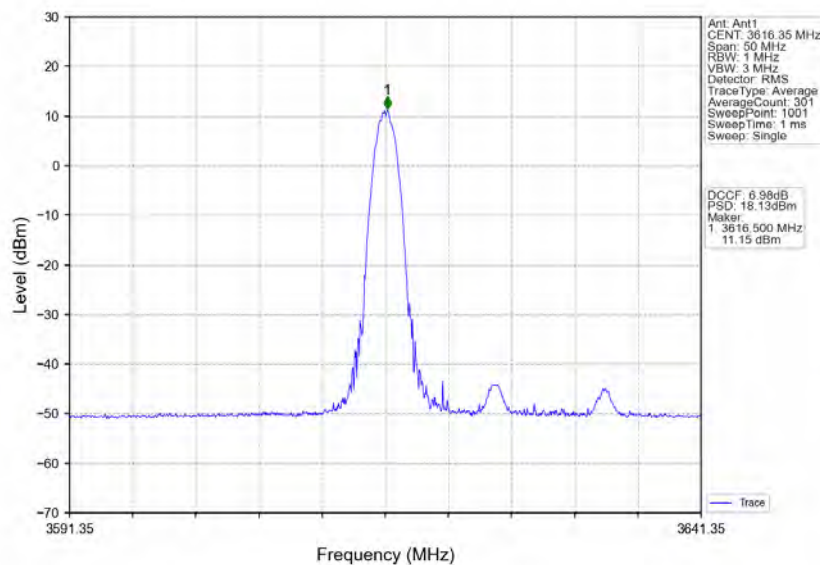
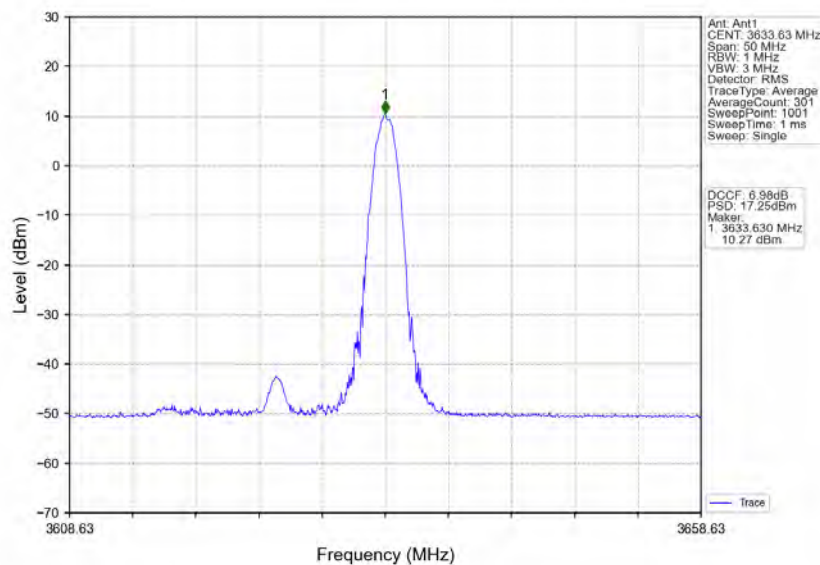


n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_16_QAM_3624.99MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_16_QAM_3624.99MHz_Inner_1RB_Right



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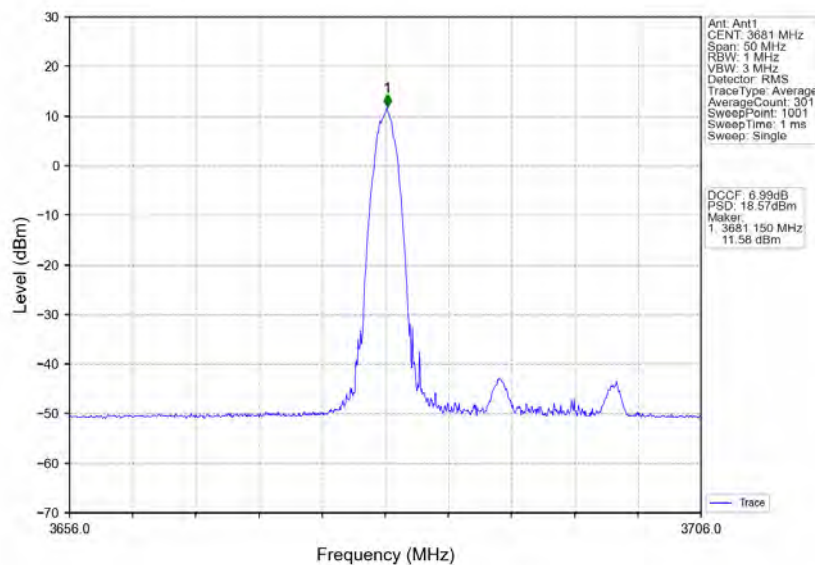
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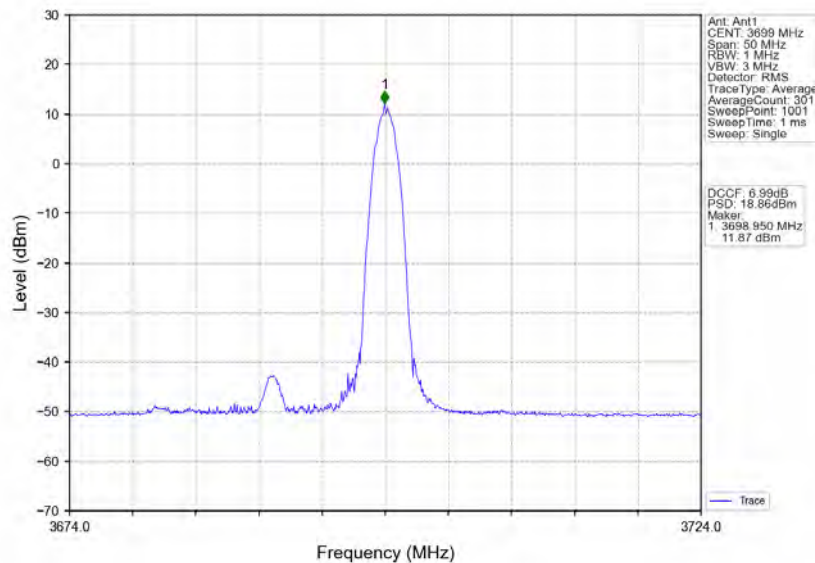
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_16_QAM_3690MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_16_QAM_3690MHz_Edge_1RB_Right



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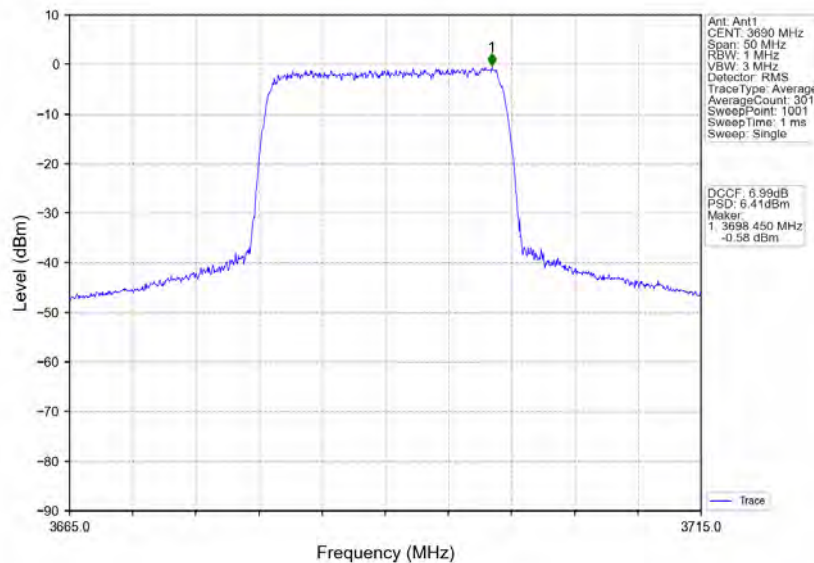
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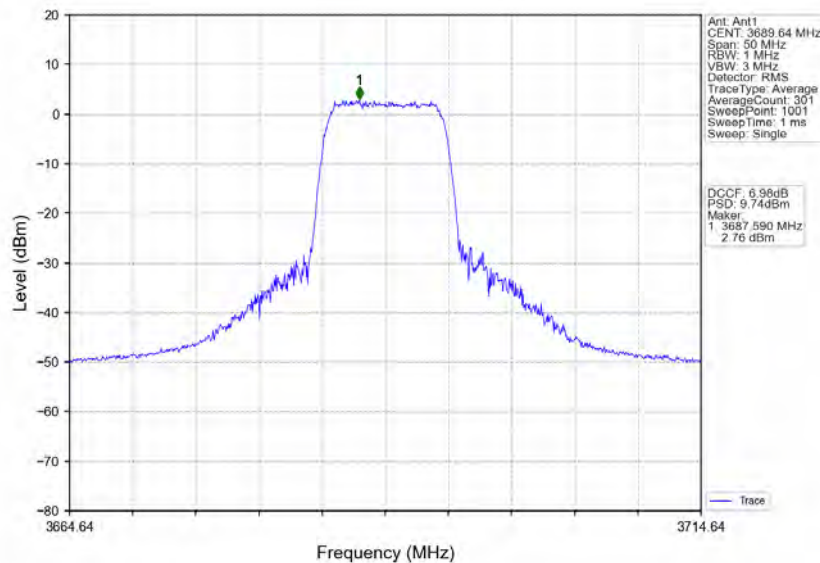
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_16_QAM_3690MHz_Outer_Full



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_16_QAM_3690MHz_Inner_Full



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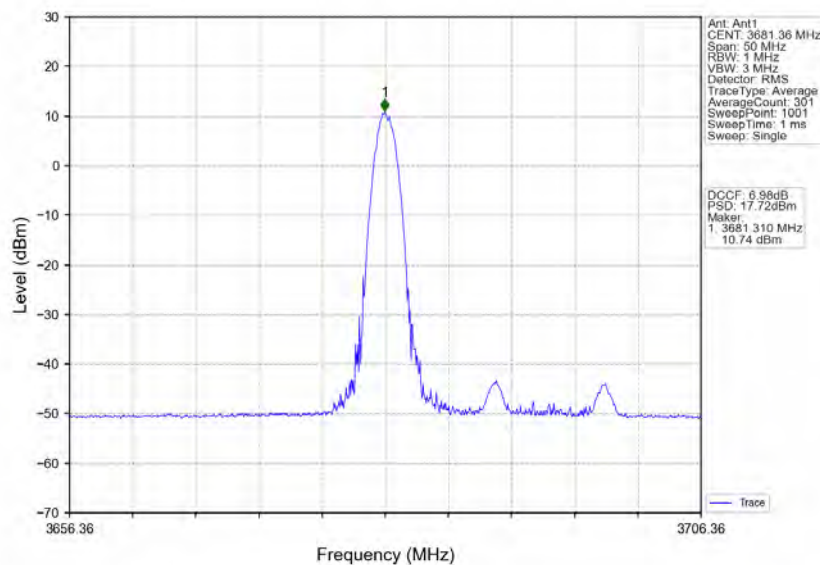
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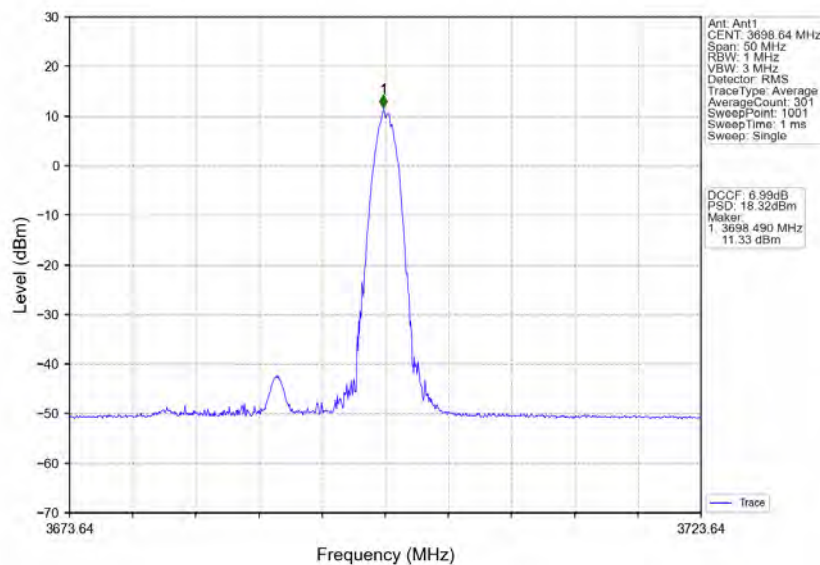
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_16_QAM_3690MHz_Inner_1RB_Left



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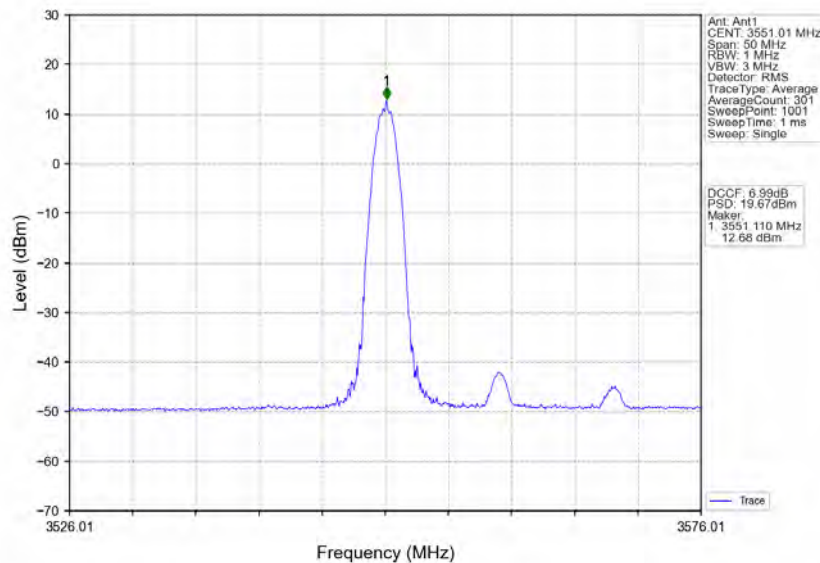
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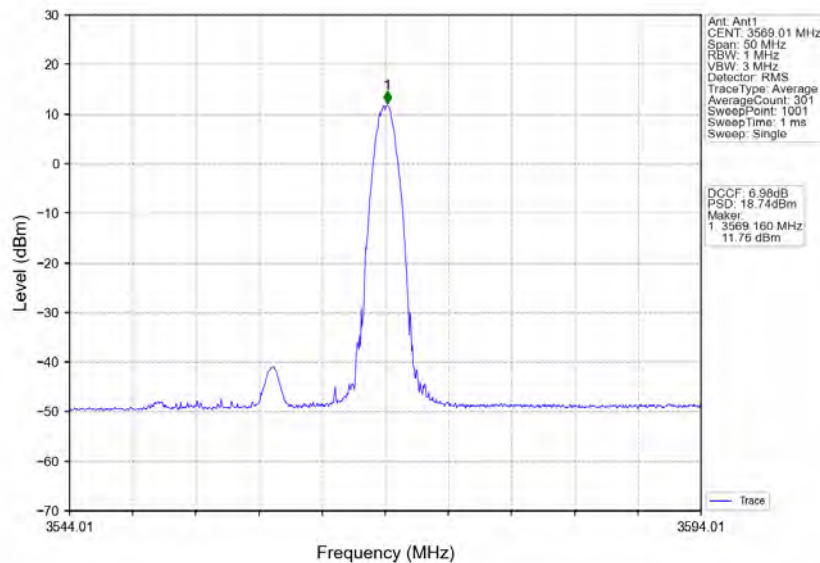
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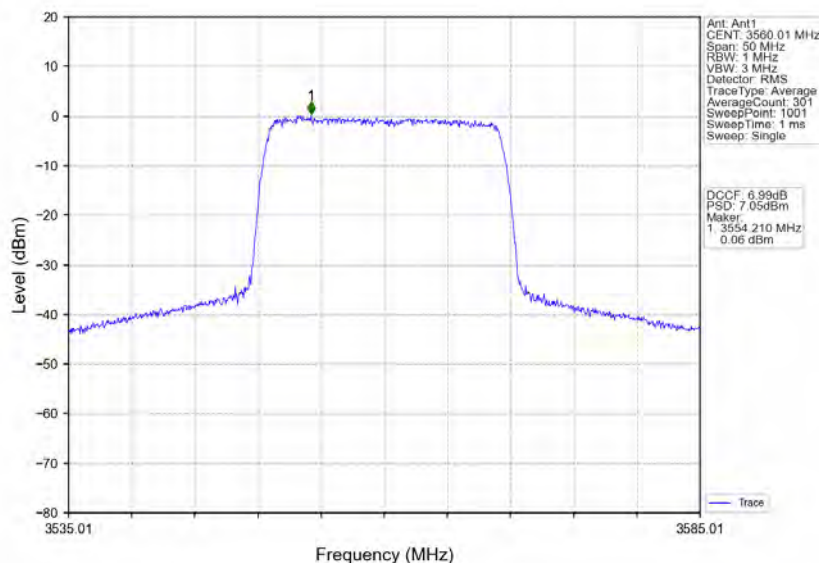
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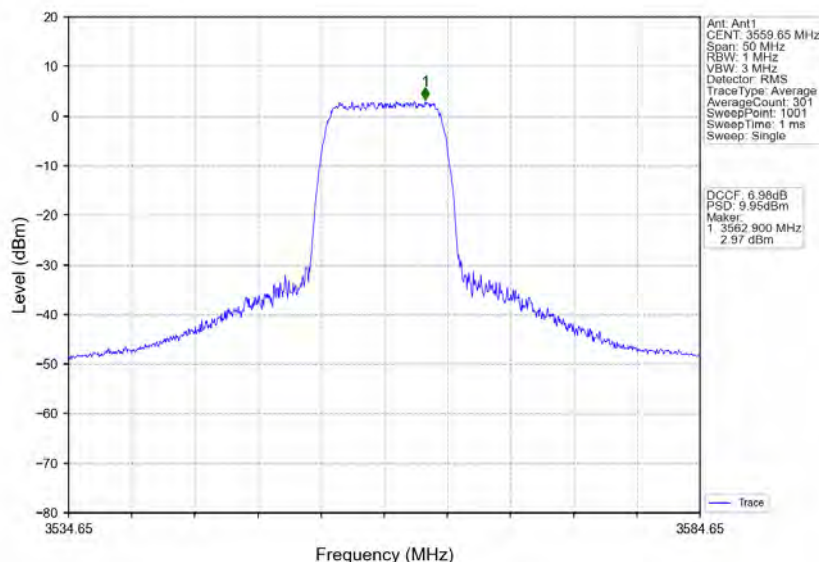
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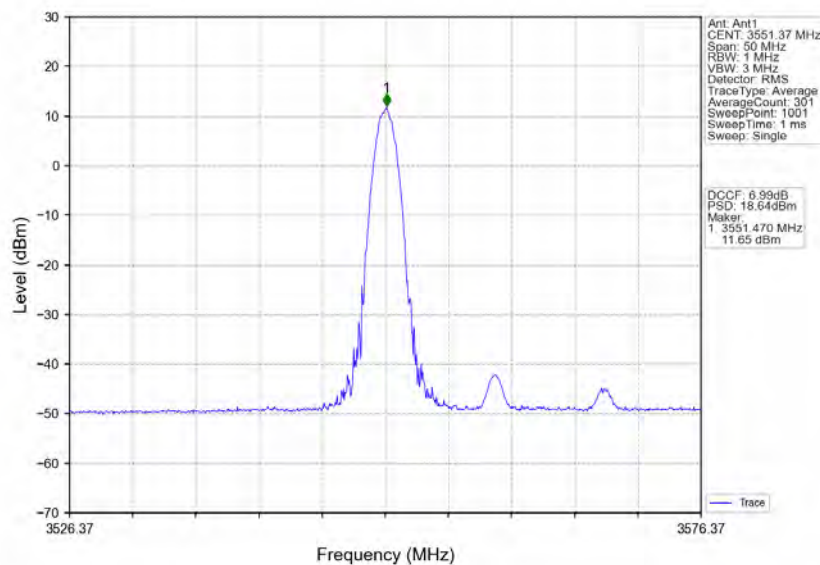
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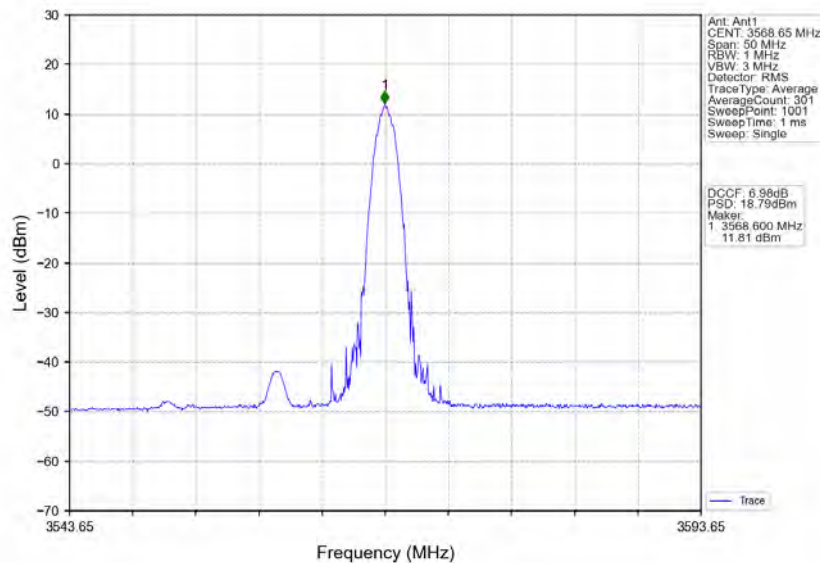
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Inner_1RB_Left



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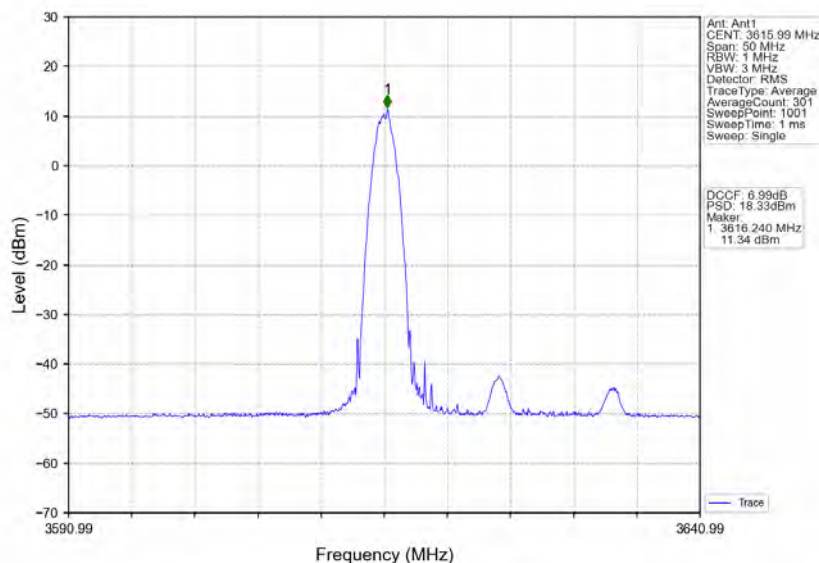
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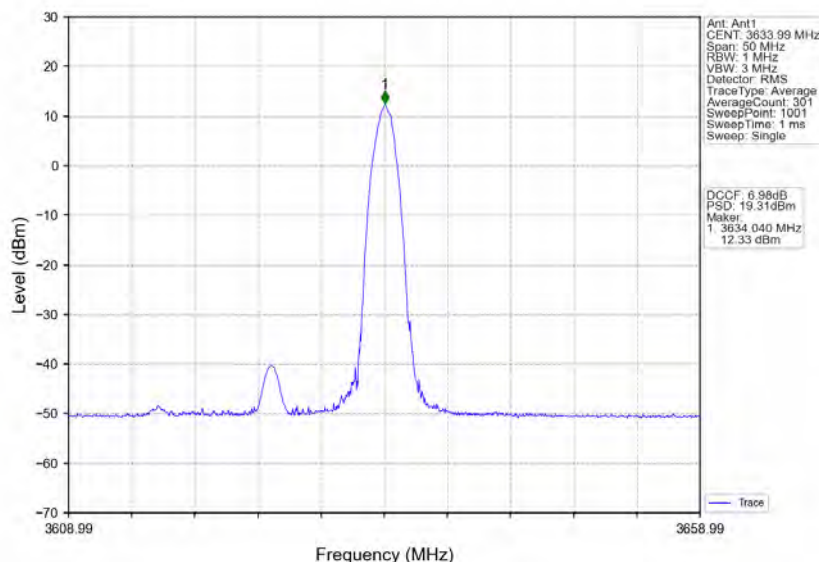
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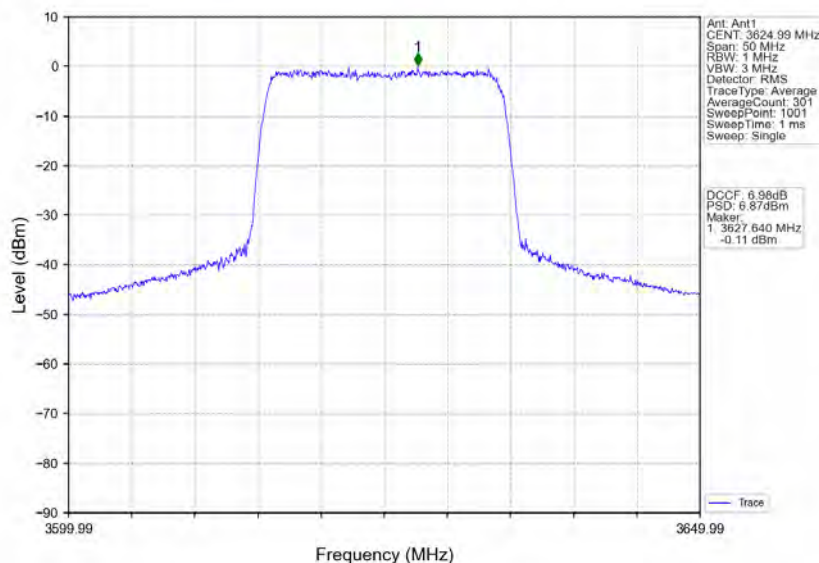
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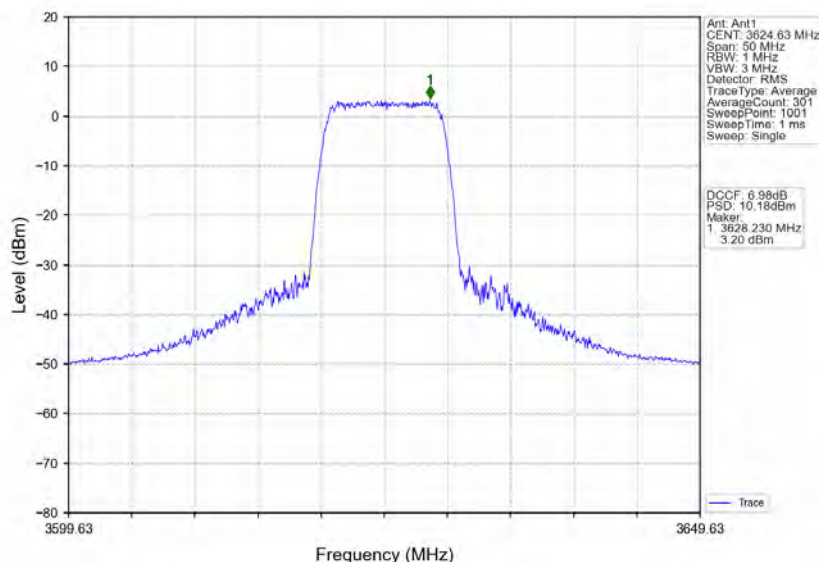
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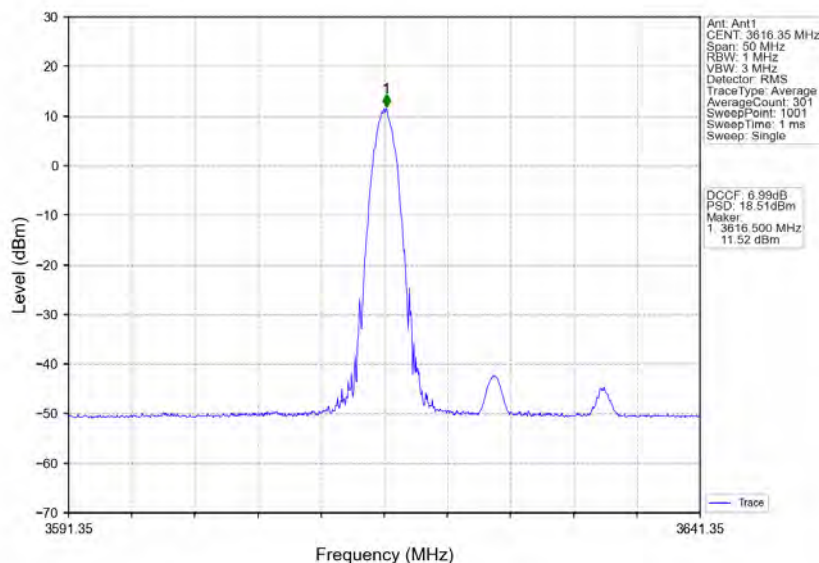
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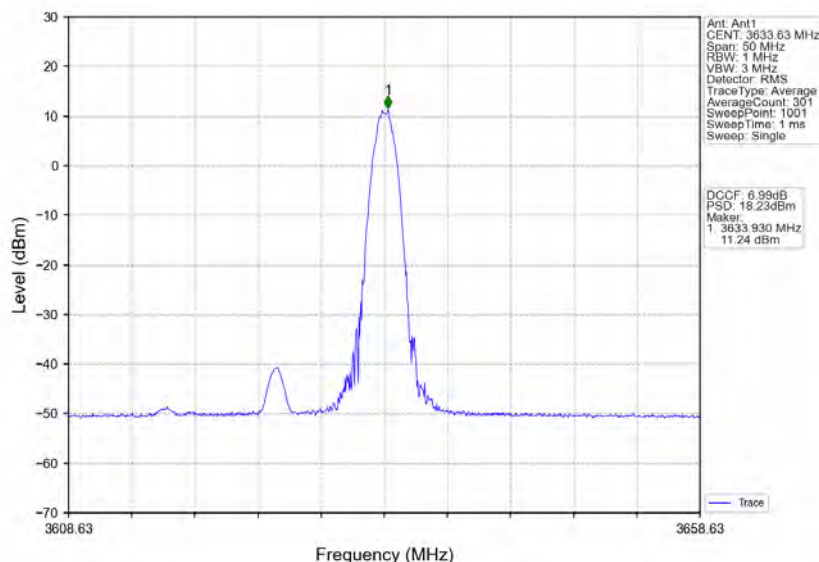
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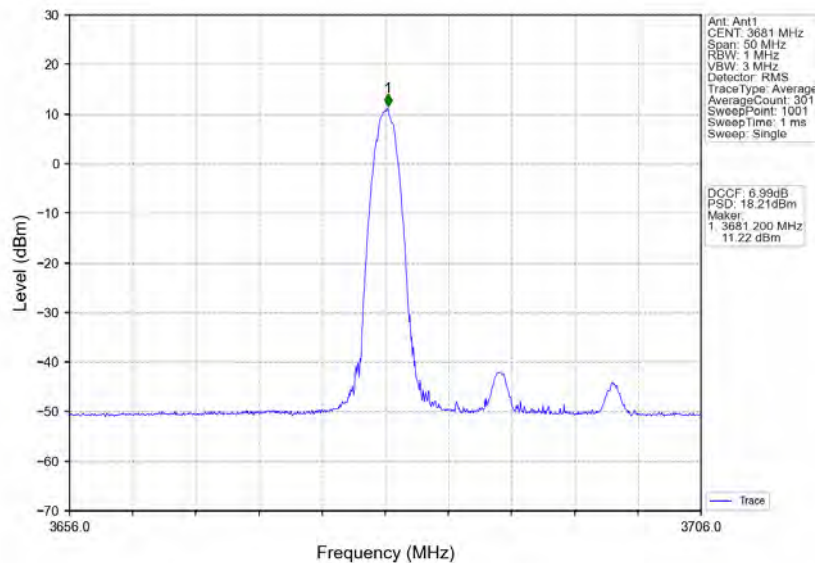
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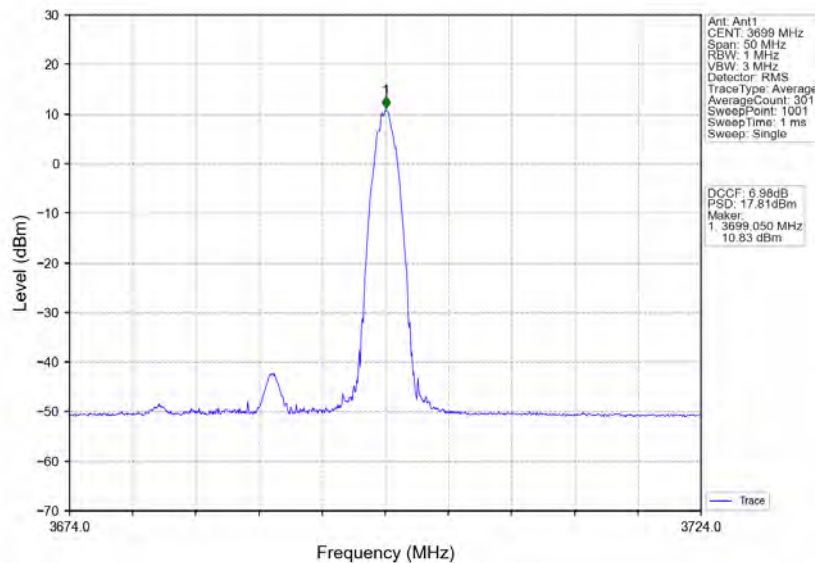
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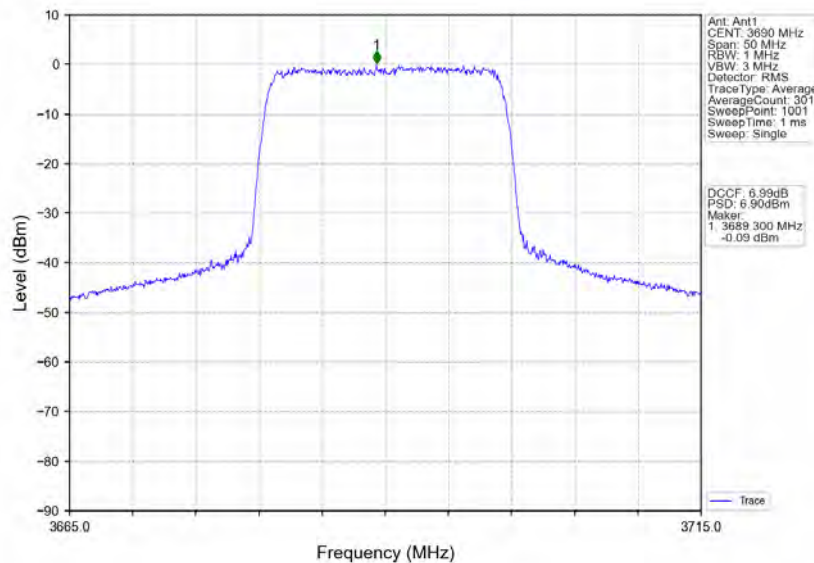
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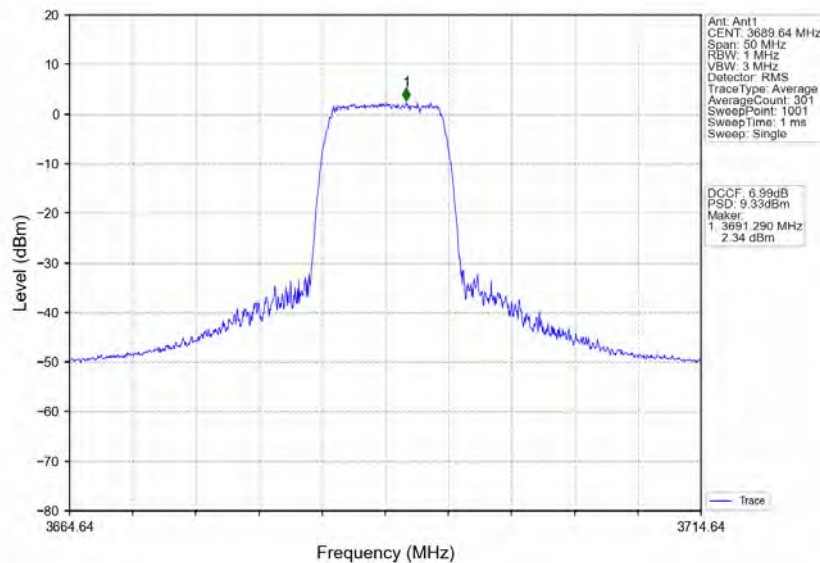
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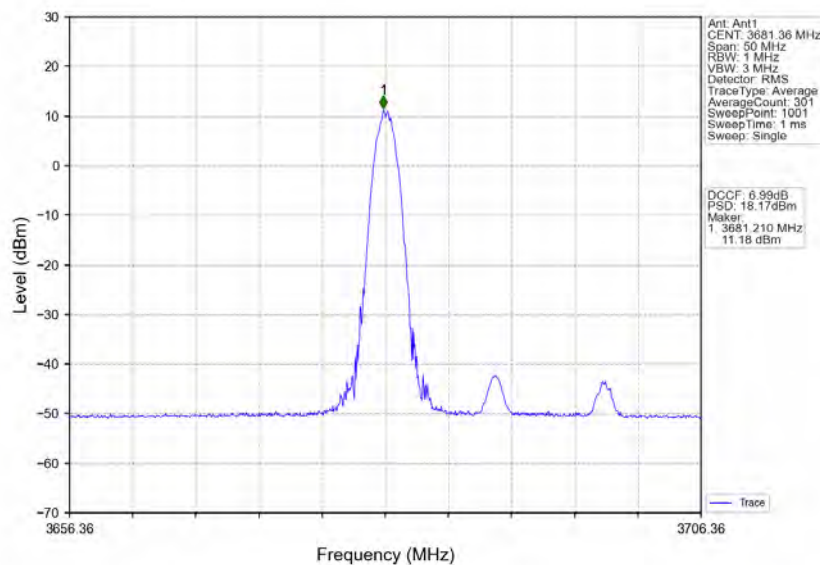
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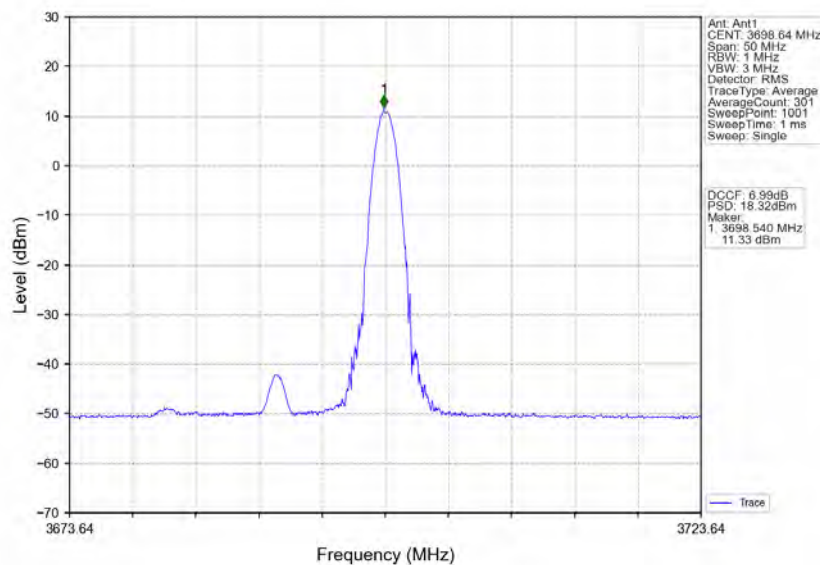
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3690MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3690MHz_Inner_1RB_Right



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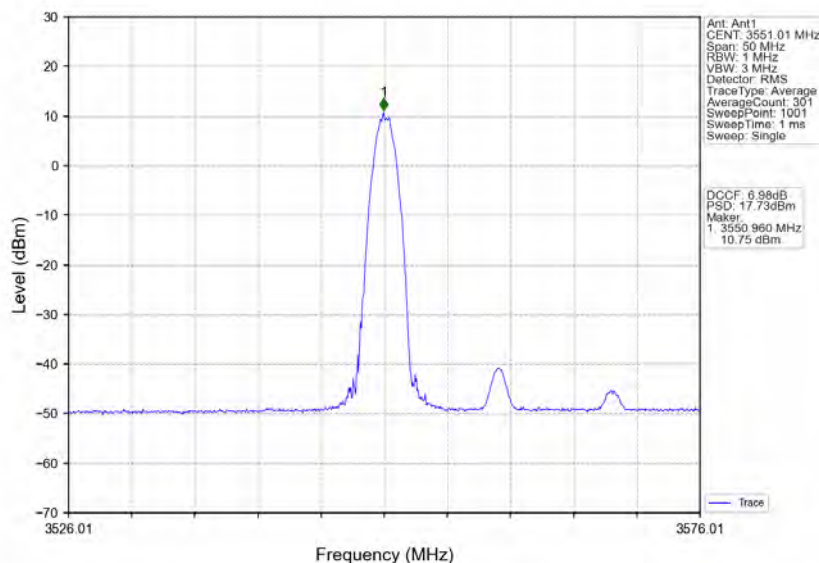
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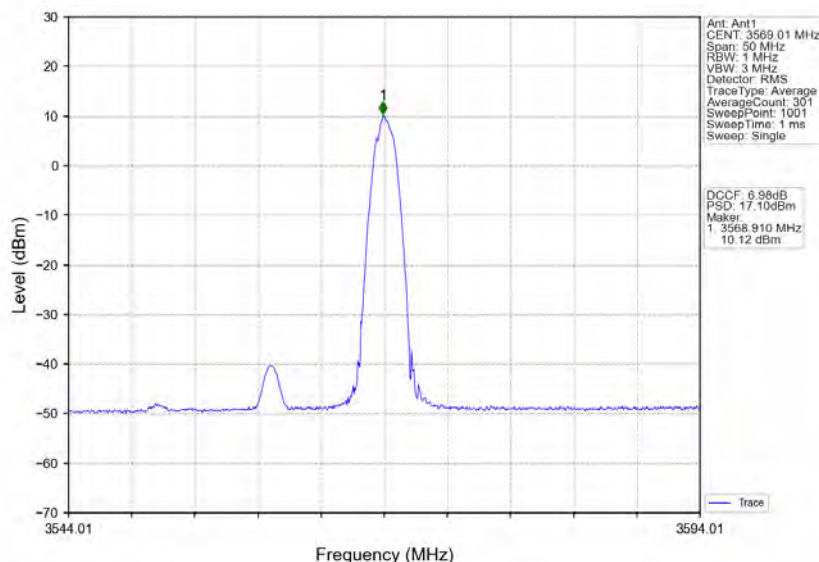
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3560.01MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3560.01MHz_Edge_1RB_Right



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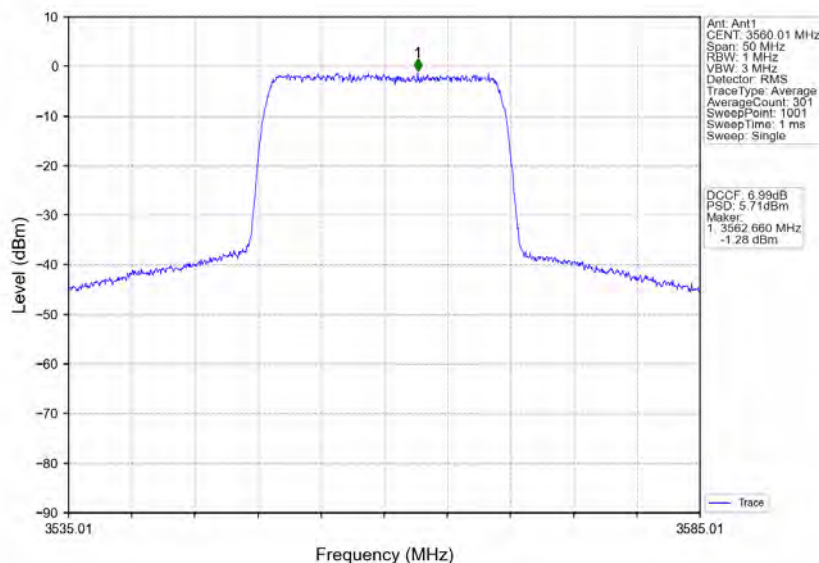
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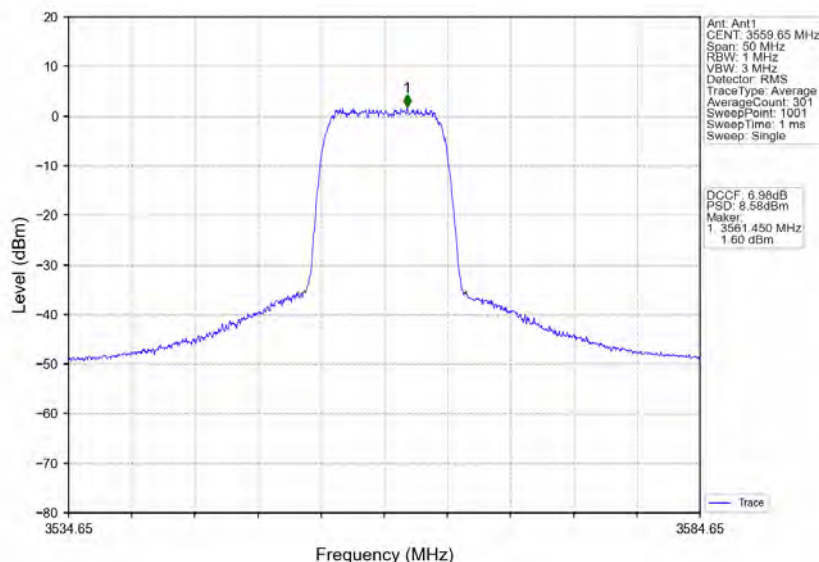
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3560.01MHz_Outer_Full



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3560.01MHz_Inner_Full



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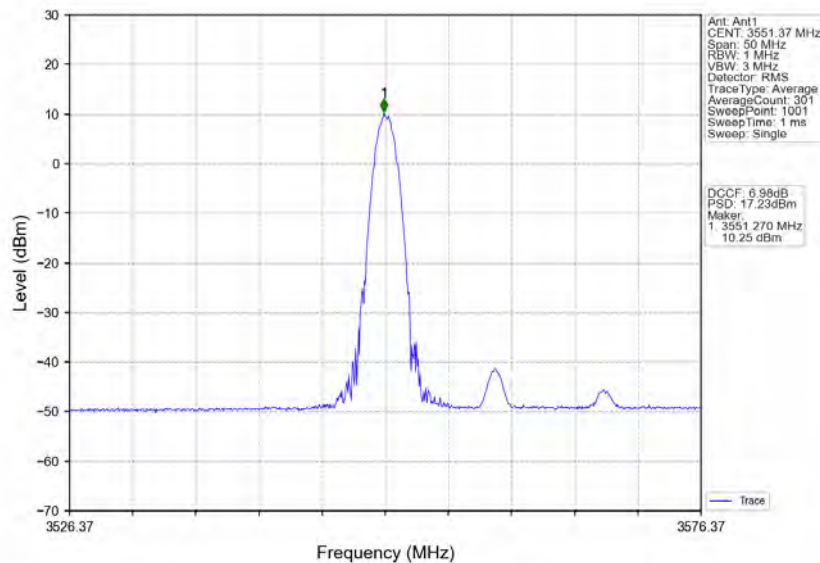
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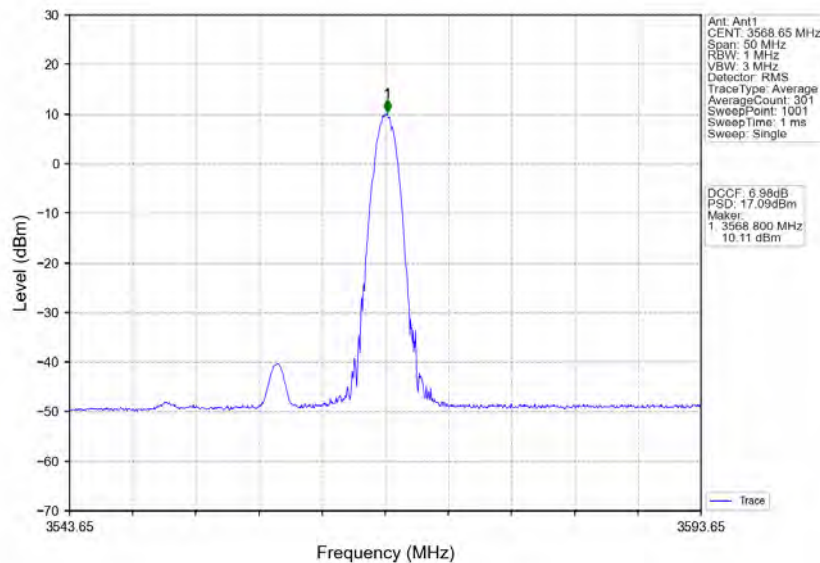
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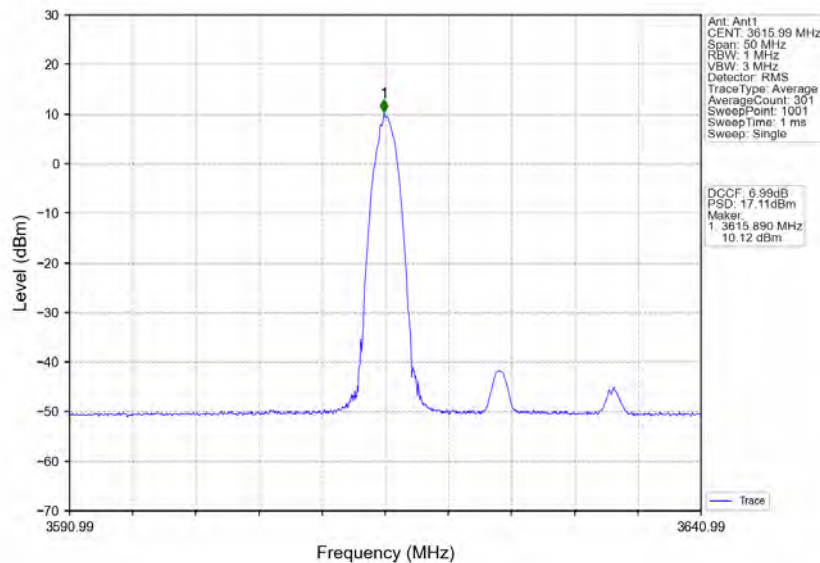
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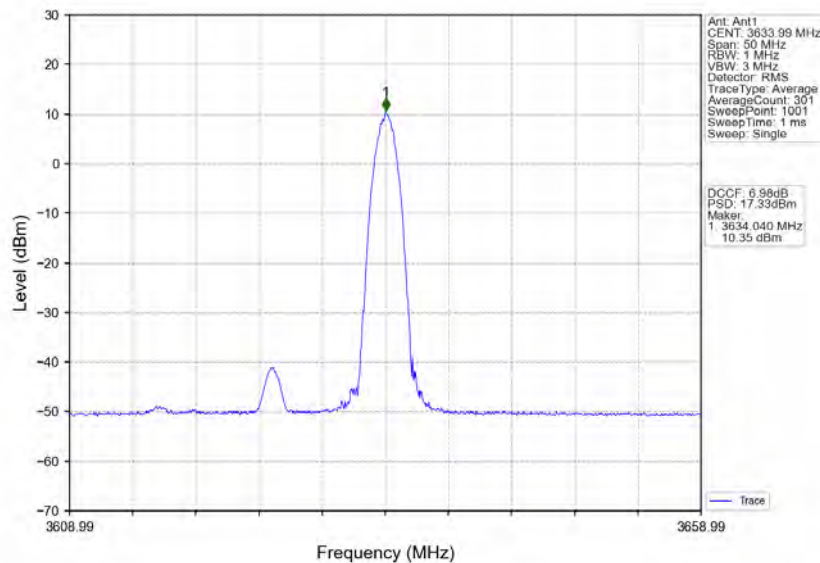
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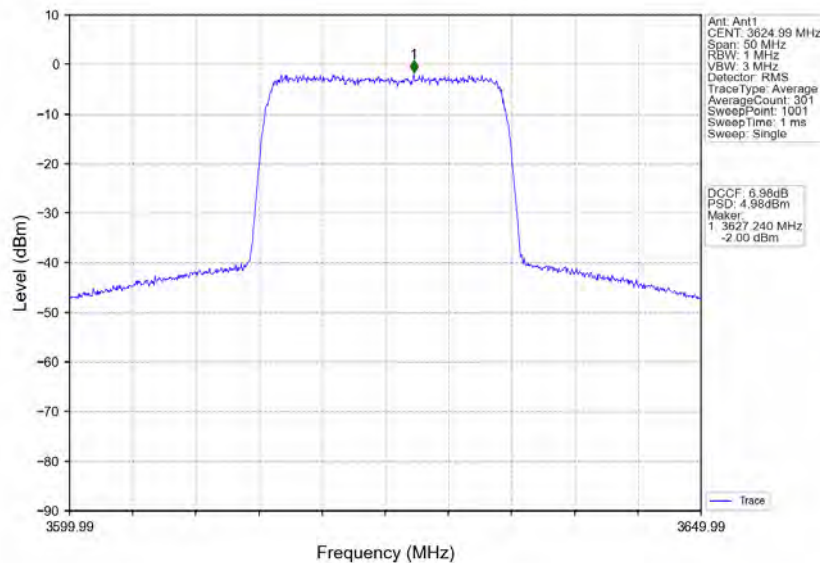
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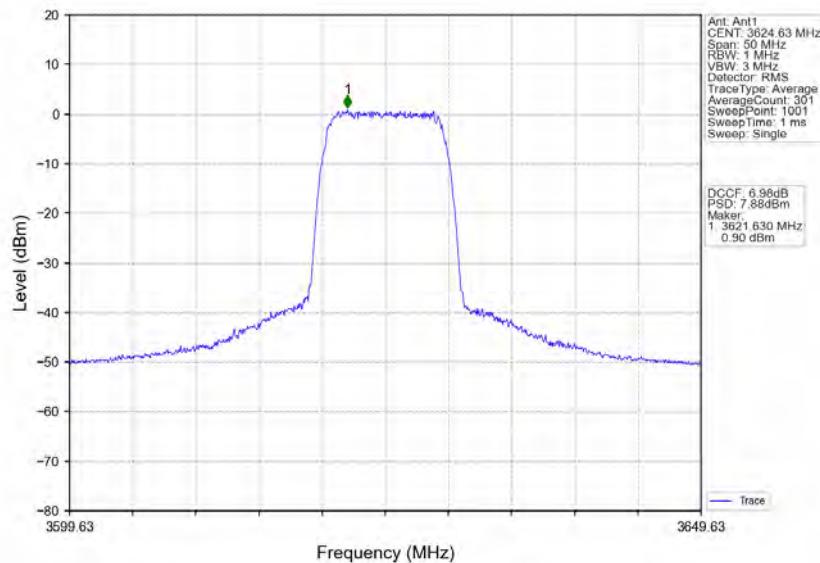
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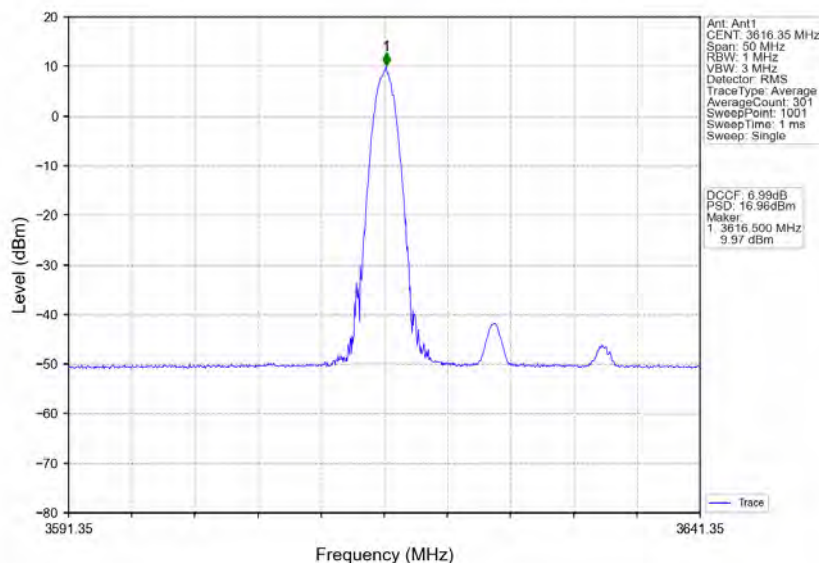
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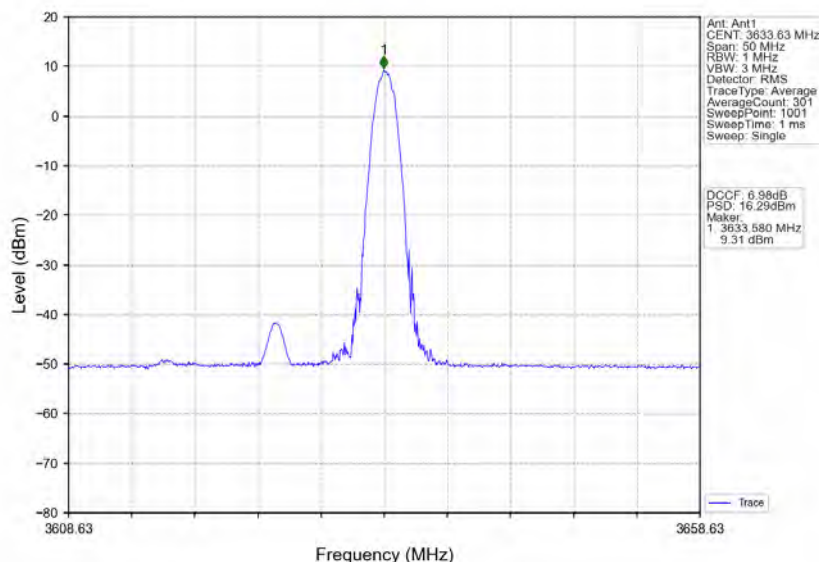
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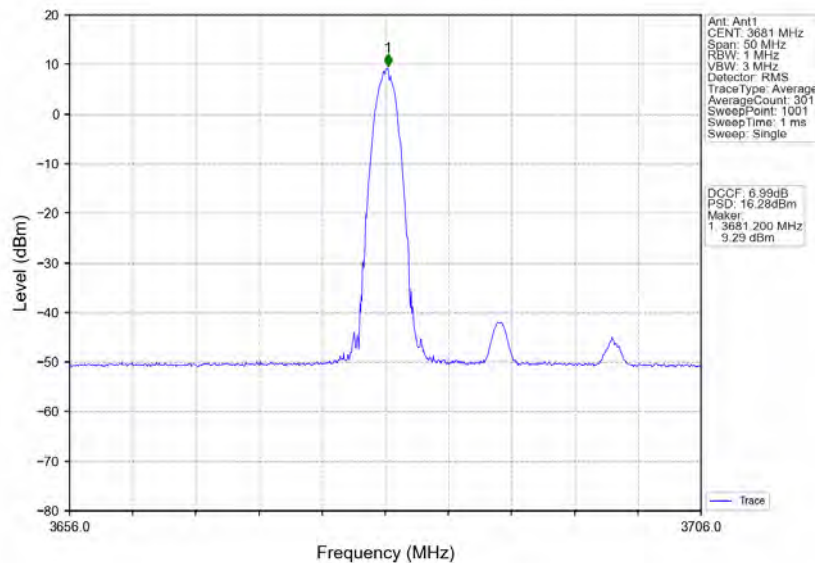
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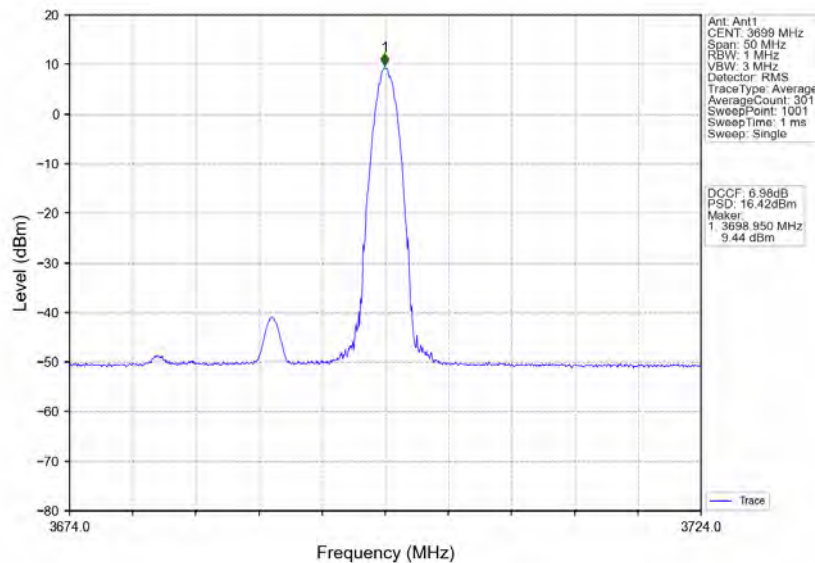
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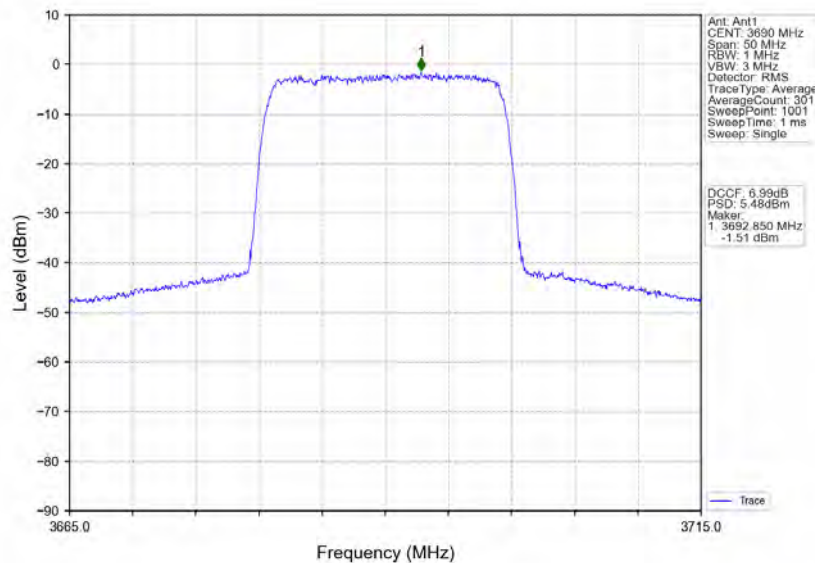
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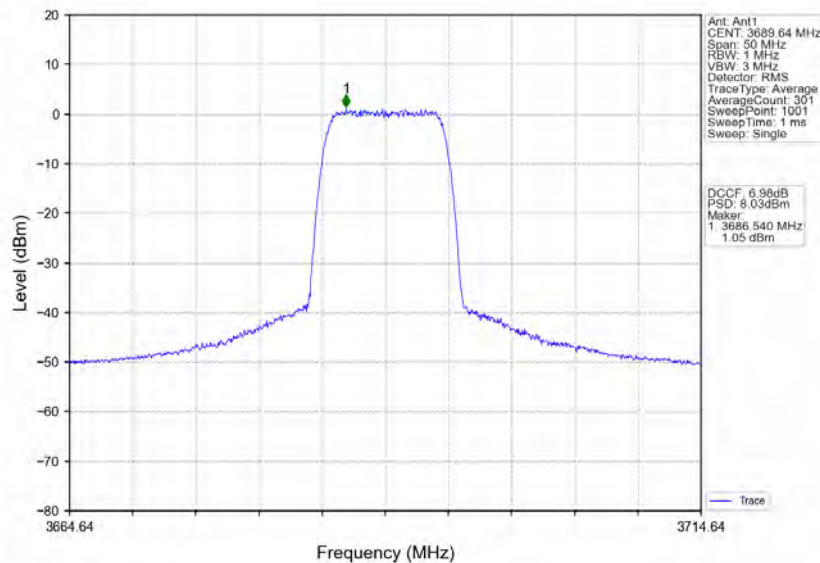
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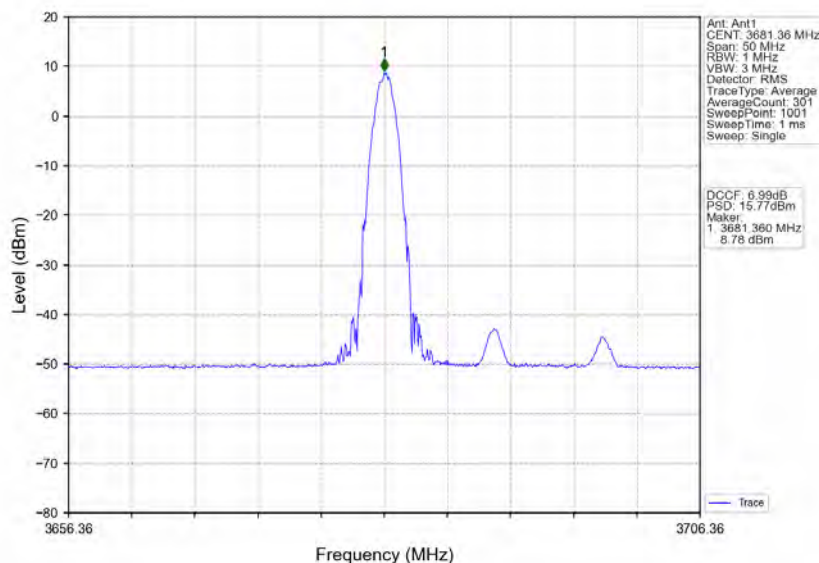
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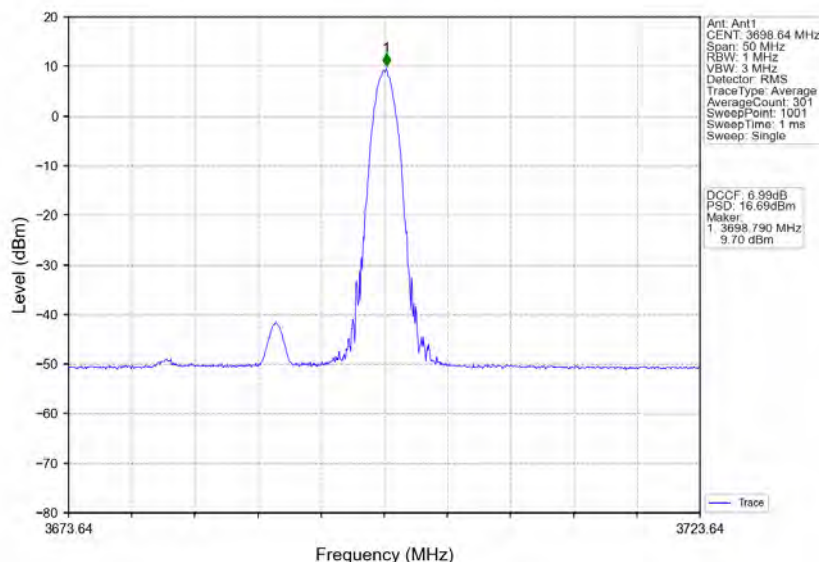
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2.7 30k_MIMO_40MHz_NTNV_EIRP

2.7.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge 1RB Left	18.97	19.00	22.00	33.29	33.35	36.33	-	Pass
		Edge 1RB Right	19.13	19.17	22.16	33.45	33.52	36.50	-	Pass
		Outer Full	19.26	19.22	22.25	33.58	33.57	36.59	-	Pass
		Inner Full	19.19	19.16	22.19	33.51	33.51	36.52	-	Pass
		Inner 1RB Left	19.15	19.07	22.12	33.47	33.42	36.46	-	Pass
		Inner 1RB Right	19.18	19.22	22.21	33.50	33.57	36.55	-	Pass
	3624.99	Edge 1RB Left	19.13	19.12	22.14	33.45	33.47	36.47	-	Pass
		Edge 1RB Right	19.09	19.17	22.14	33.41	33.52	36.48	-	Pass
		Outer Full	19.21	19.25	22.24	33.53	33.60	36.58	-	Pass
		Inner Full	19.15	19.22	22.20	33.47	33.57	36.53	-	Pass
		Inner 1RB Left	19.11	19.21	22.17	33.43	33.56	36.51	-	Pass
		Inner 1RB Right	19.14	19.13	22.15	33.46	33.48	36.48	-	Pass
	3679.98	Edge 1RB Left	18.87	18.88	21.89	33.19	33.23	36.22	-	Pass
		Edge 1RB Right	18.87	18.92	21.91	33.19	33.27	36.24	-	Pass
		Outer Full	18.91	18.95	21.94	33.23	33.30	36.28	-	Pass
		Inner Full	18.78	18.89	21.85	33.10	33.24	36.18	-	Pass
		Inner 1RB Left	18.89	18.91	21.91	33.21	33.26	36.25	-	Pass
		Inner 1RB Right	18.92	18.93	21.94	33.24	33.28	36.27	-	Pass
CP-OFDM 16 QAM	3570	Edge 1RB Left	19.22	19.18	22.21	33.54	33.53	36.55	-	Pass
		Edge 1RB Right	19.28	19.27	22.29	33.60	33.62	36.62	-	Pass
		Outer Full	19.18	19.12	22.16	33.50	33.47	36.50	-	Pass
		Inner Full	19.24	19.18	22.22	33.56	33.53	36.56	-	Pass
		Inner 1RB Left	19.18	19.13	22.17	33.50	33.48	36.50	-	Pass
		Inner 1RB Right	19.25	19.26	22.27	33.57	33.61	36.60	-	Pass
	3624.99	Edge 1RB Left	19.28	19.36	22.33	33.60	33.71	36.67	-	Pass
		Edge 1RB Right	19.28	19.25	22.28	33.60	33.60	36.61	-	Pass
		Outer Full	19.12	19.21	22.18	33.44	33.56	36.51	-	Pass
		Inner Full	19.29	19.29	22.30	33.61	33.64	36.64	-	Pass
		Inner 1RB Left	19.23	19.29	22.27	33.55	33.64	36.61	-	Pass
		Inner 1RB Right	19.26	19.26	22.27	33.58	33.61	36.61	-	Pass
	3679.98	Edge 1RB Left	19.04	19.10	22.08	33.36	33.45	36.42	-	Pass
		Edge 1RB Right	19.08	19.11	22.11	33.40	33.46	36.44	-	Pass
		Outer Full	18.94	18.92	21.94	33.26	33.27	36.28	-	Pass
		Inner Full	18.79	18.95	21.88	33.11	33.30	36.22	-	Pass
		Inner 1RB Left	19.06	19.12	22.10	33.38	33.47	36.44	-	Pass
		Inner 1RB Right	19.15	19.00	22.09	33.47	33.35	36.42	-	Pass
CP-OFDM 64 QAM	3570	Edge 1RB Left	19.25	19.22	22.25	33.57	33.57	36.58	-	Pass
		Edge 1RB Right	19.36	19.39	22.39	33.68	33.74	36.72	-	Pass
		Outer Full	19.20	19.18	22.20	33.52	33.53	36.54	-	Pass
		Inner Full	19.18	19.19	22.20	33.50	33.54	36.53	-	Pass
		Inner 1RB Left	19.26	19.12	22.20	33.58	33.47	36.54	-	Pass
		Inner 1RB Right	19.32	19.33	22.34	33.64	33.68	36.67	-	Pass
	3624.99	Edge 1RB Left	19.37	19.35	22.37	33.69	33.70	36.71	-	Pass
		Edge 1RB Right	19.28	19.28	22.29	33.60	33.63	36.63	-	Pass



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CP-OFDM 256 QAM		Outer Full	19.19	19.26	22.24	33.51	33.61	36.57	-	Pass
		Inner Full	19.25	19.29	22.28	33.57	33.64	36.62	-	Pass
		Inner 1RB Left	19.36	19.42	22.40	33.68	33.77	36.74	-	Pass
		Inner 1RB Right	19.39	19.36	22.39	33.71	33.71	36.72	-	Pass
	3679.98	Edge 1RB Left	19.03	18.94	22.00	33.35	33.29	36.33	-	Pass
		Edge 1RB Right	19.04	19.12	22.09	33.36	33.47	36.43	-	Pass
		Outer Full	18.93	18.92	21.94	33.25	33.27	36.27	-	Pass
		Inner Full	18.96	18.94	21.96	33.28	33.29	36.30	-	Pass
		Inner 1RB Left	18.97	18.98	21.99	33.29	33.33	36.32	-	Pass
		Inner 1RB Right	19.05	19.15	22.11	33.37	33.50	36.45	-	Pass
		Edge 1RB Left	17.60	17.50	20.56	31.92	31.85	34.90	-	Pass
		Edge 1RB Right	17.75	17.66	20.72	32.07	32.01	35.05	-	Pass
	3570	Outer Full	17.64	17.59	20.63	31.96	31.94	34.96	-	Pass
		Inner Full	17.67	17.72	20.71	31.99	32.07	35.04	-	Pass
		Inner 1RB Left	17.60	17.60	20.61	31.92	31.95	34.95	-	Pass
		Inner 1RB Right	17.62	17.65	20.65	31.94	32.00	34.98	-	Pass
	3624.99	Edge 1RB Left	17.71	17.58	20.66	32.03	31.93	34.99	-	Pass
		Edge 1RB Right	17.60	17.59	20.61	31.92	31.94	34.94	-	Pass
		Outer Full	17.75	17.76	20.77	32.07	32.11	35.10	-	Pass
		Inner Full	17.71	17.76	20.75	32.03	32.11	35.08	-	Pass
		Inner 1RB Left	17.58	17.69	20.65	31.90	32.04	34.98	-	Pass
		Inner 1RB Right	17.55	17.56	20.57	31.87	31.91	34.90	-	Pass
	3679.98	Edge 1RB Left	17.34	17.36	20.36	31.66	31.71	34.70	-	Pass
		Edge 1RB Right	17.45	17.48	20.48	31.77	31.83	34.81	-	Pass
		Outer Full	17.45	17.37	20.42	31.77	31.72	34.76	-	Pass
		Inner Full	17.38	17.39	20.40	31.70	31.74	34.73	-	Pass
		Inner 1RB Left	17.42	17.34	20.39	31.74	31.69	34.73	-	Pass
		Inner 1RB Right	17.30	17.50	20.41	31.62	31.85	34.75	-	Pass

Note1: Antenna Gain: Ant1: 14.32dBi; Ant2: 14.35dBi;
Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2

2.8 30k_MIMO_40MHz_NTNV_EIRP/10MHz

2.8.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge 1RB Left	18.57	18.17	21.38	32.89	32.52	35.72	<=47	Pass
		Edge 1RB Right	18.19	17.35	20.80	32.51	31.70	35.13	<=47	Pass
		Outer Full	12.36	11.53	14.98	26.68	25.88	29.31	<=47	Pass
		Inner Full	15.26	16.19	18.76	29.58	30.54	33.10	<=47	Pass
		Inner 1RB Left	18.23	20.41	22.47	32.55	34.76	36.80	<=47	Pass
		Inner 1RB Right	19.17	18.69	21.95	33.49	33.04	36.28	<=47	Pass
	3624.99	Edge 1RB Left	17.21	18.06	20.67	31.53	32.41	35.00	<=47	Pass
		Edge 1RB Right	18.62	18.62	21.63	32.94	32.97	35.97	<=47	Pass
		Outer Full	11.06	11.92	14.52	25.38	26.27	28.86	<=47	Pass
		Inner Full	16.29	15.03	18.72	30.61	29.38	33.05	<=47	Pass
		Inner 1RB Left	17.46	17.94	20.72	31.78	32.29	35.05	<=47	Pass
		Inner 1RB Right	18.44	18.29	21.38	32.76	32.64	35.71	<=47	Pass



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CP-OFDM 16 QAM	3679.98	Edge_1RB_Left	16.49	17.97	20.30	30.81	32.32	34.64	<=47	Pass
		Edge_1RB_Right	16.94	17.96	20.49	31.26	32.31	34.83	<=47	Pass
		Outer_Full	11.38	12.23	14.84	25.70	26.58	29.17	<=47	Pass
		Inner_Full	15.57	14.88	18.25	29.89	29.23	32.58	<=47	Pass
		Inner_1RB_Left	19.01	17.48	21.32	33.33	31.83	35.65	<=47	Pass
		Inner_1RB_Right	17.67	17.95	20.82	31.99	32.30	35.16	<=47	Pass
	3570	Edge_1RB_Left	19.38	18.85	22.13	33.70	33.20	36.47	<=47	Pass
		Edge_1RB_Right	17.40	19.92	21.85	31.72	34.27	36.19	<=47	Pass
		Outer_Full	11.85	12.41	15.15	26.17	26.76	29.49	<=47	Pass
		Inner_Full	16.15	15.43	18.82	30.47	29.78	33.15	<=47	Pass
		Inner_1RB_Left	19.71	16.74	21.48	34.03	31.09	35.81	<=47	Pass
		Inner_1RB_Right	18.05	17.02	20.58	32.37	31.37	34.91	<=47	Pass
CP-OFDM 64 QAM	3624.99	Edge_1RB_Left	17.02	19.39	21.38	31.34	33.74	35.71	<=47	Pass
		Edge_1RB_Right	18.07	17.32	20.72	32.39	31.67	35.06	<=47	Pass
		Outer_Full	12.33	12.27	15.31	26.65	26.62	29.65	<=47	Pass
		Inner_Full	16.51	13.34	18.22	30.83	27.69	32.55	<=47	Pass
		Inner_1RB_Left	19.31	18.68	22.02	33.63	33.03	36.35	<=47	Pass
		Inner_1RB_Right	17.57	17.86	20.73	31.89	32.21	35.06	<=47	Pass
	3679.98	Edge_1RB_Left	17.91	18.09	21.01	32.23	32.44	35.35	<=47	Pass
		Edge_1RB_Right	17.92	18.85	21.42	32.24	33.20	35.76	<=47	Pass
		Outer_Full	10.84	11.24	14.05	25.16	25.59	28.39	<=47	Pass
		Inner_Full	16.13	15.86	19.01	30.45	30.21	33.34	<=47	Pass
		Inner_1RB_Left	16.66	18.74	20.83	30.98	33.09	35.17	<=47	Pass
		Inner_1RB_Right	18.03	17.70	20.88	32.35	32.05	35.21	<=47	Pass
CP-OFDM 256 QAM	3570	Edge_1RB_Left	17.56	18.09	20.84	31.88	32.44	35.18	<=47	Pass
		Edge_1RB_Right	19.09	18.68	21.90	33.41	33.03	36.23	<=47	Pass
		Outer_Full	13.30	12.01	15.71	27.62	26.36	30.05	<=47	Pass
		Inner_Full	14.91	16.40	18.73	29.23	30.75	33.07	<=47	Pass
		Inner_1RB_Left	17.16	20.39	22.08	31.48	34.74	36.42	<=47	Pass
		Inner_1RB_Right	18.02	19.21	21.67	32.34	33.56	36.00	<=47	Pass
	3624.99	Edge_1RB_Left	17.73	18.30	21.03	32.05	32.65	35.37	<=47	Pass
		Edge_1RB_Right	19.65	16.72	21.44	33.97	31.07	35.77	<=47	Pass
		Outer_Full	12.00	10.51	14.33	26.32	24.86	28.66	<=47	Pass
		Inner_Full	13.97	14.69	17.36	28.29	29.04	31.69	<=47	Pass
		Inner_1RB_Left	17.59	19.14	21.44	31.91	33.49	35.78	<=47	Pass
		Inner_1RB_Right	17.31	18.28	20.83	31.63	32.63	35.17	<=47	Pass
CP-OFDM 256 QAM	3679.98	Edge_1RB_Left	17.52	17.32	20.43	31.84	31.67	34.77	<=47	Pass
		Edge_1RB_Right	17.97	17.71	20.85	32.29	32.06	35.19	<=47	Pass
		Outer_Full	12.17	12.27	15.23	26.49	26.62	29.57	<=47	Pass
		Inner_Full	14.10	15.56	17.90	28.42	29.91	32.24	<=47	Pass
		Inner_1RB_Left	17.48	18.17	20.85	31.80	32.52	35.19	<=47	Pass
		Inner_1RB_Right	18.39	17.39	20.93	32.71	31.74	35.26	<=47	Pass
	3570	Edge_1RB_Left	16.28	16.57	19.44	30.60	30.92	33.77	<=47	Pass
		Edge_1RB_Right	17.67	17.27	20.48	31.99	31.62	34.82	<=47	Pass
		Outer_Full	10.77	12.73	14.87	25.09	27.08	29.21	<=47	Pass
		Inner_Full	13.74	14.61	17.21	28.06	28.96	31.54	<=47	Pass
		Inner_1RB_Left	17.30	16.77	20.05	31.62	31.12	34.39	<=47	Pass
		Inner_1RB_Right	14.40	17.05	18.93	28.72	31.40	33.27	<=47	Pass
CP-OFDM 256 QAM	3624.99	Edge_1RB_Left	17.10	17.10	20.11	31.42	31.45	34.45	<=47	Pass
		Edge_1RB_Right	17.07	15.89	19.53	31.39	30.24	33.86	<=47	Pass
		Outer_Full	11.11	10.76	13.95	25.43	25.11	28.28	<=47	Pass
		Inner_Full	12.98	15.31	17.31	27.30	29.66	31.65	<=47	Pass
		Inner_1RB_Left	17.27	16.84	20.07	31.59	31.19	34.40	<=47	Pass
		Inner_1RB_Right	15.17	15.92	18.57	29.49	30.27	32.91	<=47	Pass

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	3679.98	Edge_1RB_Left	14.76	16.26	18.58	29.08	30.61	32.92	<=47	Pass
		Edge_1RB_Right	16.44	16.11	19.29	30.76	30.46	33.62	<=47	Pass
		Outer_Full	10.50	11.09	13.82	24.82	25.44	28.15	<=47	Pass
		Inner_Full	11.74	13.81	15.91	26.06	28.16	30.25	<=47	Pass
		Inner_1RB_Left	15.89	16.88	19.42	30.21	31.23	33.76	<=47	Pass
		Inner_1RB_Right	16.26	17.29	19.82	30.58	31.64	34.15	<=47	Pass
Note1: Antenna Gain: Ant1: 14.32dBi; Ant2: 14.35dBi; Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2										

2.9 30k_MIMO_40MHz_NTNV_PSD

2.9.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge_1RB_Left	18.78	18.46	21.63	33.10	32.81	35.97	<=37	Pass
		Edge_1RB_Right	18.72	19.00	21.87	33.04	33.35	36.21	<=37	Pass
		Outer_Full	3.83	4.60	7.24	18.15	18.95	21.58	<=37	Pass
		Inner_Full	6.86	7.68	10.30	21.18	22.03	24.64	<=37	Pass
		Inner_1RB_Left	19.23	18.44	21.86	33.55	32.79	36.20	<=37	Pass
		Inner_1RB_Right	19.48	18.98	22.25	33.80	33.33	36.58	<=37	Pass
	3624.99	Edge_1RB_Left	19.42	18.98	22.22	33.74	33.33	36.55	<=37	Pass
		Edge_1RB_Right	18.29	17.04	20.72	32.61	31.39	35.05	<=37	Pass
		Outer_Full	4.02	4.21	7.13	18.34	18.56	21.46	<=37	Pass
		Inner_Full	6.82	6.76	9.80	21.14	21.11	24.14	<=37	Pass
		Inner_1RB_Left	17.49	17.81	20.66	31.81	32.16	35.00	<=37	Pass
		Inner_1RB_Right	18.06	18.07	21.08	32.38	32.42	35.41	<=37	Pass
	3679.98	Edge_1RB_Left	18.20	19.06	21.66	32.52	33.41	36.00	<=37	Pass
		Edge_1RB_Right	17.51	19.22	21.46	31.83	33.57	35.80	<=37	Pass
		Outer_Full	3.36	3.99	6.70	17.68	18.34	21.03	<=37	Pass
		Inner_Full	6.21	6.64	9.44	20.53	20.99	23.78	<=37	Pass
		Inner_1RB_Left	18.30	17.59	20.97	32.62	31.94	35.30	<=37	Pass
		Inner_1RB_Right	18.53	17.79	21.19	32.85	32.14	35.52	<=37	Pass
CP-OFDM 16 QAM	3570	Edge_1RB_Left	17.92	18.45	21.20	32.24	32.80	35.54	<=37	Pass
		Edge_1RB_Right	18.90	19.16	22.04	33.22	33.51	36.38	<=37	Pass
		Outer_Full	4.38	4.66	7.53	18.70	19.01	21.87	<=37	Pass
		Inner_Full	7.83	7.12	10.50	22.15	21.47	24.83	<=37	Pass
		Inner_1RB_Left	18.69	18.94	21.83	33.01	33.29	36.16	<=37	Pass
		Inner_1RB_Right	19.27	18.97	22.13	33.59	33.32	36.47	<=37	Pass
	3624.99	Edge_1RB_Left	18.80	18.34	21.59	33.12	32.69	35.92	<=37	Pass
		Edge_1RB_Right	18.61	18.35	21.49	32.93	32.70	35.83	<=37	Pass
		Outer_Full	3.51	4.42	7.00	17.83	18.77	21.34	<=37	Pass
		Inner_Full	6.56	6.69	9.64	20.88	21.04	23.97	<=37	Pass
		Inner_1RB_Left	18.38	18.65	21.53	32.70	33.00	35.86	<=37	Pass
		Inner_1RB_Right	18.03	18.18	21.12	32.35	32.53	35.45	<=37	Pass
	3679.98	Edge_1RB_Left	18.99	17.53	21.33	33.31	31.88	35.66	<=37	Pass
		Edge_1RB_Right	18.16	18.85	21.53	32.48	33.20	35.87	<=37	Pass
		Outer_Full	3.64	3.56	6.61	17.96	17.91	20.95	<=37	Pass
		Inner_Full	5.87	6.61	9.27	20.19	20.96	23.60	<=37	Pass
		Inner_1RB_Left	19.71	17.48	21.75	34.03	31.83	36.08	<=37	Pass



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CP-OFDM 64 QAM	3570	Inner 1RB Right	17.70	18.42	21.09	32.02	32.77	35.42	<=37	Pass
		Edge 1RB Left	18.38	19.36	21.91	32.70	33.71	36.24	<=37	Pass
		Edge 1RB Right	18.85	18.61	21.74	33.17	32.96	36.08	<=37	Pass
		Outer Full	4.08	4.69	7.41	18.40	19.04	21.74	<=37	Pass
		Inner Full	6.59	7.10	9.86	20.91	21.45	24.20	<=37	Pass
		Inner 1RB Left	18.85	18.37	21.63	33.17	32.72	35.96	<=37	Pass
	3624.99	Inner 1RB Right	18.76	20.01	22.44	33.08	34.36	36.78	<=37	Pass
		Edge 1RB Left	19.20	19.03	22.13	33.52	33.38	36.46	<=37	Pass
		Edge 1RB Right	17.68	18.53	21.14	32.00	32.88	35.47	<=37	Pass
		Outer Full	3.33	3.54	6.45	17.65	17.89	20.78	<=37	Pass
		Inner Full	6.82	6.77	9.81	21.14	21.12	24.14	<=37	Pass
		Inner 1RB Left	18.19	18.86	21.55	32.51	33.21	35.88	<=37	Pass
	3679.98	Inner 1RB Right	17.27	18.51	20.94	31.59	32.86	35.28	<=37	Pass
		Edge 1RB Left	18.55	18.69	21.63	32.87	33.04	35.97	<=37	Pass
		Edge 1RB Right	18.88	18.64	21.77	33.20	32.99	36.11	<=37	Pass
		Outer Full	2.97	3.88	6.46	17.29	18.23	20.80	<=37	Pass
		Inner Full	6.00	5.64	8.83	20.32	19.99	23.17	<=37	Pass
		Inner 1RB Left	18.20	17.81	21.02	32.52	32.16	35.35	<=37	Pass
CP-OFDM 256 QAM	3570	Inner 1RB Right	17.95	17.66	20.82	32.27	32.01	35.15	<=37	Pass
		Edge 1RB Left	17.99	17.01	20.54	32.31	31.36	34.87	<=37	Pass
		Edge 1RB Right	16.99	17.30	20.16	31.31	31.65	34.49	<=37	Pass
		Outer Full	3.27	3.08	6.19	17.59	17.43	20.52	<=37	Pass
		Inner Full	5.11	6.09	8.64	19.43	20.44	22.97	<=37	Pass
		Inner 1RB Left	17.33	16.70	20.04	31.65	31.05	34.37	<=37	Pass
	3624.99	Inner 1RB Right	17.74	16.28	20.08	32.06	30.63	34.41	<=37	Pass
		Edge 1RB Left	18.06	16.91	20.53	32.38	31.26	34.87	<=37	Pass
		Edge 1RB Right	16.13	16.66	19.41	30.45	31.01	33.75	<=37	Pass
		Outer Full	2.58	2.84	5.72	16.90	17.19	20.06	<=37	Pass
		Inner Full	5.30	5.77	8.55	19.62	20.12	22.89	<=37	Pass
		Inner 1RB Left	17.45	17.50	20.49	31.77	31.85	34.82	<=37	Pass
	3679.98	Inner 1RB Right	16.17	16.81	19.51	30.49	31.16	33.85	<=37	Pass
		Edge 1RB Left	15.03	15.91	18.50	29.35	30.26	32.84	<=37	Pass
		Edge 1RB Right	17.08	15.85	19.52	31.40	30.20	33.85	<=37	Pass
		Outer Full	2.15	2.23	5.20	16.47	16.58	19.54	<=37	Pass
		Inner Full	4.42	4.31	7.38	18.74	18.66	21.71	<=37	Pass
		Inner 1RB Left	15.77	15.79	18.79	30.09	30.14	33.13	<=37	Pass
		Inner 1RB Right	17.27	15.30	19.41	31.59	29.65	33.74	<=37	Pass

Note1: Antenna Gain: Ant1: 14.32dBi; Ant2: 14.35dBi;

Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2



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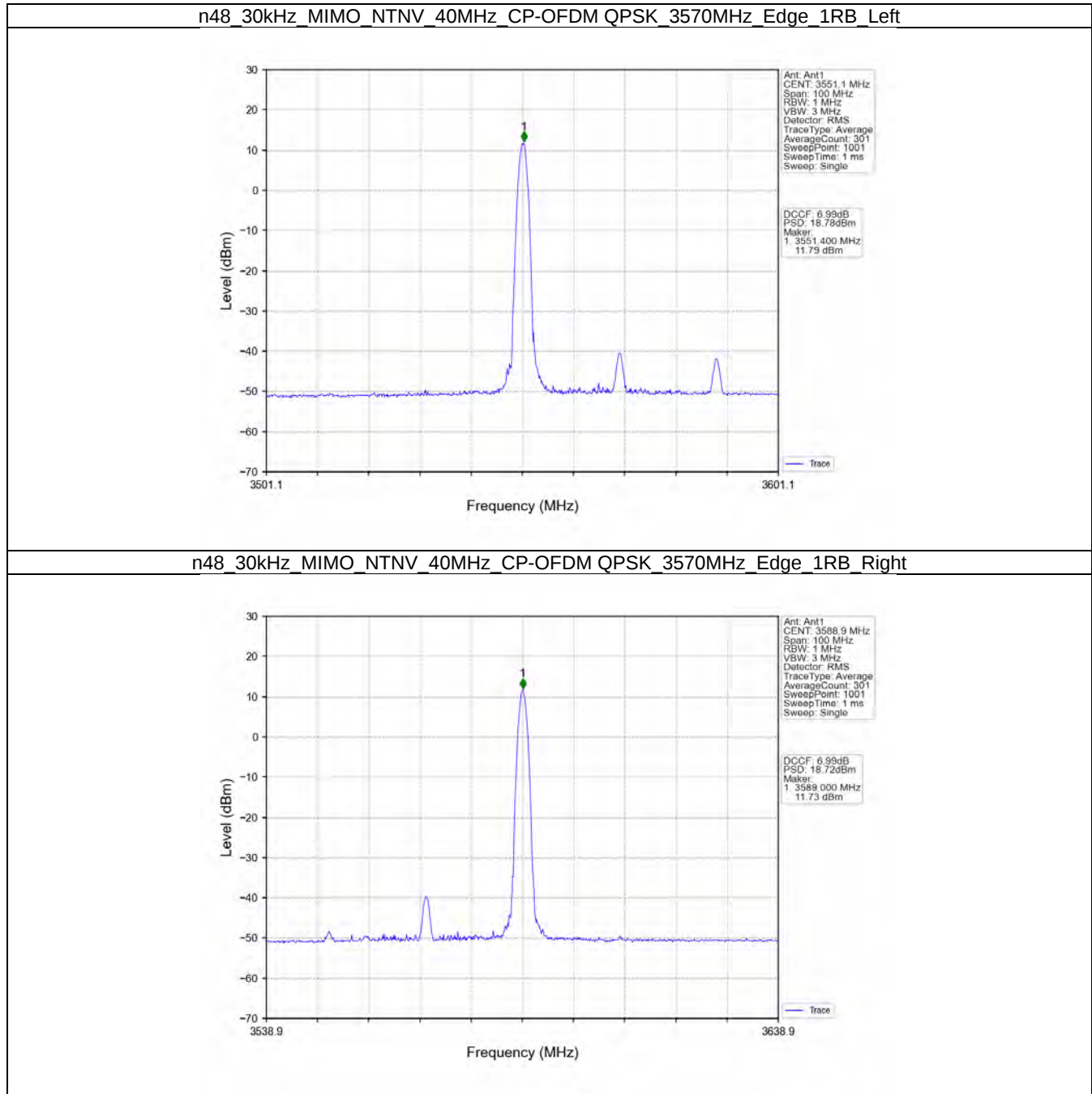
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2.9.2 Test Graph for ANT1



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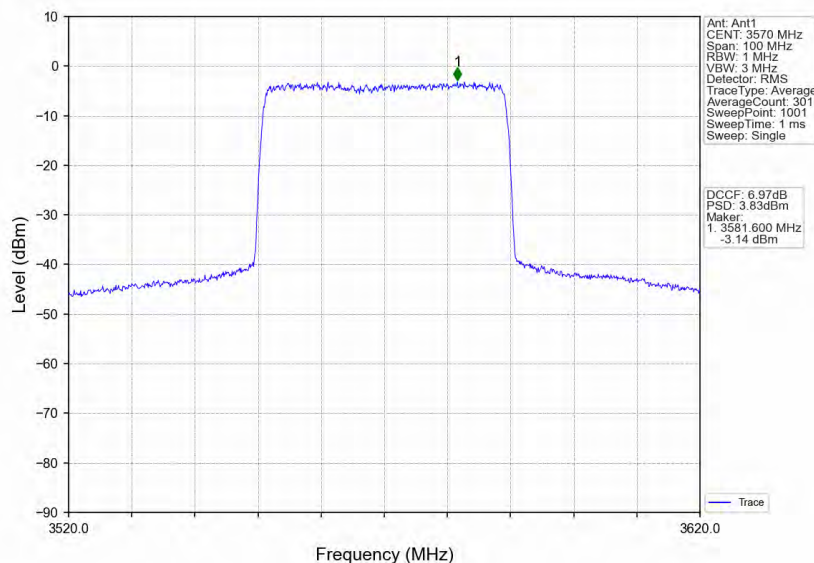
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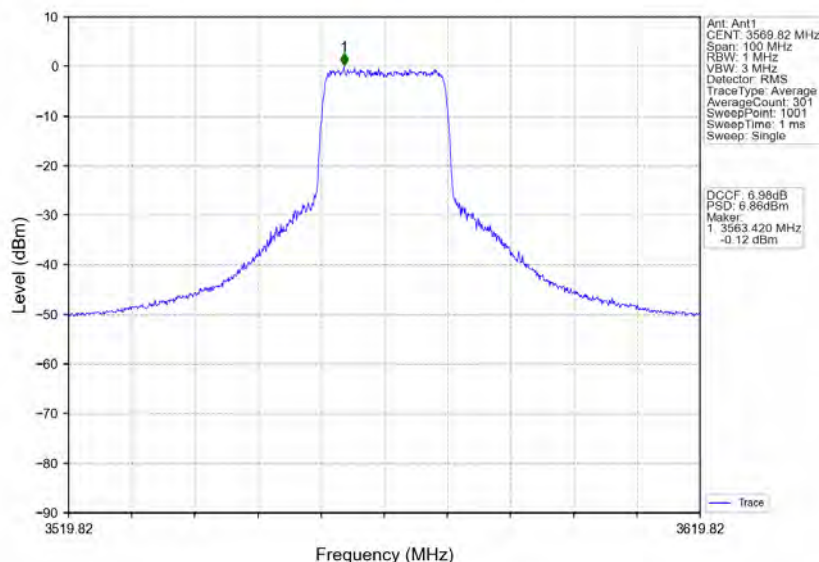
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Inner_Full



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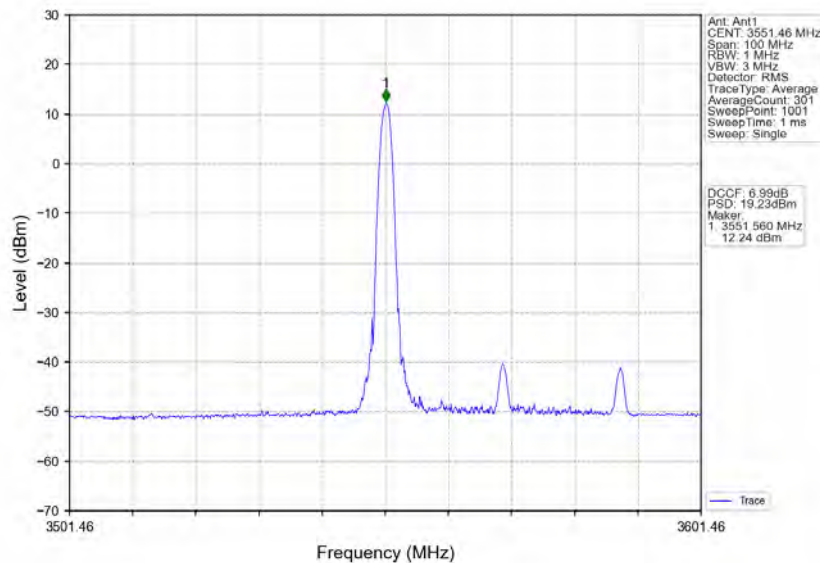
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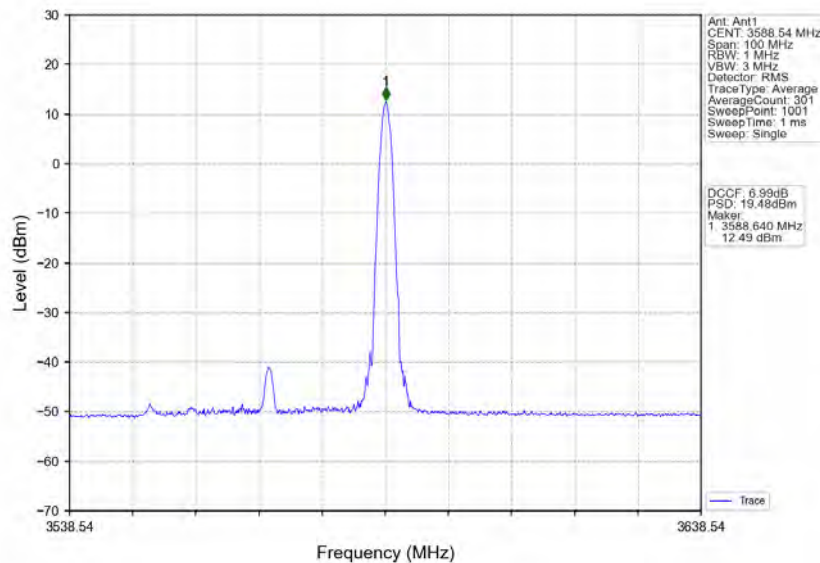
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_QPSK_3570MHz_Inner_1RB_Right



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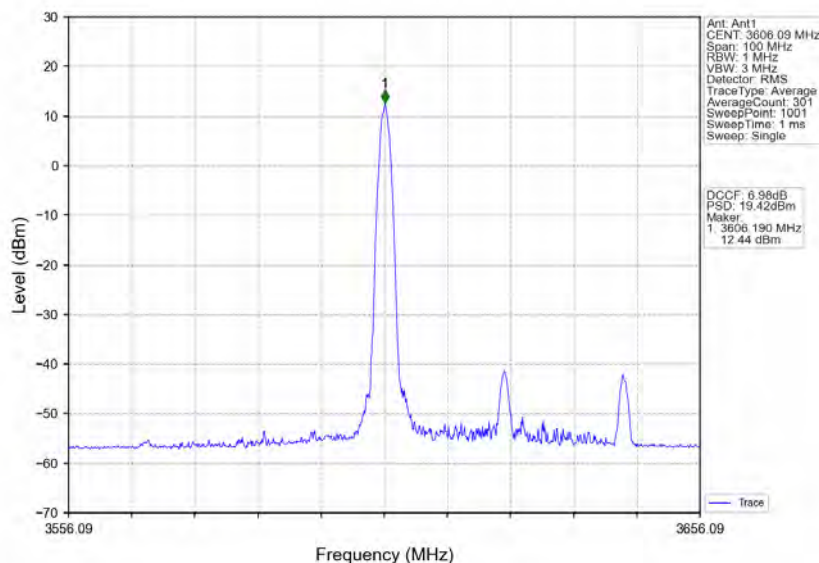
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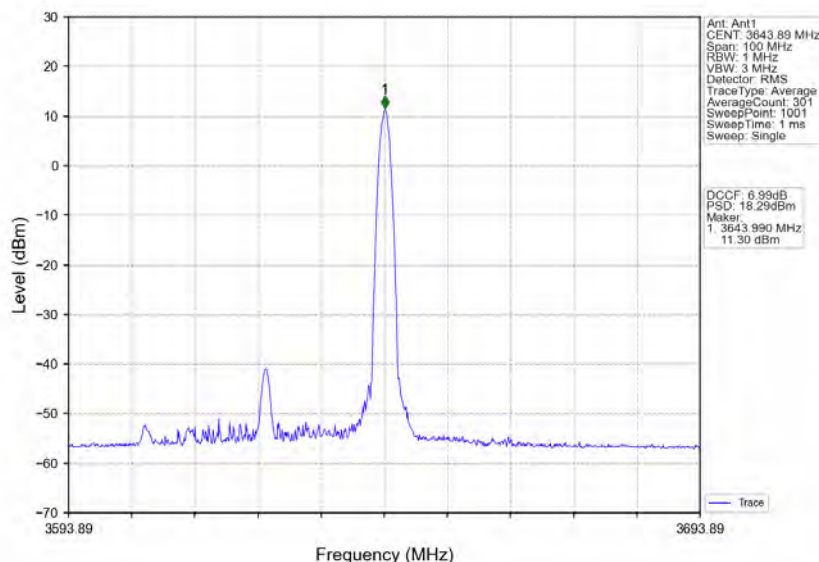
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_QPSK_3624.99MHz_Edge_1RB_Right



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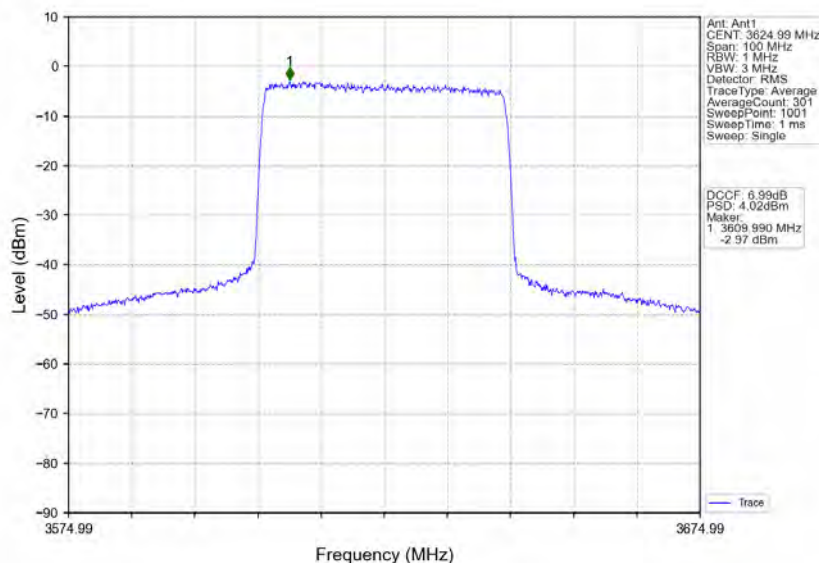
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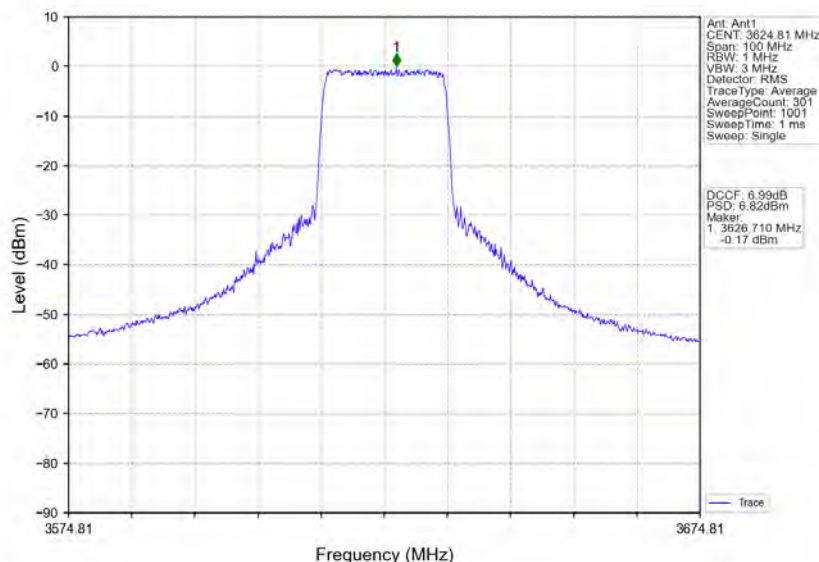
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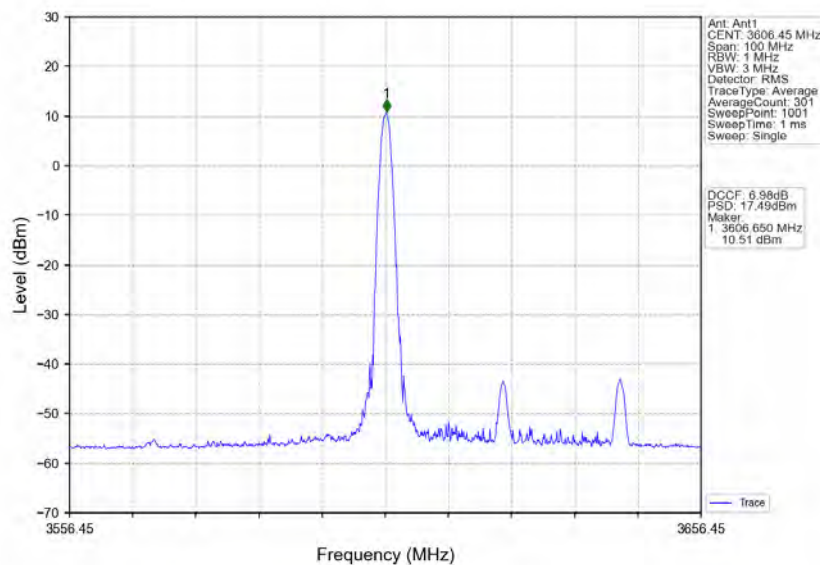
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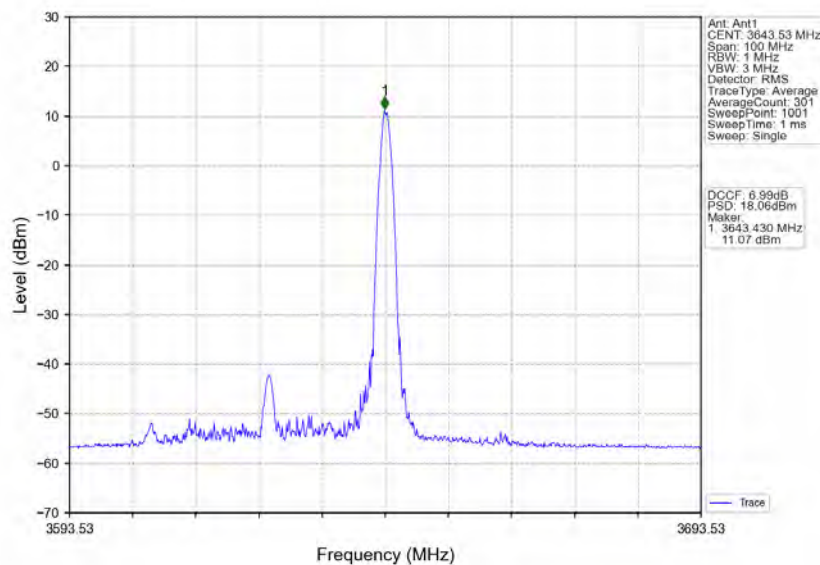
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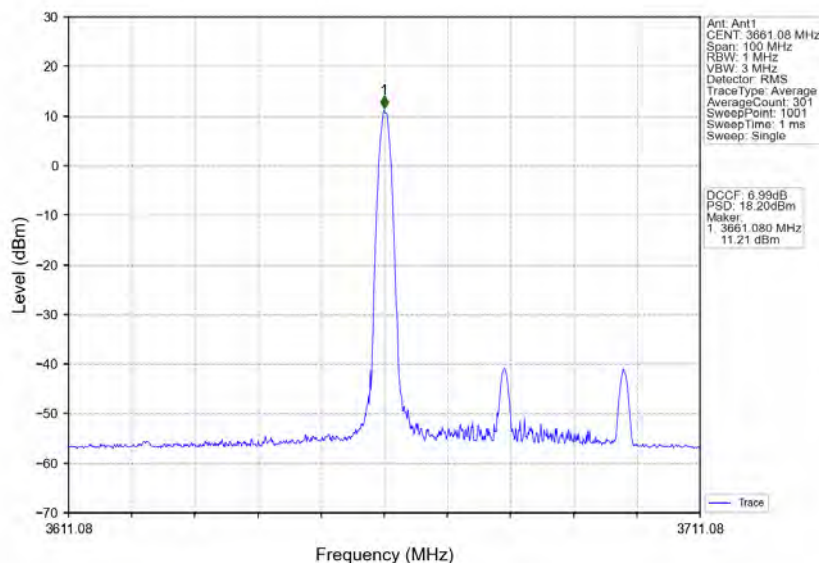
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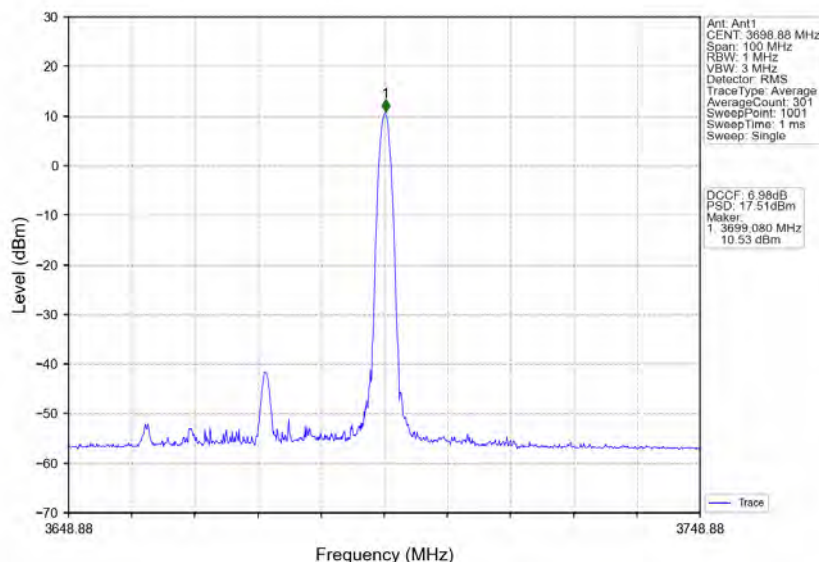
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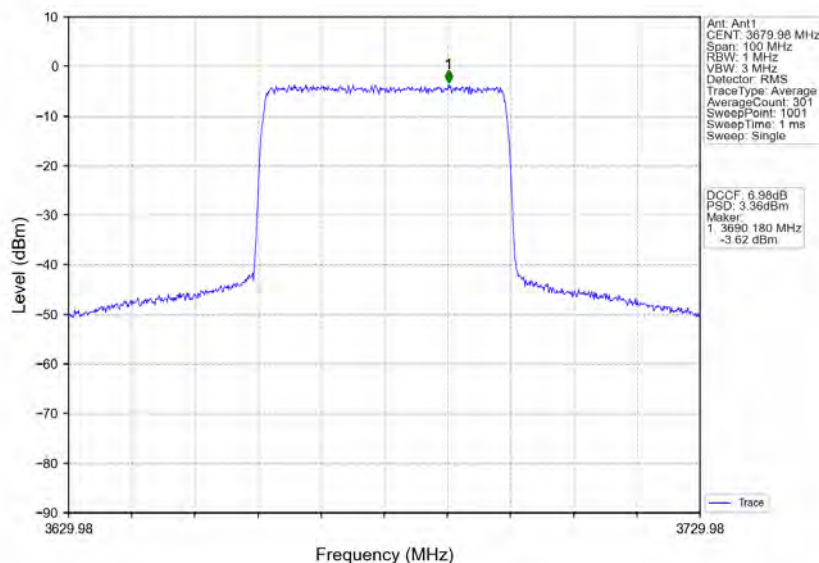
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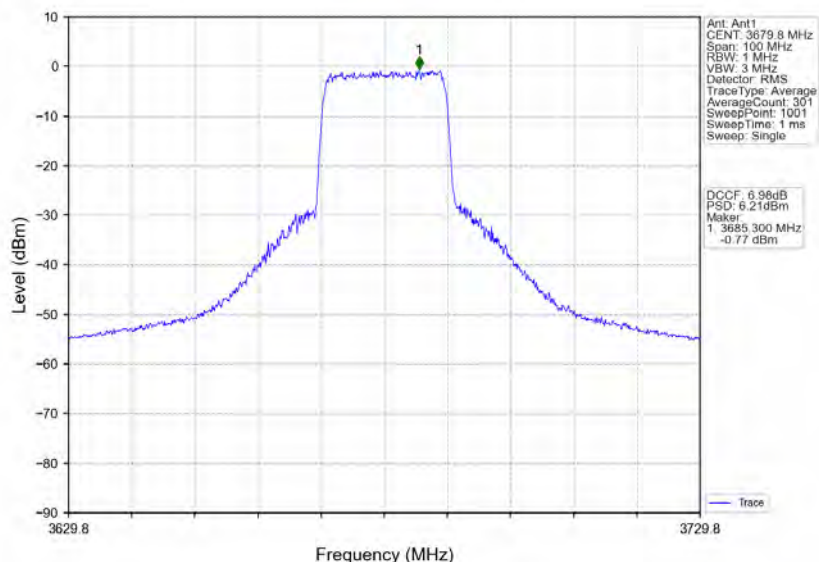
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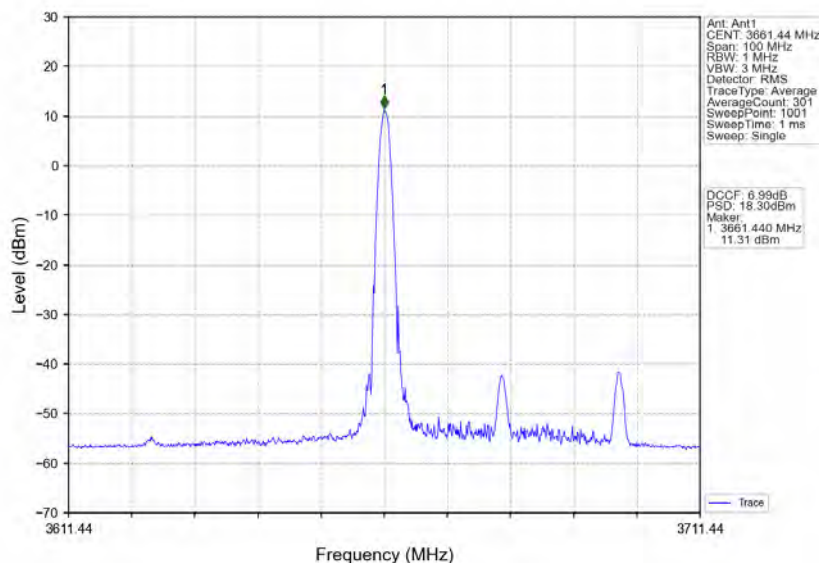
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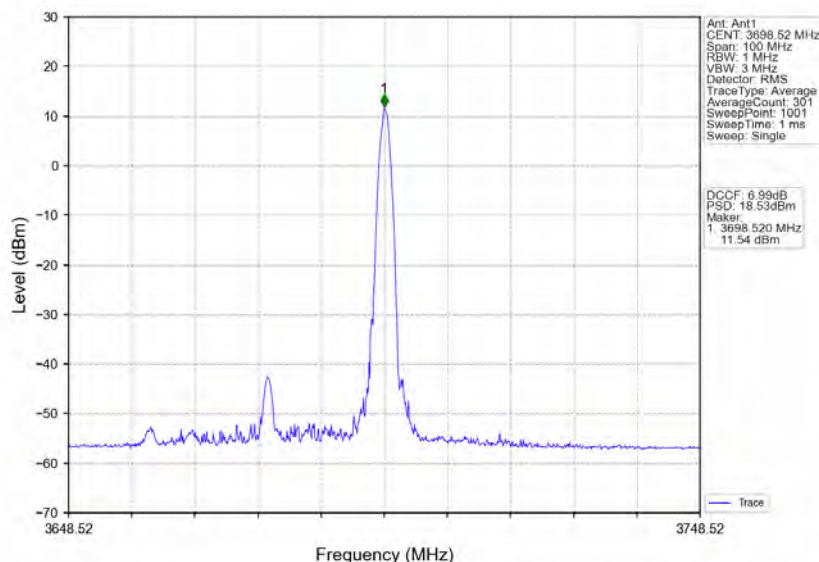
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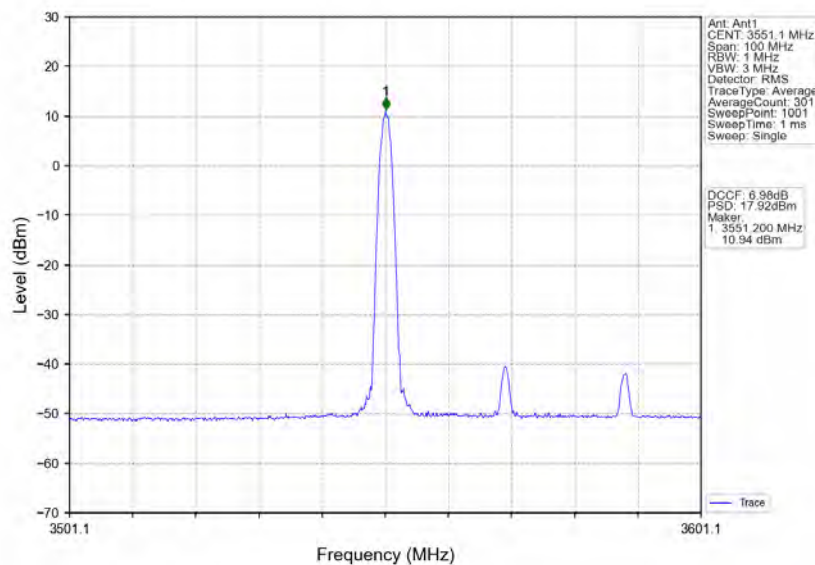
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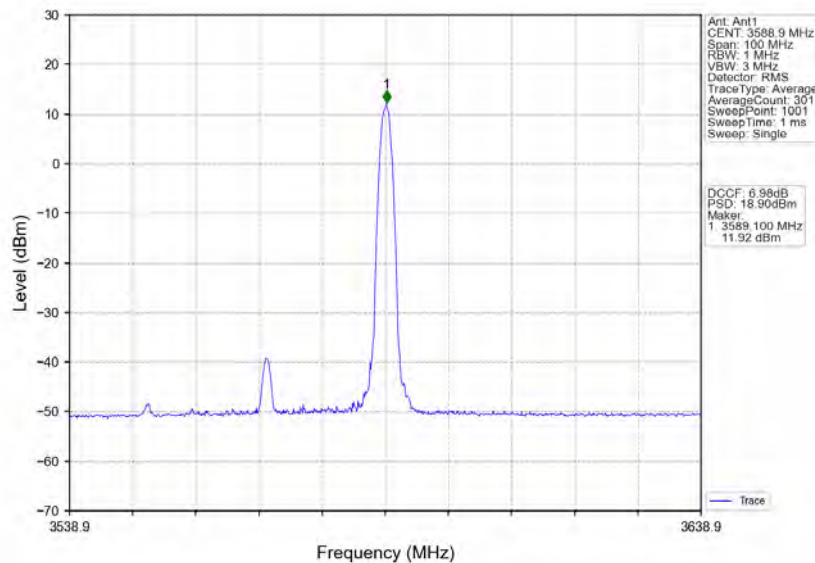
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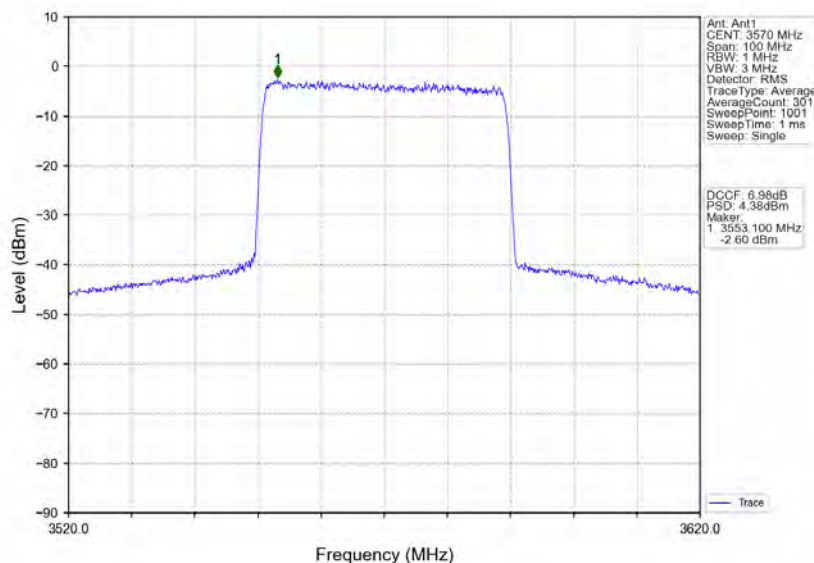
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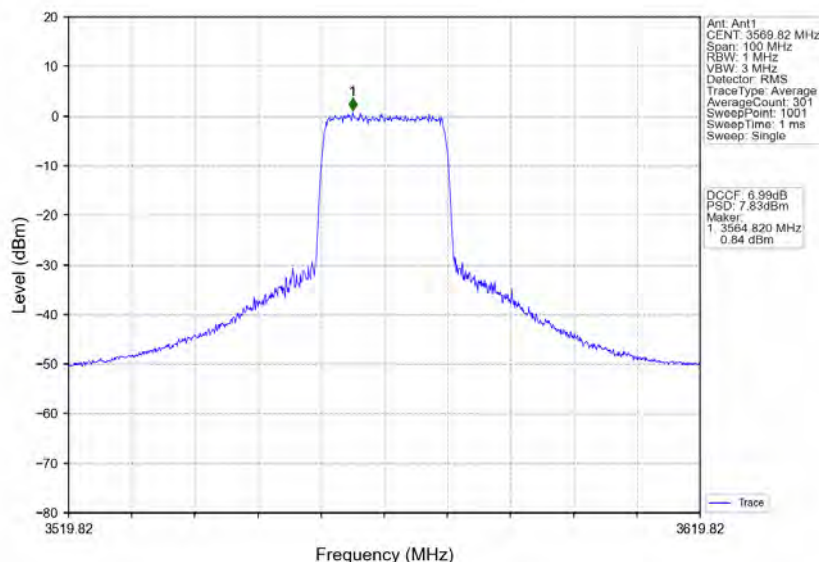
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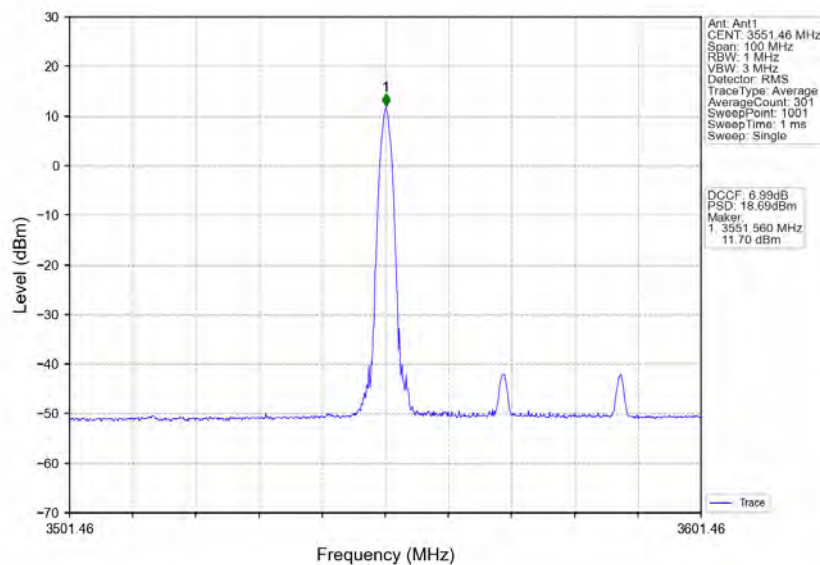
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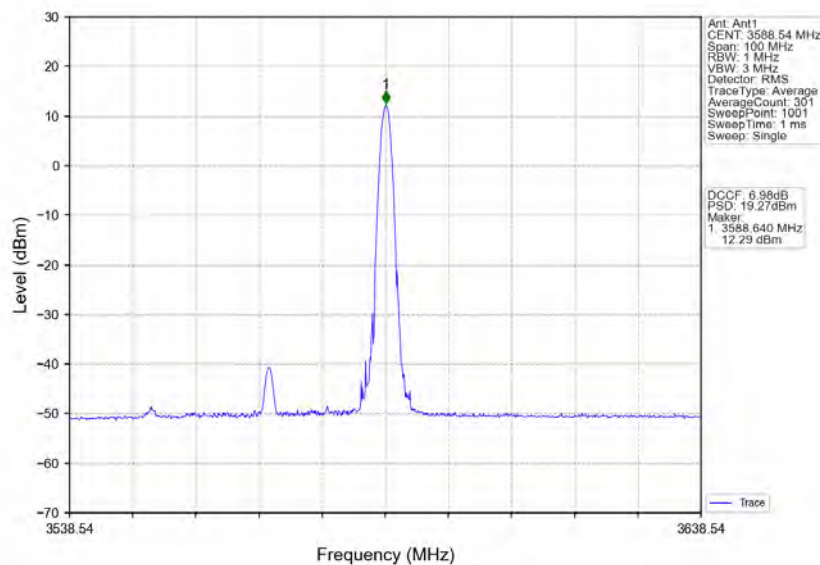
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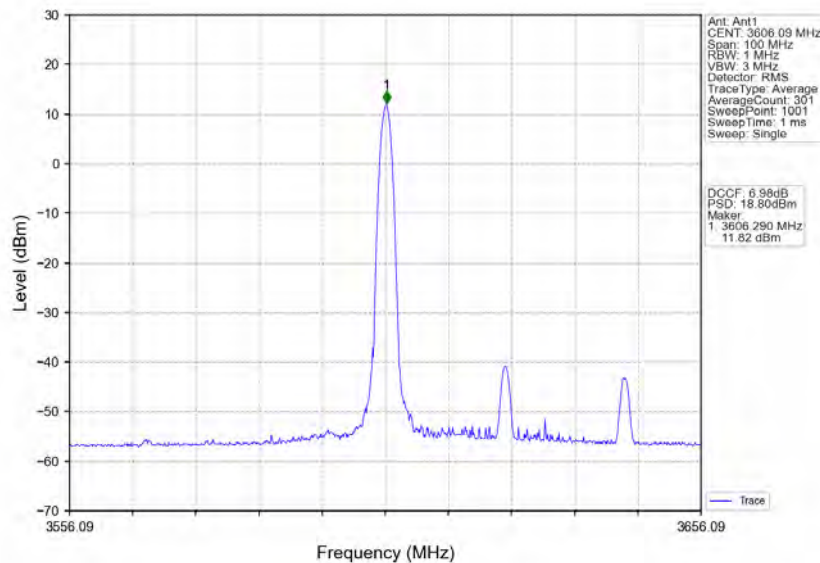
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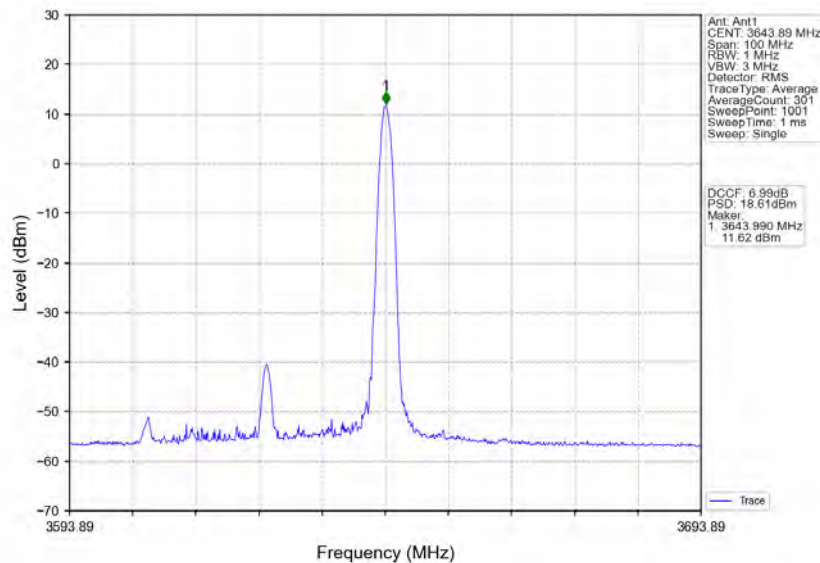
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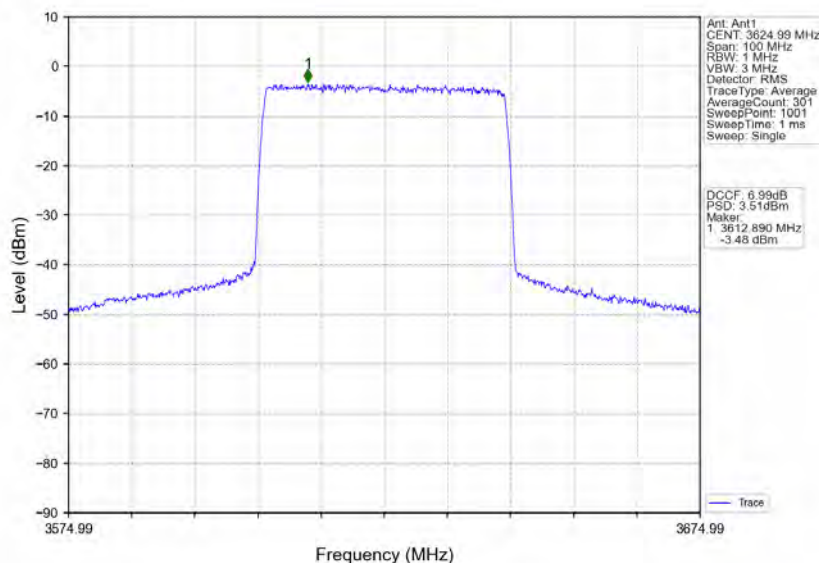
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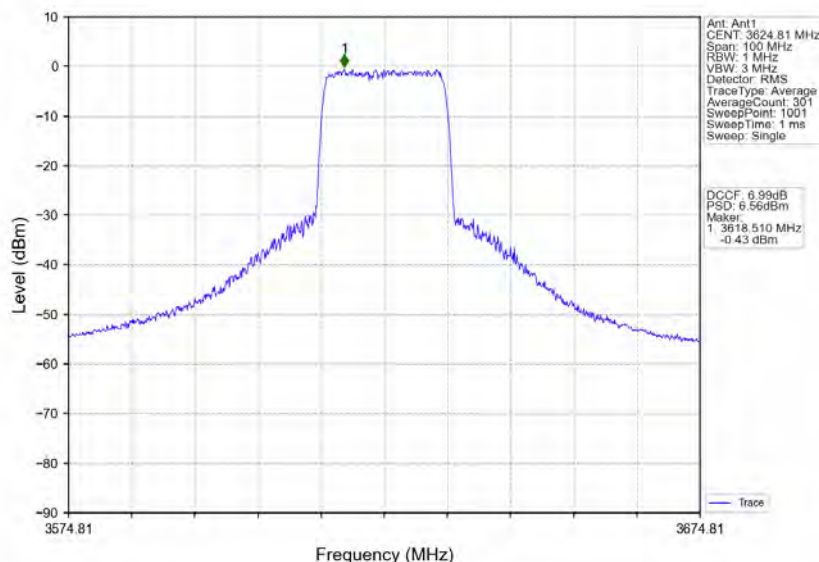
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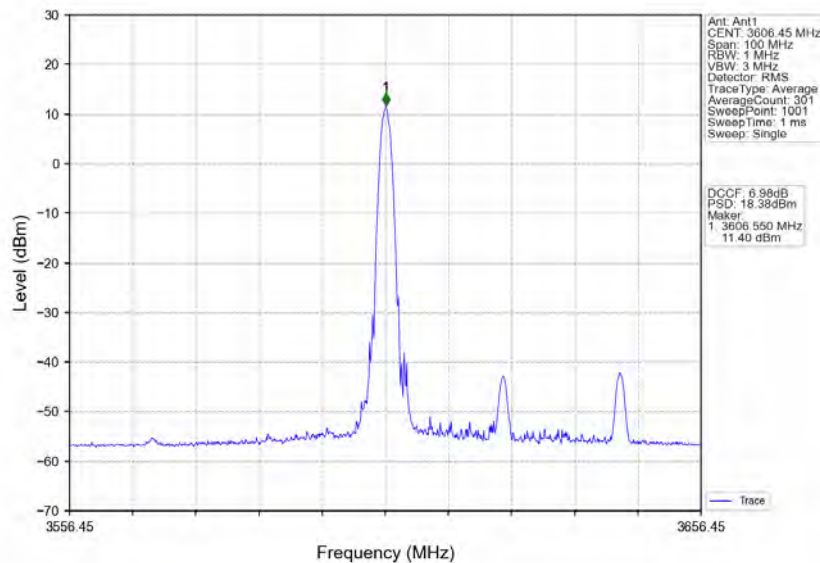
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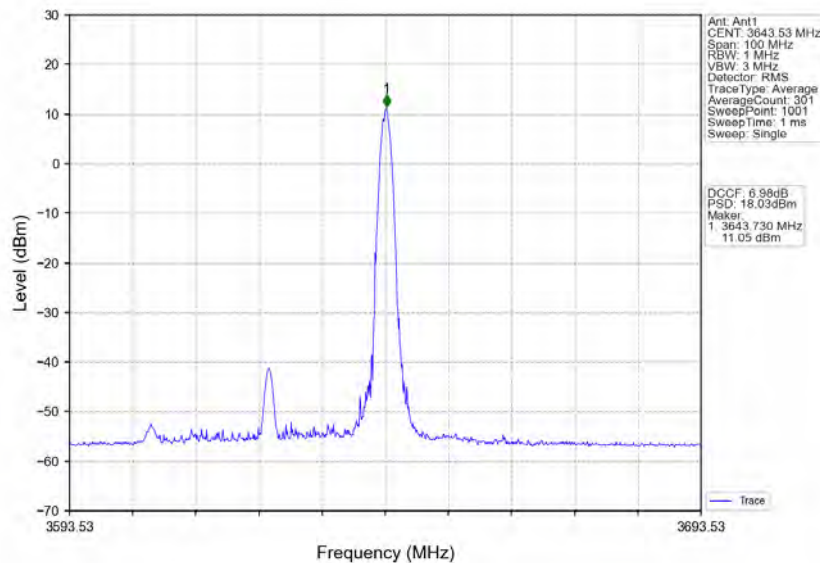
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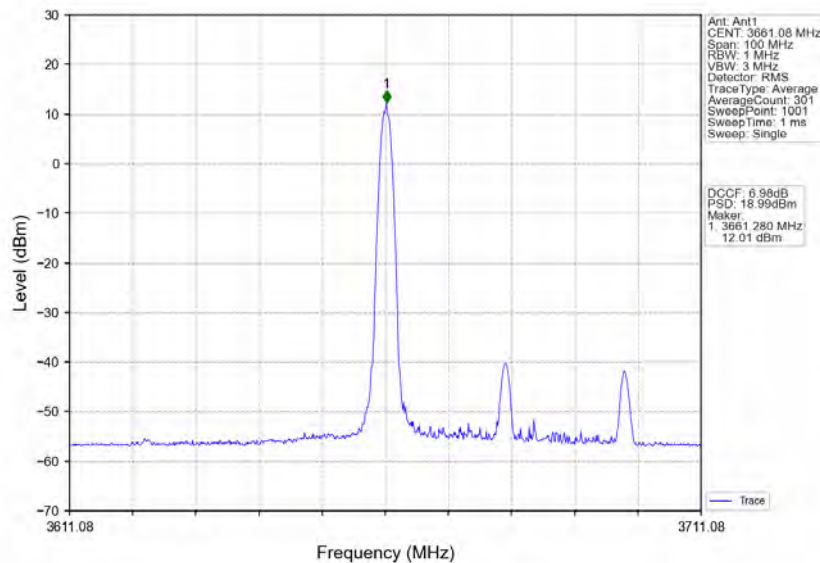
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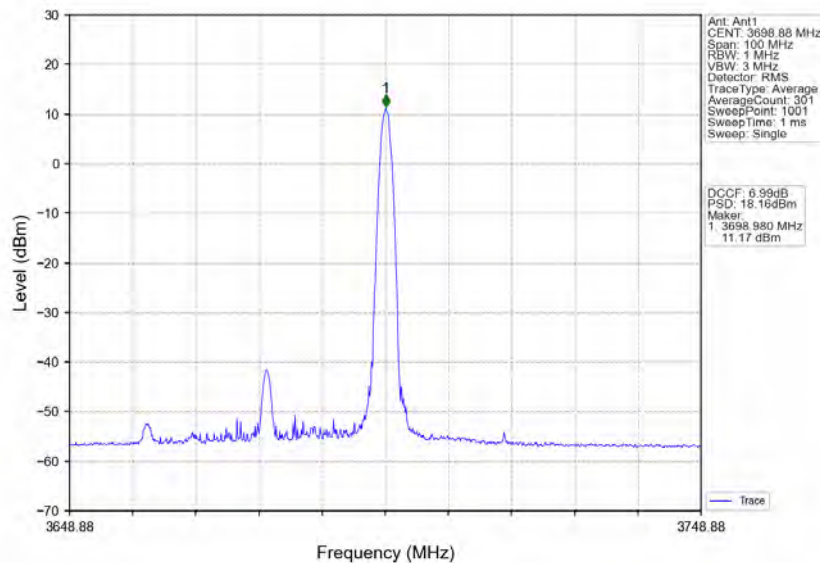
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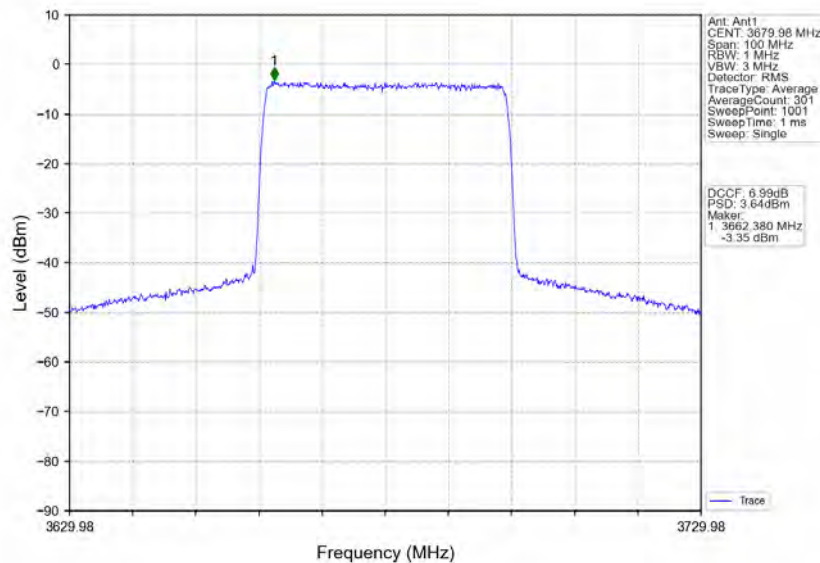
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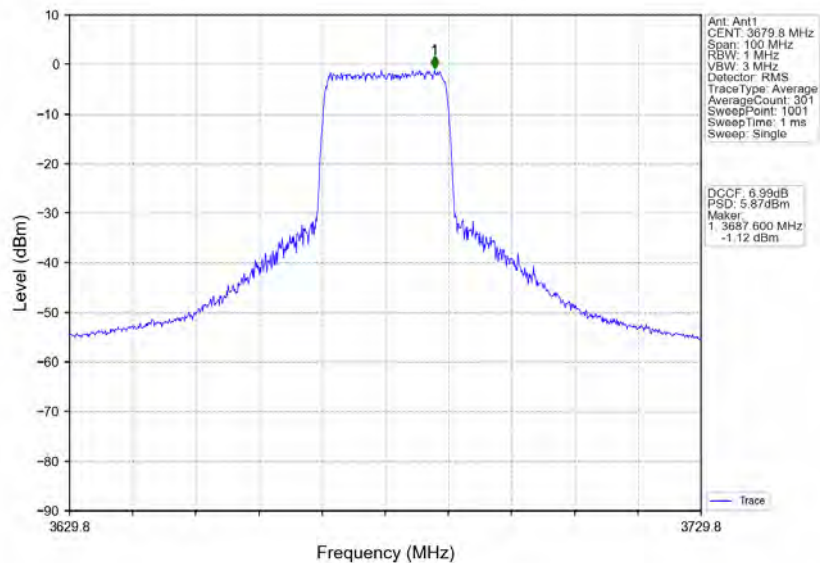
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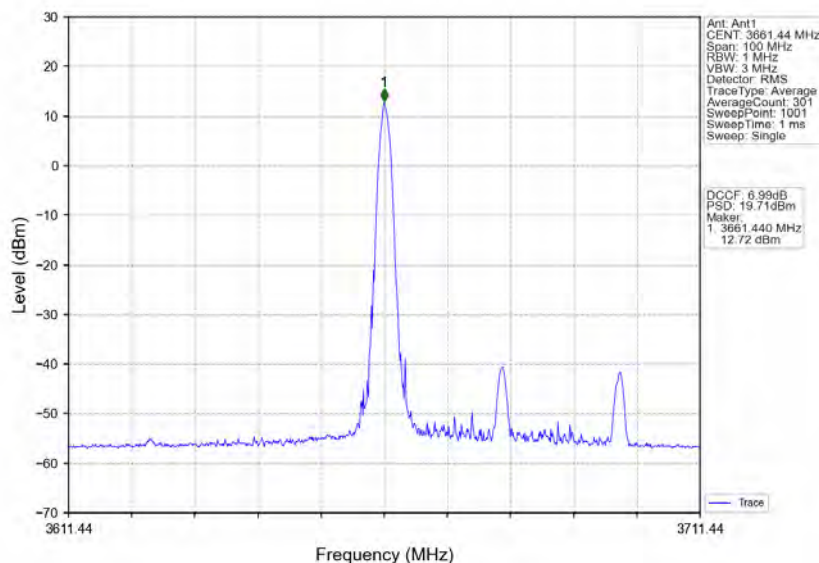
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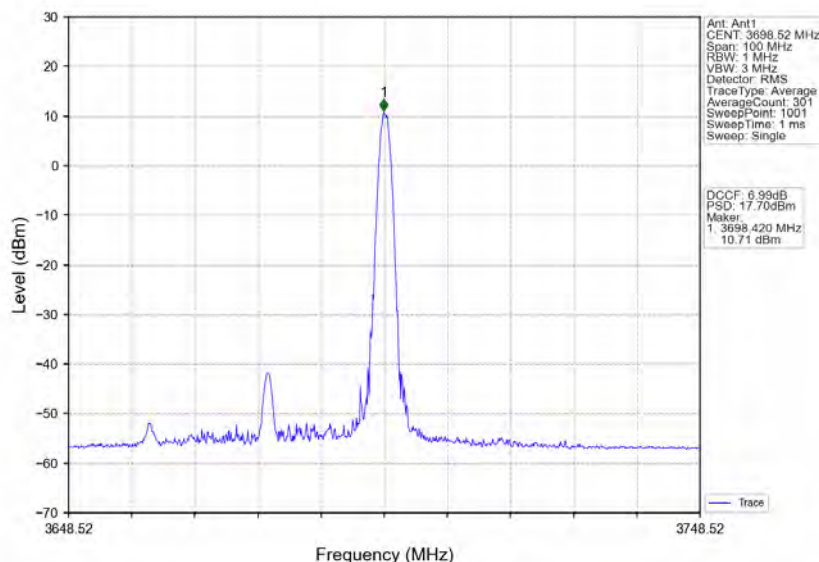
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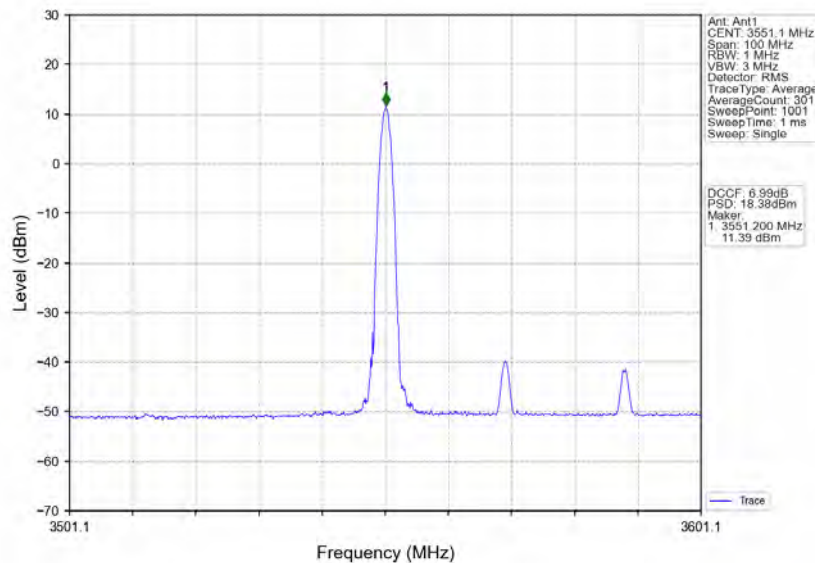
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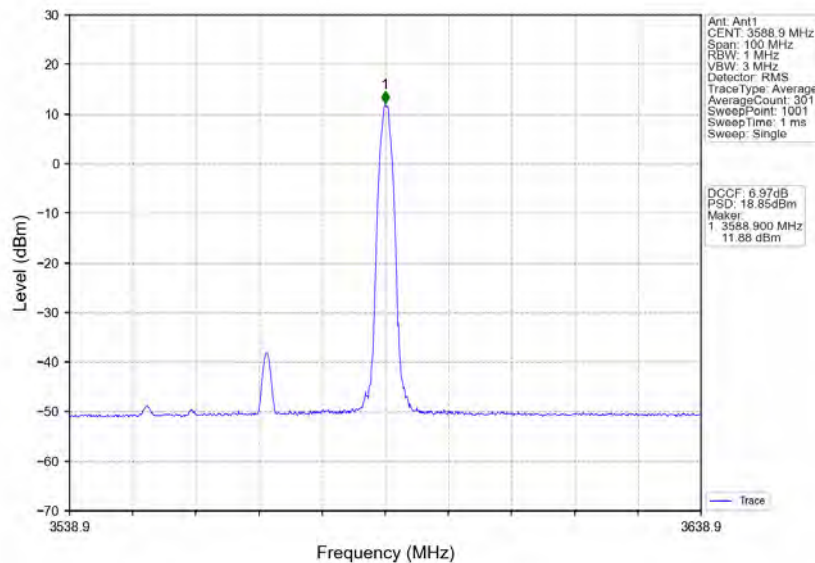
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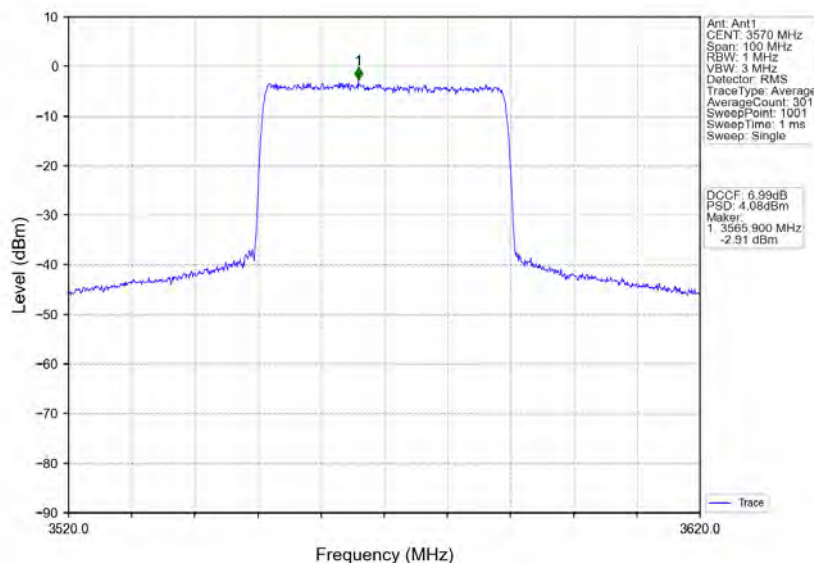
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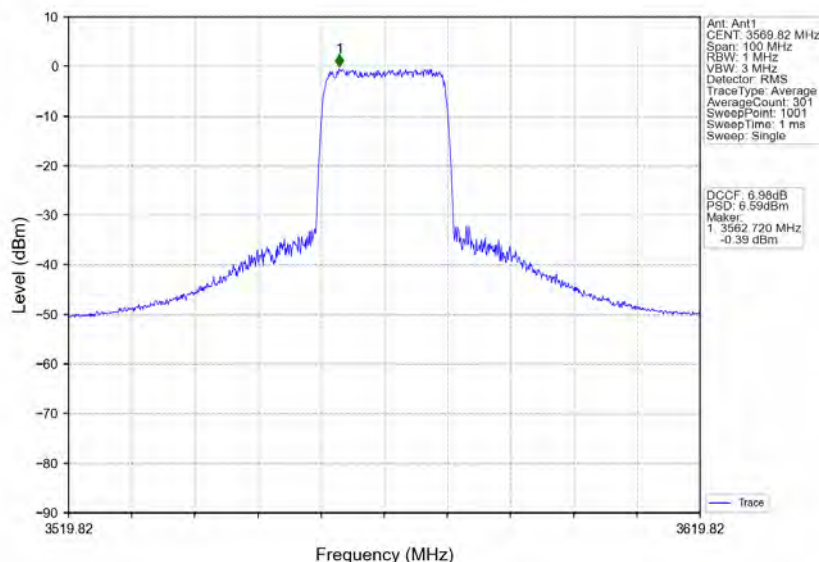
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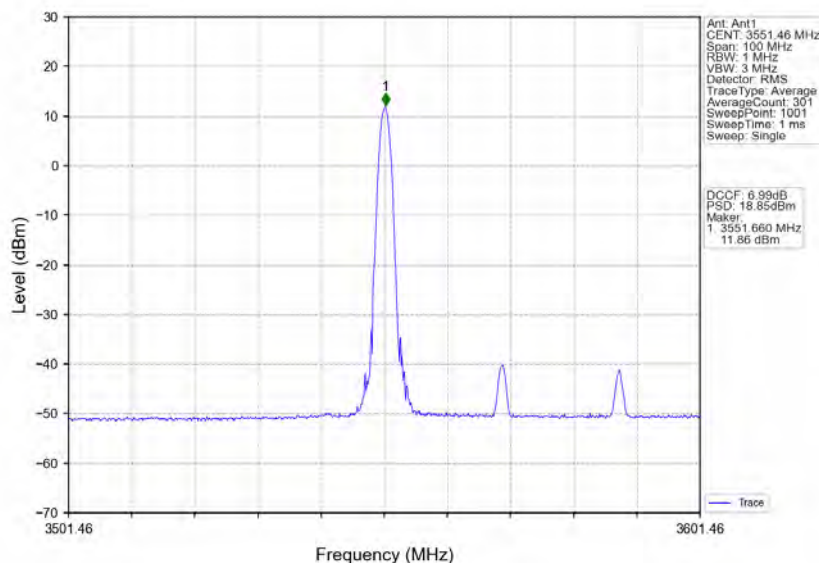
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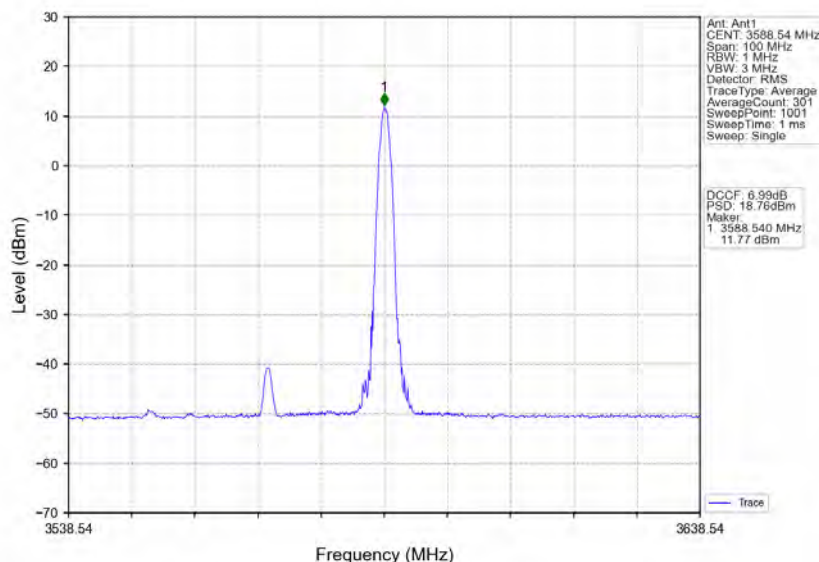
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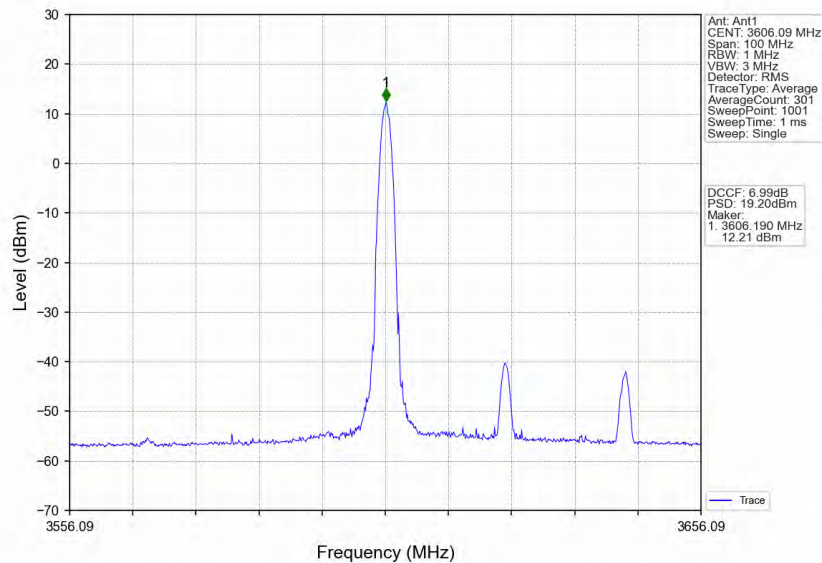
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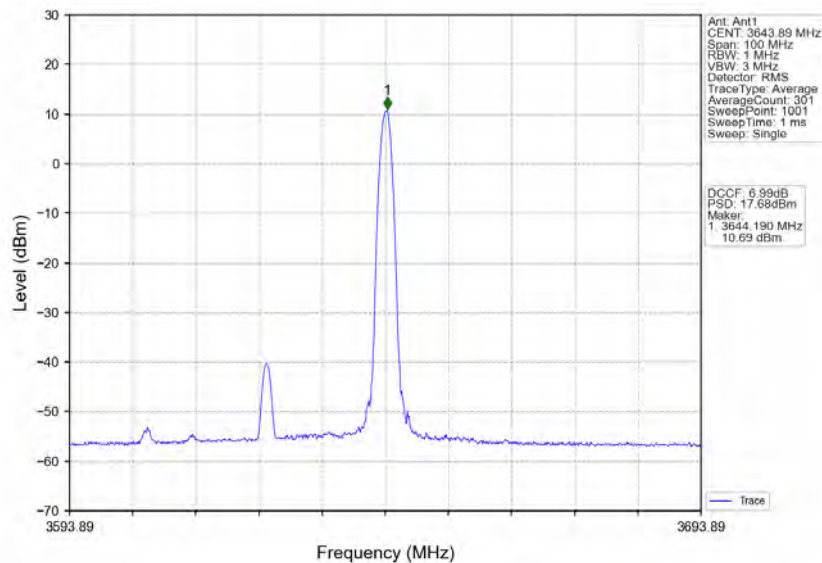
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_64_QAM_3624.99MHz_Edge_1RB_Left



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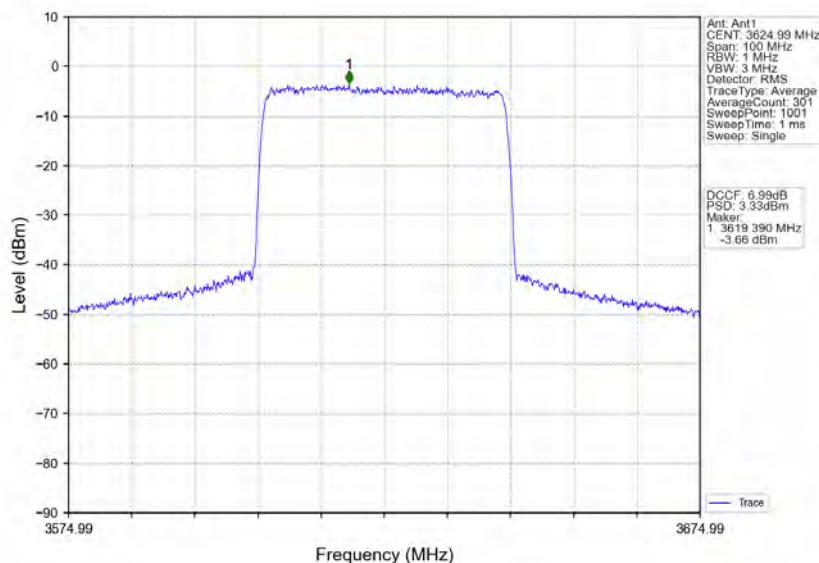
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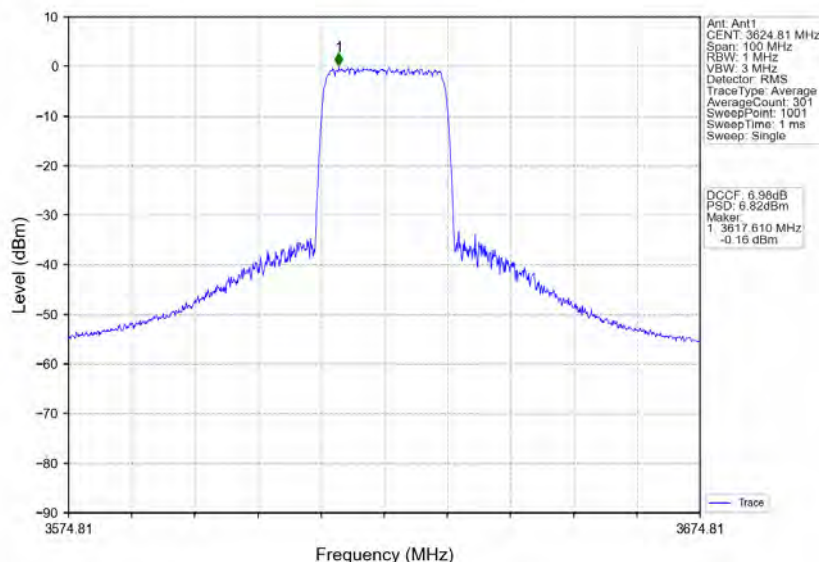
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM 3624.99MHz_Outer_Full



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM 3624.99MHz_Inner_Full



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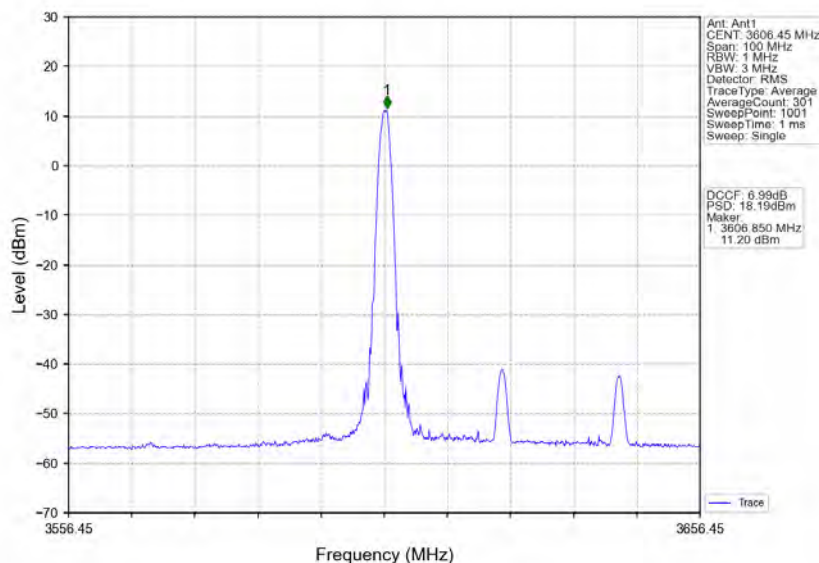
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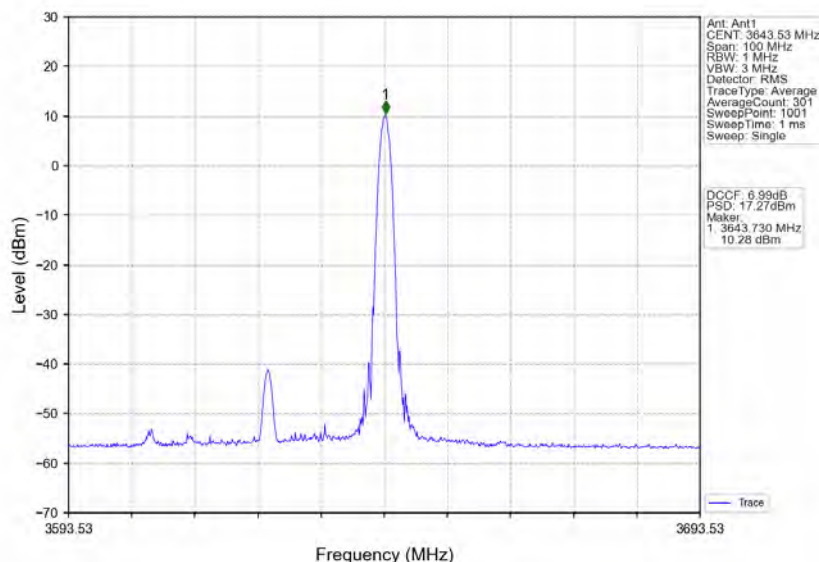
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM_3624.99MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM_3624.99MHz_Inner_1RB_Right



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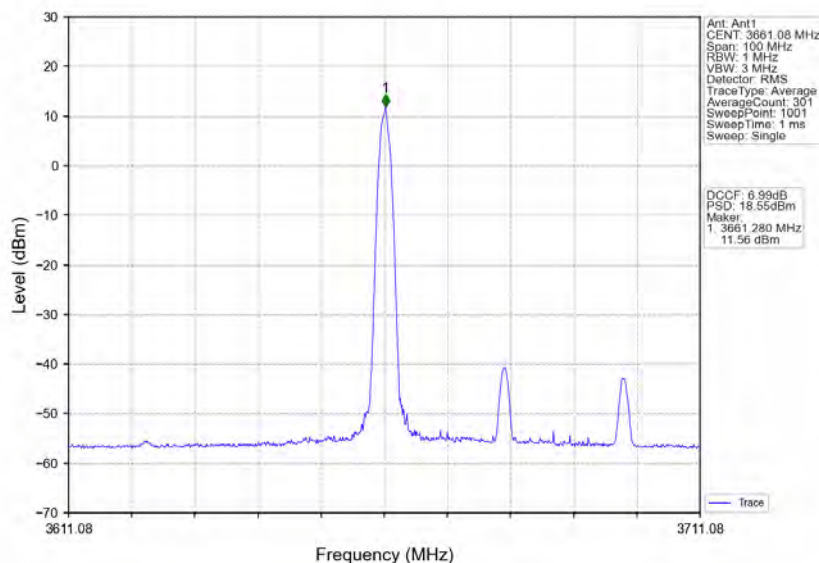
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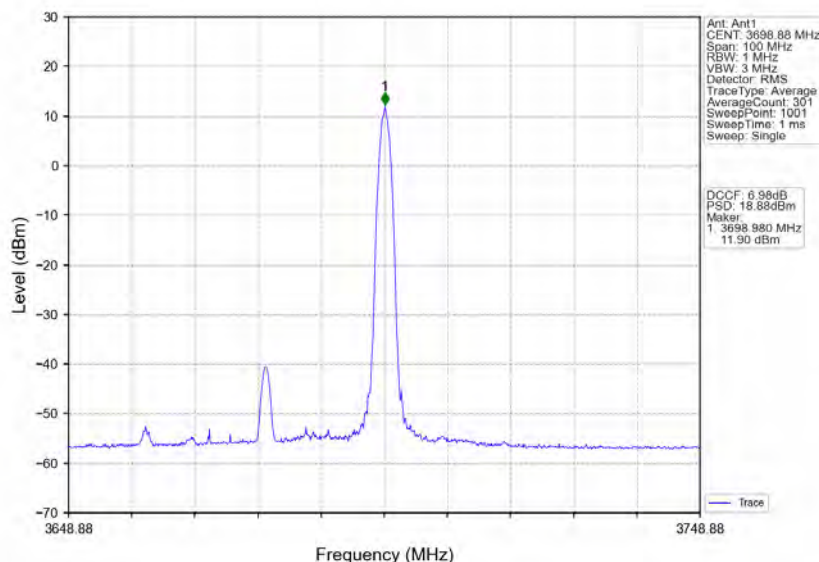
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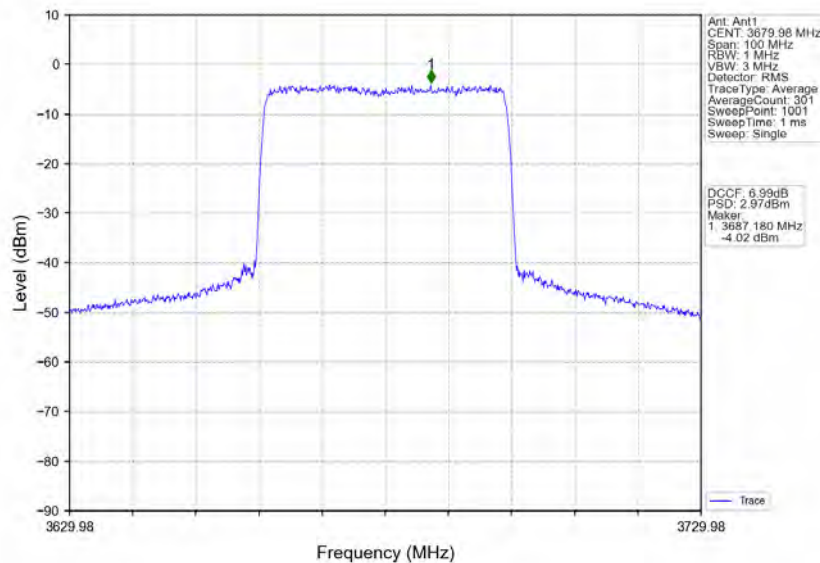
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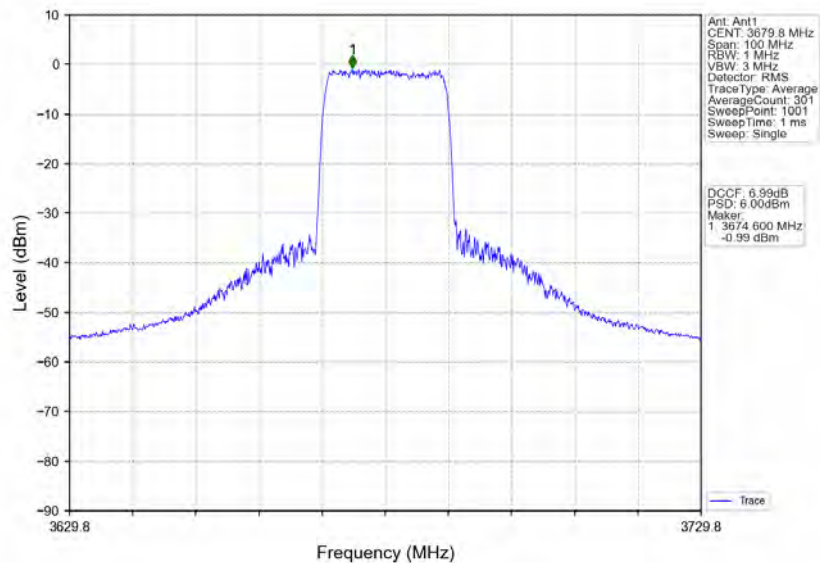
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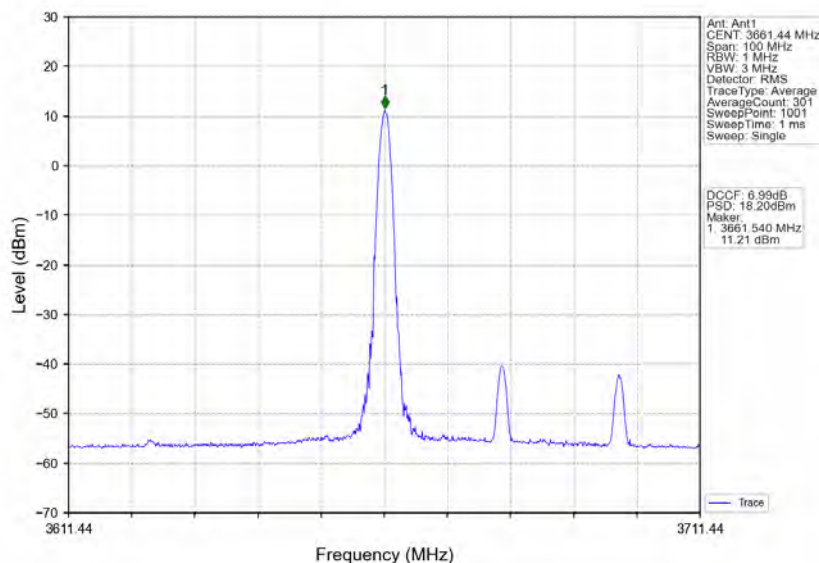
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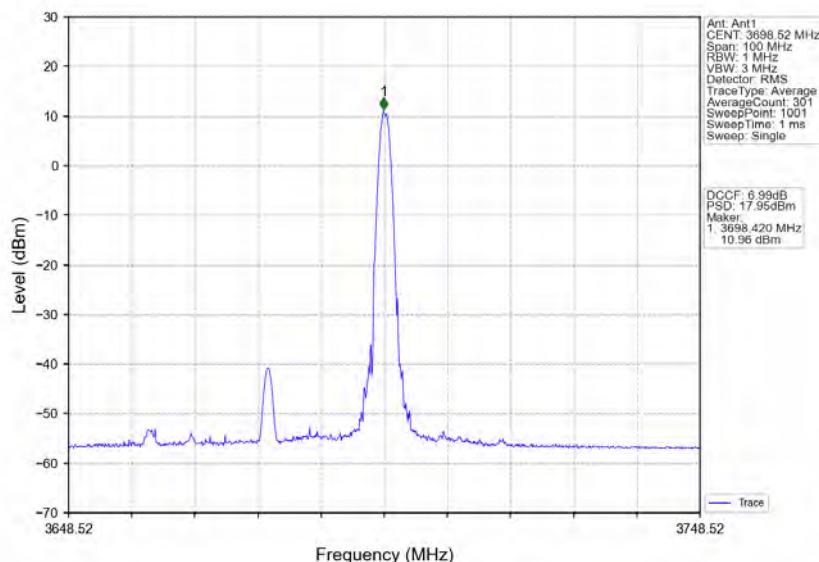
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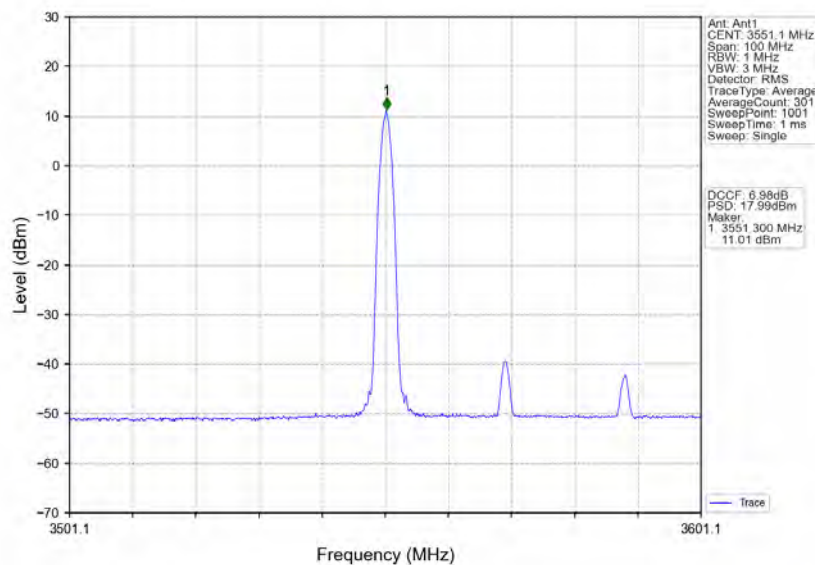
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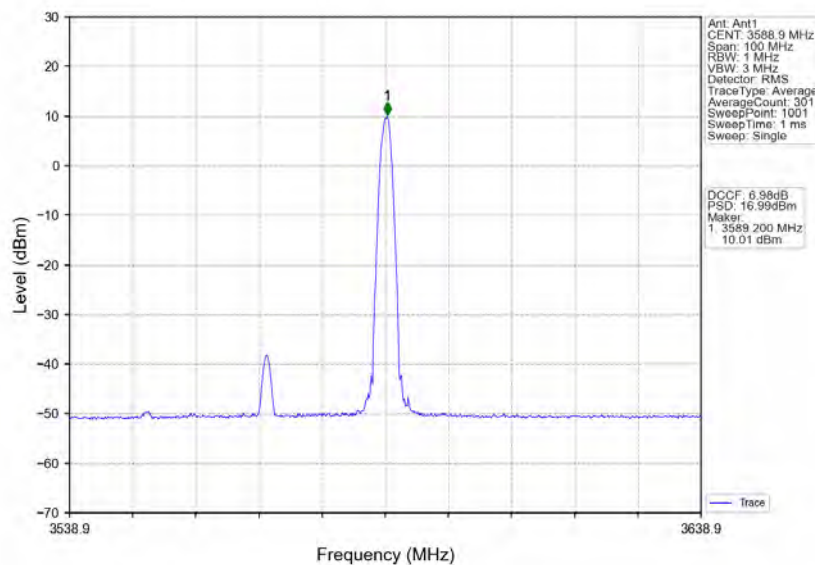
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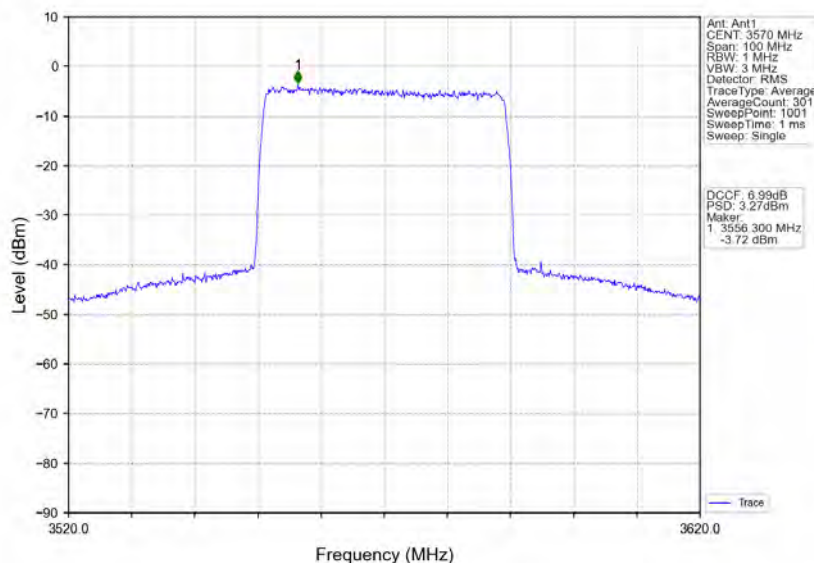
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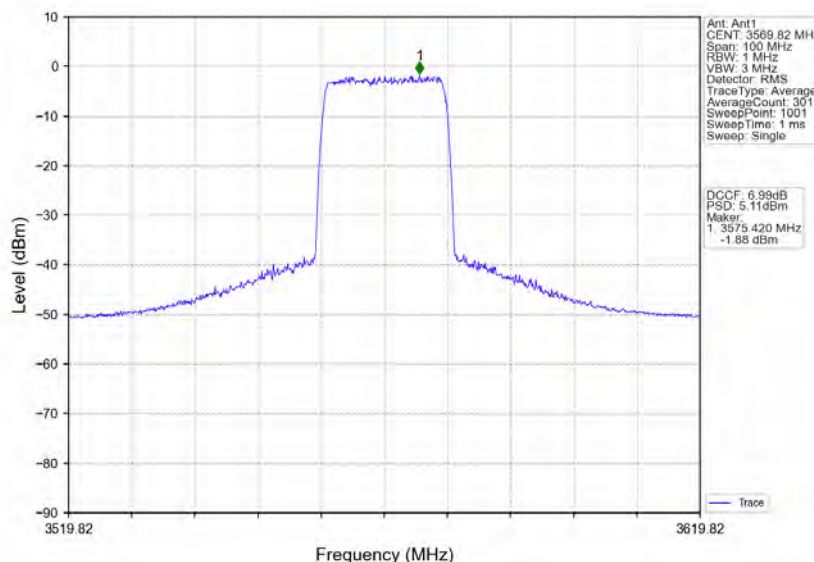
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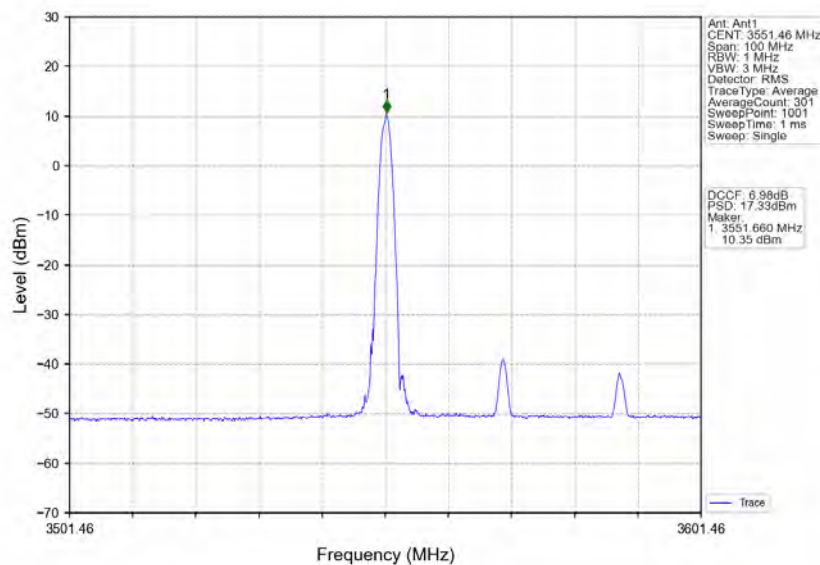
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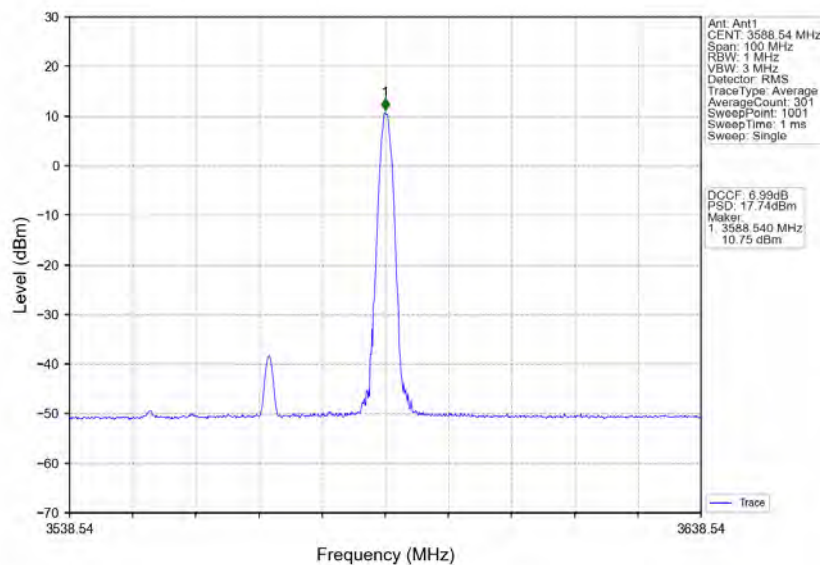
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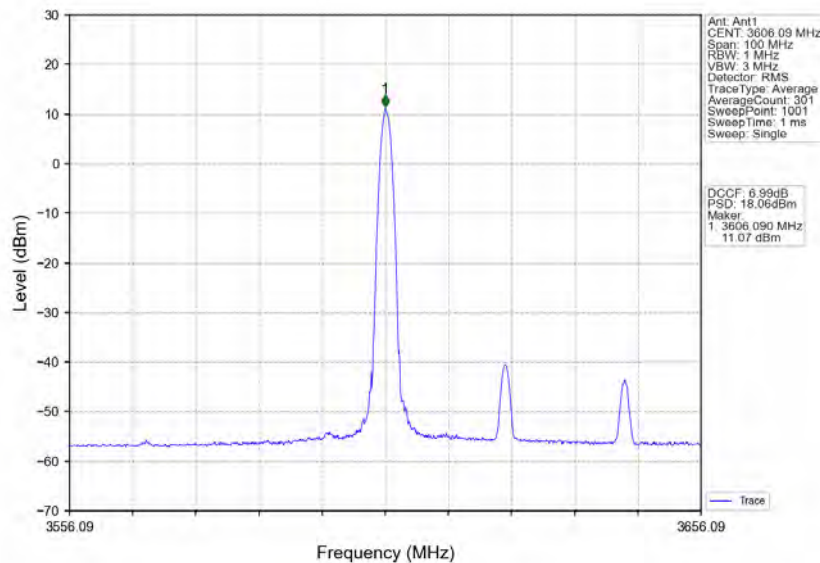
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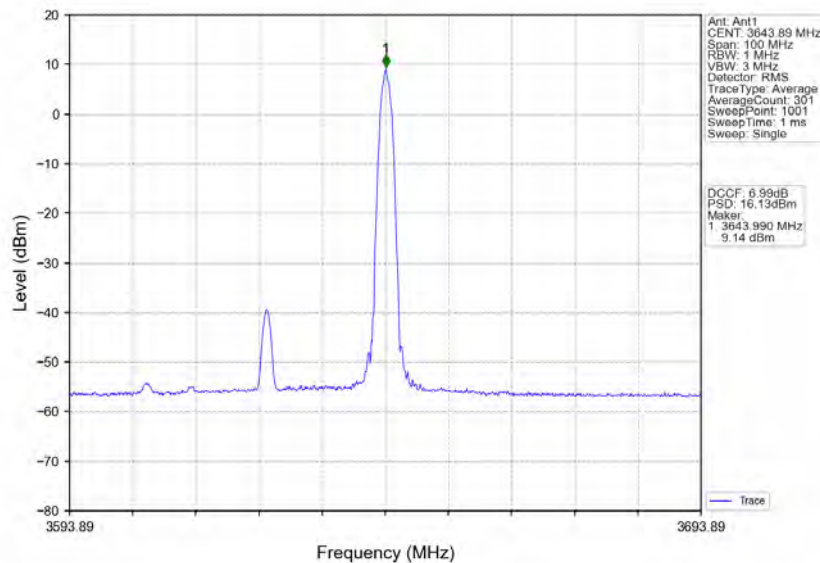
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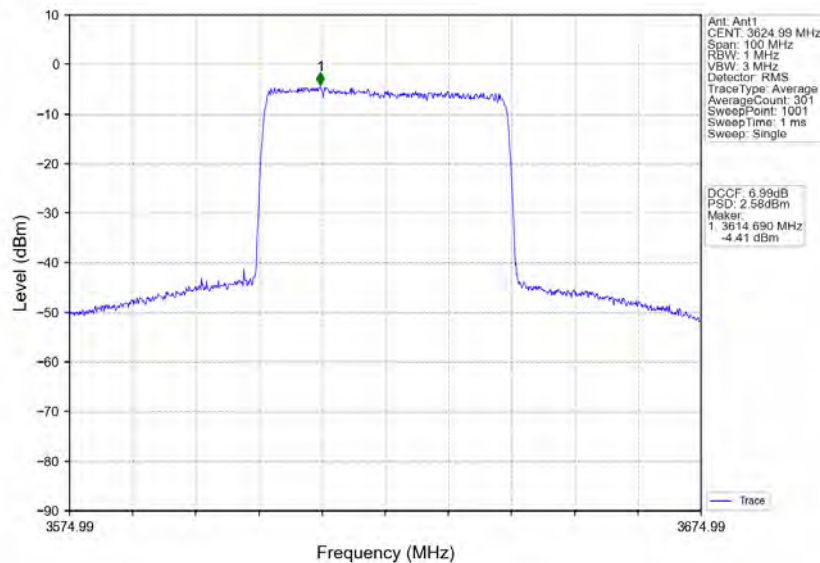
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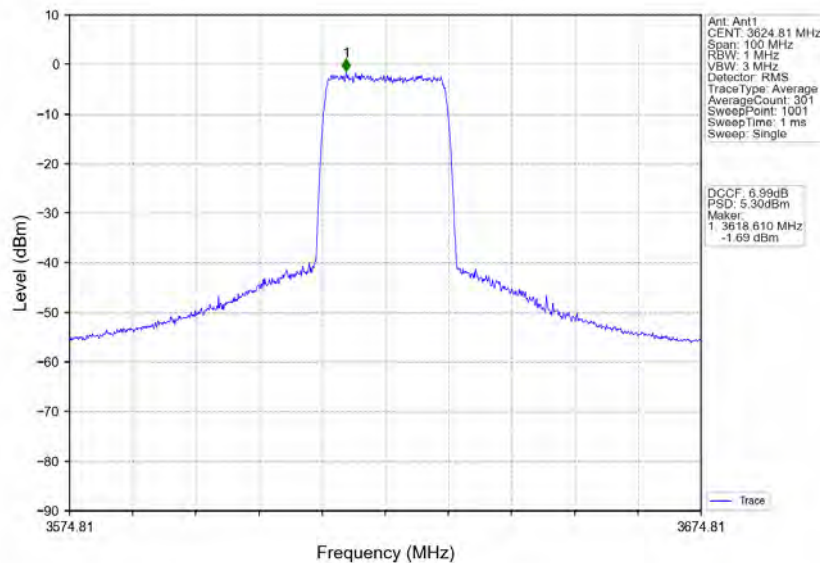
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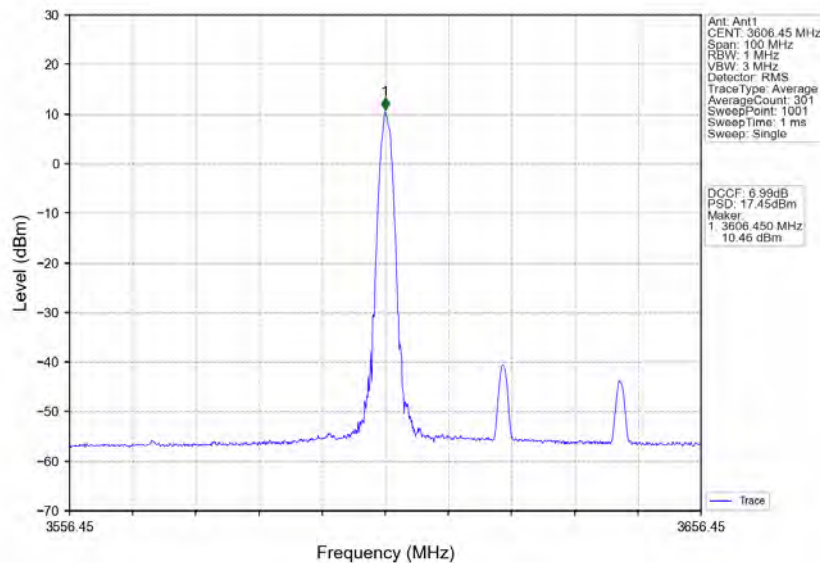
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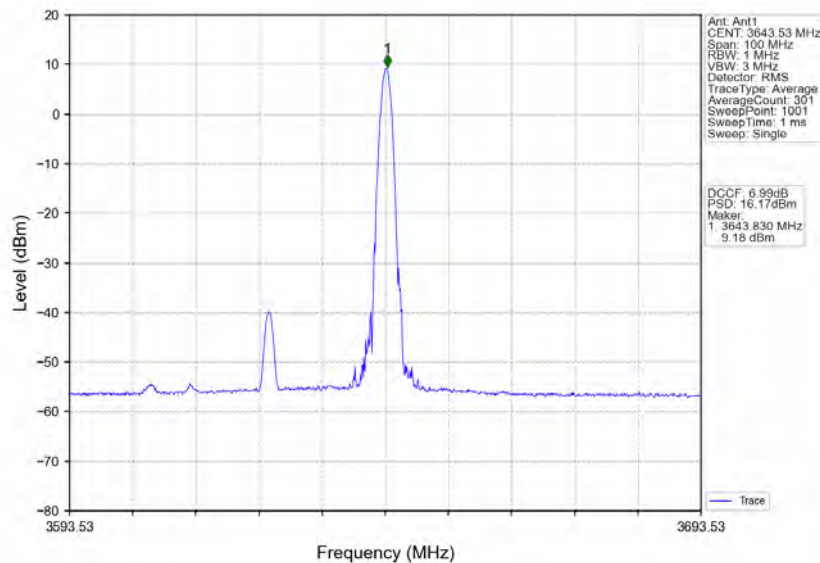
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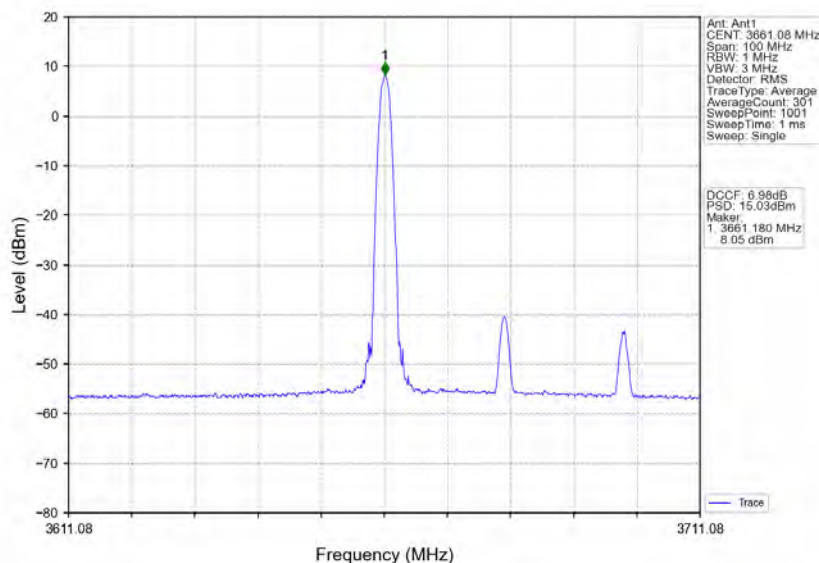
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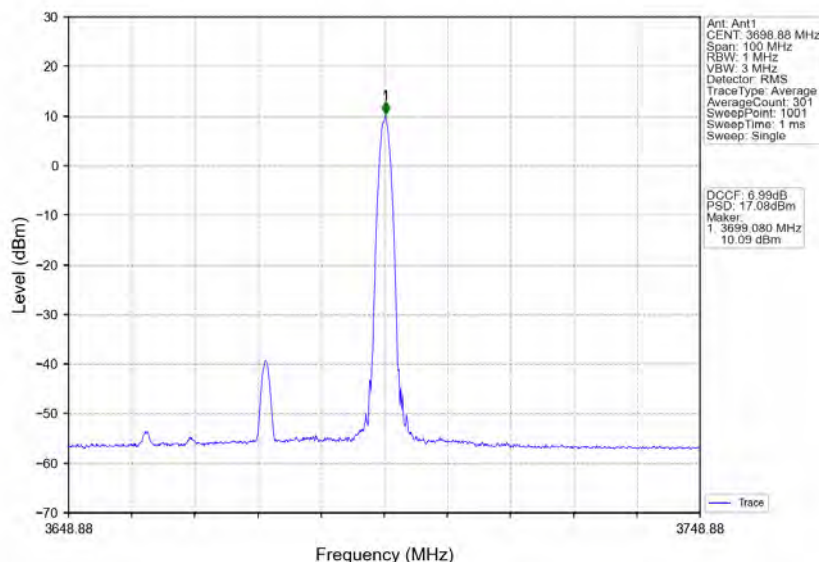
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Edge_1RB_Right



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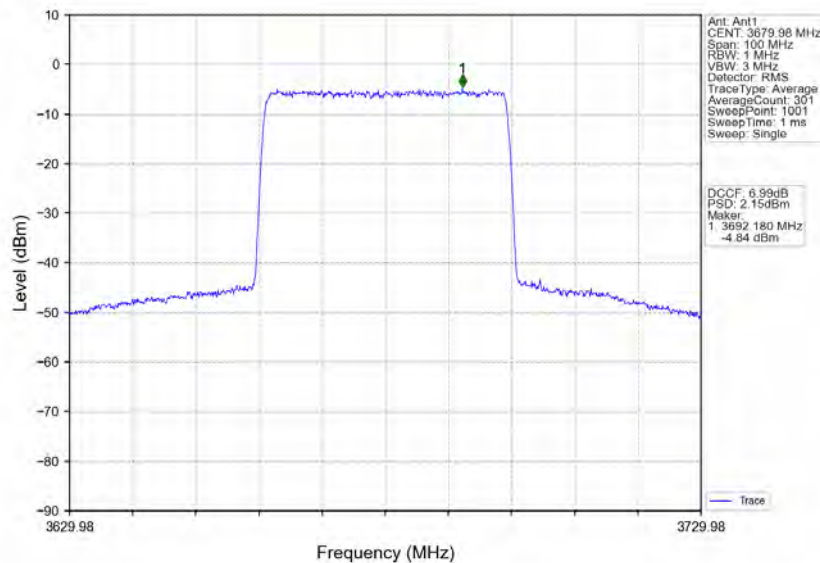
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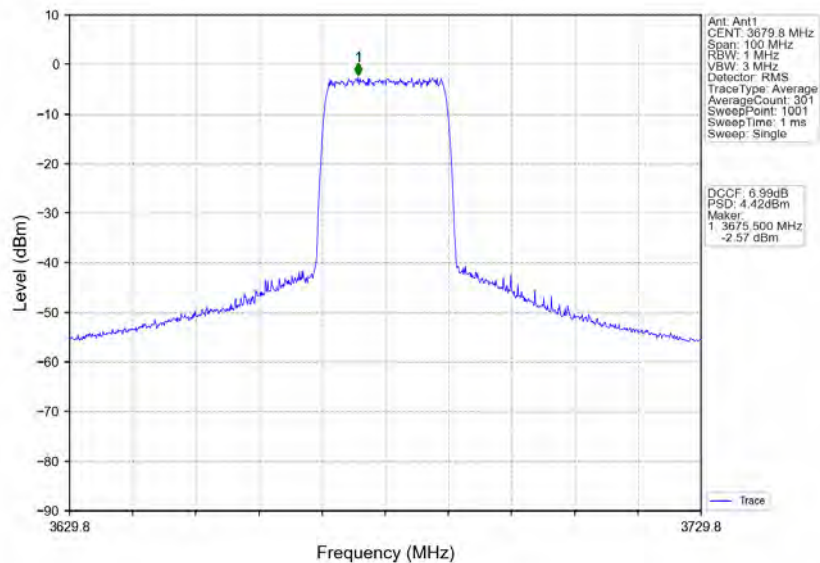
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_Full



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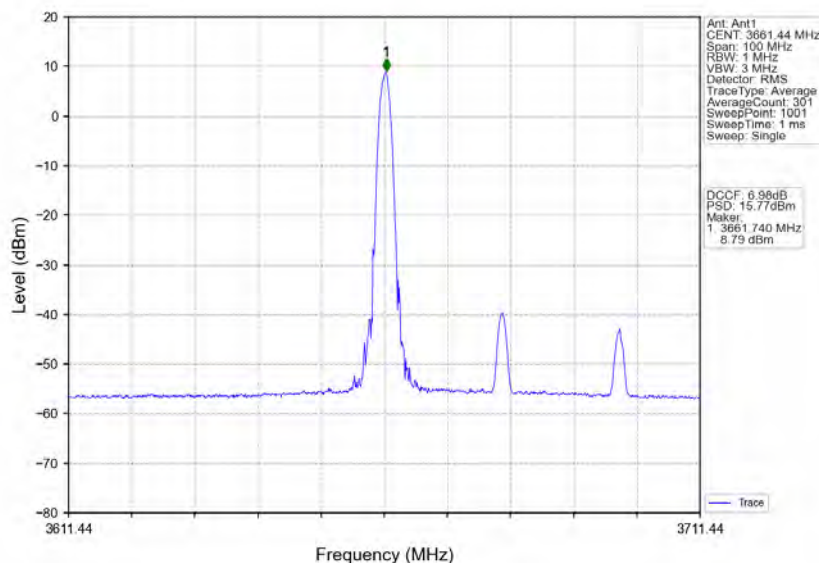
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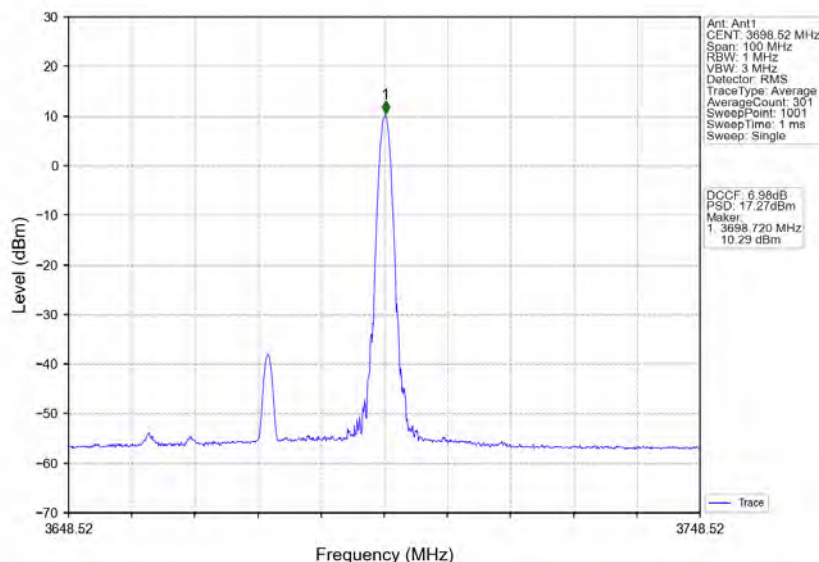
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_1RB_Left



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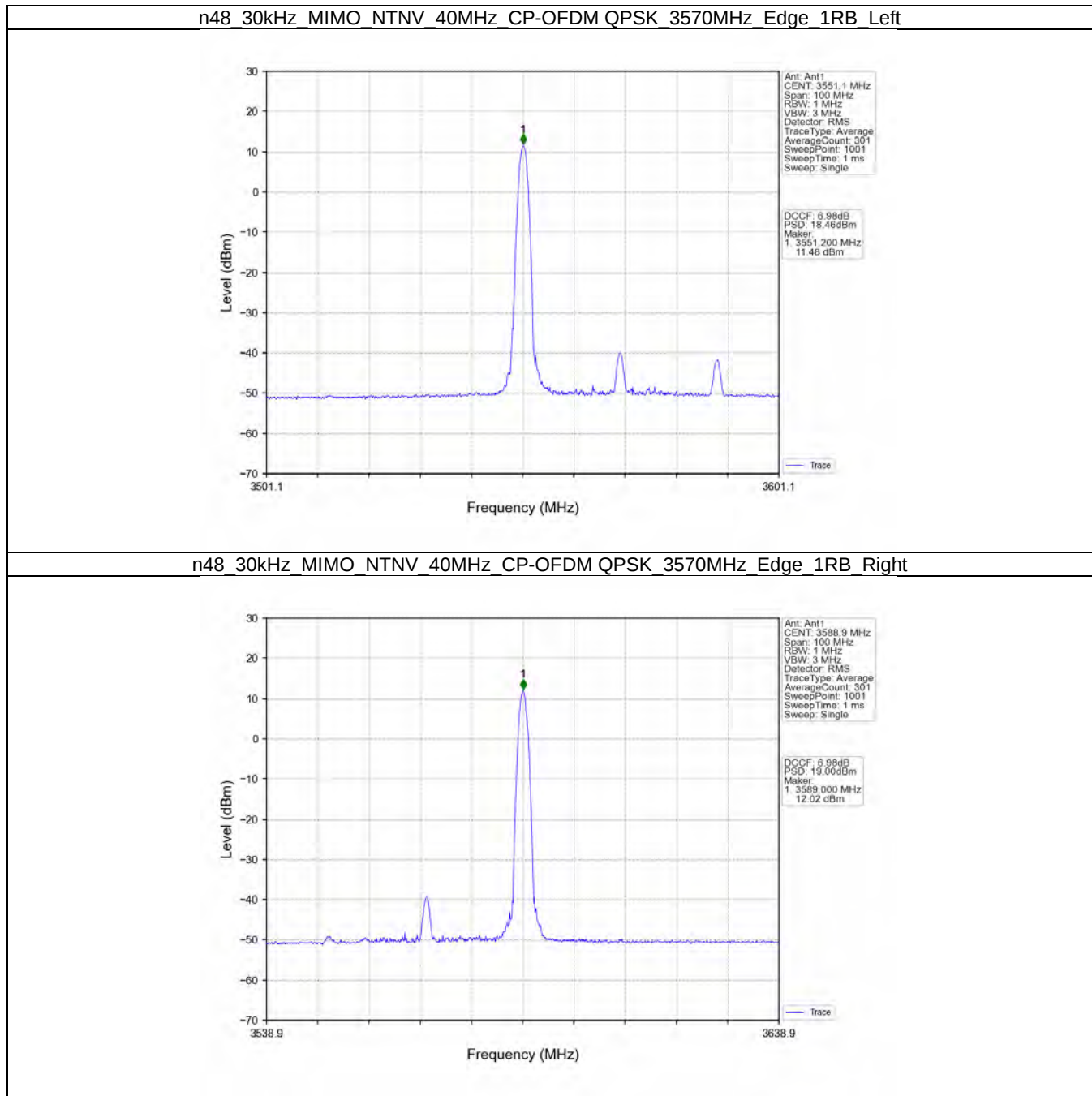
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2.9.3 Test Graph for ANT2



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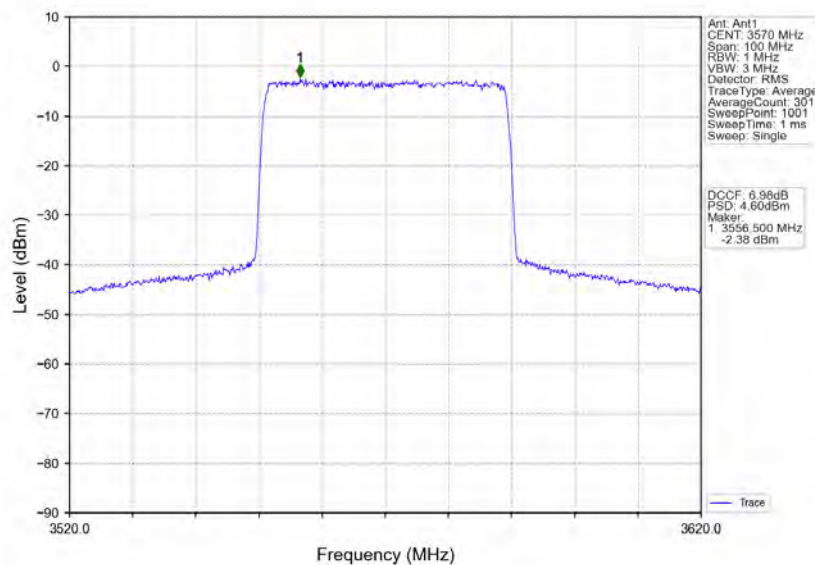
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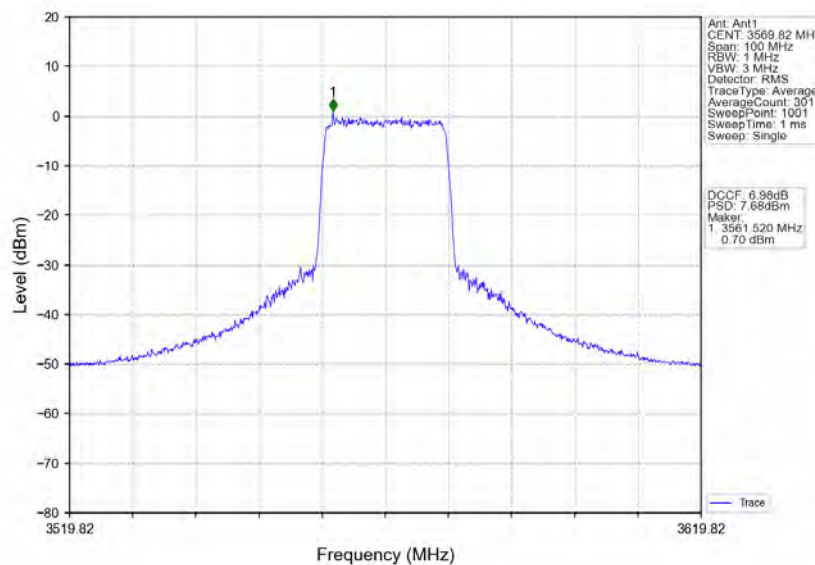
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full



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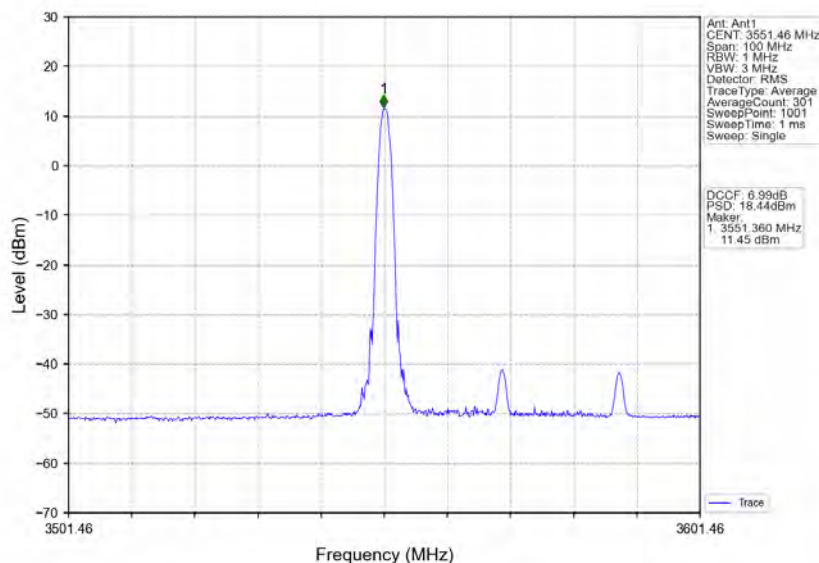
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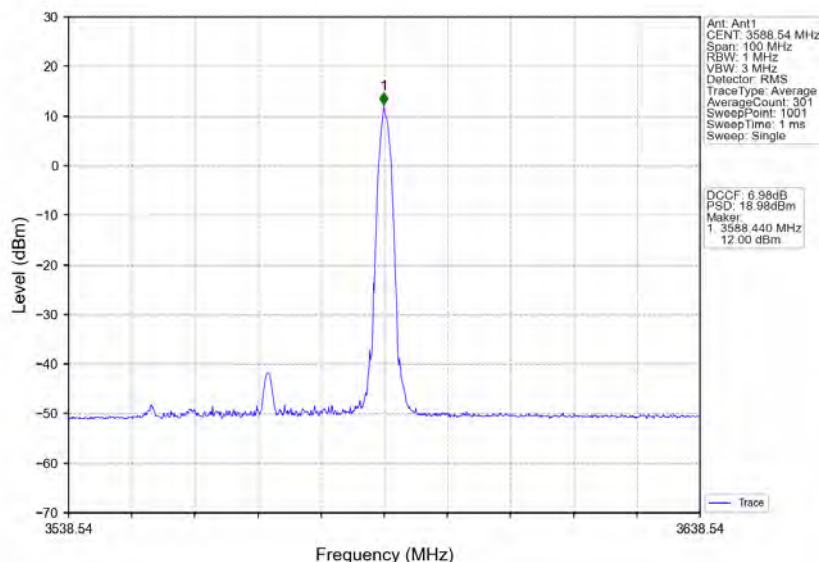
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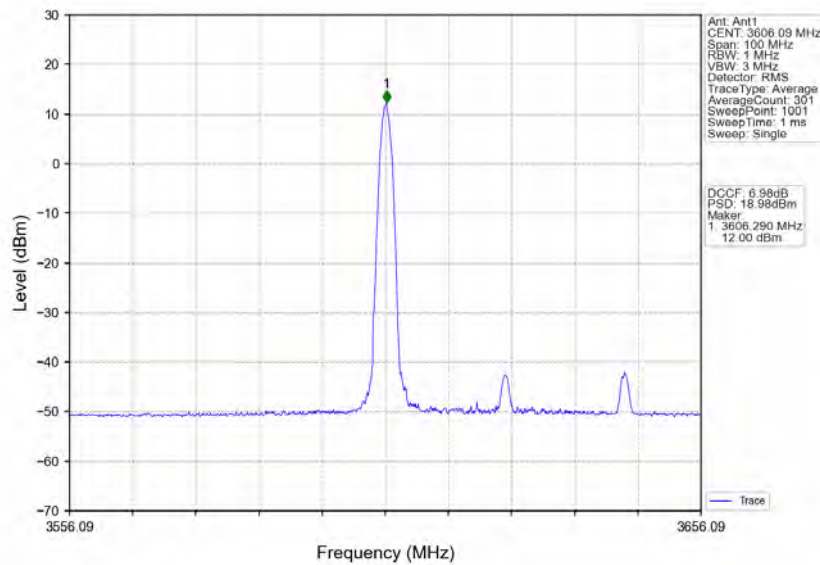
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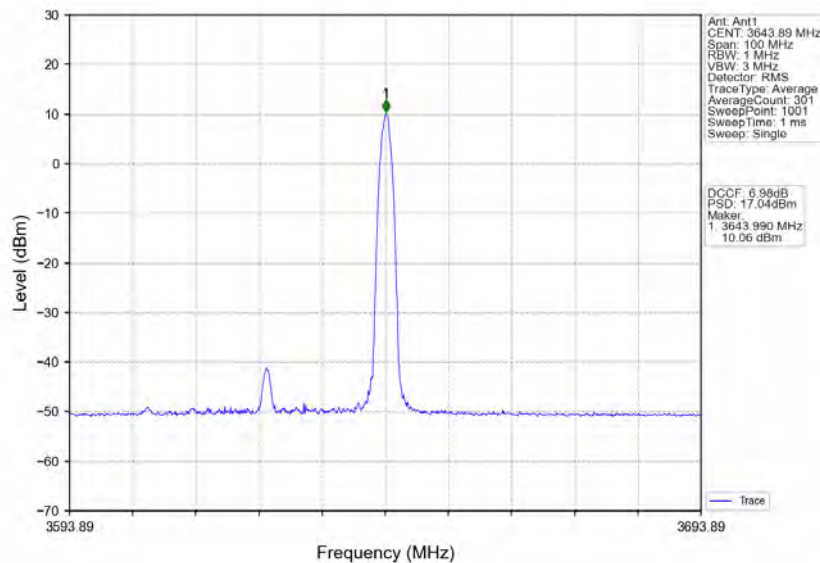
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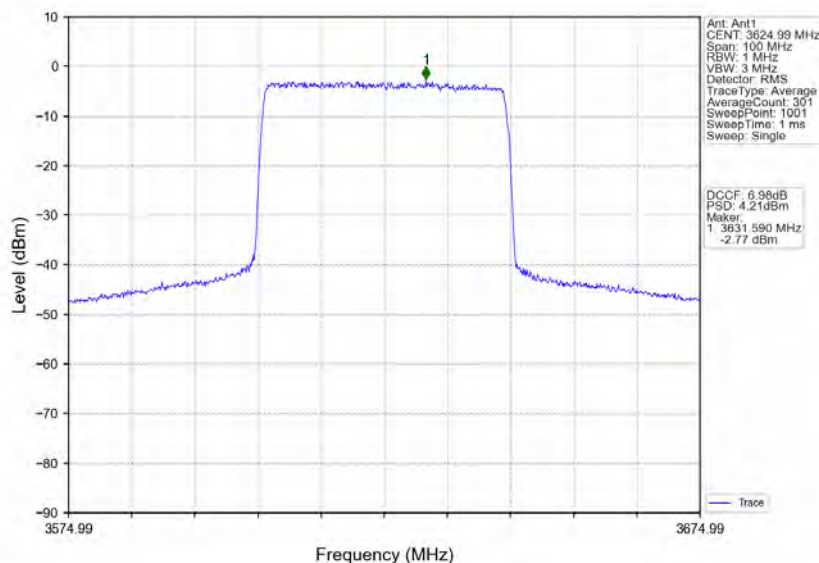
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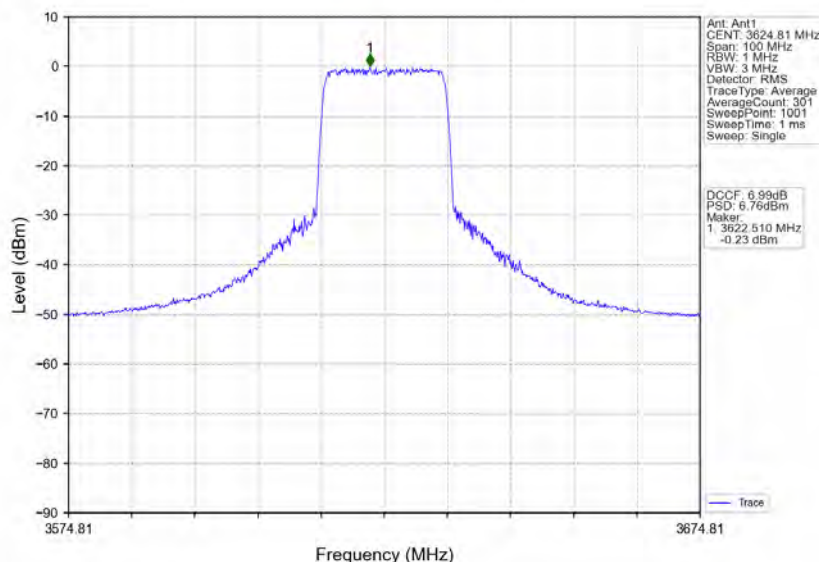
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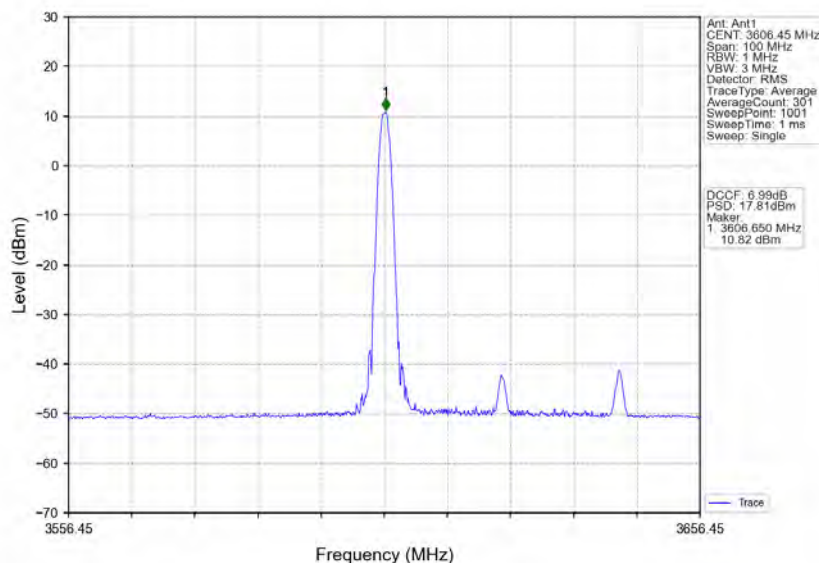
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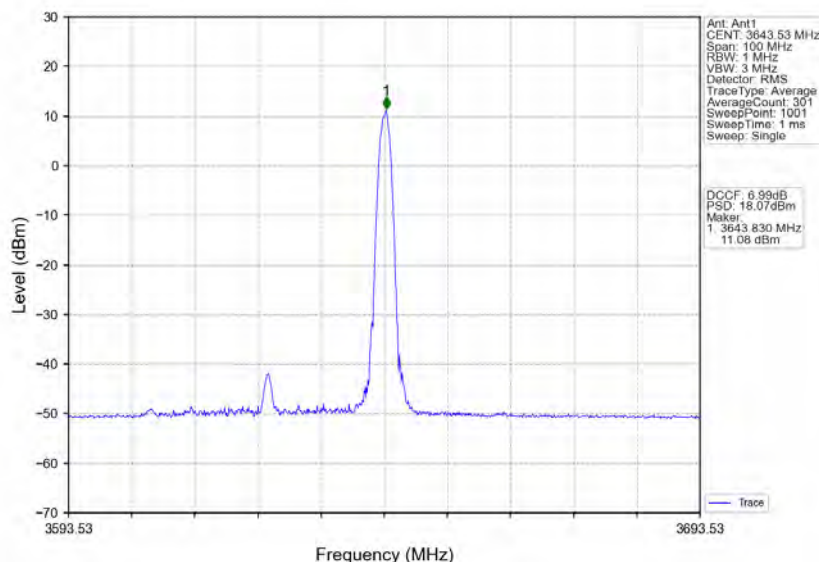
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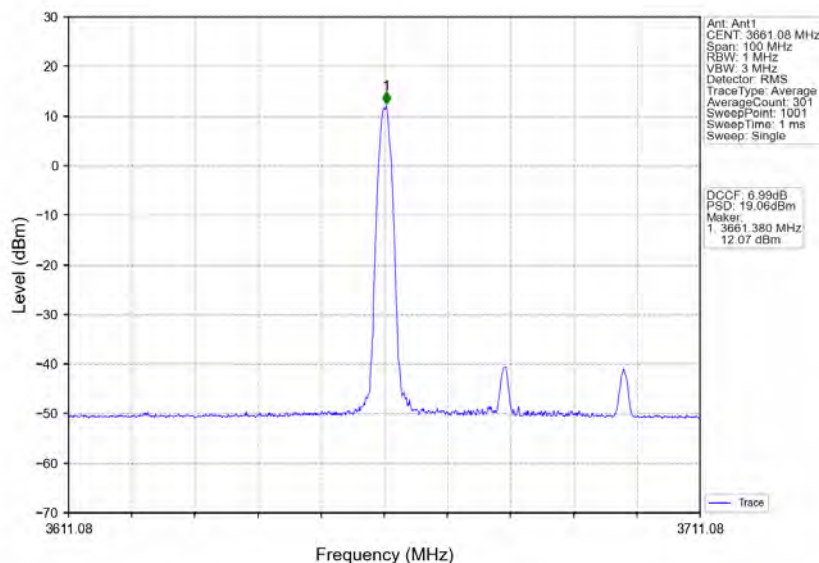
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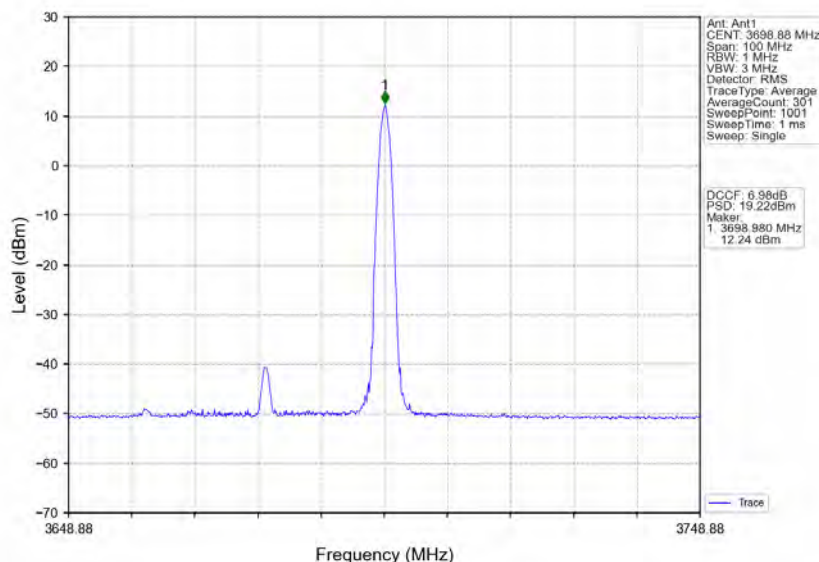
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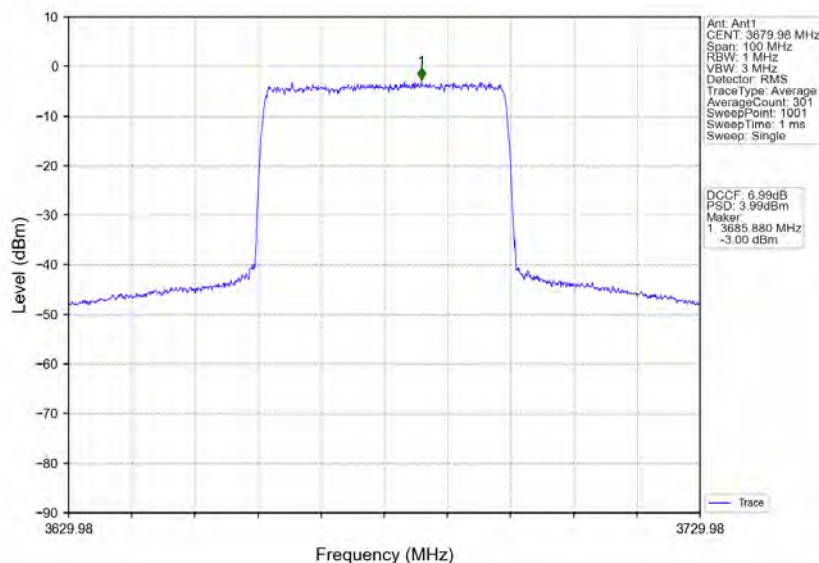
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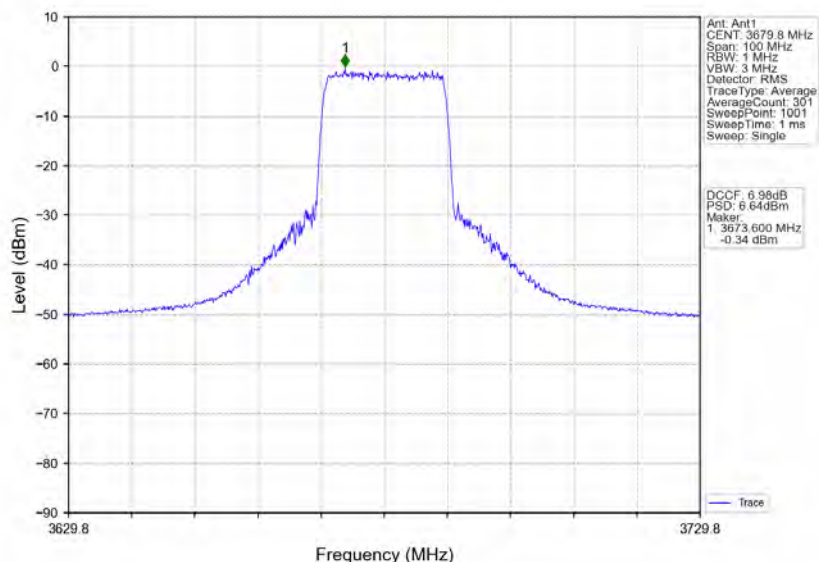
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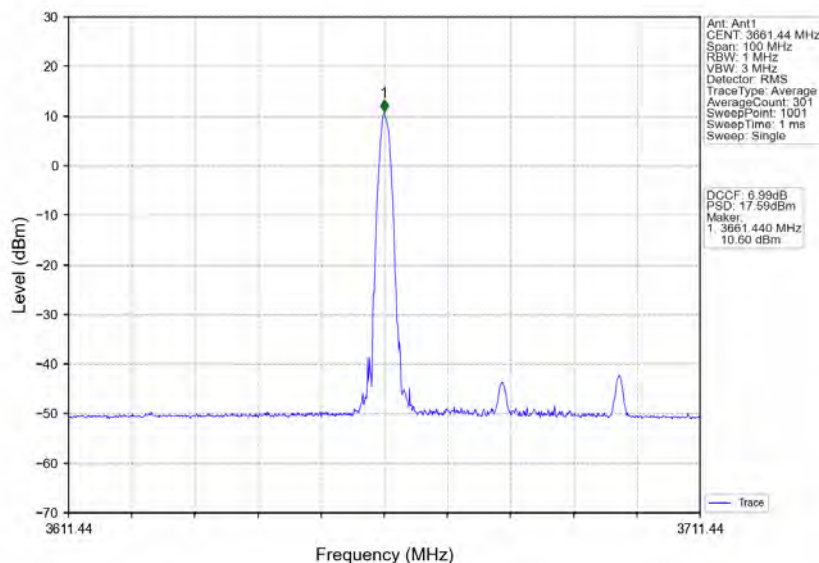
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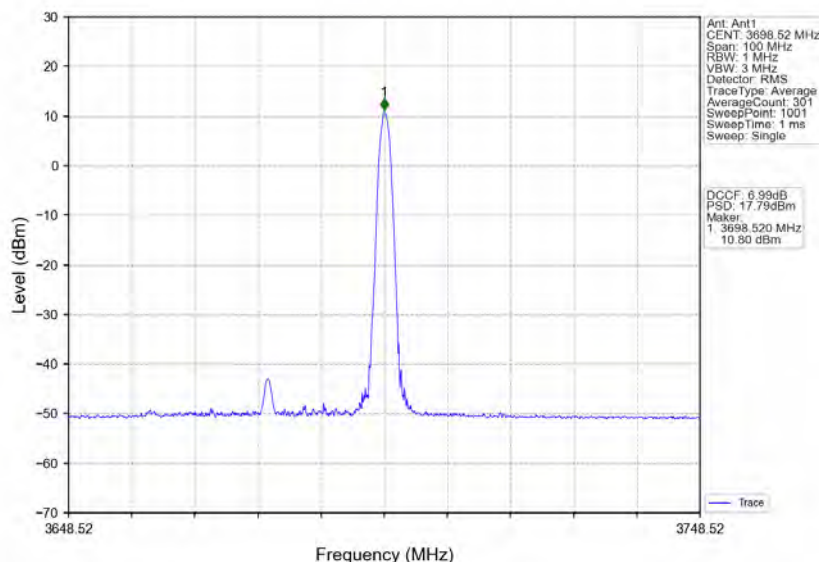
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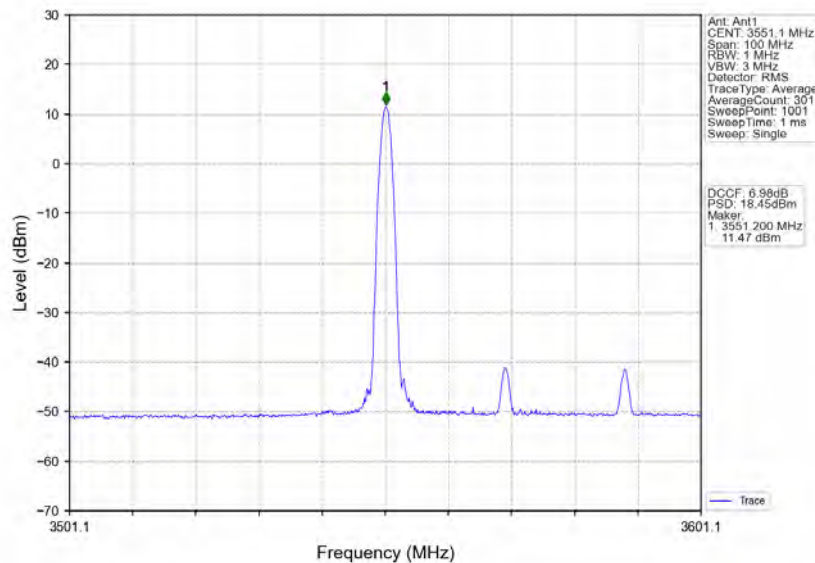
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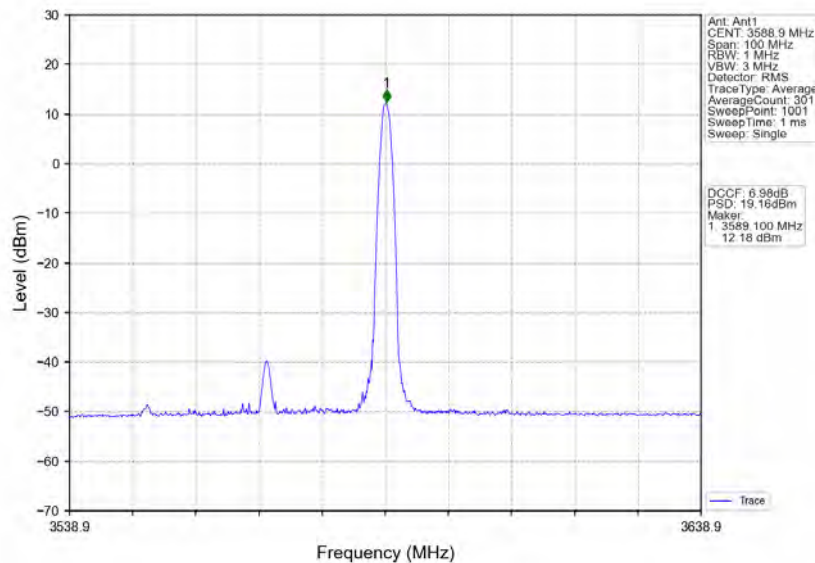
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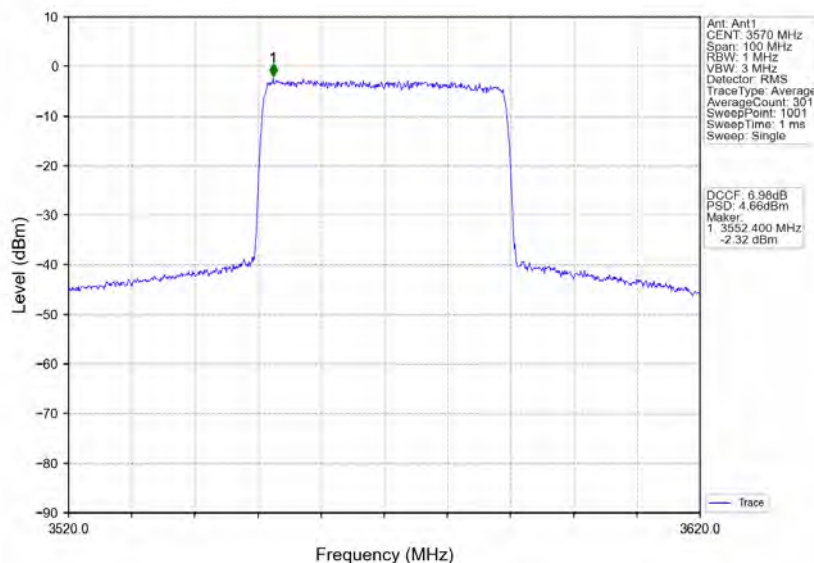
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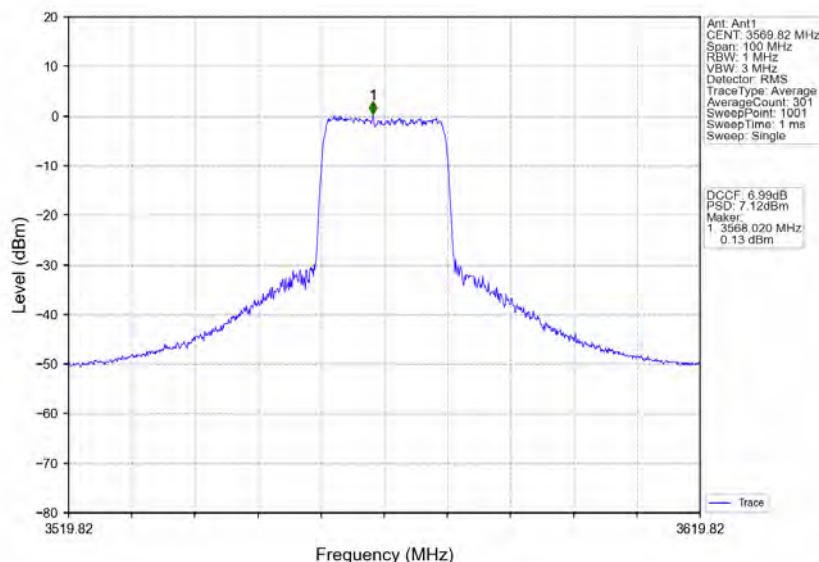
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_16_QAM_3570MHz_Outer_Full



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_16_QAM_3570MHz_Inner_Full



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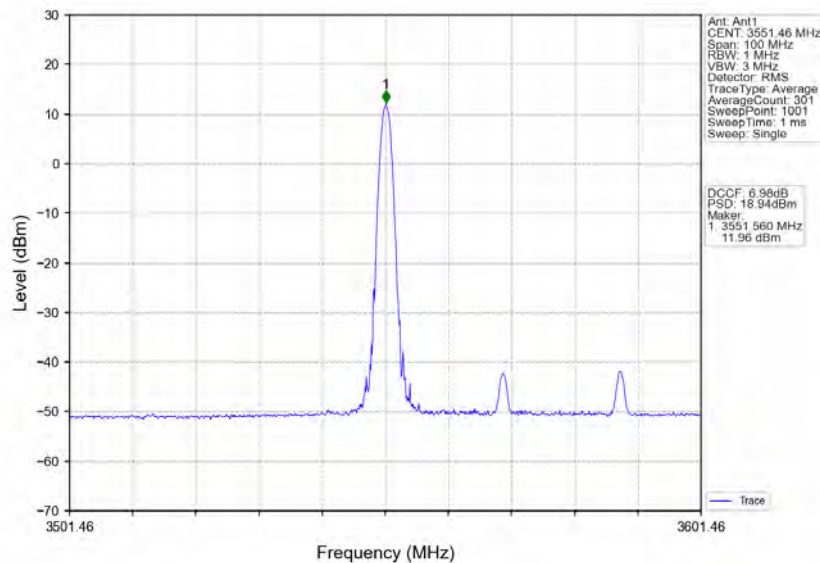
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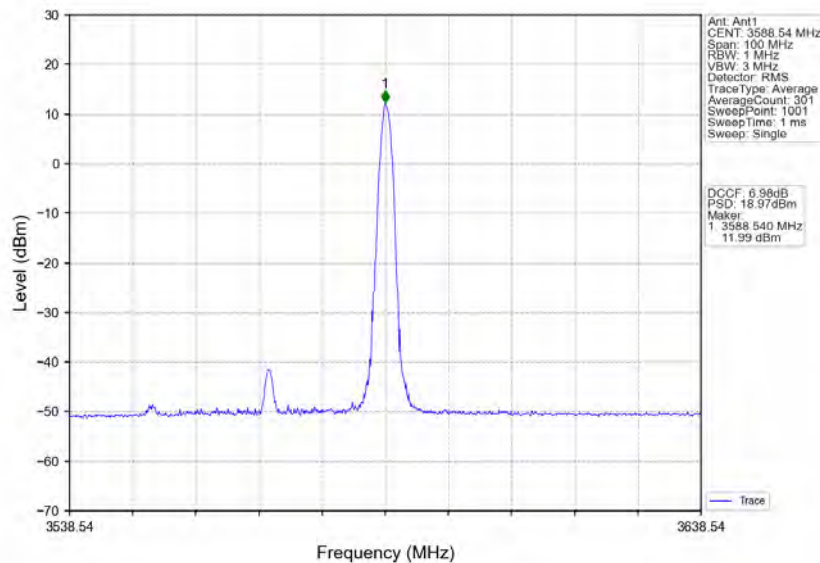
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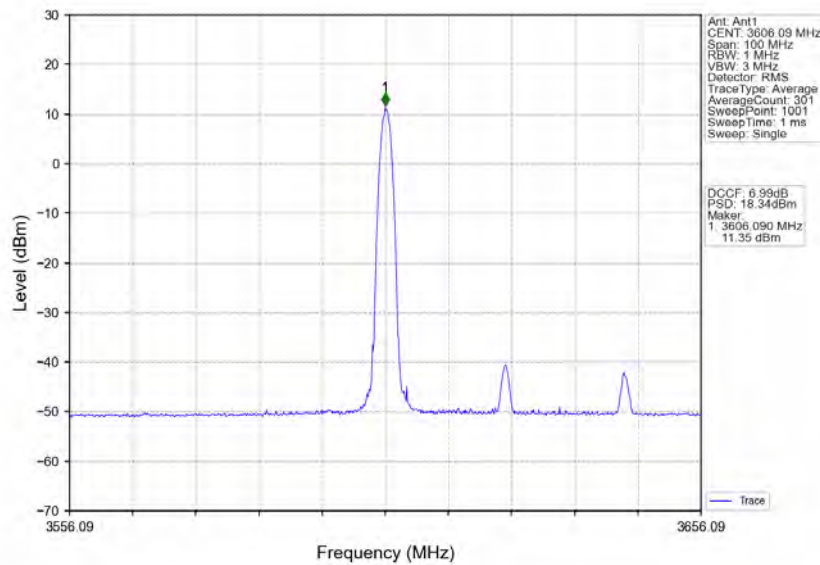
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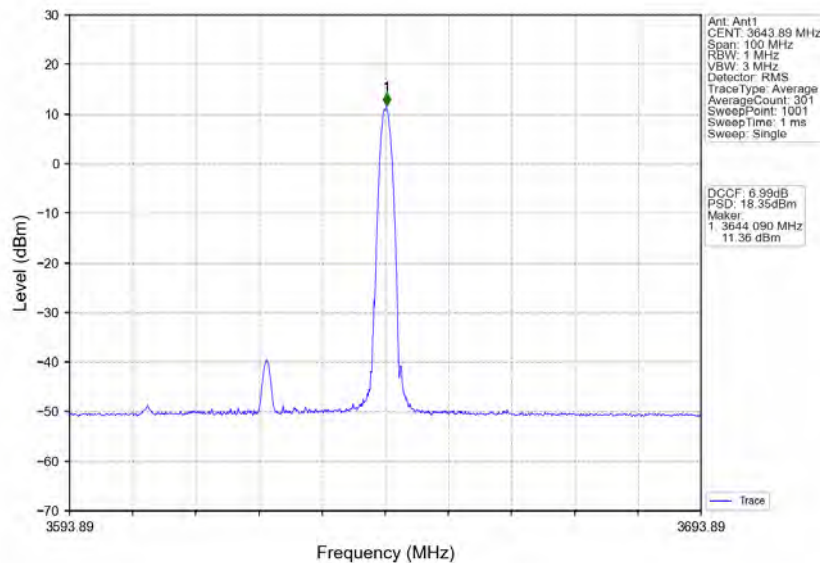
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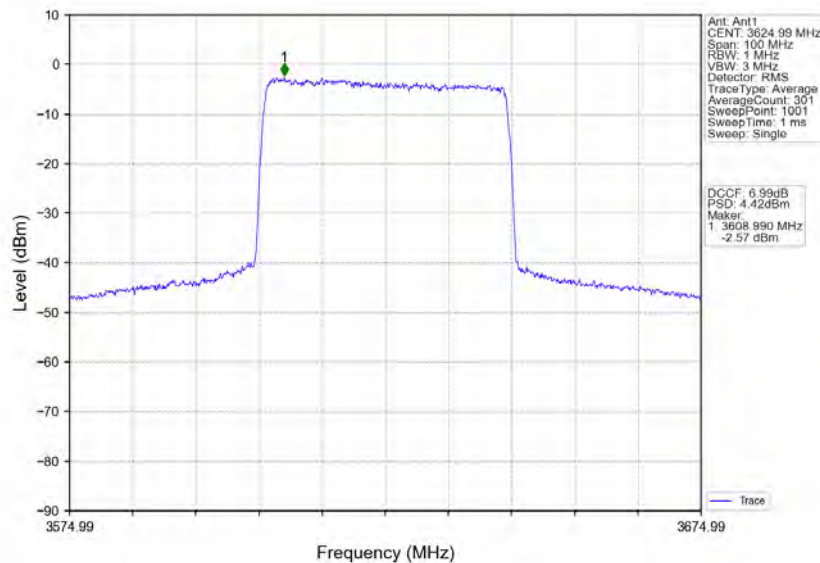
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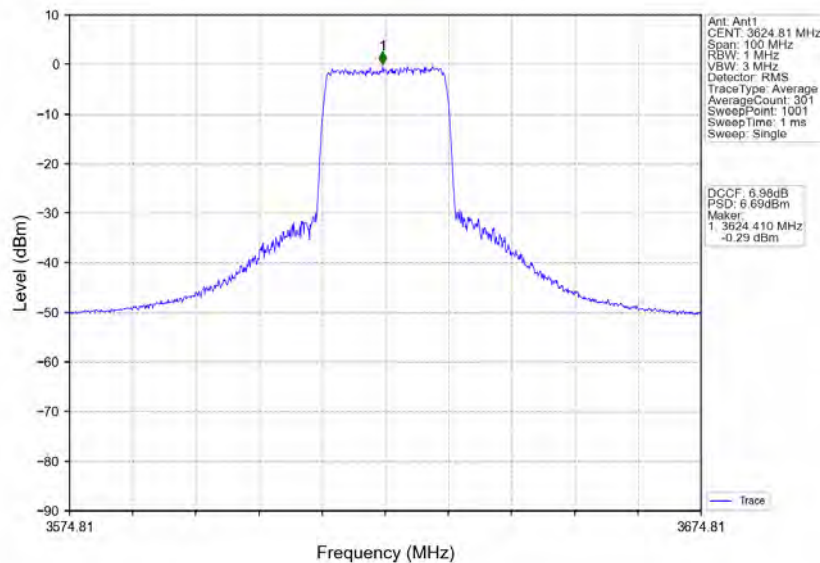
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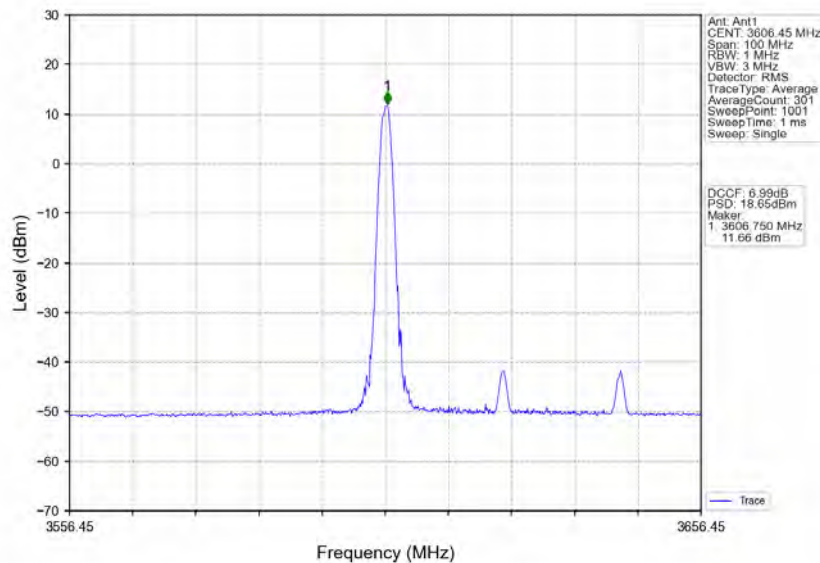
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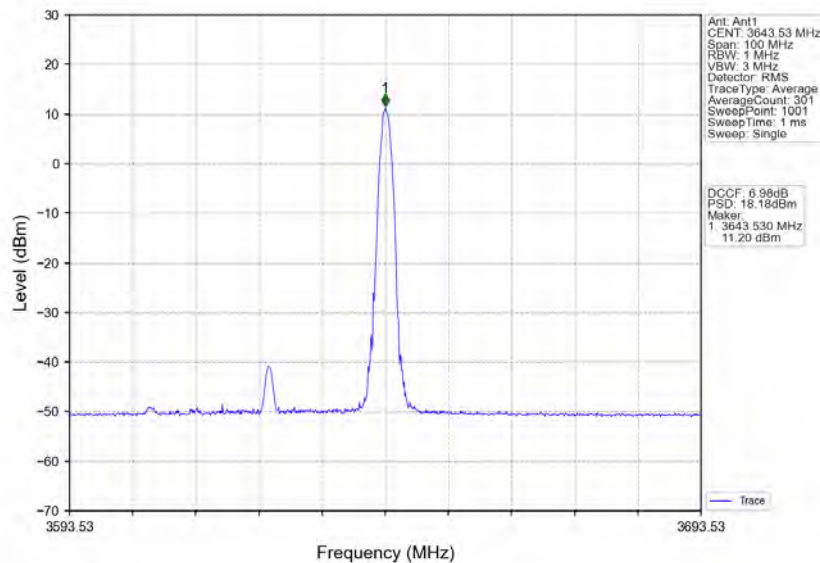
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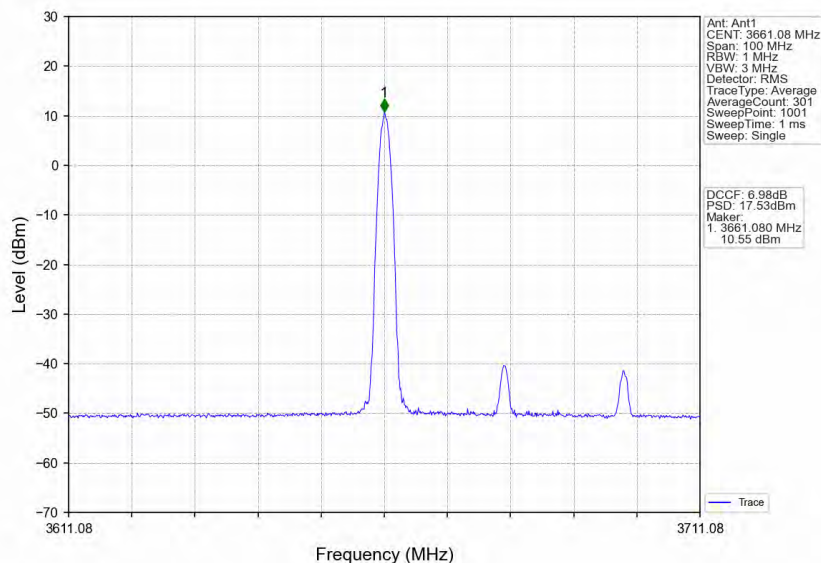
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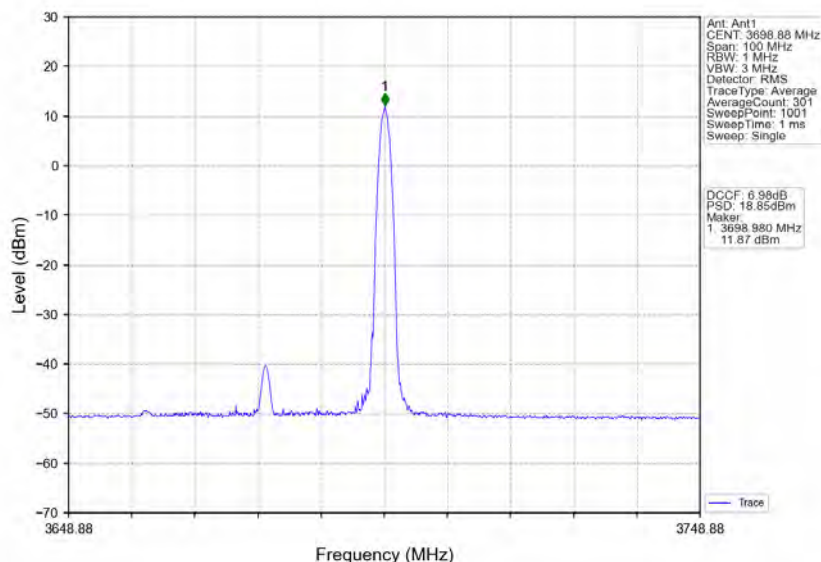
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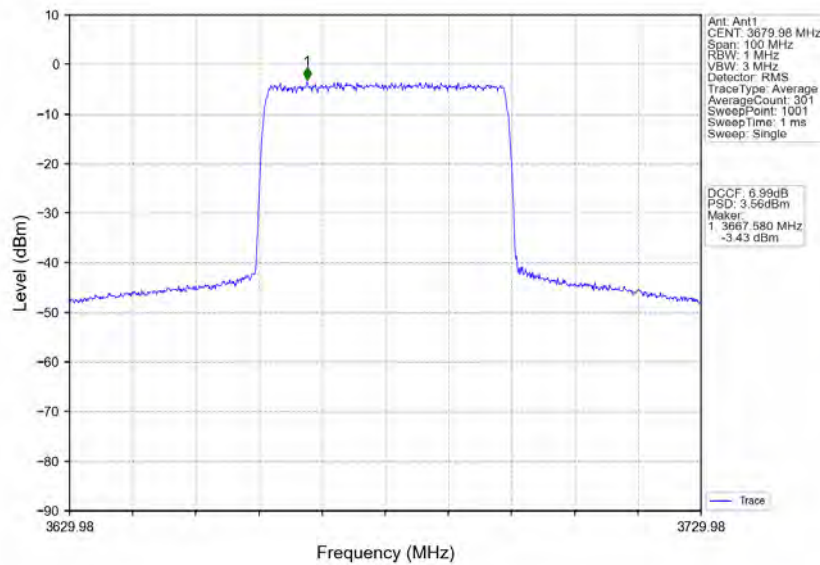
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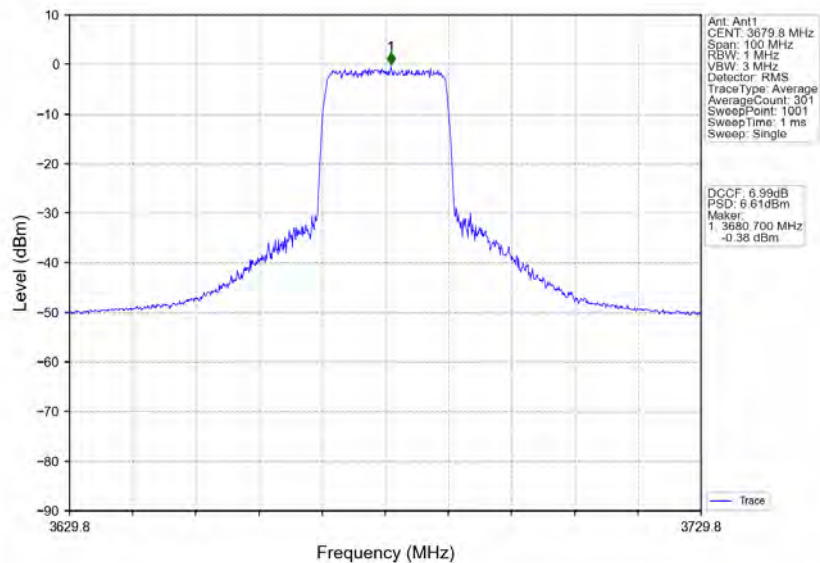
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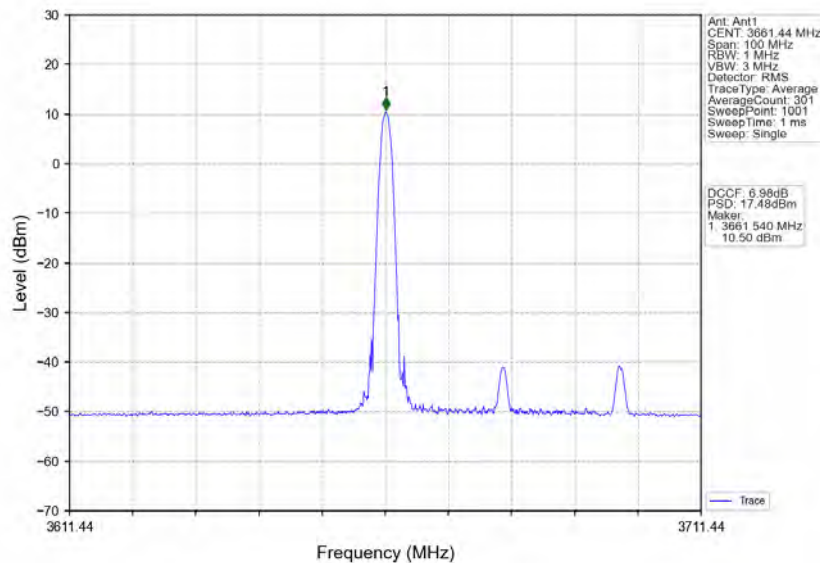
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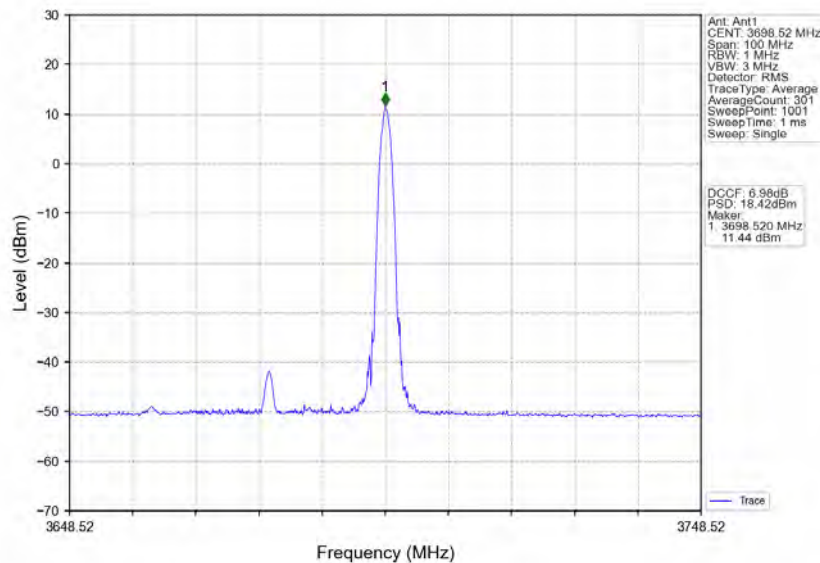
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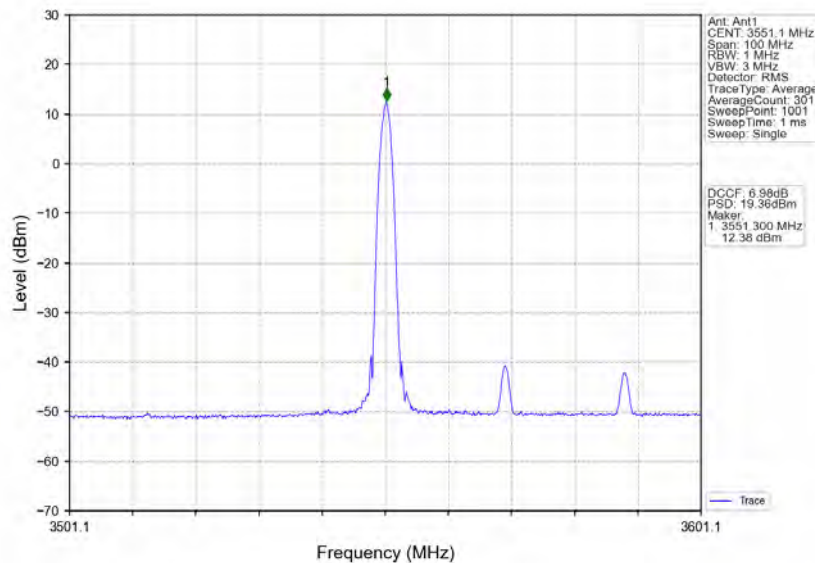
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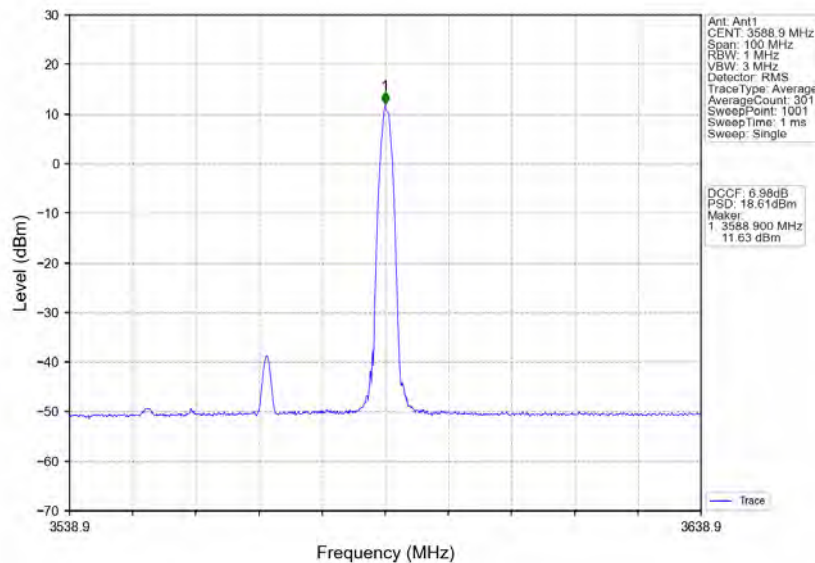
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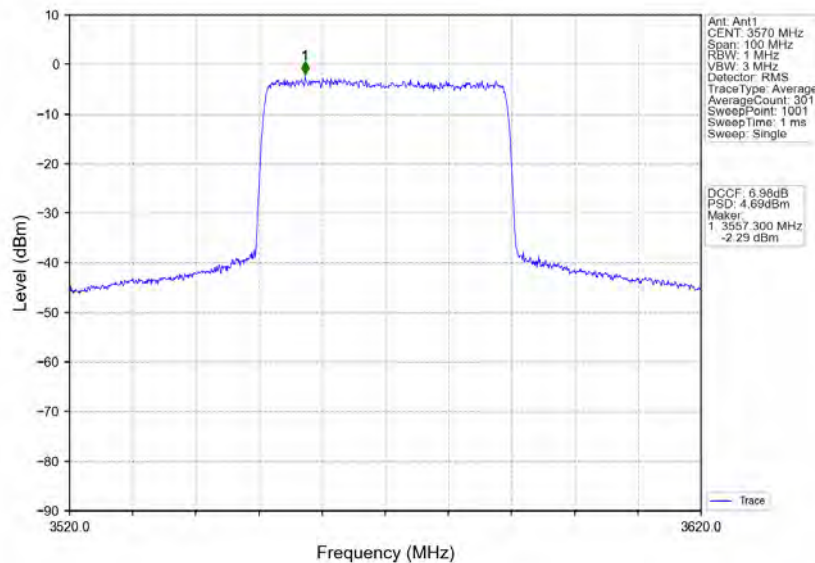
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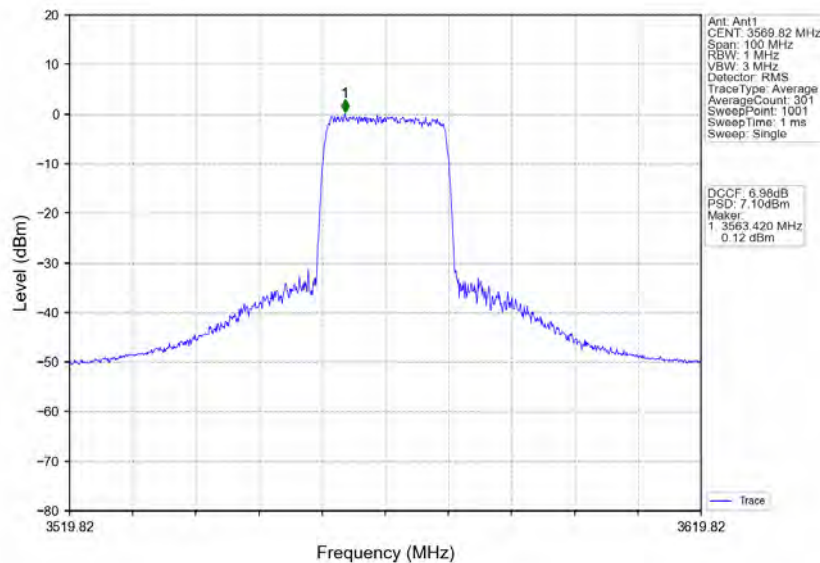
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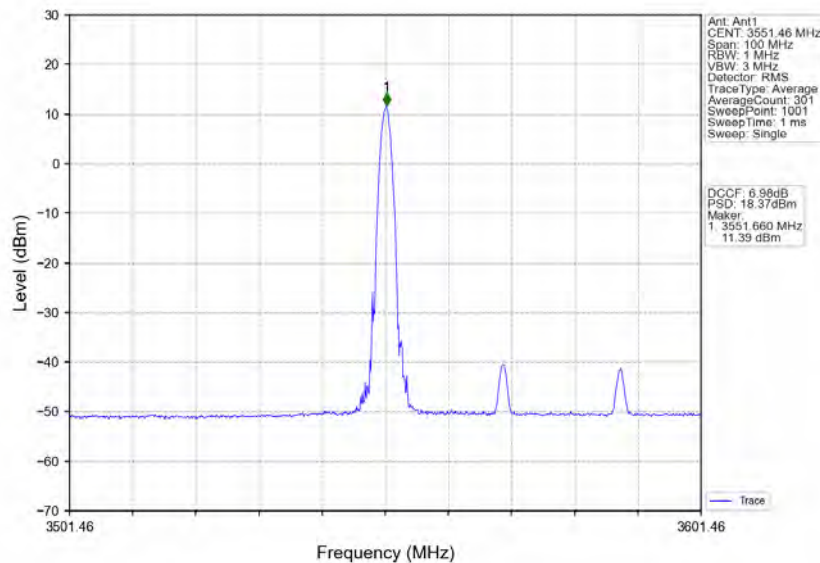
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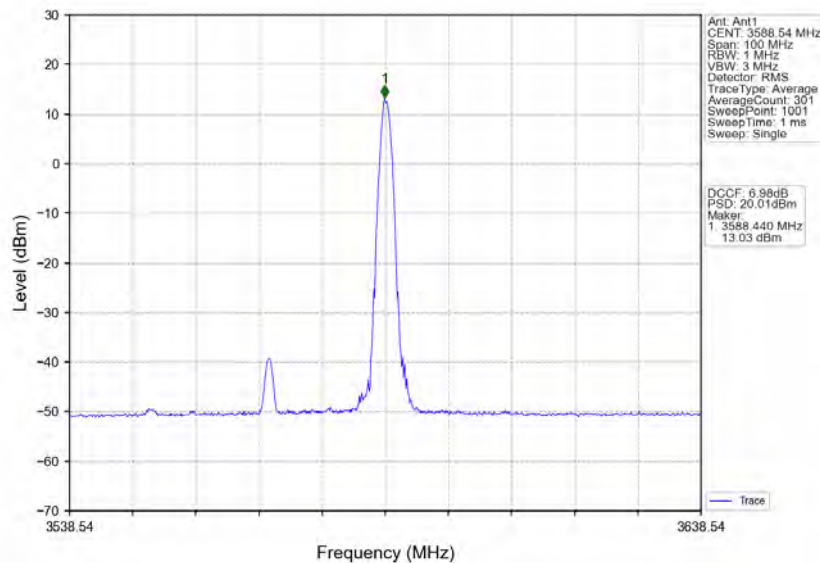
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM_3570MHz_Inner_1RB_Left



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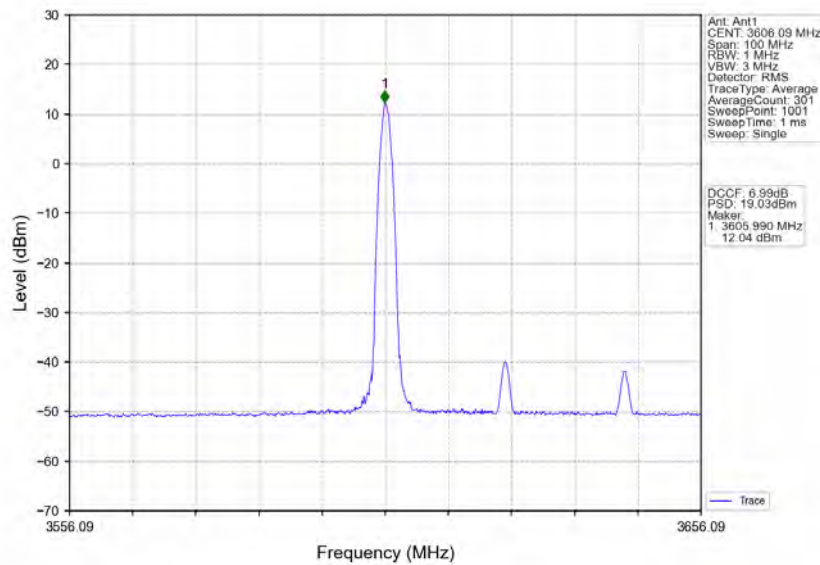
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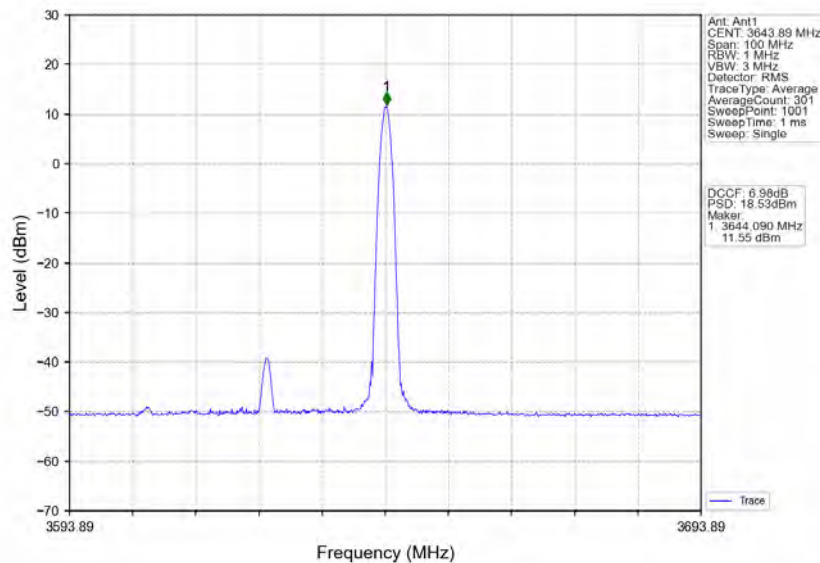
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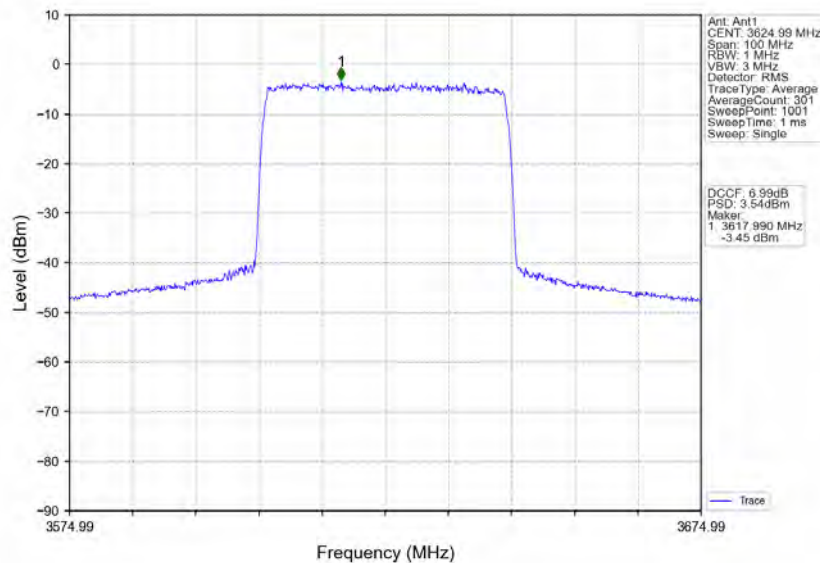
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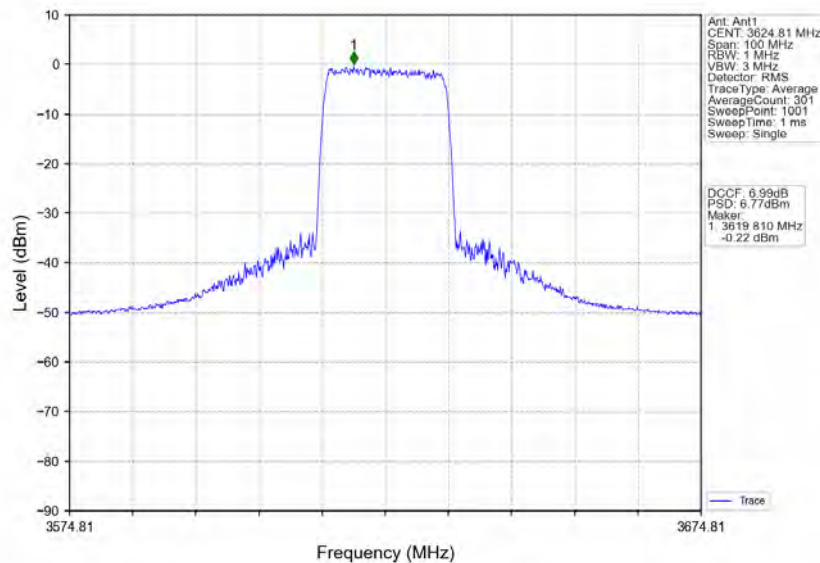
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM 3624.99MHz_Outer_Full



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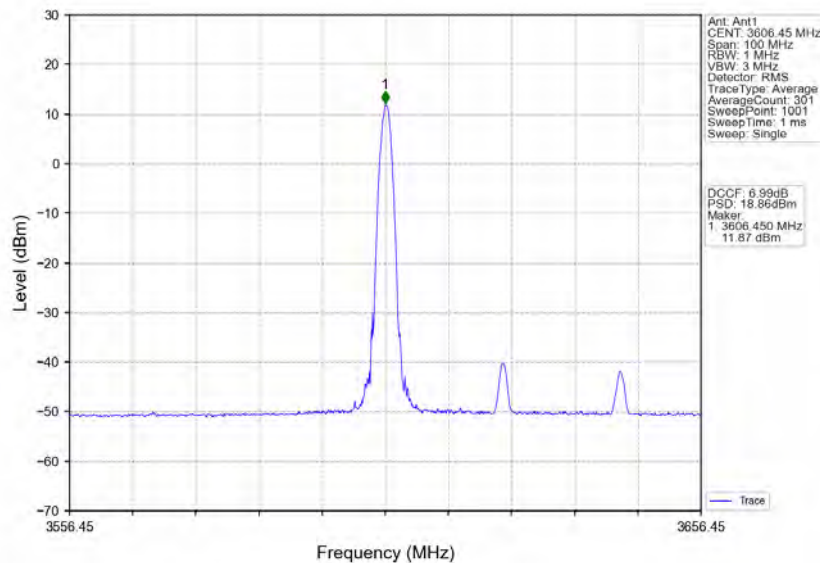
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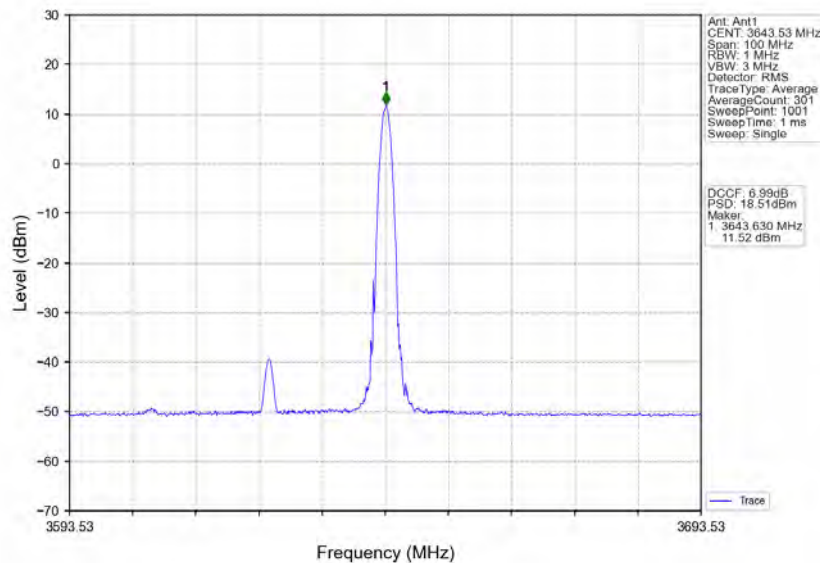
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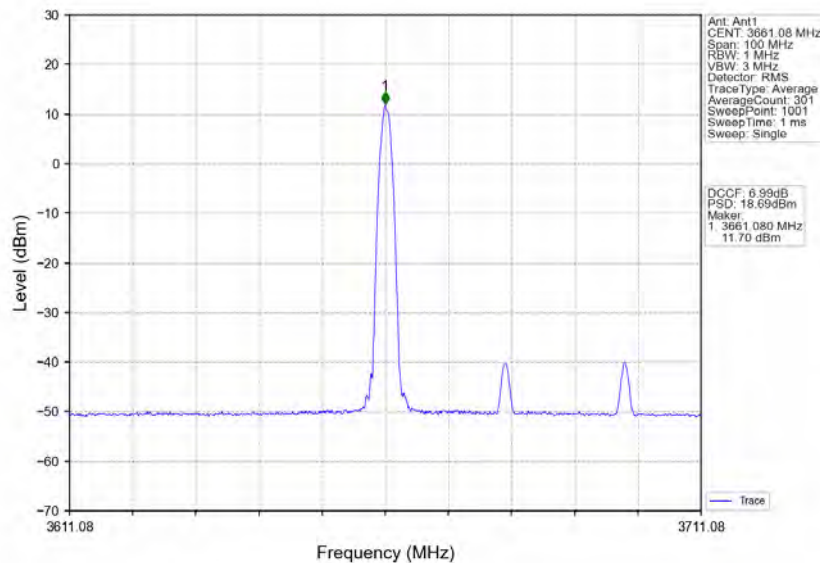
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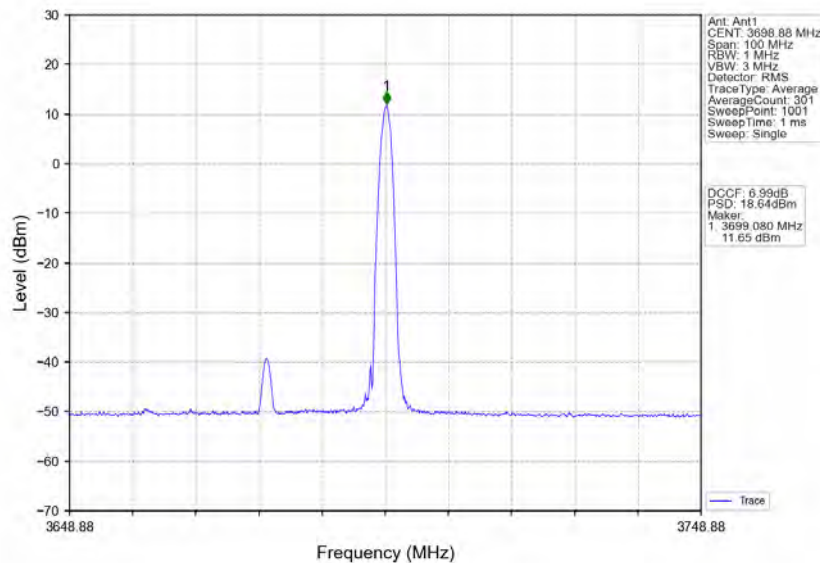
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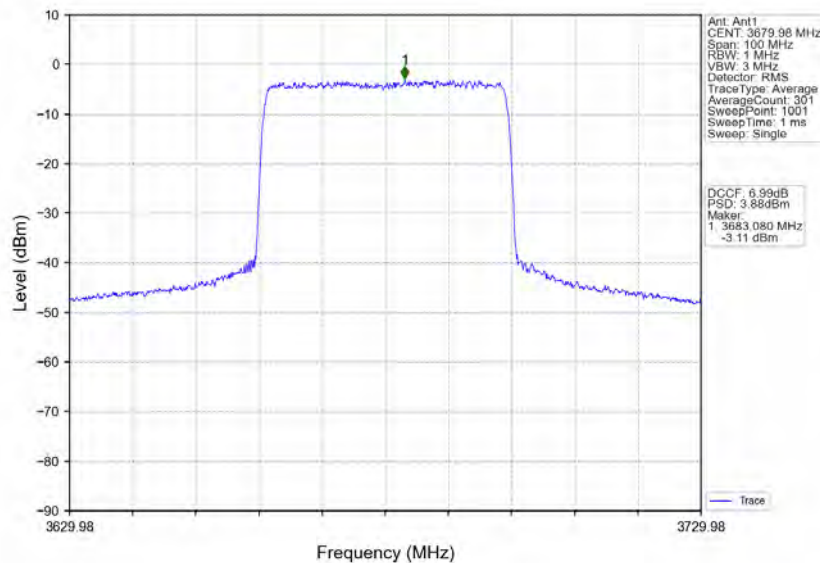
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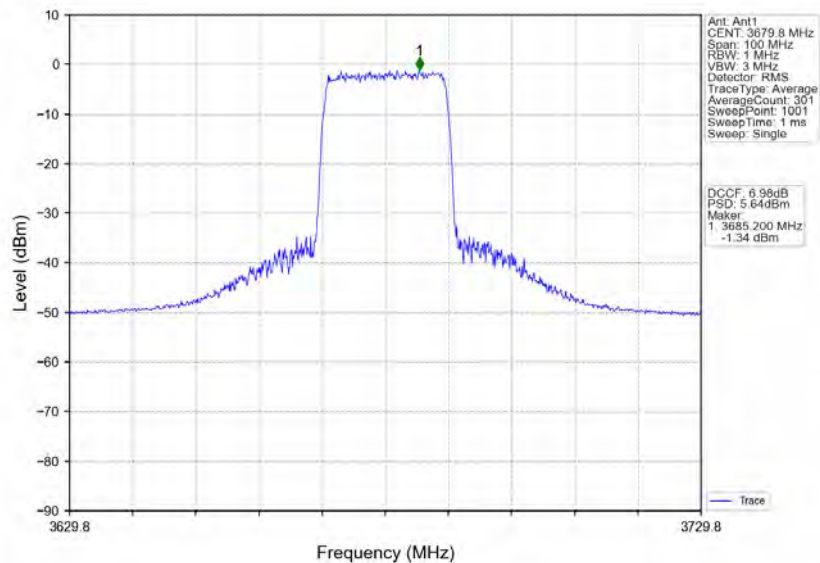
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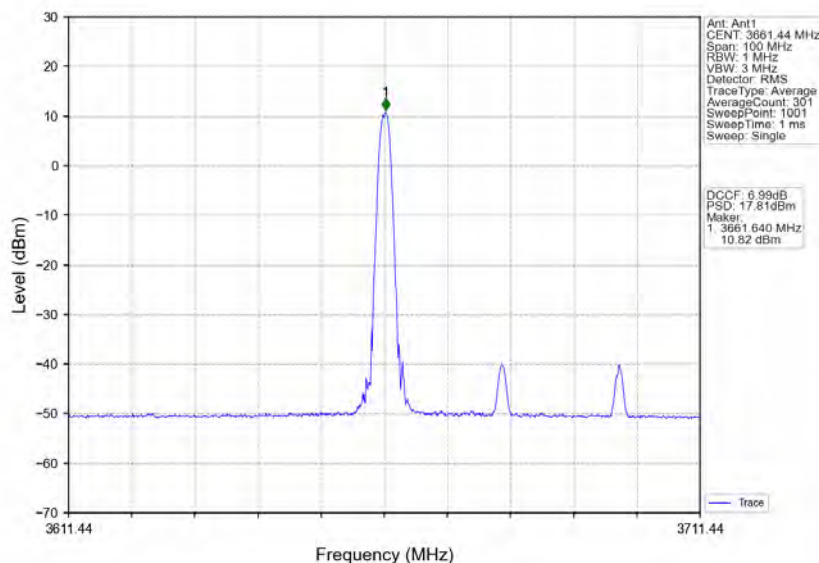
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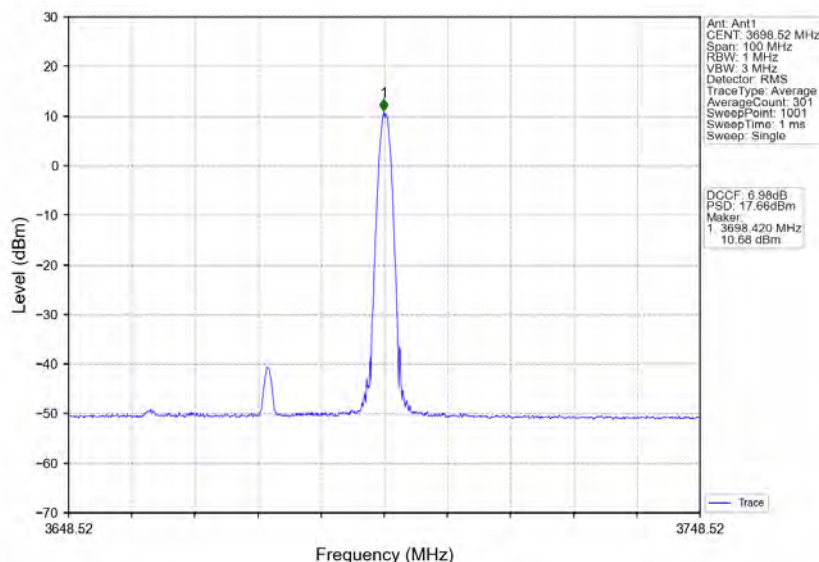
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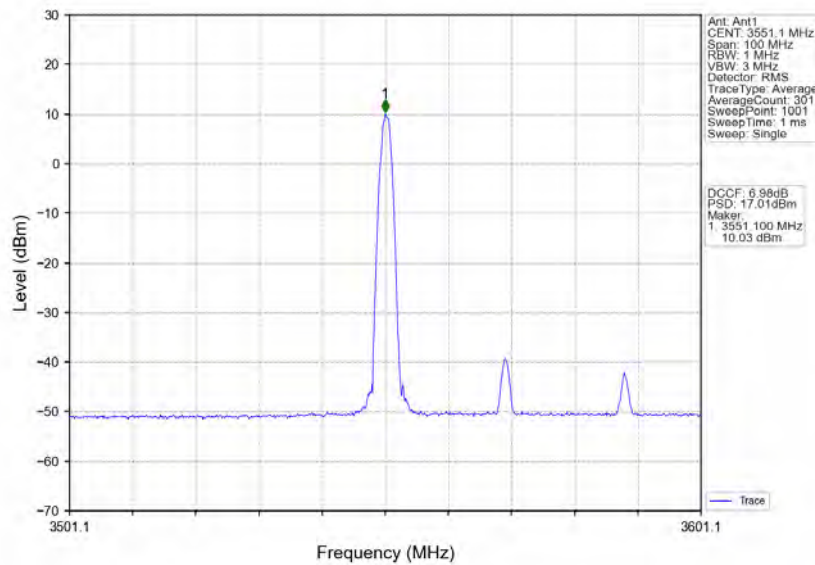
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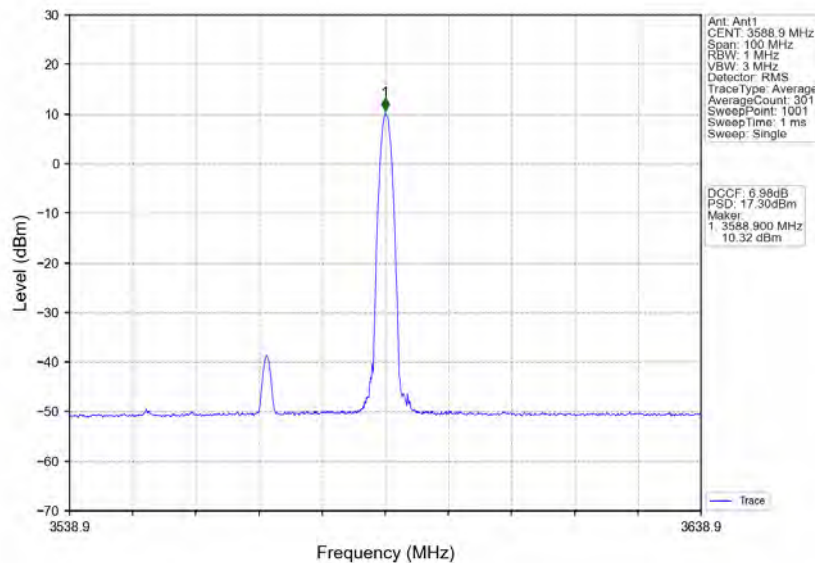
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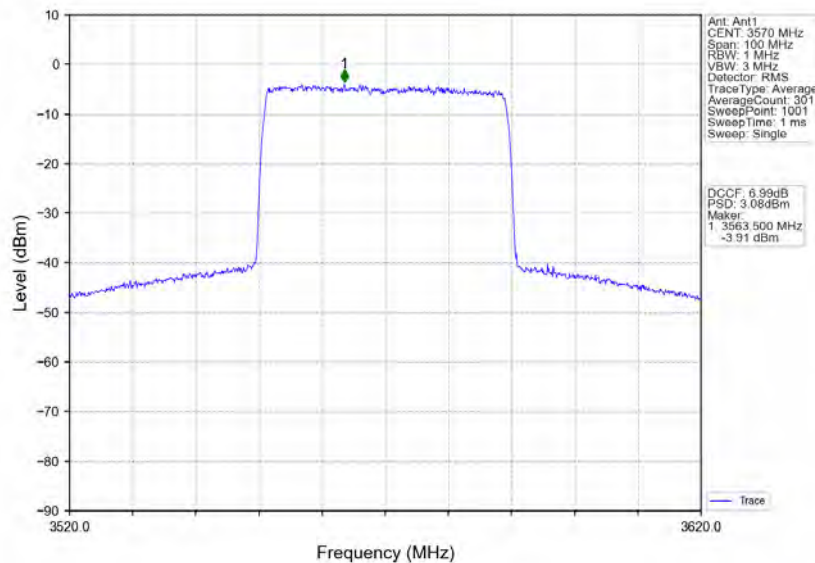
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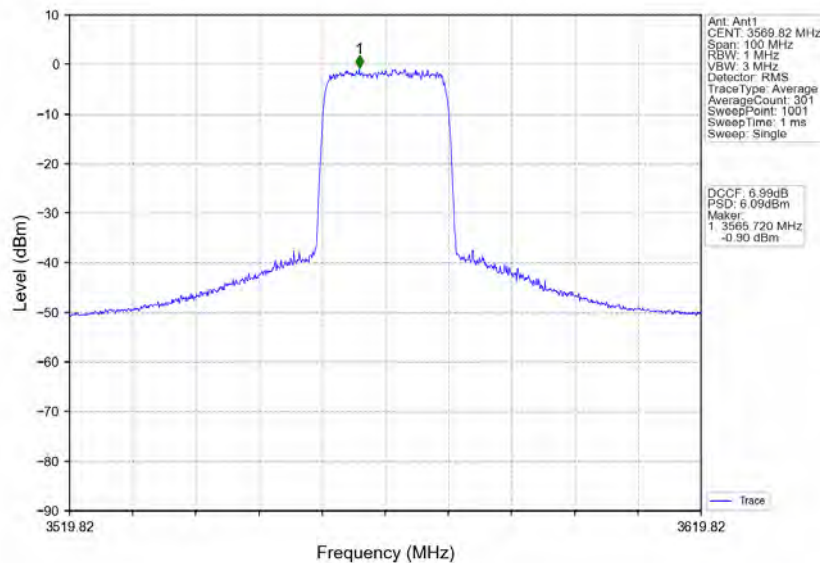
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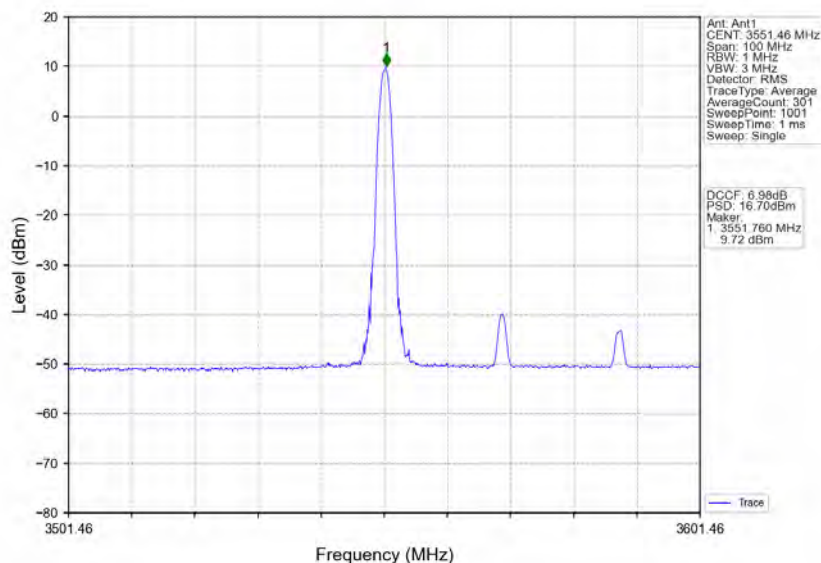
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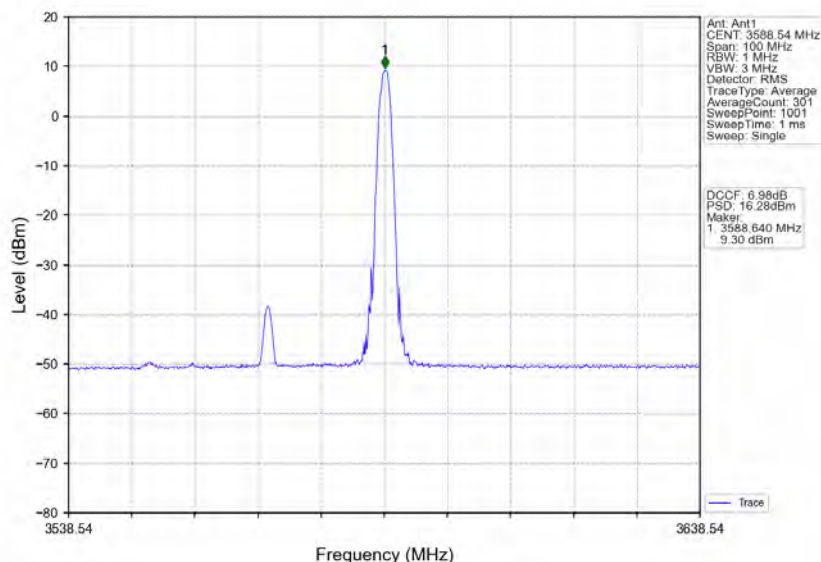
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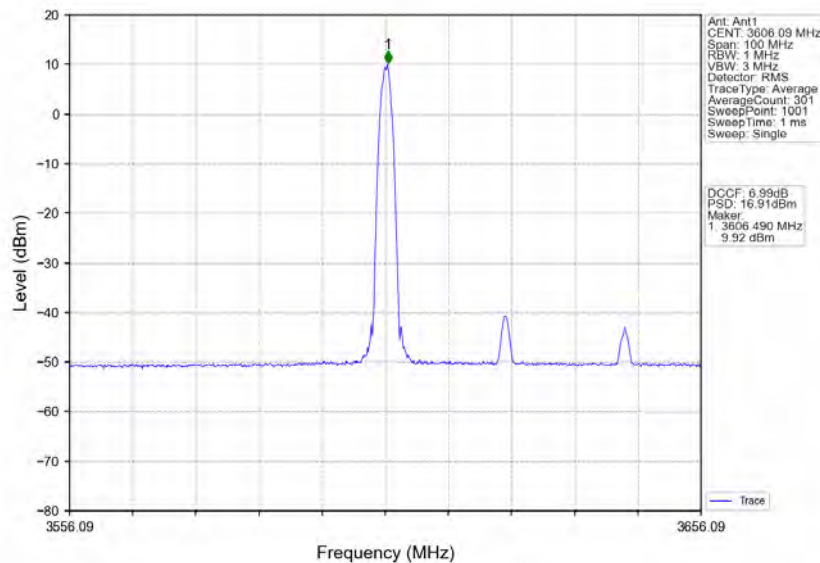
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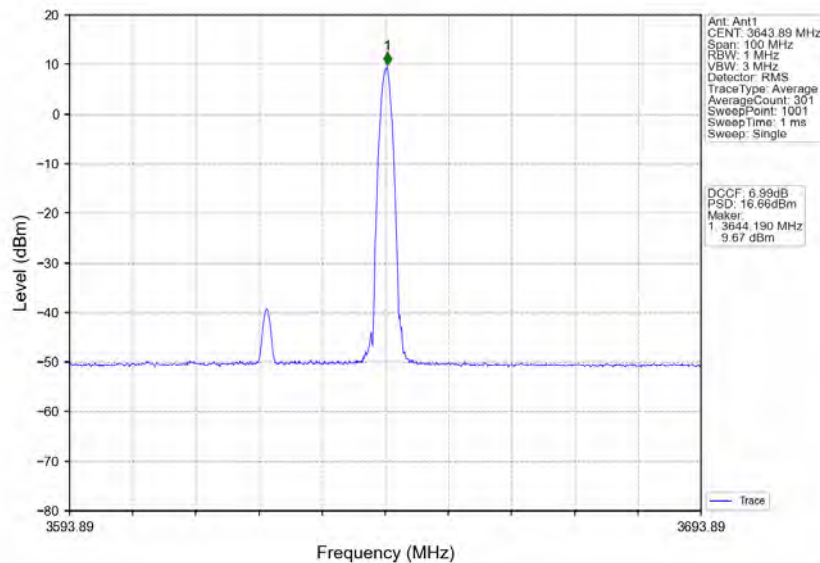
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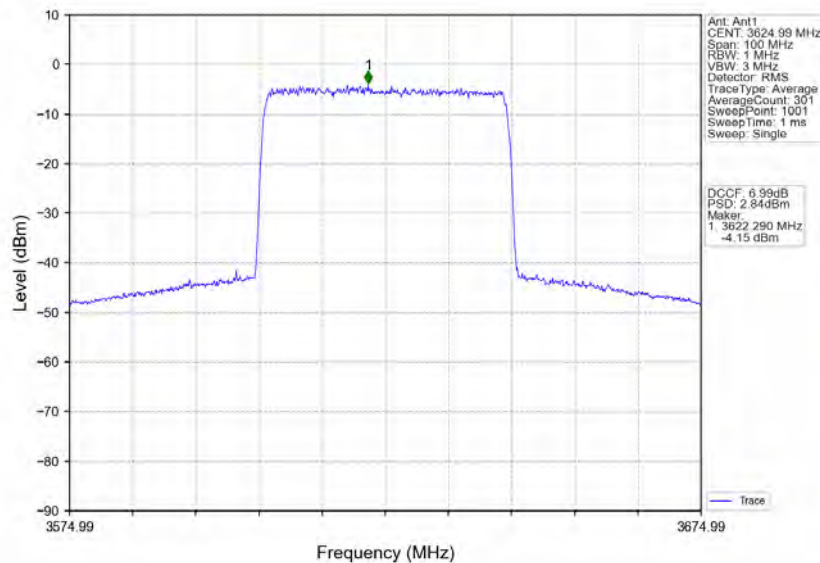
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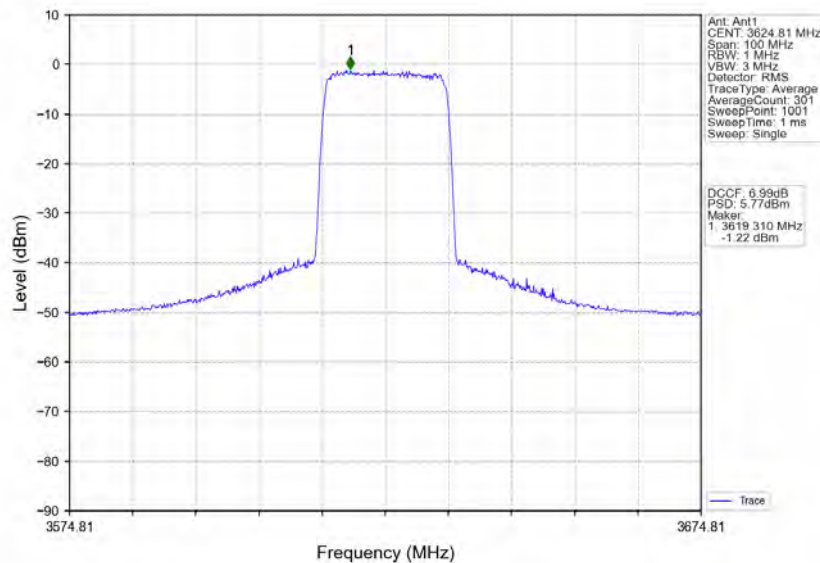
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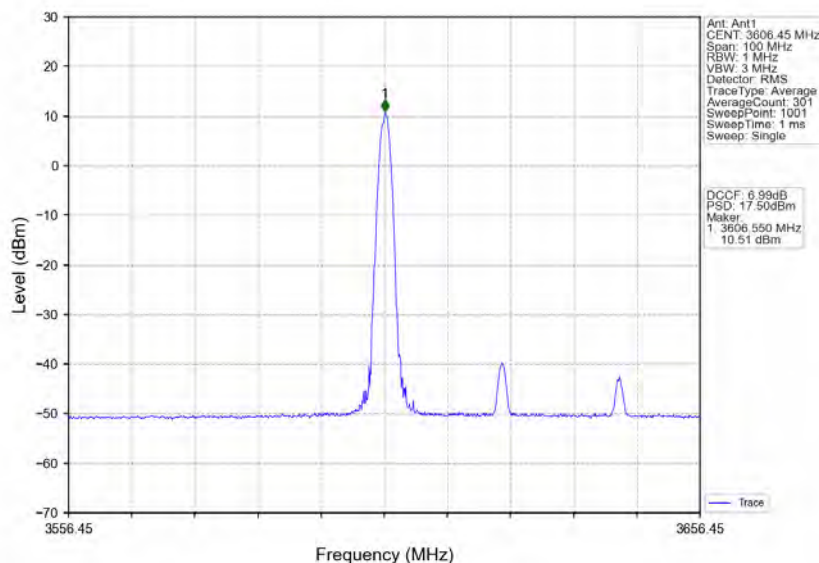
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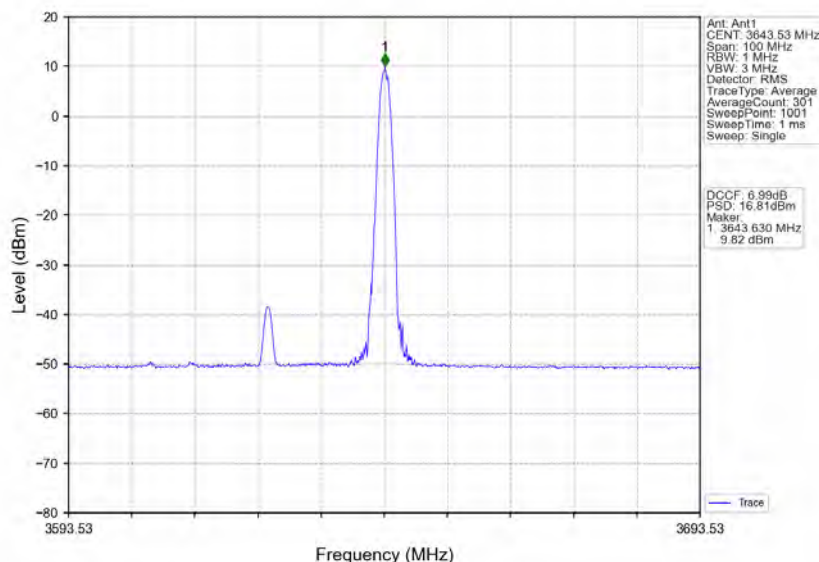
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Right



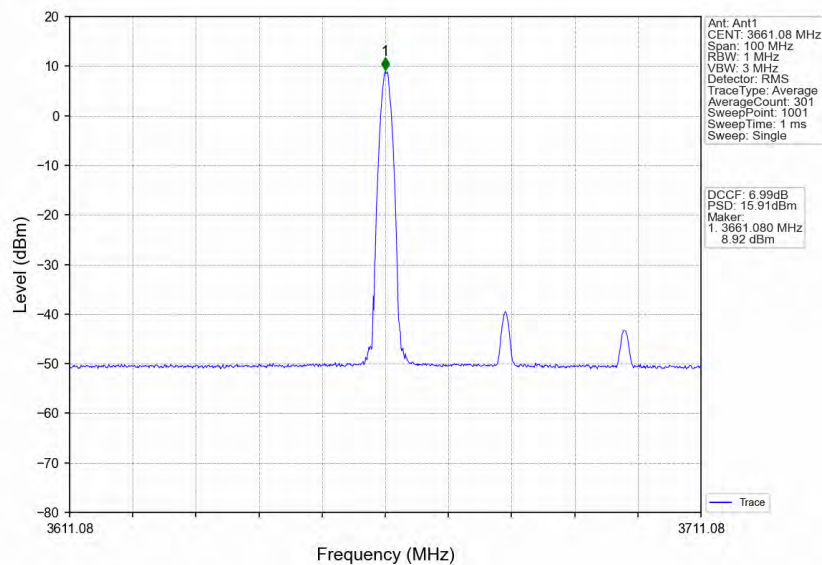
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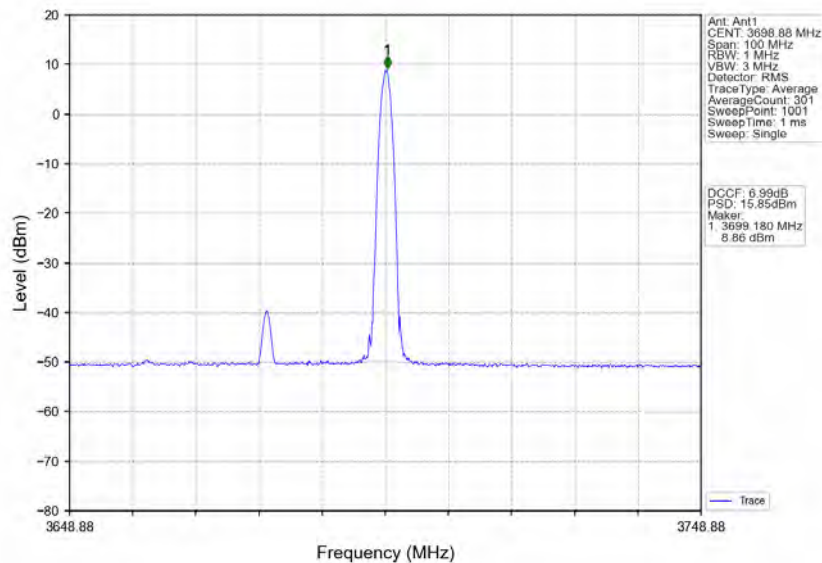
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Edge_1RB_Right



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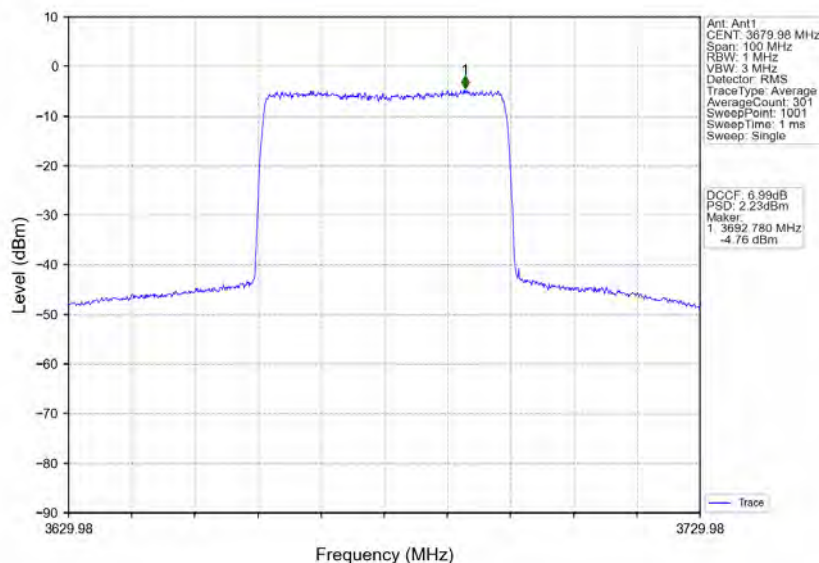
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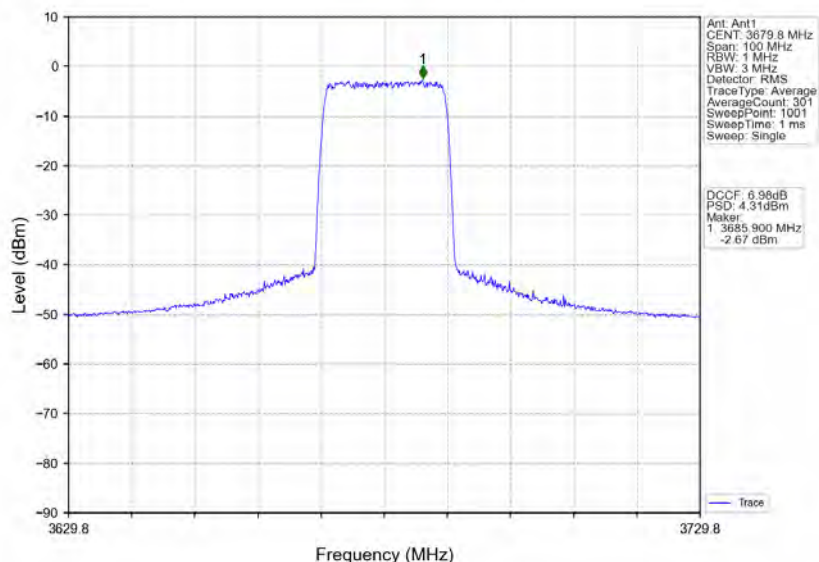
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_Full



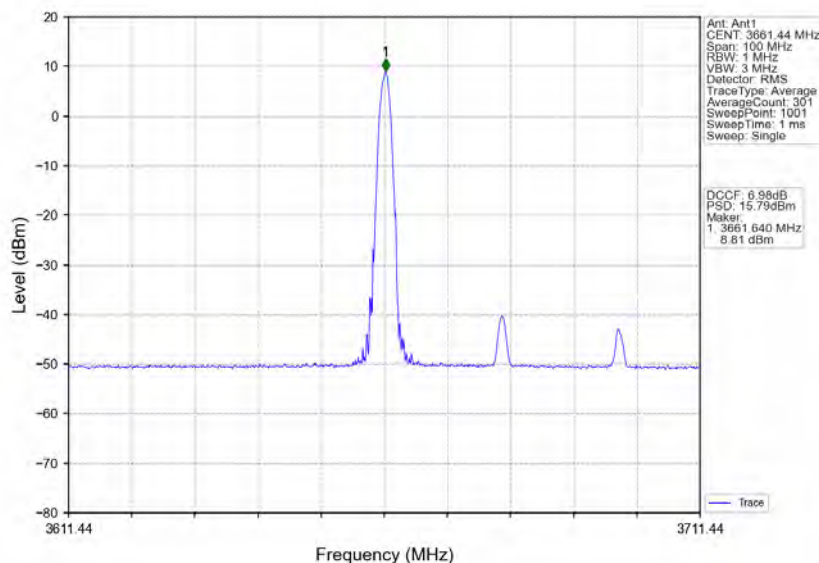
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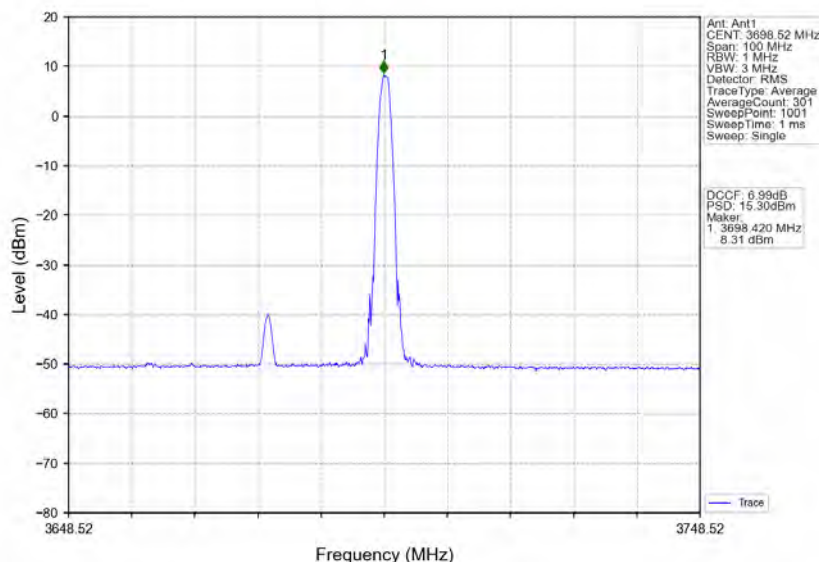
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_1RB_Right



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3. Frequency Stability

3.1 30k_MIMO_10MHz

3.1.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
				HV	18.90	0.0052	>=-2.5 & <=2.5	Pass
			-30	NV	11.20	0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	22.80	0.0063	>=-2.5 & <=2.5	Pass
			-10	NV	13.60	0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	11.50	0.0032	>=-2.5 & <=2.5	Pass
			30	NV	11.90	0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	18.20	0.0050	>=-2.5 & <=2.5	Pass
				HV	9.10	0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	16.80	0.0046	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	2.40	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	20.90	0.0058	>=-2.5 & <=2.5	Pass
			10	NV	25.30	0.0070	>=-2.5 & <=2.5	Pass
			20	NV	18.60	0.0051	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	5.70	0.0016	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
				HV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	-10.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	11.80	0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	13.30	0.0037	>=-2.5 & <=2.5	Pass
			0	NV	11.90	0.0033	>=-2.5 & <=2.5	Pass
			10	NV	11.00	0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	10.40	0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	16.40	0.0045	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	20.00	0.0055	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	6.80	0.0019	>=-2.5 & <=2.5	Pass
			10	NV	15.40	0.0042	>=-2.5 & <=2.5	Pass
			20	NV	10.80	0.0030	>=-2.5 & <=2.5	Pass
			30	NV	17.70	0.0049	>=-2.5 & <=2.5	Pass

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		40	NV	28.20	0.0078	>=-2.5 & <=2.5	Pass
		50	NV	14.80	0.0041	>=-2.5 & <=2.5	Pass

3.2 30k_MIMO_20MHz

3.2.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	20.90	0.0058	>=-2.5 & <=2.5	Pass
			-30	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-10.90	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-14.10	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-18.30	-0.0050	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	8.90	0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	14.00	0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-11.20	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-11.00	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-11.30	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	12.80	0.0035	>=-2.5 & <=2.5	Pass
				HV	11.40	0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	8.30	0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-1.30	-0.0004	>=-2.5 & <=2.5	Pass
			-10	NV	-9.80	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	3.60	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-12.40	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-11.00	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			50	NV	2.10	0.0006	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	5.80	0.0016	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	14.30	0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-18.10	-0.0050	>=-2.5 & <=2.5	Pass
			10	NV	-11.10	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	6.40	0.0018	>=-2.5 & <=2.5	Pass



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		40	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
		50	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass

3.3 30k_MIMO_40MHz

3.3.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	10.70	0.0030	>=-2.5 & <=2.5	Pass
				HV	14.20	0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	8.50	0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	10.00	0.0028	>=-2.5 & <=2.5	Pass
			0	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	2.50	0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	2.00	0.0006	>=-2.5 & <=2.5	Pass
			50	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	7.20	0.0020	>=-2.5 & <=2.5	Pass
				HV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-1.70	-0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	4.20	0.0012	>=-2.5 & <=2.5	Pass
			0	NV	12.40	0.0034	>=-2.5 & <=2.5	Pass
			10	NV	10.00	0.0028	>=-2.5 & <=2.5	Pass
			20	NV	8.10	0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-0.80	-0.0002	>=-2.5 & <=2.5	Pass
			40	NV	8.30	0.0023	>=-2.5 & <=2.5	Pass
			50	NV	16.00	0.0044	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	29.30	0.0081	>=-2.5 & <=2.5	Pass
				HV	23.30	0.0064	>=-2.5 & <=2.5	Pass
			-30	NV	-10.00	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-0.90	-0.0002	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			10	NV	17.50	0.0048	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	5.90	0.0016	>=-2.5 & <=2.5	Pass
			40	NV	6.40	0.0018	>=-2.5 & <=2.5	Pass
			50	NV	3.10	0.0009	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-11.10	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	4.70	0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	7.60	0.0021	>=-2.5 & <=2.5	Pass
			0	NV	6.40	0.0018	>=-2.5 & <=2.5	Pass
			10	NV	14.70	0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	13.70	0.0038	>=-2.5 & <=2.5	Pass



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			40	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			50	NV	-12.10	-0.0033	>=-2.5 & <=2.5	Pass

4. 99% & 26dB Bandwidth

4.1 30k_MIMO_10MHz_NTNV

4.1.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3555	Outer Full	8.72	10.34	/	Pass
	3624.99	Outer Full	8.62	9.91	/	Pass
	3694.98	Outer Full	8.73	9.37	/	Pass
CP-OFDM 16 QAM	3555	Outer Full	8.76	10.30	/	Pass
	3624.99	Outer Full	8.64	9.79	/	Pass
	3694.98	Outer Full	8.63	9.66	/	Pass
CP-OFDM 64 QAM	3555	Outer Full	8.74	10.18	/	Pass
	3624.99	Outer Full	8.73	9.84	/	Pass
	3694.98	Outer Full	8.69	9.48	/	Pass
CP-OFDM 256 QAM	3555	Outer Full	8.73	10.21	/	Pass
	3624.99	Outer Full	8.64	10.24	/	Pass
	3694.98	Outer Full	8.67	9.71	/	Pass



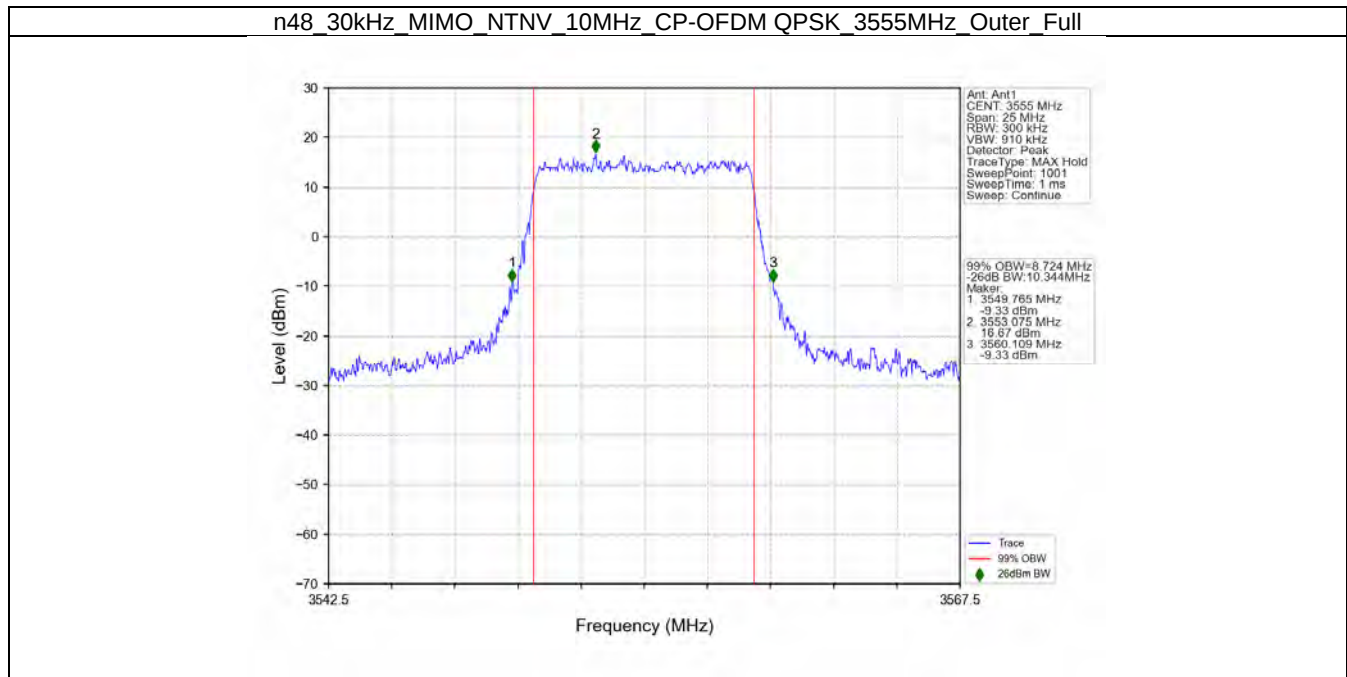
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4.1.2 Test Graph



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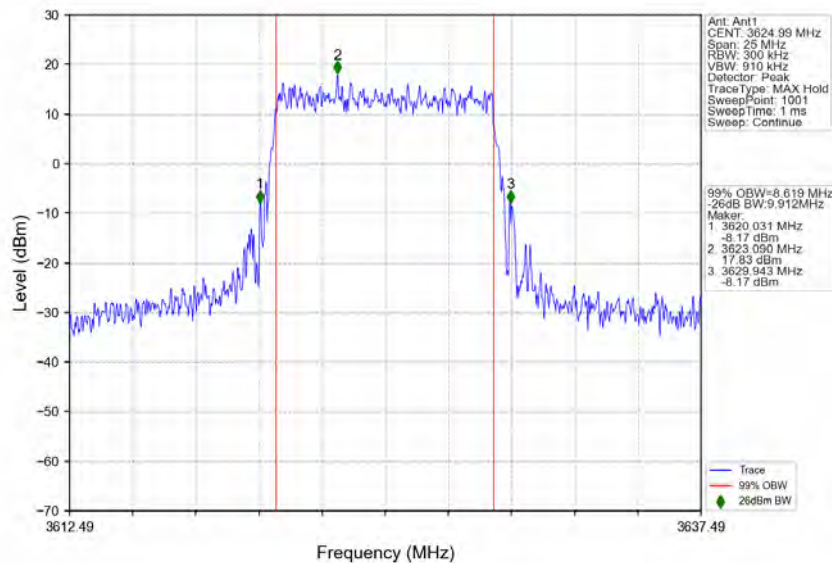
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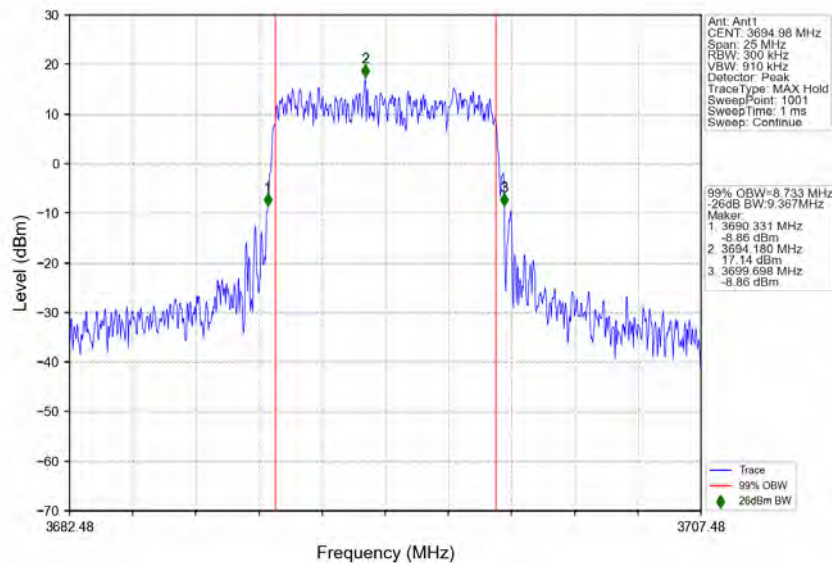
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Outer_Full



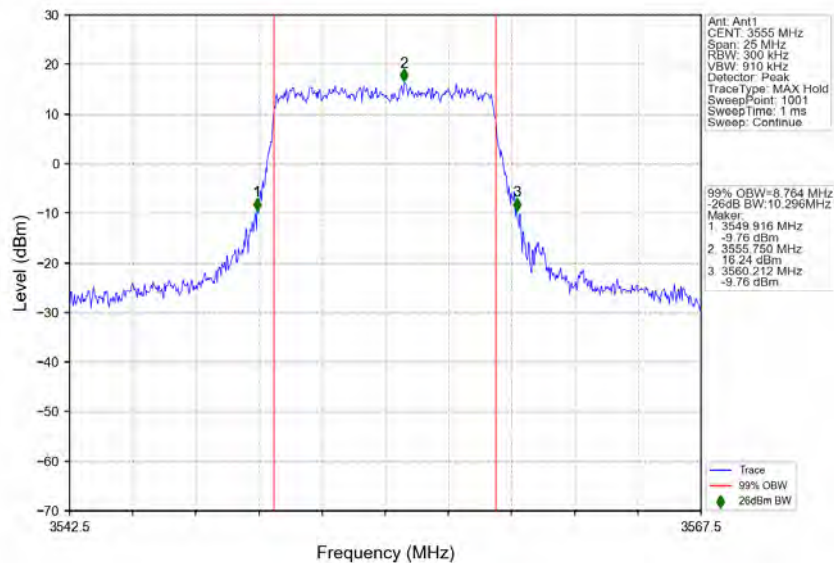
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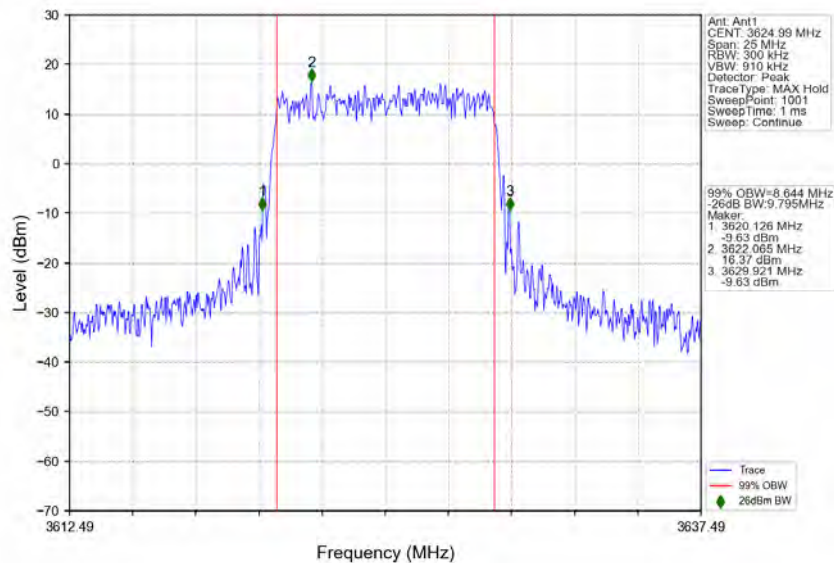
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3555MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



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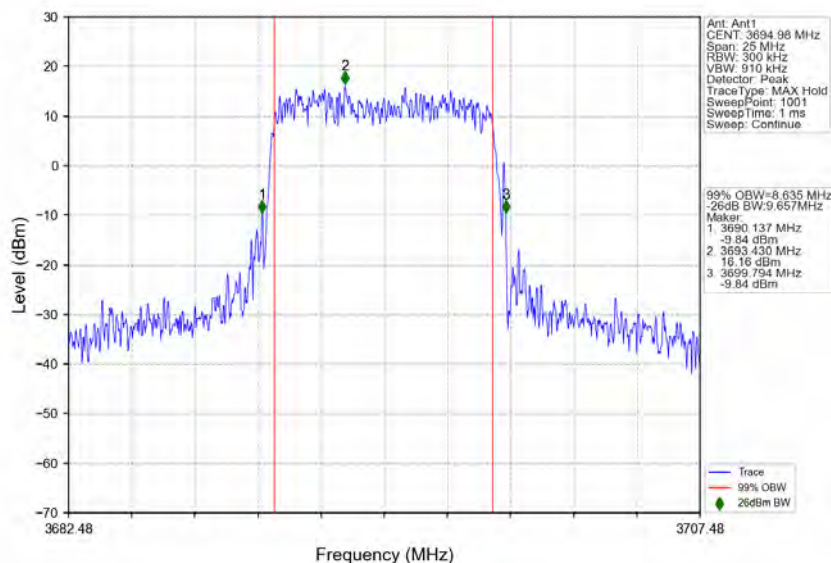
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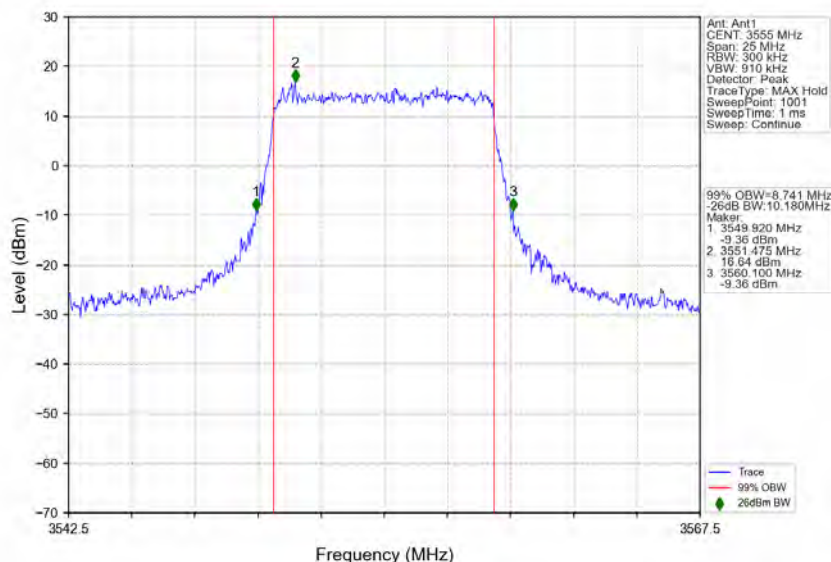
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM 3694.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM 3555MHz_Outer_Full



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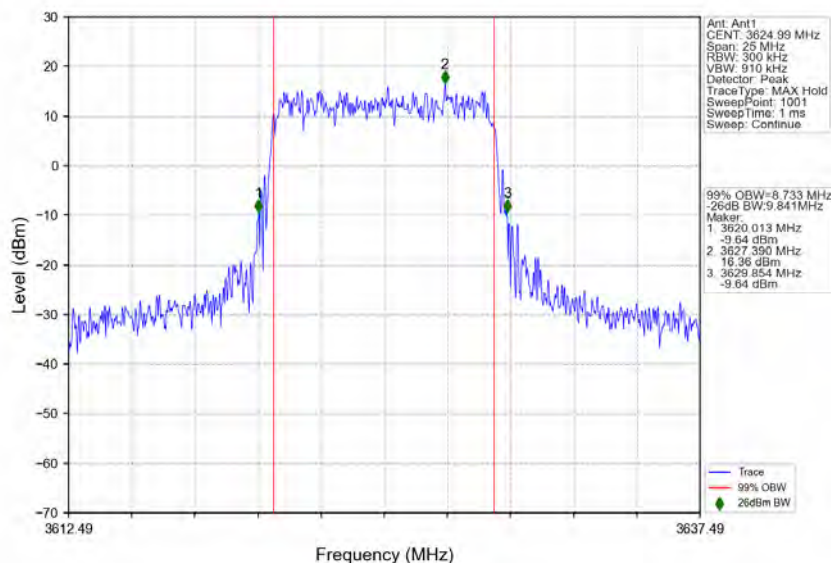
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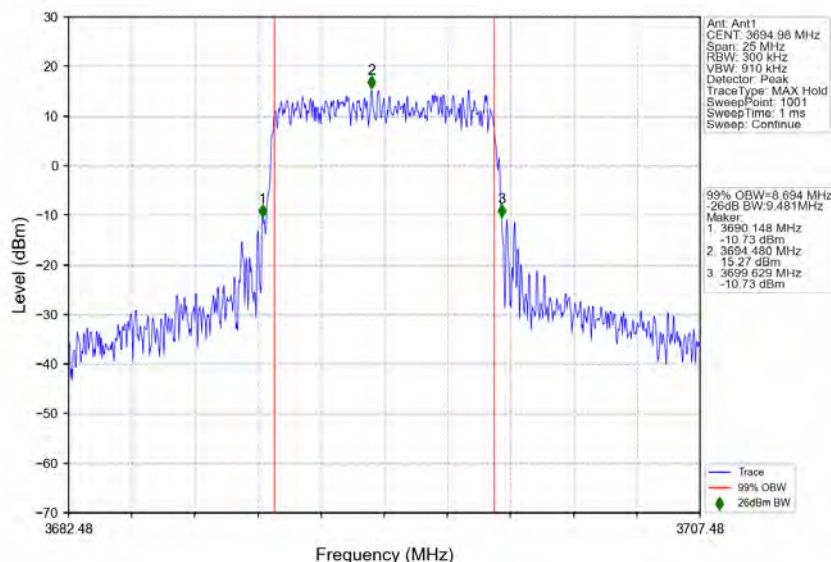
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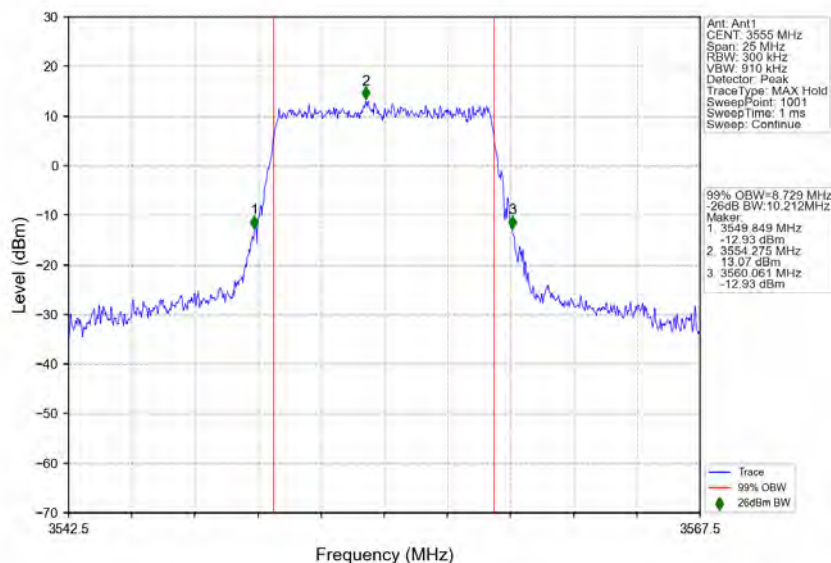
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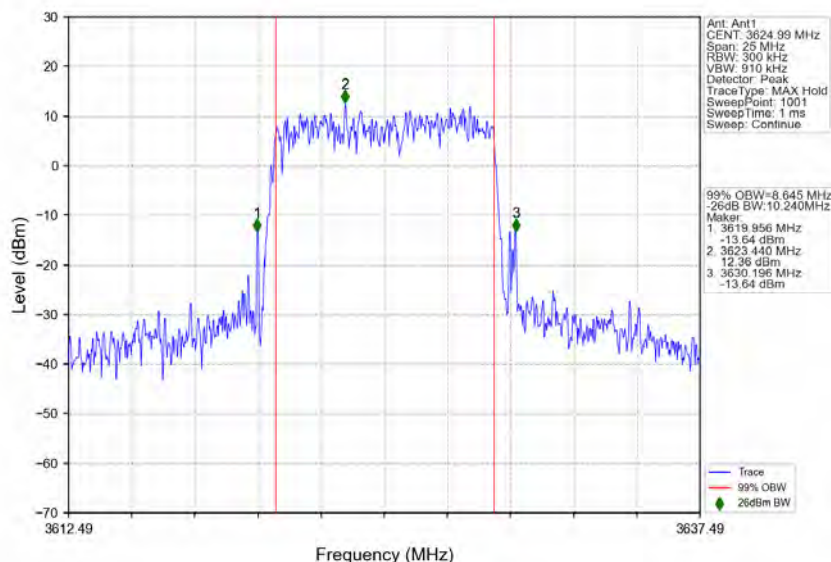
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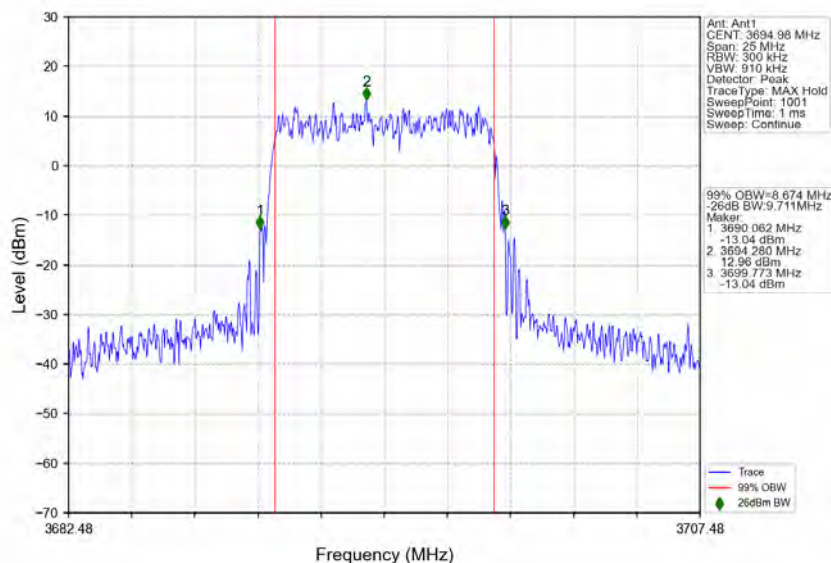
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4.2 30k_MIMO_20MHz_NTNV

4.2.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3560.01	Outer_Full	18.39	20.43	/	Pass
	3624.99	Outer_Full	18.43	20.35	/	Pass
	3690	Outer_Full	18.39	20.58	/	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	18.42	20.40	/	Pass
	3624.99	Outer_Full	18.41	19.81	/	Pass
	3690	Outer_Full	18.34	20.02	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	18.44	20.45	/	Pass
	3624.99	Outer_Full	10.21	10.96	/	Pass
	3690	Outer_Full	18.39	19.98	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	18.41	20.48	/	Pass
	3624.99	Outer_Full	18.39	19.70	/	Pass
	3690	Outer_Full	18.30	20.25	/	Pass



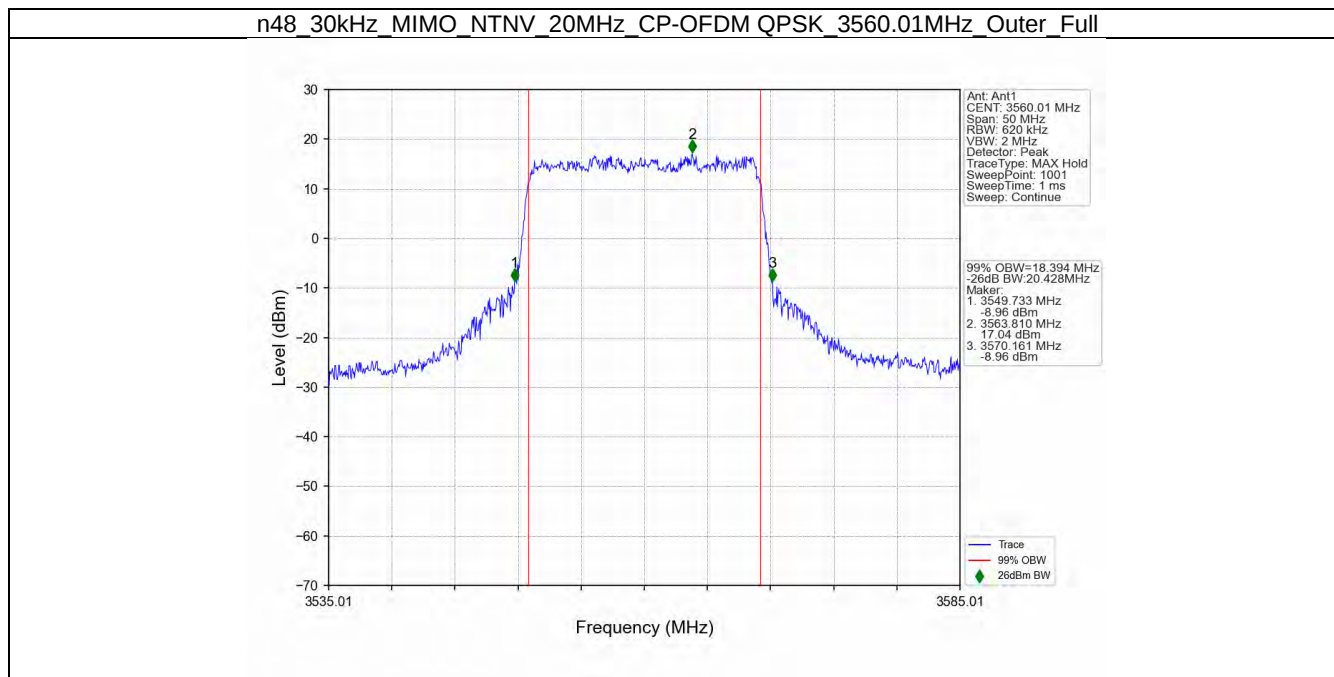
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4.2.2 Test Graph



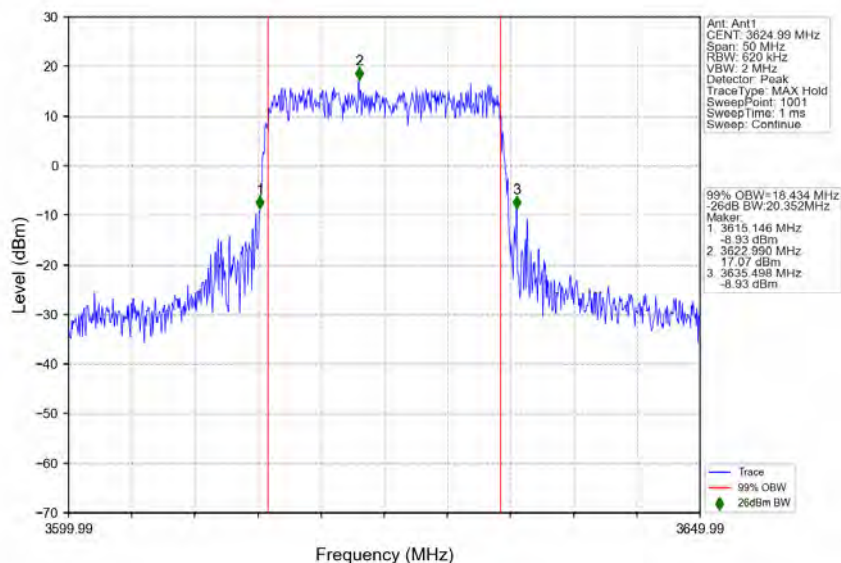
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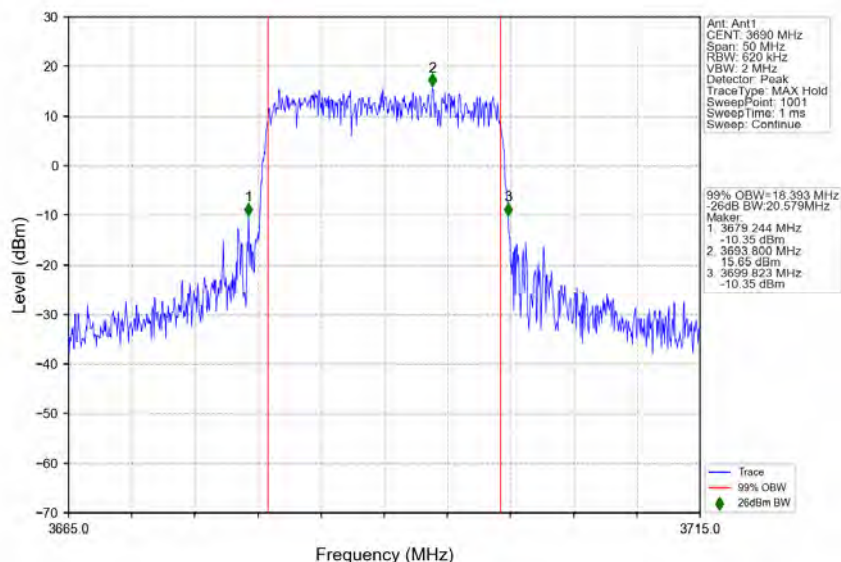
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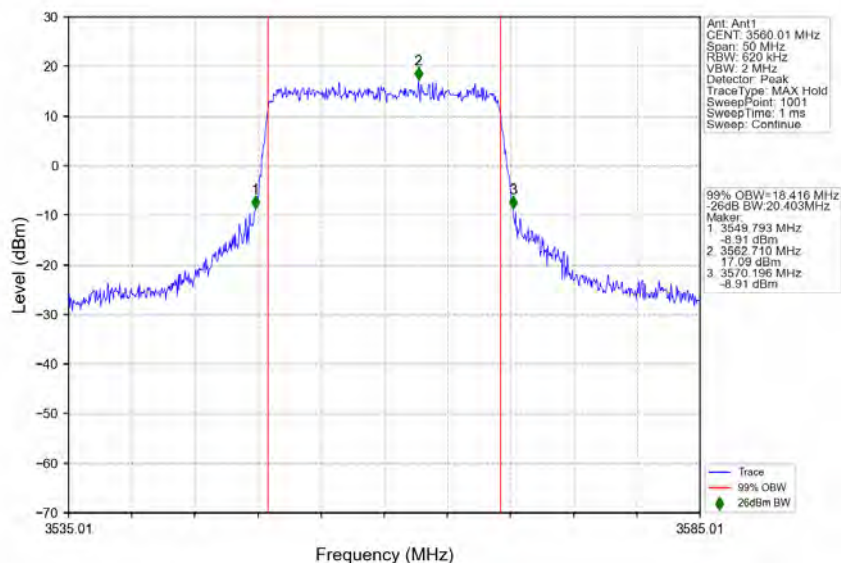
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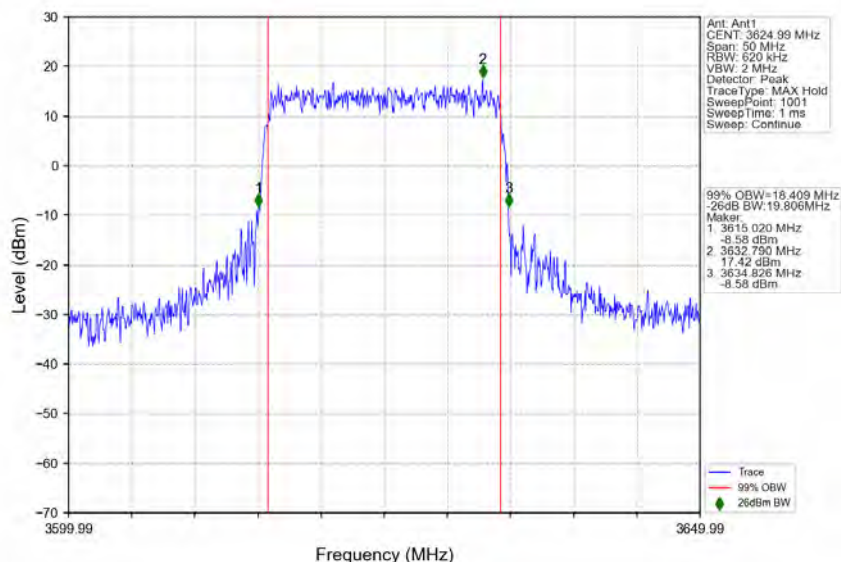
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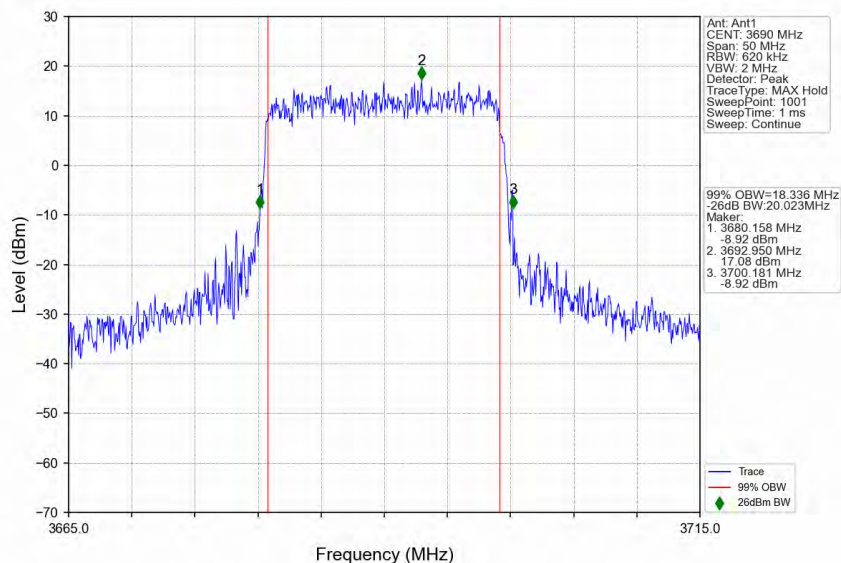
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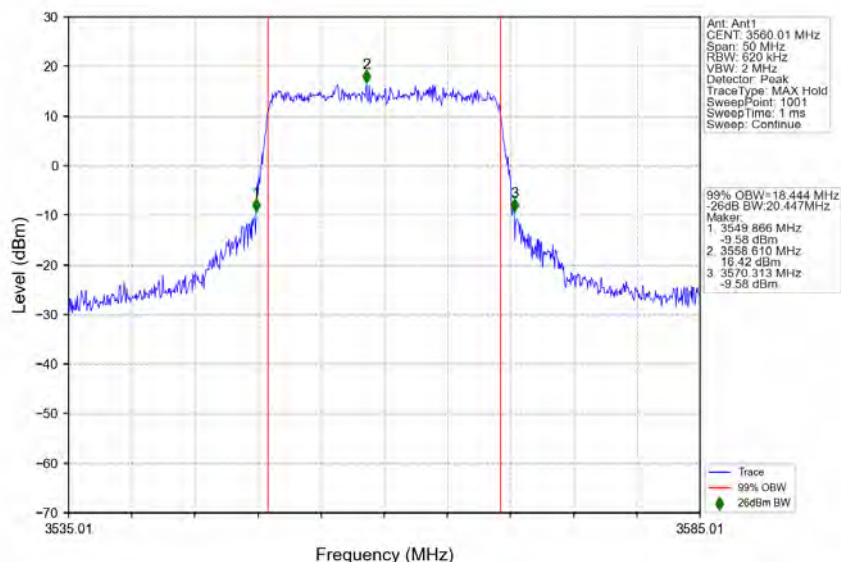
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 16 QAM 3690MHz_Outer_Full



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM 3560.01MHz_Outer_Full



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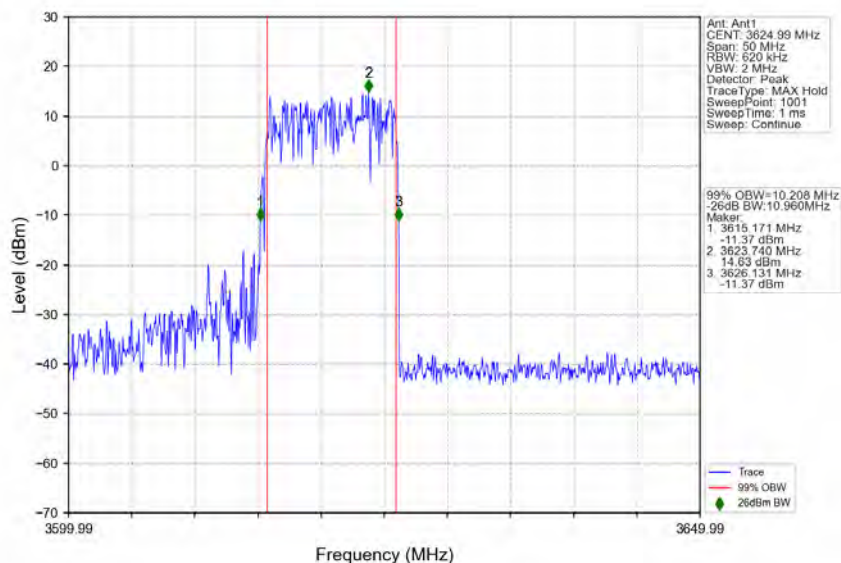
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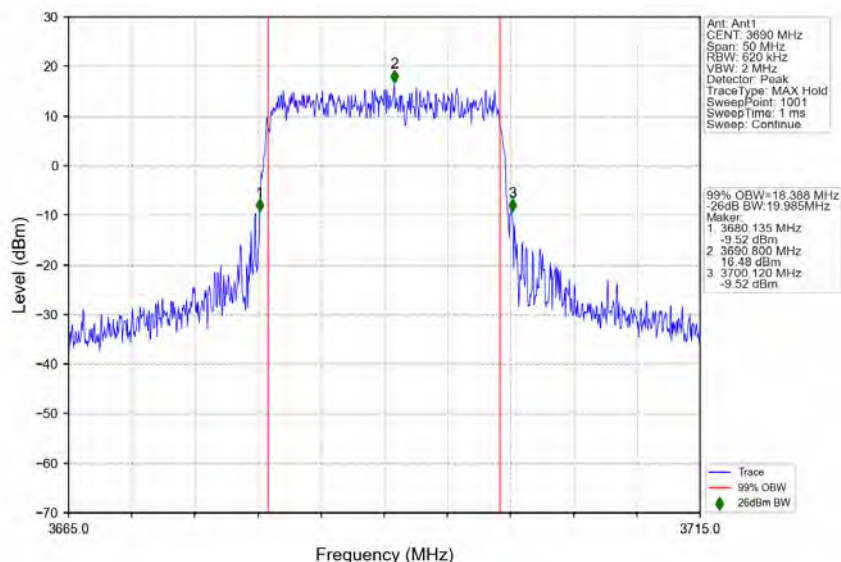
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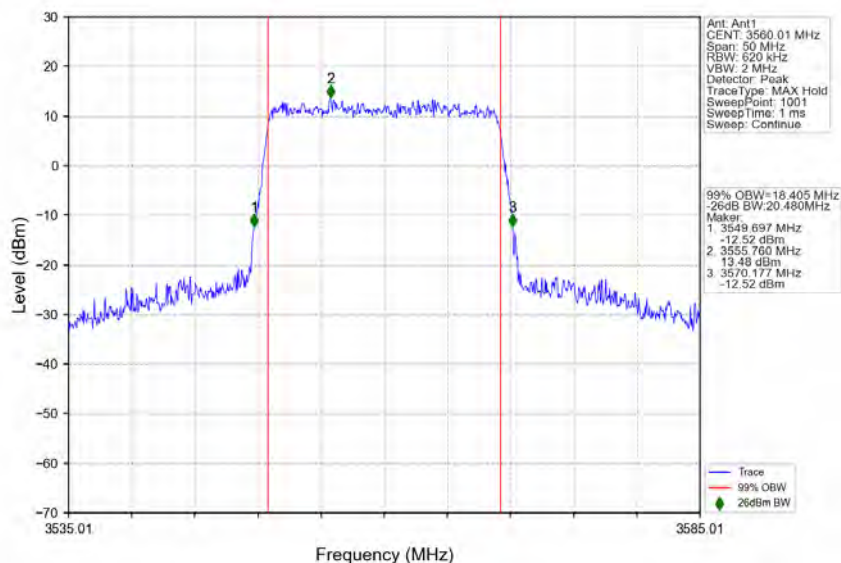
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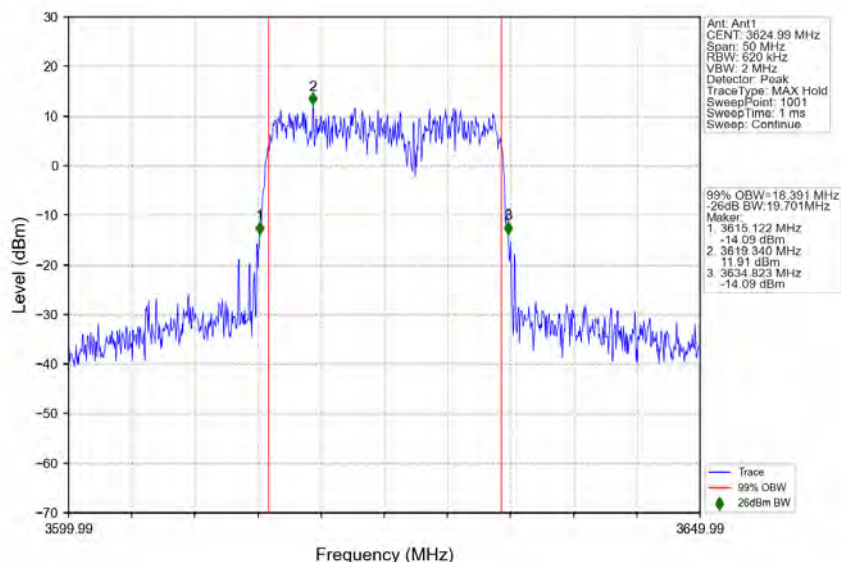
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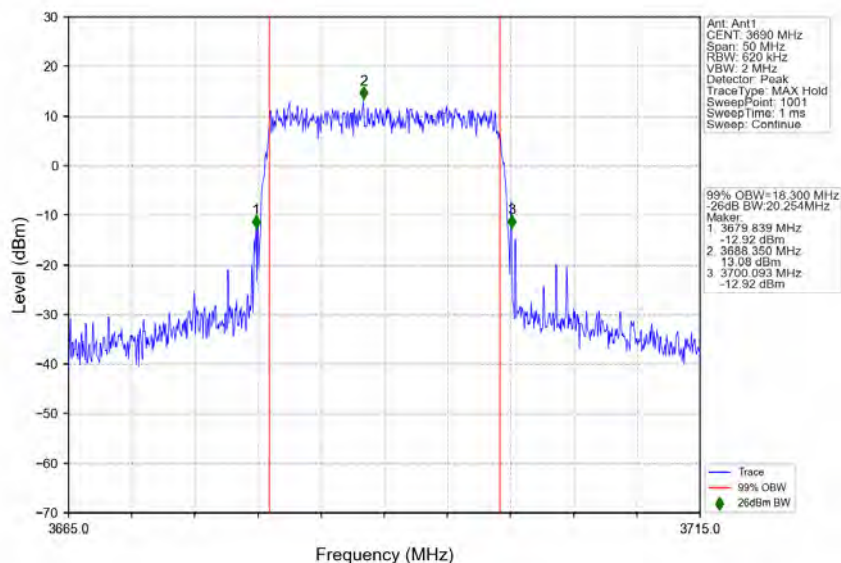
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4.3 30k_MIMO_40MHz_NTNV

4.3.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3570	Outer_Full	37.93	40.50	/	Pass
	3624.99	Outer_Full	38.18	40.55	/	Pass
	3679.98	Outer_Full	38.11	40.82	/	Pass
CP-OFDM 16 QAM	3570	Outer_Full	37.83	40.67	/	Pass
	3624.99	Outer_Full	38.06	40.33	/	Pass
	3679.98	Outer_Full	38.08	40.49	/	Pass
CP-OFDM 64 QAM	3570	Outer_Full	38.02	40.69	/	Pass
	3624.99	Outer_Full	37.96	40.68	/	Pass
	3679.98	Outer_Full	38.16	40.55	/	Pass
CP-OFDM 256 QAM	3570	Outer_Full	37.89	40.67	/	Pass
	3624.99	Outer_Full	38.30	40.60	/	Pass
	3679.98	Outer_Full	37.99	40.22	/	Pass



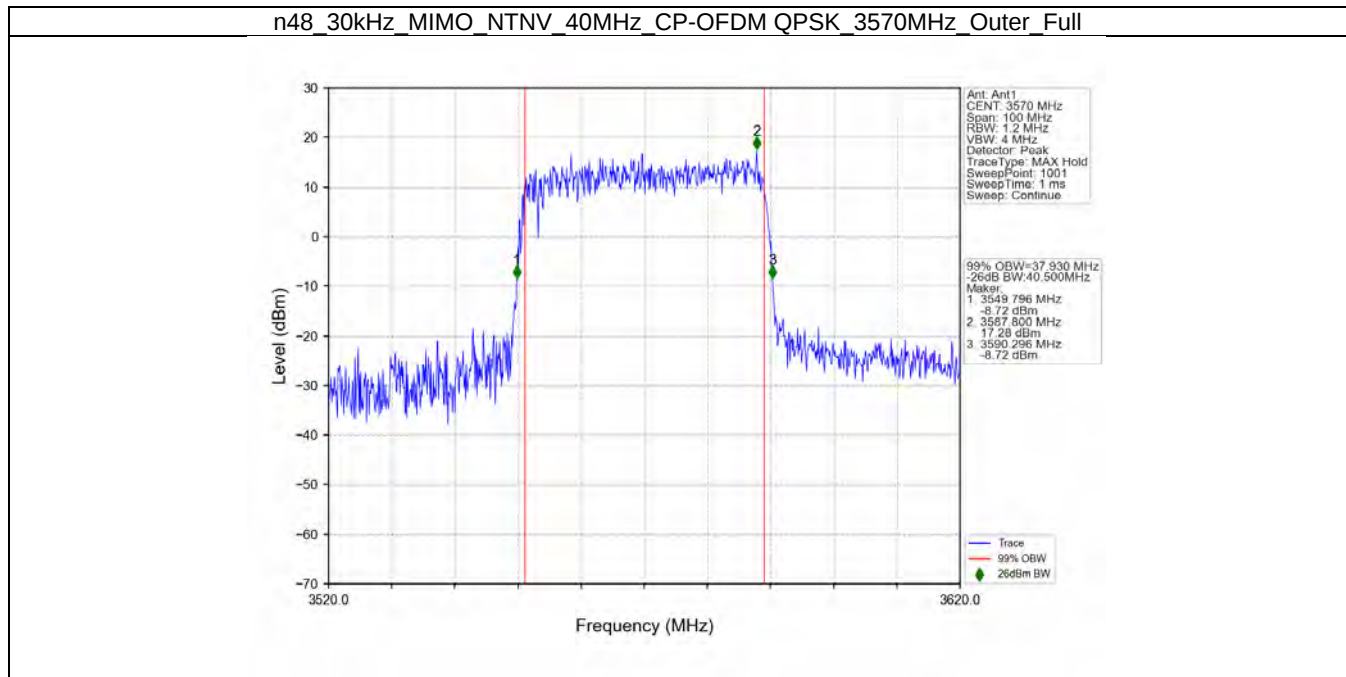
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4.3.2 Test Graph



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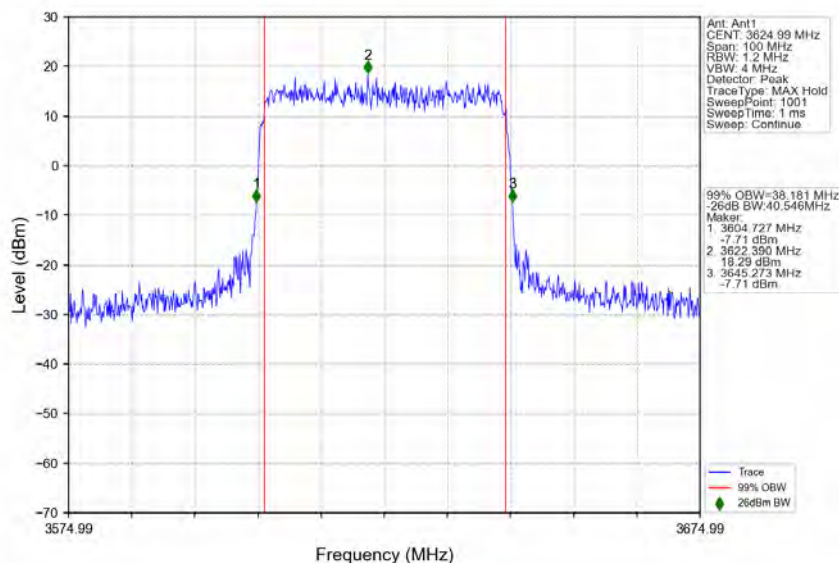
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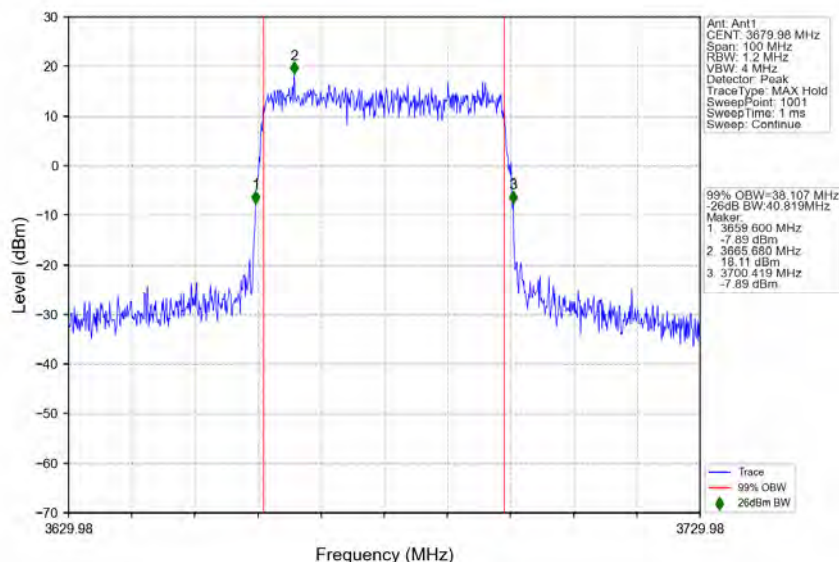
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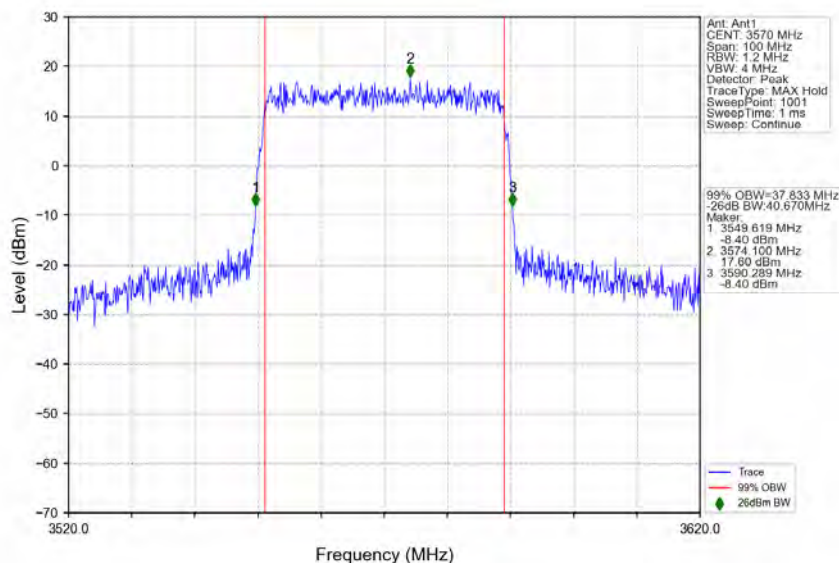
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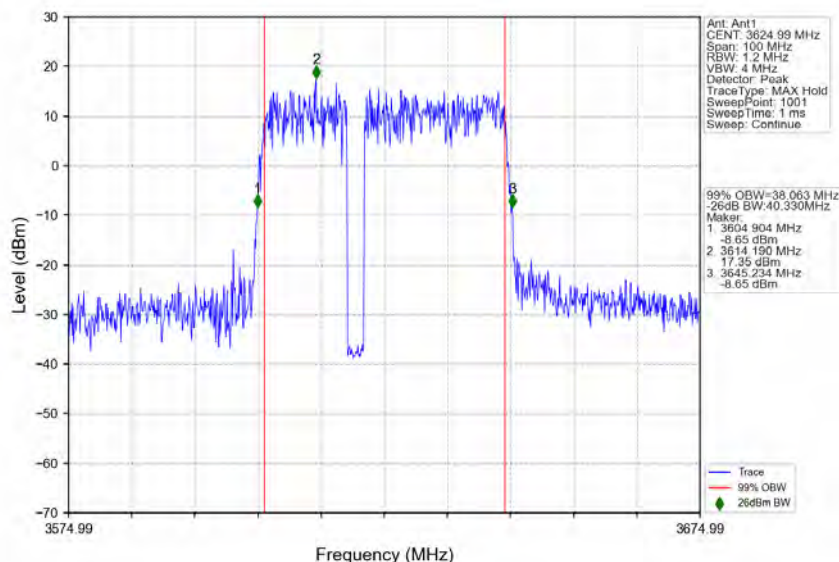
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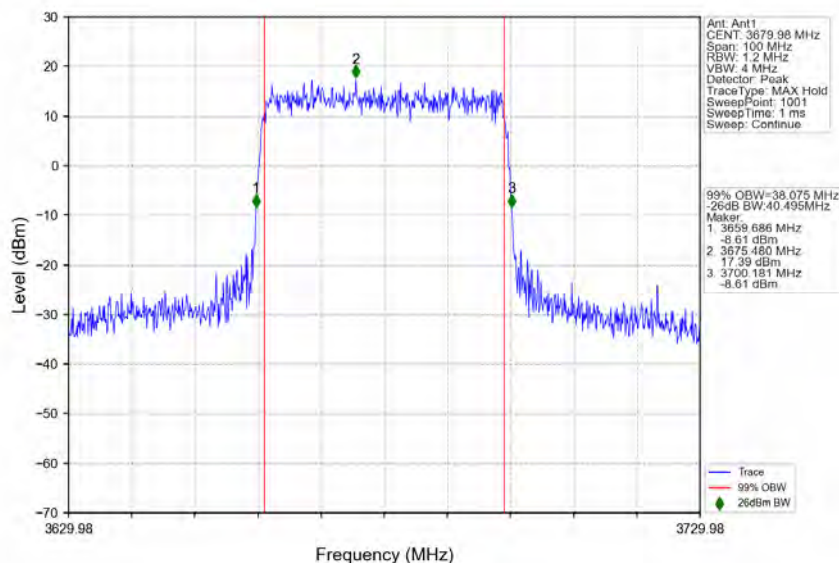
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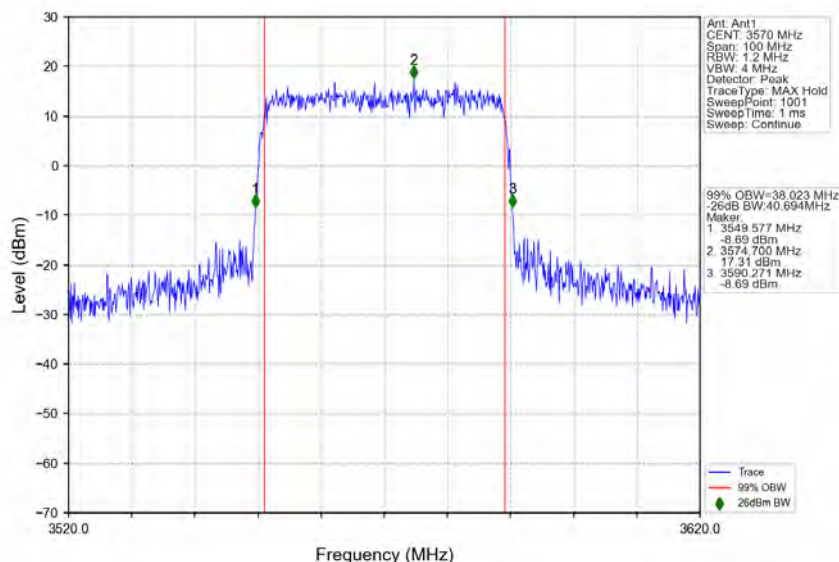
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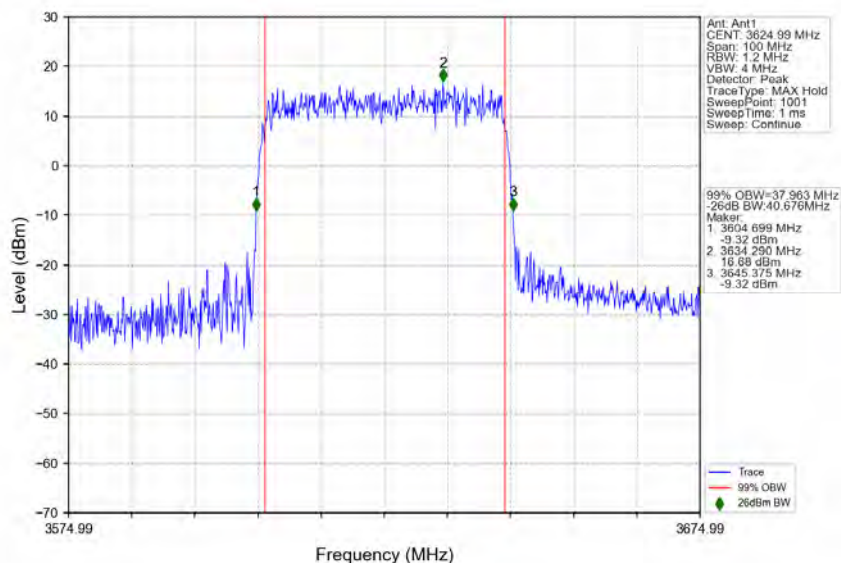
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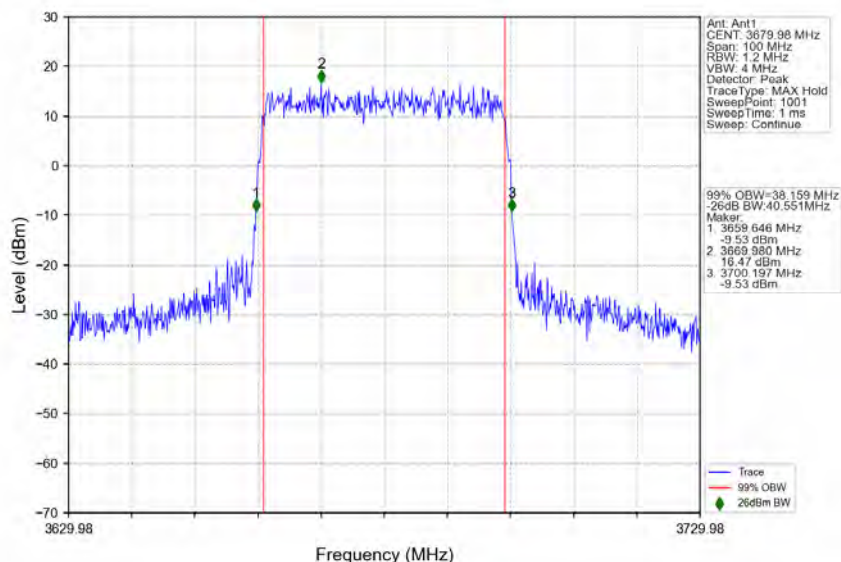
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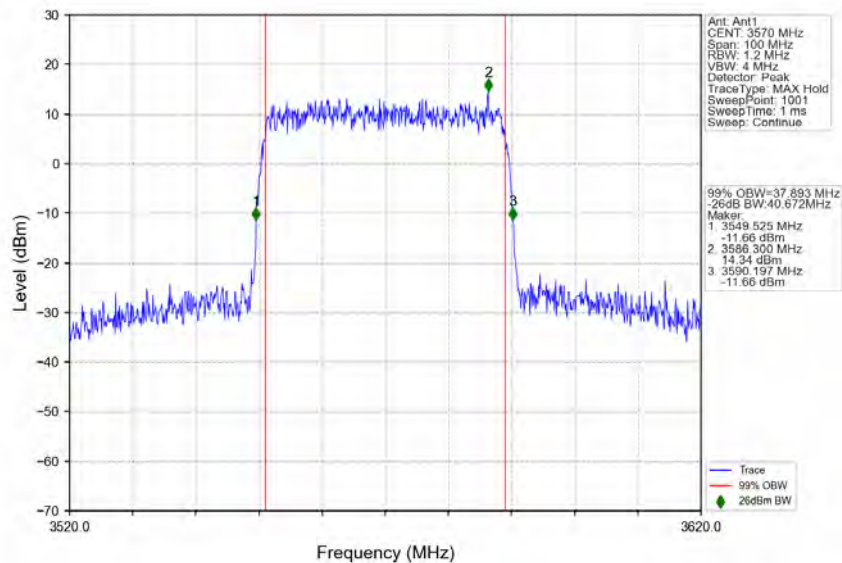
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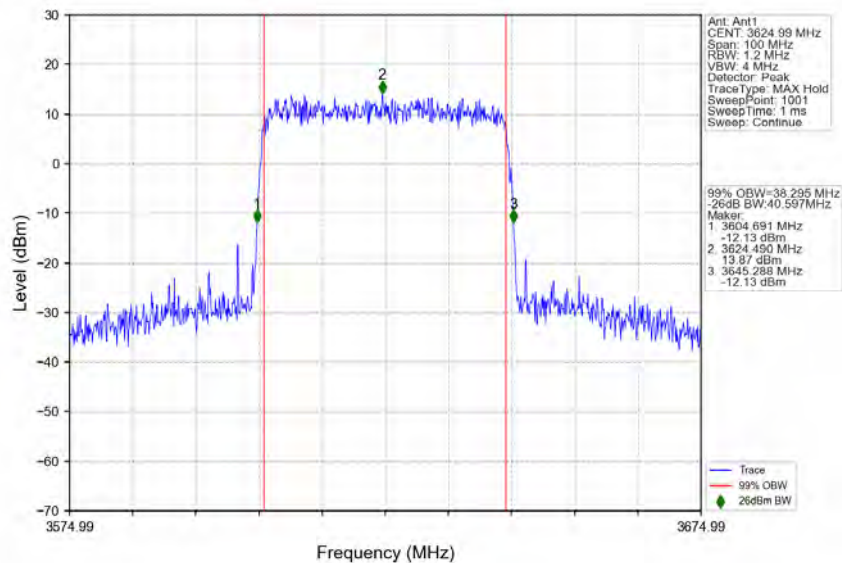
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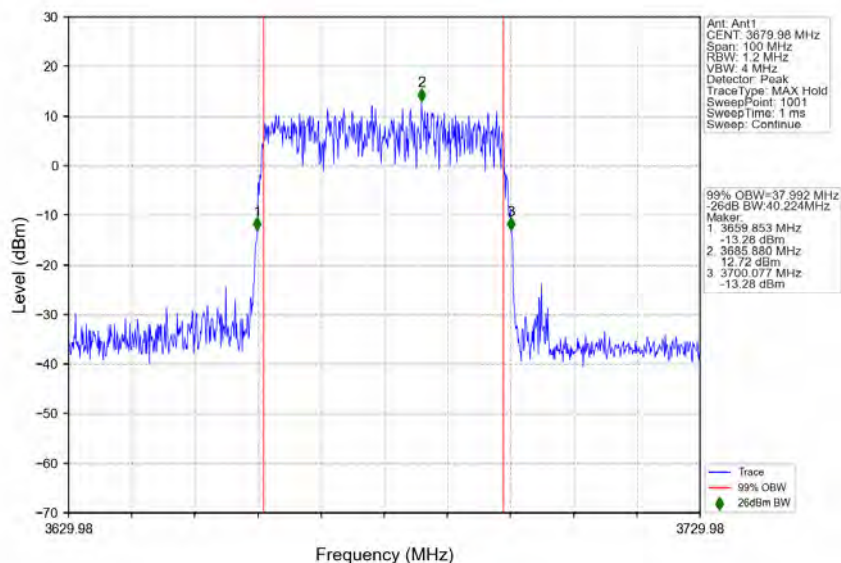
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5. Peak-Average Ratio

5.1 30k_MIMO_10MHz_NTNV

5.1.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Outer Full	11.67	/	/	<=13	Pass
	3624.99	Outer Full	11.67	/	/	<=13	Pass
	3694.98	Outer Full	11.65	/	/	<=13	Pass
CP-OFDM 16 QAM	3555	Outer Full	11.54	/	/	<=13	Pass
	3624.99	Outer Full	11.44	/	/	<=13	Pass
	3694.98	Outer Full	11.45	/	/	<=13	Pass
CP-OFDM 64 QAM	3555	Outer Full	11.30	/	/	<=13	Pass
	3624.99	Outer Full	11.46	/	/	<=13	Pass
	3694.98	Outer Full	11.28	/	/	<=13	Pass
CP-OFDM 256 QAM	3555	Outer Full	11.70	/	/	<=13	Pass
	3624.99	Outer Full	11.74	/	/	<=13	Pass
	3694.98	Outer Full	11.68	/	/	<=13	Pass



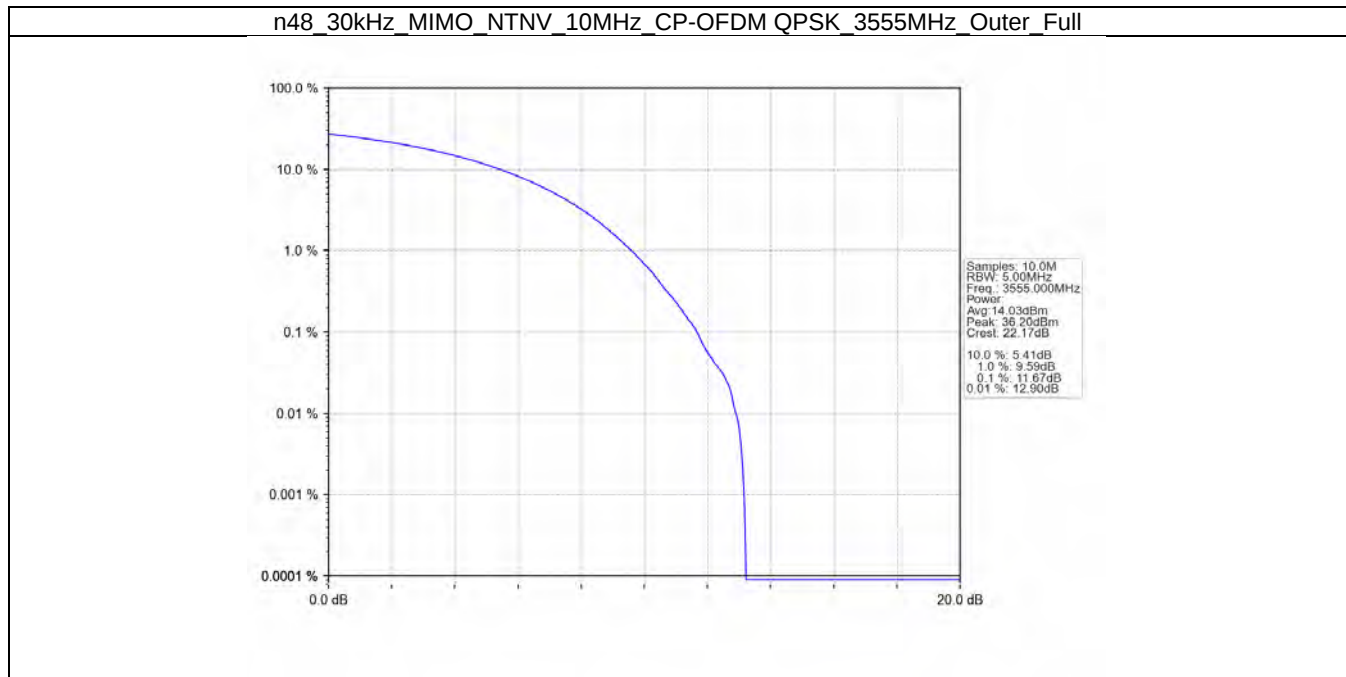
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5.1.2 Test Graph



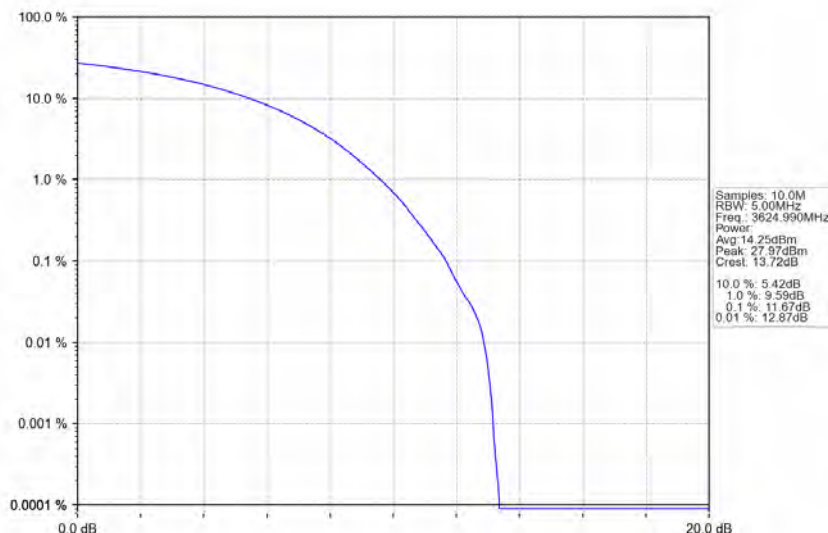
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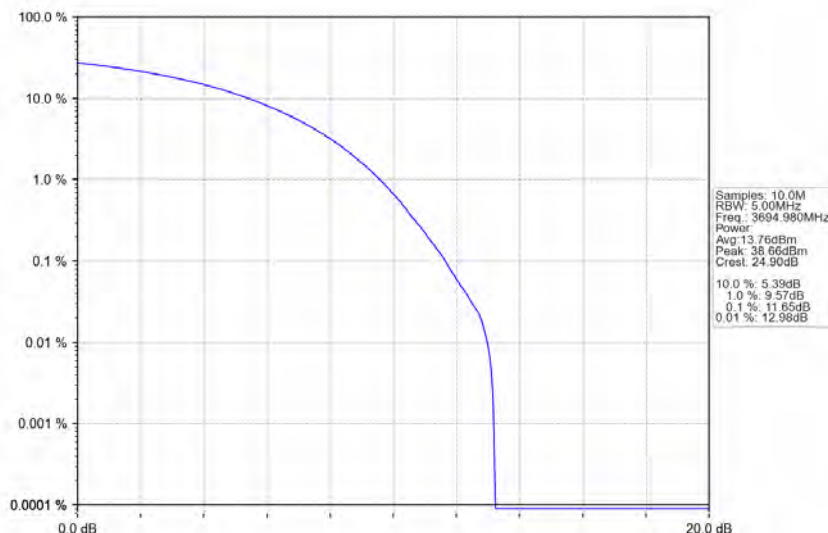
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Outer_Full

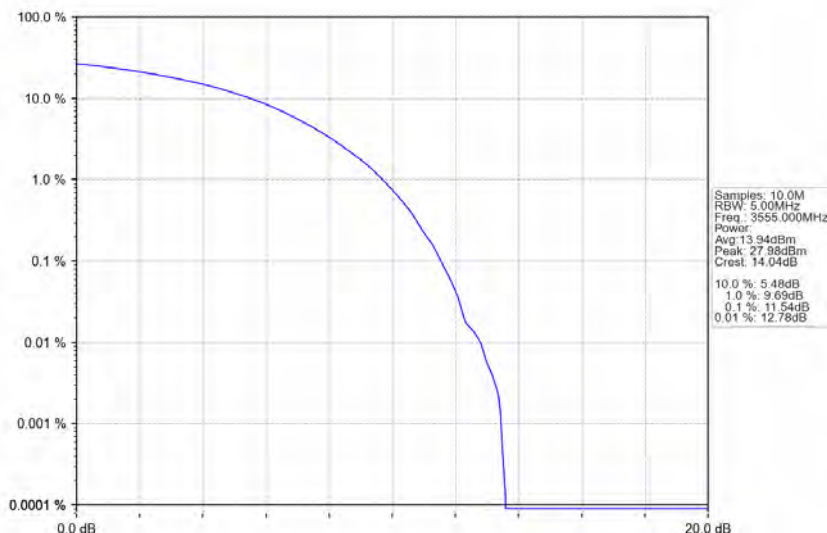


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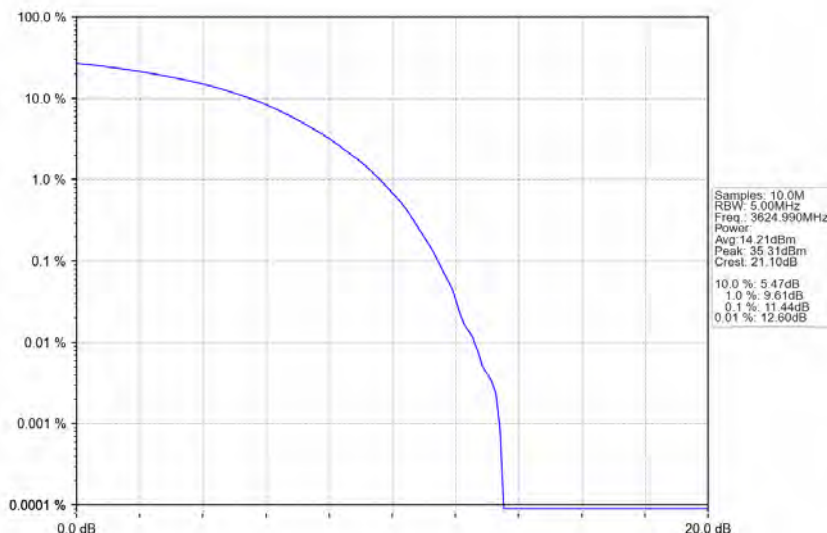
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3555MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



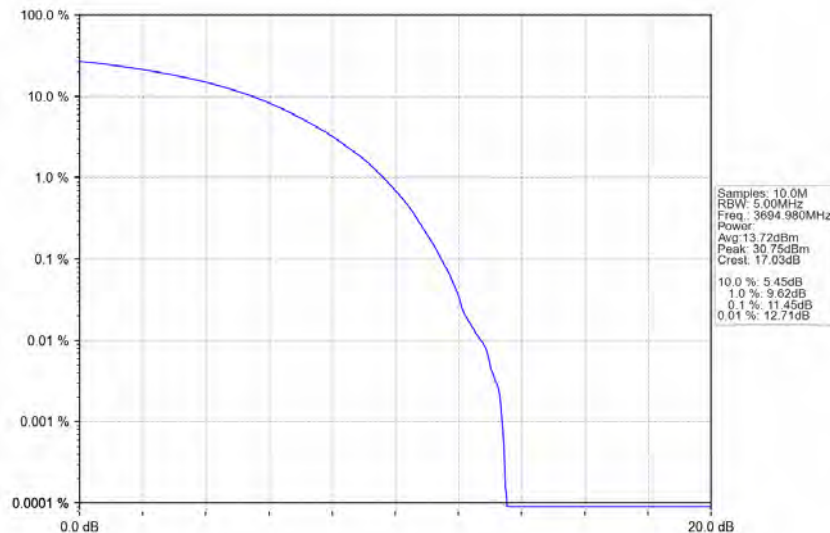
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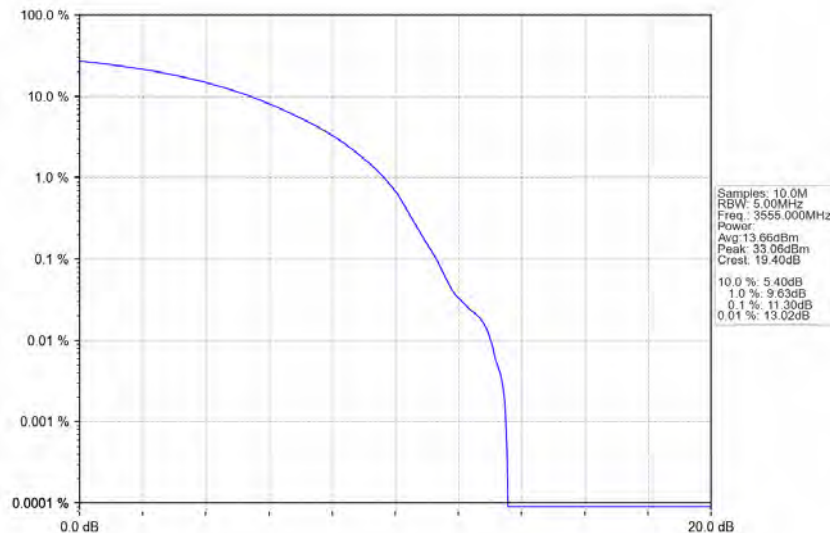
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM 3694.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM 3555MHz_Outer_Full



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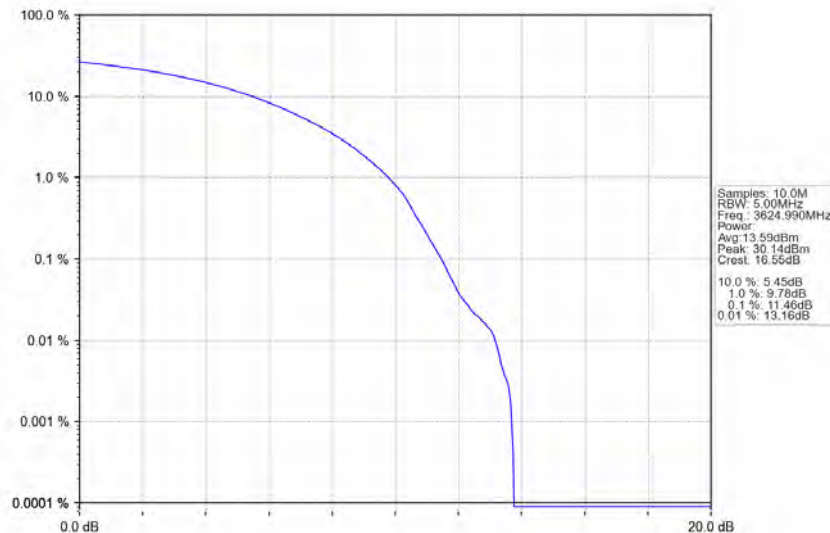
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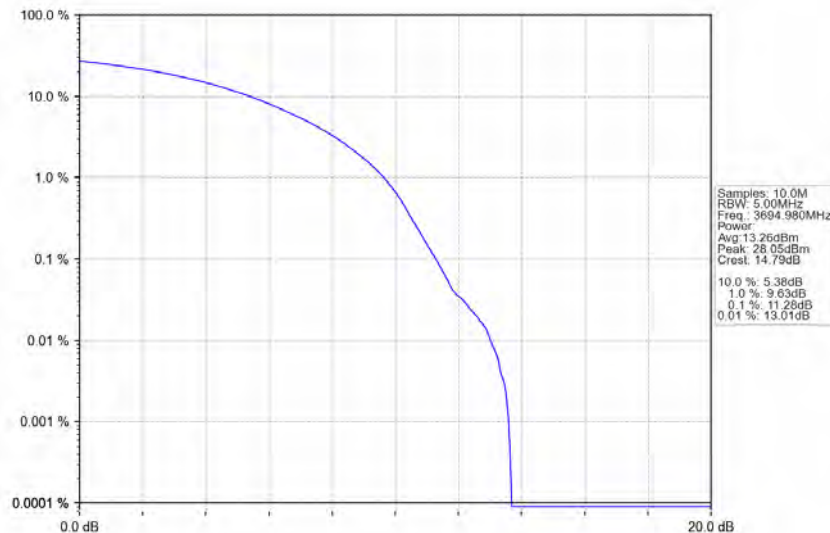
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_64_QAM_3694.98MHz_Outer_Full



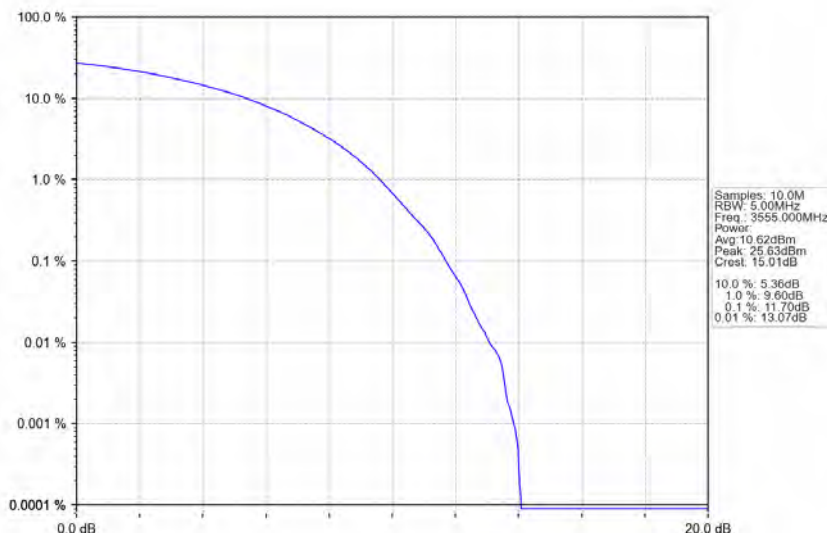
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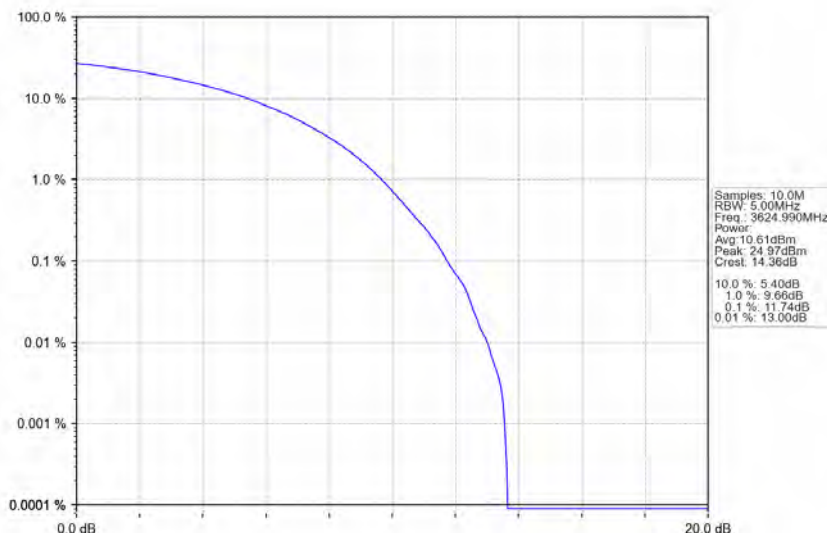
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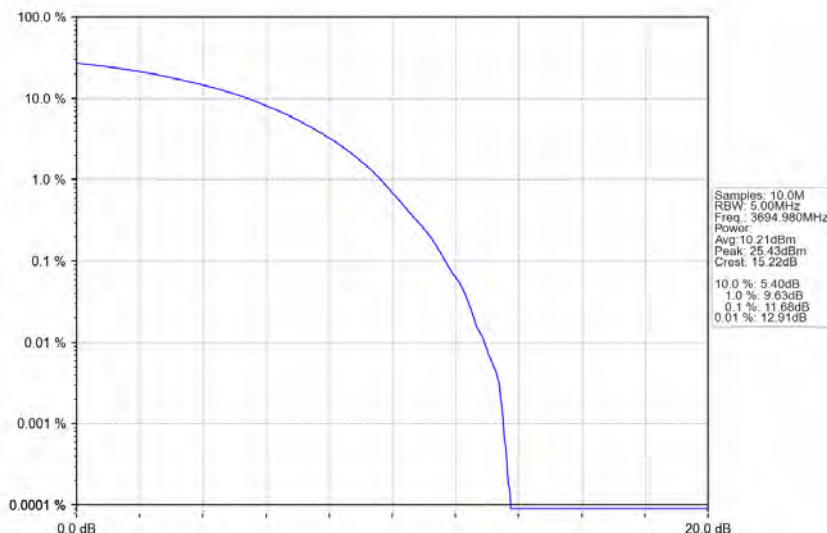
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5.2 30k_MIMO_20MHz_NTNV

5.2.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3560.01	Outer_Full	11.58	/	/	<=13	Pass
	3624.99	Outer_Full	11.59	/	/	<=13	Pass
	3690	Outer_Full	11.55	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	11.56	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3690	Outer_Full	11.51	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	11.35	/	/	<=13	Pass
	3624.99	Outer_Full	11.30	/	/	<=13	Pass
	3690	Outer_Full	11.40	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	12.15	/	/	<=13	Pass
	3624.99	Outer_Full	12.07	/	/	<=13	Pass
	3690	Outer_Full	12.17	/	/	<=13	Pass



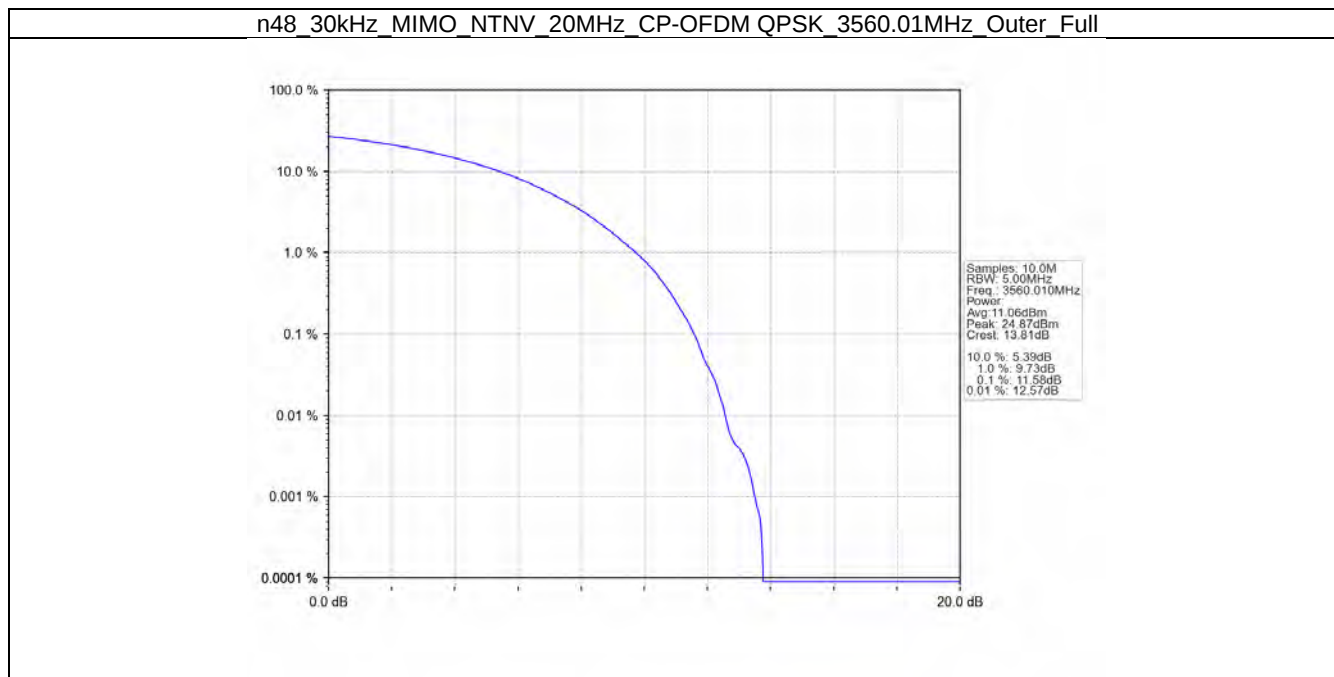
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5.2.2 Test Graph



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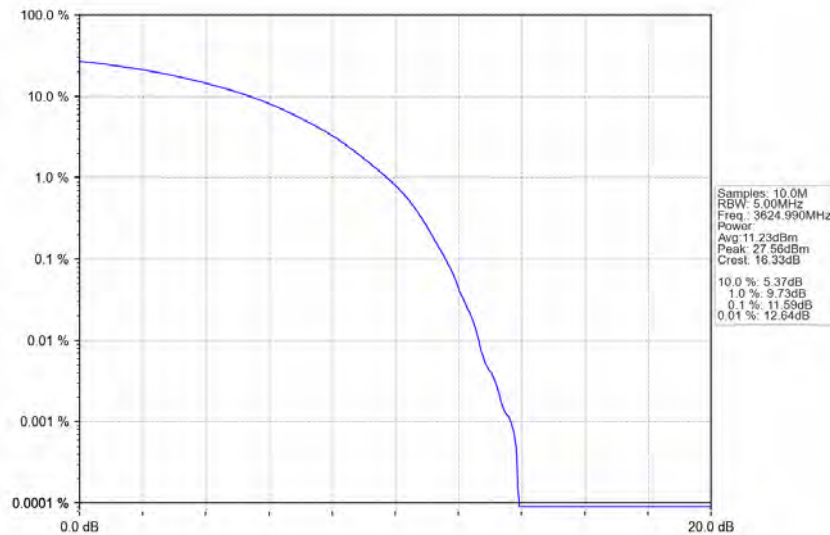
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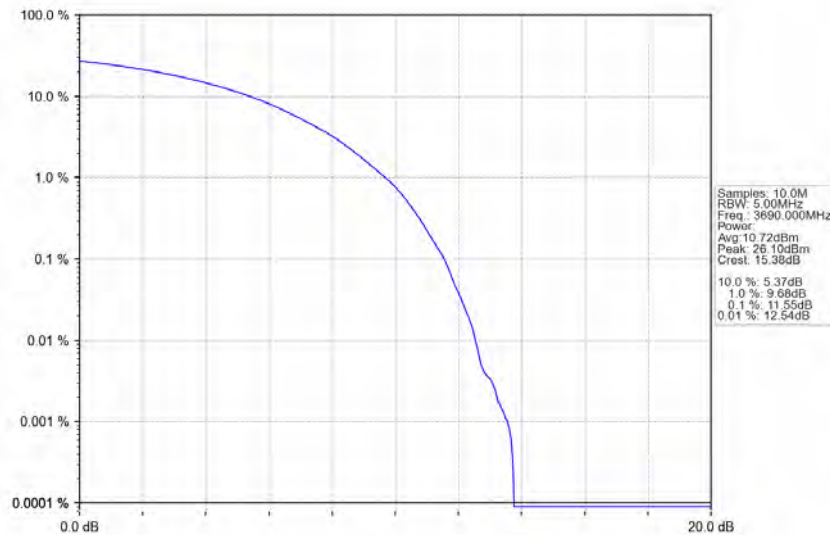
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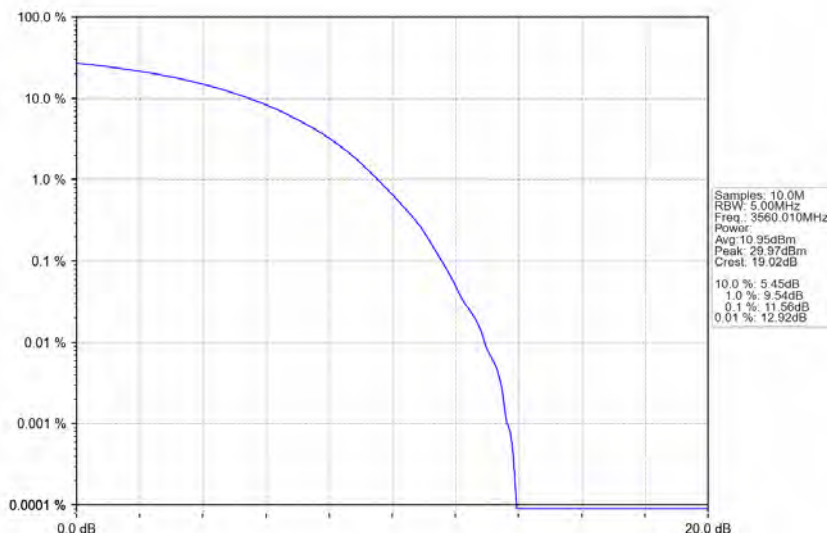
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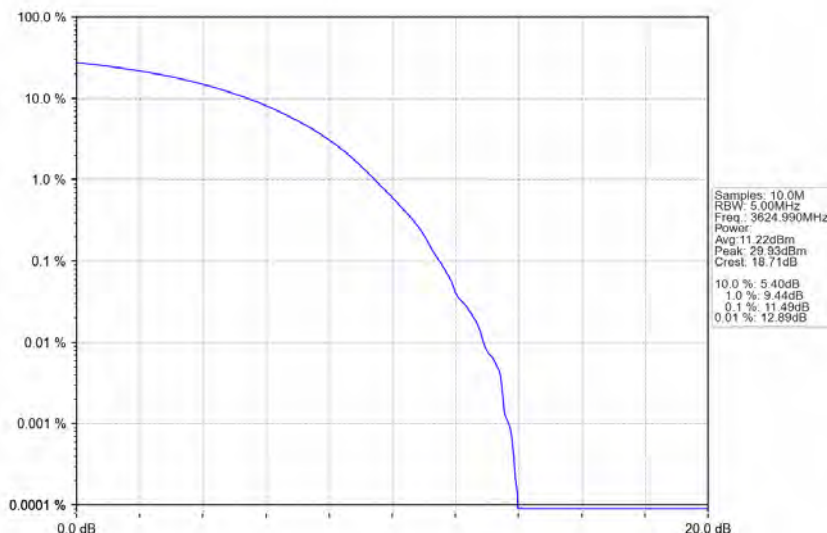
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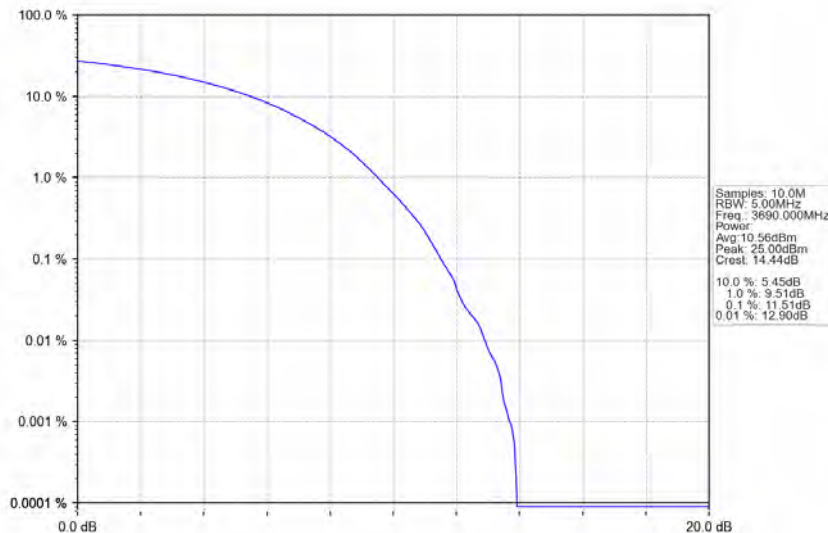
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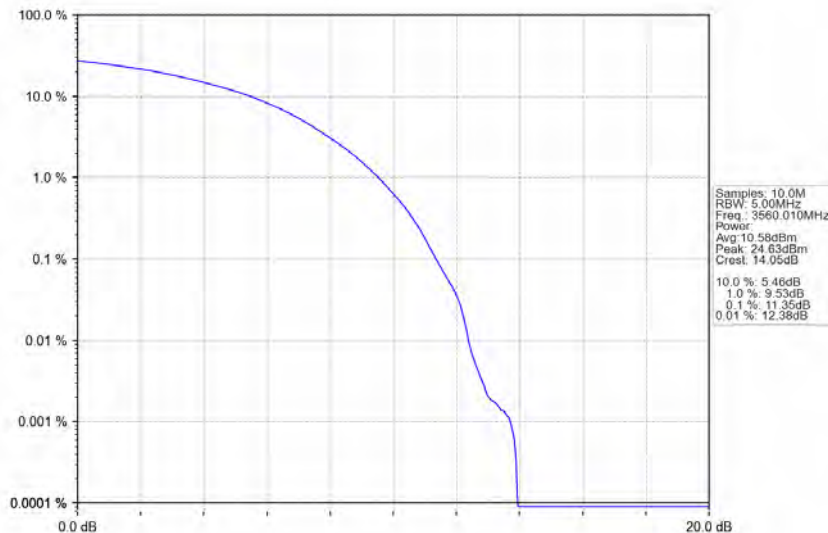
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 16 QAM 3690MHz_Outer_Full



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM 3560.01MHz_Outer_Full



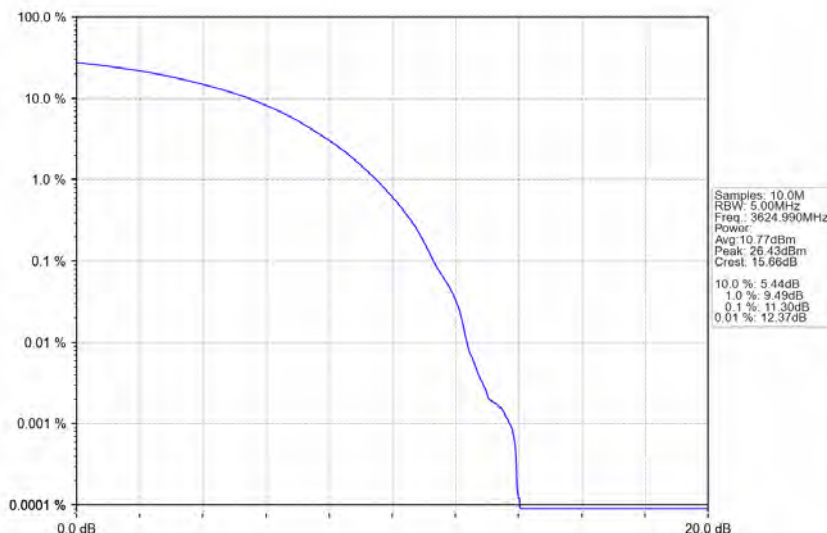
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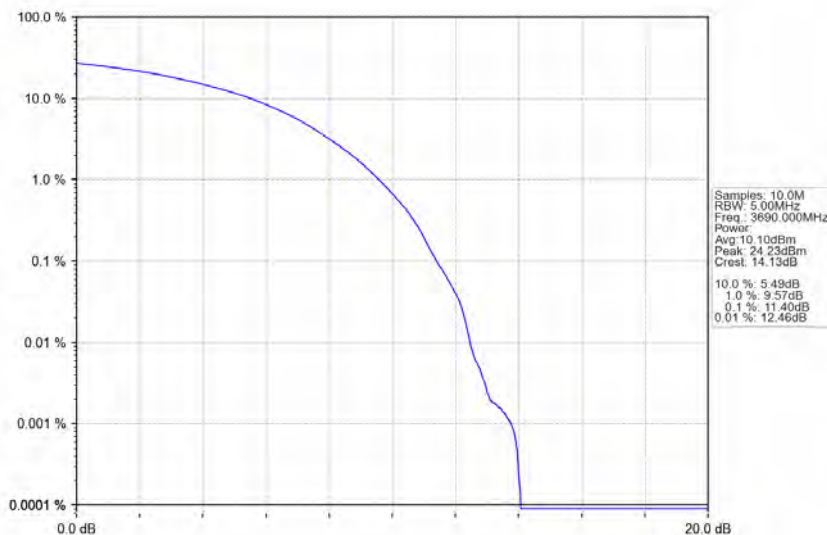
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM 3624.99MHz_Outer_Full



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM 3690MHz_Outer_Full



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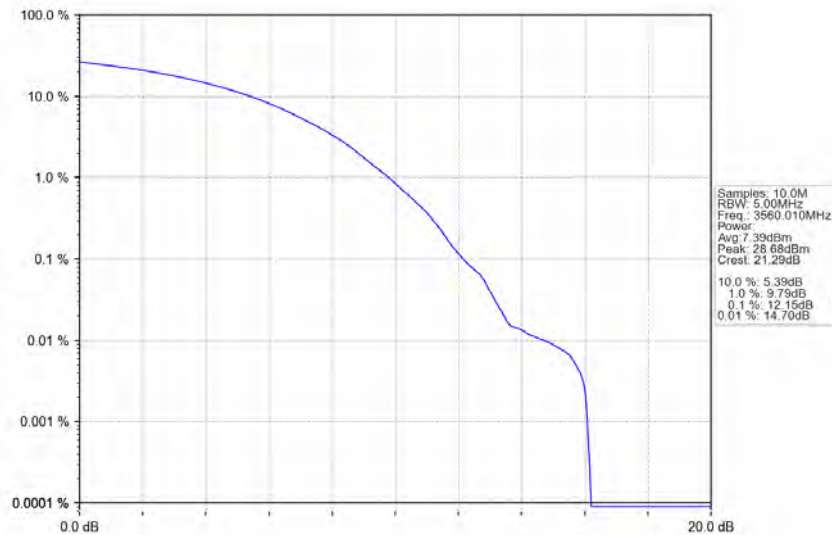
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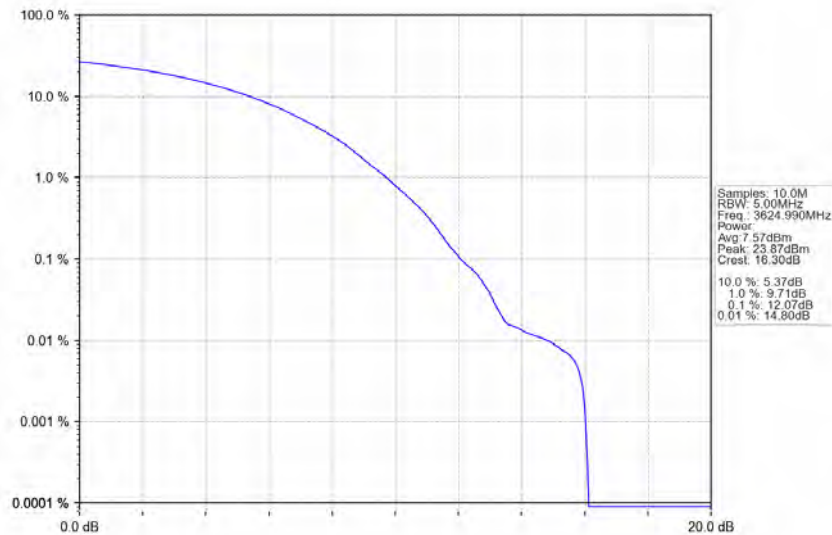
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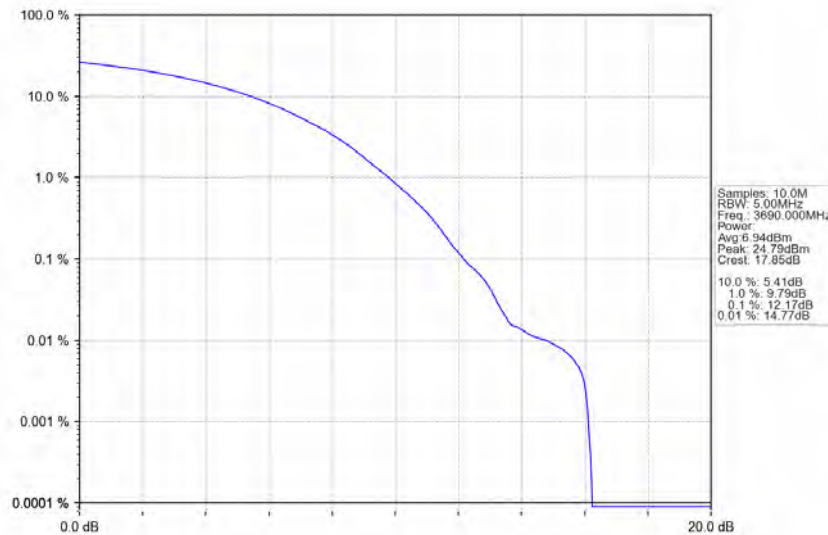
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5.3 30k_MIMO_40MHz_NTNV

5.3.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Outer_Full	11.48	/	/	<=13	Pass
	3624.99	Outer_Full	11.53	/	/	<=13	Pass
	3679.98	Outer_Full	11.49	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.42	/	/	<=13	Pass
	3624.99	Outer_Full	11.54	/	/	<=13	Pass
	3679.98	Outer_Full	11.50	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.63	/	/	<=13	Pass
	3624.99	Outer_Full	11.57	/	/	<=13	Pass
	3679.98	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.80	/	/	<=13	Pass
	3624.99	Outer_Full	11.76	/	/	<=13	Pass
	3679.98	Outer_Full	11.80	/	/	<=13	Pass



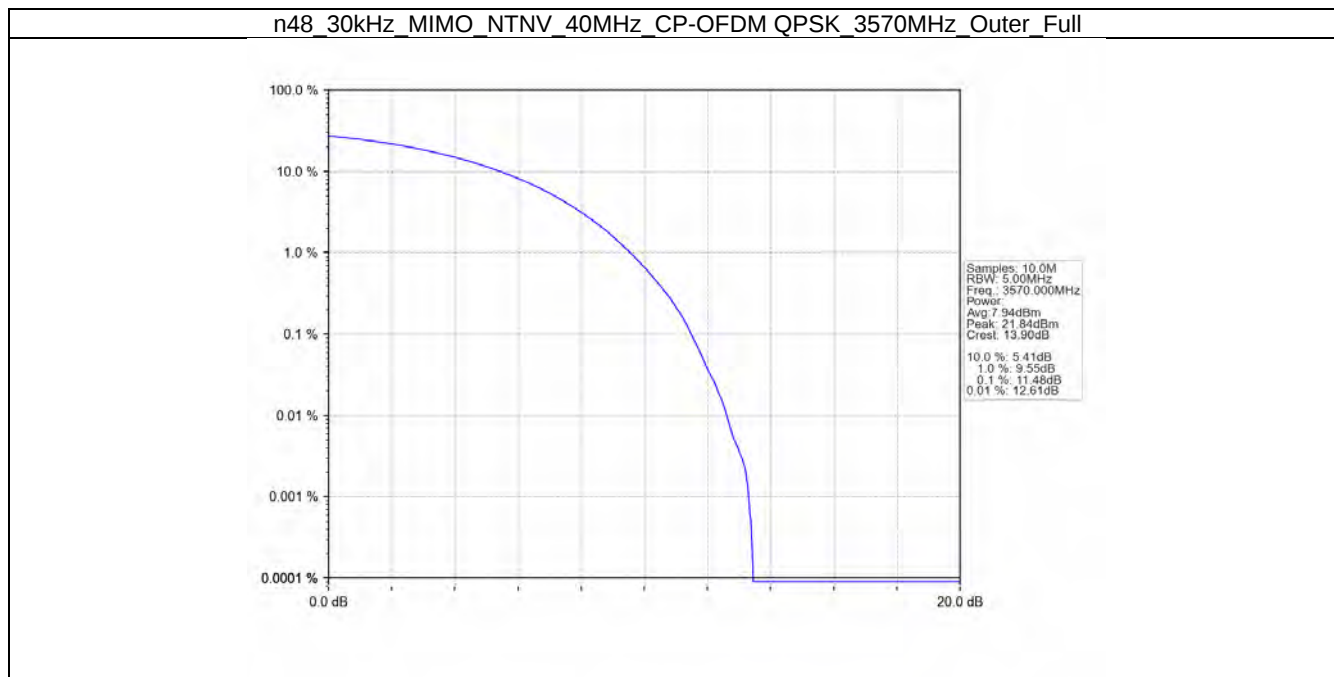
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5.3.2 Test Graph



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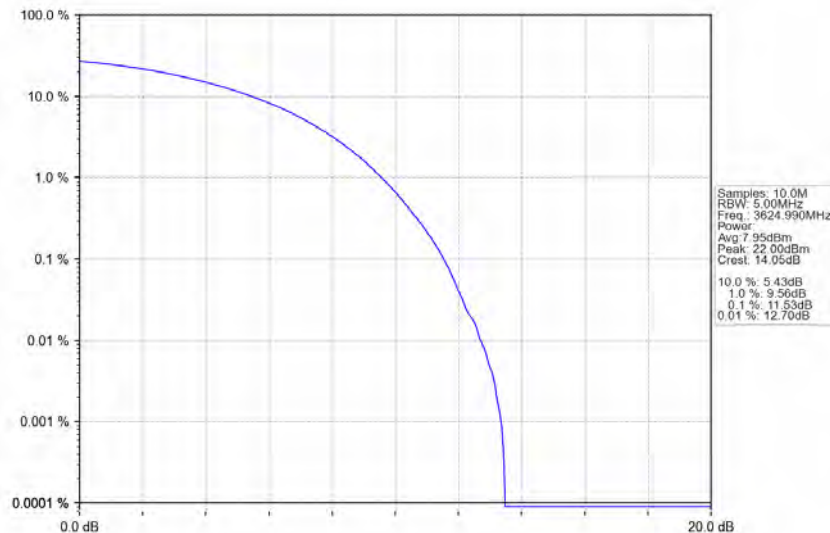
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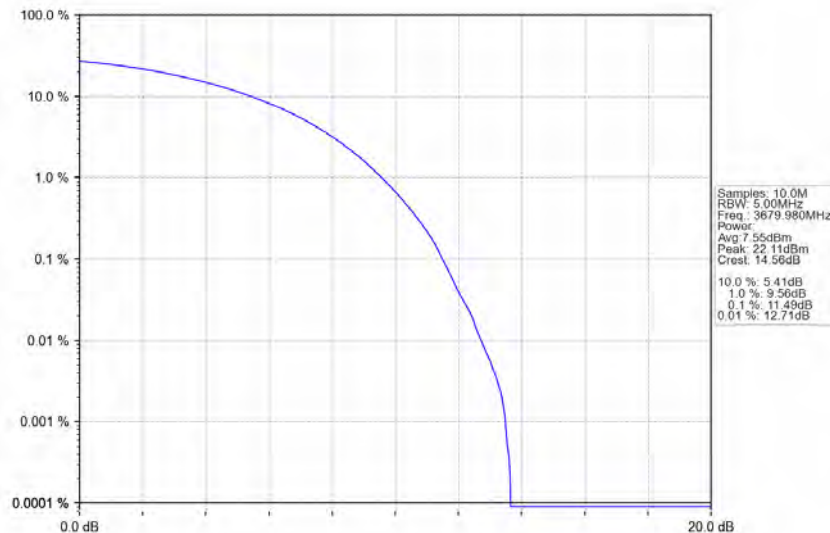
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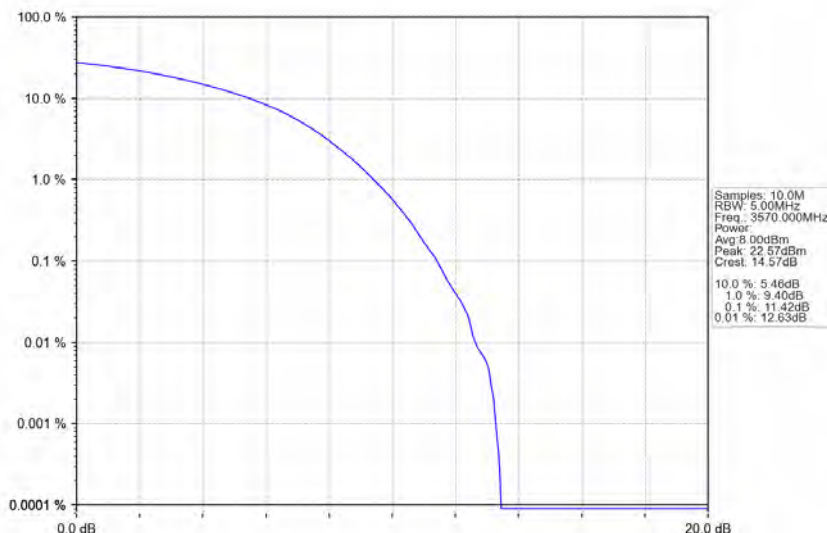
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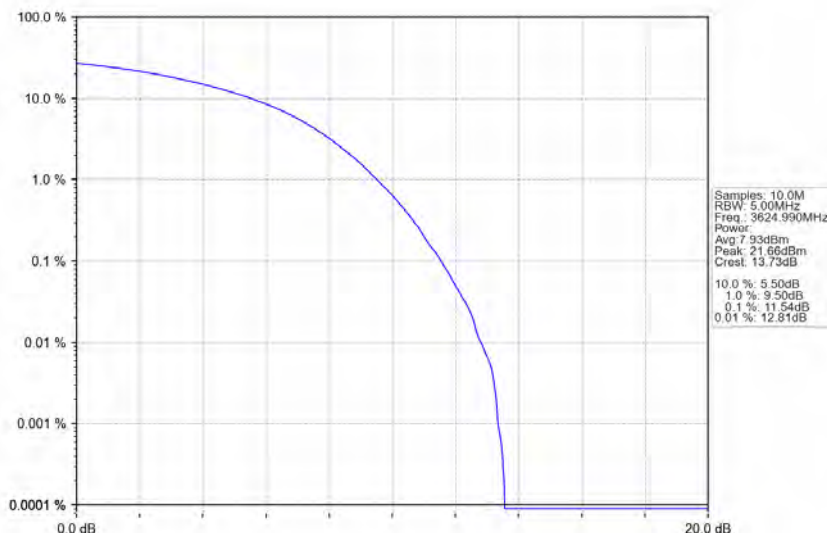
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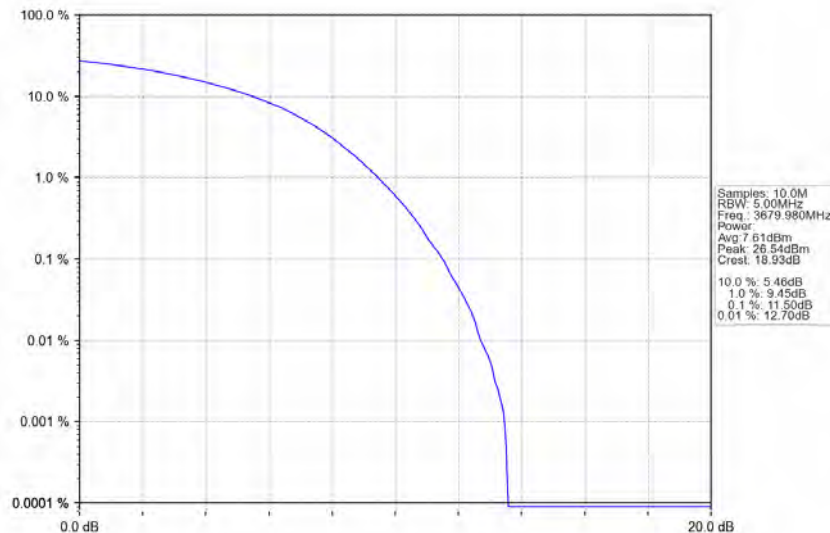
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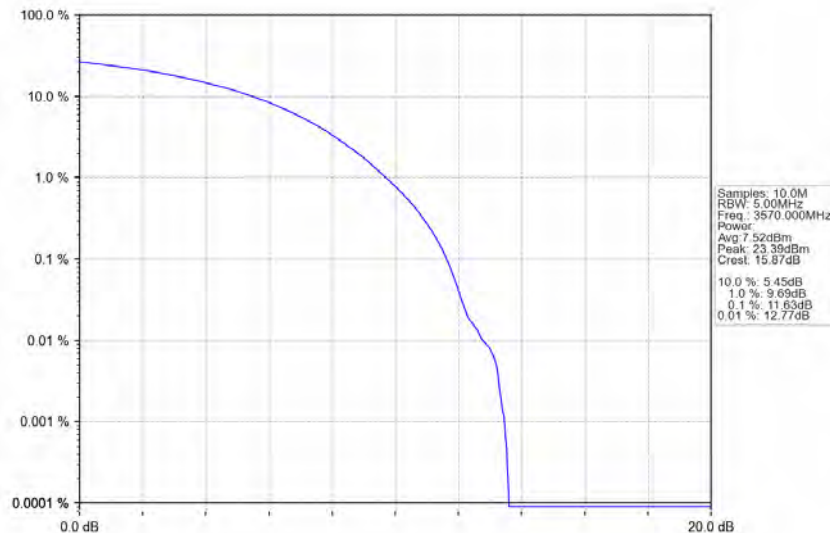
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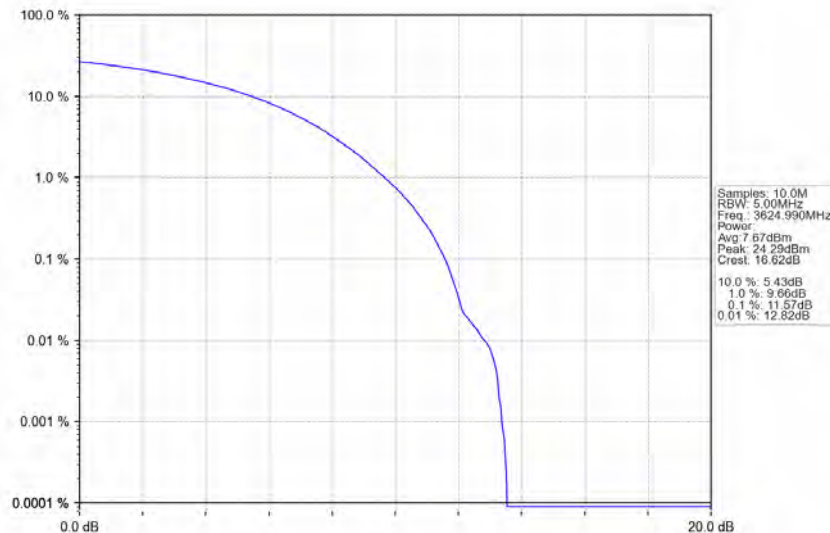
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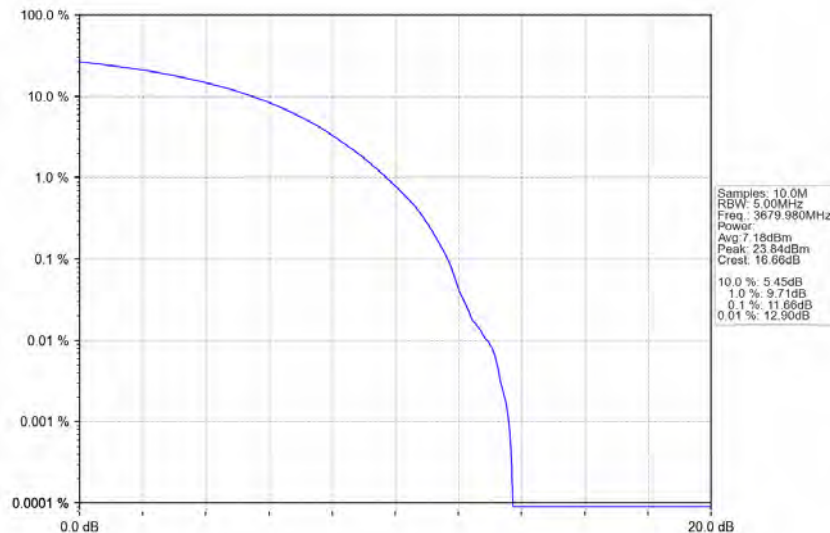
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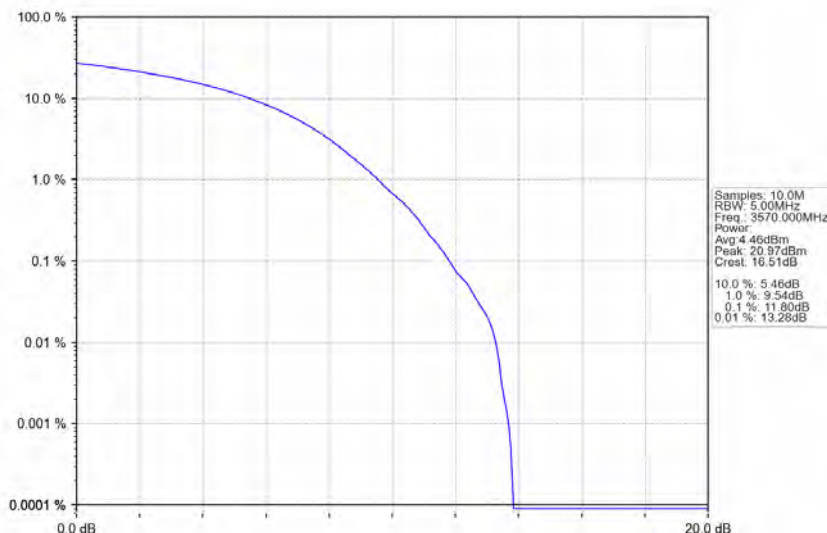
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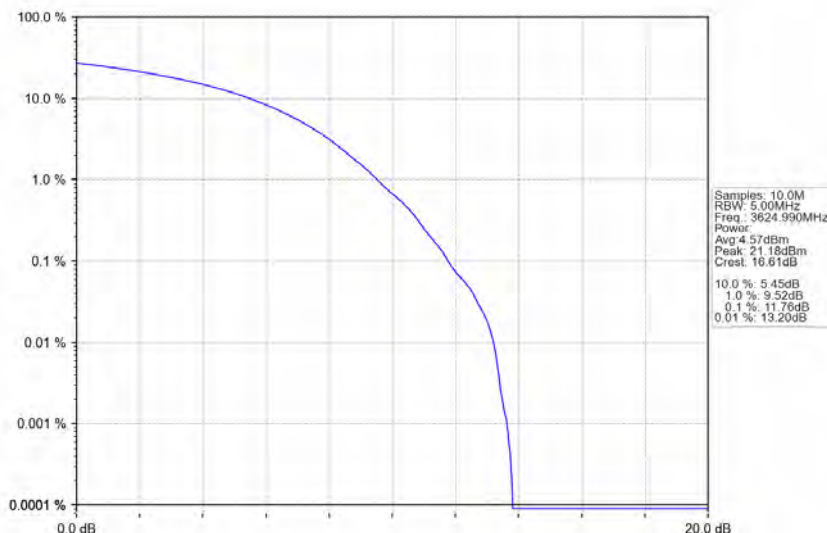
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