Appendix B.13

LTE Band 38

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1. Effective (Isotropic) Radiated Power Output Data

1.1 B38_5MHz_EIRP

1.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	23.16	2	25.16	<=33.01	Pass
			13	23.19	2	25.19	<=33.01	Pass
			24	23.22	2	25.22	<=33.01	Pass
		12	0	22.23	2	24.23	<=33.01	Pass
			6	22.29	2	24.29	<=33.01	Pass
			13	22.26	2	24.26	<=33.01	Pass
		25	0	22.23	2	24.23	<=33.01	Pass
	2595	1	0	21.29	2	23.29	<=33.01	Pass
			13	21.26	2	23.26	<=33.01	Pass
			24	21.31	2	23.31	<=33.01	Pass
		12	0	21.22	2	23.22	<=33.01	Pass
			6	20.85	2	22.85	<=33.01	Pass
			13	21.52	2	23.52	<=33.01	Pass
		25	0	21.51	2	23.51	<=33.01	Pass
	2617.5	1	0	21.48	2	23.48	<=33.01	Pass
			13	21.50	2	23.5	<=33.01	Pass
			24	21.37	2	23.37	<=33.01	Pass
		12	0	21.46	2	23.46	<=33.01	Pass
			6	21.46	2	23.46	<=33.01	Pass
			13	21.31	2	23.31	<=33.01	Pass
		25	0	21.08	2	23.08	<=33.01	Pass
16QAM	2572.5	1	0	22.51	2	24.51	<=33.01	Pass
			13	22.43	2	24.43	<=33.01	Pass
			24	22.55	2	24.55	<=33.01	Pass
		12	0	21.20	2	23.2	<=33.01	Pass
			6	21.25	2	23.25	<=33.01	Pass
			13	21.20	2	23.2	<=33.01	Pass
		25	0	21.21	2	23.21	<=33.01	Pass
	2595	1	0	20.90	2	22.9	<=33.01	Pass
			13	20.88	2	22.88	<=33.01	Pass
			24	20.86	2	22.86	<=33.01	Pass
		12	0	21.54	2	23.54	<=33.01	Pass
			6	21.19	2	23.19	<=33.01	Pass
			13	20.85	2	22.85	<=33.01	Pass
		25	0	21.19	2	23.19	<=33.01	Pass
	2617.5	1	0	20.99	2	22.99	<=33.01	Pass
			13	21.45	2	23.45	<=33.01	Pass

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

			24	21.01	2	23.01	<=33.01	Pass
		12	0	21.05	2	23.05	<=33.01	Pass
			6	21.50	2	23.5	<=33.01	Pass
			13	21.33	2	23.33	<=33.01	Pass
		25	0	21.01	2	23.01	<=33.01	Pass
64QAM	2572.5	1	0	20.98	2	22.98	<=33.01	Pass
			13	21.42	2	23.42	<=33.01	Pass
			24	21.39	2	23.39	<=33.01	Pass
		12	0	20.39	2	22.39	<=33.01	Pass
			6	20.23	2	22.23	<=33.01	Pass
			13	20.24	2	22.24	<=33.01	Pass
		25	0	20.29	2	22.29	<=33.01	Pass
	2595	1	0	21.20	2	23.2	<=33.01	Pass
			13	21.70	2	23.7	<=33.01	Pass
			24	21.71	2	23.71	<=33.01	Pass
		12	0	20.91	2	22.91	<=33.01	Pass
			6	21.55	2	23.55	<=33.01	Pass
			13	20.90	2	22.9	<=33.01	Pass
		25	0	21.19	2	23.19	<=33.01	Pass
	2617.5	1	0	21.07	2	23.07	<=33.01	Pass
			13	21.07	2	23.07	<=33.01	Pass
			24	21.49	2	23.49	<=33.01	Pass
		12	0	21.06	2	23.06	<=33.01	Pass
			6	21.47	2	23.47	<=33.01	Pass
			13	21.40	2	23.4	<=33.01	Pass
		25	0	21.52	2	23.52	<=33.01	Pass
256QAM	2572.5	1	0	18.33	2	20.33	<=33.01	Pass
			13	18.13	2	20.13	<=33.01	Pass
			24	18.35	2	20.35	<=33.01	Pass
		12	0	18.23	2	20.23	<=33.01	Pass
			6	18.28	2	20.28	<=33.01	Pass
			13	18.27	2	20.27	<=33.01	Pass
		25	0	18.35	2	20.35	<=33.01	Pass
	2595	1	0	18.26	2	20.26	<=33.01	Pass
			13	18.34	2	20.34	<=33.01	Pass
			24	18.20	2	20.2	<=33.01	Pass
		12	0	18.22	2	20.22	<=33.01	Pass
			6	18.28	2	20.28	<=33.01	Pass
			13	18.13	2	20.13	<=33.01	Pass
		25	0	18.23	2	20.23	<=33.01	Pass
	2617.5	1	0	17.98	2	19.98	<=33.01	Pass
			13	18.47	2	20.47	<=33.01	Pass
			24	18.45	2	20.45	<=33.01	Pass
		12	0	18.19	2	20.19	<=33.01	Pass
			6	18.12	2	20.12	<=33.01	Pass
			13	18.28	2	20.28	<=33.01	Pass
		25	0	18.28	2	20.28	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

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1.2 B38_10MHz_EIRP

1.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	23.12	2	25.12	<=33.01	Pass
			25	23.14	2	25.14	<=33.01	Pass
			49	23.12	2	25.12	<=33.01	Pass
		25	0	22.24	2	24.24	<=33.01	Pass
			13	22.25	2	24.25	<=33.01	Pass
			25	22.21	2	24.21	<=33.01	Pass
		50	0	22.25	2	24.25	<=33.01	Pass
	2595	1	0	21.60	2	23.6	<=33.01	Pass
			25	20.93	2	22.93	<=33.01	Pass
			49	20.94	2	22.94	<=33.01	Pass
		25	0	21.43	2	23.43	<=33.01	Pass
			13	21.50	2	23.5	<=33.01	Pass
			25	20.96	2	22.96	<=33.01	Pass
		50	0	20.95	2	22.95	<=33.01	Pass
	2615	1	0	20.77	2	22.77	<=33.01	Pass
			25	20.81	2	22.81	<=33.01	Pass
			49	21.18	2	23.18	<=33.01	Pass
		25	0	21.22	2	23.22	<=33.01	Pass
			13	20.76	2	22.76	<=33.01	Pass
			25	21.51	2	23.51	<=33.01	Pass
		50	0	21.32	2	23.32	<=33.01	Pass
16QAM	2575	1	0	22.48	2	24.48	<=33.01	Pass
			25	22.40	2	24.4	<=33.01	Pass
			49	22.29	2	24.29	<=33.01	Pass
		25	0	21.28	2	23.28	<=33.01	Pass
			13	21.26	2	23.26	<=33.01	Pass
			25	21.30	2	23.3	<=33.01	Pass
		50	0	21.26	2	23.26	<=33.01	Pass
	2595	1	0	21.56	2	23.56	<=33.01	Pass
			25	21.45	2	23.45	<=33.01	Pass
			49	21.52	2	23.52	<=33.01	Pass
		25	0	20.92	2	22.92	<=33.01	Pass
			13	21.57	2	23.57	<=33.01	Pass
			25	21.59	2	23.59	<=33.01	Pass
		50	0	21.58	2	23.58	<=33.01	Pass
	2615	1	0	21.17	2	23.17	<=33.01	Pass
			25	21.18	2	23.18	<=33.01	Pass
			49	20.79	2	22.79	<=33.01	Pass

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		25	0	21.13	2	23.13	<=33.01	Pass
			13	21.32	2	23.32	<=33.01	Pass
			25	21.49	2	23.49	<=33.01	Pass
		50	0	21.50	2	23.5	<=33.01	Pass
64QAM	2575	1	0	21.44	2	23.44	<=33.01	Pass
			25	21.40	2	23.4	<=33.01	Pass
			49	21.28	2	23.28	<=33.01	Pass
		25	0	20.29	2	22.29	<=33.01	Pass
			13	20.29	2	22.29	<=33.01	Pass
			25	20.28	2	22.28	<=33.01	Pass
		50	0	20.25	2	22.25	<=33.01	Pass
	2595	1	0	21.44	2	23.44	<=33.01	Pass
			25	21.51	2	23.51	<=33.01	Pass
			49	21.57	2	23.57	<=33.01	Pass
		25	0	21.58	2	23.58	<=33.01	Pass
			13	21.40	2	23.4	<=33.01	Pass
			25	21.56	2	23.56	<=33.01	Pass
		50	0	21.57	2	23.57	<=33.01	Pass
	2615	1	0	21.17	2	23.17	<=33.01	Pass
			25	21.31	2	23.31	<=33.01	Pass
			49	20.79	2	22.79	<=33.01	Pass
		25	0	21.32	2	23.32	<=33.01	Pass
			13	21.31	2	23.31	<=33.01	Pass
			25	20.77	2	22.77	<=33.01	Pass
		50	0	21.53	2	23.53	<=33.01	Pass
256QAM	2575	1	0	18.34	2	20.34	<=33.01	Pass
			25	18.30	2	20.3	<=33.01	Pass
			49	18.36	2	20.36	<=33.01	Pass
		25	0	18.39	2	20.39	<=33.01	Pass
			13	18.33	2	20.33	<=33.01	Pass
			25	18.37	2	20.37	<=33.01	Pass
		50	0	18.34	2	20.34	<=33.01	Pass
	2595	1	0	17.80	2	19.8	<=33.01	Pass
			25	17.96	2	19.96	<=33.01	Pass
			49	18.17	2	20.17	<=33.01	Pass
		25	0	18.25	2	20.25	<=33.01	Pass
			13	18.26	2	20.26	<=33.01	Pass
			25	18.12	2	20.12	<=33.01	Pass
		50	0	18.24	2	20.24	<=33.01	Pass
	2615	1	0	18.18	2	20.18	<=33.01	Pass
			25	17.77	2	19.77	<=33.01	Pass
			49	18.41	2	20.41	<=33.01	Pass
		25	0	18.20	2	20.2	<=33.01	Pass
			13	18.20	2	20.2	<=33.01	Pass
			25	18.17	2	20.17	<=33.01	Pass
		50	0	18.24	2	20.24	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

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1.3 B38_15MHz_EIRP

1.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	23.12	2	25.12	<=33.01	Pass
			38	23.07	2	25.07	<=33.01	Pass
			74	23.05	2	25.05	<=33.01	Pass
		36	0	22.19	2	24.19	<=33.01	Pass
			18	22.26	2	24.26	<=33.01	Pass
			39	22.13	2	24.13	<=33.01	Pass
		75	0	22.15	2	24.15	<=33.01	Pass
	2595	1	0	21.48	2	23.48	<=33.01	Pass
			38	20.83	2	22.83	<=33.01	Pass
			74	21.35	2	23.35	<=33.01	Pass
		36	0	21.42	2	23.42	<=33.01	Pass
			18	21.50	2	23.5	<=33.01	Pass
			39	21.44	2	23.44	<=33.01	Pass
		75	0	21.33	2	23.33	<=33.01	Pass
	2612.5	1	0	21.18	2	23.18	<=33.01	Pass
			38	20.87	2	22.87	<=33.01	Pass
			74	21.20	2	23.2	<=33.01	Pass
		36	0	21.18	2	23.18	<=33.01	Pass
			18	21.29	2	23.29	<=33.01	Pass
			39	21.17	2	23.17	<=33.01	Pass
		75	0	21.39	2	23.39	<=33.01	Pass
16QAM	2577.5	1	0	22.07	2	24.07	<=33.01	Pass
			38	22.38	2	24.38	<=33.01	Pass
			74	22.22	2	24.22	<=33.01	Pass
		36	0	21.16	2	23.16	<=33.01	Pass
			18	21.21	2	23.21	<=33.01	Pass
			39	21.13	2	23.13	<=33.01	Pass
		75	0	21.21	2	23.21	<=33.01	Pass
	2595	1	0	20.81	2	22.81	<=33.01	Pass
			38	20.82	2	22.82	<=33.01	Pass
			74	20.82	2	22.82	<=33.01	Pass
		36	0	21.48	2	23.48	<=33.01	Pass
			18	20.82	2	22.82	<=33.01	Pass
			39	21.31	2	23.31	<=33.01	Pass
		75	0	21.35	2	23.35	<=33.01	Pass
	2612.5	1	0	21.38	2	23.38	<=33.01	Pass
			38	21.47	2	23.47	<=33.01	Pass
			74	20.83	2	22.83	<=33.01	Pass
		36	0	20.88	2	22.88	<=33.01	Pass
			18	21.21	2	23.21	<=33.01	Pass

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			39	21.20	2	23.2	<=33.01	Pass
		75	0	21.18	2	23.18	<=33.01	Pass
64QAM	2577.5	1	0	20.73	2	22.73	<=33.01	Pass
			38	21.28	2	23.28	<=33.01	Pass
			74	20.67	2	22.67	<=33.01	Pass
		36	0	20.24	2	22.24	<=33.01	Pass
			18	20.22	2	22.22	<=33.01	Pass
			39	20.14	2	22.14	<=33.01	Pass
		75	0	20.23	2	22.23	<=33.01	Pass
	2595	1	0	21.43	2	23.43	<=33.01	Pass
			38	21.36	2	23.36	<=33.01	Pass
			74	20.83	2	22.83	<=33.01	Pass
		36	0	21.34	2	23.34	<=33.01	Pass
			18	21.53	2	23.53	<=33.01	Pass
			39	21.45	2	23.45	<=33.01	Pass
		75	0	21.33	2	23.33	<=33.01	Pass
	2612.5	1	0	21.21	2	23.21	<=33.01	Pass
			38	20.87	2	22.87	<=33.01	Pass
			74	21.31	2	23.31	<=33.01	Pass
		36	0	21.17	2	23.17	<=33.01	Pass
			18	21.18	2	23.18	<=33.01	Pass
			39	21.28	2	23.28	<=33.01	Pass
		75	0	21.28	2	23.28	<=33.01	Pass
256QAM	2577.5	1	0	18.07	2	20.07	<=33.01	Pass
			38	18.12	2	20.12	<=33.01	Pass
			74	18.18	2	20.18	<=33.01	Pass
		36	0	18.16	2	20.16	<=33.01	Pass
			18	18.22	2	20.22	<=33.01	Pass
			39	18.14	2	20.14	<=33.01	Pass
		75	0	18.16	2	20.16	<=33.01	Pass
	2595	1	0	17.85	2	19.85	<=33.01	Pass
			38	18.37	2	20.37	<=33.01	Pass
			74	17.77	2	19.77	<=33.01	Pass
		36	0	18.08	2	20.08	<=33.01	Pass
			18	18.11	2	20.11	<=33.01	Pass
			39	18.12	2	20.12	<=33.01	Pass
		75	0	18.06	2	20.06	<=33.01	Pass
	2612.5	1	0	18.01	2	20.01	<=33.01	Pass
			38	17.90	2	19.9	<=33.01	Pass
			74	17.73	2	19.73	<=33.01	Pass
		36	0	18.02	2	20.02	<=33.01	Pass
			18	18.17	2	20.17	<=33.01	Pass
			39	18.05	2	20.05	<=33.01	Pass
		75	0	18.07	2	20.07	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

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1.4 B38_20MHz_EIRP

1.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	23.21	2	25.21	<=33.01	Pass
			50	23.13	2	25.13	<=33.01	Pass
			99	23.11	2	25.11	<=33.01	Pass
		50	0	22.24	2	24.24	<=33.01	Pass
			25	22.22	2	24.22	<=33.01	Pass
			50	22.16	2	24.16	<=33.01	Pass
		100	0	22.20	2	24.2	<=33.01	Pass
	2595	1	0	21.38	2	23.38	<=33.01	Pass
			50	21.38	2	23.38	<=33.01	Pass
			99	21.40	2	23.4	<=33.01	Pass
		50	0	21.37	2	23.37	<=33.01	Pass
			25	20.79	2	22.79	<=33.01	Pass
			50	21.07	2	23.07	<=33.01	Pass
		100	0	20.76	2	22.76	<=33.01	Pass
	2610	1	0	20.67	2	22.67	<=33.01	Pass
			50	21.23	2	23.23	<=33.01	Pass
			99	21.22	2	23.22	<=33.01	Pass
		50	0	20.66	2	22.66	<=33.01	Pass
			25	21.13	2	23.13	<=33.01	Pass
			50	21.12	2	23.12	<=33.01	Pass
		100	0	21.13	2	23.13	<=33.01	Pass
16QAM	2580	1	0	22.44	2	24.44	<=33.01	Pass
			50	22.37	2	24.37	<=33.01	Pass
			99	22.15	2	24.15	<=33.01	Pass
		50	0	21.23	2	23.23	<=33.01	Pass
			25	21.26	2	23.26	<=33.01	Pass
			50	21.21	2	23.21	<=33.01	Pass
		100	0	21.16	2	23.16	<=33.01	Pass
	2595	1	0	21.37	2	23.37	<=33.01	Pass
			50	21.10	2	23.1	<=33.01	Pass
			99	21.38	2	23.38	<=33.01	Pass
		50	0	21.38	2	23.38	<=33.01	Pass
			25	20.78	2	22.78	<=33.01	Pass
			50	21.37	2	23.37	<=33.01	Pass
		100	0	21.41	2	23.41	<=33.01	Pass
	2610	1	0	21.18	2	23.18	<=33.01	Pass
			50	20.65	2	22.65	<=33.01	Pass
			99	20.69	2	22.69	<=33.01	Pass
		50	0	21.19	2	23.19	<=33.01	Pass
			25	21.24	2	23.24	<=33.01	Pass

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

			50	21.24	2	23.24	<=33.01	Pass
		100	0	21.21	2	23.21	<=33.01	Pass
64QAM	2580	1	0	21.33	2	23.33	<=33.01	Pass
			50	21.37	2	23.37	<=33.01	Pass
			99	21.38	2	23.38	<=33.01	Pass
		50	0	20.28	2	22.28	<=33.01	Pass
			25	20.21	2	22.21	<=33.01	Pass
			50	20.07	2	22.07	<=33.01	Pass
		100	0	20.20	2	22.2	<=33.01	Pass
	2595	1	0	21.38	2	23.38	<=33.01	Pass
			50	21.40	2	23.4	<=33.01	Pass
			99	21.08	2	23.08	<=33.01	Pass
		50	0	21.46	2	23.46	<=33.01	Pass
			25	21.10	2	23.1	<=33.01	Pass
			50	21.05	2	23.05	<=33.01	Pass
		100	0	21.38	2	23.38	<=33.01	Pass
	2610	1	0	21.15	2	23.15	<=33.01	Pass
			50	21.20	2	23.2	<=33.01	Pass
			99	21.19	2	23.19	<=33.01	Pass
		50	0	21.26	2	23.26	<=33.01	Pass
			25	20.73	2	22.73	<=33.01	Pass
			50	21.18	2	23.18	<=33.01	Pass
		100	0	20.72	2	22.72	<=33.01	Pass
256QAM	2580	1	0	18.12	2	20.12	<=33.01	Pass
			50	18.24	2	20.24	<=33.01	Pass
			99	18.30	2	20.3	<=33.01	Pass
		50	0	18.17	2	20.17	<=33.01	Pass
			25	18.17	2	20.17	<=33.01	Pass
			50	18.14	2	20.14	<=33.01	Pass
		100	0	18.20	2	20.2	<=33.01	Pass
	2595	1	0	17.89	2	19.89	<=33.01	Pass
			50	17.96	2	19.96	<=33.01	Pass
			99	18.09	2	20.09	<=33.01	Pass
		50	0	18.12	2	20.12	<=33.01	Pass
			25	18.09	2	20.09	<=33.01	Pass
			50	18.05	2	20.05	<=33.01	Pass
		100	0	18.13	2	20.13	<=33.01	Pass
	2610	1	0	17.94	2	19.94	<=33.01	Pass
			50	17.81	2	19.81	<=33.01	Pass
			99	17.82	2	19.82	<=33.01	Pass
		50	0	18.05	2	20.05	<=33.01	Pass
			25	18.15	2	20.15	<=33.01	Pass
			50	18.00	2	20	<=33.01	Pass
		100	0	18.06	2	20.06	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

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2. Frequency Stability

2.1 B38_5MHz

2.1.1 Test Result

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	20	3.55	0.294	0.0001	/	Pass
					4.0	0.171	0.0001	/	Pass
					4.4	-2.347	-0.0009	/	Pass
				-30	4.0	-2.423	-0.0009	/	Pass
				-20	4.0	0.273	0.0001	/	Pass
				-10	4.0	-2.130	-0.0008	/	Pass
				0	4.0	-3.376	-0.0013	/	Pass
				10	4.0	-3.547	-0.0014	/	Pass
				30	4.0	-2.712	-0.0011	/	Pass
				40	4.0	-5.330	-0.0021	/	Pass
				50	4.0	-2.346	-0.0009	/	Pass
	2595	25	0	20	3.55	2.209	0.0009	/	Pass
					4.0	-3.835	-0.0015	/	Pass
					4.4	0.488	0.0002	/	Pass
				-30	4.0	-2.361	-0.0009	/	Pass
				-20	4.0	-2.637	-0.0010	/	Pass
				-10	4.0	2.079	0.0008	/	Pass
				0	4.0	1.580	0.0006	/	Pass
				10	4.0	-1.459	-0.0006	/	Pass
				30	4.0	2.027	0.0008	/	Pass
				40	4.0	1.668	0.0006	/	Pass
				50	4.0	-3.572	-0.0014	/	Pass
	2617.5	25	0	20	3.55	-4.333	-0.0017	/	Pass
					4.0	1.732	0.0007	/	Pass
					4.4	-4.287	-0.0016	/	Pass
				-30	4.0	-0.049	0.0000	/	Pass
				-20	4.0	-0.293	-0.0001	/	Pass
				-10	4.0	-1.948	-0.0007	/	Pass
				0	4.0	-1.364	-0.0005	/	Pass
				10	4.0	1.082	0.0004	/	Pass
				30	4.0	0.078	0.0000	/	Pass
				40	4.0	-1.662	-0.0006	/	Pass
				50	4.0	-4.935	-0.0019	/	Pass
16QAM	2572.5	25	0	20	3.55	-3.758	-0.0015	/	Pass
					4.0	1.468	0.0006	/	Pass
					4.4	0.728	0.0003	/	Pass
				-30	4.0	-3.317	-0.0013	/	Pass

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				-20	4.0	-0.463	-0.0002	/	Pass
				-10	4.0	-4.377	-0.0017	/	Pass
				0	4.0	-2.638	-0.0010	/	Pass
				10	4.0	-0.530	-0.0002	/	Pass
				30	4.0	1.152	0.0004	/	Pass
				40	4.0	-4.862	-0.0019	/	Pass
				50	4.0	-3.146	-0.0012	/	Pass
	2595	25	0	20	3.55	2.069	0.0008	/	Pass
					4.0	2.224	0.0009	/	Pass
					4.4	-0.211	-0.0001	/	Pass
				-30	4.0	-1.682	-0.0006	/	Pass
				-20	4.0	-1.717	-0.0007	/	Pass
				-10	4.0	-1.728	-0.0007	/	Pass
				0	4.0	-1.831	-0.0007	/	Pass
				10	4.0	2.221	0.0009	/	Pass
				30	4.0	-2.523	-0.0010	/	Pass
				40	4.0	-1.877	-0.0007	/	Pass
				50	4.0	1.229	0.0005	/	Pass
	2617.5	25	0	20	3.55	-4.287	-0.0016	/	Pass
					4.0	-0.419	-0.0002	/	Pass
					4.4	-2.881	-0.0011	/	Pass
				-30	4.0	1.711	0.0007	/	Pass
				-20	4.0	-2.699	-0.0010	/	Pass
				-10	4.0	-1.644	-0.0006	/	Pass
				0	4.0	-1.407	-0.0005	/	Pass
				10	4.0	-3.939	-0.0015	/	Pass
				30	4.0	-3.126	-0.0012	/	Pass
				40	4.0	0.150	0.0001	/	Pass
				50	4.0	0.688	0.0003	/	Pass
64QAM	2572.5	25	0	20	3.55	-0.897	-0.0003	/	Pass
					4.0	-3.323	-0.0013	/	Pass
					4.4	0.682	0.0003	/	Pass
				-30	4.0	1.172	0.0005	/	Pass
				-20	4.0	-3.258	-0.0013	/	Pass
				-10	4.0	-4.904	-0.0019	/	Pass
				0	4.0	-3.416	-0.0013	/	Pass
				10	4.0	-3.426	-0.0013	/	Pass
				30	4.0	0.223	0.0001	/	Pass
				40	4.0	-4.063	-0.0016	/	Pass
				50	4.0	0.610	0.0002	/	Pass
	2595	25	0	20	3.55	-2.376	-0.0009	/	Pass
					4.0	-2.191	-0.0008	/	Pass
					4.4	1.175	0.0005	/	Pass
				-30	4.0	-2.981	-0.0011	/	Pass
				-20	4.0	-2.164	-0.0008	/	Pass
				-10	4.0	2.355	0.0009	/	Pass
				0	4.0	-0.574	-0.0002	/	Pass
				10	4.0	-2.903	-0.0011	/	Pass

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				30	4.0	2.561	0.0010	/	Pass
				40	4.0	-1.276	-0.0005	/	Pass
				50	4.0	2.695	0.0010	/	Pass
	2617.5	25	0	20	3.55	0.898	0.0003	/	Pass
					4.0	-3.695	-0.0014	/	Pass
					4.4	0.692	0.0003	/	Pass
				-30	4.0	-2.549	-0.0010	/	Pass
				-20	4.0	1.090	0.0004	/	Pass
				-10	4.0	2.288	0.0009	/	Pass
				0	4.0	-2.482	-0.0009	/	Pass
				10	4.0	-3.174	-0.0012	/	Pass
				30	4.0	2.134	0.0008	/	Pass
				40	4.0	-1.142	-0.0004	/	Pass
				50	4.0	-1.930	-0.0007	/	Pass
256QAM	2572.5	25	0	20	3.55	1.637	0.0006	/	Pass
					4.0	-2.032	-0.0008	/	Pass
					4.4	-2.855	-0.0011	/	Pass
				-30	4.0	0.809	0.0003	/	Pass
				-20	4.0	-2.567	-0.0010	/	Pass
				-10	4.0	-2.092	-0.0008	/	Pass
				0	4.0	2.456	0.0010	/	Pass
				10	4.0	-1.596	-0.0006	/	Pass
				30	4.0	-1.036	-0.0004	/	Pass
				40	4.0	0.554	0.0002	/	Pass
				50	4.0	-2.888	-0.0011	/	Pass
	2595	25	0	20	3.55	1.557	0.0006	/	Pass
					4.0	-0.098	0.0000	/	Pass
					4.4	-0.317	-0.0001	/	Pass
				-30	4.0	-0.598	-0.0002	/	Pass
				-20	4.0	-2.855	-0.0011	/	Pass
				-10	4.0	1.915	0.0007	/	Pass
				0	4.0	-3.357	-0.0013	/	Pass
				10	4.0	2.476	0.0010	/	Pass
				30	4.0	-1.570	-0.0006	/	Pass
				40	4.0	-1.988	-0.0008	/	Pass
				50	4.0	1.236	0.0005	/	Pass
	2617.5	25	0	20	3.55	1.689	0.0006	/	Pass
					4.0	-1.739	-0.0007	/	Pass
					4.4	1.382	0.0005	/	Pass
				-30	4.0	1.716	0.0007	/	Pass
				-20	4.0	1.126	0.0004	/	Pass
				-10	4.0	-2.628	-0.0010	/	Pass
				0	4.0	1.726	0.0007	/	Pass
				10	4.0	-2.850	-0.0011	/	Pass
				30	4.0	-1.539	-0.0006	/	Pass
				40	4.0	0.486	0.0002	/	Pass
				50	4.0	1.859	0.0007	/	Pass

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2.2 B38_10MHz

2.2.1 Test Result

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2575	50	0	20	3.55	-4.842	-0.0019	/	Pass
					4.0	0.972	0.0004	/	Pass
					4.4	-6.622	-0.0026	/	Pass
				-30	4.0	-1.237	-0.0005	/	Pass
				-20	4.0	0.160	0.0001	/	Pass
				-10	4.0	-5.153	-0.0020	/	Pass
				0	4.0	-0.525	-0.0002	/	Pass
				10	4.0	1.172	0.0005	/	Pass
				30	4.0	1.006	0.0004	/	Pass
				40	4.0	-4.178	-0.0016	/	Pass
				50	4.0	-0.491	-0.0002	/	Pass
	2595	50	0	20	3.55	-0.946	-0.0004	/	Pass
					4.0	-0.723	-0.0003	/	Pass
					4.4	-6.327	-0.0024	/	Pass
				-30	4.0	-0.493	-0.0002	/	Pass
				-20	4.0	-7.005	-0.0027	/	Pass
				-10	4.0	-0.430	-0.0002	/	Pass
				0	4.0	1.279	0.0005	/	Pass
				10	4.0	-6.442	-0.0025	/	Pass
				30	4.0	-5.078	-0.0020	/	Pass
				40	4.0	-0.648	-0.0002	/	Pass
				50	4.0	-5.931	-0.0023	/	Pass
	2615	50	0	20	3.55	-0.930	-0.0004	/	Pass
					4.0	-0.763	-0.0003	/	Pass
					4.4	0.119	0.0000	/	Pass
				-30	4.0	0.460	0.0002	/	Pass
				-20	4.0	-0.650	-0.0002	/	Pass
				-10	4.0	-1.252	-0.0005	/	Pass
				0	4.0	-9.048	-0.0035	/	Pass
				10	4.0	-7.901	-0.0030	/	Pass
				30	4.0	-6.985	-0.0027	/	Pass
				40	4.0	-8.833	-0.0034	/	Pass
				50	4.0	-0.403	-0.0002	/	Pass
16QAM	2575	50	0	20	3.55	0.497	0.0002	/	Pass
					4.0	-7.820	-0.0030	/	Pass
					4.4	-4.688	-0.0018	/	Pass
				-30	4.0	-1.068	-0.0004	/	Pass
				-20	4.0	-6.102	-0.0024	/	Pass
				-10	4.0	-5.888	-0.0023	/	Pass
				0	4.0	-0.128	0.0000	/	Pass

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				10	4.0	0.769	0.0003	/	Pass
				30	4.0	0.524	0.0002	/	Pass
				40	4.0	-4.790	-0.0019	/	Pass
				50	4.0	-5.576	-0.0022	/	Pass
	2595	50	0	20	3.55	0.138	0.0001	/	Pass
					4.0	-6.102	-0.0024	/	Pass
					4.4	-7.430	-0.0029	/	Pass
				-30	4.0	-7.207	-0.0028	/	Pass
				-20	4.0	0.198	0.0001	/	Pass
				-10	4.0	-1.578	-0.0006	/	Pass
				0	4.0	-1.156	-0.0004	/	Pass
				10	4.0	-7.469	-0.0029	/	Pass
				30	4.0	-2.105	-0.0008	/	Pass
				40	4.0	-5.083	-0.0020	/	Pass
				50	4.0	-0.765	-0.0003	/	Pass
	2615	50	0	20	3.55	-1.799	-0.0007	/	Pass
					4.0	-5.778	-0.0022	/	Pass
					4.4	-5.848	-0.0022	/	Pass
				-30	4.0	-1.468	-0.0006	/	Pass
				-20	4.0	-1.548	-0.0006	/	Pass
				-10	4.0	-6.162	-0.0024	/	Pass
				0	4.0	-7.270	-0.0028	/	Pass
				10	4.0	-6.073	-0.0023	/	Pass
				30	4.0	-0.358	-0.0001	/	Pass
				40	4.0	-2.527	-0.0010	/	Pass
				50	4.0	-8.758	-0.0033	/	Pass
64QAM	2575	50	0	20	3.55	0.868	0.0003	/	Pass
					4.0	-1.055	-0.0004	/	Pass
					4.4	-7.184	-0.0028	/	Pass
				-30	4.0	0.731	0.0003	/	Pass
				-20	4.0	-2.661	-0.0010	/	Pass
				-10	4.0	0.521	0.0002	/	Pass
				0	4.0	-0.906	-0.0004	/	Pass
				10	4.0	-0.920	-0.0004	/	Pass
				30	4.0	0.684	0.0003	/	Pass
				40	4.0	-0.488	-0.0002	/	Pass
				50	4.0	-3.990	-0.0015	/	Pass
	2595	50	0	20	3.55	0.964	0.0004	/	Pass
					4.0	-5.512	-0.0021	/	Pass
					4.4	-7.618	-0.0029	/	Pass
				-30	4.0	-5.886	-0.0023	/	Pass
				-20	4.0	-7.704	-0.0030	/	Pass
				-10	4.0	-6.611	-0.0025	/	Pass
				0	4.0	-5.139	-0.0020	/	Pass
				10	4.0	-0.239	-0.0001	/	Pass
				30	4.0	-1.150	-0.0004	/	Pass
				40	4.0	0.033	0.0000	/	Pass
				50	4.0	-0.375	-0.0001	/	Pass

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	2615	50	0	20	3.55	-7.108	-0.0027	/	Pass
					4.0	-6.859	-0.0026	/	Pass
					4.4	-4.948	-0.0019	/	Pass
				-30	4.0	-1.490	-0.0006	/	Pass
				-20	4.0	-7.016	-0.0027	/	Pass
				-10	4.0	-1.943	-0.0007	/	Pass
				0	4.0	-6.836	-0.0026	/	Pass
				10	4.0	-7.372	-0.0028	/	Pass
				30	4.0	-6.785	-0.0026	/	Pass
				40	4.0	-6.867	-0.0026	/	Pass
				50	4.0	-1.530	-0.0006	/	Pass
256QAM	2575	50	0	20	3.55	-6.015	-0.0023	/	Pass
					4.0	-0.842	-0.0003	/	Pass
					4.4	-5.878	-0.0023	/	Pass
				-30	4.0	-5.003	-0.0019	/	Pass
				-20	4.0	-6.526	-0.0025	/	Pass
				-10	4.0	-5.468	-0.0021	/	Pass
				0	4.0	1.143	0.0004	/	Pass
				10	4.0	2.199	0.0009	/	Pass
				30	4.0	0.574	0.0002	/	Pass
				40	4.0	0.956	0.0004	/	Pass
				50	4.0	-1.315	-0.0005	/	Pass
	2595	50	0	20	3.55	-6.702	-0.0026	/	Pass
					4.0	-5.669	-0.0022	/	Pass
					4.4	0.307	0.0001	/	Pass
				-30	4.0	0.254	0.0001	/	Pass
				-20	4.0	-5.994	-0.0023	/	Pass
				-10	4.0	-5.708	-0.0022	/	Pass
				0	4.0	0.340	0.0001	/	Pass
				10	4.0	0.300	0.0001	/	Pass
				30	4.0	0.711	0.0003	/	Pass
				40	4.0	0.068	0.0000	/	Pass
				50	4.0	0.446	0.0002	/	Pass
	2615	50	0	20	3.55	-0.650	-0.0002	/	Pass
					4.0	-5.091	-0.0019	/	Pass
					4.4	-6.467	-0.0025	/	Pass
				-30	4.0	-6.178	-0.0024	/	Pass
				-20	4.0	-7.002	-0.0027	/	Pass
				-10	4.0	-0.657	-0.0003	/	Pass
				0	4.0	-5.072	-0.0019	/	Pass
				10	4.0	0.736	0.0003	/	Pass
				30	4.0	-5.309	-0.0020	/	Pass
				40	4.0	1.099	0.0004	/	Pass
				50	4.0	-0.374	-0.0001	/	Pass

2.3 B38_15MHz

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2.3.1 Test Result

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	20	3.55	-4.644	-0.0018	/	Pass
					4.0	-3.518	-0.0014	/	Pass
					4.4	-0.664	-0.0003	/	Pass
				-30	4.0	-3.590	-0.0014	/	Pass
				-20	4.0	-4.165	-0.0016	/	Pass
				-10	4.0	-1.373	-0.0005	/	Pass
				0	4.0	0.104	0.0000	/	Pass
				10	4.0	-5.872	-0.0023	/	Pass
				30	4.0	-5.032	-0.0020	/	Pass
				40	4.0	-5.929	-0.0023	/	Pass
				50	4.0	-1.674	-0.0006	/	Pass
	2595	75	0	20	3.55	-3.119	-0.0012	/	Pass
					4.0	-2.958	-0.0011	/	Pass
					4.4	-2.899	-0.0011	/	Pass
				-30	4.0	-0.197	-0.0001	/	Pass
				-20	4.0	0.742	0.0003	/	Pass
				-10	4.0	-1.154	-0.0004	/	Pass
				0	4.0	-0.071	0.0000	/	Pass
				10	4.0	-1.095	-0.0004	/	Pass
				30	4.0	1.240	0.0005	/	Pass
				40	4.0	-3.992	-0.0015	/	Pass
				50	4.0	-3.473	-0.0013	/	Pass
	2612.5	75	0	20	3.55	-1.471	-0.0006	/	Pass
					4.0	-0.207	-0.0001	/	Pass
					4.4	-1.411	-0.0005	/	Pass
				-30	4.0	-0.839	-0.0003	/	Pass
				-20	4.0	-4.685	-0.0018	/	Pass
				-10	4.0	-5.456	-0.0021	/	Pass
				0	4.0	-4.156	-0.0016	/	Pass
				10	4.0	-5.220	-0.0020	/	Pass
				30	4.0	-5.079	-0.0019	/	Pass
				40	4.0	-1.188	-0.0005	/	Pass
				50	4.0	-0.572	-0.0002	/	Pass
16QAM	2577.5	75	0	20	3.55	-0.891	-0.0003	/	Pass
					4.0	-4.540	-0.0018	/	Pass
					4.4	-0.891	-0.0003	/	Pass
				-30	4.0	-4.203	-0.0016	/	Pass
				-20	4.0	-3.801	-0.0015	/	Pass
				-10	4.0	-5.505	-0.0021	/	Pass
				0	4.0	-4.137	-0.0016	/	Pass
				10	4.0	-4.101	-0.0016	/	Pass
				30	4.0	-0.682	-0.0003	/	Pass
				40	4.0	-0.273	-0.0001	/	Pass

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				50	4.0	0.438	0.0002	/	Pass
	2595	75	0	20	3.55	-4.343	-0.0017	/	Pass
					4.0	-3.261	-0.0013	/	Pass
					4.4	0.580	0.0002	/	Pass
				-30	4.0	-3.925	-0.0015	/	Pass
				-20	4.0	1.635	0.0006	/	Pass
				-10	4.0	1.392	0.0005	/	Pass
				0	4.0	-2.031	-0.0008	/	Pass
				10	4.0	0.493	0.0002	/	Pass
				30	4.0	-1.074	-0.0004	/	Pass
				40	4.0	-0.117	0.0000	/	Pass
				50	4.0	0.071	0.0000	/	Pass
	2612.5	75	0	20	3.55	-2.008	-0.0008	/	Pass
					4.0	-1.213	-0.0005	/	Pass
					4.4	-5.142	-0.0020	/	Pass
				-30	4.0	-0.064	0.0000	/	Pass
				-20	4.0	-0.130	0.0000	/	Pass
				-10	4.0	-0.233	-0.0001	/	Pass
				0	4.0	-4.714	-0.0018	/	Pass
				10	4.0	-5.357	-0.0021	/	Pass
				30	4.0	-5.723	-0.0022	/	Pass
				40	4.0	-1.118	-0.0004	/	Pass
				50	4.0	-6.072	-0.0023	/	Pass
64QAM	2577.5	75	0	20	3.55	-0.736	-0.0003	/	Pass
					4.0	-2.721	-0.0011	/	Pass
					4.4	-4.595	-0.0018	/	Pass
				-30	4.0	-4.514	-0.0018	/	Pass
				-20	4.0	0.033	0.0000	/	Pass
				-10	4.0	0.644	0.0002	/	Pass
				0	4.0	-2.939	-0.0011	/	Pass
				10	4.0	-5.125	-0.0020	/	Pass
				30	4.0	-1.809	-0.0007	/	Pass
				40	4.0	0.768	0.0003	/	Pass
				50	4.0	-3.673	-0.0014	/	Pass
	2595	75	0	20	3.55	-3.725	-0.0014	/	Pass
					4.0	-0.160	-0.0001	/	Pass
					4.4	0.764	0.0003	/	Pass
				-30	4.0	0.639	0.0002	/	Pass
				-20	4.0	0.604	0.0002	/	Pass
				-10	4.0	1.207	0.0005	/	Pass
				0	4.0	2.391	0.0009	/	Pass
				10	4.0	0.072	0.0000	/	Pass
				30	4.0	-4.298	-0.0017	/	Pass
				40	4.0	-3.942	-0.0015	/	Pass
				50	4.0	-0.387	-0.0001	/	Pass
	2612.5	75	0	20	3.55	-5.426	-0.0021	/	Pass
					4.0	-1.242	-0.0005	/	Pass
					4.4	-4.486	-0.0017	/	Pass

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				-30	4.0	-4.407	-0.0017	/	Pass
				-20	4.0	0.051	0.0000	/	Pass
				-10	4.0	-5.658	-0.0022	/	Pass
				0	4.0	-1.045	-0.0004	/	Pass
				10	4.0	-3.674	-0.0014	/	Pass
				30	4.0	-0.006	0.0000	/	Pass
				40	4.0	-1.205	-0.0005	/	Pass
				50	4.0	-0.454	-0.0002	/	Pass
256QAM	2577.5	75	0	20	3.55	-1.874	-0.0007	/	Pass
					4.0	0.276	0.0001	/	Pass
					4.4	-0.097	0.0000	/	Pass
				-30	4.0	-3.262	-0.0013	/	Pass
				-20	4.0	-0.418	-0.0002	/	Pass
				-10	4.0	-4.299	-0.0017	/	Pass
				0	4.0	0.939	0.0004	/	Pass
				10	4.0	-3.124	-0.0012	/	Pass
				30	4.0	0.496	0.0002	/	Pass
				40	4.0	0.023	0.0000	/	Pass
				50	4.0	-4.247	-0.0016	/	Pass
	2595	75	0	20	3.55	-3.988	-0.0015	/	Pass
					4.0	-2.829	-0.0011	/	Pass
					4.4	-2.653	-0.0010	/	Pass
				-30	4.0	1.174	0.0005	/	Pass
				-20	4.0	-0.682	-0.0003	/	Pass
				-10	4.0	-4.825	-0.0019	/	Pass
				0	4.0	-3.140	-0.0012	/	Pass
				10	4.0	-1.394	-0.0005	/	Pass
				30	4.0	-5.558	-0.0021	/	Pass
				40	4.0	-4.814	-0.0019	/	Pass
				50	4.0	0.215	0.0001	/	Pass
	2612.5	75	0	20	3.55	-5.221	-0.0020	/	Pass
					4.0	0.399	0.0002	/	Pass
					4.4	-4.069	-0.0016	/	Pass
				-30	4.0	-0.515	-0.0002	/	Pass
				-20	4.0	-2.914	-0.0011	/	Pass
				-10	4.0	-5.154	-0.0020	/	Pass
				0	4.0	-0.208	-0.0001	/	Pass
				10	4.0	-3.000	-0.0011	/	Pass
				30	4.0	-0.859	-0.0003	/	Pass
				40	4.0	-0.680	-0.0003	/	Pass
				50	4.0	-0.953	-0.0004	/	Pass

2.4 B38_20MHz

2.4.1 Test Result

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Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	20	3.55	-0.698	-0.0003	/	Pass
					4.0	-5.410	-0.0021	/	Pass
					4.4	-4.598	-0.0018	/	Pass
				-30	4.0	-1.137	-0.0004	/	Pass
				-20	4.0	-5.033	-0.0020	/	Pass
				-10	4.0	-3.474	-0.0013	/	Pass
				0	4.0	-0.835	-0.0003	/	Pass
				10	4.0	-2.809	-0.0011	/	Pass
				30	4.0	-5.595	-0.0022	/	Pass
				40	4.0	-4.995	-0.0019	/	Pass
				50	4.0	0.611	0.0002	/	Pass
	2595	100	0	20	3.55	-4.469	-0.0017	/	Pass
					4.0	-0.571	-0.0002	/	Pass
					4.4	-4.456	-0.0017	/	Pass
				-30	4.0	-3.414	-0.0013	/	Pass
				-20	4.0	-3.676	-0.0014	/	Pass
				-10	4.0	-2.983	-0.0011	/	Pass
				0	4.0	-2.658	-0.0010	/	Pass
				10	4.0	-3.712	-0.0014	/	Pass
				30	4.0	0.759	0.0003	/	Pass
				40	4.0	-0.568	-0.0002	/	Pass
				50	4.0	-3.696	-0.0014	/	Pass
	2610	100	0	20	3.55	-2.589	-0.0010	/	Pass
					4.0	-0.823	-0.0003	/	Pass
					4.4	-0.031	0.0000	/	Pass
				-30	4.0	-4.120	-0.0016	/	Pass
				-20	4.0	0.366	0.0001	/	Pass
				-10	4.0	0.494	0.0002	/	Pass
				0	4.0	1.295	0.0005	/	Pass
				10	4.0	-4.708	-0.0018	/	Pass
				30	4.0	0.991	0.0004	/	Pass
				40	4.0	0.069	0.0000	/	Pass
				50	4.0	-1.049	-0.0004	/	Pass
16QAM	2580	100	0	20	3.55	0.069	0.0000	/	Pass
					4.0	0.559	0.0002	/	Pass
					4.4	-3.299	-0.0013	/	Pass
				-30	4.0	-0.083	0.0000	/	Pass
				-20	4.0	-3.286	-0.0013	/	Pass
				-10	4.0	-0.337	-0.0001	/	Pass
				0	4.0	-0.732	-0.0003	/	Pass
				10	4.0	-3.095	-0.0012	/	Pass
				30	4.0	-0.379	-0.0001	/	Pass
				40	4.0	-0.417	-0.0002	/	Pass
				50	4.0	-1.289	-0.0005	/	Pass
	2595	100	0	20	3.55	0.316	0.0001	/	Pass

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					4.0	-3.841	-0.0015	/	Pass
					4.4	-3.834	-0.0015	/	Pass
				-30	4.0	0.227	0.0001	/	Pass
				-20	4.0	-0.573	-0.0002	/	Pass
				-10	4.0	2.351	0.0009	/	Pass
				0	4.0	1.339	0.0005	/	Pass
				10	4.0	-3.833	-0.0015	/	Pass
				30	4.0	-3.791	-0.0015	/	Pass
				40	4.0	0.946	0.0004	/	Pass
				50	4.0	-3.505	-0.0014	/	Pass
	2610	100	0	20	3.55	-2.758	-0.0011	/	Pass
					4.0	0.305	0.0001	/	Pass
					4.4	-3.521	-0.0013	/	Pass
				-30	4.0	0.021	0.0000	/	Pass
				-20	4.0	0.073	0.0000	/	Pass
				-10	4.0	-3.976	-0.0015	/	Pass
				0	4.0	0.727	0.0003	/	Pass
				10	4.0	-2.275	-0.0009	/	Pass
				30	4.0	-1.342	-0.0005	/	Pass
				40	4.0	-0.440	-0.0002	/	Pass
				50	4.0	-0.431	-0.0002	/	Pass
64QAM	2580	100	0	20	3.55	-4.208	-0.0016	/	Pass
					4.0	0.964	0.0004	/	Pass
					4.4	-0.039	0.0000	/	Pass
				-30	4.0	-4.312	-0.0017	/	Pass
				-20	4.0	2.137	0.0008	/	Pass
				-10	4.0	1.078	0.0004	/	Pass
				0	4.0	0.029	0.0000	/	Pass
				10	4.0	-3.138	-0.0012	/	Pass
				30	4.0	1.317	0.0005	/	Pass
				40	4.0	-0.524	-0.0002	/	Pass
				50	4.0	0.269	0.0001	/	Pass
	2595	100	0	20	3.55	-3.189	-0.0012	/	Pass
					4.0	0.495	0.0002	/	Pass
					4.4	1.810	0.0007	/	Pass
				-30	4.0	-2.870	-0.0011	/	Pass
				-20	4.0	1.108	0.0004	/	Pass
				-10	4.0	-2.830	-0.0011	/	Pass
				0	4.0	-1.648	-0.0006	/	Pass
				10	4.0	-3.044	-0.0012	/	Pass
				30	4.0	0.297	0.0001	/	Pass
				40	4.0	1.469	0.0006	/	Pass
				50	4.0	0.790	0.0003	/	Pass
	2610	100	0	20	3.55	2.037	0.0008	/	Pass
					4.0	-2.885	-0.0011	/	Pass
					4.4	-2.853	-0.0011	/	Pass
				-30	4.0	-3.249	-0.0012	/	Pass
				-20	4.0	0.112	0.0000	/	Pass

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				-10	4.0	-0.191	-0.0001	/	Pass
				0	4.0	-3.939	-0.0015	/	Pass
				10	4.0	-4.018	-0.0015	/	Pass
				30	4.0	1.864	0.0007	/	Pass
				40	4.0	-3.710	-0.0014	/	Pass
				50	4.0	0.610	0.0002	/	Pass
256QAM	2580	100	0	20	3.55	-0.109	0.0000	/	Pass
					4.0	0.507	0.0002	/	Pass
					4.4	-0.617	-0.0002	/	Pass
				-30	4.0	-3.623	-0.0014	/	Pass
				-20	4.0	1.276	0.0005	/	Pass
				-10	4.0	1.523	0.0006	/	Pass
				0	4.0	-4.430	-0.0017	/	Pass
				10	4.0	-3.212	-0.0012	/	Pass
				30	4.0	-3.228	-0.0013	/	Pass
				40	4.0	-4.491	-0.0017	/	Pass
				50	4.0	-4.992	-0.0019	/	Pass
	2595	100	0	20	3.55	0.882	0.0003	/	Pass
					4.0	0.748	0.0003	/	Pass
					4.4	-2.776	-0.0011	/	Pass
				-30	4.0	-0.250	-0.0001	/	Pass
				-20	4.0	-0.166	-0.0001	/	Pass
				-10	4.0	-4.180	-0.0016	/	Pass
				0	4.0	-0.625	-0.0002	/	Pass
				10	4.0	-4.438	-0.0017	/	Pass
				30	4.0	-2.546	-0.0010	/	Pass
				40	4.0	-4.560	-0.0018	/	Pass
				50	4.0	-0.220	-0.0001	/	Pass
	2610	100	0	20	3.55	1.976	0.0008	/	Pass
					4.0	0.213	0.0001	/	Pass
					4.4	0.101	0.0000	/	Pass
				-30	4.0	1.497	0.0006	/	Pass
				-20	4.0	-0.260	-0.0001	/	Pass
				-10	4.0	0.992	0.0004	/	Pass
				0	4.0	1.264	0.0005	/	Pass
				10	4.0	-0.255	-0.0001	/	Pass
				30	4.0	-0.046	0.0000	/	Pass
				40	4.0	-5.367	-0.0021	/	Pass
				50	4.0	0.237	0.0001	/	Pass

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3. 99% & 26dB Bandwidth

3.1 Band38_OBW

3.1.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.556	/	Pass
		2595	25	0	4.555	/	Pass
		2617.5	25	0	4.551	/	Pass
	16QAM	2572.5	25	0	4.581	/	Pass
		2595	25	0	4.552	/	Pass
		2617.5	25	0	4.565	/	Pass
	64QAM	2572.5	25	0	4.564	/	Pass
		2595	25	0	4.545	/	Pass
		2617.5	25	0	4.548	/	Pass
	256QAM	2572.5	25	0	4.585	/	Pass
		2595	25	0	4.567	/	Pass
		2617.5	25	0	4.557	/	Pass
10	QPSK	2575	50	0	9.075	/	Pass
		2595	50	0	9.118	/	Pass
		2615	50	0	9.070	/	Pass
	16QAM	2575	50	0	9.062	/	Pass
		2595	50	0	9.108	/	Pass
		2615	50	0	9.056	/	Pass
	64QAM	2575	50	0	9.046	/	Pass
		2595	50	0	9.097	/	Pass
		2615	50	0	9.059	/	Pass
	256QAM	2575	50	0	9.076	/	Pass
		2595	50	0	9.079	/	Pass
		2615	50	0	9.106	/	Pass
15	QPSK	2577.5	75	0	13.616	/	Pass
		2595	75	0	13.646	/	Pass
		2612.5	75	0	13.617	/	Pass
	16QAM	2577.5	75	0	13.602	/	Pass
		2595	75	0	13.625	/	Pass
		2612.5	75	0	13.596	/	Pass
	64QAM	2577.5	75	0	13.587	/	Pass
		2595	75	0	13.634	/	Pass
		2612.5	75	0	13.621	/	Pass
	256QAM	2577.5	75	0	13.597	/	Pass
		2595	75	0	13.608	/	Pass
		2612.5	75	0	13.601	/	Pass
20	QPSK	2580	100	0	18.110	/	Pass

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		2595	100	0	18.132	/	Pass
		2610	100	0	18.180	/	Pass
	16QAM	2580	100	0	18.094	/	Pass
		2595	100	0	18.125	/	Pass
		2610	100	0	18.150	/	Pass
	64QAM	2580	100	0	18.089	/	Pass
		2595	100	0	18.150	/	Pass
		2610	100	0	18.178	/	Pass
	256QAM	2580	100	0	18.192	/	Pass
		2595	100	0	18.163	/	Pass
		2610	100	0	18.141	/	Pass

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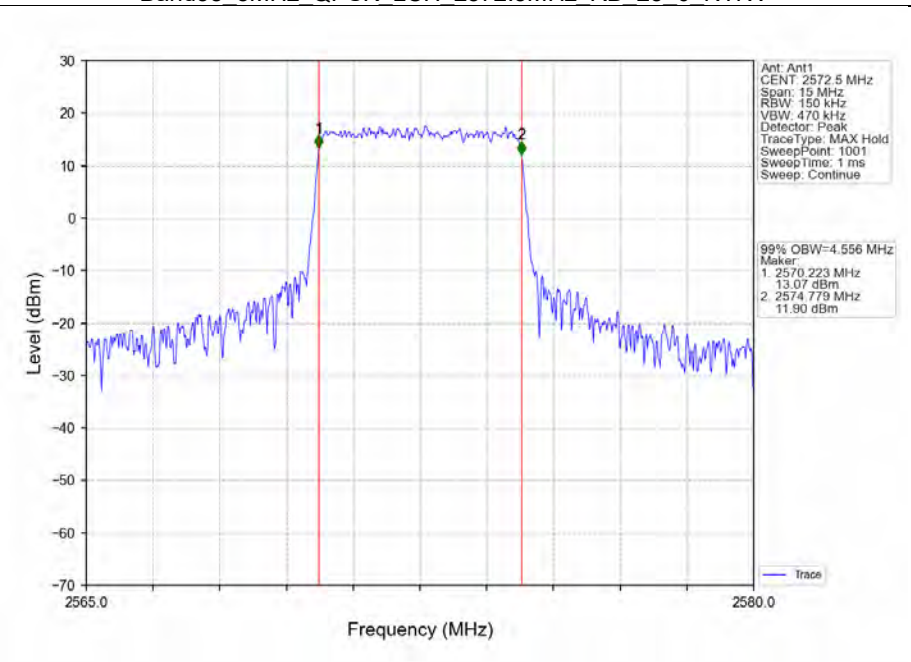
3.1.2 Test Graph

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV

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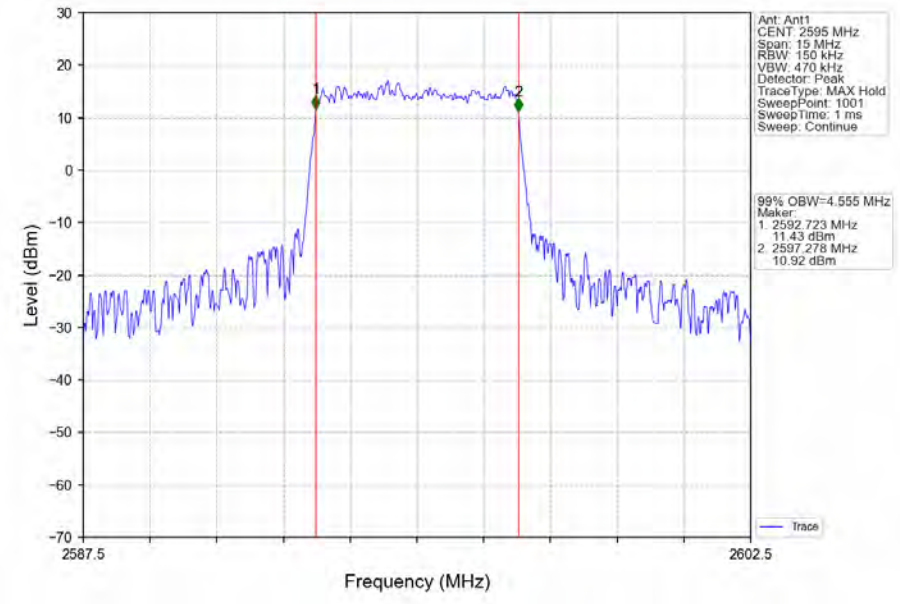

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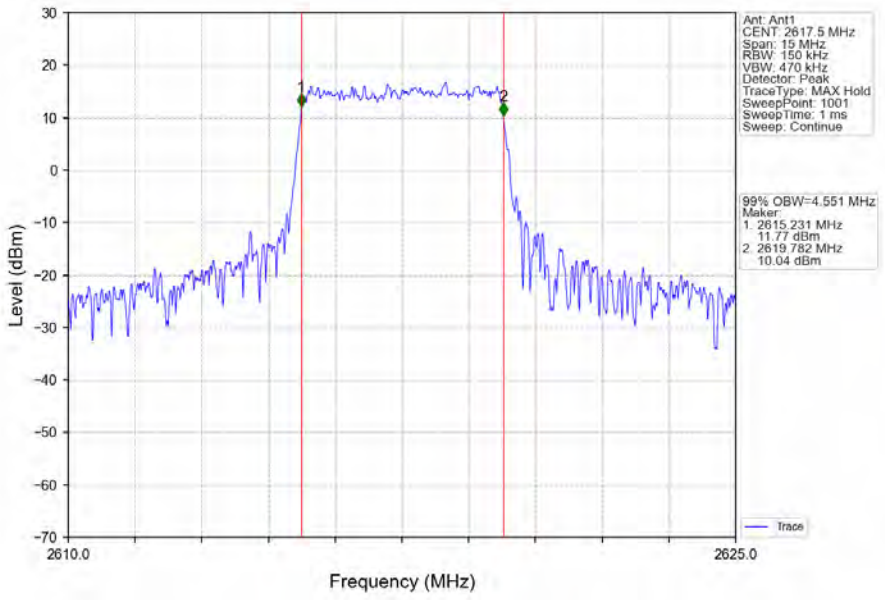
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV

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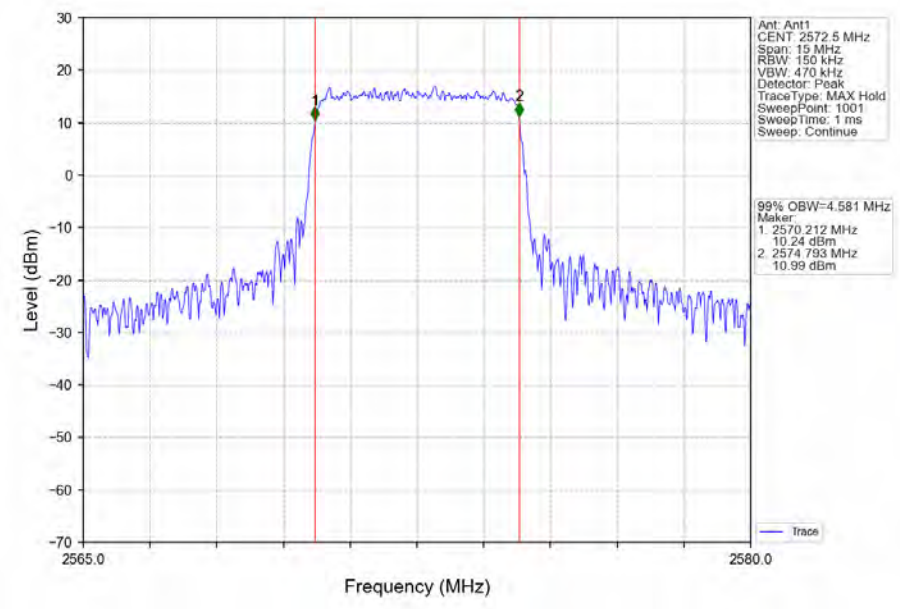

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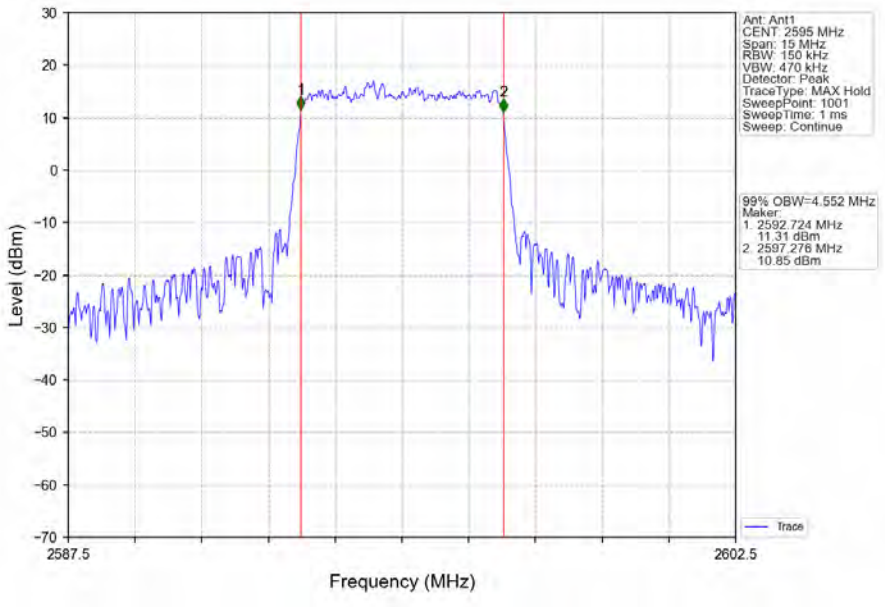
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV

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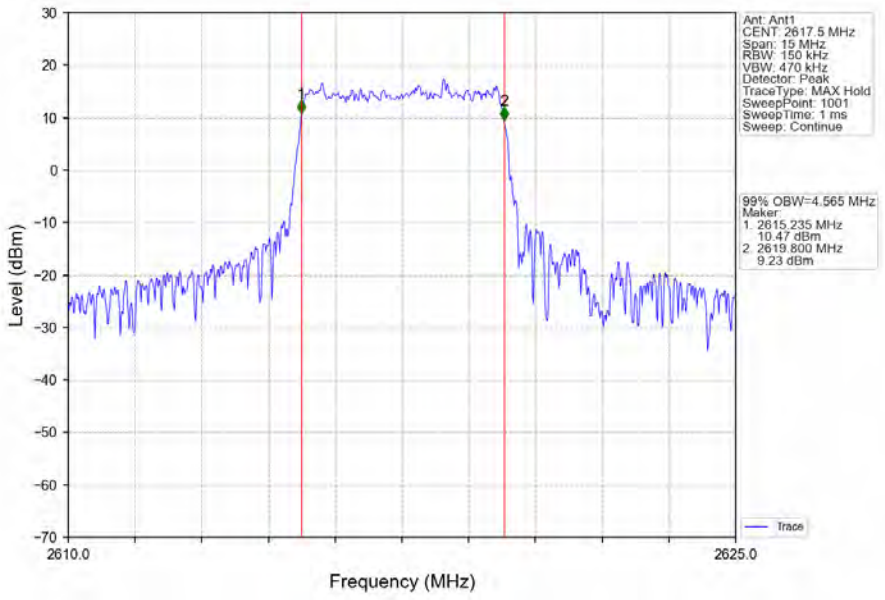

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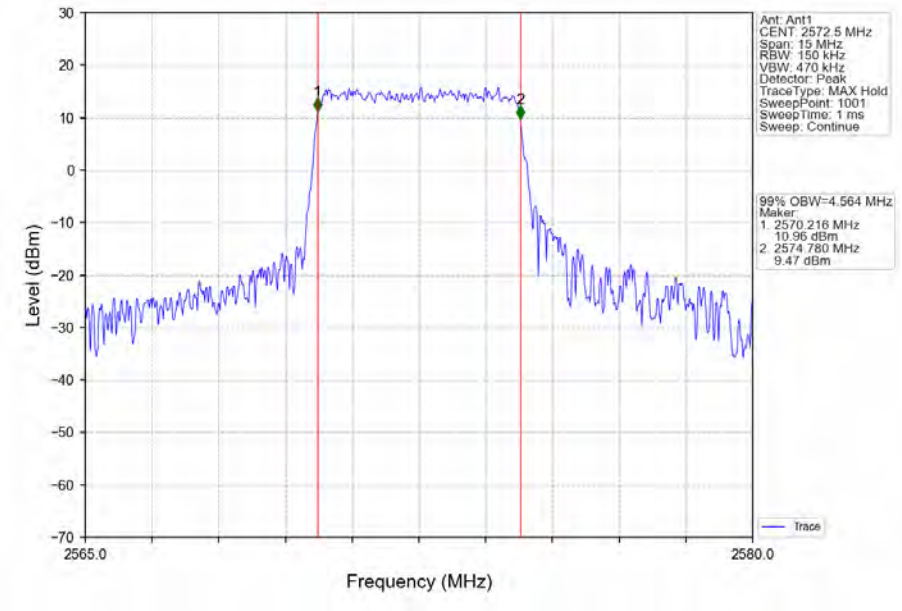
Band38_5MHz_64QAM_LCH_2572.5MHz_RB_25_0_NTNV



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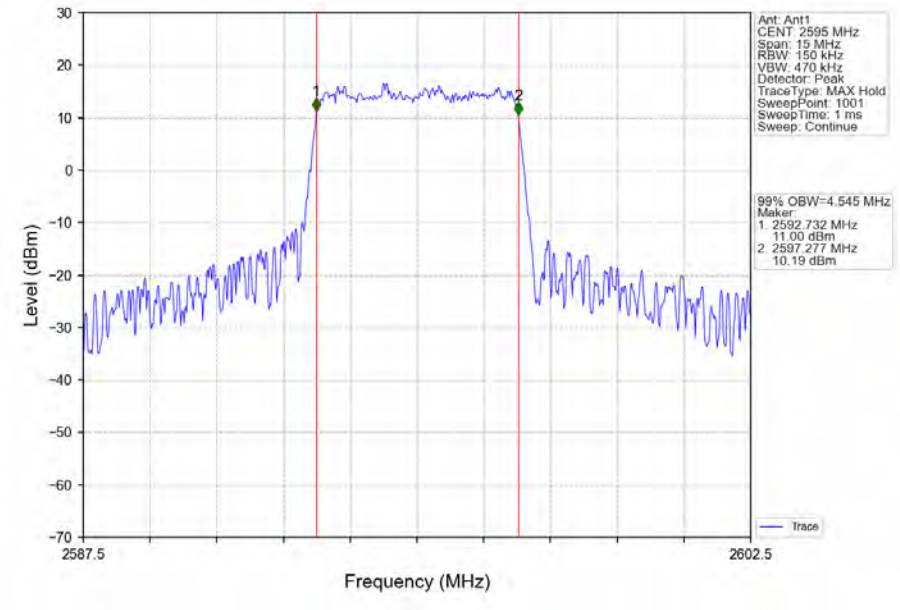

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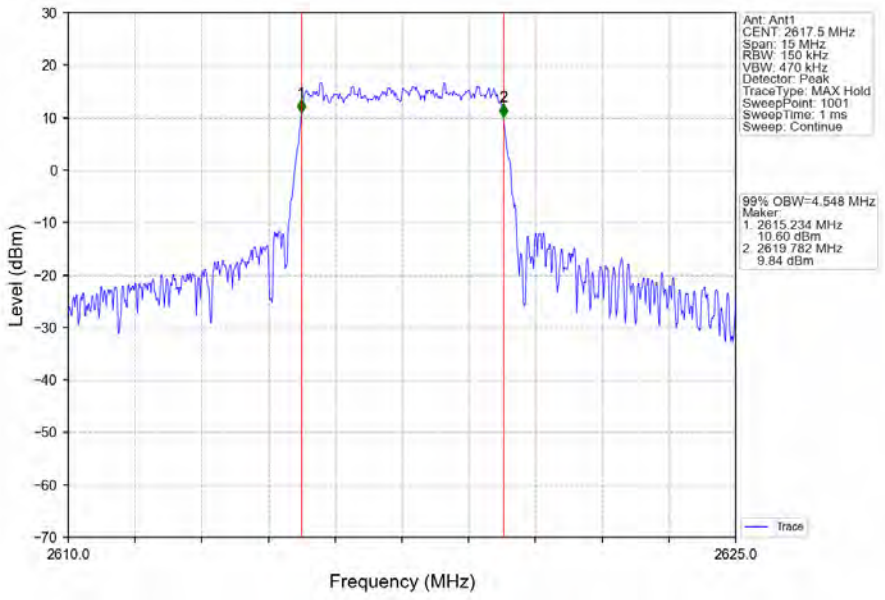
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV



Band38_5MHz_256QAM_LCH_2572.5MHz_RB_25_0_NTNV

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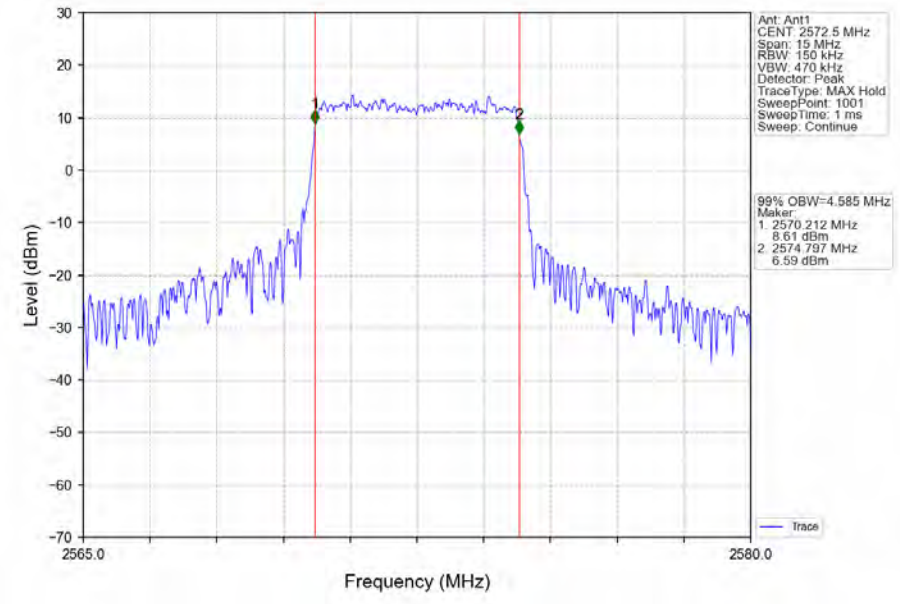

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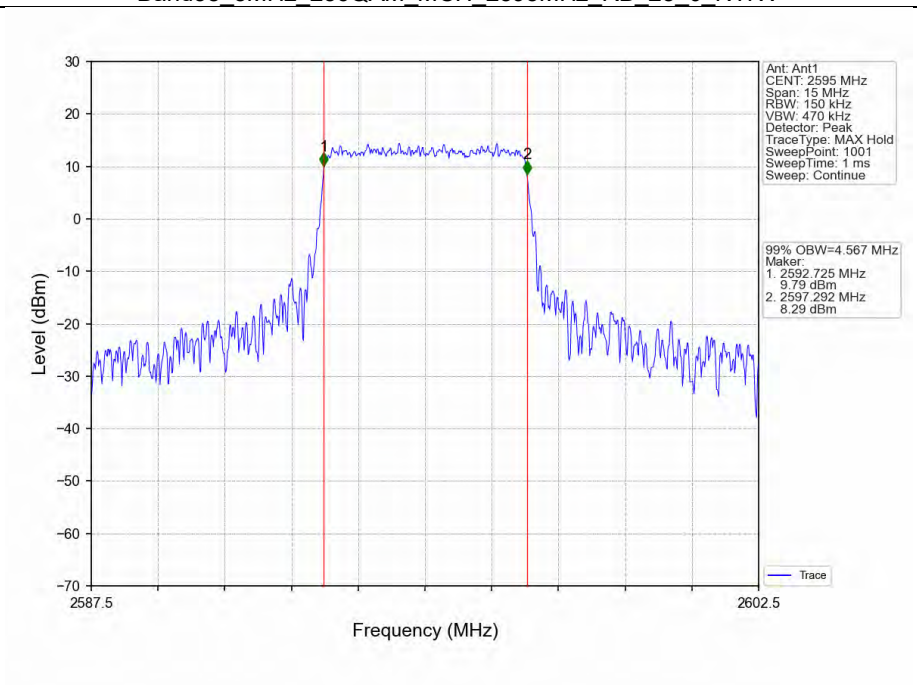

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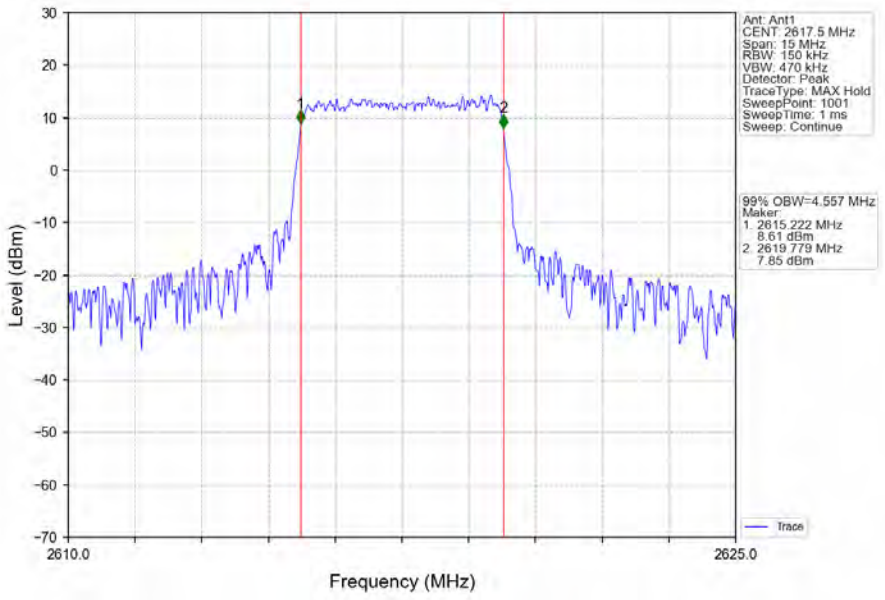

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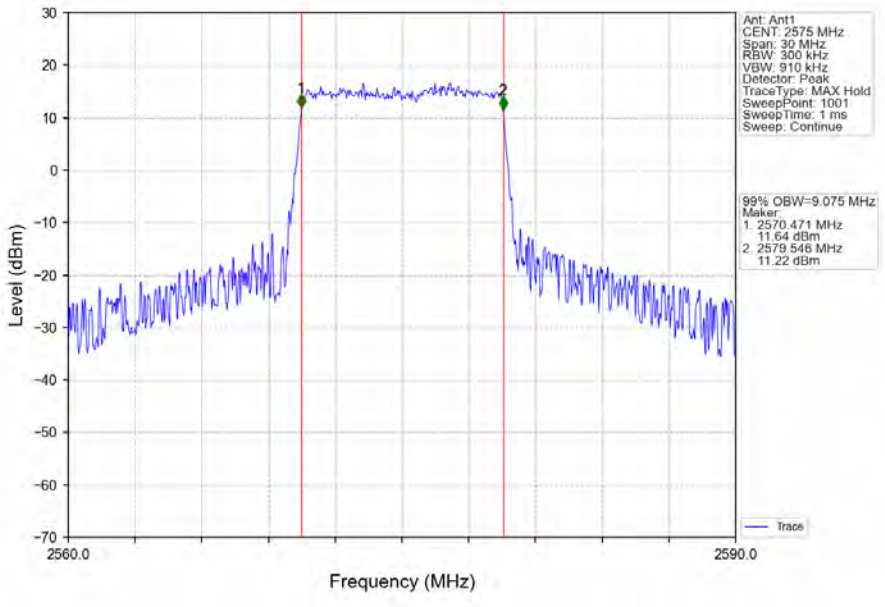
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



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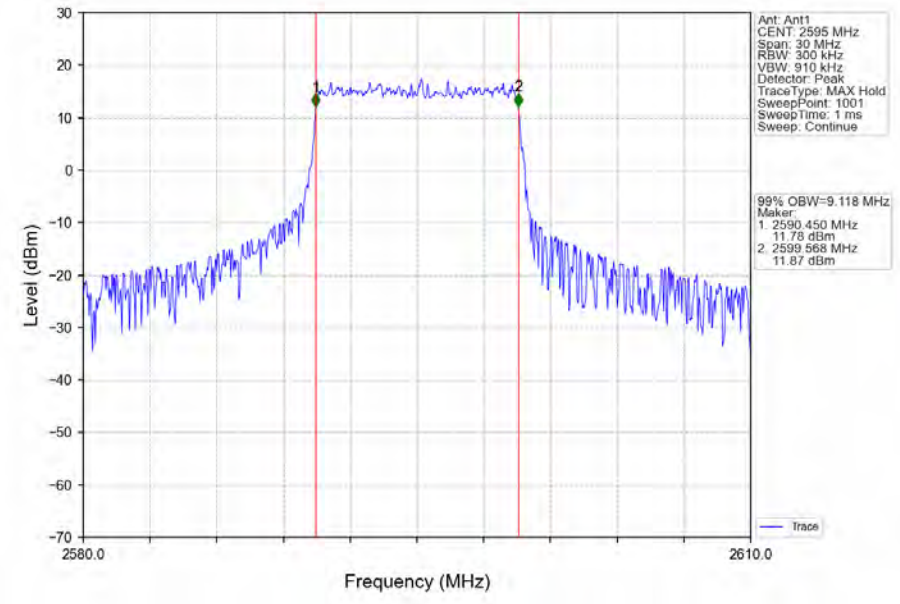

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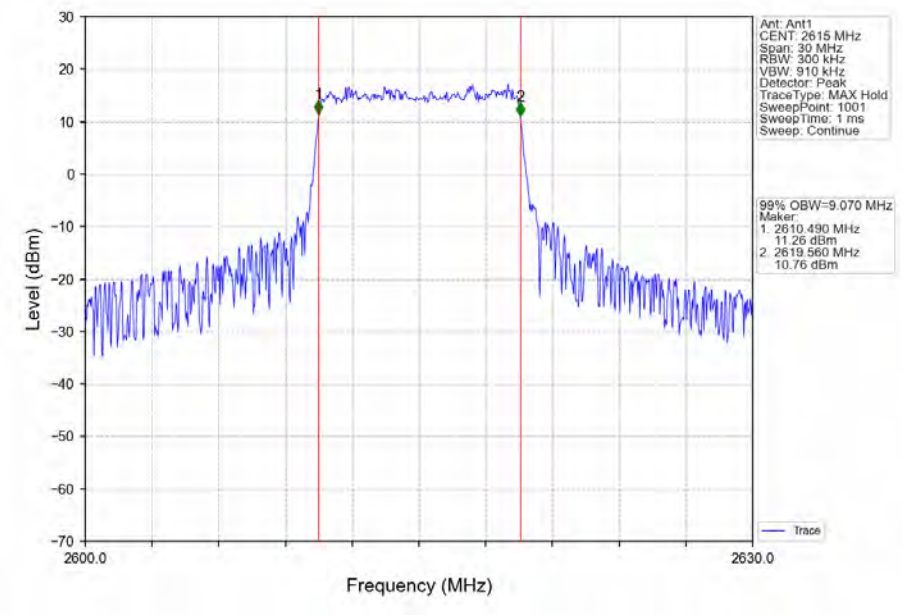

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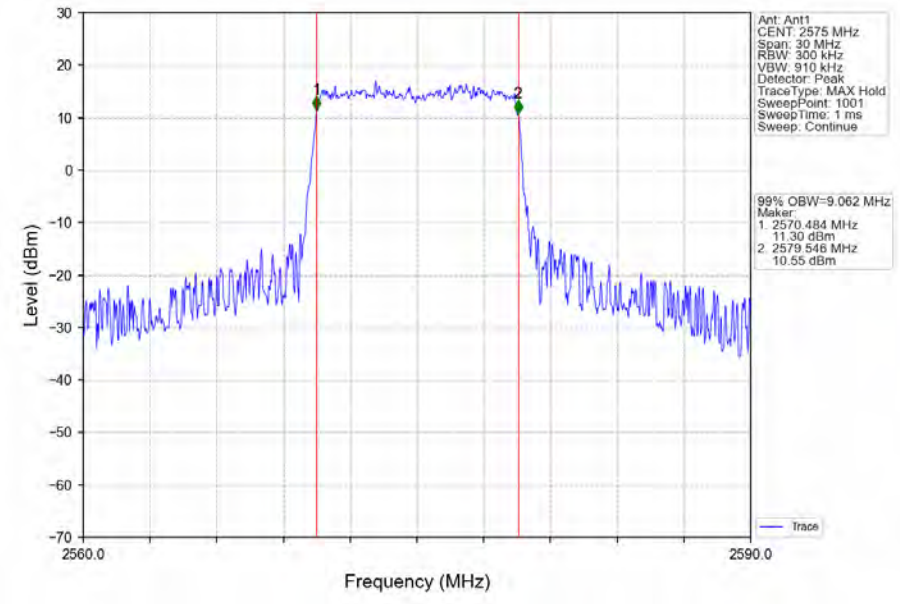

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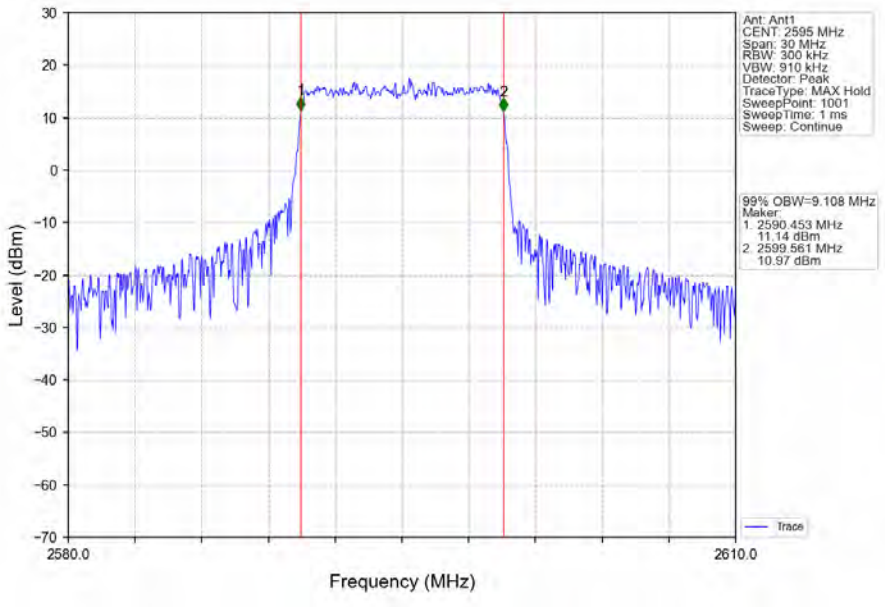

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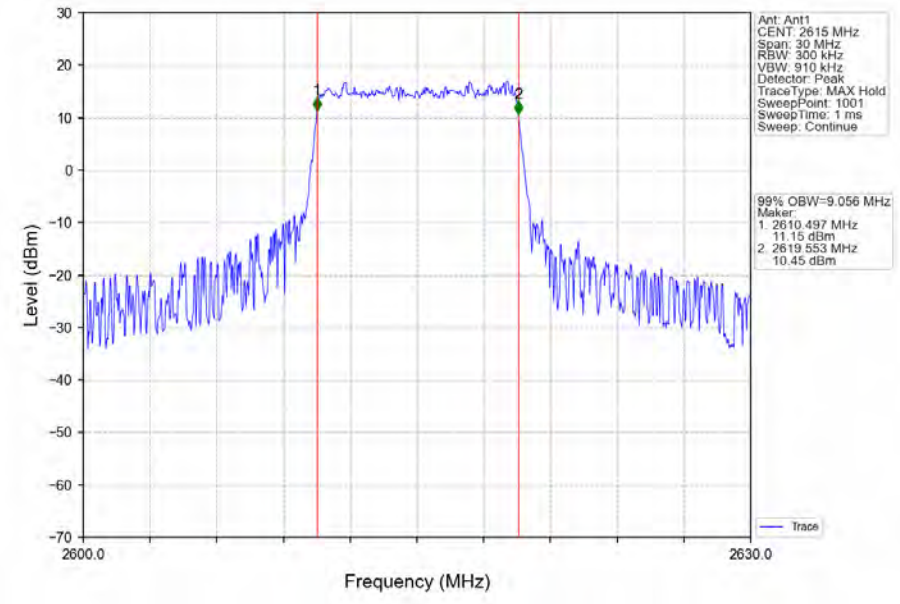

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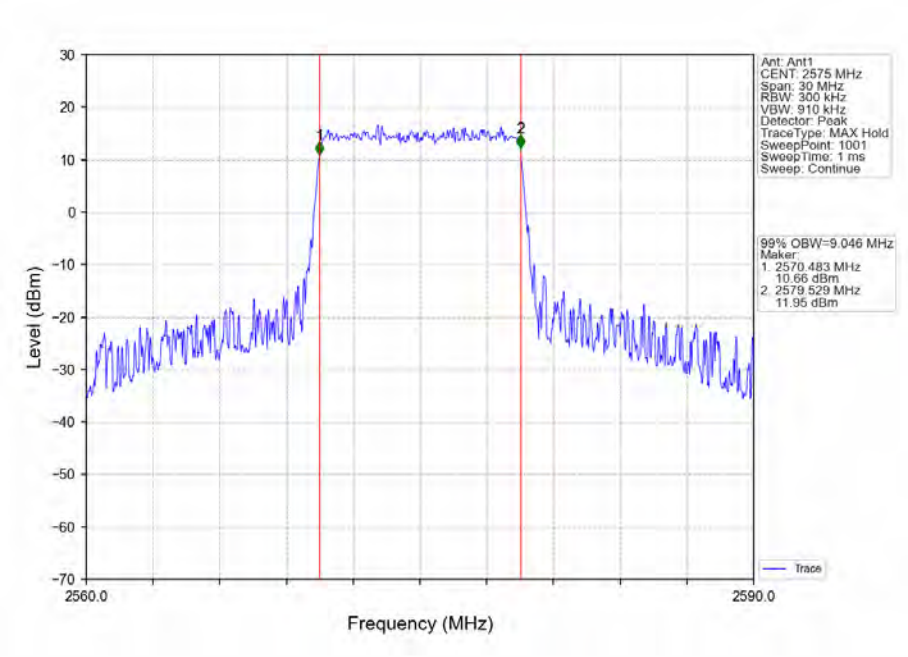
Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV



Band38_10MHz_64QAM_MCH_2595MHz_RB_50_0_NTNV

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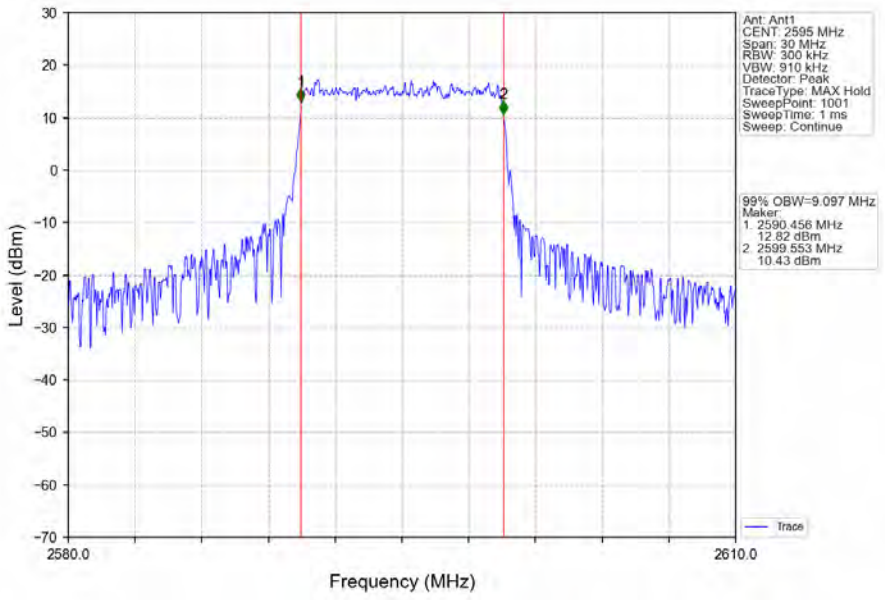

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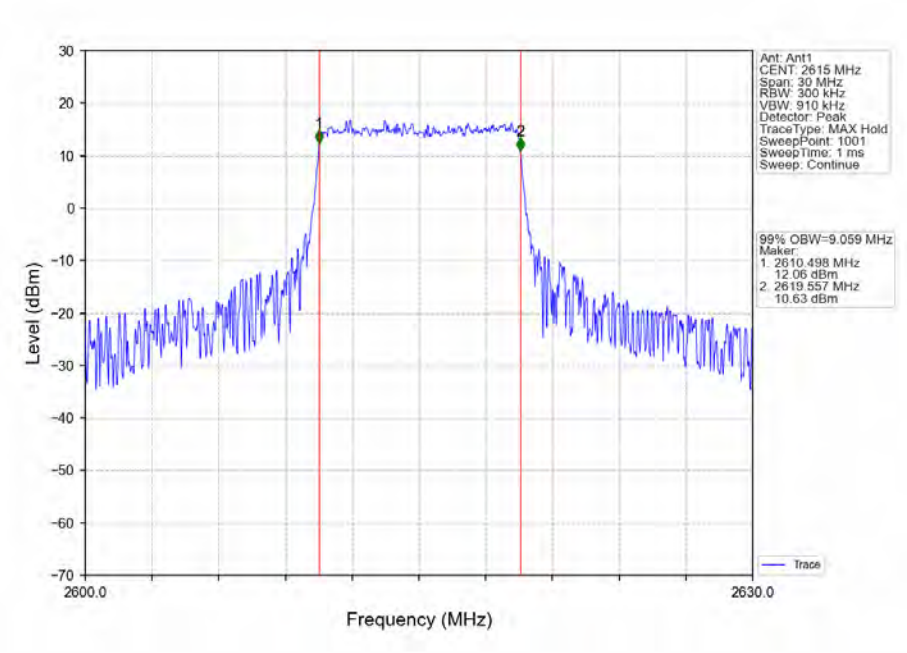

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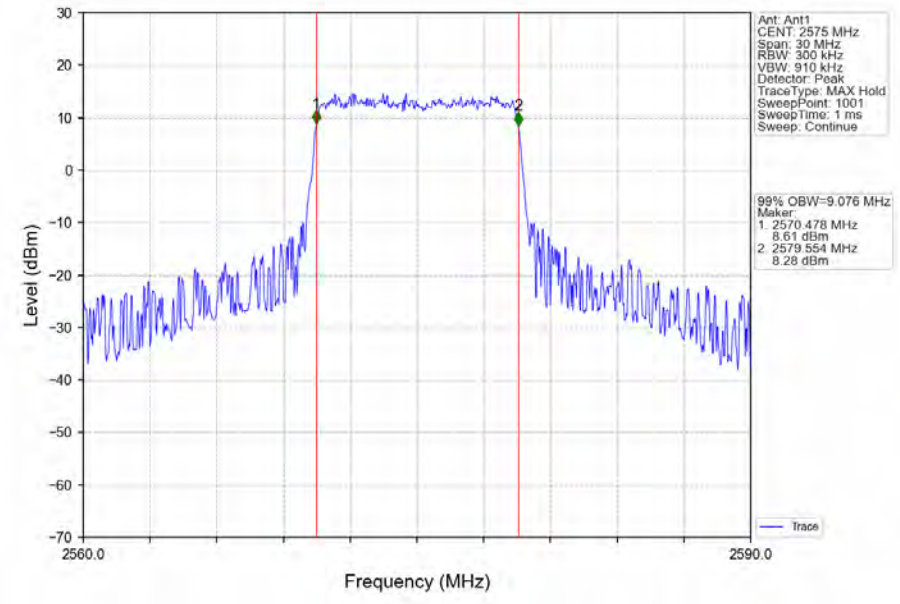

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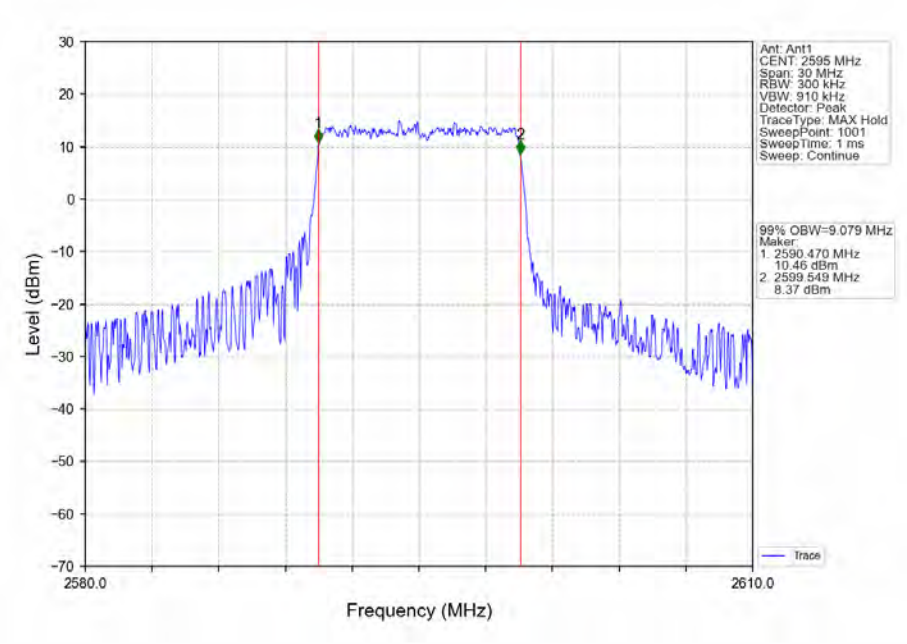

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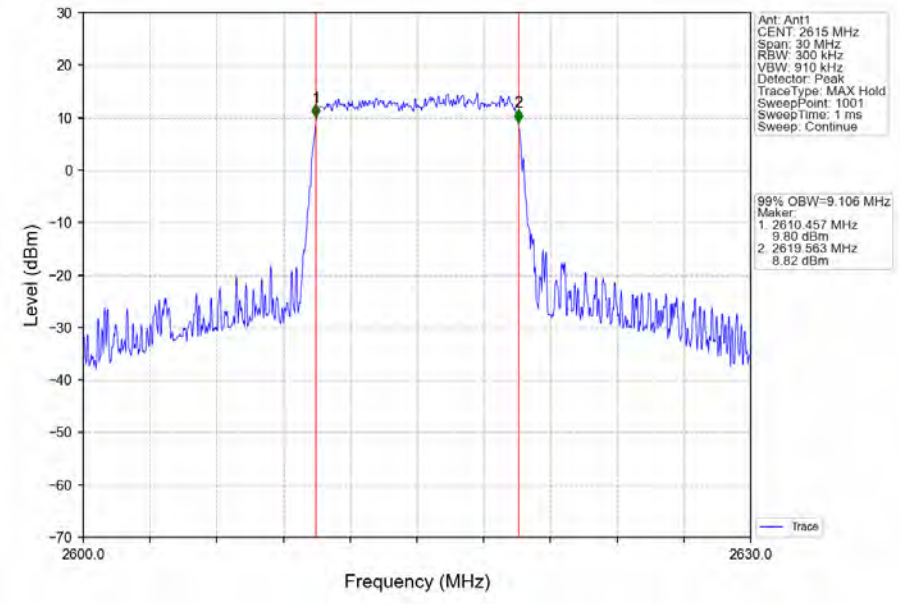

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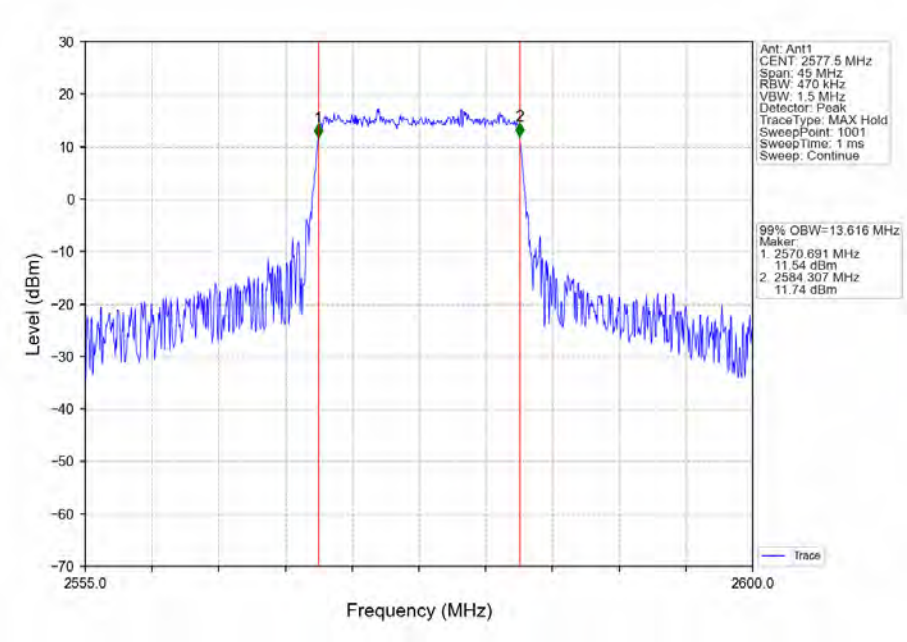
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



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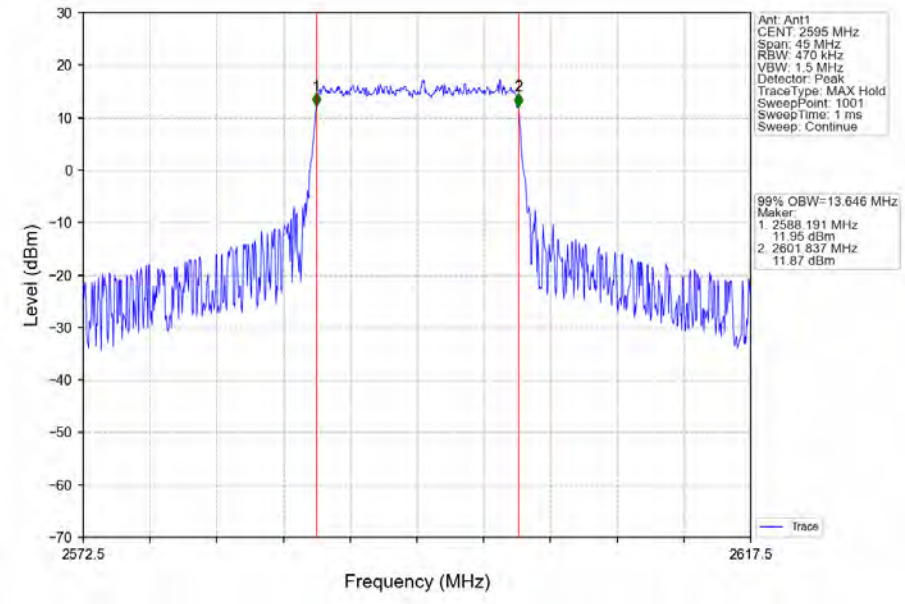

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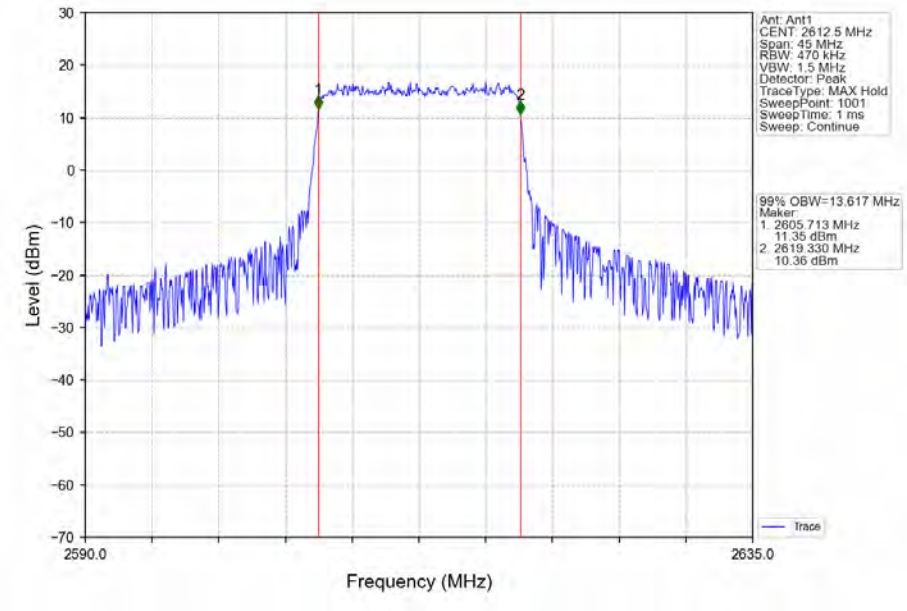

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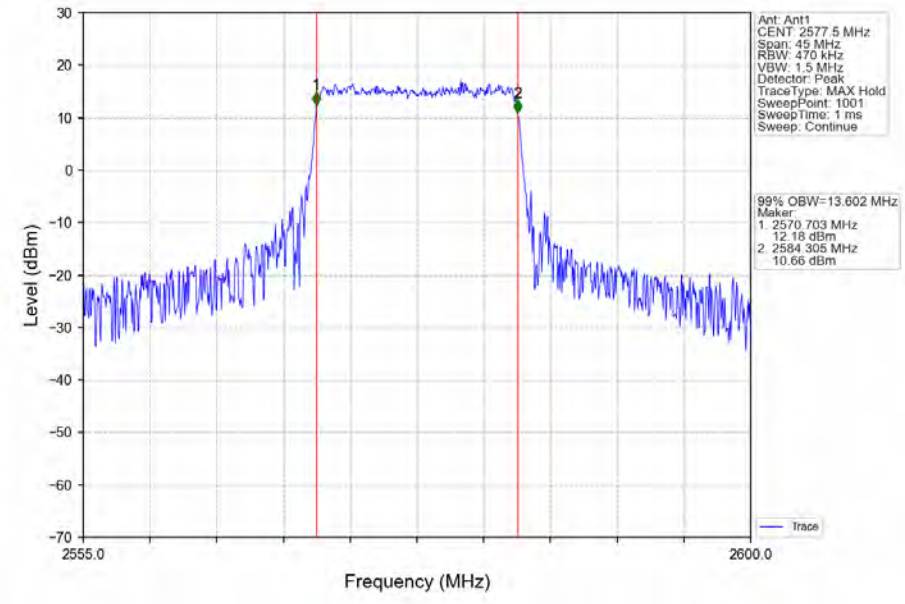

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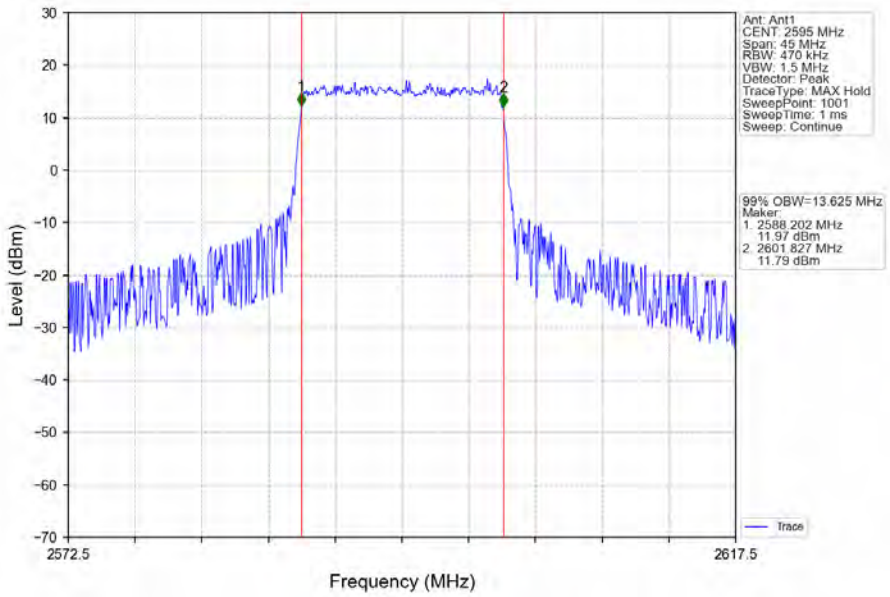

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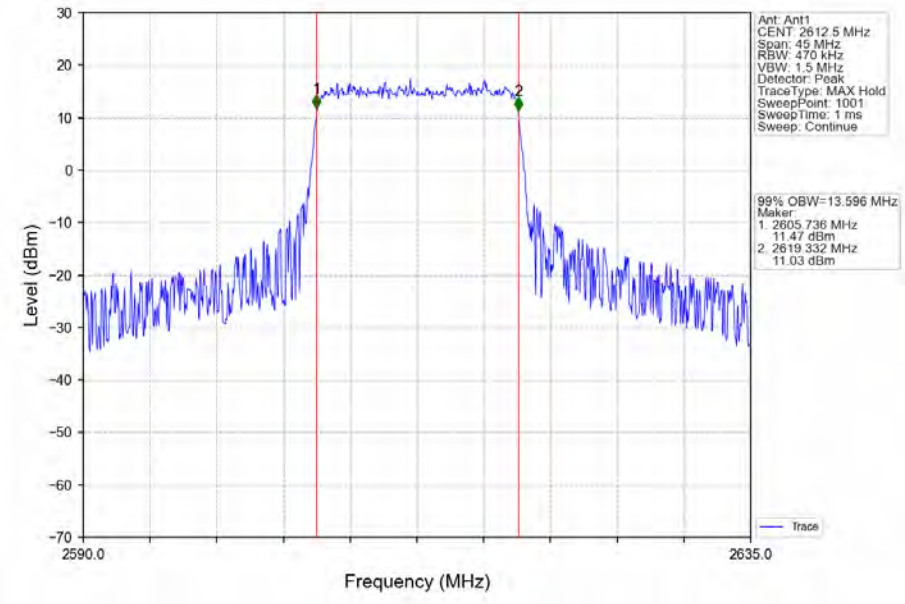

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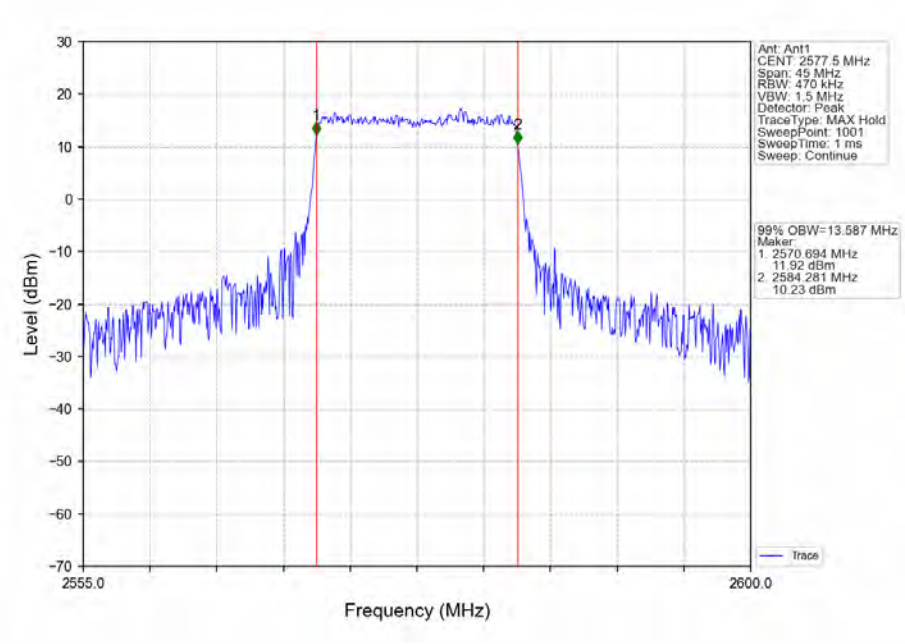
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV



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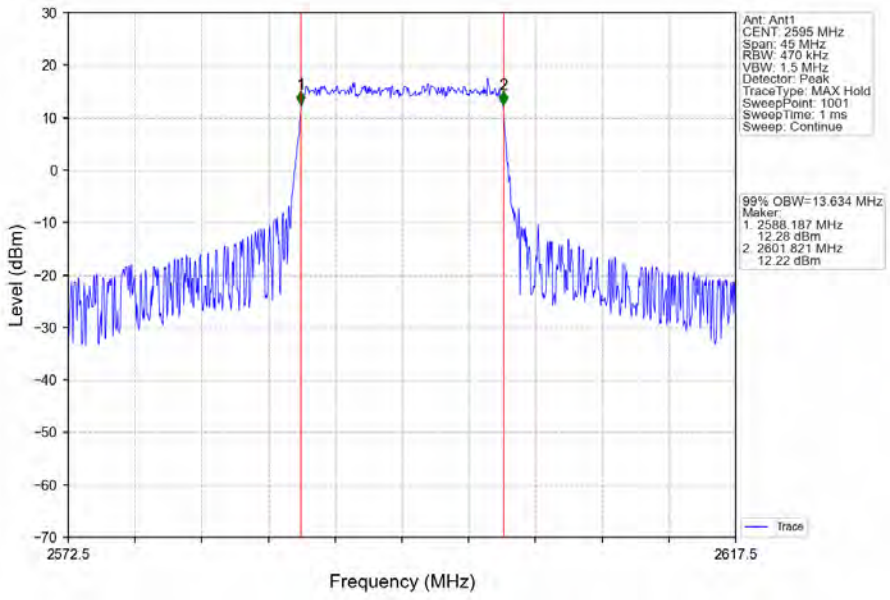

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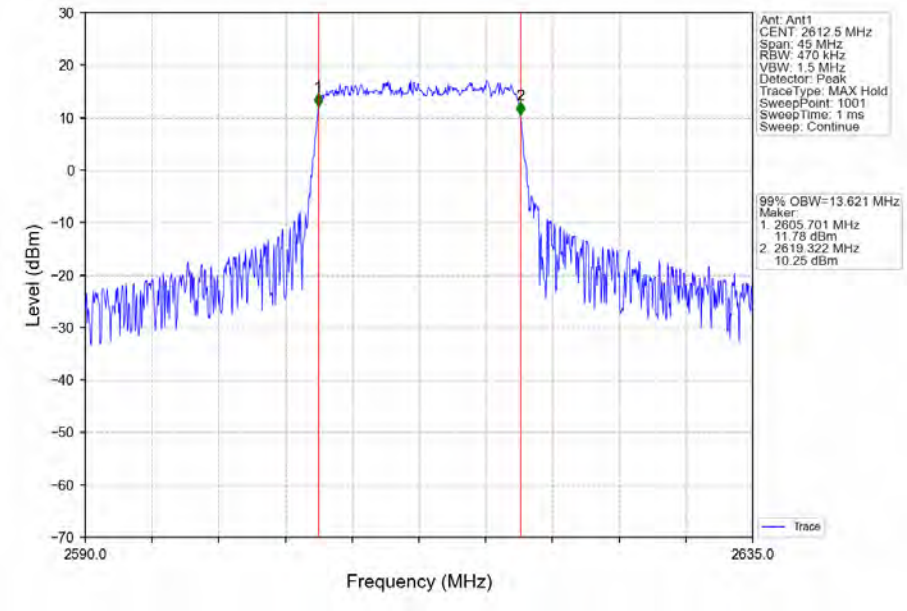
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



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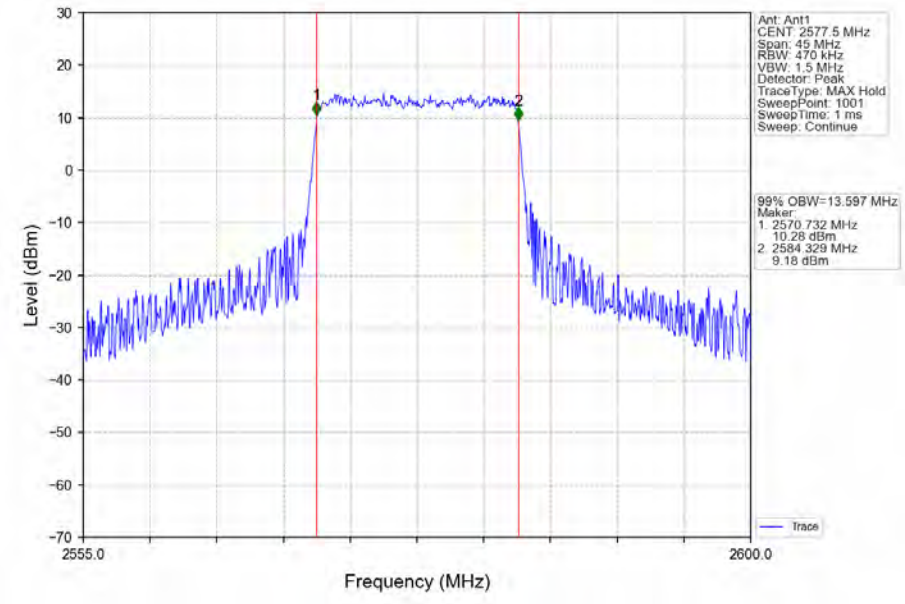

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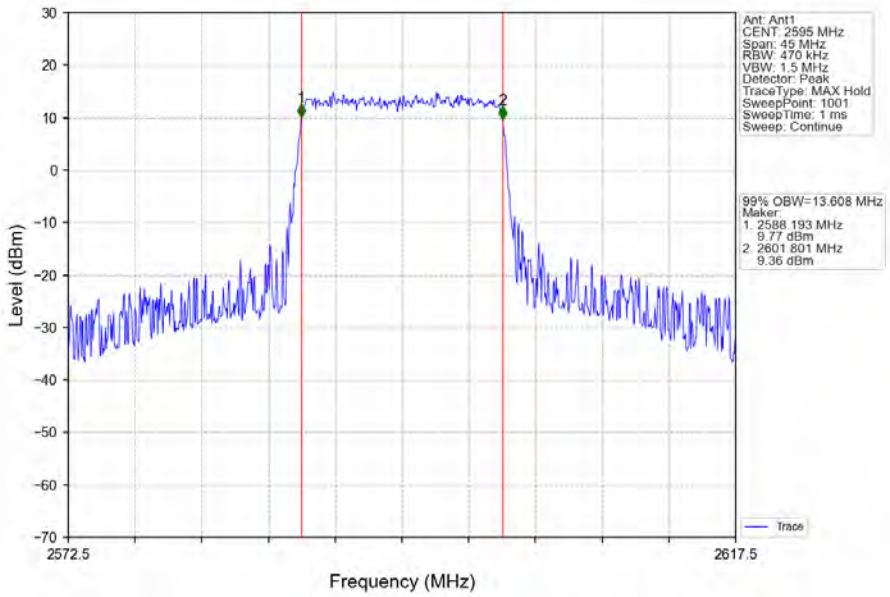
Band38_15MHz_256QAM_MCH_2595MHz_RB_75_0_NTNV



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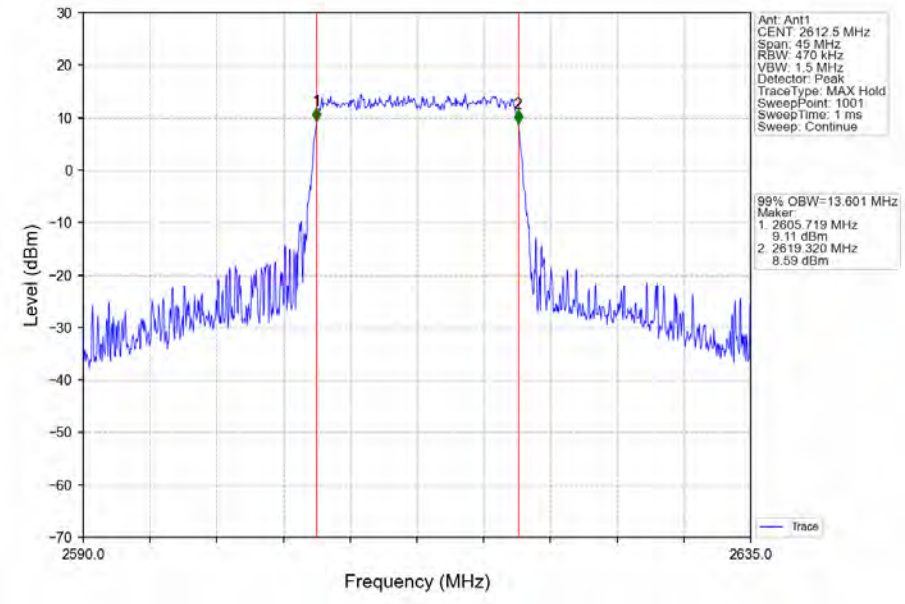

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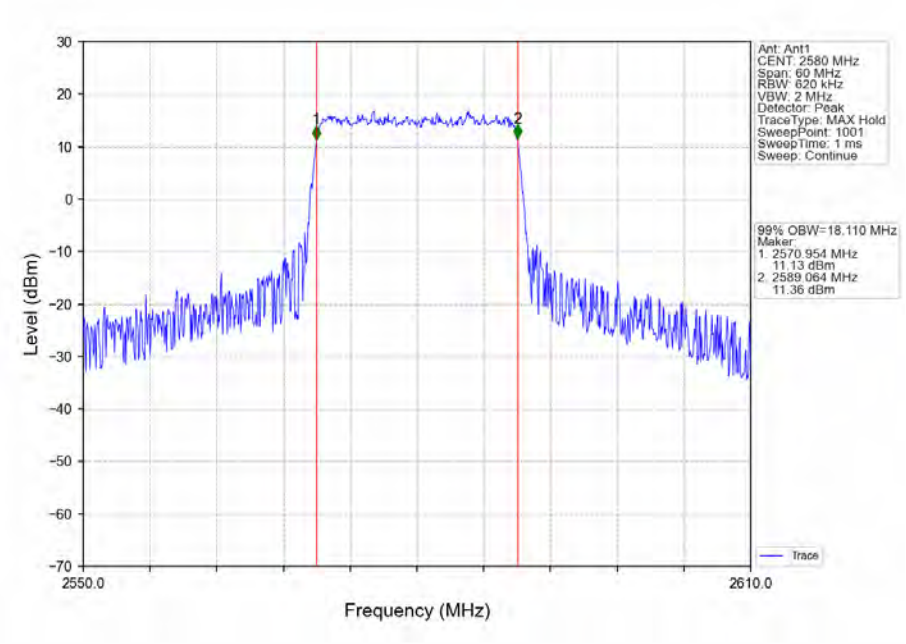
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



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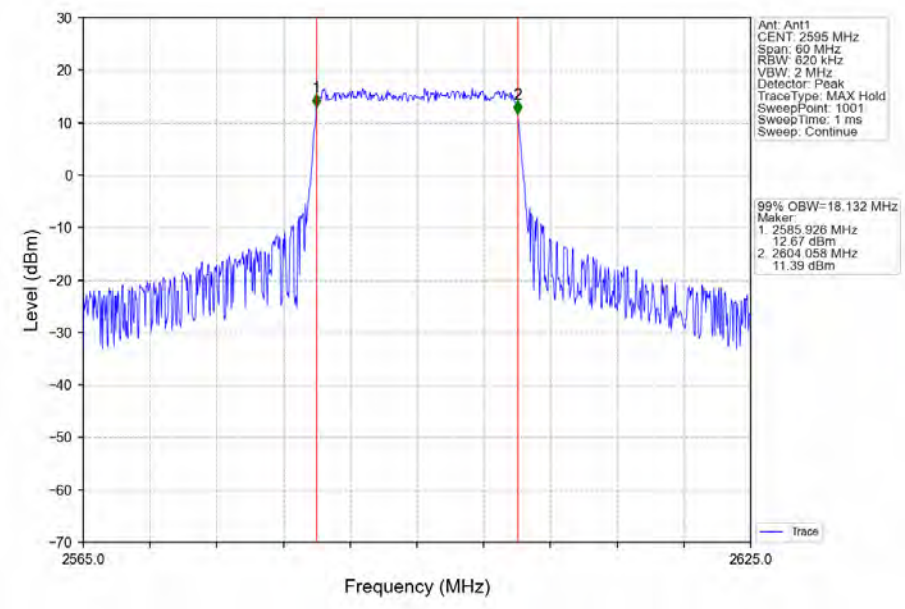

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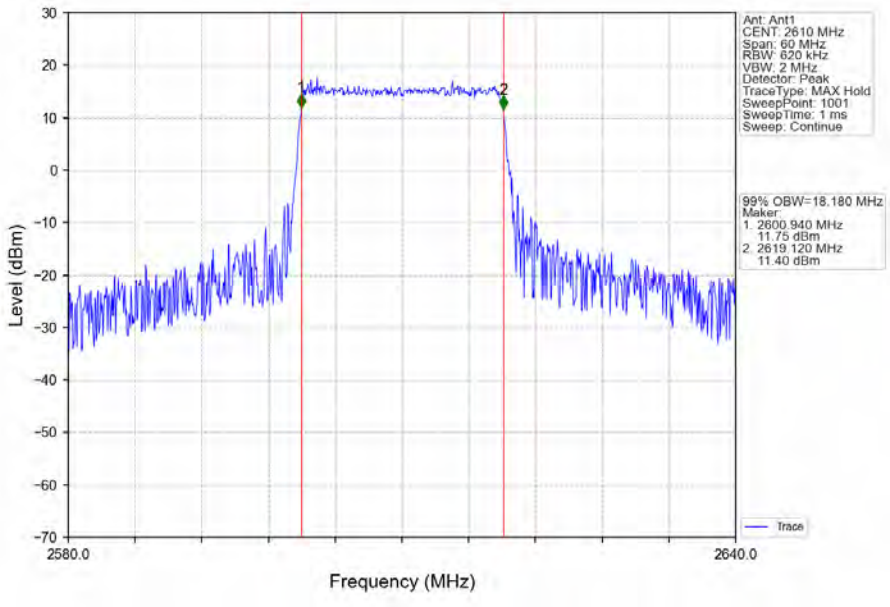

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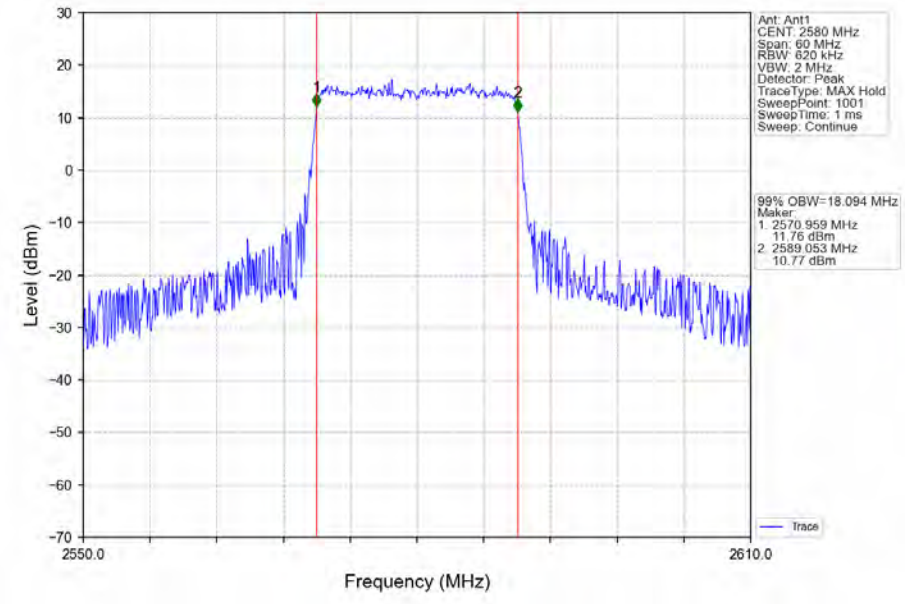

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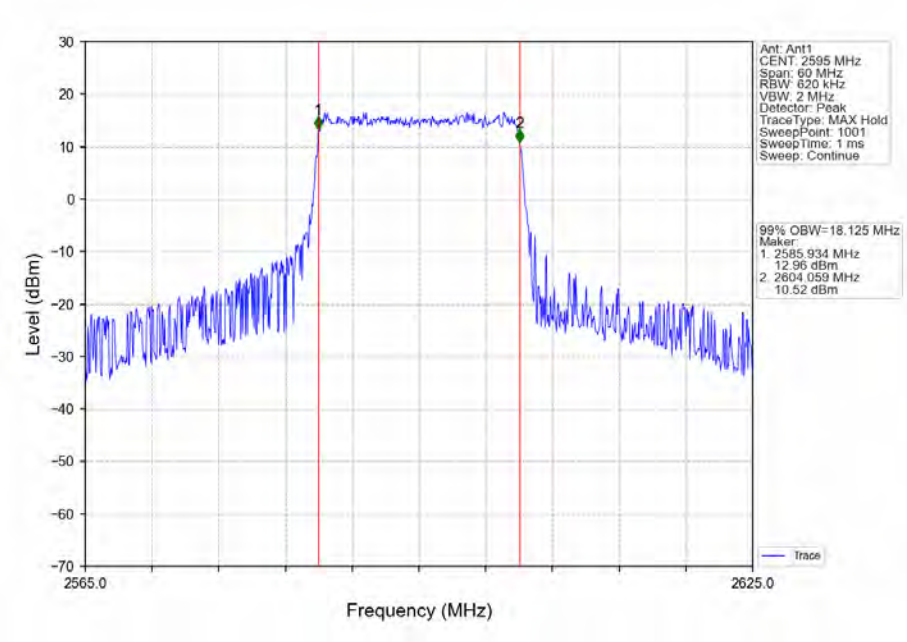

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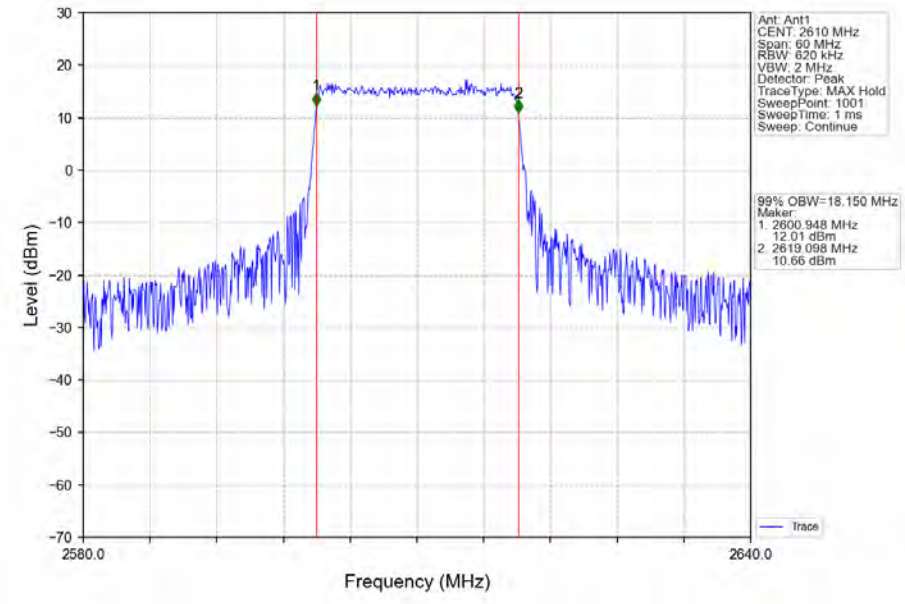

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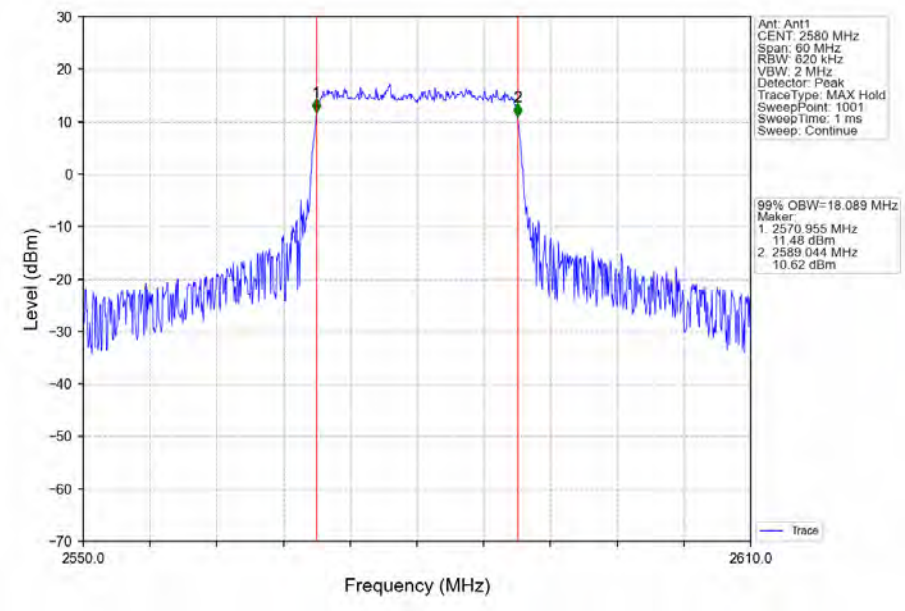

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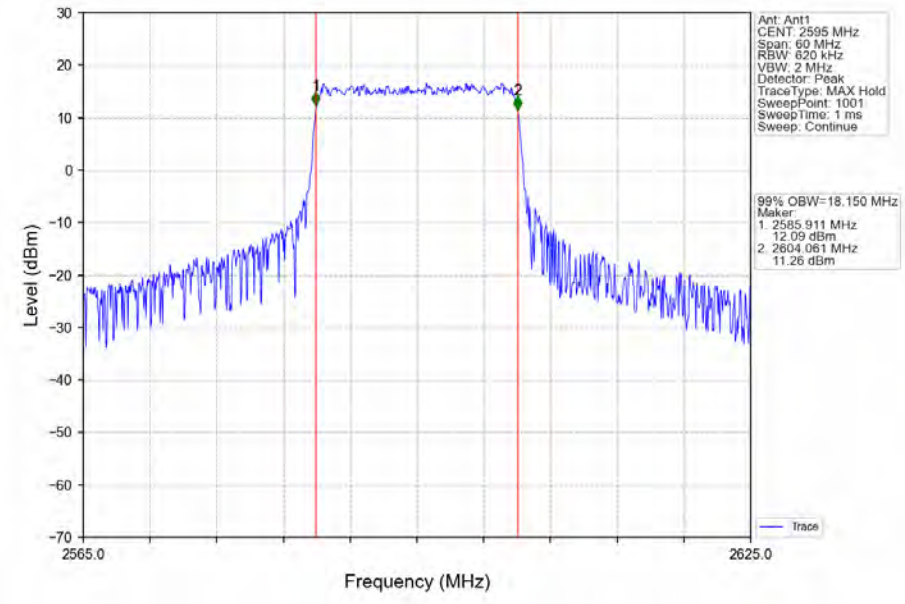

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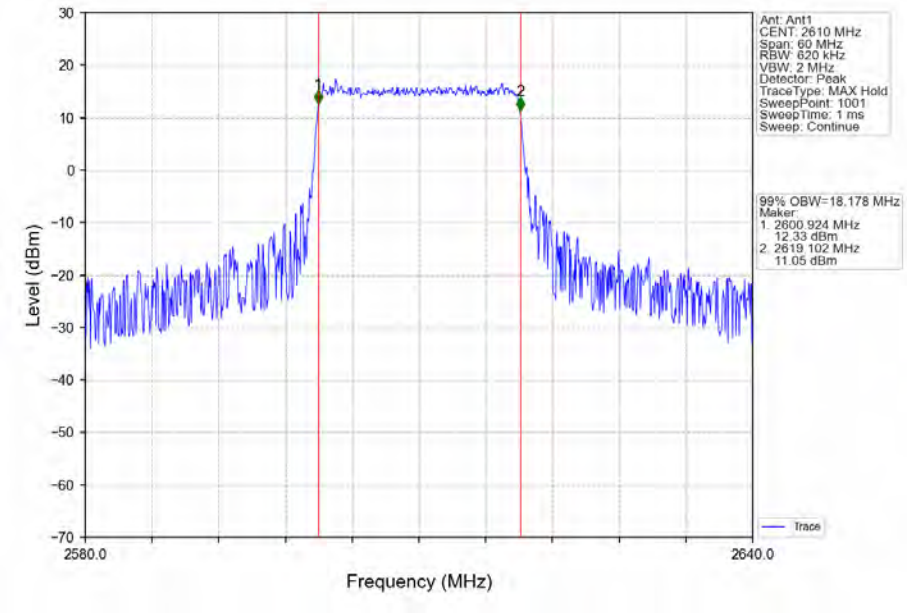
Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



Band38_20MHz_256QAM_LCH_2580MHz_RB_100_0_NTNV

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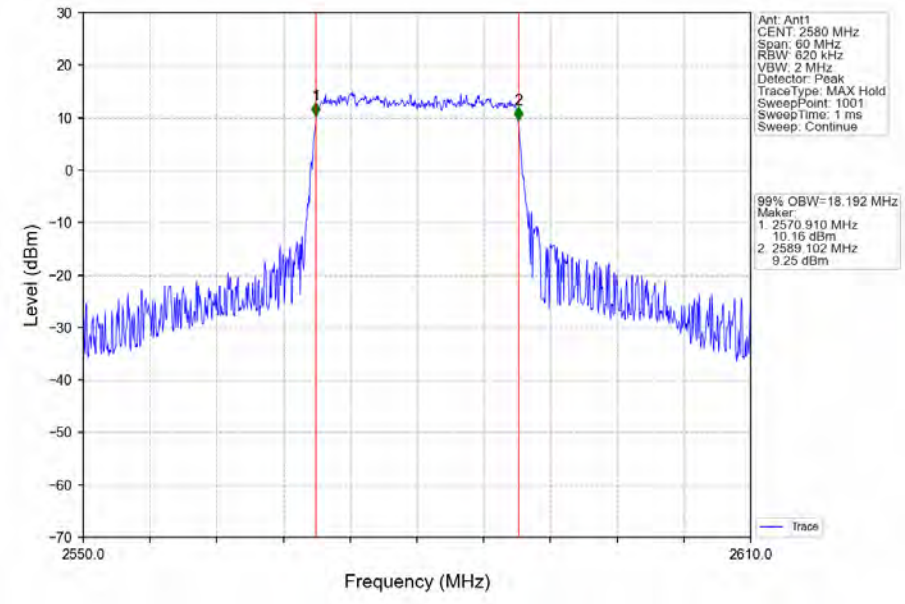

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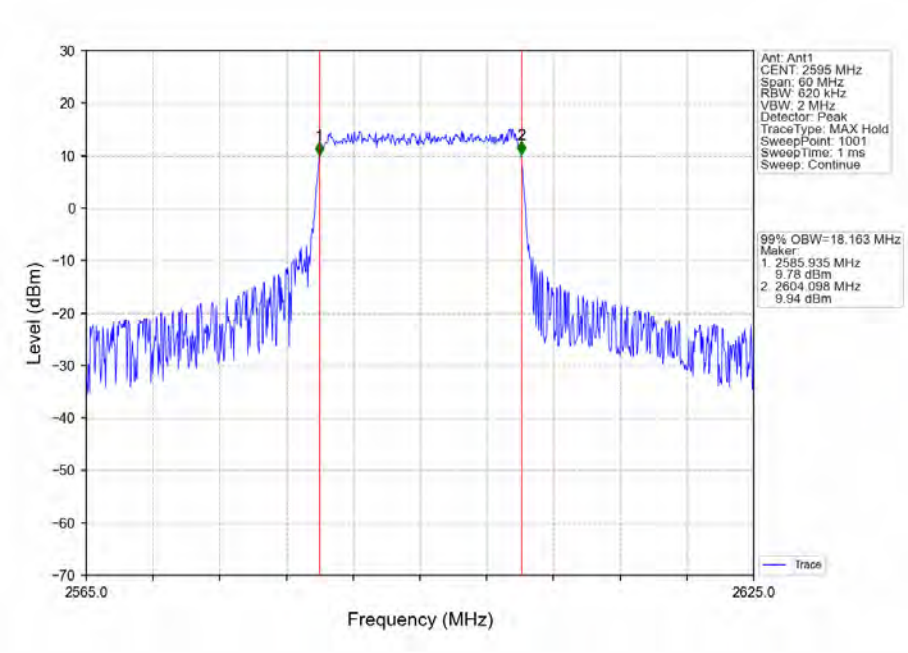

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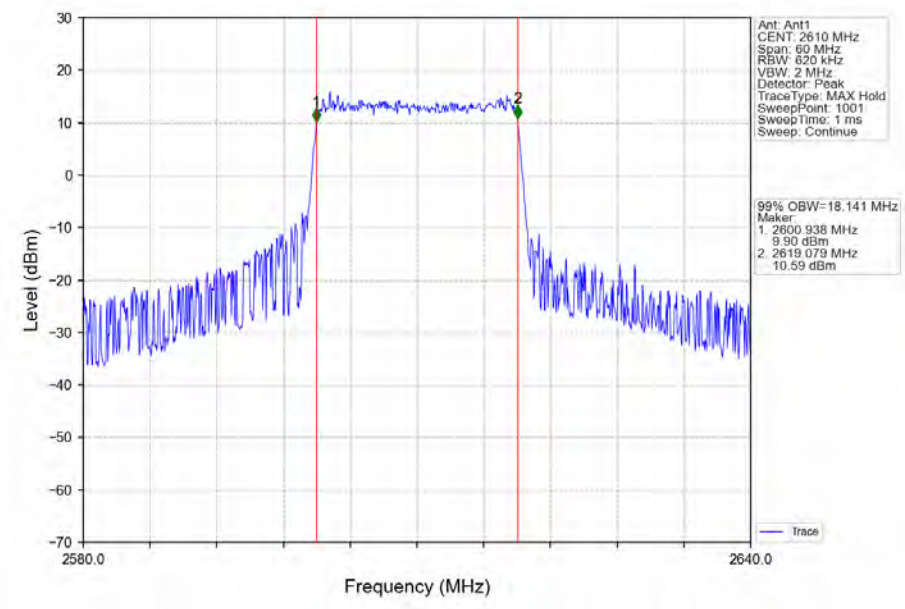

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3.2 Band38_XDB

3.2.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.006	/	Pass
		2595	25	0	5.039	/	Pass
		2617.5	25	0	5.275	/	Pass
	16QAM	2572.5	25	0	5.241	/	Pass
		2595	25	0	5.037	/	Pass
		2617.5	25	0	5.113	/	Pass
	64QAM	2572.5	25	0	5.357	/	Pass
		2595	25	0	5.044	/	Pass
		2617.5	25	0	5.093	/	Pass
	256QAM	2572.5	25	0	5.476	/	Pass
		2595	25	0	5.619	/	Pass
		2617.5	25	0	5.385	/	Pass
10	QPSK	2575	50	0	10.076	/	Pass
		2595	50	0	10.666	/	Pass
		2615	50	0	10.763	/	Pass
	16QAM	2575	50	0	9.988	/	Pass
		2595	50	0	10.548	/	Pass
		2615	50	0	10.614	/	Pass
	64QAM	2575	50	0	9.902	/	Pass
		2595	50	0	10.565	/	Pass
		2615	50	0	10.896	/	Pass
	256QAM	2575	50	0	10.896	/	Pass
		2595	50	0	10.981	/	Pass
		2615	50	0	10.010	/	Pass
15	QPSK	2577.5	75	0	16.739	/	Pass
		2595	75	0	16.333	/	Pass
		2612.5	75	0	16.721	/	Pass
	16QAM	2577.5	75	0	17.409	/	Pass
		2595	75	0	15.521	/	Pass
		2612.5	75	0	16.390	/	Pass
	64QAM	2577.5	75	0	16.093	/	Pass
		2595	75	0	15.935	/	Pass
		2612.5	75	0	16.195	/	Pass
	256QAM	2577.5	75	0	15.805	/	Pass
		2595	75	0	15.626	/	Pass
		2612.5	75	0	15.510	/	Pass
20	QPSK	2580	100	0	21.434	/	Pass
		2595	100	0	21.867	/	Pass

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		2610	100	0	21.479	/	Pass
	16QAM	2580	100	0	20.428	/	Pass
		2595	100	0	21.575	/	Pass
		2610	100	0	22.596	/	Pass
	64QAM	2580	100	0	20.630	/	Pass
		2595	100	0	21.886	/	Pass
		2610	100	0	22.567	/	Pass
	256QAM	2580	100	0	20.880	/	Pass
		2595	100	0	21.905	/	Pass
		2610	100	0	21.173	/	Pass

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3.2.2 Test Graph

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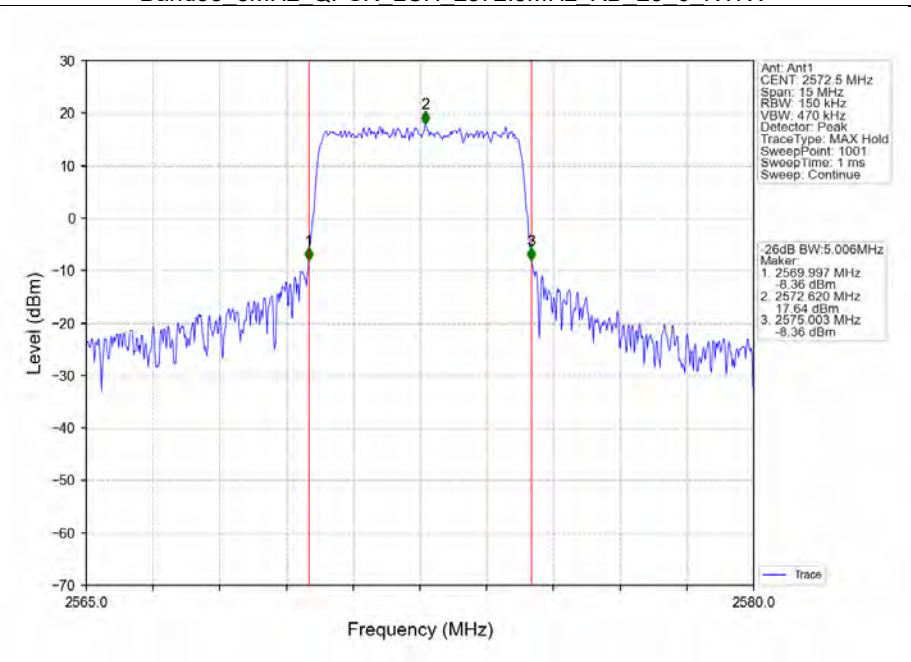

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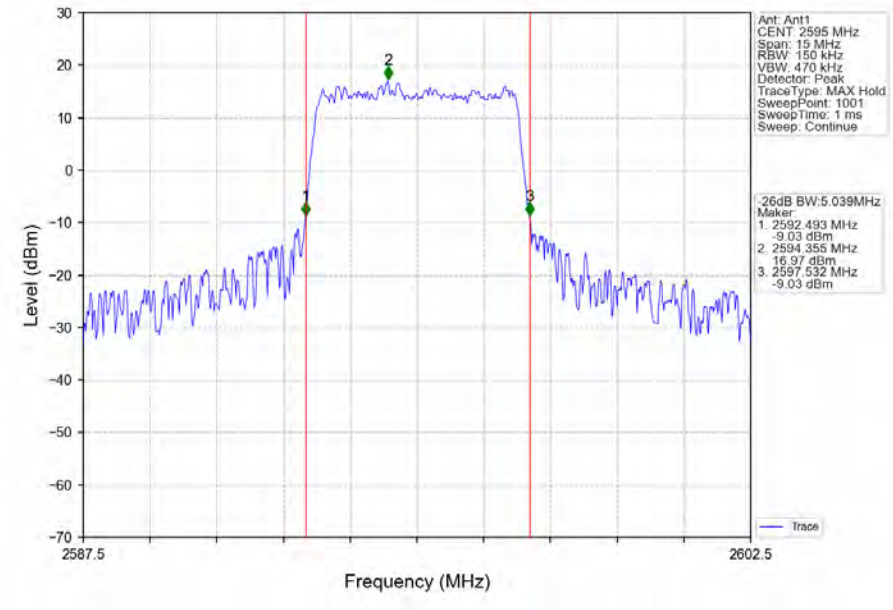

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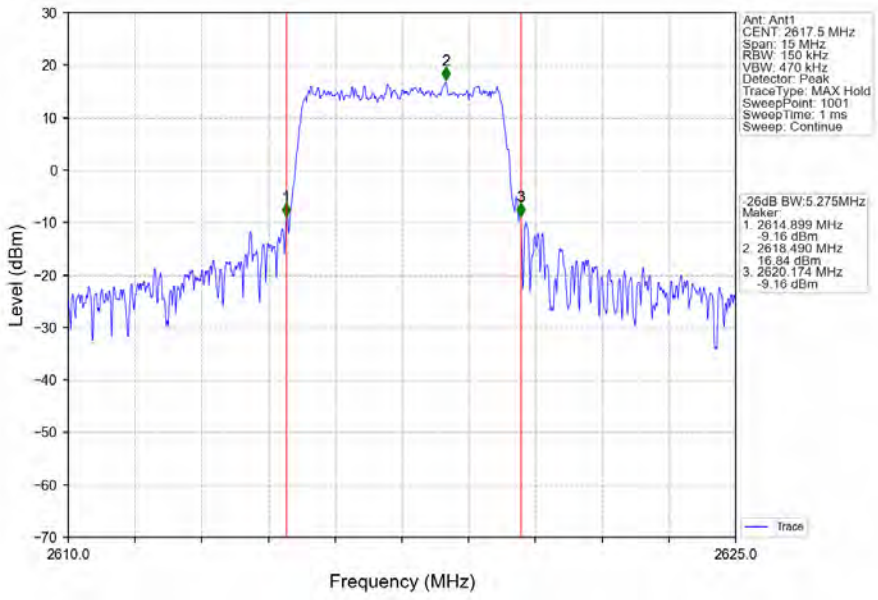

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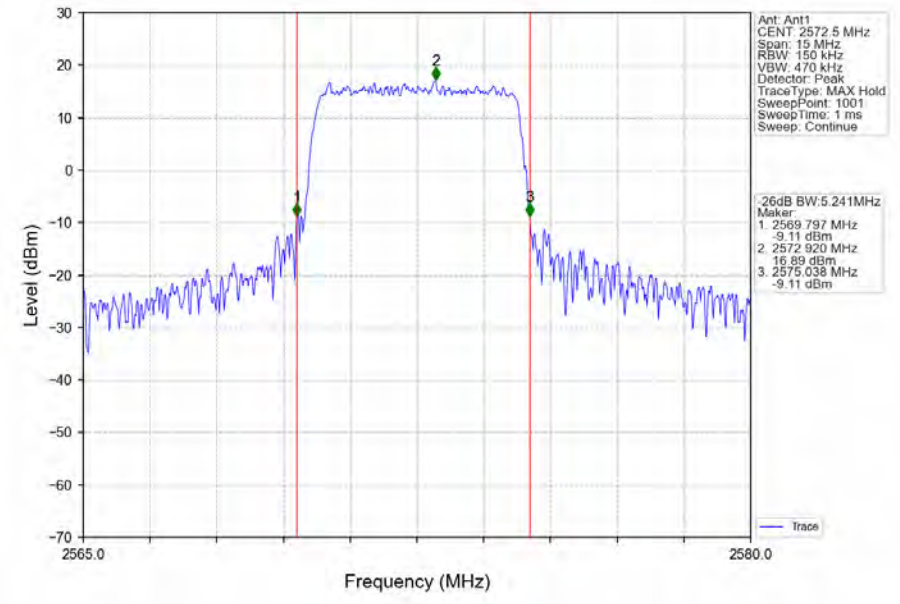

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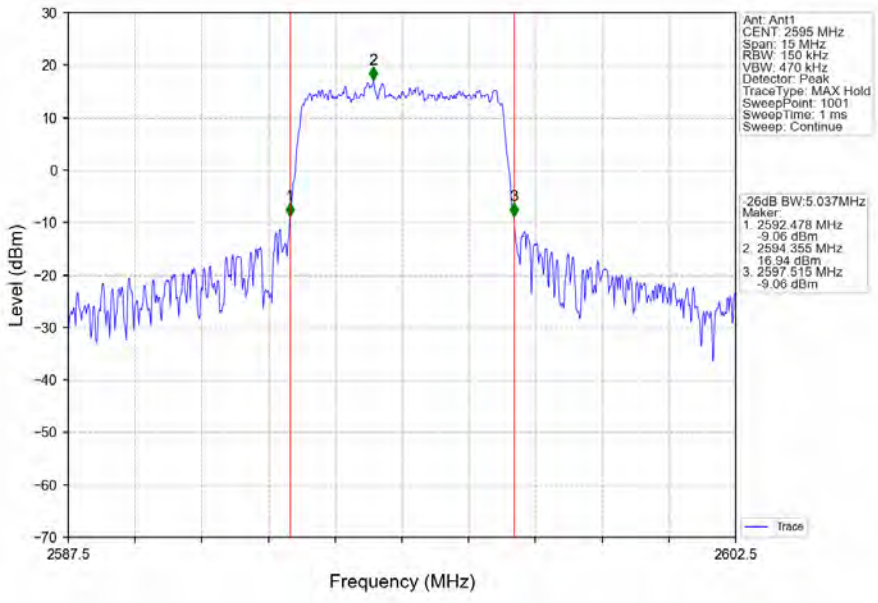

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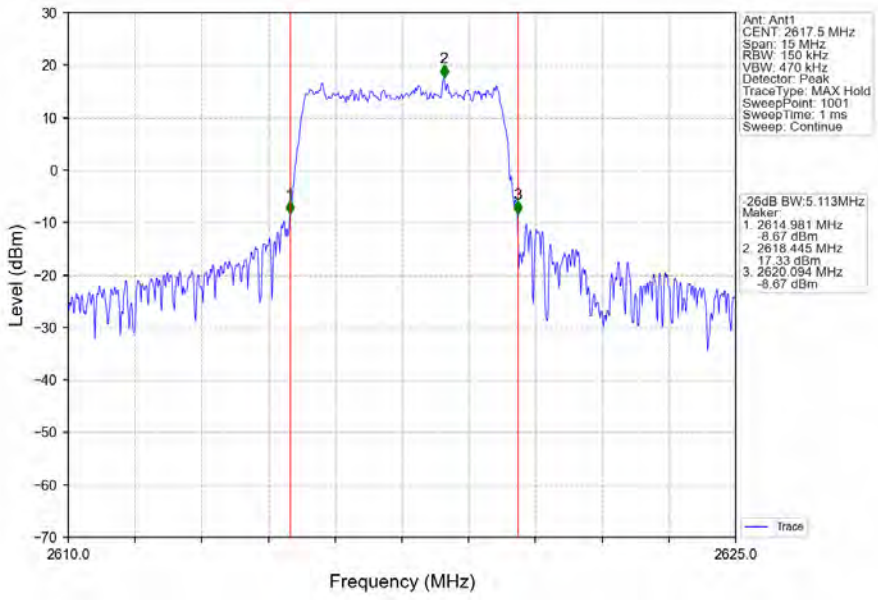

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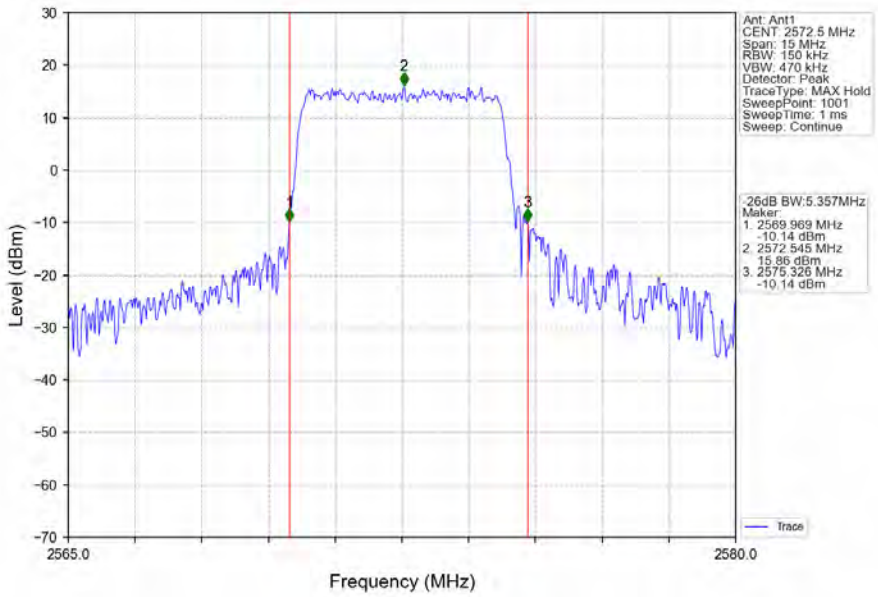

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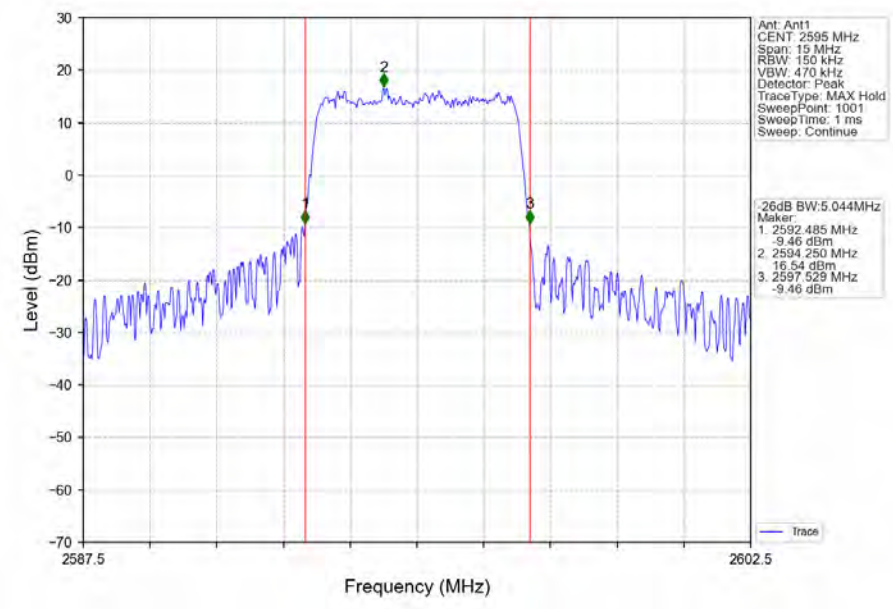

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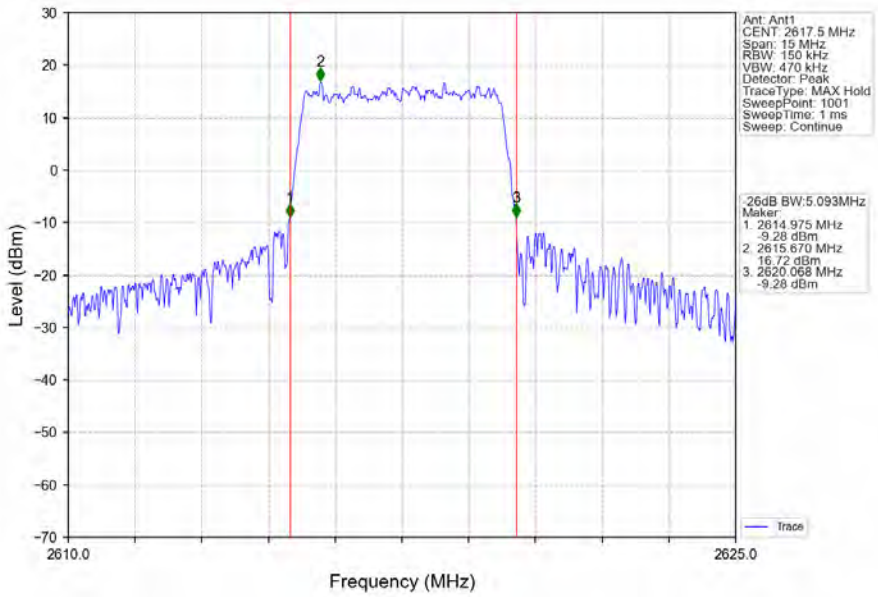
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV



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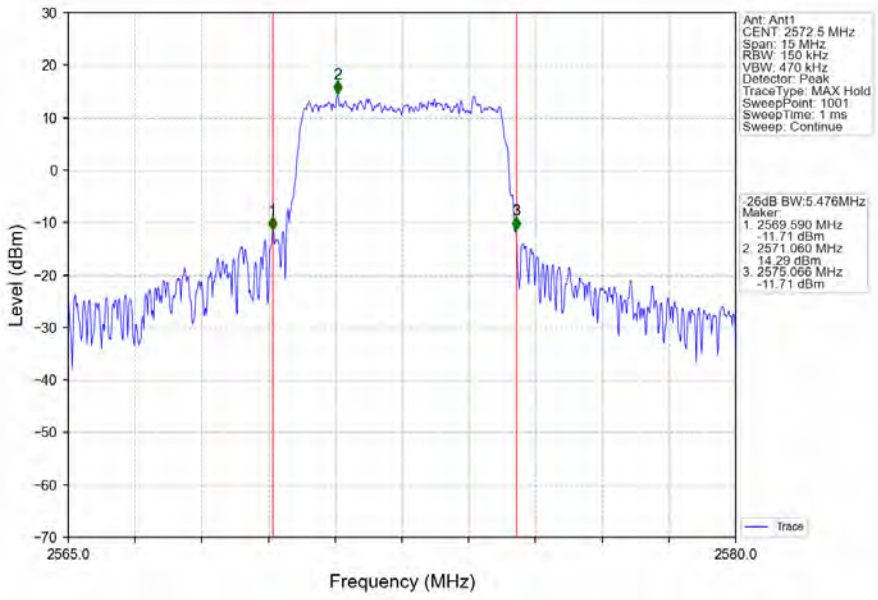

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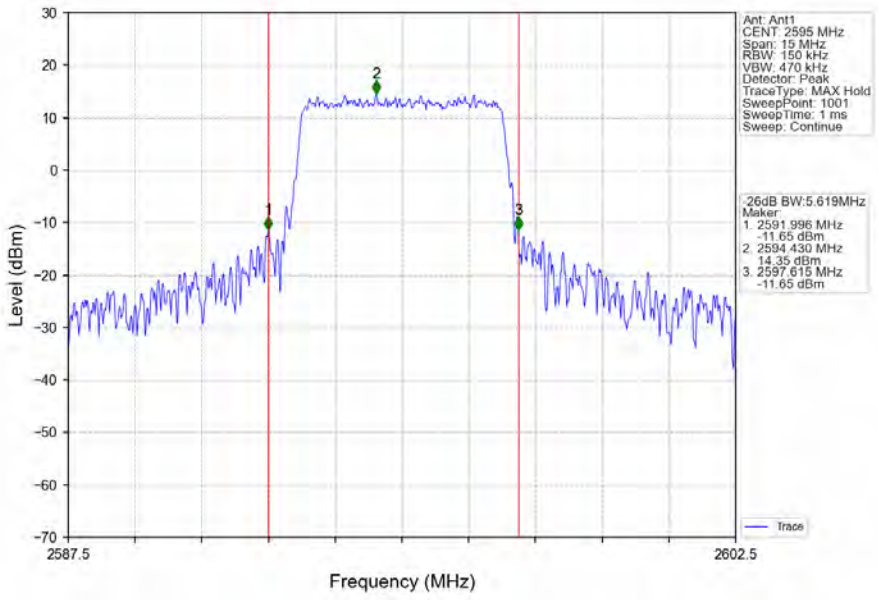

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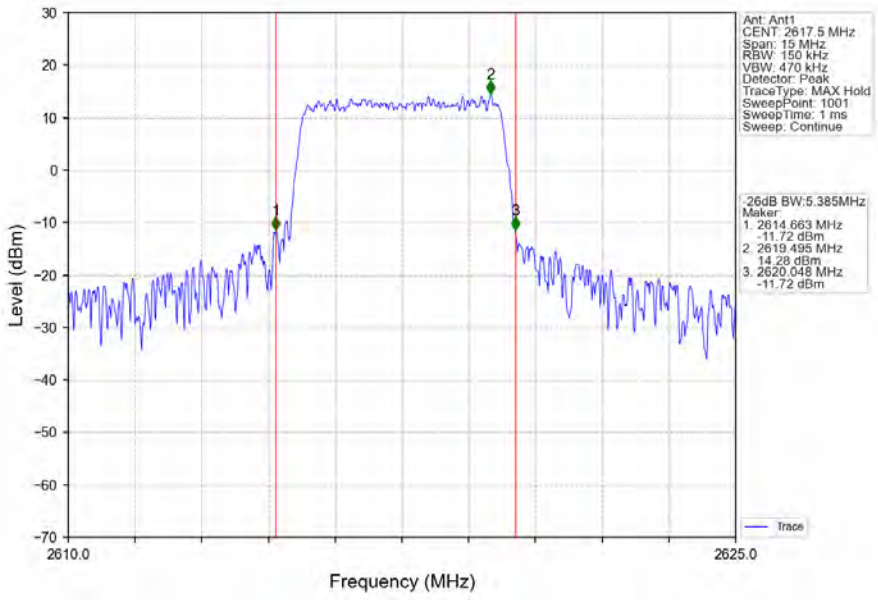

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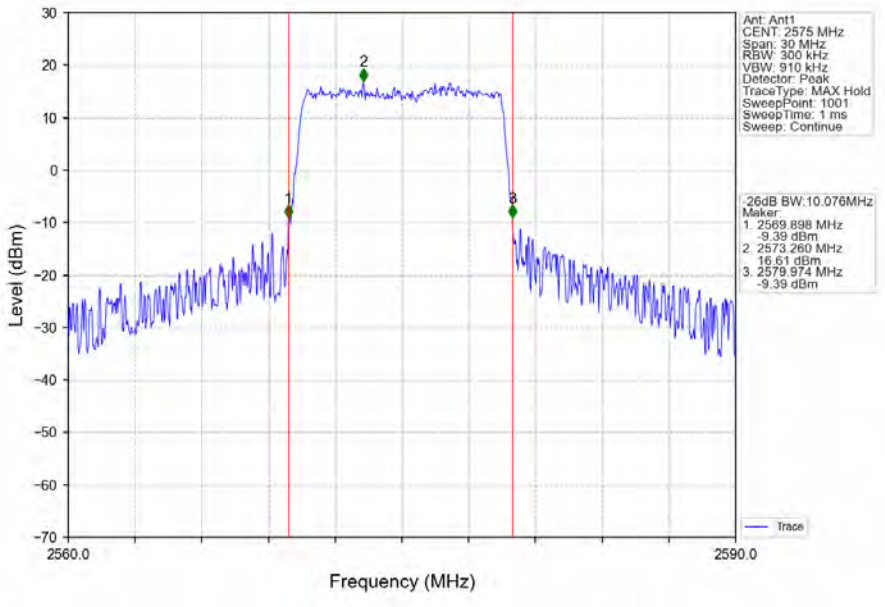

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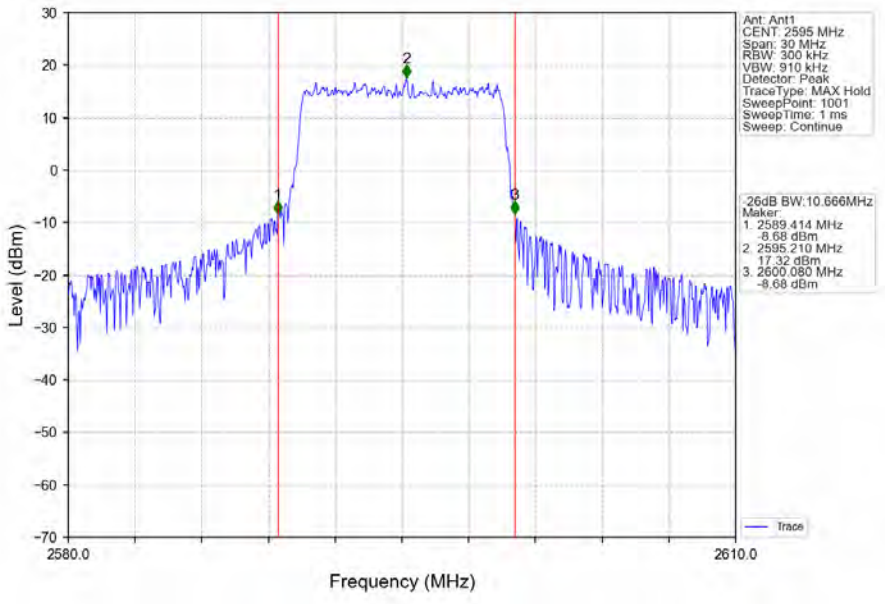

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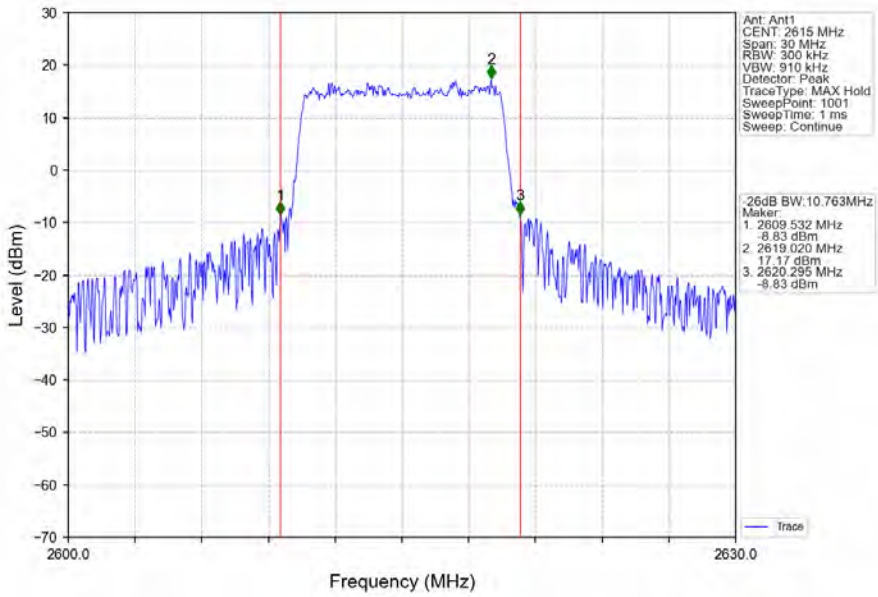

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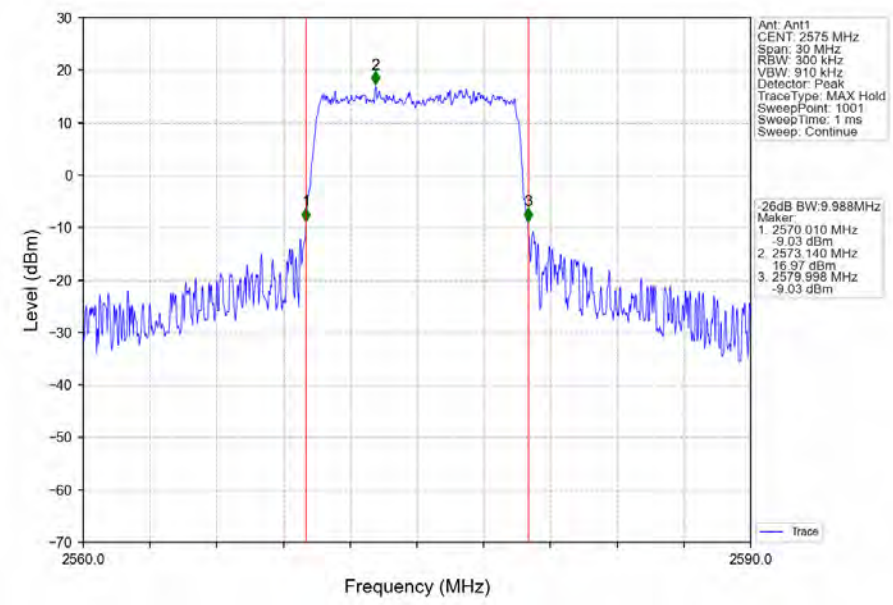

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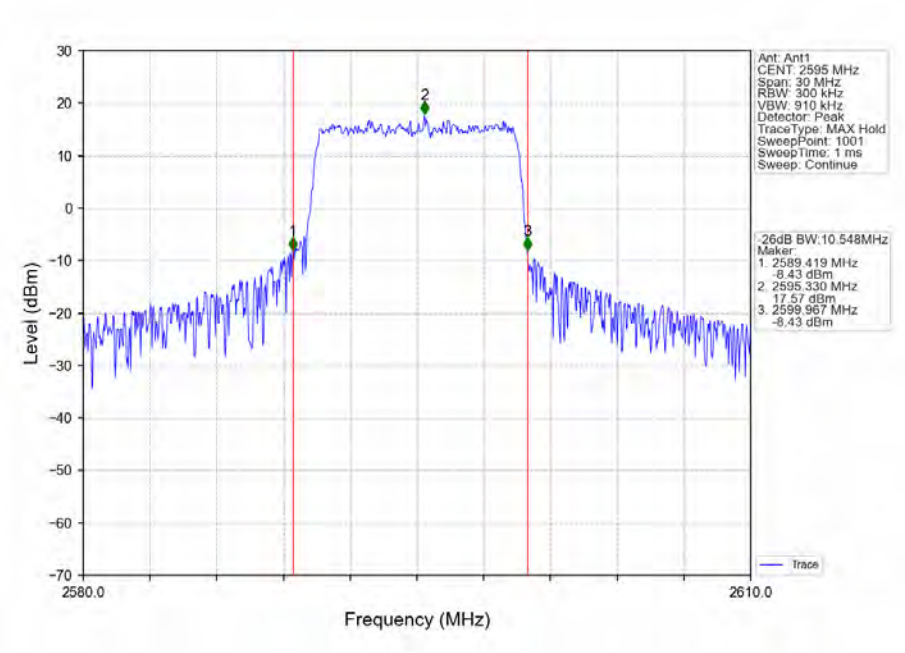

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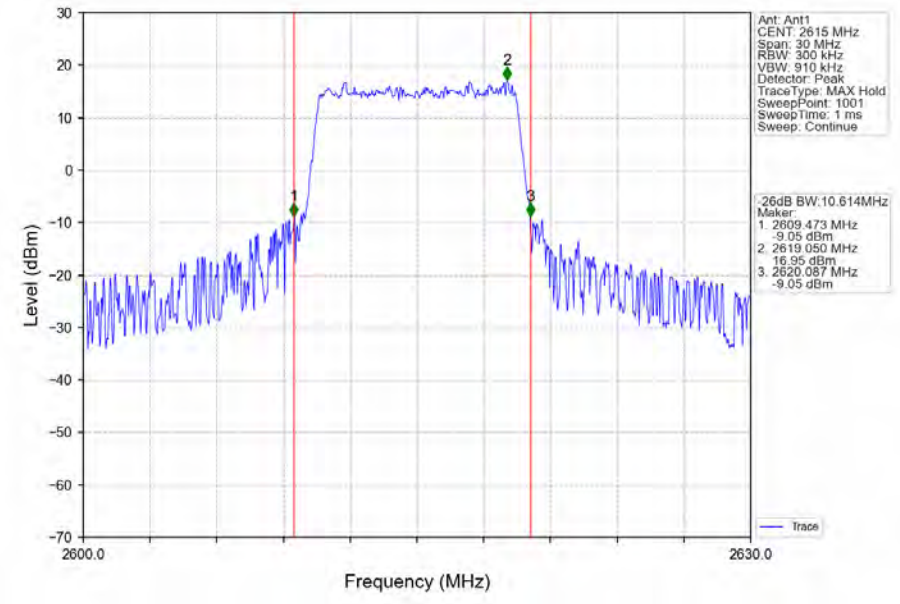

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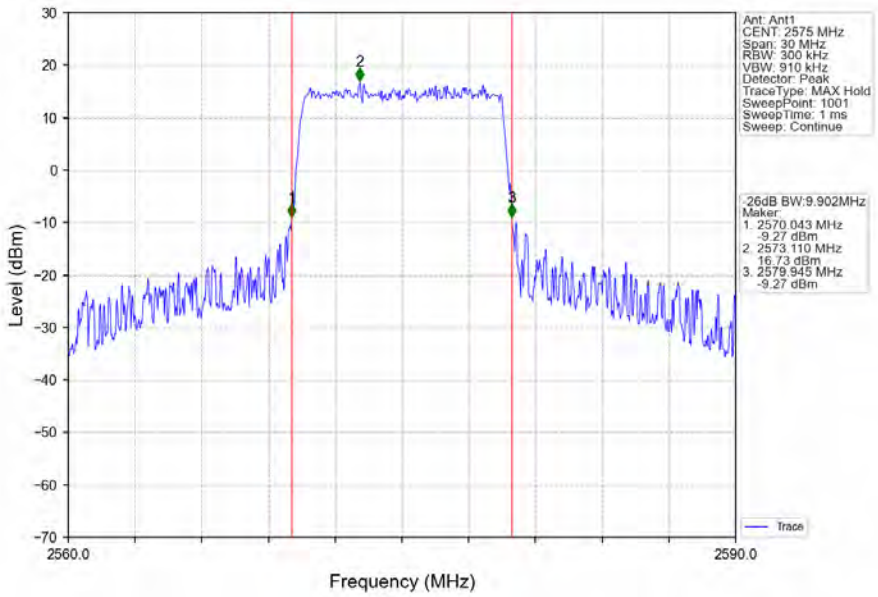

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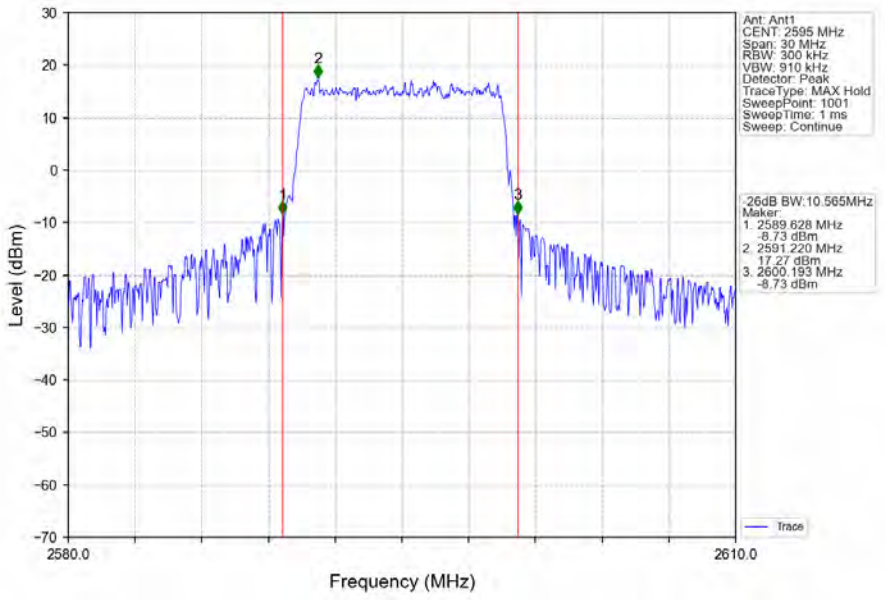

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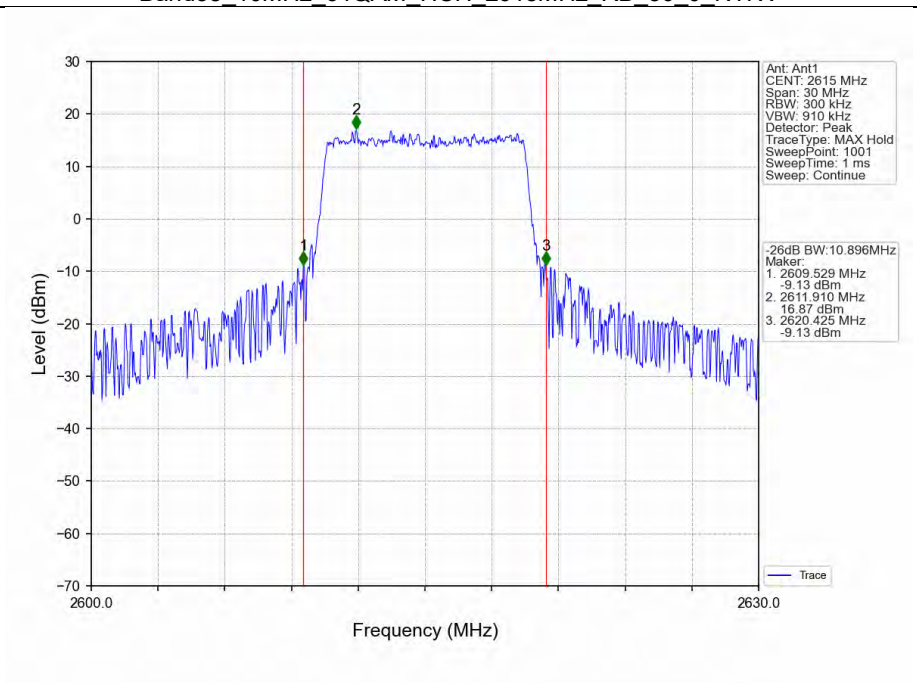

Band38_10MHz_256QAM_LCH_2575MHz_RB_50_0_NTNV

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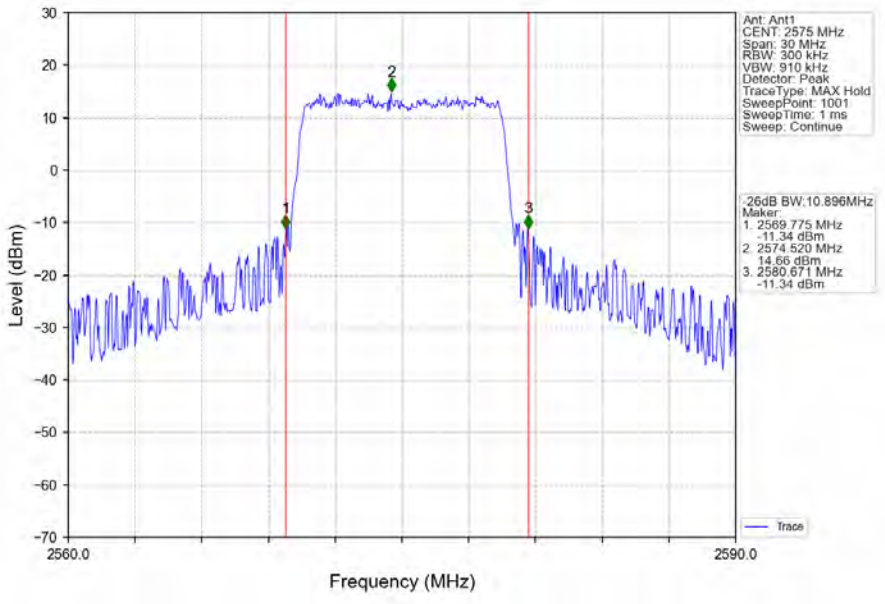

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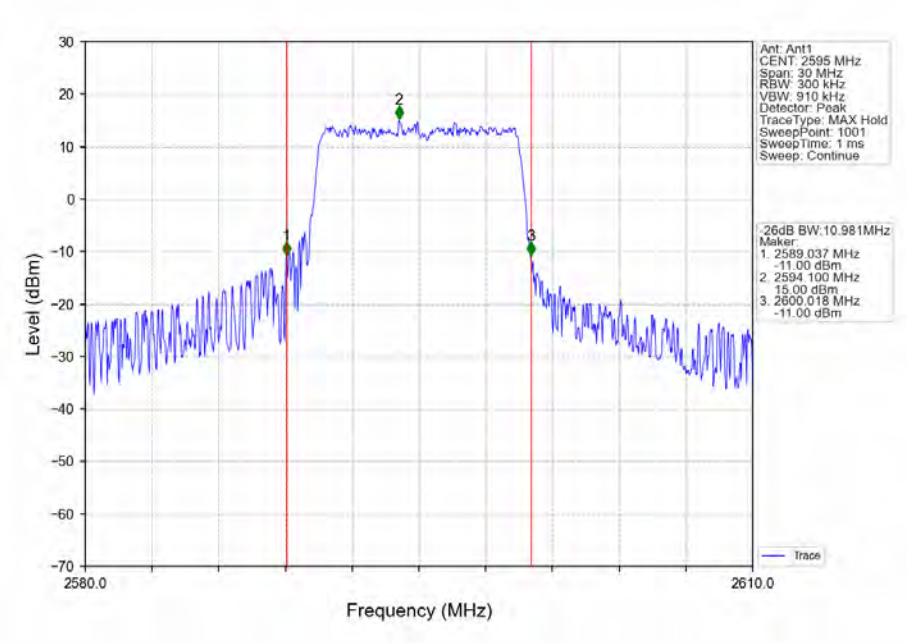
Band38_10MHz_256QAM_MCH_2595MHz_RB_50_0_NTNV



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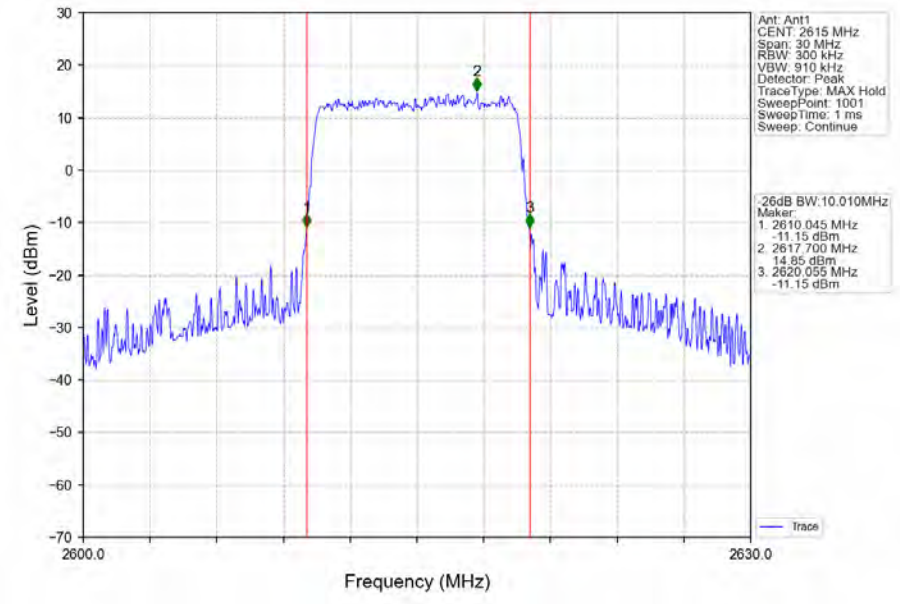

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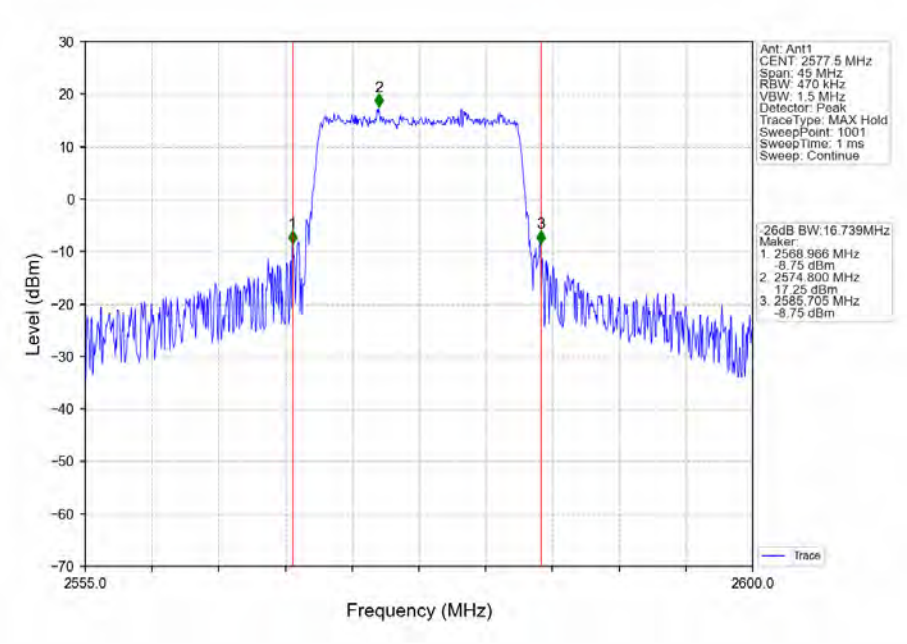
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV

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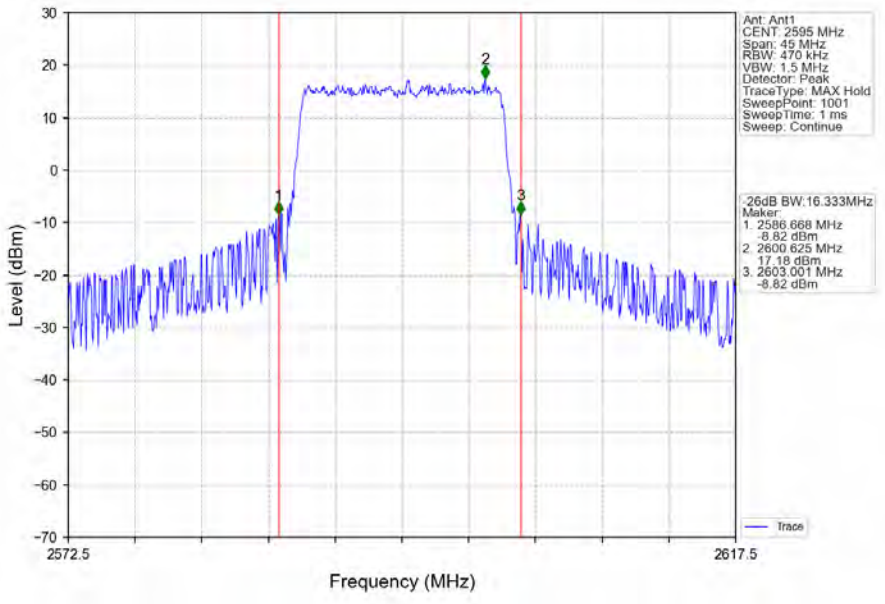

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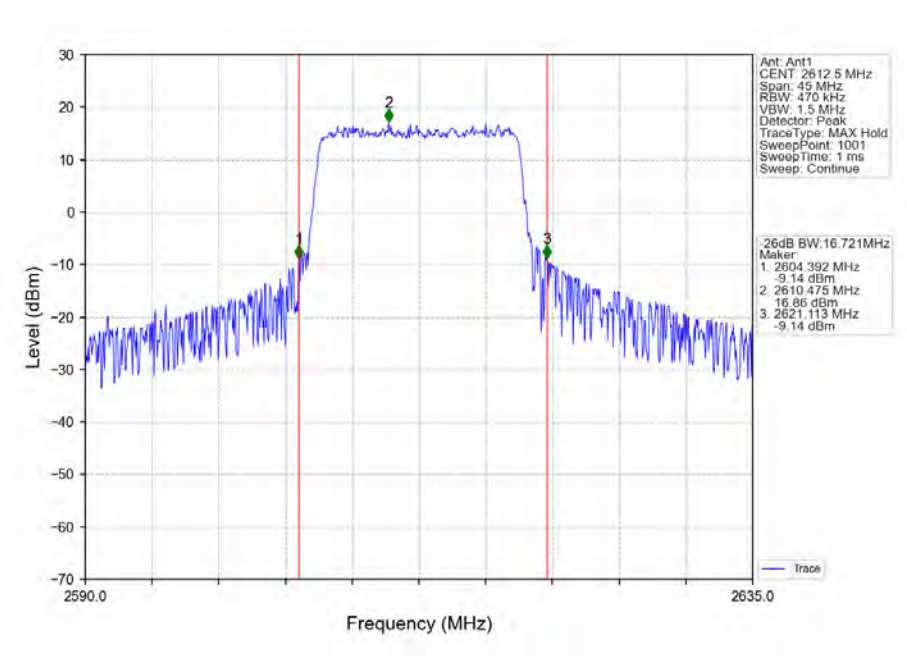
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



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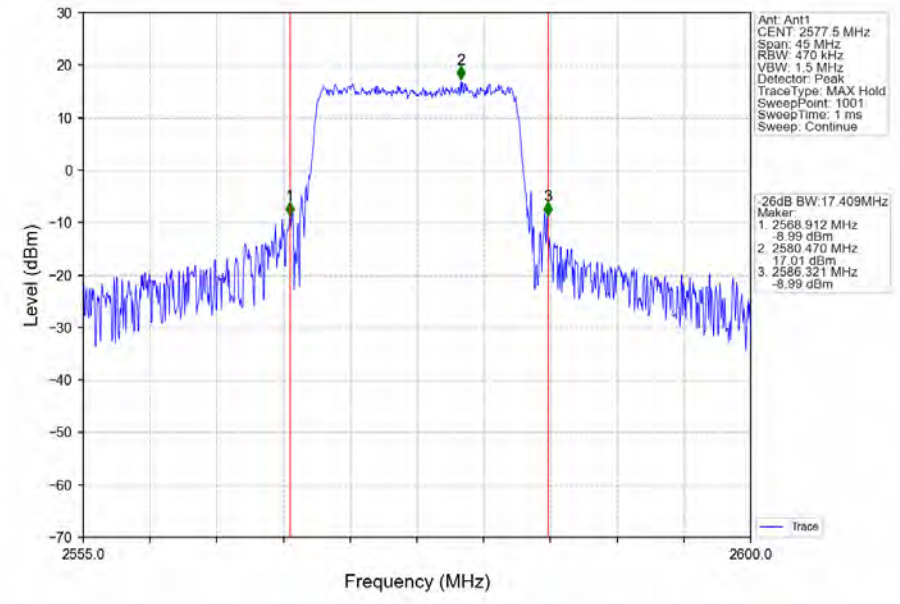

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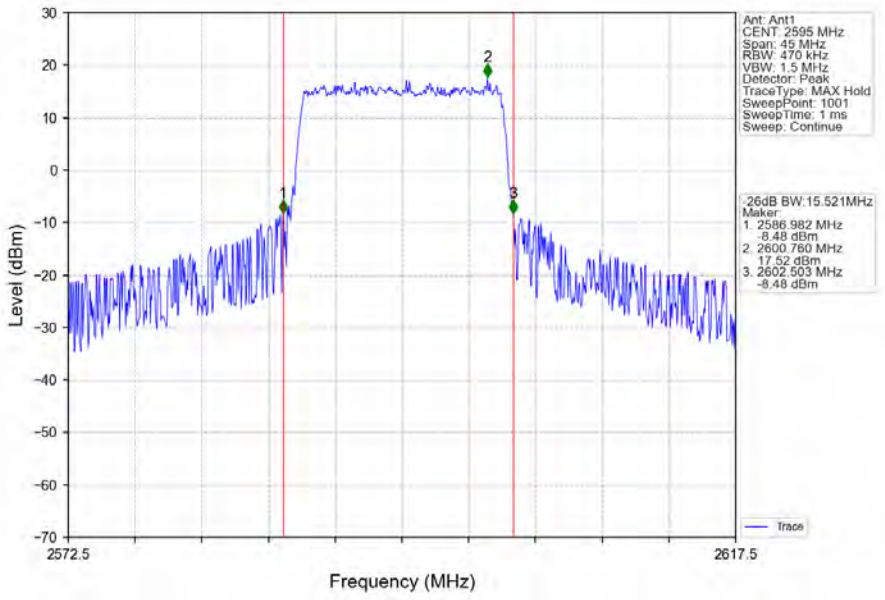

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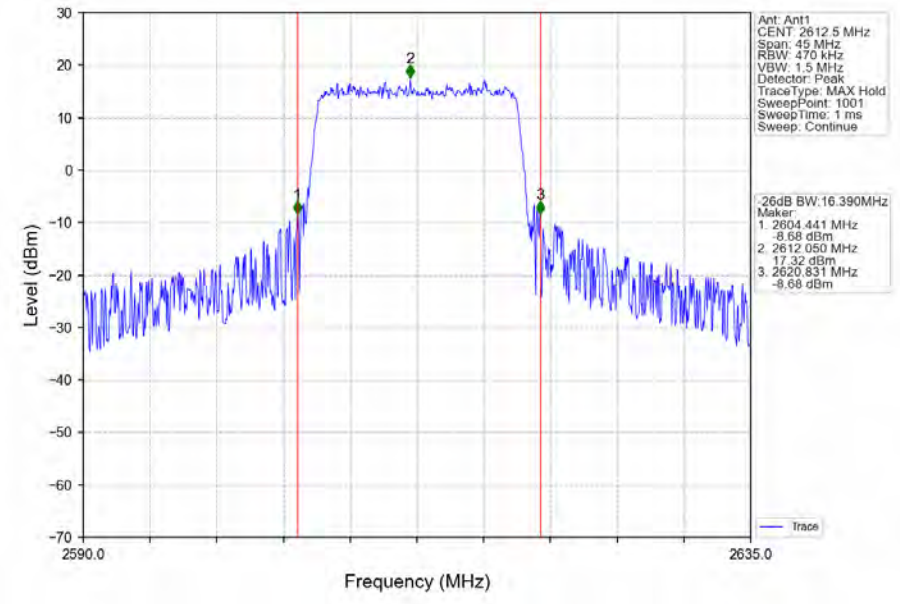

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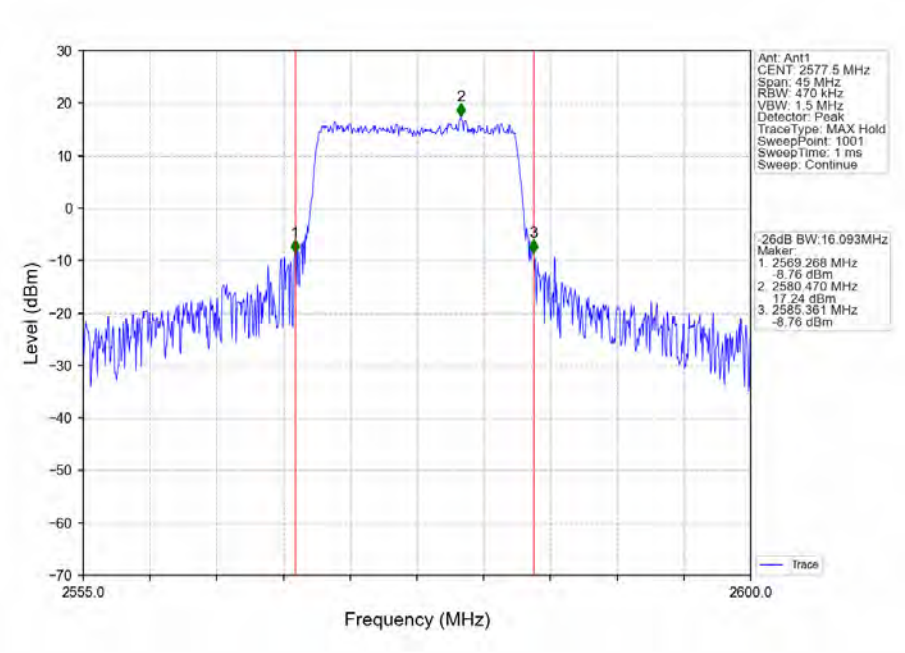

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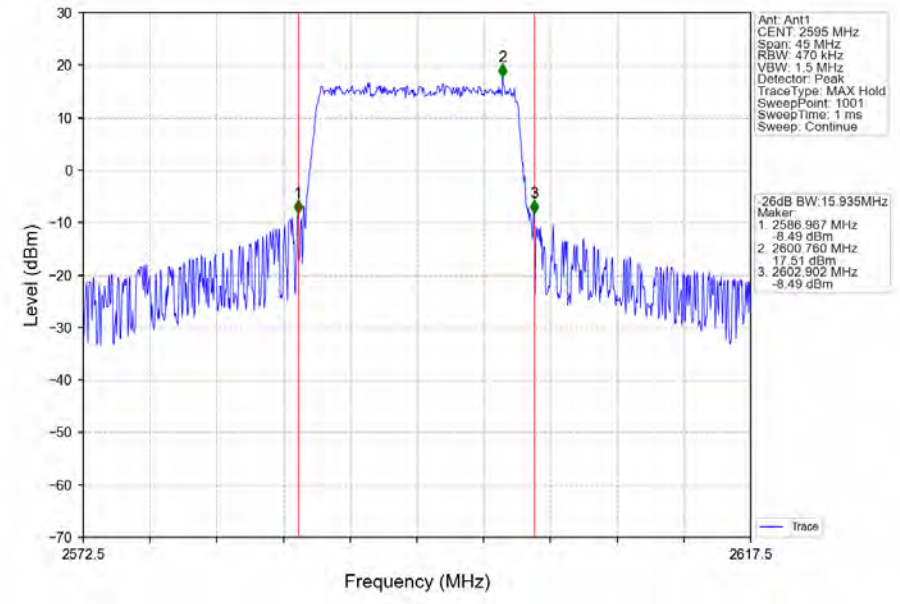

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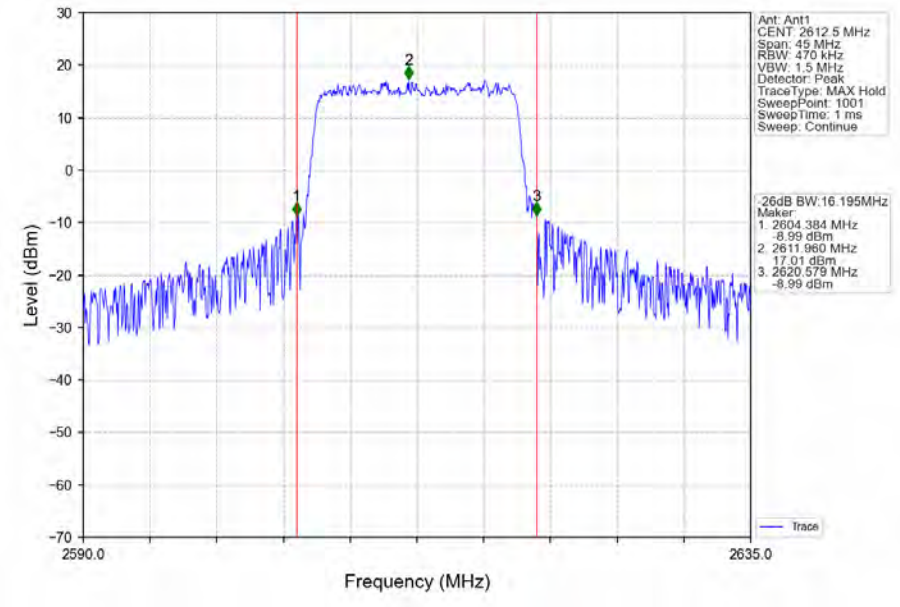

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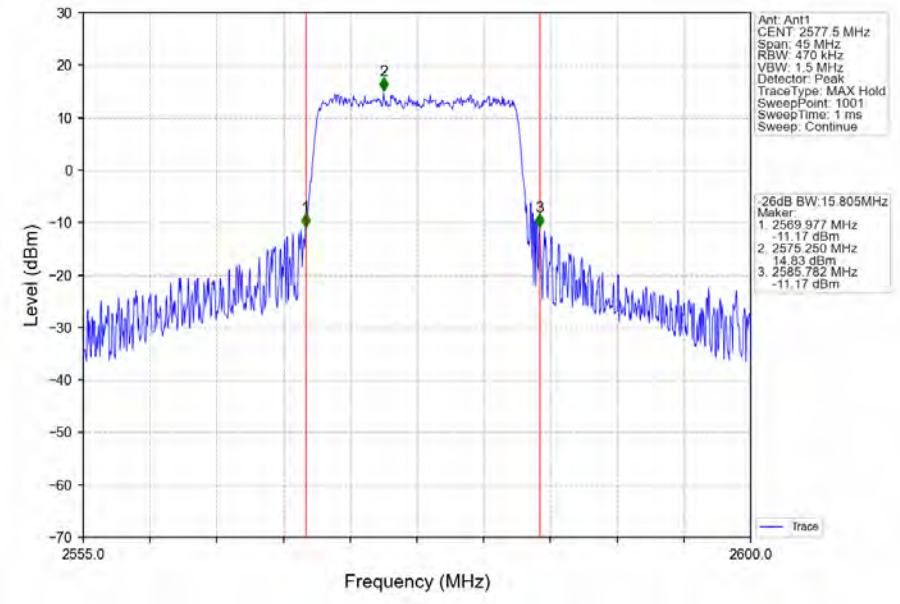

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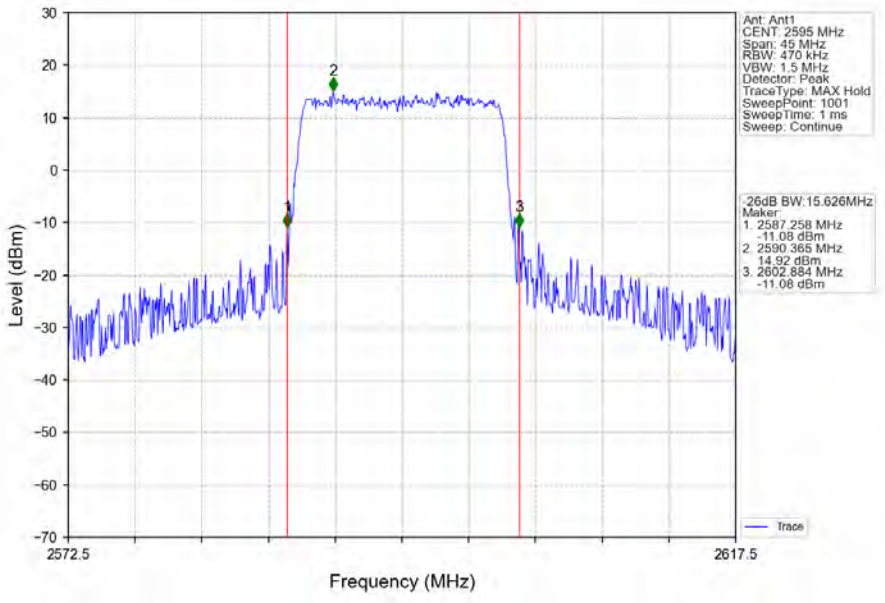
Band38_15MHz_256QAM_MCH_2595MHz_RB_75_0_NTNV



Band38_15MHz_256QAM_HCH_2612.5MHz_RB_75_0_NTNV

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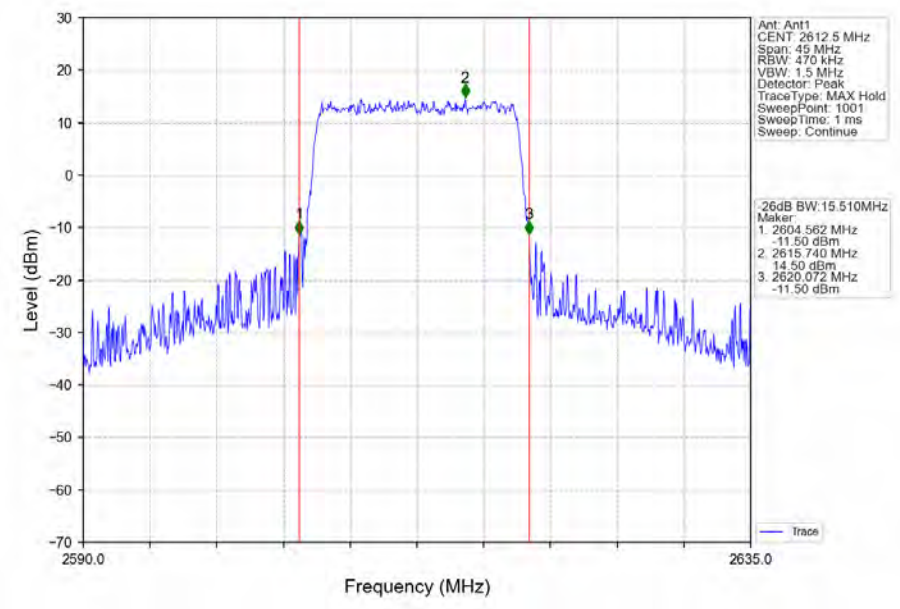

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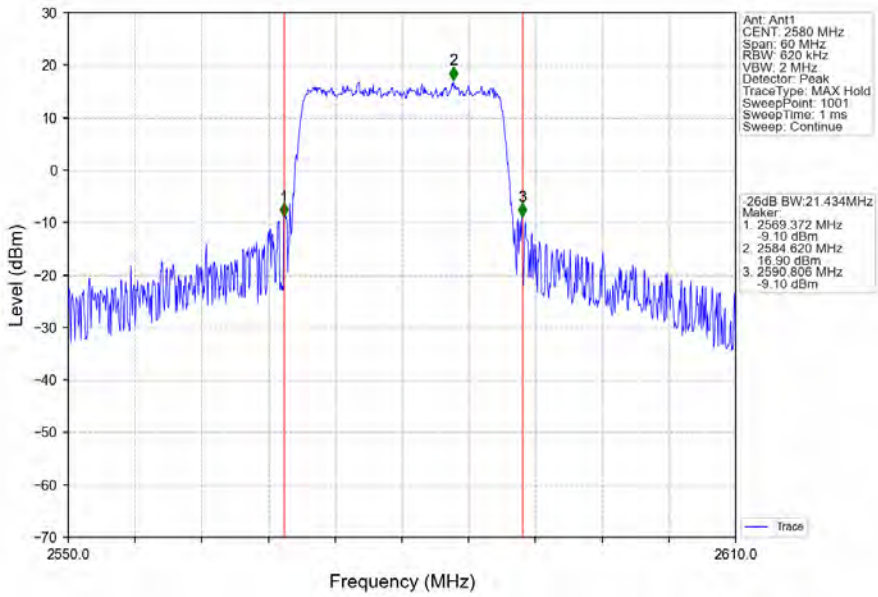
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



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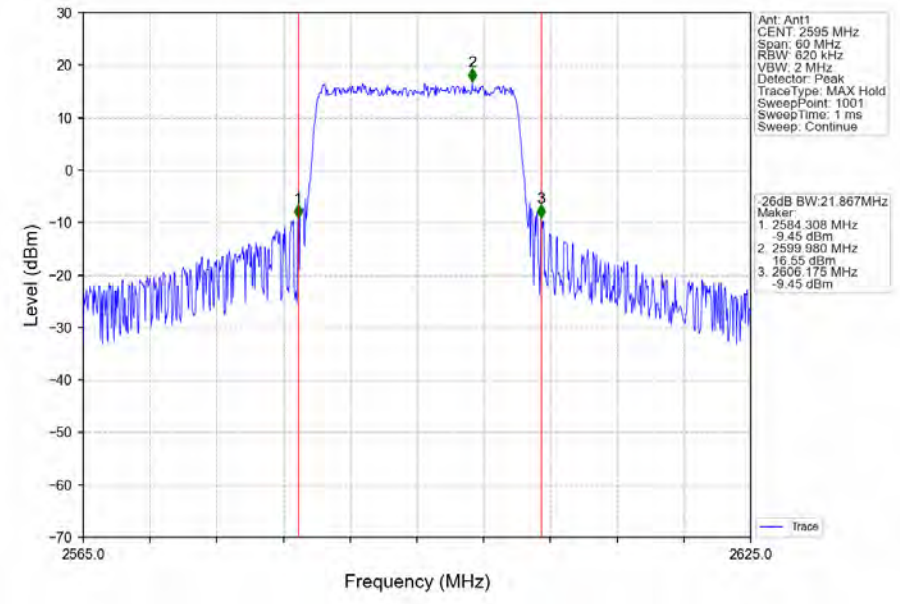

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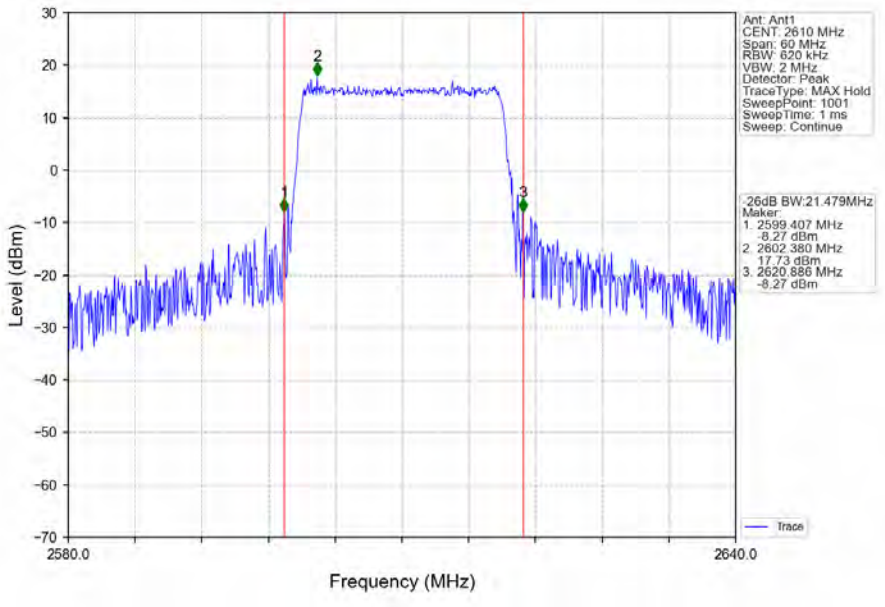

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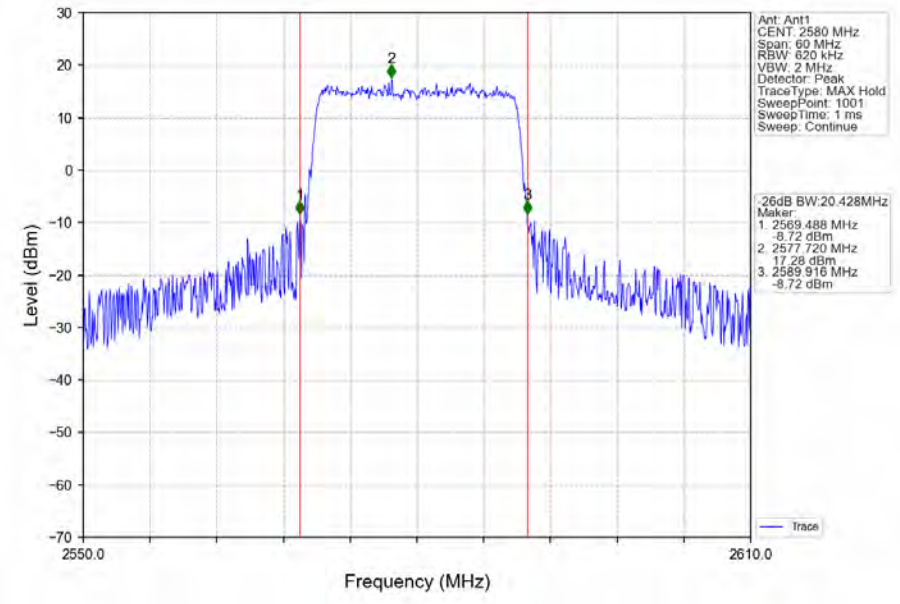

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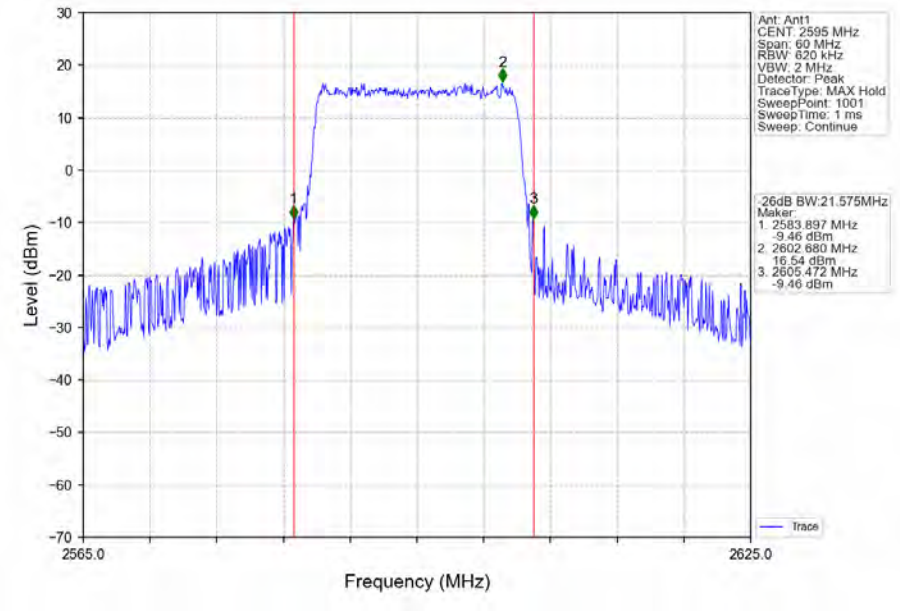

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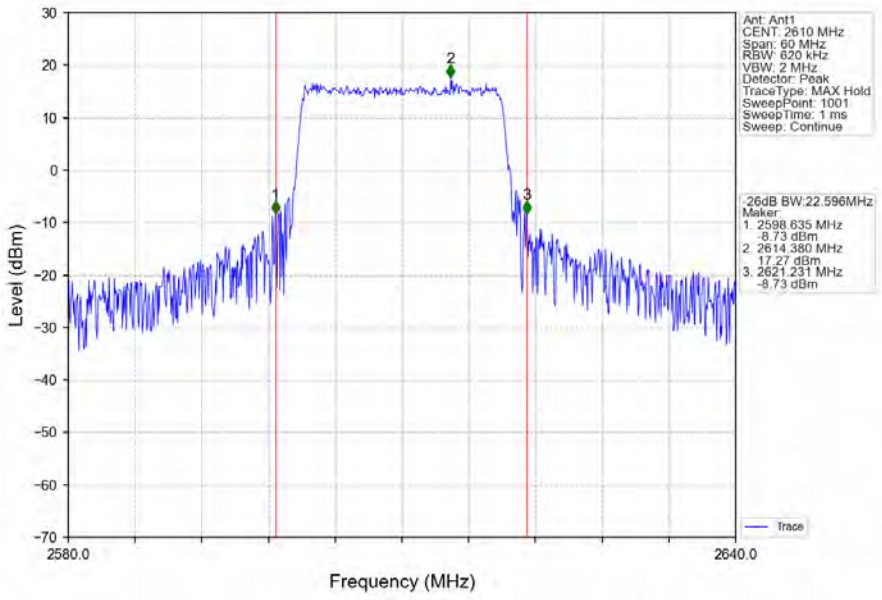

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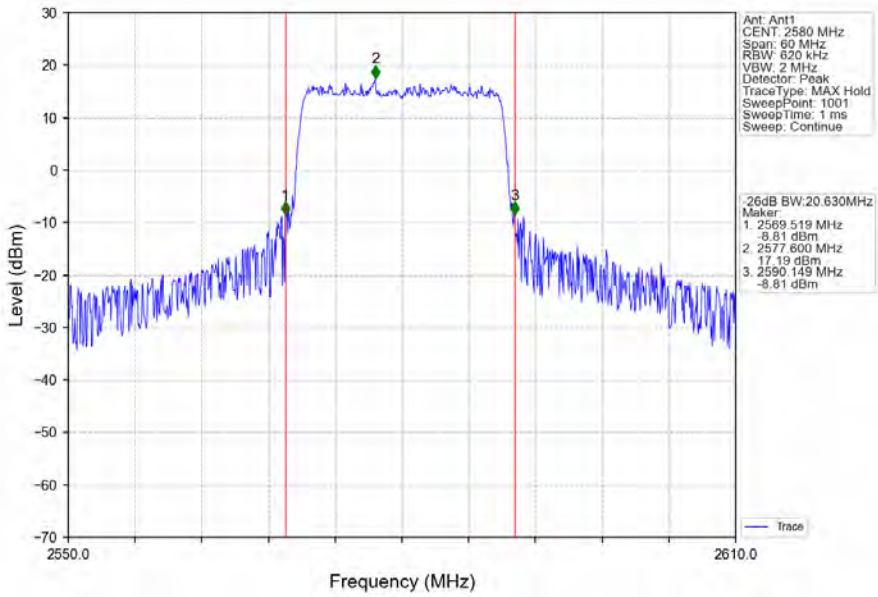

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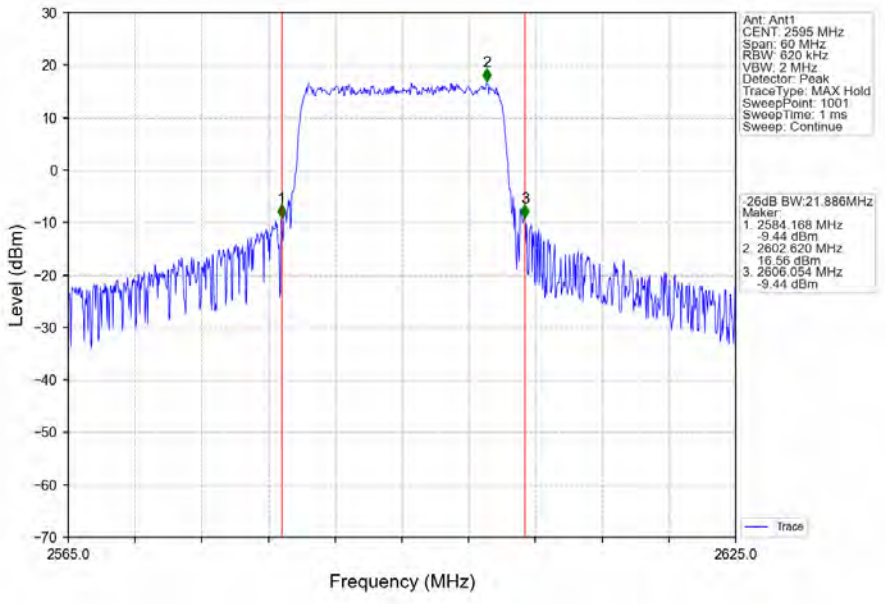

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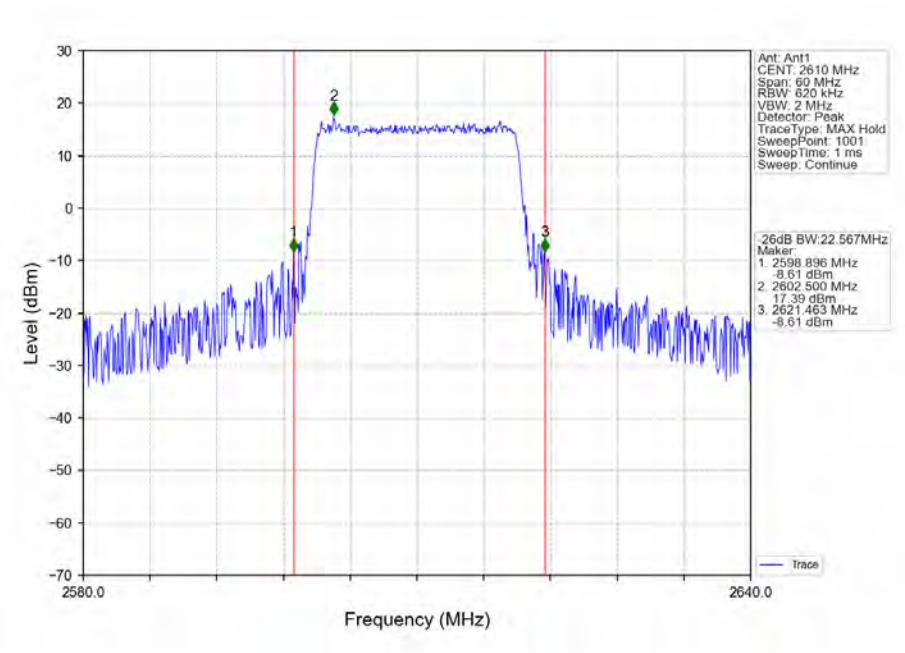

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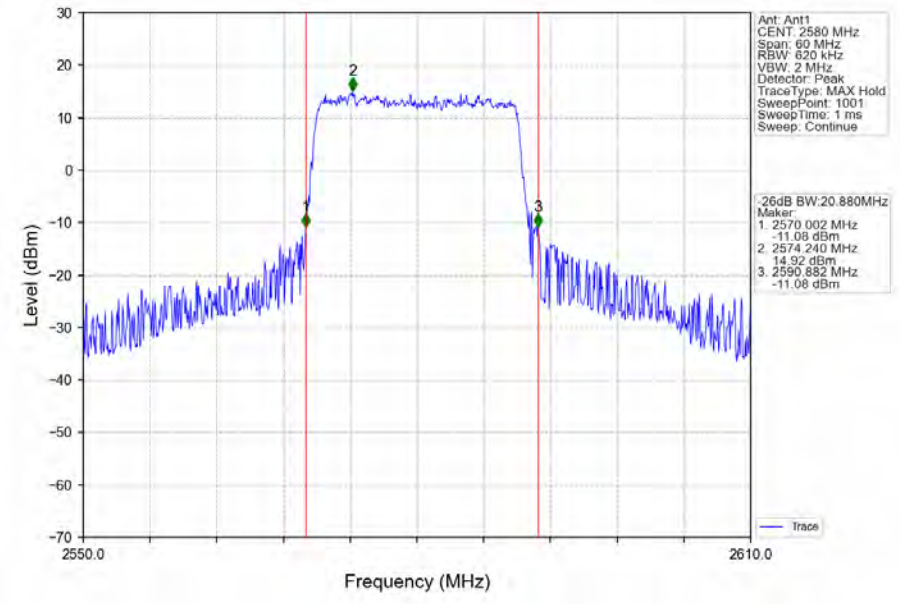

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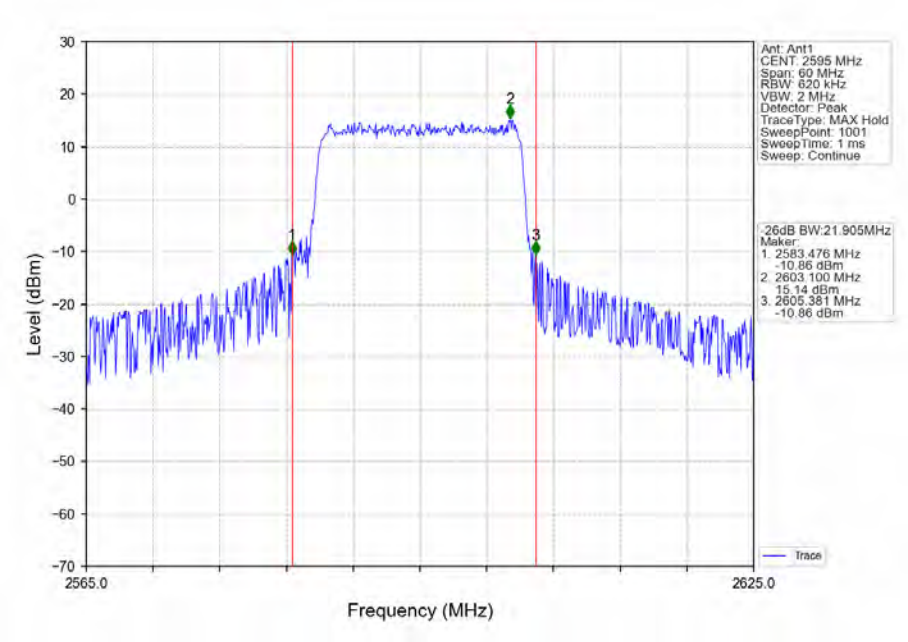

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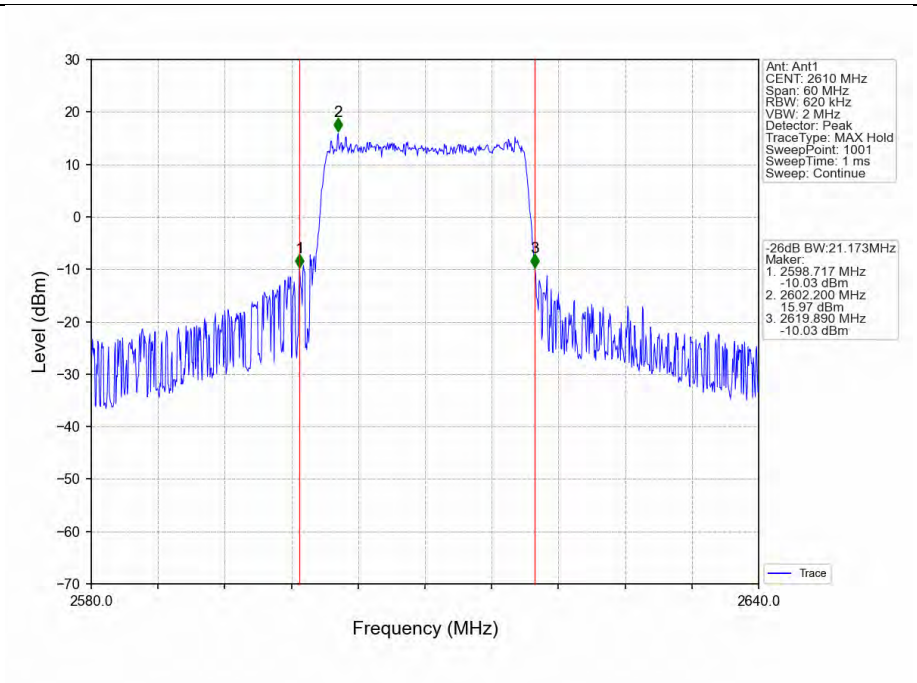

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4. Peak-Average Ratio

4.1 B38_5MHz

4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	8.58	<=13	Pass
	2595	25	0	8.62	<=13	Pass
	2617.5	25	0	8.52	<=13	Pass
16QAM	2572.5	25	0	8.65	<=13	Pass
	2595	25	0	8.75	<=13	Pass
	2617.5	25	0	8.52	<=13	Pass
64QAM	2572.5	25	0	8.75	<=13	Pass
	2595	25	0	8.49	<=13	Pass
	2617.5	25	0	8.46	<=13	Pass
256QAM	2572.5	25	0	8.78	<=13	Pass
	2595	25	0	8.74	<=13	Pass
	2617.5	25	0	8.67	<=13	Pass

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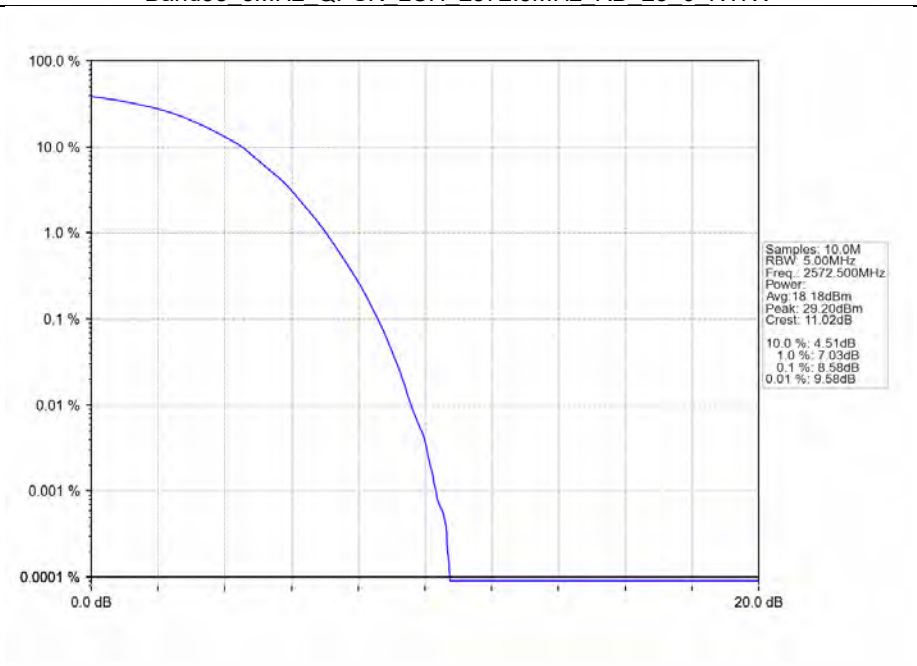
4.1.2 Test Graph

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV

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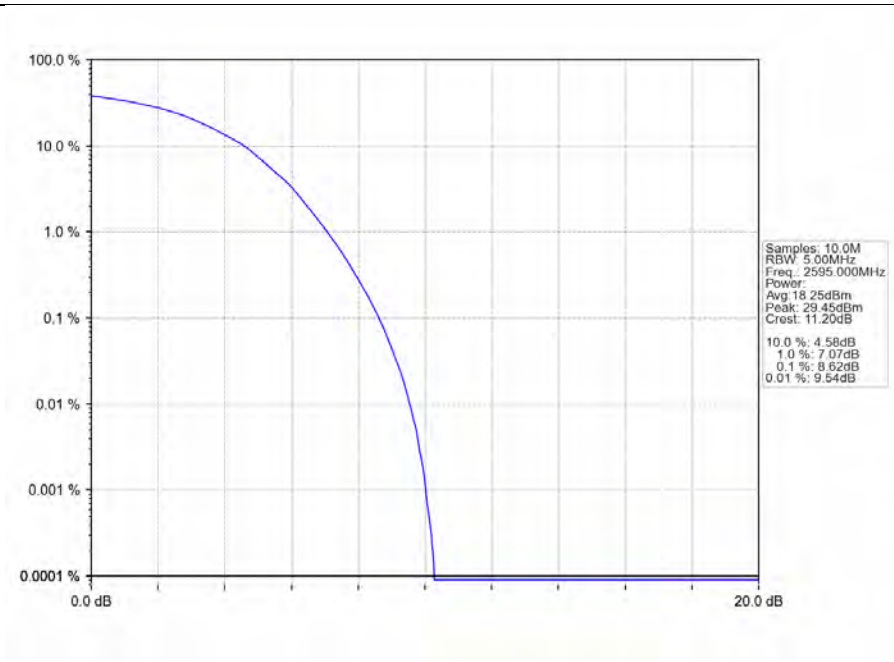

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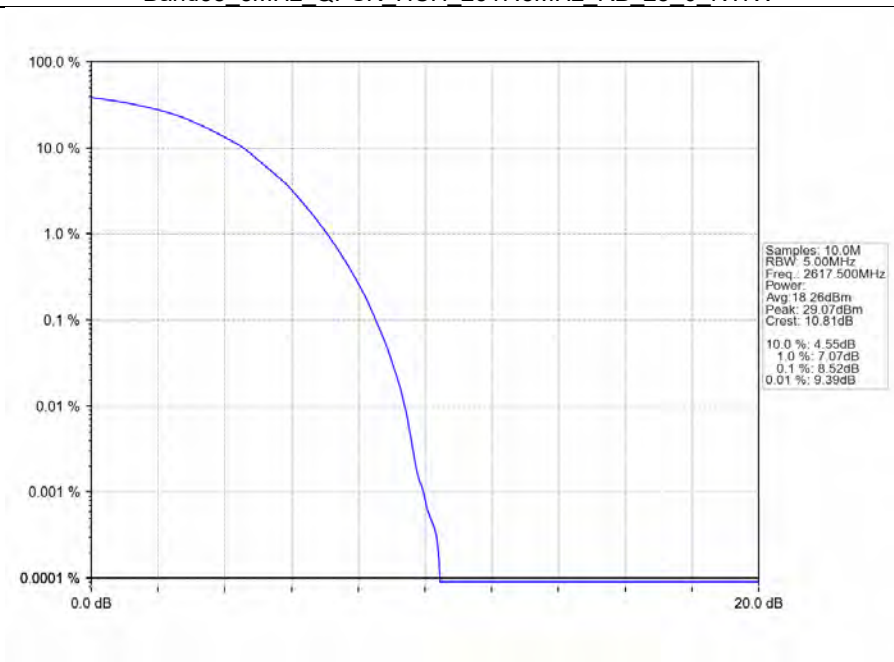
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV

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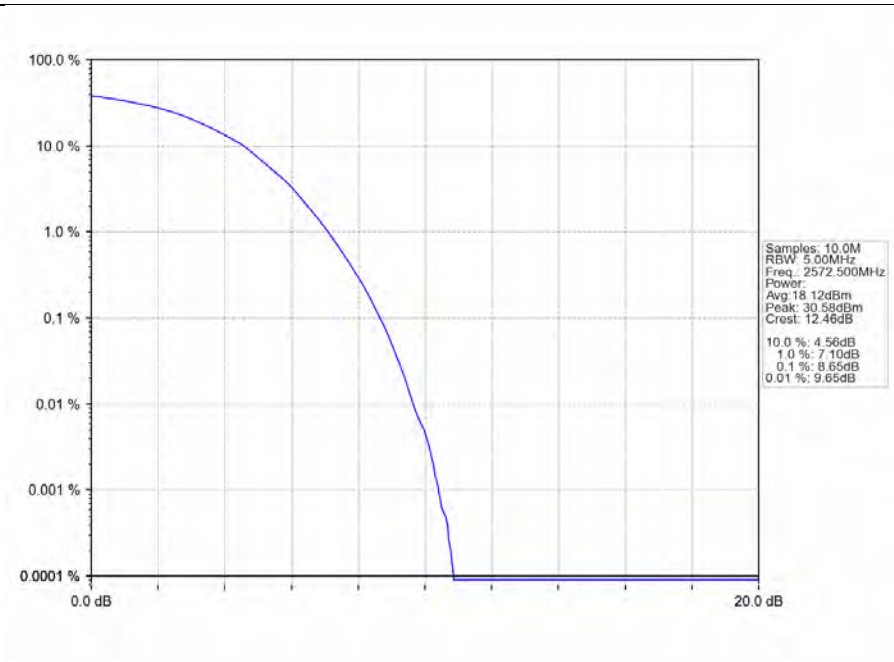

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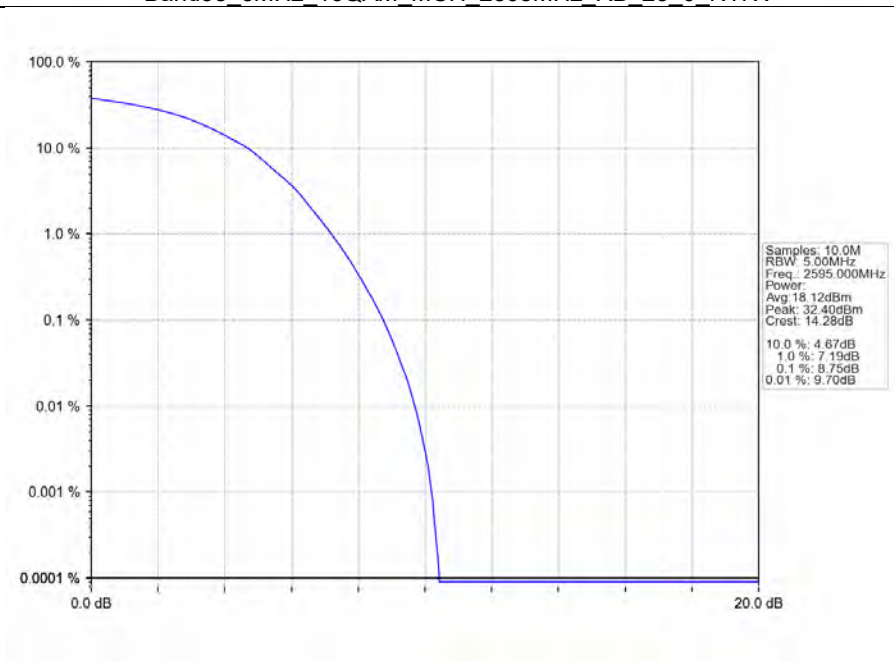
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV

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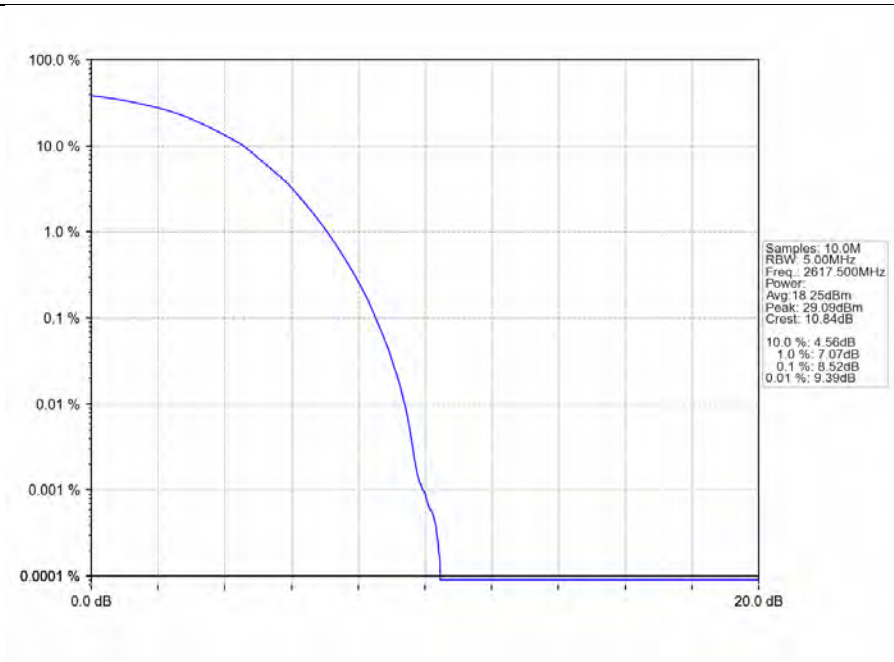

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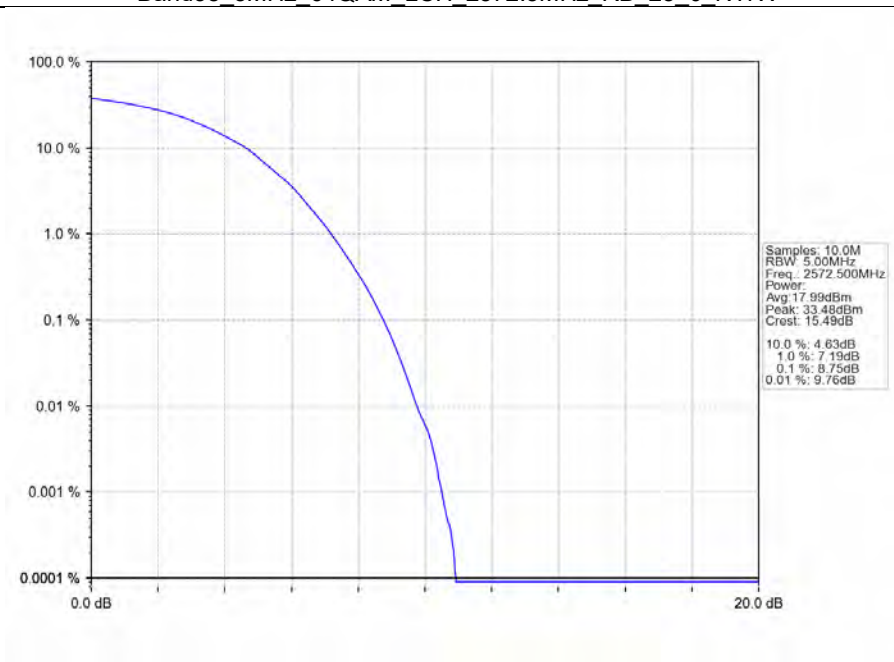
Band38_5MHz_64QAM_LCH_2572.5MHz_RB_25_0_NTNV



Band38_5MHz_64QAM_MCH_2595MHz_RB_25_0_NTNV

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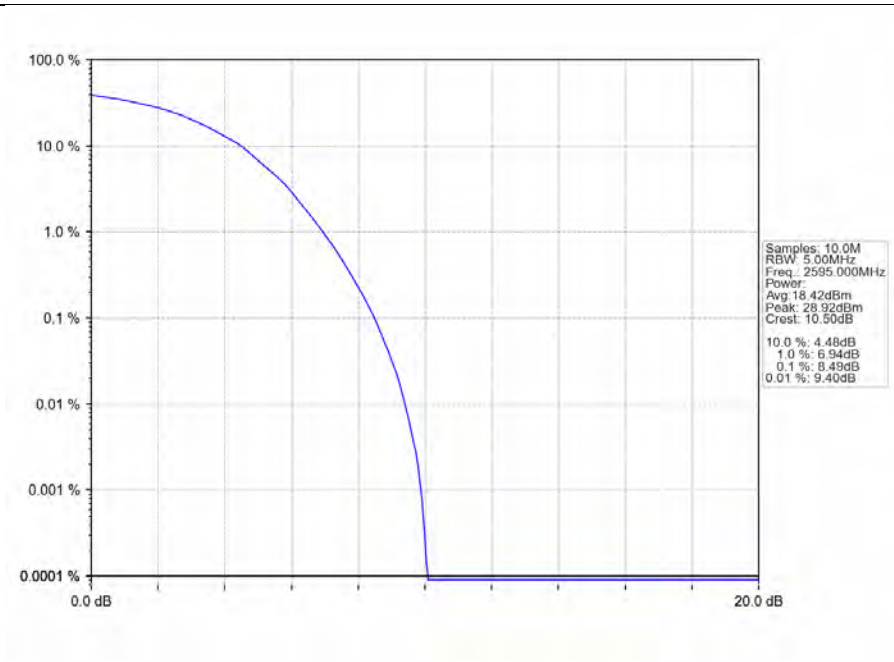

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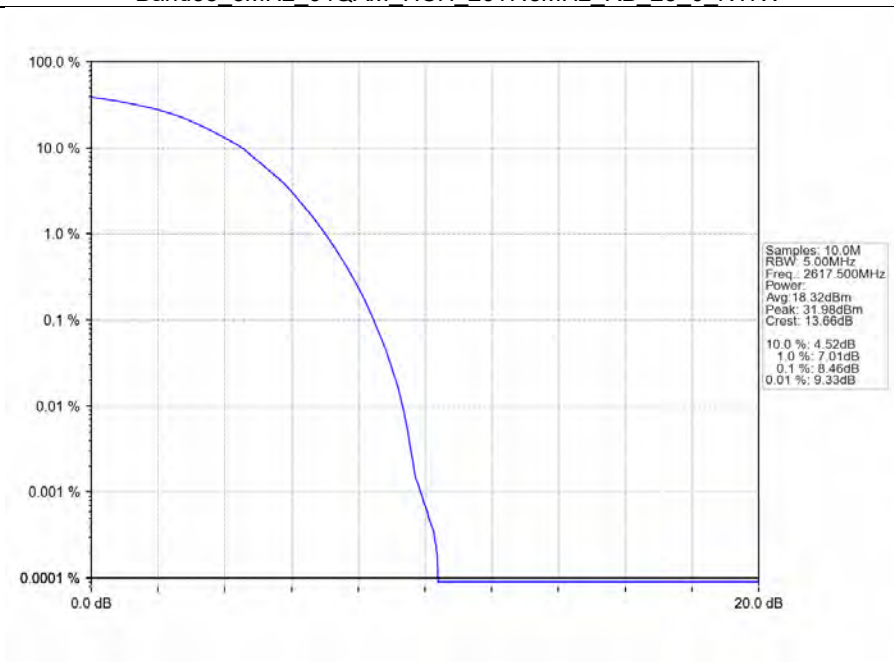

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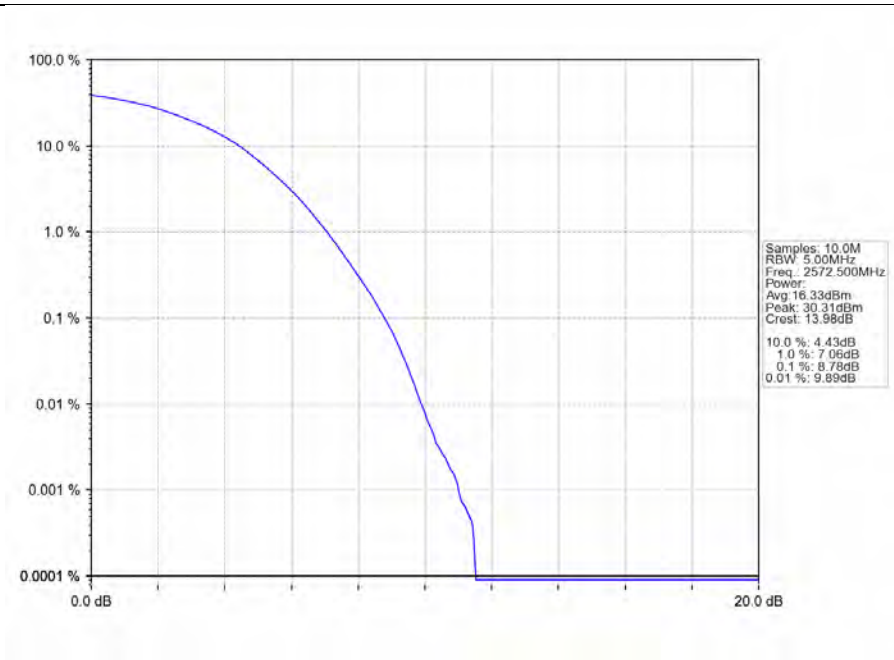

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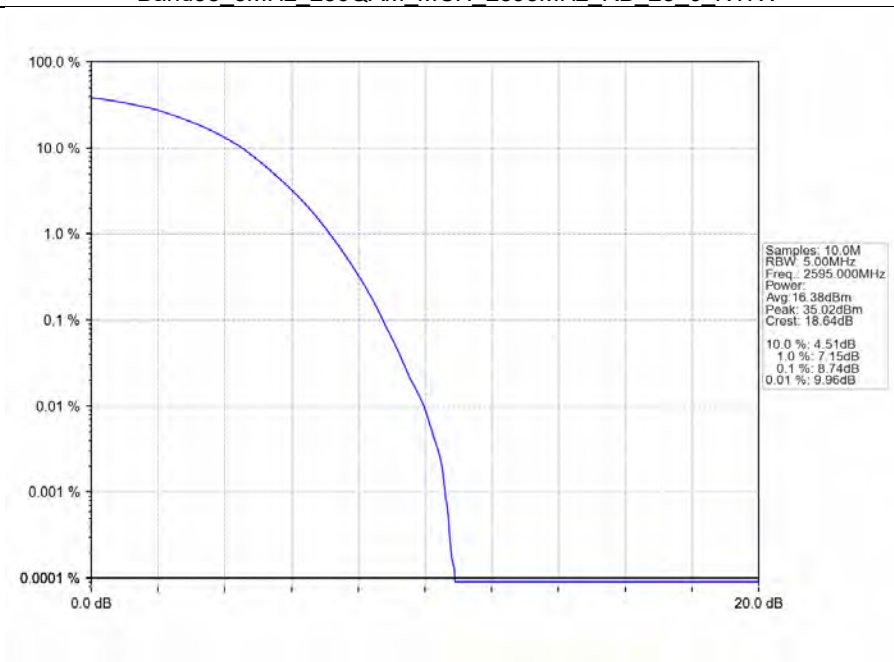
Band38_5MHz_256QAM_MCH_2595MHz_RB_25_0_NTNV



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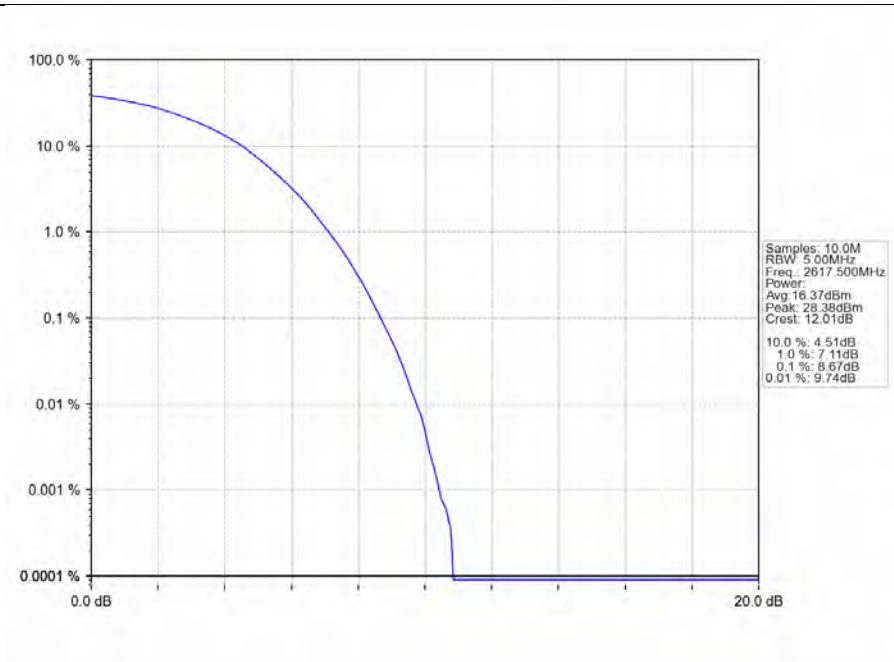

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4.2 B38_10MHz

4.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	8.63	<=13	Pass
	2595	50	0	8.54	<=13	Pass
	2615	50	0	8.62	<=13	Pass
16QAM	2575	50	0	8.67	<=13	Pass
	2595	50	0	8.50	<=13	Pass
	2615	50	0	8.51	<=13	Pass
64QAM	2575	50	0	8.46	<=13	Pass
	2595	50	0	8.39	<=13	Pass
	2615	50	0	8.56	<=13	Pass
256QAM	2575	50	0	8.92	<=13	Pass
	2595	50	0	8.55	<=13	Pass
	2615	50	0	8.66	<=13	Pass

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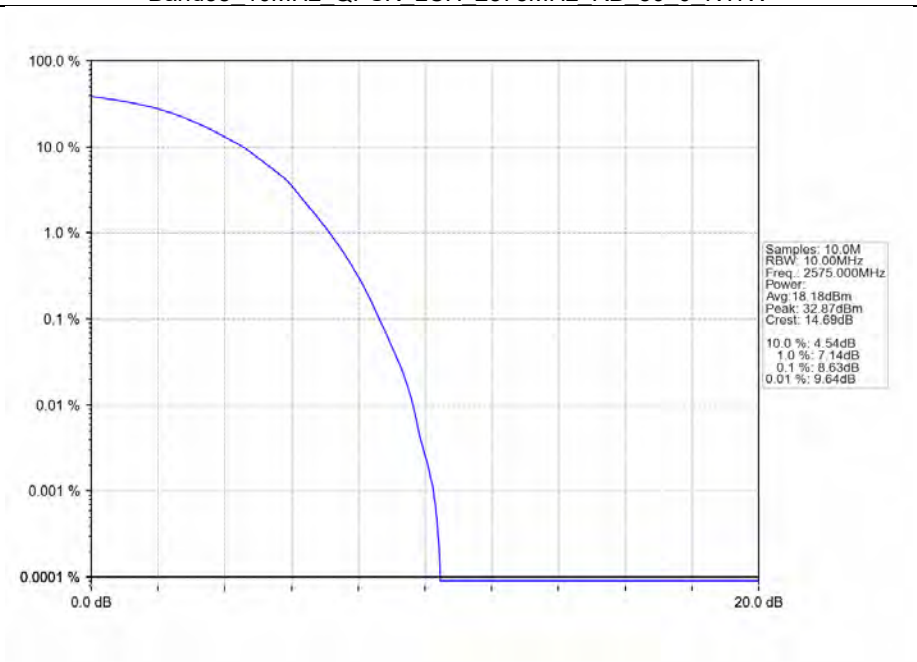
4.2.2 Test Graph

Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV

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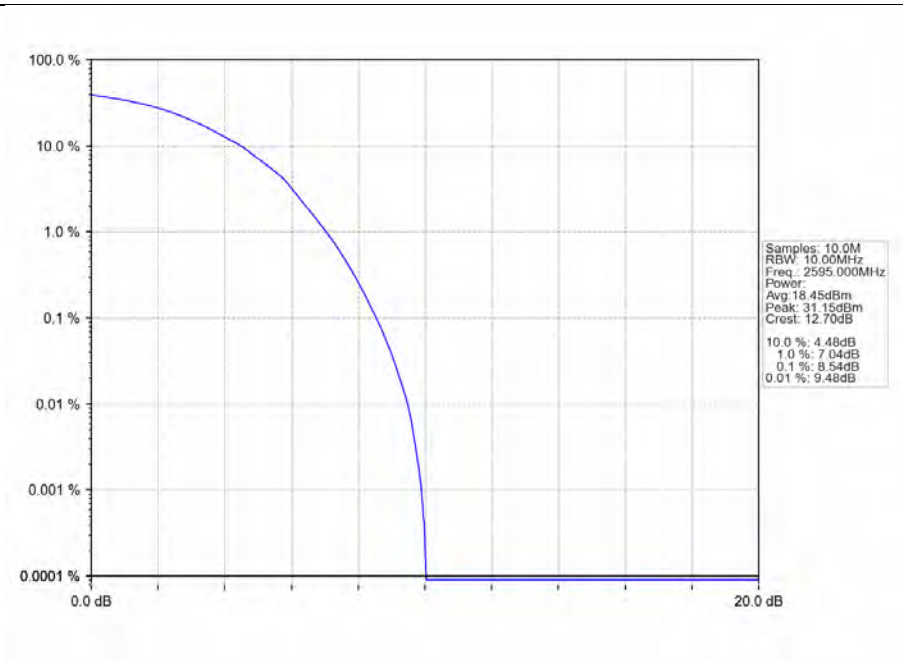

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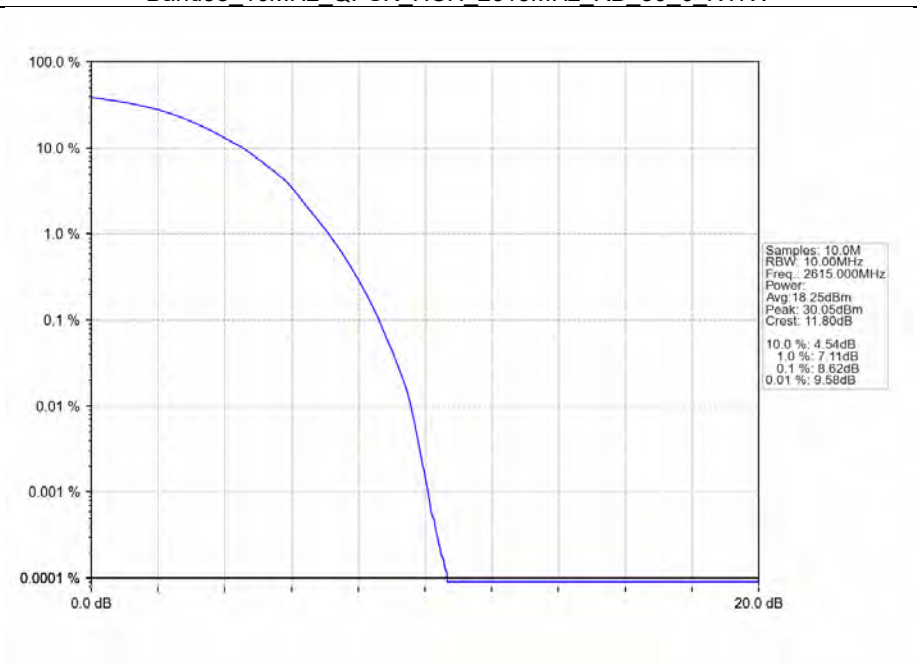
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV

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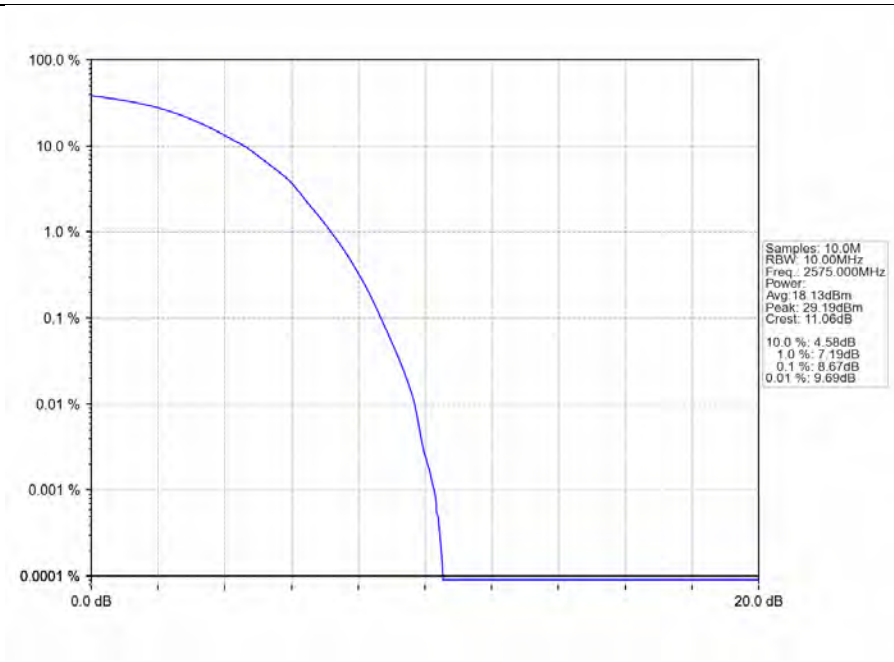

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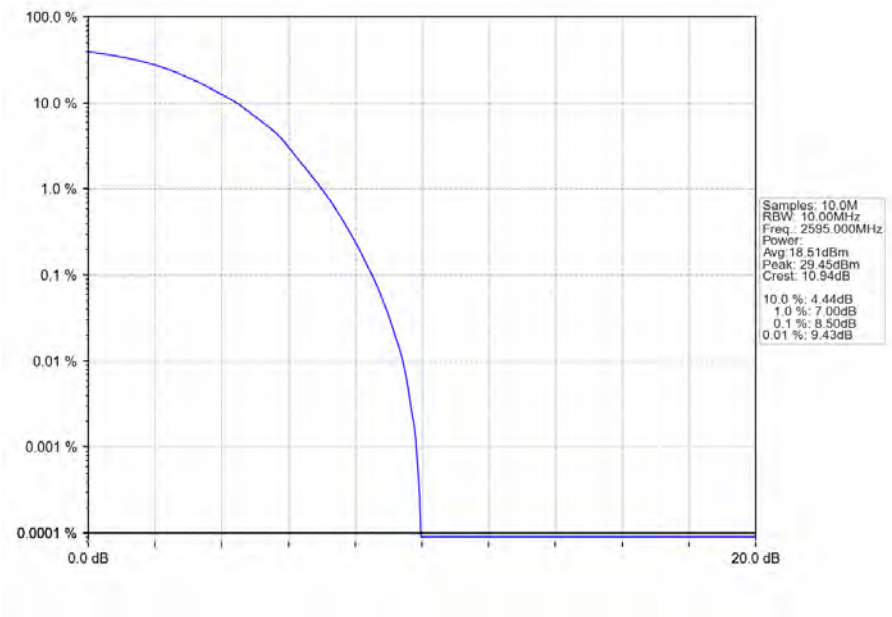
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV

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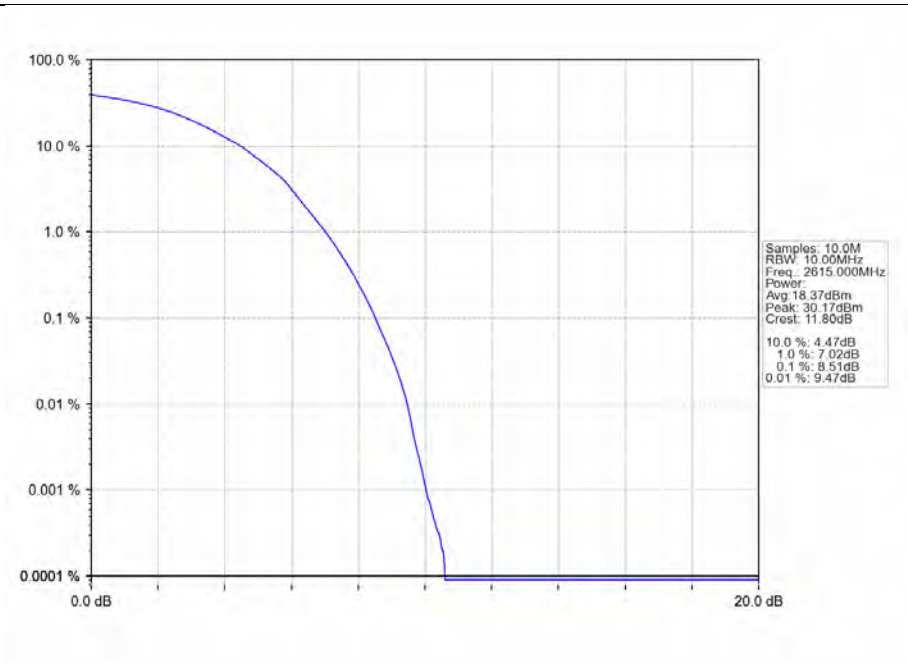

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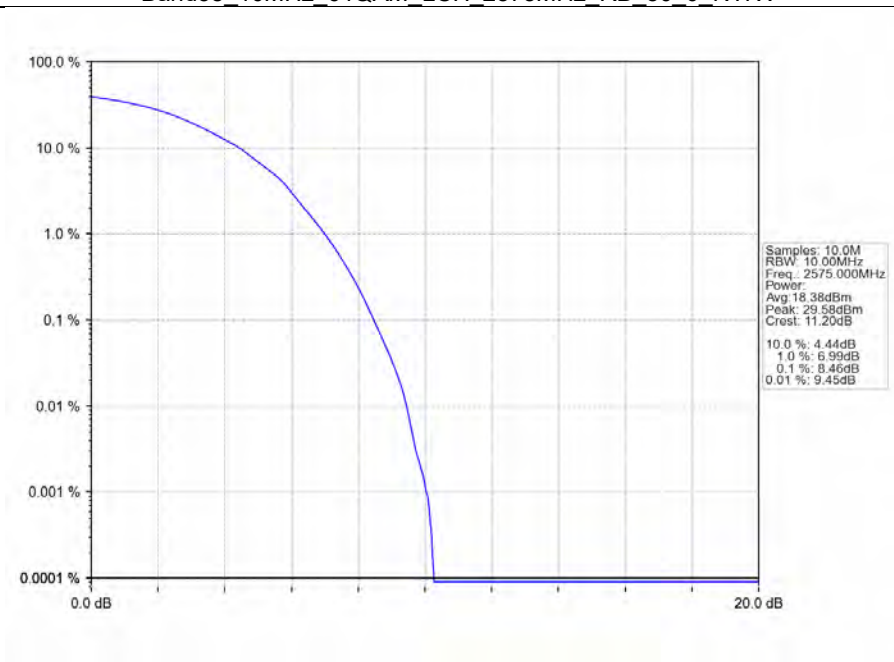
Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV



Band38_10MHz_64QAM_MCH_2595MHz_RB_50_0_NTNV

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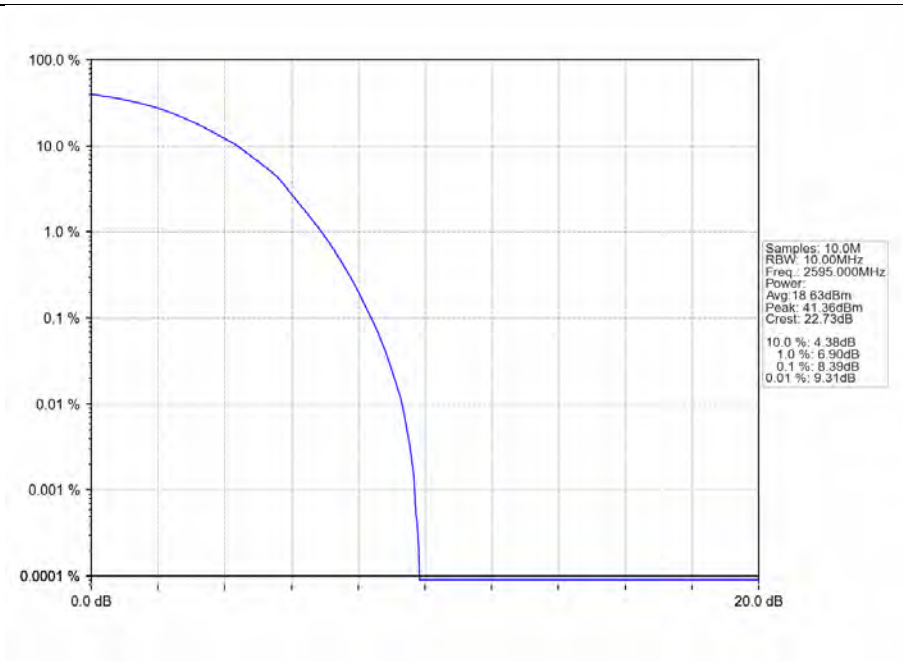

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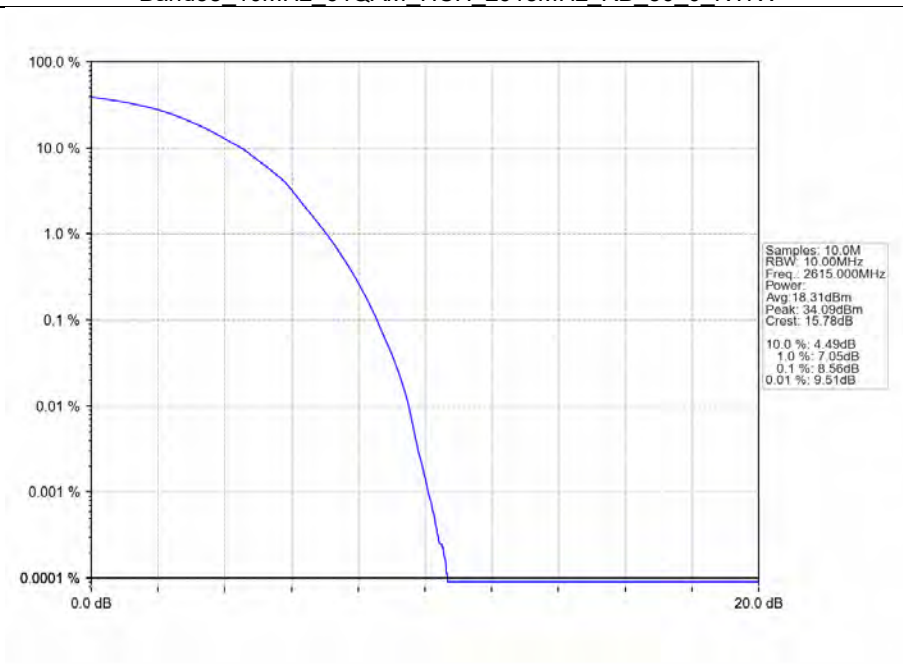

Band38_10MHz_256QAM_LCH_2575MHz_RB_50_0_NTNV

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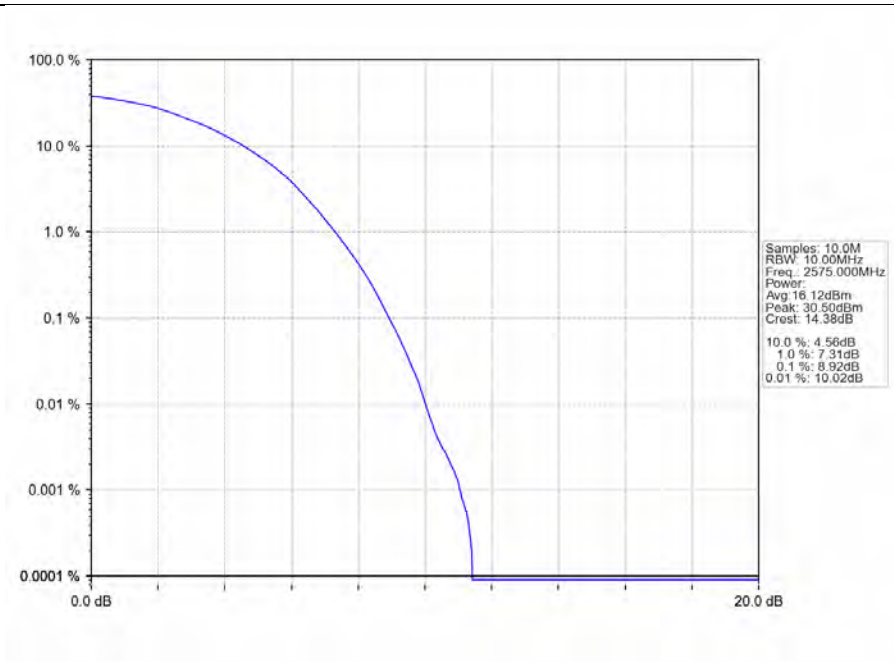

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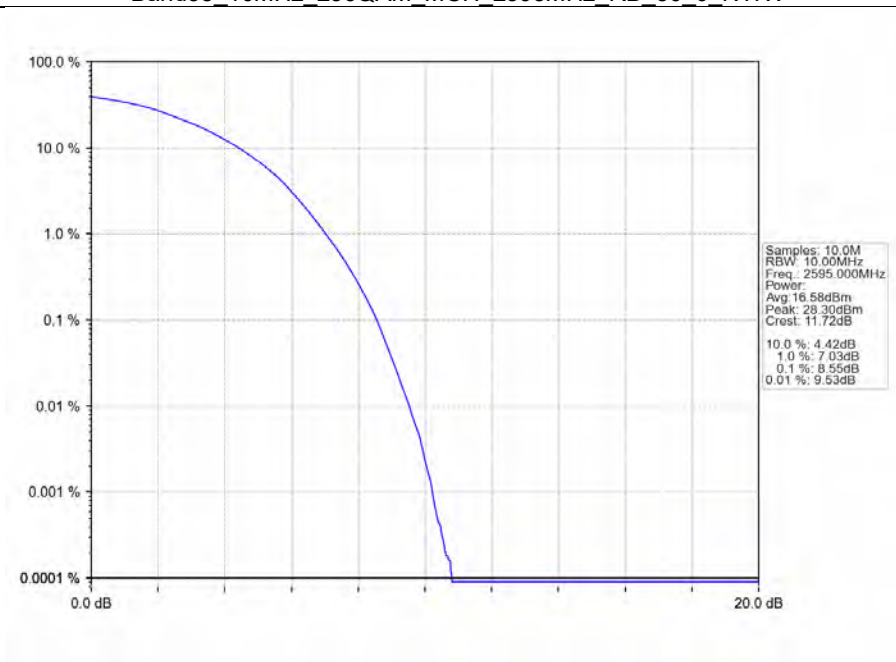
Band38_10MHz_256QAM_MCH_2595MHz_RB_50_0_NTNV



Band38_10MHz_256QAM_HCH_2615MHz_RB_50_0_NTNV

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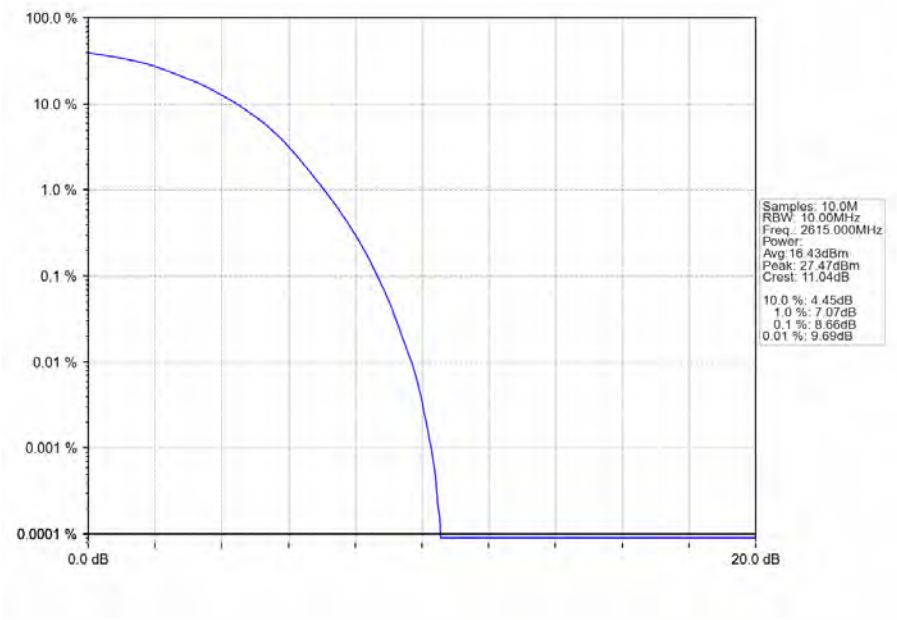

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4.3 B38_15MHz

4.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	8.48	<=13	Pass
	2595	75	0	8.57	<=13	Pass
	2612.5	75	0	8.45	<=13	Pass
16QAM	2577.5	75	0	8.45	<=13	Pass
	2595	75	0	8.65	<=13	Pass
	2612.5	75	0	8.84	<=13	Pass
64QAM	2577.5	75	0	8.53	<=13	Pass
	2595	75	0	8.59	<=13	Pass
	2612.5	75	0	8.44	<=13	Pass
256QAM	2577.5	75	0	8.85	<=13	Pass
	2595	75	0	8.66	<=13	Pass
	2612.5	75	0	8.86	<=13	Pass

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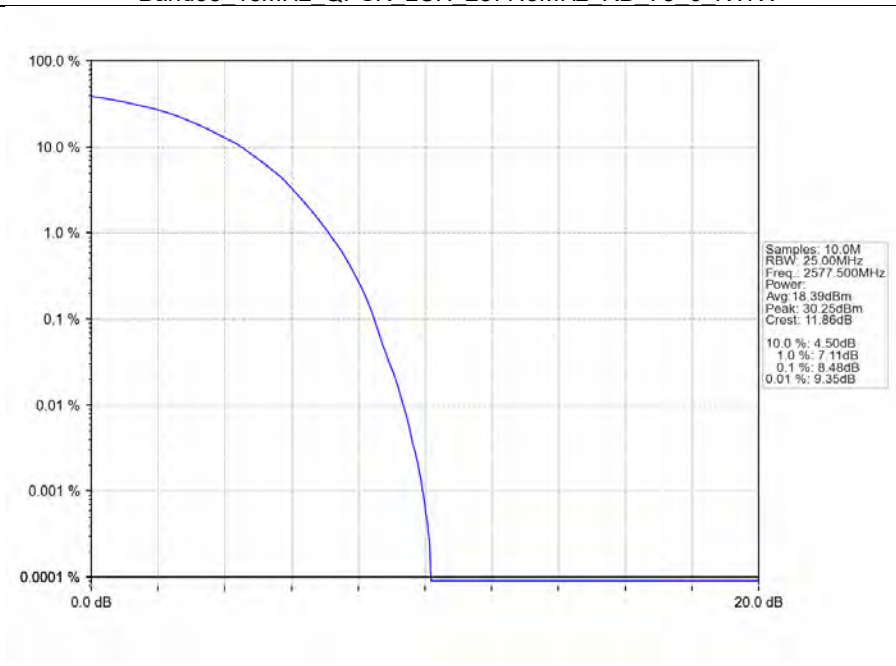
4.3.2 Test Graph

Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV

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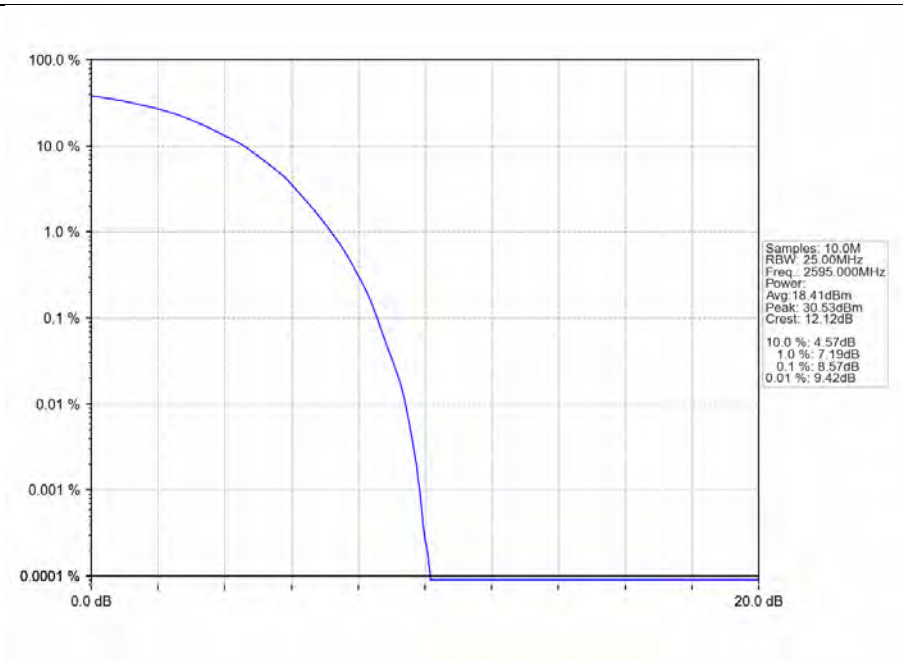

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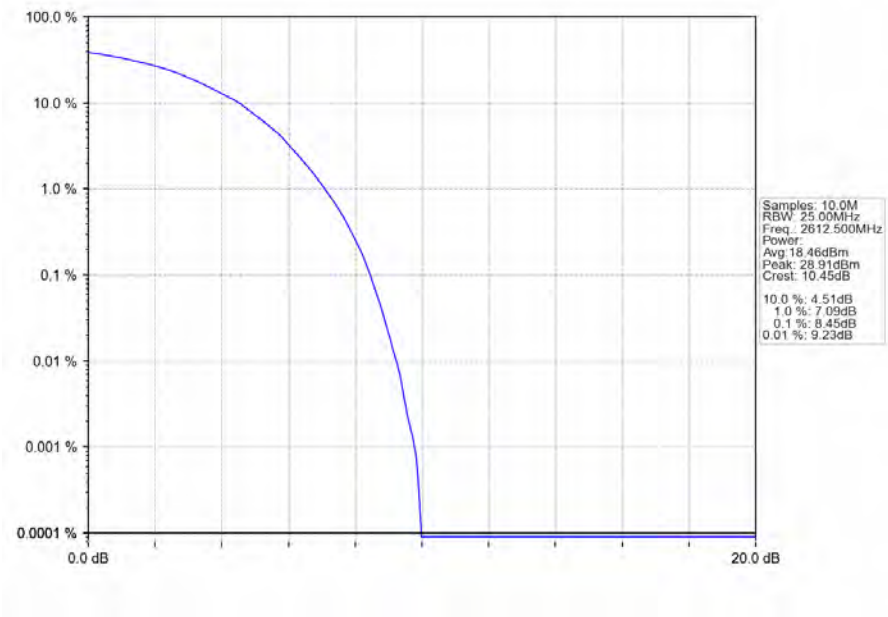
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV

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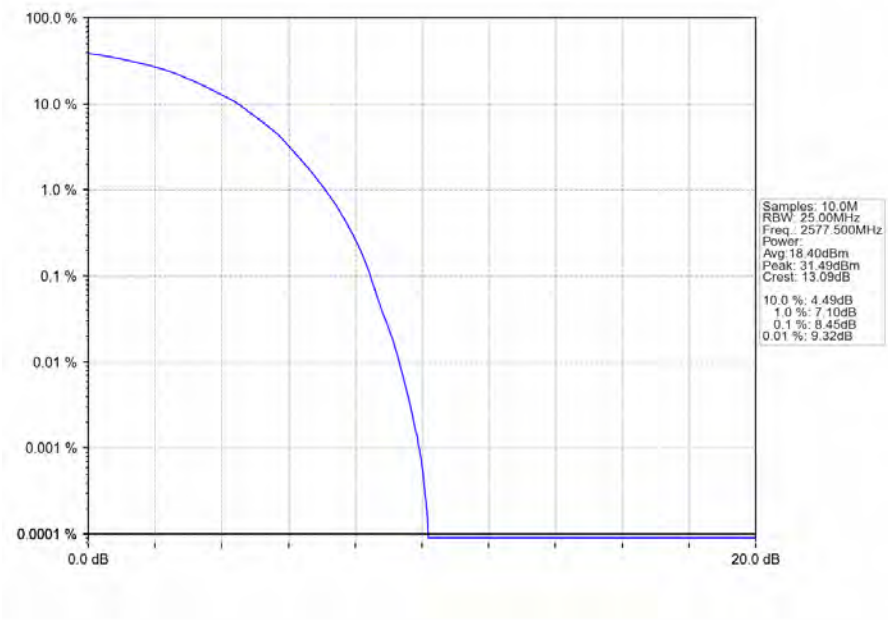

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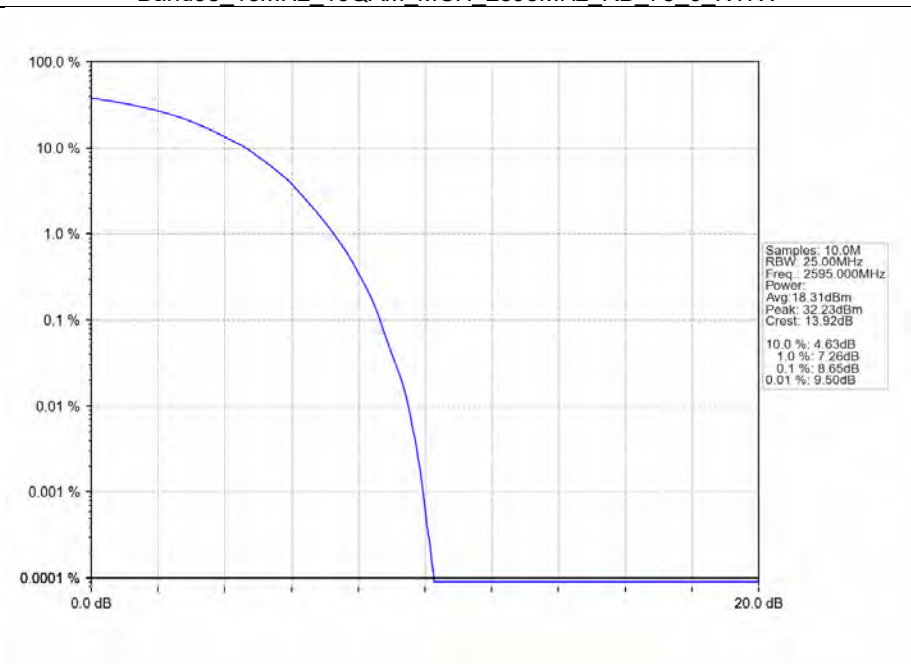
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



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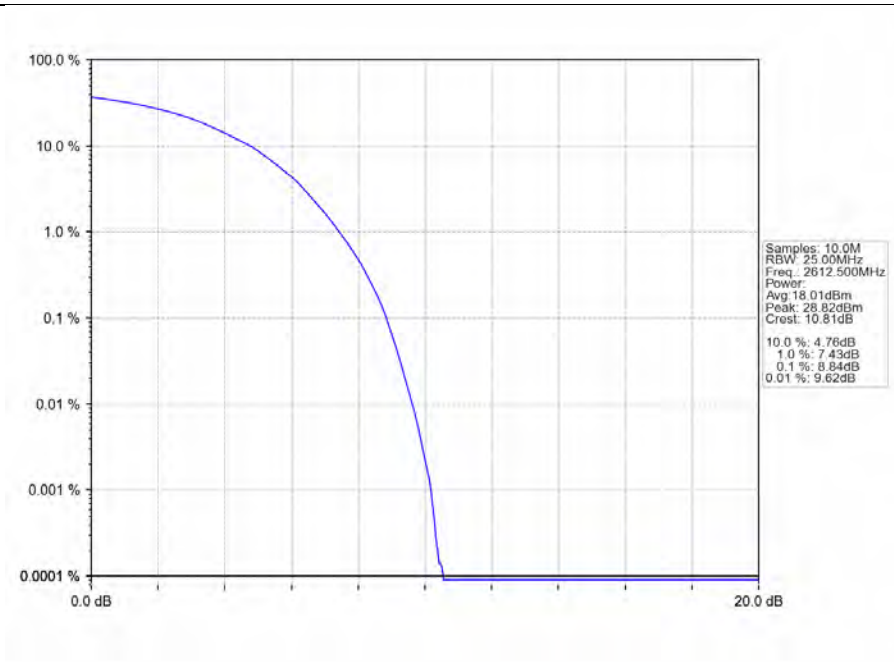

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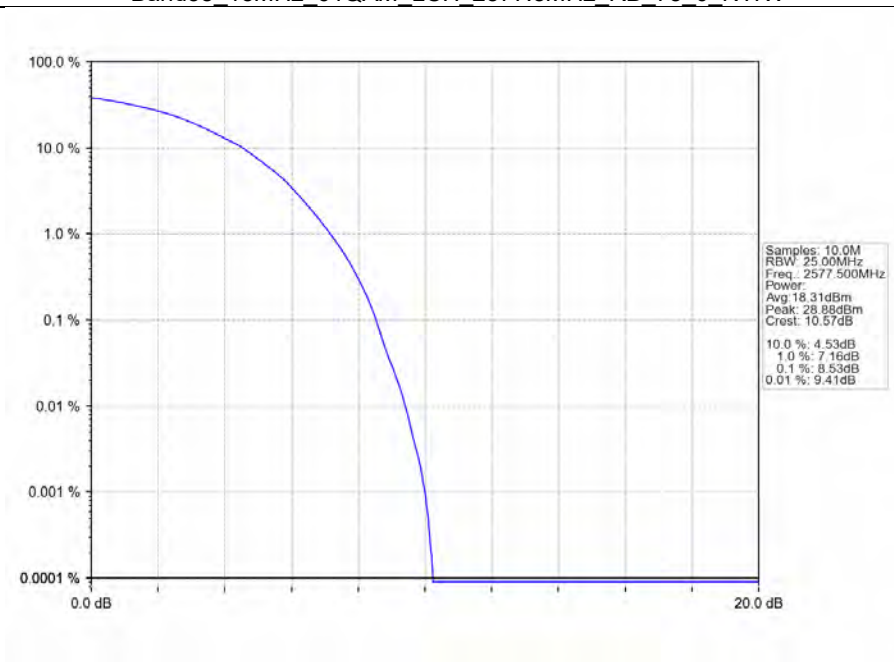
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV



Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV

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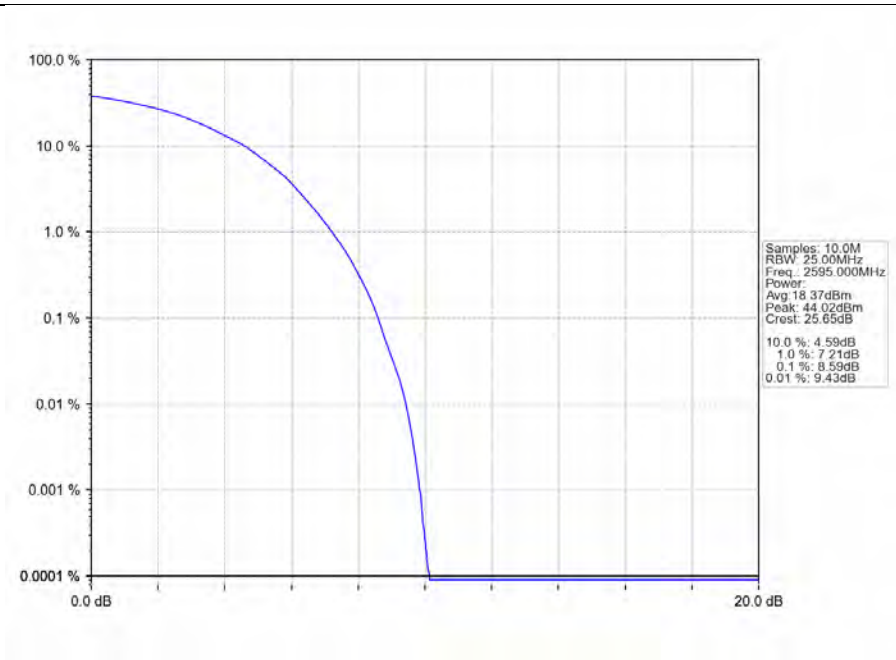

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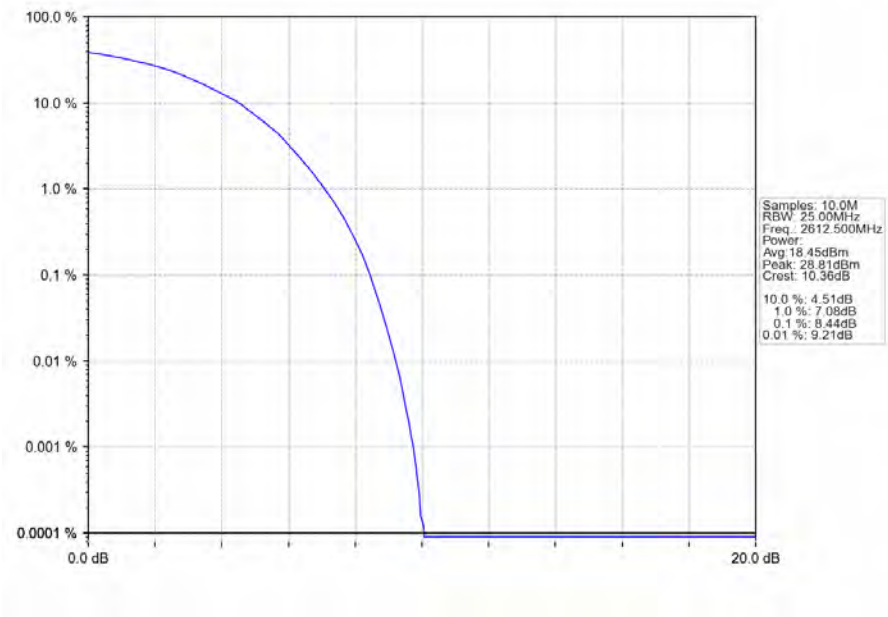

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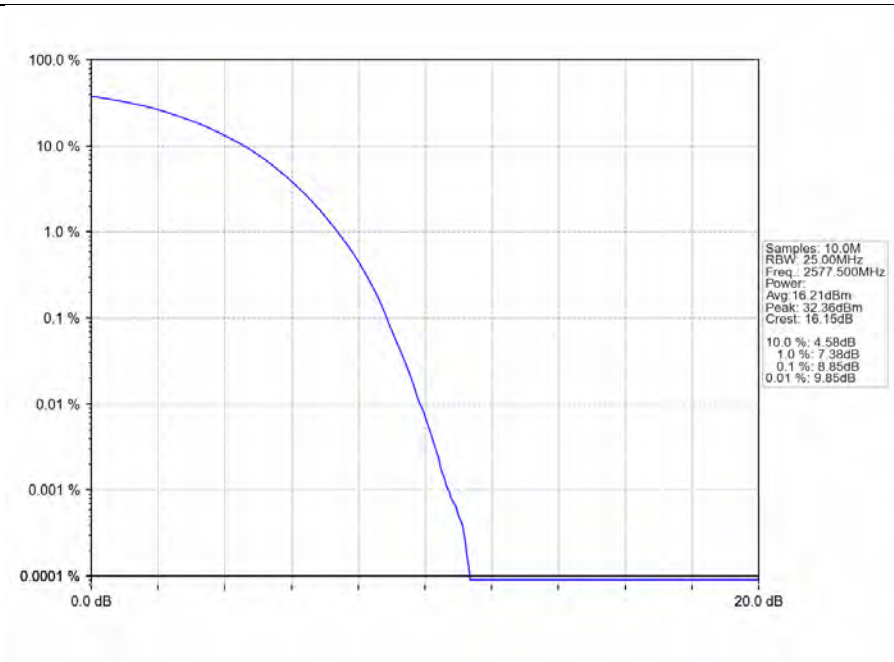

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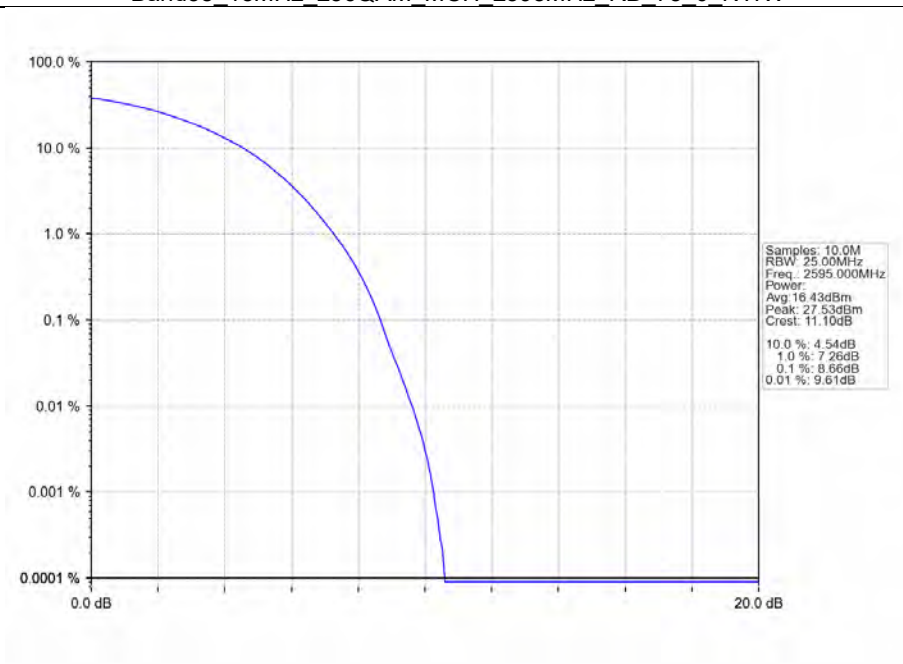

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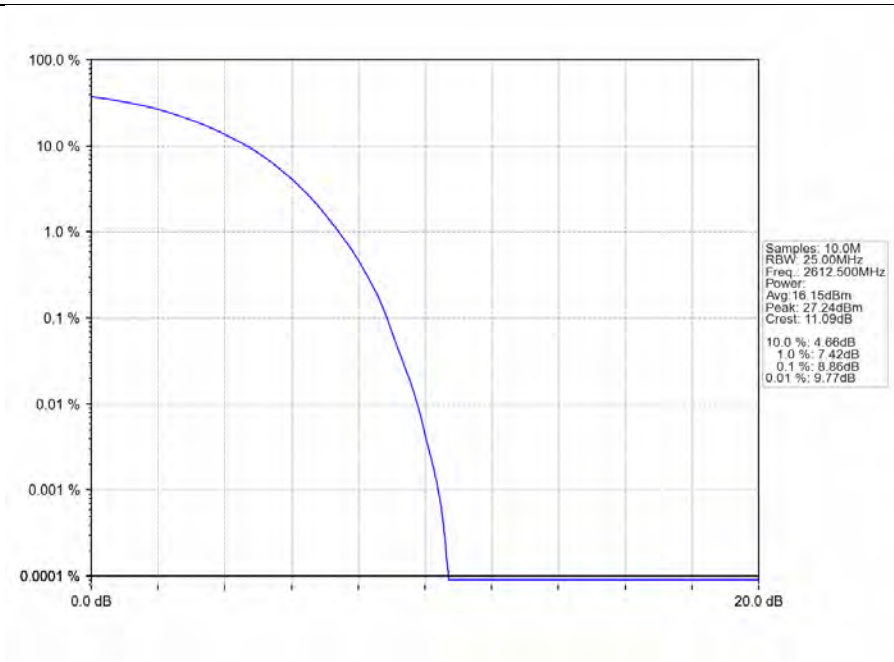

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4.4 B38_20MHz

4.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	8.81	<=13	Pass
	2595	100	0	8.60	<=13	Pass
	2610	100	0	8.55	<=13	Pass
16QAM	2580	100	0	8.65	<=13	Pass
	2595	100	0	8.56	<=13	Pass
	2610	100	0	8.71	<=13	Pass
64QAM	2580	100	0	8.47	<=13	Pass
	2595	100	0	8.62	<=13	Pass
	2610	100	0	8.55	<=13	Pass
256QAM	2580	100	0	8.87	<=13	Pass
	2595	100	0	8.44	<=13	Pass
	2610	100	0	8.46	<=13	Pass

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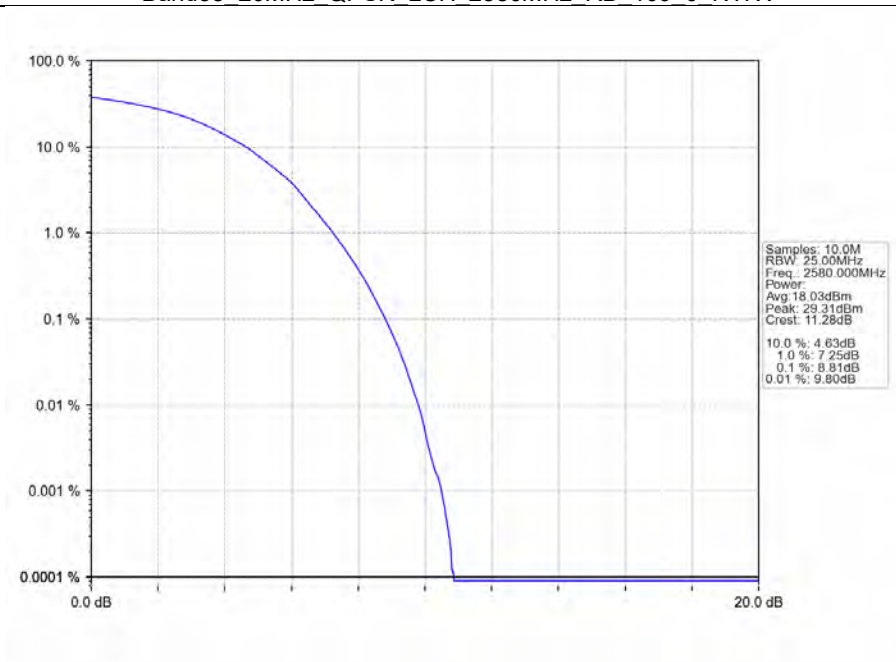
4.4.2 Test Graph

Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



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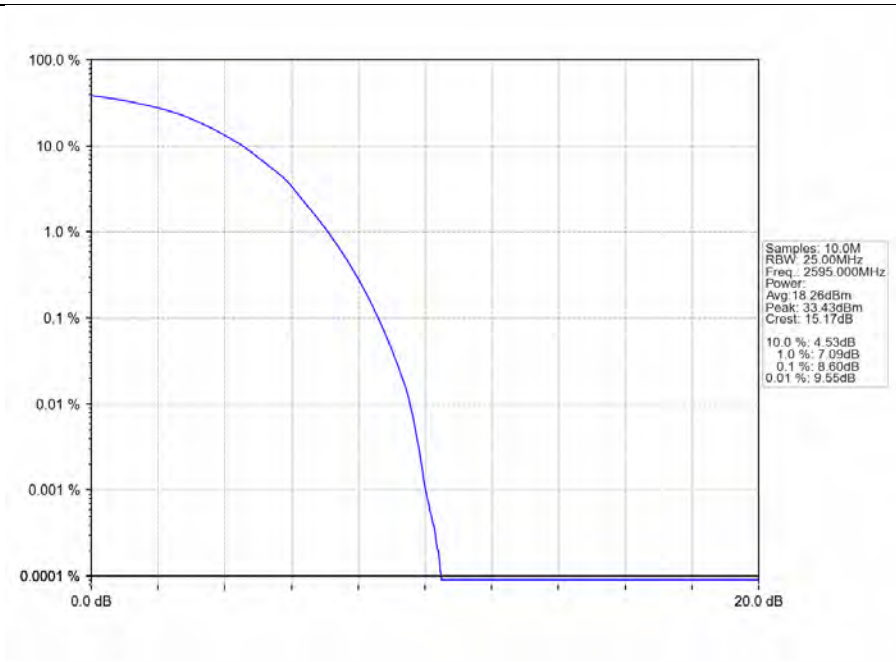

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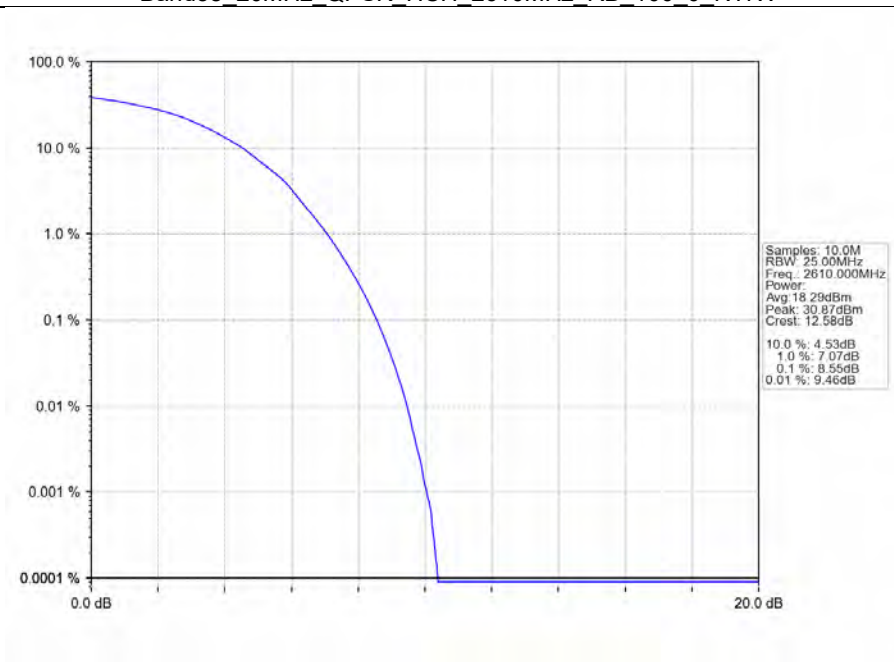
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV

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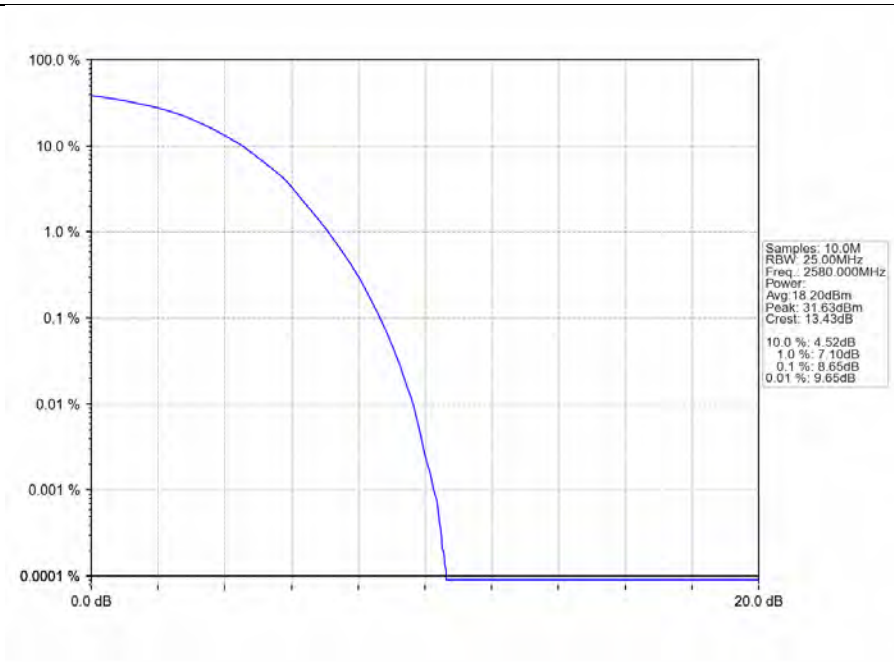

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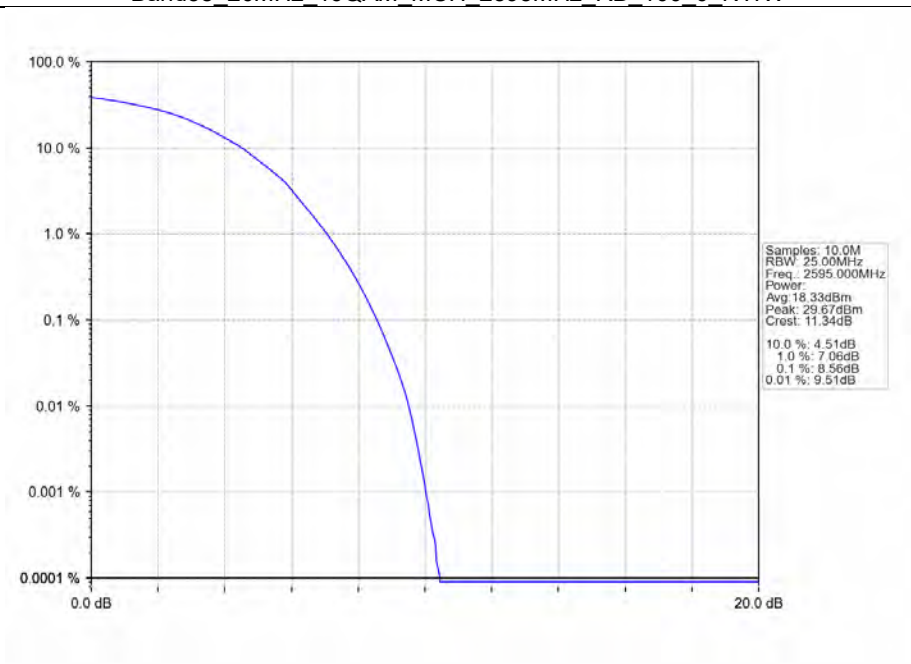
Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV

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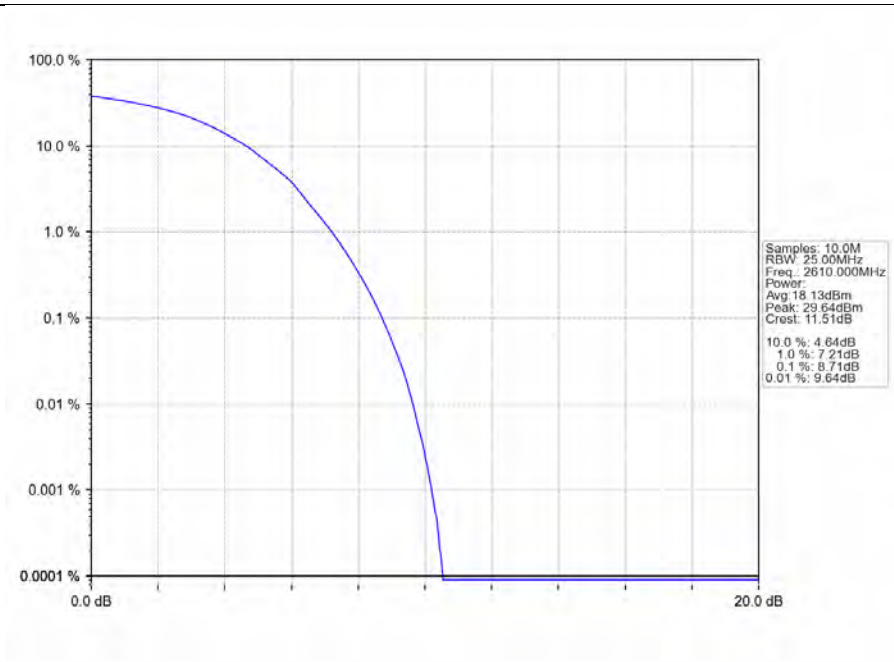

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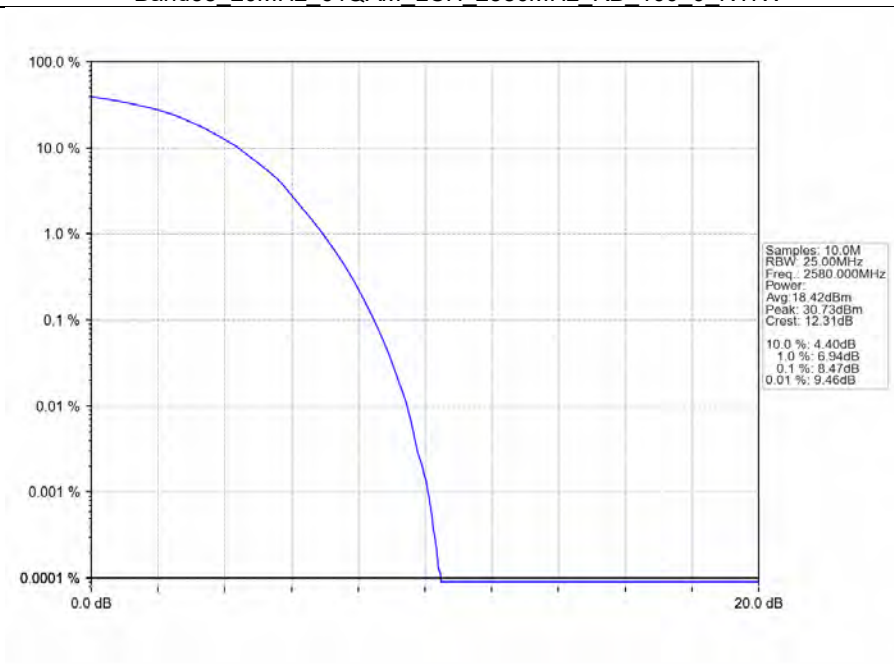
Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV

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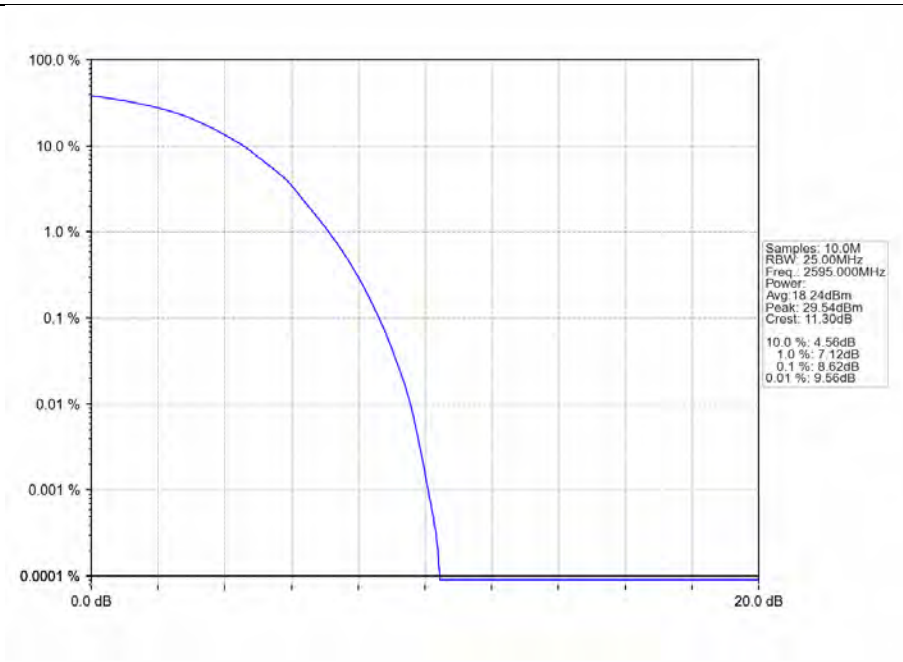

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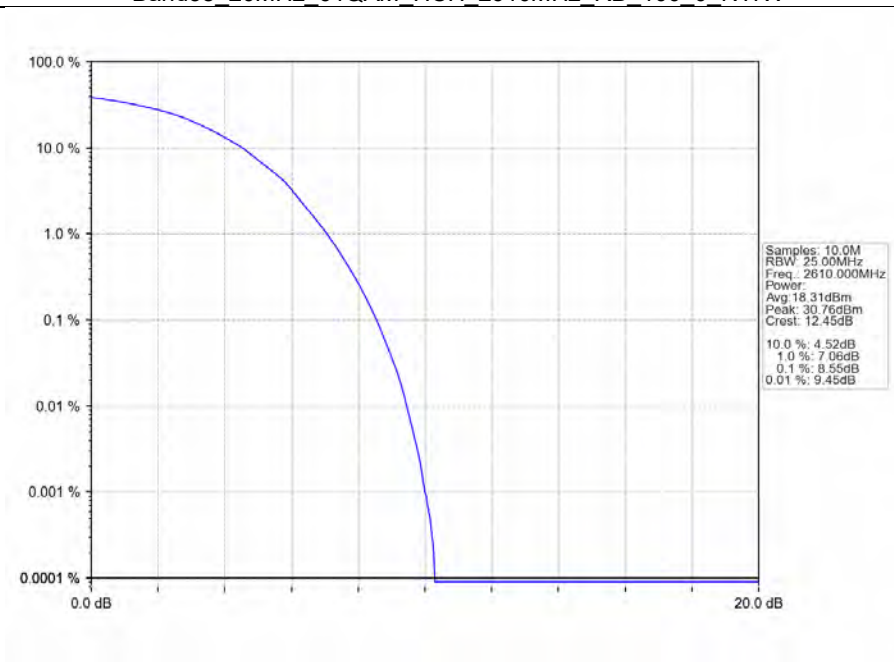

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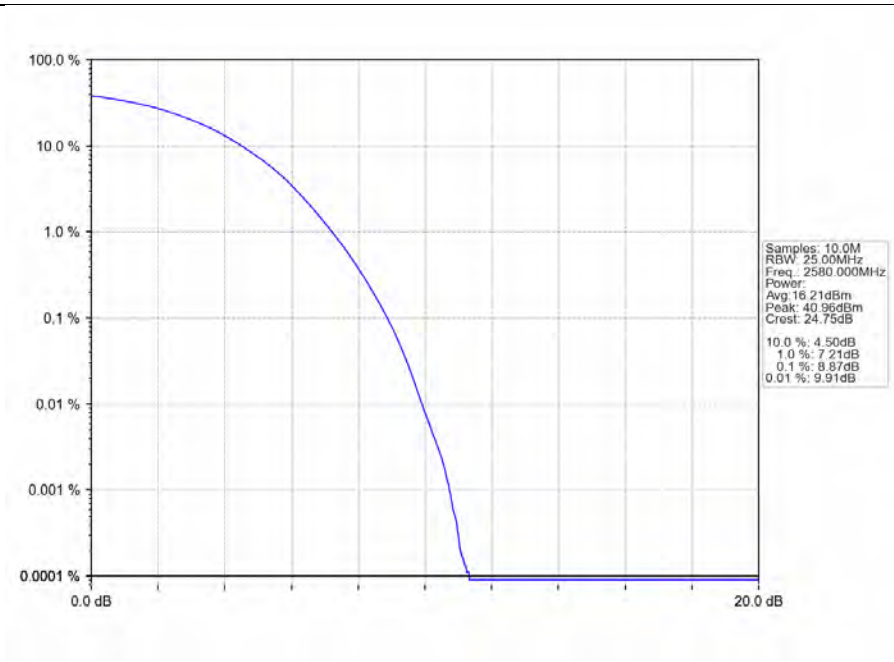

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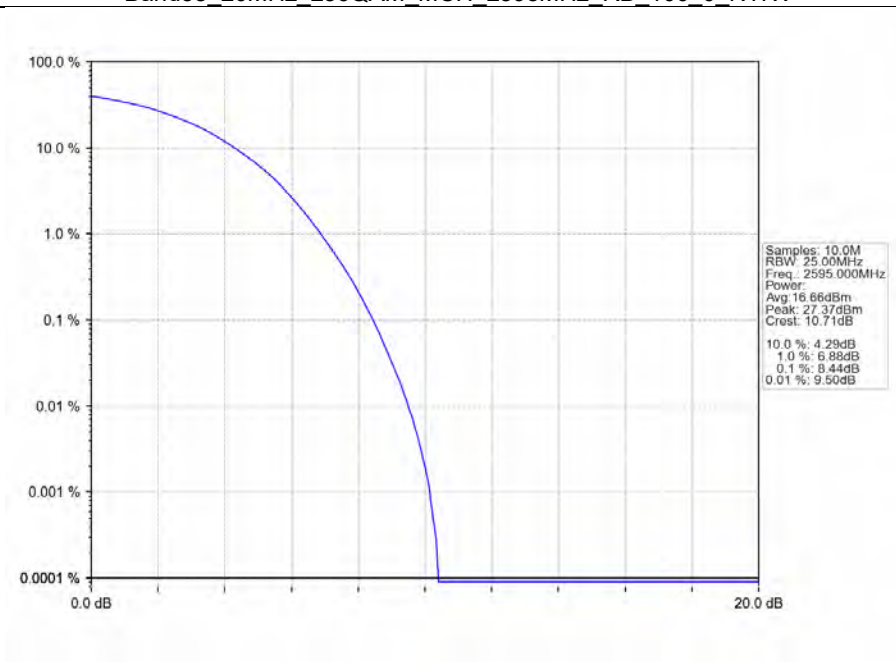

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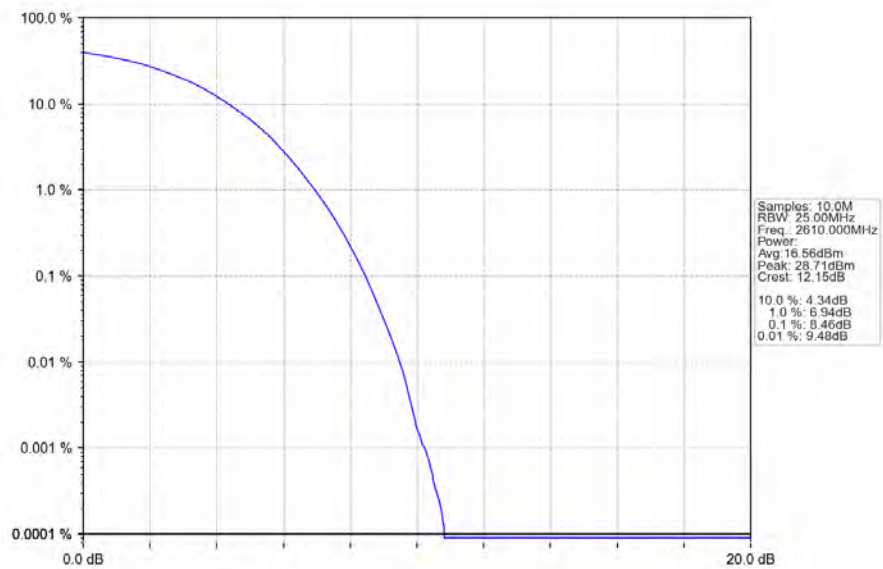

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5. Spurious Emission & Band Edges

5.1 B38_5MHz

5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
256QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

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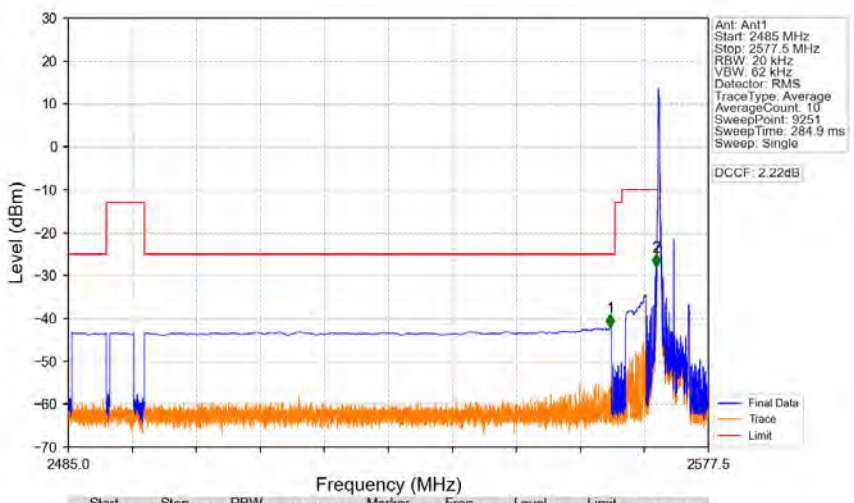
5.1.2 Test Graph

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.340	-42.04	-25	Pass
2569	2570	0.02	/	2	2569.950	-27.95	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV

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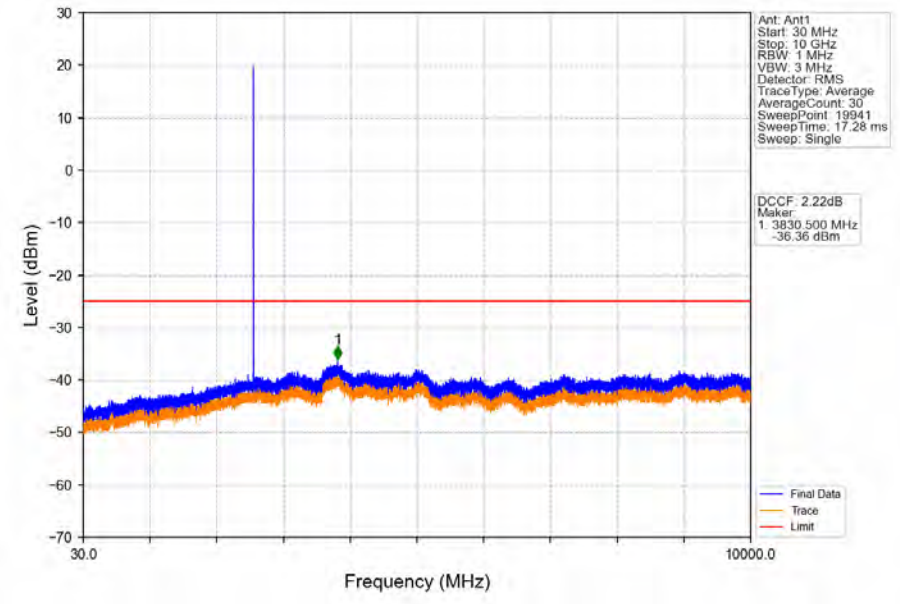

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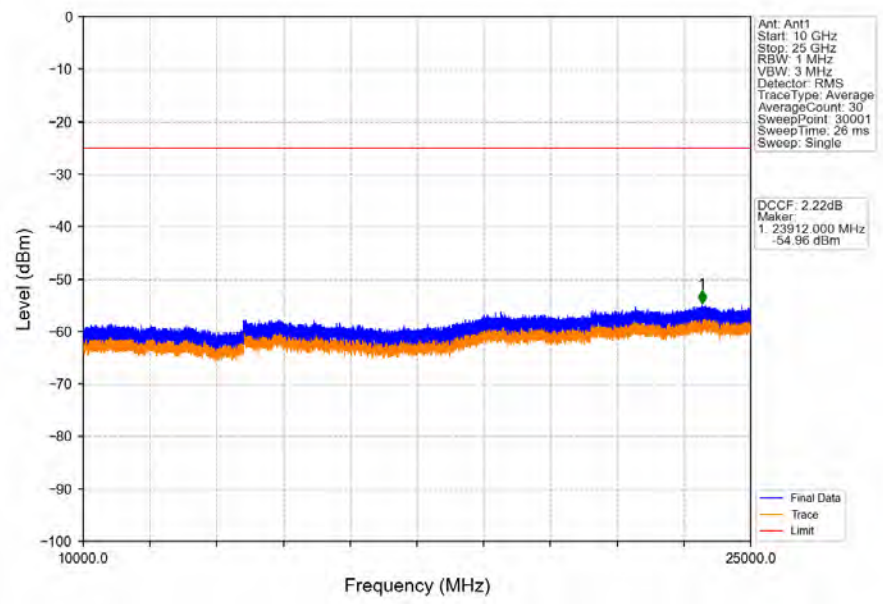

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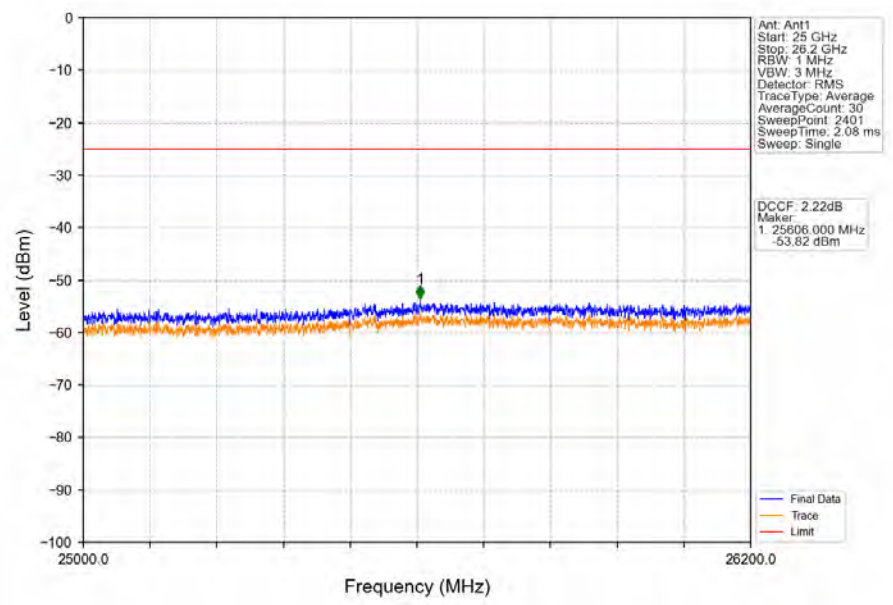

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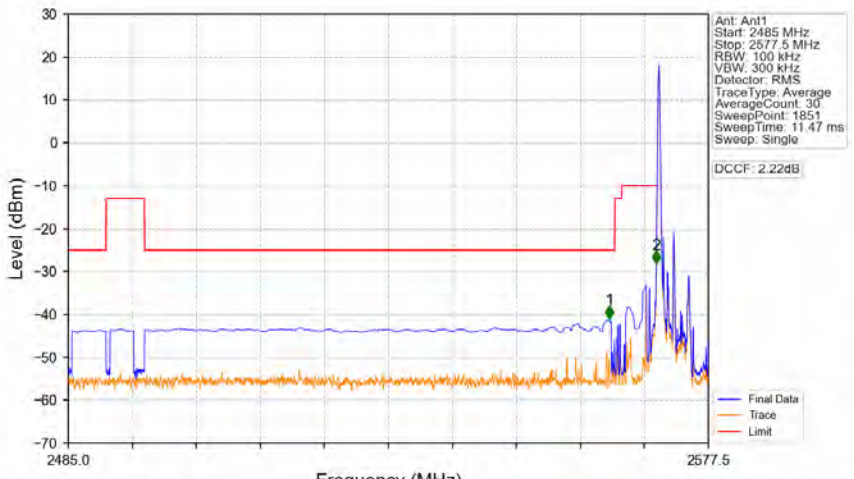

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.200	-40.99	-25	Pass
2569	2570	0.1	/	2	2570.000	-28.17	-10	Pass
2570	2577.5	0.1	/	/	/	/	/	/

Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV

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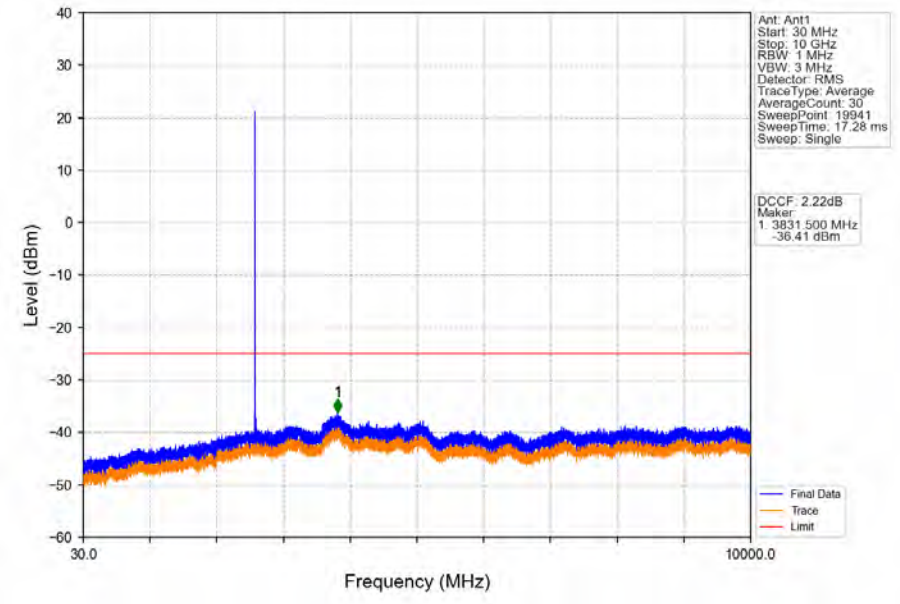

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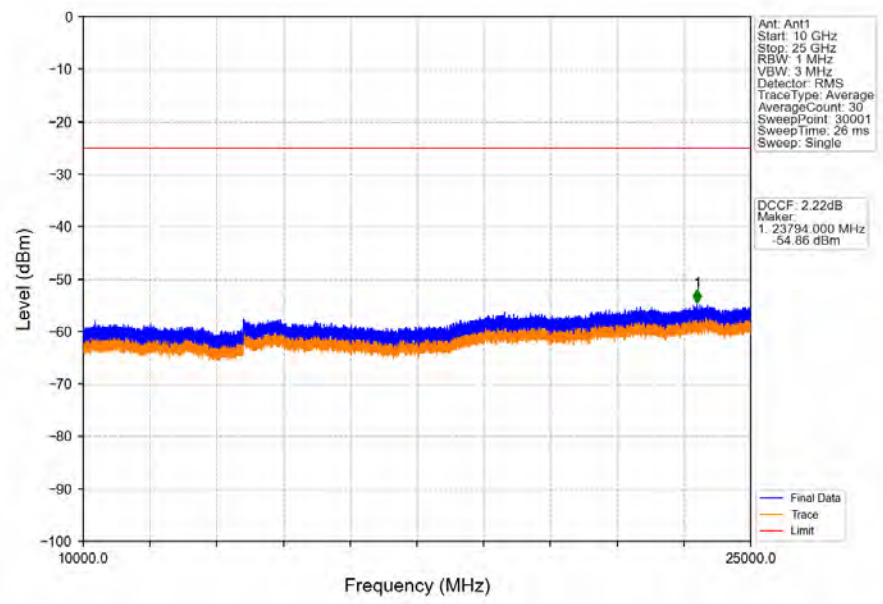

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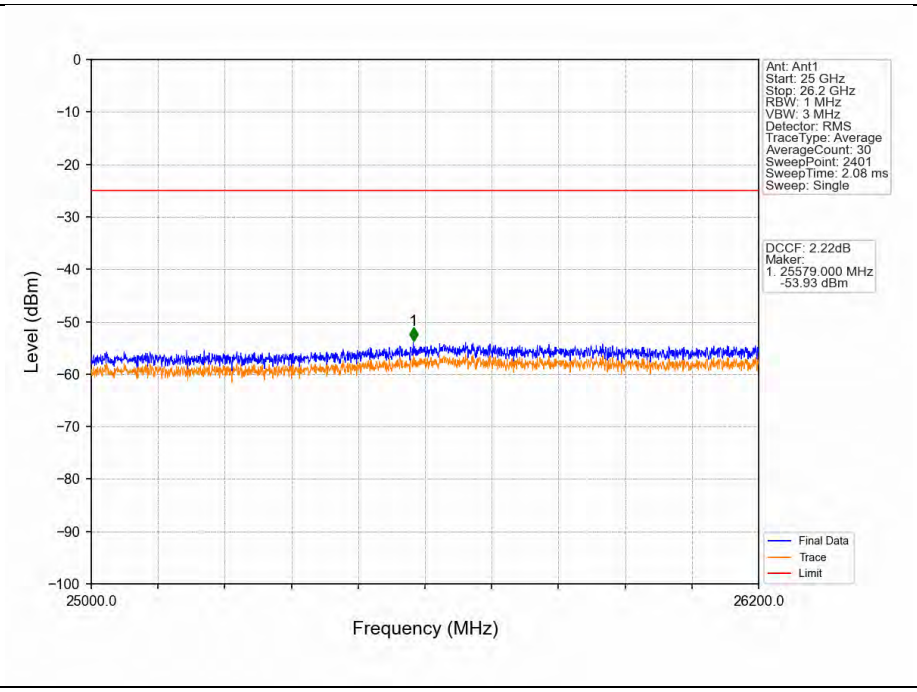

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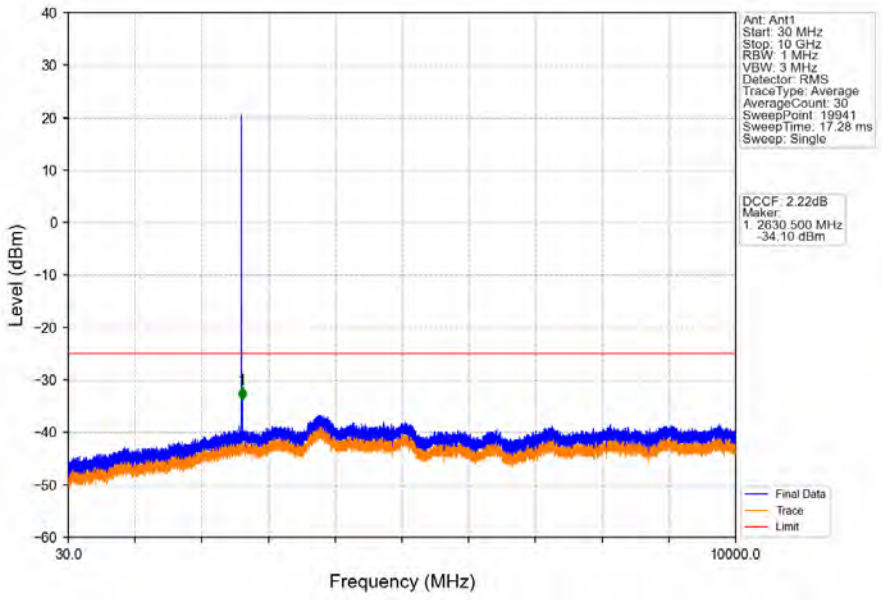

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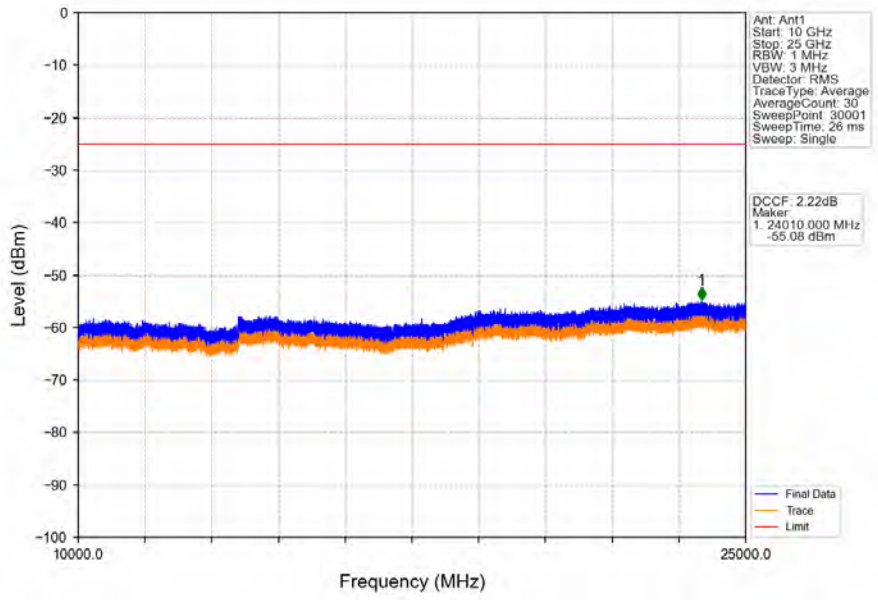

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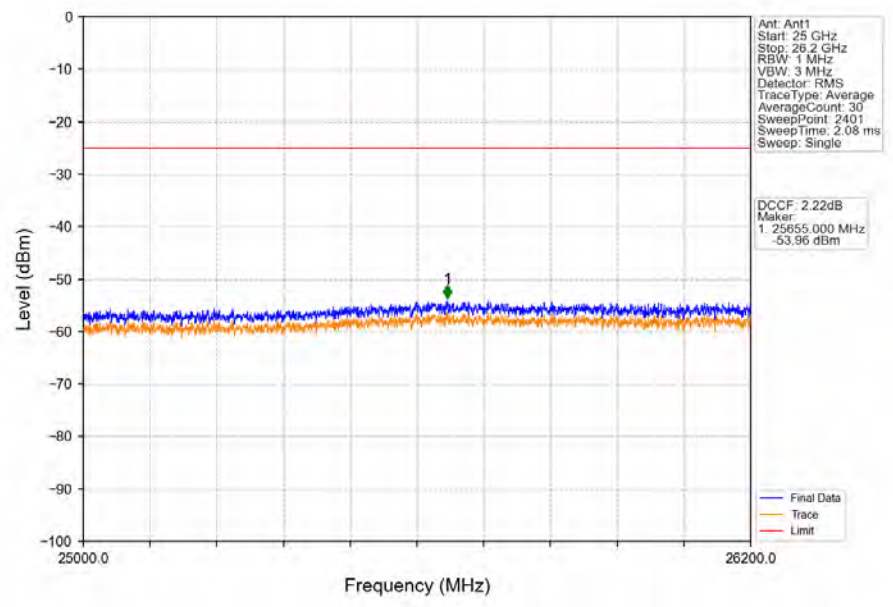

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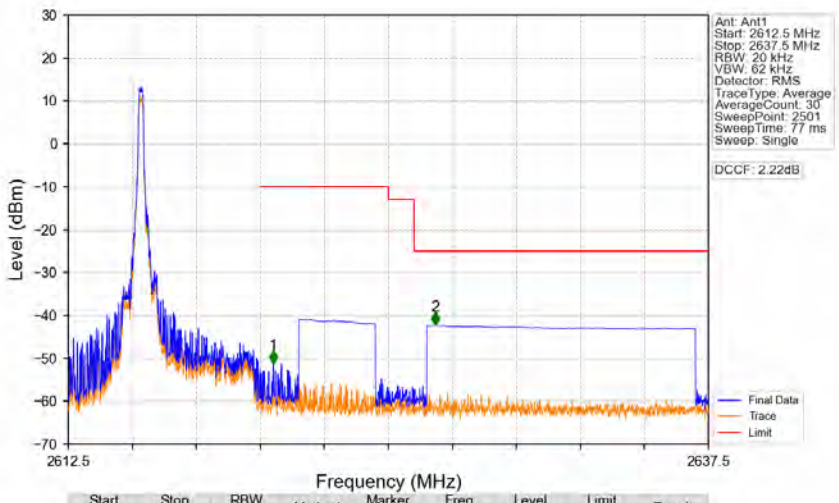

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.510	-51.31	-10	Pass
2621	2637.5	1	CHP	2	2626.830	-42.31	-25	Pass

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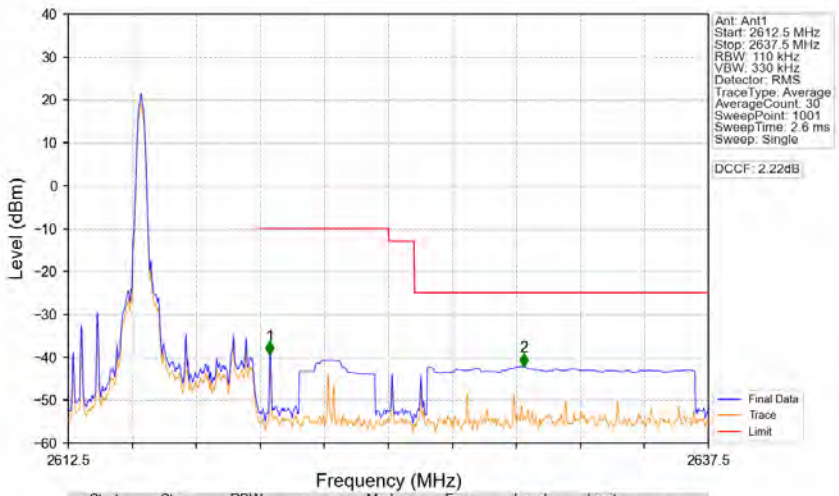

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	/	/	/	/	/
2620	2621	0.11	/	1	2620.375	-39.40	-10	Pass
2621	2637.5	1	CHP	2	2630.300	-42.12	-25	Pass

Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV

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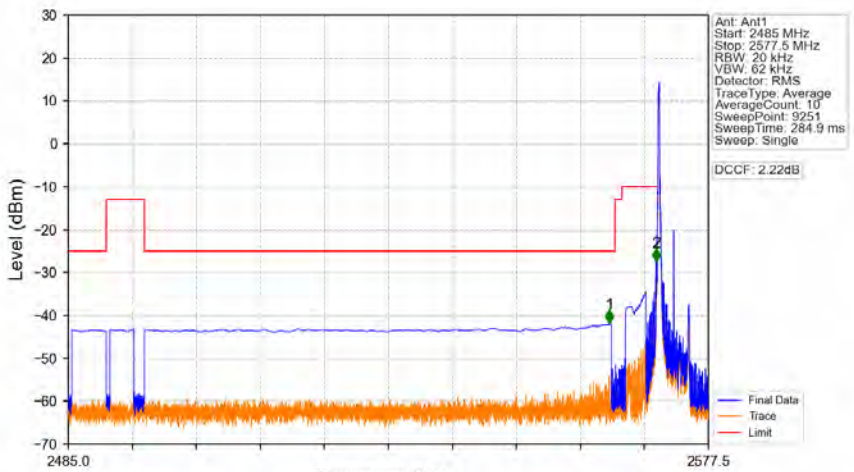

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.210	-41.85	-25	Pass
2569	2570	0.02	/	2	2569.940	-27.49	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/

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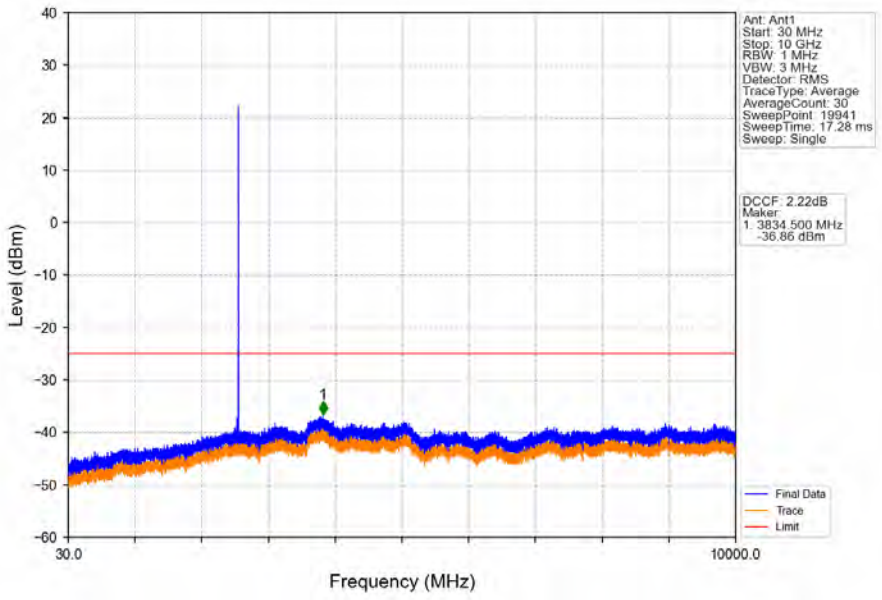
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



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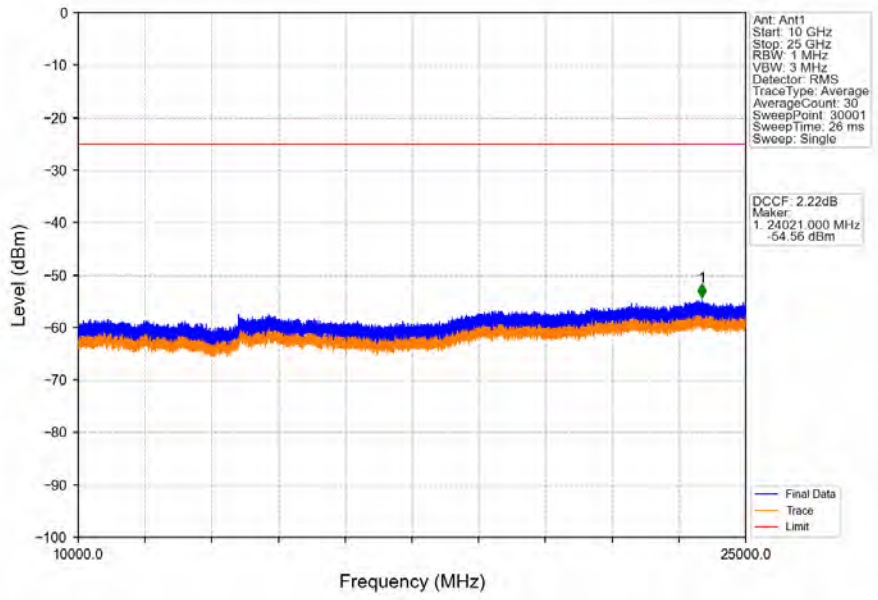

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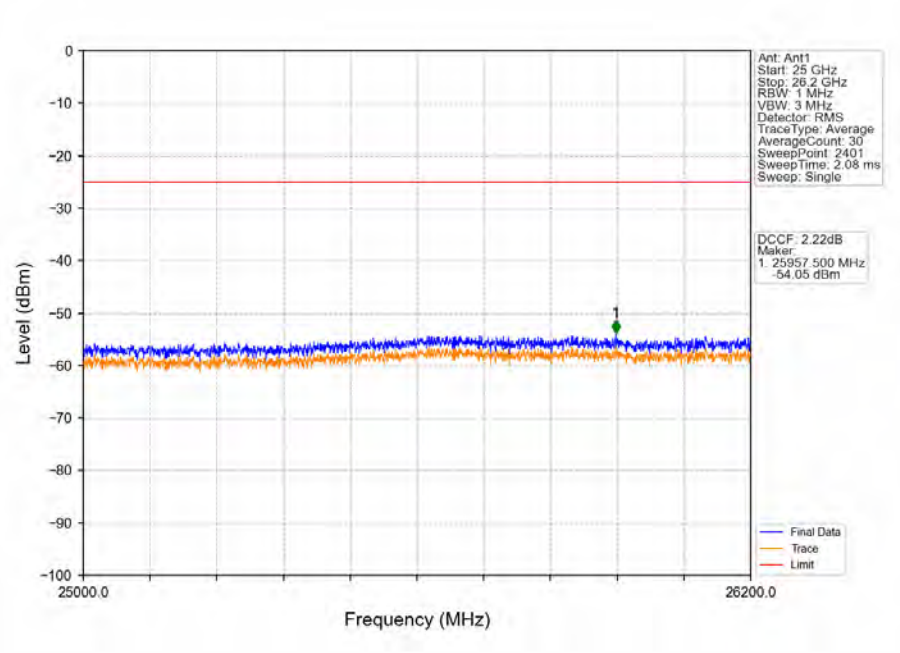

Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV

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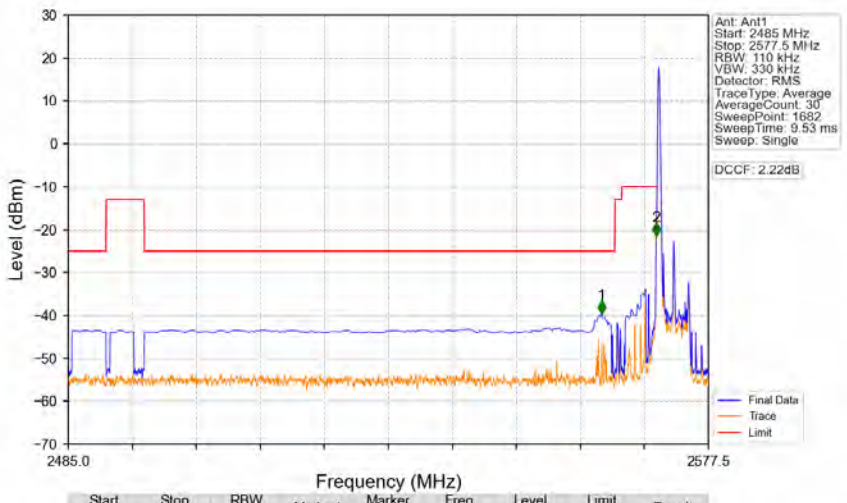

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2562.037	-39.65	-25	Pass
2569	2570	0.11	/	2	2569.961	-21.46	-10	Pass
2570	2577.5	0.11	/	/	/	/	/	/

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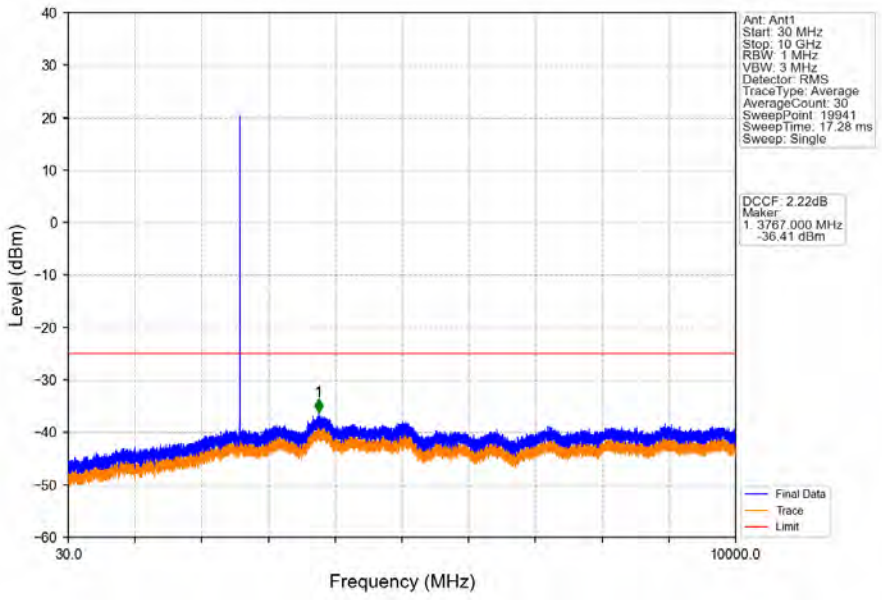

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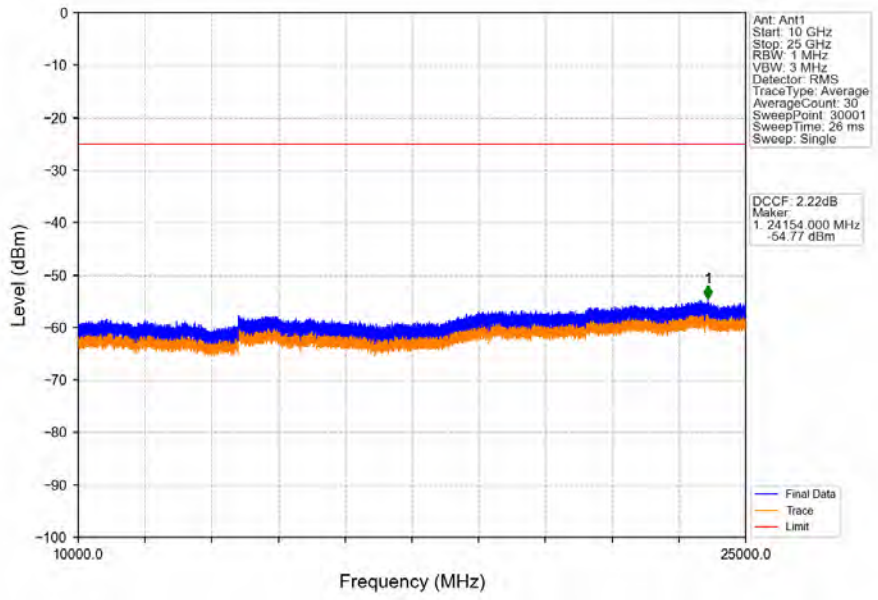

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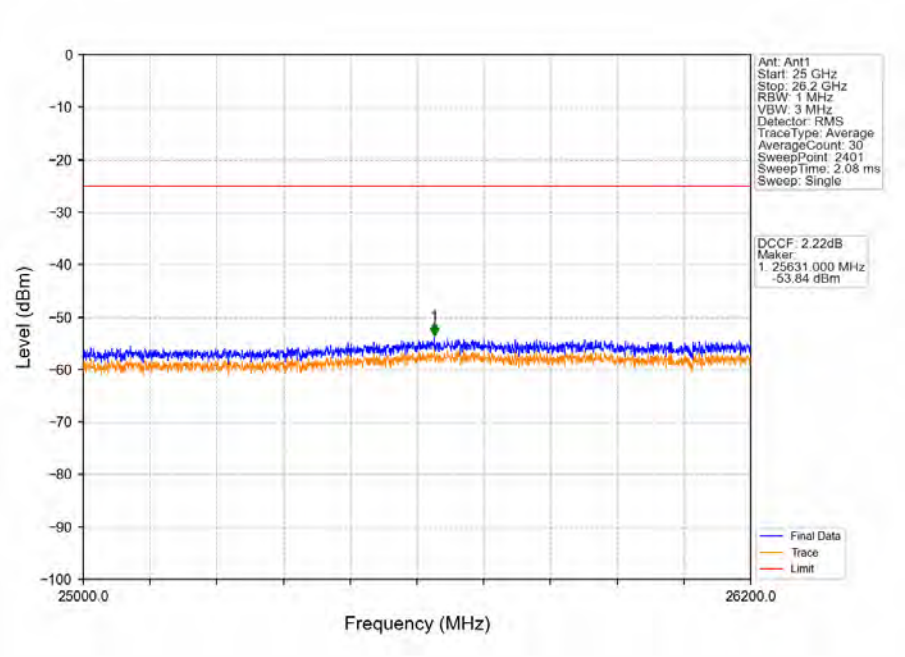

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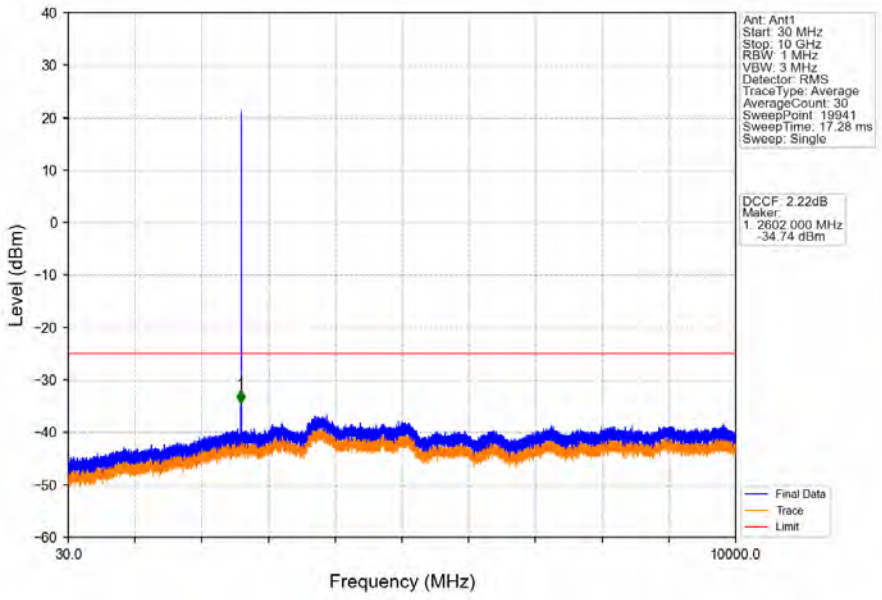

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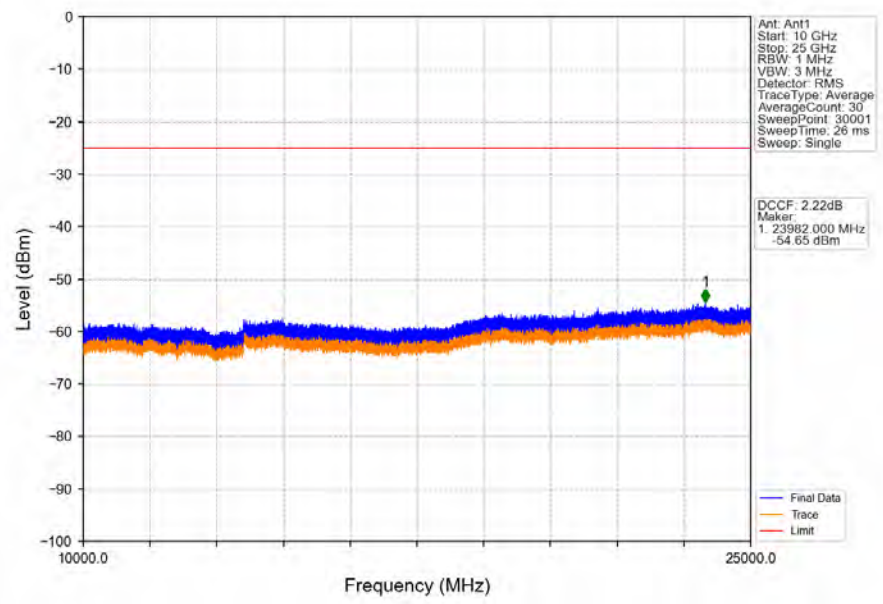

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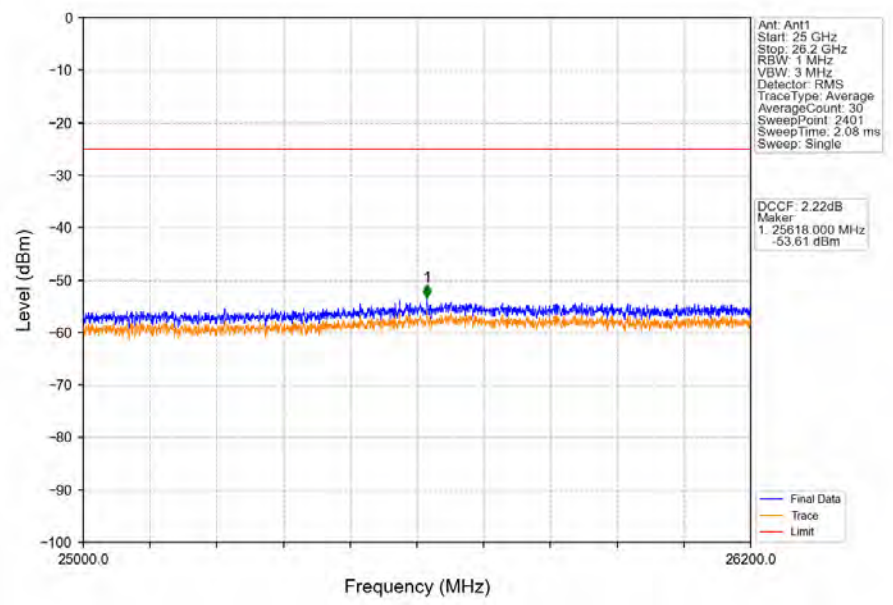

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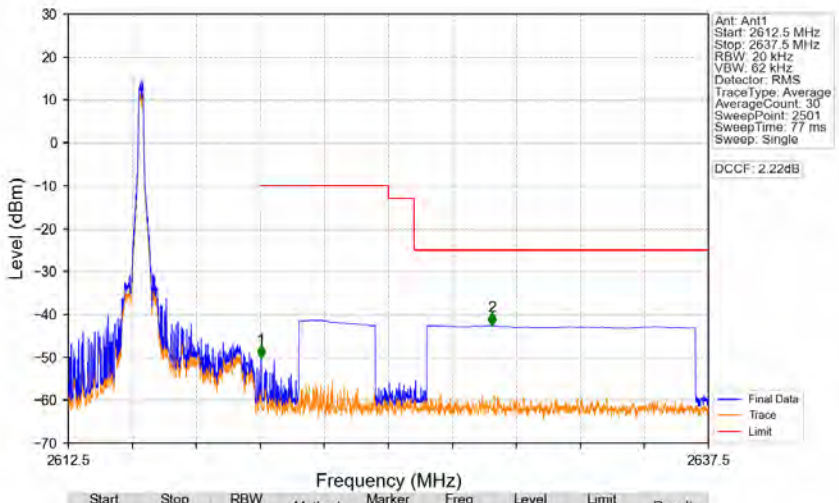

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.030	-50.30	-10	Pass
2621	2637.5	1	CHP	2	2629.040	-42.64	-25	Pass

Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	/	/	/	/	/
2620	2621	0.11	/	1	2620.725	-41.16	-10	Pass
2621	2637.5	1	CHP	2	2630.925	-42.37	-25	Pass

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