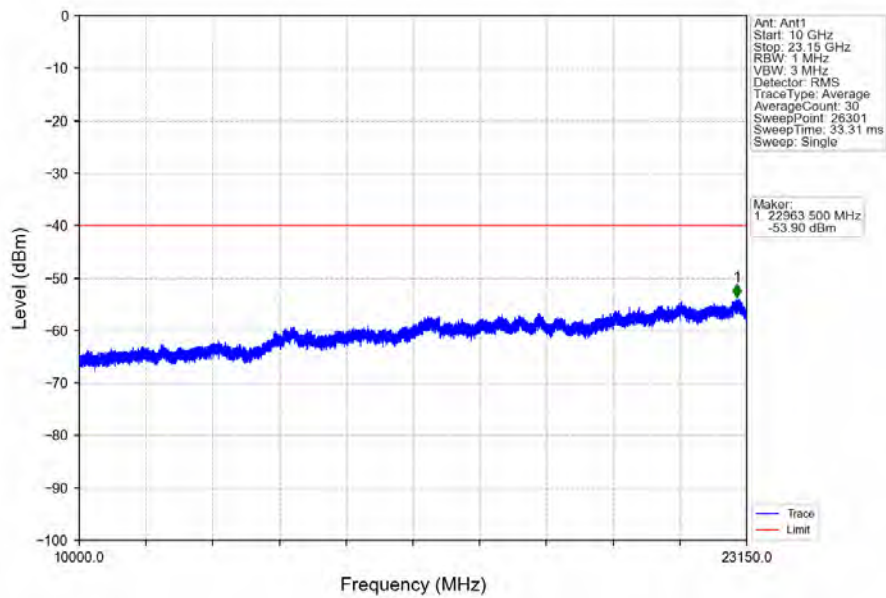
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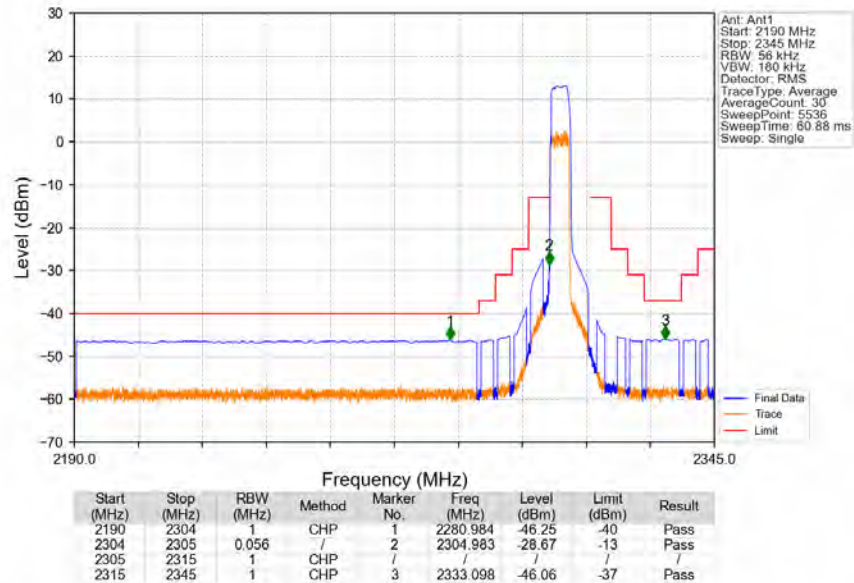


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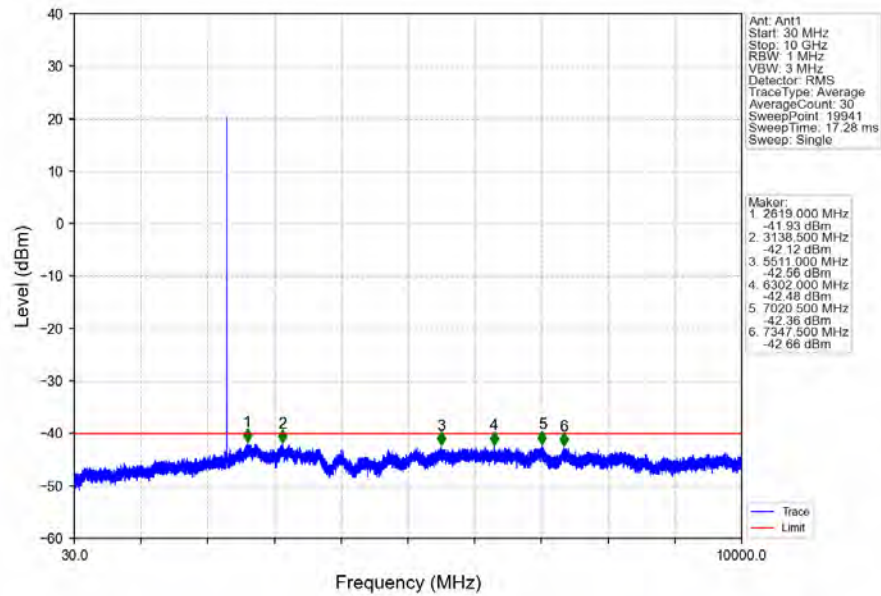
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Band30_5MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV



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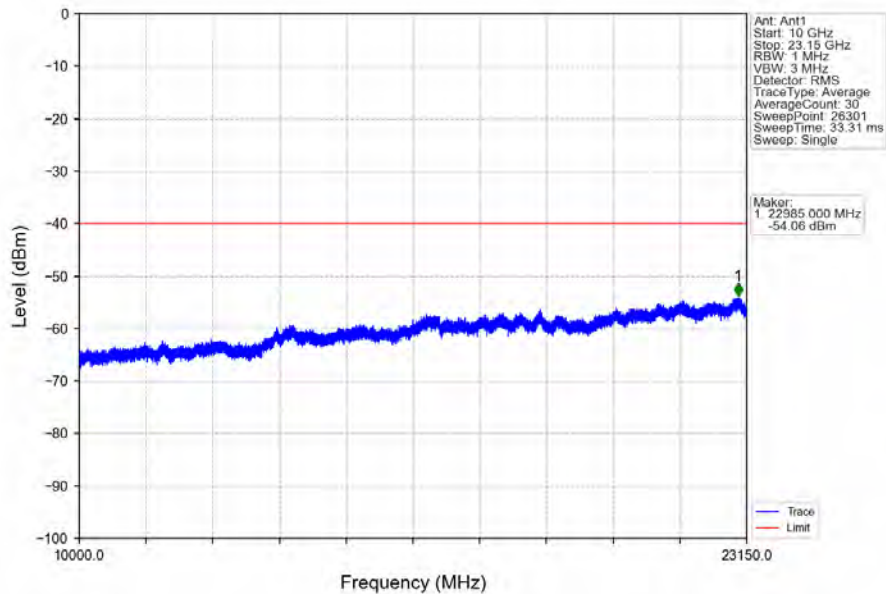


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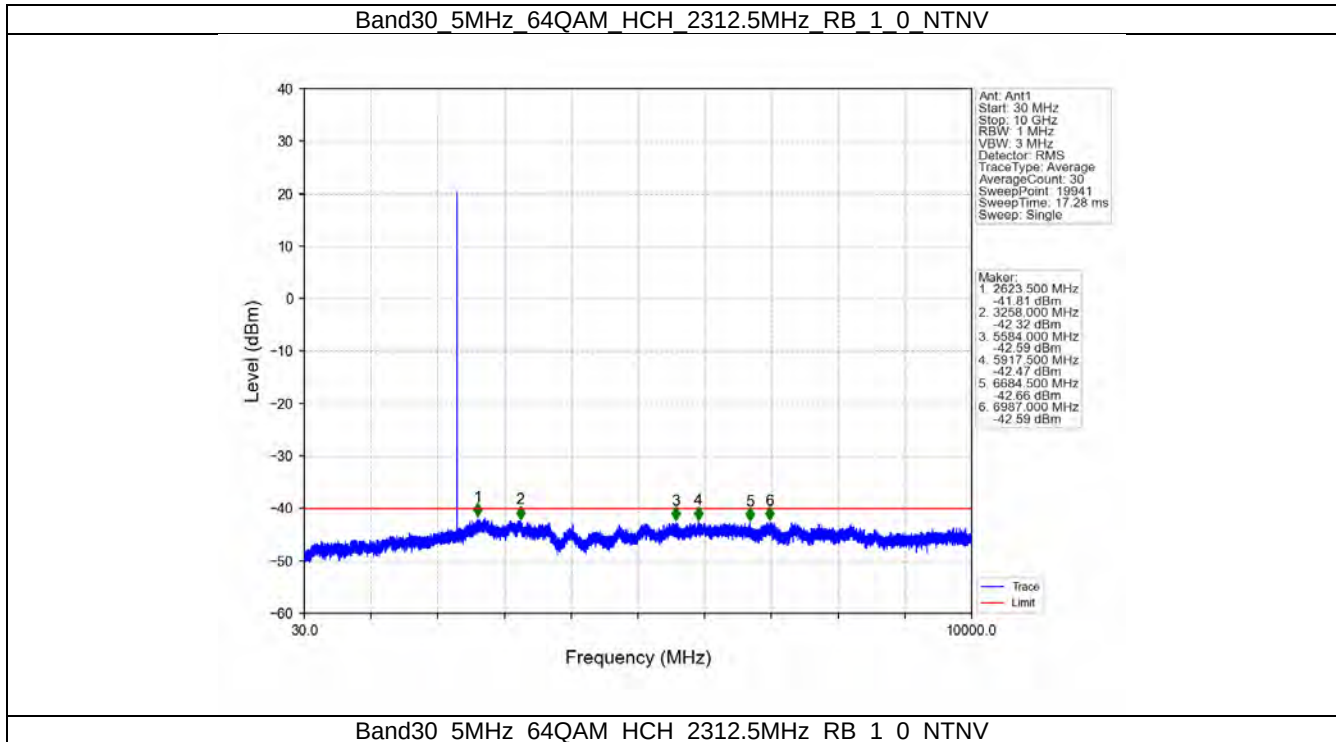


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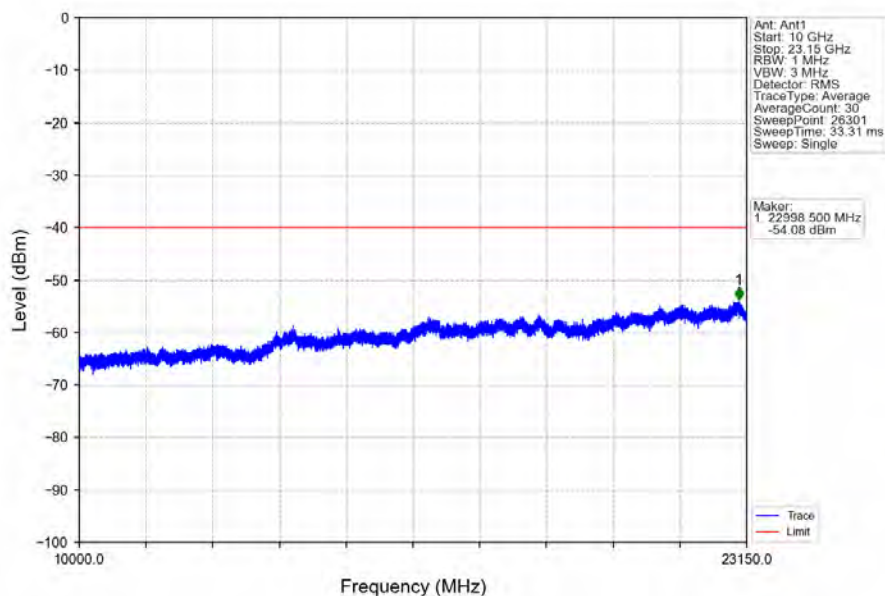


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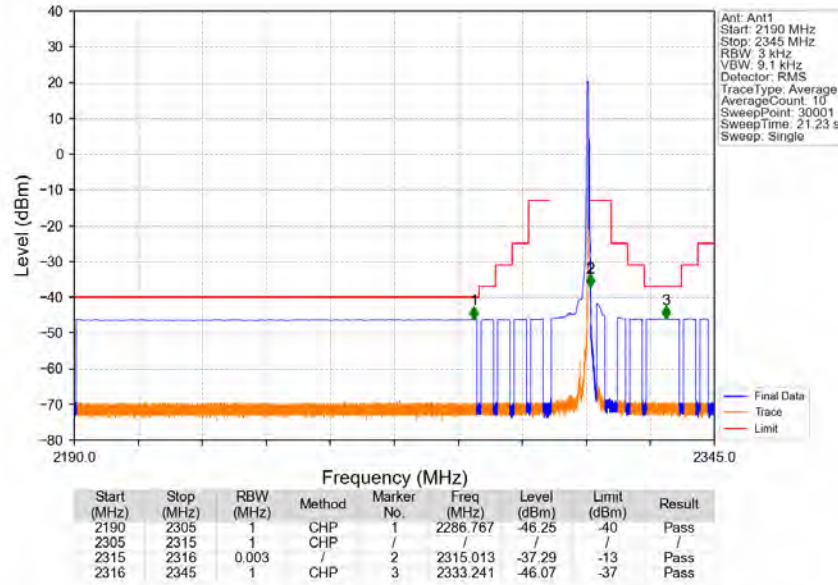
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



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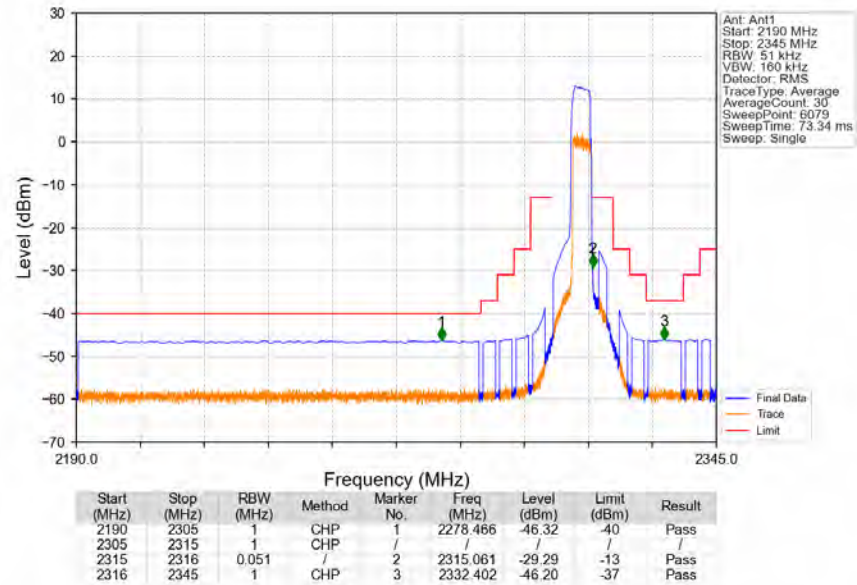


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5.2 B30_10MHz

5.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2310	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2310	1	0	Refer To Test Graph	Pass
		49		Refer To Test Graph	Pass
	2310	50	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
		49		Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	2310	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2310	1	0	Refer To Test Graph	Pass
		49		Refer To Test Graph	Pass
	2310	50	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
		49		Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
64QAM	2310	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2310	1	0	Refer To Test Graph	Pass
		49		Refer To Test Graph	Pass
	2310	50	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
		49		Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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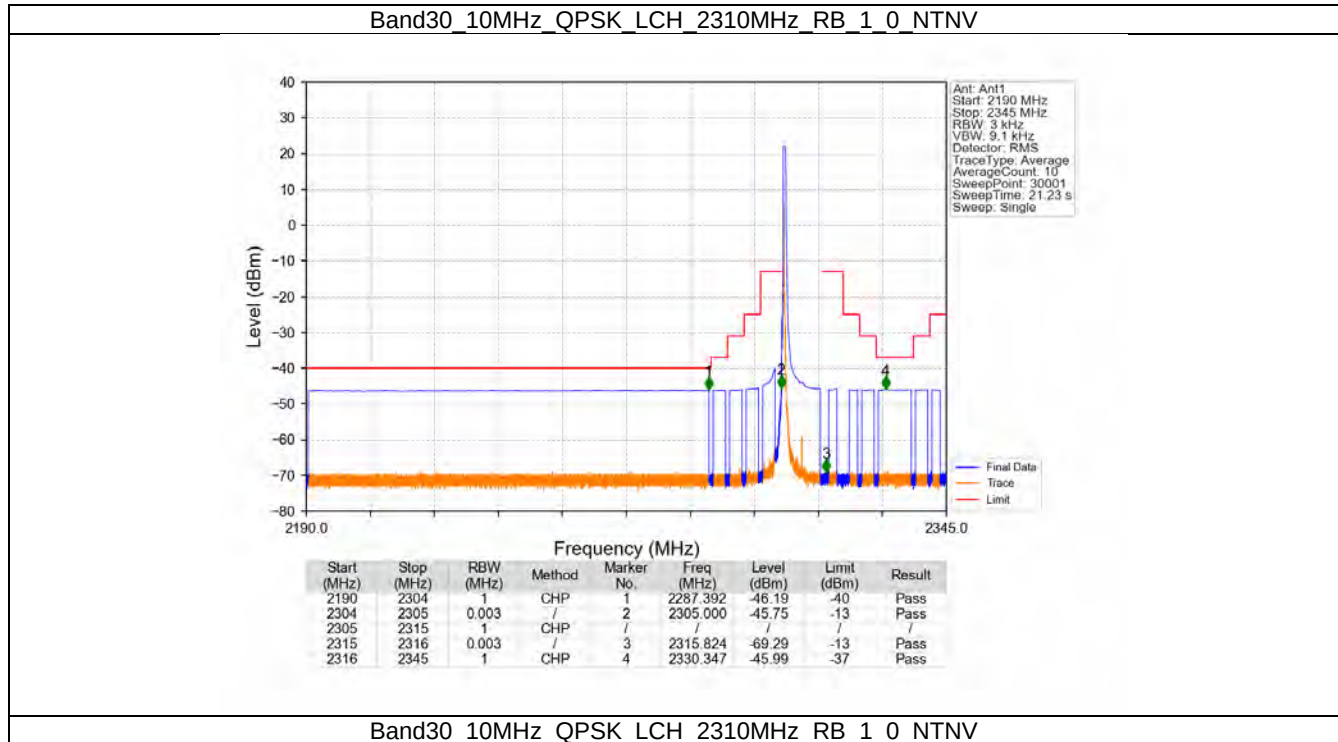
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5.2.2 Test Graph



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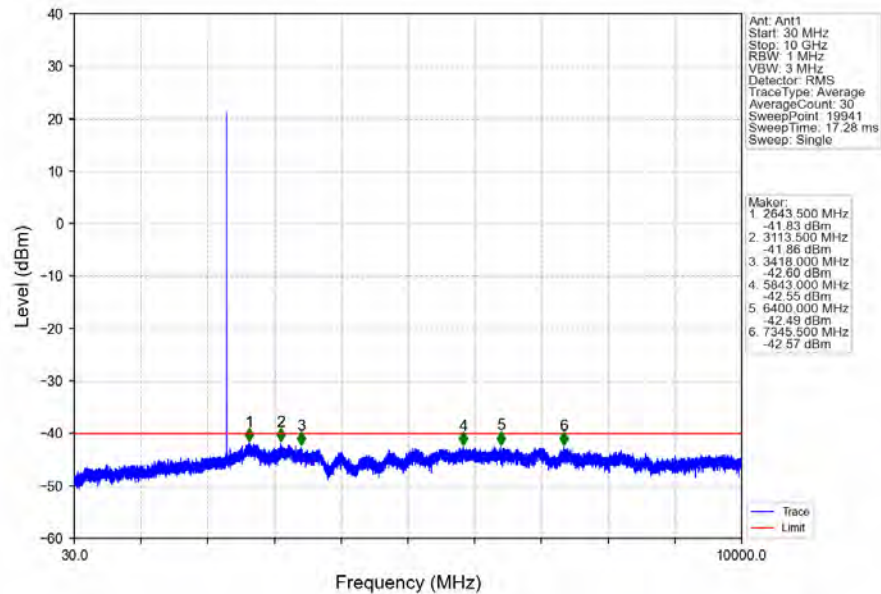


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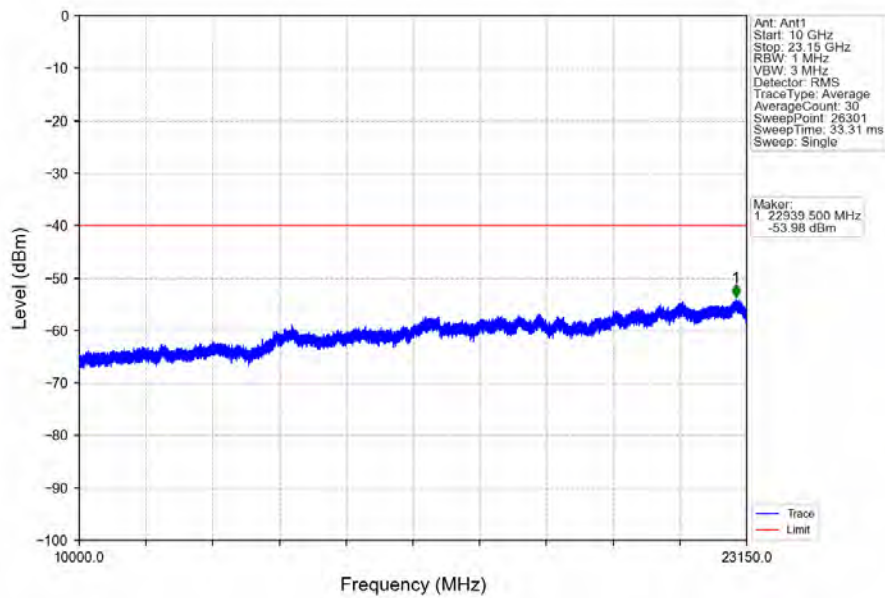
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Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



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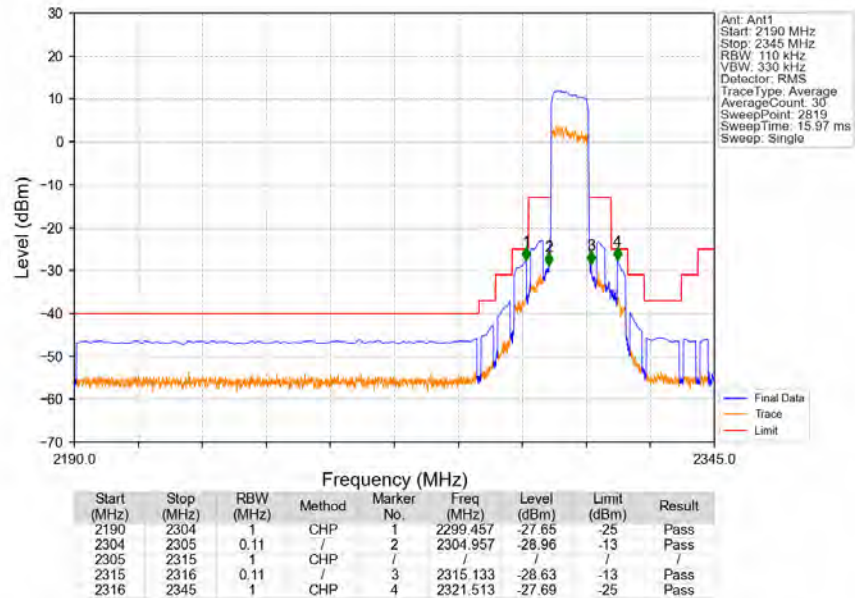


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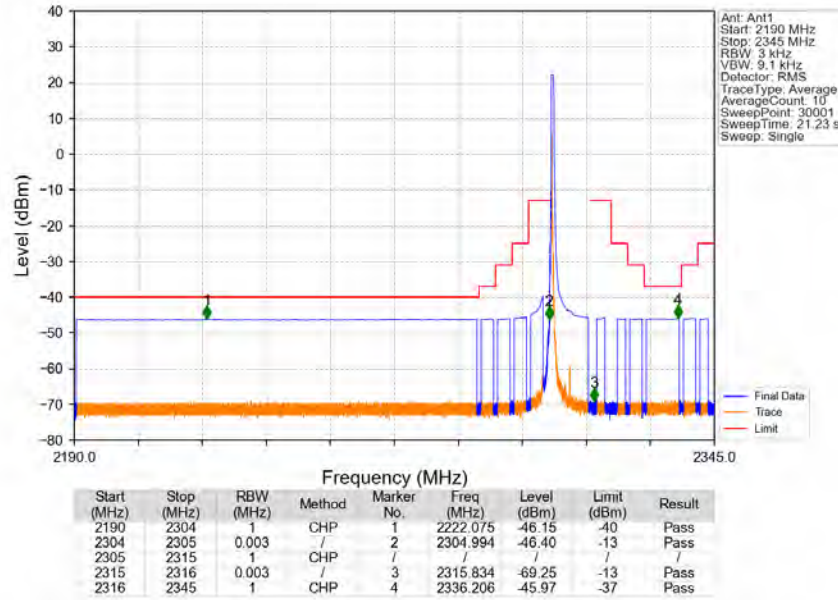
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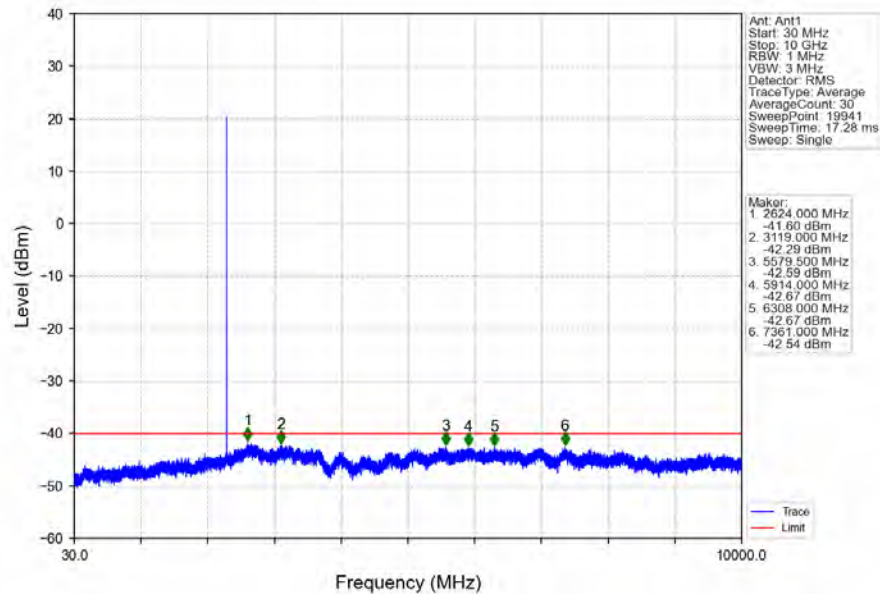


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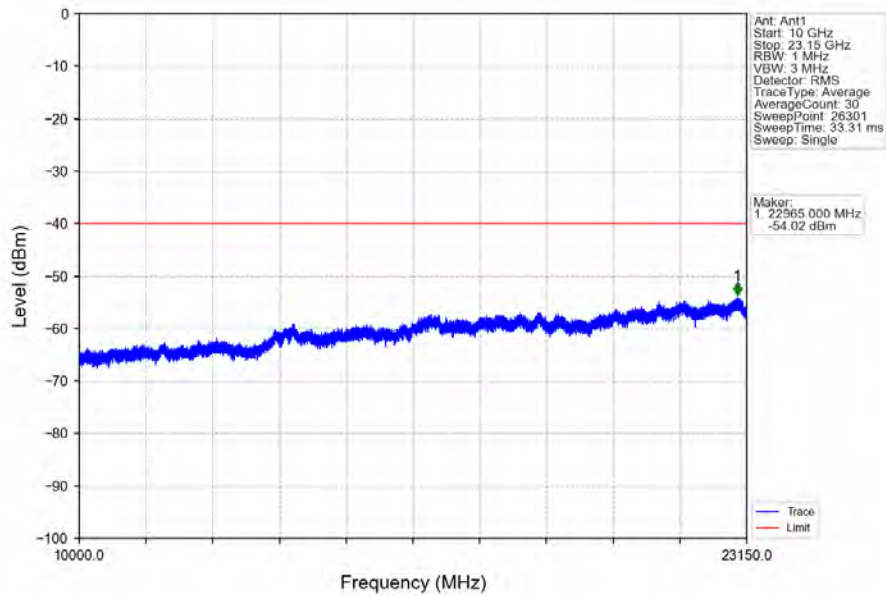
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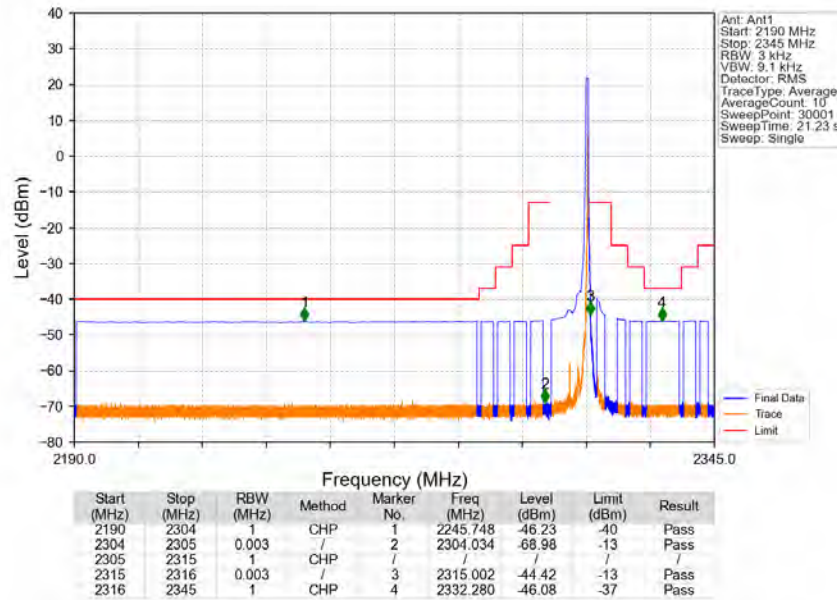


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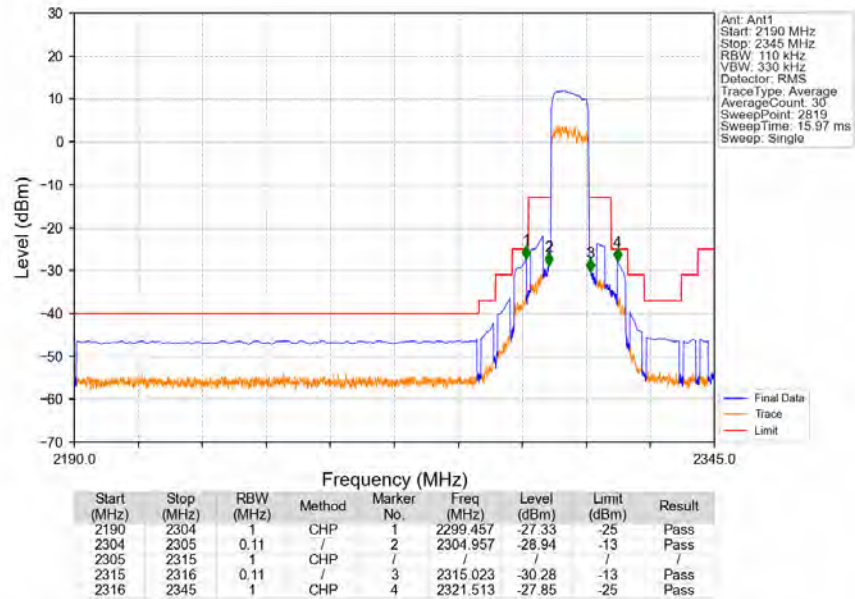
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Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_QPSK_HCH_2310MHz_RB_1_0_NTNV



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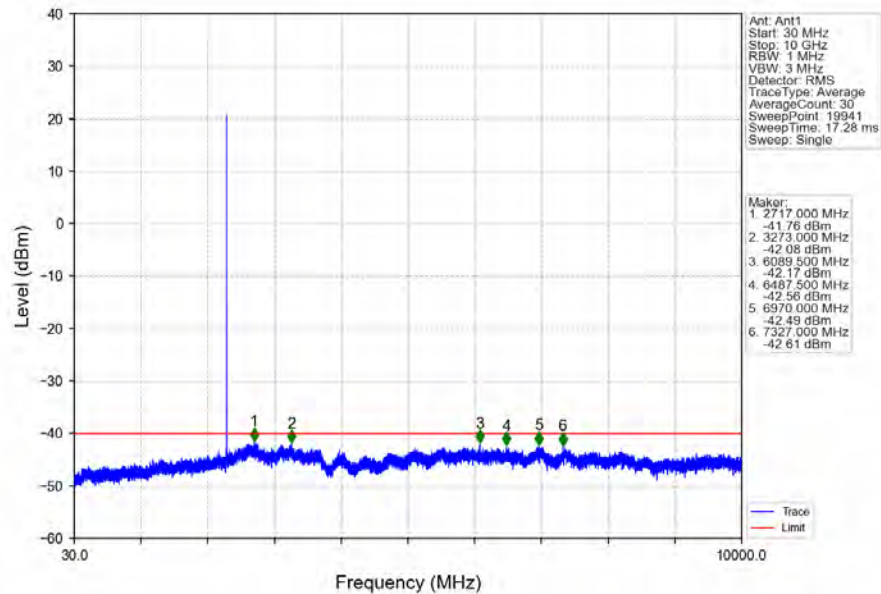


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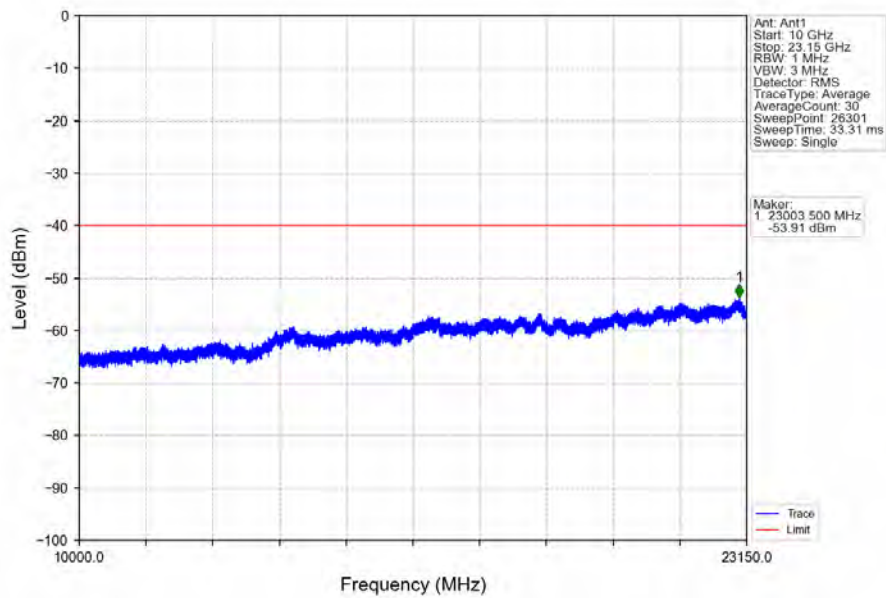
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Band30_10MHz_QPSK_HCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTNV



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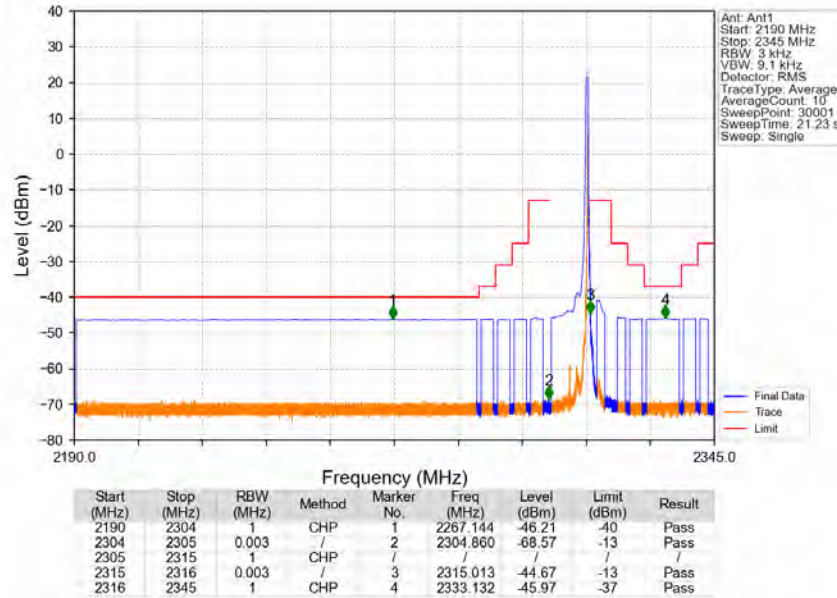


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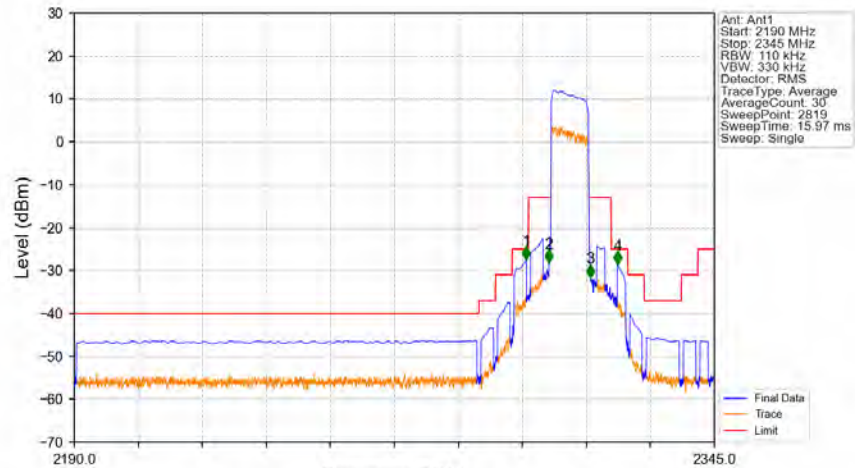
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Band30_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



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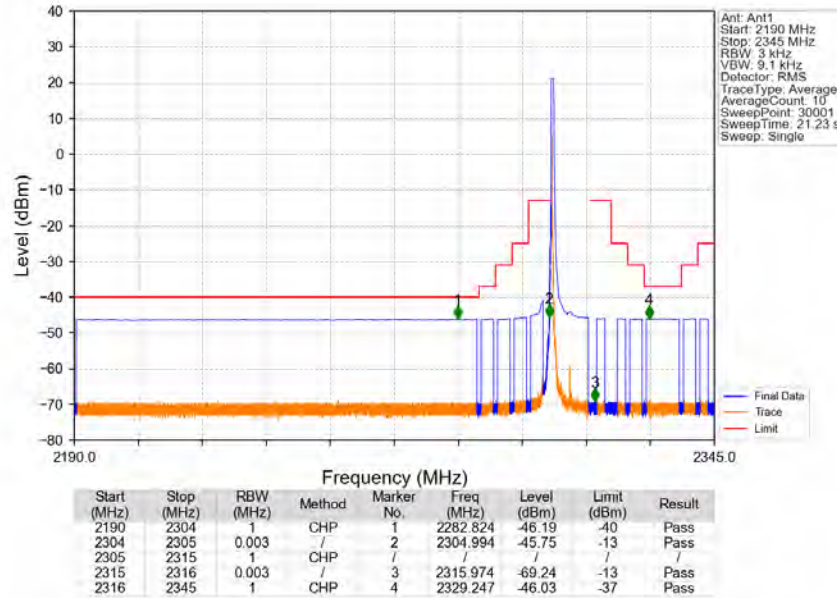


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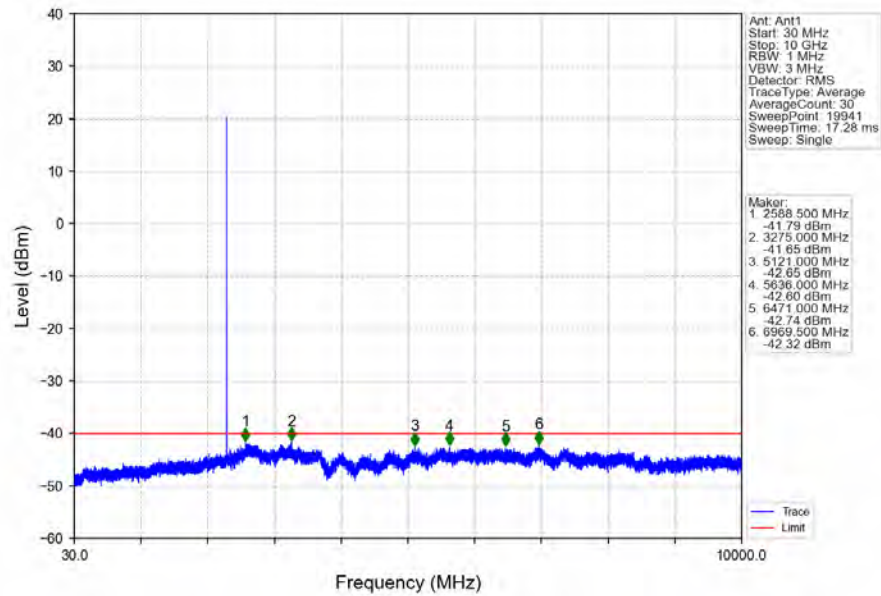
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Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



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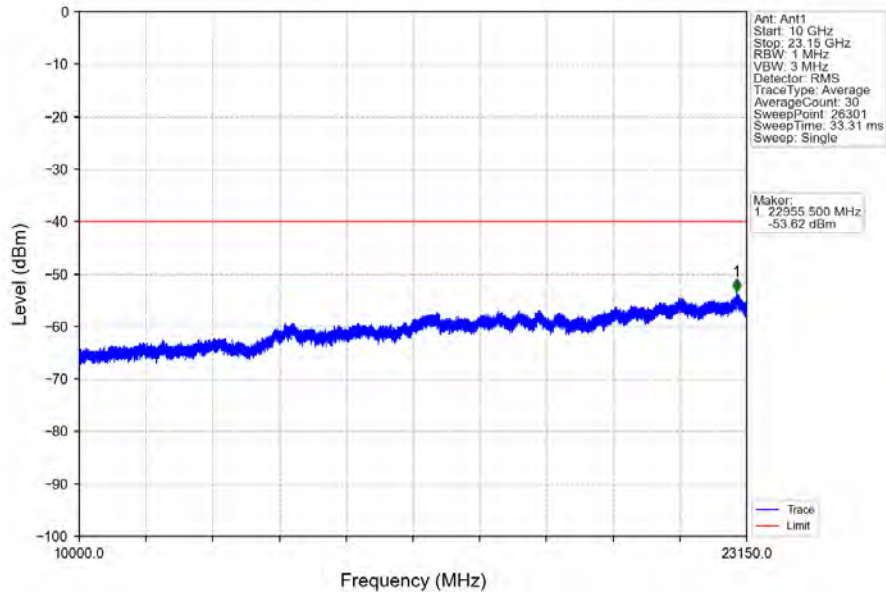


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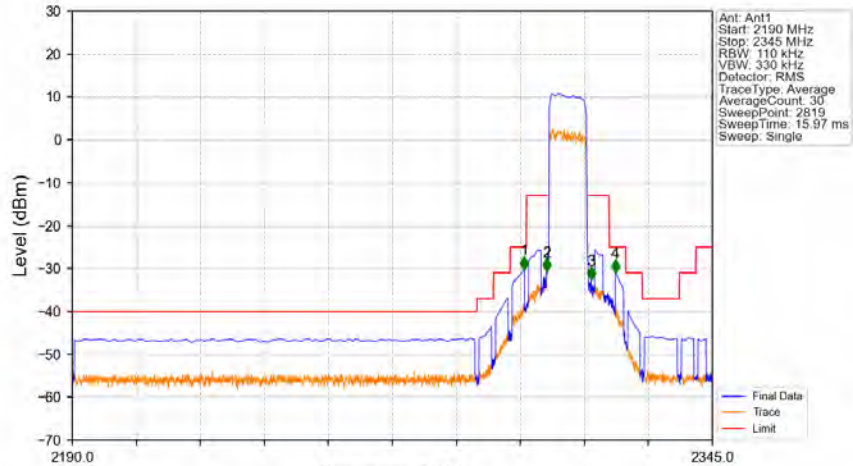
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Band30_10MHz_16QAM_LCH_2310MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.457	-30.26	-25	Pass
2304	2305	0.11	/	2	2304.902	-30.64	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.11	/	3	2315.628	-32.67	-13	Pass
2316	2345	1	CHP	4	2321.513	-30.95	-25	Pass

Band30_10MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



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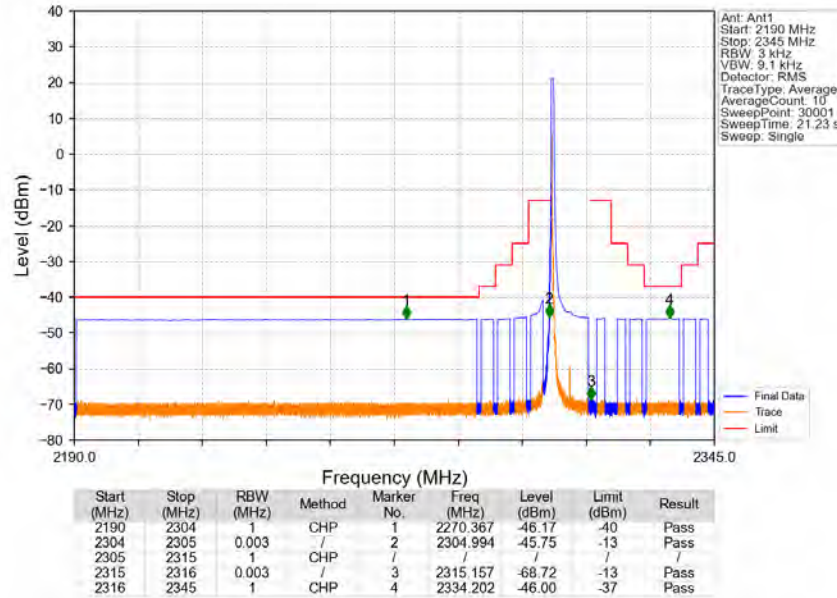


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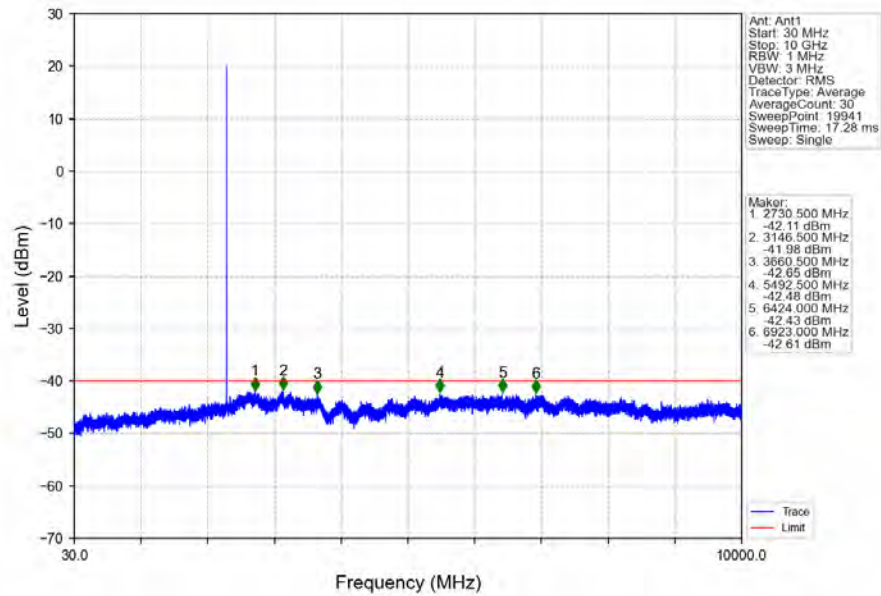
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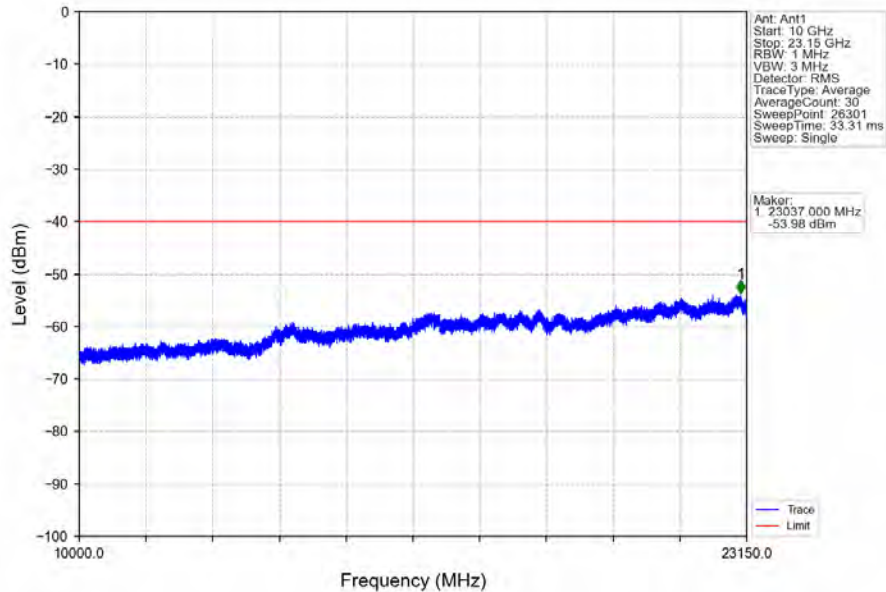


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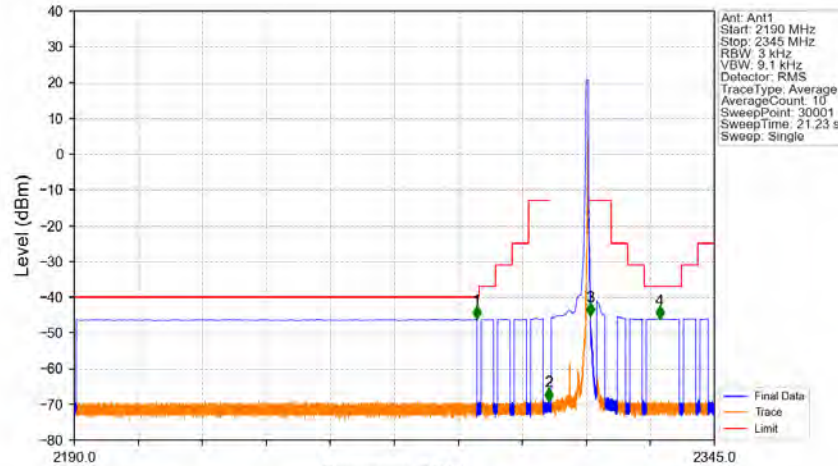
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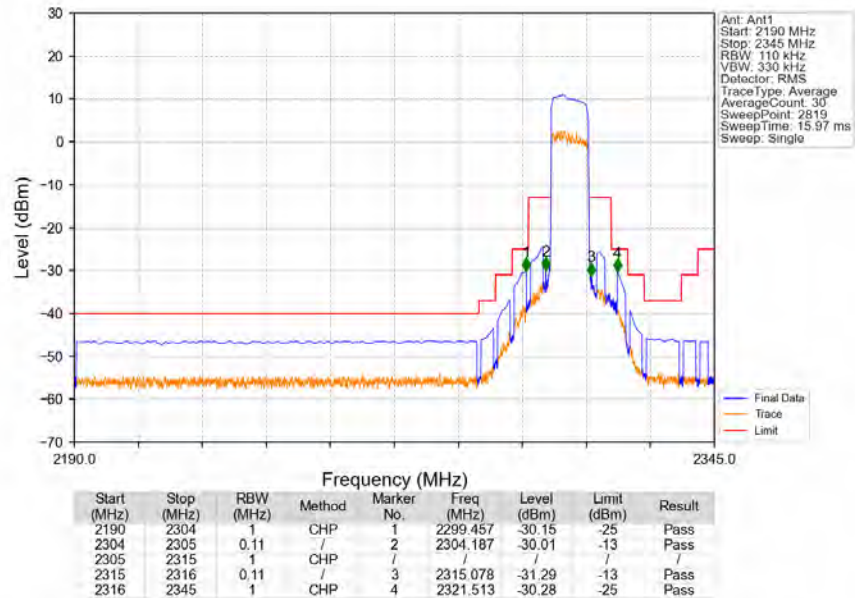


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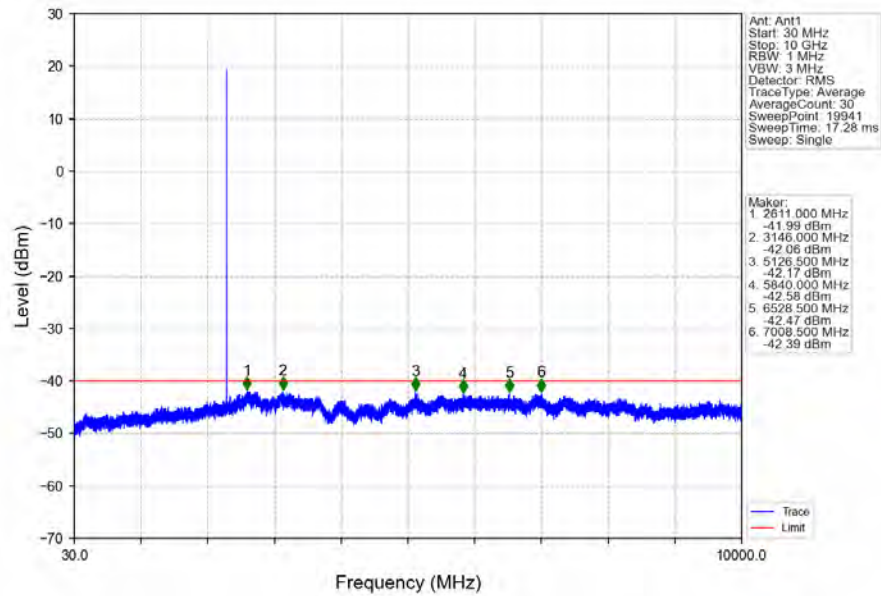
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Band30_10MHz_16QAM_HCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_16QAM_HCH_2310MHz_RB_1_0_NTNV



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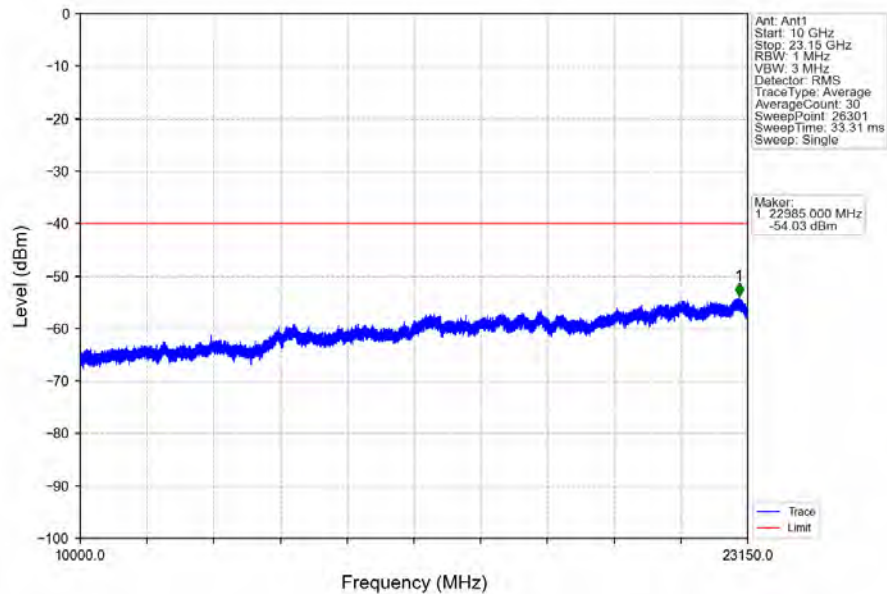


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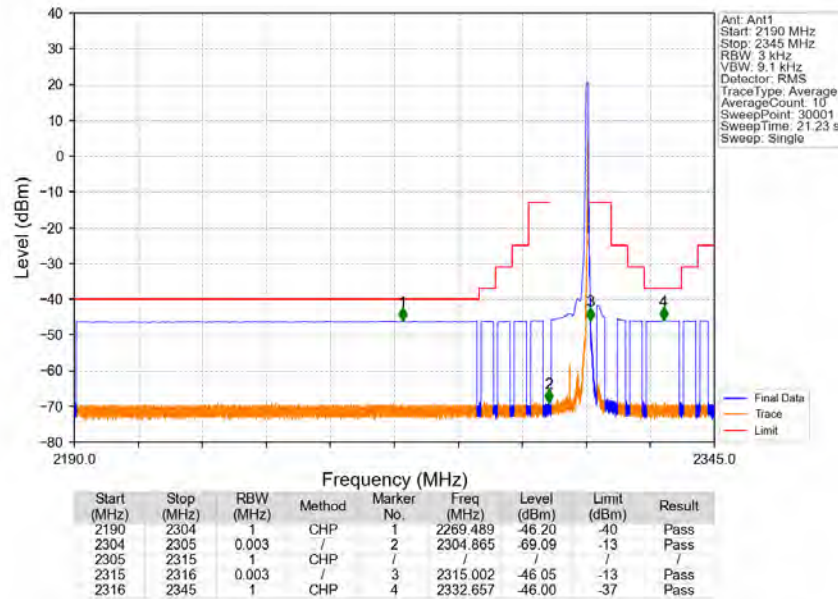
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Band30_10MHz_16QAM_HCH_2310MHz_RB_50_0_NTNV



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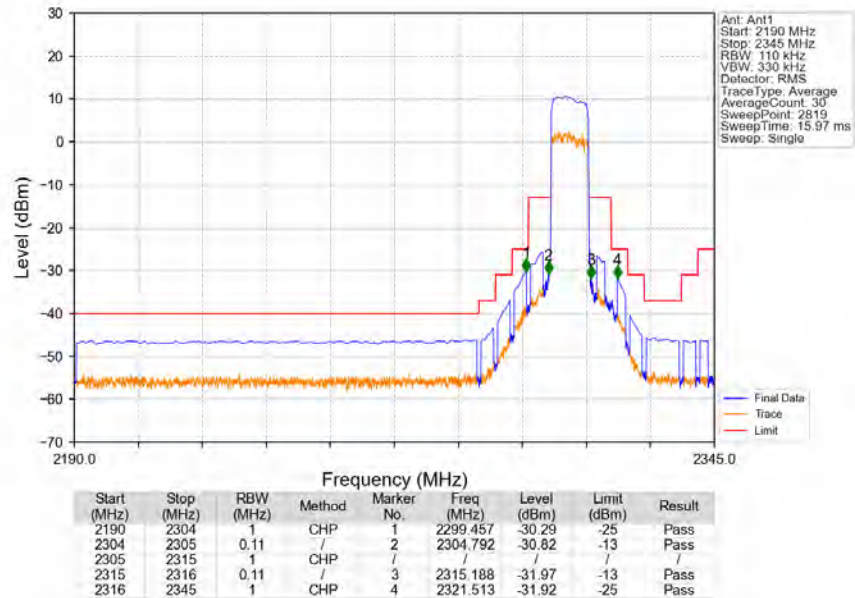


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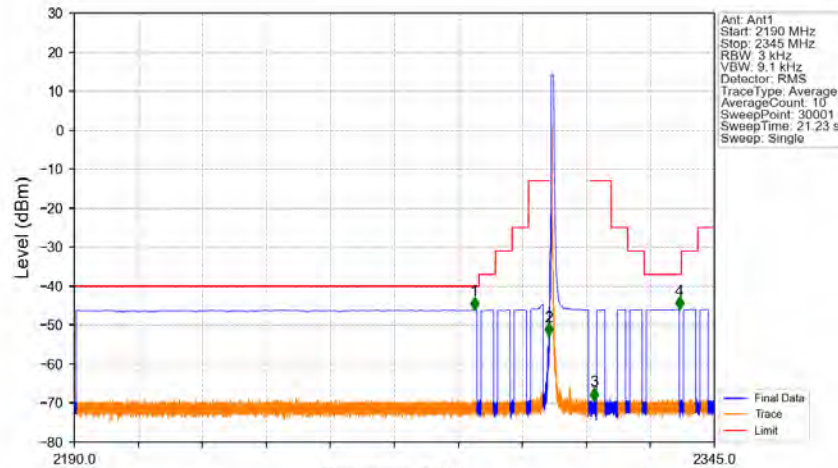
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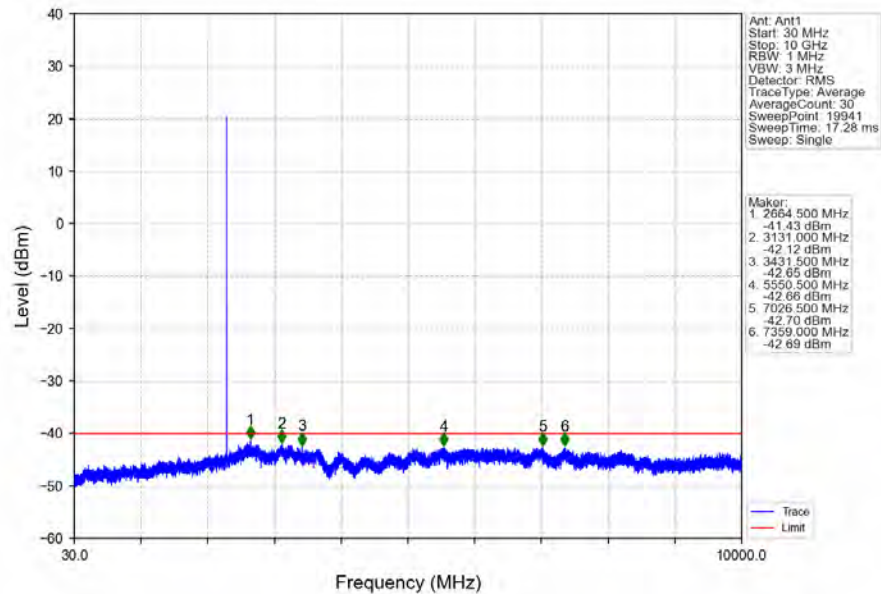


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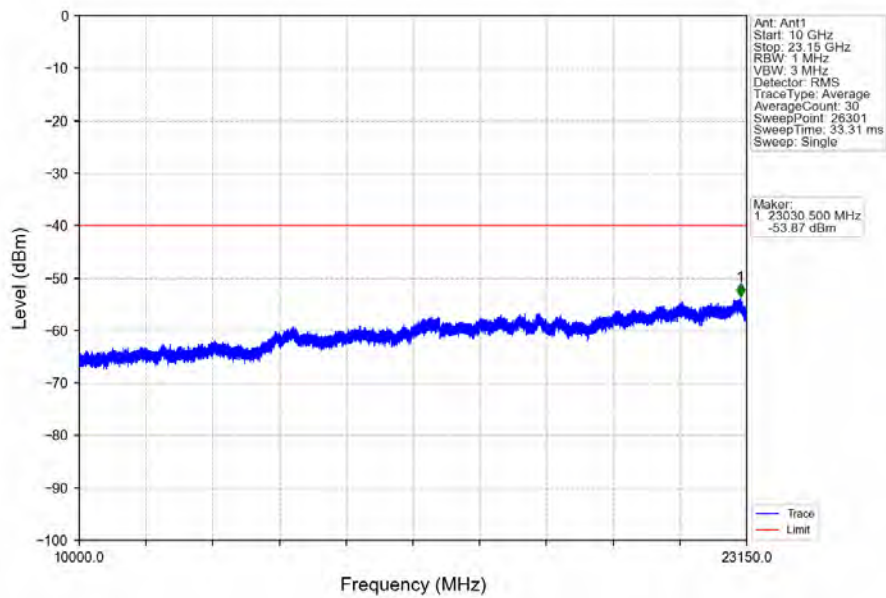
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Band30_10MHz_64QAM_LCH_2310MHz_RB_50_0_NTNV



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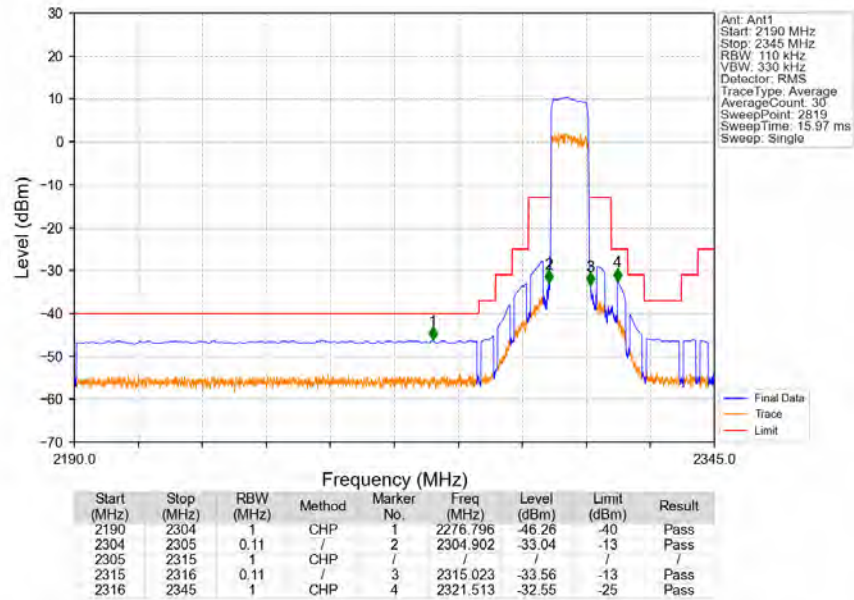


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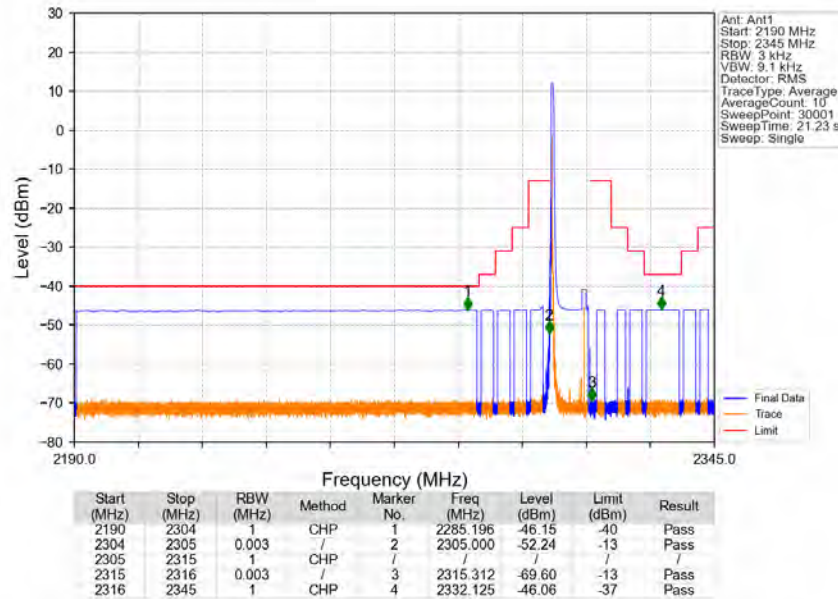
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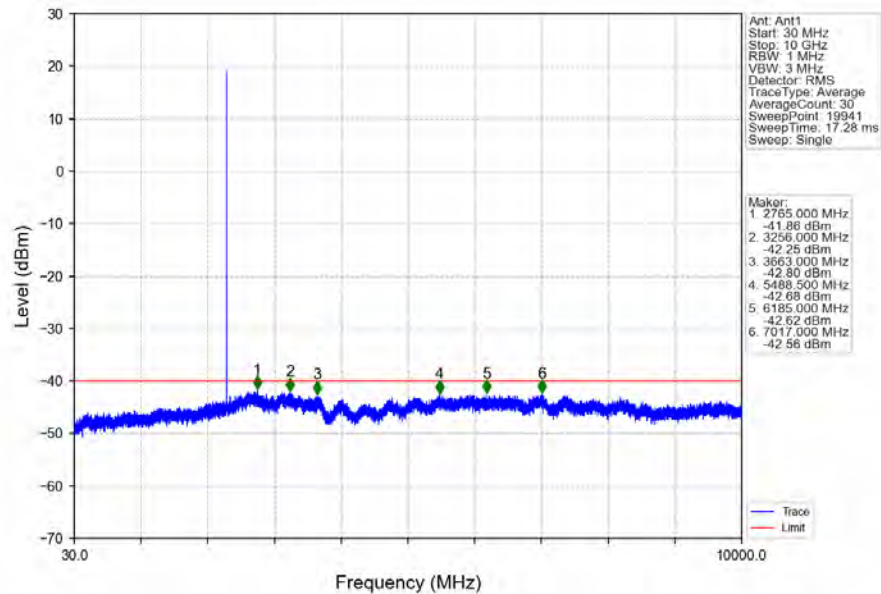


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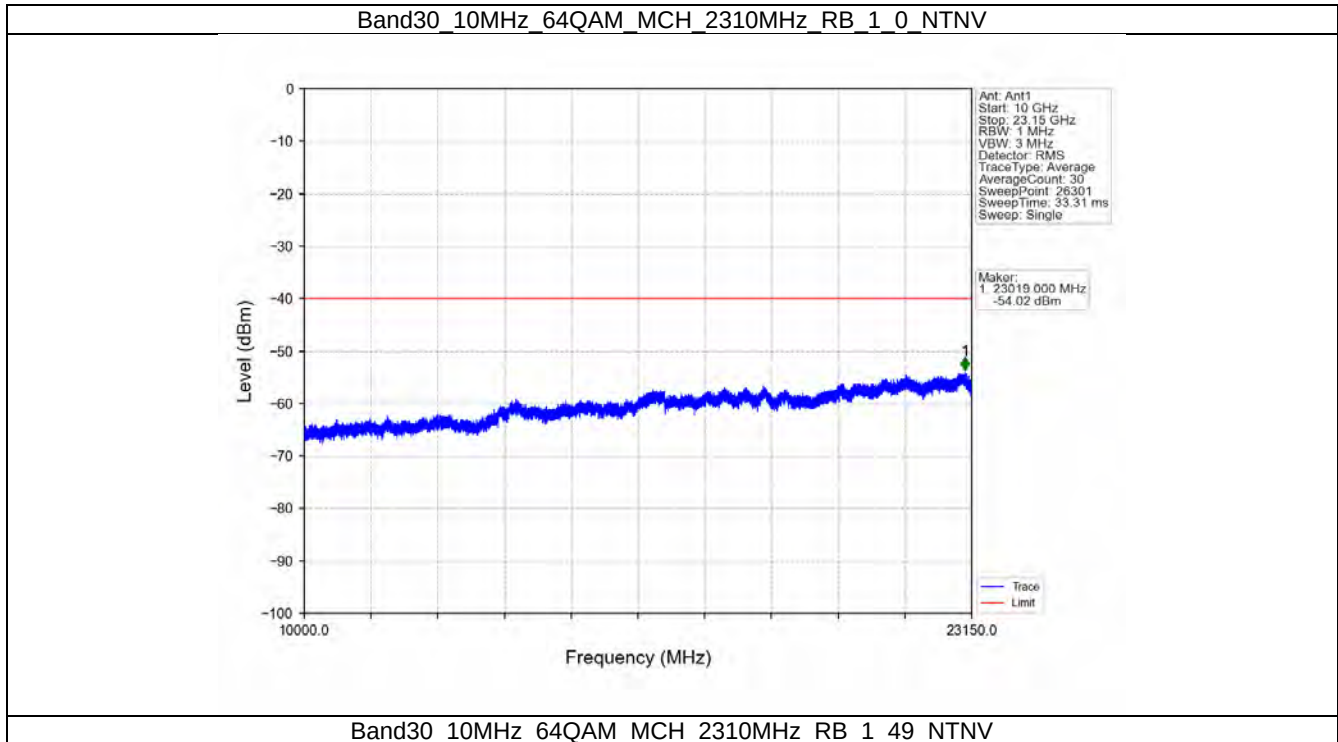


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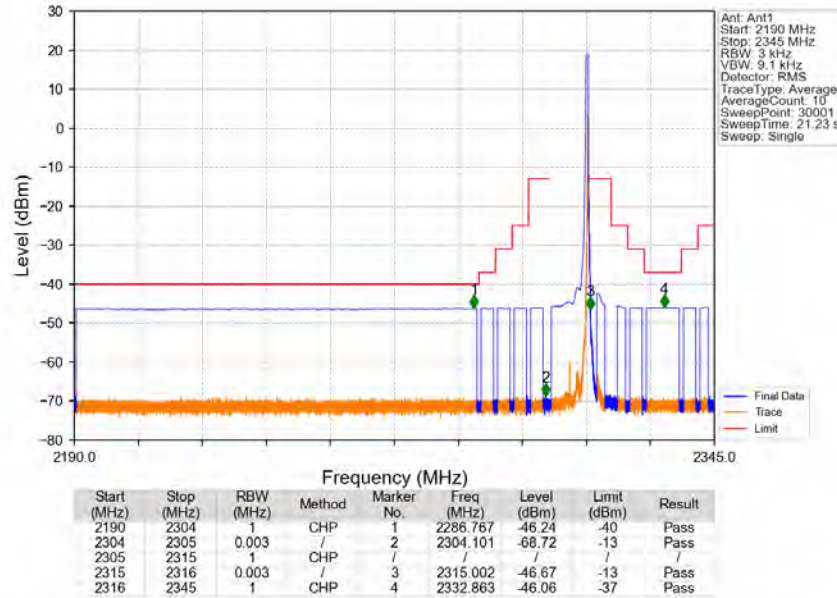


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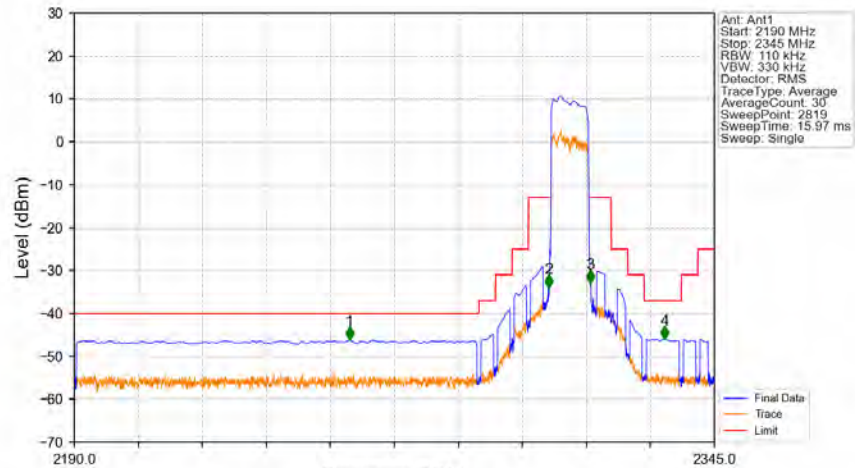
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Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2256.664	-46.22	-40	Pass
2304	2305	0.11	/	2	2304.847	-34.08	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.11	/	3	2315.023	-32.92	-13	Pass
2316	2345	1	CHP	4	2332.954	-45.98	-37	Pass

Band30_10MHz_64QAM_HCH_2310MHz_RB_1_0_NTNV



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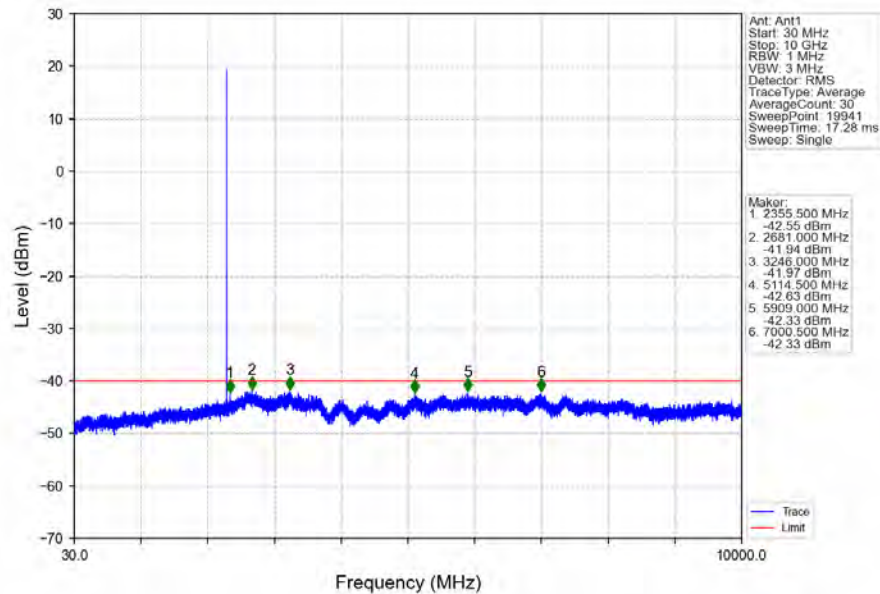


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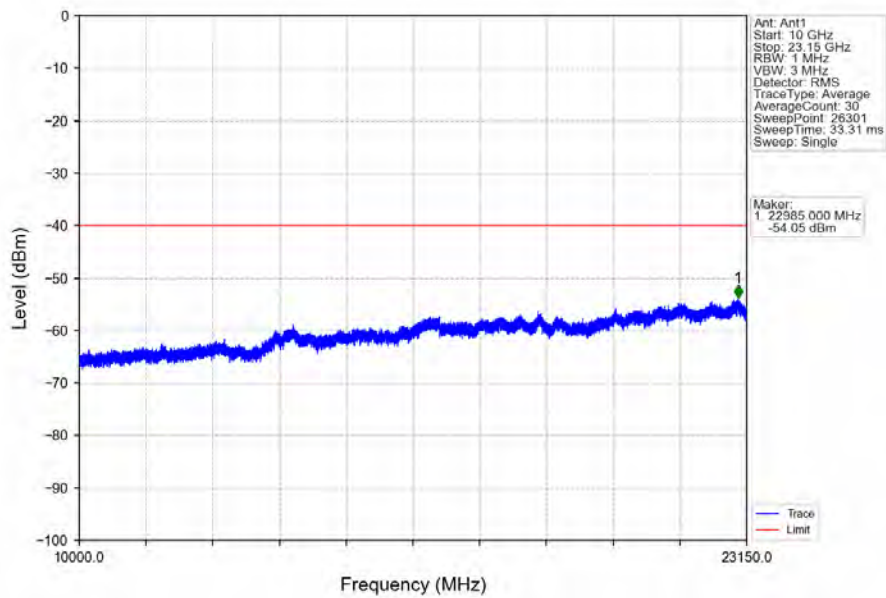
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Band30_10MHz_64QAM_HCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_64QAM_HCH_2310MHz_RB_1_49_NTNV



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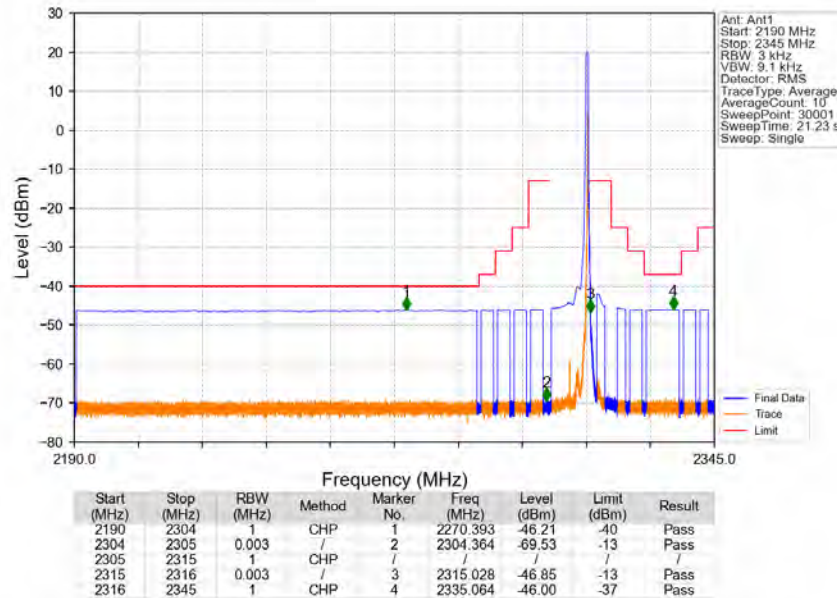


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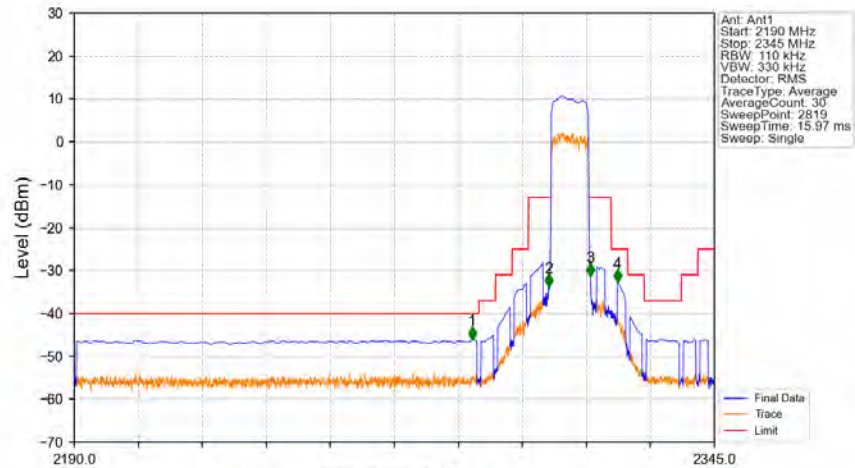
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Band30_10MHz_64QAM_HCH_2310MHz_RB_50_0_NTNV



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6. Field Strength of Spurious Radiation

LTE Band 30-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4610.5	-54.76	-13	-41.76	-60.22	3.94	9.4	Horizontal	Pass
6915.75	-49.95	-13	-36.95	-56.235	4.21	10.49	Horizontal	Pass
9221	-47.64	-13	-34.64	-56.28	4.57	13.21	Horizontal	Pass
4610.5	-53.92	-13	-40.92	-59.38	3.94	9.4	Vertical	Pass
6915.75	-50.34	-13	-37.34	-56.625	4.21	10.49	Vertical	Pass
9221	-47.49	-13	-34.49	-56.13	4.57	13.21	Vertical	Pass

LTE Band 30-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4615.5	-54.96	-13	-41.96	-60.42	3.94	9.4	Horizontal	Pass
6923.25	-48.98	-13	-35.98	-55.265	4.21	10.49	Horizontal	Pass
9231	-46.58	-13	-33.58	-55.22	4.57	13.21	Horizontal	Pass
4615.5	-54.34	-13	-41.34	-59.8	3.94	9.4	Vertical	Pass
6923.25	-50.87	-13	-37.87	-57.155	4.21	10.49	Vertical	Pass
9231	-47.18	-13	-34.18	-55.82	4.57	13.21	Vertical	Pass

LTE Band 30-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4620.5	-56.11	-13	-43.11	-61.57	3.94	9.4	Horizontal	Pass
6930.75	-50.7	-13	-37.7	-56.985	4.21	10.49	Horizontal	Pass
9241	-46.77	-13	-33.77	-55.41	4.57	13.21	Horizontal	Pass
4620.5	-55.77	-13	-42.77	-61.23	3.94	9.4	Vertical	Pass
6930.75	-49.57	-13	-36.57	-55.855	4.21	10.49	Vertical	Pass
9241	-46.56	-13	-33.56	-55.2	4.57	13.21	Vertical	Pass



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LTE Band 30-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4611	-54.32	-13	-41.32	-59.78	3.94	9.4	Horizontal	Pass
6916.5	-49.56	-13	-36.56	-55.845	4.21	10.49	Horizontal	Pass
9222	-47.74	-13	-34.74	-56.38	4.57	13.21	Horizontal	Pass
4611	-54.04	-13	-41.04	-59.5	3.94	9.4	Vertical	Pass
6916.5	-50.28	-13	-37.28	-56.565	4.21	10.49	Vertical	Pass
9222	-46.85	-13	-33.85	-55.49	4.57	13.21	Vertical	Pass

---End of Attachment---



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