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Appendix B.15

LTE Band 30



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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.7	23.68	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.56	23.54	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.61	23.59	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.69	22.67	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.8	23.78	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.77	23.75	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.49	23.47	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.54	22.52	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.95	23.93	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.52	23.5	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.36	23.34	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.58	22.56	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22	22.98	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.7	22.68	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.54	22.52	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.68	21.66	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.89	22.87	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.74	22.72	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.58	22.56	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.56	21.54	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.58	22.56	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.72	22.7	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.6	22.58	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.66	21.64	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.92	21.9	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.8	21.78	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.84	21.82	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	19.72	20.7	23.98	PASS



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Band30	5MHz	64QAM	27710	1RB#0	20.89	21.87	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.81	21.79	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.63	21.61	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.61	20.59	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.78	21.76	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.92	21.9	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.64	21.62	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.62	20.6	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.73	18.71	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	18.02	19	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.68	18.66	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	17.68	18.66	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.62	18.6	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	17.72	18.7	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.44	18.42	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.52	18.5	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.57	18.55	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	17.7	18.68	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.45	18.43	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.64	18.62	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.68	23.66	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.61	23.59	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.53	23.51	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.63	22.61	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.99	22.97	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.77	22.75	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.58	22.56	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.62	21.6	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.97	21.95	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.88	21.86	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.65	21.63	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.61	20.59	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	17.66	18.64	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	17.8	18.78	23.98	PASS



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Band30	10MHz	256QAM	27710	1RB#49	17.61	18.59	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	17.67	18.65	23.98	PASS

1.2 B30_5MHz_EIRP/10MHz

1.2.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/10MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	22.6	0.98	23.58	<=23.98	Pass
			13	22.94	0.98	23.92	<=23.98	Pass
			24	22.74	0.98	23.72	<=23.98	Pass
		12	0	21.64	0.98	22.62	<=23.98	Pass
			6	21.87	0.98	22.85	<=23.98	Pass
			13	21.72	0.98	22.7	<=23.98	Pass
		25	0	21.8	0.98	22.78	<=23.98	Pass
	2310	1	0	22.87	0.98	23.85	<=23.98	Pass
			13	22.93	0.98	23.91	<=23.98	Pass
			24	22.75	0.98	23.73	<=23.98	Pass
		12	0	21.86	0.98	22.84	<=23.98	Pass
			6	21.83	0.98	22.81	<=23.98	Pass
			13	21.78	0.98	22.76	<=23.98	Pass
		25	0	21.81	0.98	22.79	<=23.98	Pass
	2312.5	1	0	22.67	0.98	23.65	<=23.98	Pass
			13	22.71	0.98	23.69	<=23.98	Pass
			24	22.71	0.98	23.69	<=23.98	Pass
		12	0	21.49	0.98	22.47	<=23.98	Pass
			6	21.79	0.98	22.77	<=23.98	Pass
			13	21.97	0.98	22.95	<=23.98	Pass
		25	0	21.82	0.98	22.8	<=23.98	Pass
16QAM	2307.5	1	0	22.05	0.98	23.03	<=23.98	Pass
			13	21.65	0.98	22.63	<=23.98	Pass
			24	21.61	0.98	22.59	<=23.98	Pass
		12	0	20.77	0.98	21.75	<=23.98	Pass
			6	21.02	0.98	22	<=23.98	Pass
			13	20.87	0.98	21.85	<=23.98	Pass
		25	0	20.93	0.98	21.91	<=23.98	Pass
	2310	1	0	21.75	0.98	22.73	<=23.98	Pass
			13	22.37	0.98	23.35	<=23.98	Pass
			24	22.09	0.98	23.07	<=23.98	Pass
		12	0	20.97	0.98	21.95	<=23.98	Pass
			6	20.71	0.98	21.69	<=23.98	Pass
			13	20.91	0.98	21.89	<=23.98	Pass
		25	0	20.77	0.98	21.75	<=23.98	Pass
	2312.5	1	0	22.09	0.98	23.07	<=23.98	Pass



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64QAM			13	21.92	0.98	22.9	<=23.98	Pass
			24	21.95	0.98	22.93	<=23.98	Pass
		12	0	20.65	0.98	21.63	<=23.98	Pass
			6	21.07	0.98	22.05	<=23.98	Pass
			13	20.91	0.98	21.89	<=23.98	Pass
		25	0	20.73	0.98	21.71	<=23.98	Pass
			0	20.83	0.98	21.81	<=23.98	Pass
			13	21.24	0.98	22.22	<=23.98	Pass
		12	24	21.01	0.98	21.99	<=23.98	Pass
			0	19.89	0.98	20.87	<=23.98	Pass
64QAM	2307.5	1	6	20.17	0.98	21.15	<=23.98	Pass
			13	19.73	0.98	20.71	<=23.98	Pass
			25	0	19.72	20.7	<=23.98	Pass
		12	0	21.07	0.98	22.05	<=23.98	Pass
			13	20.96	0.98	21.94	<=23.98	Pass
			24	20.87	0.98	21.85	<=23.98	Pass
		25	0	19.84	0.98	20.82	<=23.98	Pass
			6	19.8	0.98	20.78	<=23.98	Pass
			13	19.63	0.98	20.61	<=23.98	Pass
		12	0	19.86	0.98	20.84	<=23.98	Pass
			0	20.91	0.98	21.89	<=23.98	Pass
			13	20.7	0.98	21.68	<=23.98	Pass
256QAM	2307.5	1	24	20.87	0.98	21.85	<=23.98	Pass
			0	19.74	0.98	20.72	<=23.98	Pass
			6	19.62	0.98	20.6	<=23.98	Pass
		12	13	19.57	0.98	20.55	<=23.98	Pass
			25	0	19.73	20.71	<=23.98	Pass
		25	0	17.8	0.98	18.78	<=23.98	Pass
			13	17.92	0.98	18.9	<=23.98	Pass
			24	18	0.98	18.98	<=23.98	Pass
		12	0	17.76	0.98	18.74	<=23.98	Pass
			6	18.03	0.98	19.01	<=23.98	Pass
			13	17.86	0.98	18.84	<=23.98	Pass
		25	0	17.78	0.98	18.76	<=23.98	Pass
256QAM	2310	1	0	17.95	0.98	18.93	<=23.98	Pass
			13	18.06	0.98	19.04	<=23.98	Pass
			24	18.01	0.98	18.99	<=23.98	Pass
		12	0	17.9	0.98	18.88	<=23.98	Pass
			6	18.07	0.98	19.05	<=23.98	Pass
			13	17.77	0.98	18.75	<=23.98	Pass
		25	0	17.85	0.98	18.83	<=23.98	Pass
			0	17.79	0.98	18.77	<=23.98	Pass
			13	17.79	0.98	18.77	<=23.98	Pass
		12	24	17.72	0.98	18.7	<=23.98	Pass
			0	18.01	0.98	18.99	<=23.98	Pass
			6	17.72	0.98	18.7	<=23.98	Pass
256QAM	2312.5	1	13	17.75	0.98	18.73	<=23.98	Pass
			25	0	17.82	18.8	<=23.98	Pass
		12	0	17.82	0.98	18.8	<=23.98	Pass
			6	17.82	0.98	18.8	<=23.98	Pass
			13	17.82	0.98	18.8	<=23.98	Pass
		25	0	17.82	0.98	18.8	<=23.98	Pass
			6	17.82	0.98	18.8	<=23.98	Pass
			13	17.82	0.98	18.8	<=23.98	Pass
		12	0	17.82	0.98	18.8	<=23.98	Pass
			6	17.82	0.98	18.8	<=23.98	Pass
			13	17.82	0.98	18.8	<=23.98	Pass
		25	0	17.82	0.98	18.8	<=23.98	Pass

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



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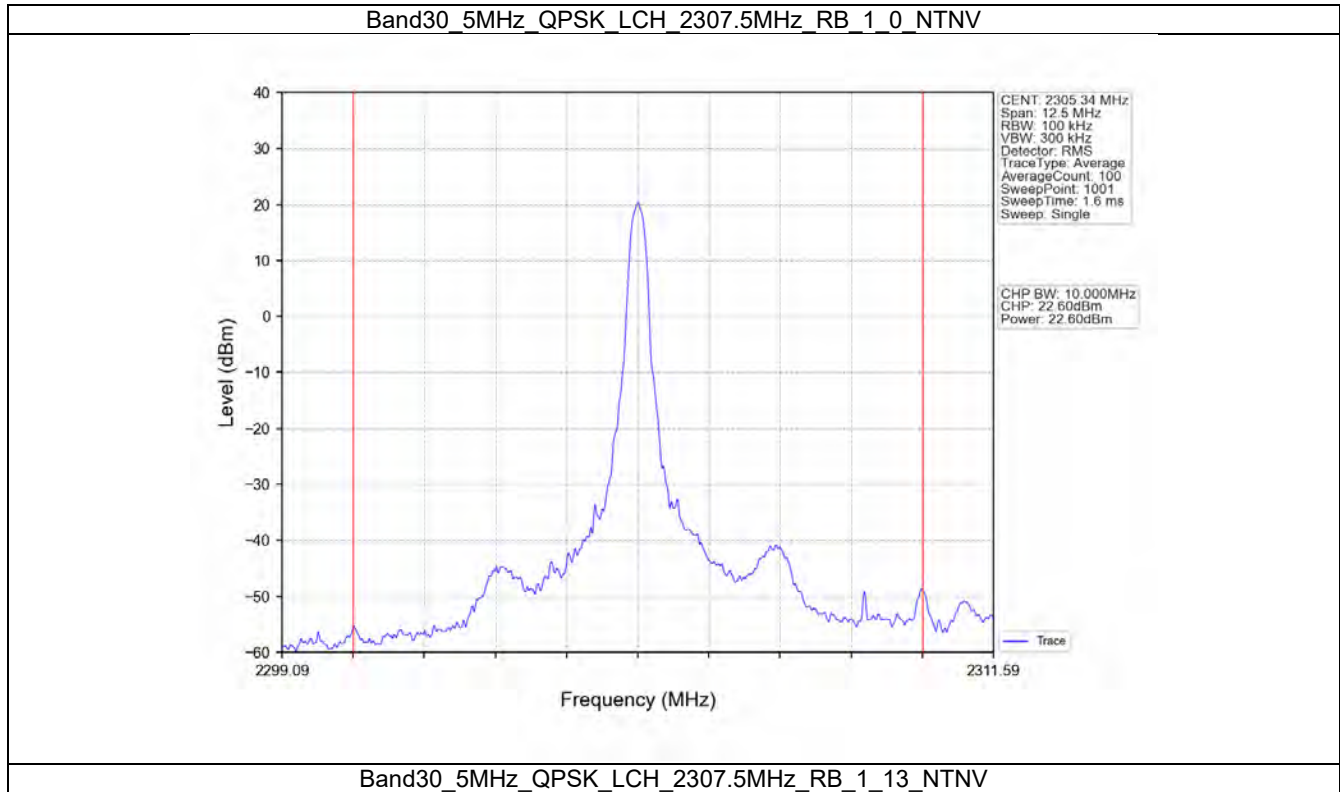
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1.2.2 Test Graph



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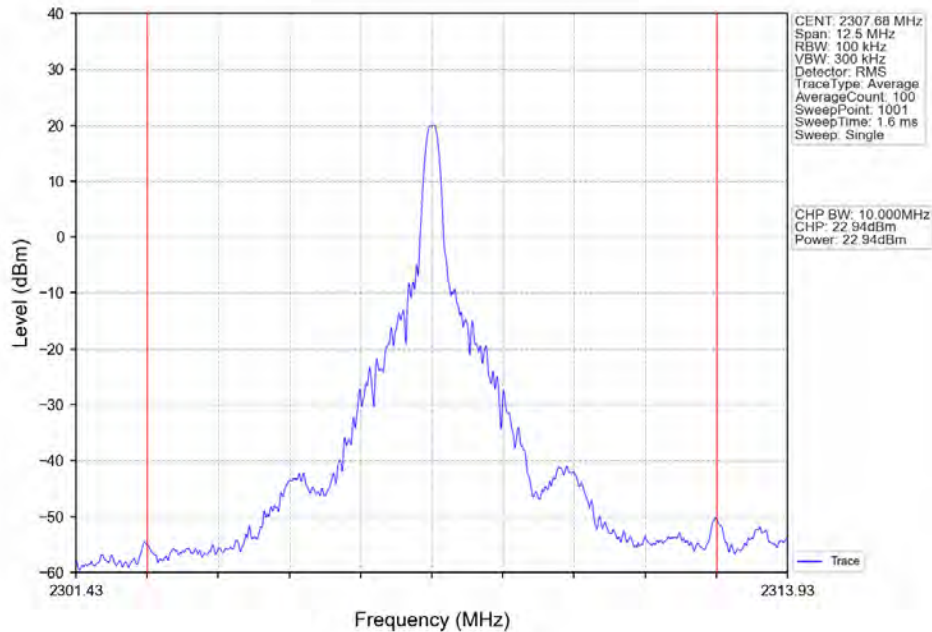
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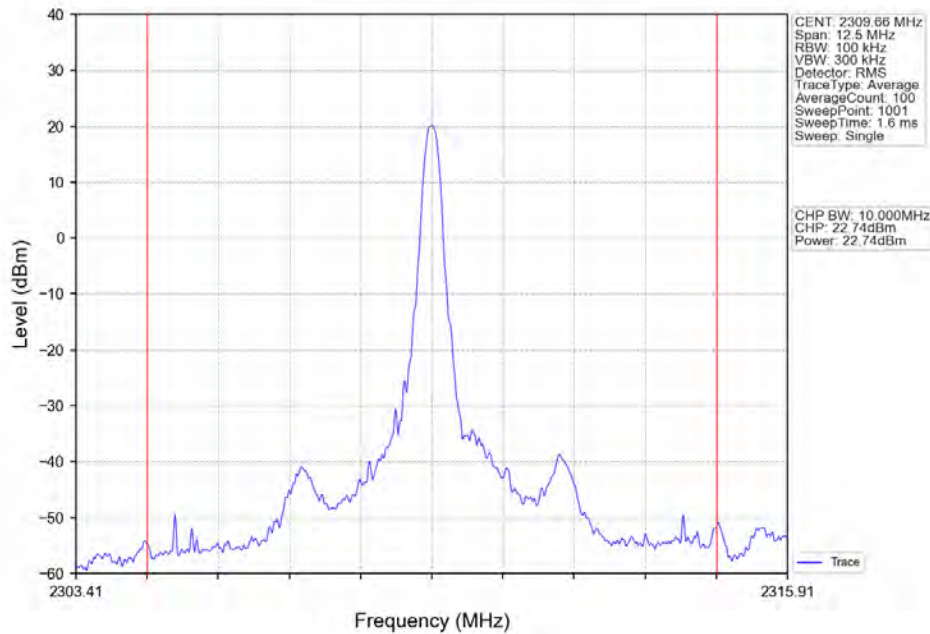
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Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_24_NTNV



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_0_NTNV



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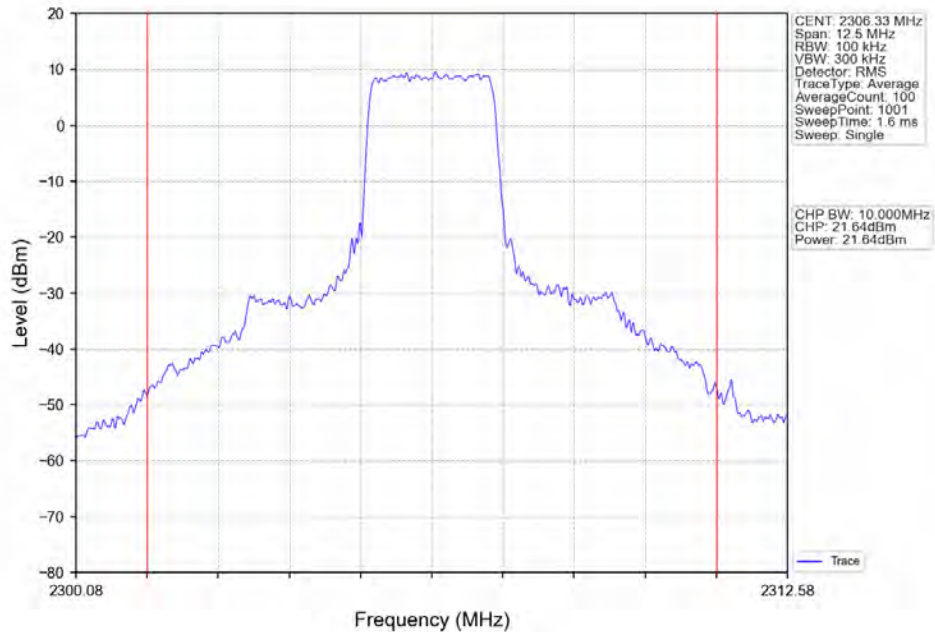
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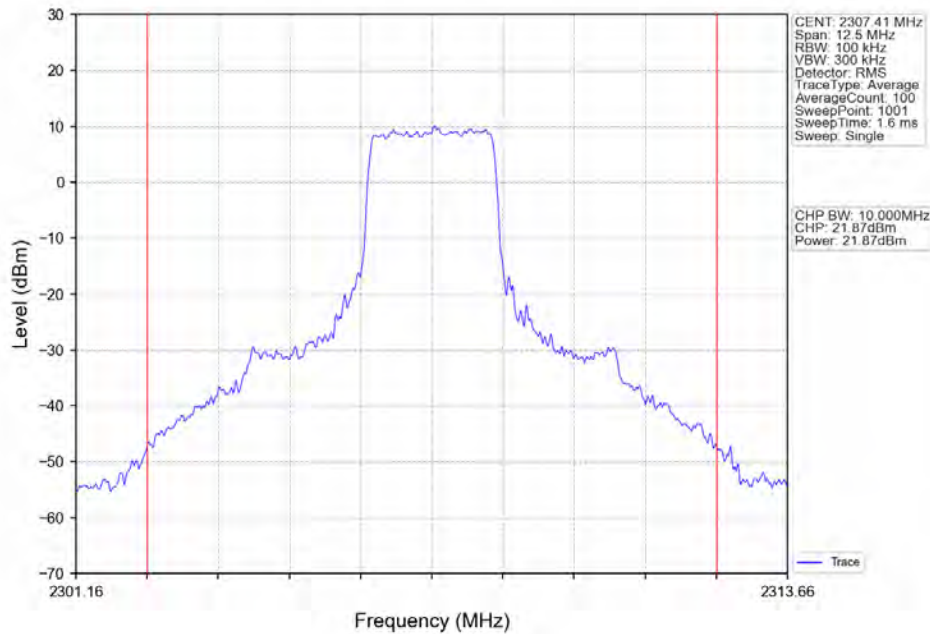
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Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_13_NTNV



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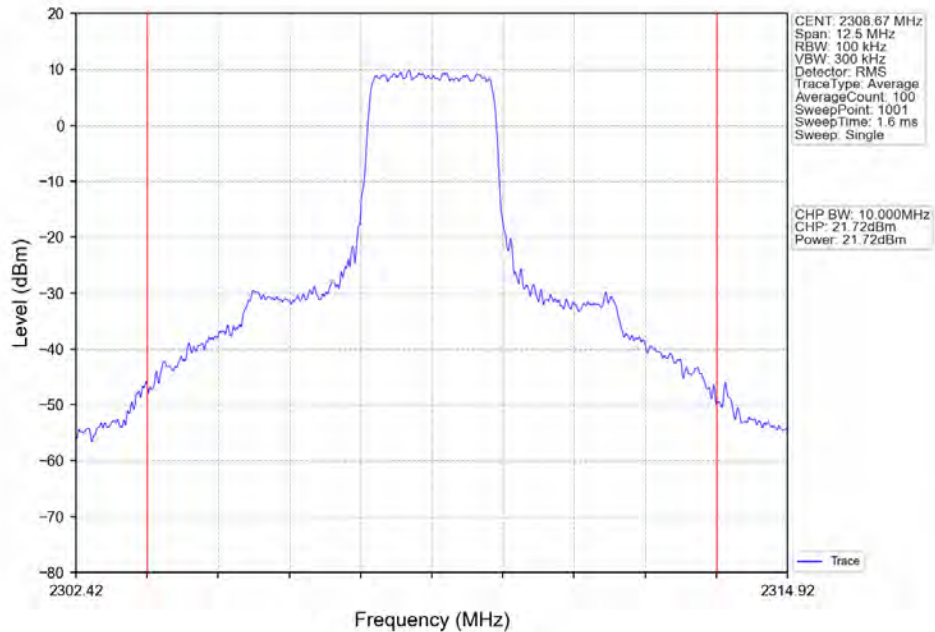
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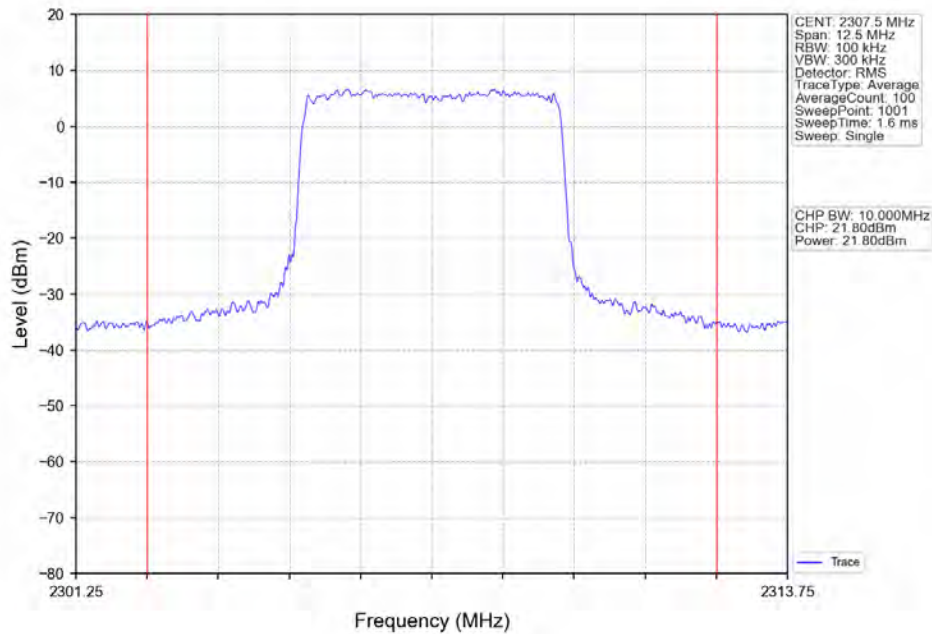
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Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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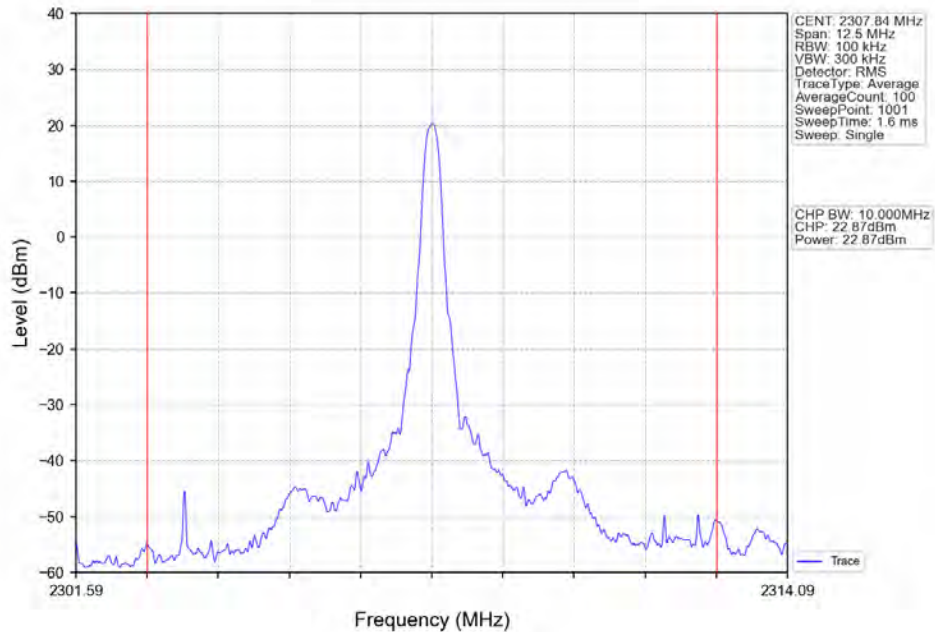
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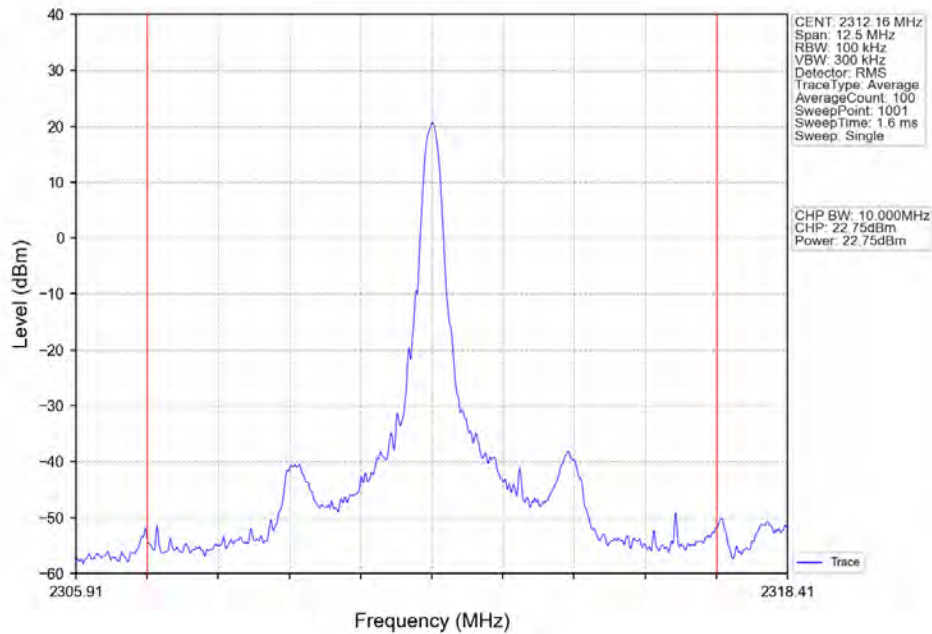
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Band30_5MHz_QPSK_MCH_2310MHz_RB_1_24_NTNV



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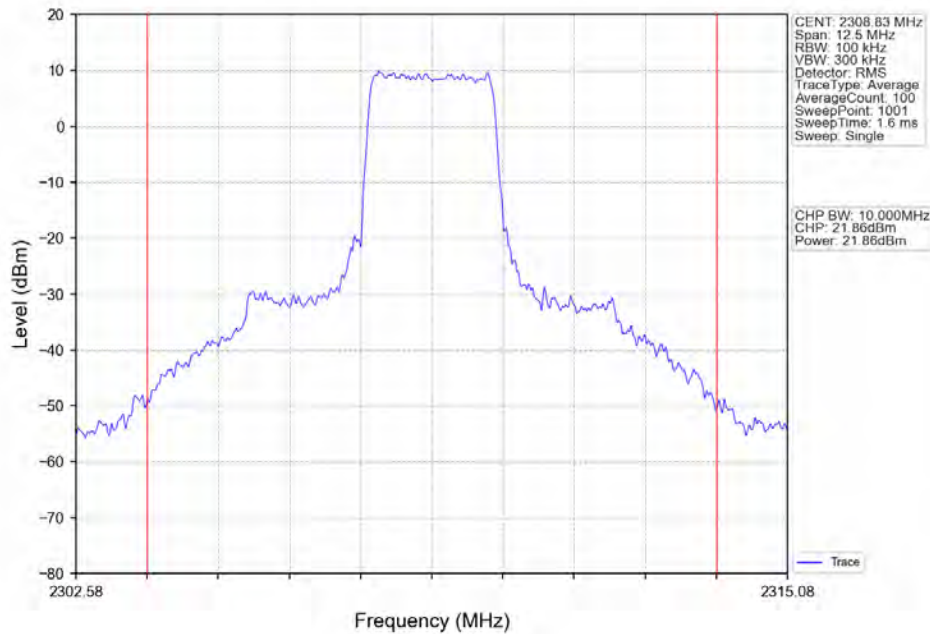
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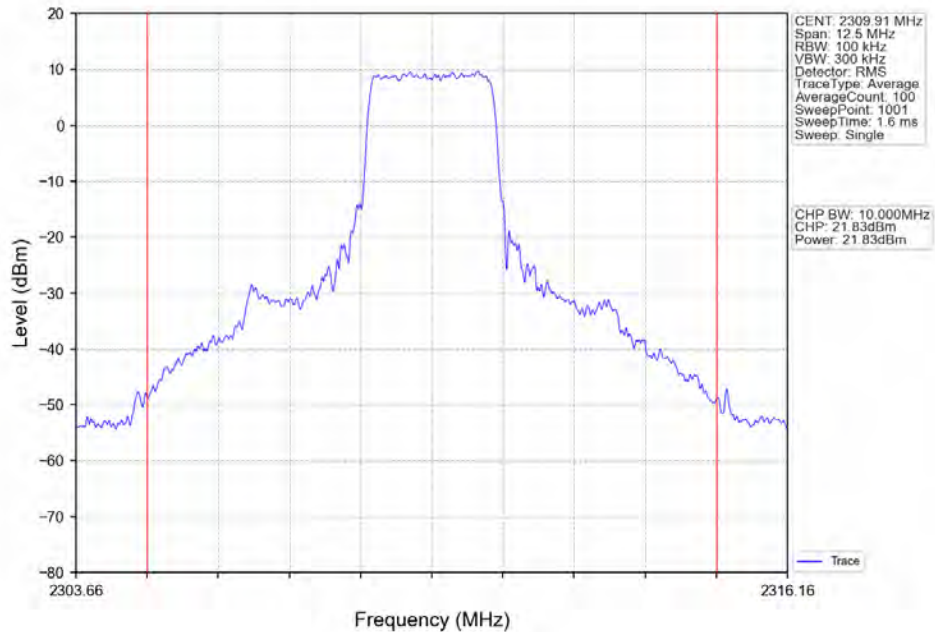
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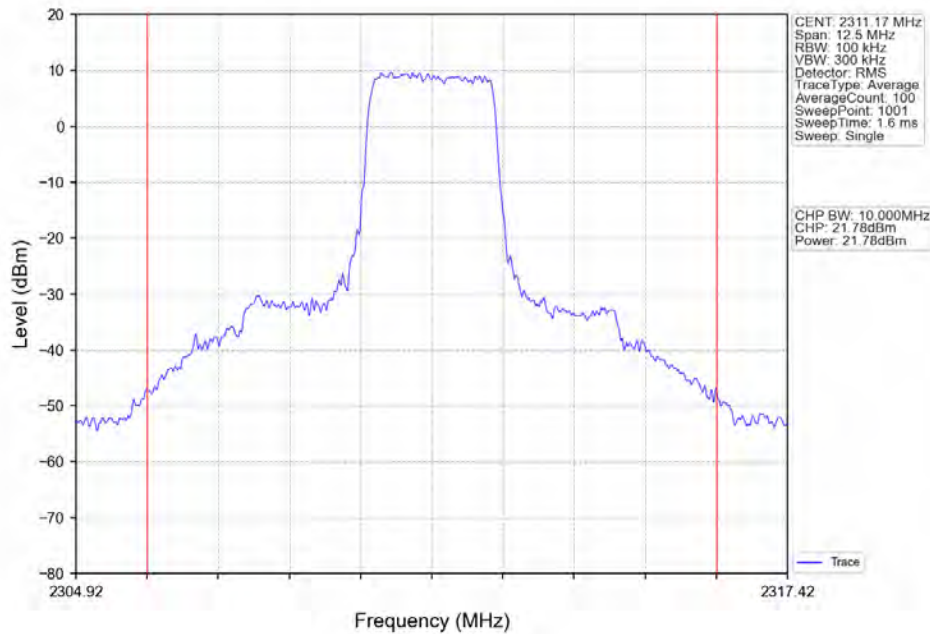
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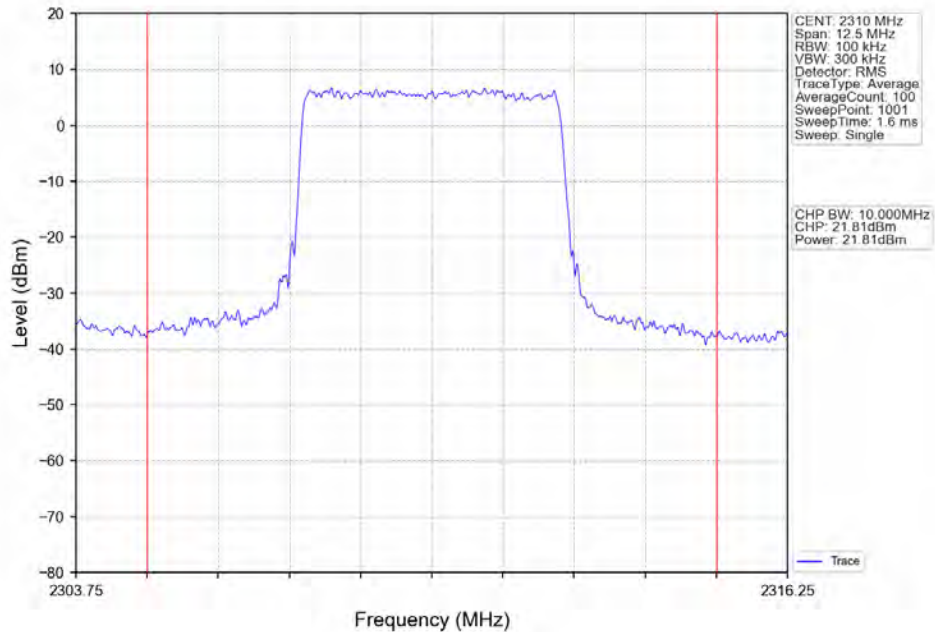
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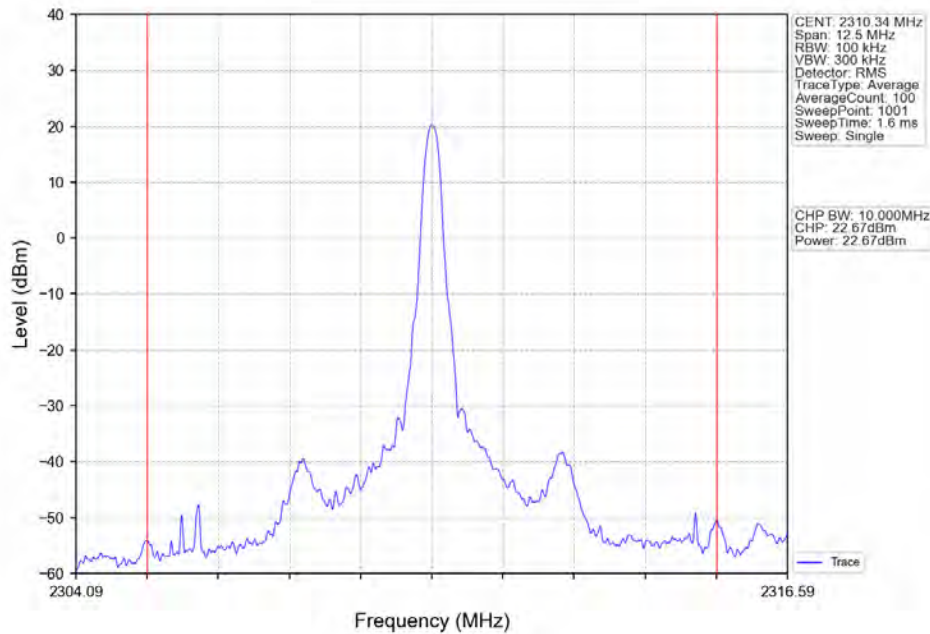
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_13_NTNV



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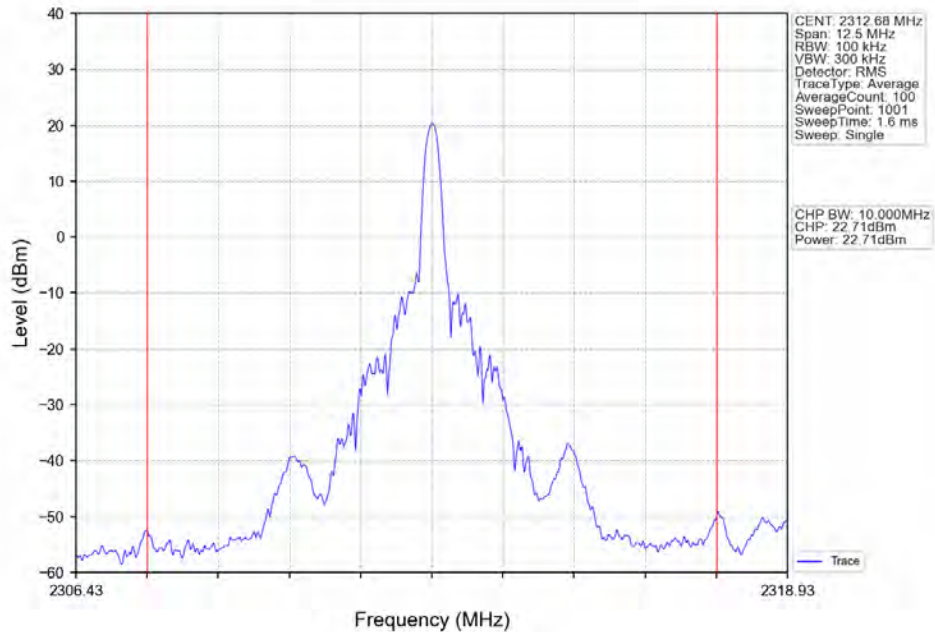
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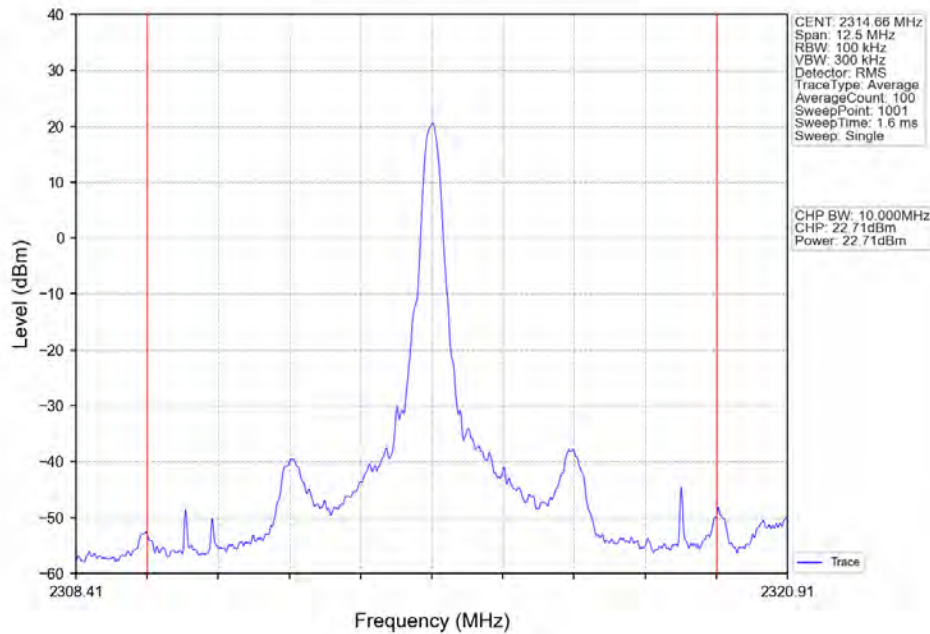
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_12_0_NTNV



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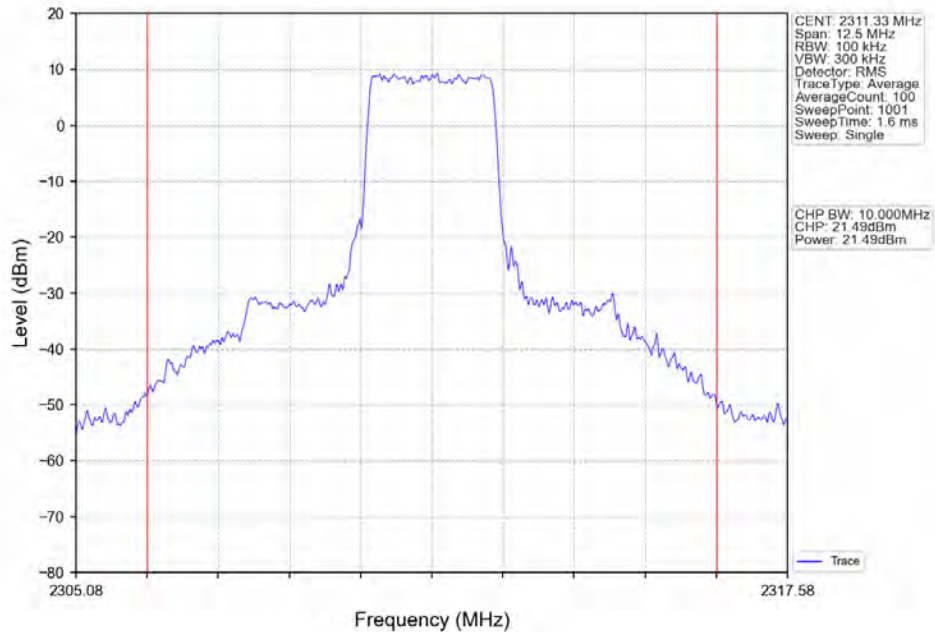
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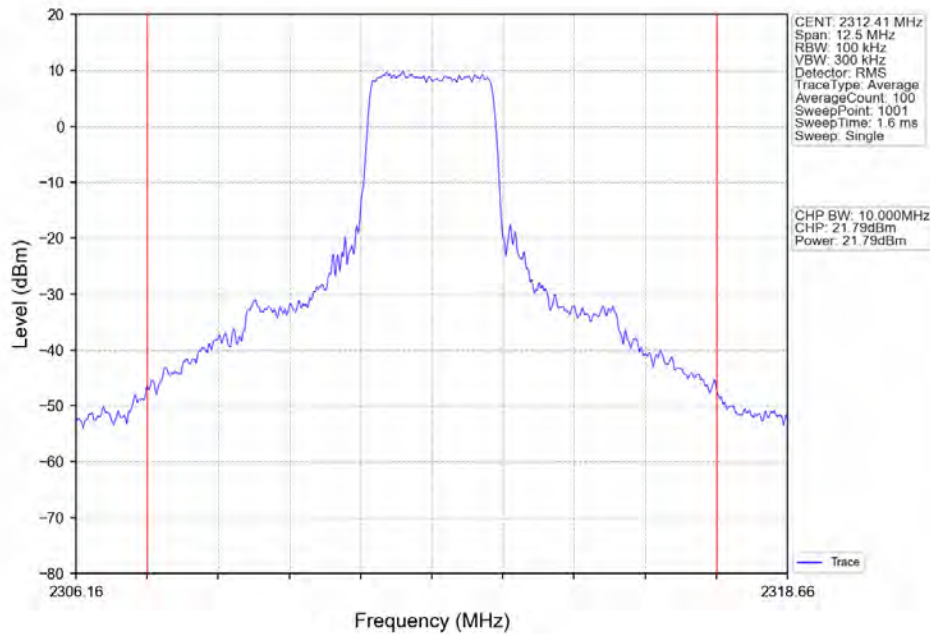
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_12_13_NTNV



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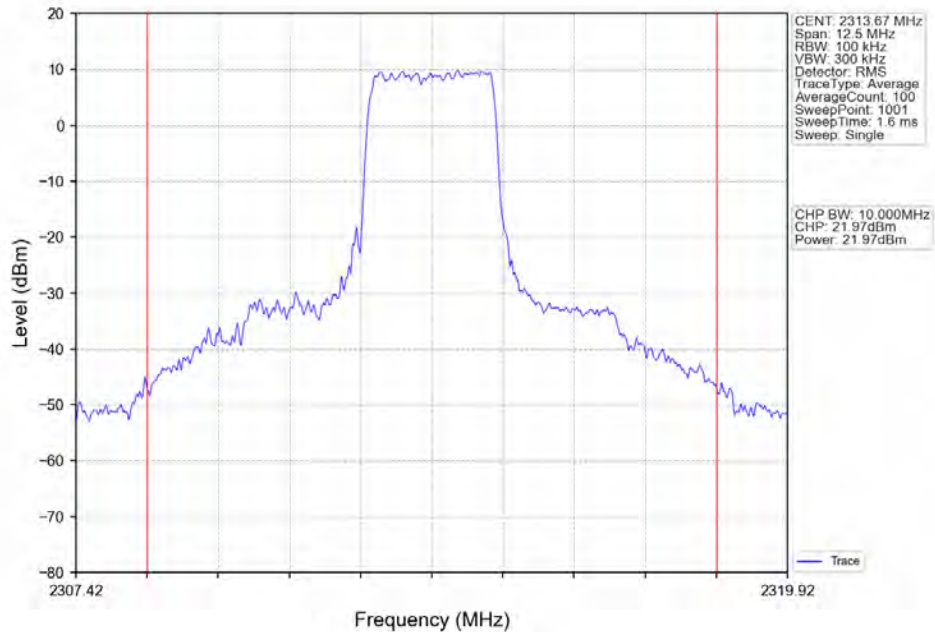
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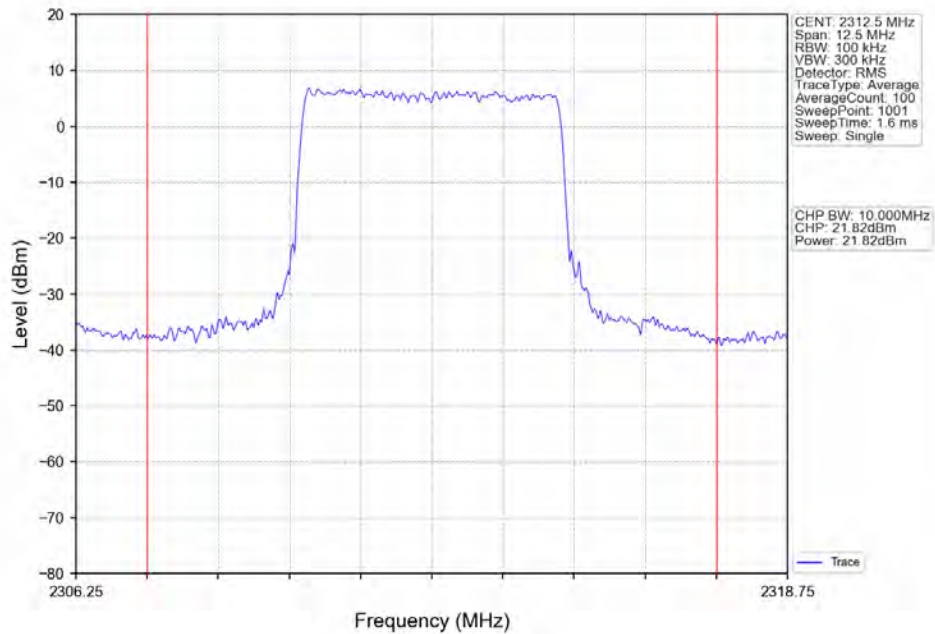
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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



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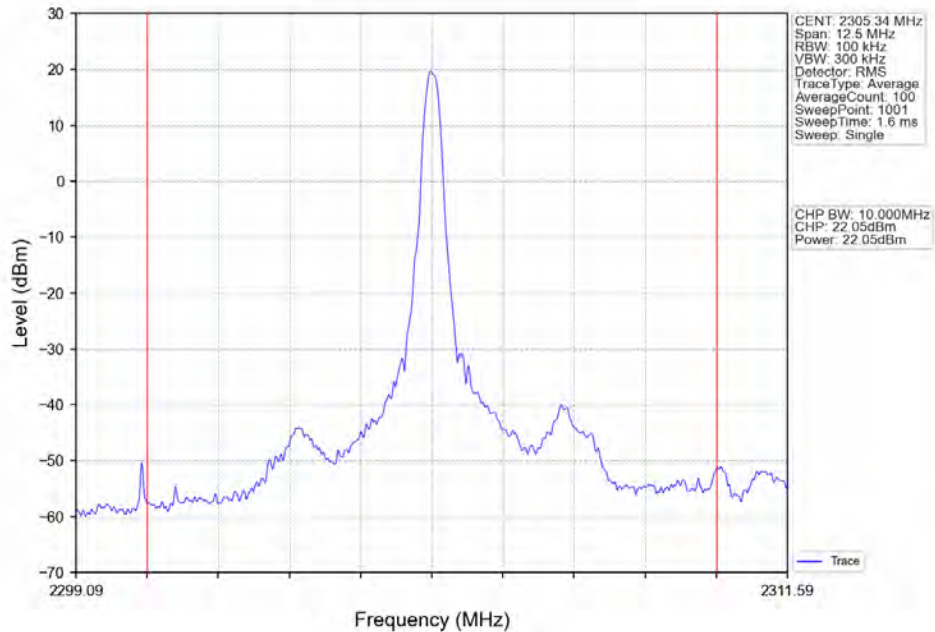
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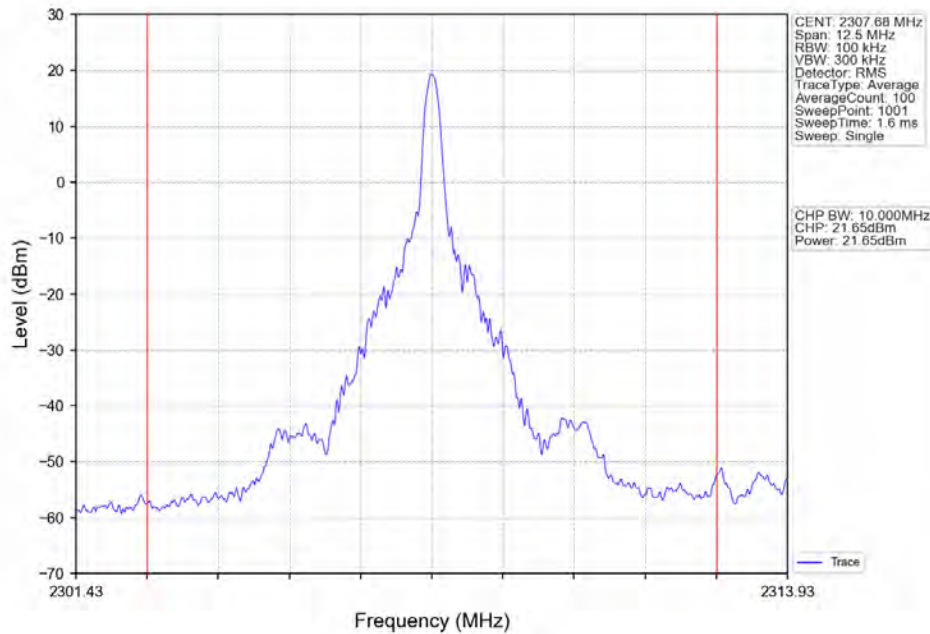
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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_24_NTNV



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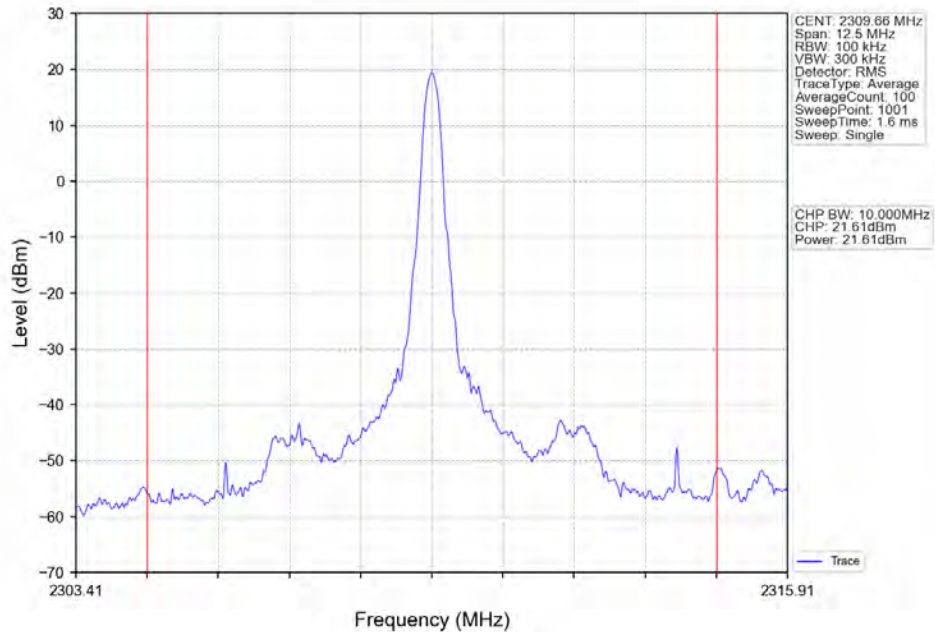
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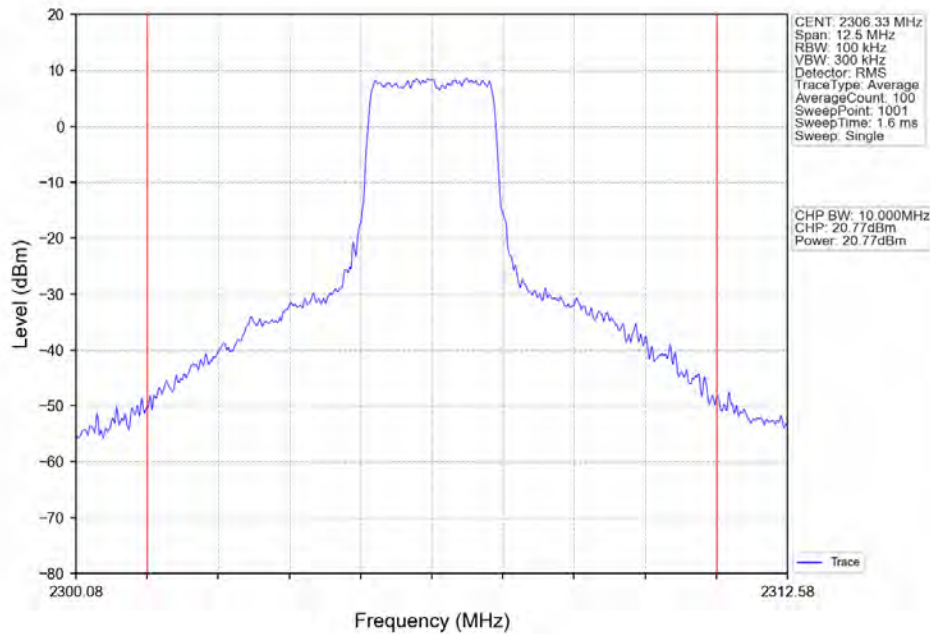
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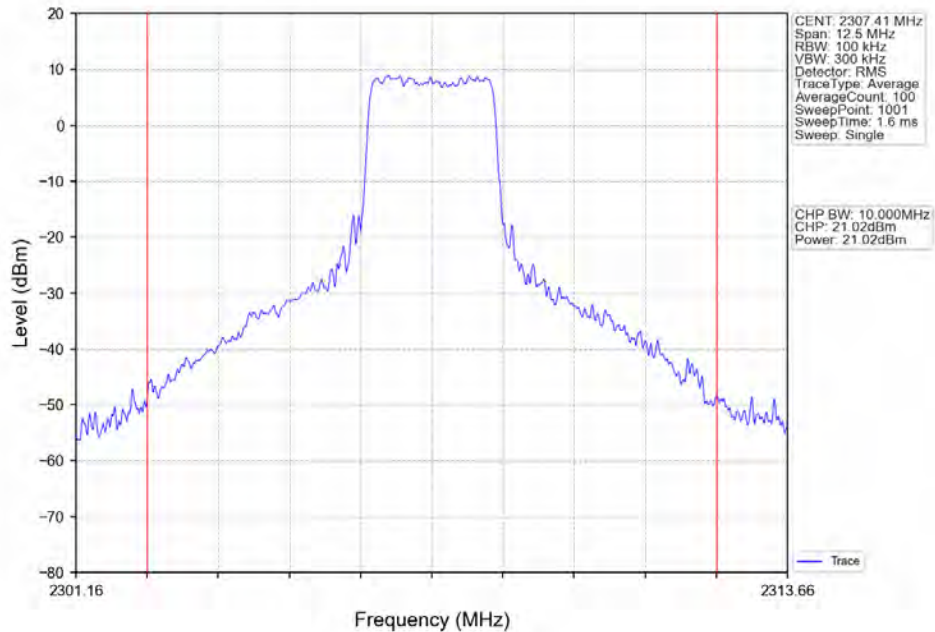
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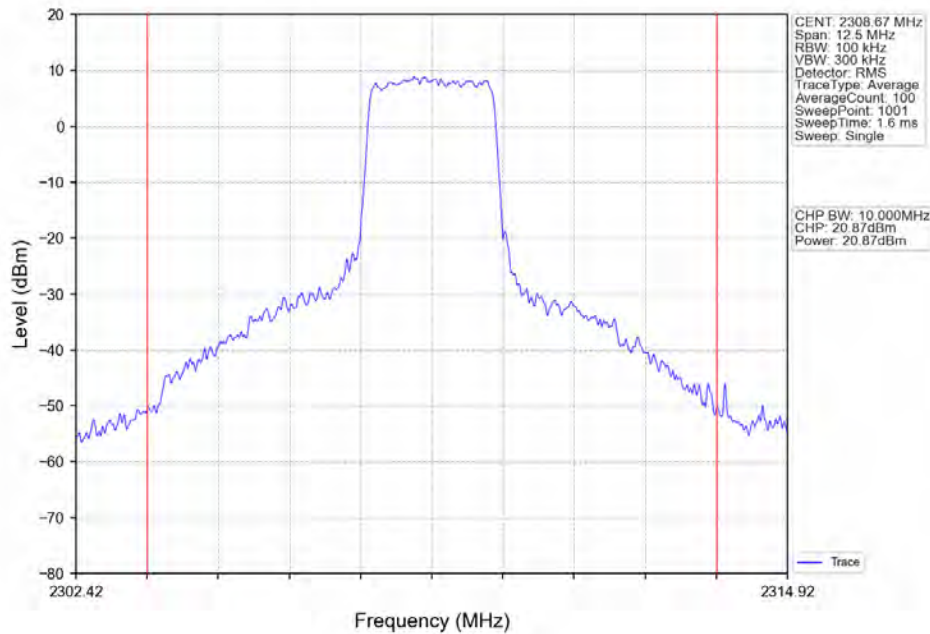
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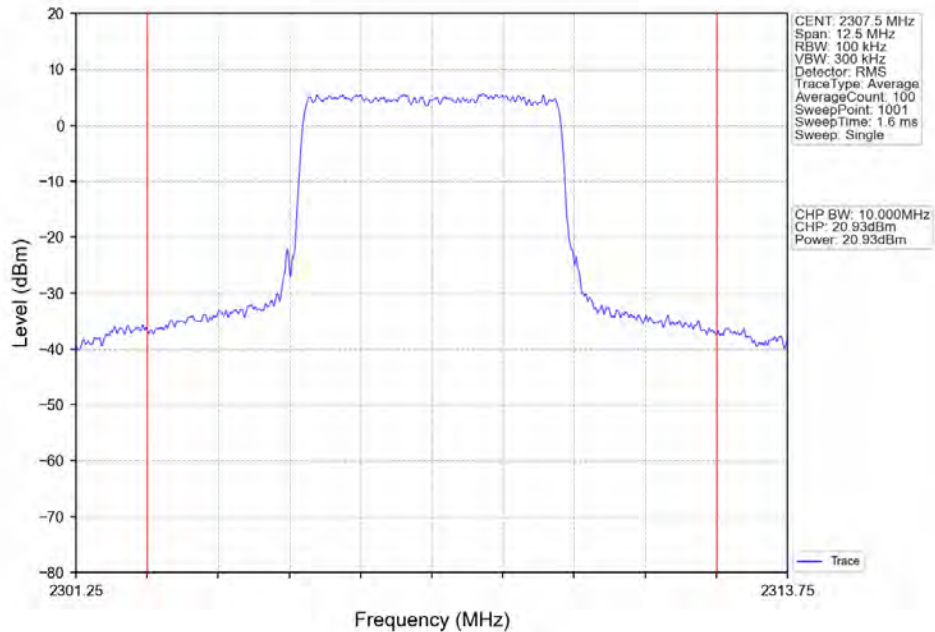
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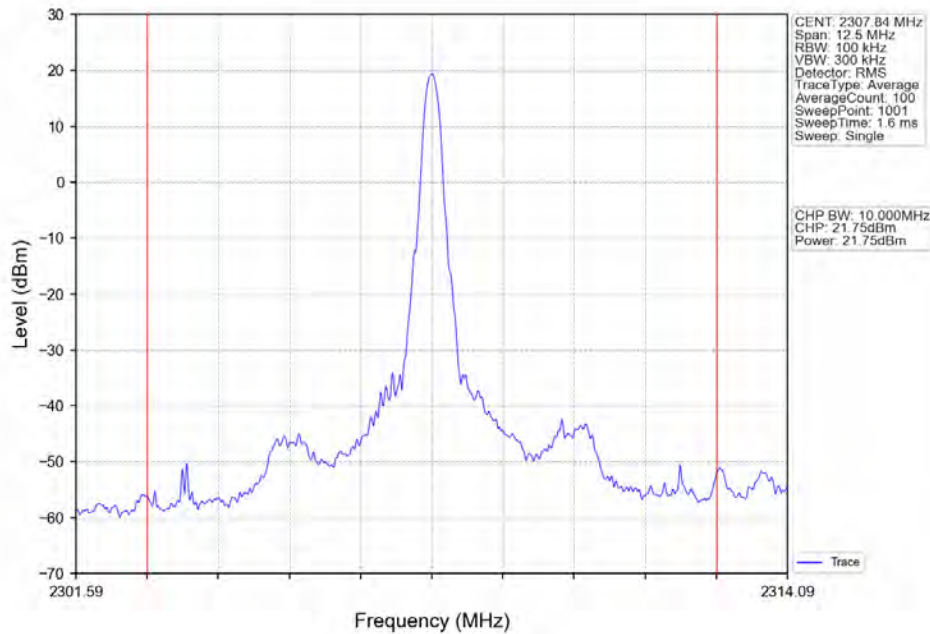
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Band30_5MHz_16QAM_MCH_2310MHz_RB_1_13_NTNV



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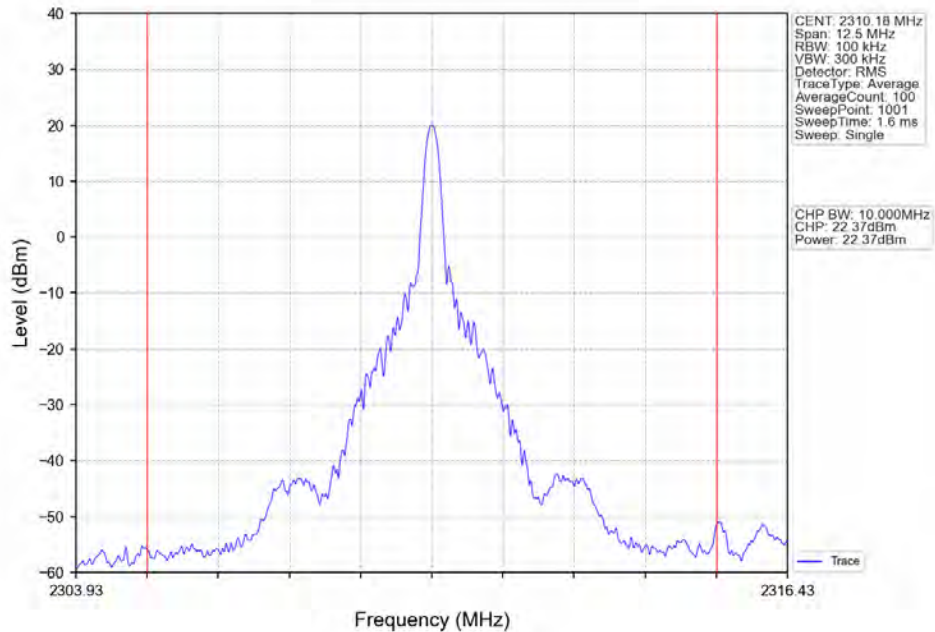
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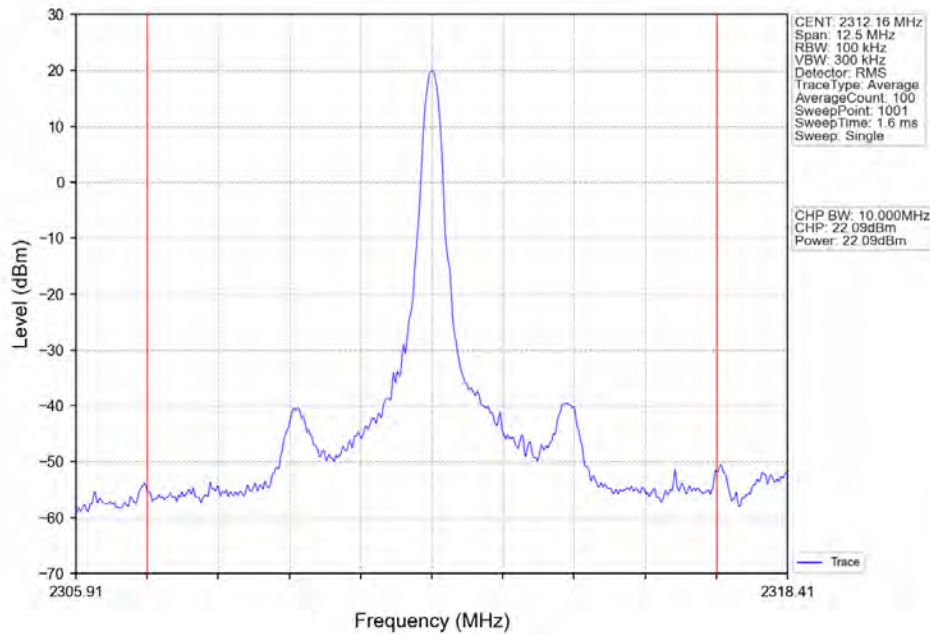
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Band30_5MHz_16QAM_MCH_2310MHz_RB_12_0_NTNV



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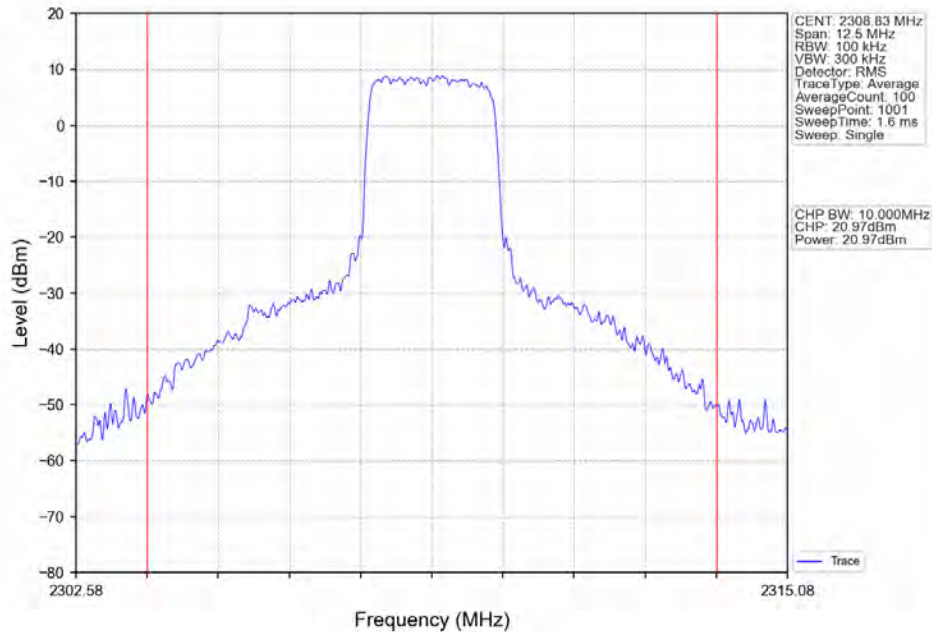
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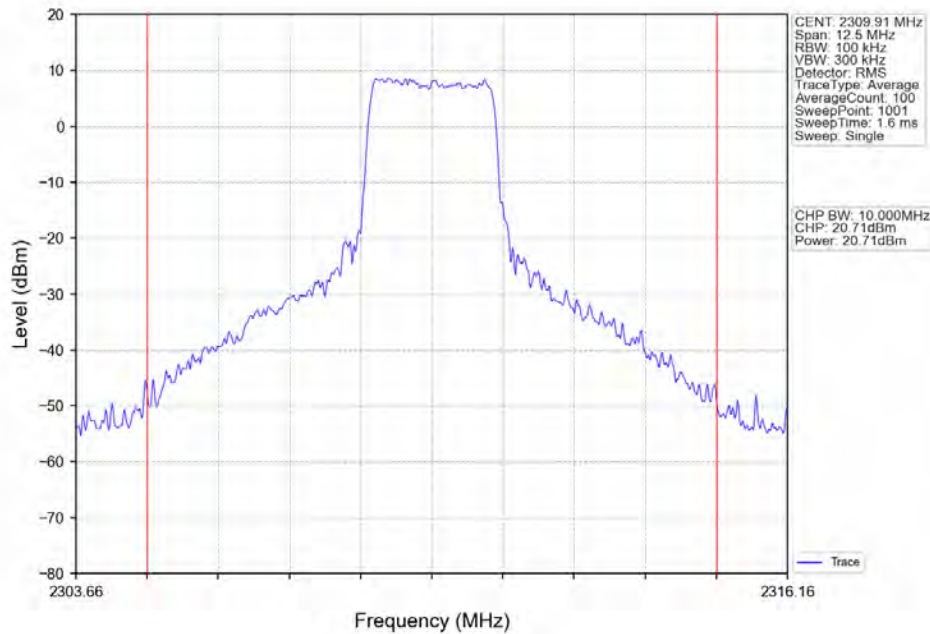
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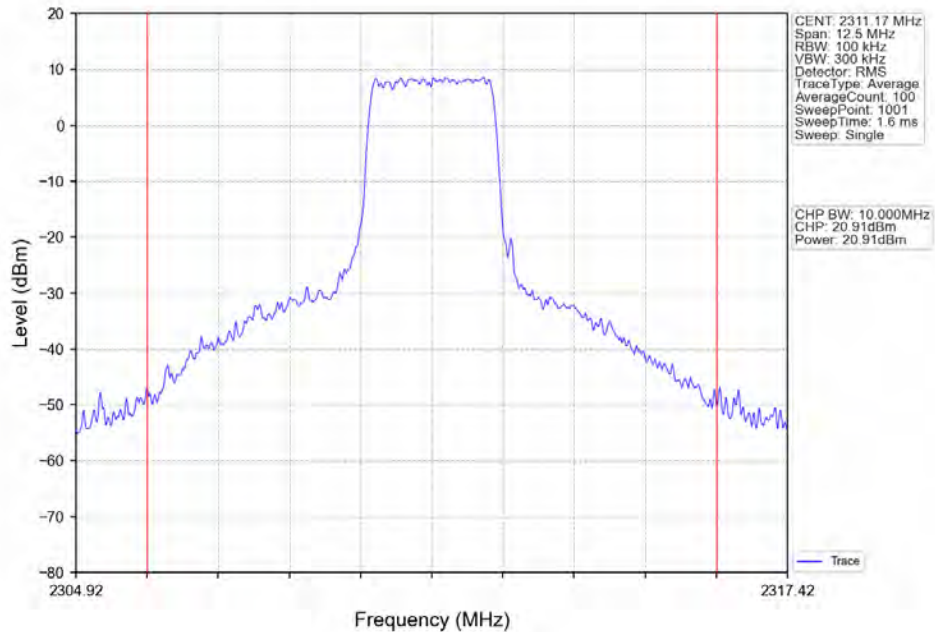
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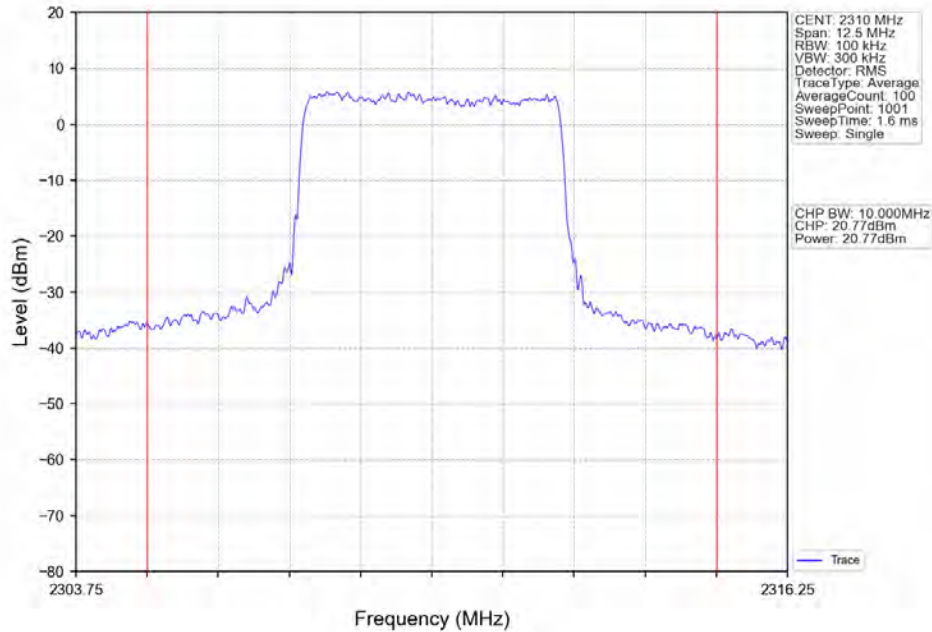
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Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV



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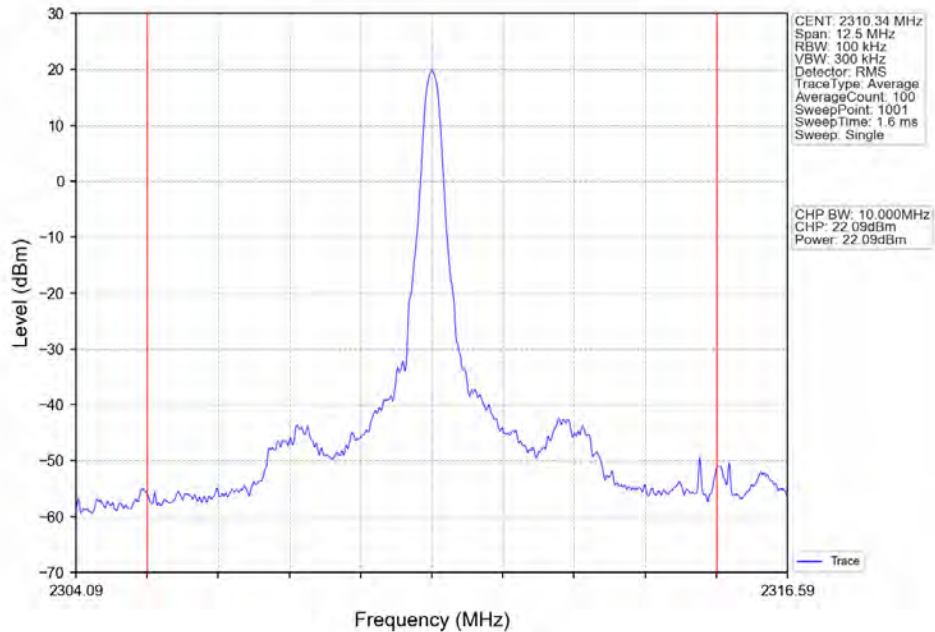
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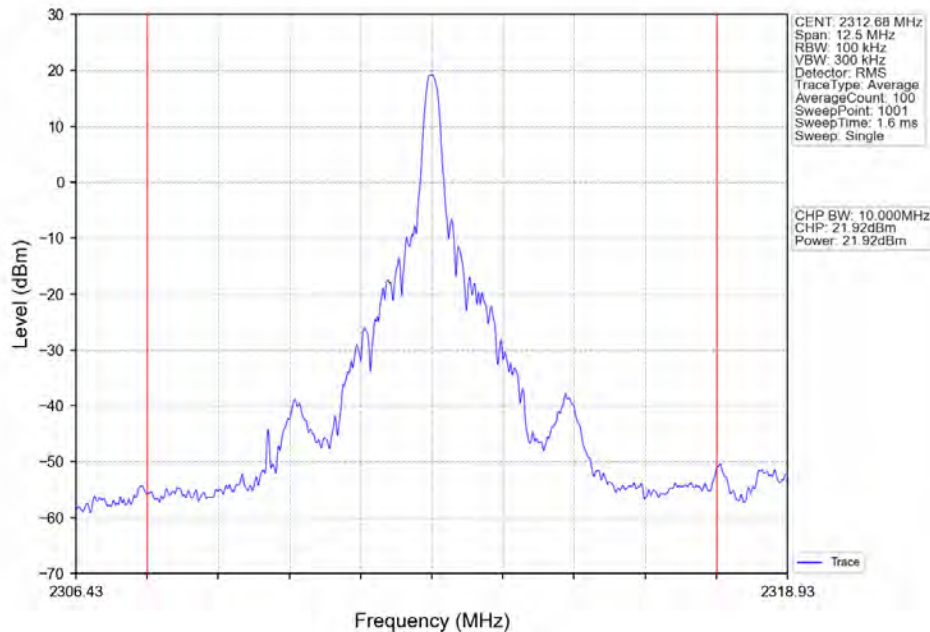
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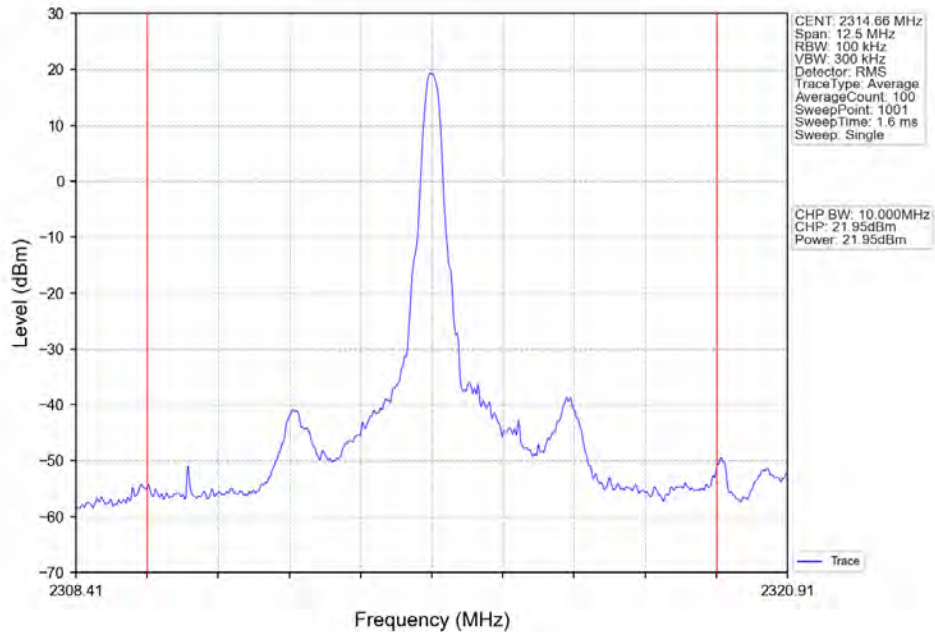
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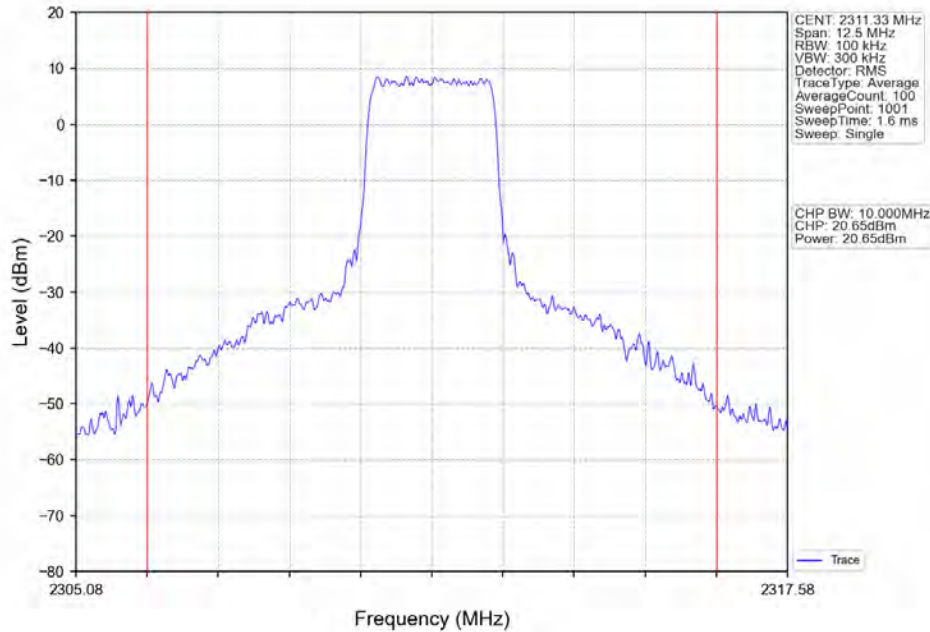
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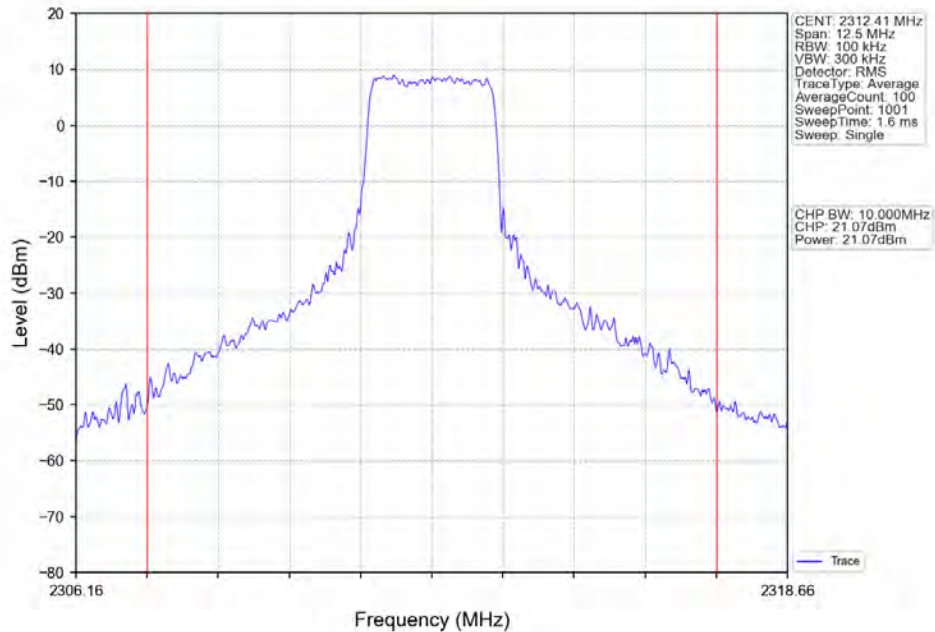
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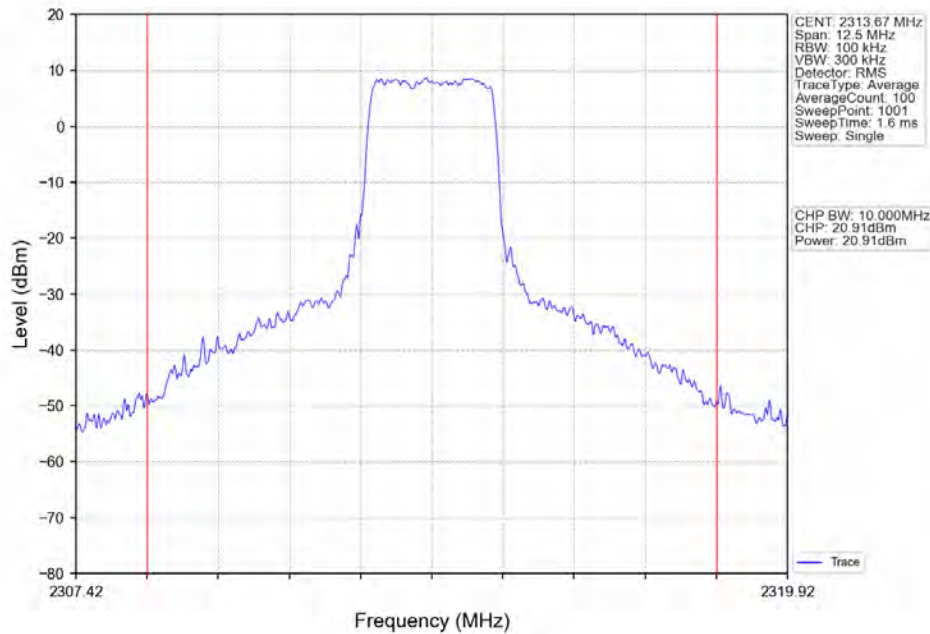
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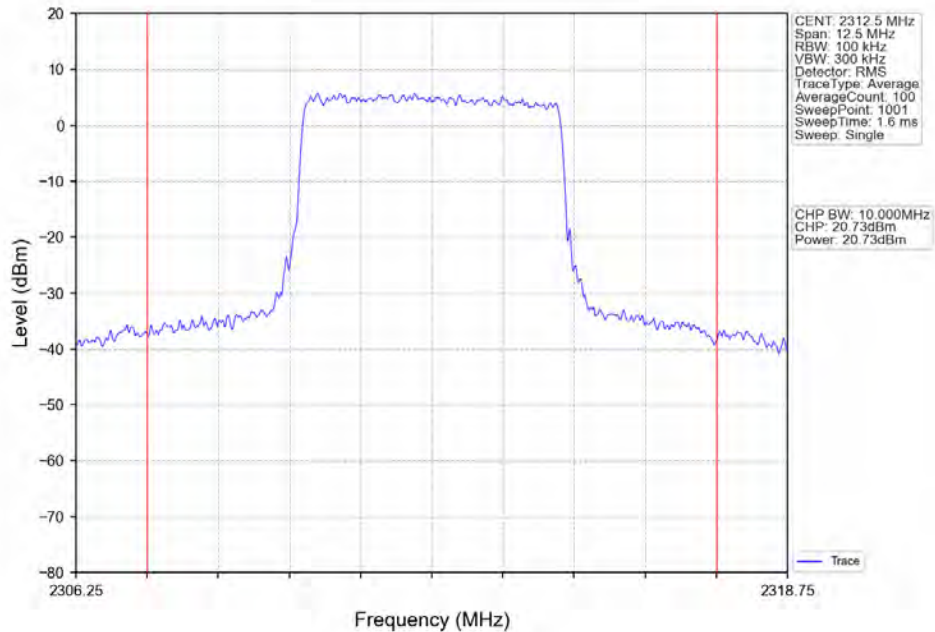
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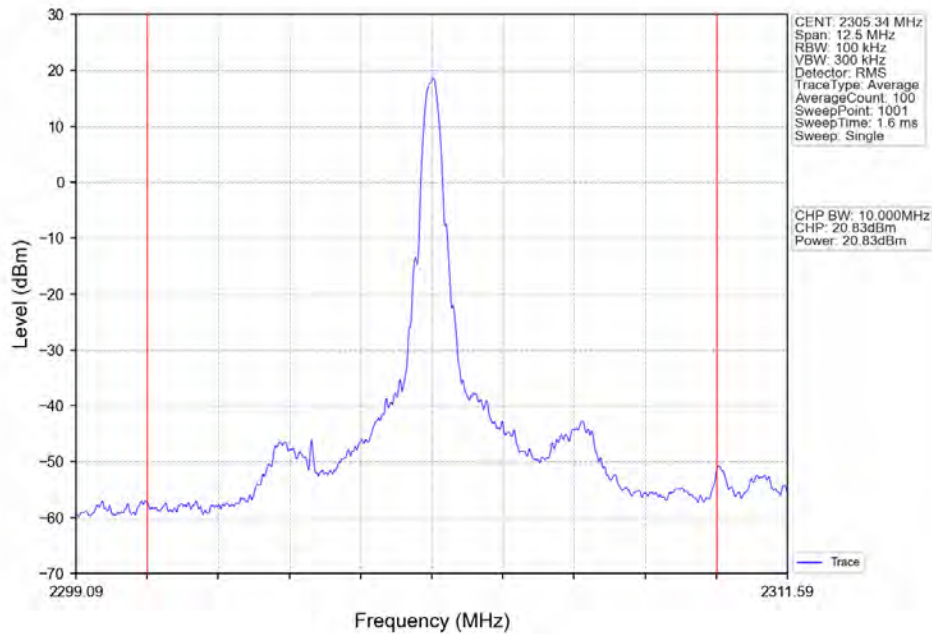
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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_13_NTNV



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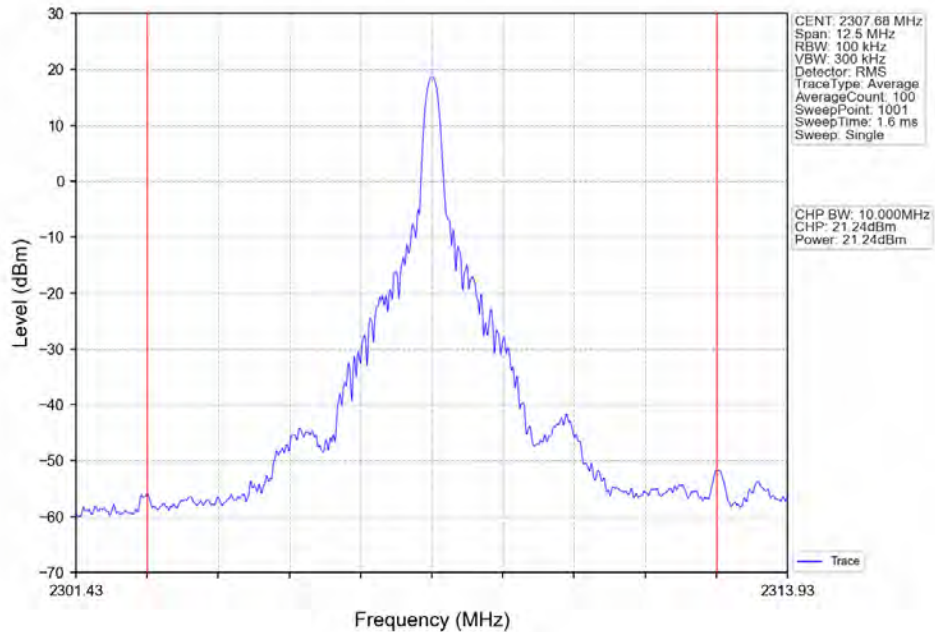
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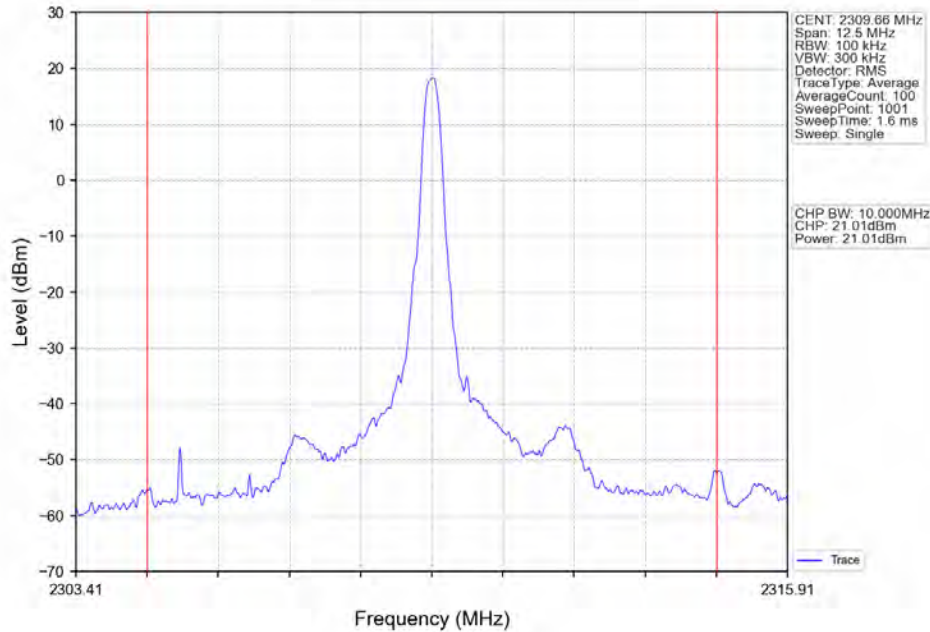
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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_12_0_NTNV



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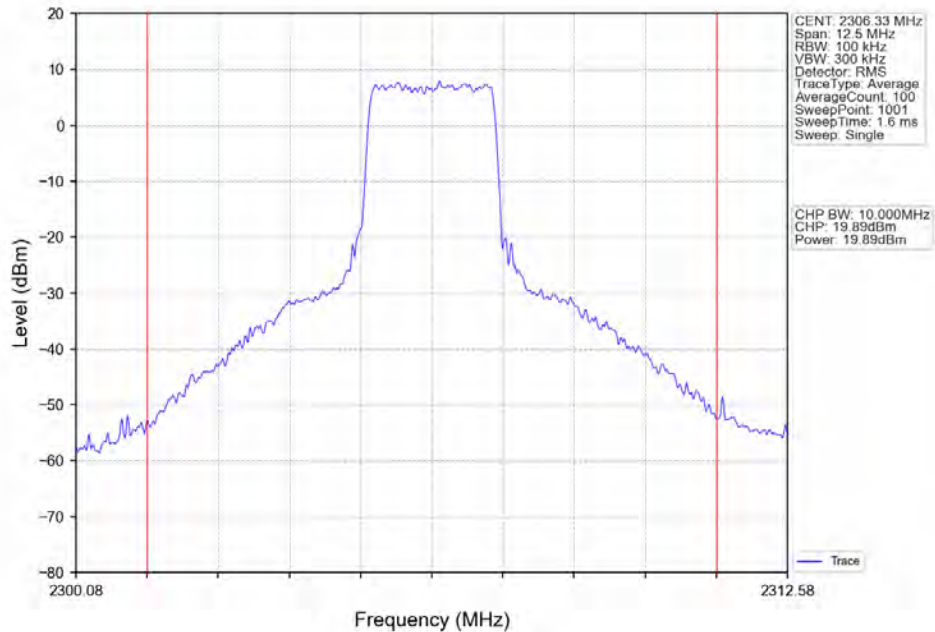
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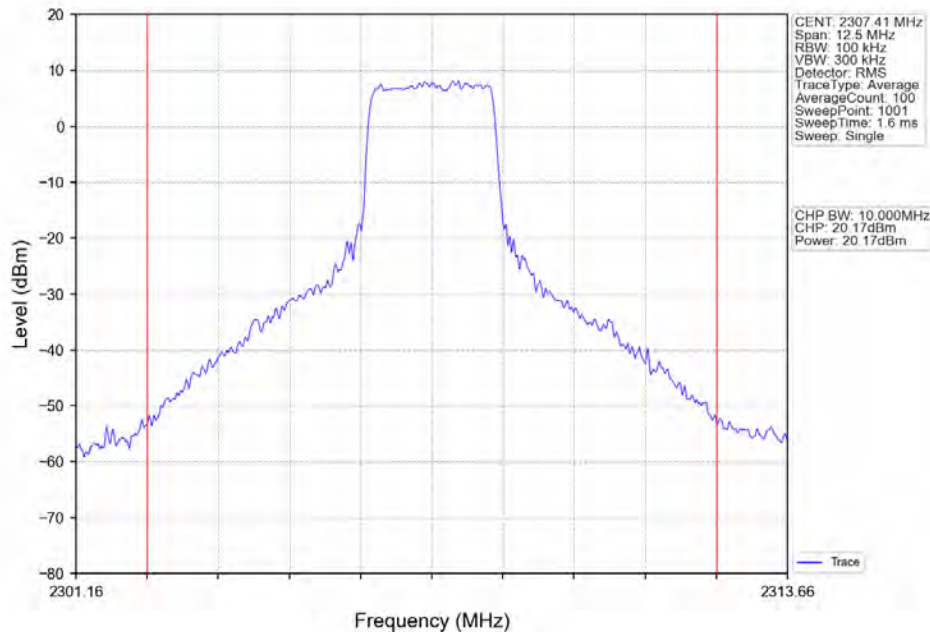
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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_12_13_NTNV



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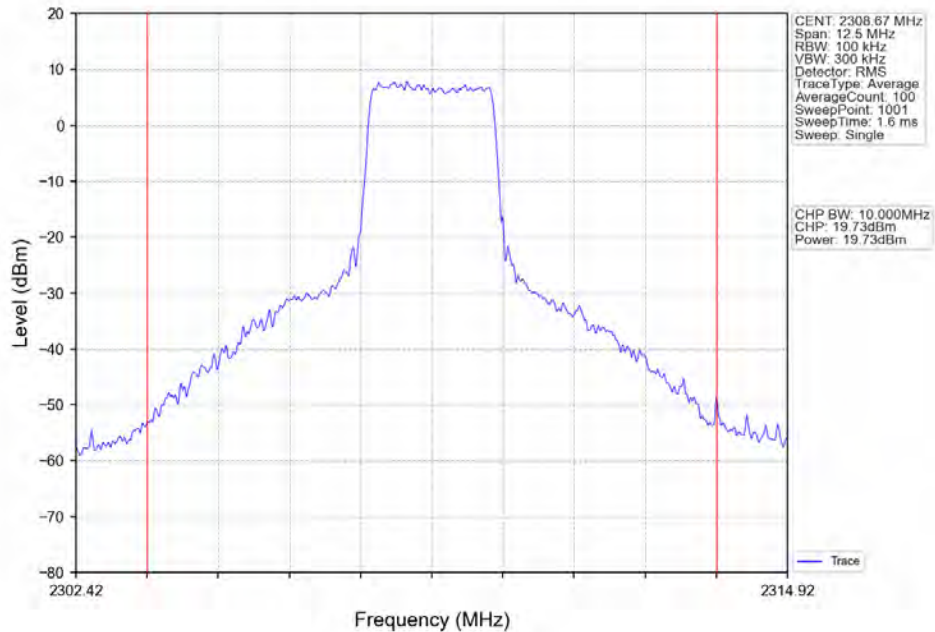
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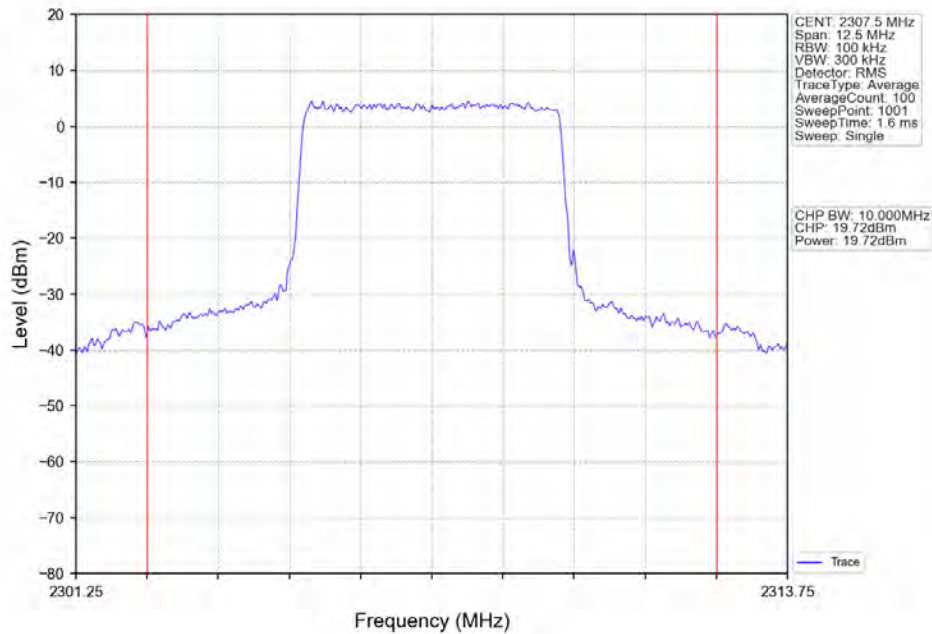
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Band30_5MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV



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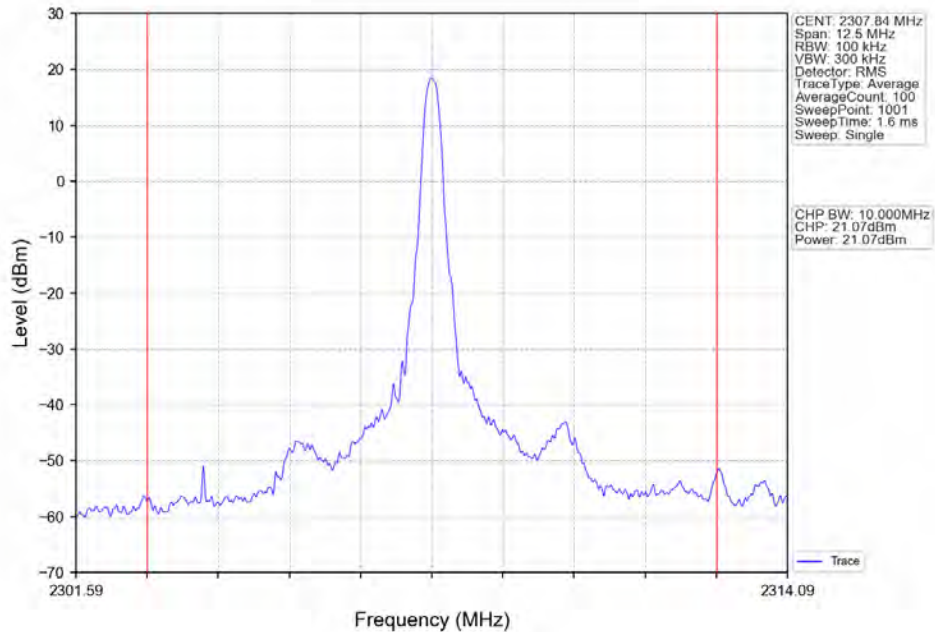
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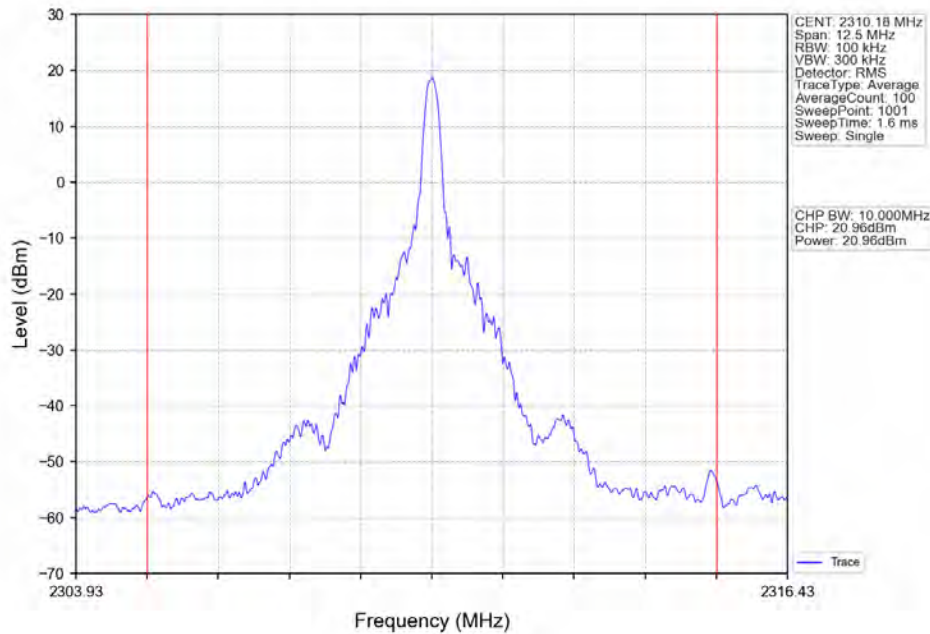
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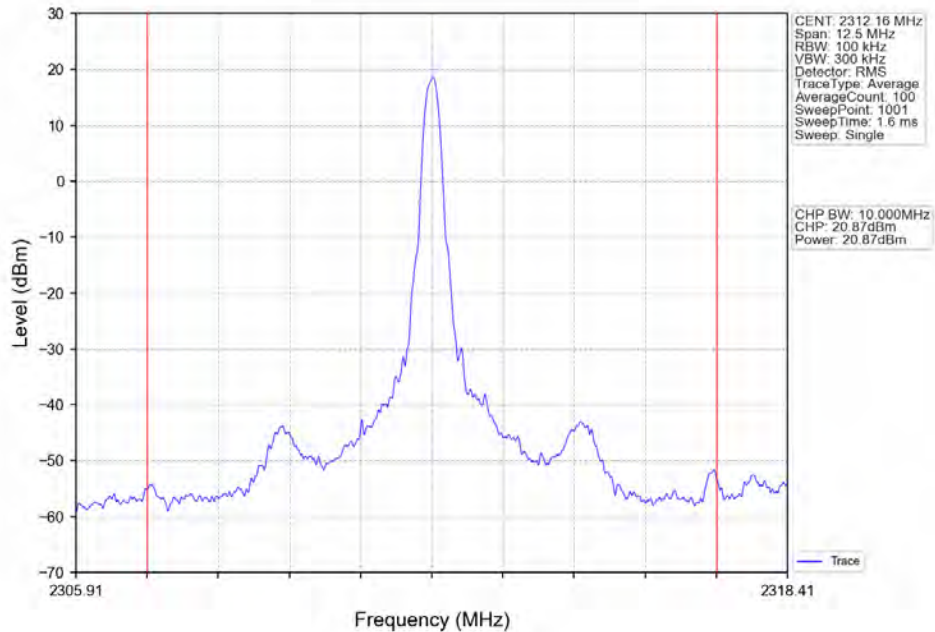
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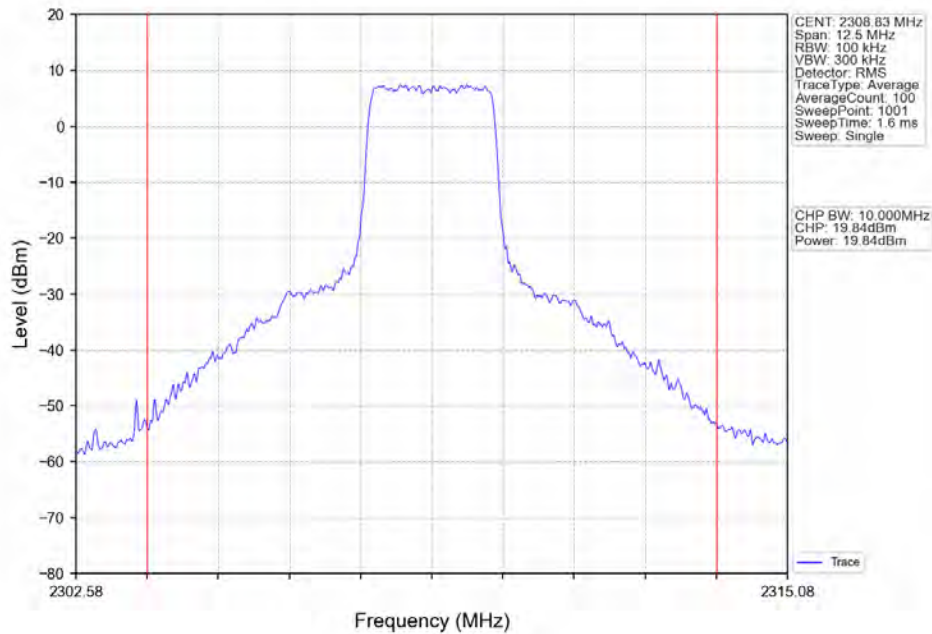
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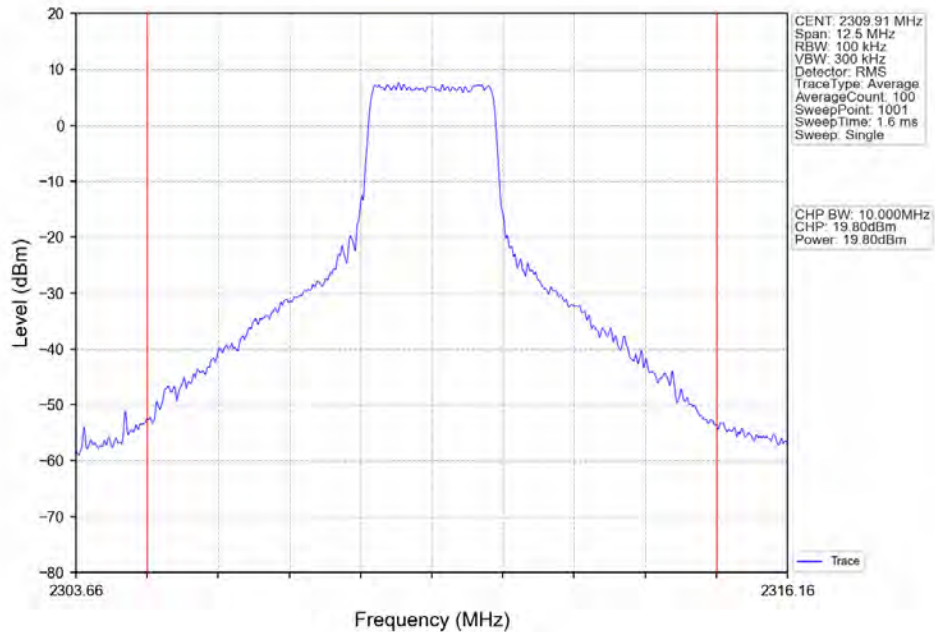
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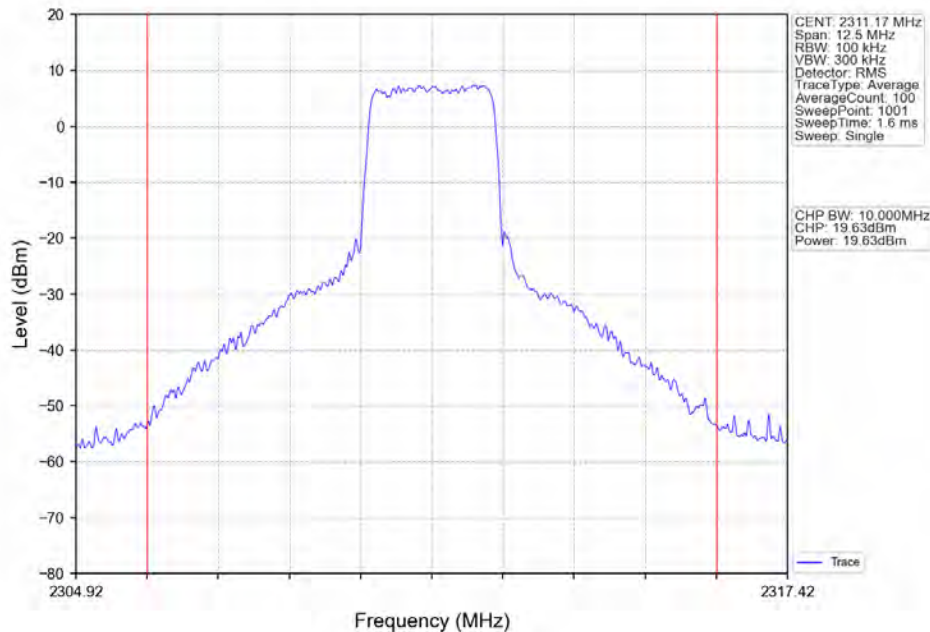
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Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



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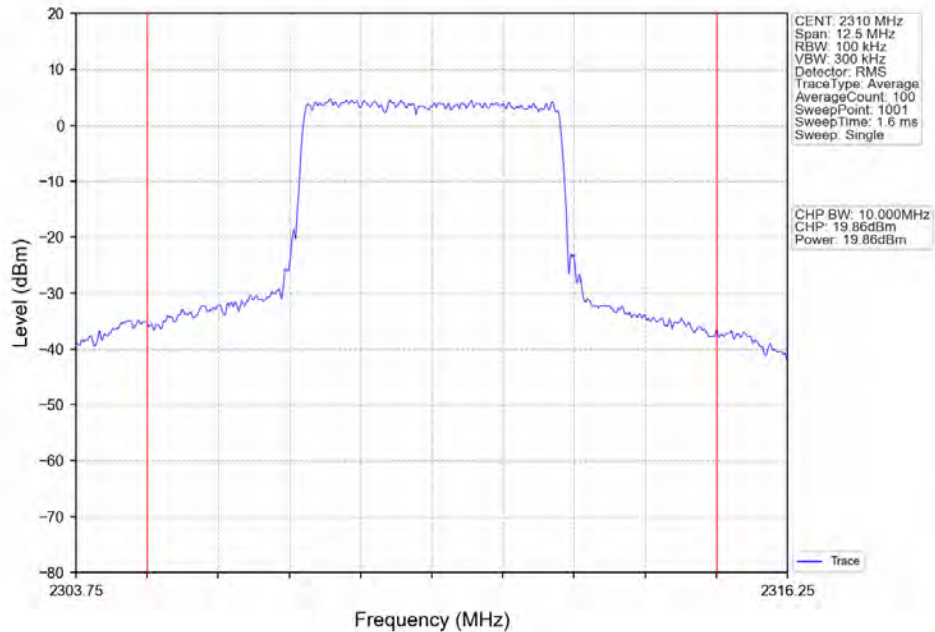
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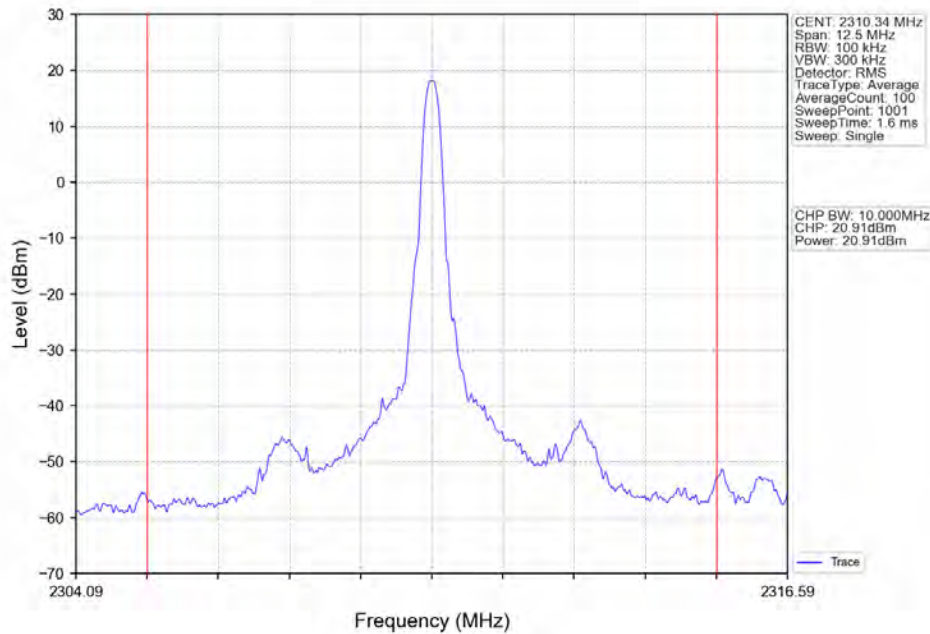
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_13_NTNV



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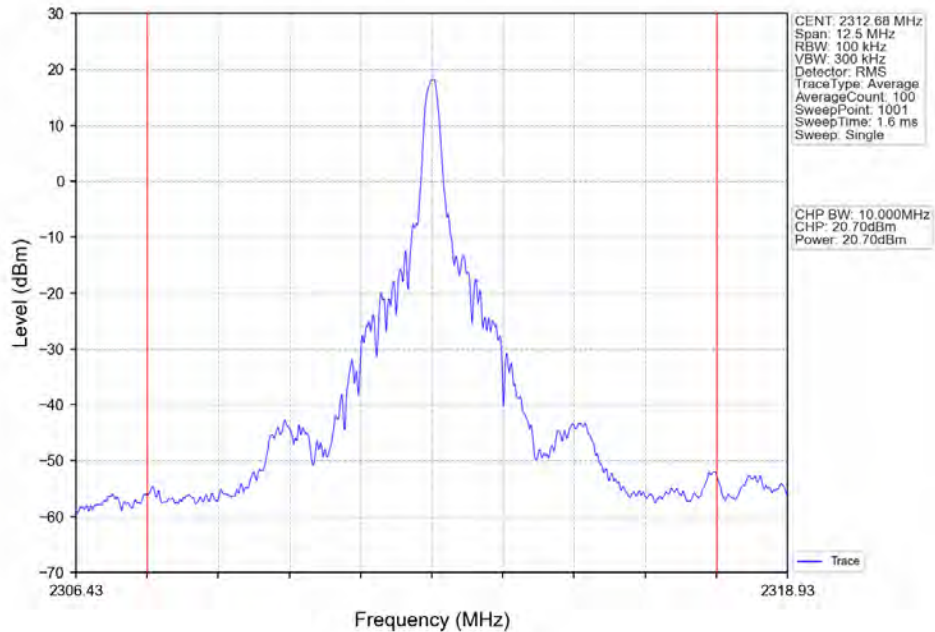
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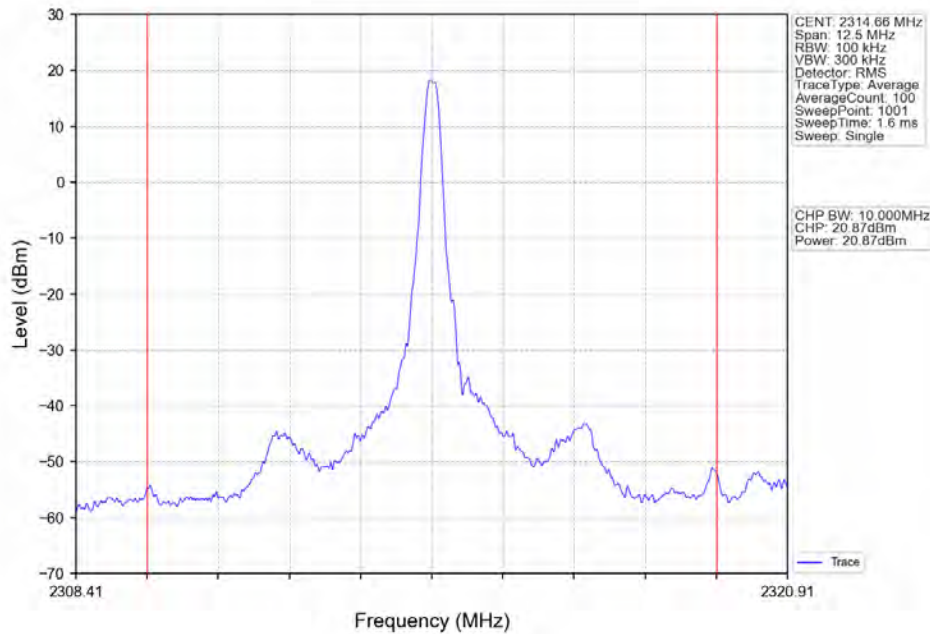
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_12_0_NTNV



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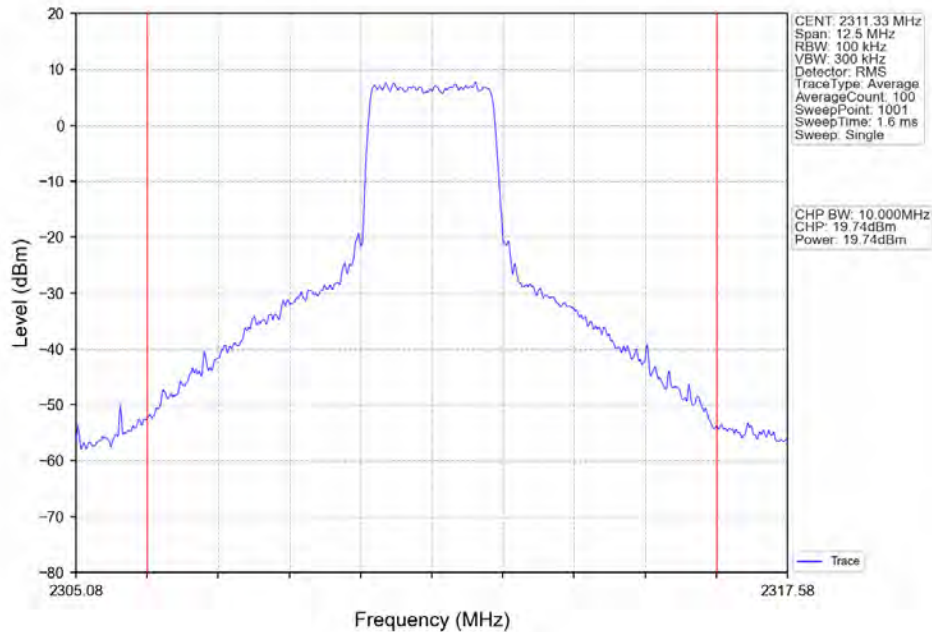
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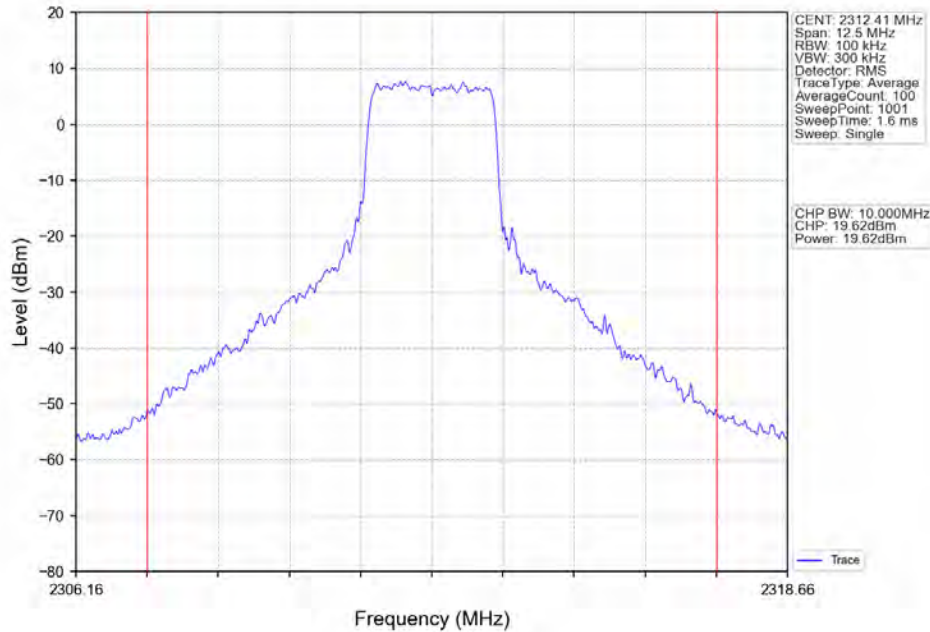
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_12_13_NTNV



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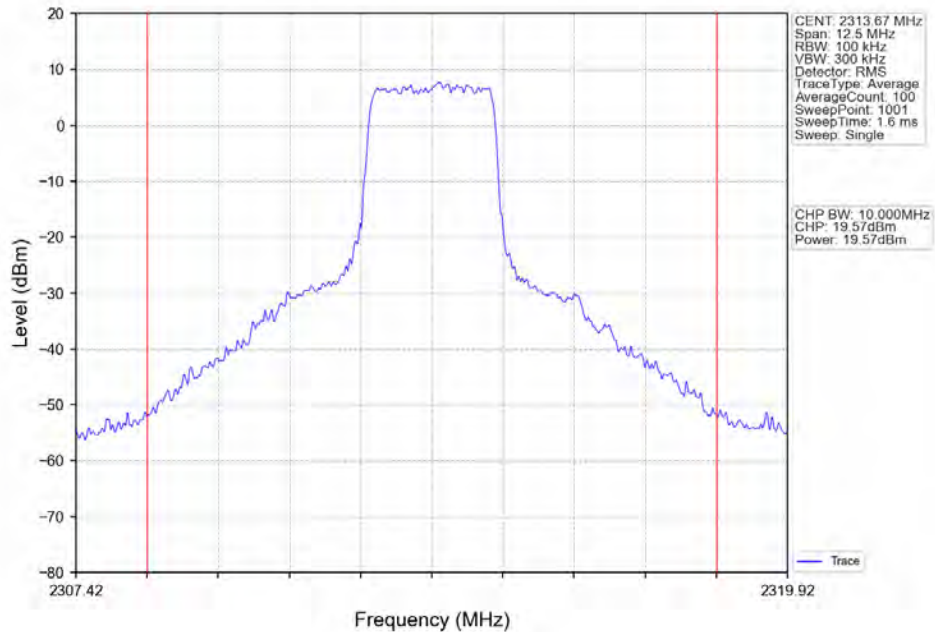
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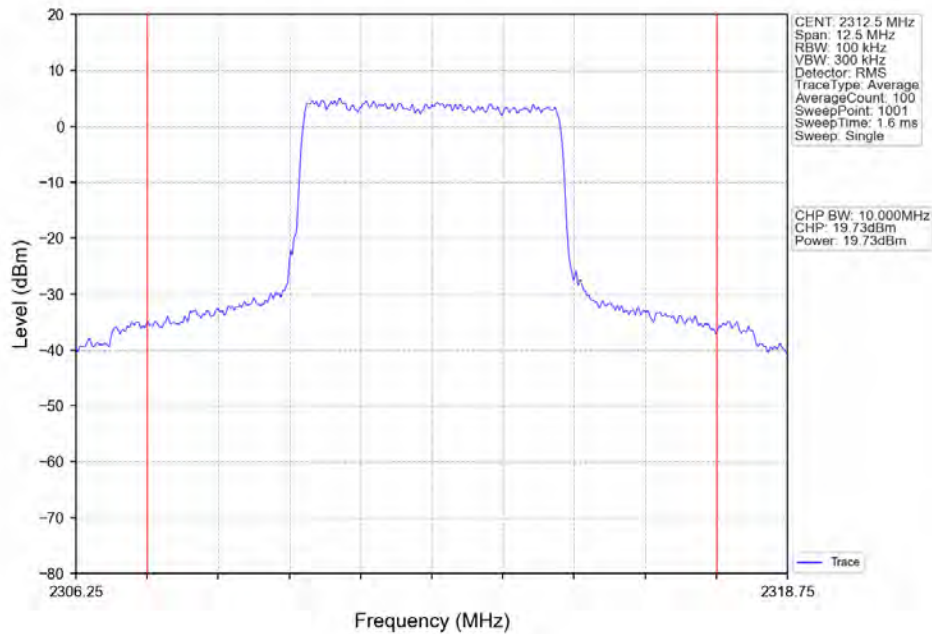
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Band30_5MHz_256QAM_LCH_2307.5MHz_RB_1_0_NTNV



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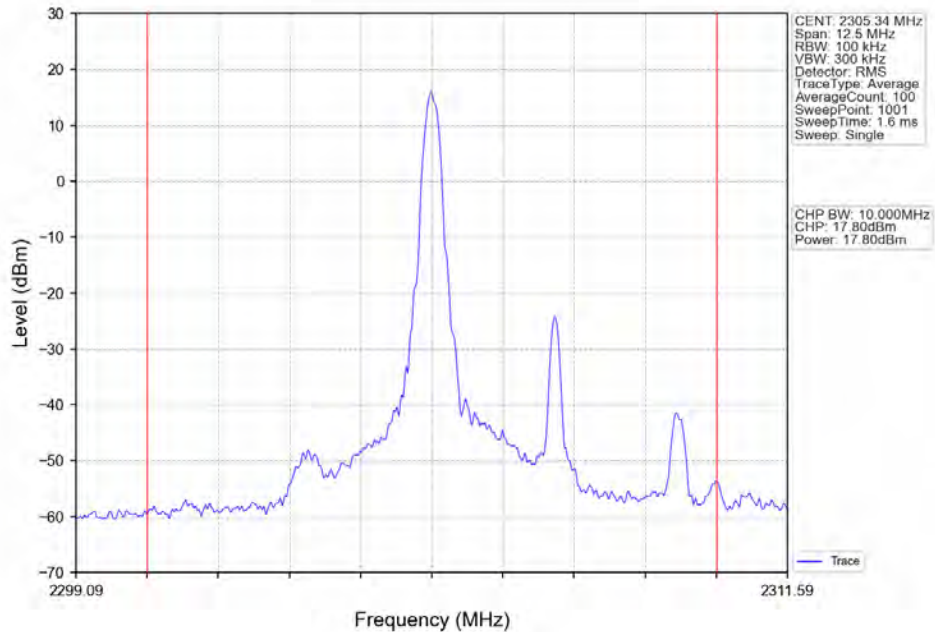
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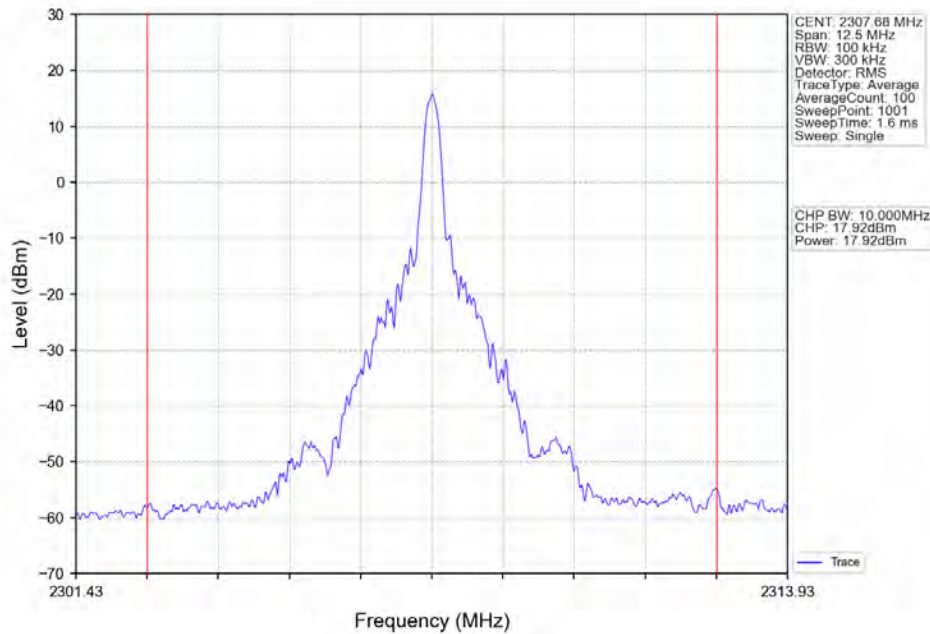
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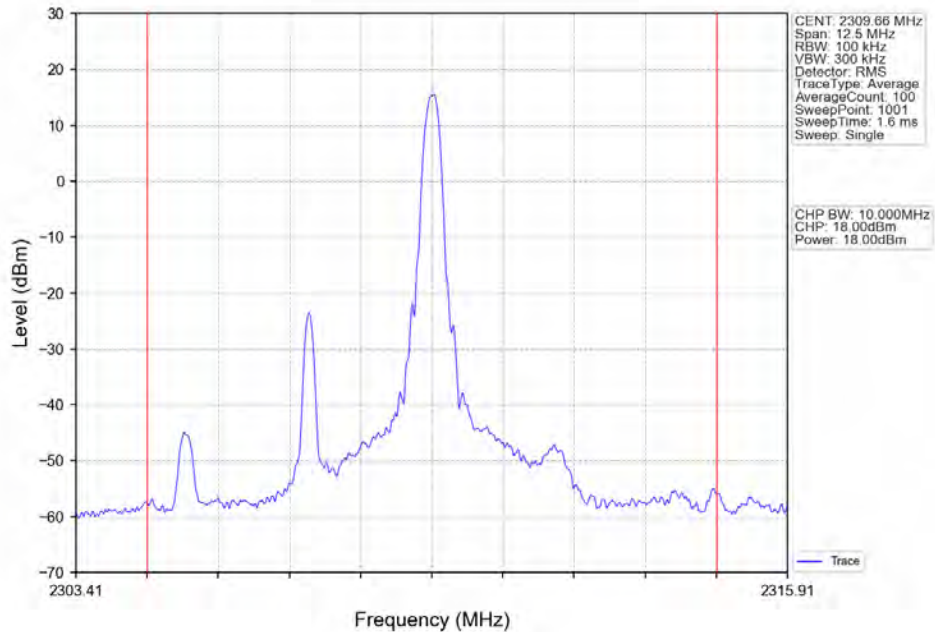
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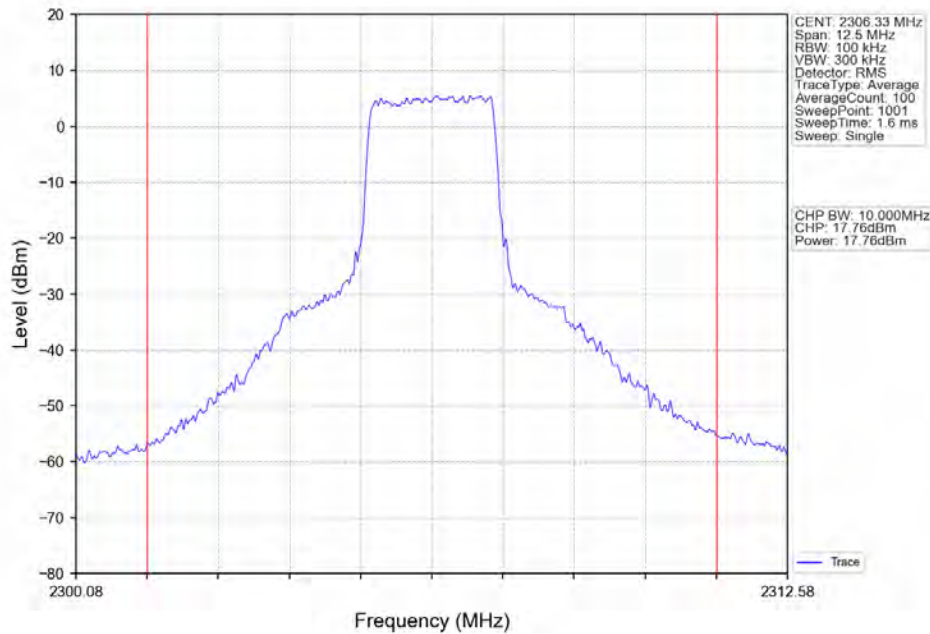
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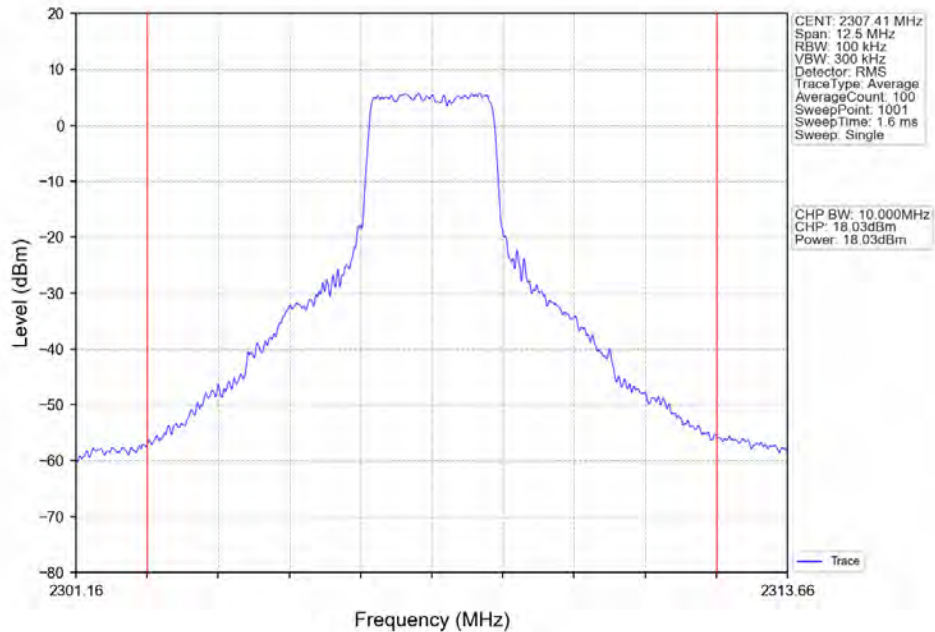
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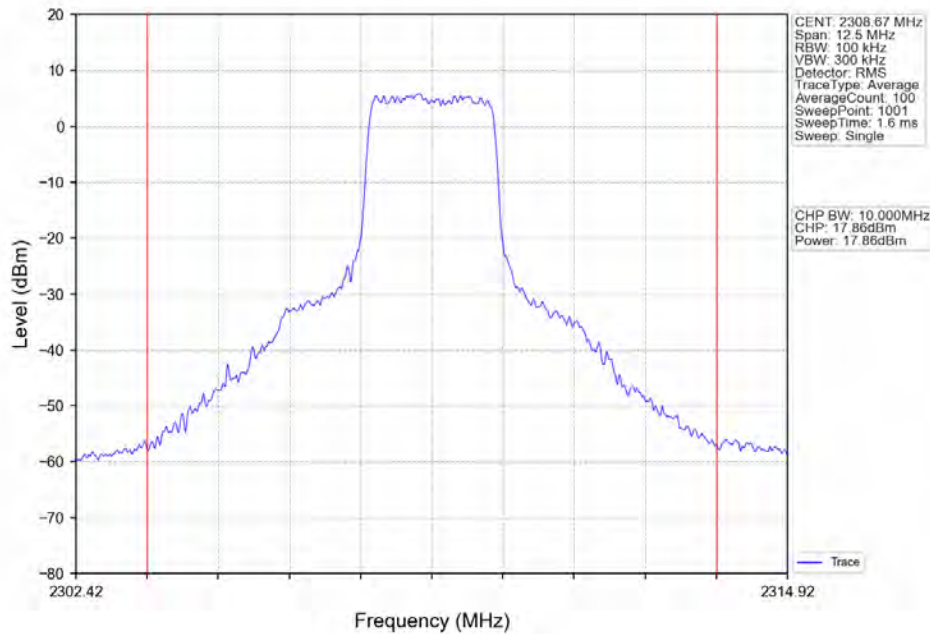
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Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



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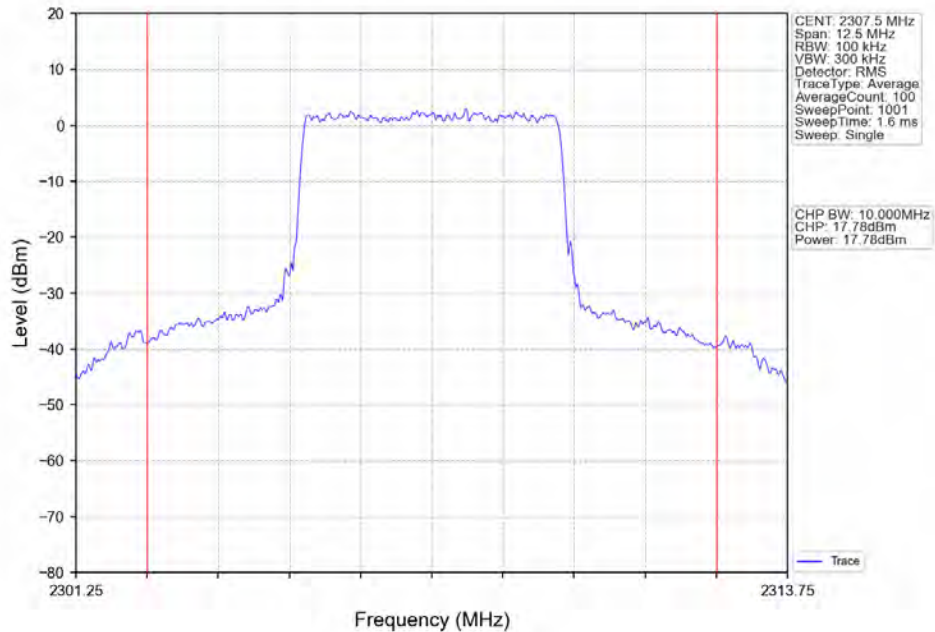
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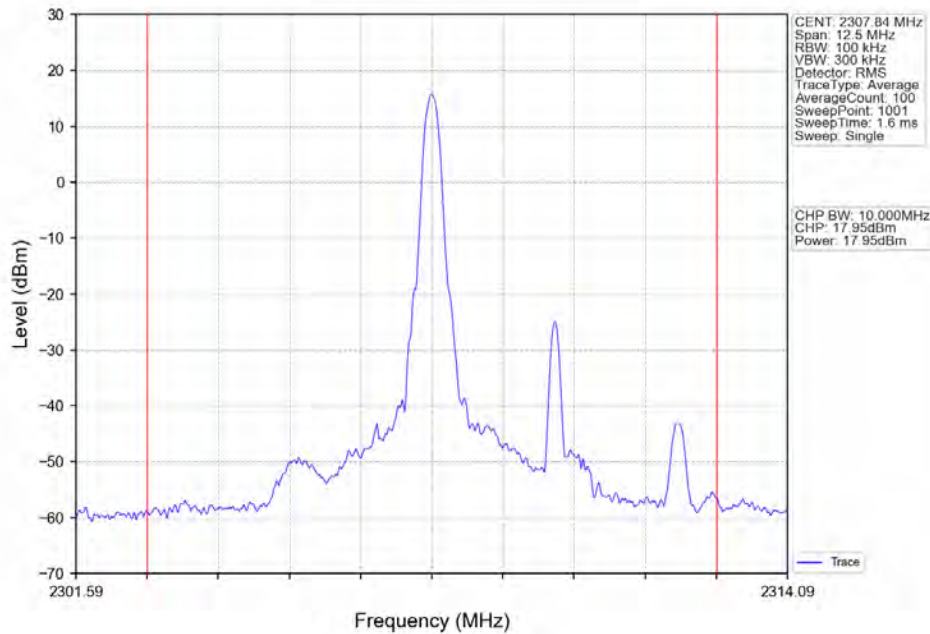
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Band30_5MHz_256QAM_MCH_2310MHz_RB_1_13_NTNV



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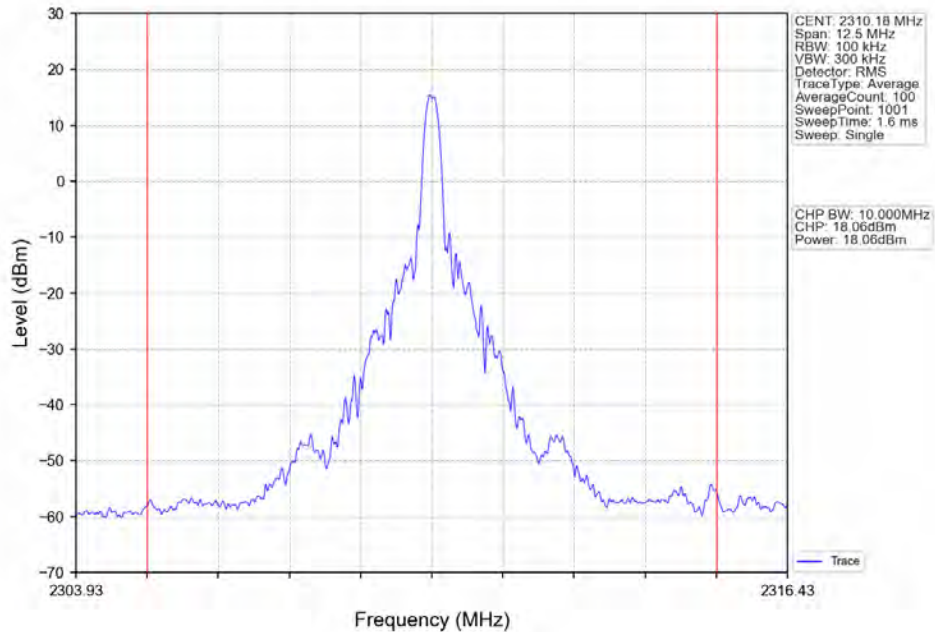
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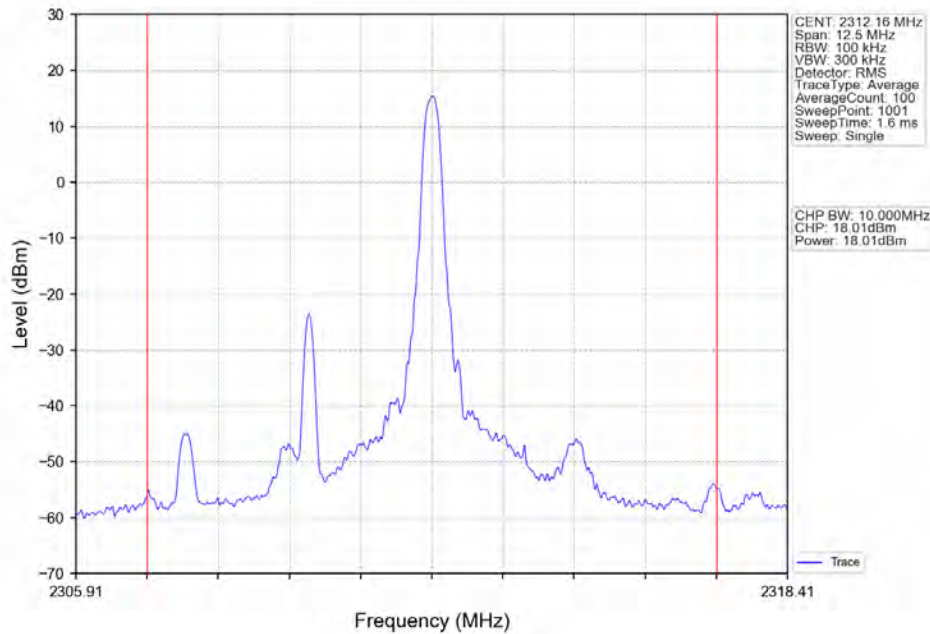
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Band30_5MHz_256QAM_MCH_2310MHz_RB_12_0_NTNV



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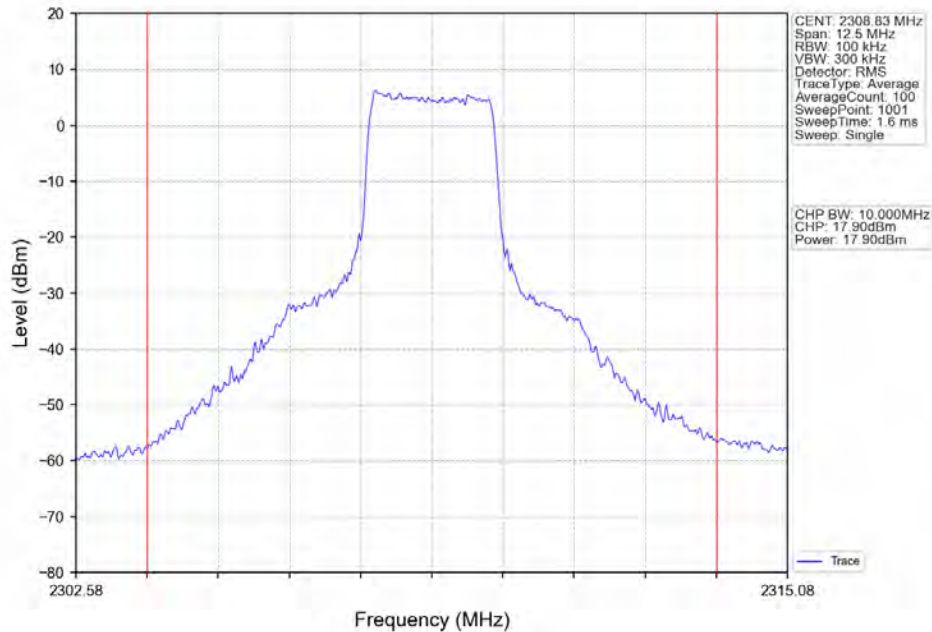
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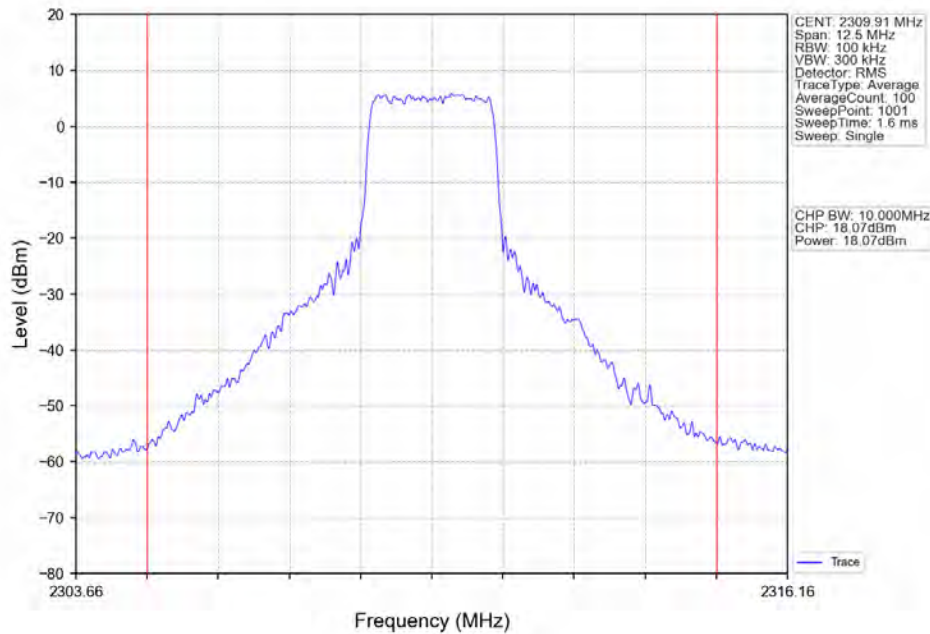
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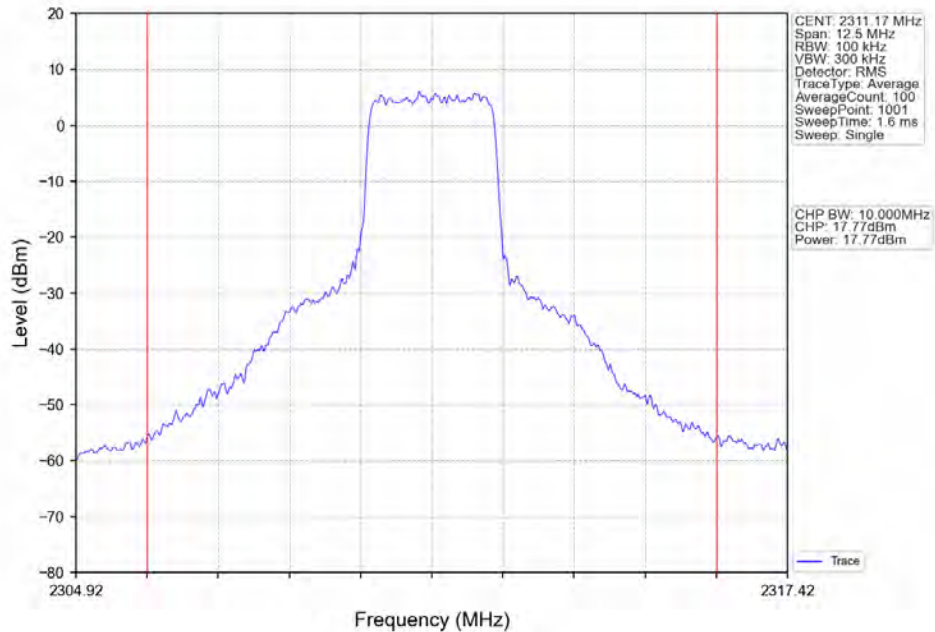
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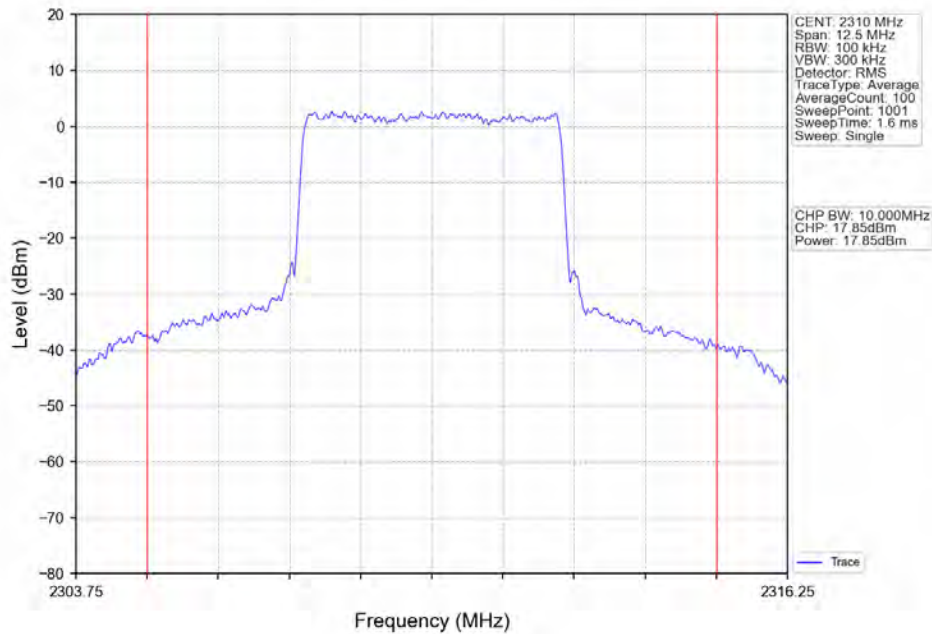
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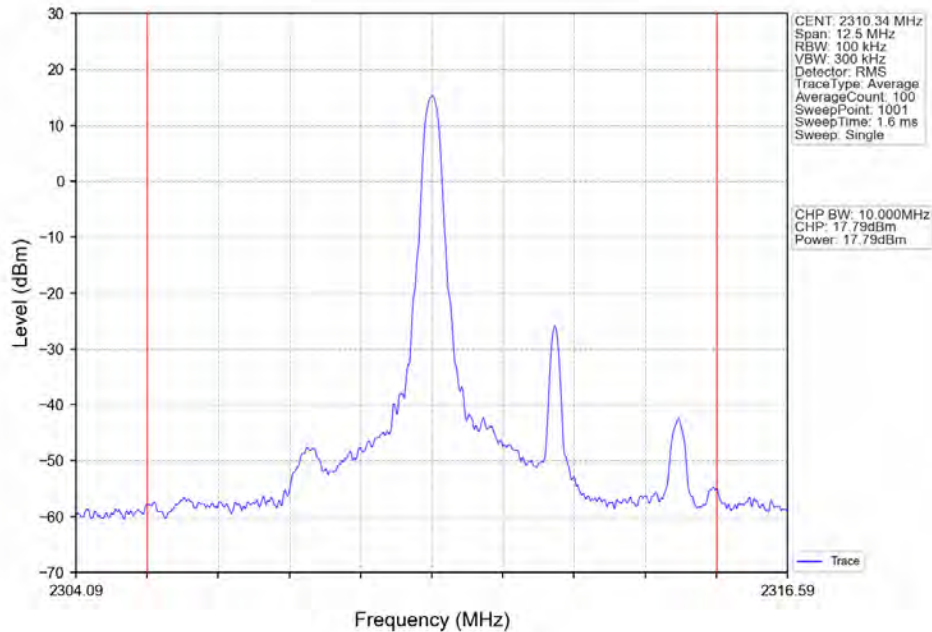
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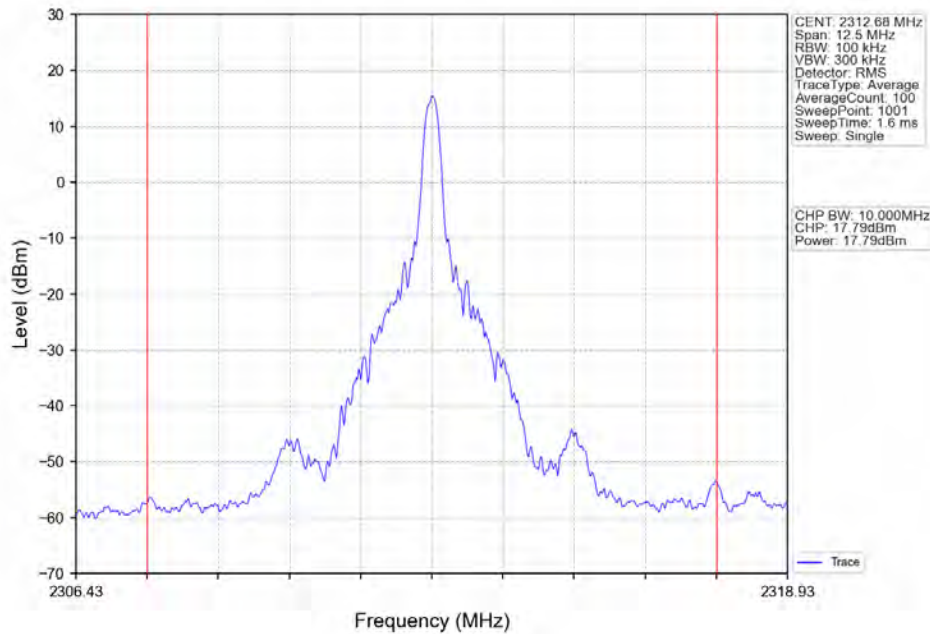
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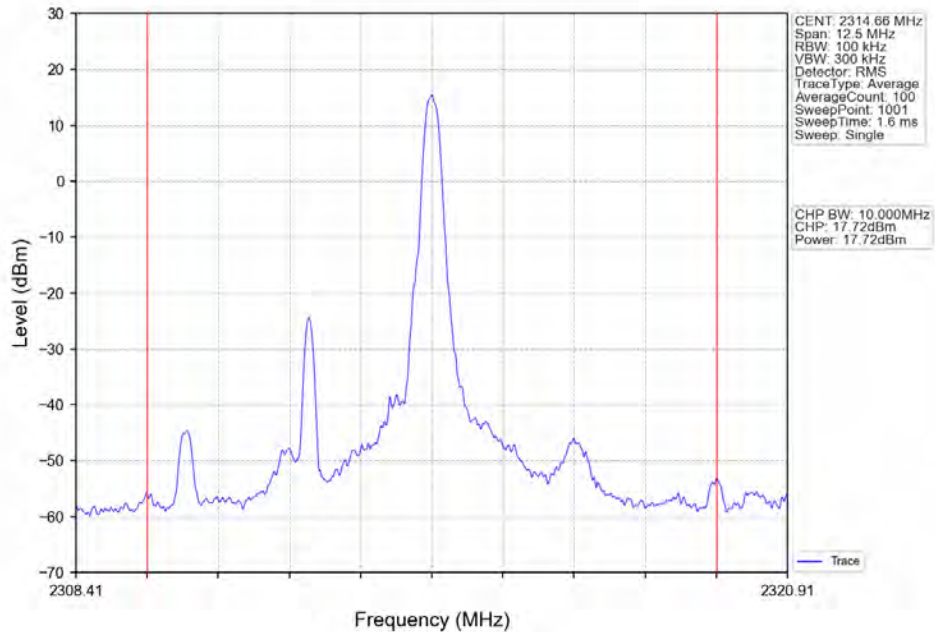
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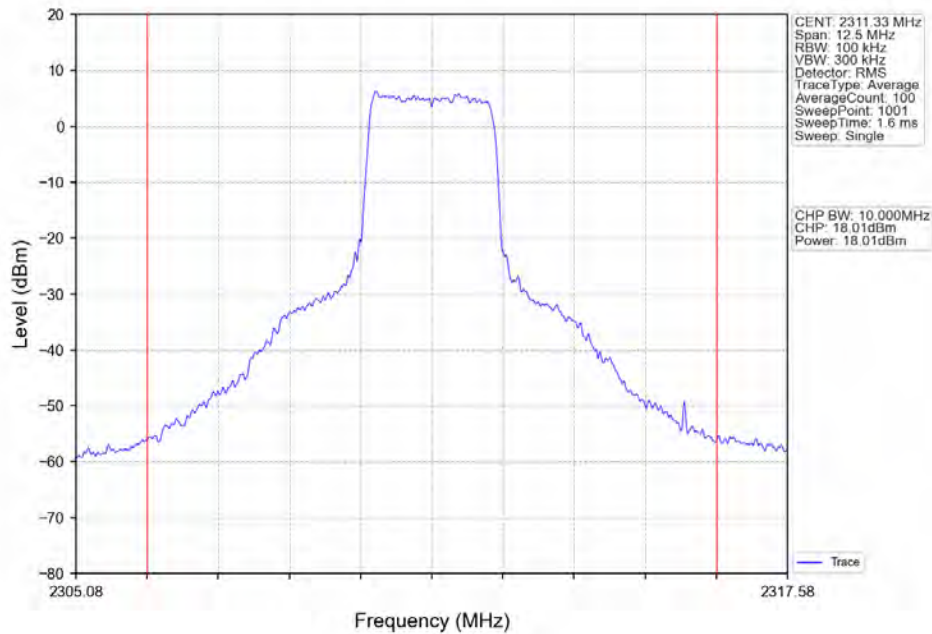
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Band30_5MHz_256QAM_HCH_2312.5MHz_RB_12_0_NTNV



Band30_5MHz_256QAM_HCH_2312.5MHz_RB_12_6_NTNV



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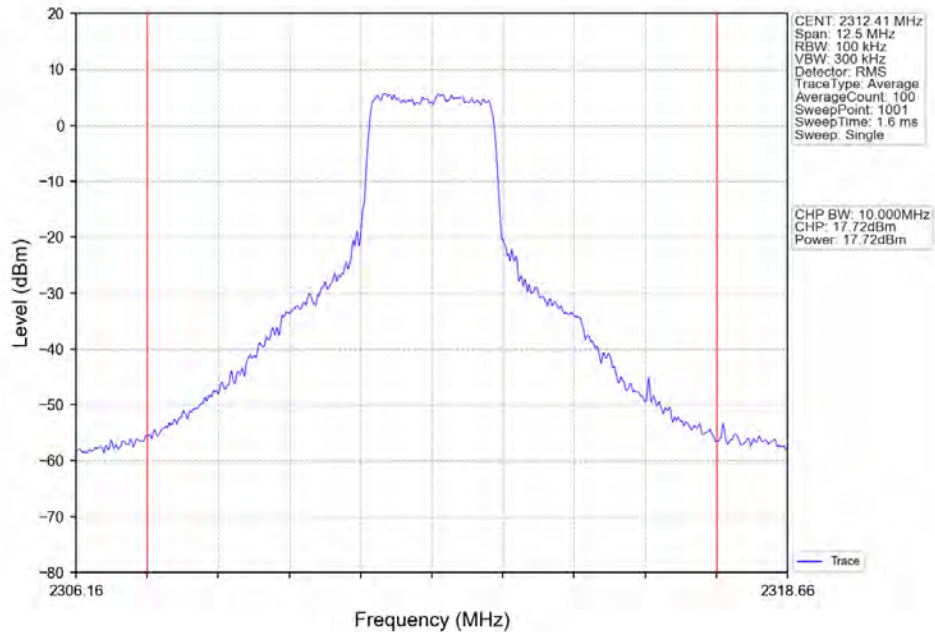
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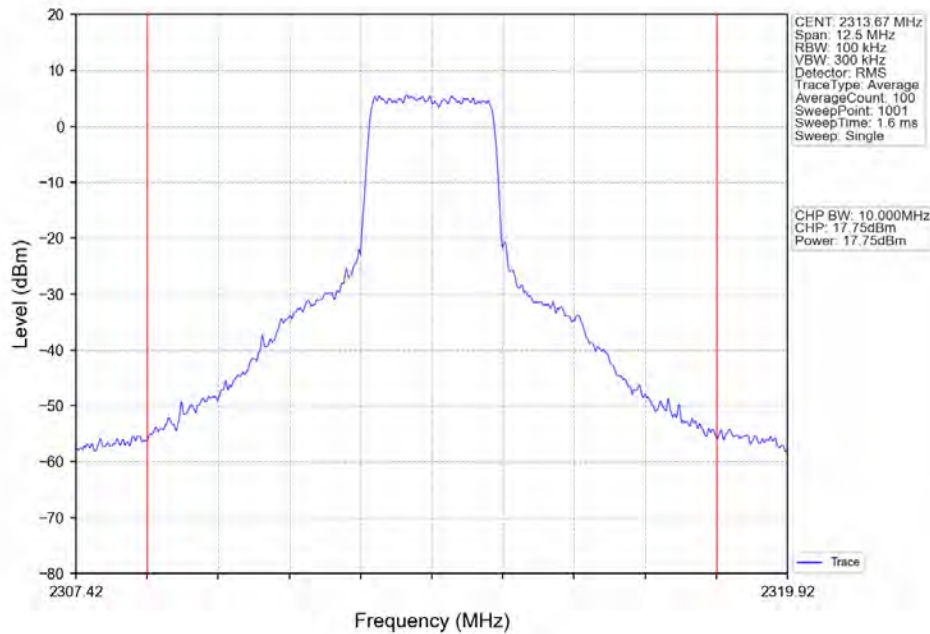
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Band30_5MHz_256QAM_HCH_2312.5MHz_RB_12_13_NTNV



Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



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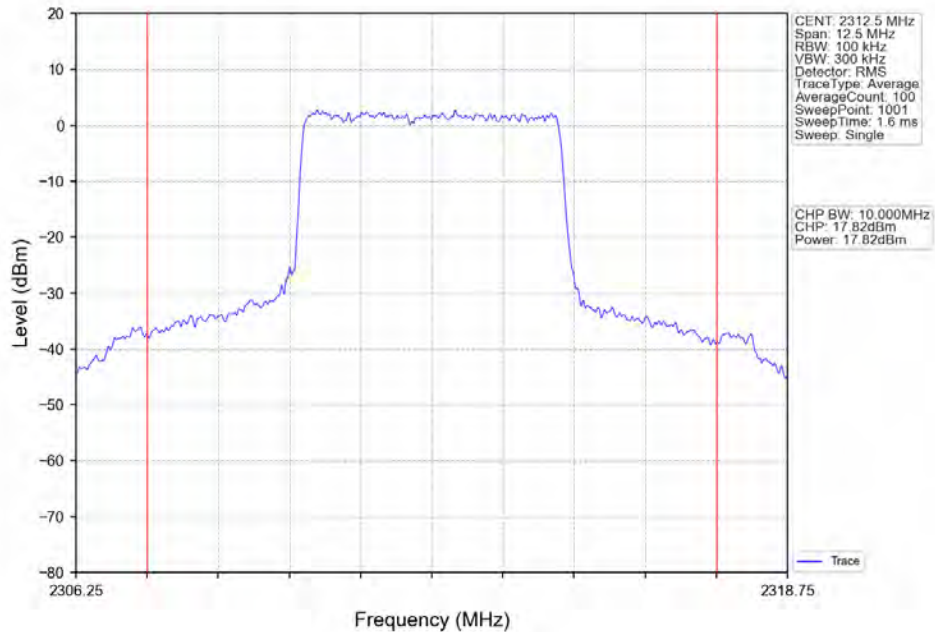
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1.4 B30_10MHz_EIRP/10MHz

1.4.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/10MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.13	0.98	23.11	<=23.98	Pass
			25	22.4	0.98	23.38	<=23.98	Pass
			49	22.44	0.98	23.42	<=23.98	Pass
		25	0	21.52	0.98	22.5	<=23.98	Pass
			13	21.44	0.98	22.42	<=23.98	Pass
			25	21.51	0.98	22.49	<=23.98	Pass
		50	0	21.46	0.98	22.44	<=23.98	Pass
			0	21.64	0.98	22.62	<=23.98	Pass
			25	21.88	0.98	22.86	<=23.98	Pass
16QAM	2310	1	0	21.64	0.98	22.62	<=23.98	Pass
			25	21.88	0.98	22.86	<=23.98	Pass
			49	21.6	0.98	22.58	<=23.98	Pass
		25	0	20.5	0.98	21.48	<=23.98	Pass
			13	20.56	0.98	21.54	<=23.98	Pass
			25	20.47	0.98	21.45	<=23.98	Pass
		50	0	20.52	0.98	21.5	<=23.98	Pass
			0	20.62	0.98	21.6	<=23.98	Pass
			25	20.69	0.98	21.67	<=23.98	Pass
64QAM	2310	1	0	20.62	0.98	21.6	<=23.98	Pass
			25	20.69	0.98	21.67	<=23.98	Pass
			49	20.78	0.98	21.76	<=23.98	Pass
		25	0	18.44	0.98	19.42	<=23.98	Pass
			13	19.3	0.98	20.28	<=23.98	Pass
			25	19.53	0.98	20.51	<=23.98	Pass
		50	0	18.41	0.98	19.39	<=23.98	Pass
			0	17.14	0.98	18.12	<=23.98	Pass
			25	16.39	0.98	17.37	<=23.98	Pass
256QAM	2310	1	0	17.14	0.98	18.12	<=23.98	Pass
			25	16.39	0.98	17.37	<=23.98	Pass
			49	17.51	0.98	18.49	<=23.98	Pass
		25	0	17.35	0.98	18.33	<=23.98	Pass
			13	17.54	0.98	18.52	<=23.98	Pass
			25	17.14	0.98	18.12	<=23.98	Pass
		50	0	15.8	0.98	16.78	<=23.98	Pass
			0	15.8	0.98	16.78	<=23.98	Pass
			25	15.8	0.98	16.78	<=23.98	Pass

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



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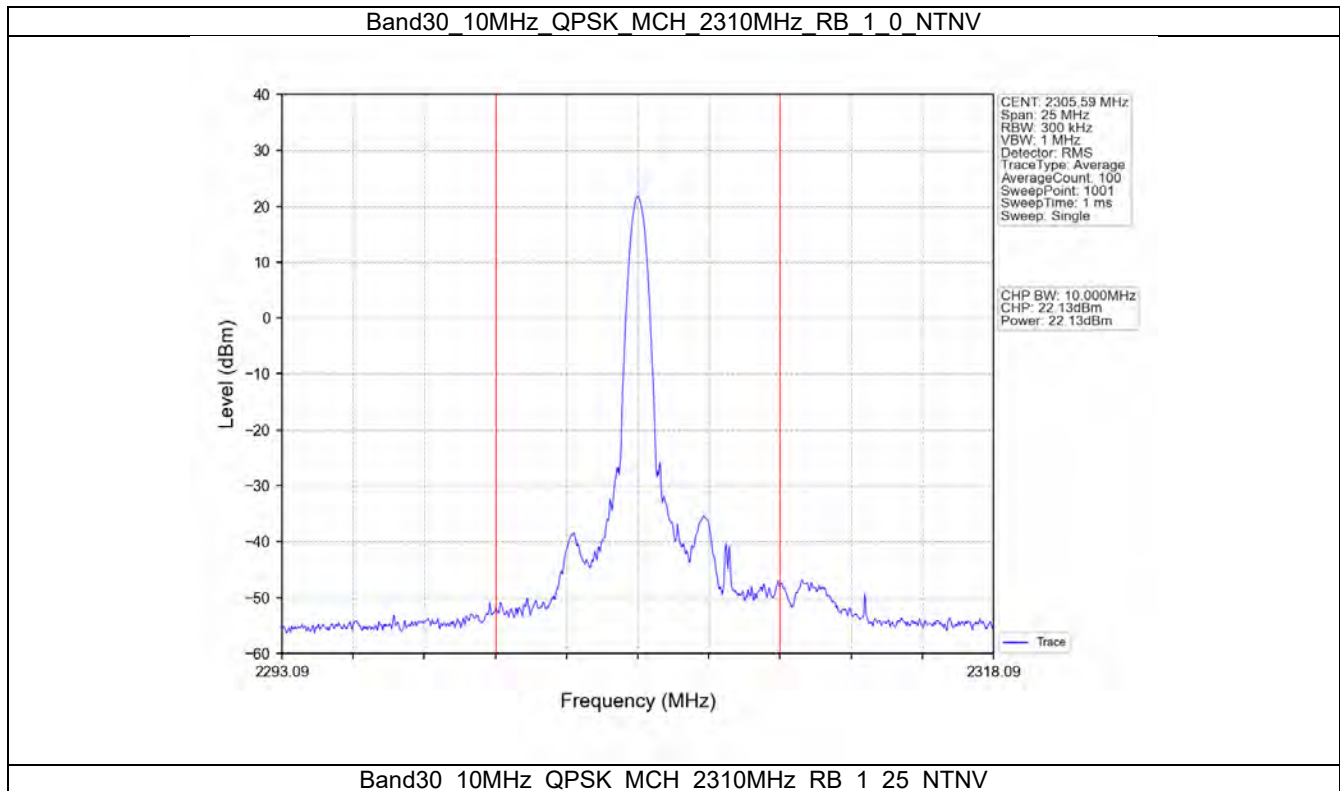
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1.4.2 Test Graph



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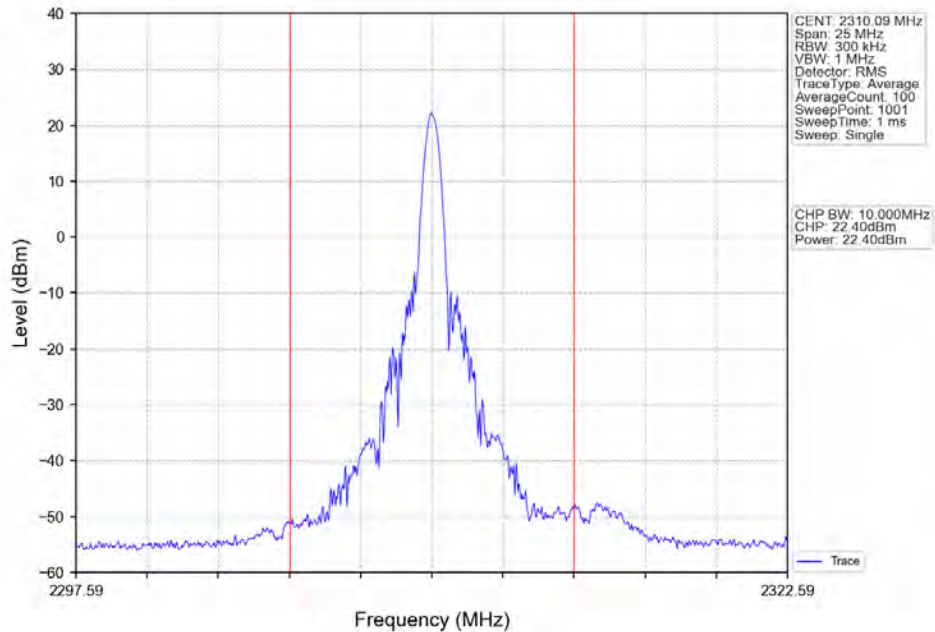
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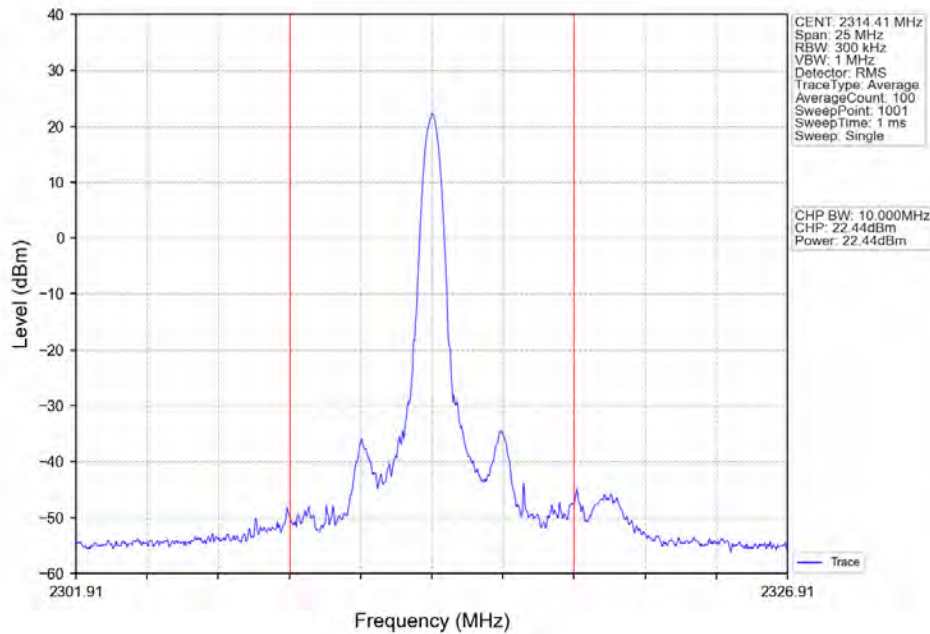
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Band30_10MHz_QPSK_MCH_2310MHz_RB_1_49_NTNV



Band30_10MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



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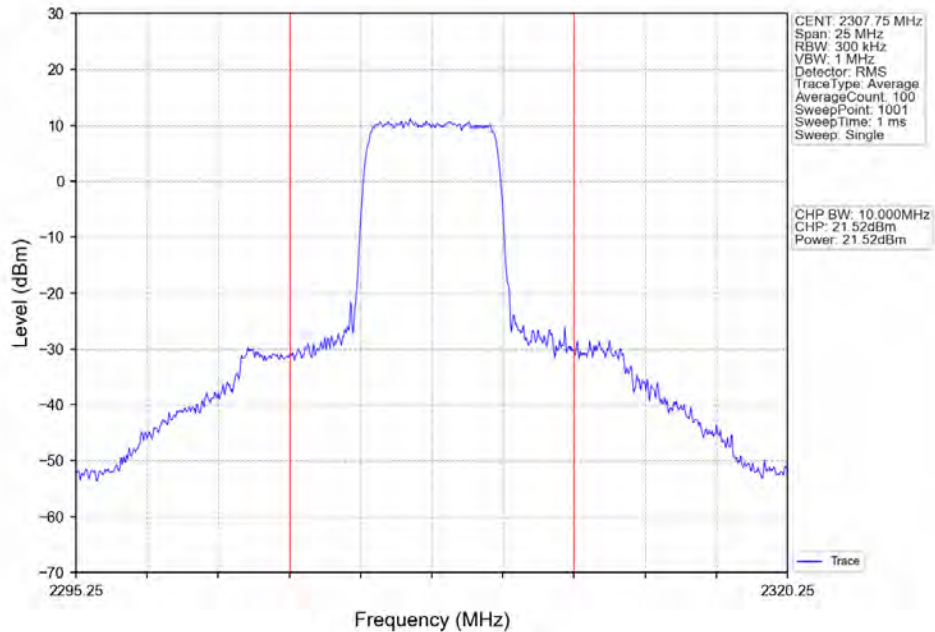
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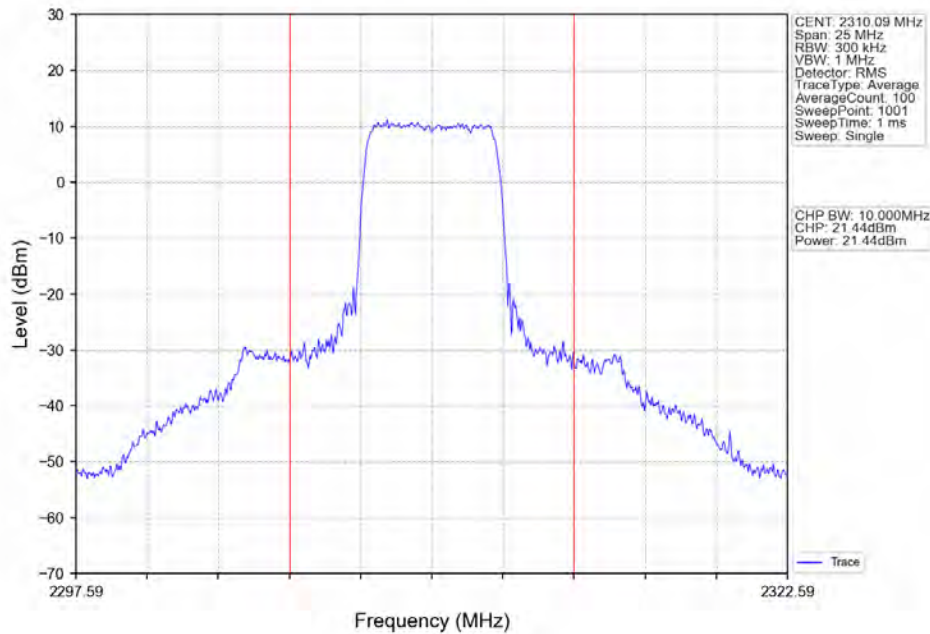
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Band30 10MHz QPSK MCH 2310MHz RB 25 13 NTN



Band30 10MHz QPSK MCH 2310MHz RB 25 25 NTN



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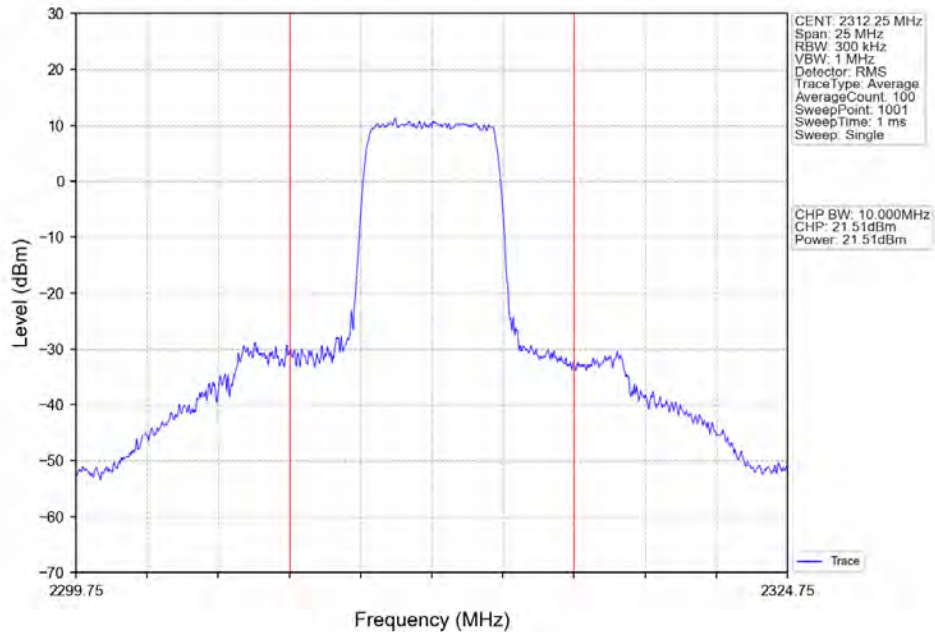
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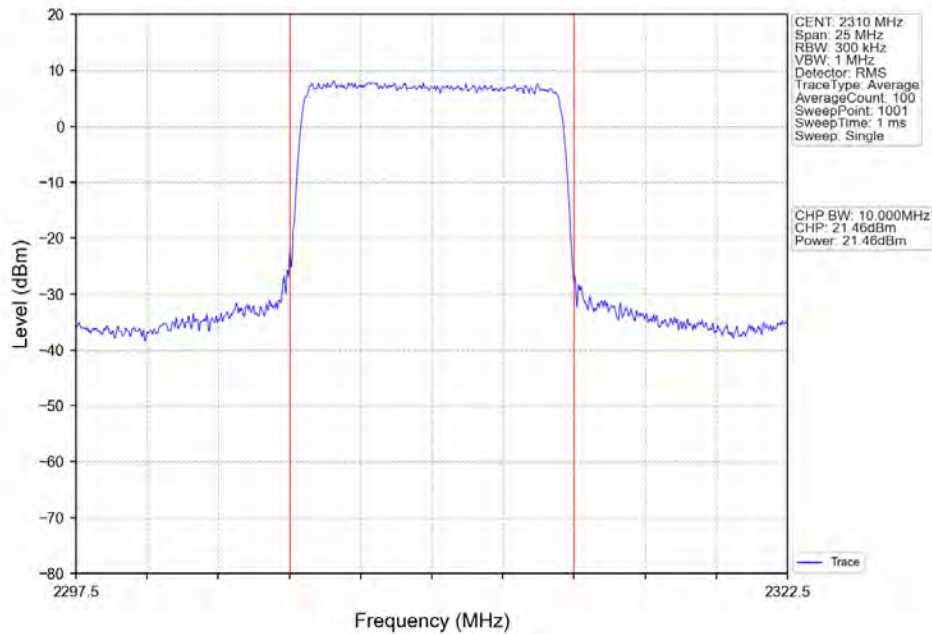
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Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



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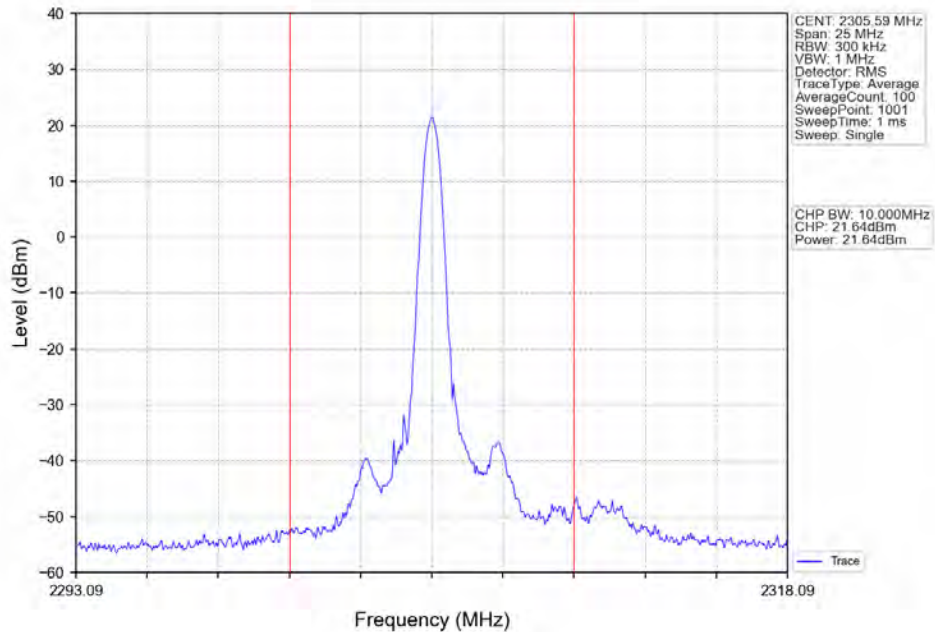
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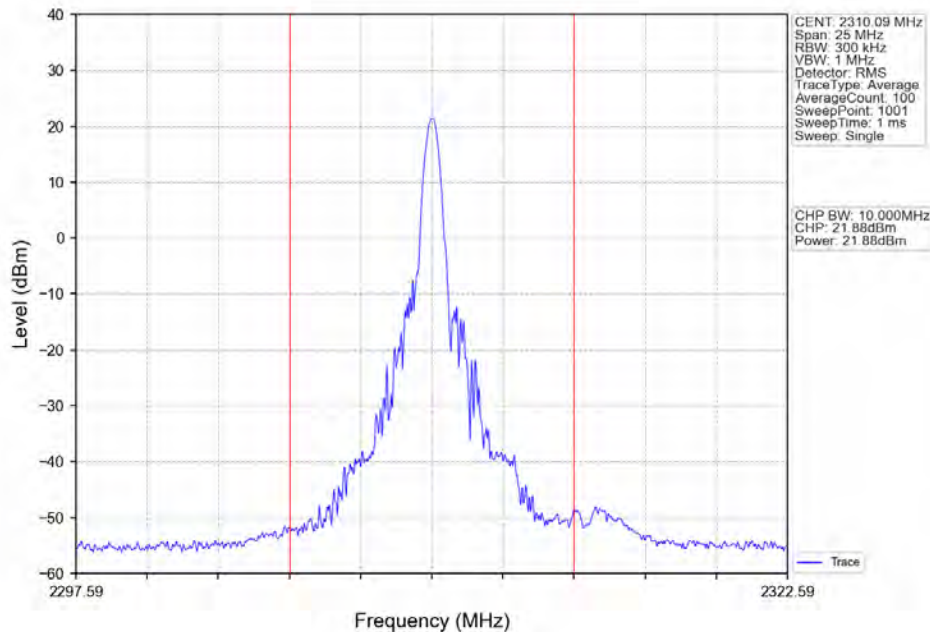
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Band30_10MHz_16QAM_MCH_2310MHz_RB_1_49_NTNV



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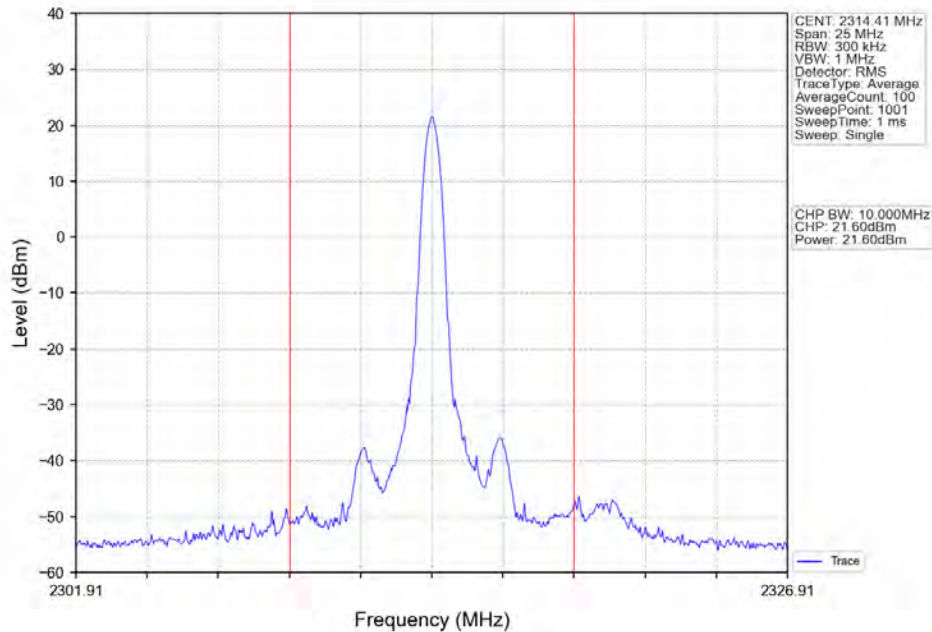
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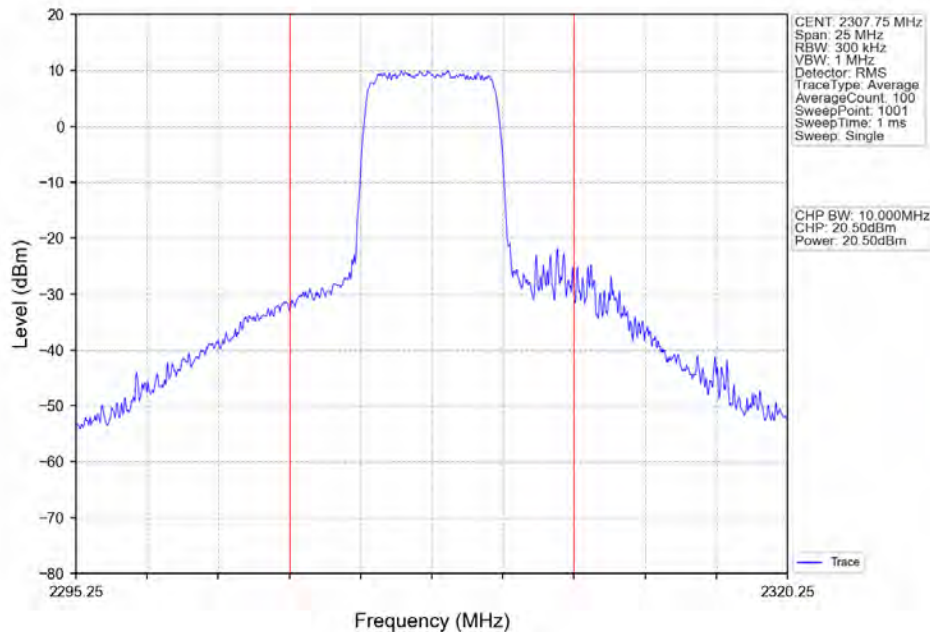
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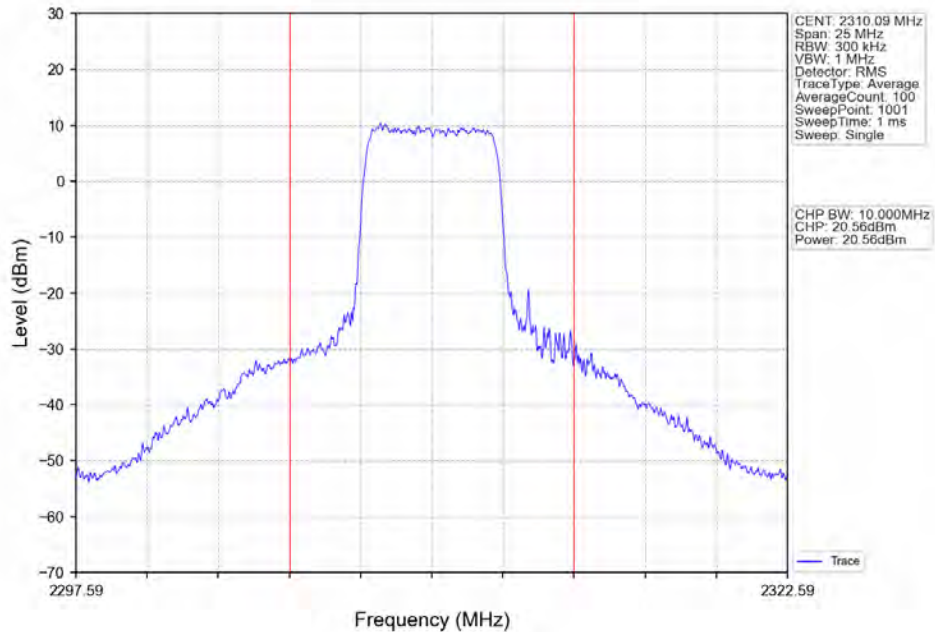
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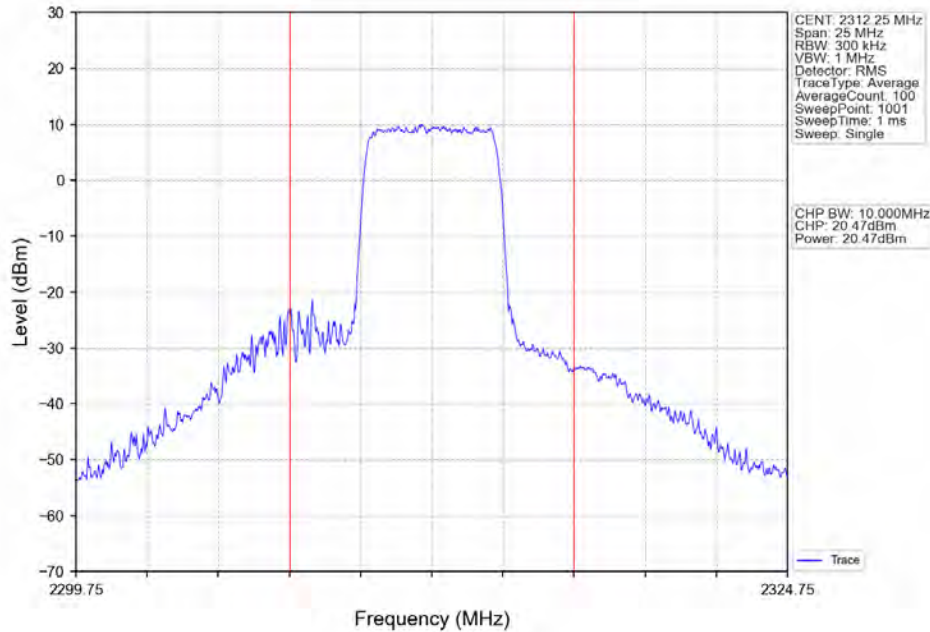
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Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



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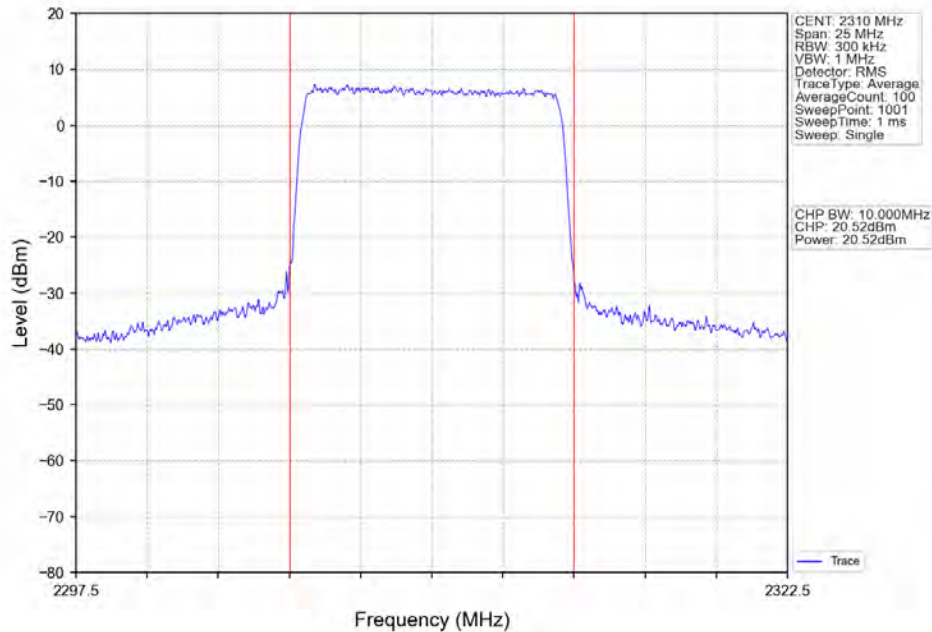
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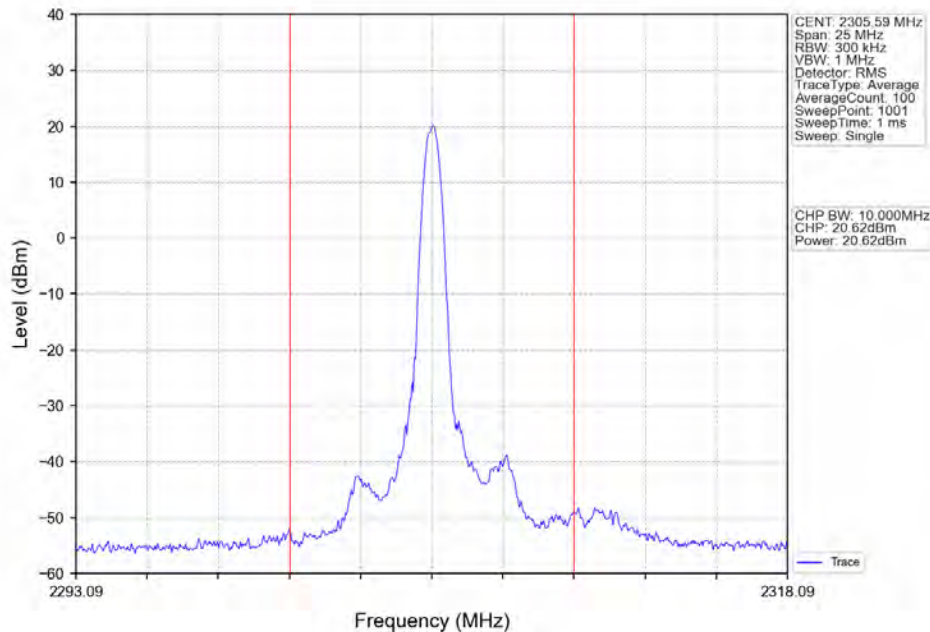
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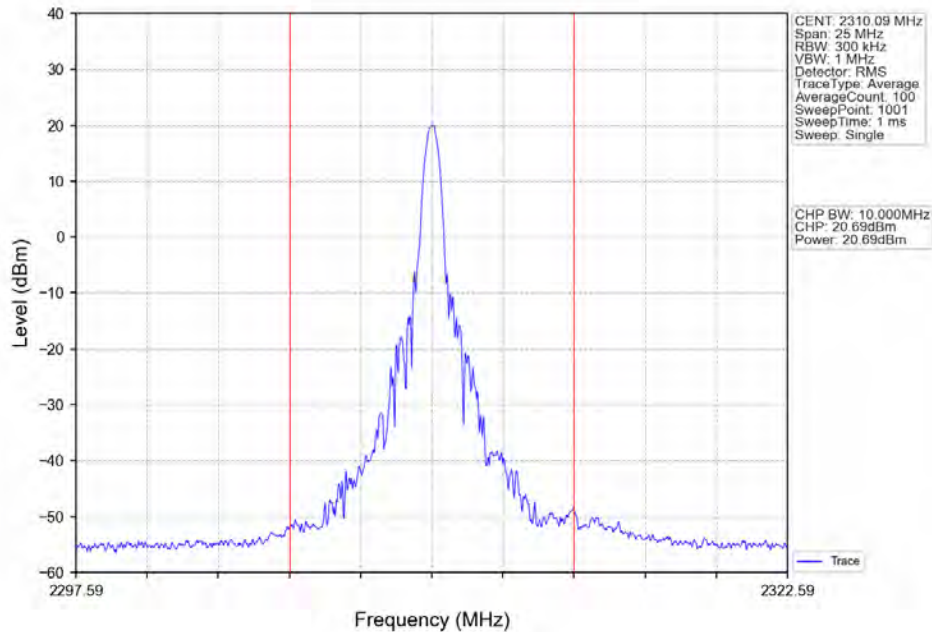
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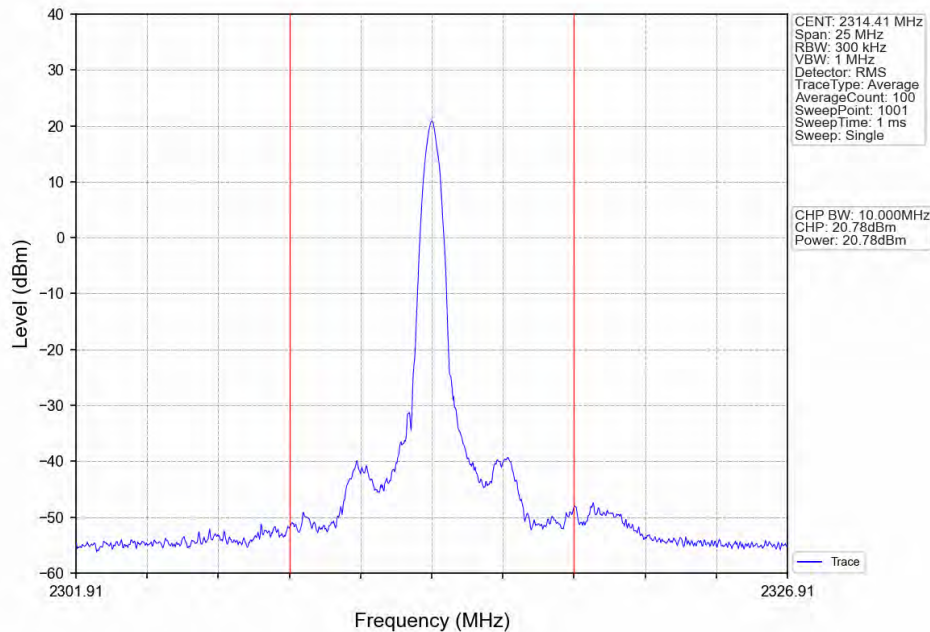
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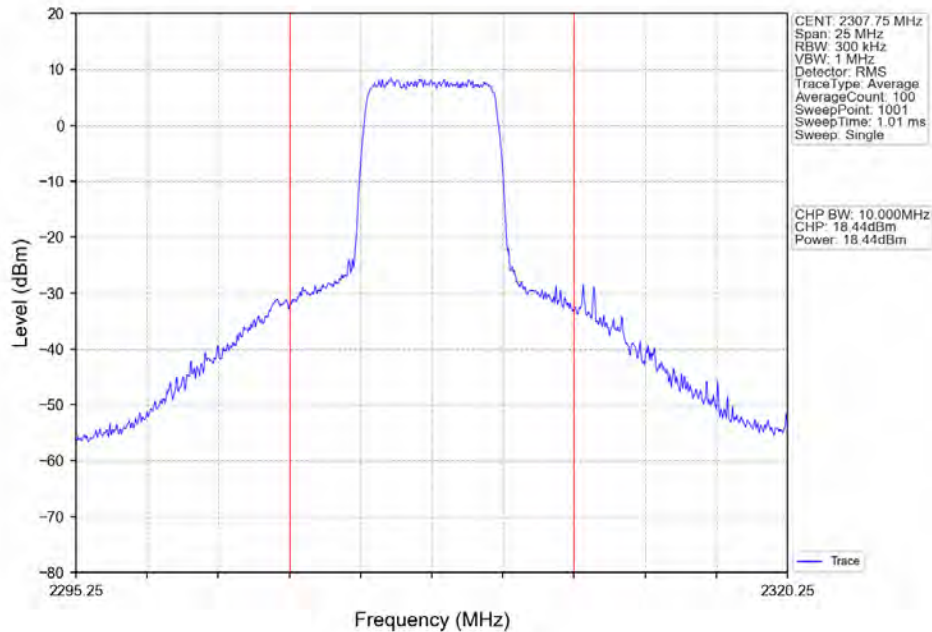
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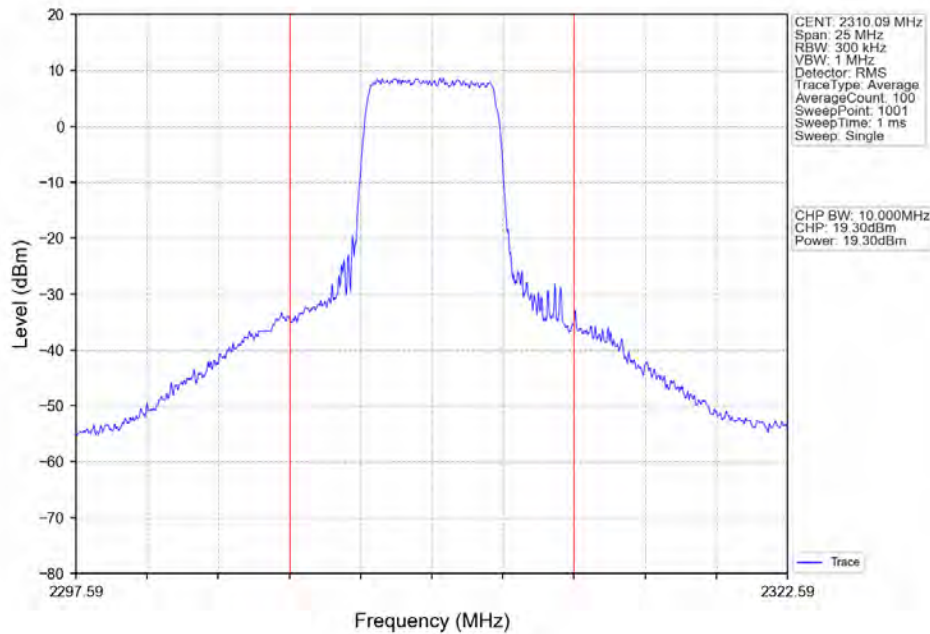
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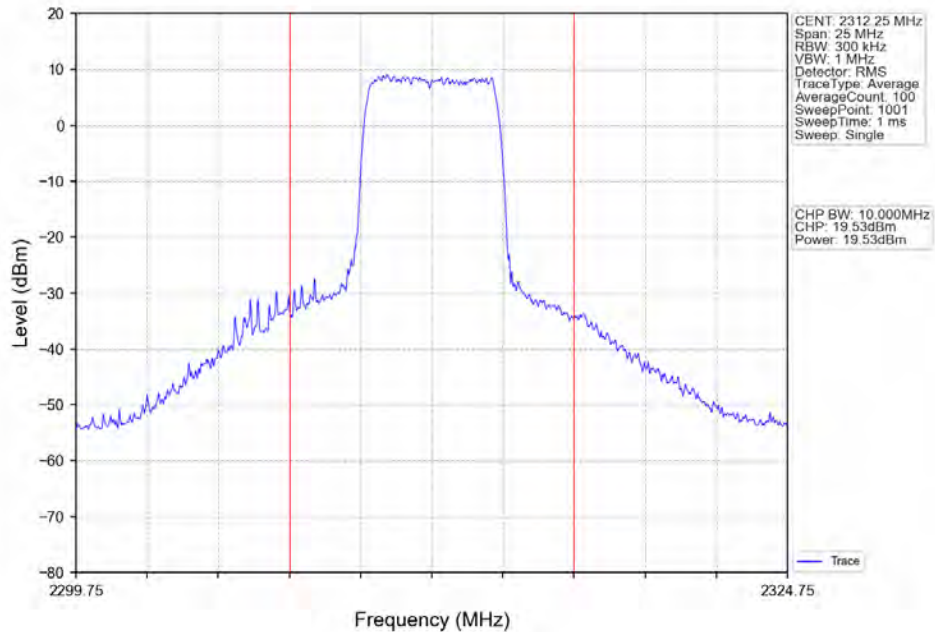
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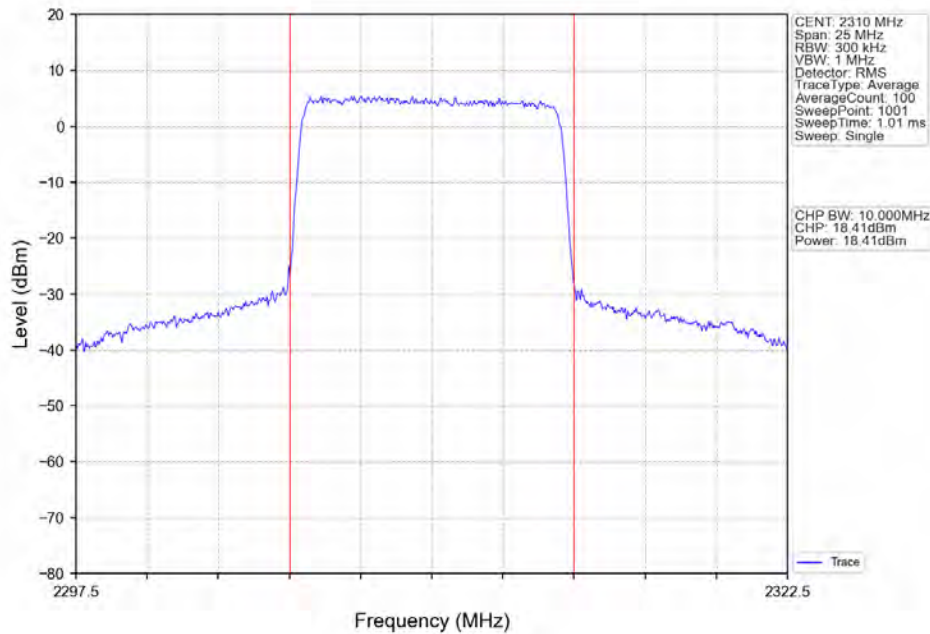
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Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_1_0_NTNV



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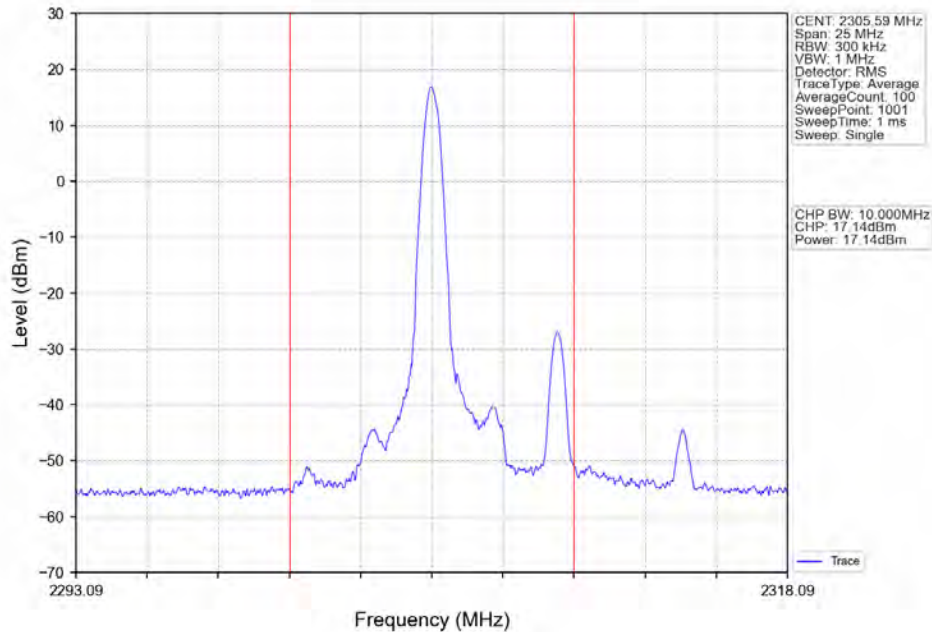
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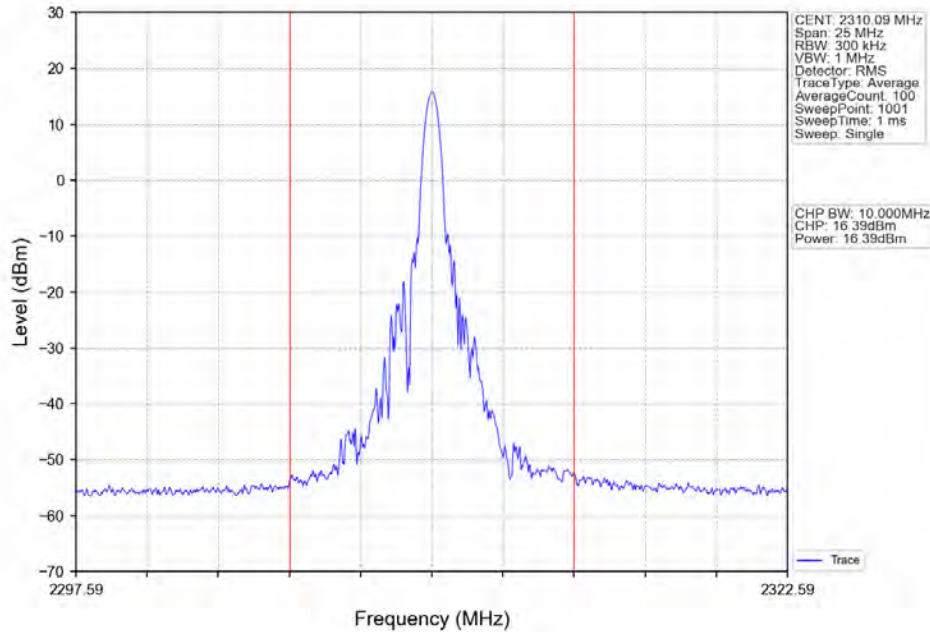
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Band30_10MHz_256QAM_MCH_2310MHz_RB_1_25_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_1_49_NTNV



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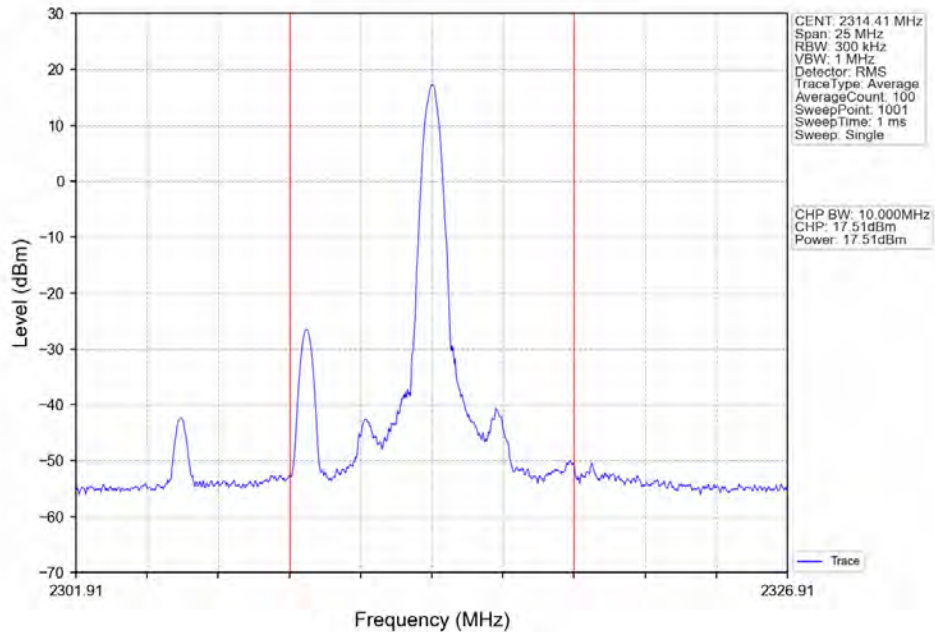
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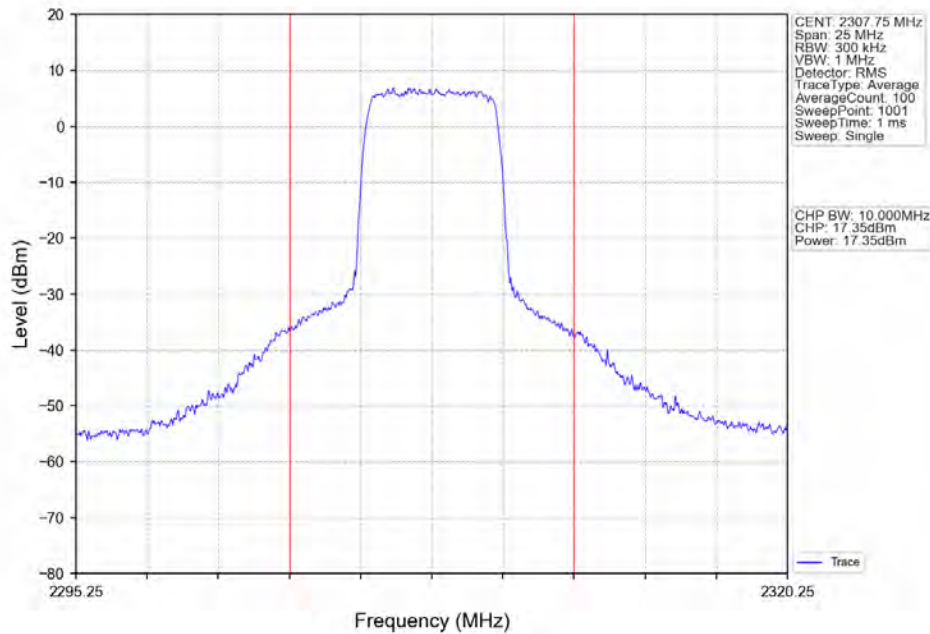
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Band30_10MHz_256QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_25_13_NTNV



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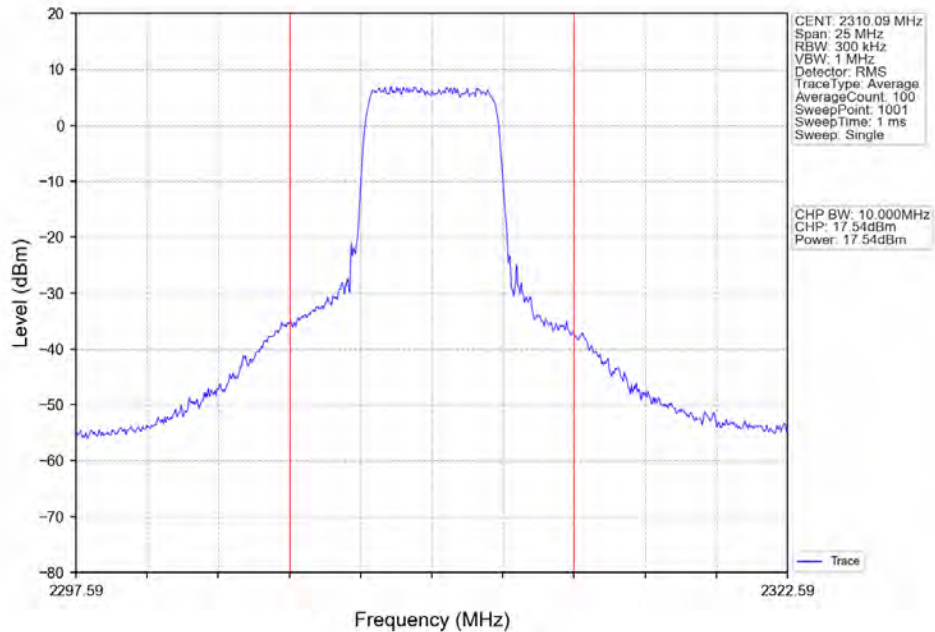
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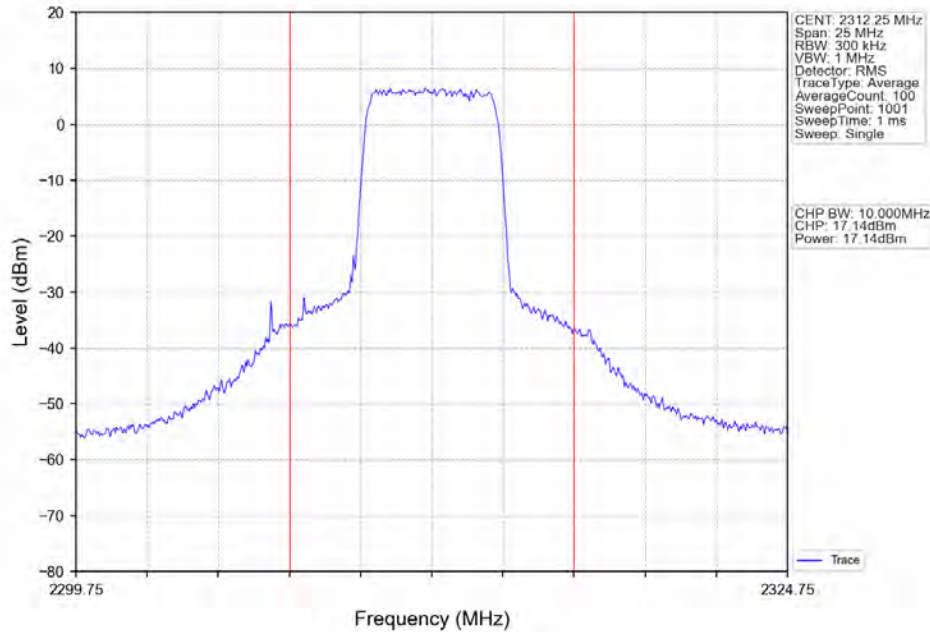
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Band30_10MHz_256QAM_MCH_2310MHz_RB_25_25_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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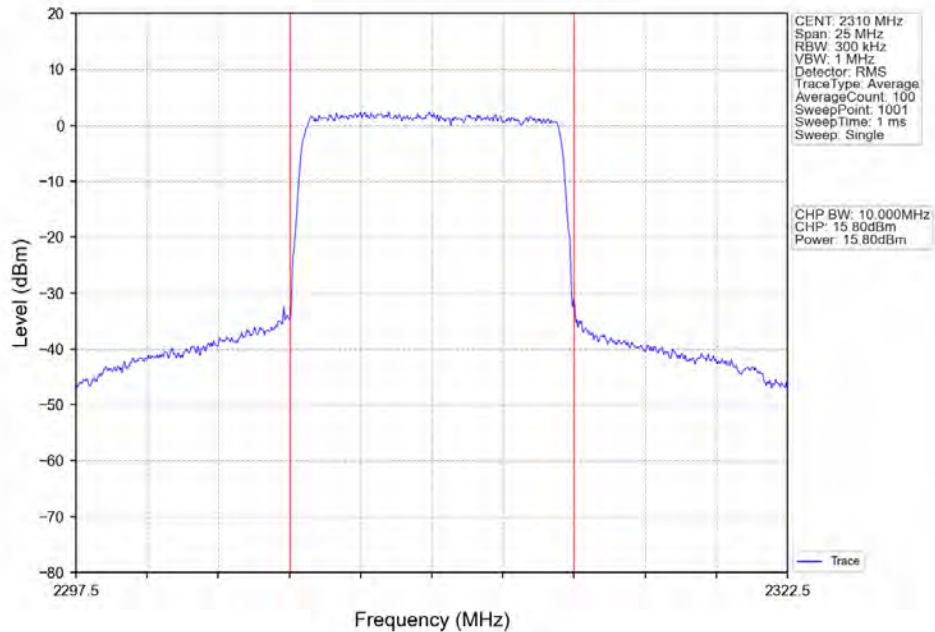
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2. Frequency Stability

2.2 B30_10MHz

2.2.1 Test Result

Band: 30 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	3.135	-1.783	-0.0008	/	Pass
					3.7	-1.756	-0.0008	/	Pass
					4.4	0.132	0.0001	/	Pass
				-30	3.7	-1.296	-0.0006	/	Pass
				-20	3.7	-1.992	-0.0009	/	Pass
				-10	3.7	-1.676	-0.0007	/	Pass
				0	3.7	0.079	0.0000	/	Pass
				10	3.7	-1.074	-0.0005	/	Pass
				30	3.7	-2.415	-0.0010	/	Pass
				40	3.7	0.322	0.0001	/	Pass
				50	3.7	-2.145	-0.0009	/	Pass



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3. Field Strength of Spurious Radiation

For report SUCR240400009001:

Test Band = LTE_B30_10Hz

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3143.5	53.65	-49.81	30.27	-61.15	-40.00	21.15	Horizontal
2	4337.5	54.20	-48.78	31.88	-57.96	-40.00	17.96	Horizontal
3	5805.5	52.02	-45.98	34.10	-55.12	-40.00	15.12	Horizontal
4	8988	50.30	-41.30	38.73	-47.53	-40.00	7.53	Horizontal
5	11829	48.27	-38.14	39.78	-45.35	-40.00	5.35	Horizontal
6	17197	48.34	-36.39	38.20	-45.11	-40.00	5.11	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3606	55.19	-49.54	30.22	-59.39	-40.00	19.39	Vertical
2	5316	53.16	-46.71	33.20	-55.61	-40.00	15.61	Vertical
3	7215.5	52.09	-44.23	37.13	-50.27	-40.00	10.27	Vertical
4	9509.5	49.26	-40.70	39.18	-47.52	-40.00	7.52	Vertical
5	11833.5	48.36	-38.14	39.77	-45.27	-40.00	5.27	Vertical
6	17313.5	48.04	-36.18	38.19	-45.21	-40.00	5.21	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



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For report SUCR240400008901:

Test Band = LTE_30_TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3453	47.61	-44.29	28.91	-63.03	-40.00	23.03	Horizontal
2	5134.5	45.99	-42.25	31.71	-59.81	-40.00	19.81	Horizontal
3	7840.5	43.30	-37.51	36.76	-52.71	-40.00	12.71	Horizontal
4	11024.5	42.73	-34.05	40.12	-46.46	-40.00	6.46	Horizontal
5	14807.5	41.52	-32.54	41.56	-44.72	-40.00	4.72	Horizontal
6	17987	40.81	-39.76	47.97	-46.24	-40.00	6.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3489	47.46	-44.36	29.06	-63.10	-40.00	23.10	Vertical
2	4611	47.69	-42.90	30.12	-60.35	-40.00	20.35	Vertical
3	7154.5	44.37	-38.15	36.42	-52.62	-40.00	12.62	Vertical
4	11543.5	43.38	-34.56	40.24	-46.20	-40.00	6.20	Vertical
5	14803.5	41.33	-32.51	41.58	-44.86	-40.00	4.86	Vertical
6	17995	40.10	-39.77	48.11	-46.82	-40.00	6.82	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



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4. 99% & 26dB Bandwidth

4.1 Band30_OBW

4.1.1 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	4.574	/	Pass
		2310	25	0	4.581	/	Pass
		2312.5	25	0	4.568	/	Pass
	16QAM	2307.5	25	0	4.560	/	Pass
		2310	25	0	4.566	/	Pass
		2312.5	25	0	4.573	/	Pass
	64QAM	2307.5	25	0	4.565	/	Pass
		2310	25	0	4.556	/	Pass
		2312.5	25	0	4.569	/	Pass
	256QAM	2307.5	25	0	4.577	/	Pass
		2310	25	0	4.570	/	Pass
		2312.5	25	0	4.562	/	Pass
10	QPSK	2310	50	0	9.073	/	Pass
	16QAM	2310	50	0	9.081	/	Pass
	64QAM	2310	50	0	9.053	/	Pass
	256QAM	2310	50	0	9.061	/	Pass



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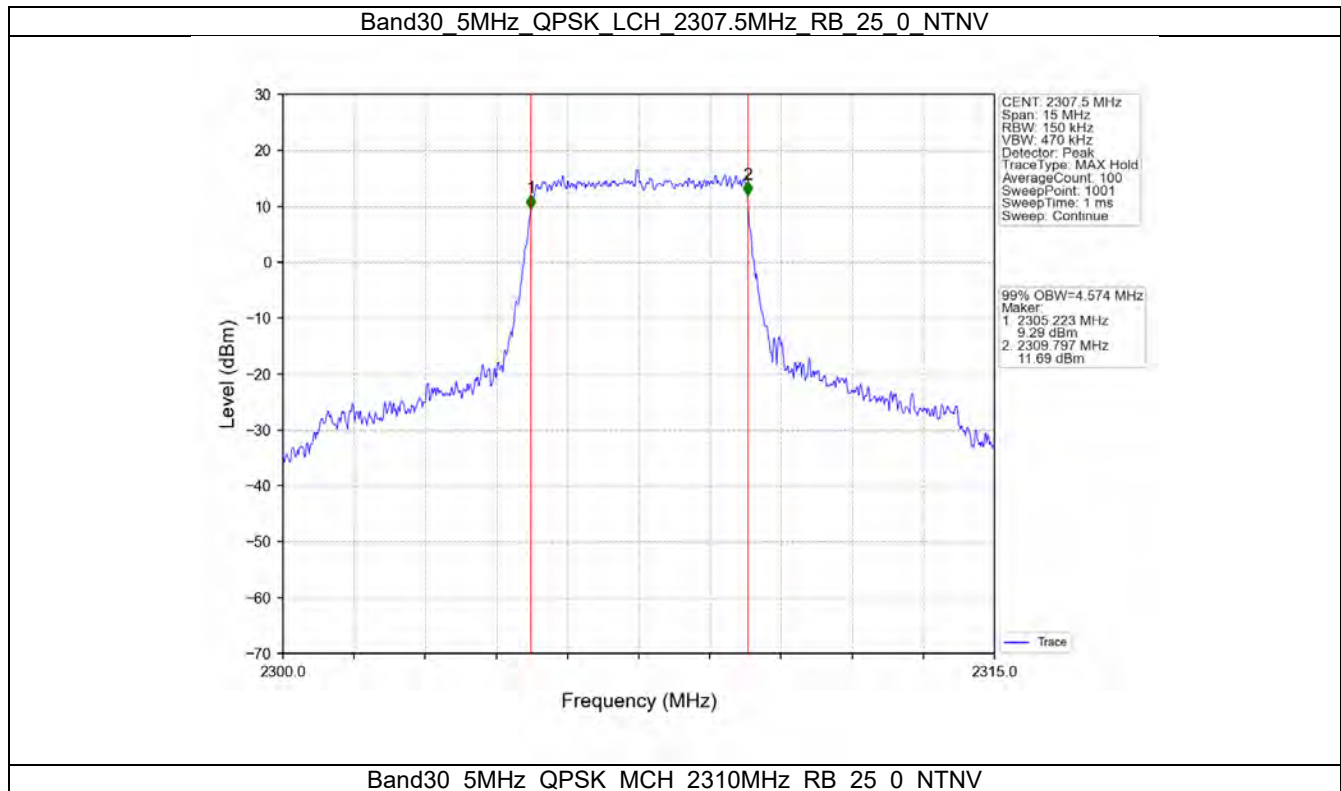
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4.1.2 Test Graph



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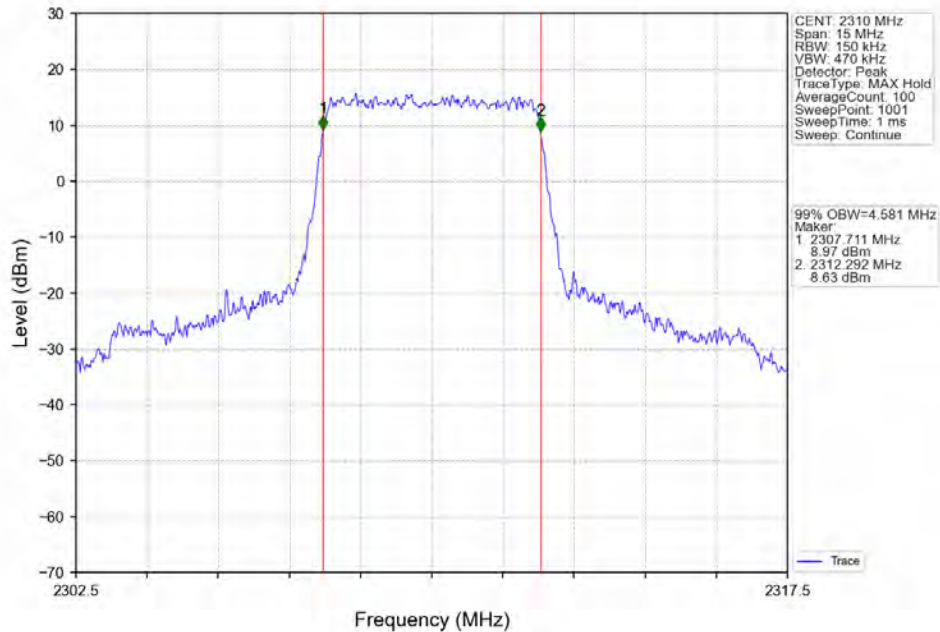
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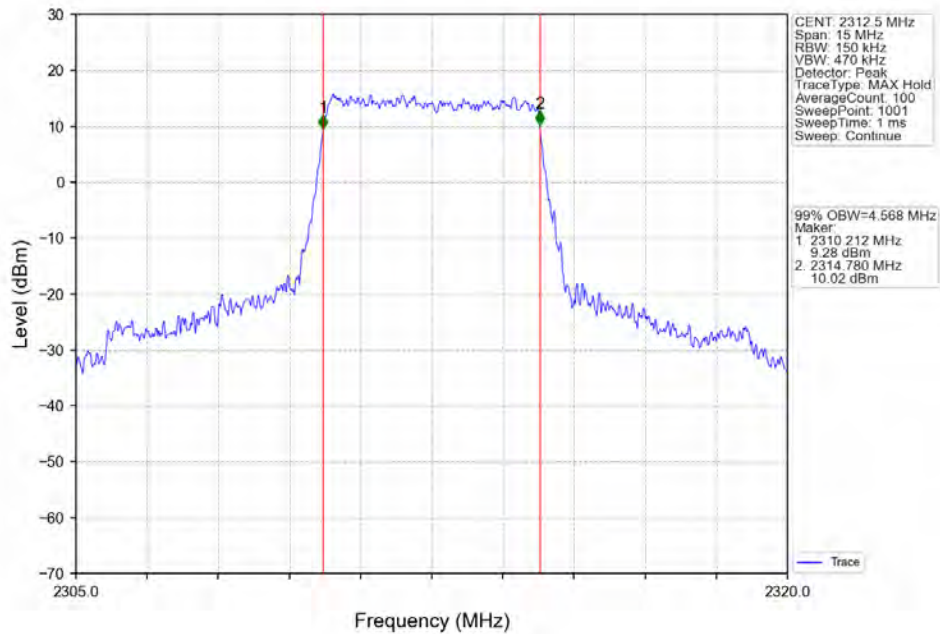
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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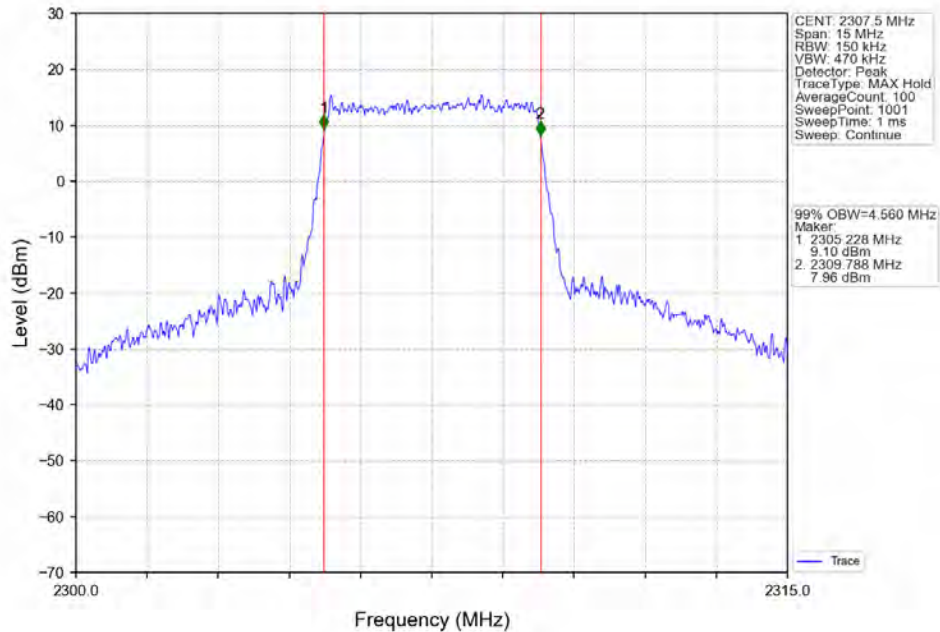
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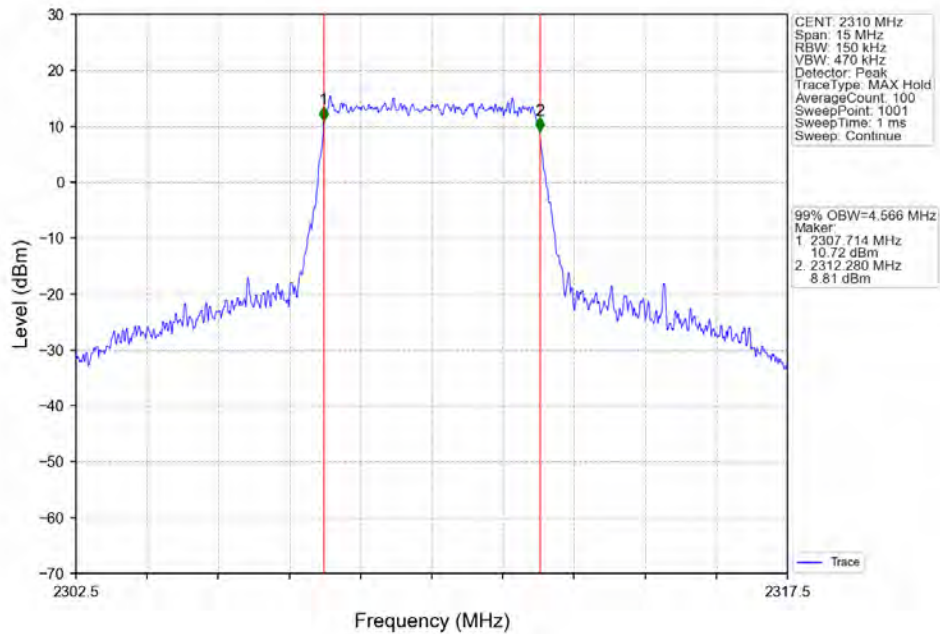
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Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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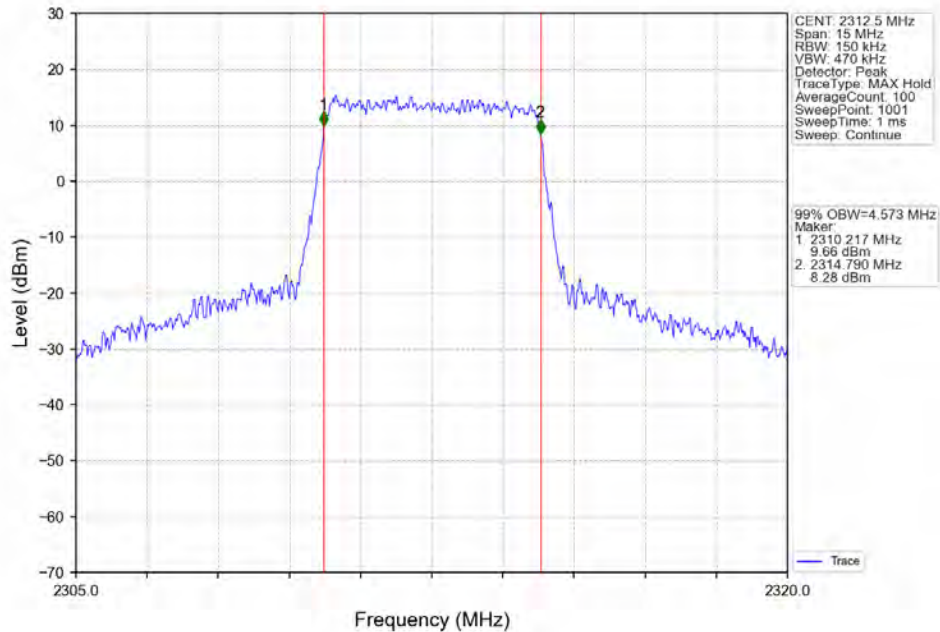
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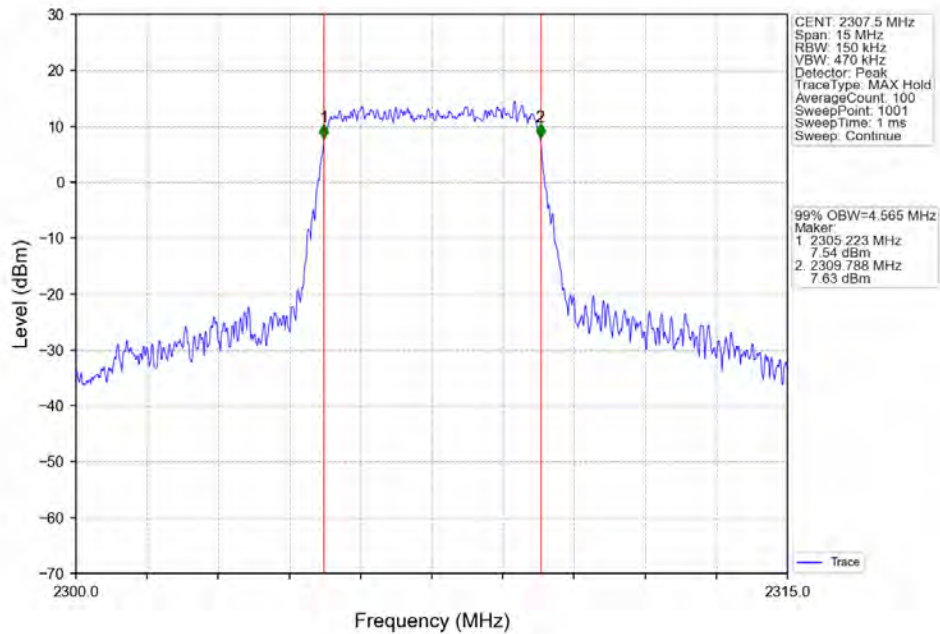
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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



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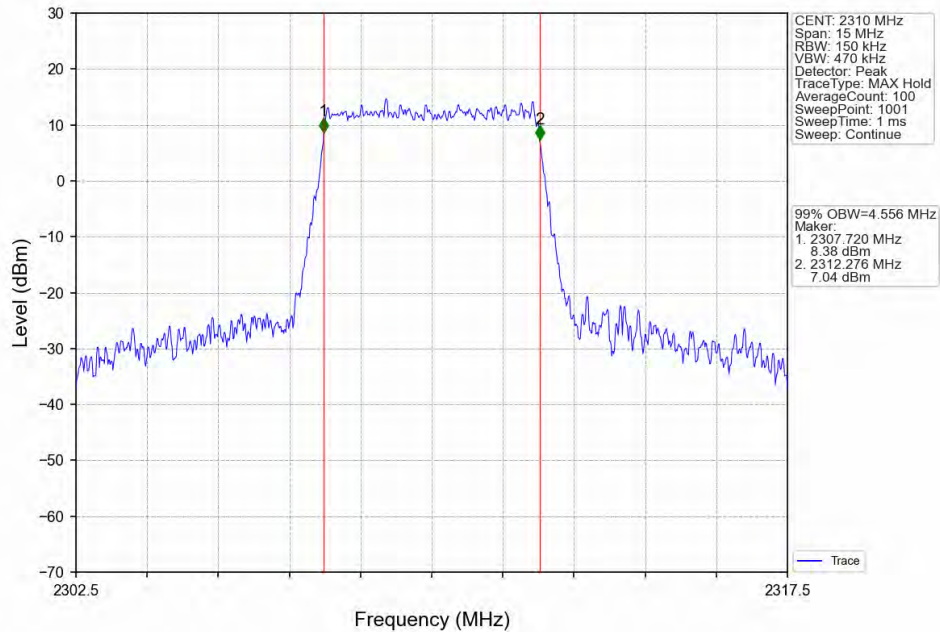
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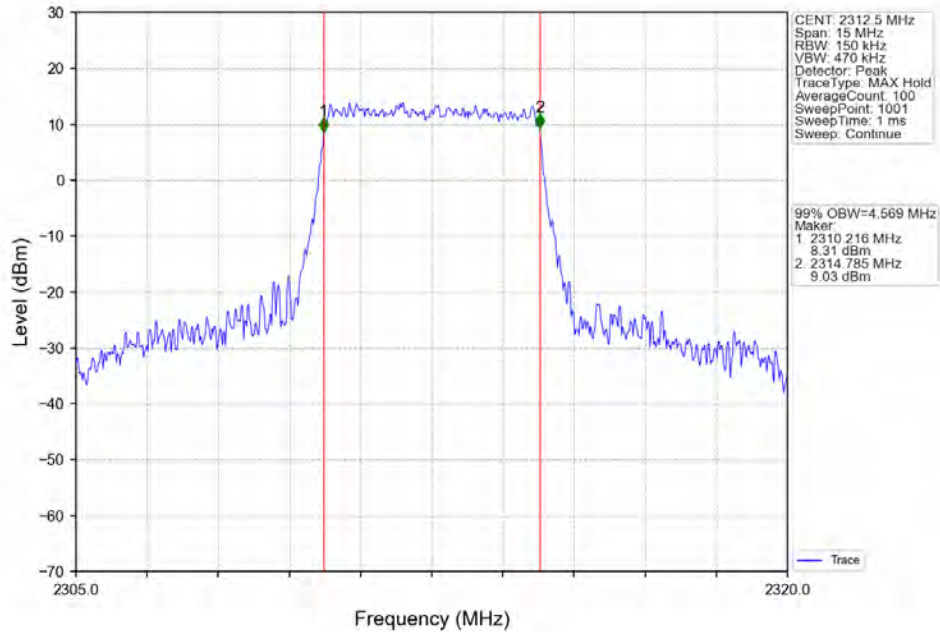
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Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



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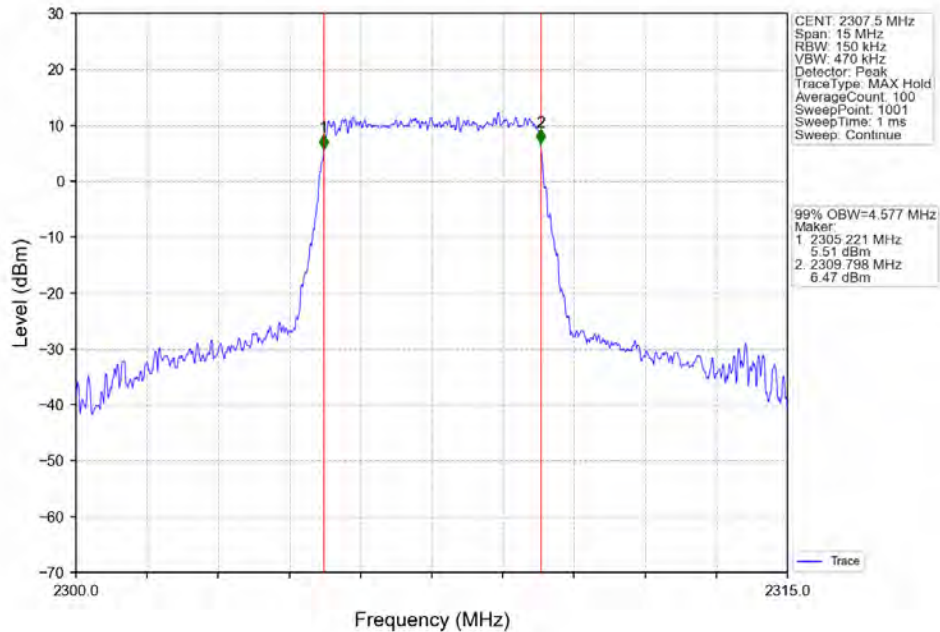
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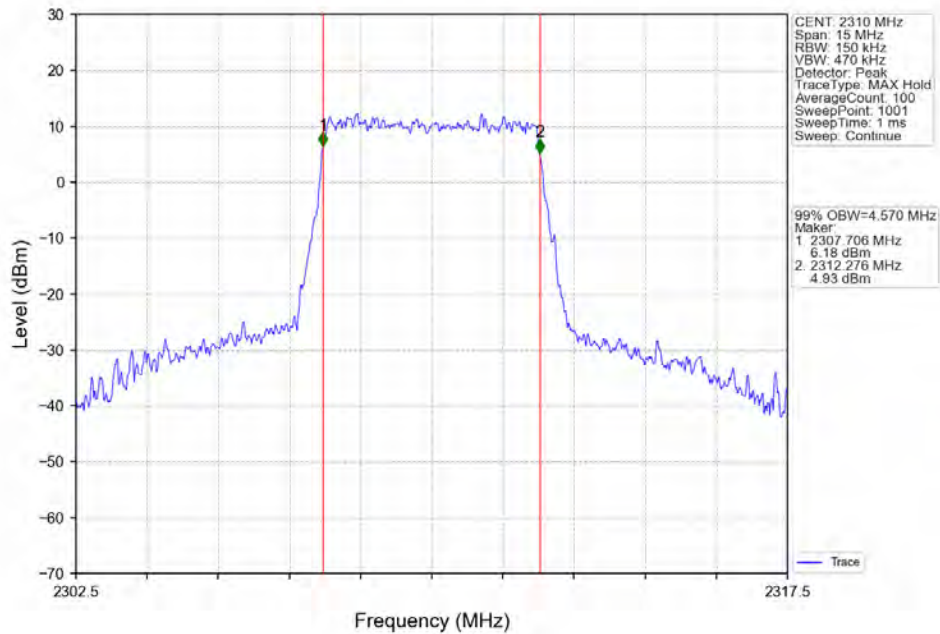
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Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



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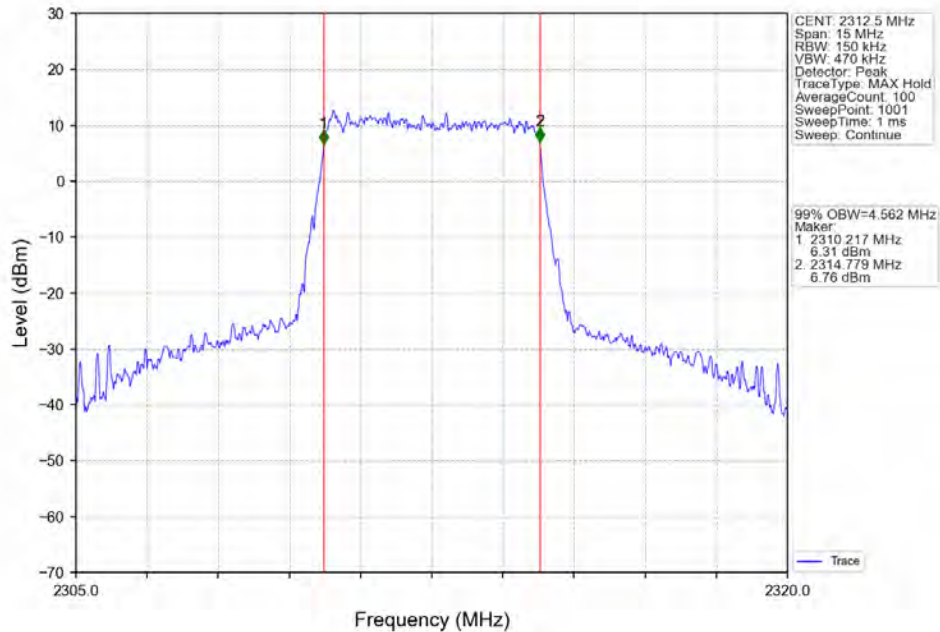
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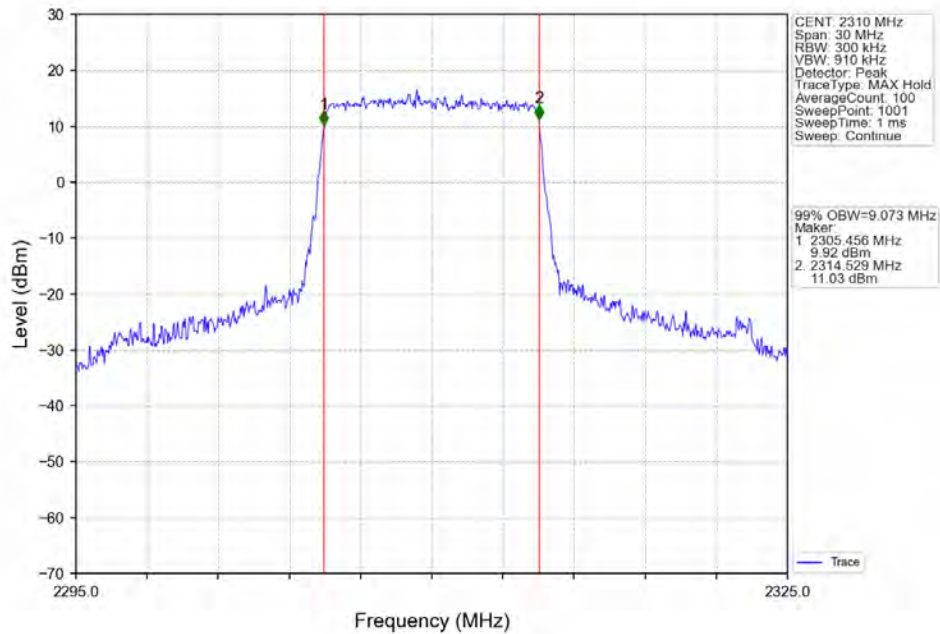
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Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



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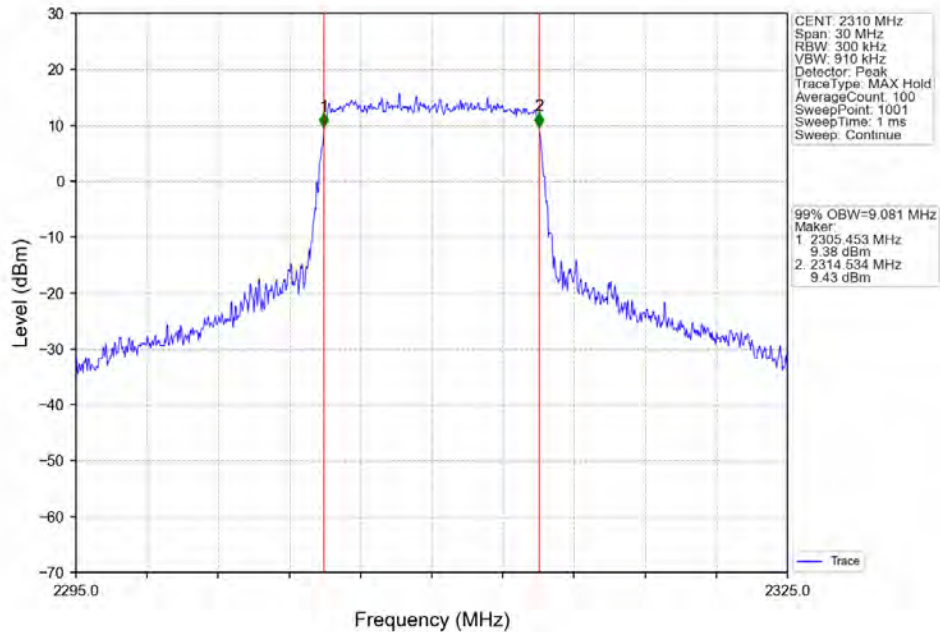
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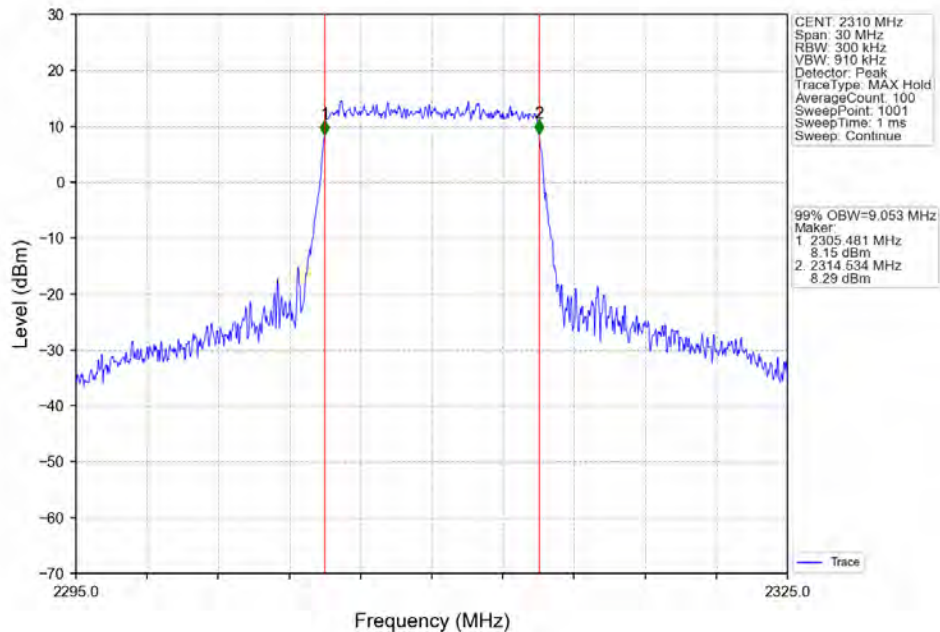
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Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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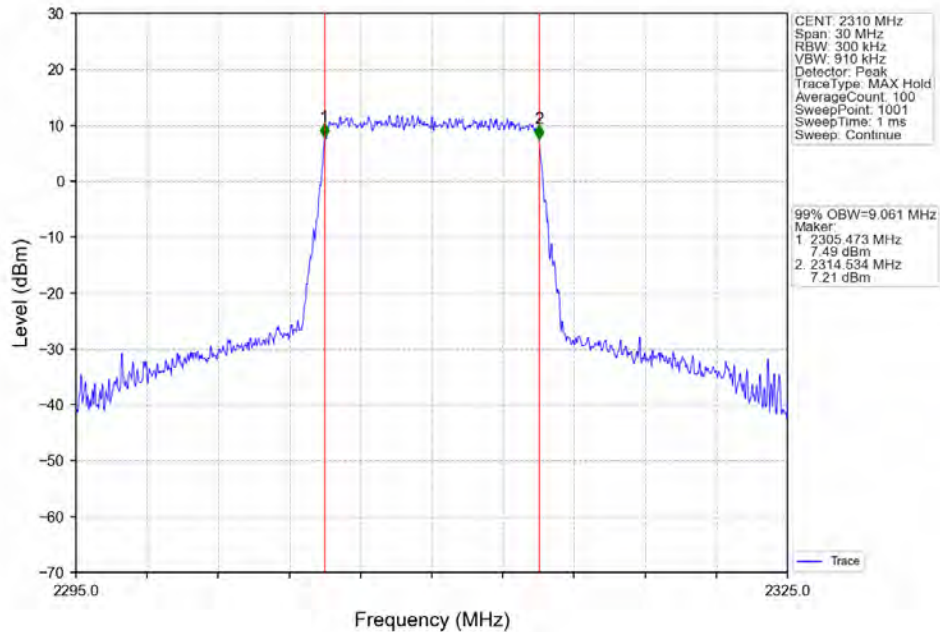
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4.2 Band30_XDB

4.2.1 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	5.242	/	Pass
		2310	25	0	5.268	/	Pass
		2312.5	25	0	5.230	/	Pass
	16QAM	2307.5	25	0	5.203	/	Pass
		2310	25	0	5.230	/	Pass
		2312.5	25	0	5.243	/	Pass
	64QAM	2307.5	25	0	5.262	/	Pass
		2310	25	0	5.240	/	Pass
		2312.5	25	0	5.240	/	Pass
	256QAM	2307.5	25	0	5.253	/	Pass
		2310	25	0	5.241	/	Pass
		2312.5	25	0	5.215	/	Pass
10	QPSK	2310	50	0	10.127	/	Pass
	16QAM	2310	50	0	10.115	/	Pass
	64QAM	2310	50	0	10.185	/	Pass
	256QAM	2310	50	0	10.238	/	Pass



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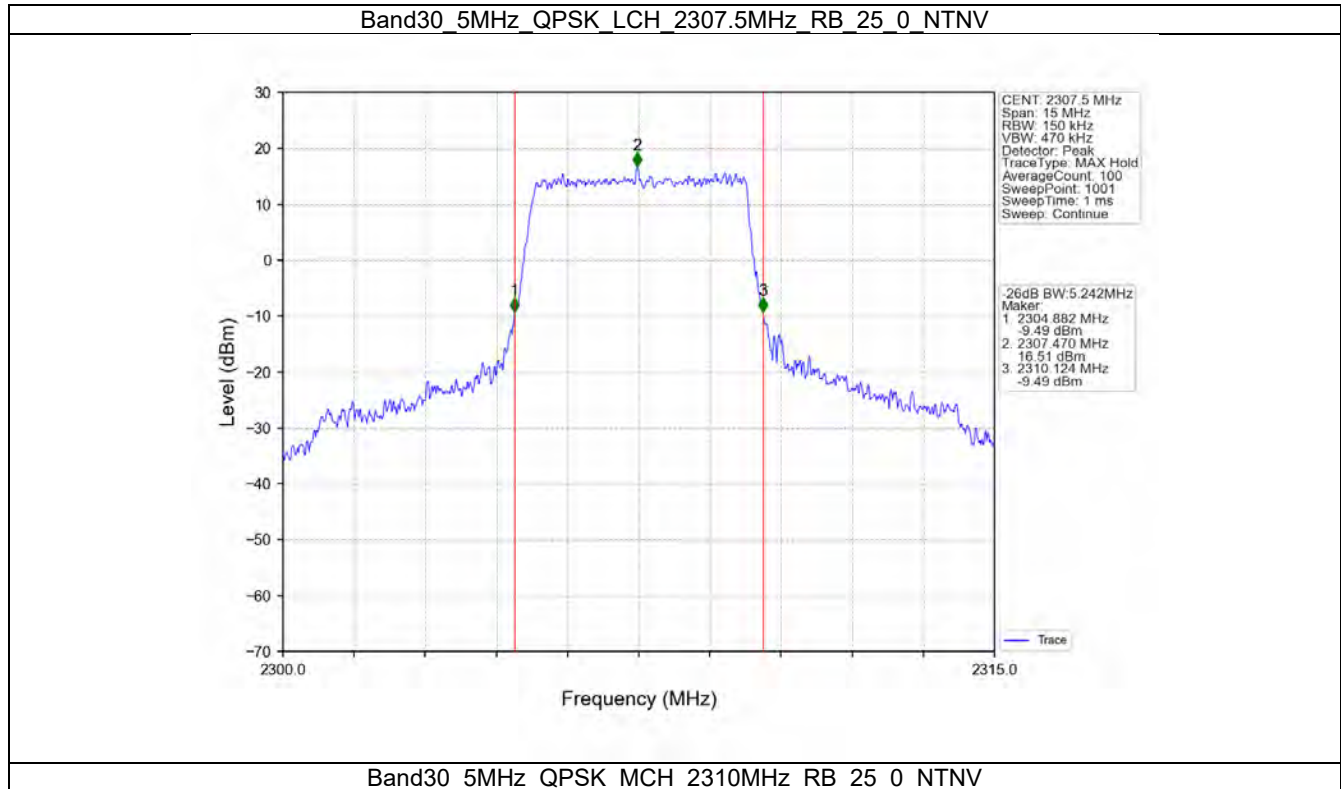
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4.2.2 Test Graph



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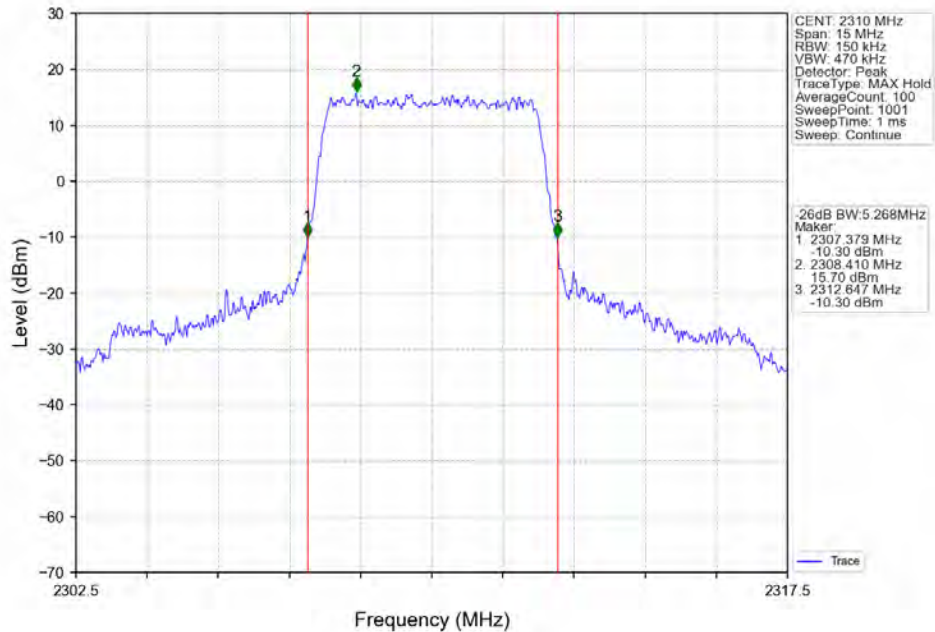
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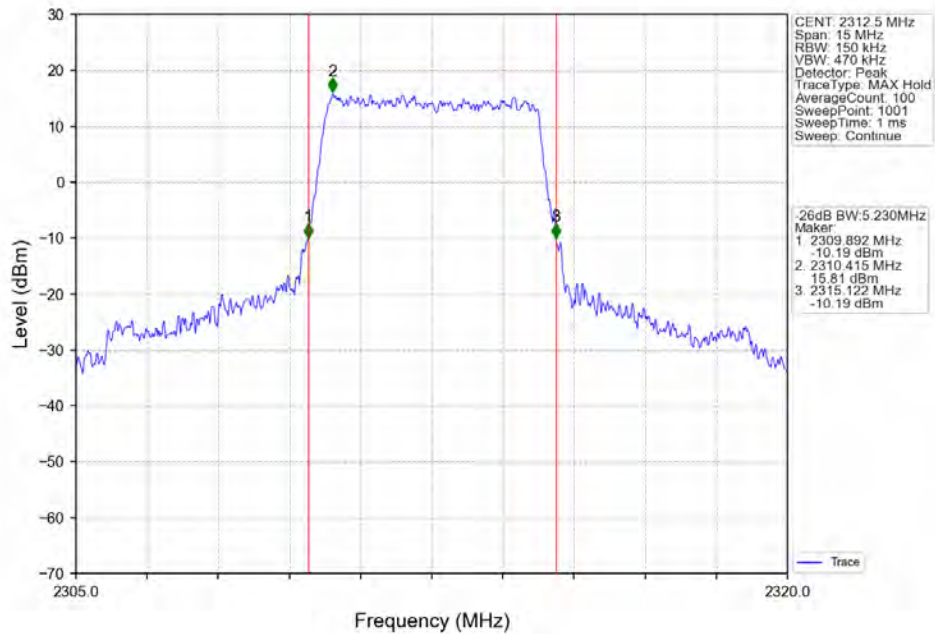
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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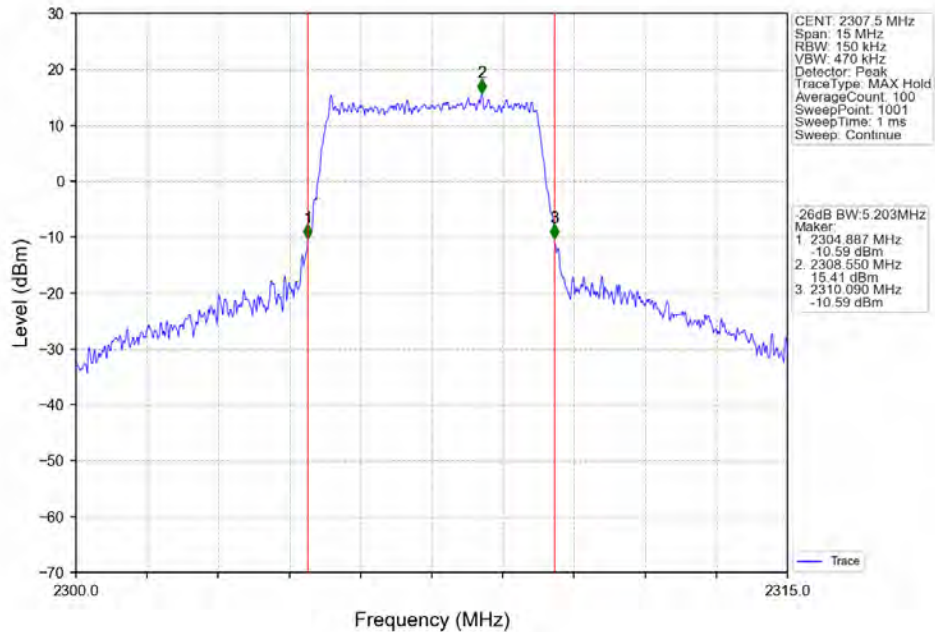
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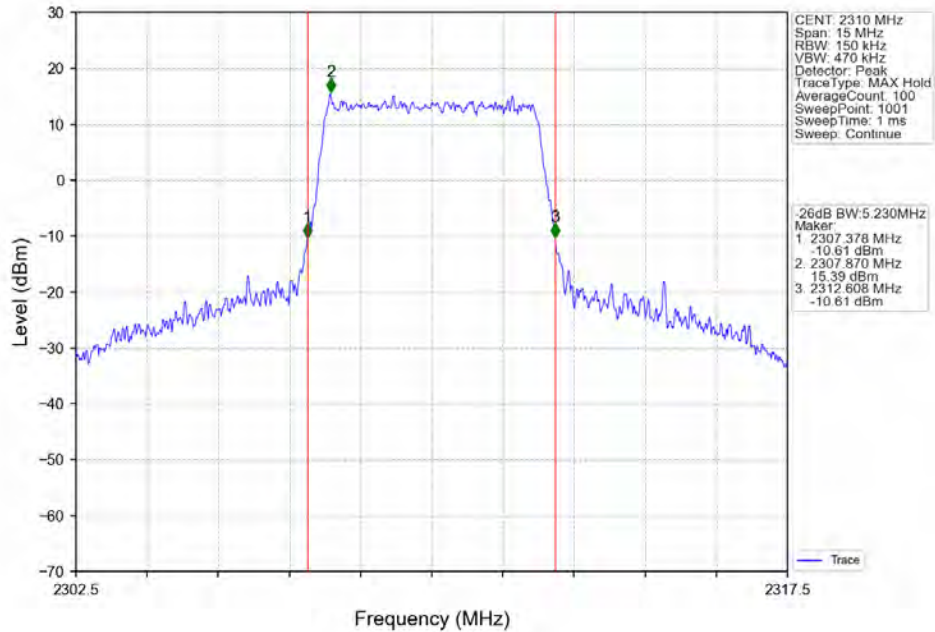
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Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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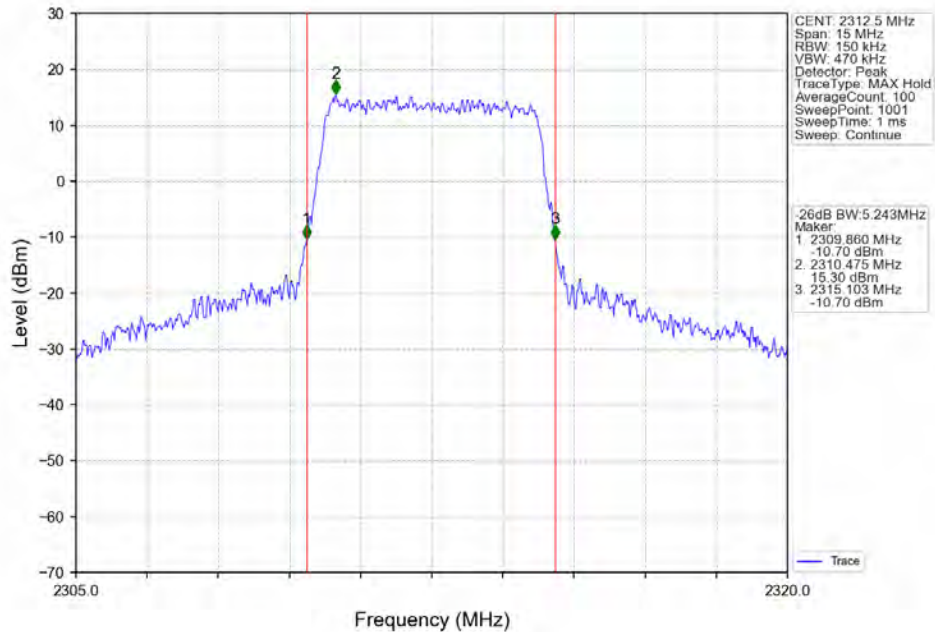
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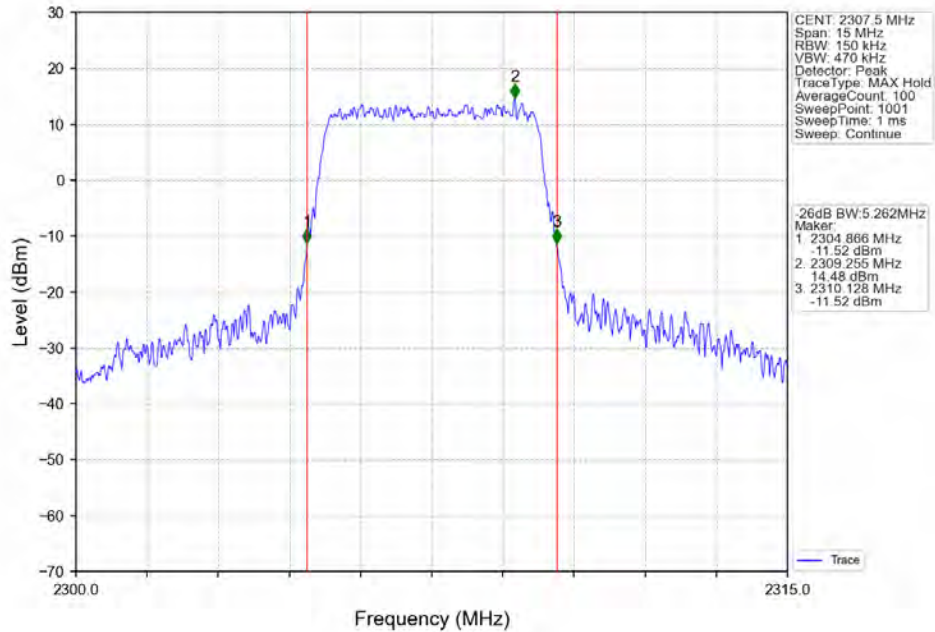
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Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



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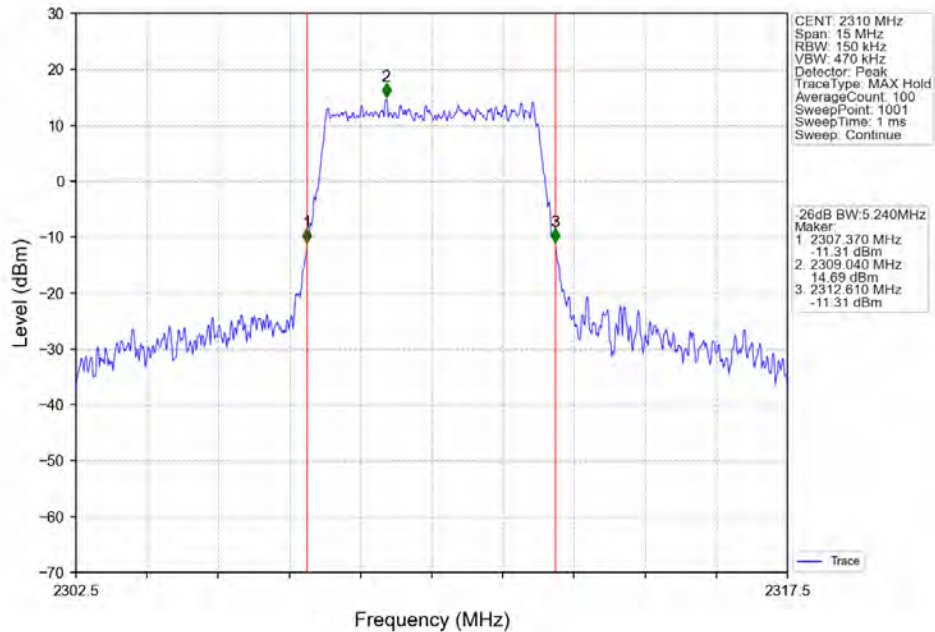
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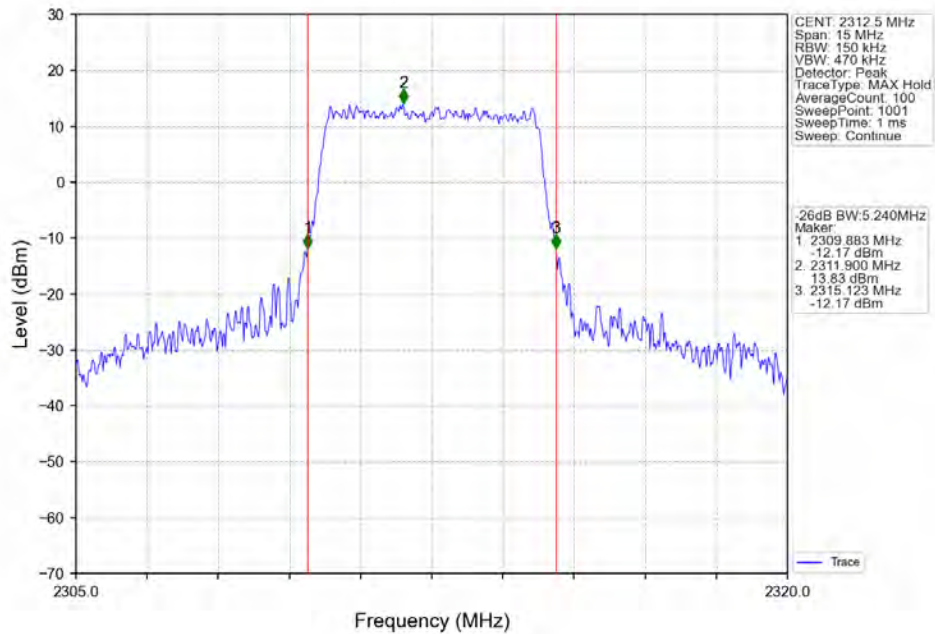
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



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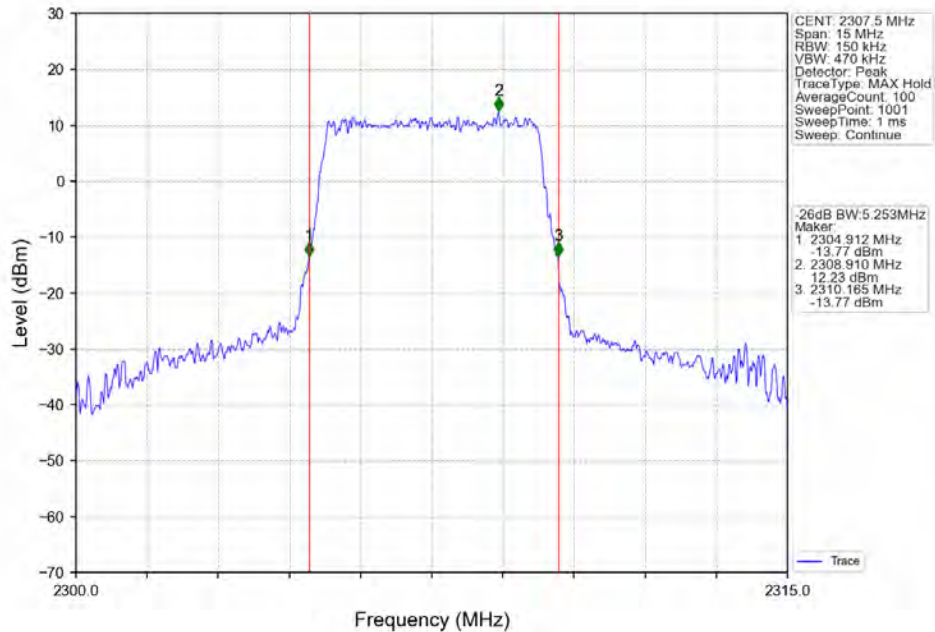
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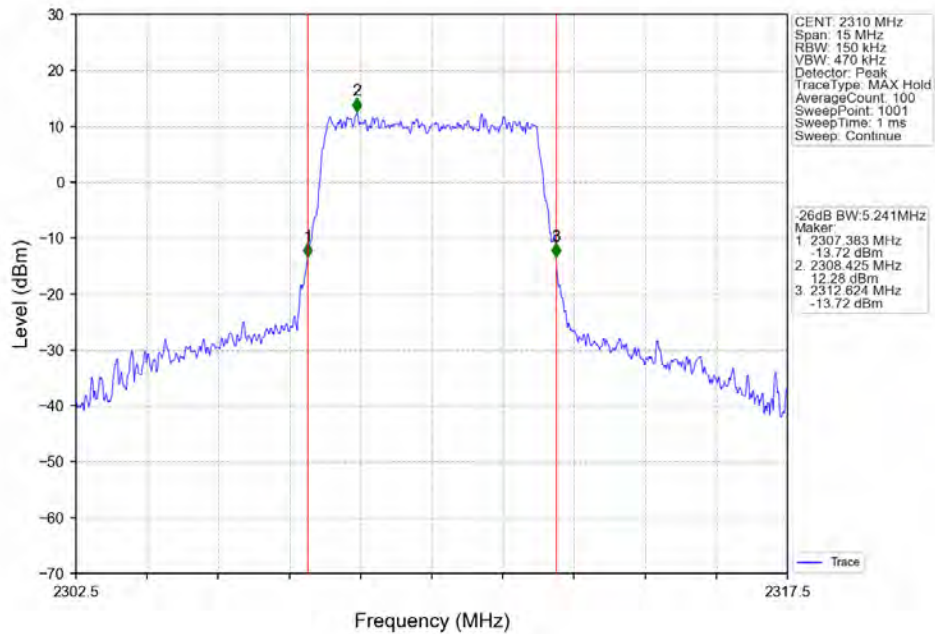
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Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



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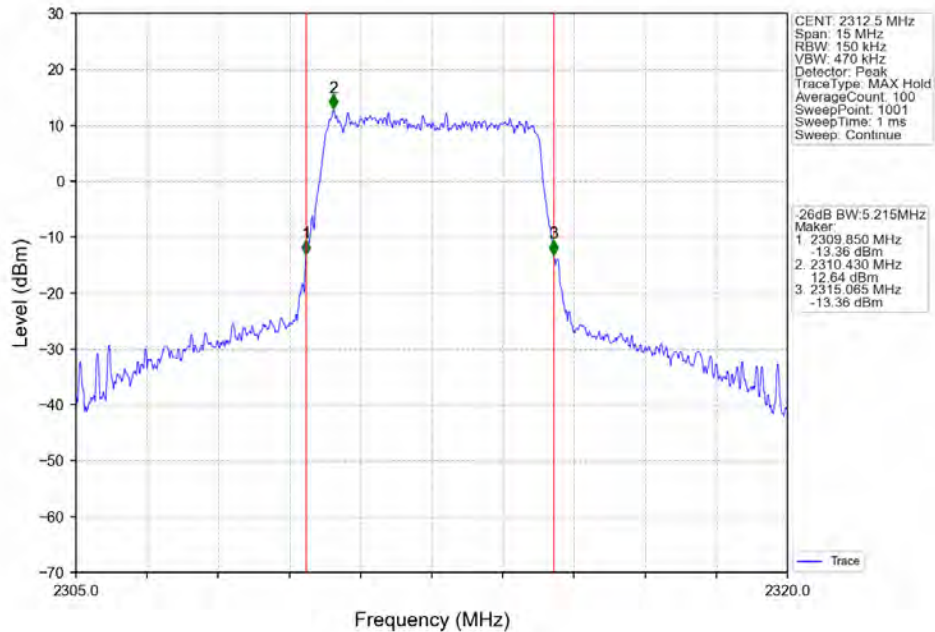
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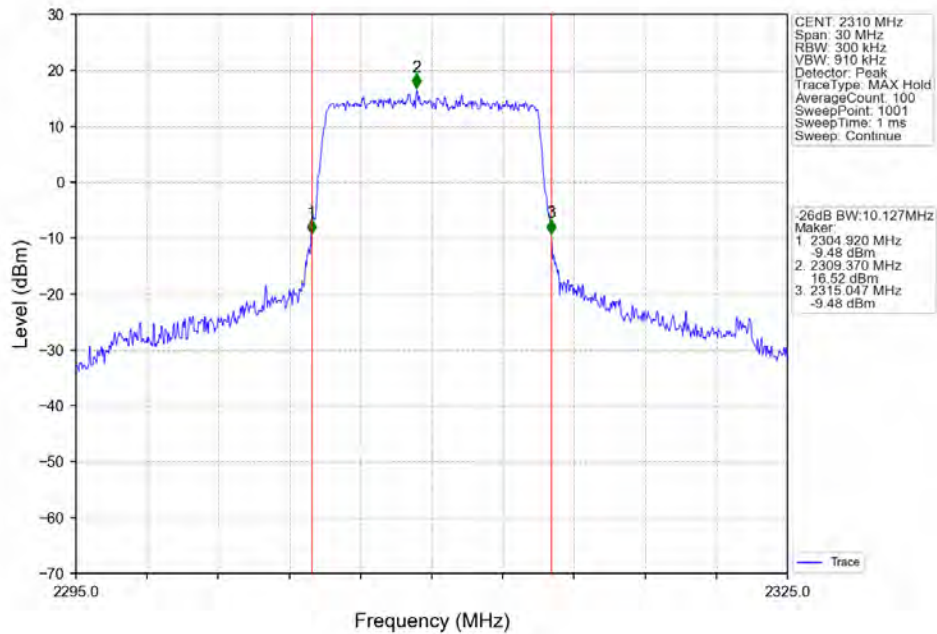
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Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



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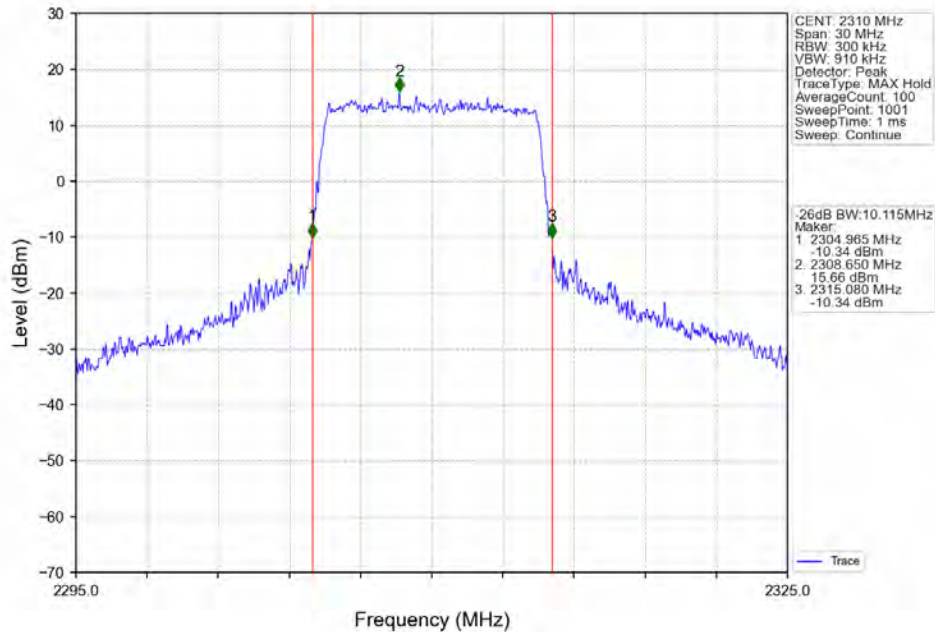
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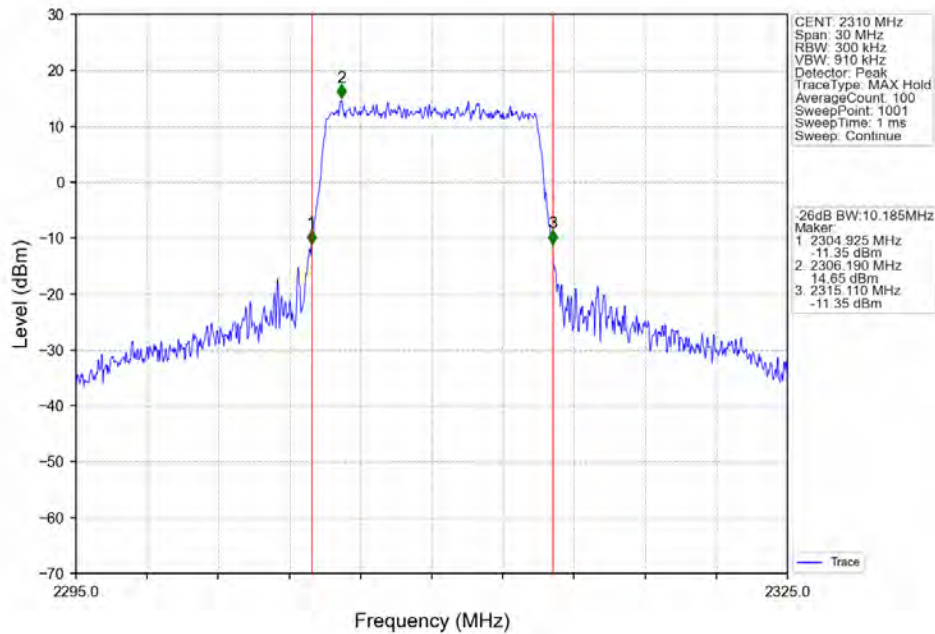
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Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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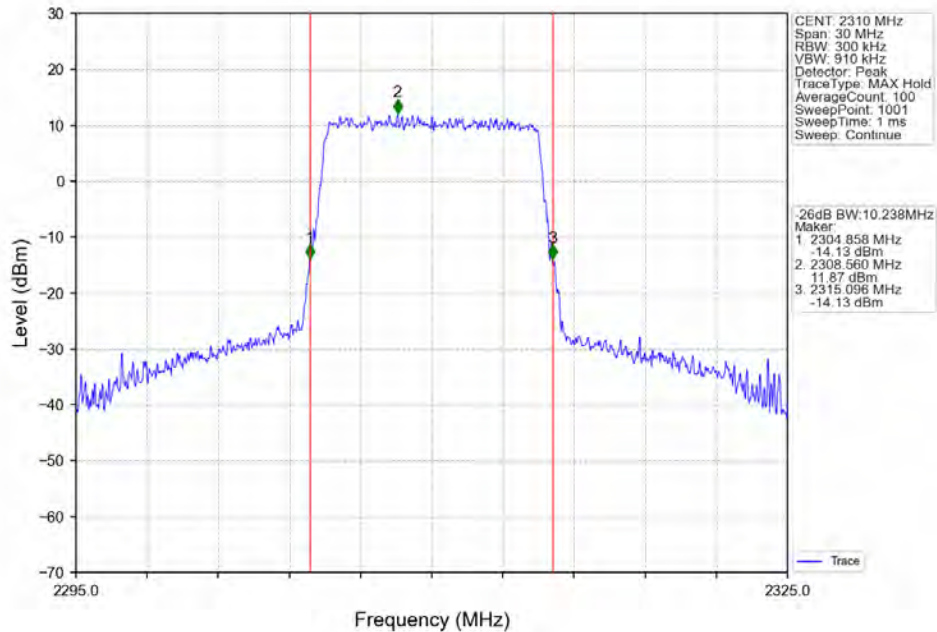
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5. Peak-Average Ratio

5.1 B30_5MHz

5.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	5.10	<=13	Pass
	2310	25	0	5.08	<=13	Pass
	2312.5	25	0	5.29	<=13	Pass
16QAM	2307.5	25	0	5.98	<=13	Pass
	2310	25	0	5.96	<=13	Pass
	2312.5	25	0	6.16	<=13	Pass
64QAM	2307.5	25	0	10.40	<=13	Pass
	2310	25	0	10.32	<=13	Pass
	2312.5	25	0	9.92	<=13	Pass
256QAM	2307.5	25	0	6.90	<=13	Pass
	2310	25	0	6.90	<=13	Pass
	2312.5	25	0	6.96	<=13	Pass



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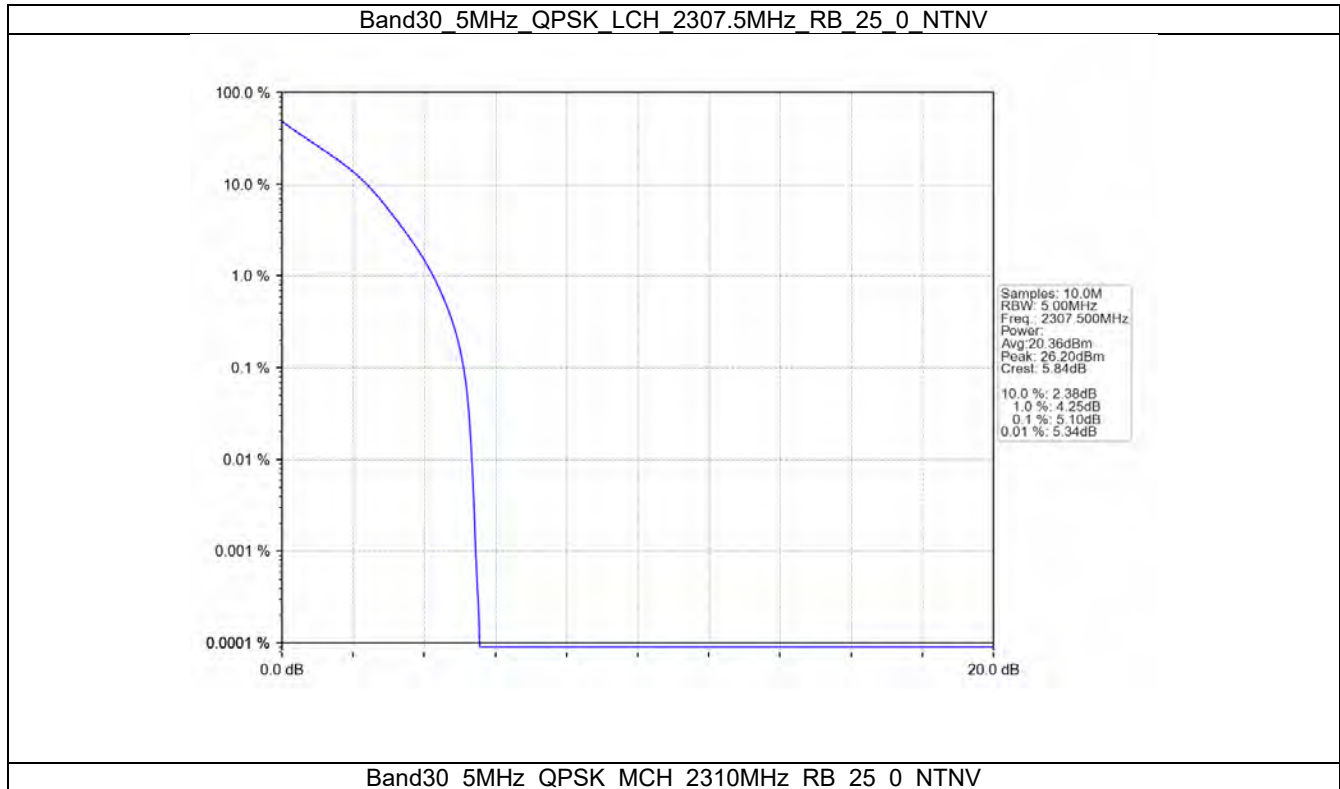
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5.1.2 Test Graph



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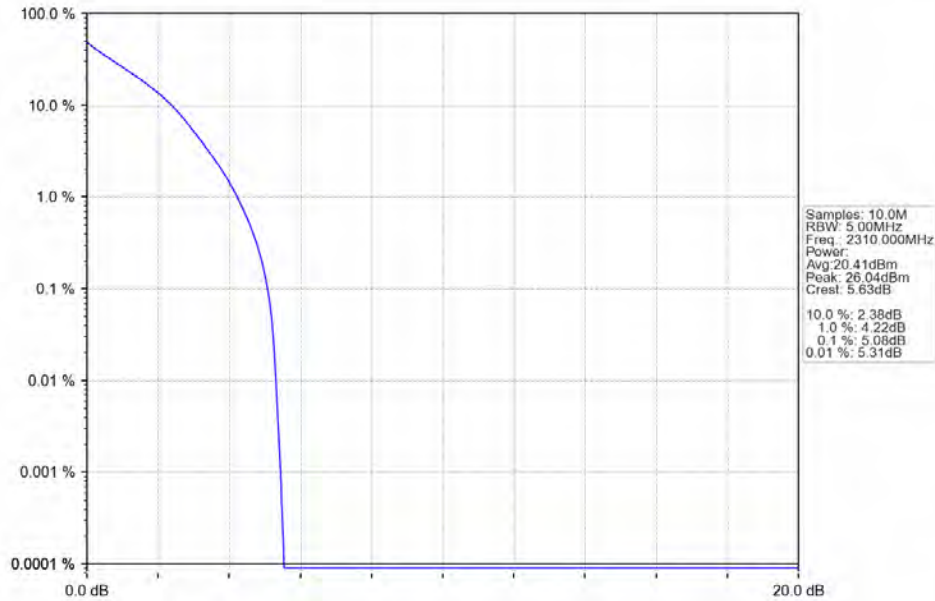
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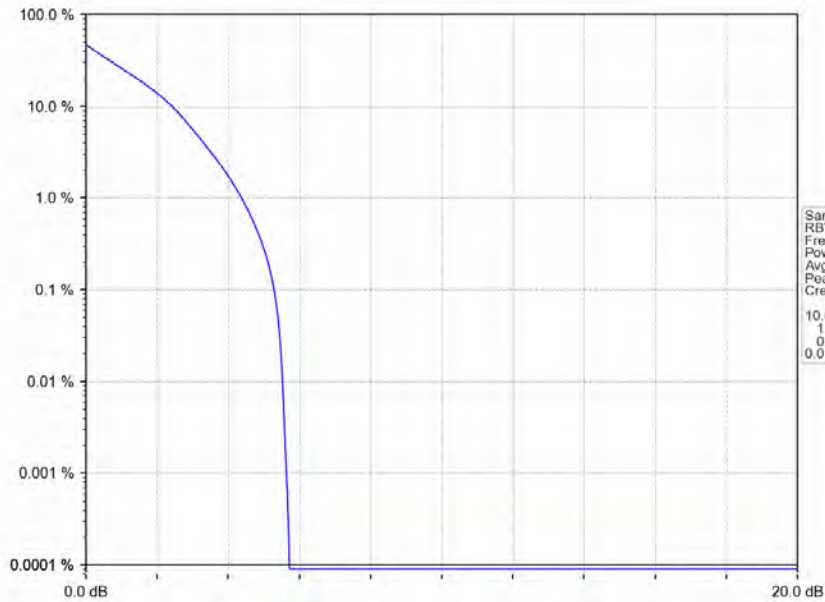
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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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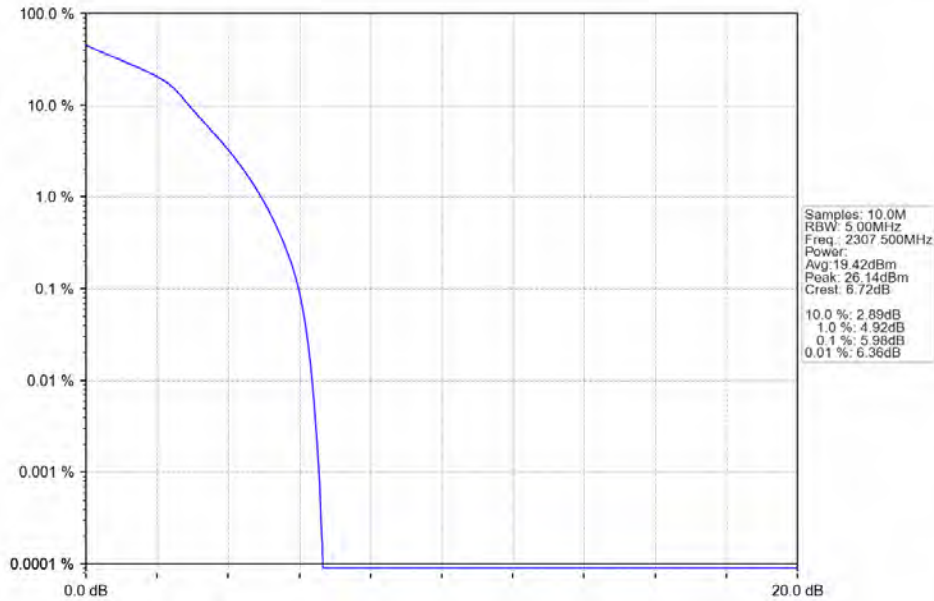
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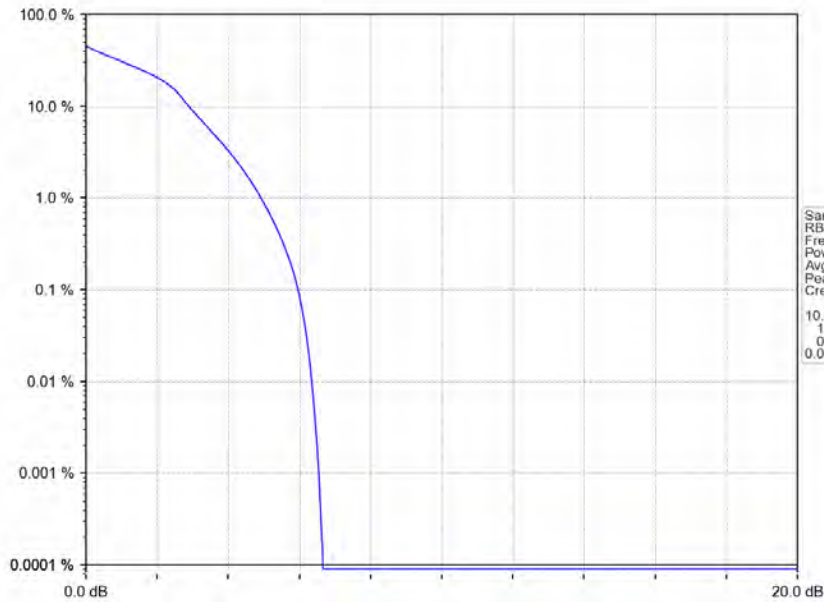
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Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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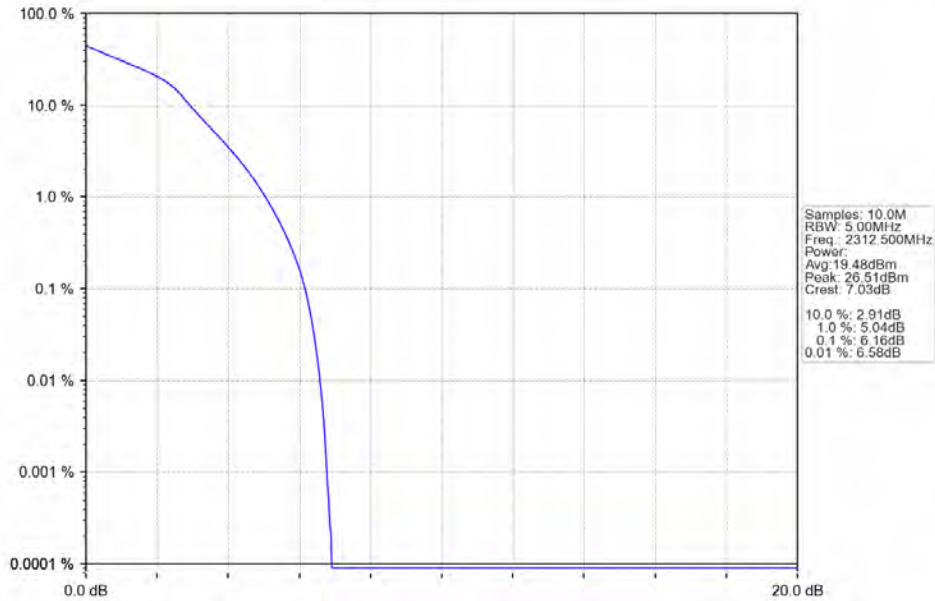
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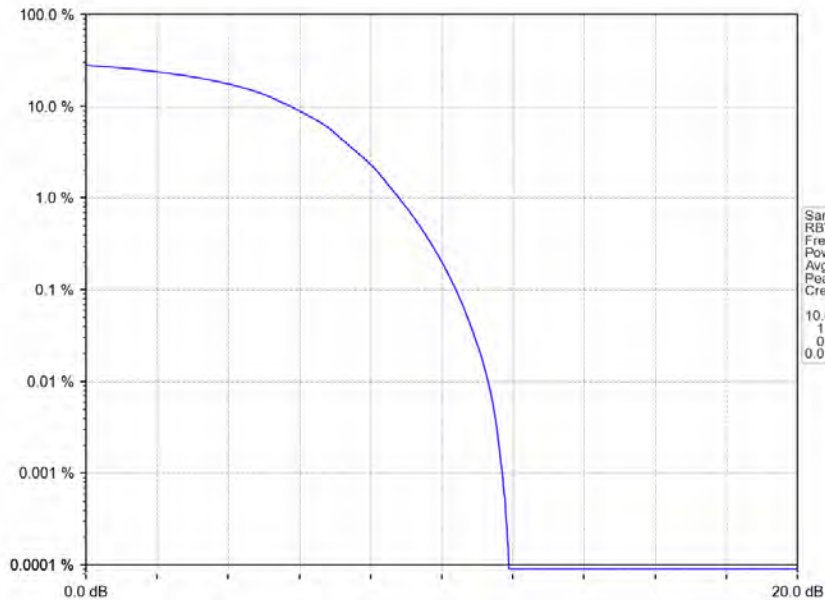
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Samples: 10.0M
RBW: 5.00MHz
Freq: 2307.500MHz
Power:
Avg: 14.03dBm
Peak: 26.13dBm
Crest: 12.10dB
10.0%: 5.74dB
1.0%: 8.79dB
0.1%: 10.40dB
0.01%: 11.30dB

Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



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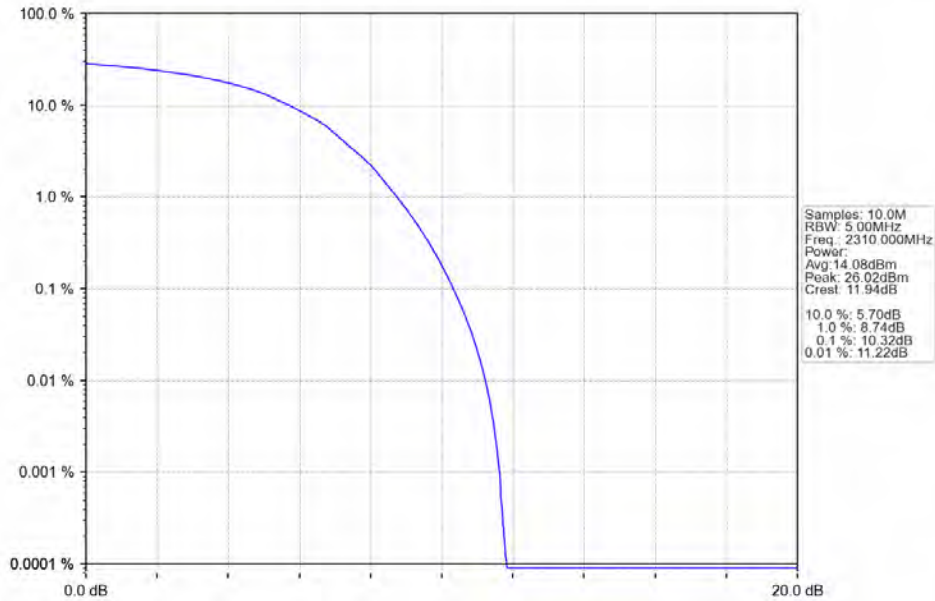
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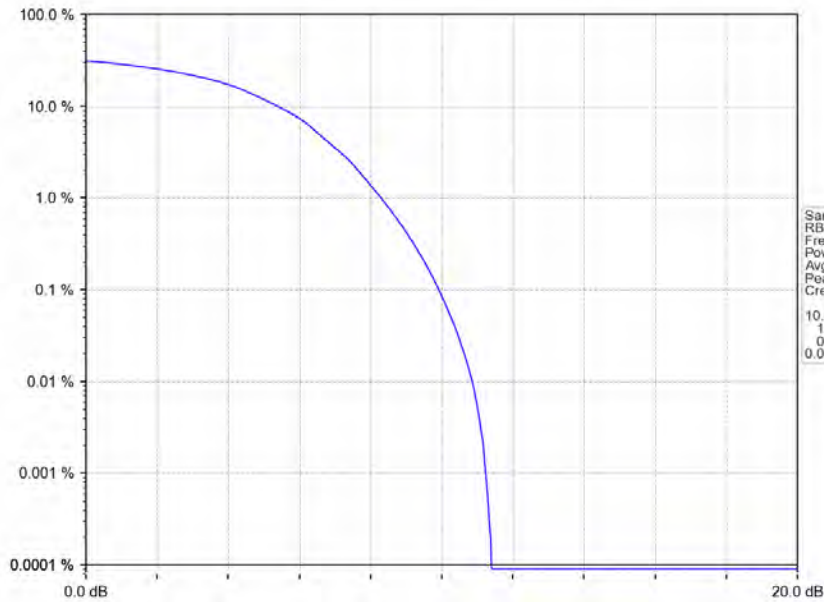
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Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



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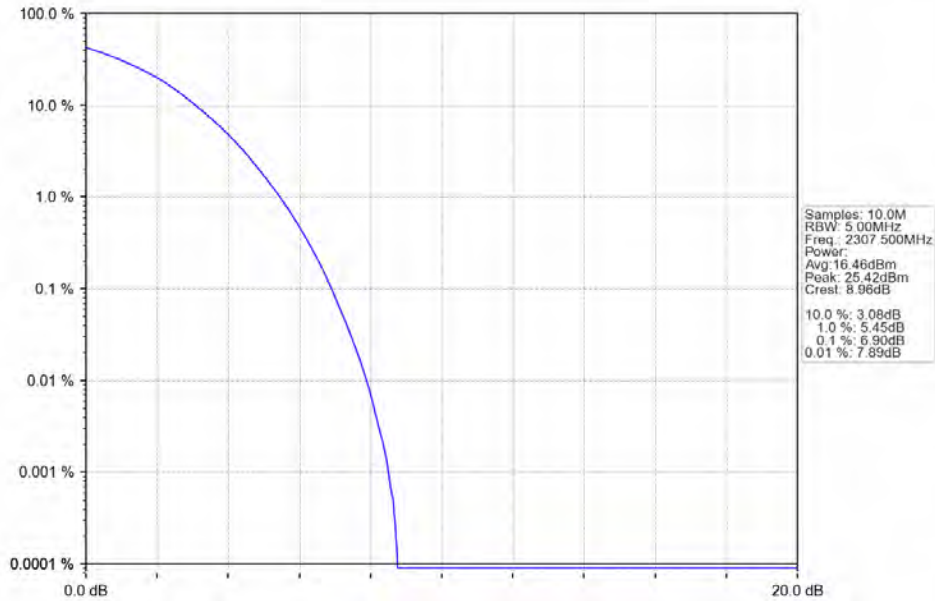
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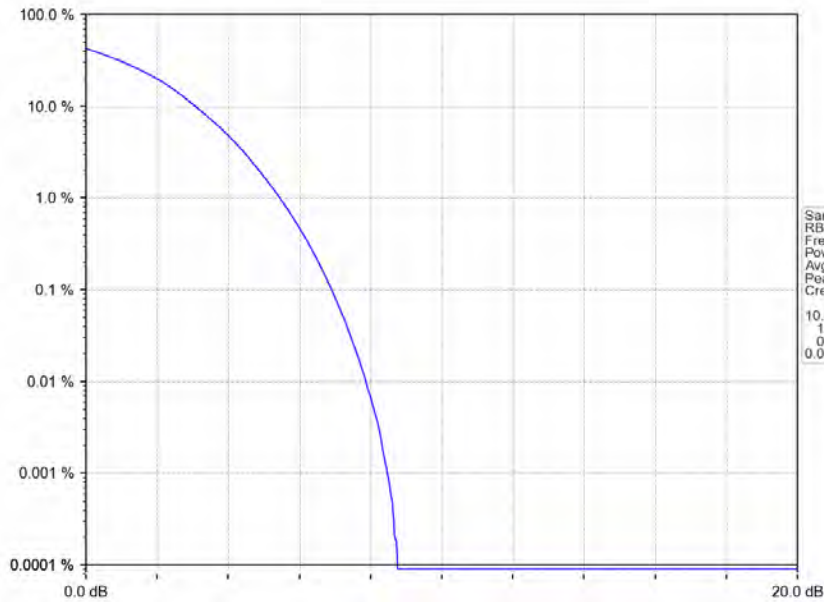
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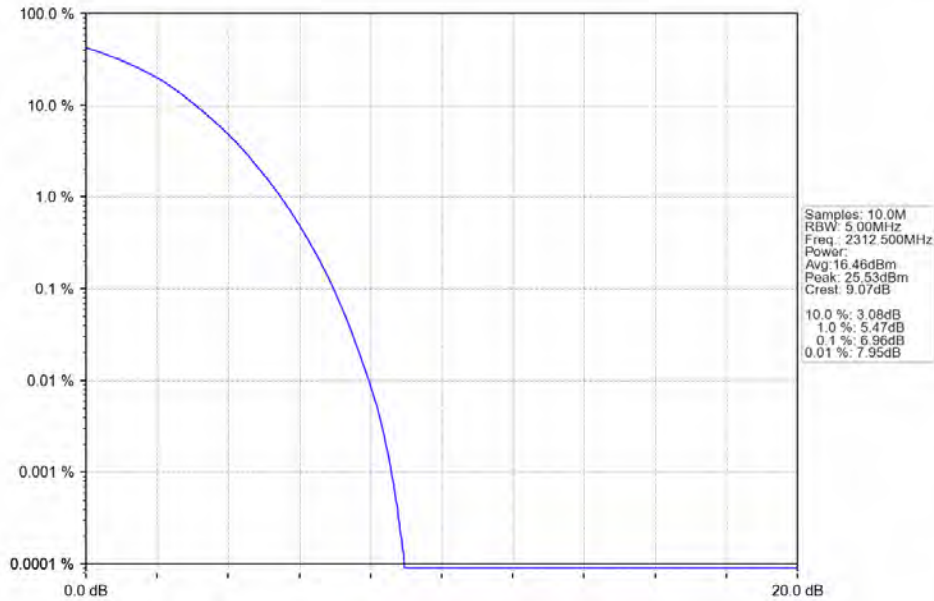
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5.2 B30_10MHz

5.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.13	<=13	Pass
16QAM	2310	50	0	5.98	<=13	Pass
64QAM	2310	50	0	6.41	<=13	Pass
256QAM	2310	50	0	6.80	<=13	Pass



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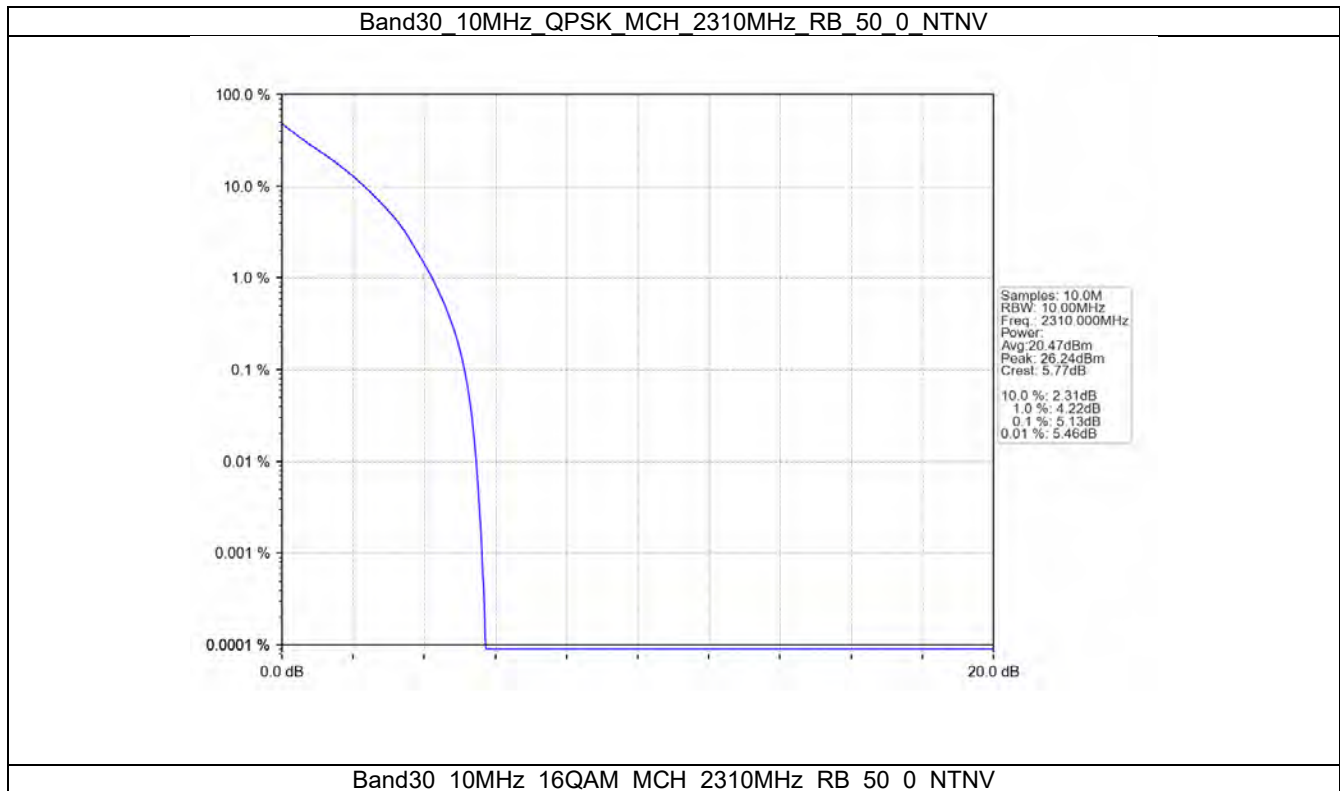
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5.2.2 Test Graph



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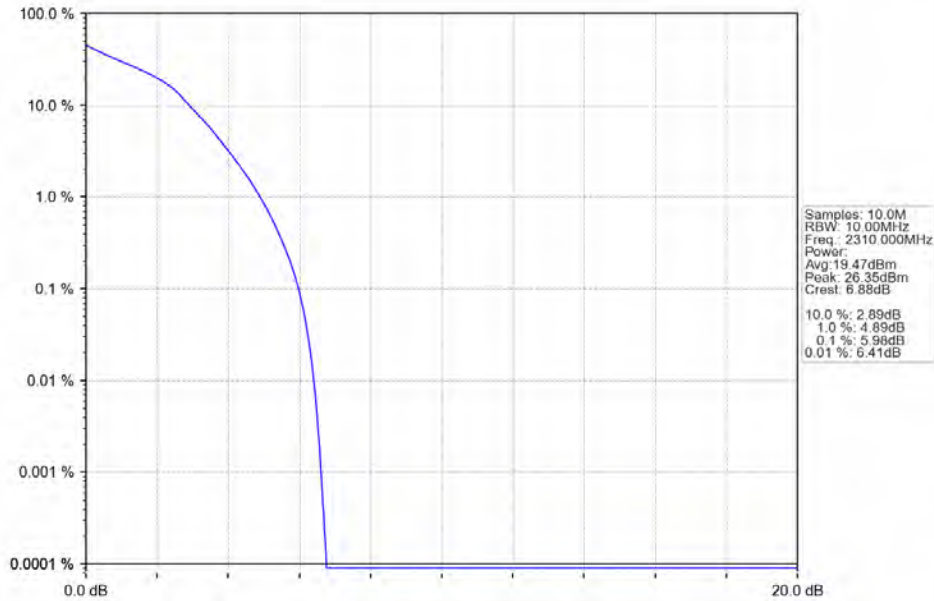
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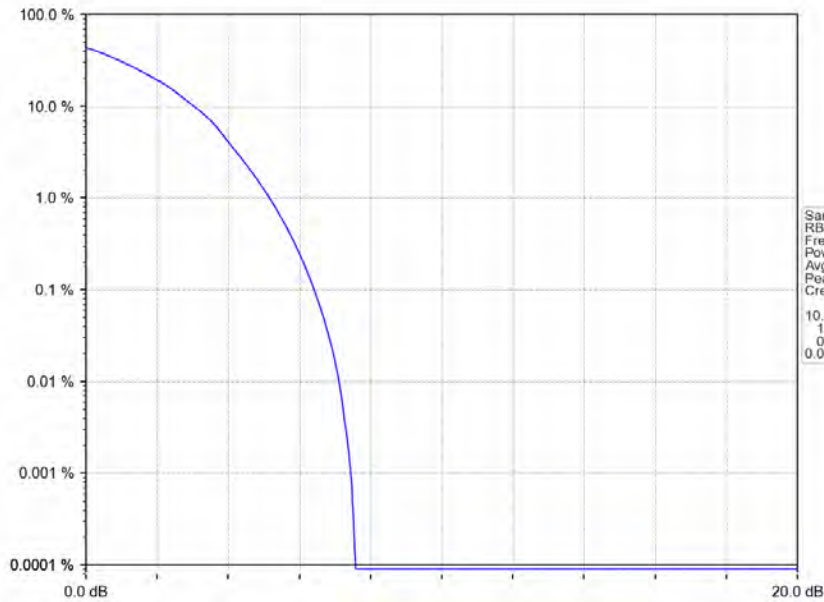
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Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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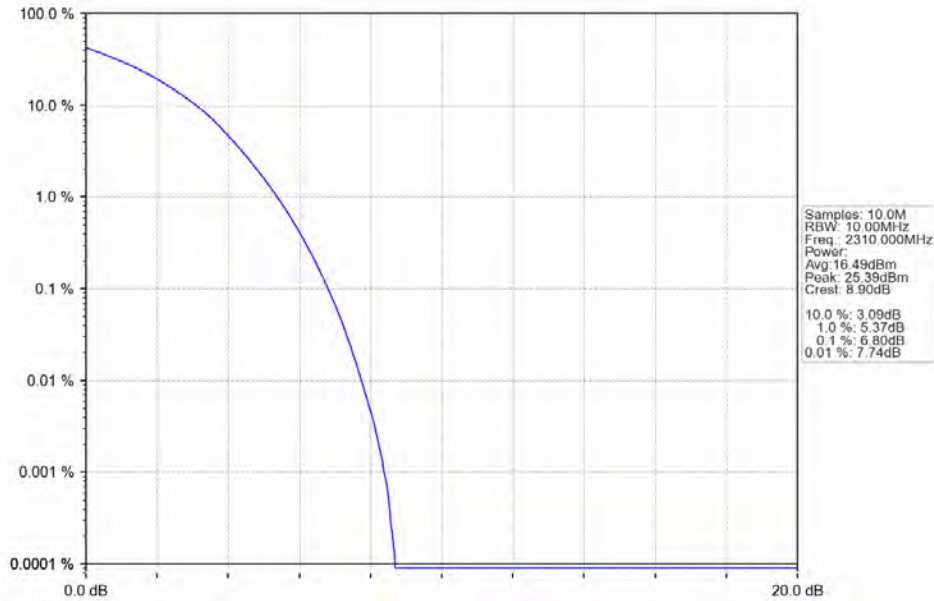
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6. Spurious Emission & Band Edges

6.1 B30_5MHz

6.1.1 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



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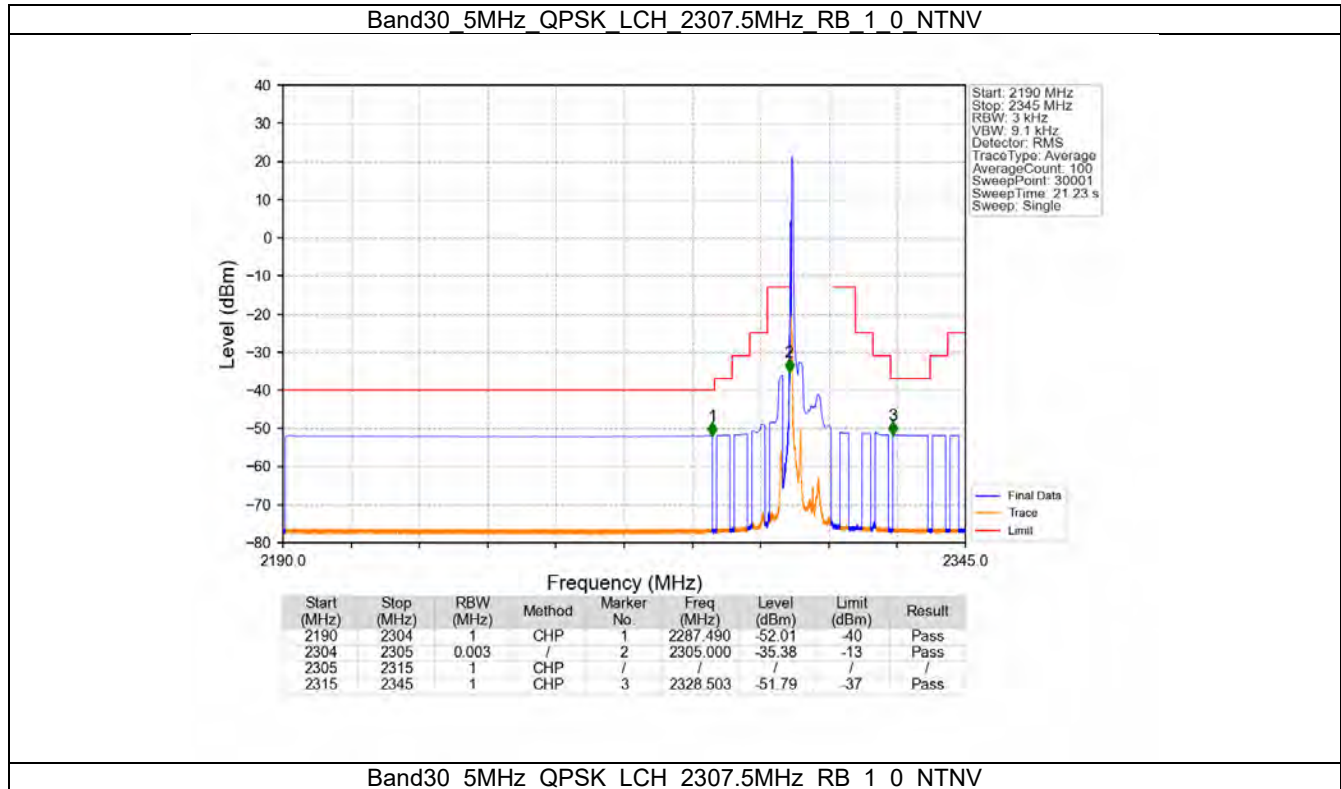
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6.1.2 Test Graph



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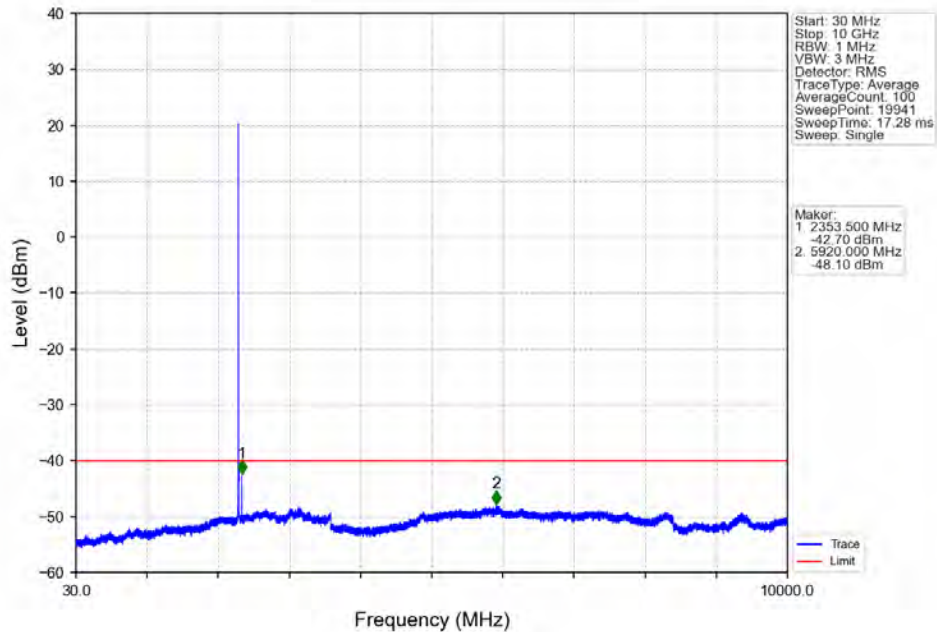
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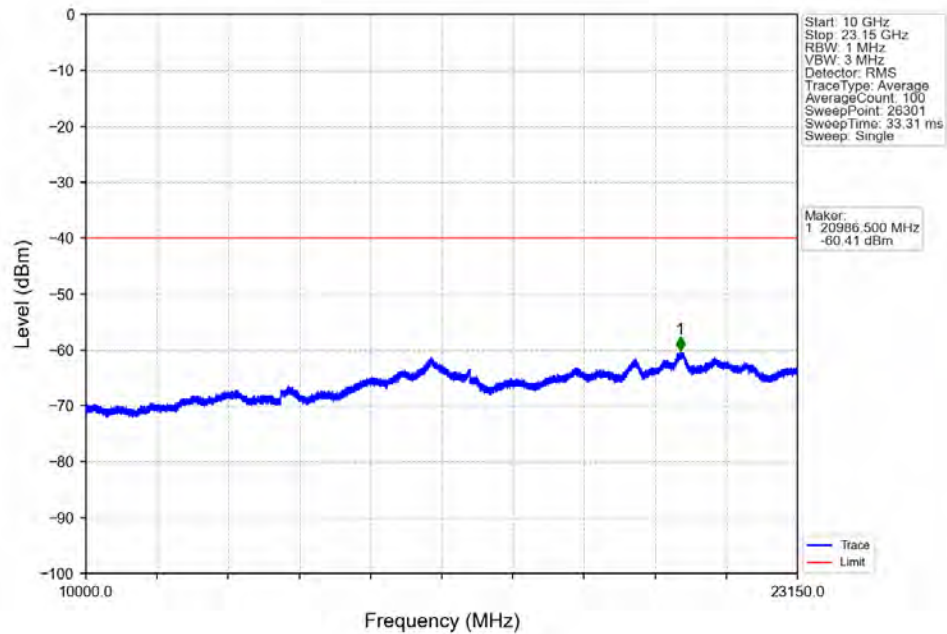
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Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



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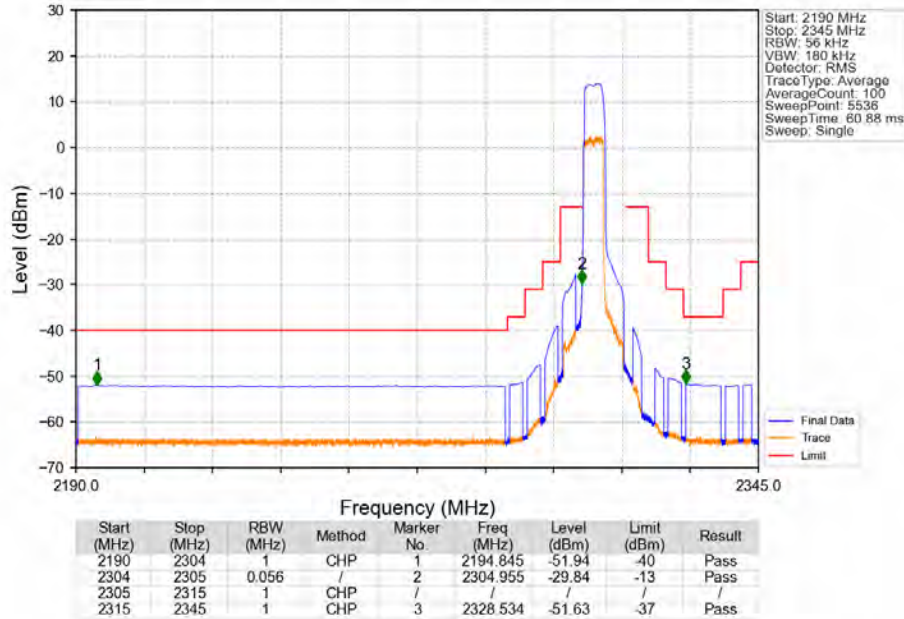
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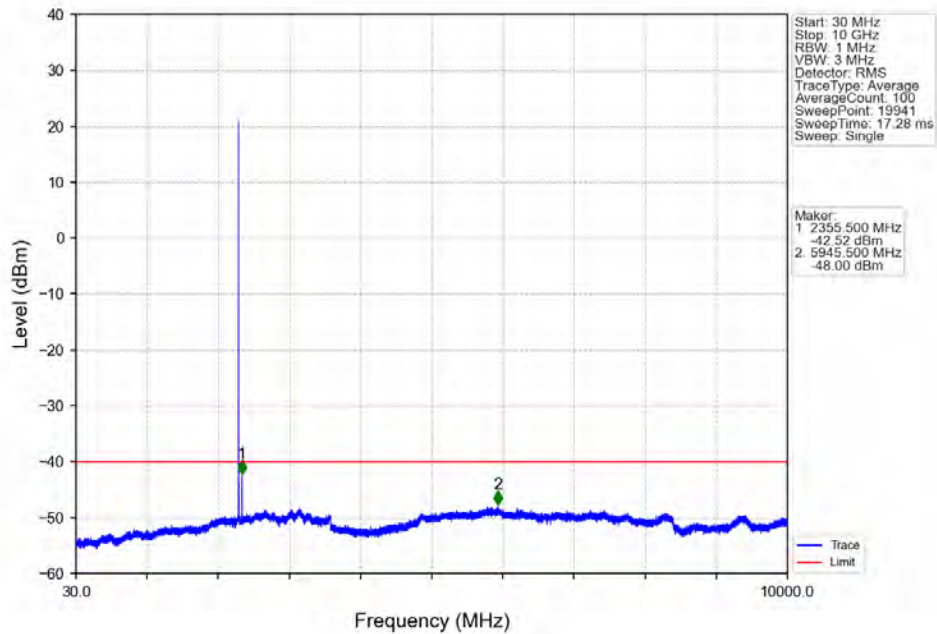
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Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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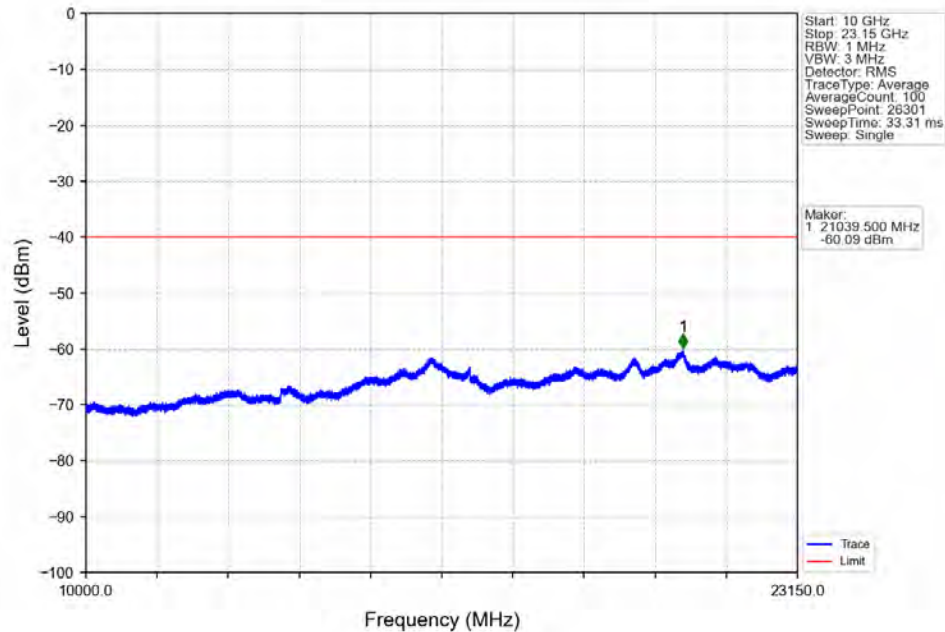
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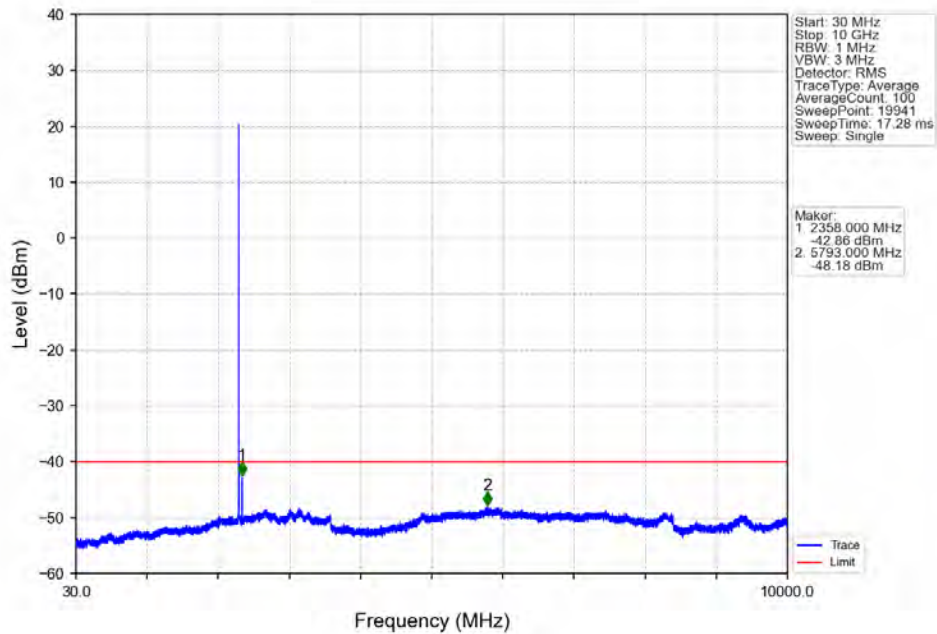
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



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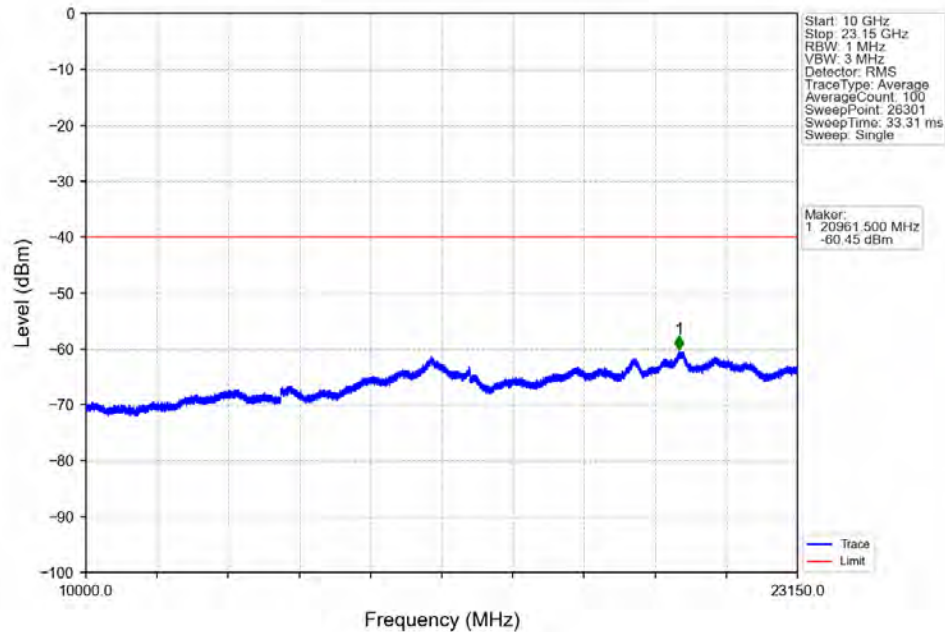
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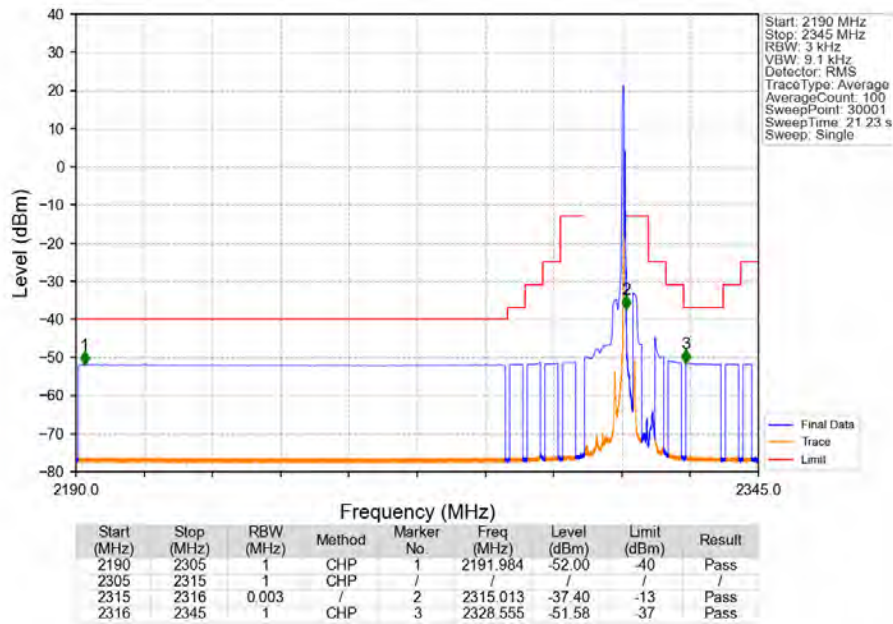
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



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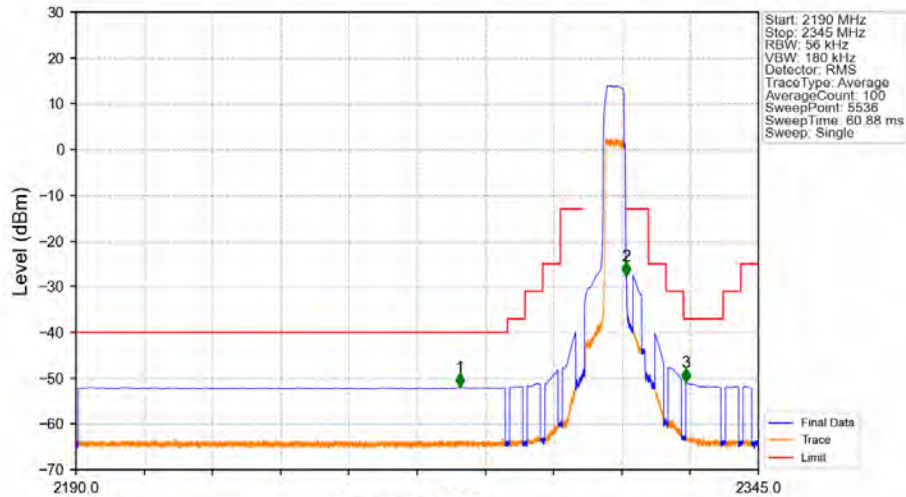
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Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2277.203	-51.97	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.056	/	2	2315.008	-27.74	-13	Pass
2316	2345	1	CHP	3	2328.506	-51.00	-37	Pass



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6.2 B30_10MHz

6.2.1 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	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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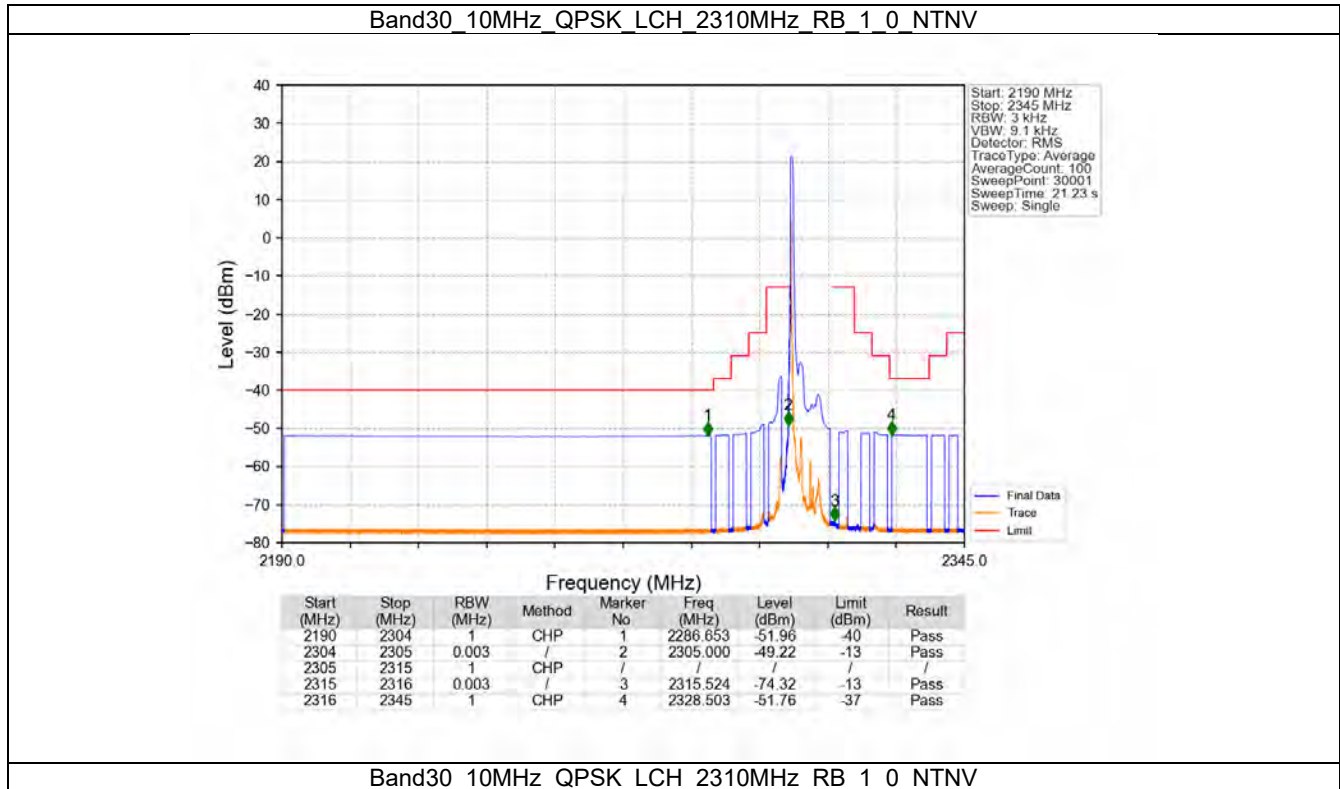
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6.2.2 Test Graph



Band30 10MHz QPSK LCH 2310MHz RB 1 0 NTN



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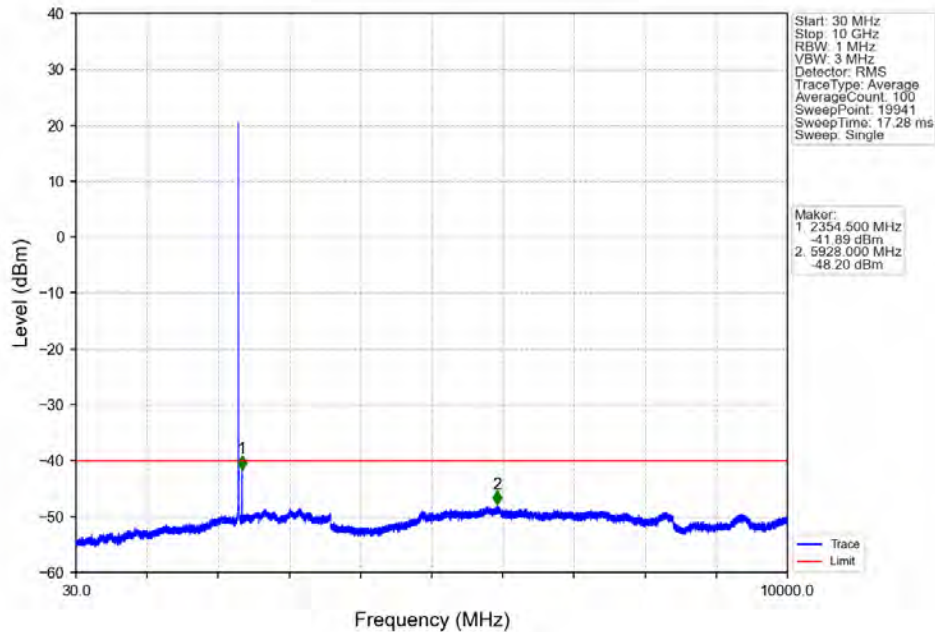
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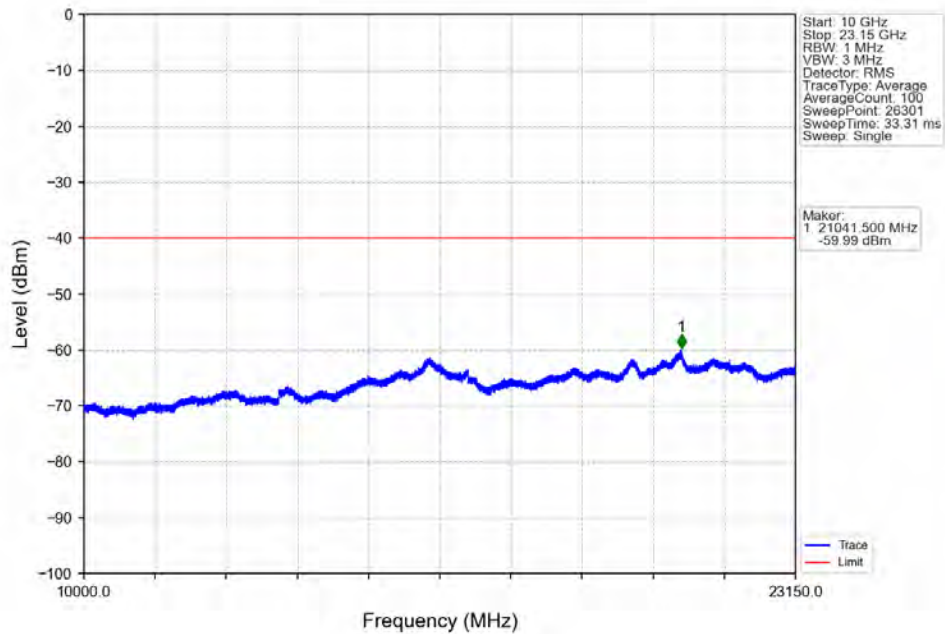
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Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



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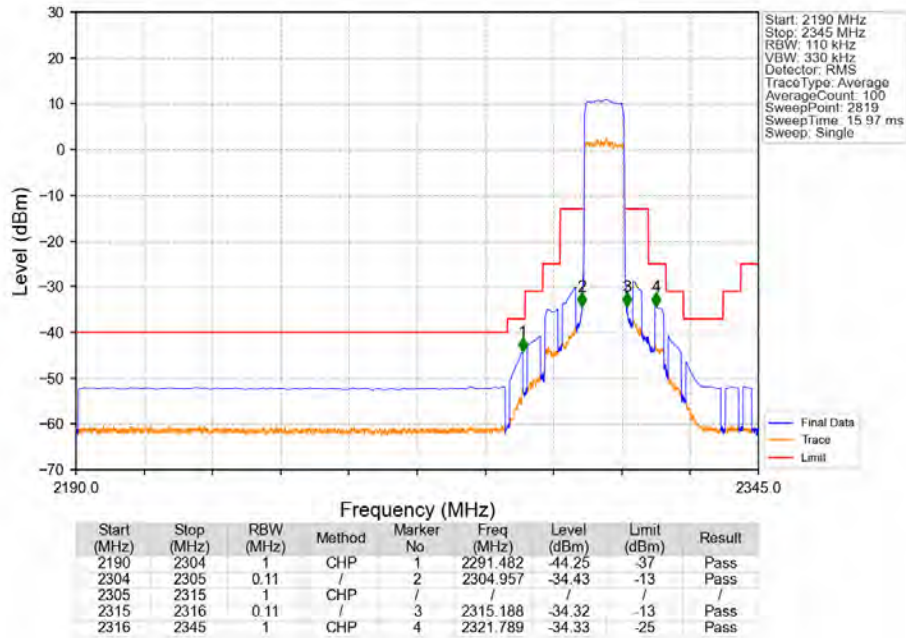
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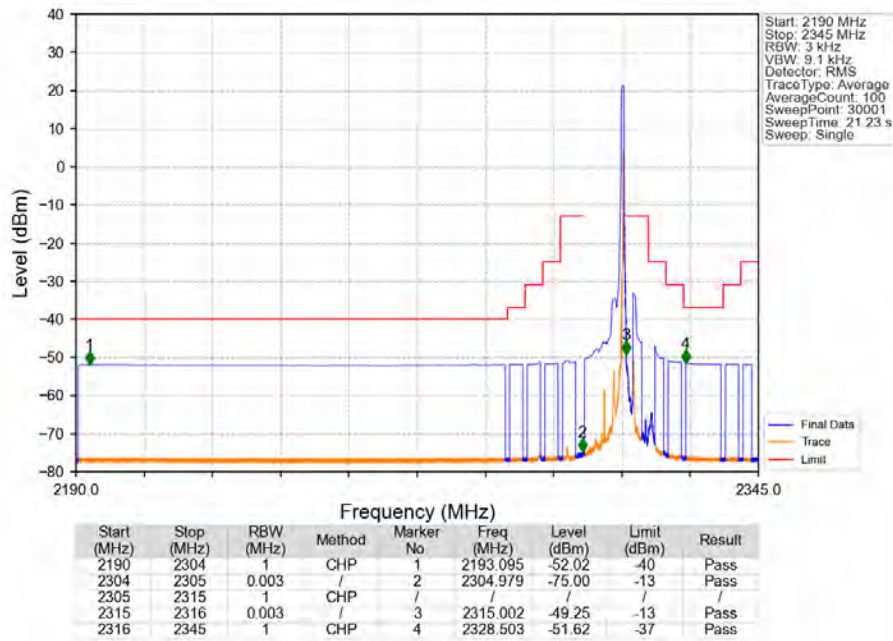
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Band30_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTNV



Band30_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV



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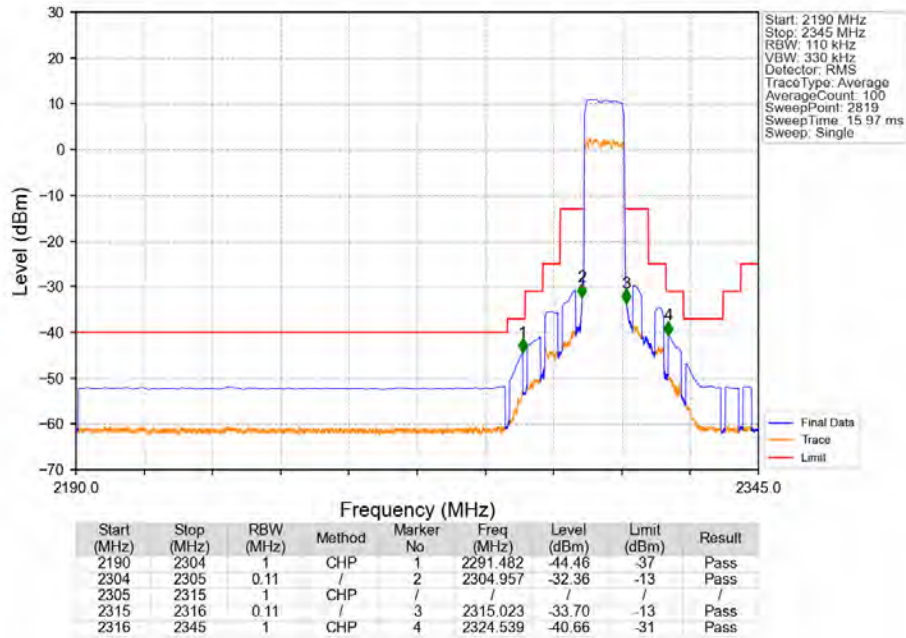
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