



Report No.: SUCR240400009001

Rev.: 01

Page: 1 of 190

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	23.05	17.35	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.91	17.21	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.96	17.26	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	22.04	16.34	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.15	17.45	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.12	17.42	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.84	17.14	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.89	16.19	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.3	17.6	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.87	17.17	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.71	17.01	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.93	16.23	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.35	16.65	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.05	16.35	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.89	16.19	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	21.03	15.33	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.24	16.54	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.09	16.39	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.93	16.23	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.91	15.21	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.93	16.23	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.07	16.37	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.95	16.25	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	21.01	15.31	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	21.27	15.57	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	21.15	15.45	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	21.19	15.49	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	20.07	14.37	23.98	PASS



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Report No.: SUCR240400009001

Rev.: 01

Page: 3 of 190

Band30	5MHz	64QAM	27710	1RB#0	21.24	15.54	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	21.16	15.46	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.98	15.28	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.96	14.26	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	21.13	15.43	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	21.27	15.57	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.99	15.29	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.97	14.27	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	18.08	12.38	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	18.37	12.67	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	18.03	12.33	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	18.03	12.33	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.97	12.27	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	18.07	12.37	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.79	12.09	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.87	12.17	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.92	12.22	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	18.05	12.35	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.8	12.1	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.99	12.29	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.03	17.33	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.96	17.26	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.88	17.18	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.98	16.28	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.34	16.64	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.12	16.42	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.93	16.23	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.97	15.27	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	21.32	15.62	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	21.23	15.53	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	21	15.3	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.96	14.26	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	18.01	12.31	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	18.15	12.45	23.98	PASS



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Report No.: SUCR240400009001

Rev.: 01

Page: 4 of 190

Band30	10MHz	256QAM	27710	1RB#49	17.96	12.26	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	18.02	12.32	23.98	PASS

1.2 B30_5MHz_EIRP/10MHz

1.2.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNv								
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	22.60	-5.70	16.90	<=23.98	Pass
			13	22.94	-5.70	17.24	<=23.98	Pass
			24	22.74	-5.70	17.04	<=23.98	Pass
		12	0	21.64	-5.70	15.94	<=23.98	Pass
			6	21.87	-5.70	16.17	<=23.98	Pass
			13	21.72	-5.70	16.02	<=23.98	Pass
		25	0	21.80	-5.70	16.10	<=23.98	Pass
	2310	1	0	22.87	-5.70	17.17	<=23.98	Pass
			13	23.05	-5.70	17.35	<=23.98	Pass
			24	22.75	-5.70	17.05	<=23.98	Pass
		12	0	21.86	-5.70	16.16	<=23.98	Pass
			6	21.83	-5.70	16.13	<=23.98	Pass
			13	21.78	-5.70	16.08	<=23.98	Pass
		25	0	21.81	-5.70	16.11	<=23.98	Pass
	2312.5	1	0	22.67	-5.70	16.97	<=23.98	Pass
			13	22.71	-5.70	17.01	<=23.98	Pass
			24	22.71	-5.70	17.01	<=23.98	Pass
		12	0	21.49	-5.70	15.79	<=23.98	Pass
			6	21.79	-5.70	16.09	<=23.98	Pass
			13	21.97	-5.70	16.27	<=23.98	Pass
		25	0	21.82	-5.70	16.12	<=23.98	Pass
16QAM	2307.5	1	0	22.05	-5.70	16.35	<=23.98	Pass
			13	21.65	-5.70	15.95	<=23.98	Pass
			24	21.61	-5.70	15.91	<=23.98	Pass
		12	0	20.77	-5.70	15.07	<=23.98	Pass
			6	21.02	-5.70	15.32	<=23.98	Pass
			13	20.87	-5.70	15.17	<=23.98	Pass
		25	0	20.93	-5.70	15.23	<=23.98	Pass
	2310	1	0	21.75	-5.70	16.05	<=23.98	Pass
			13	22.37	-5.70	16.67	<=23.98	Pass
			24	22.09	-5.70	16.39	<=23.98	Pass
		12	0	20.97	-5.70	15.27	<=23.98	Pass
			6	20.71	-5.70	15.01	<=23.98	Pass
			13	20.91	-5.70	15.21	<=23.98	Pass
		25	0	20.77	-5.70	15.07	<=23.98	Pass
	2312.5	1	0	22.09	-5.70	16.39	<=23.98	Pass



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64QAM			13	21.92	-5.70	16.22	<=23.98	Pass
			24	21.95	-5.70	16.25	<=23.98	Pass
		12	0	20.65	-5.70	14.95	<=23.98	Pass
			6	21.07	-5.70	15.37	<=23.98	Pass
			13	20.91	-5.70	15.21	<=23.98	Pass
		25	0	20.73	-5.70	15.03	<=23.98	Pass
			0	20.83	-5.70	15.13	<=23.98	Pass
			13	21.24	-5.70	15.54	<=23.98	Pass
		12	0	19.89	-5.70	14.19	<=23.98	Pass
			6	20.17	-5.70	14.47	<=23.98	Pass
256QAM	2307.5	1	13	21.01	-5.70	15.31	<=23.98	Pass
			0	19.89	-5.70	14.19	<=23.98	Pass
			6	20.17	-5.70	14.47	<=23.98	Pass
		12	13	19.73	-5.70	14.03	<=23.98	Pass
			0	19.72	-5.70	14.02	<=23.98	Pass
			0	21.07	-5.70	15.37	<=23.98	Pass
		1	13	20.96	-5.70	15.26	<=23.98	Pass
			24	20.87	-5.70	15.17	<=23.98	Pass
			0	19.84	-5.70	14.14	<=23.98	Pass
		12	6	19.80	-5.70	14.10	<=23.98	Pass
			13	19.63	-5.70	13.93	<=23.98	Pass
			0	19.86	-5.70	14.16	<=23.98	Pass
	2312.5	1	0	20.91	-5.70	15.21	<=23.98	Pass
			13	20.70	-5.70	15.00	<=23.98	Pass
			24	20.87	-5.70	15.17	<=23.98	Pass
		12	0	19.74	-5.70	14.04	<=23.98	Pass
			6	19.62	-5.70	13.92	<=23.98	Pass
			13	19.57	-5.70	13.87	<=23.98	Pass
		25	0	19.73	-5.70	14.03	<=23.98	Pass
			0	17.80	-5.70	12.10	<=23.98	Pass
			13	17.92	-5.70	12.22	<=23.98	Pass
		12	24	18.00	-5.70	12.30	<=23.98	Pass
			0	17.76	-5.70	12.06	<=23.98	Pass
			6	18.03	-5.70	12.33	<=23.98	Pass
	2310	1	13	17.86	-5.70	12.16	<=23.98	Pass
			0	17.78	-5.70	12.08	<=23.98	Pass
			0	17.95	-5.70	12.25	<=23.98	Pass
		12	13	18.06	-5.70	12.36	<=23.98	Pass
			24	18.01	-5.70	12.31	<=23.98	Pass
			0	17.90	-5.70	12.20	<=23.98	Pass
		25	6	18.07	-5.70	12.37	<=23.98	Pass
			13	17.77	-5.70	12.07	<=23.98	Pass
			0	17.85	-5.70	12.15	<=23.98	Pass
	2312.5	1	0	17.79	-5.70	12.09	<=23.98	Pass
			13	17.79	-5.70	12.09	<=23.98	Pass
			24	17.72	-5.70	12.02	<=23.98	Pass
		12	0	18.01	-5.70	12.31	<=23.98	Pass
			6	17.72	-5.70	12.02	<=23.98	Pass
			13	17.75	-5.70	12.05	<=23.98	Pass
		25	0	17.82	-5.70	12.12	<=23.98	Pass

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



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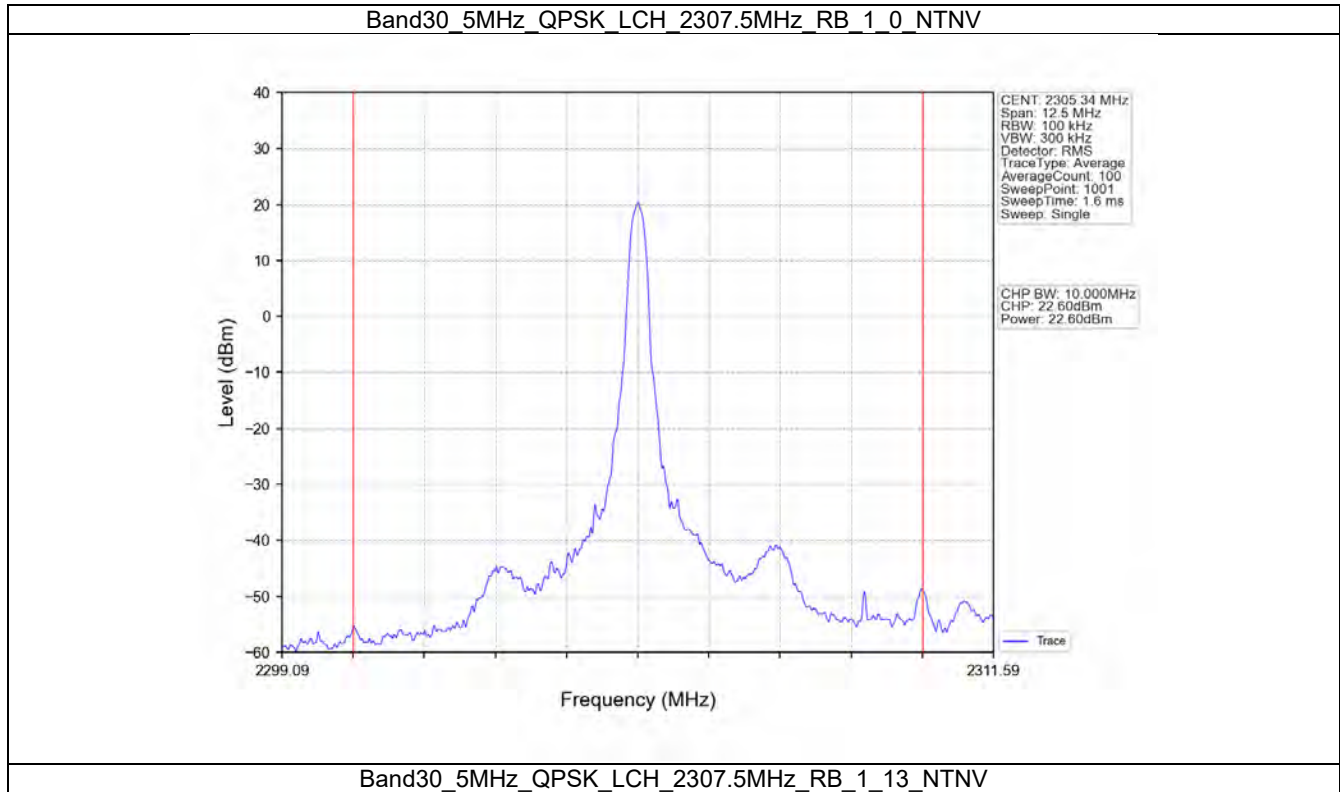
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Rev.: 01

Page: 6 of 190

1.2.2 Test Graph



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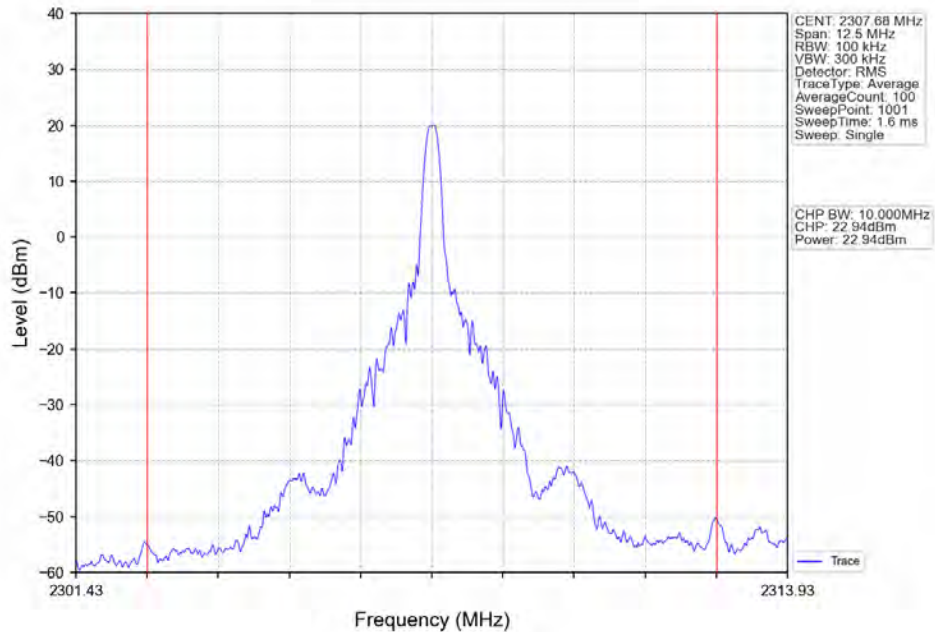
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Rev.: 01

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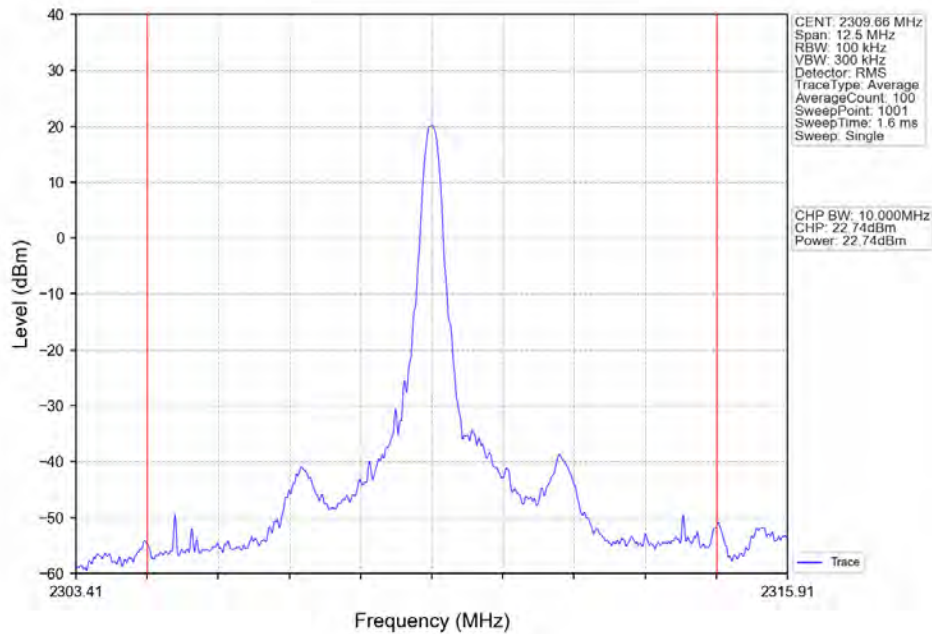
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Report No.: SUCR240400009001

Rev.: 01

Page: 8 of 190

Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_24_NTNV



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_0_NTNV



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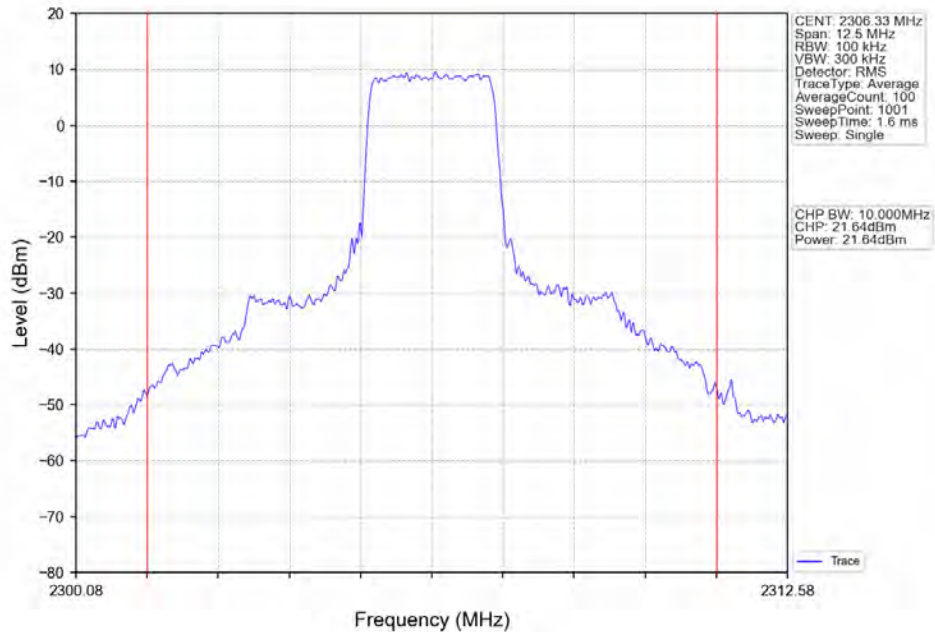
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Report No.: SUCR240400009001

Rev.: 01

Page: 9 of 190



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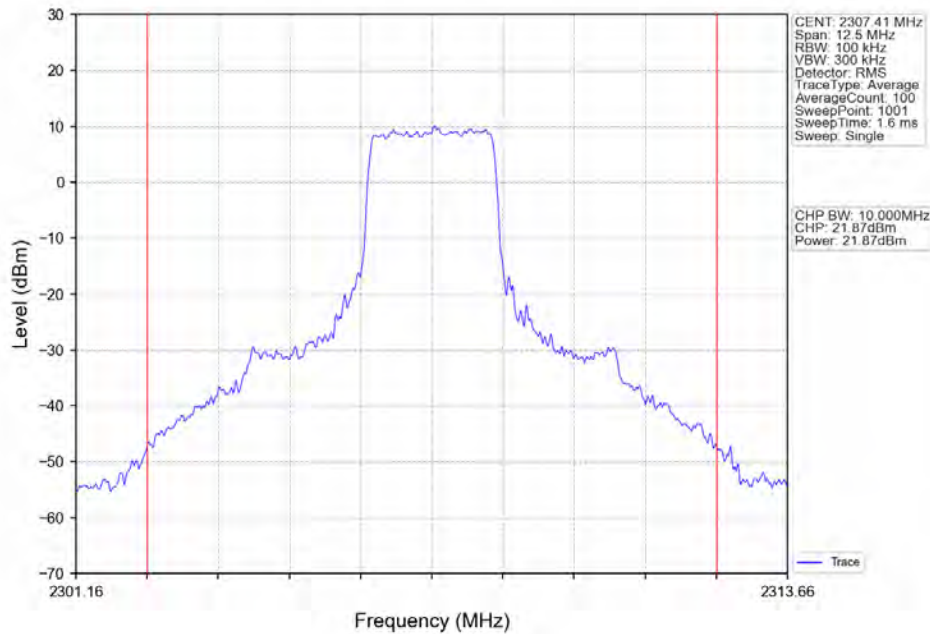
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Rev.: 01

Page: 10 of 190

Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_6_NTNV



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_12_13_NTNV



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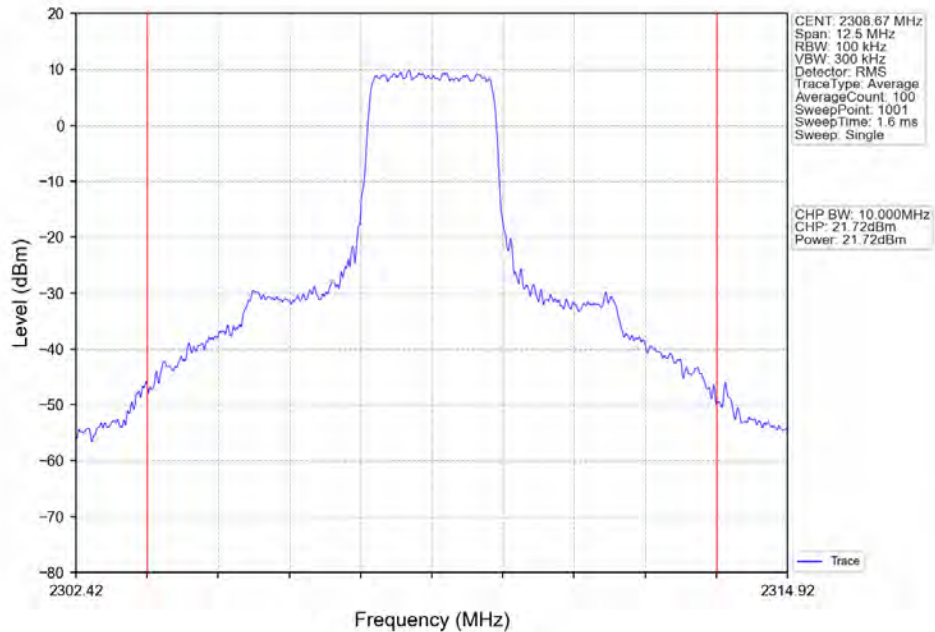
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Rev.: 01

Page: 11 of 190



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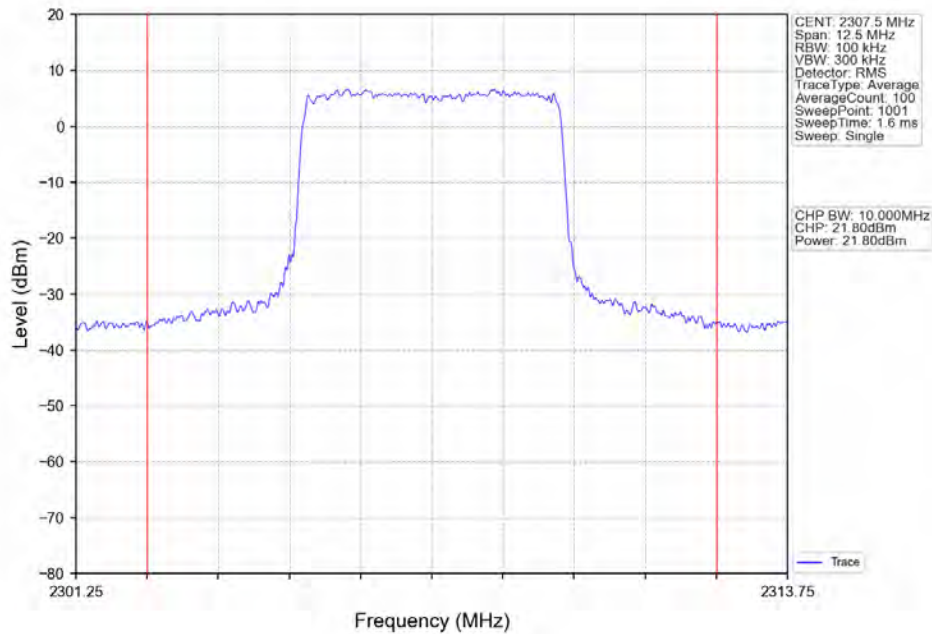
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Report No.: SUCR240400009001

Rev.: 01

Page: 12 of 190

Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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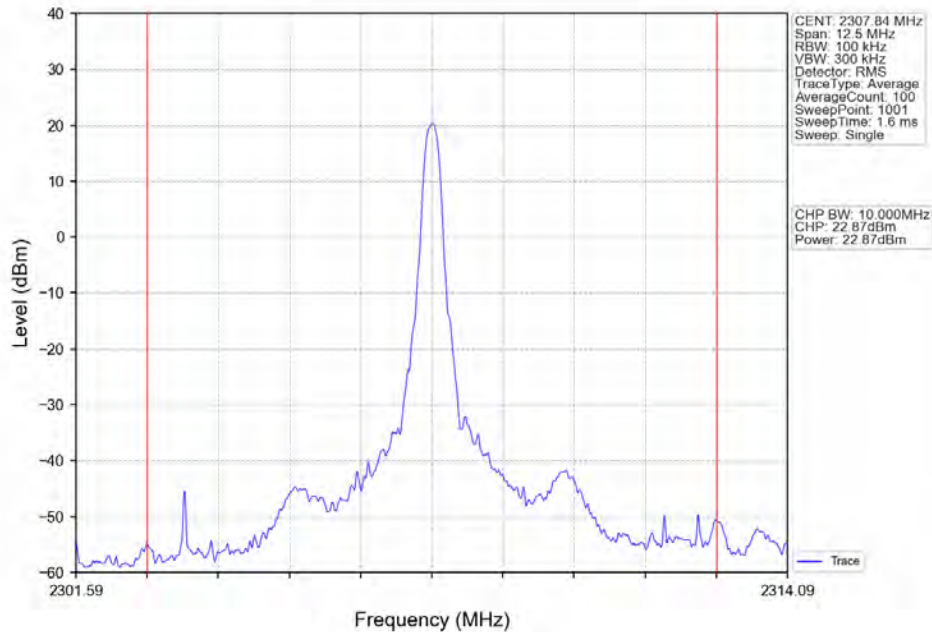
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Page: 13 of 190



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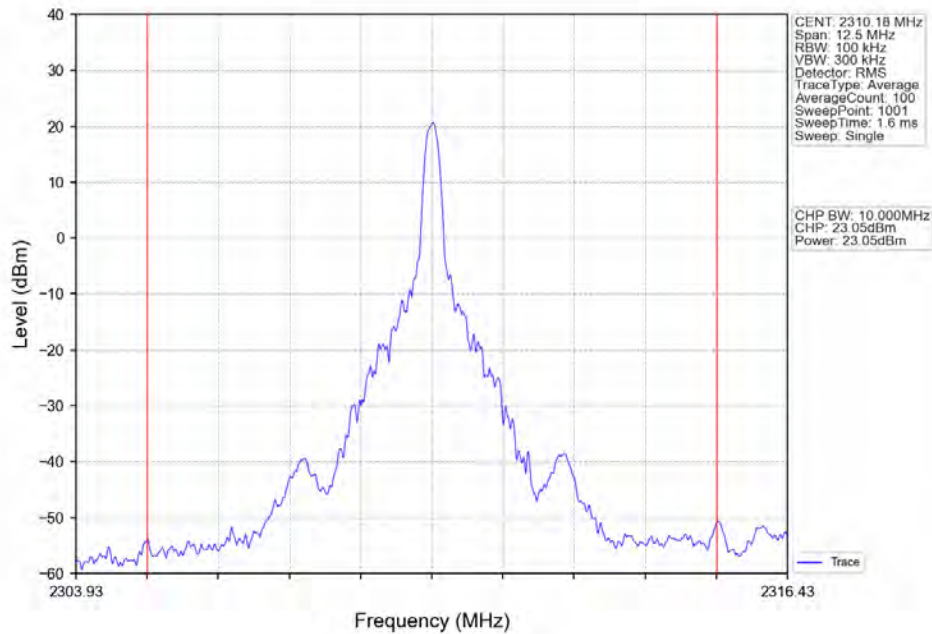
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Band30_5MHz_QPSK_MCH_2310MHz_RB_1_24_NTNV



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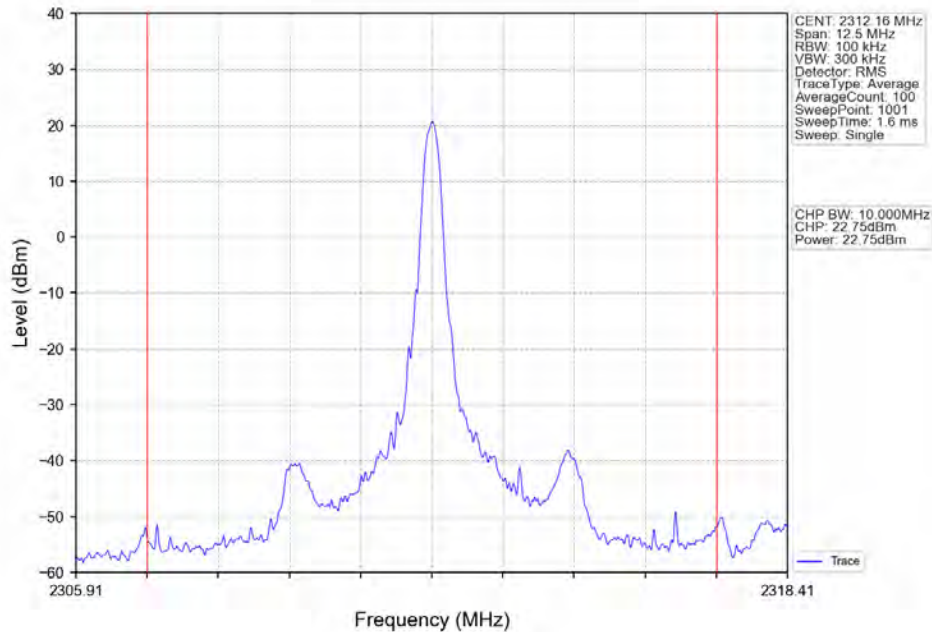
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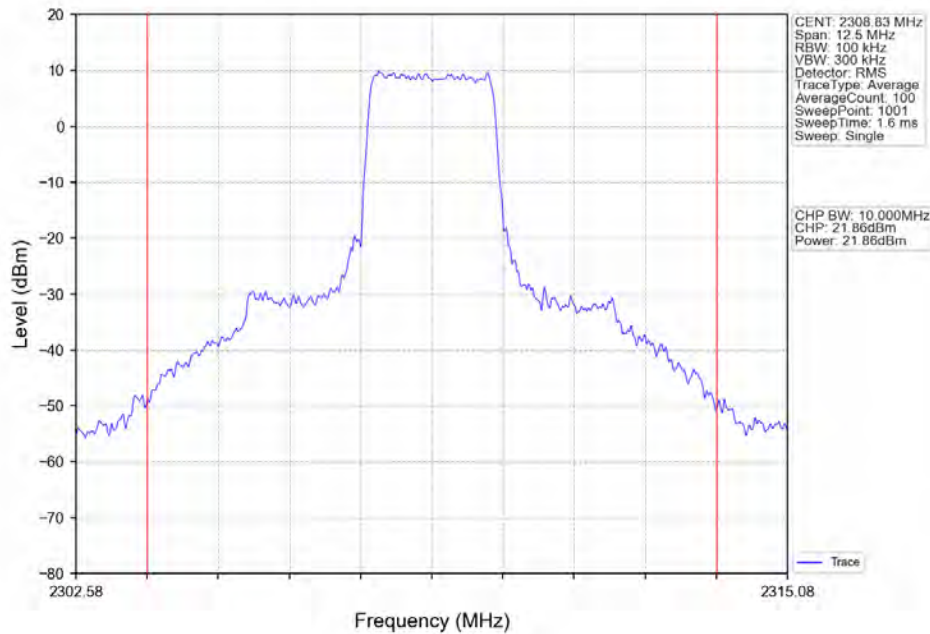
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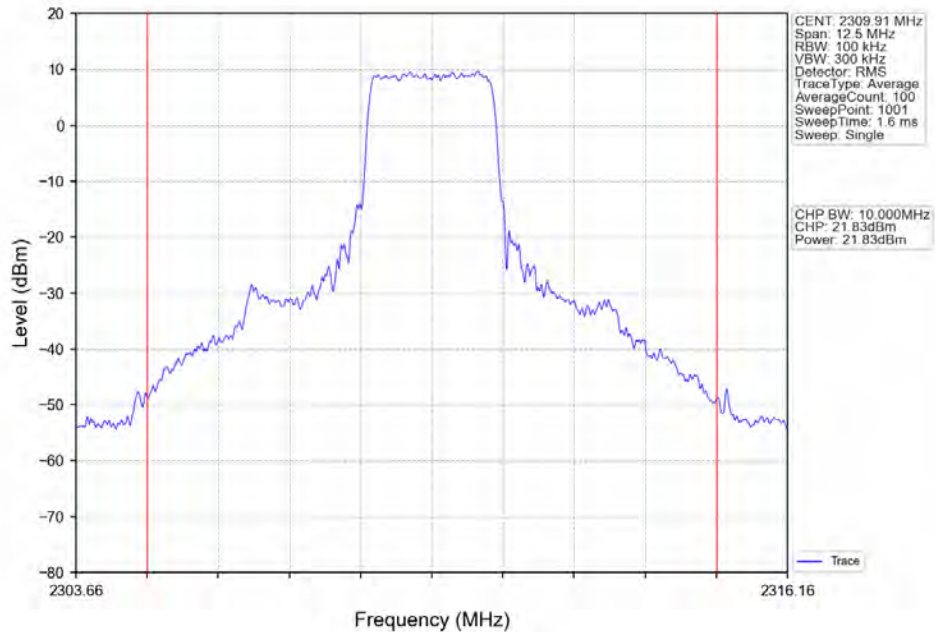
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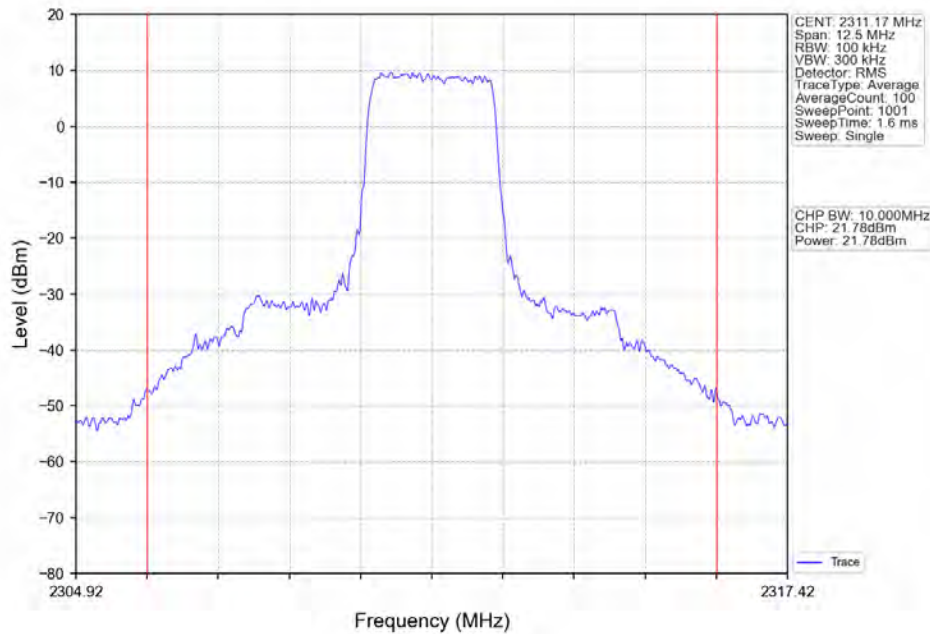
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Report No.: SUCR240400009001

Rev.: 01

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Band30_5MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



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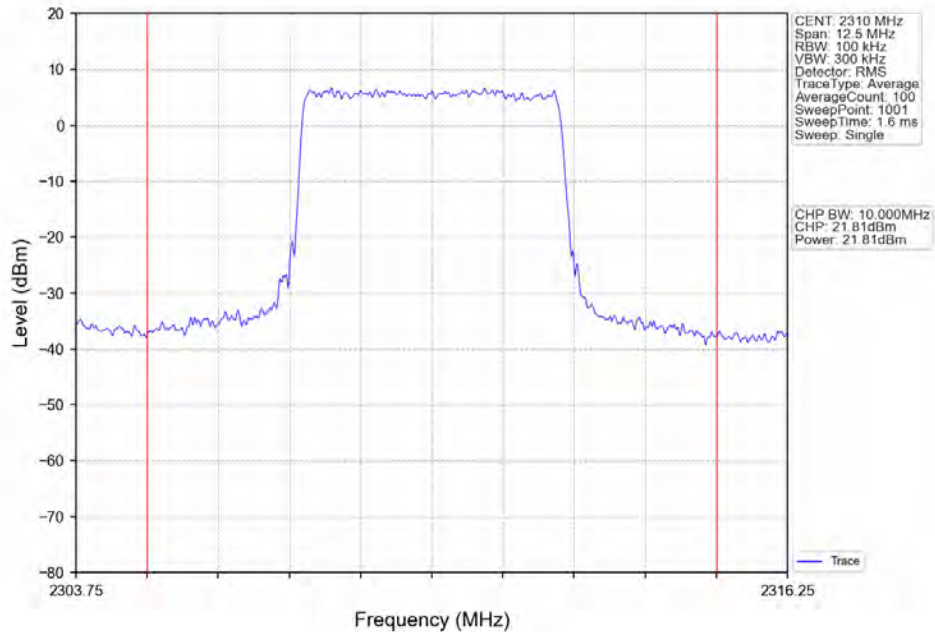
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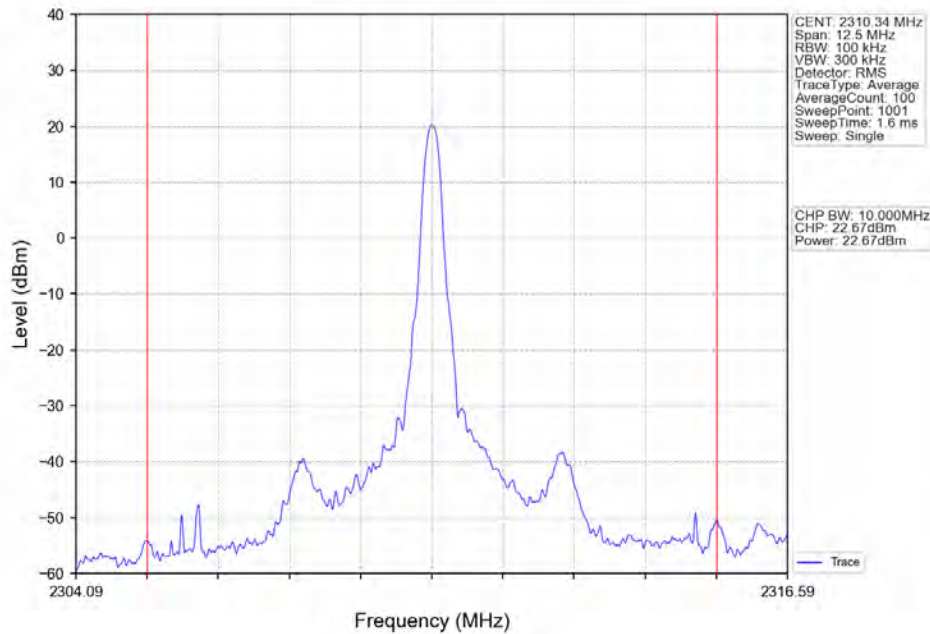
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Report No.: SUCR240400009001

Rev.: 01

Page: 20 of 190

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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_13_NTNV



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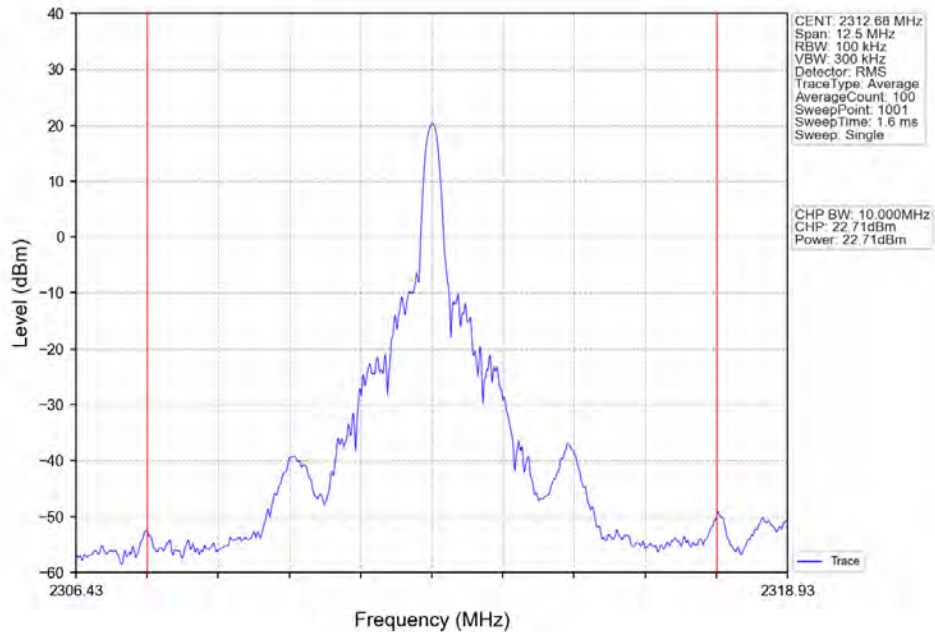
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Report No.: SUCR240400009001

Rev.: 01

Page: 21 of 190



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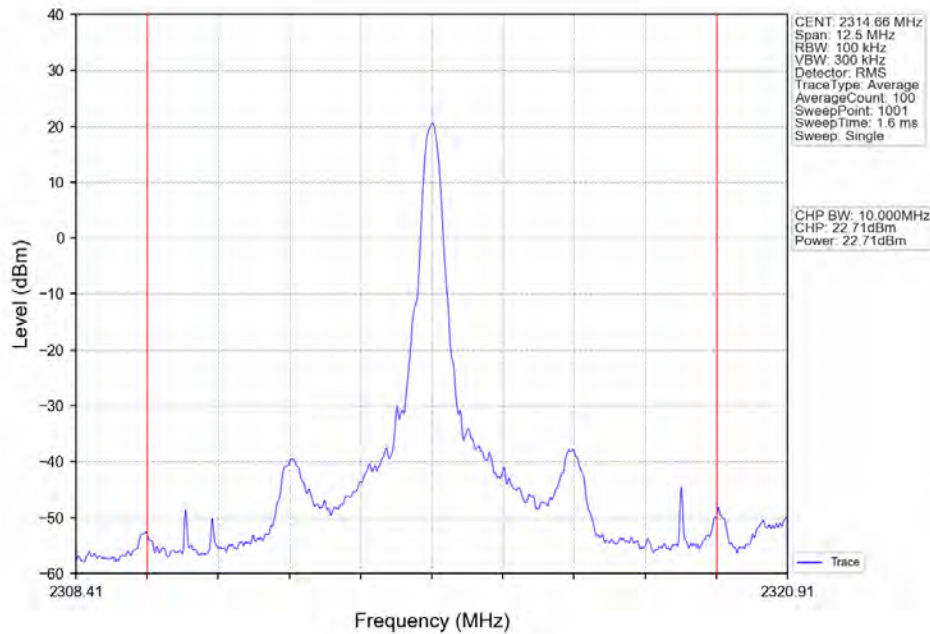
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Report No.: SUCR240400009001

Rev.: 01

Page: 22 of 190

Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_12_0_NTNV



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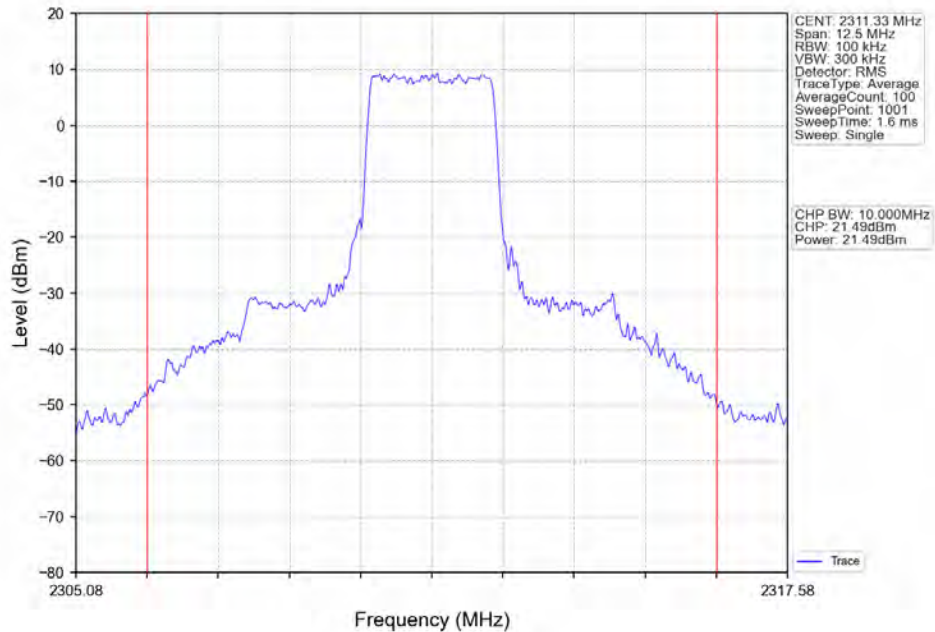
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Rev.: 01

Page: 23 of 190



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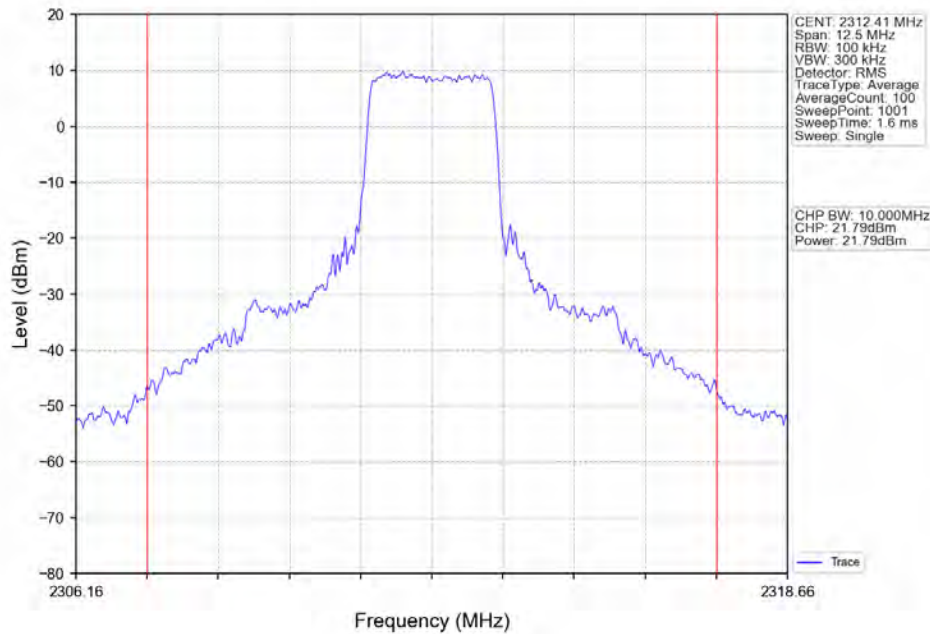
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Report No.: SUCR240400009001

Rev.: 01

Page: 24 of 190

Band30_5MHz_QPSK_HCH_2312.5MHz_RB_12_6_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_12_13_NTNV



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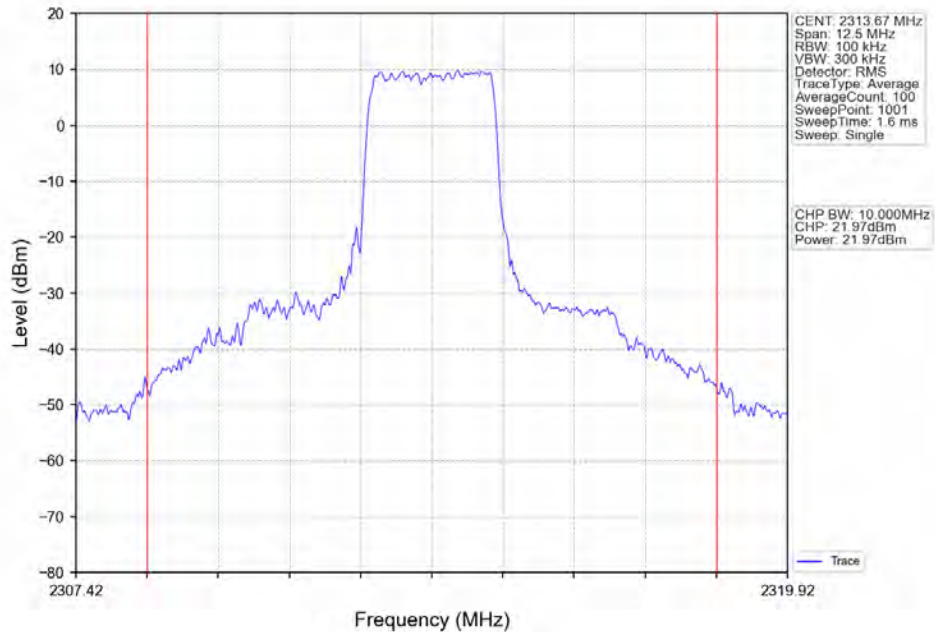
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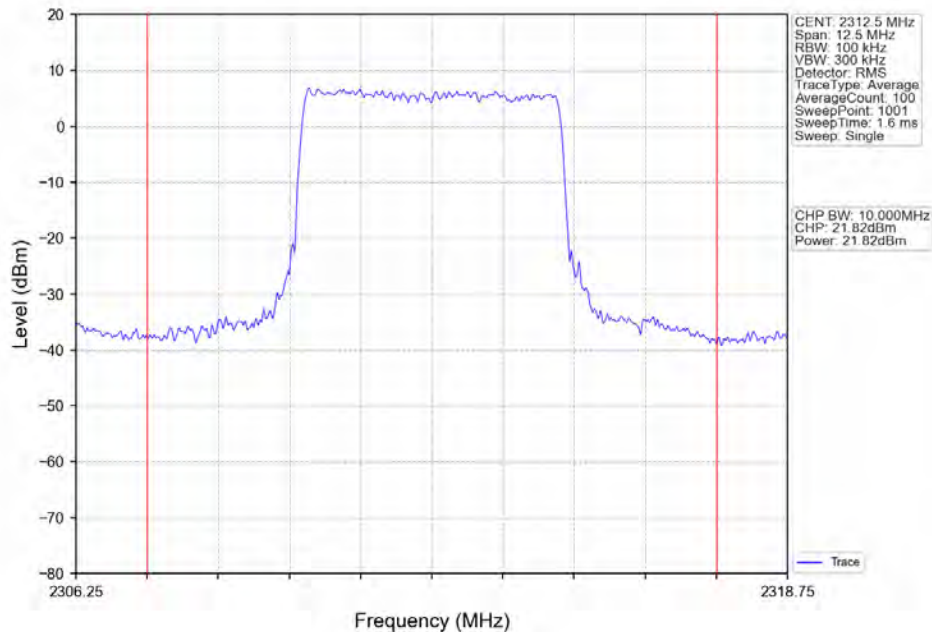
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Rev.: 01

Page: 26 of 190

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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



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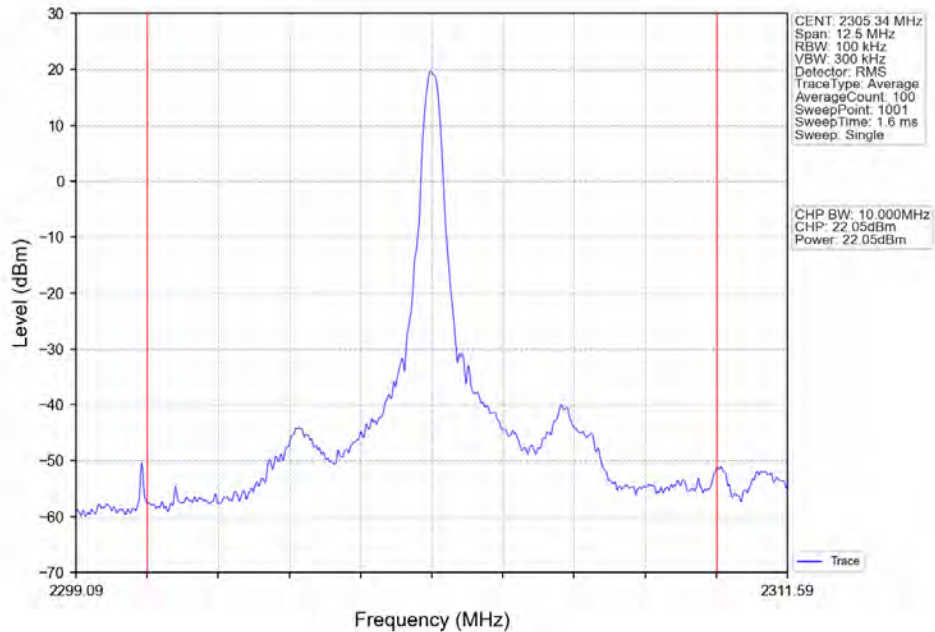
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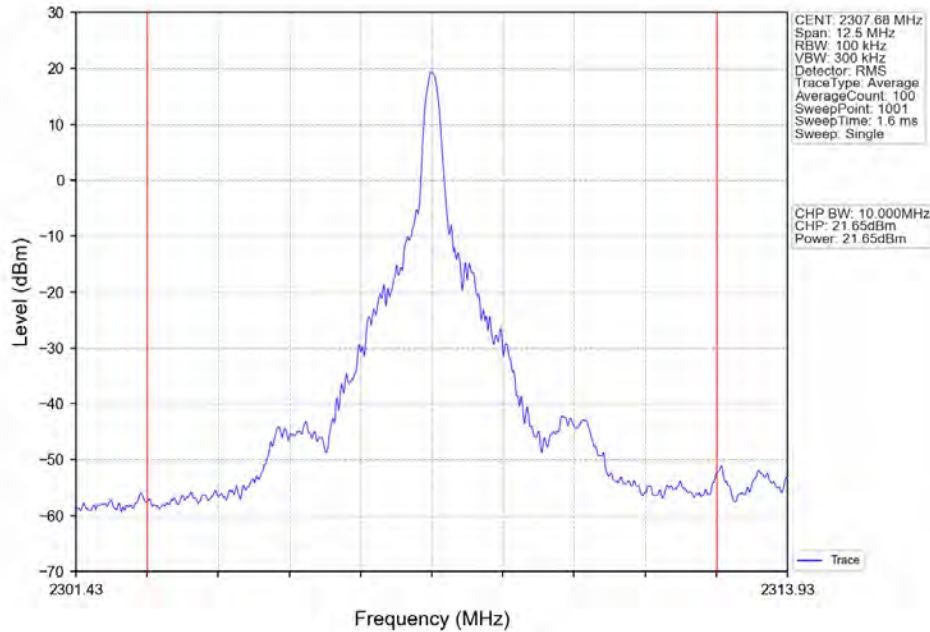
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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_24_NTNV



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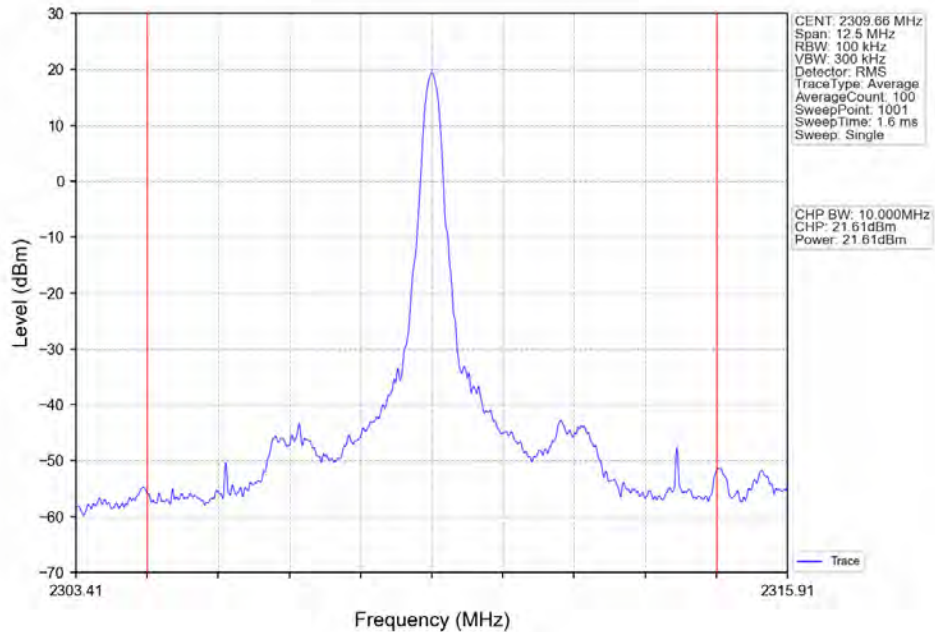
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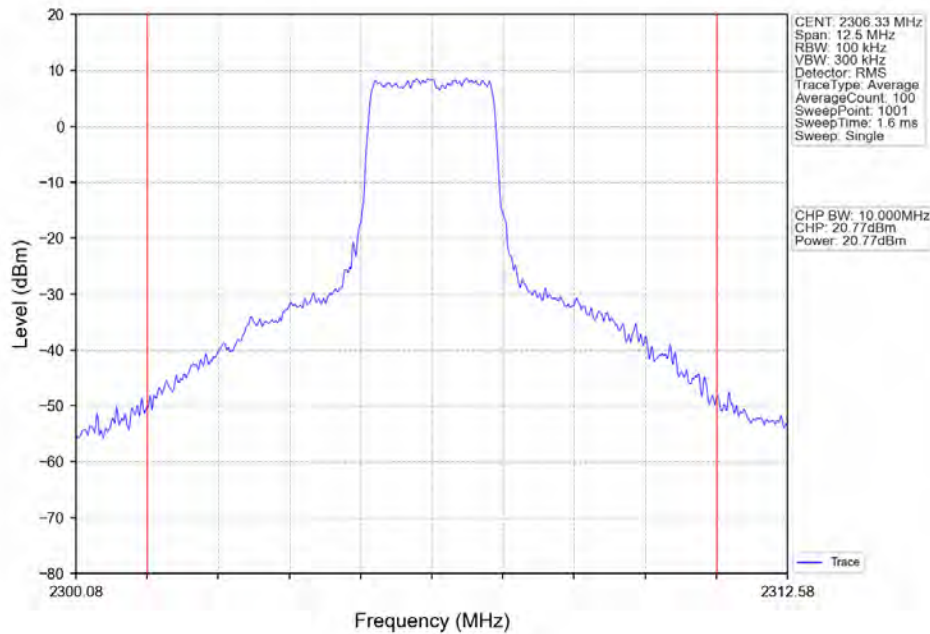
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Rev.: 01

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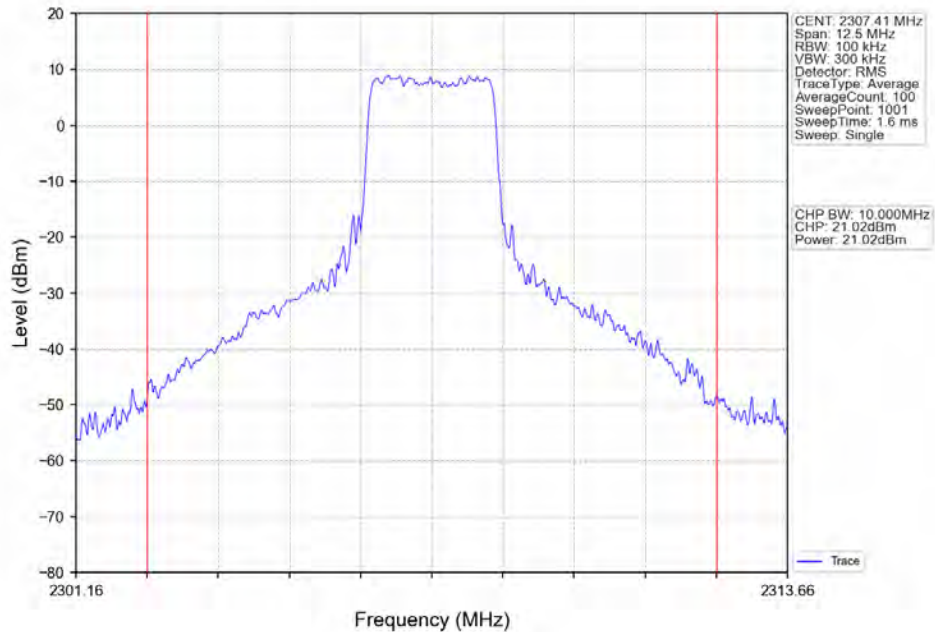
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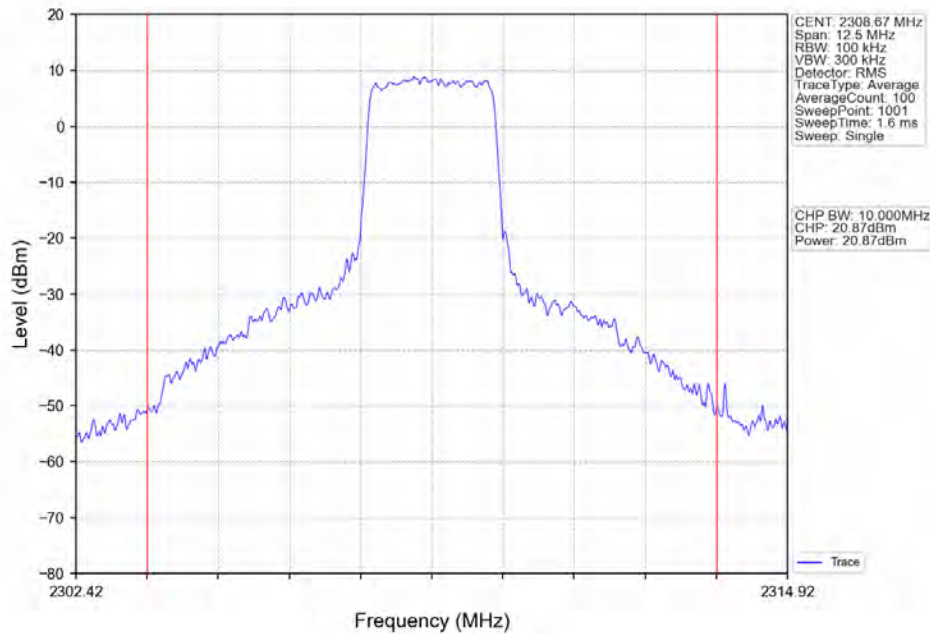
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Report No.: SUCR240400009001

Rev.: 01

Page: 32 of 190

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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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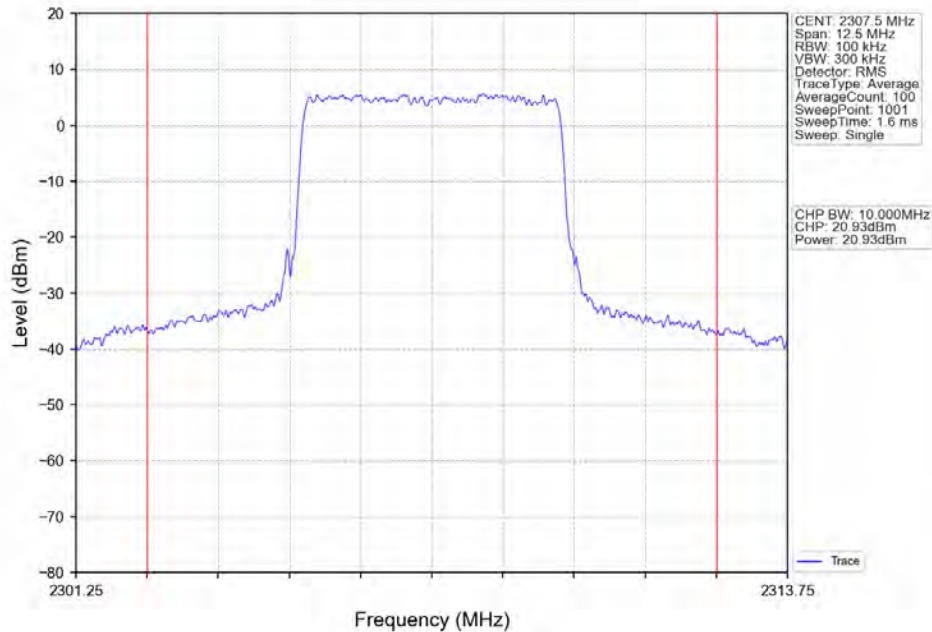
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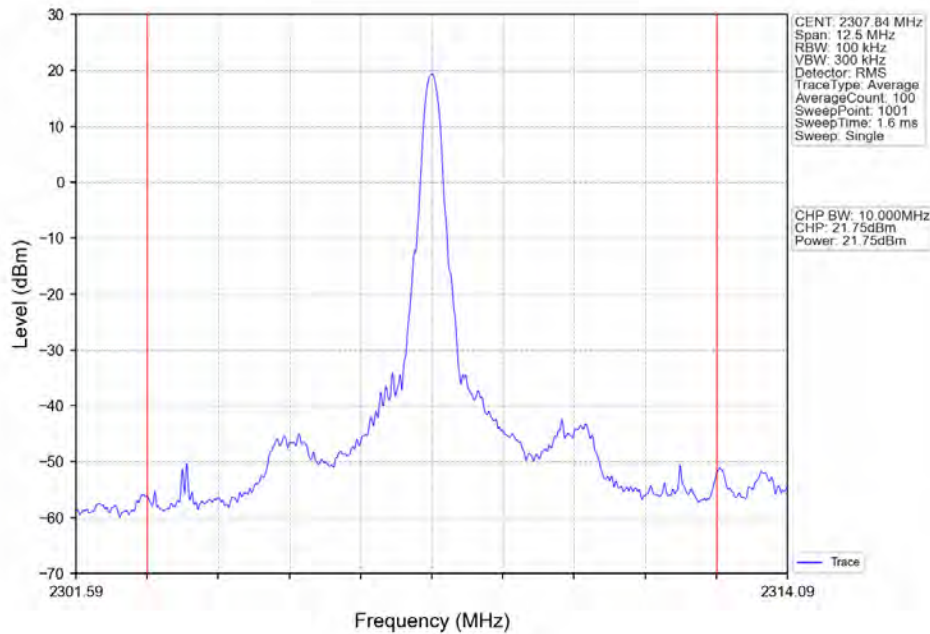
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Report No.: SUCR240400009001

Rev.: 01

Page: 34 of 190

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Band30_5MHz_16QAM_MCH_2310MHz_RB_1_13_NTNV



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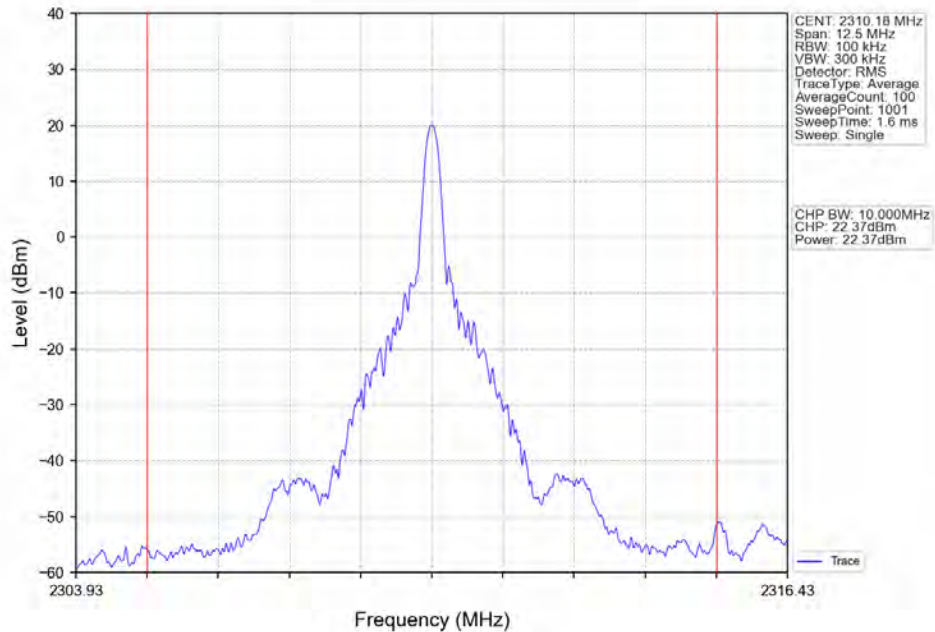
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Report No.: SUCR240400009001

Rev.: 01

Page: 35 of 190



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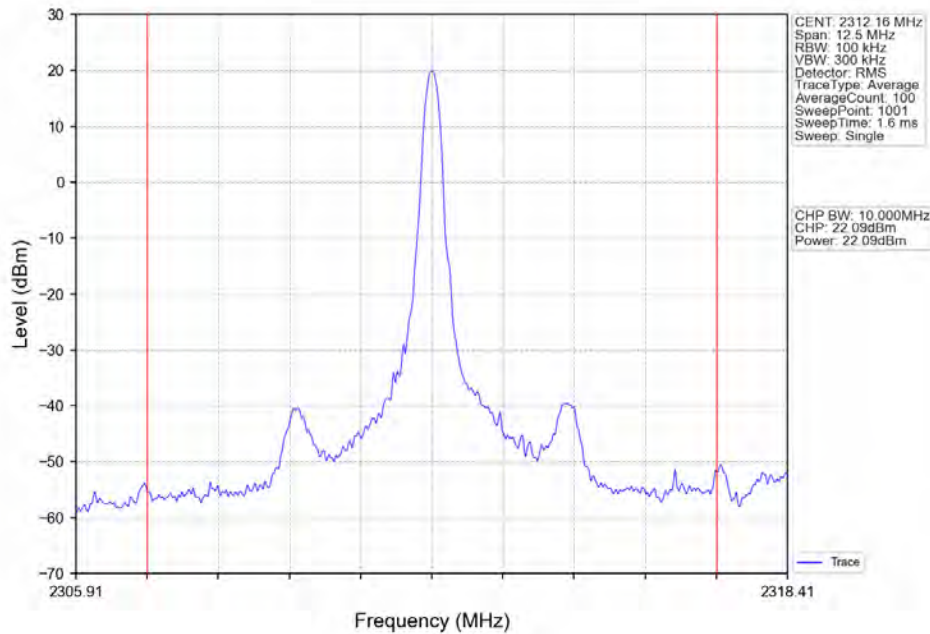
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Report No.: SUCR240400009001

Rev.: 01

Page: 36 of 190

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Band30_5MHz_16QAM_MCH_2310MHz_RB_12_0_NTNV



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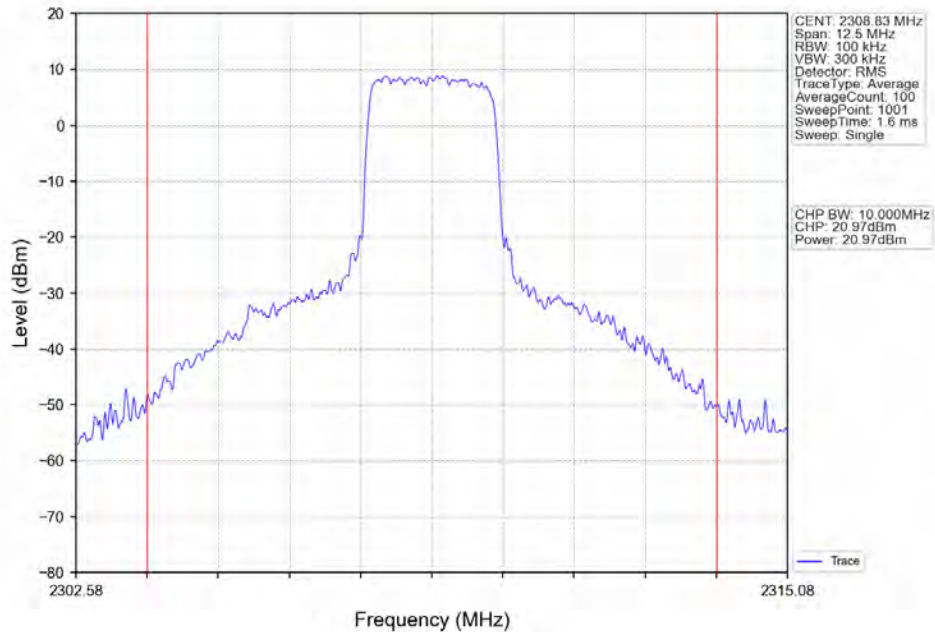
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Report No.: SUCR240400009001

Rev.: 01

Page: 37 of 190



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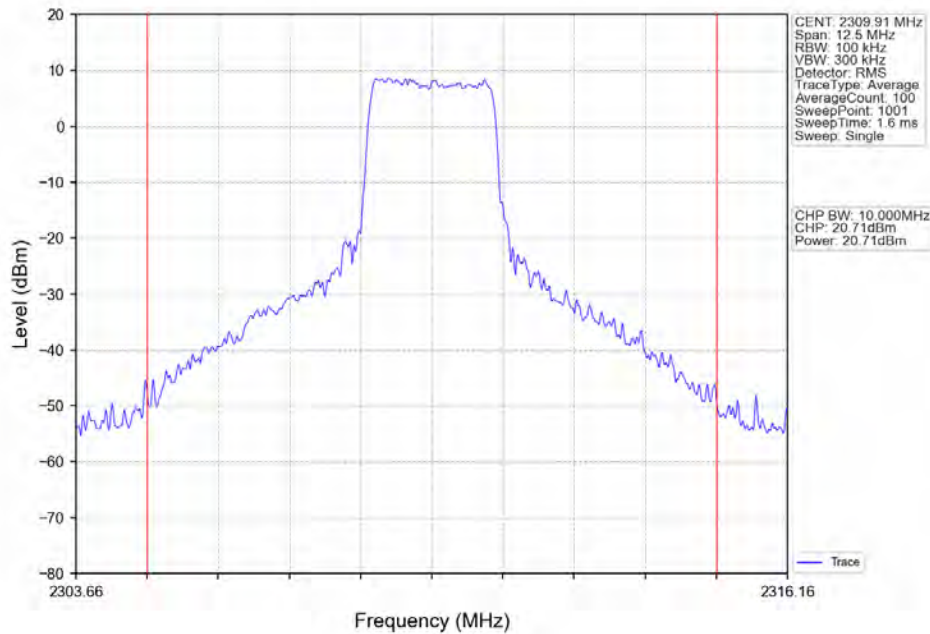
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Report No.: SUCR240400009001

Rev.: 01

Page: 38 of 190

Band30_5MHz_16QAM_MCH_2310MHz_RB_12_6_NTNV



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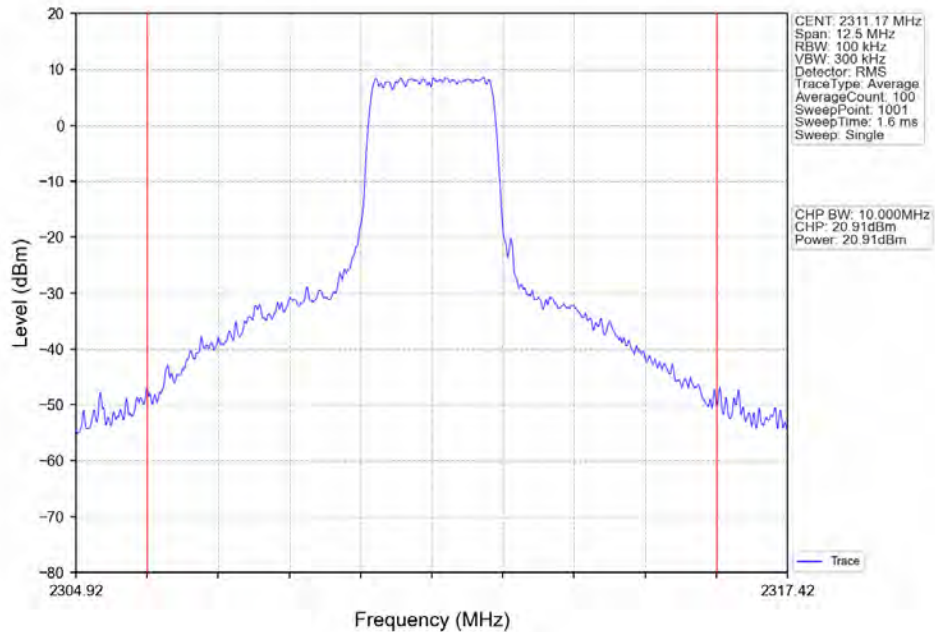
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Rev.: 01

Page: 39 of 190



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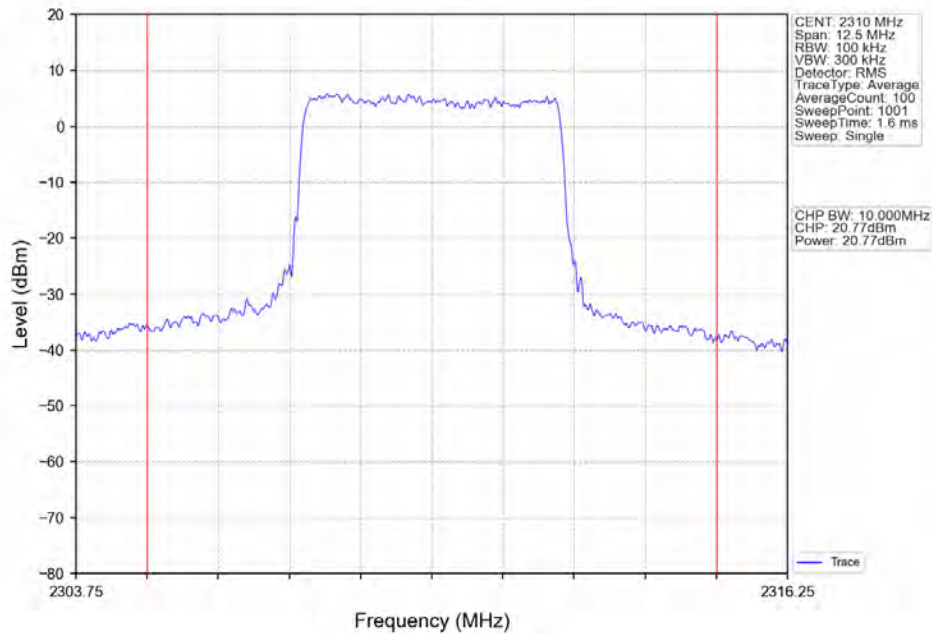
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Rev.: 01

Page: 40 of 190

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Band30_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV



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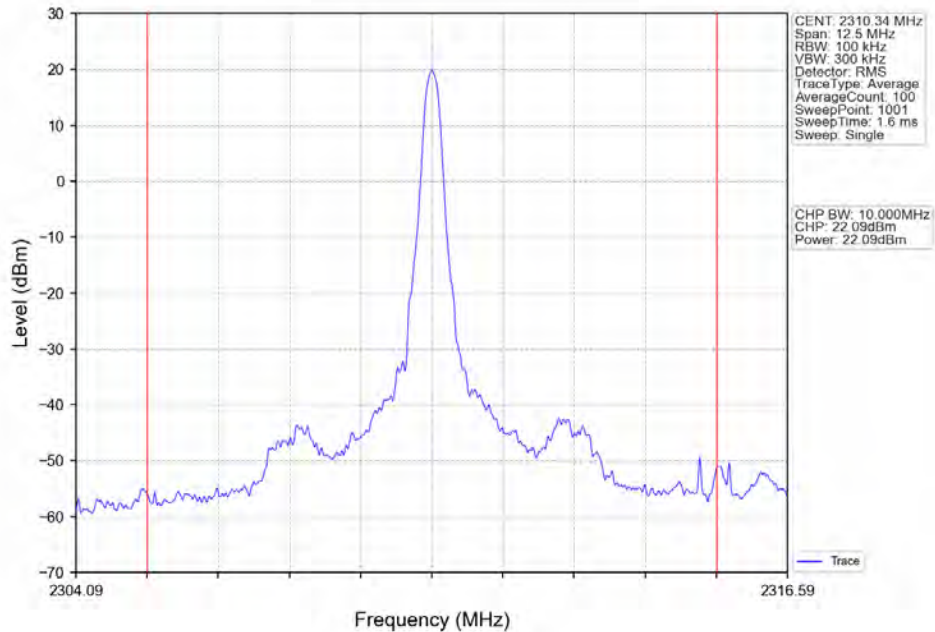
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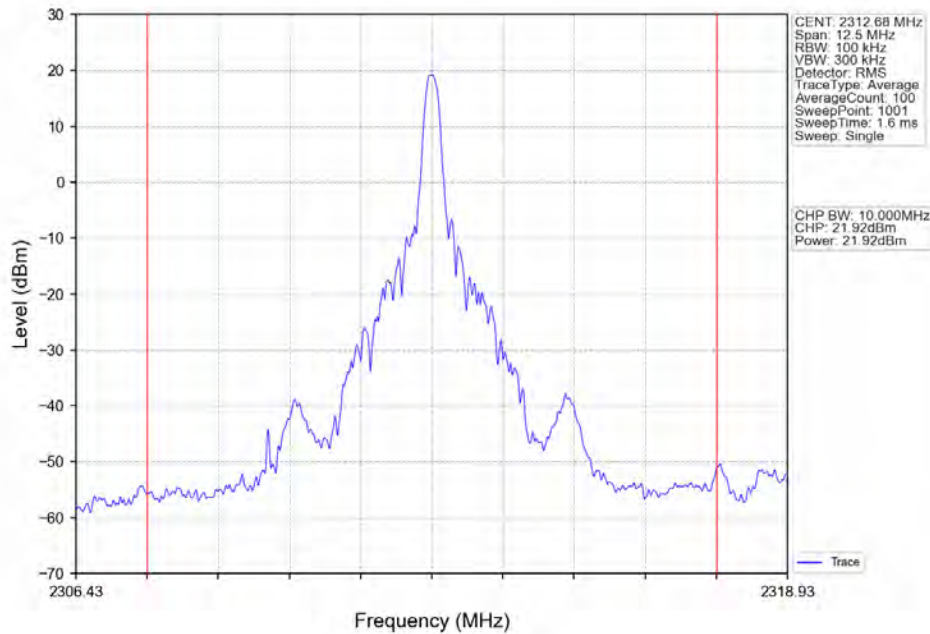
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Rev.: 01

Page: 42 of 190

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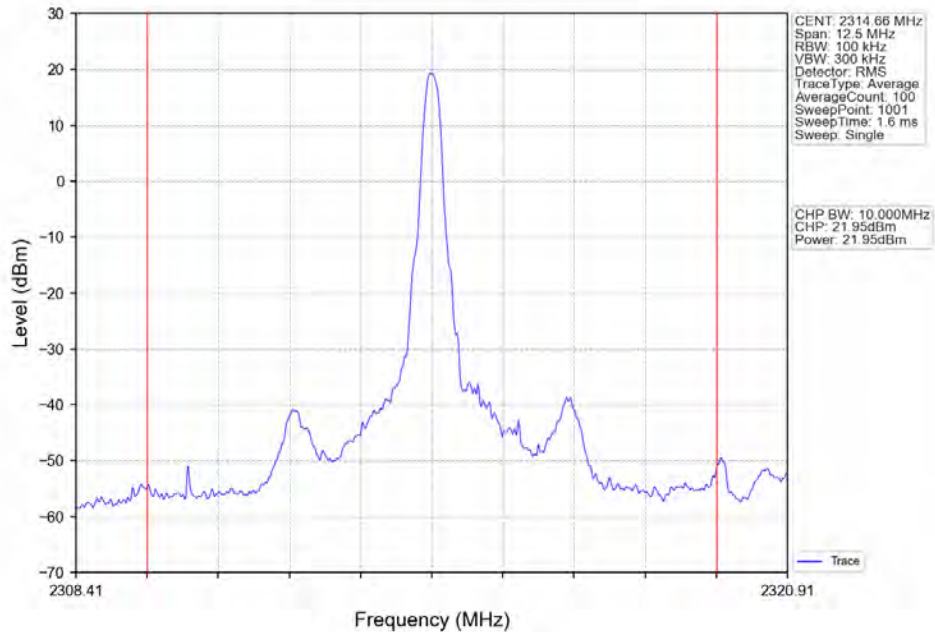
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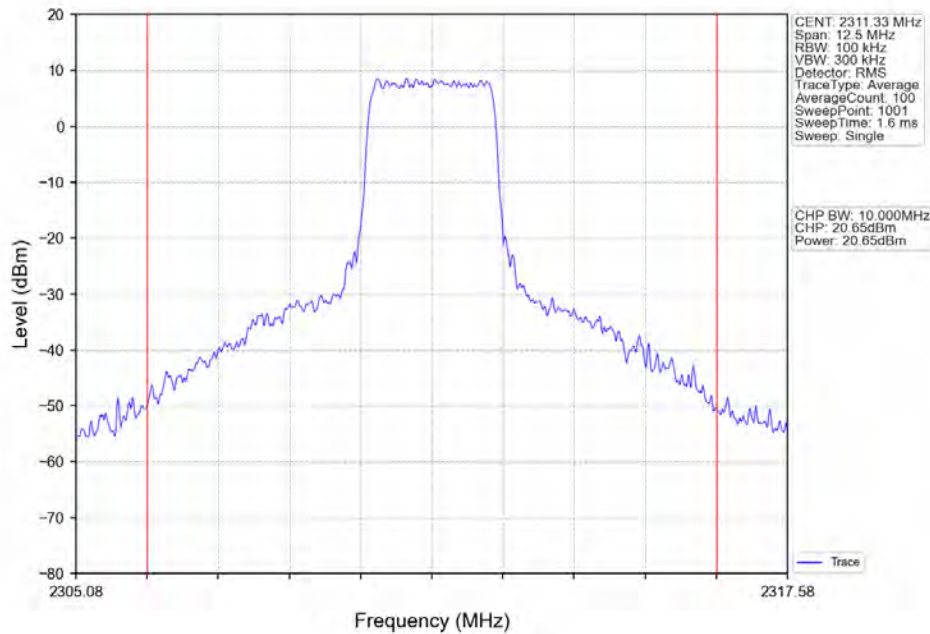
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Report No.: SUCR240400009001

Rev.: 01

Page: 44 of 190

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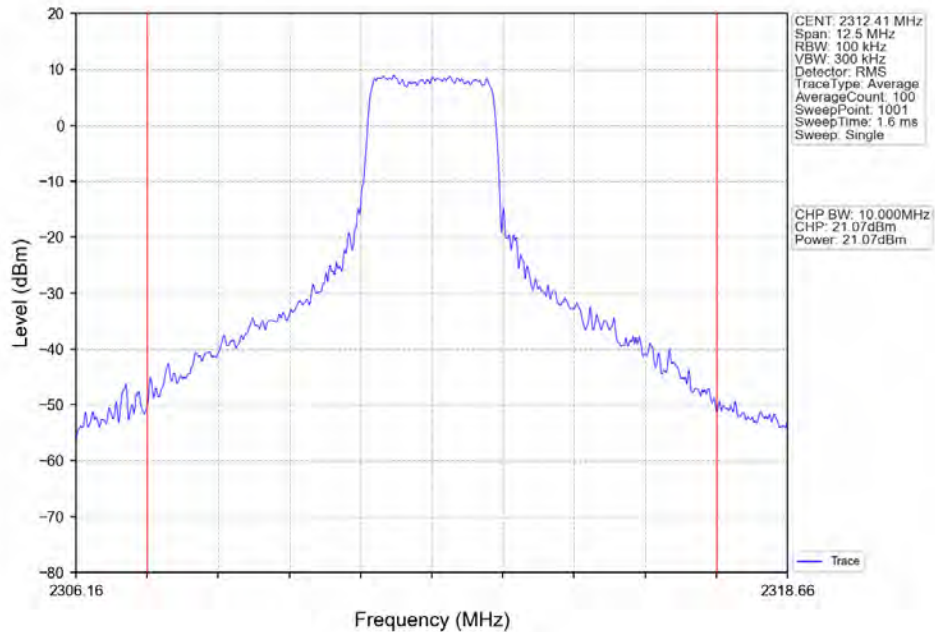
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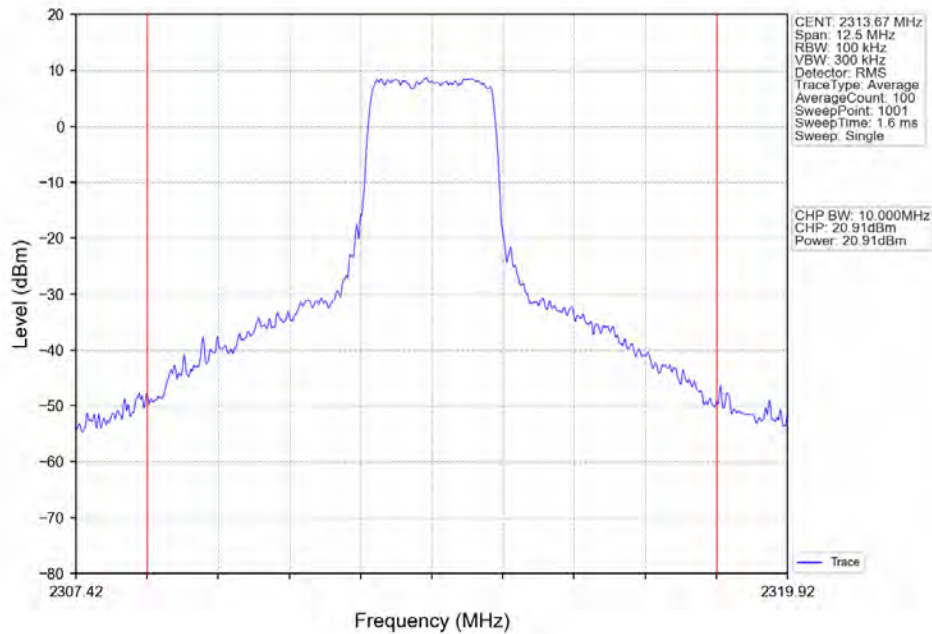
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Report No.: SUCR240400009001

Rev.: 01

Page: 46 of 190

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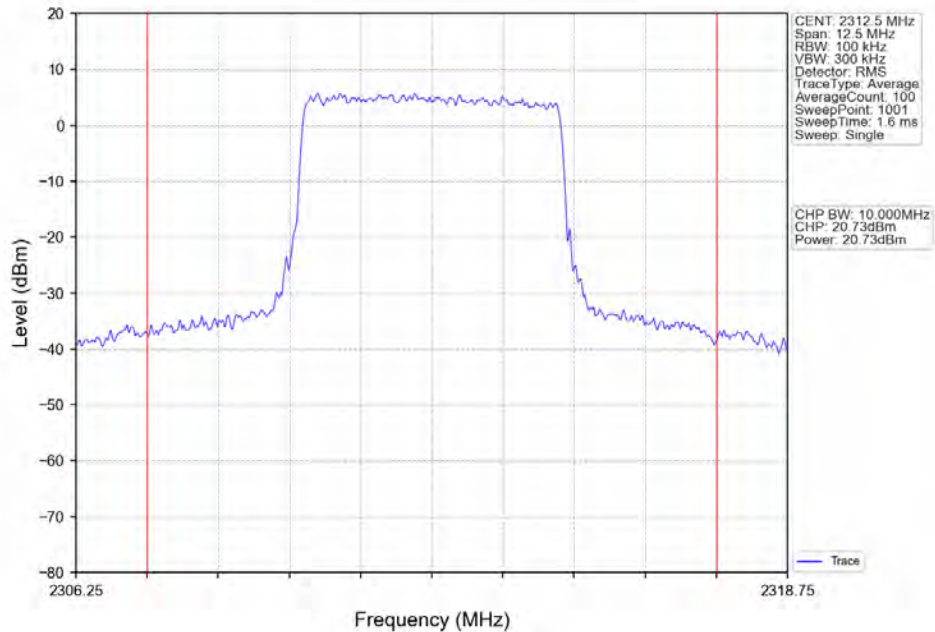
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Report No.: SUCR240400009001

Rev.: 01

Page: 47 of 190



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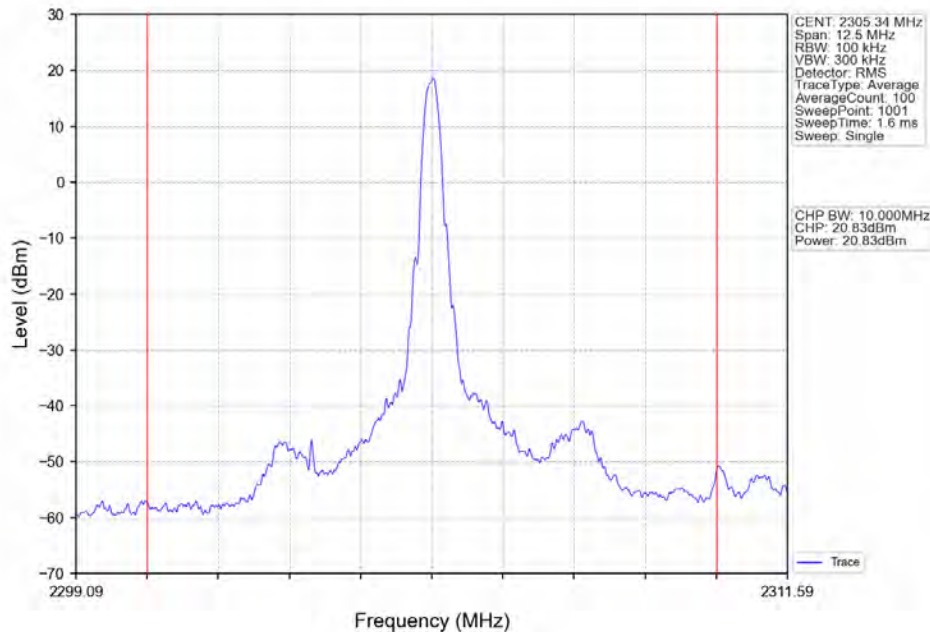
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Report No.: SUCR240400009001

Rev.: 01

Page: 48 of 190

Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_13_NTNV



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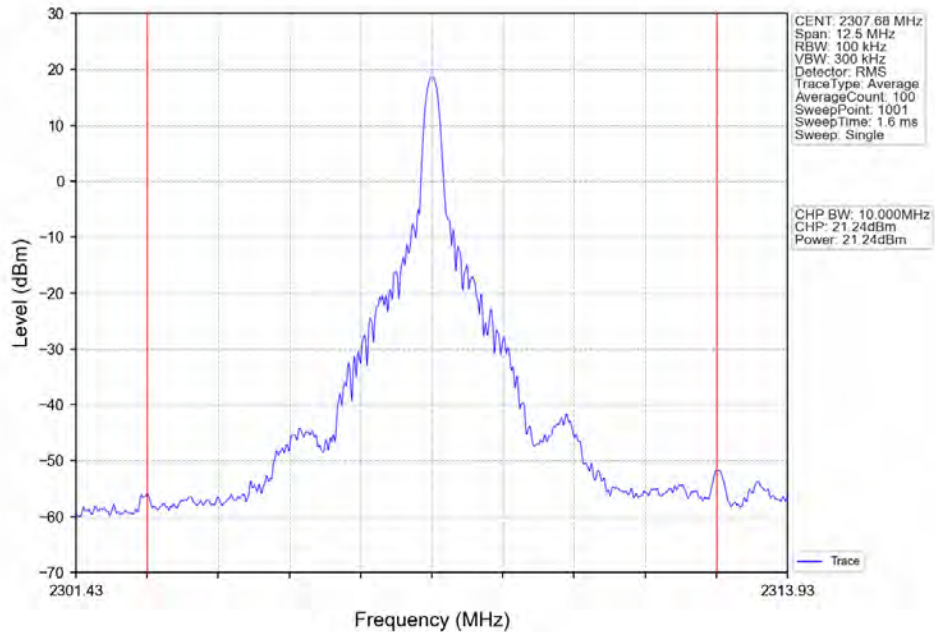
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Report No.: SUCR240400009001

Rev.: 01

Page: 49 of 190



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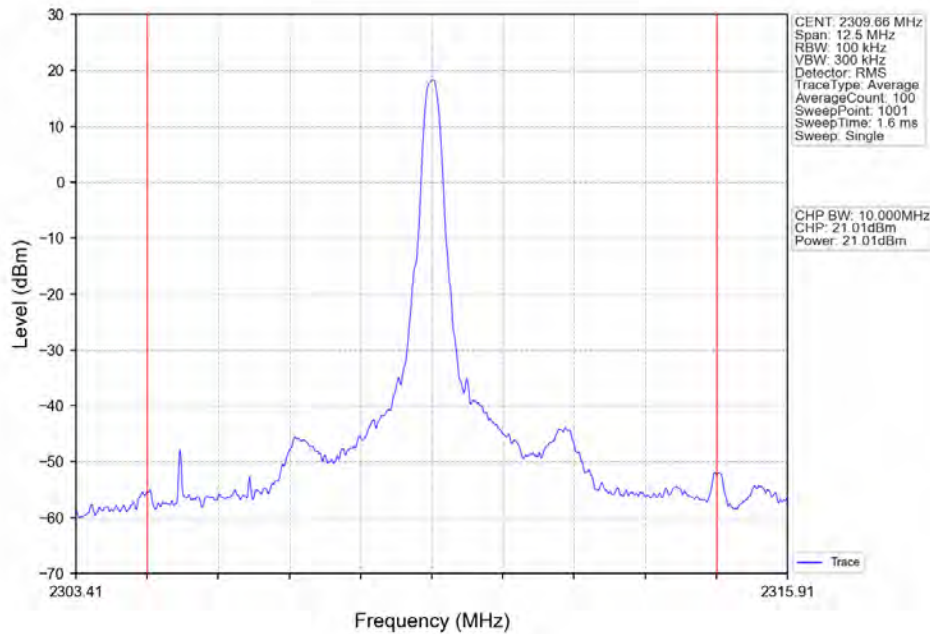
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Report No.: SUCR240400009001

Rev.: 01

Page: 50 of 190

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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_12_0_NTNV



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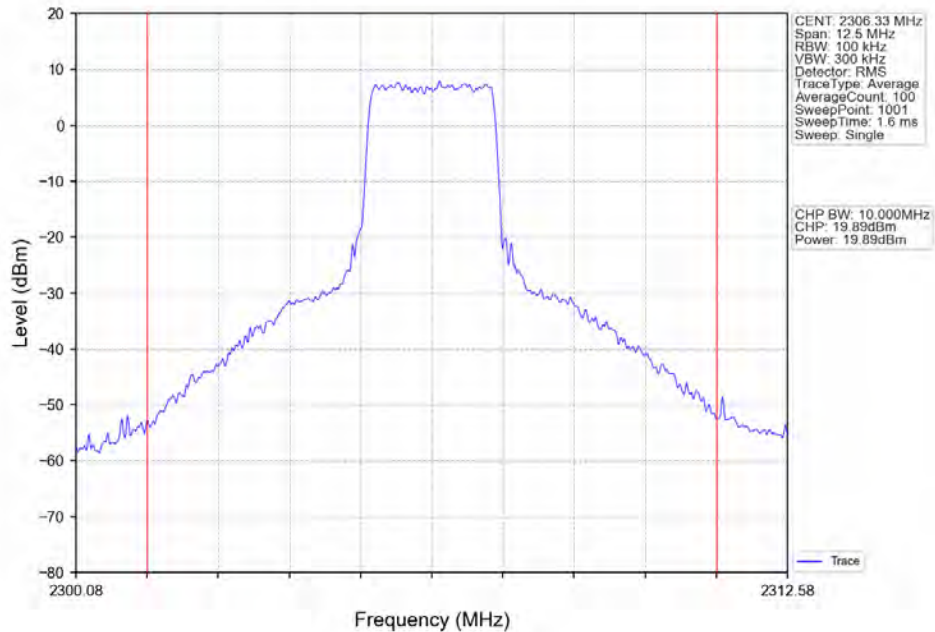
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Page: 51 of 190



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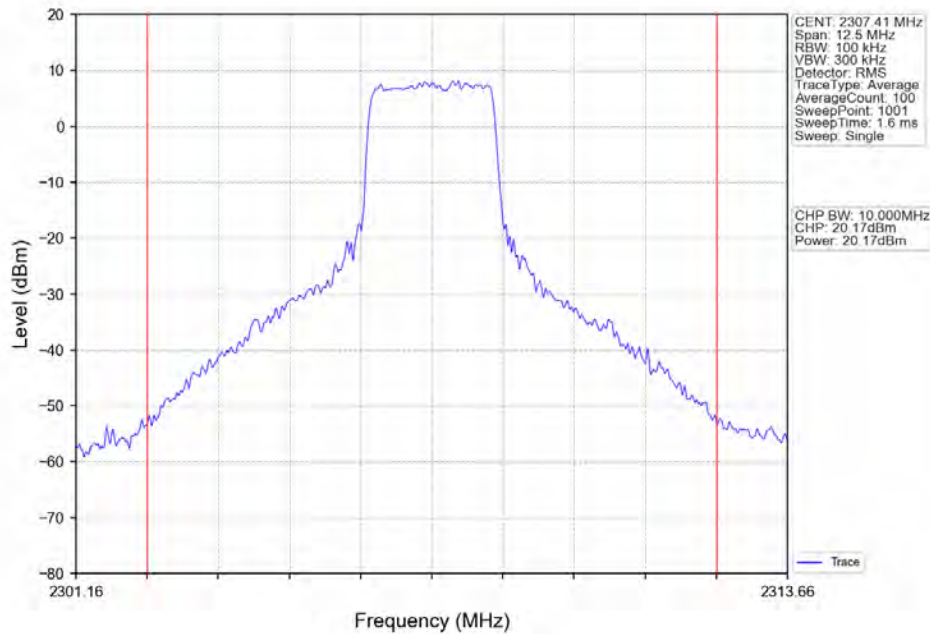
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Rev.: 01

Page: 52 of 190

Band30_5MHz_64QAM_LCH_2307.5MHz_RB_12_6_NTNV



Band30_5MHz_64QAM_LCH_2307.5MHz_RB_12_13_NTNV



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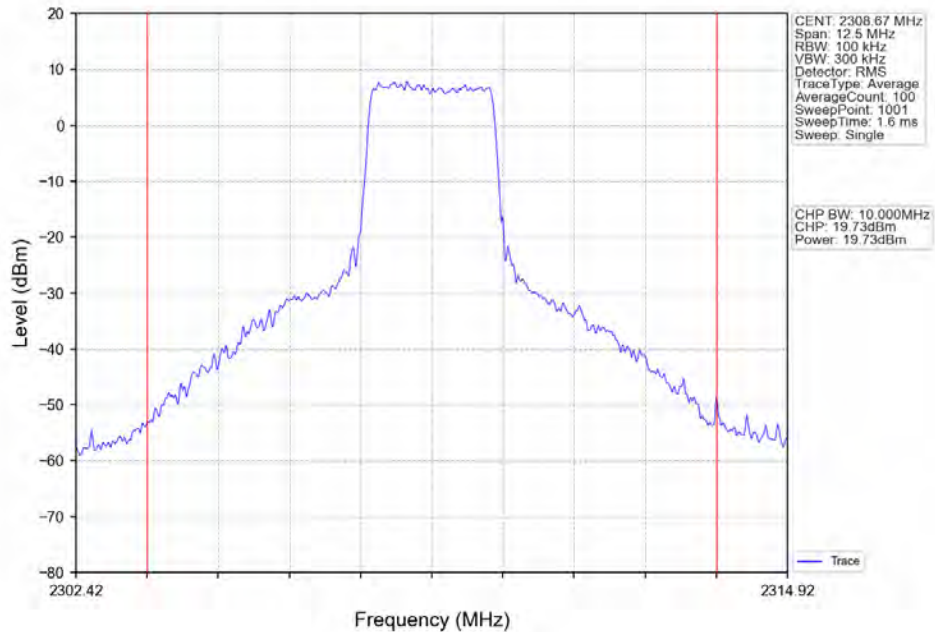
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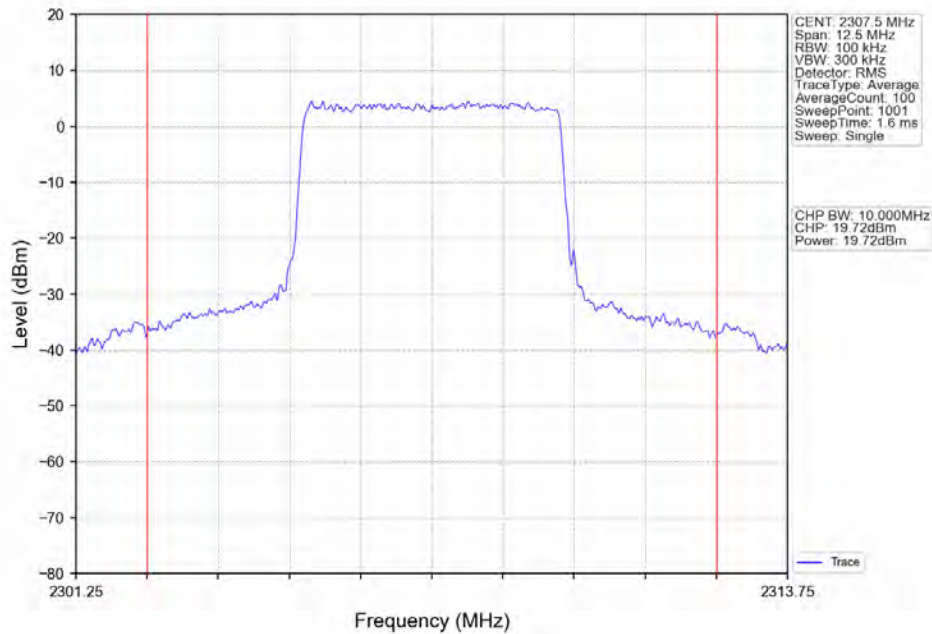
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Band30_5MHz_64QAM_MCH_2310MHz_RB_1_0_NTNV



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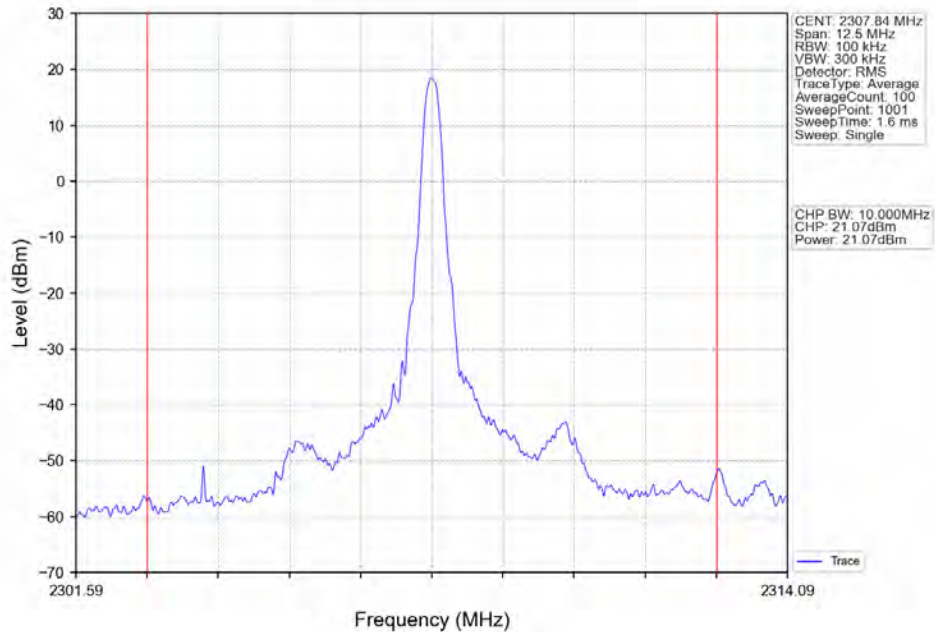
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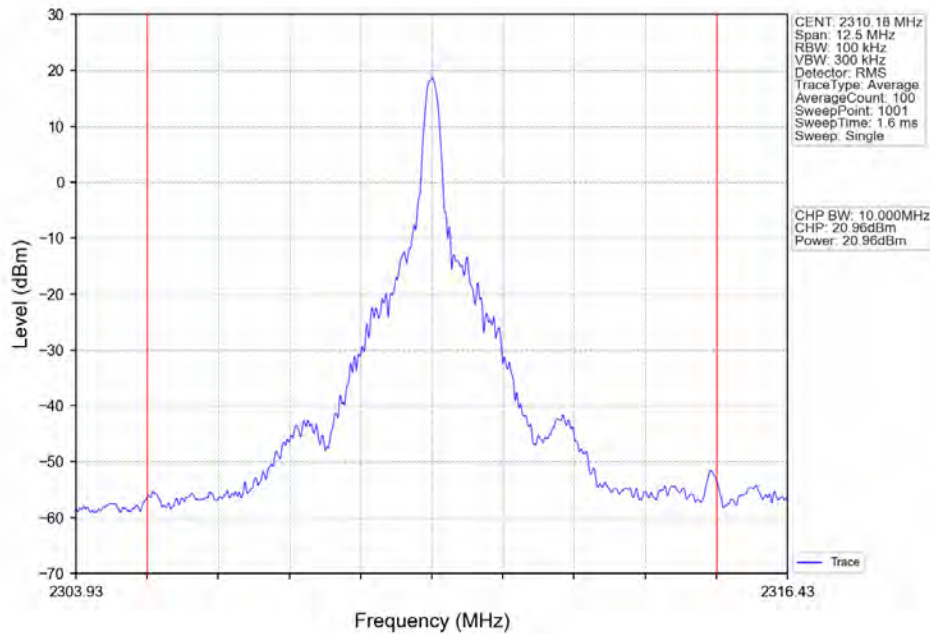
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Rev.: 01

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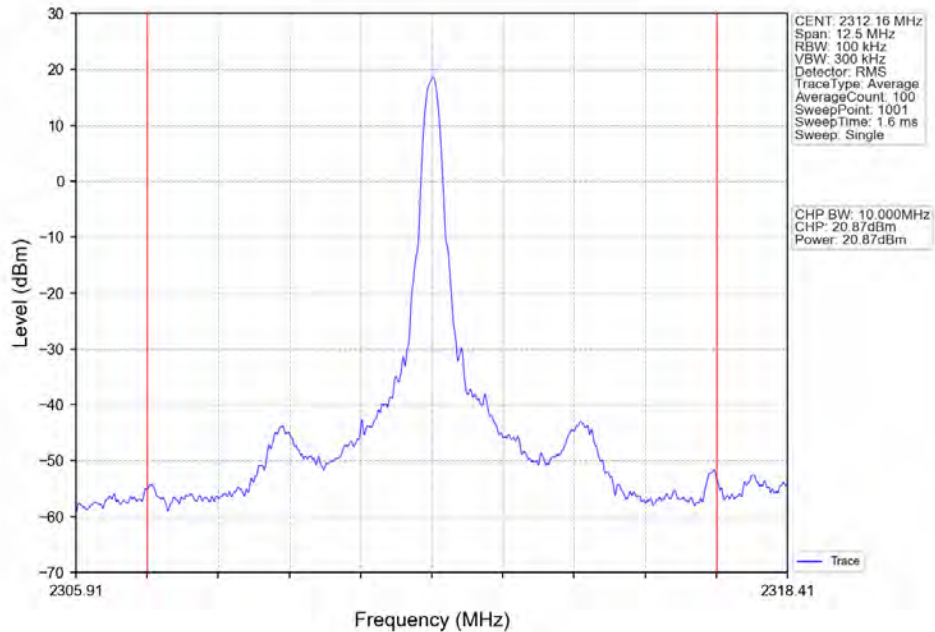
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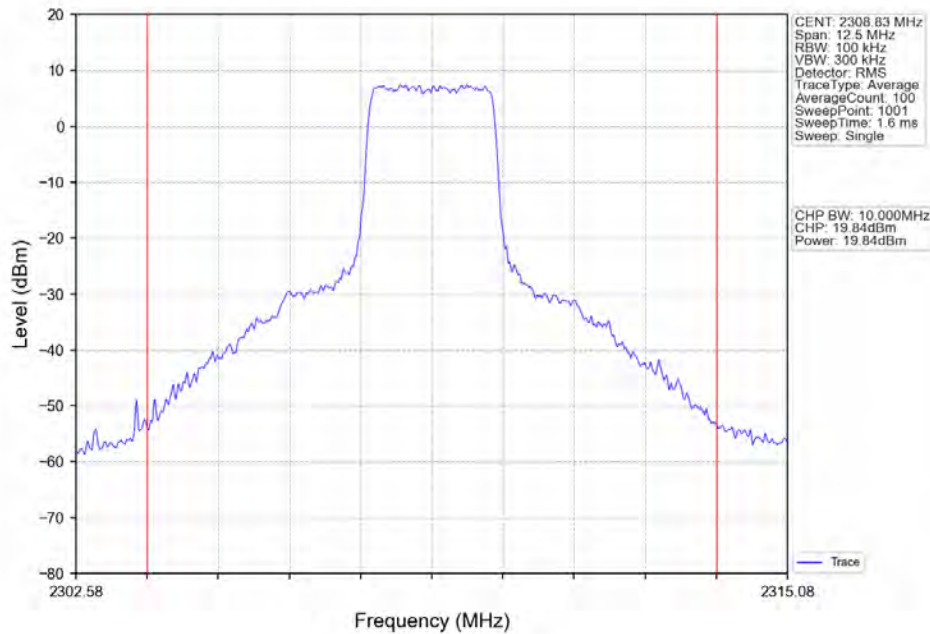
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Report No.: SUCR240400009001

Rev.: 01

Page: 58 of 190

Band30_5MHz_64QAM_MCH_2310MHz_RB_12_0_NTNV



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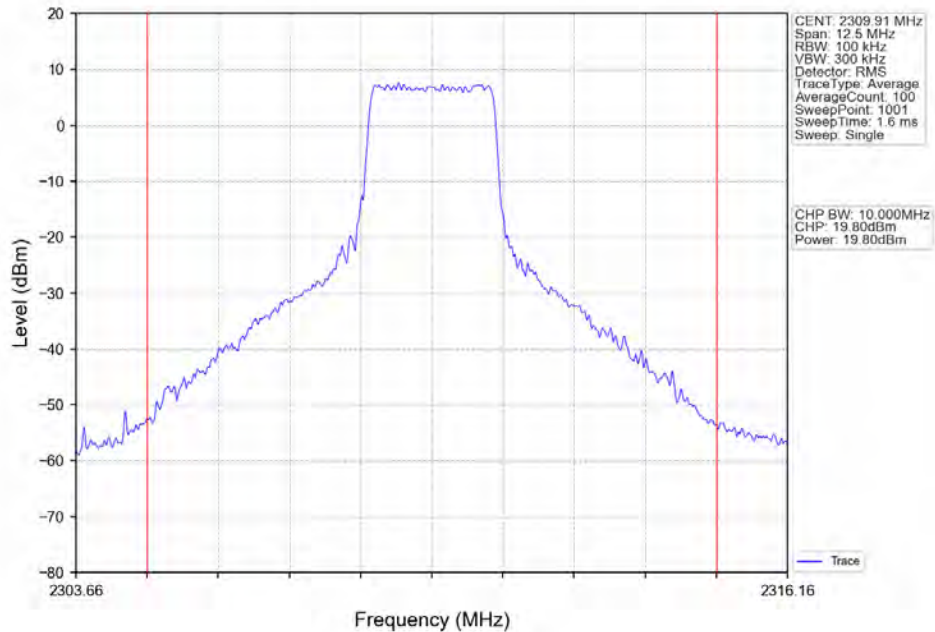
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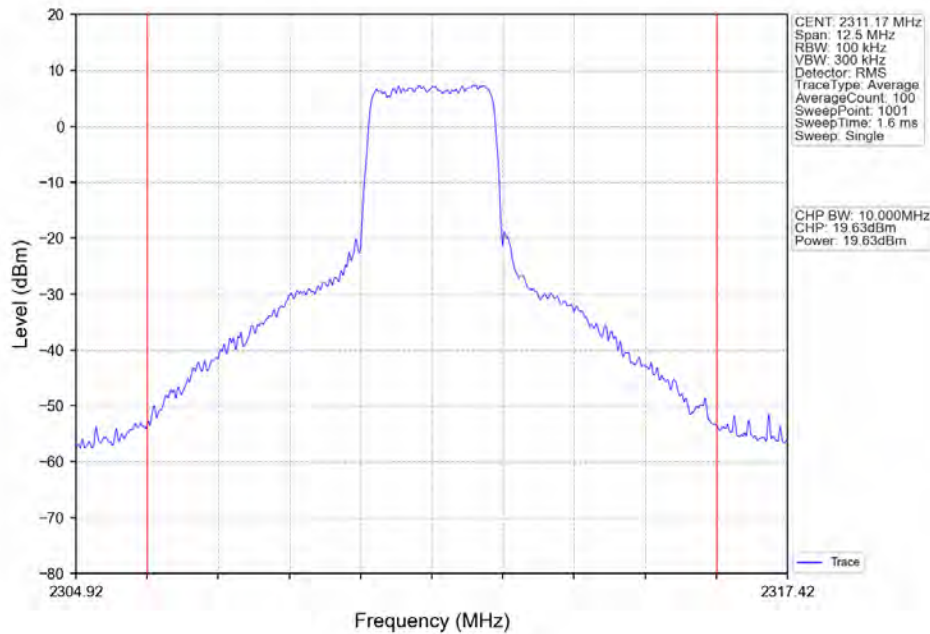
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Report No.: SUCR240400009001

Rev.: 01

Page: 60 of 190

Band30_5MHz_64QAM_MCH_2310MHz_RB_12_13_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



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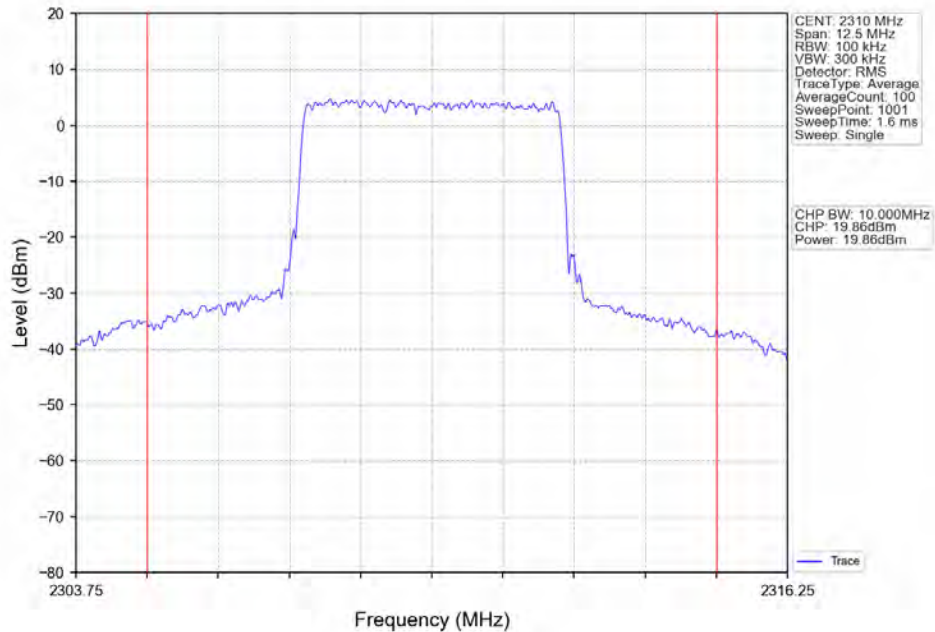
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Report No.: SUCR240400009001

Rev.: 01

Page: 61 of 190



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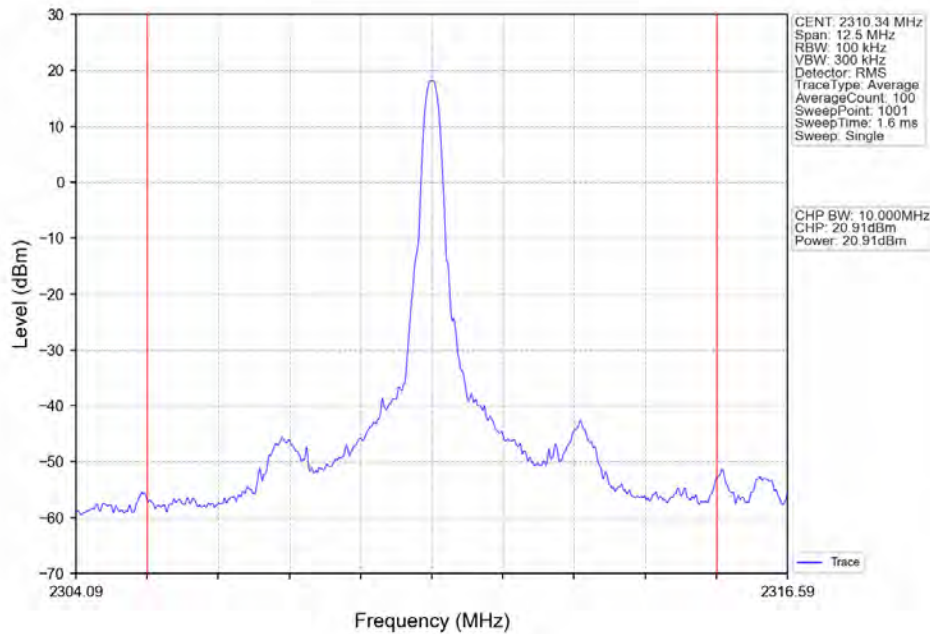
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Report No.: SUCR240400009001

Rev.: 01

Page: 62 of 190

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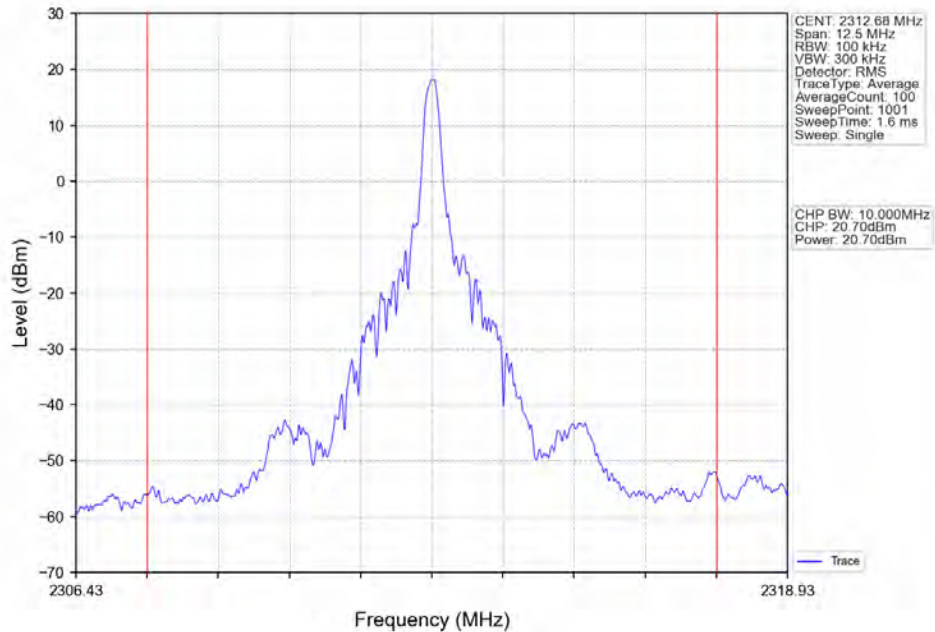
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Report No.: SUCR240400009001

Rev.: 01

Page: 63 of 190



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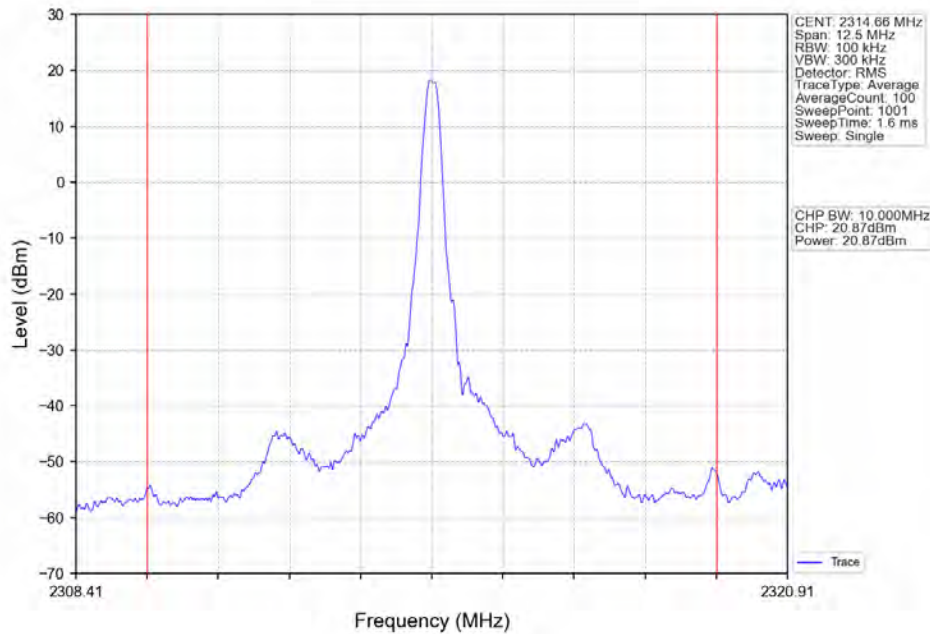
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Report No.: SUCR240400009001

Rev.: 01

Page: 64 of 190

Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_24_NTNV



Band30_5MHz_64QAM_HCH_2312.5MHz_RB_12_0_NTNV



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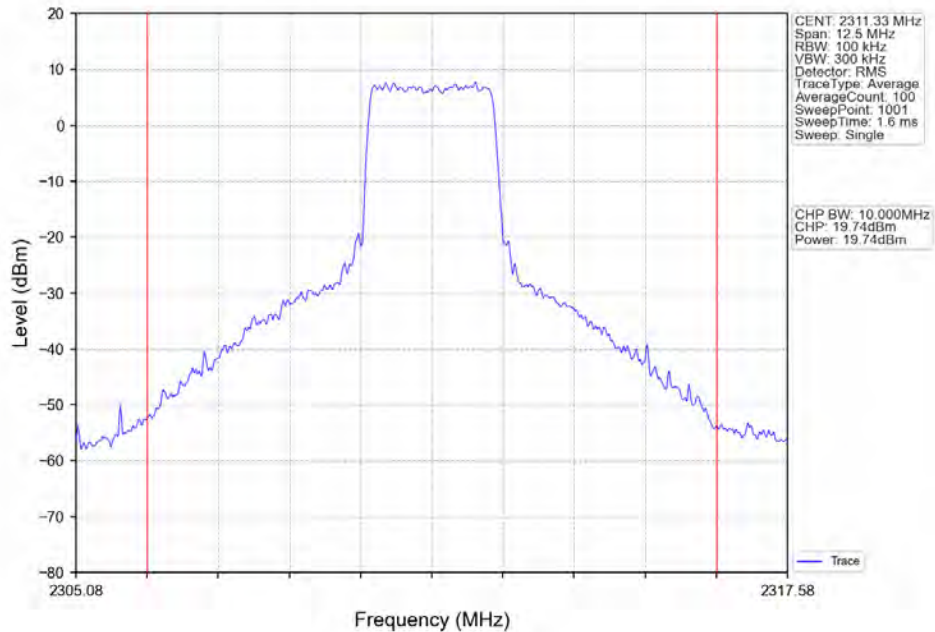
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Rev.: 01

Page: 65 of 190



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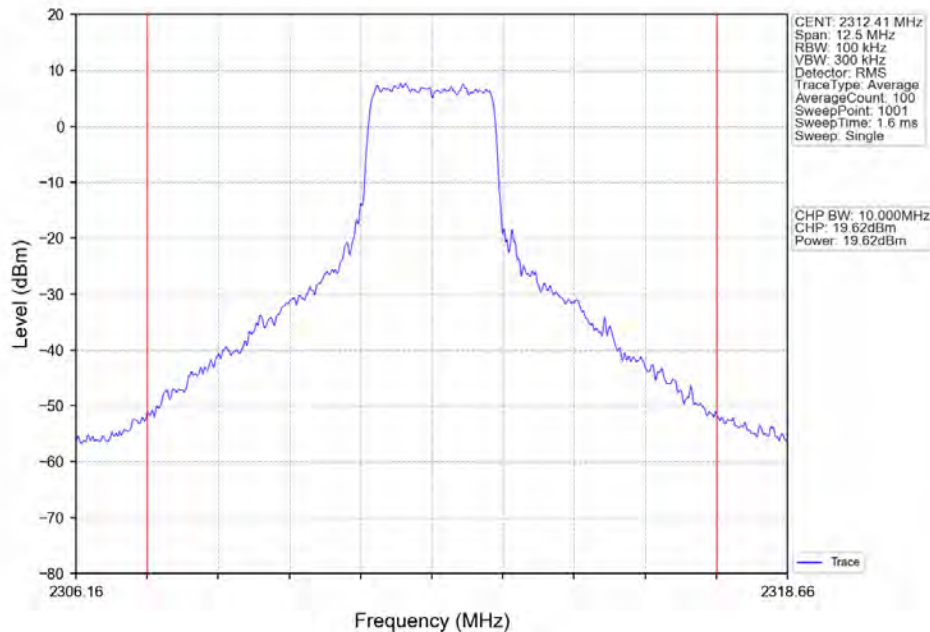
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Report No.: SUCR240400009001

Rev.: 01

Page: 66 of 190

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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_12_13_NTNV



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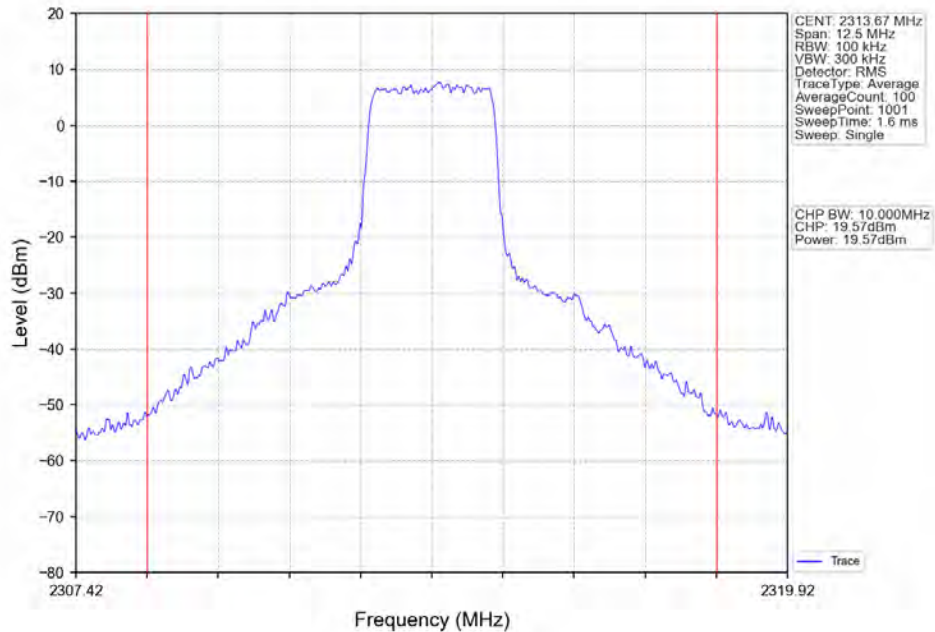
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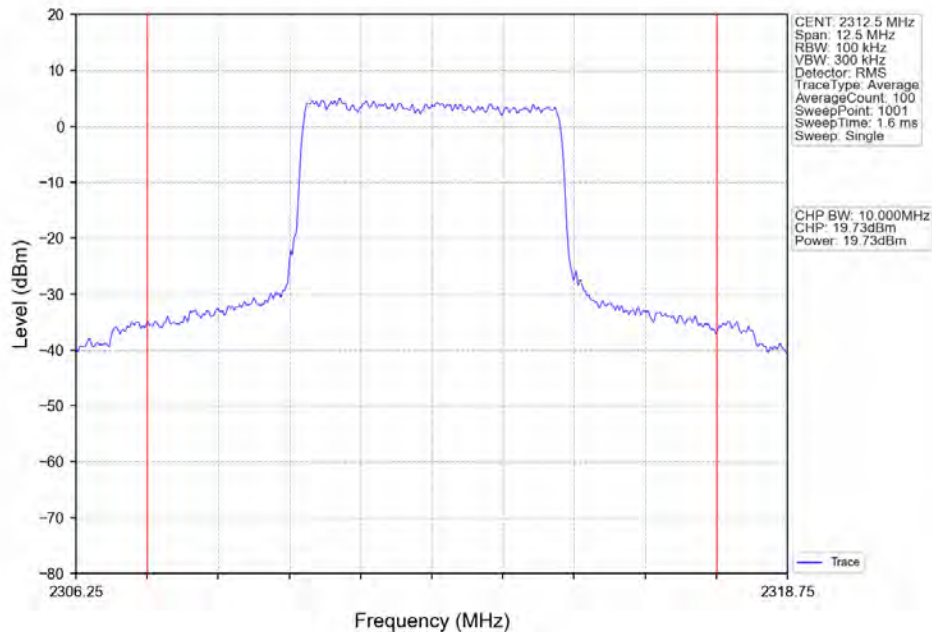
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Report No.: SUCR240400009001

Rev.: 01

Page: 68 of 190

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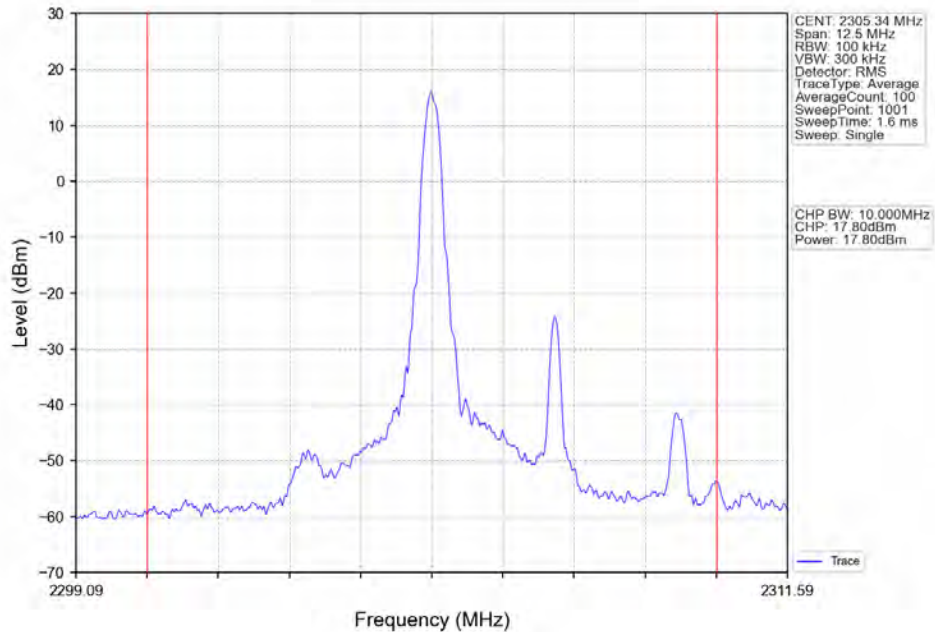
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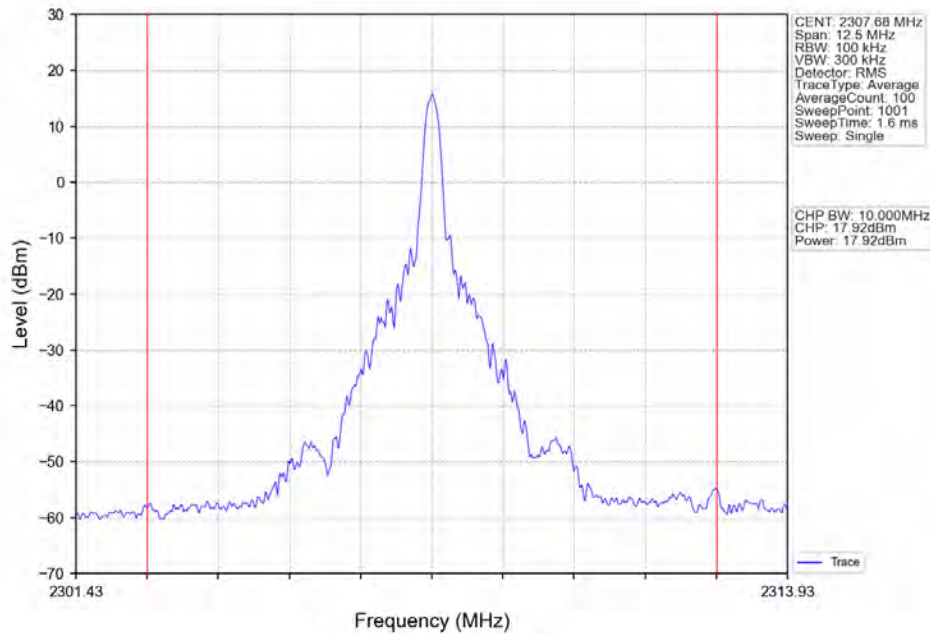
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Report No.: SUCR240400009001

Rev.: 01

Page: 70 of 190

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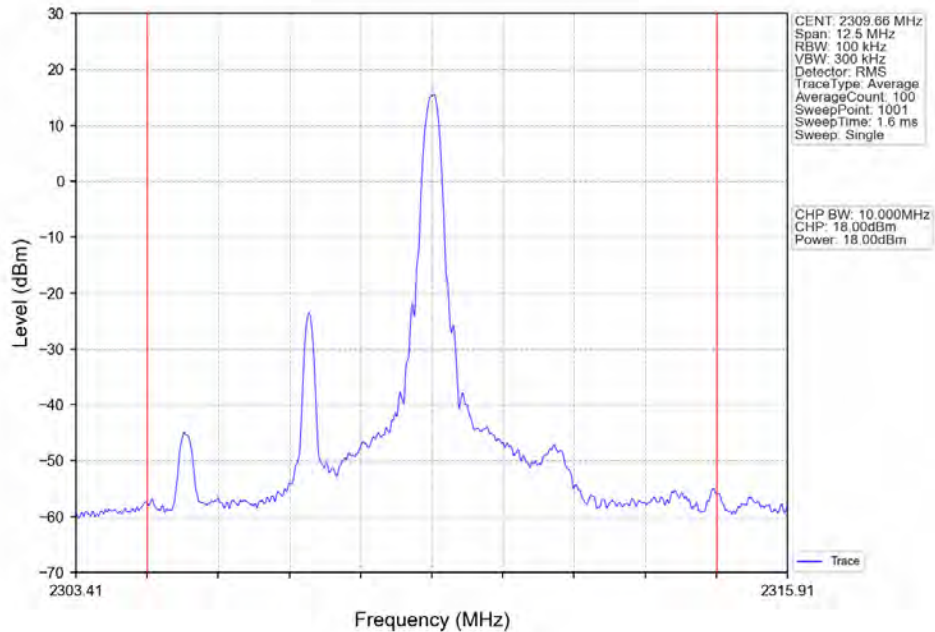
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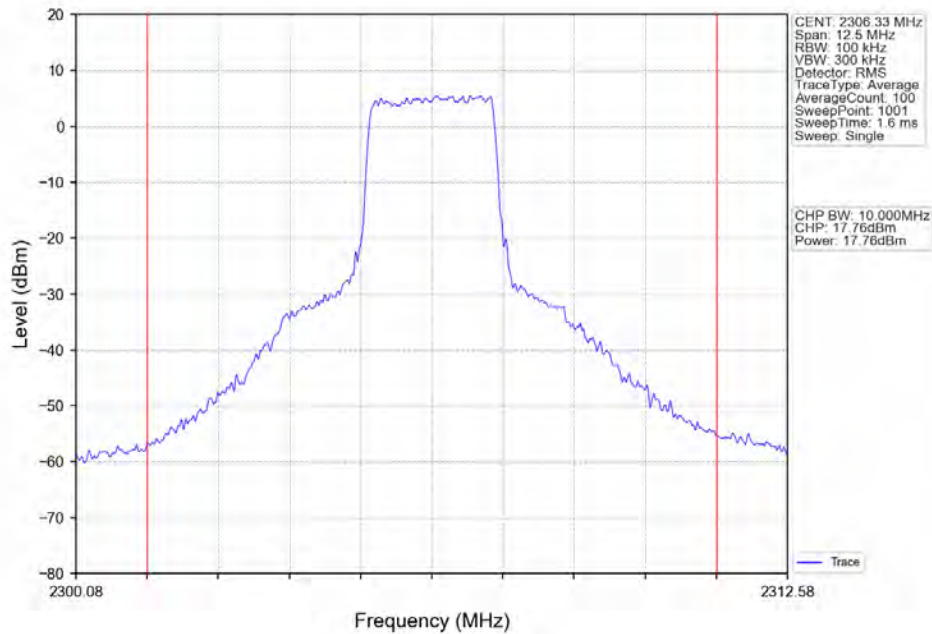
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Report No.: SUCR240400009001

Rev.: 01

Page: 72 of 190

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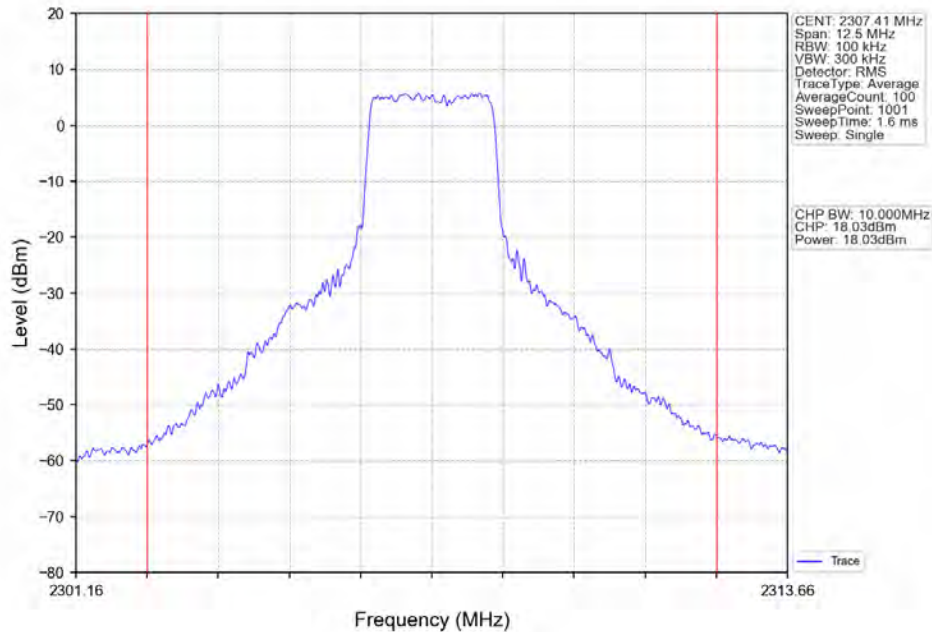
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Report No.: SUCR240400009001

Rev.: 01

Page: 73 of 190



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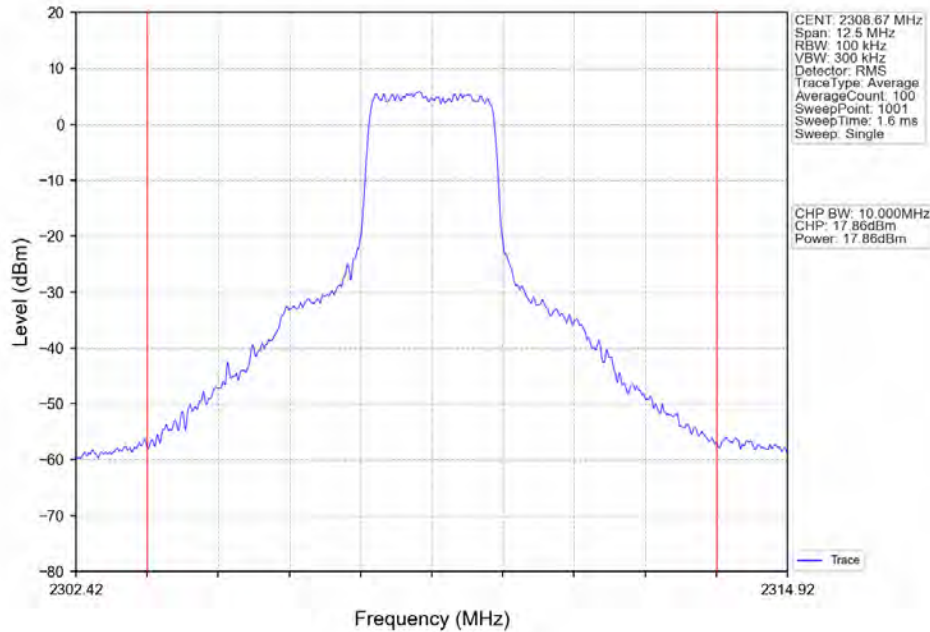
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Report No.: SUCR240400009001

Rev.: 01

Page: 74 of 190

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Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



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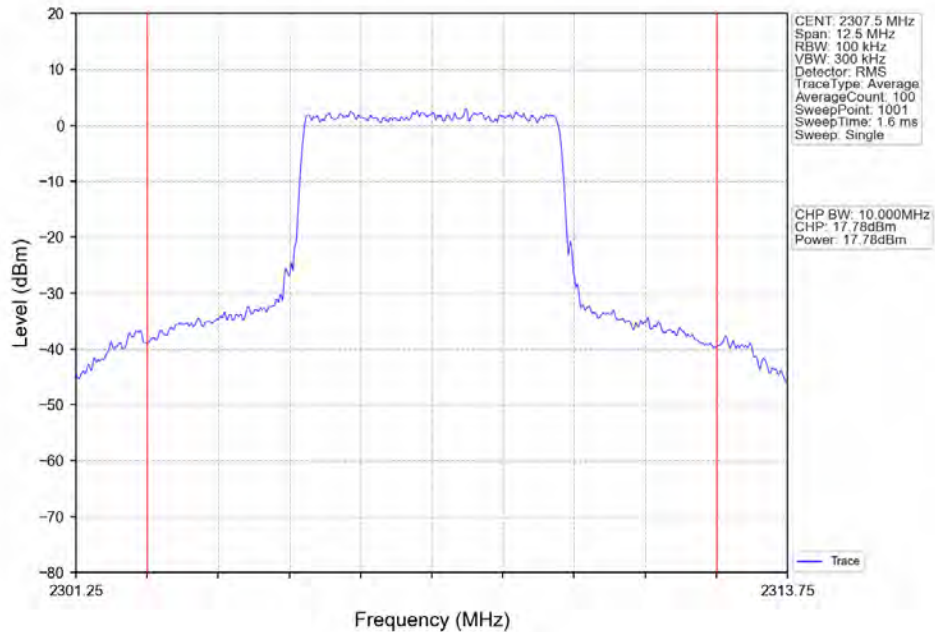
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Report No.: SUCR240400009001

Rev.: 01

Page: 75 of 190



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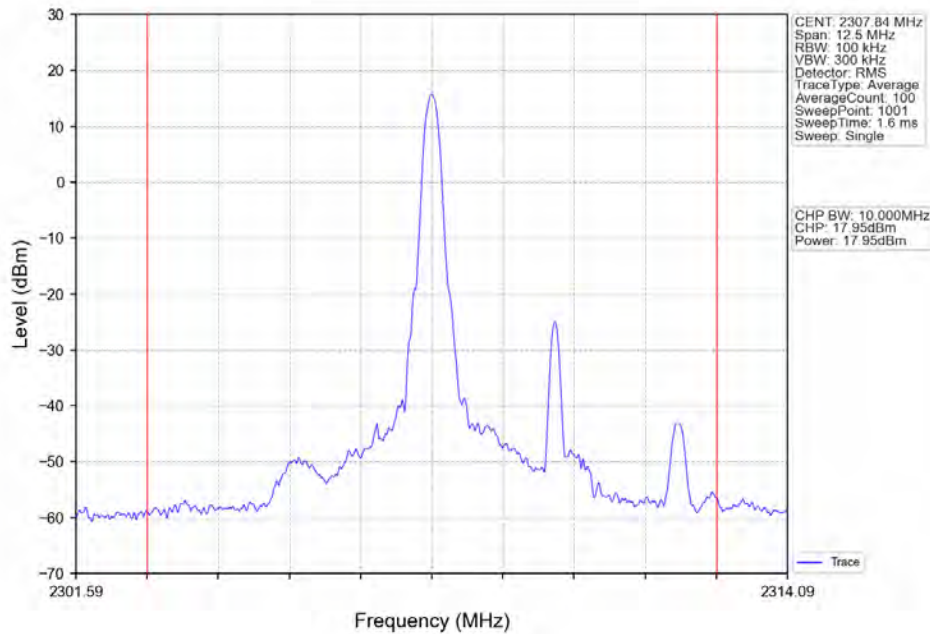
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Report No.: SUCR240400009001

Rev.: 01

Page: 76 of 190

Band30_5MHz_256QAM_MCH_2310MHz_RB_1_0_NTNV



Band30_5MHz_256QAM_MCH_2310MHz_RB_1_13_NTNV



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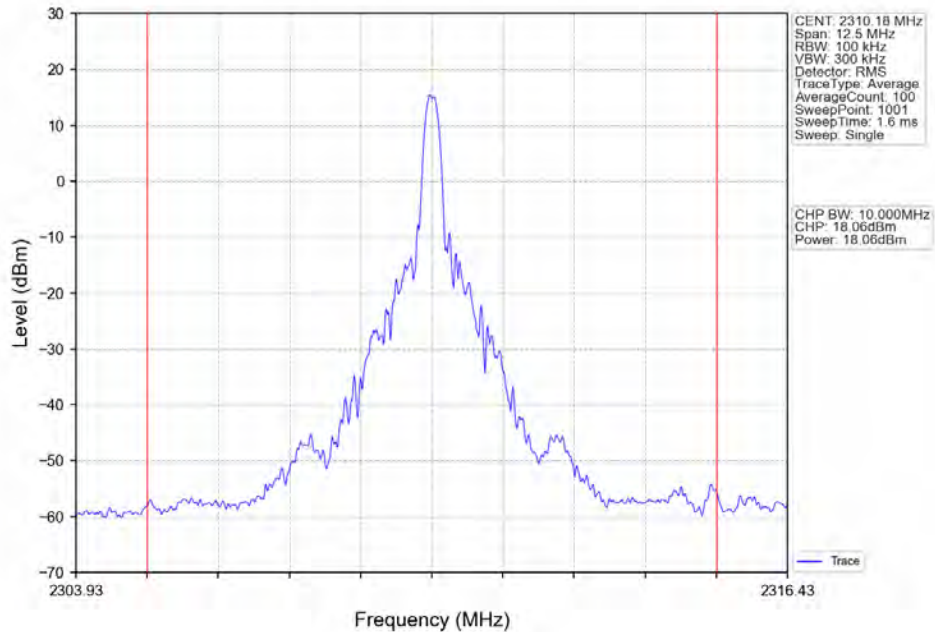
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Page: 77 of 190



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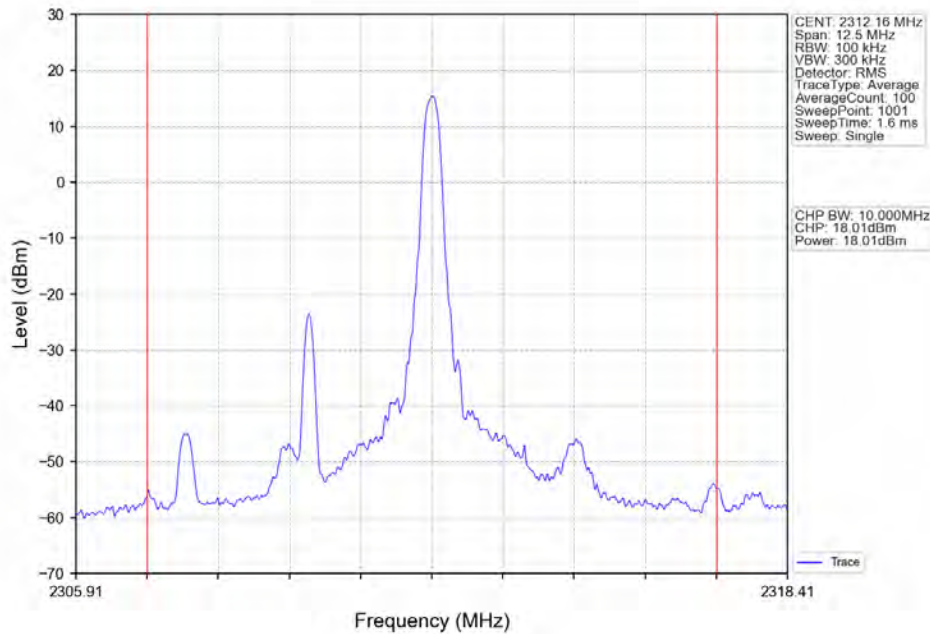
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Report No.: SUCR240400009001

Rev.: 01

Page: 78 of 190

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Band30_5MHz_256QAM_MCH_2310MHz_RB_12_0_NTNV



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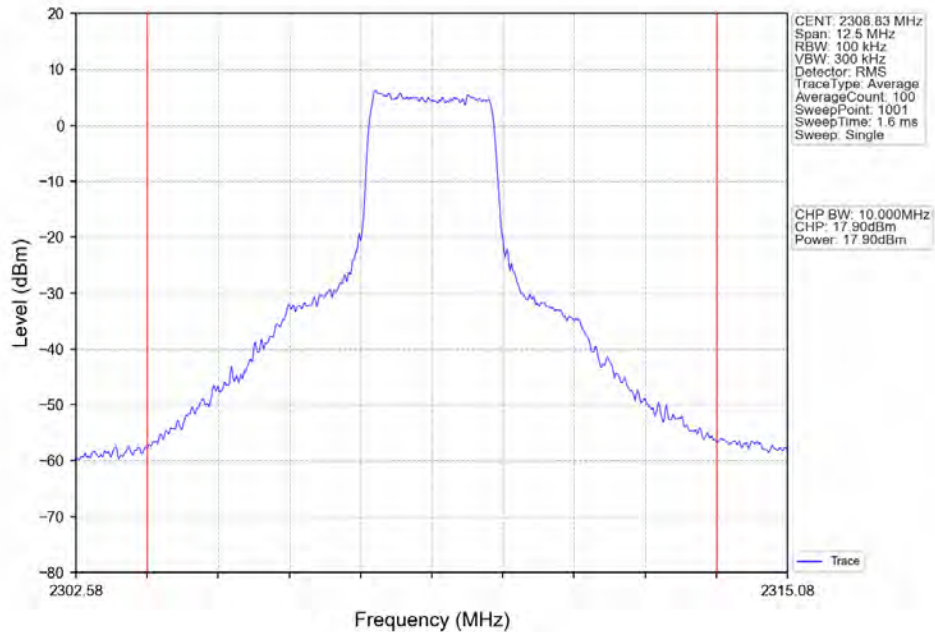
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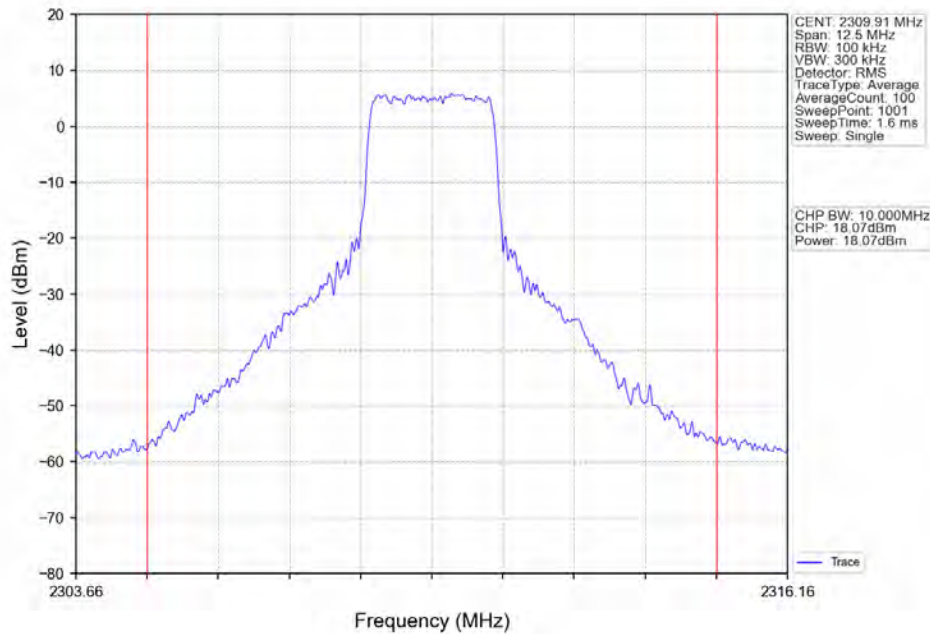
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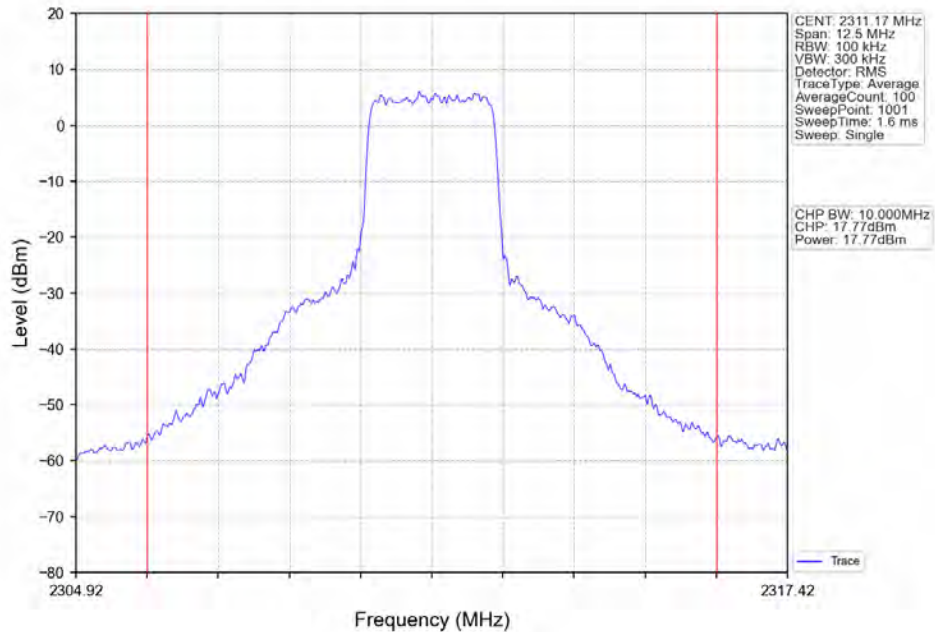
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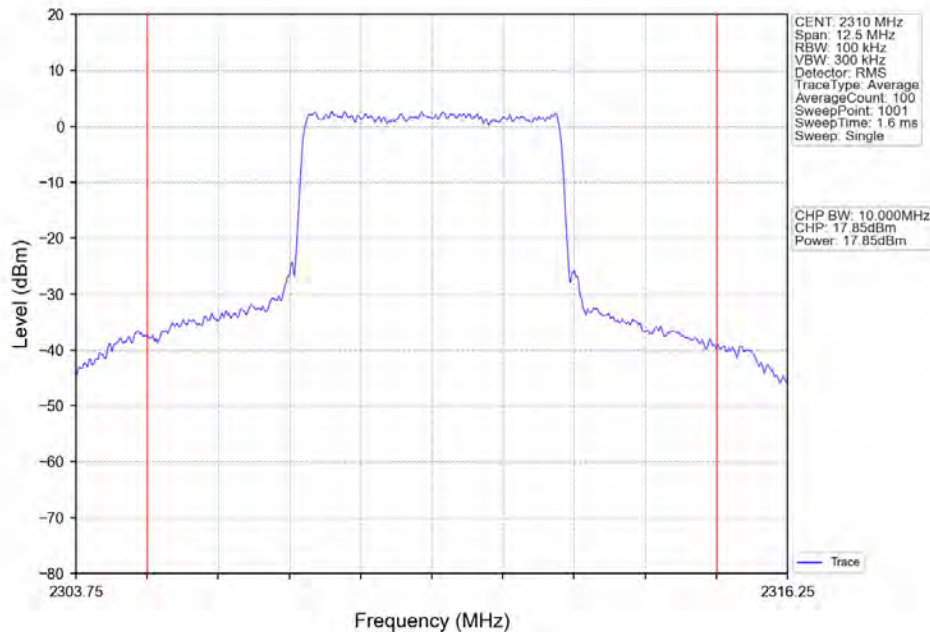
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Rev.: 01

Page: 82 of 190

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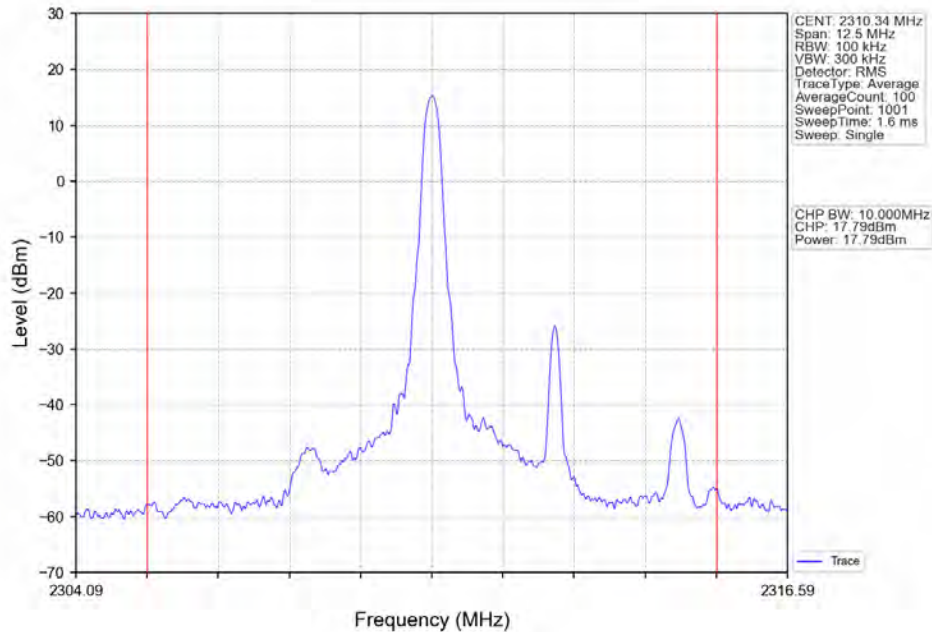
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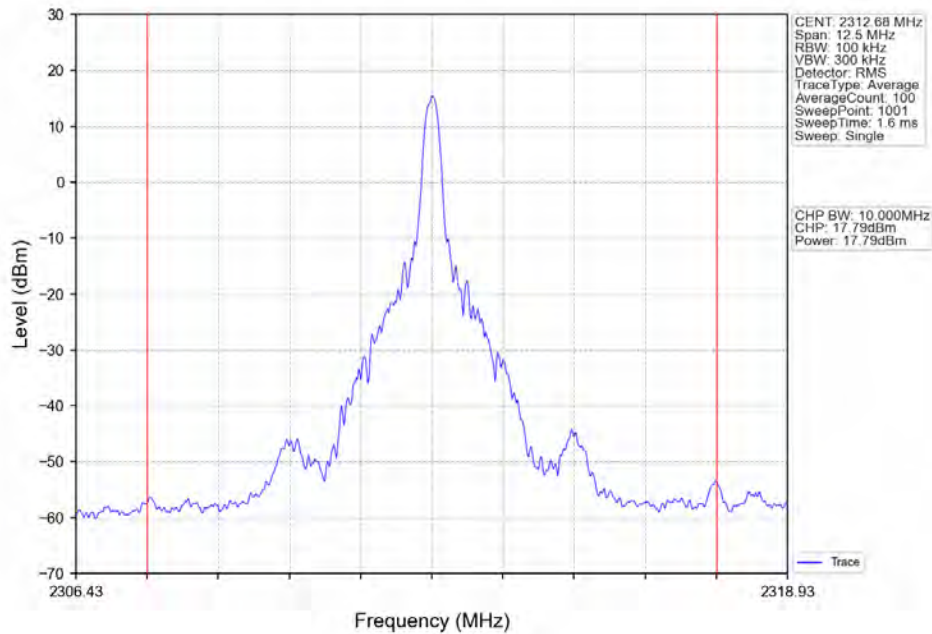
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Report No.: SUCR240400009001

Rev.: 01

Page: 84 of 190

Band30_5MHz_256QAM_HCH_2312.5MHz_RB_1_13_NTNV



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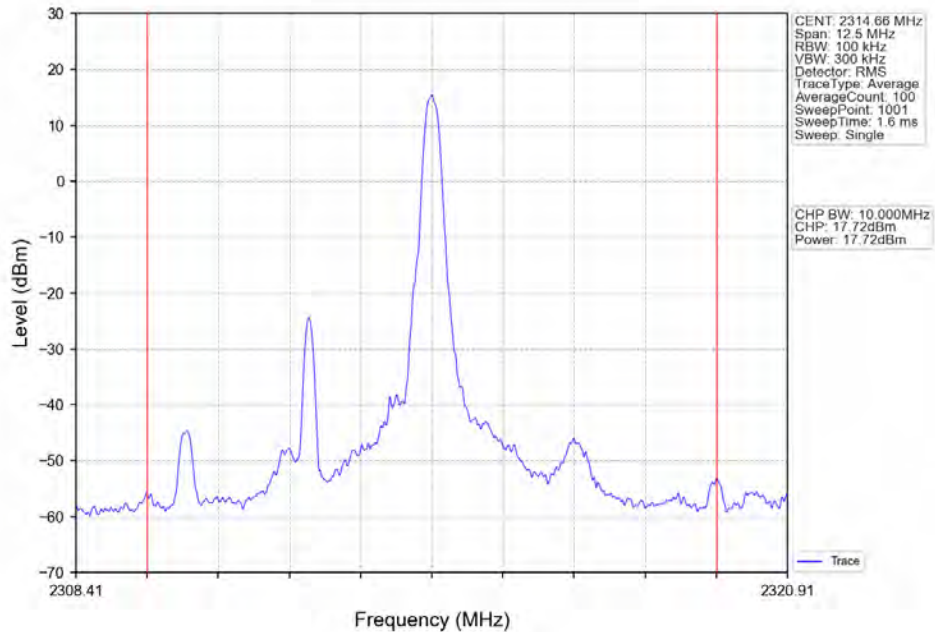
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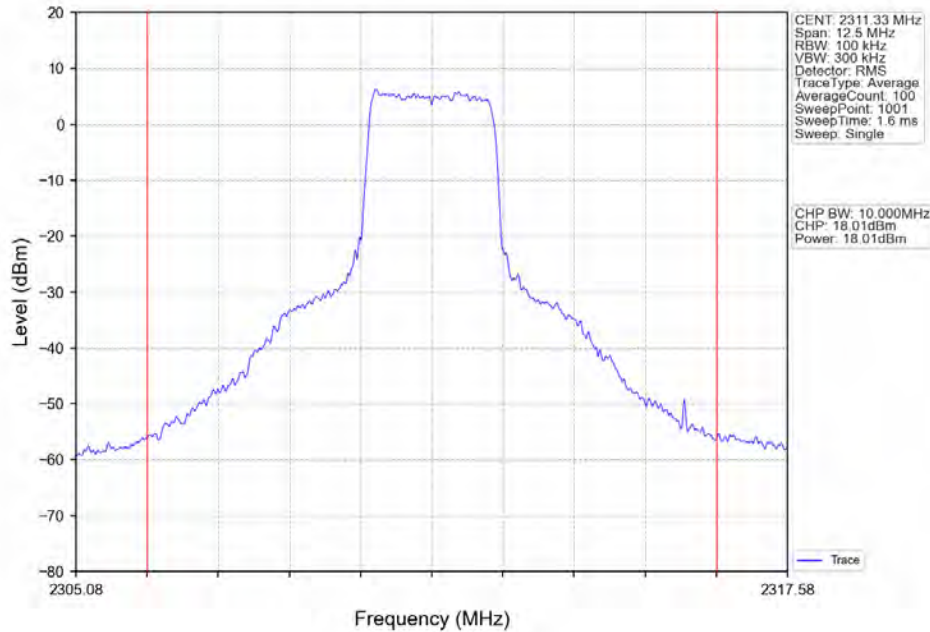
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Report No.: SUCR240400009001

Rev.: 01

Page: 86 of 190

Band30_5MHz_256QAM_HCH_2312.5MHz_RB_12_0_NTNV



Band30_5MHz_256QAM_HCH_2312.5MHz_RB_12_6_NTNV



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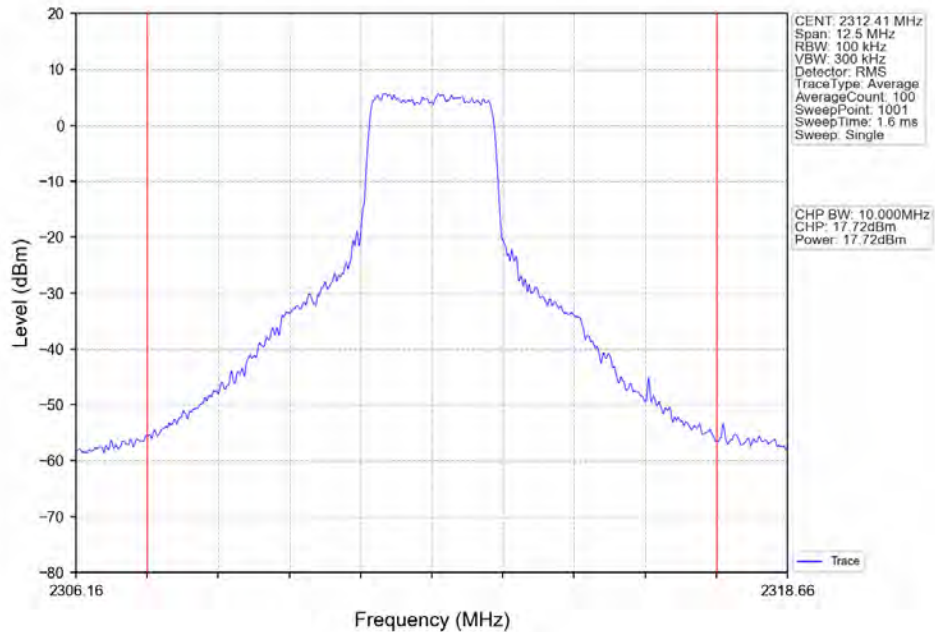
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Report No.: SUCR240400009001

Rev.: 01

Page: 87 of 190



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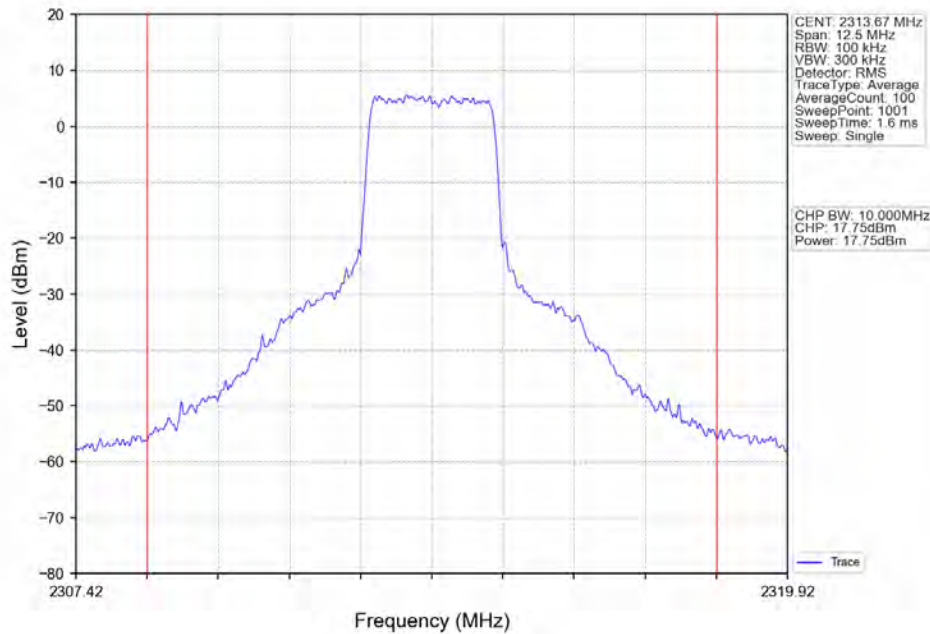
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Report No.: SUCR240400009001

Rev.: 01

Page: 88 of 190

Band30_5MHz_256QAM_HCH_2312.5MHz_RB_12_13_NTNV



Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



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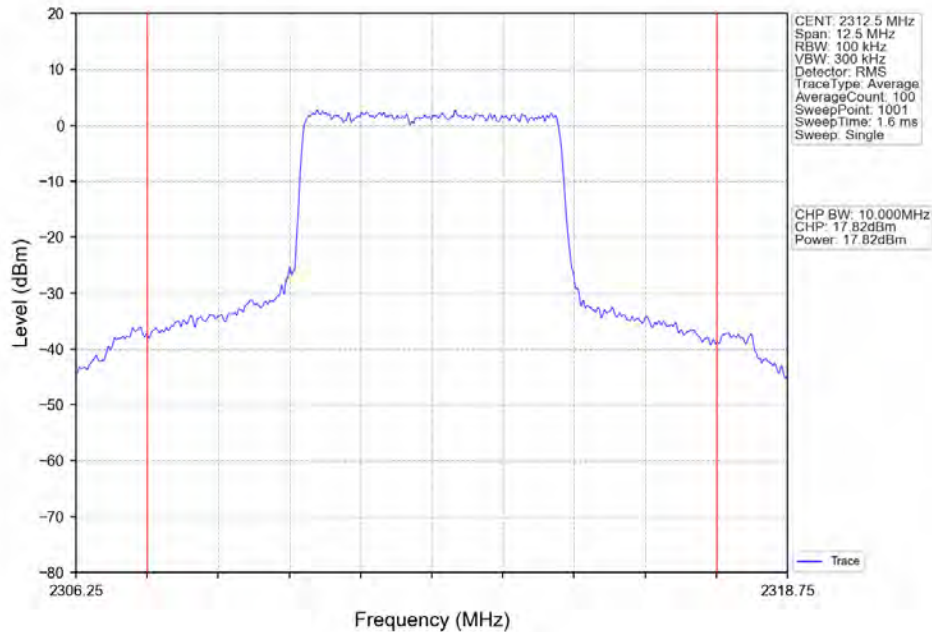
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Report No.: SUCR240400009001

Rev.: 01

Page: 90 of 190

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	-5.70	16.43	<=23.98	Pass
			25	22.40	-5.70	16.70	<=23.98	Pass
			49	22.44	-5.70	16.74	<=23.98	Pass
		25	0	21.52	-5.70	15.82	<=23.98	Pass
			13	21.44	-5.70	15.74	<=23.98	Pass
			25	21.51	-5.70	15.81	<=23.98	Pass
		50	0	21.46	-5.70	15.76	<=23.98	Pass
			0	21.64	-5.70	15.94	<=23.98	Pass
			25	21.88	-5.70	16.18	<=23.98	Pass
16QAM	2310	1	0	21.64	-5.70	15.94	<=23.98	Pass
			25	21.88	-5.70	16.18	<=23.98	Pass
			49	21.60	-5.70	15.90	<=23.98	Pass
		25	0	20.50	-5.70	14.80	<=23.98	Pass
			13	20.56	-5.70	14.86	<=23.98	Pass
			25	20.47	-5.70	14.77	<=23.98	Pass
		50	0	20.52	-5.70	14.82	<=23.98	Pass
			0	20.62	-5.70	14.92	<=23.98	Pass
			25	20.69	-5.70	14.99	<=23.98	Pass
64QAM	2310	1	0	20.62	-5.70	14.92	<=23.98	Pass
			25	20.69	-5.70	14.99	<=23.98	Pass
			49	20.78	-5.70	15.08	<=23.98	Pass
		25	0	18.44	-5.70	12.74	<=23.98	Pass
			13	19.30	-5.70	13.60	<=23.98	Pass
			25	19.53	-5.70	13.83	<=23.98	Pass
		50	0	18.41	-5.70	12.71	<=23.98	Pass
			0	17.14	-5.70	11.44	<=23.98	Pass
			25	16.39	-5.70	10.69	<=23.98	Pass
256QAM	2310	1	0	17.14	-5.70	11.44	<=23.98	Pass
			25	16.39	-5.70	10.69	<=23.98	Pass
			49	17.51	-5.70	11.81	<=23.98	Pass
		25	0	17.35	-5.70	11.65	<=23.98	Pass
			13	17.54	-5.70	11.84	<=23.98	Pass
			25	17.14	-5.70	11.44	<=23.98	Pass
		50	0	15.80	-5.70	10.10	<=23.98	Pass
			0	15.80	-5.70	10.10	<=23.98	Pass
			25	15.80	-5.70	10.10	<=23.98	Pass

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



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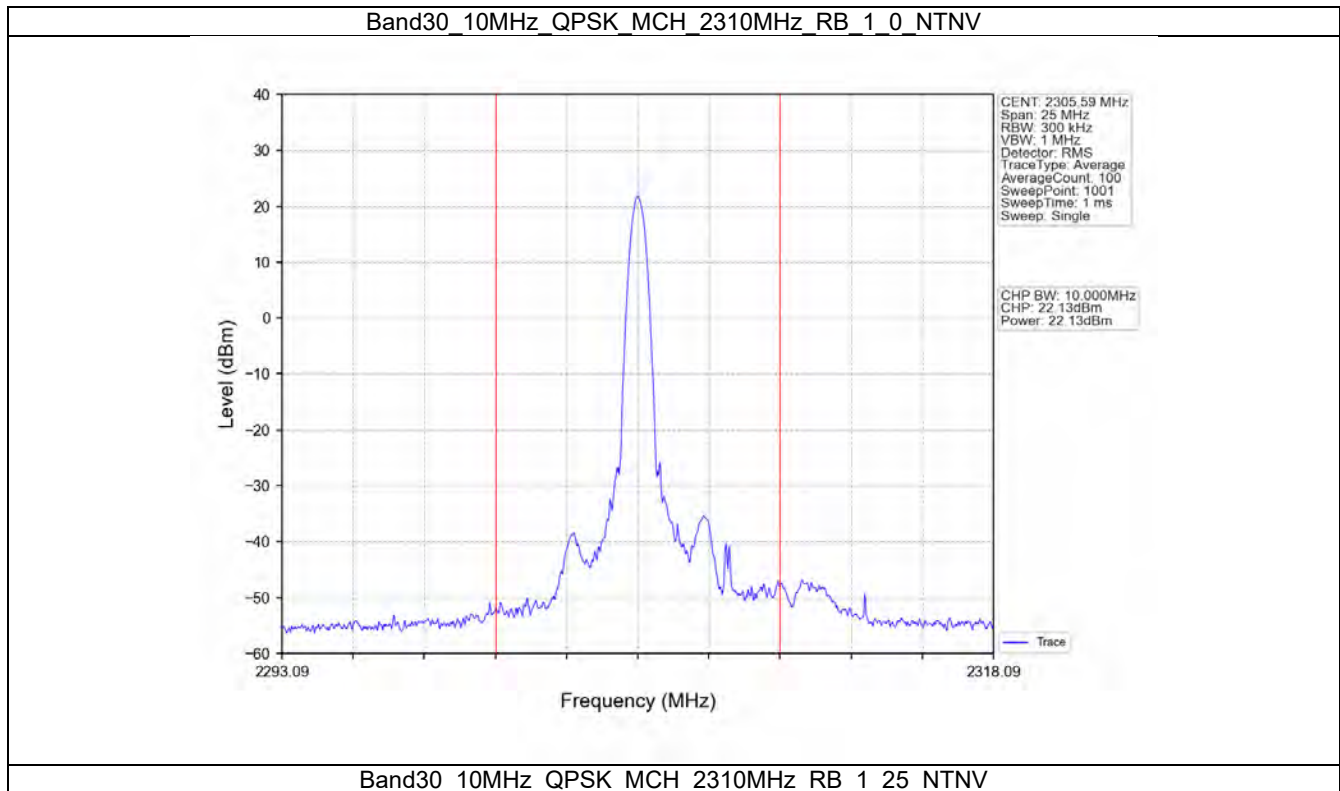
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Rev.: 01

Page: 91 of 190

1.4.2 Test Graph



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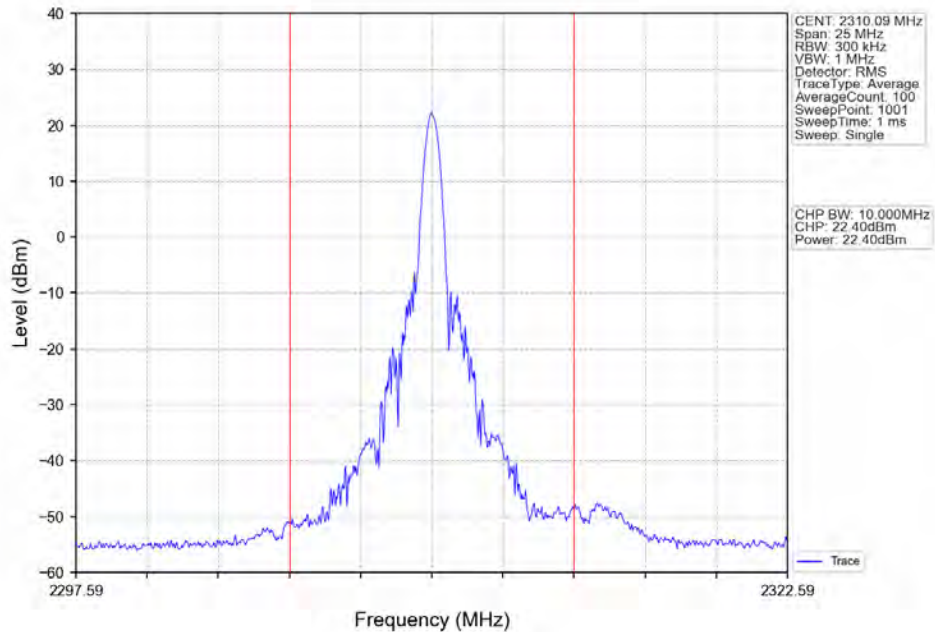
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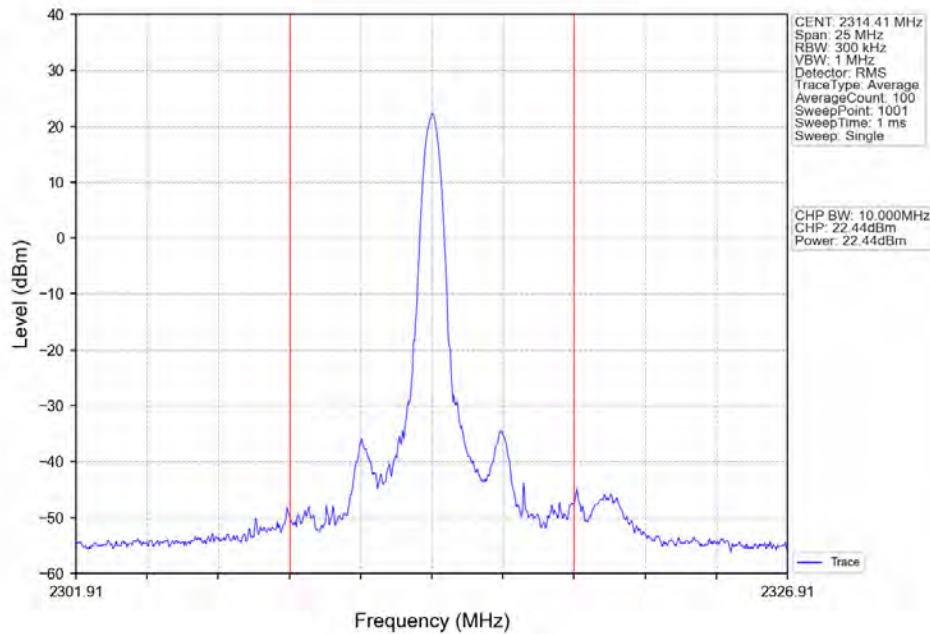
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Band30_10MHz_QPSK_MCH_2310MHz_RB_1_49_NTNV



Band30_10MHz_QPSK_MCH_2310MHz_RB_25_0_NTNV



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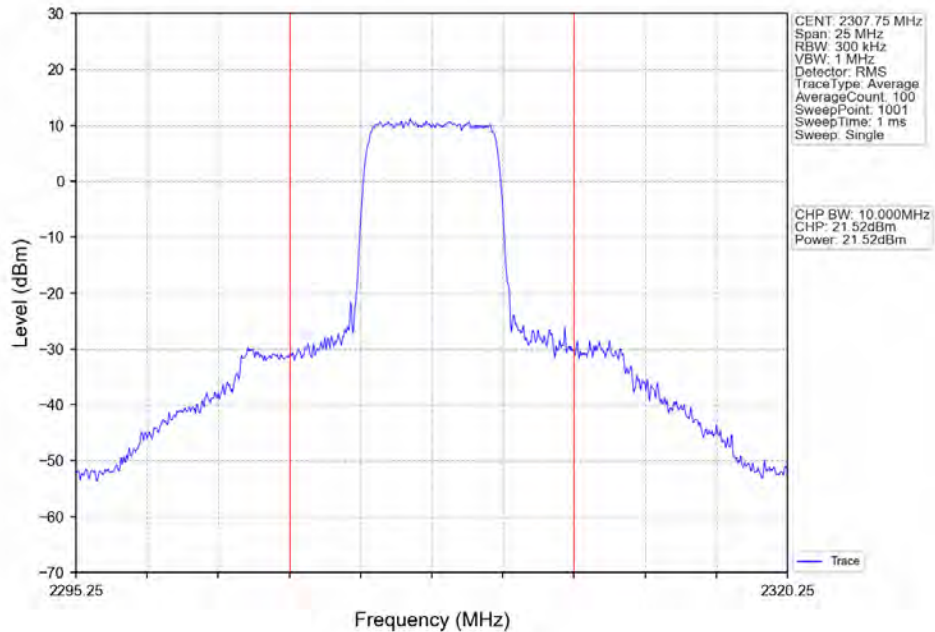
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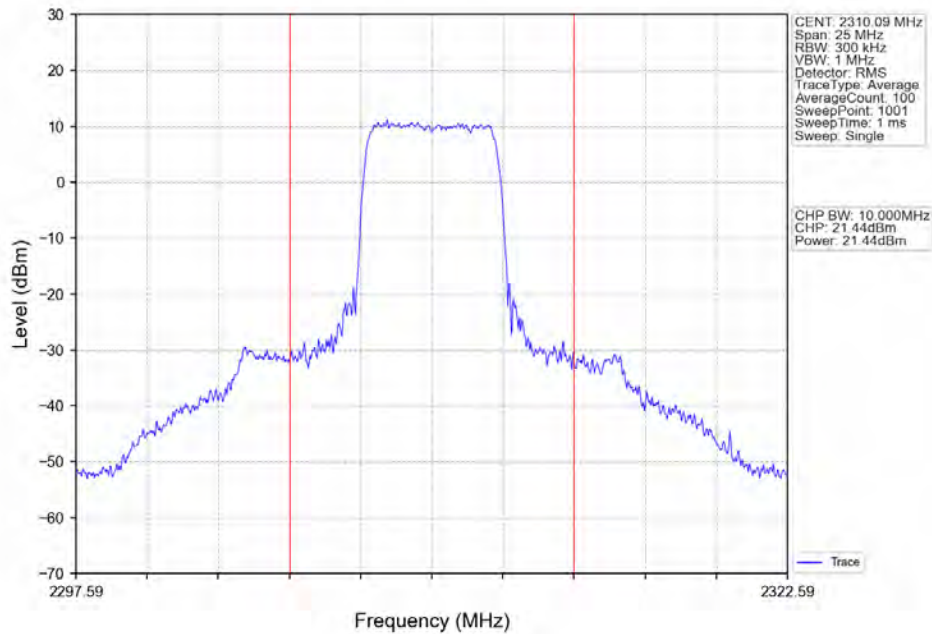
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Report No.: SUCR240400009001

Rev.: 01

Page: 95 of 190

Band30 10MHz QPSK MCH 2310MHz RB 25 13 NTN



Band30 10MHz QPSK MCH 2310MHz RB 25 25 NTN



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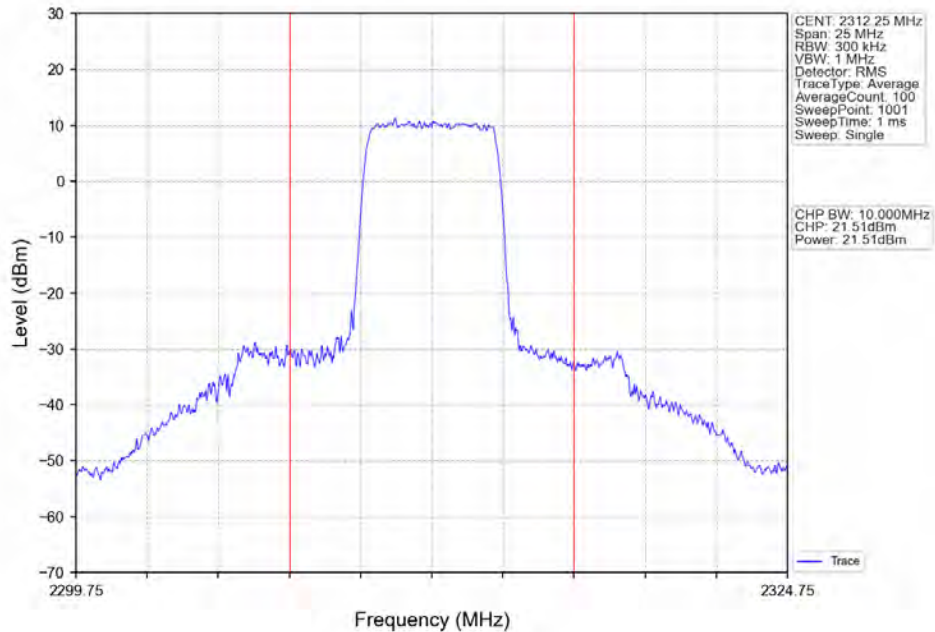
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Rev.: 01

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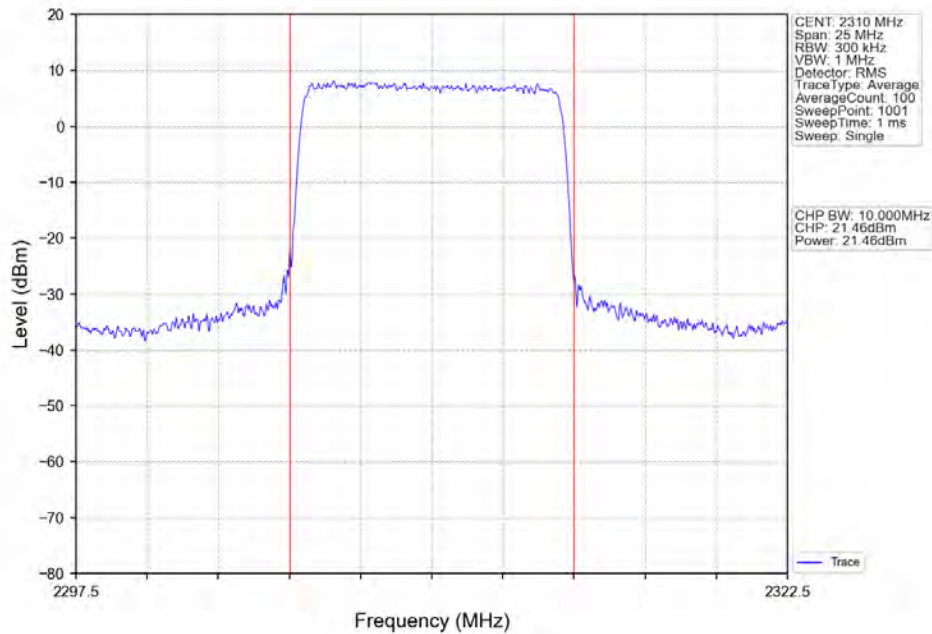
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Report No.: SUCR240400009001

Rev.: 01

Page: 97 of 190

Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



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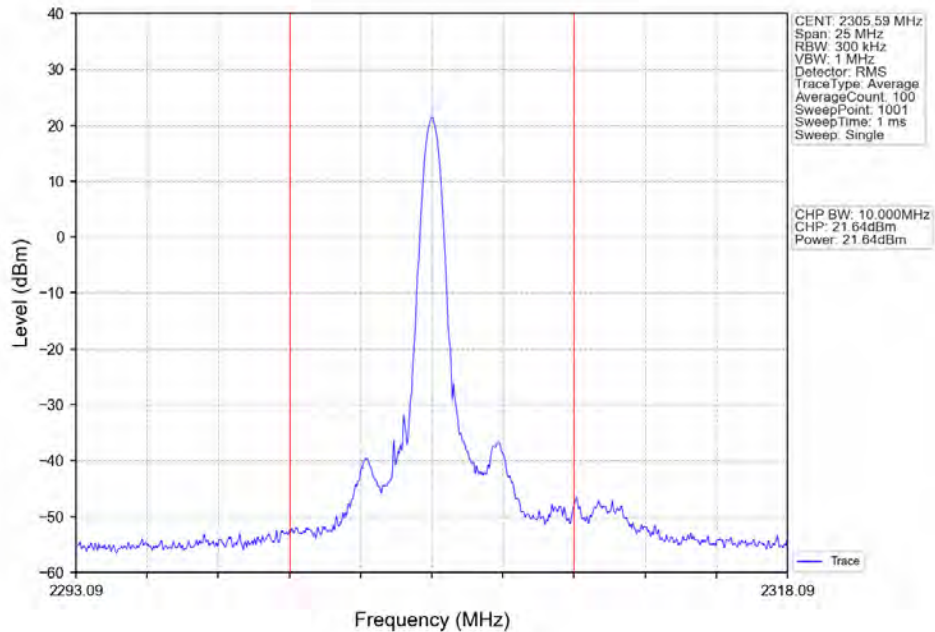
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Report No.: SUCR240400009001

Rev.: 01

Page: 98 of 190



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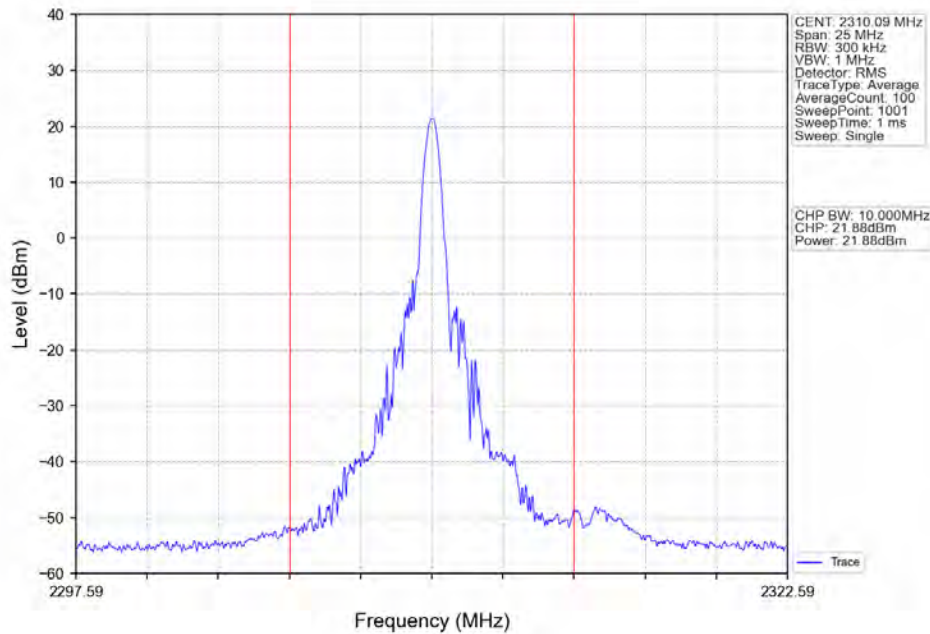
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Report No.: SUCR240400009001

Rev.: 01

Page: 99 of 190

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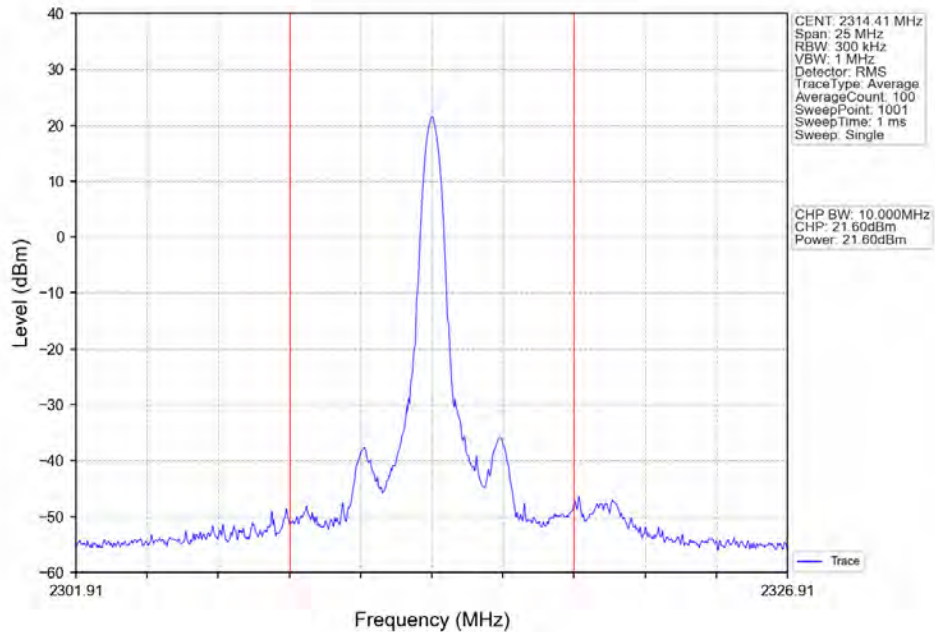
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Report No.: SUCR240400009001

Rev.: 01

Page: 100 of 190



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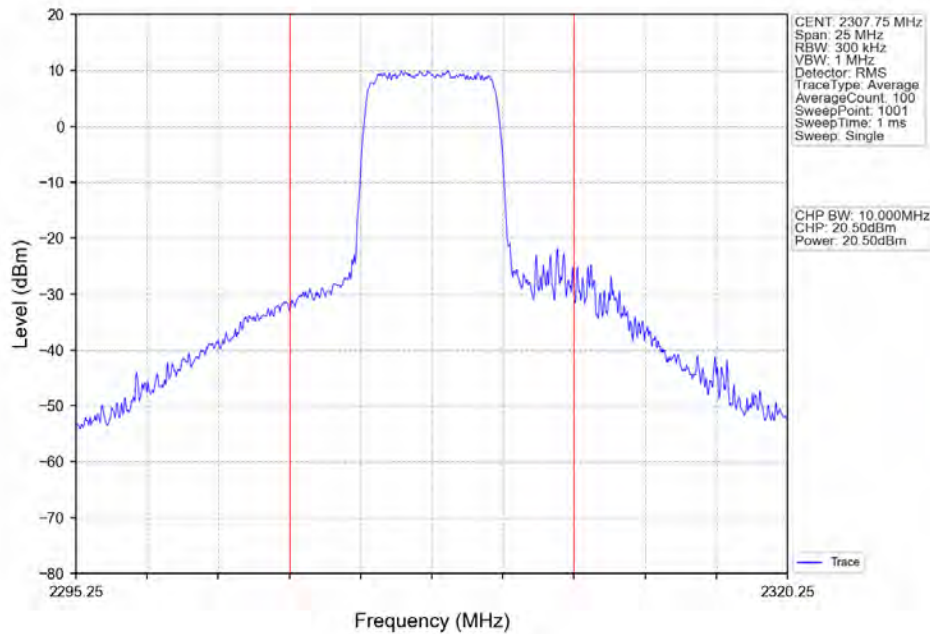
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Rev.: 01

Page: 101 of 190

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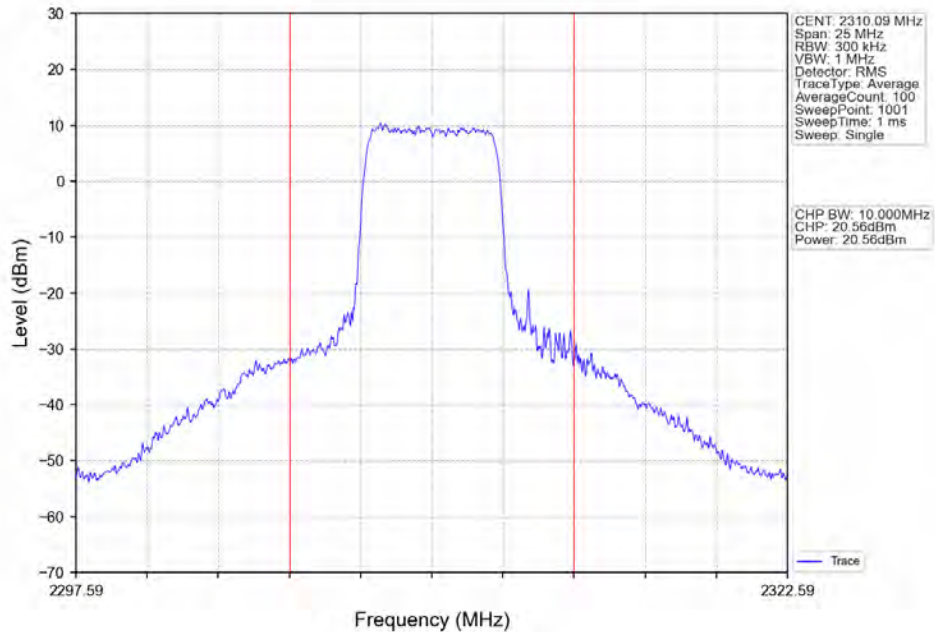
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Page: 102 of 190



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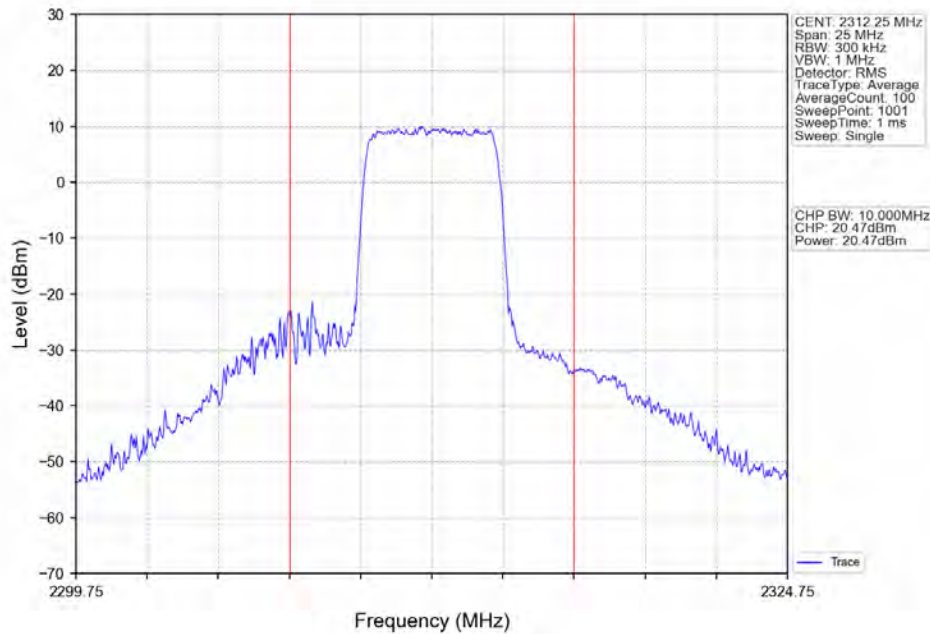
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Report No.: SUCR240400009001

Rev.: 01

Page: 103 of 190

Band30_10MHz_16QAM_MCH_2310MHz_RB_25_25_NTNV



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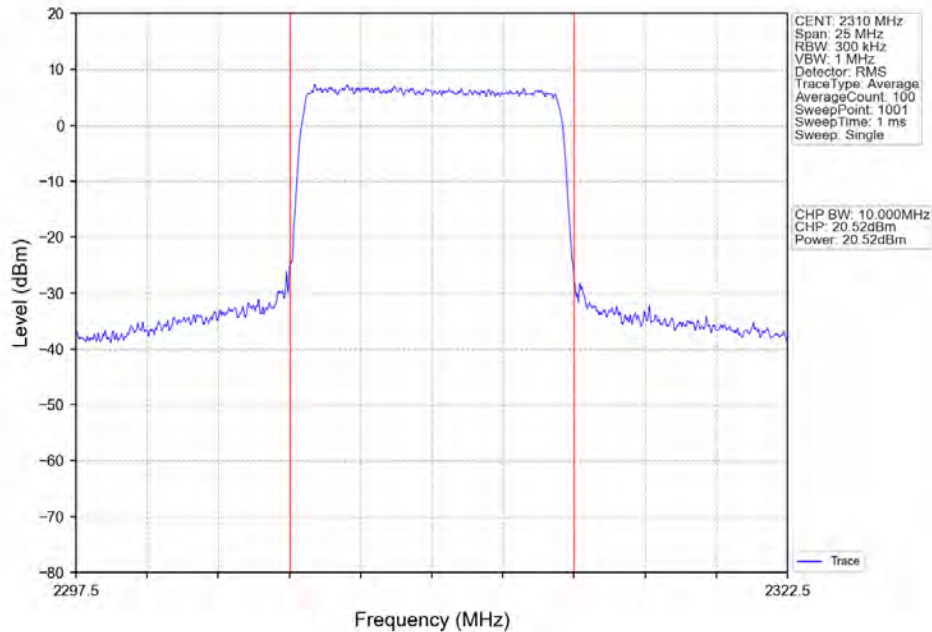
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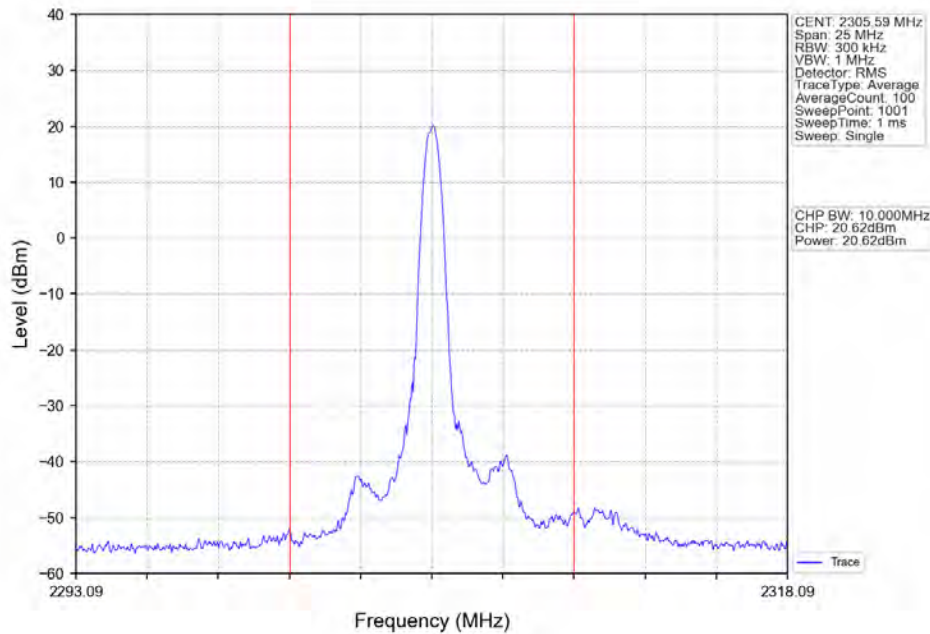
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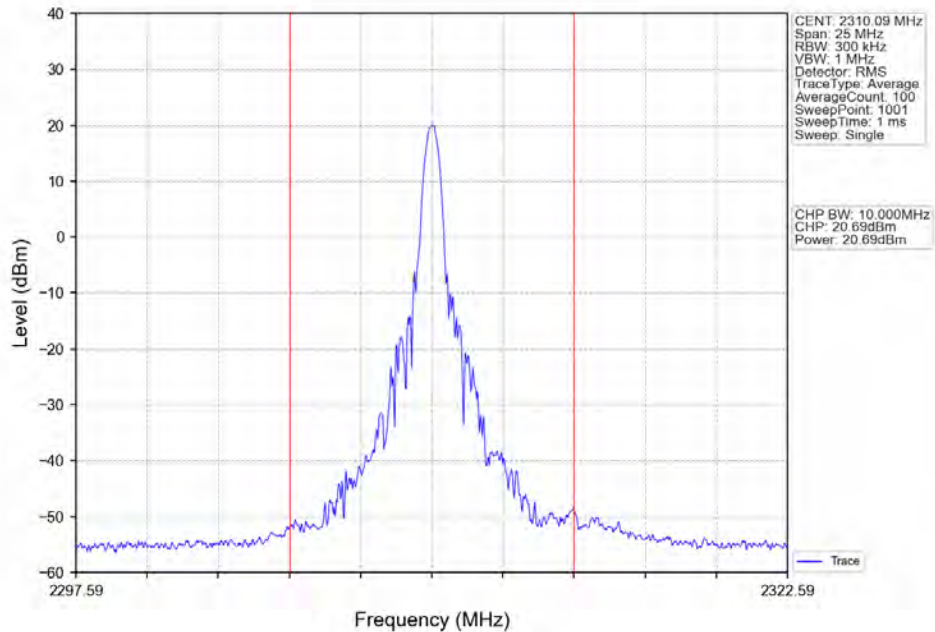
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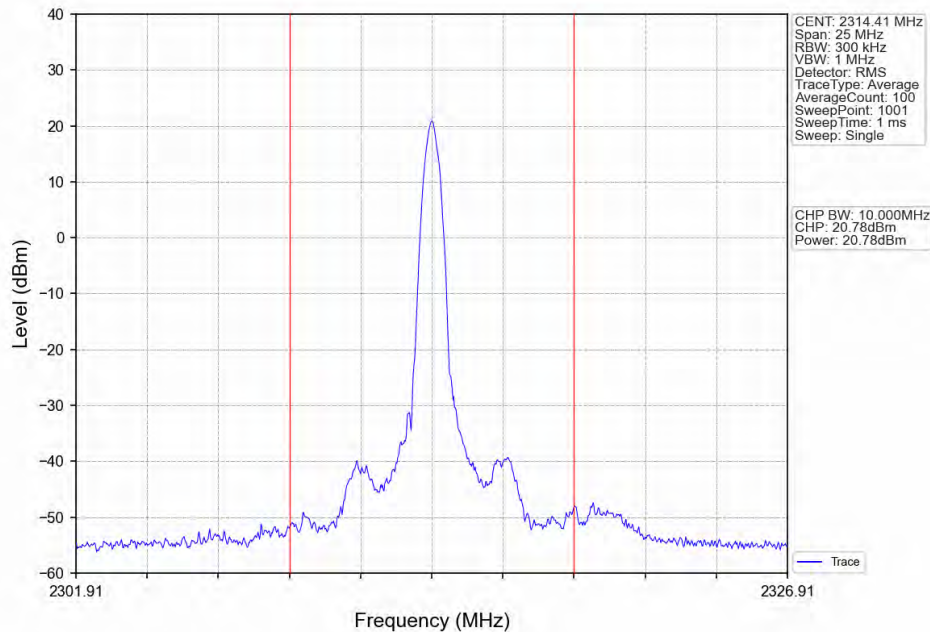
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Report No.: SUCR240400009001

Rev.: 01

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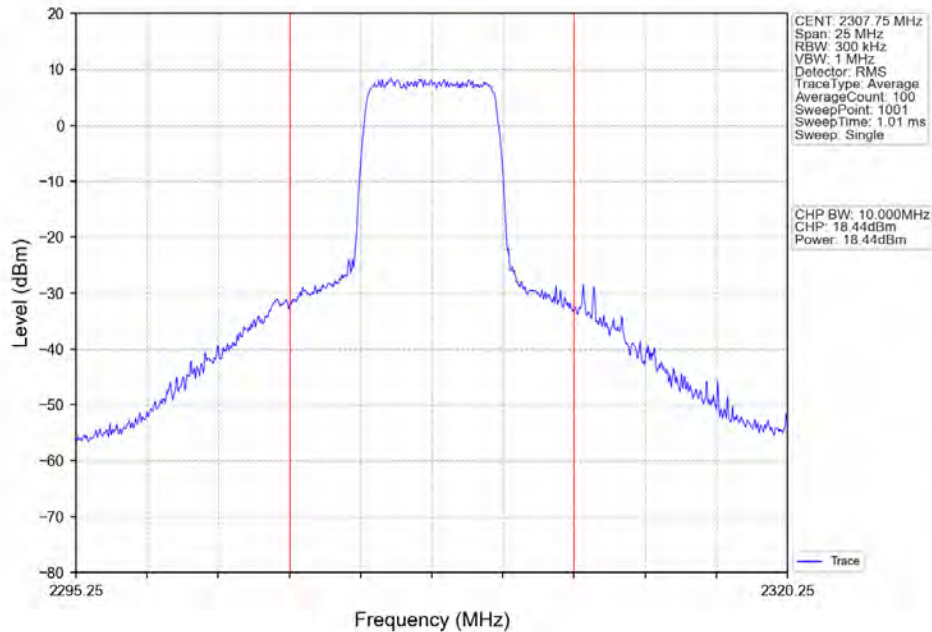
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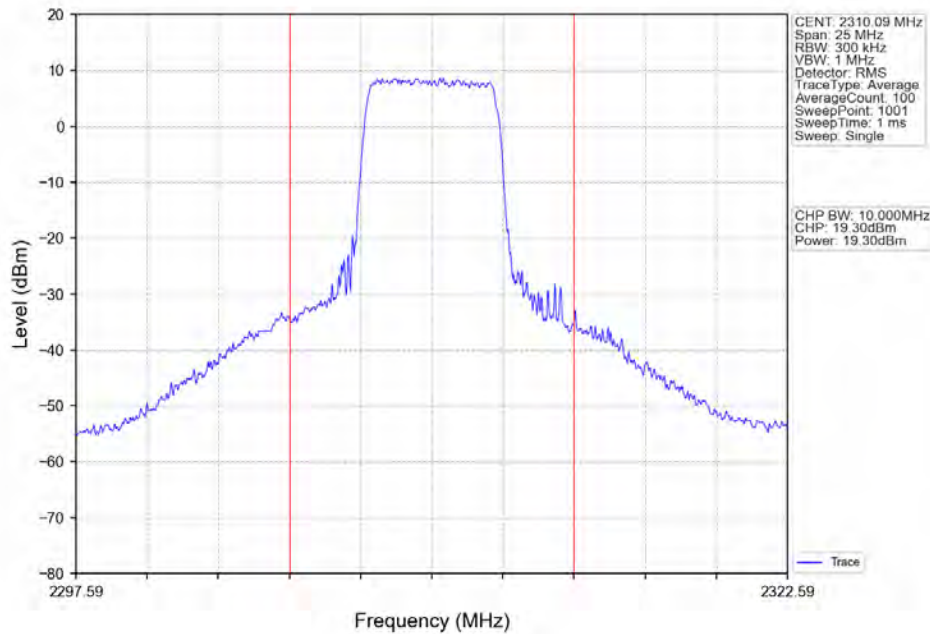
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Report No.: SUCR240400009001

Rev.: 01

Page: 109 of 190

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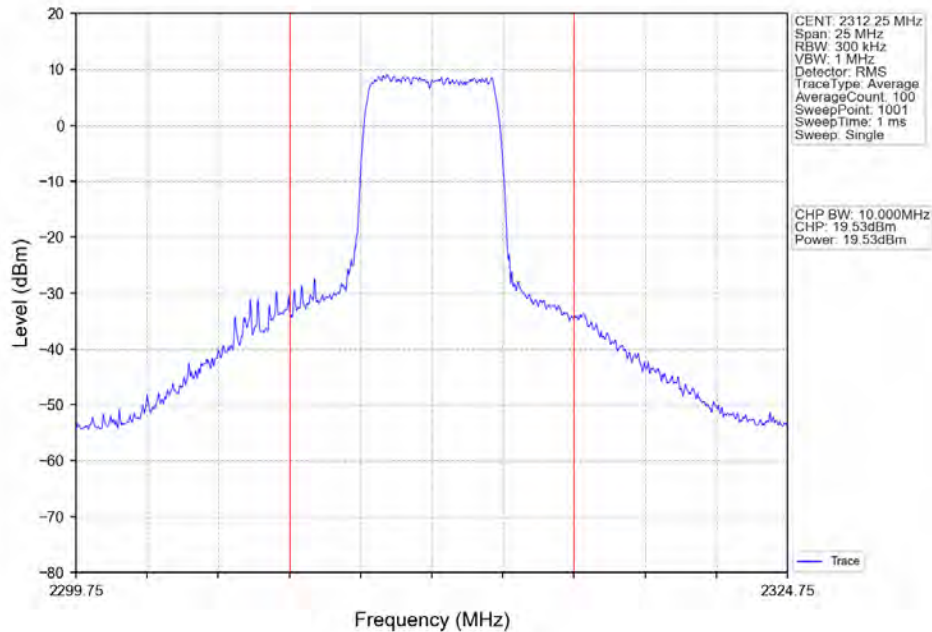
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Report No.: SUCR240400009001

Rev.: 01

Page: 110 of 190



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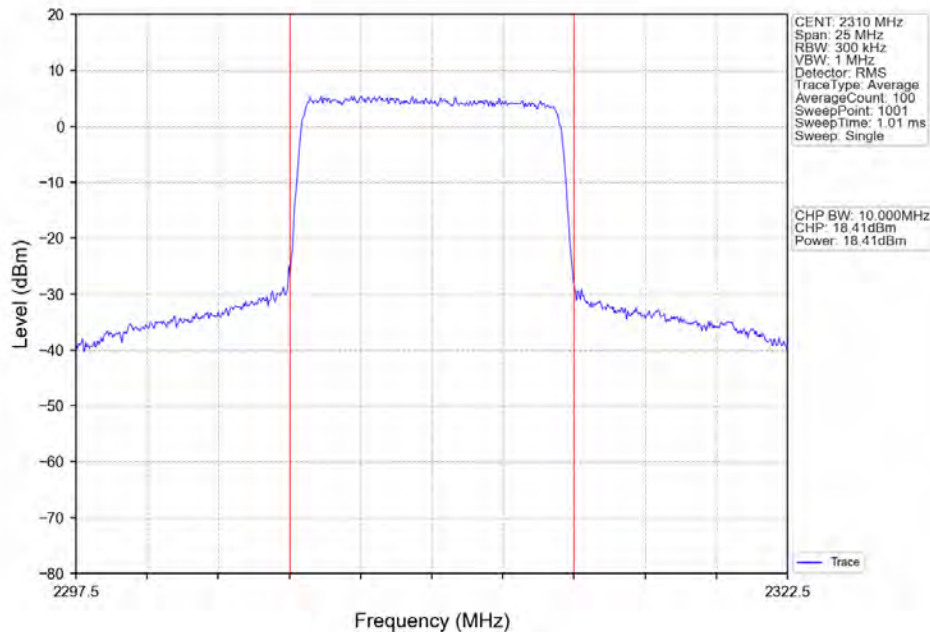
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Report No.: SUCR240400009001

Rev.: 01

Page: 111 of 190

Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_1_0_NTNV



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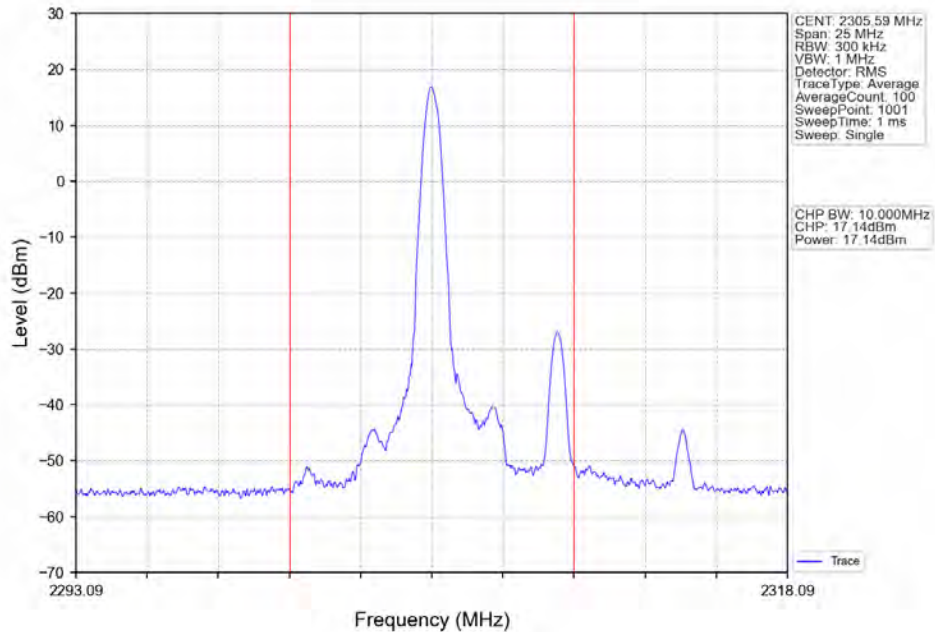
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Report No.: SUCR240400009001

Rev.: 01

Page: 112 of 190



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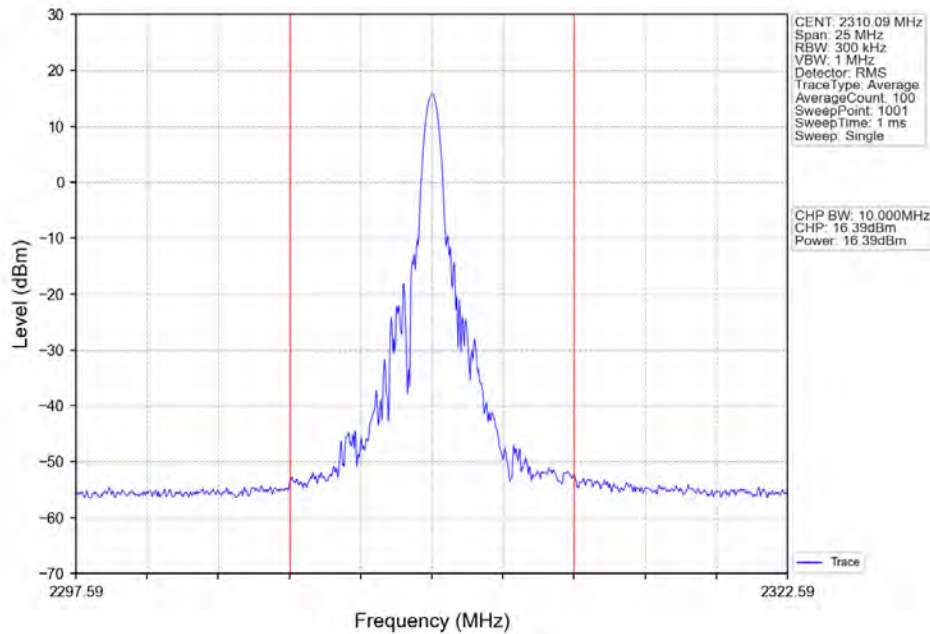
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Report No.: SUCR240400009001

Rev.: 01

Page: 113 of 190

Band30_10MHz_256QAM_MCH_2310MHz_RB_1_25_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_1_49_NTNV



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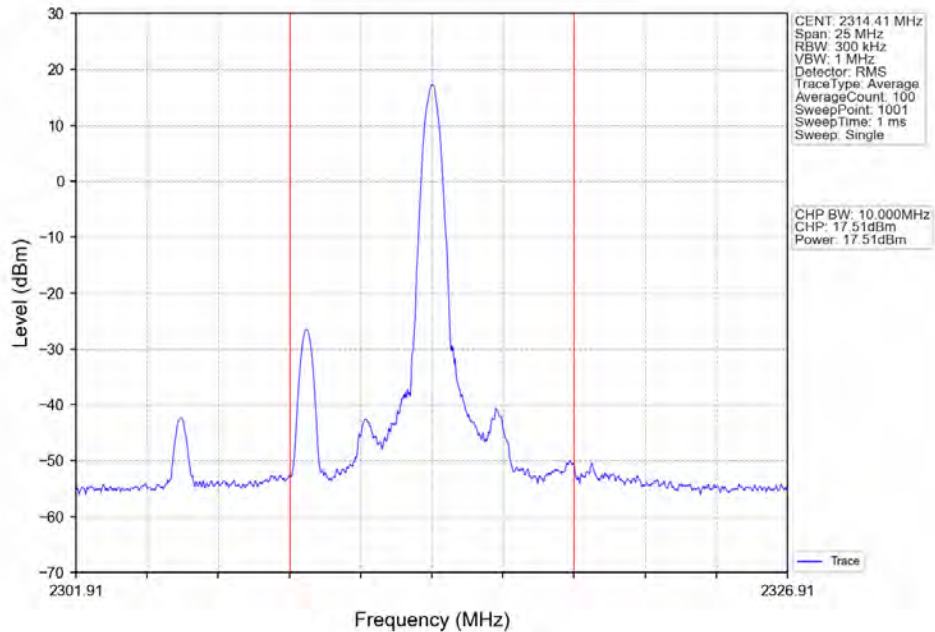
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Page: 114 of 190



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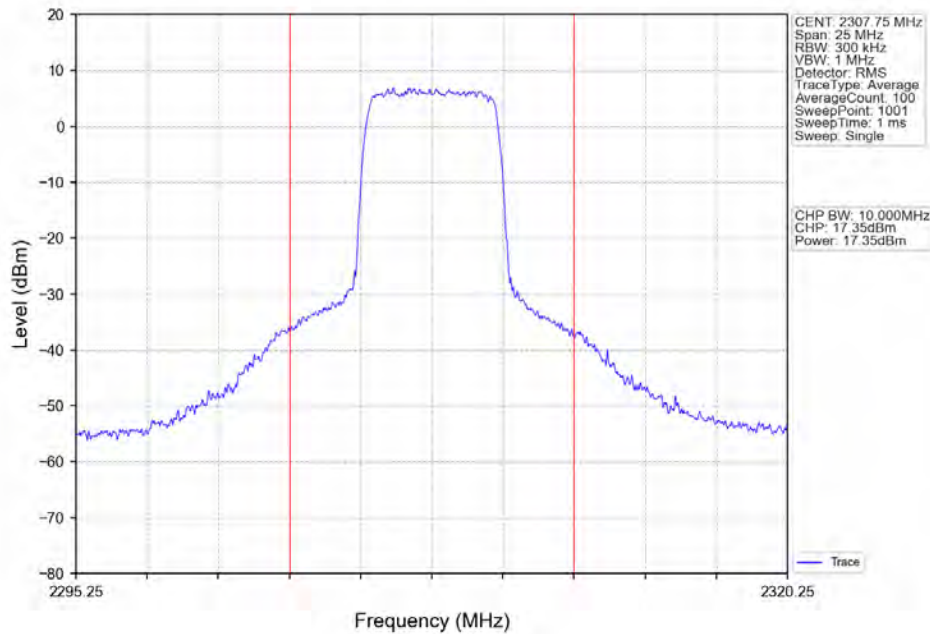
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Report No.: SUCR240400009001

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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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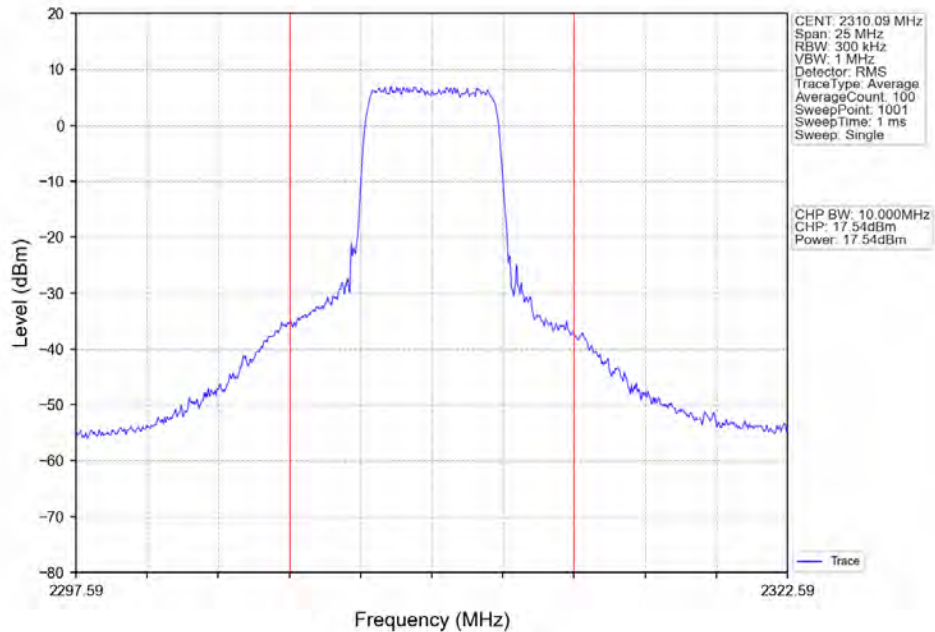
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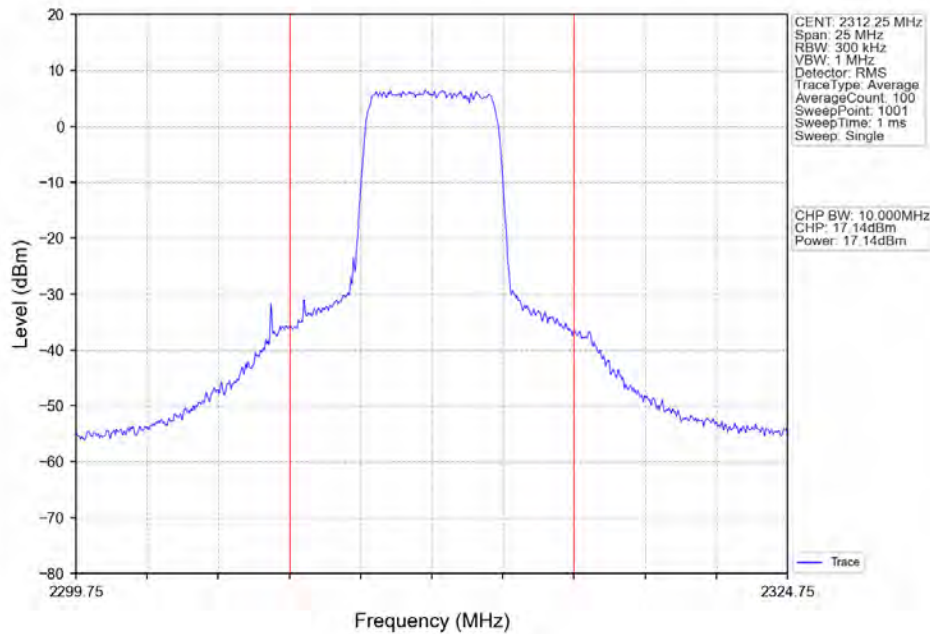
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Report No.: SUCR240400009001

Rev.: 01

Page: 117 of 190

Band30_10MHz_256QAM_MCH_2310MHz_RB_25_25_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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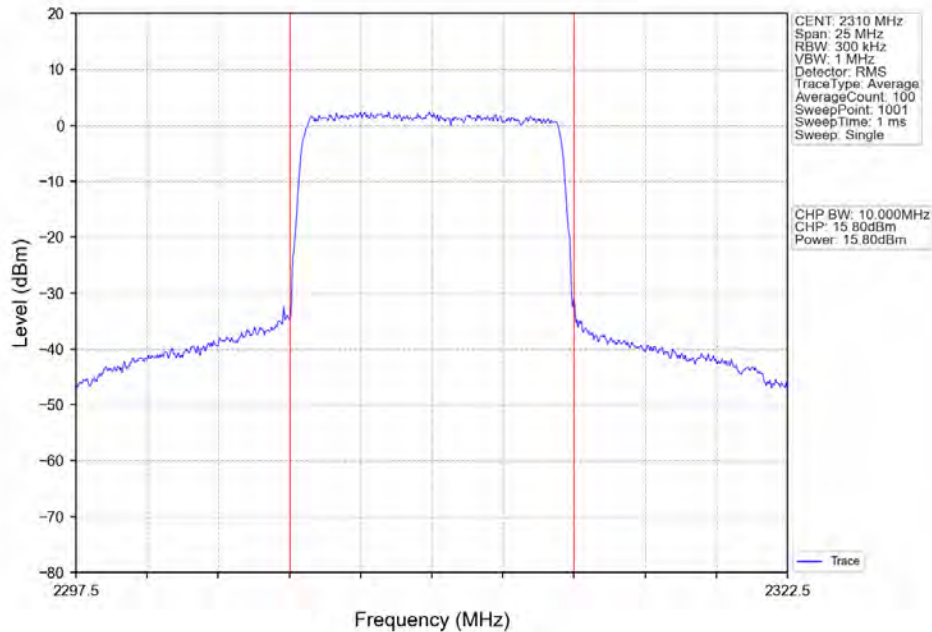
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Rev.: 01

Page: 119 of 190

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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Report No.: SUCR240400009001
Rev.: 01
Page: 120 of 190

3. Field Strength of Spurious Radiation

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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Report No.: SUCR240400009001

Rev.: 01

Page: 121 of 190

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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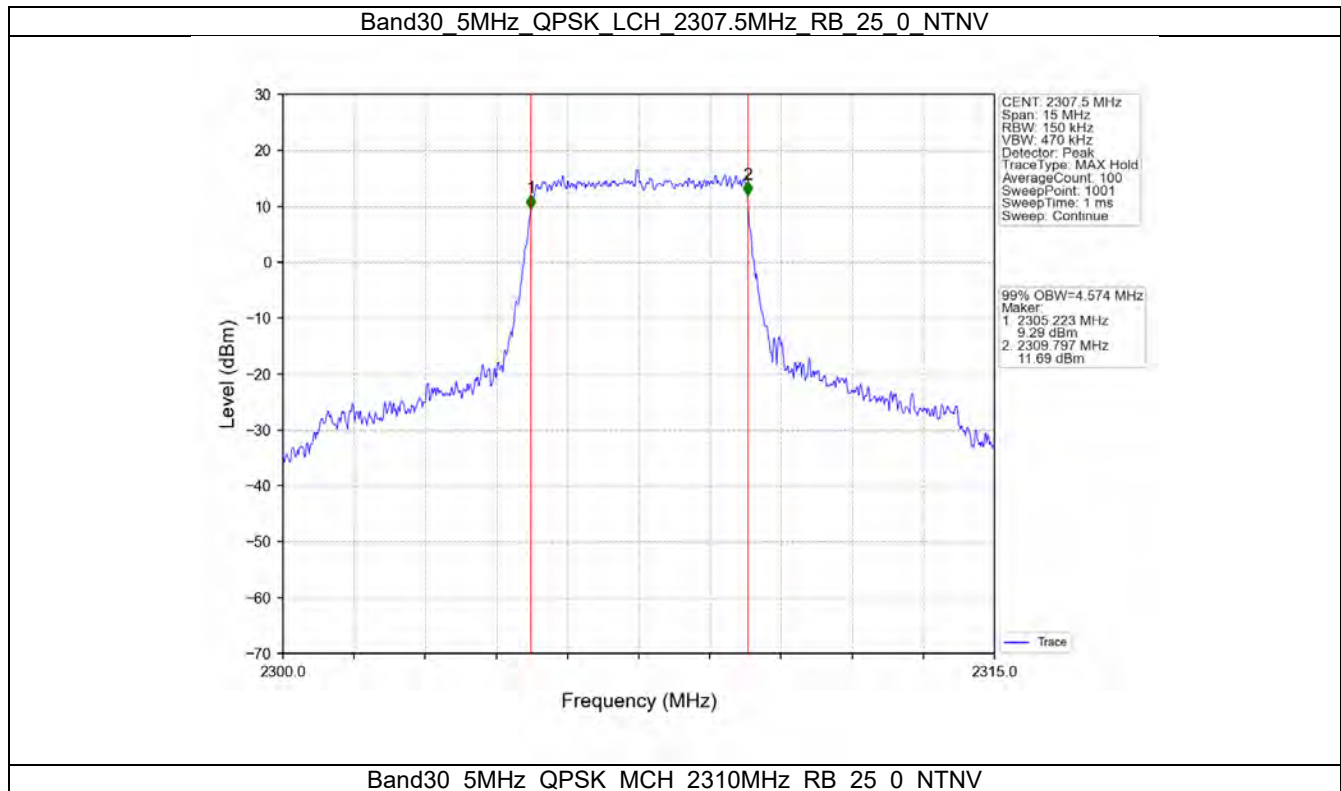
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Report No.: SUCR240400009001

Rev.: 01

Page: 122 of 190

4.1.2 Test Graph



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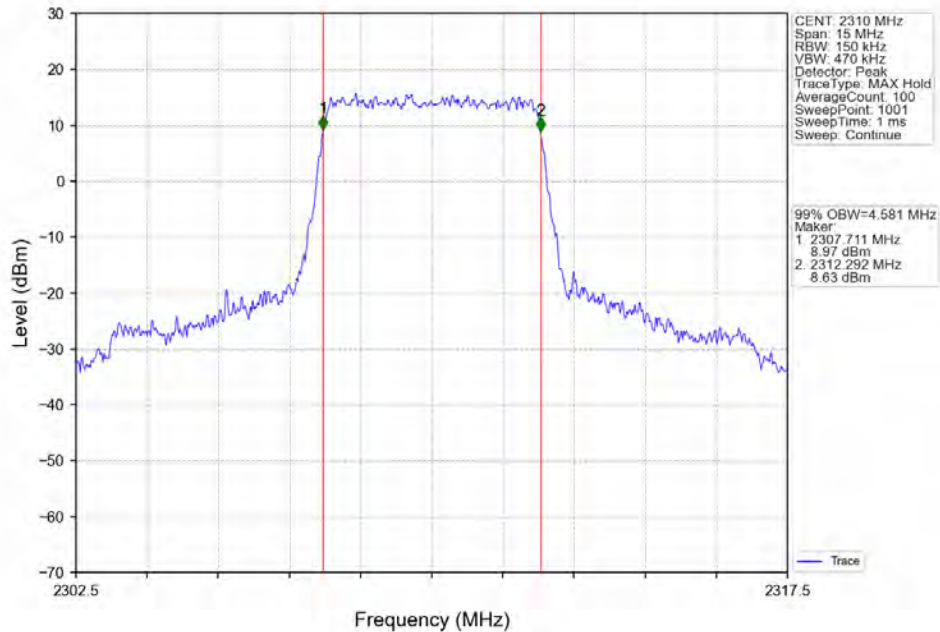
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Rev.: 01

Page: 123 of 190



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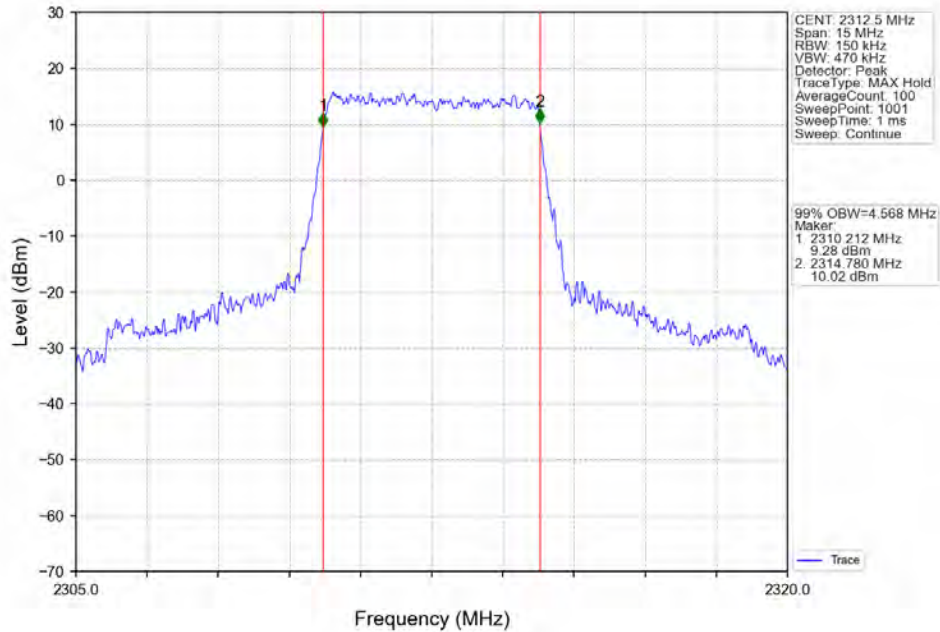
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Report No.: SUCR240400009001

Rev.: 01

Page: 124 of 190

Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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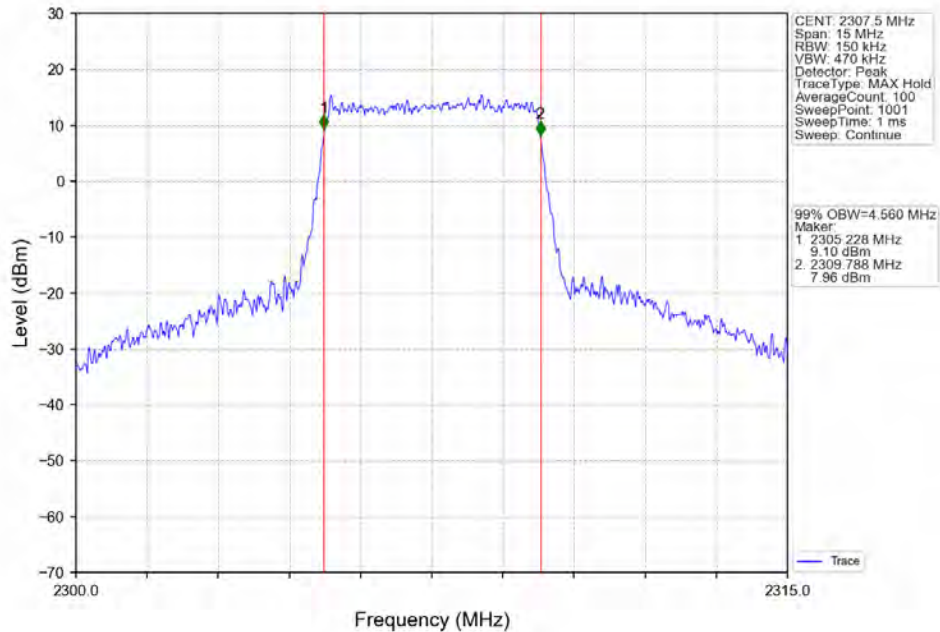
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Page: 125 of 190



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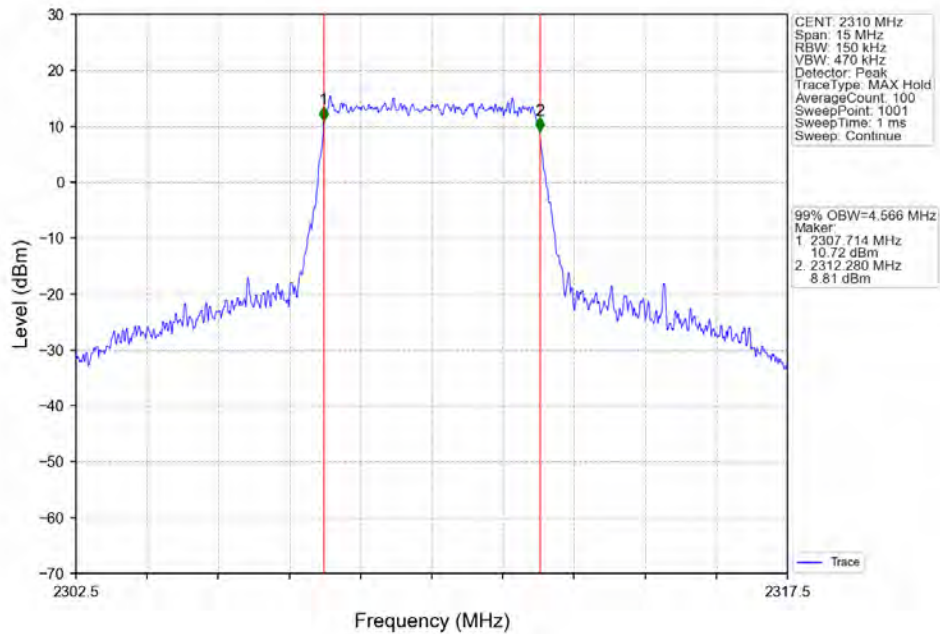
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Report No.: SUCR240400009001

Rev.: 01

Page: 126 of 190

Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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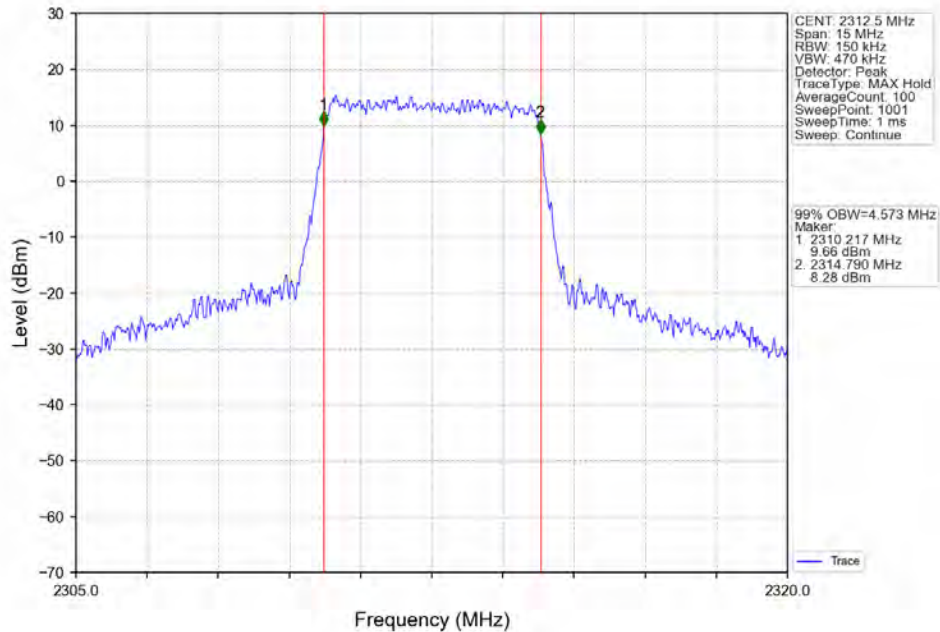
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Page: 127 of 190



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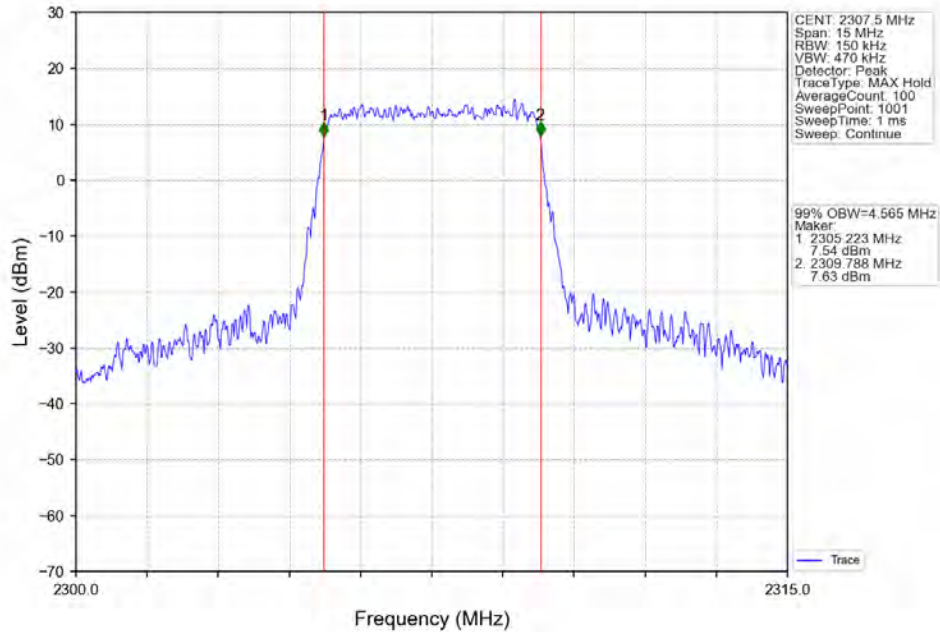
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Report No.: SUCR240400009001

Rev.: 01

Page: 128 of 190

Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



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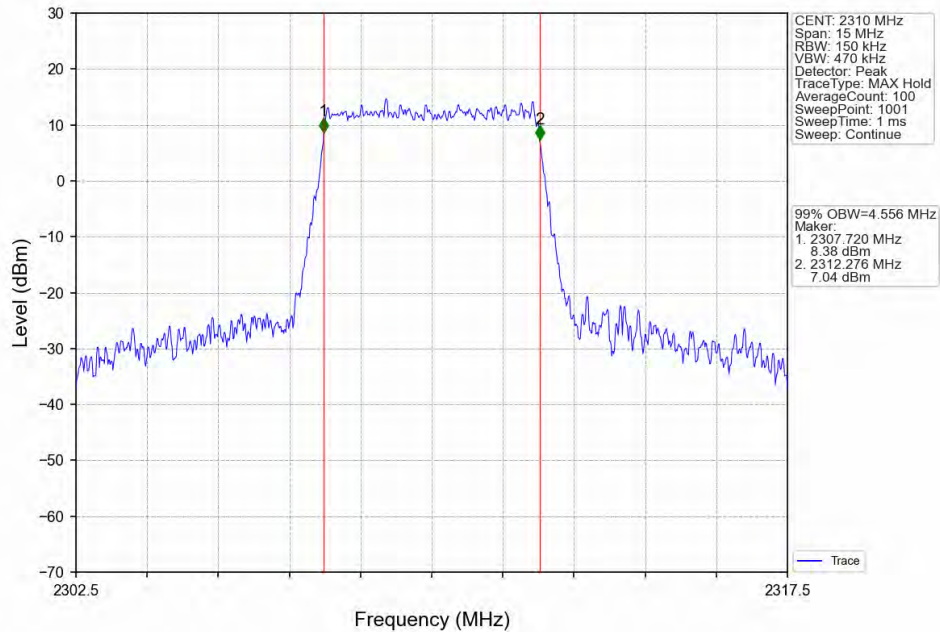
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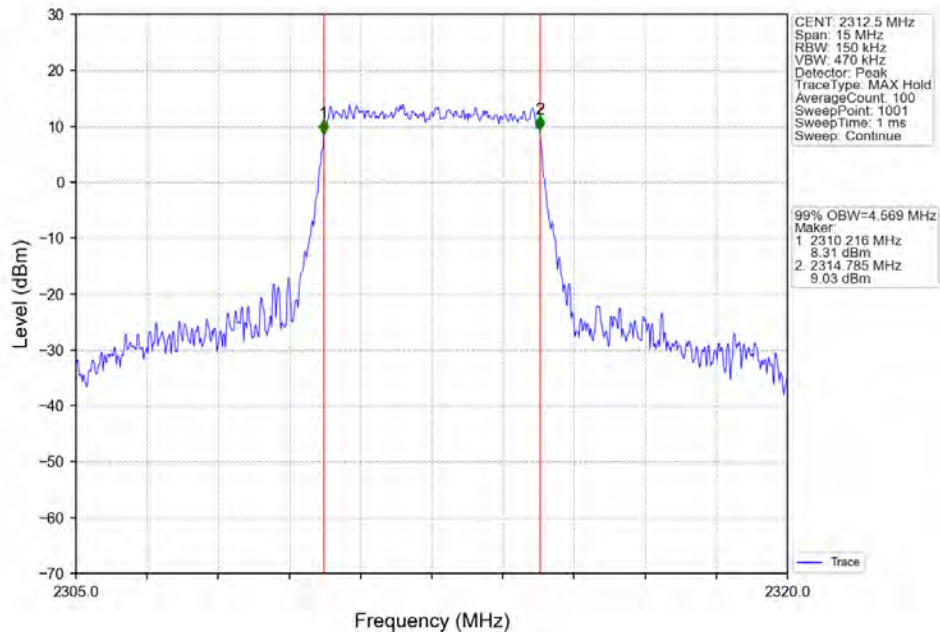
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Report No.: SUCR240400009001

Rev.: 01

Page: 130 of 190

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Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



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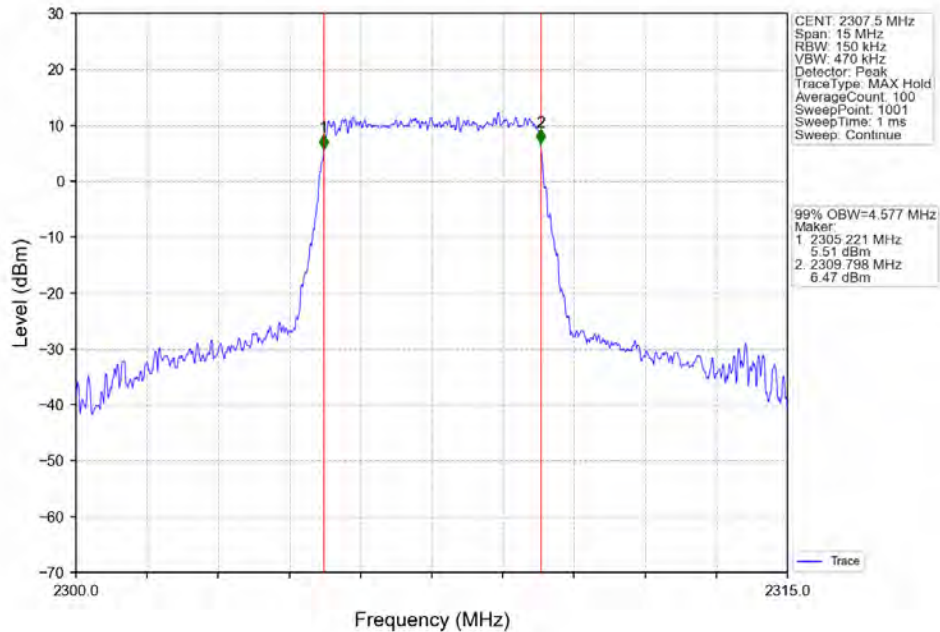
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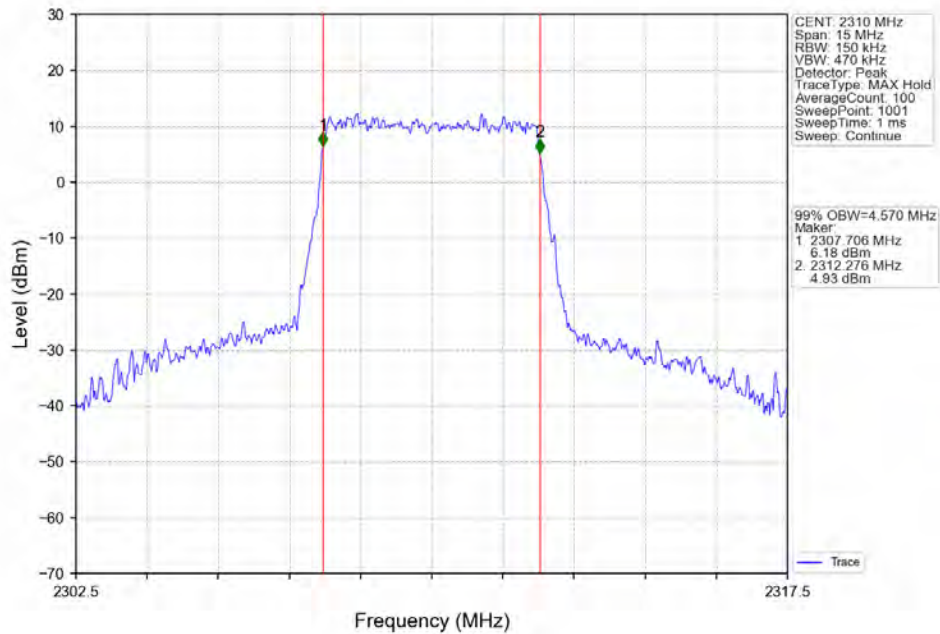
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Report No.: SUCR240400009001

Rev.: 01

Page: 132 of 190

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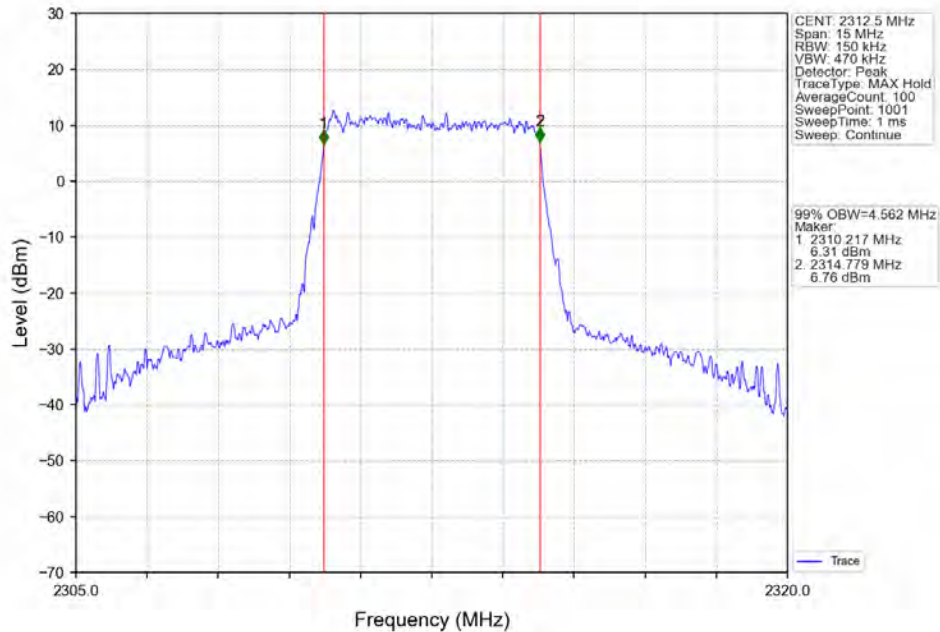
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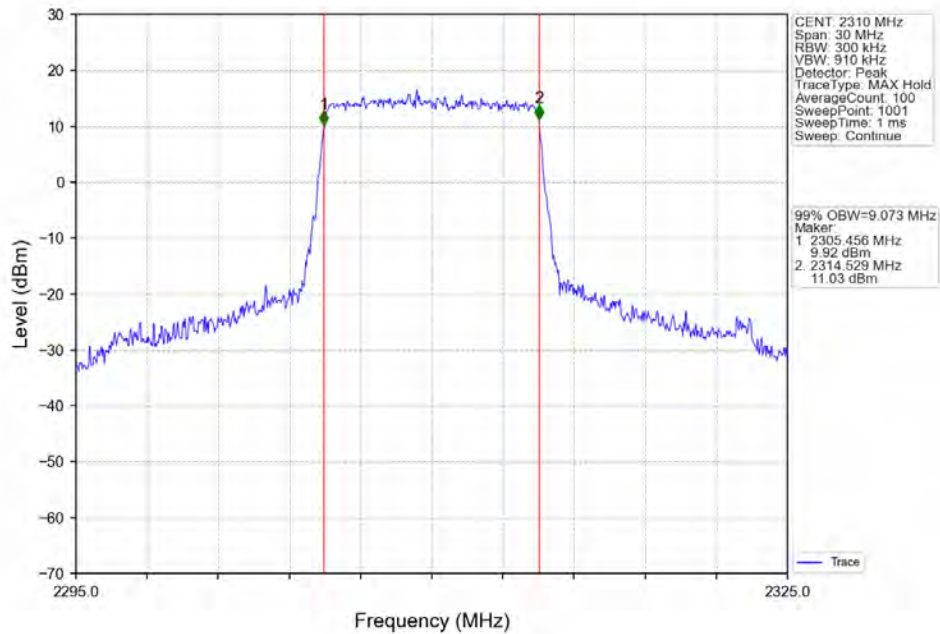
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Report No.: SUCR240400009001

Rev.: 01

Page: 134 of 190

Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



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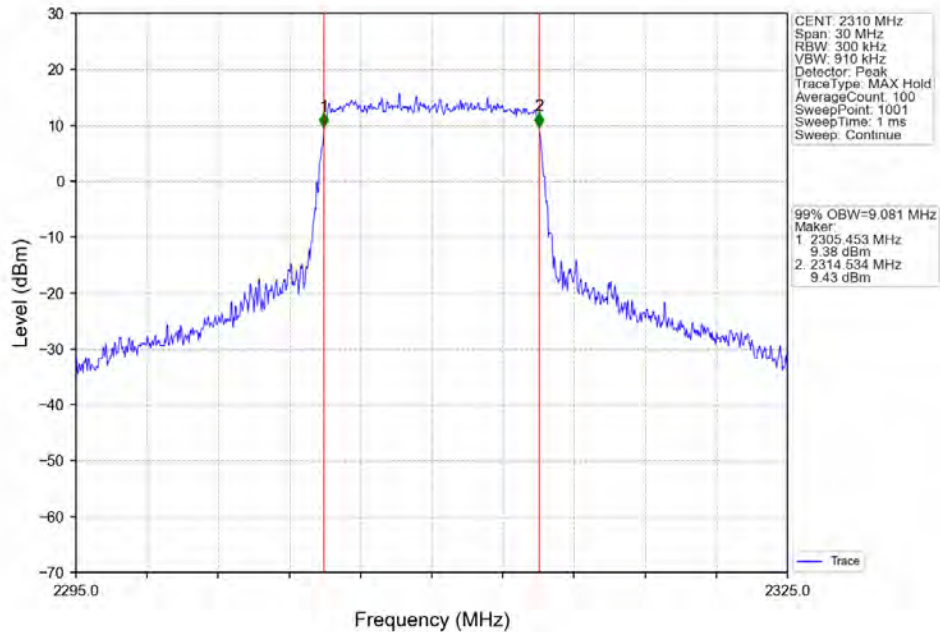
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Report No.: SUCR240400009001

Rev.: 01

Page: 135 of 190



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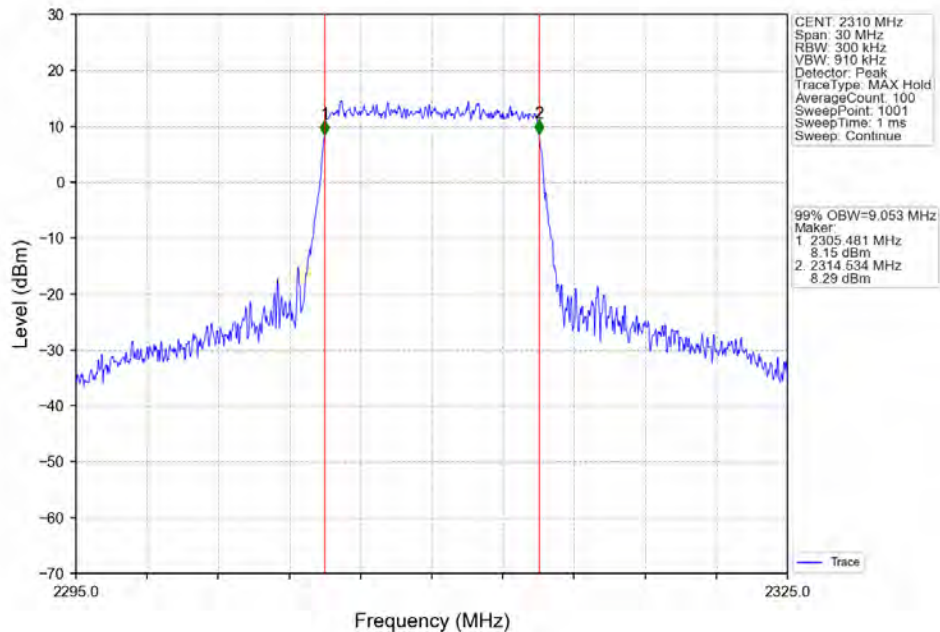
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Report No.: SUCR240400009001

Rev.: 01

Page: 136 of 190

Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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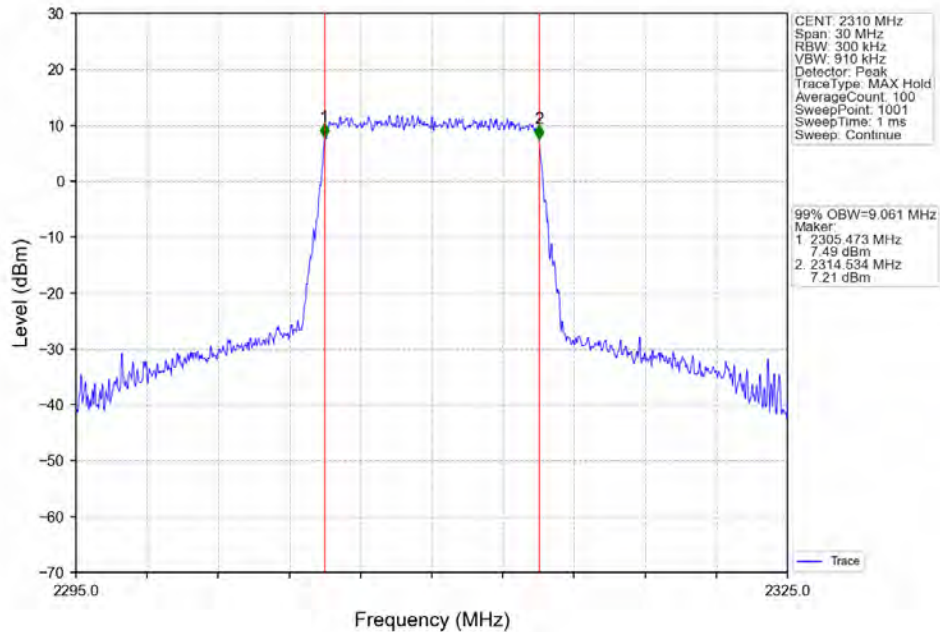
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Report No.: SUCR240400009001

Rev.: 01

Page: 138 of 190

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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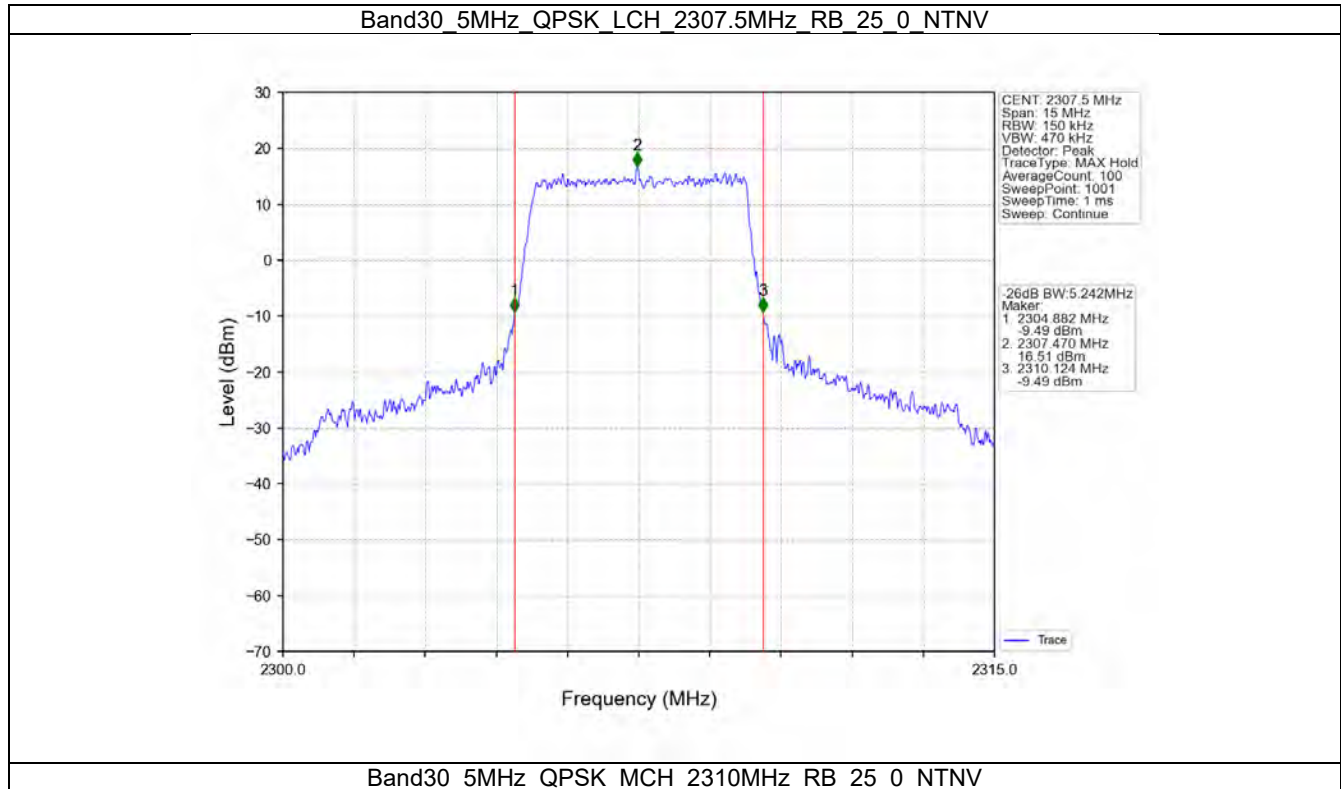
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Page: 139 of 190

4.2.2 Test Graph



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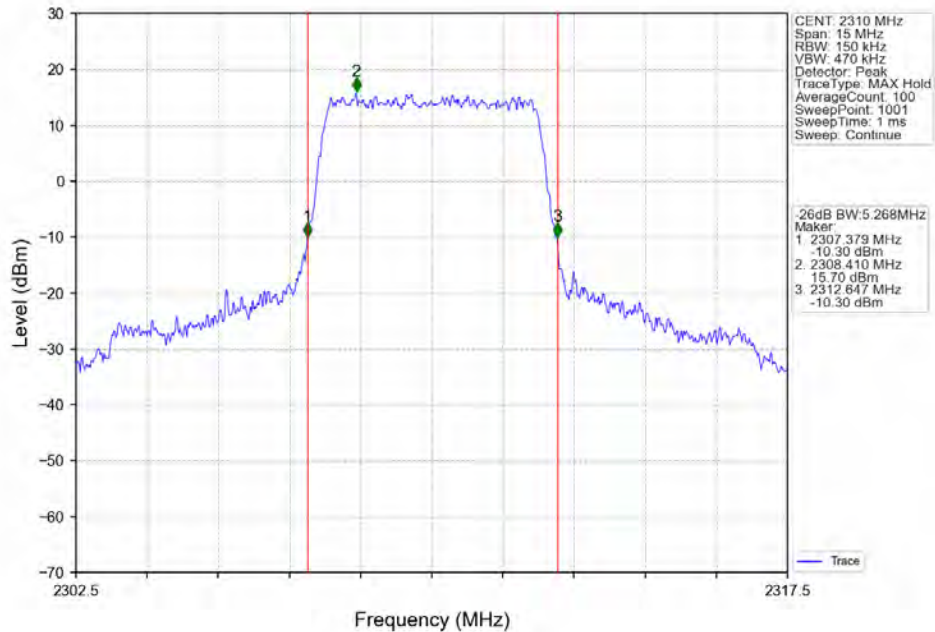
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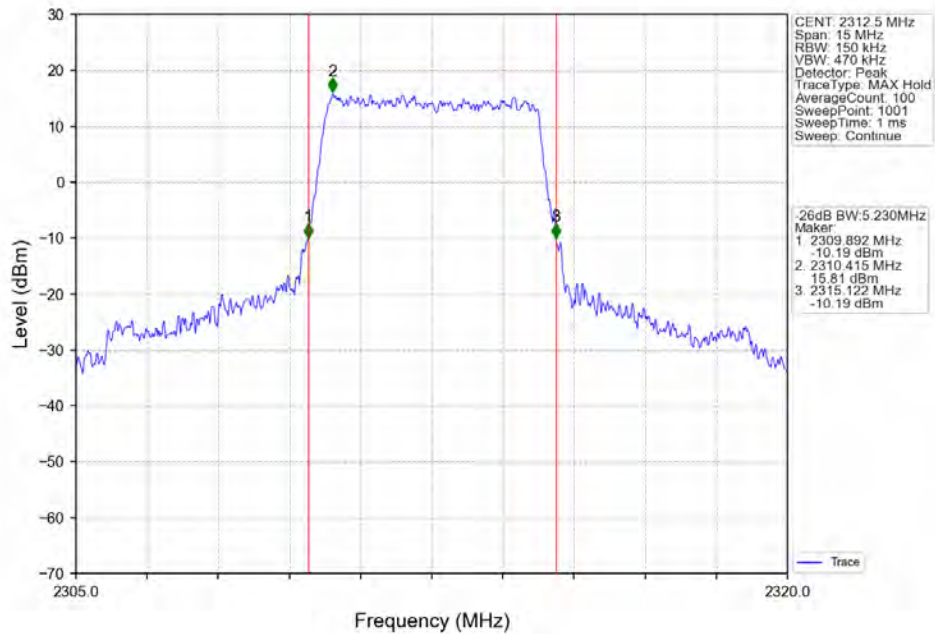
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Rev.: 01

Page: 141 of 190

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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



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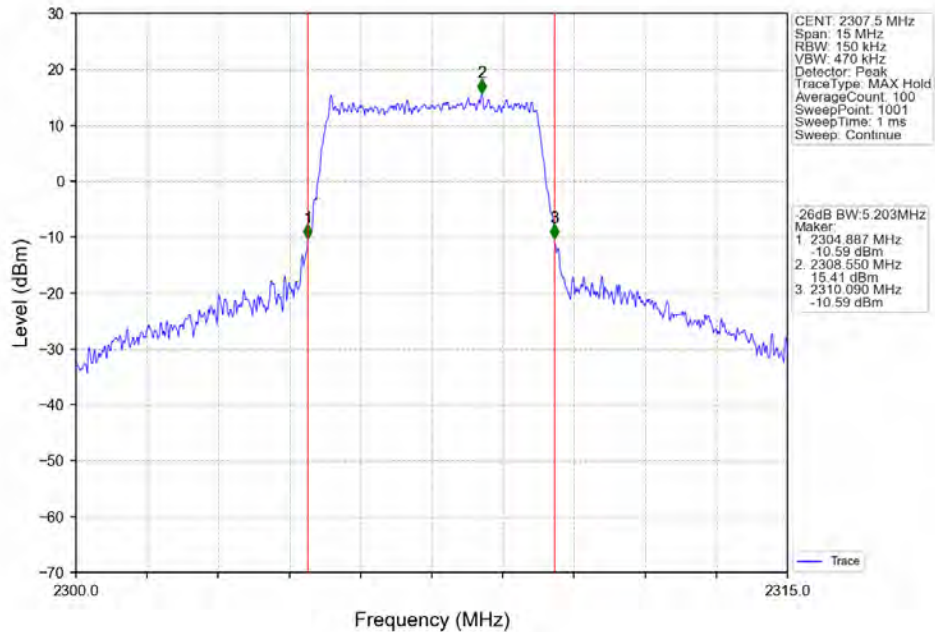
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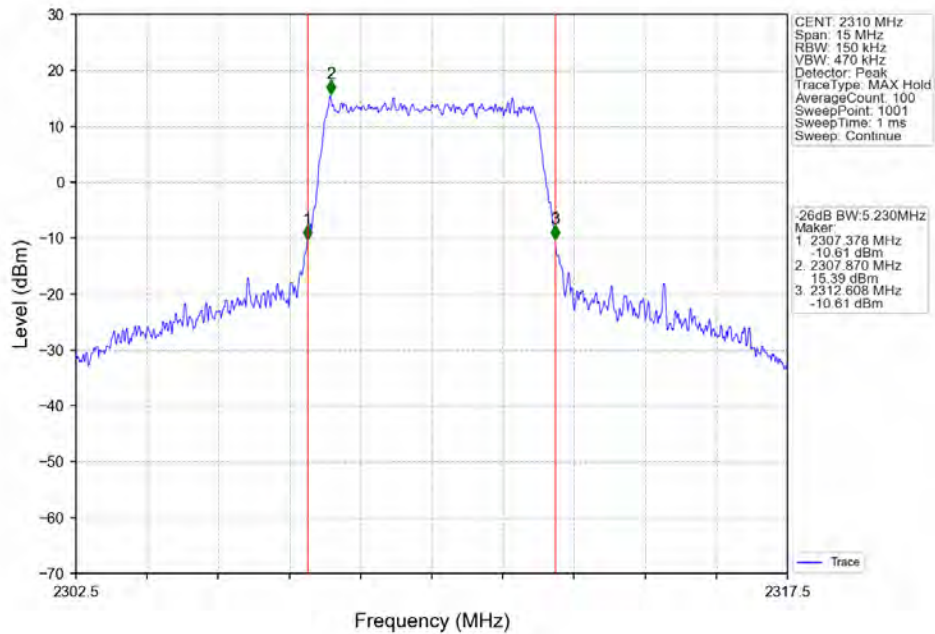
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Report No.: SUCR240400009001

Rev.: 01

Page: 143 of 190

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Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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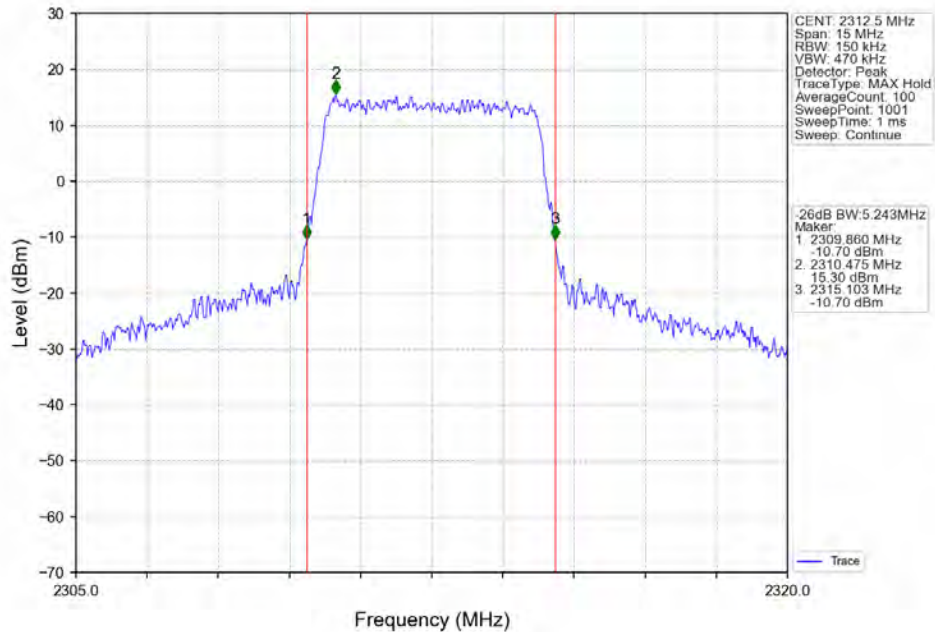
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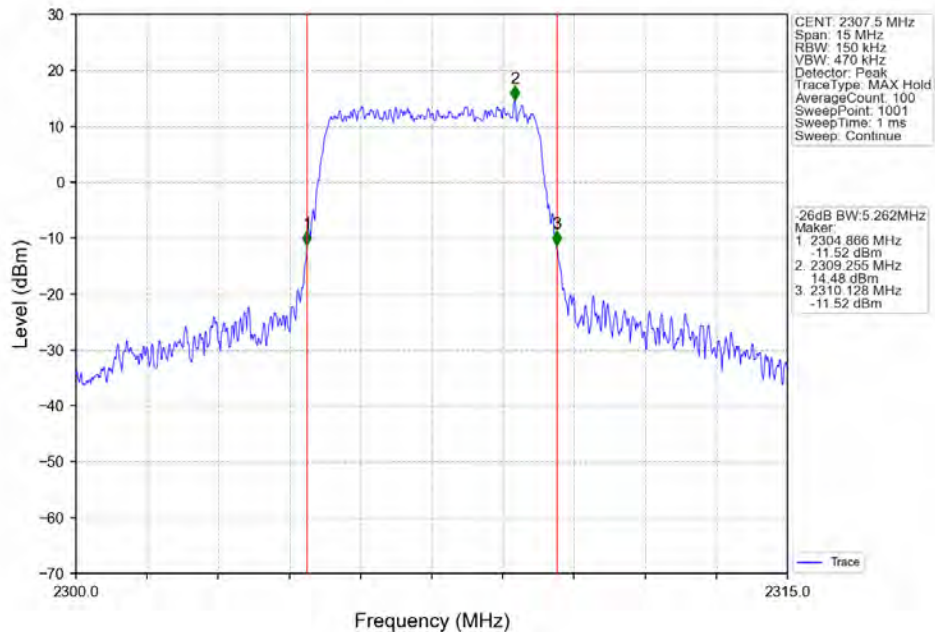
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Report No.: SUCR240400009001

Rev.: 01

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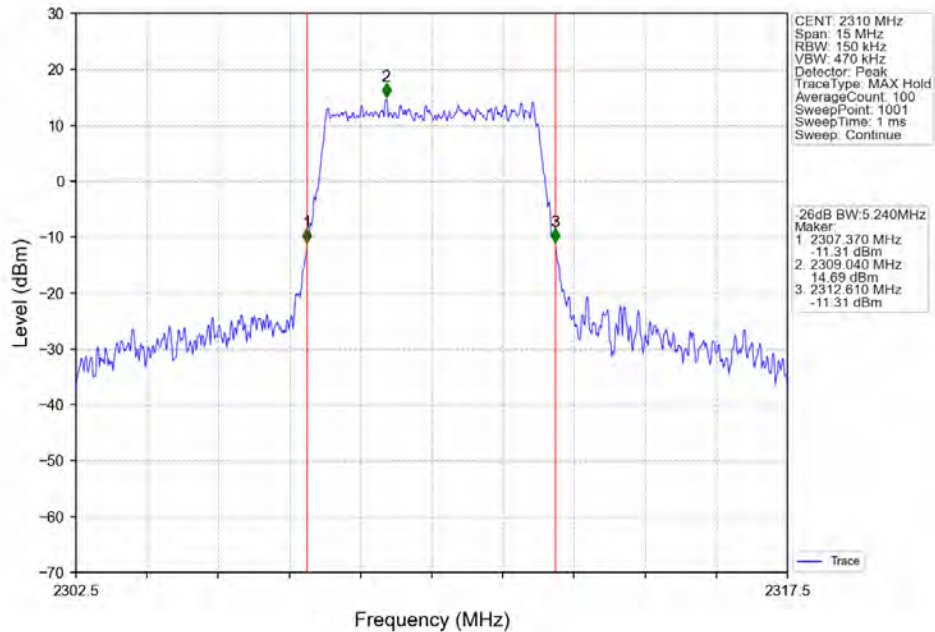
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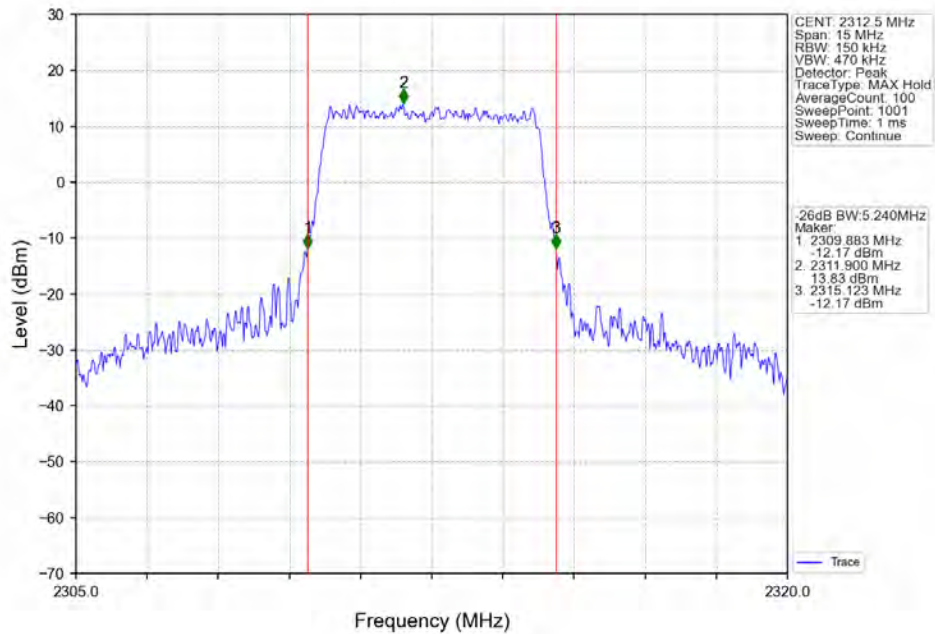
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Report No.: SUCR240400009001

Rev.: 01

Page: 147 of 190

Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



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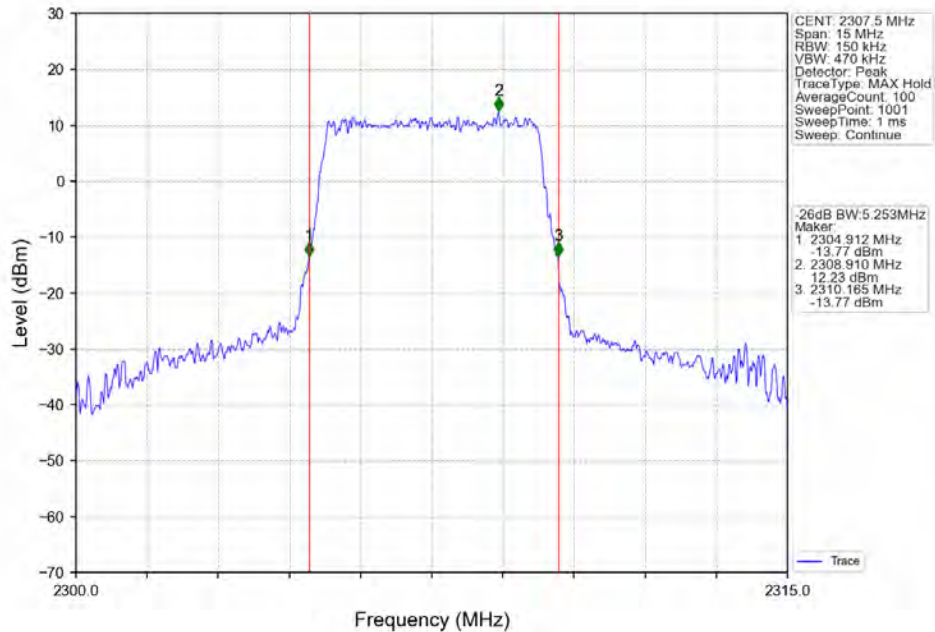
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Report No.: SUCR240400009001

Rev.: 01

Page: 148 of 190



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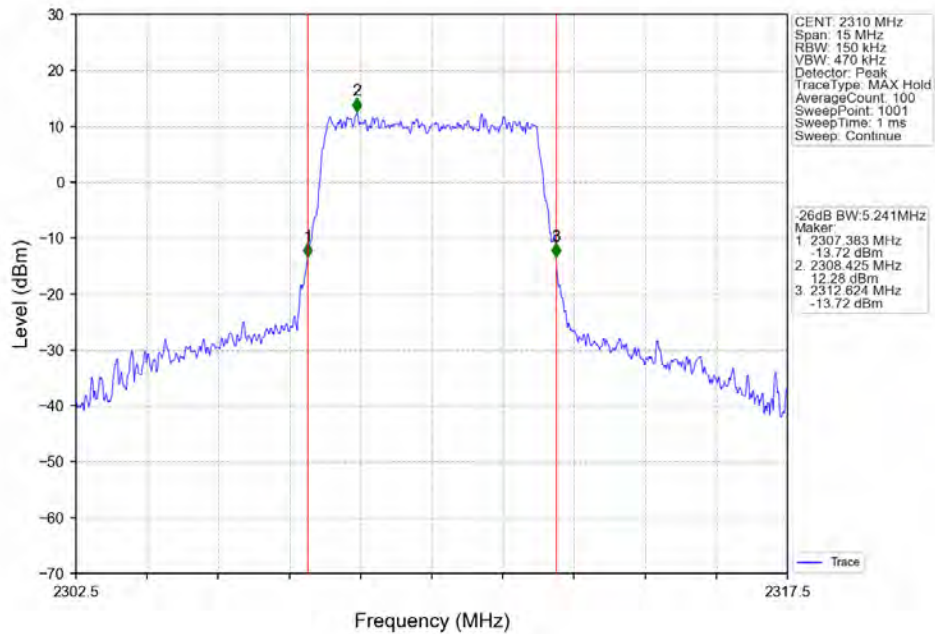
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Report No.: SUCR240400009001

Rev.: 01

Page: 149 of 190

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Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



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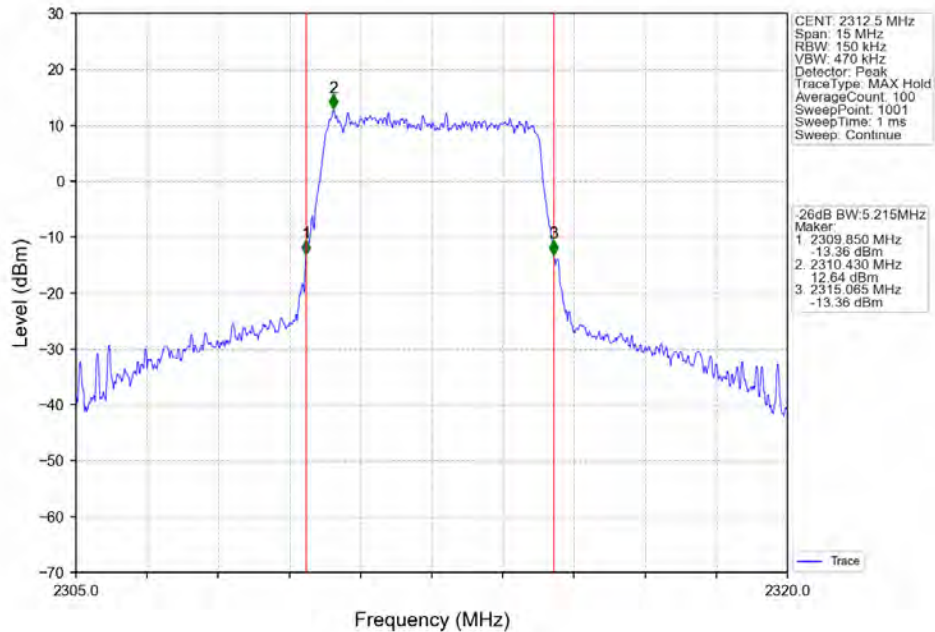
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Rev.: 01

Page: 150 of 190



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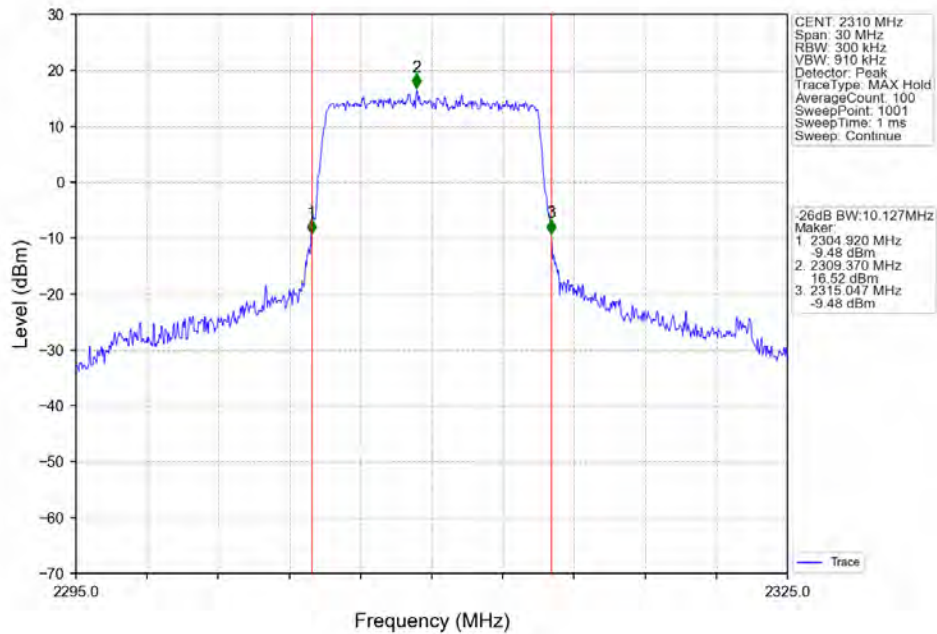
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Report No.: SUCR240400009001

Rev.: 01

Page: 151 of 190

Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



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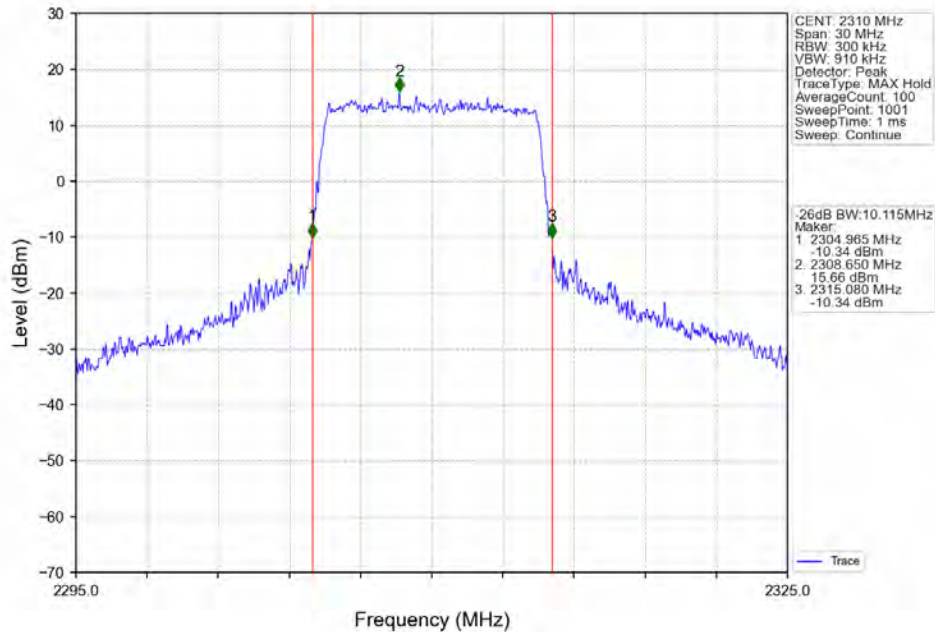
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Page: 152 of 190



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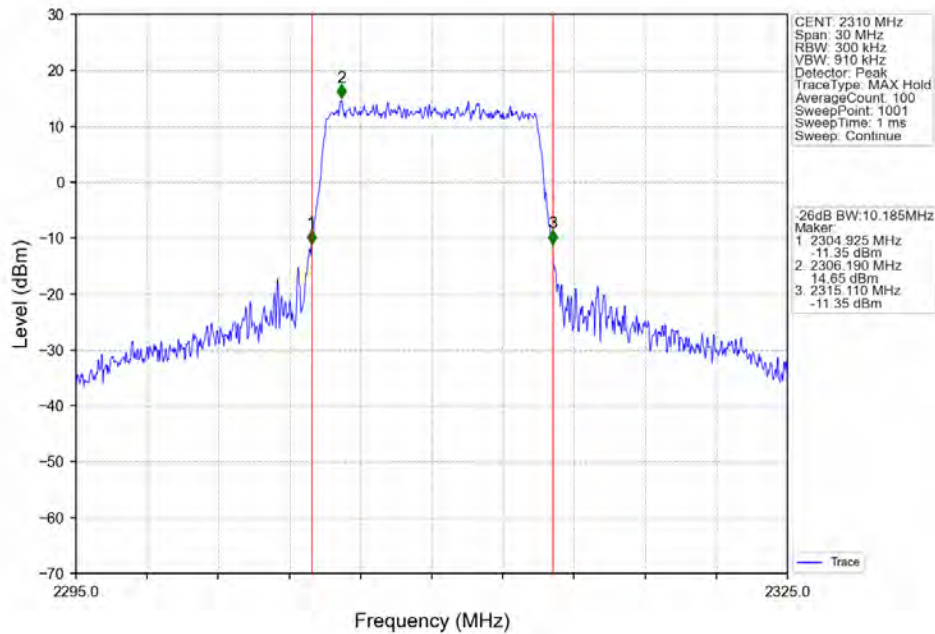
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Rev.: 01

Page: 153 of 190

Band30_10MHz_64QAM_MCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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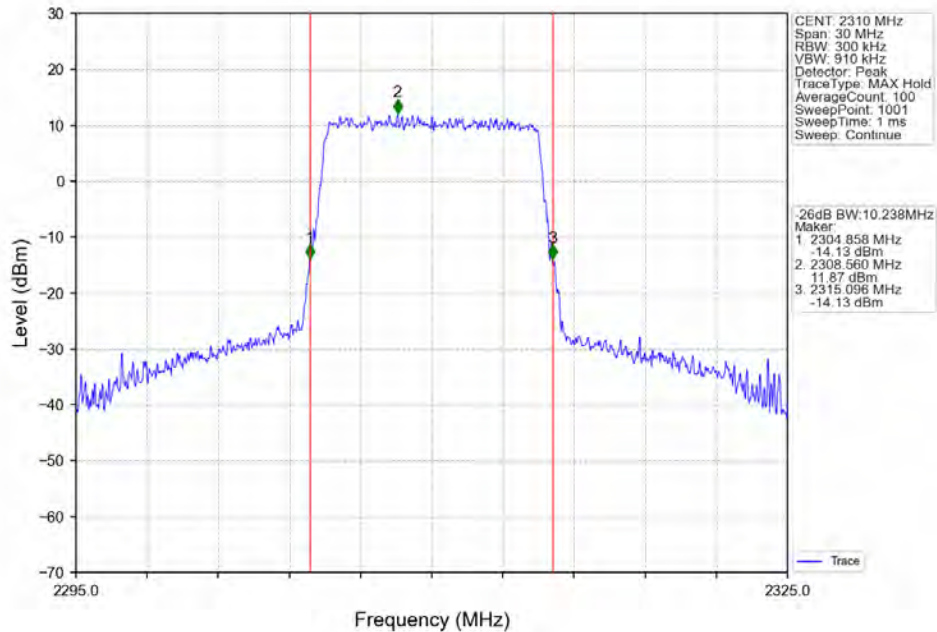
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Rev.: 01
Page: 155 of 190

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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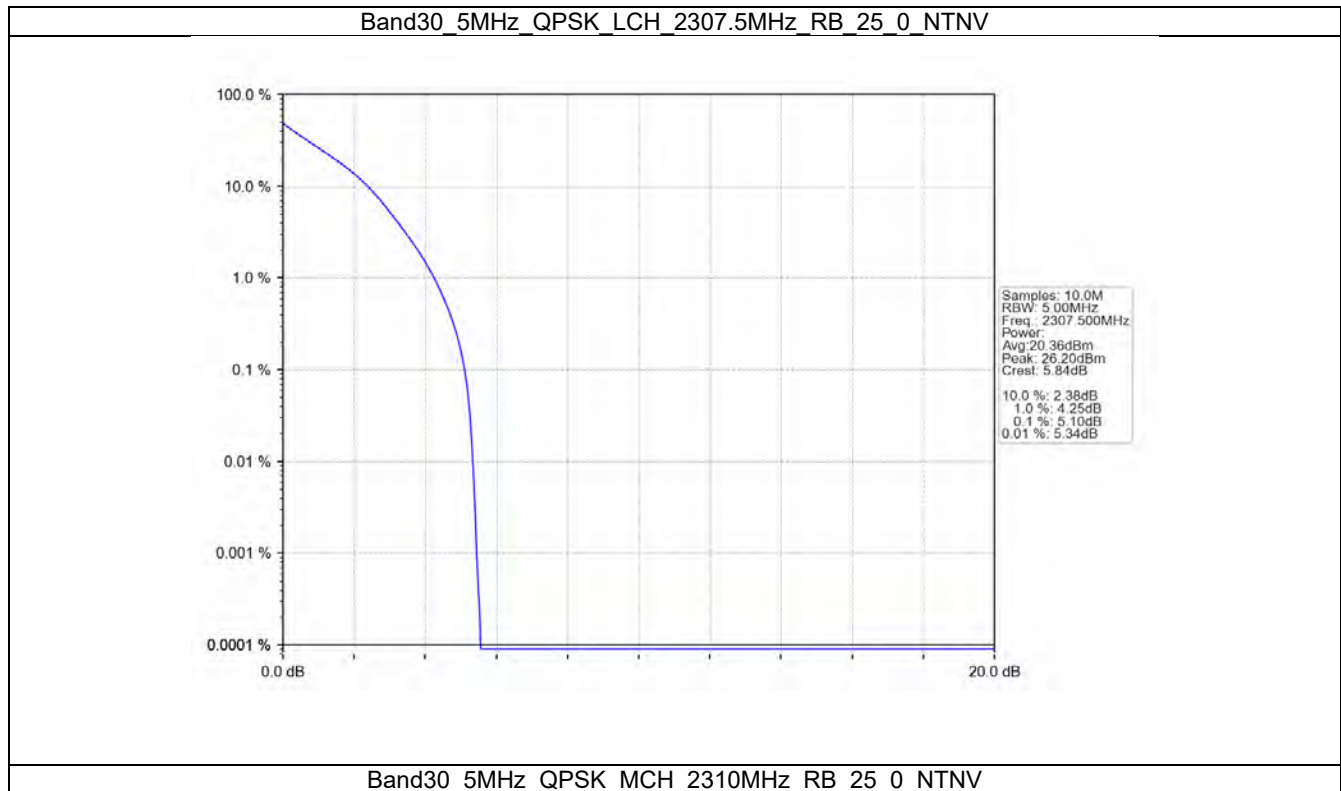
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5.1.2 Test Graph



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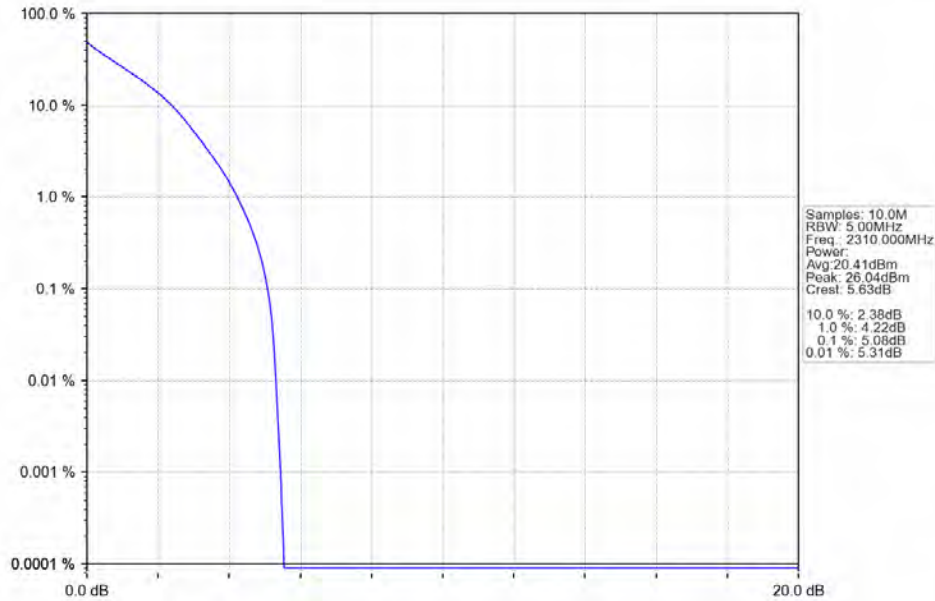
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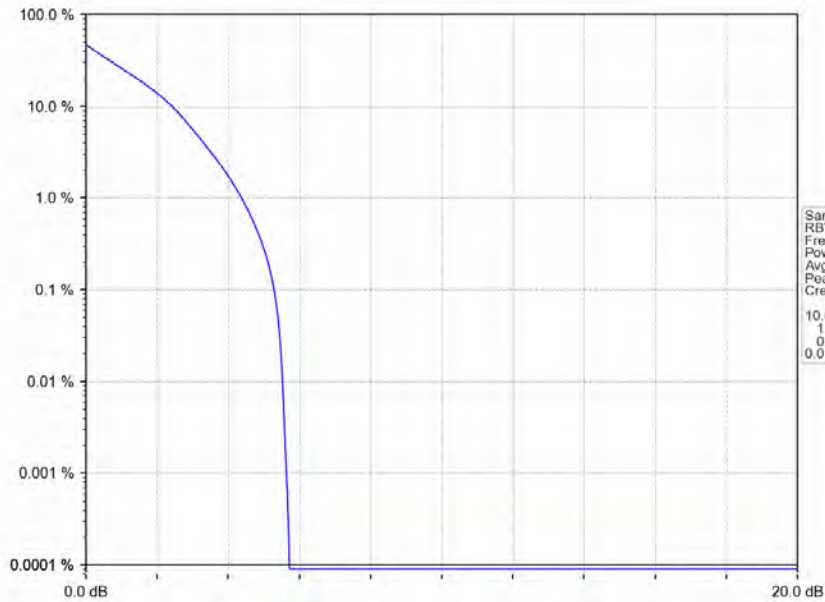
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Report No.: SUCR240400009001

Rev.: 01

Page: 158 of 190

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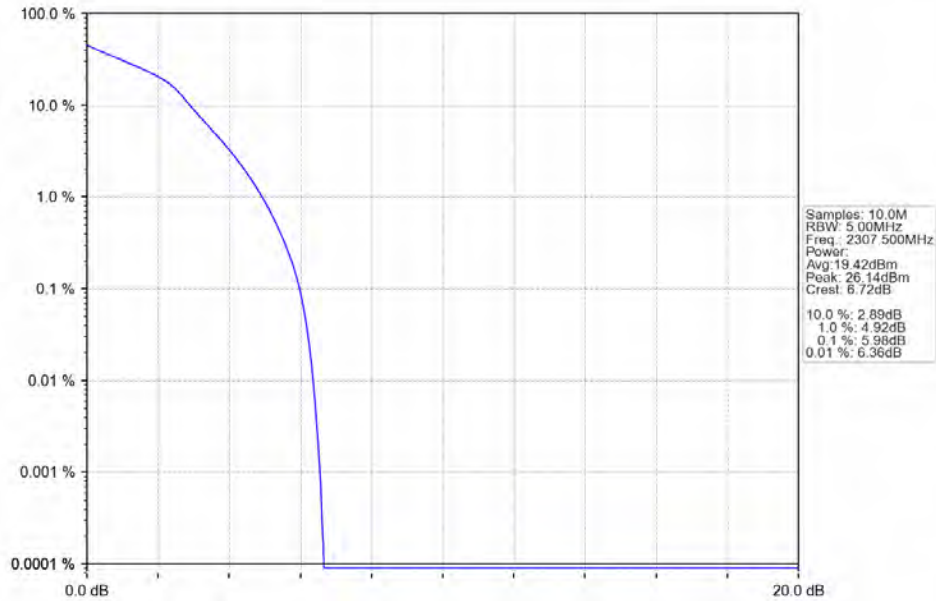
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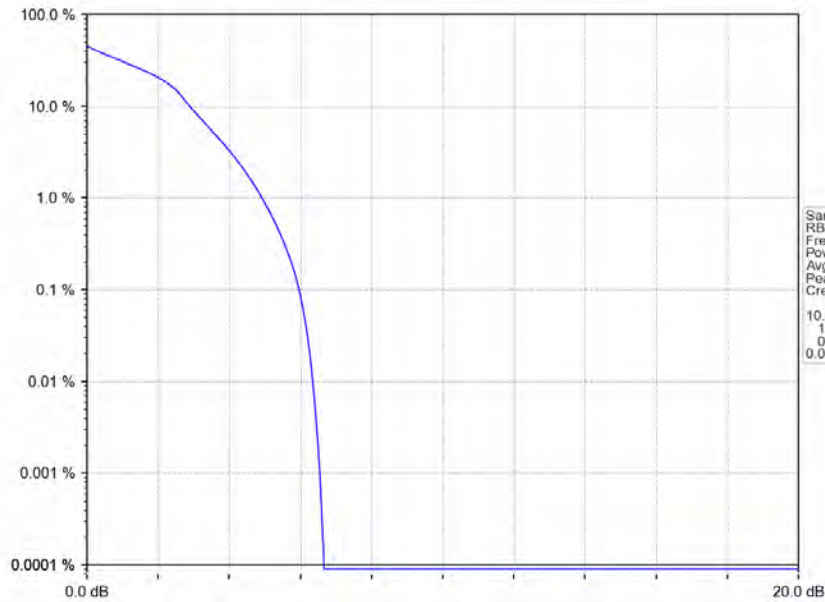
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Report No.: SUCR240400009001

Rev.: 01

Page: 160 of 190

Band30_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



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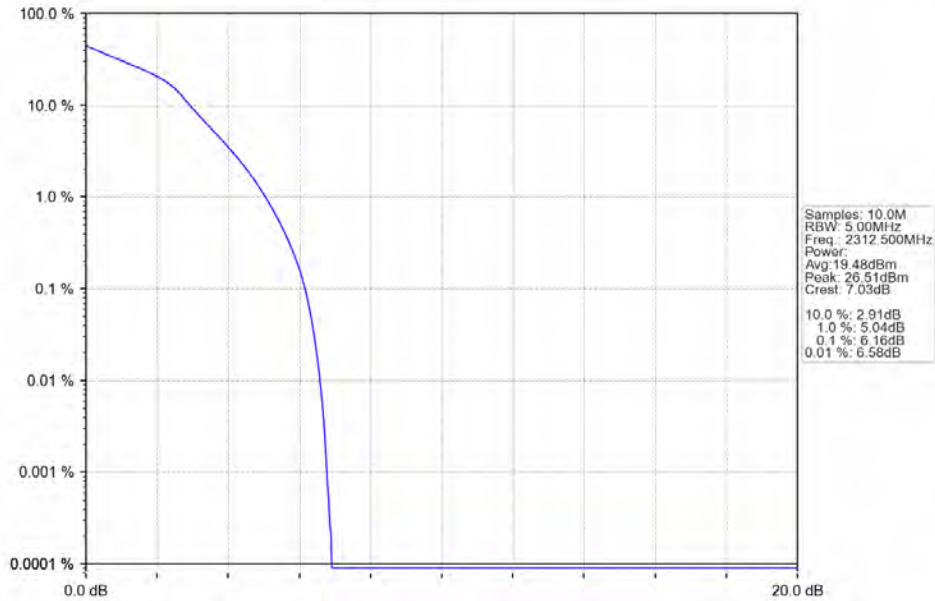
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Rev.: 01

Page: 161 of 190



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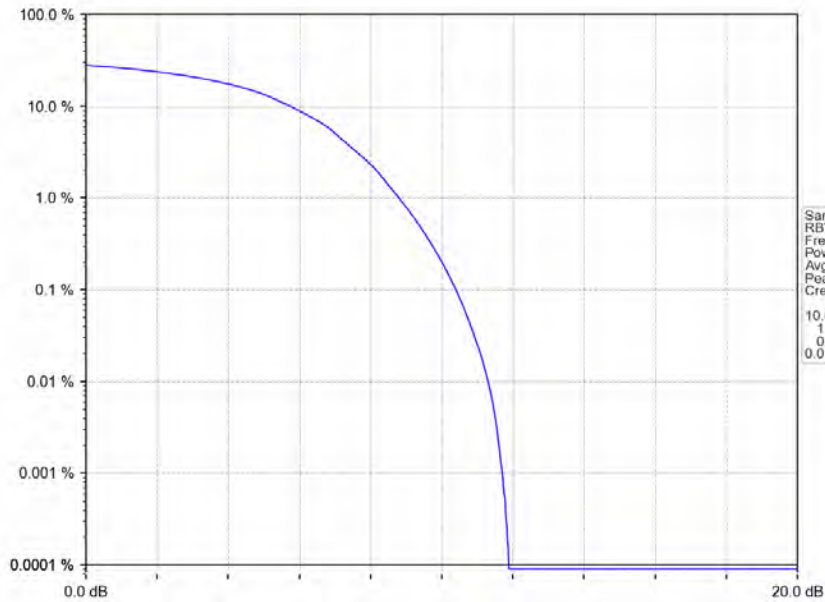
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Report No.: SUCR240400009001

Rev.: 01

Page: 162 of 190

Band30_5MHz_64QAM_LCH_2307.5MHz_RB_25_0_NTNV



Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



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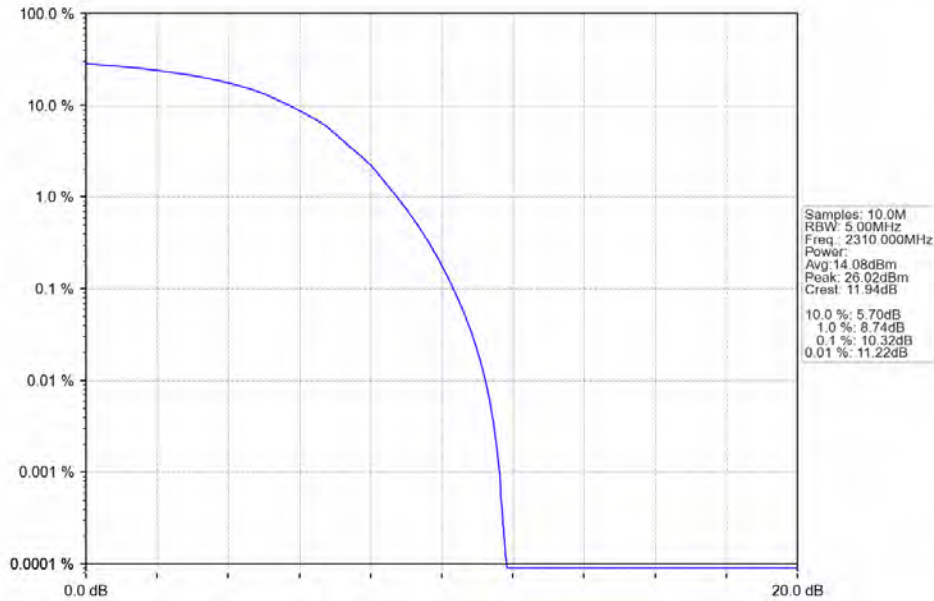
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Rev.: 01

Page: 163 of 190



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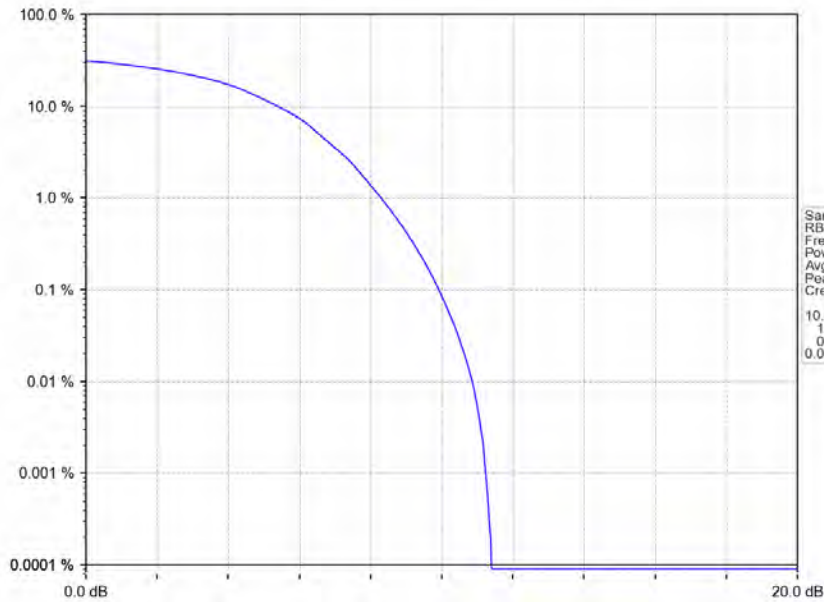
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Page: 164 of 190

Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_256QAM_LCH_2307.5MHz_RB_25_0_NTNV



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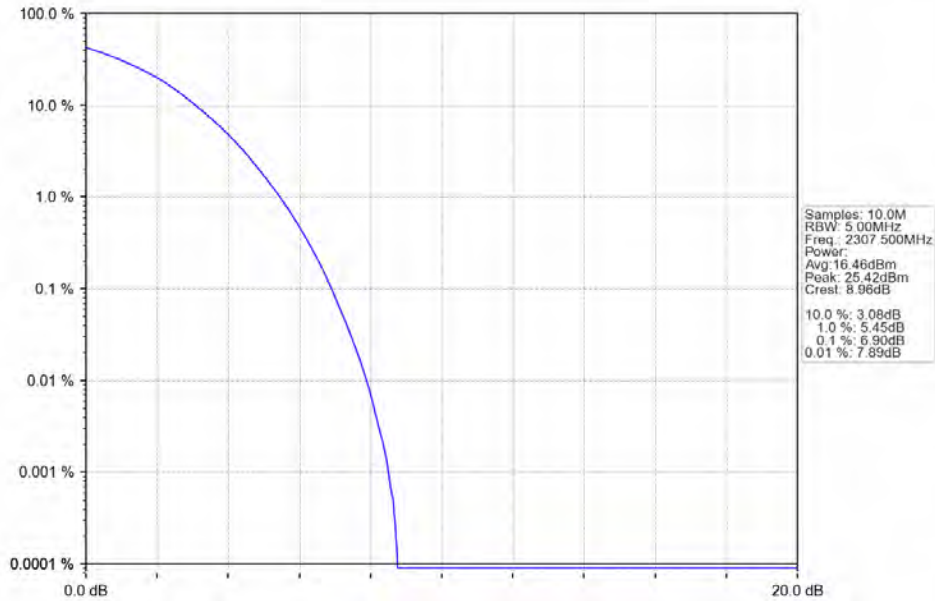
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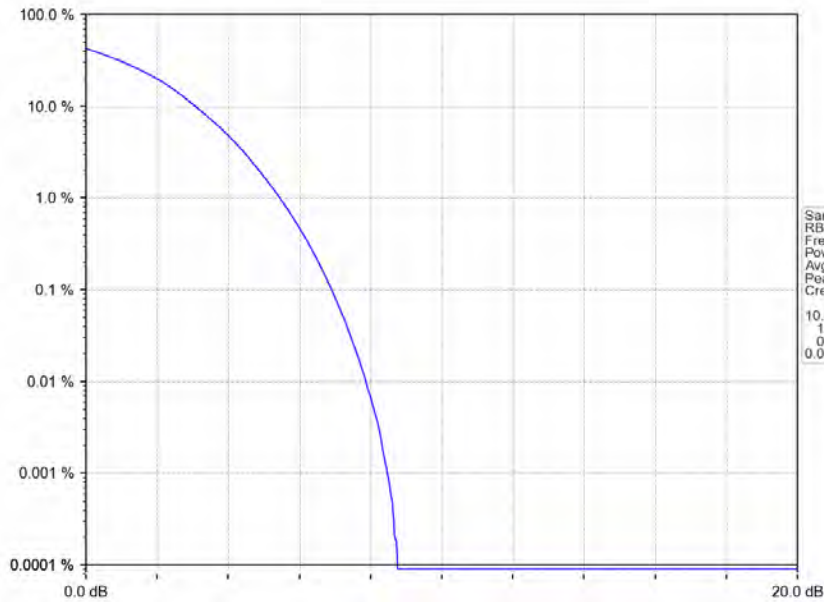
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Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



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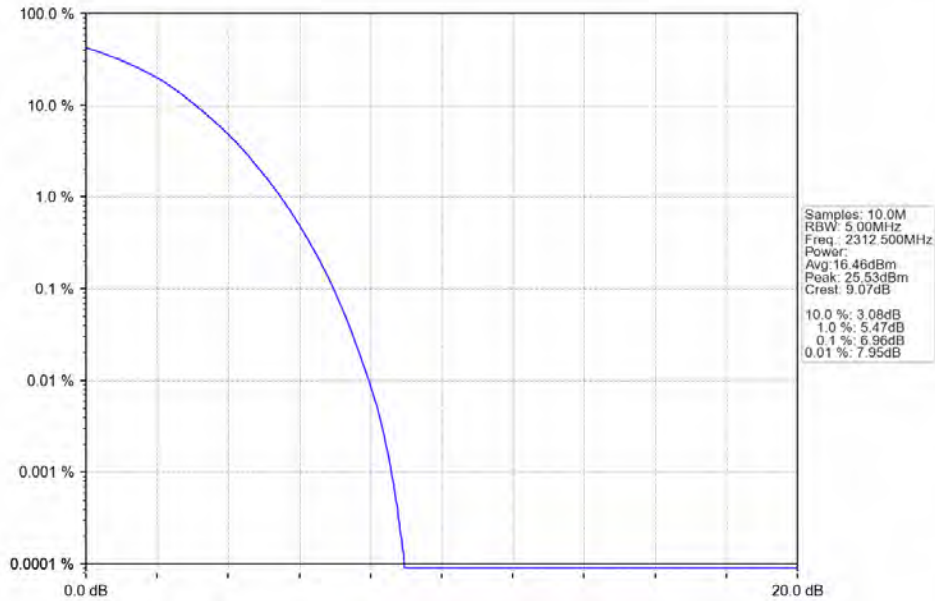
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Report No.: SUCR240400009001

Rev.: 01

Page: 168 of 190

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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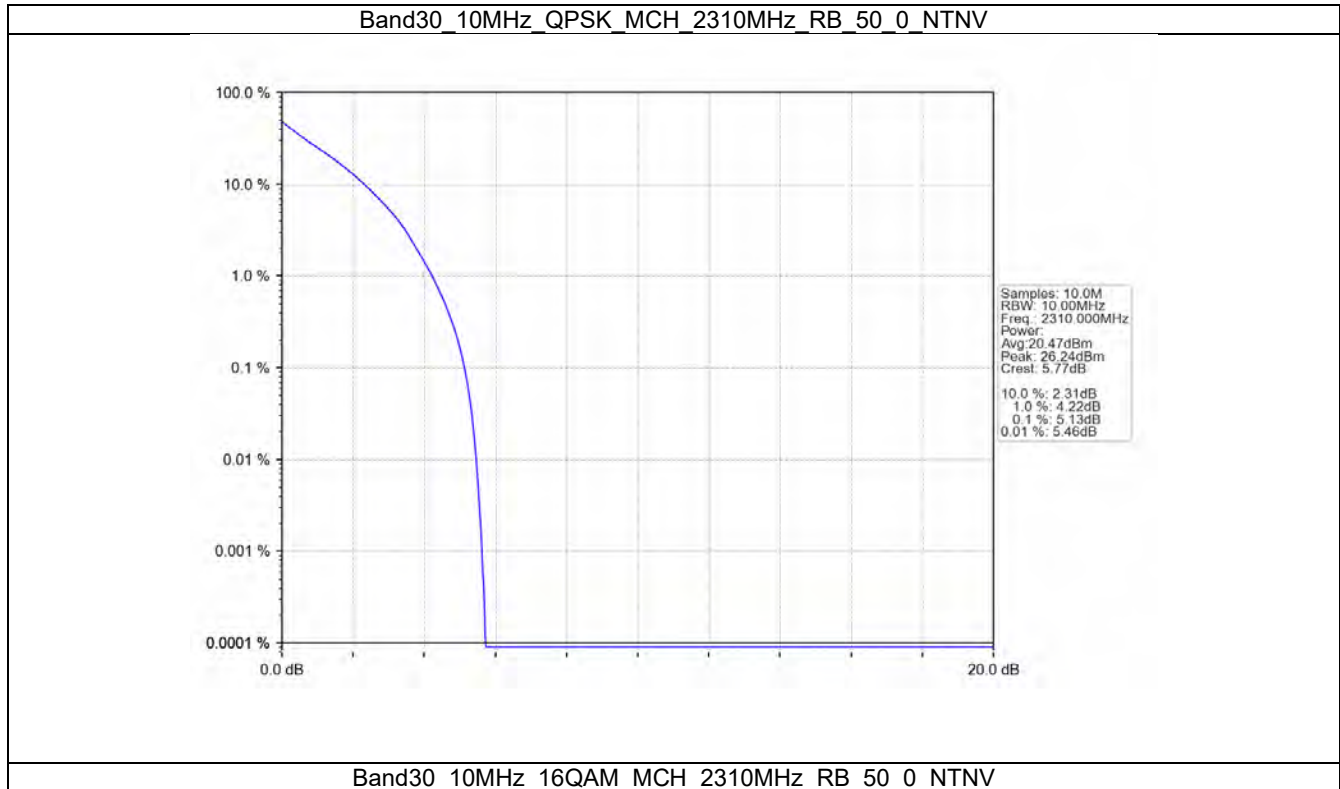
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5.2.2 Test Graph



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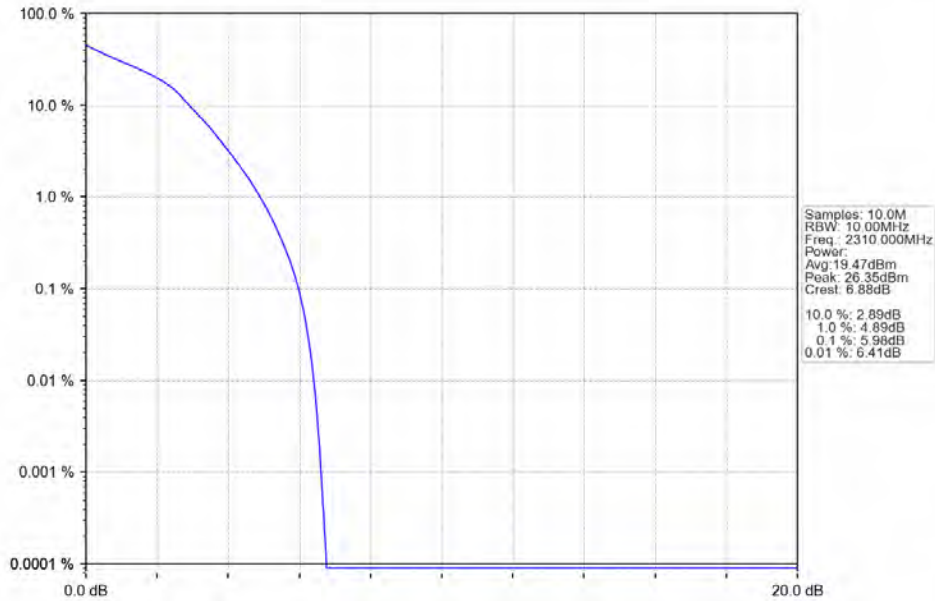
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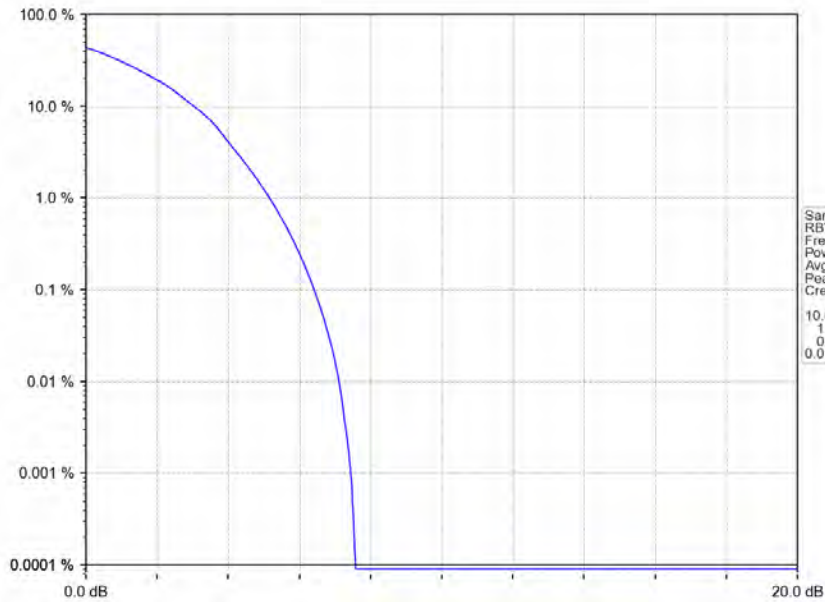
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Report No.: SUCR240400009001

Rev.: 01

Page: 171 of 190

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Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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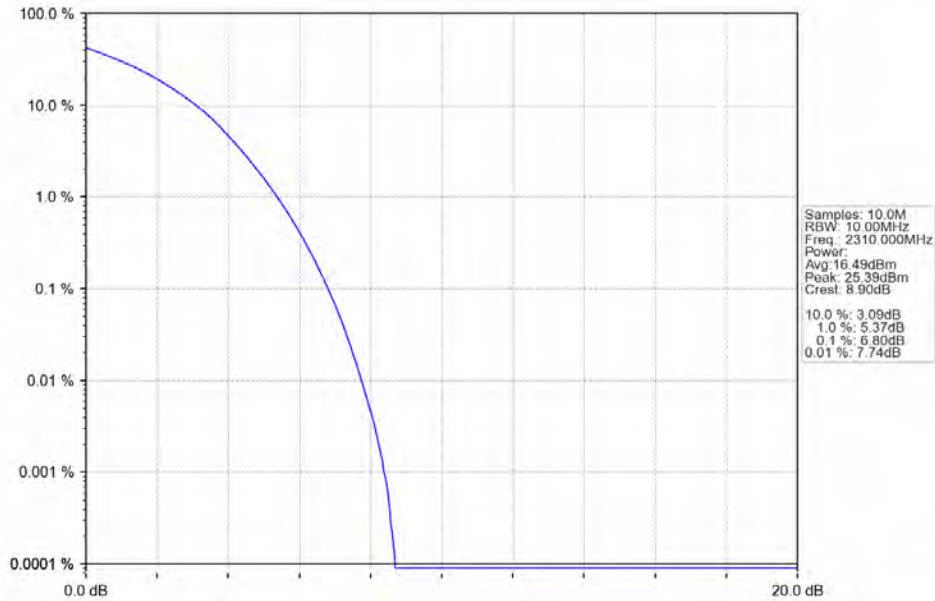
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Report No.: SUCR240400009001

Rev.: 01

Page: 173 of 190

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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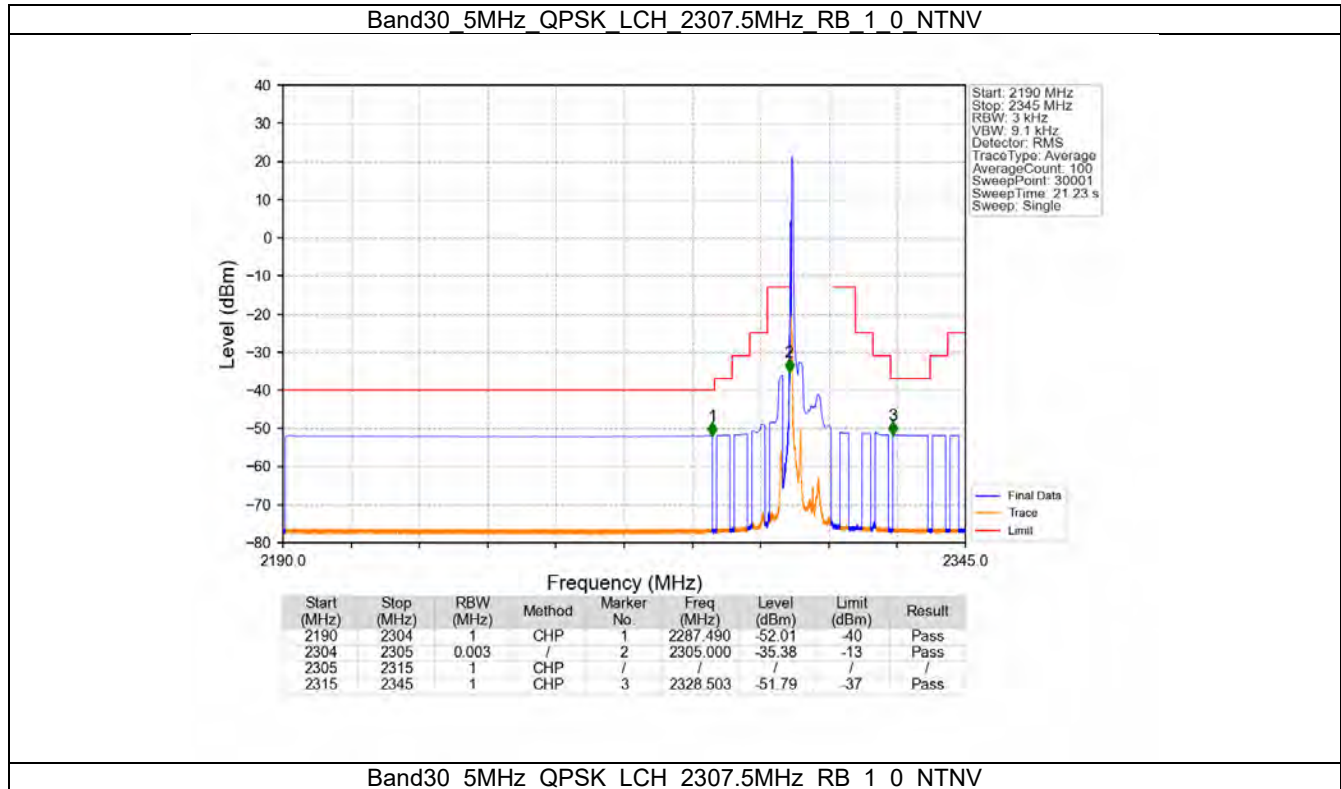
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Page: 174 of 190

6.1.2 Test Graph



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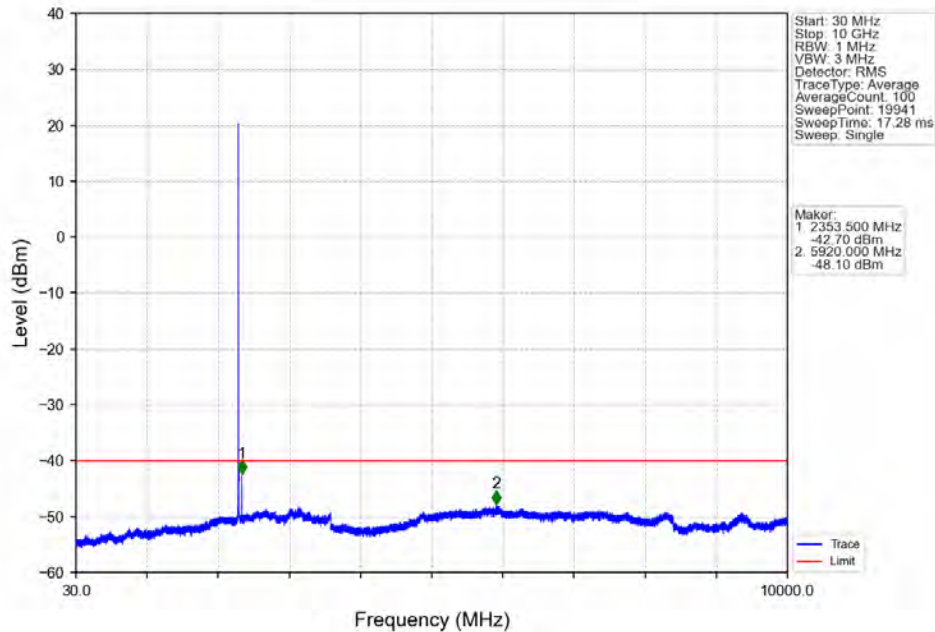
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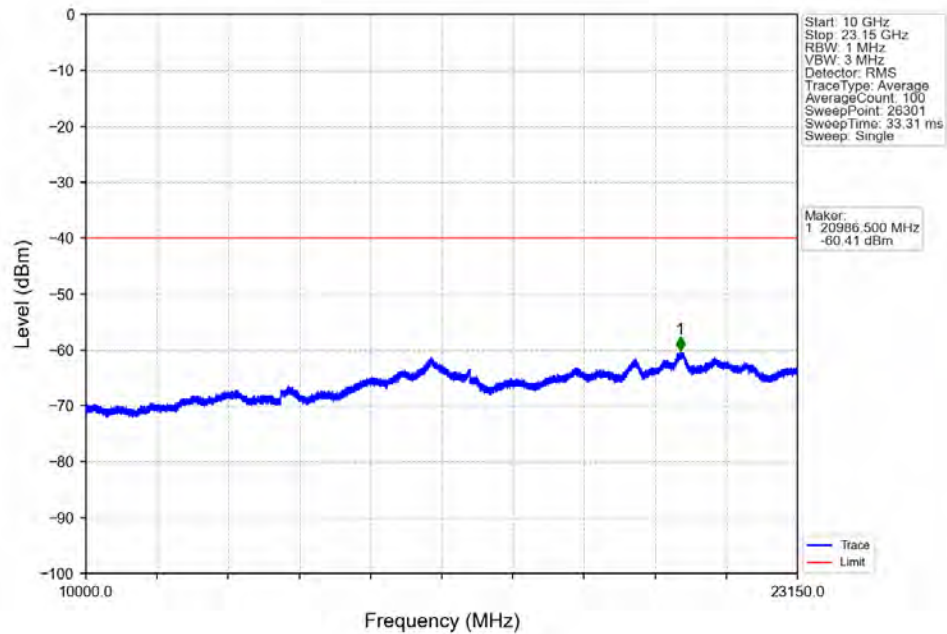
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Rev.: 01

Page: 176 of 190

Band30_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV



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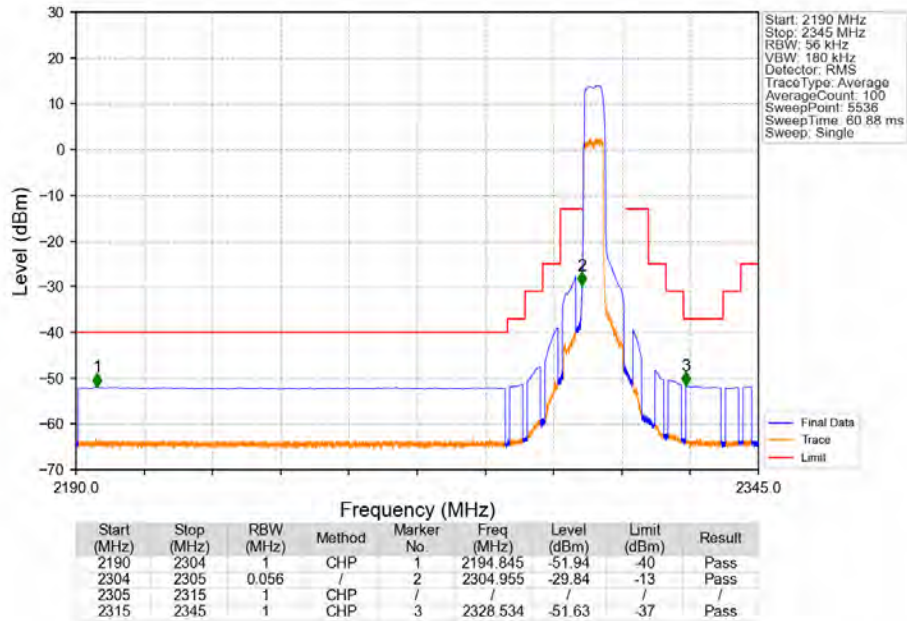
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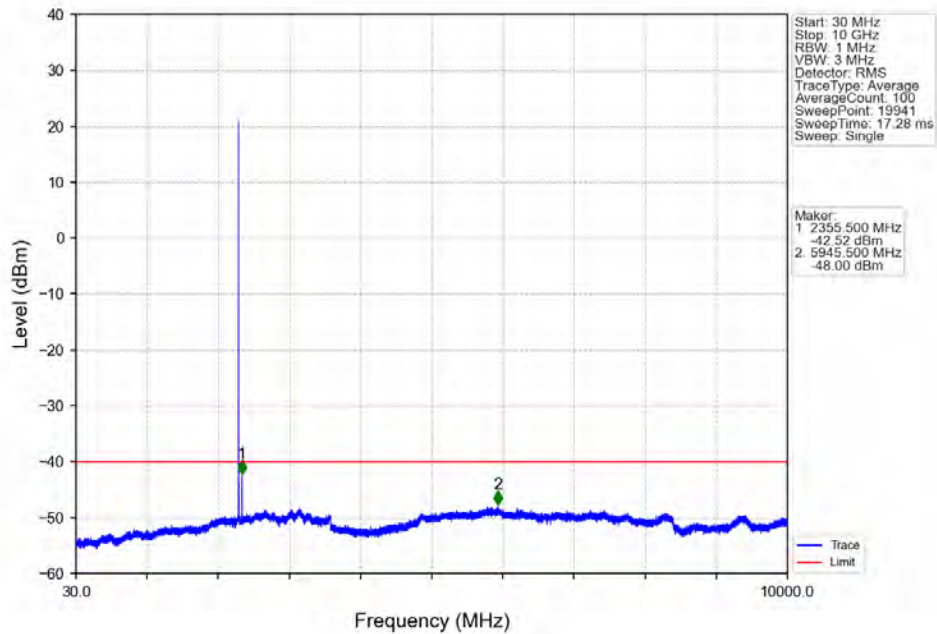
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Rev.: 01

Page: 178 of 190

Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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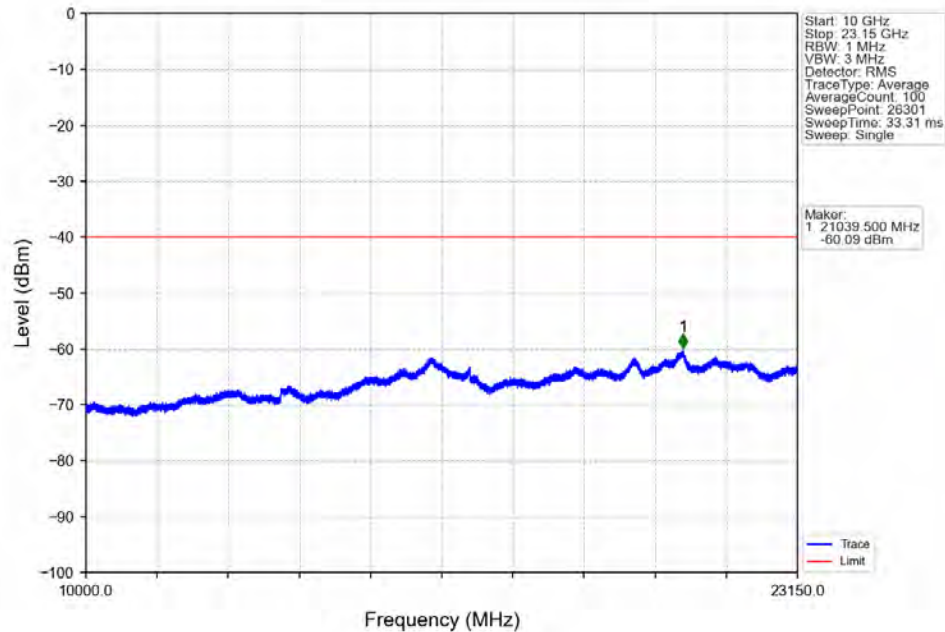
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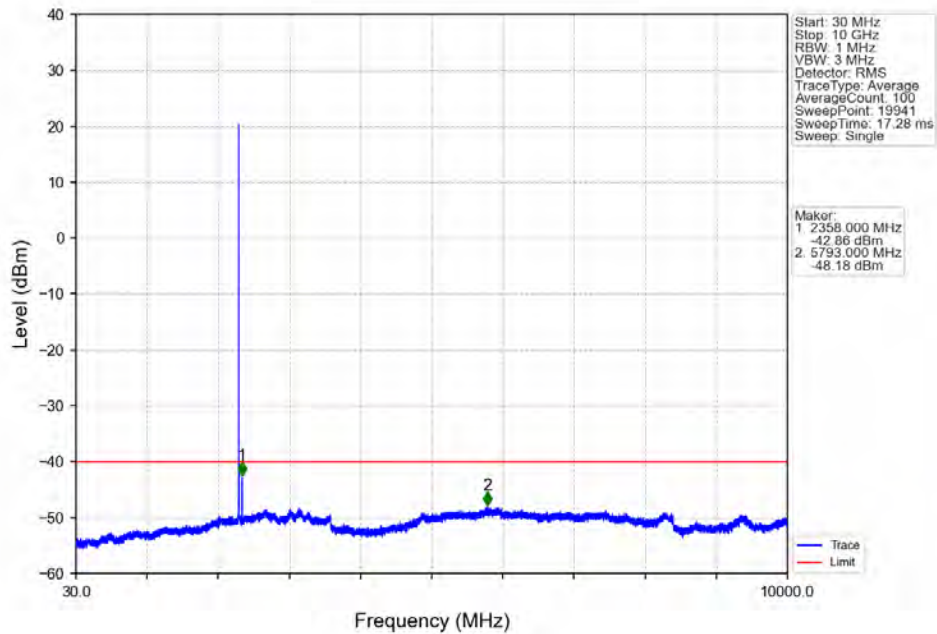
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



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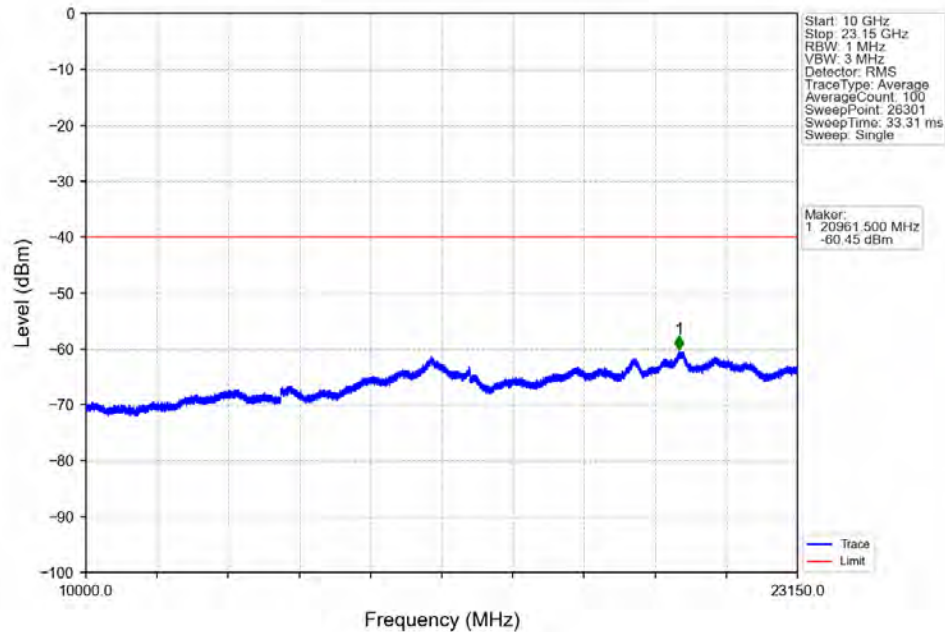
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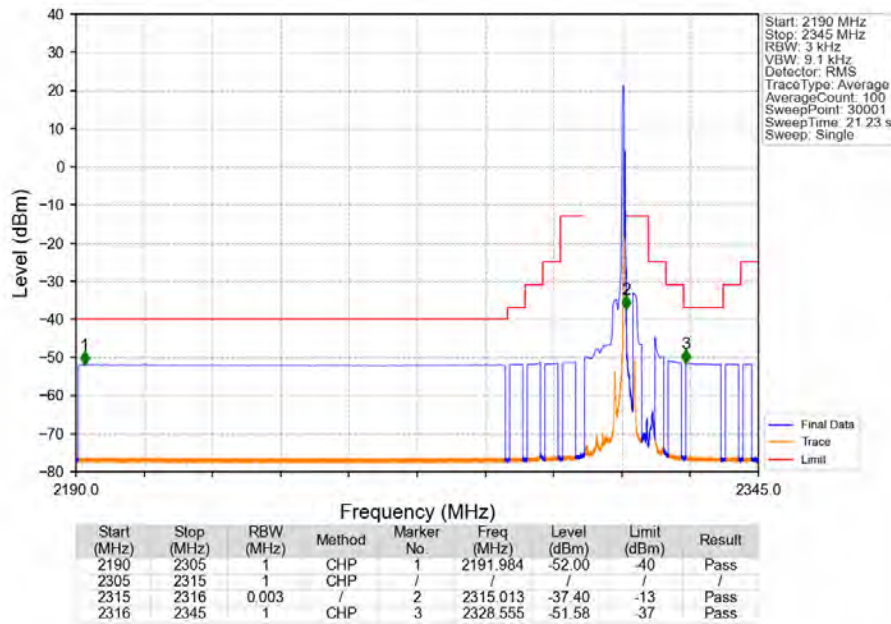
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



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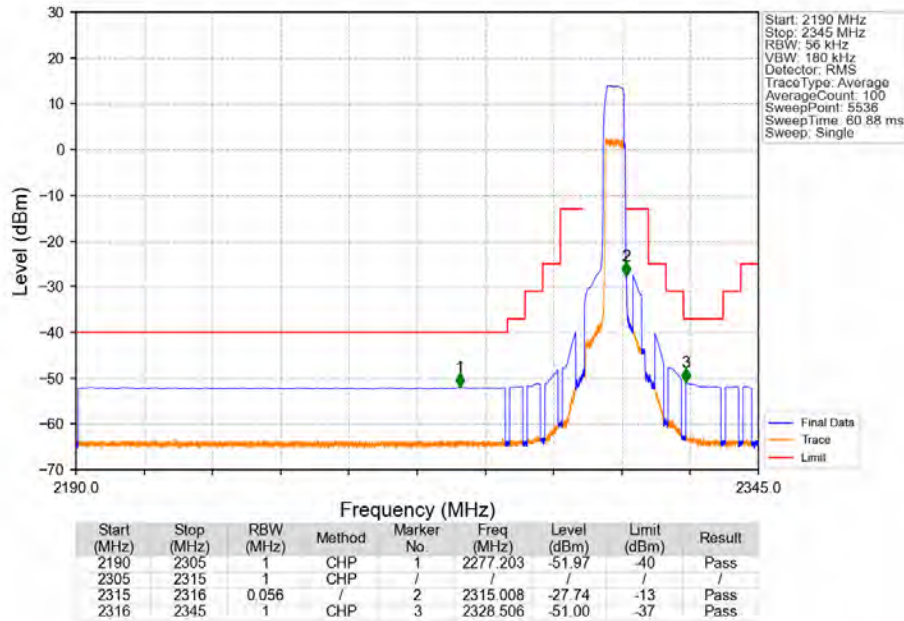
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Rev.: 01

Page: 184 of 190

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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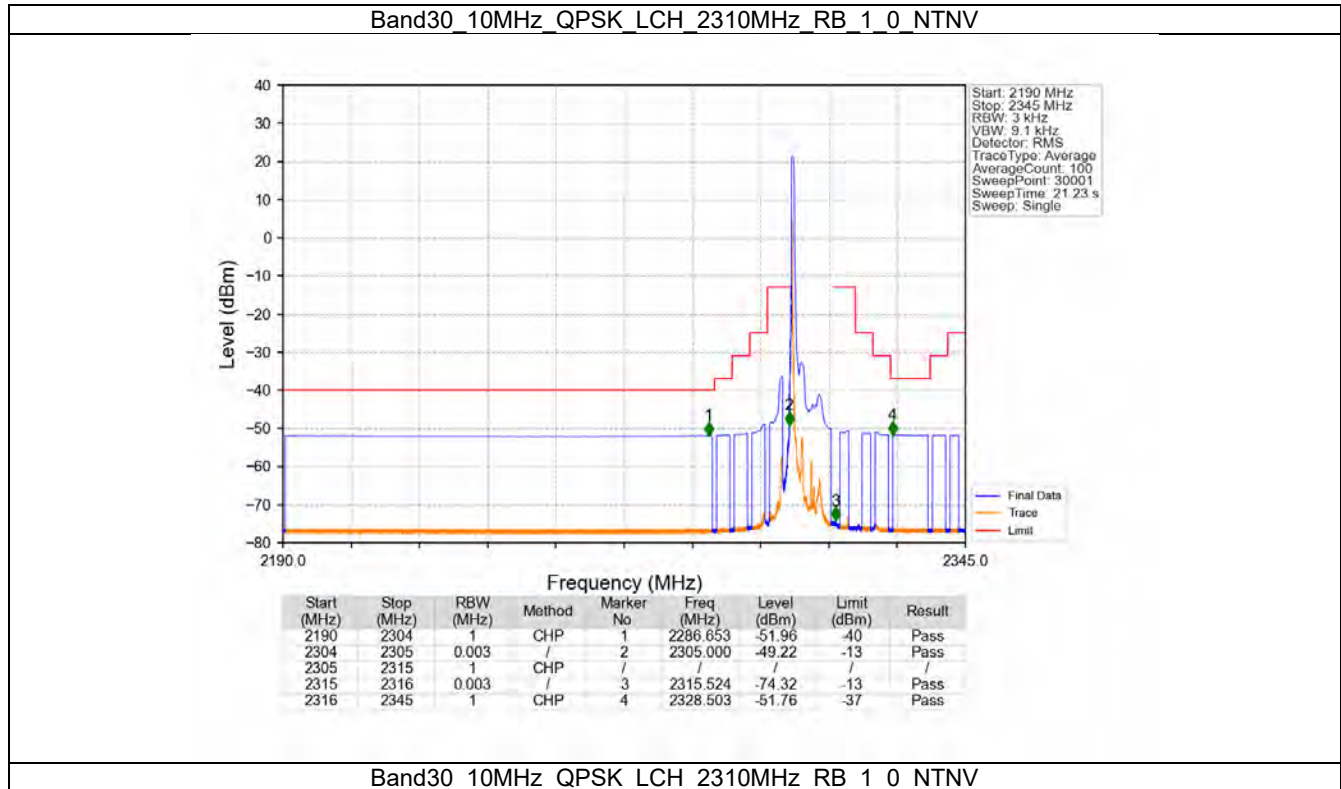
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6.2.2 Test Graph



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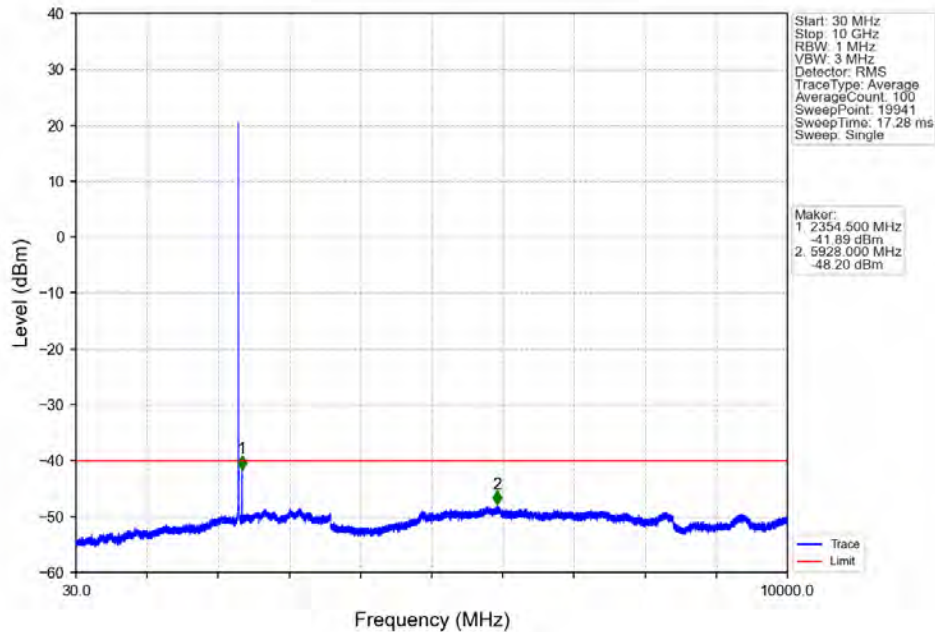
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Report No.: SUCR240400009001

Rev.: 01

Page: 186 of 190



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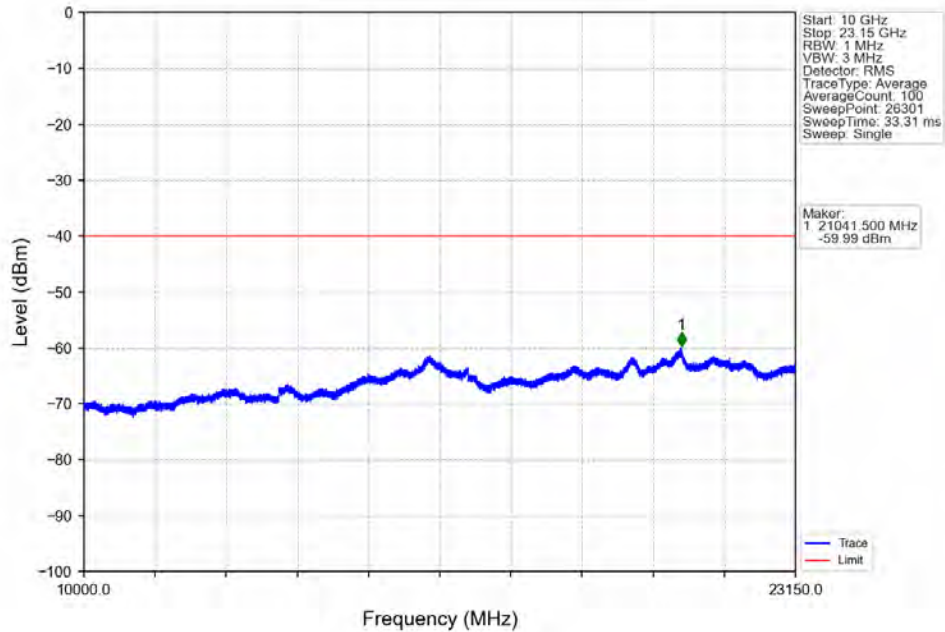
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Rev.: 01

Page: 187 of 190

Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



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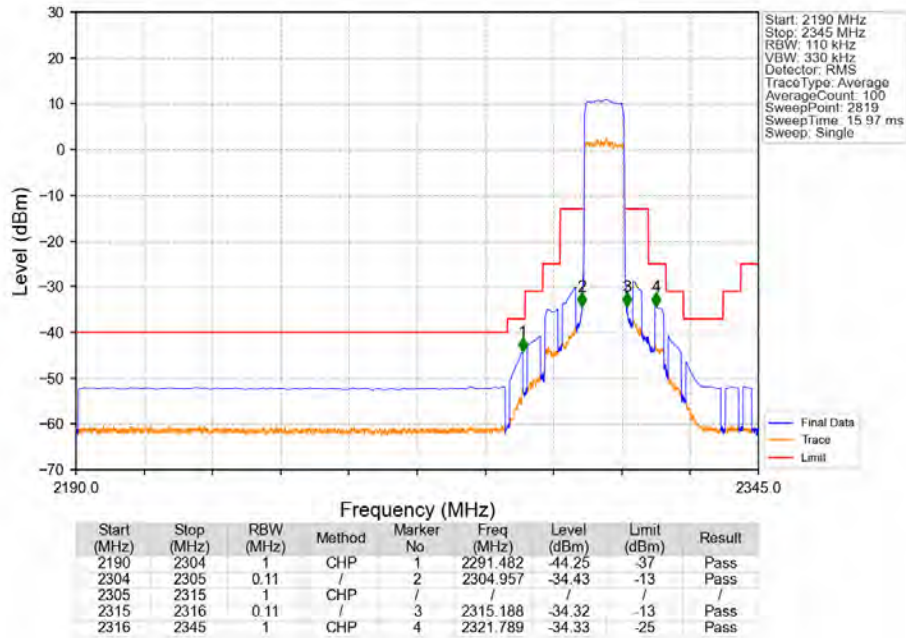
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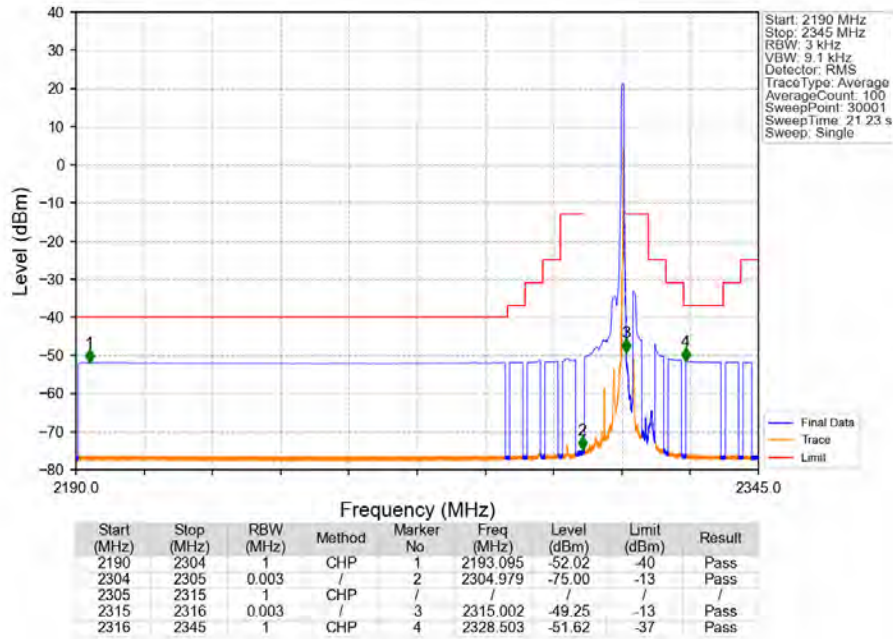
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Rev.: 01

Page: 189 of 190

Band30_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTNV



Band30_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV



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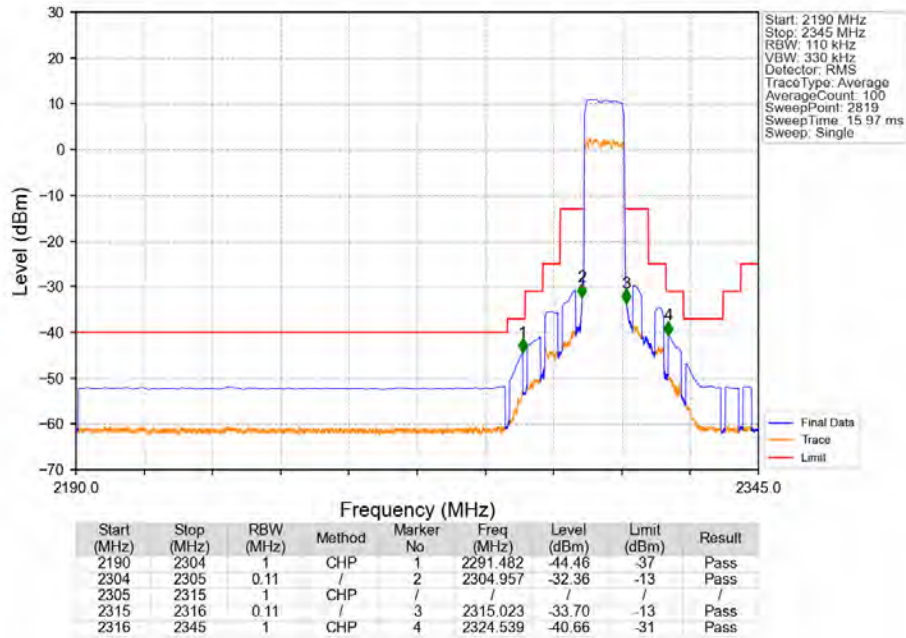
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