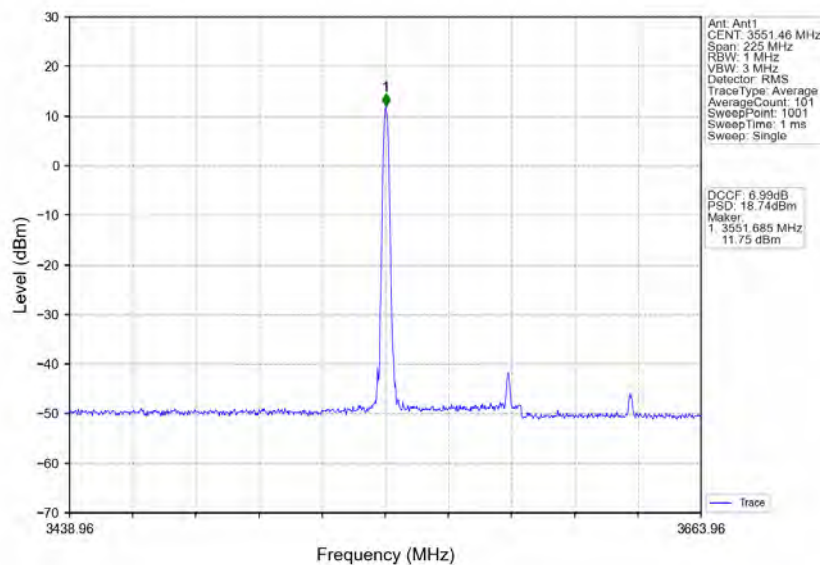
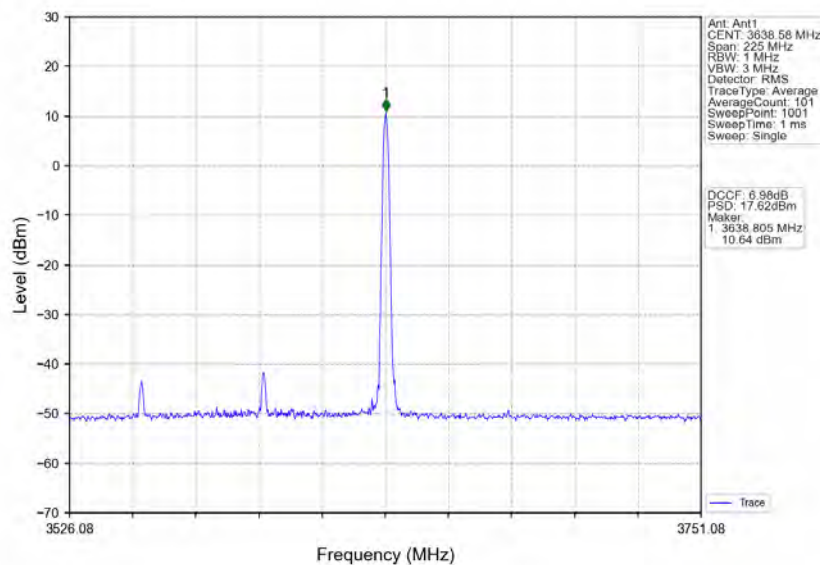


n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_QPSK_3595.02MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_QPSK_3595.02MHz_Inner_1RB_Right



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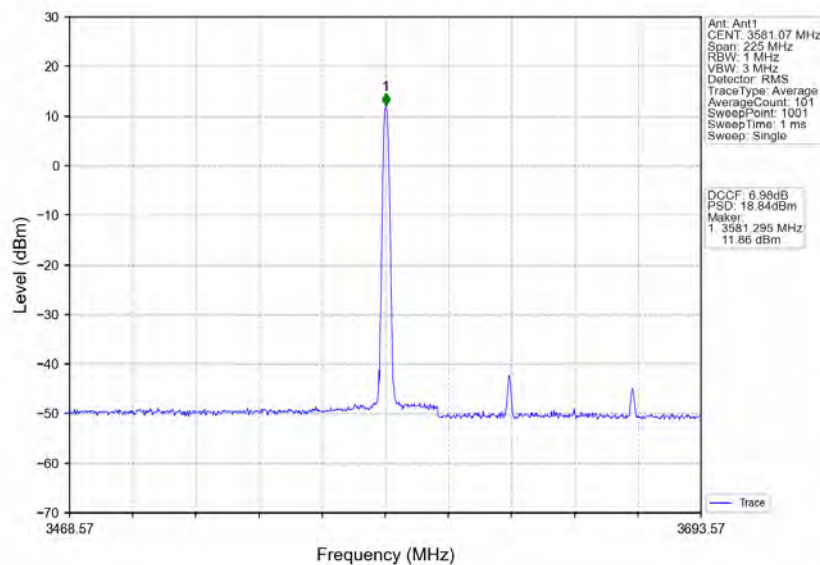
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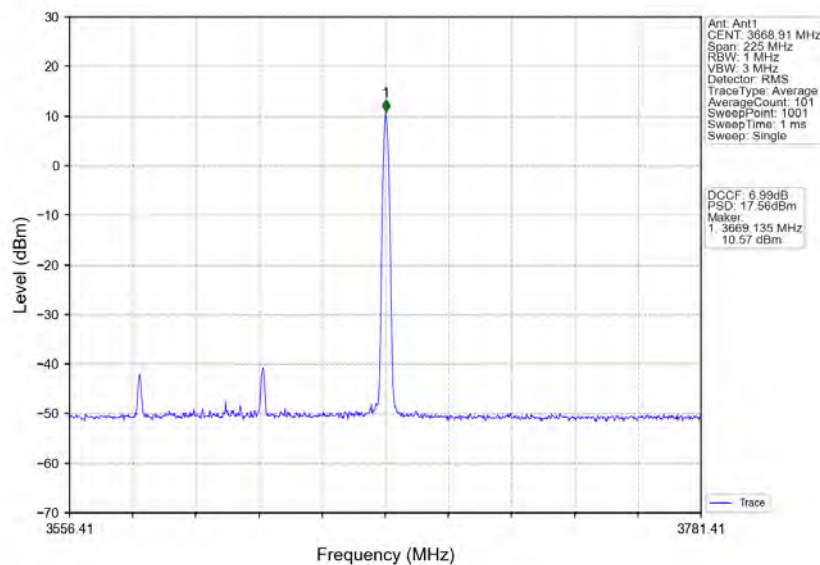
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_QPSK_3624.99MHz_Edge_1RB_Right



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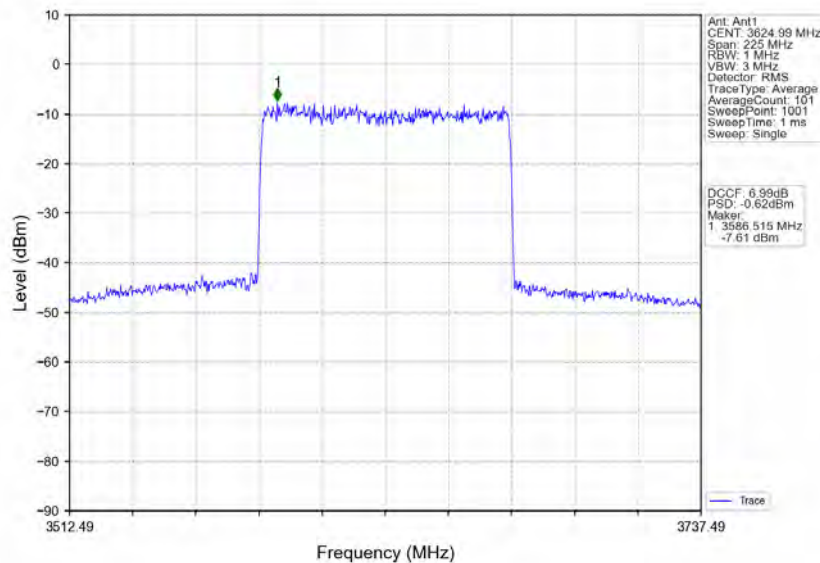
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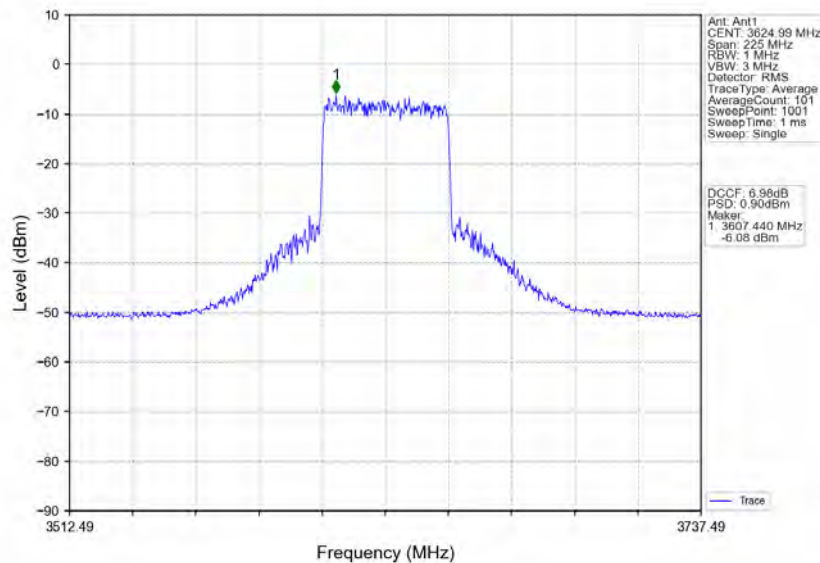
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM QPSK_3624.99MHz_Inner_Full



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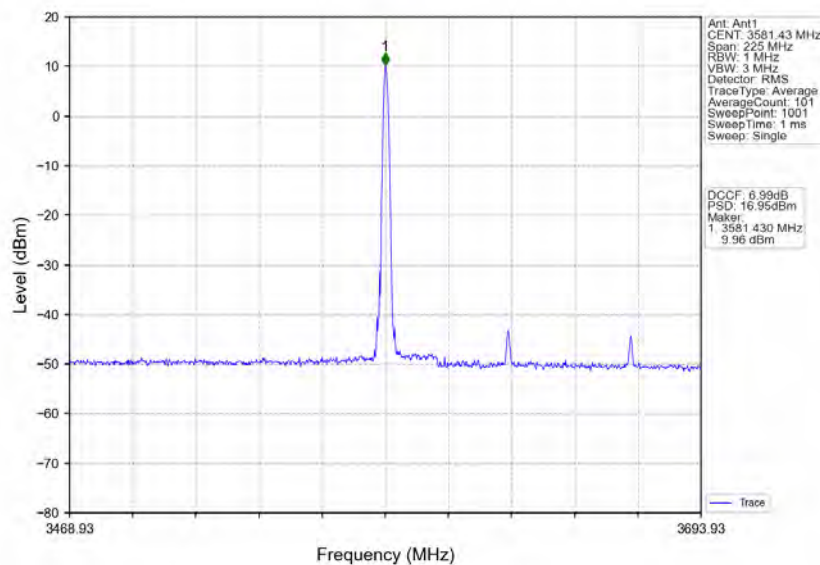
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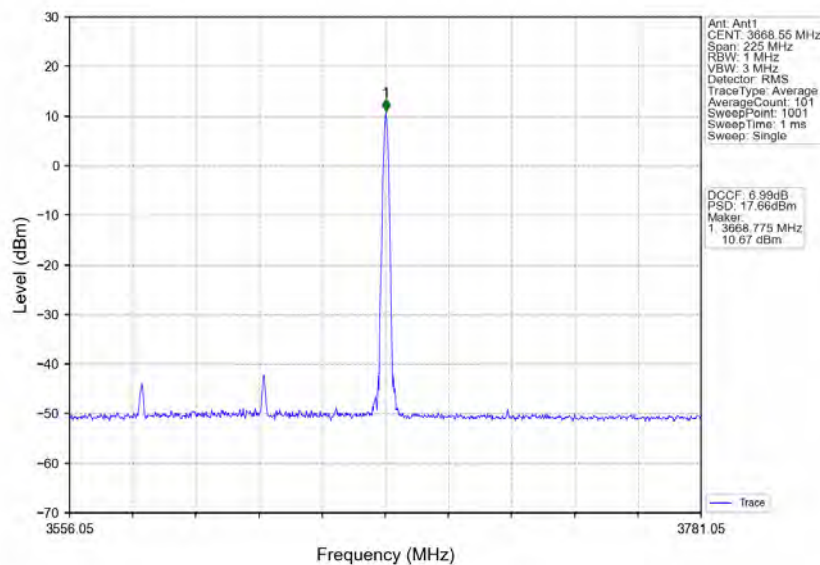
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_QPSK_3624.99MHz_Inner_1RB_Left



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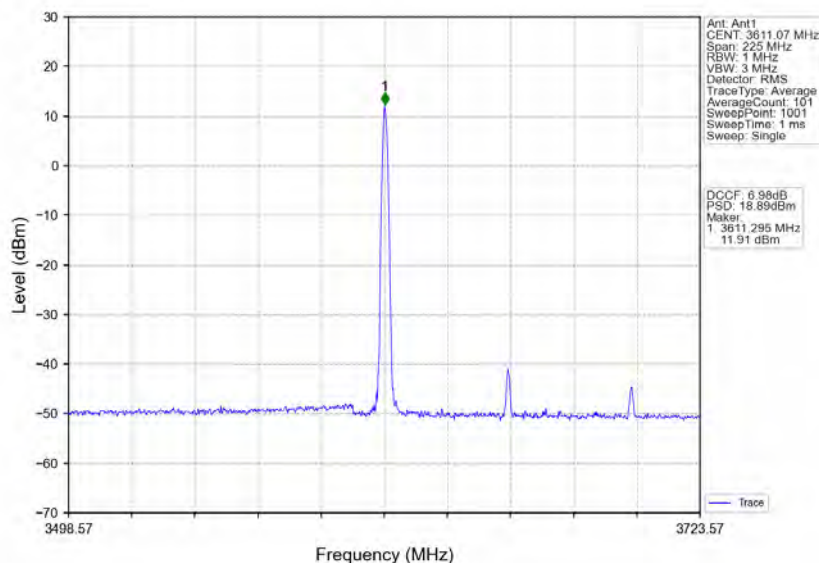
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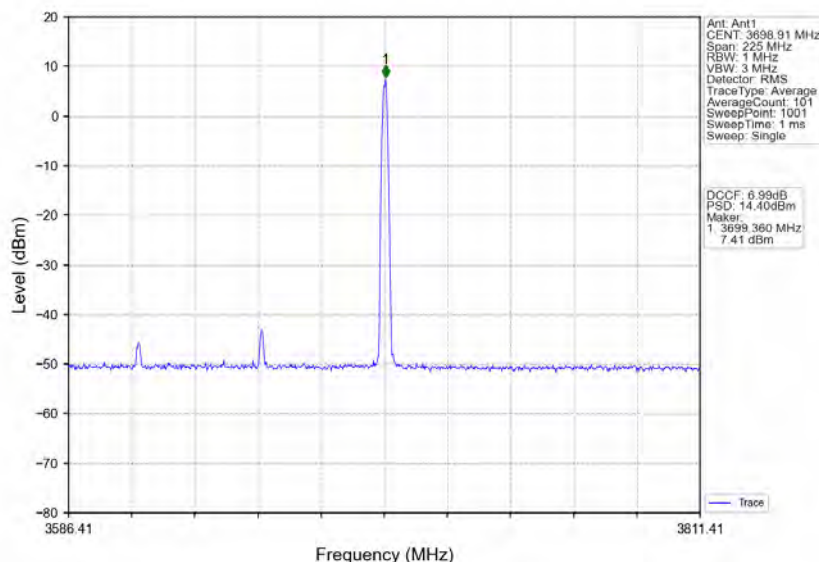
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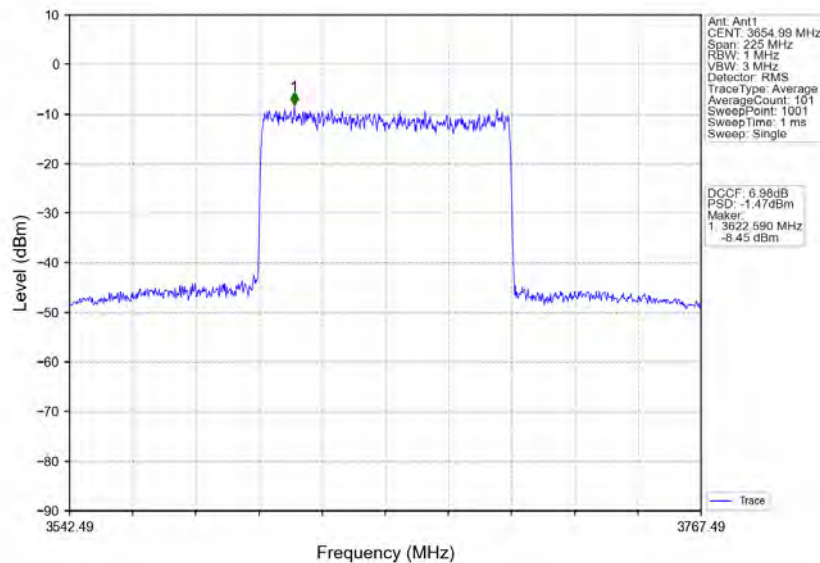
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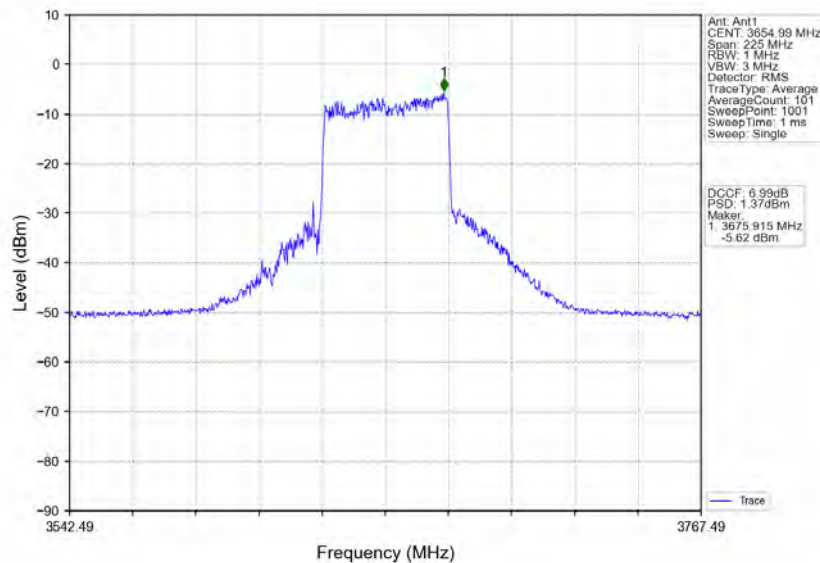
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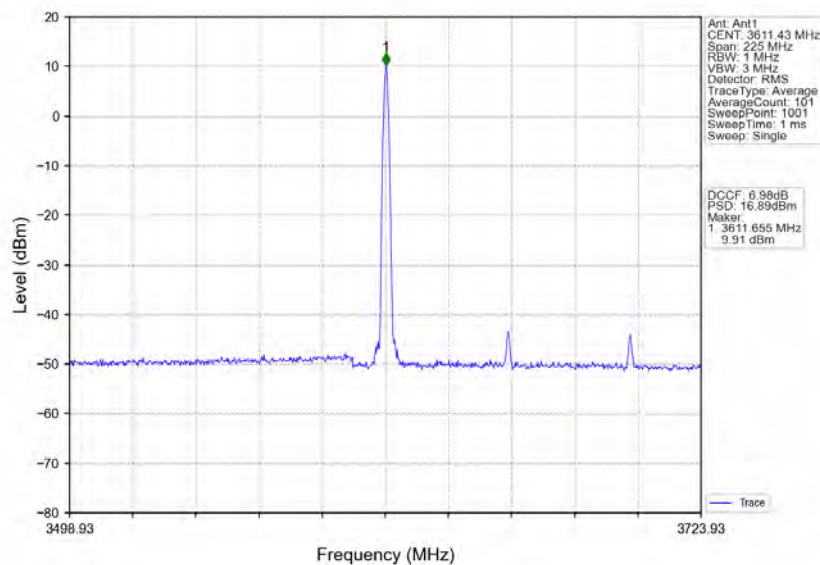
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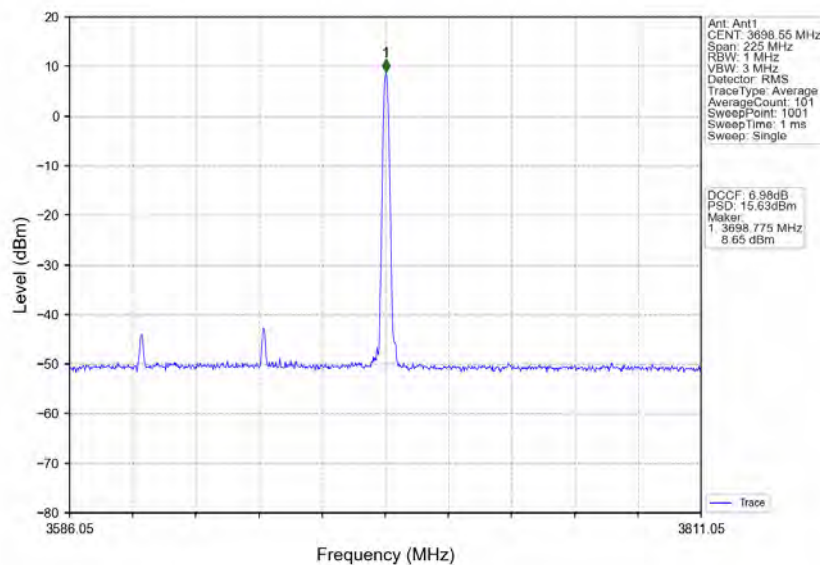
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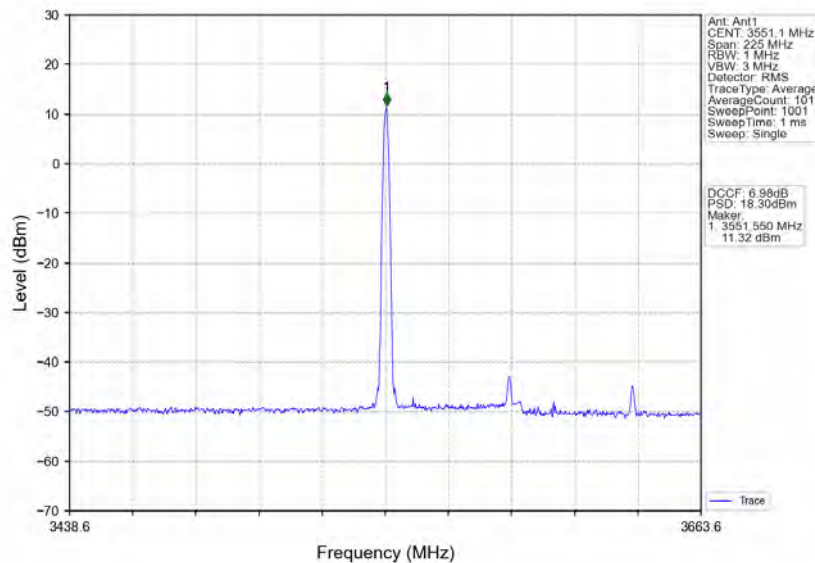
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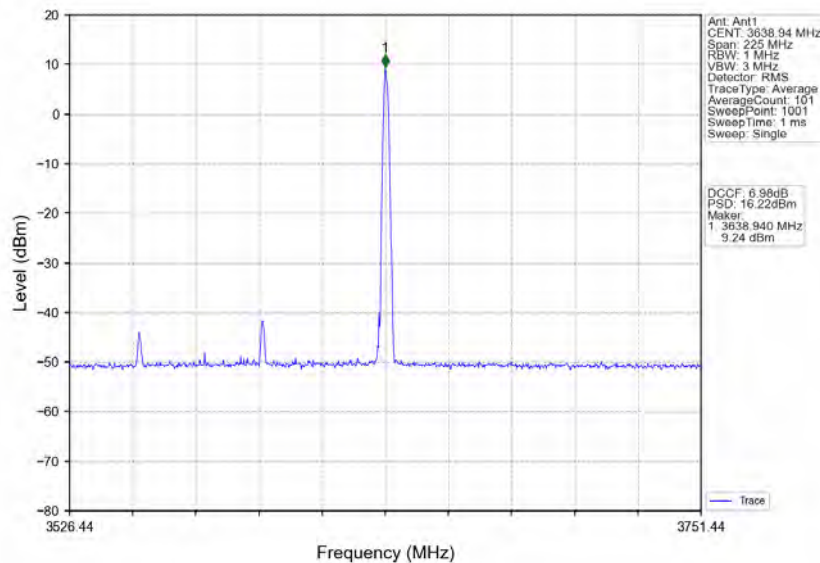
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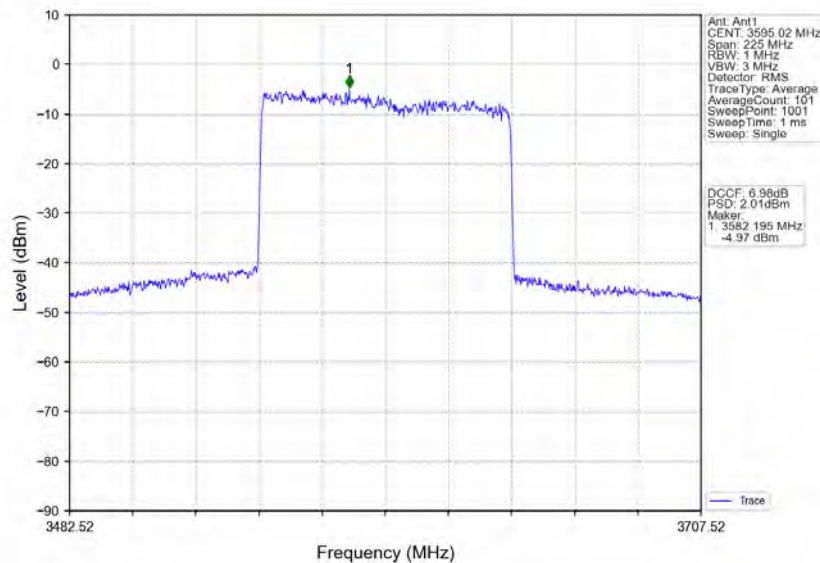
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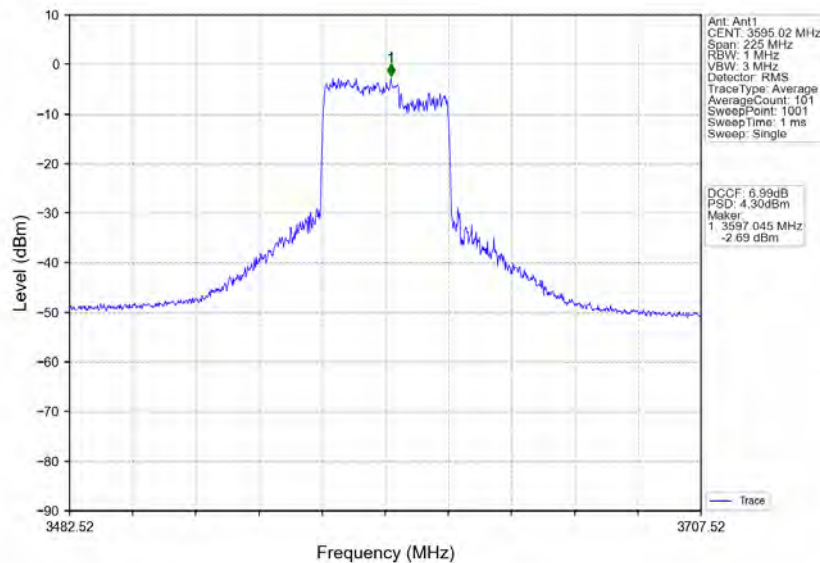
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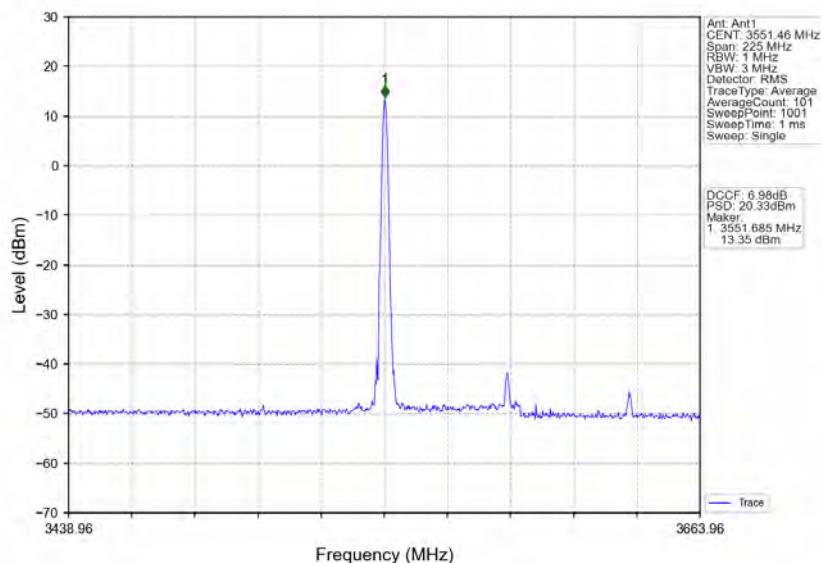
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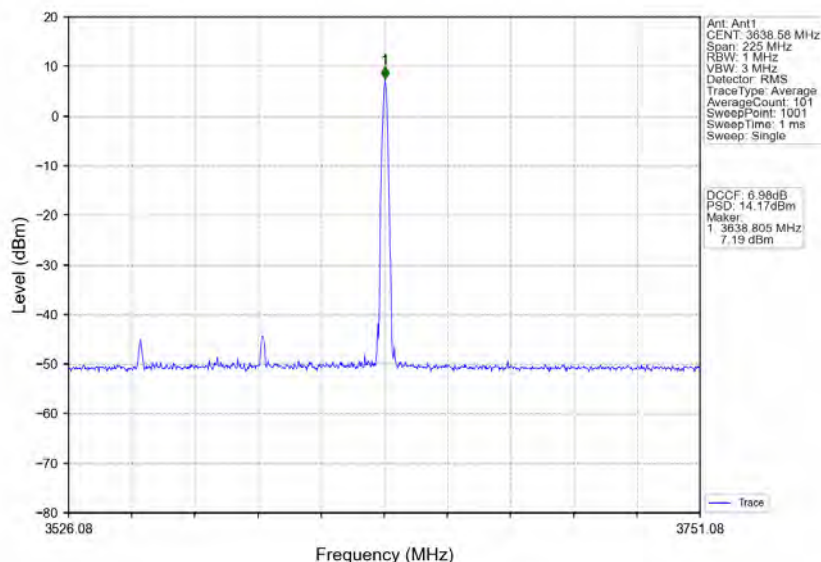
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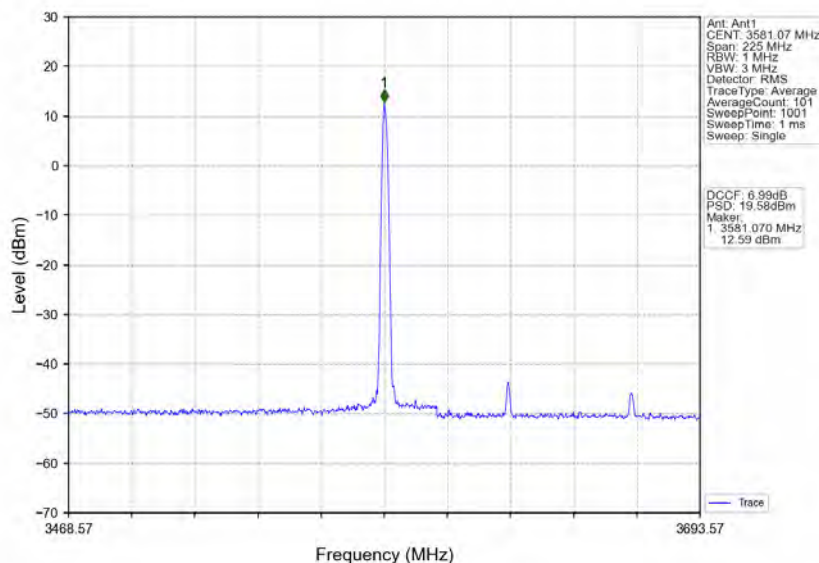
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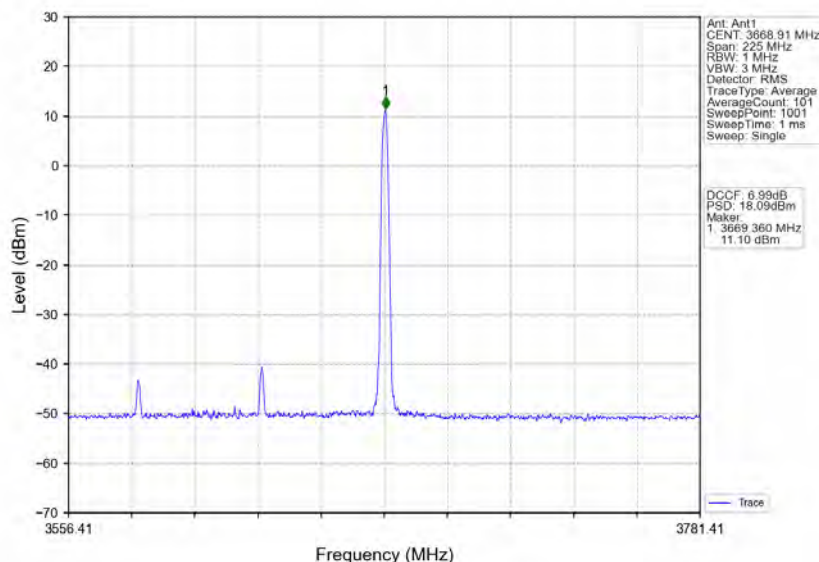
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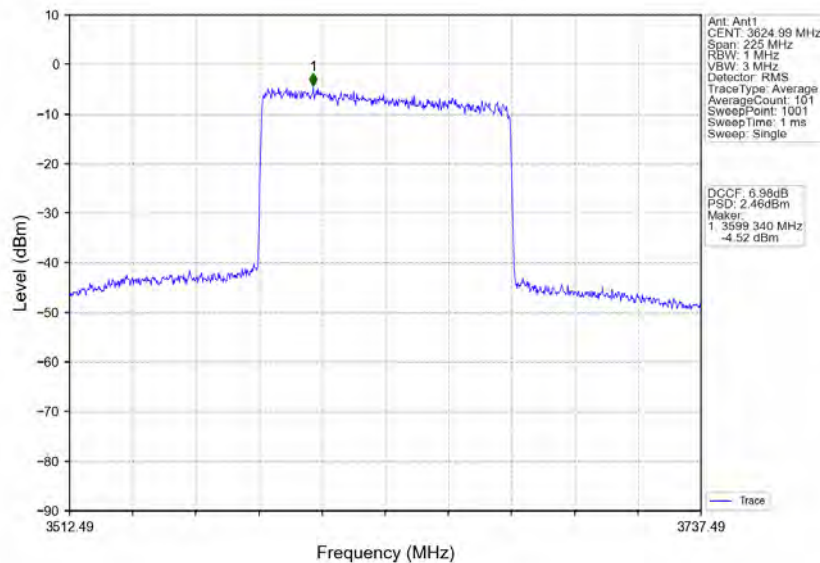
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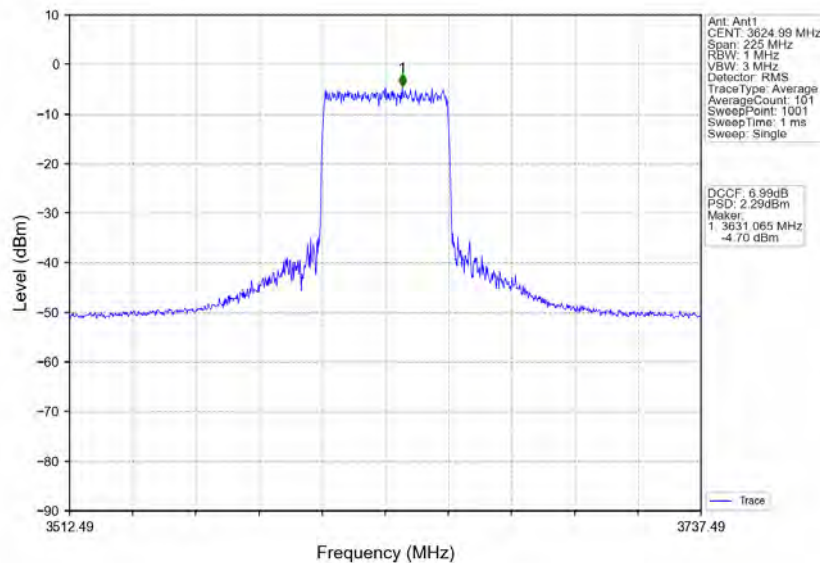
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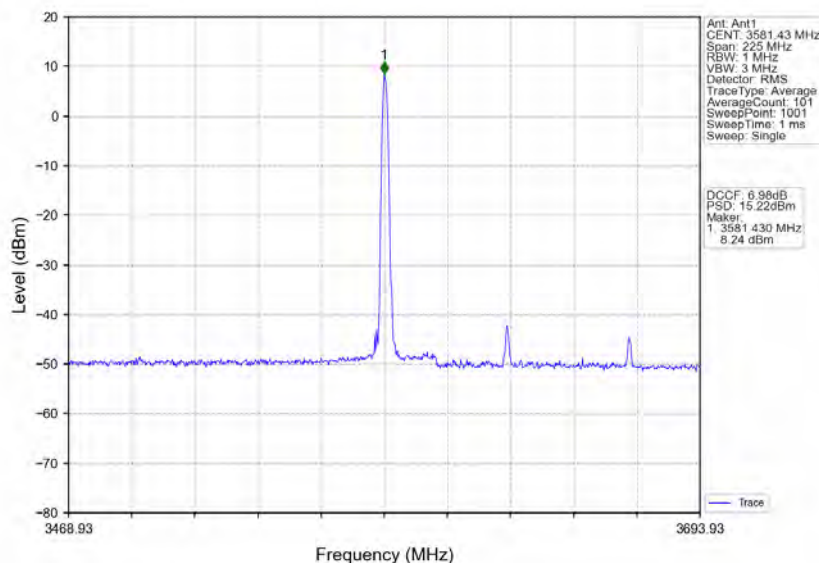
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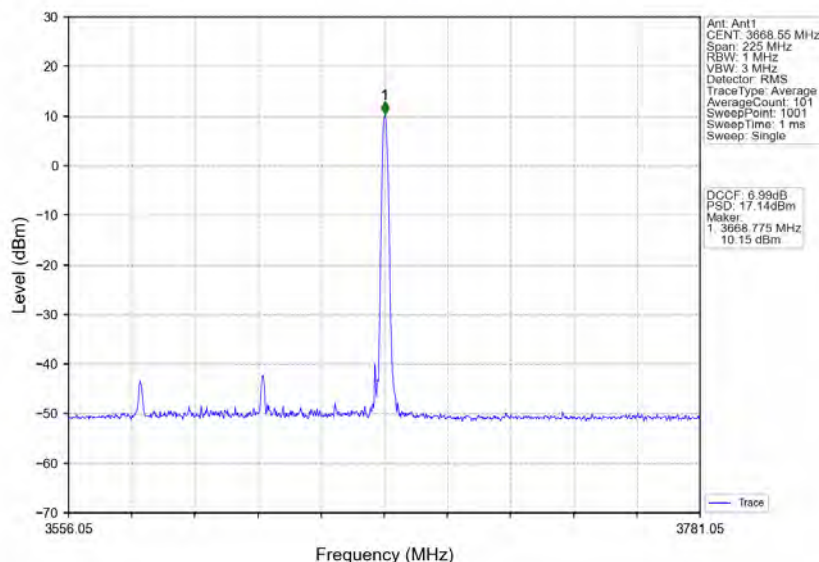
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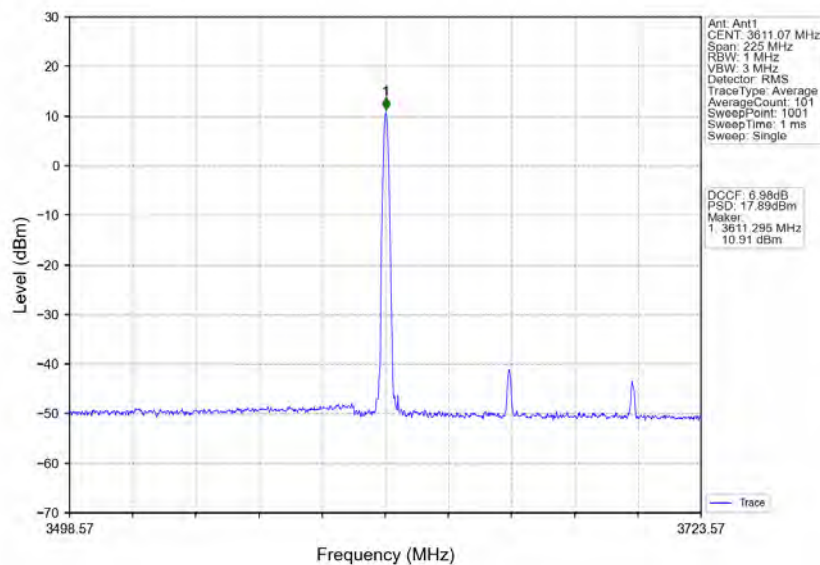
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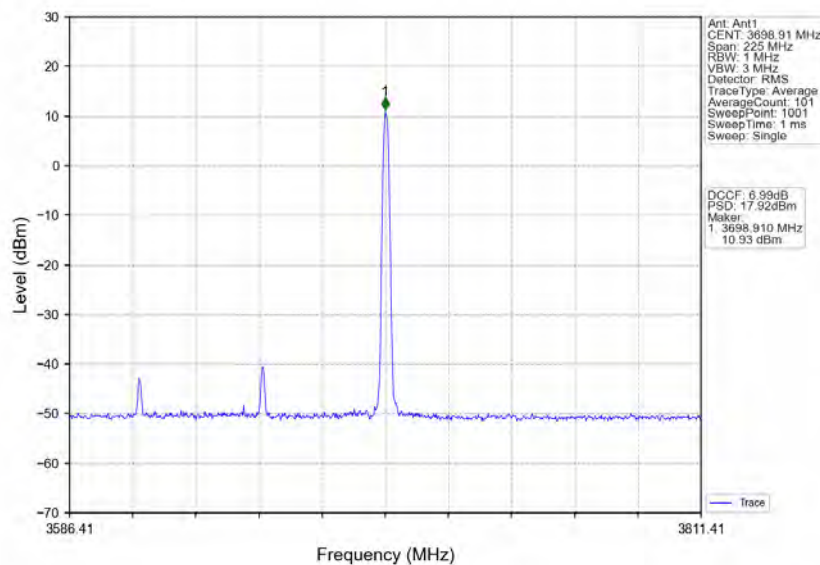
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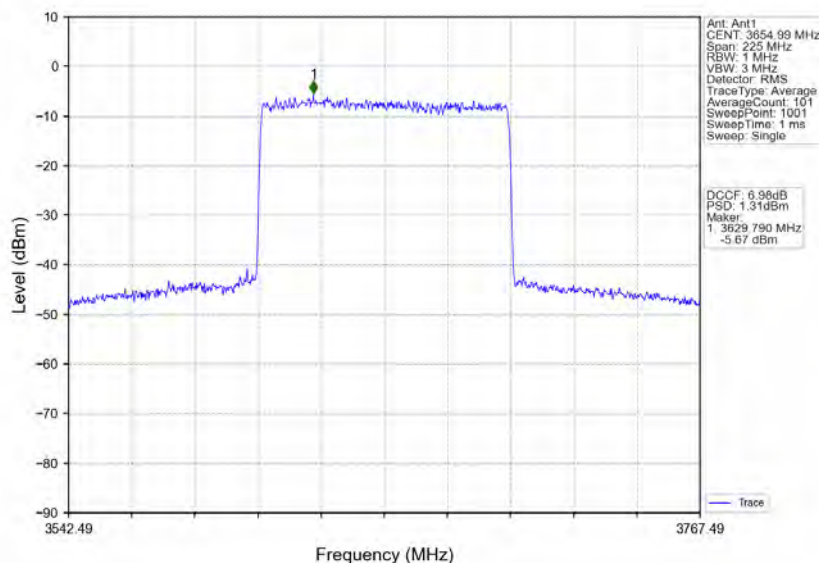
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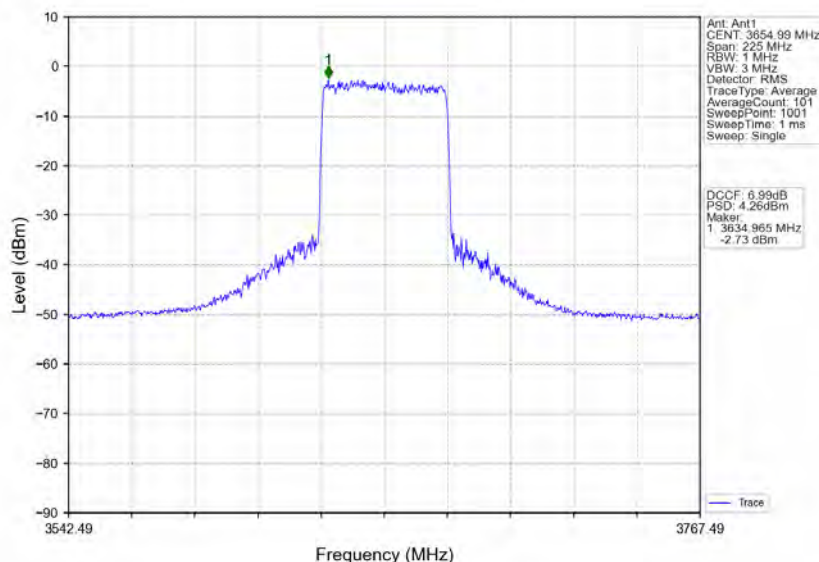
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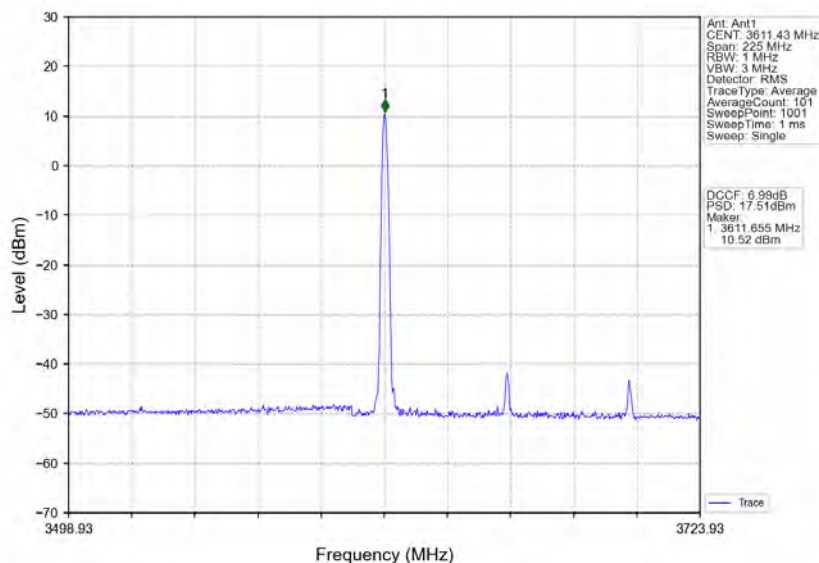
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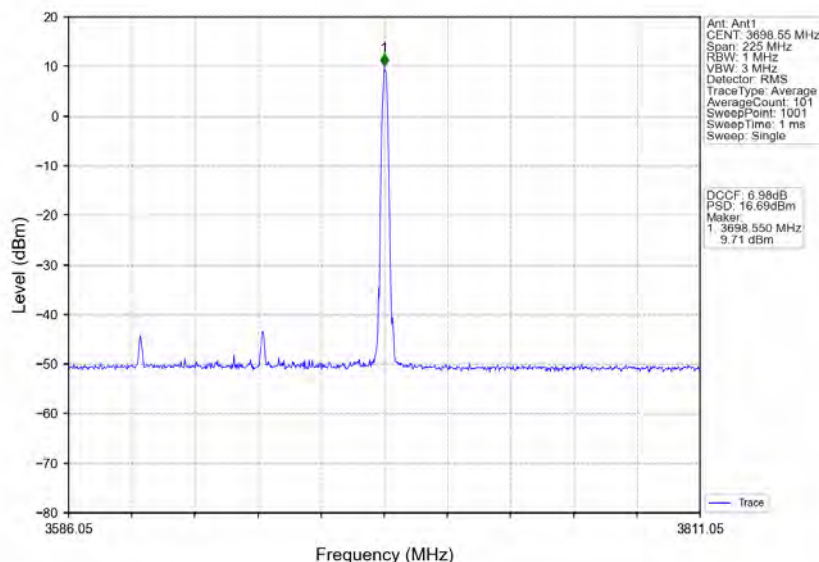
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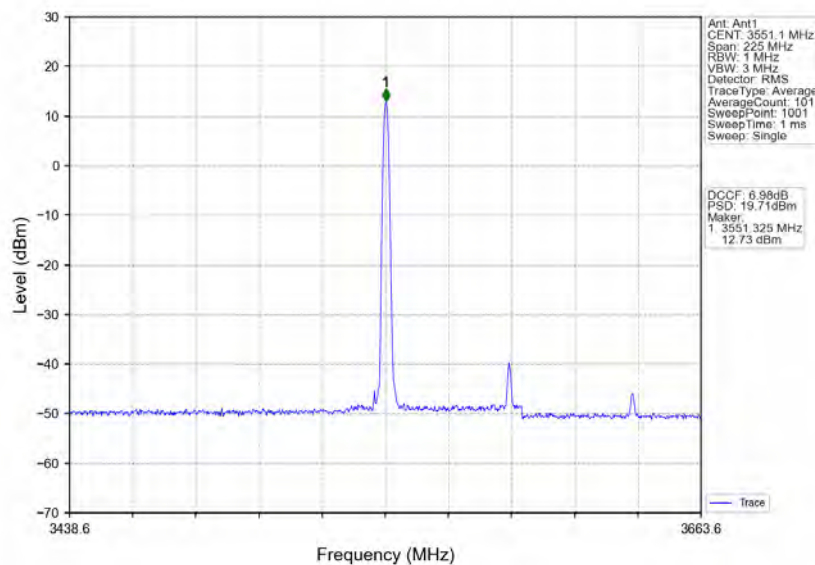
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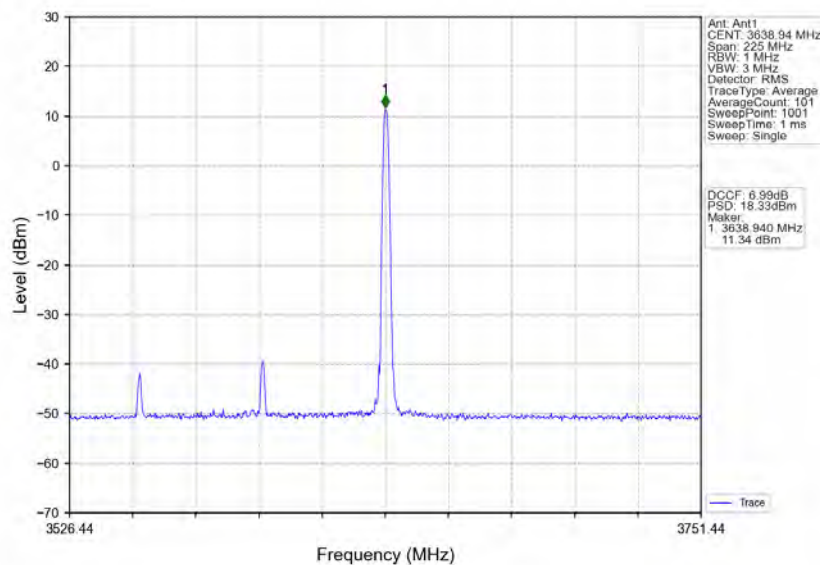
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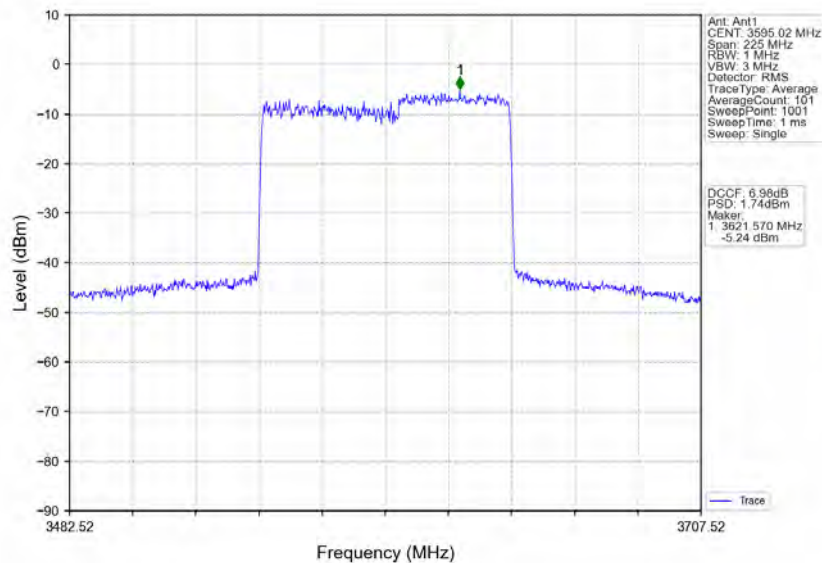
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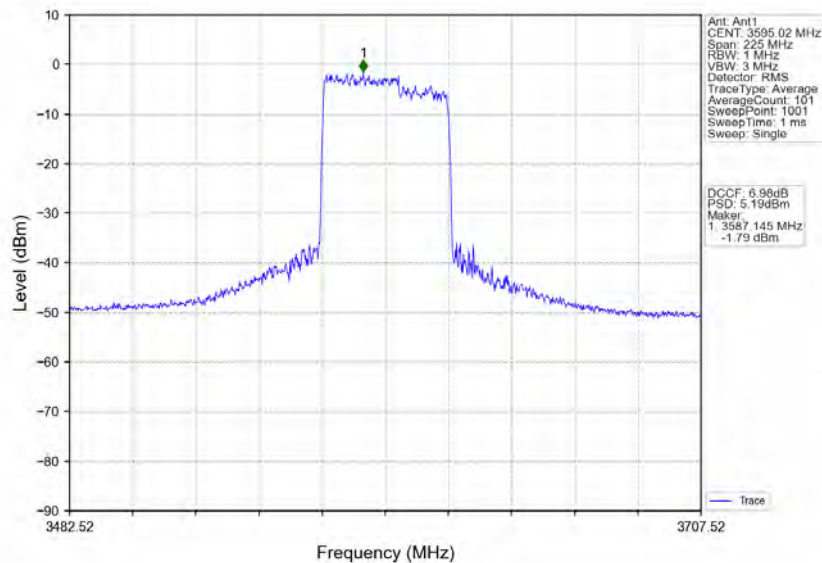
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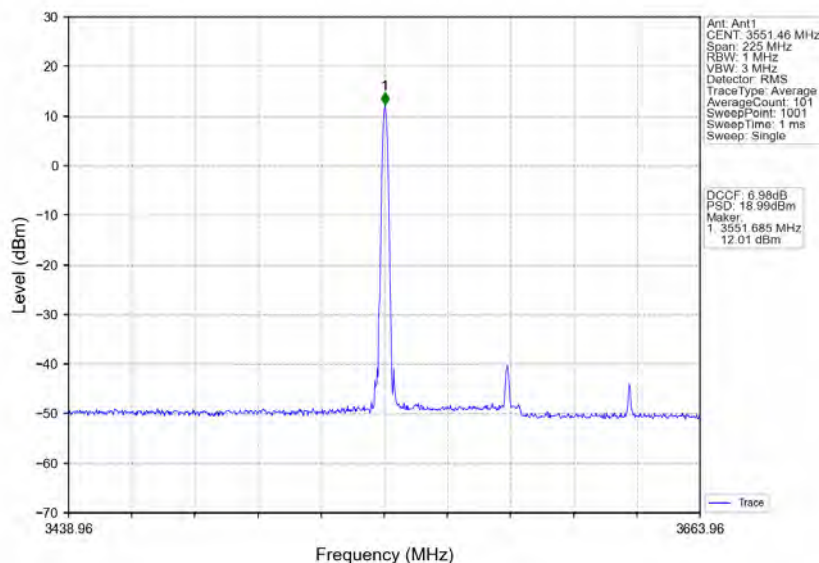
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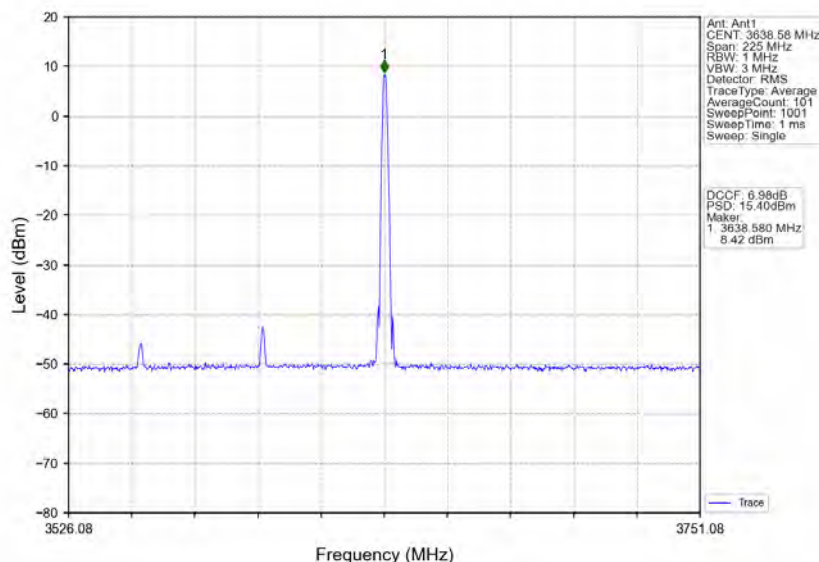
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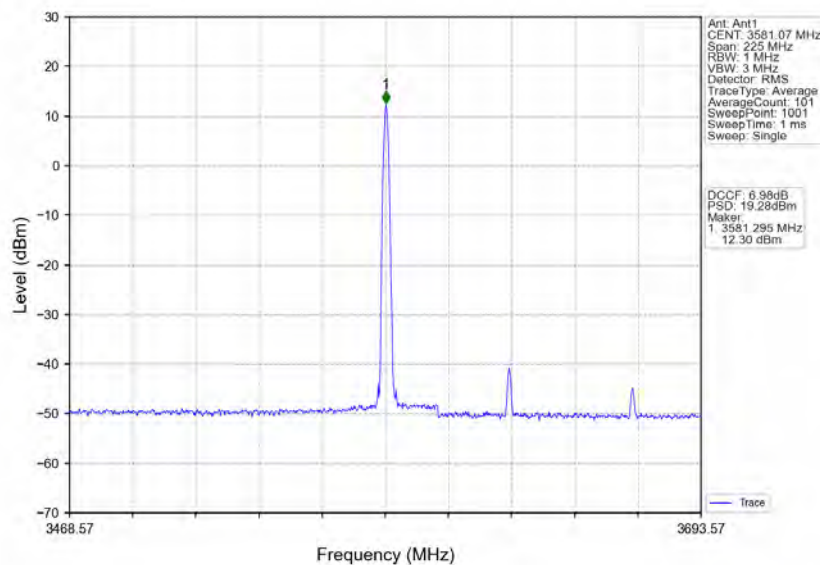
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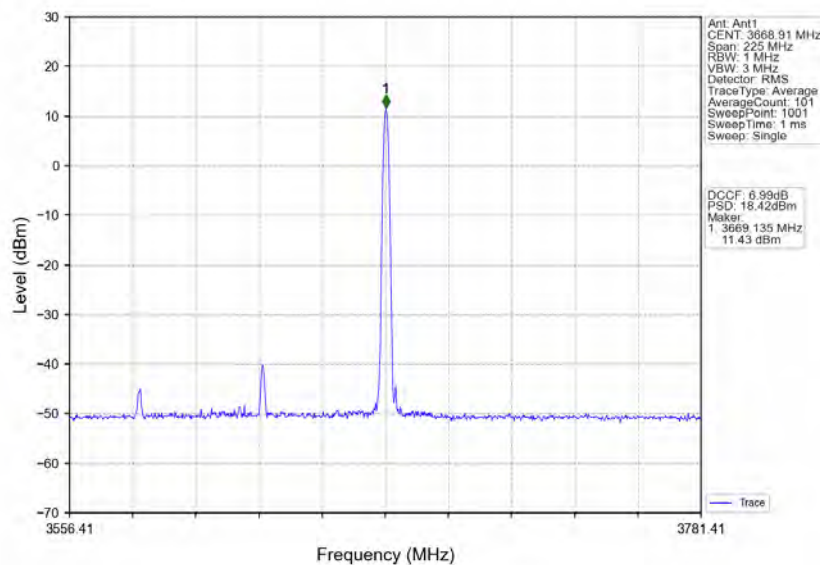
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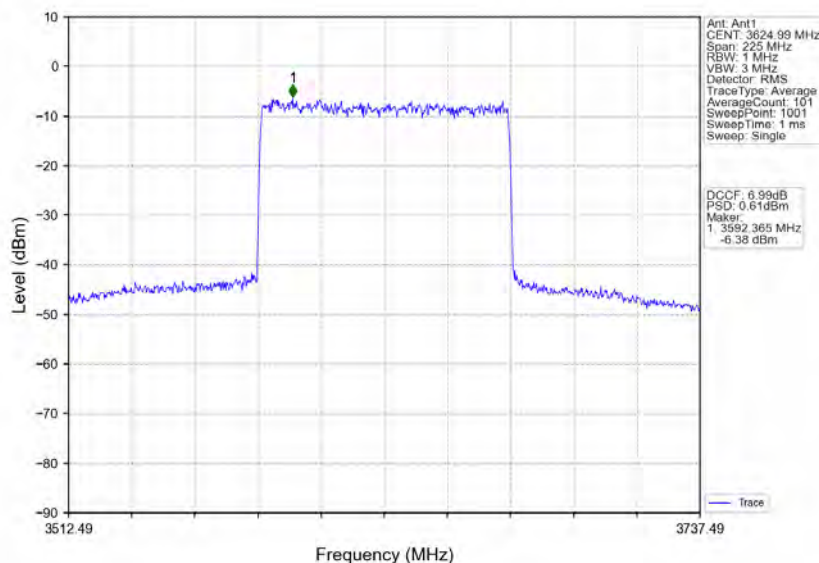
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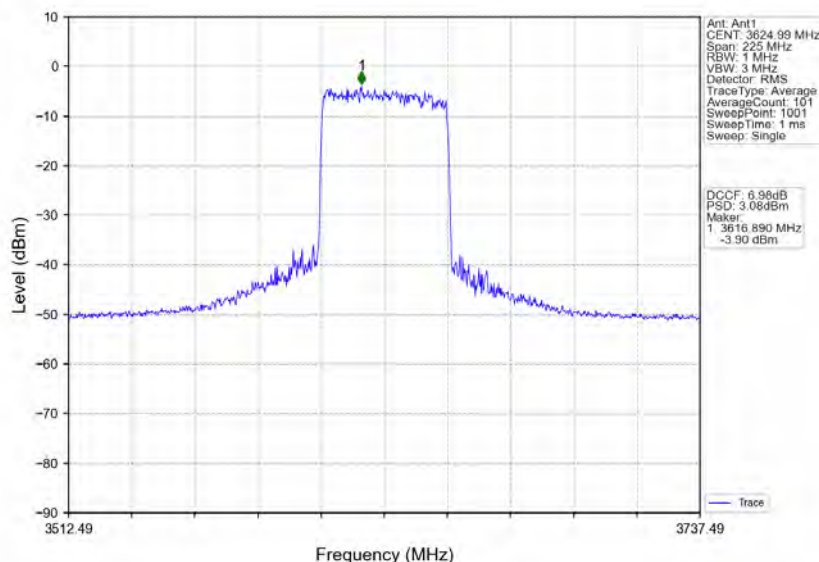
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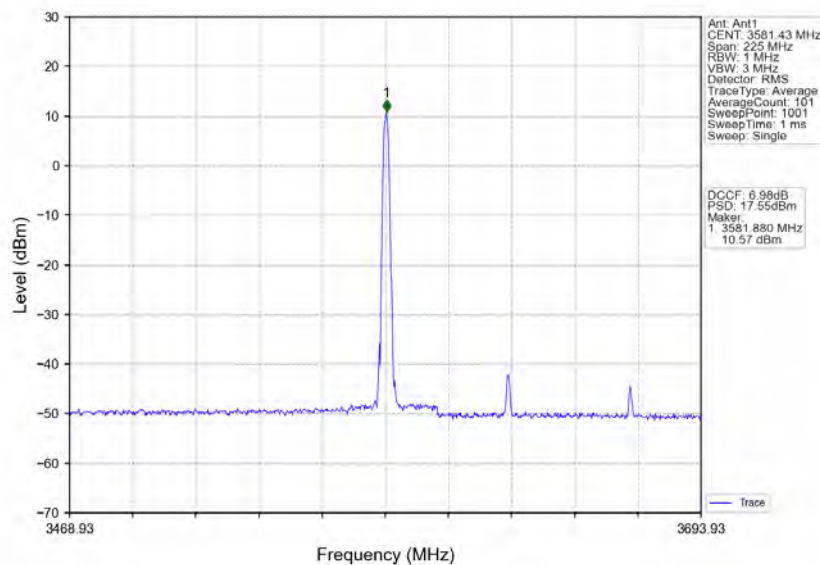
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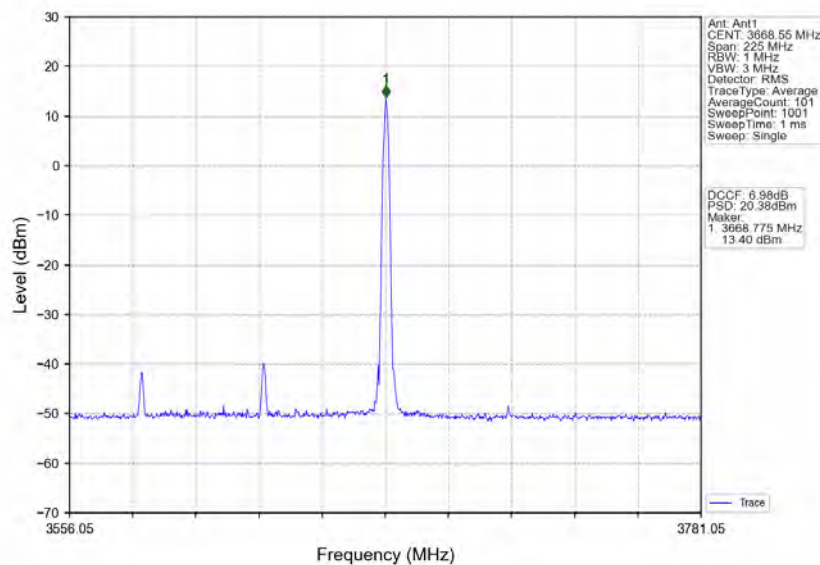
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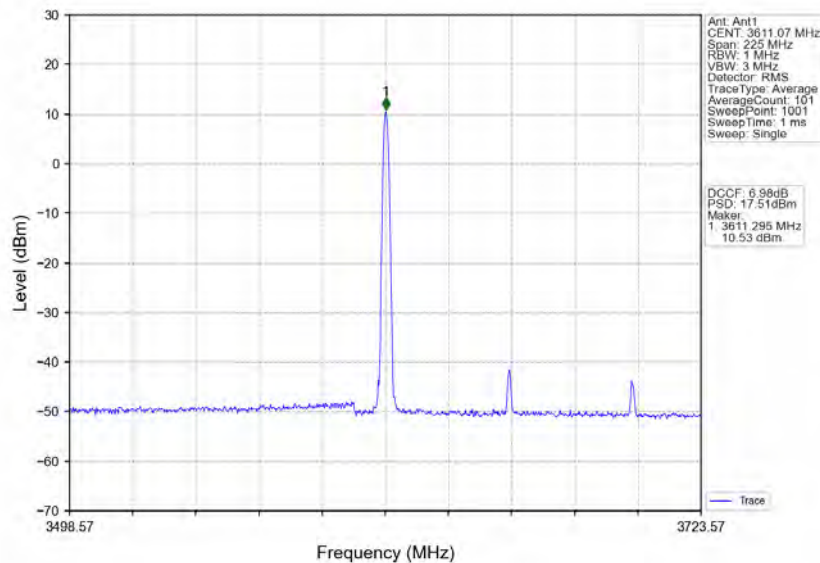
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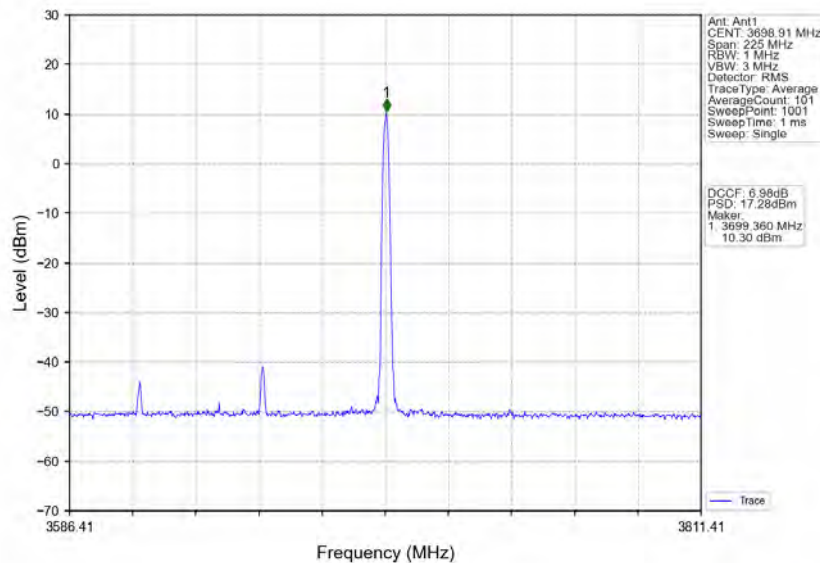
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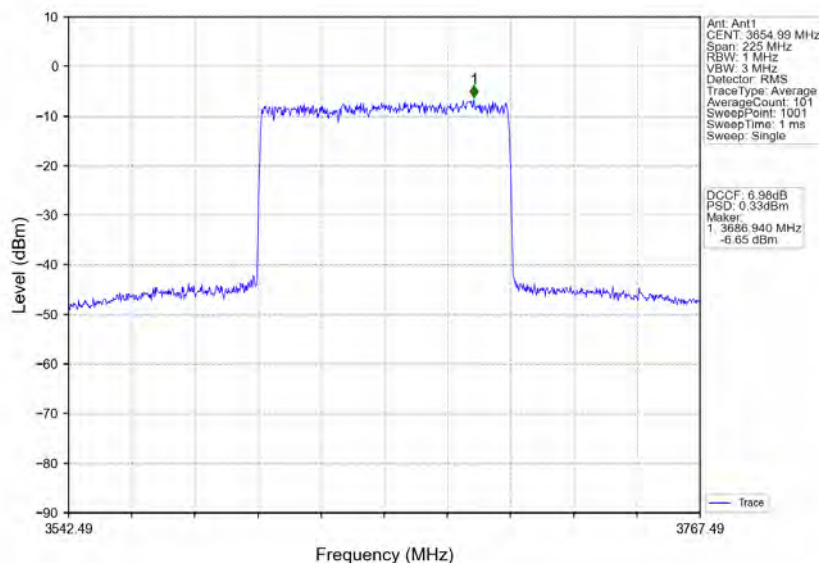
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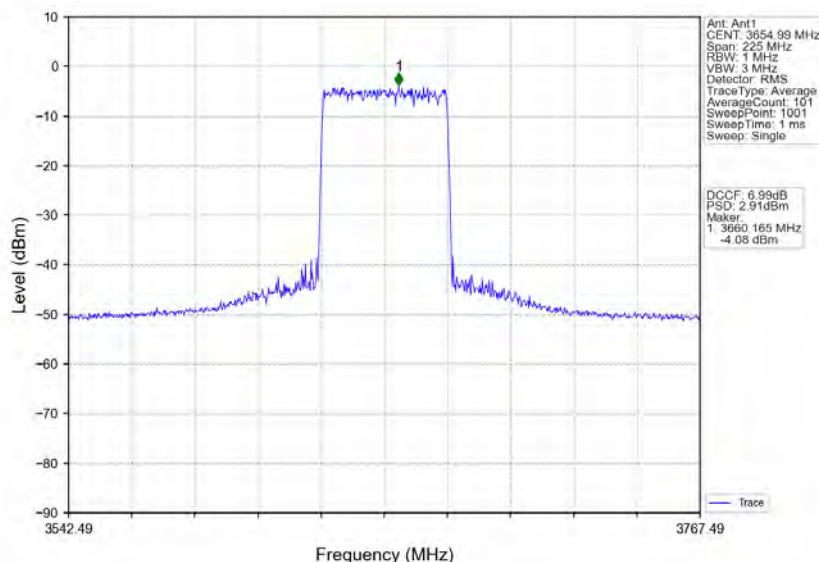
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 64 QAM_3654.99MHz_Inner_Full



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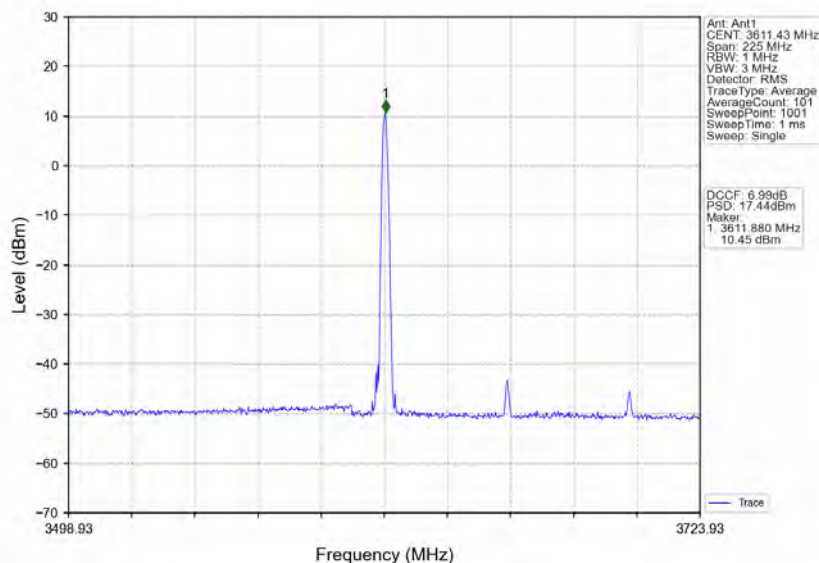
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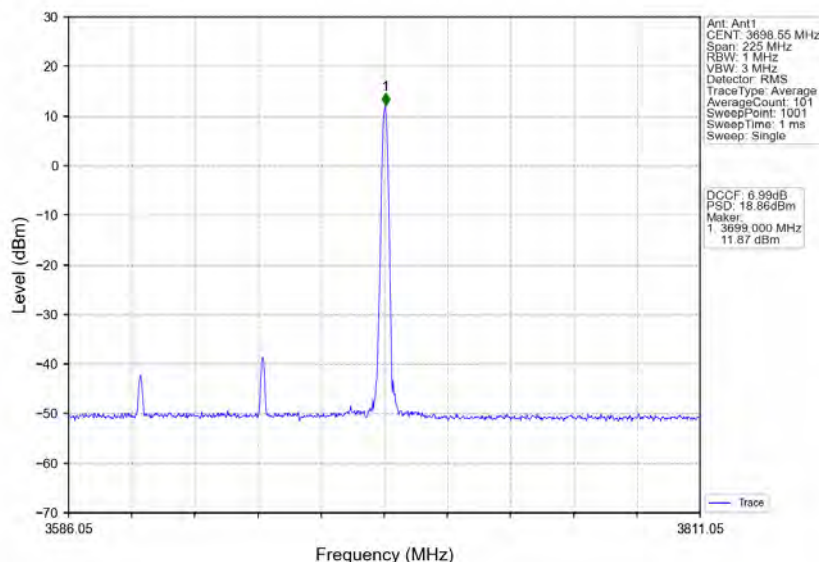
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 64 QAM_3654.99MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 64 QAM_3654.99MHz_Inner_1RB_Right



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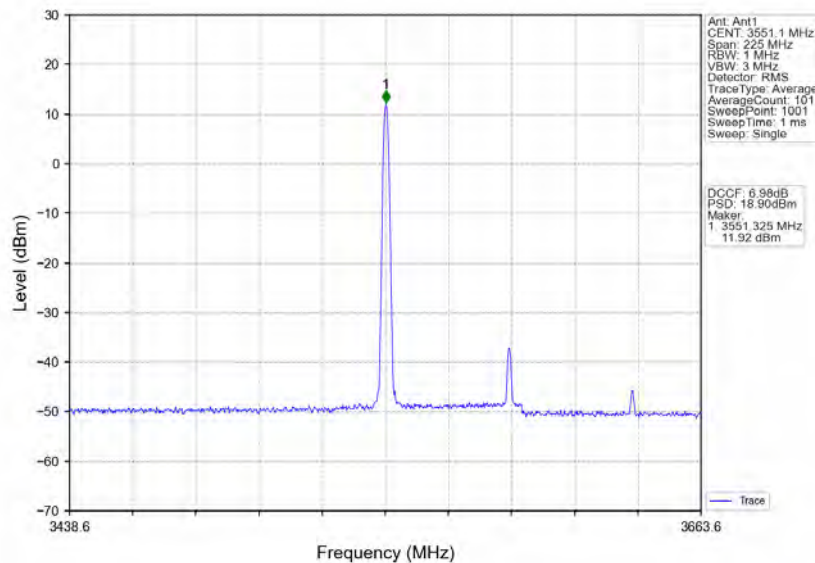
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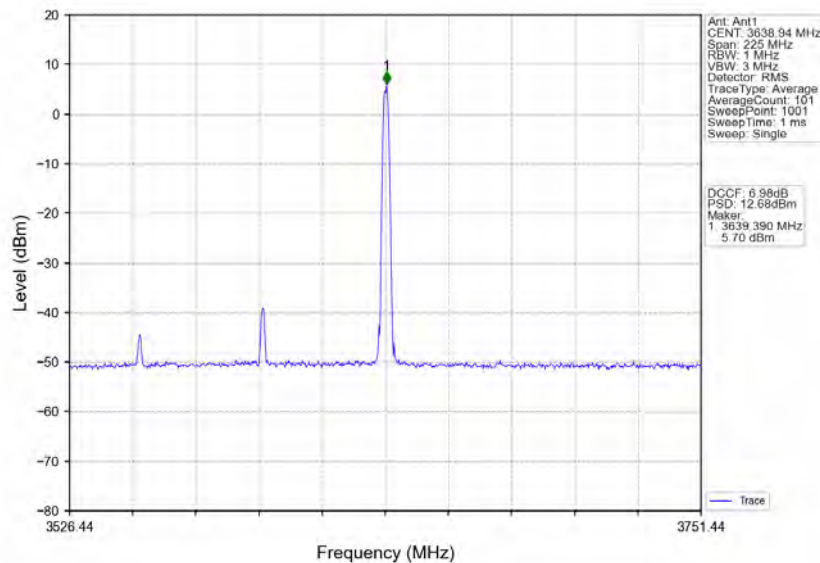
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_256_QAM_3595.02MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_256_QAM_3595.02MHz_Edge_1RB_Right



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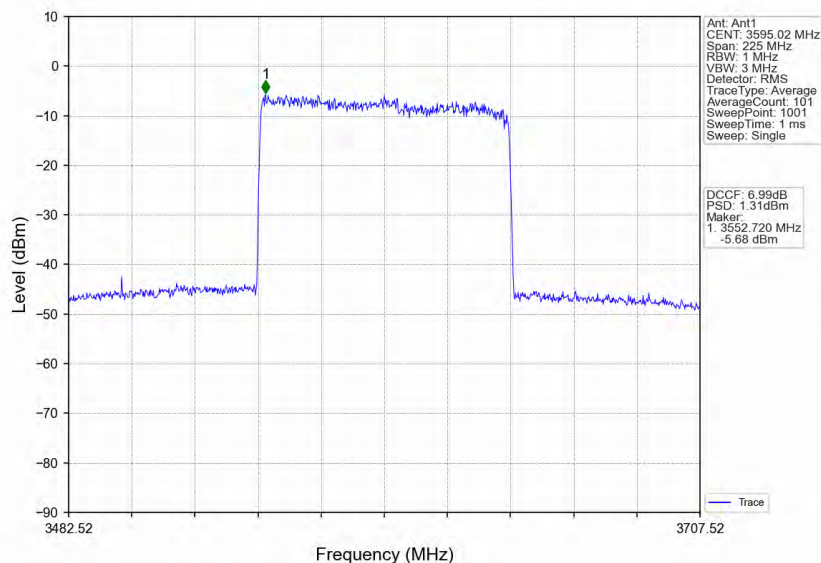
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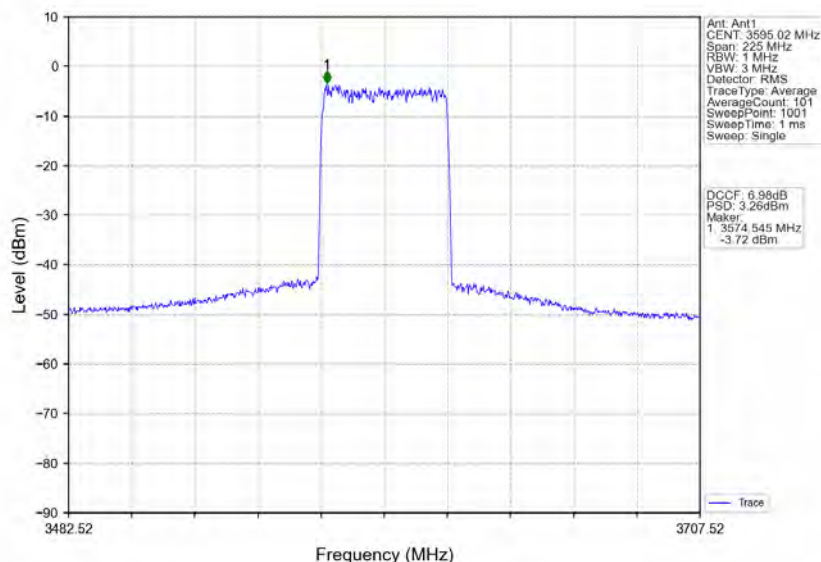
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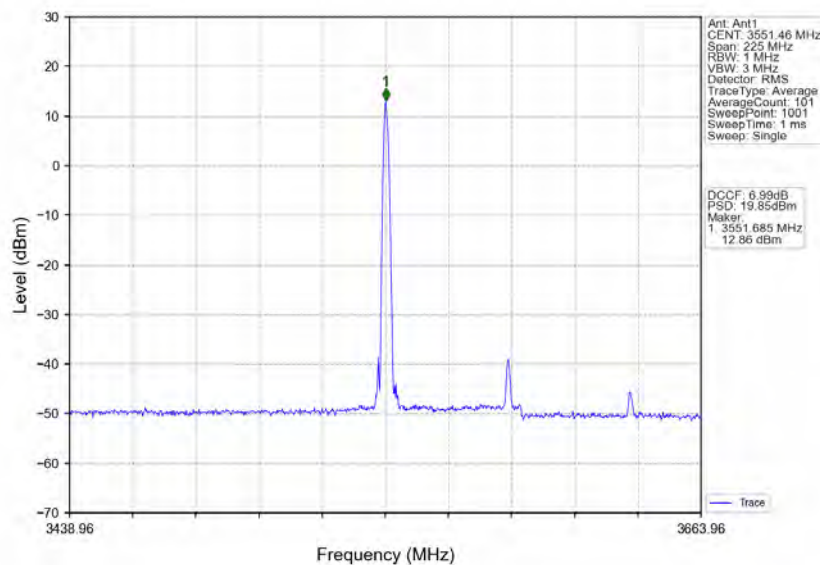
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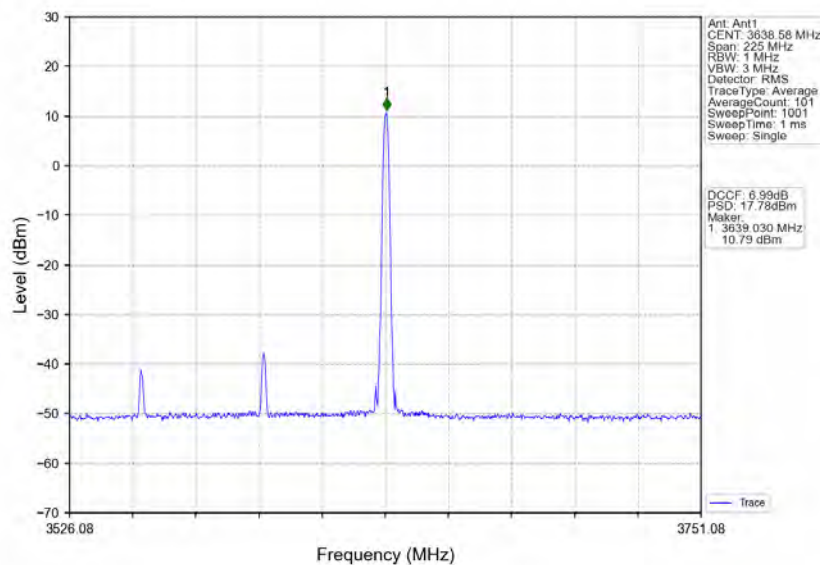
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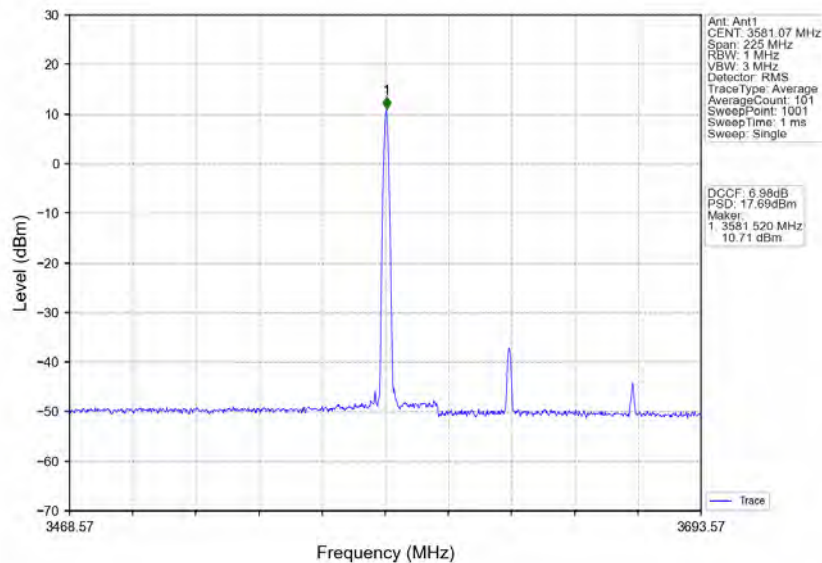
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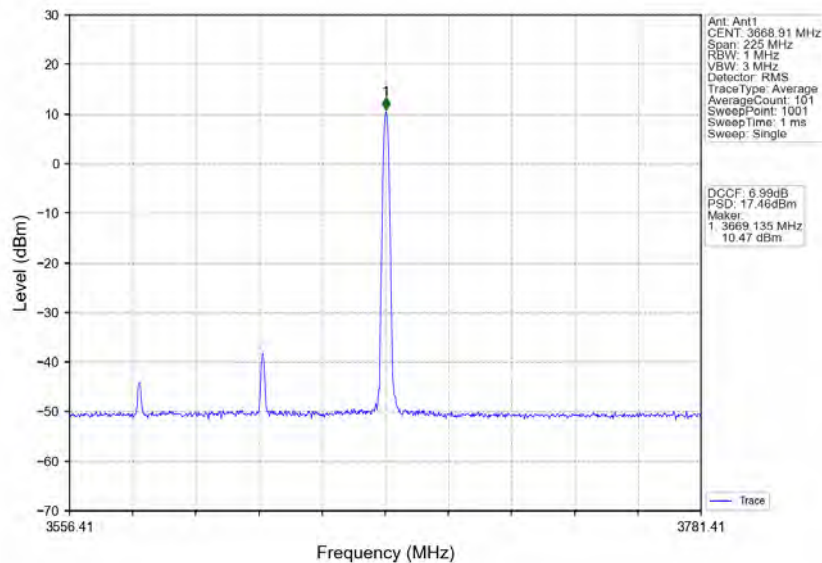
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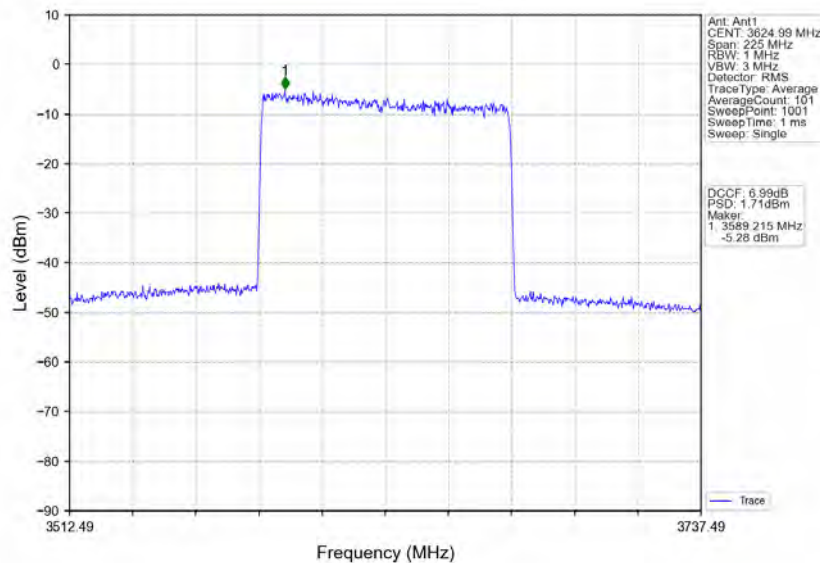
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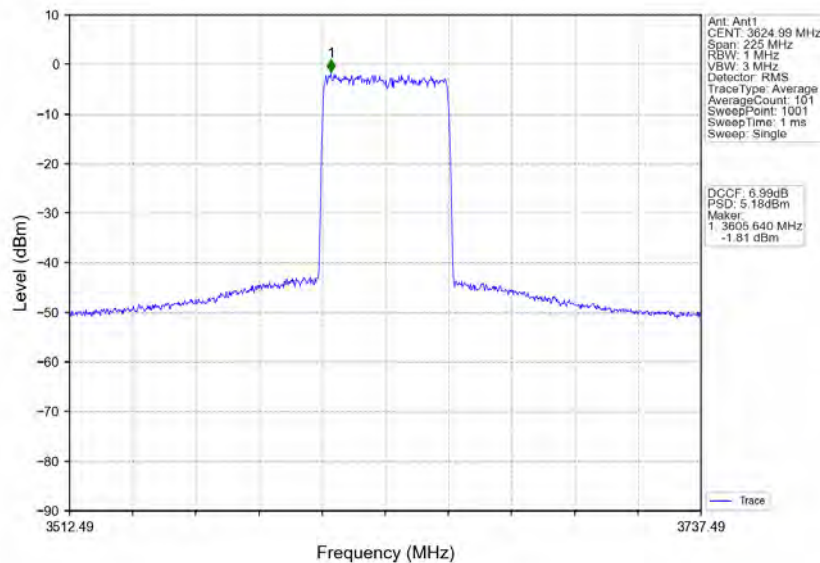
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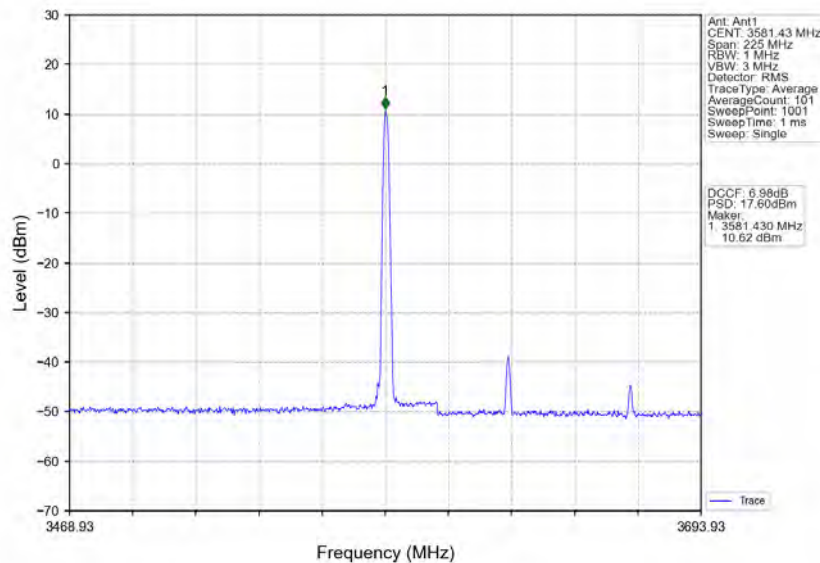
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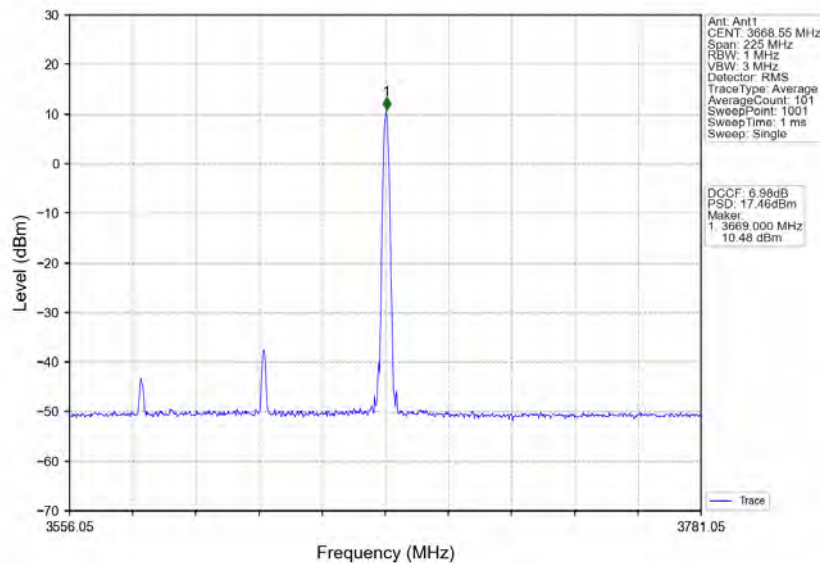
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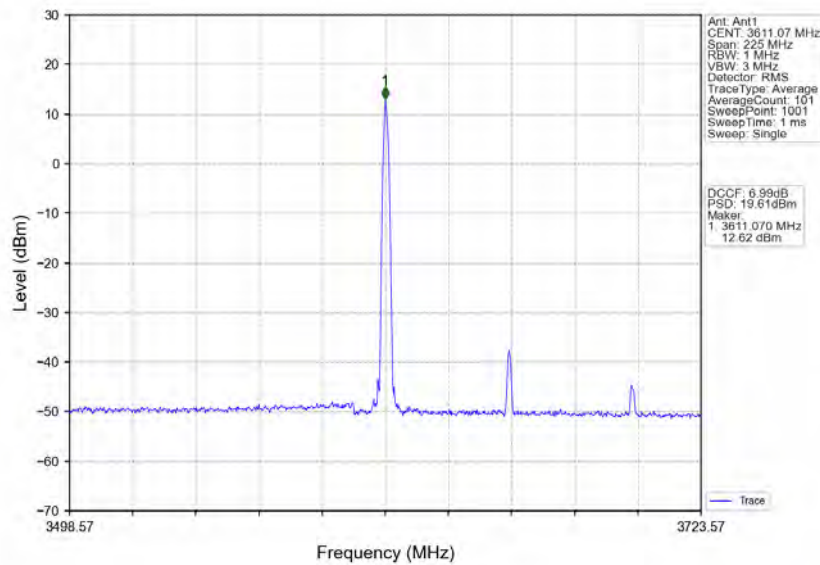
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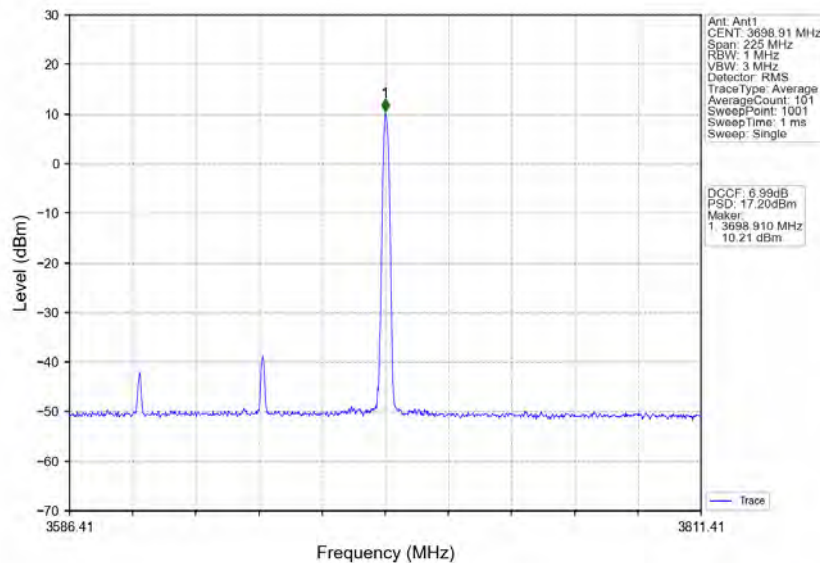
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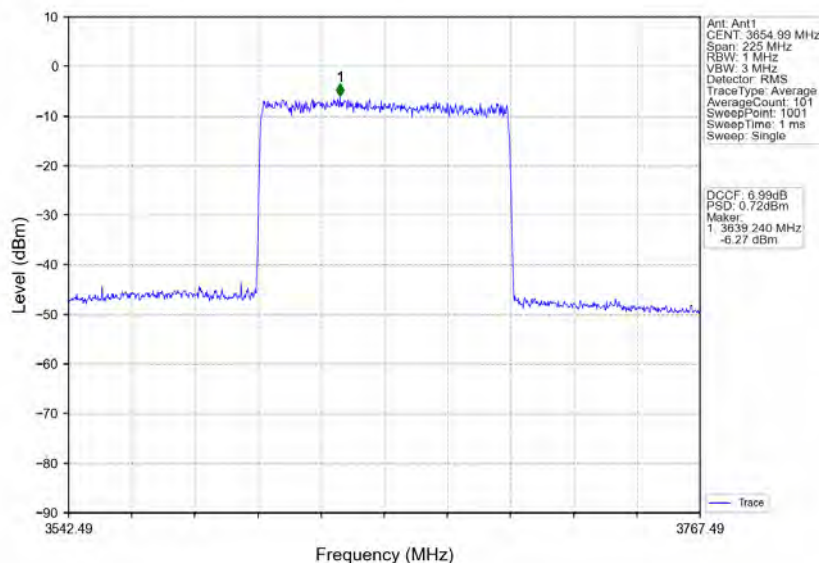
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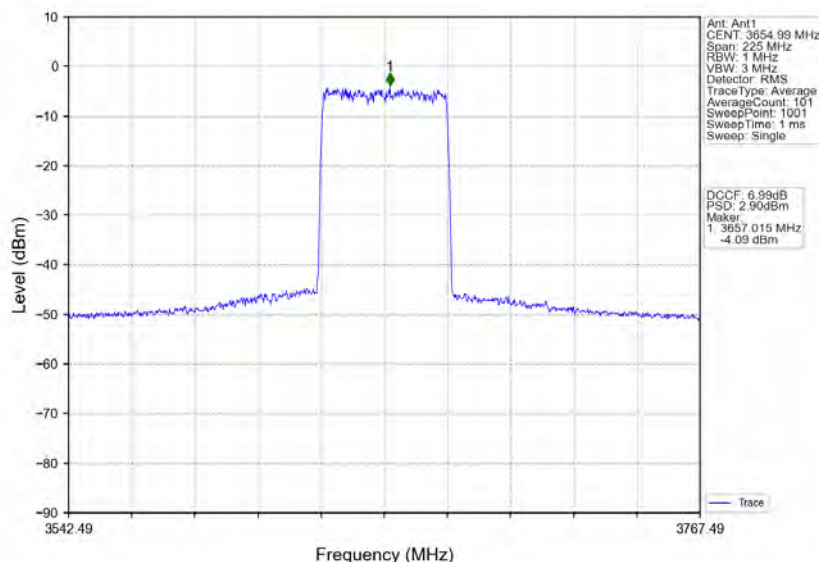
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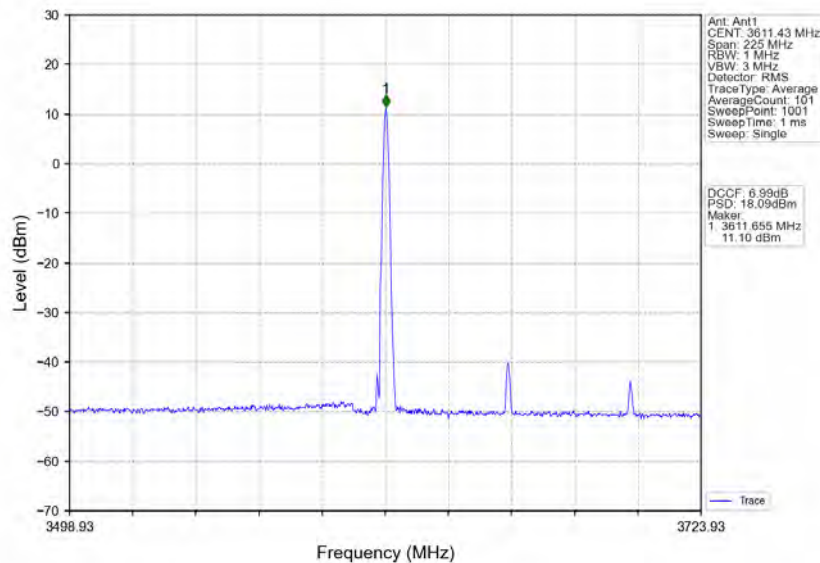
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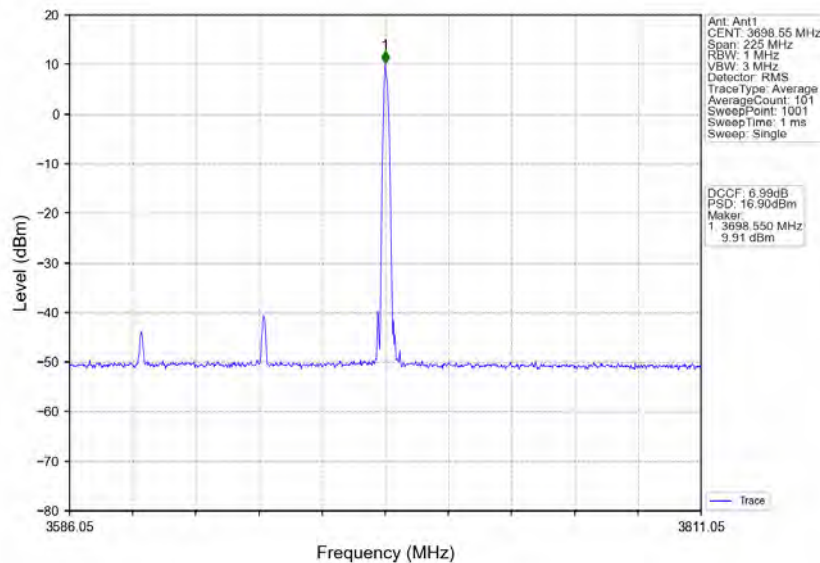
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2.31 30k_MIMO_100MHz_NTNV_EIRP

2.31.1 Test Result

5G NR n78d SCS=30kHz MIMO 100MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3600	Edge 1RB Left	18.81	18.72	21.78	33.13	33.07	36.11	-	Pass
		Edge 1RB Right	18.82	18.84	21.84	33.14	33.19	36.18	-	Pass
		Outer Full	19.02	18.88	21.96	33.34	33.23	36.30	-	Pass
		Inner Full	18.94	18.99	21.98	33.26	33.34	36.31	-	Pass
		Inner 1RB Left	18.77	18.72	21.76	33.09	33.07	36.09	-	Pass
		Inner 1RB Right	18.83	18.78	21.82	33.15	33.13	36.15	-	Pass
	3624.99	Edge 1RB Left	18.88	18.80	21.85	33.20	33.15	36.19	-	Pass
		Edge 1RB Right	18.62	18.53	21.59	32.94	32.88	35.92	-	Pass
		Outer Full	18.95	18.93	21.95	33.27	33.28	36.29	-	Pass
		Inner Full	18.97	19.18	22.09	33.29	33.53	36.42	-	Pass
		Inner 1RB Left	18.90	18.89	21.91	33.22	33.24	36.24	-	Pass
		Inner 1RB Right	18.59	18.48	21.55	32.91	32.83	35.88	-	Pass
	3649.98	Edge 1RB Left	18.89	18.84	21.88	33.21	33.19	36.21	-	Pass
		Edge 1RB Right	18.74	18.60	21.68	33.06	32.95	36.02	-	Pass
		Outer Full	18.92	18.83	21.89	33.24	33.18	36.22	-	Pass
		Inner Full	18.93	18.94	21.95	33.25	33.29	36.28	-	Pass
		Inner 1RB Left	18.91	18.79	21.86	33.23	33.14	36.20	-	Pass
		Inner 1RB Right	18.74	18.63	21.70	33.06	32.98	36.03	-	Pass
CP-OFDM 16 QAM	3600	Edge 1RB Left	19.03	18.86	21.96	33.35	33.21	36.29	-	Pass
		Edge 1RB Right	18.91	18.90	21.92	33.23	33.25	36.25	-	Pass
		Outer Full	19.01	18.90	21.97	33.33	33.25	36.30	-	Pass
		Inner Full	19.04	18.95	22.01	33.36	33.30	36.34	-	Pass
		Inner 1RB Left	18.97	18.86	21.93	33.29	33.21	36.26	-	Pass
		Inner 1RB Right	18.88	18.94	21.92	33.20	33.29	36.26	-	Pass
	3624.99	Edge 1RB Left	19.01	19.00	22.02	33.33	33.35	36.35	-	Pass
		Edge 1RB Right	18.75	18.64	21.71	33.07	32.99	36.04	-	Pass
		Outer Full	18.93	18.90	21.93	33.25	33.25	36.26	-	Pass
		Inner Full	19.14	19.02	22.09	33.46	33.37	36.43	-	Pass
		Inner 1RB Left	18.95	18.94	21.96	33.27	33.29	36.29	-	Pass
		Inner 1RB Right	18.60	18.54	21.58	32.92	32.89	35.92	-	Pass
	3649.98	Edge 1RB Left	19.01	18.95	21.99	33.33	33.30	36.33	-	Pass
		Edge 1RB Right	18.79	18.74	21.78	33.11	33.09	36.11	-	Pass
		Outer Full	18.81	18.86	21.85	33.13	33.21	36.18	-	Pass
		Inner Full	18.94	18.88	21.92	33.26	33.23	36.26	-	Pass
		Inner 1RB Left	18.98	18.98	21.99	33.30	33.33	36.33	-	Pass
		Inner 1RB Right	18.79	18.72	21.77	33.11	33.07	36.10	-	Pass
CP-OFDM 64 QAM	3600	Edge 1RB Left	18.96	18.98	21.98	33.28	33.33	36.32	-	Pass
		Edge 1RB Right	19.04	19.06	22.06	33.36	33.41	36.40	-	Pass
		Outer Full	18.86	18.87	21.88	33.18	33.22	36.21	-	Pass
		Inner Full	19.20	19.07	22.15	33.52	33.42	36.48	-	Pass
		Inner 1RB Left	19.10	19.06	22.09	33.42	33.41	36.43	-	Pass
		Inner 1RB Right	18.89	19.03	21.97	33.21	33.38	36.31	-	Pass
	3624.99	Edge 1RB Left	19.05	19.01	22.04	33.37	33.36	36.38	-	Pass
		Edge 1RB Right	18.70	18.76	21.74	33.02	33.11	36.08	-	Pass



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CP-OFDM 256 QAM		Outer_Full	18.97	18.95	21.97	33.29	33.30	36.31	-	Pass
		Inner_Full	19.04	19.06	22.06	33.36	33.41	36.40	-	Pass
		Inner_1RB_Left	19.02	19.08	22.06	33.34	33.43	36.40	-	Pass
		Inner_1RB_Right	18.62	18.75	21.70	32.94	33.10	36.03	-	Pass
	3649.98	Edge_1RB_Left	19.00	19.06	22.04	33.32	33.41	36.38	-	Pass
		Edge_1RB_Right	18.79	18.76	21.79	33.11	33.11	36.12	-	Pass
		Outer_Full	18.89	18.89	21.90	33.21	33.24	36.24	-	Pass
		Inner_Full	18.87	18.82	21.86	33.19	33.17	36.19	-	Pass
		Inner_1RB_Left	19.15	18.91	22.04	33.47	33.26	36.38	-	Pass
		Inner_1RB_Right	18.76	18.90	21.84	33.08	33.25	36.18	-	Pass
		Edge_1RB_Left	18.76	18.73	21.76	33.08	33.08	36.09	-	Pass
		Edge_1RB_Right	18.88	18.73	21.82	33.20	33.08	36.15	-	Pass
	3600	Outer_Full	19.00	19.00	22.01	33.32	33.35	36.35	-	Pass
		Inner_Full	19.07	19.05	22.07	33.39	33.40	36.41	-	Pass
		Inner_1RB_Left	18.86	18.76	21.82	33.18	33.11	36.16	-	Pass
		Inner_1RB_Right	18.67	18.82	21.76	32.99	33.17	36.09	-	Pass
	3624.99	Edge_1RB_Left	18.94	18.80	21.88	33.26	33.15	36.22	-	Pass
		Edge_1RB_Right	18.53	18.48	21.52	32.85	32.83	35.85	-	Pass
		Outer_Full	19.08	19.01	22.06	33.40	33.36	36.39	-	Pass
		Inner_Full	19.13	19.12	22.14	33.45	33.47	36.47	-	Pass
		Inner_1RB_Left	18.91	18.89	21.91	33.23	33.24	36.25	-	Pass
		Inner_1RB_Right	18.57	18.43	21.51	32.89	32.78	35.85	-	Pass
	3649.98	Edge_1RB_Left	18.91	18.79	21.86	33.23	33.14	36.20	-	Pass
		Edge_1RB_Right	18.70	18.61	21.67	33.02	32.96	36.00	-	Pass
		Outer_Full	18.89	18.79	21.85	33.21	33.14	36.19	-	Pass
		Inner_Full	18.89	18.92	21.92	33.21	33.27	36.25	-	Pass
		Inner_1RB_Left	18.86	18.82	21.85	33.18	33.17	36.19	-	Pass
		Inner_1RB_Right	18.63	18.64	21.65	32.95	32.99	35.98	-	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

2.32 30k_MIMO_100MHz_NTNV_EIRP/10MHz

2.32.1 Test Result

5G NR n78d SCS=30kHz MIMO 100MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3600	Edge_1RB_Left	18.23	18.07	21.16	32.55	32.42	35.50	<=47	Pass
		Edge_1RB_Right	17.23	13.95	18.90	31.55	28.30	33.23	<=47	Pass
		Outer_Full	8.19	8.38	11.30	22.51	22.73	25.63	<=47	Pass
		Inner_Full	11.53	10.91	14.24	25.85	25.26	28.58	<=47	Pass
		Inner_1RB_Left	18.02	18.94	21.51	32.34	33.29	35.85	<=47	Pass
		Inner_1RB_Right	16.49	15.21	18.91	30.81	29.56	33.24	<=47	Pass
	3624.99	Edge_1RB_Left	18.43	18.59	21.52	32.75	32.94	35.86	<=47	Pass
		Edge_1RB_Right	19.28	18.29	21.82	33.60	32.64	36.16	<=47	Pass
		Outer_Full	8.19	9.03	11.64	22.51	23.38	25.98	<=47	Pass
		Inner_Full	11.23	11.46	14.36	25.55	25.81	28.69	<=47	Pass
		Inner_1RB_Left	18.26	18.18	21.23	32.58	32.53	35.57	<=47	Pass
		Inner_1RB_Right	17.63	16.38	20.06	31.95	30.73	34.39	<=47	Pass
	3649.98	Edge_1RB_Left	17.79	18.77	21.32	32.11	33.12	35.65	<=47	Pass



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CP-OFDM 16 QAM	3600	Edge 1RB Right	17.72	19.10	21.47	32.04	33.45	35.81	<=47	Pass
		Outer Full	7.76	7.22	10.51	22.08	21.57	24.84	<=47	Pass
		Inner Full	9.83	9.68	12.77	24.15	24.03	27.10	<=47	Pass
		Inner 1RB Left	18.87	18.49	21.69	33.19	32.84	36.03	<=47	Pass
		Inner 1RB Right	17.33	15.51	19.52	31.65	29.86	33.86	<=47	Pass
	3624.99	Edge 1RB Left	17.78	18.66	21.25	32.10	33.01	35.59	<=47	Pass
		Edge 1RB Right	18.34	19.19	21.80	32.66	33.54	36.13	<=47	Pass
		Outer Full	8.28	8.92	11.62	22.60	23.27	25.96	<=47	Pass
		Inner Full	11.25	11.58	14.43	25.57	25.93	28.76	<=47	Pass
		Inner 1RB Left	17.93	17.89	20.92	32.25	32.24	35.26	<=47	Pass
		Inner 1RB Right	18.67	15.69	20.44	32.99	30.04	34.77	<=47	Pass
	3649.98	Edge 1RB Left	18.31	17.25	20.82	32.63	31.60	35.16	<=47	Pass
		Edge 1RB Right	18.04	17.23	20.66	32.36	31.58	35.00	<=47	Pass
		Outer Full	7.87	8.76	11.35	22.19	23.11	25.68	<=47	Pass
		Inner Full	11.49	11.06	14.29	25.81	25.41	28.62	<=47	Pass
		Inner 1RB Left	18.28	19.53	21.96	32.60	33.88	36.30	<=47	Pass
CP-OFDM 64 QAM	3600	Inner 1RB Right	17.61	16.60	20.14	31.93	30.95	34.48	<=47	Pass
		Edge 1RB Left	19.01	18.98	22.01	33.33	33.33	36.34	<=47	Pass
		Edge 1RB Right	18.16	18.28	21.23	32.48	32.63	35.57	<=47	Pass
		Outer Full	6.53	8.02	10.35	20.85	22.37	24.69	<=47	Pass
		Inner Full	11.04	10.89	13.98	25.36	25.24	28.31	<=47	Pass
		Inner 1RB Left	18.36	18.56	21.47	32.68	32.91	35.81	<=47	Pass
	3624.99	Inner 1RB Right	18.06	18.56	21.33	32.38	32.91	35.66	<=47	Pass
		Edge 1RB Left	18.17	19.28	21.77	32.49	33.63	36.11	<=47	Pass
		Edge 1RB Right	18.15	17.37	20.79	32.47	31.72	35.12	<=47	Pass
		Outer Full	8.25	8.63	11.45	22.57	22.98	25.79	<=47	Pass
		Inner Full	11.52	11.59	14.57	25.84	25.94	28.90	<=47	Pass
		Inner 1RB Left	18.50	18.20	21.36	32.82	32.55	35.70	<=47	Pass
	3649.98	Inner 1RB Right	18.21	18.90	21.58	32.53	33.25	35.92	<=47	Pass
		Edge 1RB Left	18.97	17.04	21.12	33.29	31.39	35.45	<=47	Pass
		Edge 1RB Right	17.78	16.01	19.99	32.10	30.36	34.33	<=47	Pass
		Outer Full	8.50	8.40	11.46	22.82	22.75	25.80	<=47	Pass
		Inner Full	11.32	10.99	14.17	25.64	25.34	28.50	<=47	Pass
		Inner 1RB Left	18.30	19.09	21.72	32.62	33.44	36.06	<=47	Pass
CP-OFDM 256 QAM	3600	Inner 1RB Right	17.85	15.74	19.93	32.17	30.09	34.26	<=47	Pass
		Edge 1RB Left	18.44	17.96	21.22	32.76	32.31	35.55	<=47	Pass
		Edge 1RB Right	17.67	18.87	21.32	31.99	33.22	35.66	<=47	Pass
		Outer Full	7.50	8.28	10.92	21.82	22.63	25.25	<=47	Pass
		Inner Full	10.56	11.63	14.14	24.88	25.98	28.48	<=47	Pass
		Inner 1RB Left	19.27	18.59	21.95	33.59	32.94	36.29	<=47	Pass
	3624.99	Inner 1RB Right	18.22	18.24	21.24	32.54	32.59	35.58	<=47	Pass
		Edge 1RB Left	18.16	19.44	21.86	32.48	33.79	36.19	<=47	Pass
		Edge 1RB Right	17.58	17.46	20.53	31.90	31.81	34.87	<=47	Pass
		Outer Full	8.07	7.96	11.03	22.39	22.31	25.36	<=47	Pass
		Inner Full	11.19	11.54	14.38	25.51	25.89	28.71	<=47	Pass
		Inner 1RB Left	18.66	18.81	21.75	32.98	33.16	36.08	<=47	Pass
	3649.98	Inner 1RB Right	18.61	16.71	20.77	32.93	31.06	35.11	<=47	Pass
		Edge 1RB Left	18.44	20.32	22.49	32.76	34.67	36.83	<=47	Pass
		Edge 1RB Right	16.26	16.15	19.22	30.58	30.50	33.55	<=47	Pass
		Outer Full	8.61	8.52	11.58	22.93	22.87	25.91	<=47	Pass
		Inner Full	11.33	10.96	14.16	25.65	25.31	28.49	<=47	Pass
		Inner 1RB Left	18.72	18.80	21.77	33.04	33.15	36.11	<=47	Pass
	3649.98	Inner 1RB Right	17.57	16.51	20.08	31.89	30.86	34.42	<=47	Pass
		Edge 1RB Left	17.88	18.50	21.21	32.20	32.85	35.55	<=47	Pass

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	Edge_1RB_Right	17.95	16.89	20.46	32.27	31.24	34.80	<=47	Pass
	Outer_Full	7.87	8.25	11.07	22.19	22.60	25.41	<=47	Pass
	Inner_Full	10.88	11.94	14.45	25.20	26.29	28.79	<=47	Pass
	Inner_1RB_Left	18.45	18.40	21.44	32.77	32.75	35.77	<=47	Pass
	Inner_1RB_Right	18.59	18.32	21.47	32.91	32.67	35.80	<=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

2.33 30k_MIMO_100MHz_NTNV_PSD

2.33.1 Test Result

5G NR n78d SCS=30kHz MIMO 100MHz 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	3600	Edge_1RB_Left	17.93	17.43	20.70	32.25	31.78	35.03	<=37	Pass
		Edge_1RB_Right	18.64	17.78	21.24	32.96	32.13	35.58	<=37	Pass
		Outer_Full	0.54	1.29	3.94	14.86	15.64	18.28	<=37	Pass
		Inner_Full	3.15	3.97	6.59	17.47	18.32	20.93	<=37	Pass
		Inner_1RB_Left	18.15	18.27	21.22	32.47	32.62	35.56	<=37	Pass
		Inner_1RB_Right	16.03	16.68	19.38	30.35	31.03	33.71	<=37	Pass
	3624.99	Edge_1RB_Left	18.43	19.37	21.94	32.75	33.72	36.27	<=37	Pass
		Edge_1RB_Right	17.67	18.10	20.90	31.99	32.45	35.24	<=37	Pass
		Outer_Full	0.40	1.61	4.06	14.72	15.96	18.39	<=37	Pass
		Inner_Full	3.15	2.95	6.06	17.47	17.30	20.40	<=37	Pass
		Inner_1RB_Left	17.29	19.08	21.29	31.61	33.43	35.62	<=37	Pass
		Inner_1RB_Right	17.52	20.34	22.17	31.84	34.69	36.51	<=37	Pass
	3649.98	Edge_1RB_Left	17.83	17.13	20.50	32.15	31.48	34.84	<=37	Pass
		Edge_1RB_Right	18.38	18.53	21.47	32.70	32.88	35.80	<=37	Pass
		Outer_Full	0.29	-0.19	3.07	14.61	14.16	17.40	<=37	Pass
		Inner_Full	3.46	3.83	6.66	17.78	18.18	20.99	<=37	Pass
		Inner_1RB_Left	18.59	18.63	21.62	32.91	32.98	35.96	<=37	Pass
		Inner_1RB_Right	18.64	18.56	21.61	32.96	32.91	35.95	<=37	Pass
CP-OFDM 16 QAM	3600	Edge_1RB_Left	18.53	15.54	20.30	32.85	29.89	34.63	<=37	Pass
		Edge_1RB_Right	17.22	17.31	20.28	31.54	31.66	34.61	<=37	Pass
		Outer_Full	0.86	0.58	3.73	15.18	14.93	18.07	<=37	Pass
		Inner_Full	2.97	2.68	5.84	17.29	17.03	20.17	<=37	Pass
		Inner_1RB_Left	17.66	17.04	20.37	31.98	31.39	34.71	<=37	Pass
		Inner_1RB_Right	18.28	15.49	20.12	32.60	29.84	34.45	<=37	Pass
	3624.99	Edge_1RB_Left	18.37	17.44	20.94	32.69	31.79	35.27	<=37	Pass
		Edge_1RB_Right	18.49	17.53	21.05	32.81	31.88	35.38	<=37	Pass
		Outer_Full	0.36	0.64	3.51	14.68	14.99	17.85	<=37	Pass
		Inner_Full	2.35	2.92	5.65	16.67	17.27	19.99	<=37	Pass
		Inner_1RB_Left	17.03	18.04	20.57	31.35	32.39	34.91	<=37	Pass
		Inner_1RB_Right	16.20	16.70	19.47	30.52	31.05	33.80	<=37	Pass
	3649.98	Edge_1RB_Left	17.62	16.73	20.21	31.94	31.08	34.54	<=37	Pass
		Edge_1RB_Right	18.19	18.38	21.30	32.51	32.73	35.63	<=37	Pass
		Outer_Full	0.19	0.13	3.17	14.51	14.48	17.51	<=37	Pass
		Inner_Full	2.40	1.69	5.07	16.72	16.04	19.40	<=37	Pass
		Inner_1RB_Left	17.66	15.72	19.81	31.98	30.07	34.14	<=37	Pass
		Inner_1RB_Right	16.49	19.63	21.35	30.81	33.98	35.69	<=37	Pass



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CP-OFDM 64 QAM	3600	Edge 1RB Left	18.28	18.78	21.55	32.60	33.13	35.88	<=37	Pass
		Edge 1RB Right	16.76	20.36	21.93	31.08	34.71	36.27	<=37	Pass
		Outer Full	-0.17	1.33	3.65	14.15	15.68	17.99	<=37	Pass
		Inner Full	2.65	3.98	6.38	16.97	18.33	20.71	<=37	Pass
		Inner 1RB Left	18.05	17.83	20.95	32.37	32.18	35.29	<=37	Pass
		Inner 1RB Right	17.47	17.34	20.42	31.79	31.69	34.75	<=37	Pass
	3624.99	Edge 1RB Left	17.67	18.82	21.29	31.99	33.17	35.63	<=37	Pass
		Edge 1RB Right	16.29	17.19	19.77	30.61	31.54	34.11	<=37	Pass
		Outer Full	0.72	0.45	3.60	15.04	14.80	17.93	<=37	Pass
		Inner Full	2.68	3.80	6.29	17.00	18.15	20.62	<=37	Pass
		Inner 1RB Left	17.98	17.83	20.92	32.30	32.18	35.25	<=37	Pass
		Inner 1RB Right	18.02	19.42	21.79	32.34	33.77	36.12	<=37	Pass
	3649.98	Edge 1RB Left	18.48	18.65	21.58	32.80	33.00	35.91	<=37	Pass
		Edge 1RB Right	18.76	19.05	21.92	33.08	33.40	36.25	<=37	Pass
		Outer Full	-1.45	1.09	3.01	12.87	15.44	17.35	<=37	Pass
		Inner Full	3.25	5.20	7.34	17.57	19.55	21.68	<=37	Pass
		Inner 1RB Left	16.57	16.97	19.78	30.89	31.32	34.12	<=37	Pass
		Inner 1RB Right	17.55	19.06	21.38	31.87	33.41	35.72	<=37	Pass
CP-OFDM 256 QAM	3600	Edge 1RB Left	16.30	17.63	20.03	30.62	31.98	34.36	<=37	Pass
		Edge 1RB Right	17.01	15.80	19.46	31.33	30.15	33.79	<=37	Pass
		Outer Full	1.34	0.68	4.03	15.66	15.03	18.37	<=37	Pass
		Inner Full	2.85	3.41	6.15	17.17	17.76	20.49	<=37	Pass
		Inner 1RB Left	18.03	19.34	21.74	32.35	33.69	36.08	<=37	Pass
		Inner 1RB Right	17.97	17.83	20.91	32.29	32.18	35.25	<=37	Pass
	3624.99	Edge 1RB Left	17.50	18.21	20.88	31.82	32.56	35.22	<=37	Pass
		Edge 1RB Right	16.36	19.08	20.94	30.68	33.43	35.28	<=37	Pass
		Outer Full	0.85	1.47	4.18	15.17	15.82	18.52	<=37	Pass
		Inner Full	2.17	2.88	5.55	16.49	17.23	19.89	<=37	Pass
		Inner 1RB Left	19.12	18.03	21.62	33.44	32.38	35.95	<=37	Pass
		Inner 1RB Right	17.79	17.69	20.75	32.11	32.04	35.09	<=37	Pass
	3649.98	Edge 1RB Left	18.50	17.25	20.93	32.82	31.60	35.26	<=37	Pass
		Edge 1RB Right	18.16	14.60	19.75	32.48	28.95	34.07	<=37	Pass
		Outer Full	-0.91	-0.12	2.51	13.41	14.23	16.85	<=37	Pass
		Inner Full	2.40	2.06	5.24	16.72	16.41	19.58	<=37	Pass
		Inner 1RB Left	16.42	16.63	19.54	30.74	30.98	33.87	<=37	Pass
		Inner 1RB Right	16.87	16.94	19.92	31.19	31.29	34.25	<=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



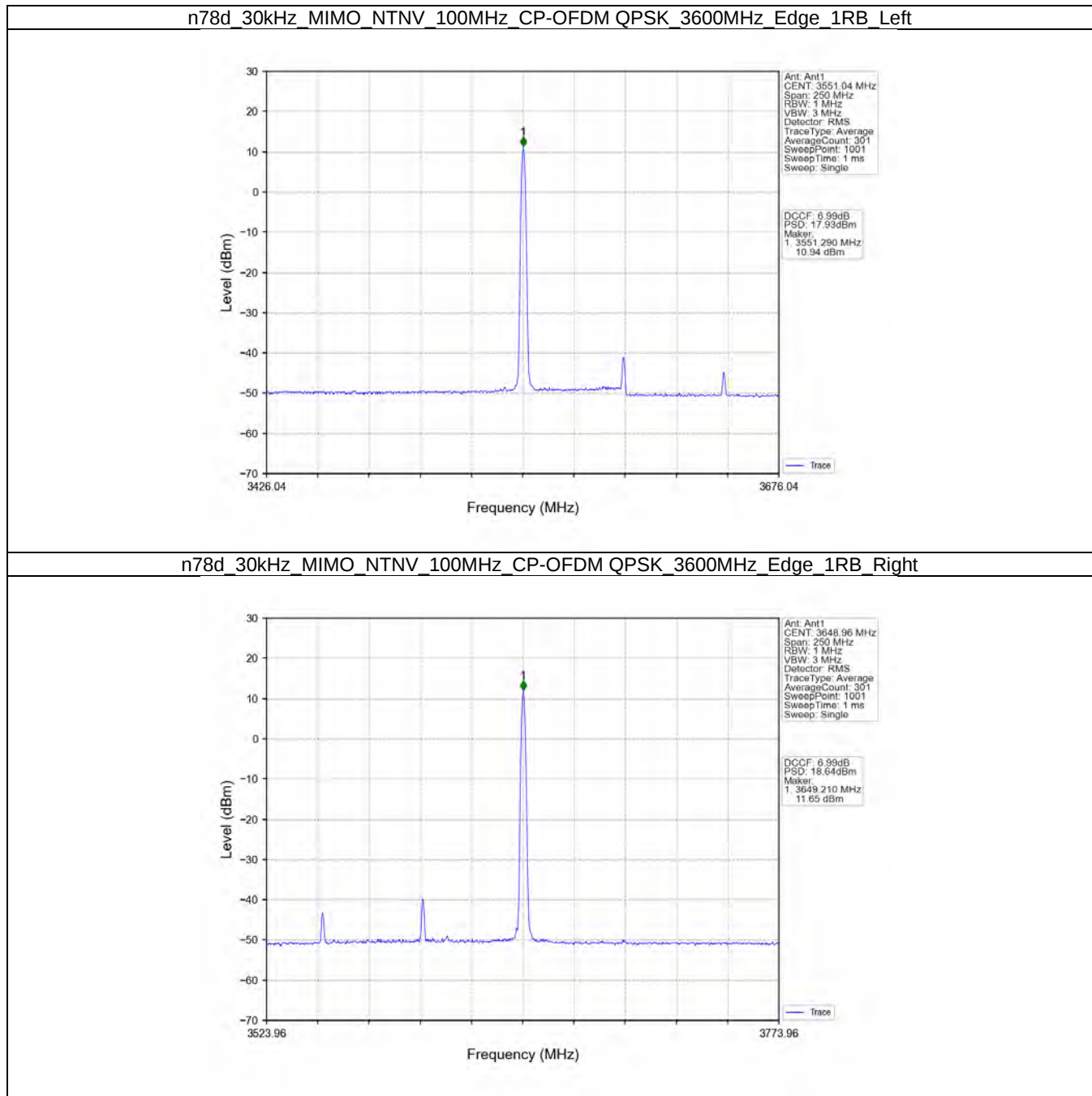
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2.33.2 Test Graph for ANT1



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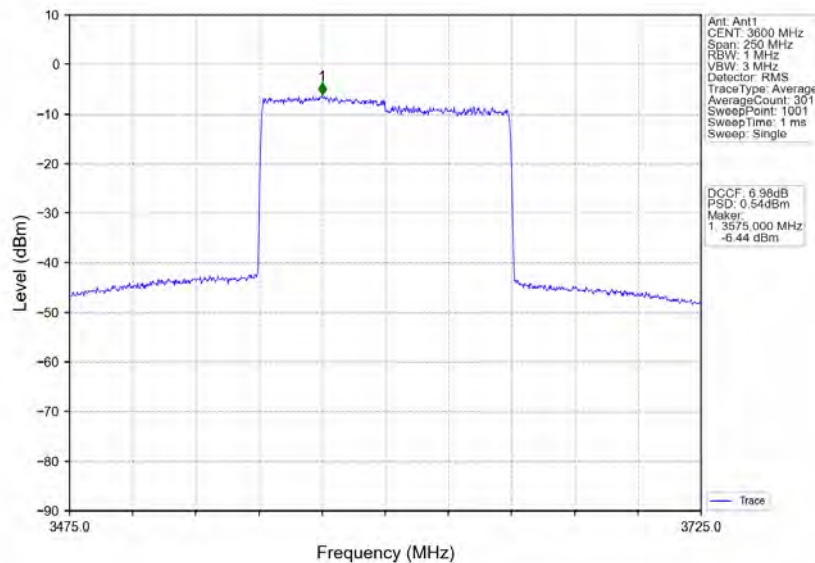
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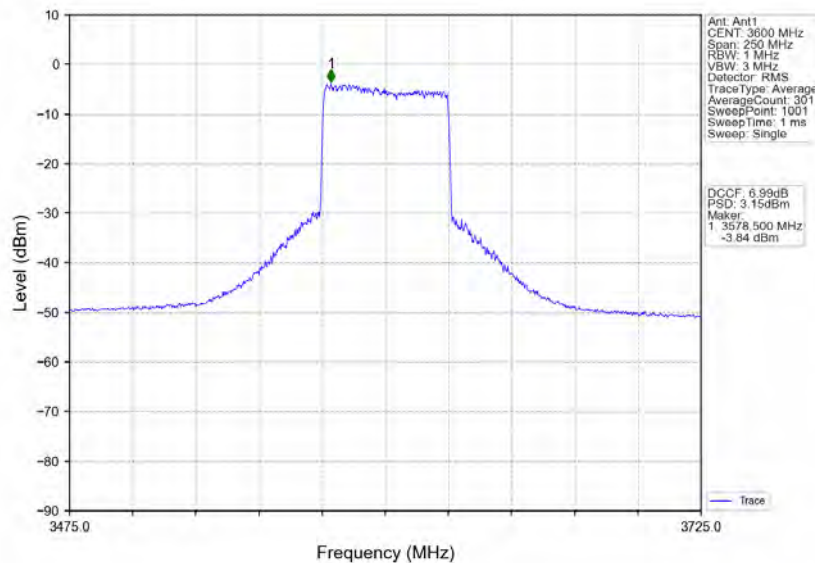
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3600MHz_Inner_Full



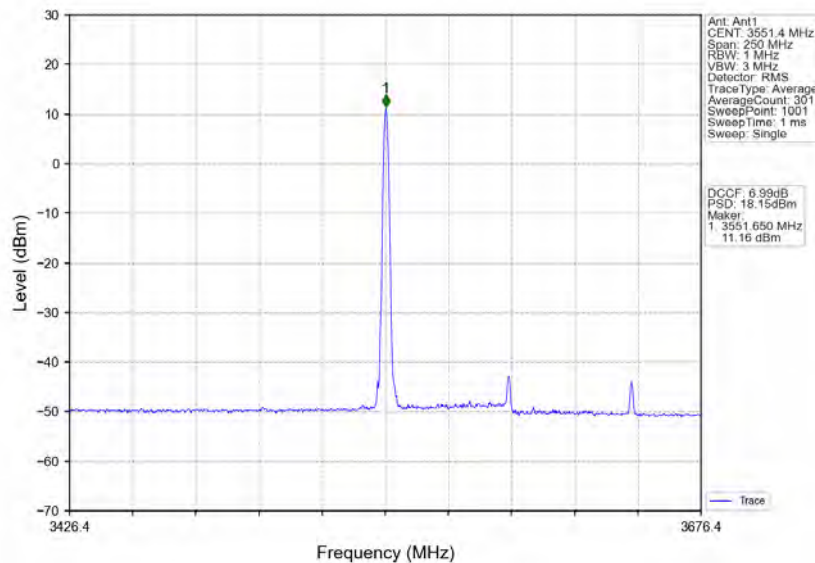
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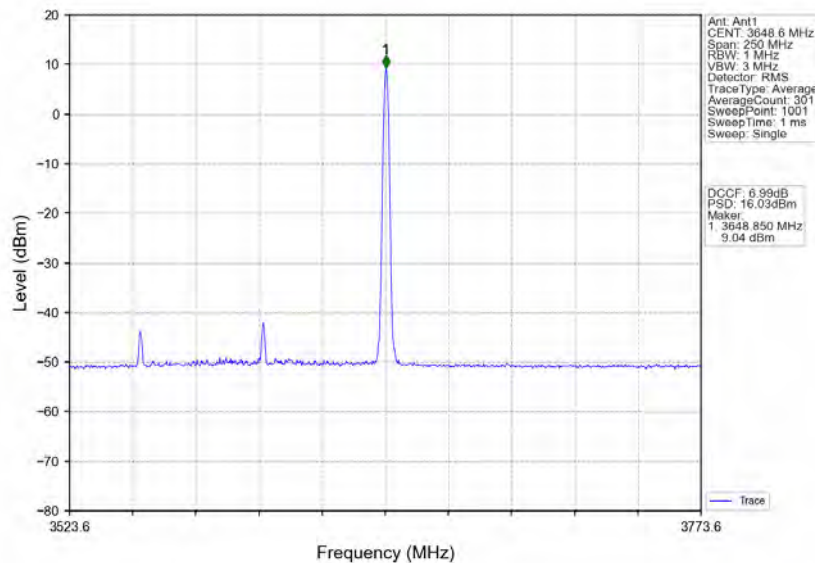
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3600MHz_Inner_1RB_Right



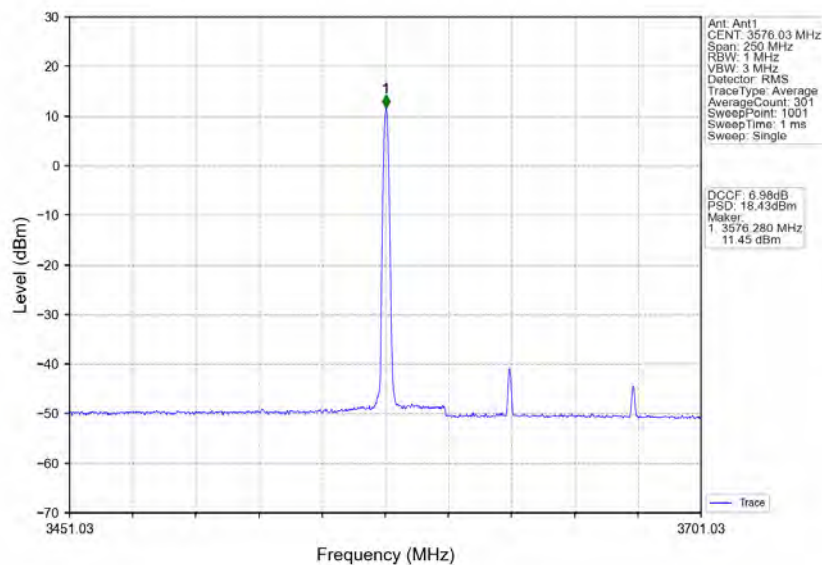
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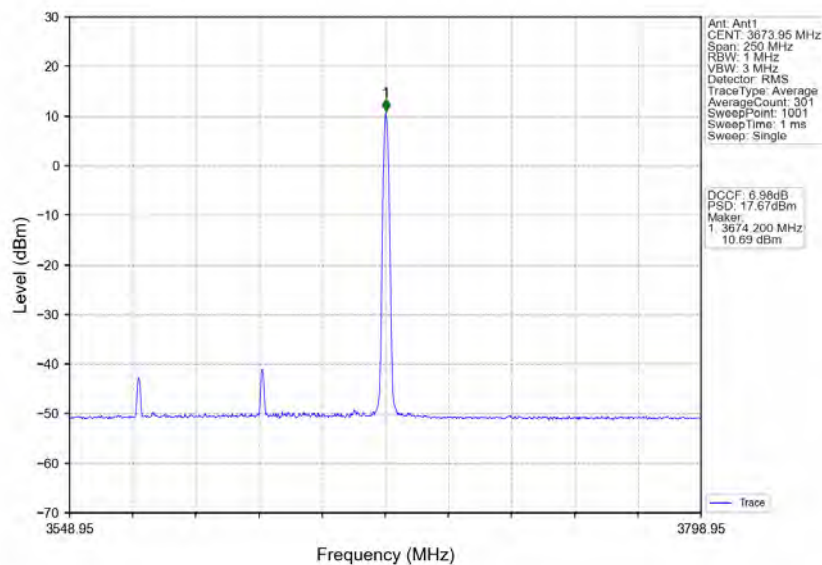
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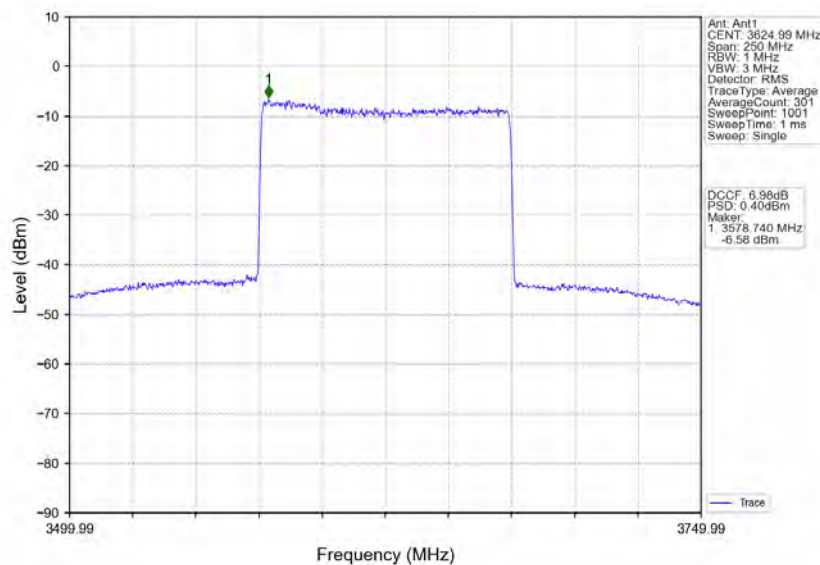
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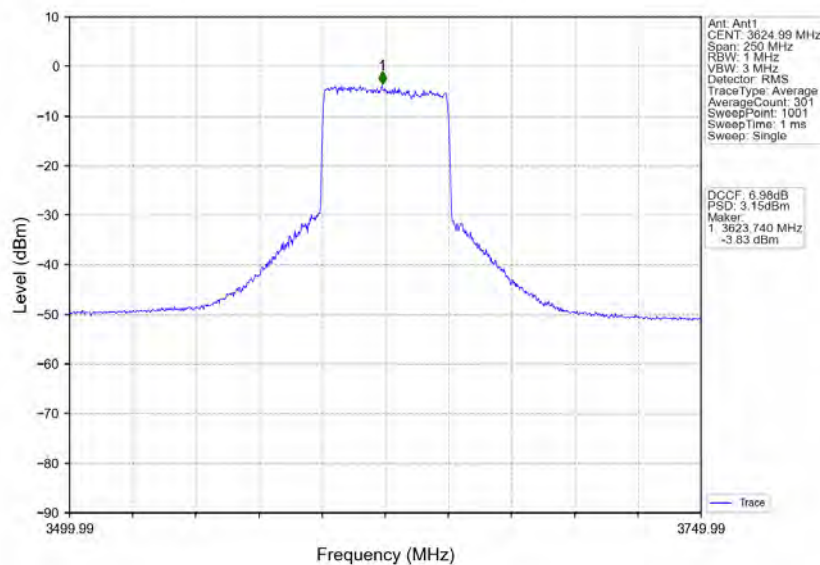
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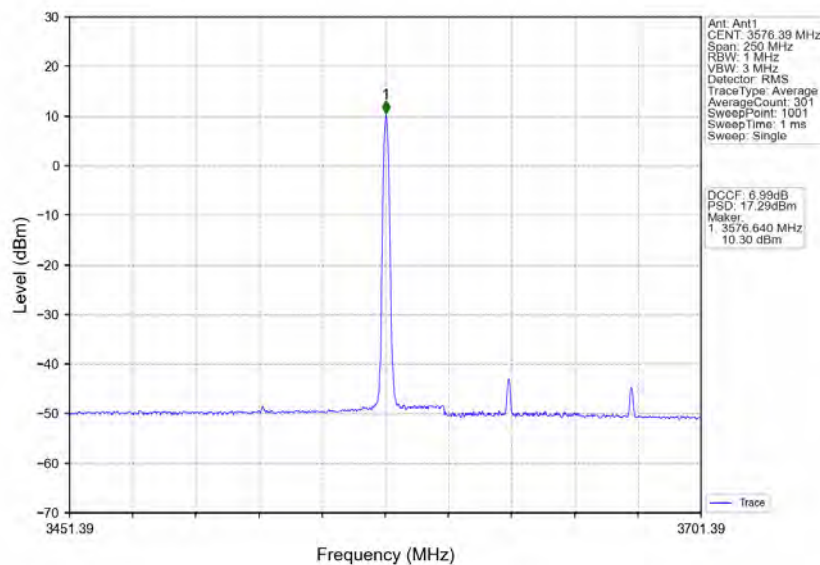
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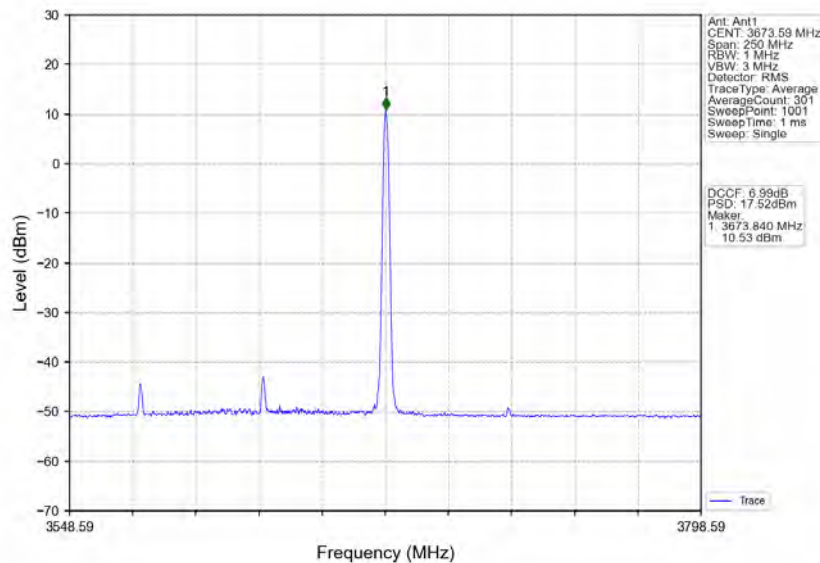
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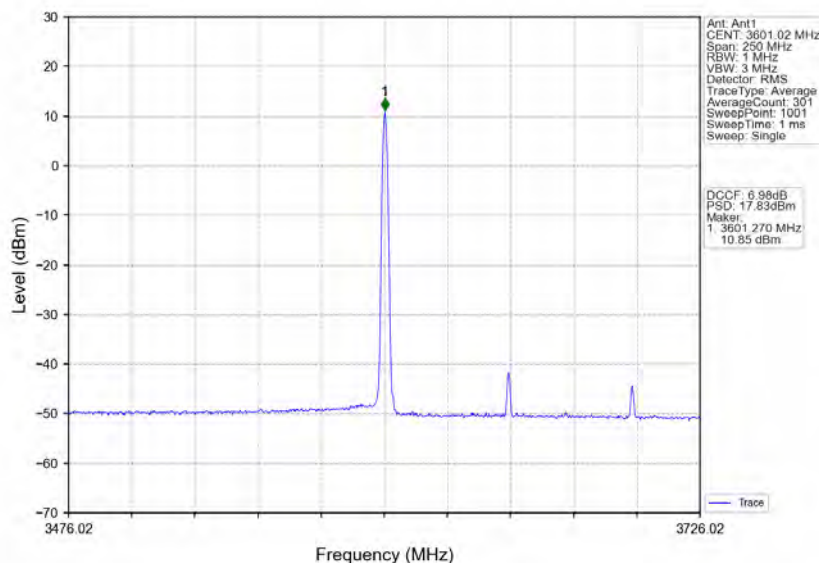
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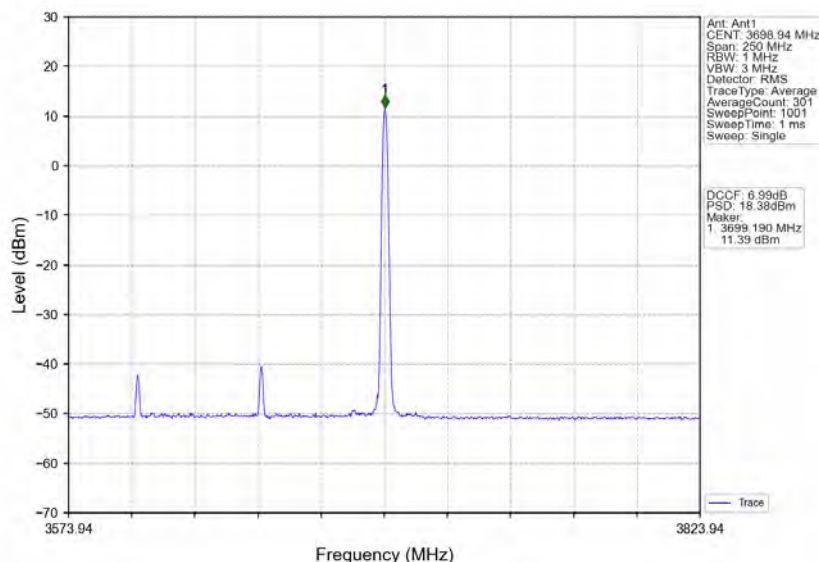
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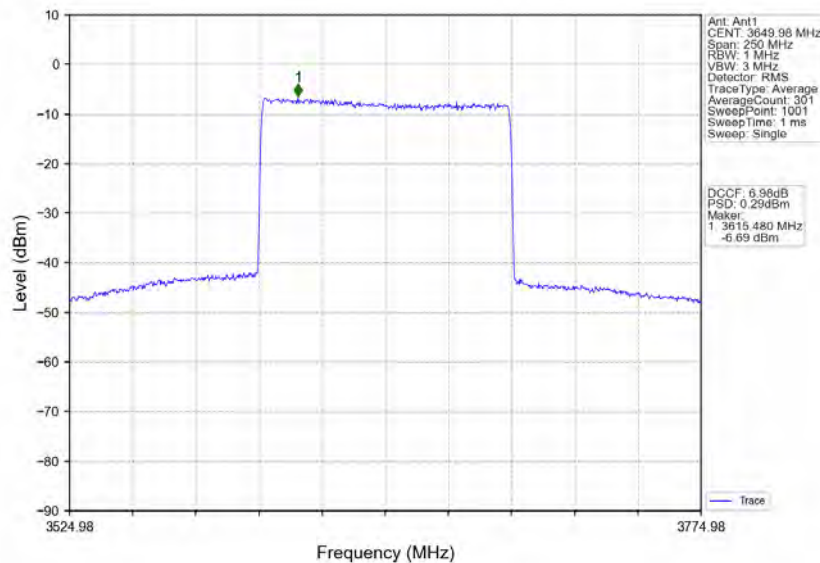
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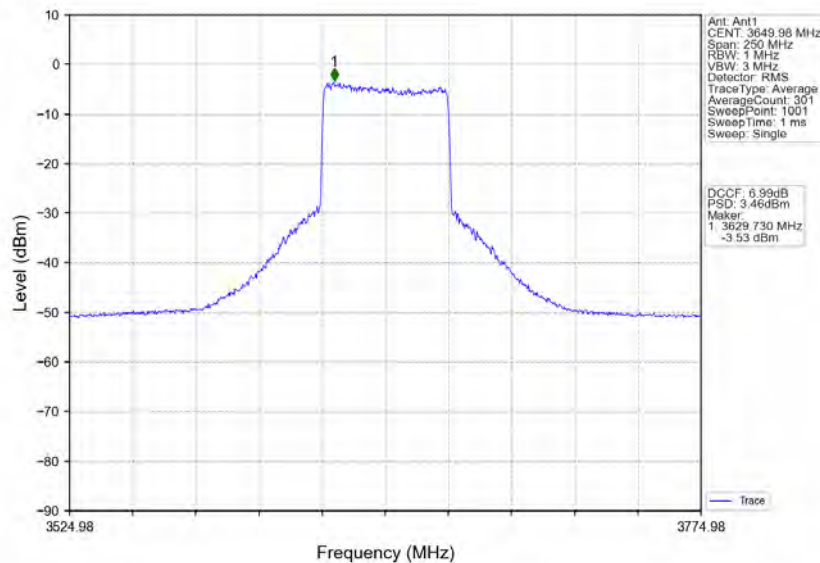
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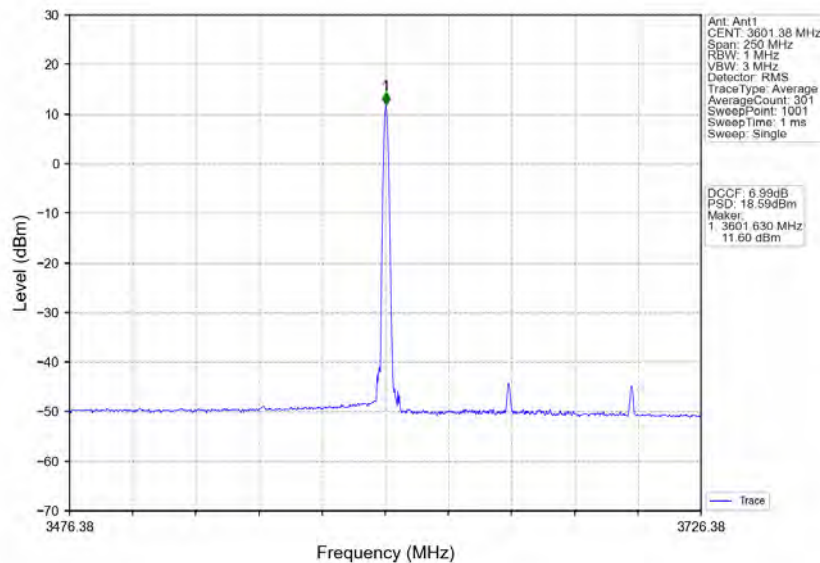
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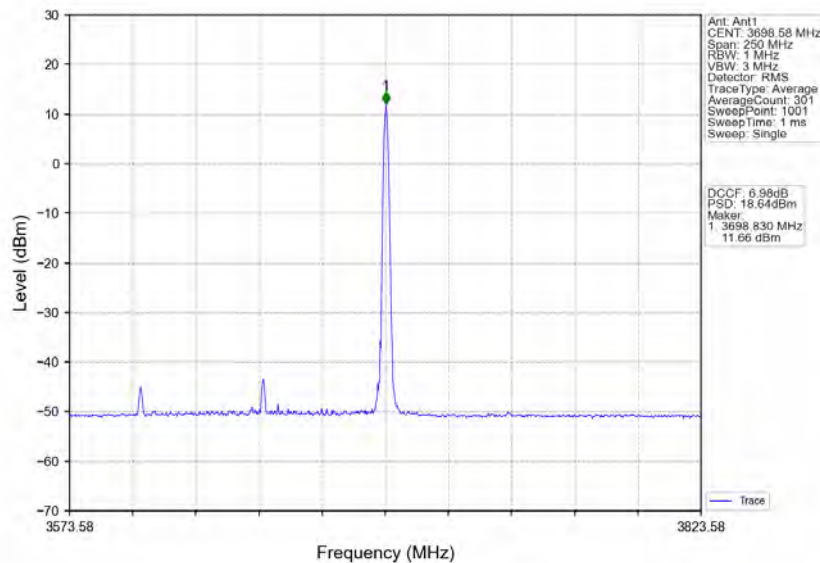
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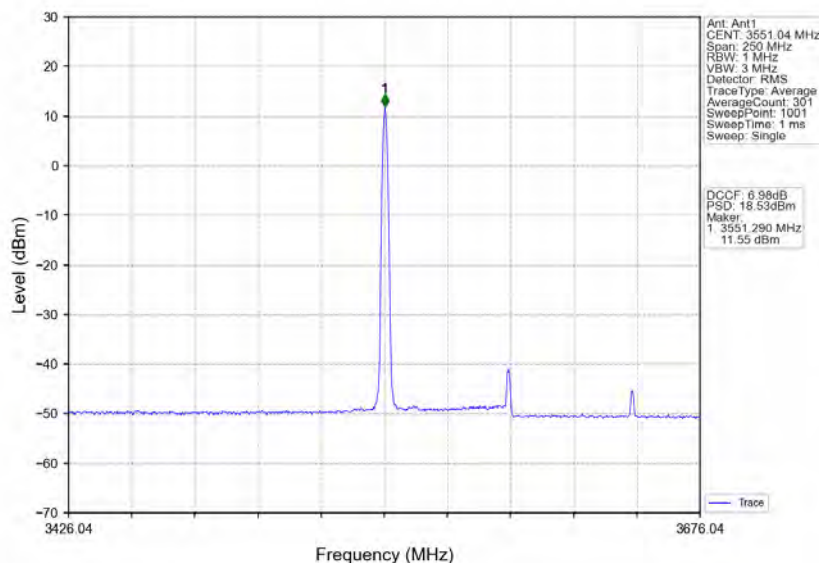
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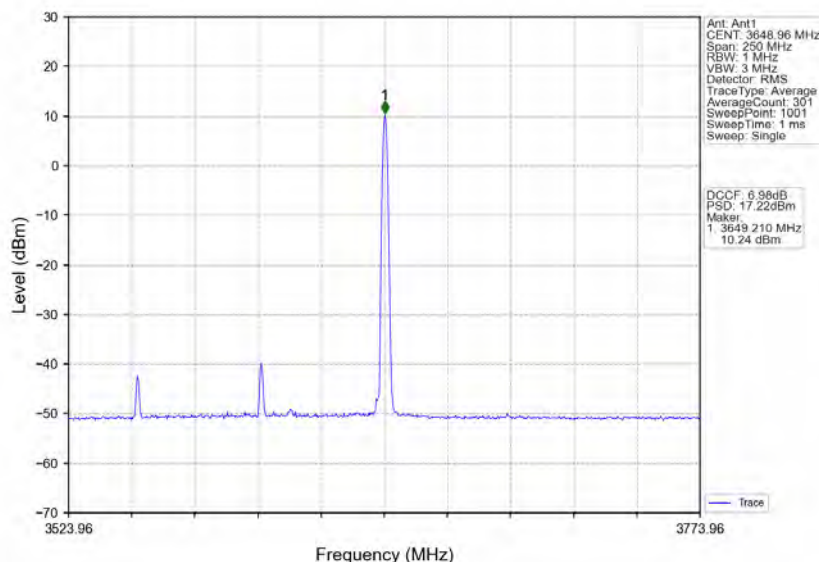
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_16_QAM_3600MHz_Edge_1RB_Left



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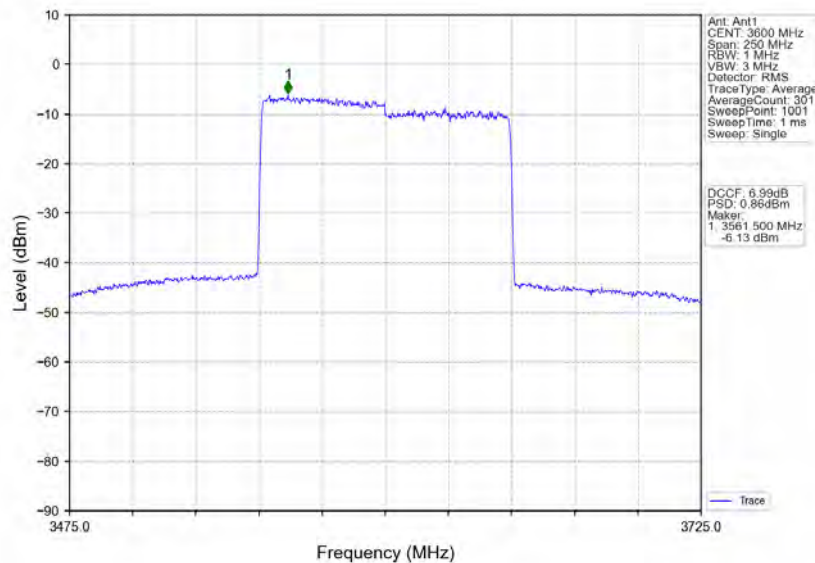
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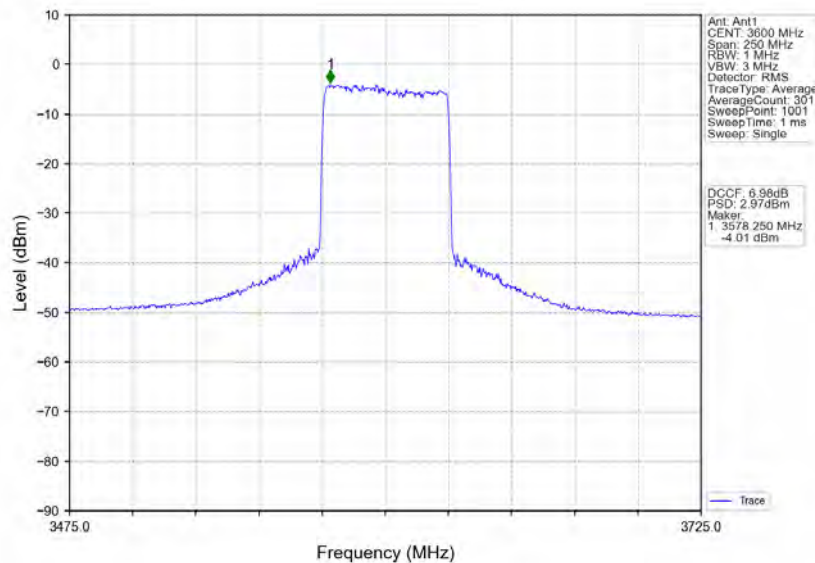
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_16_QAM_3600MHz_Outer_Full



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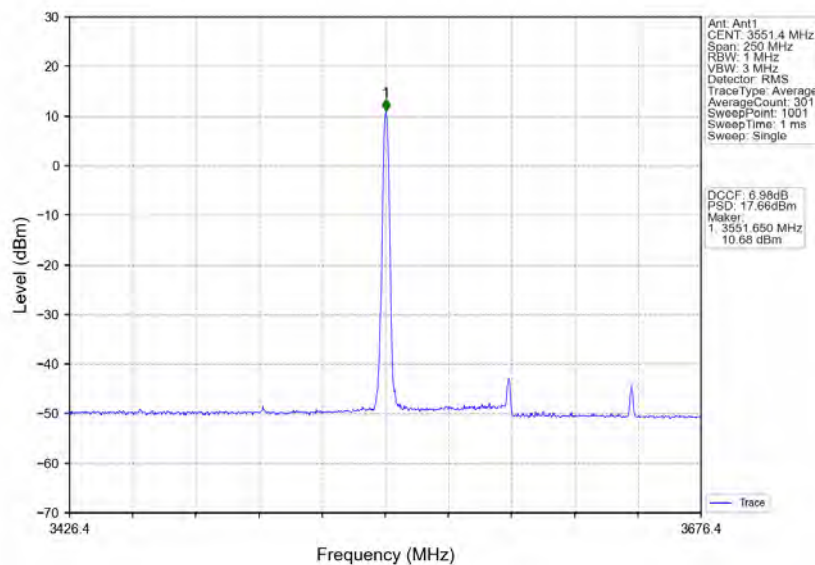
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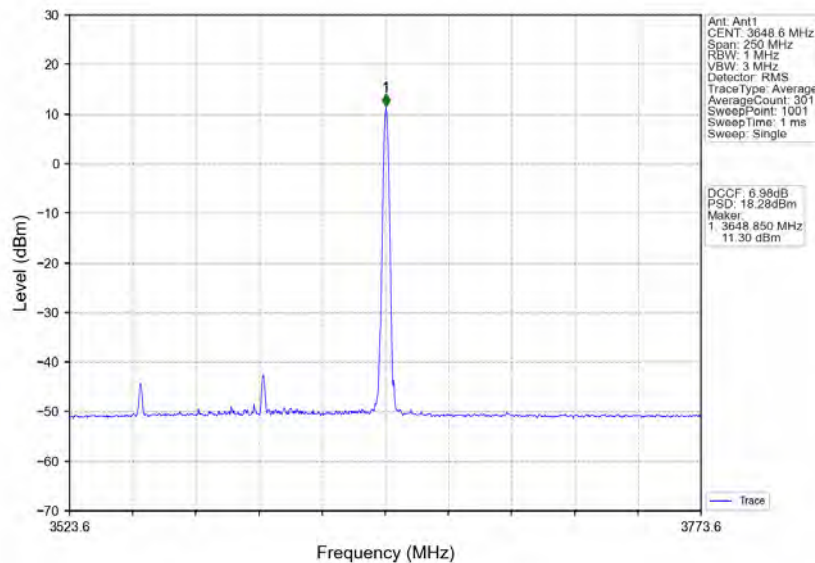
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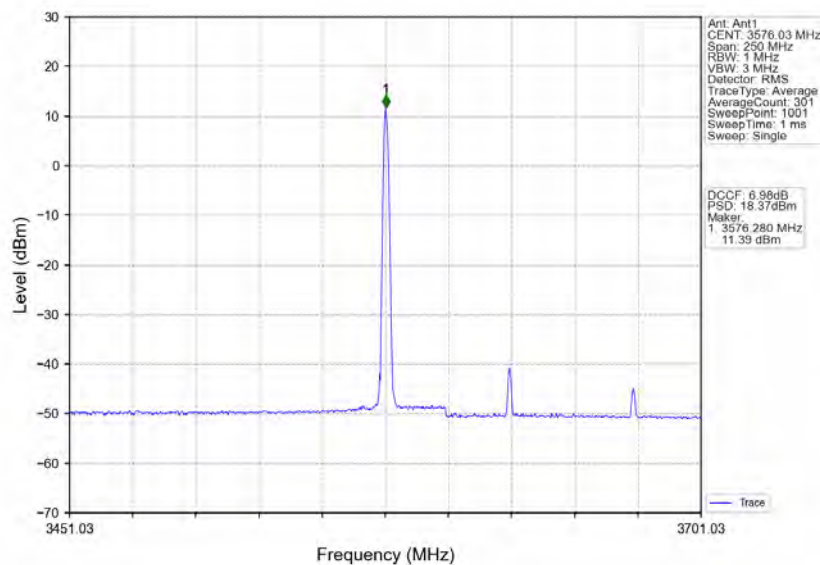
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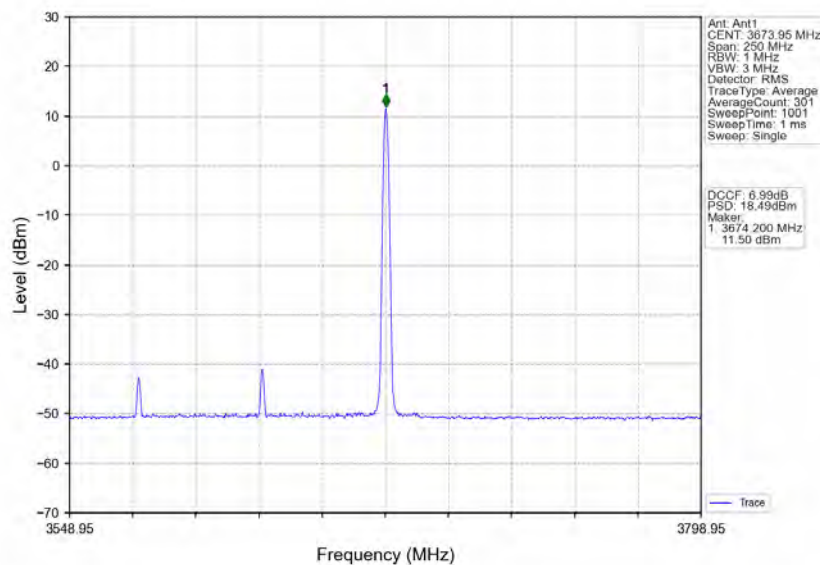
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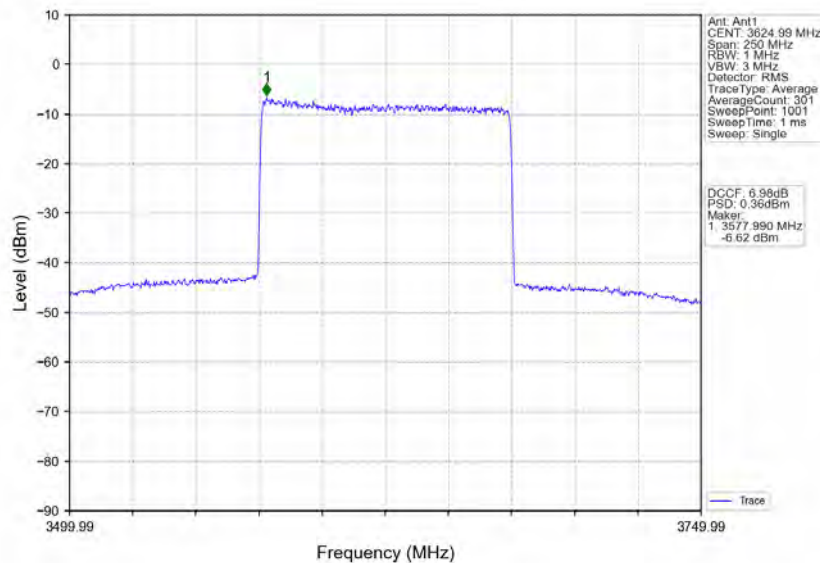
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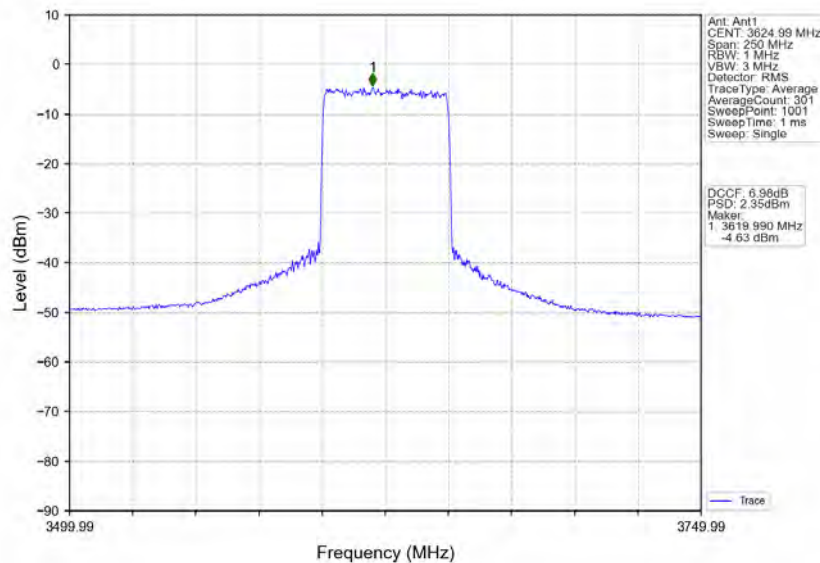
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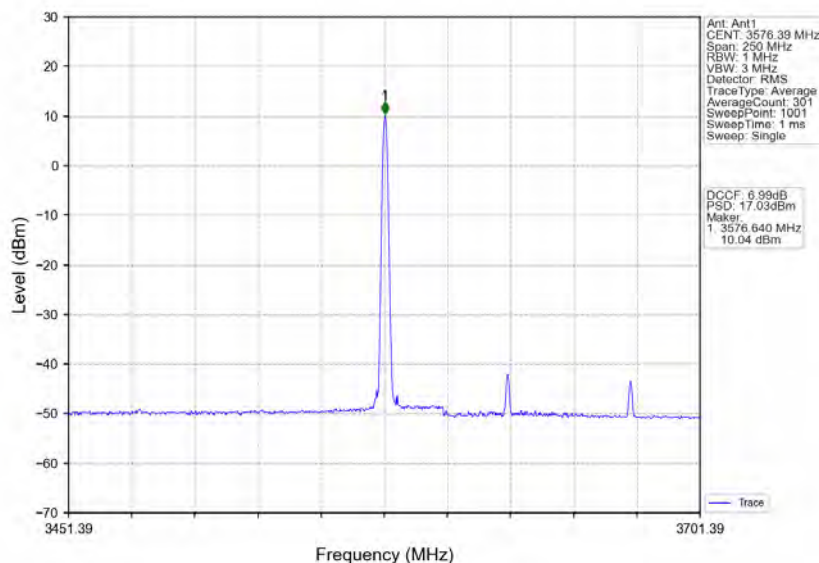
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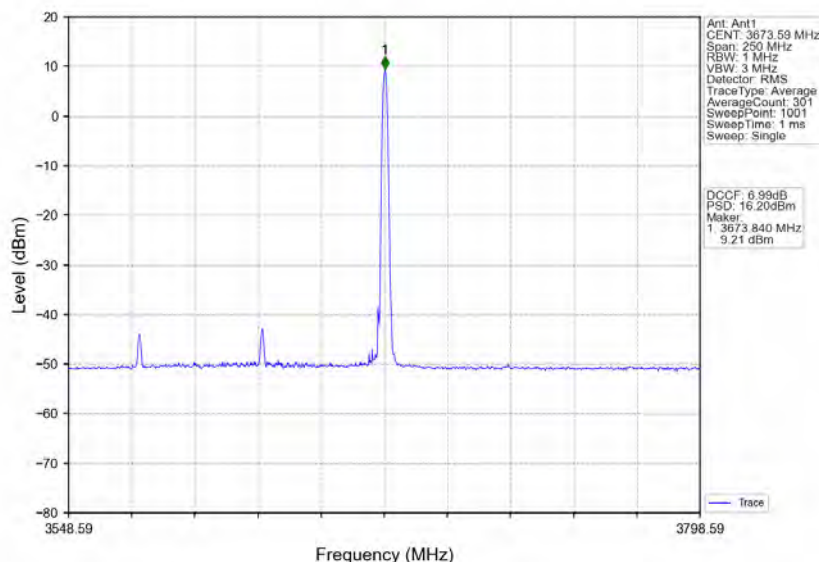
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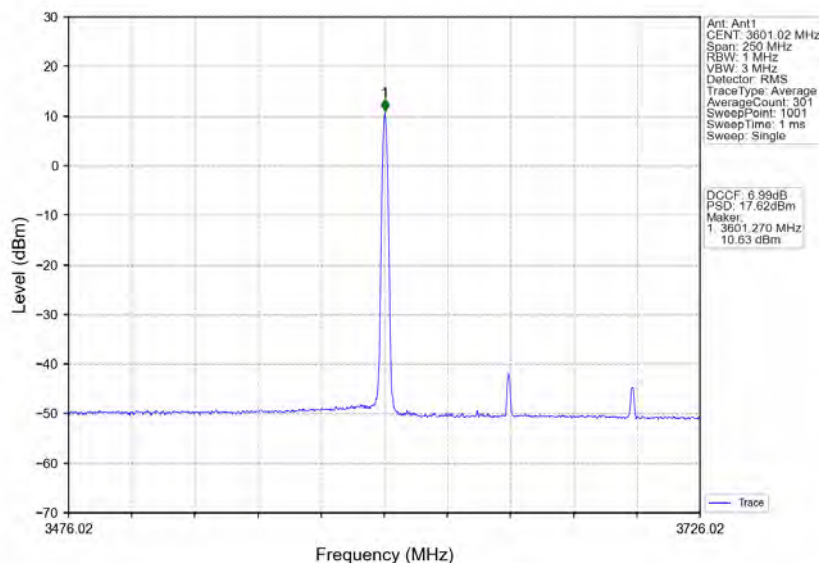
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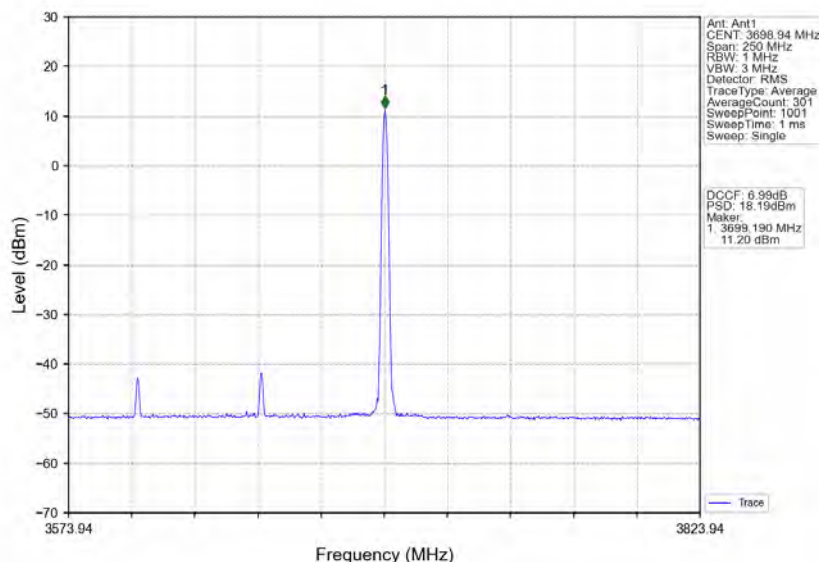
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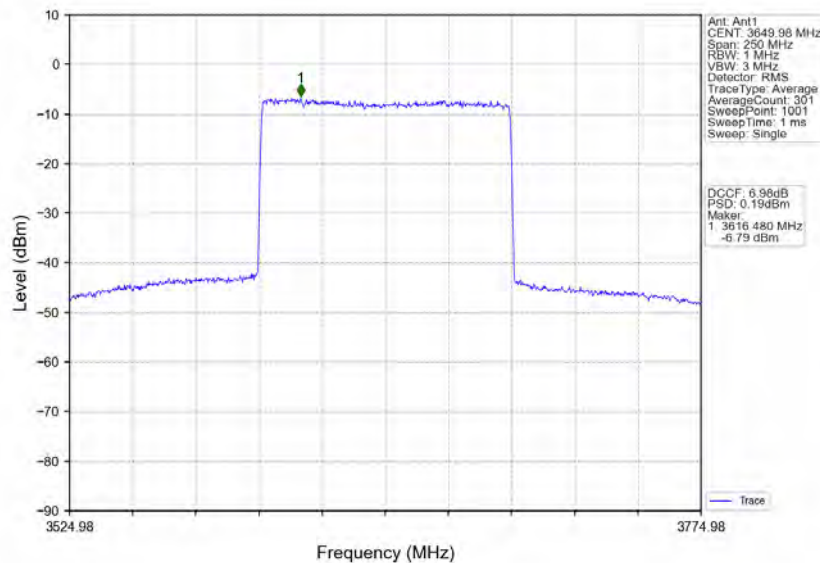
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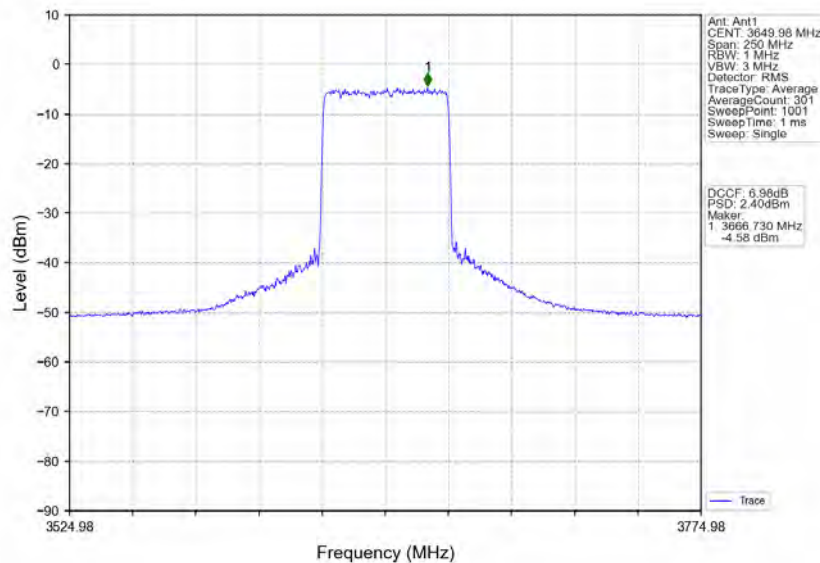
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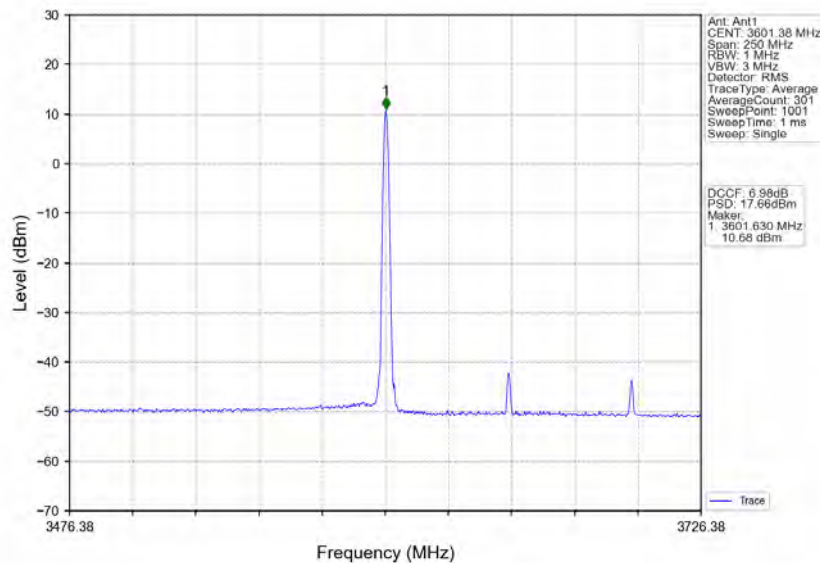
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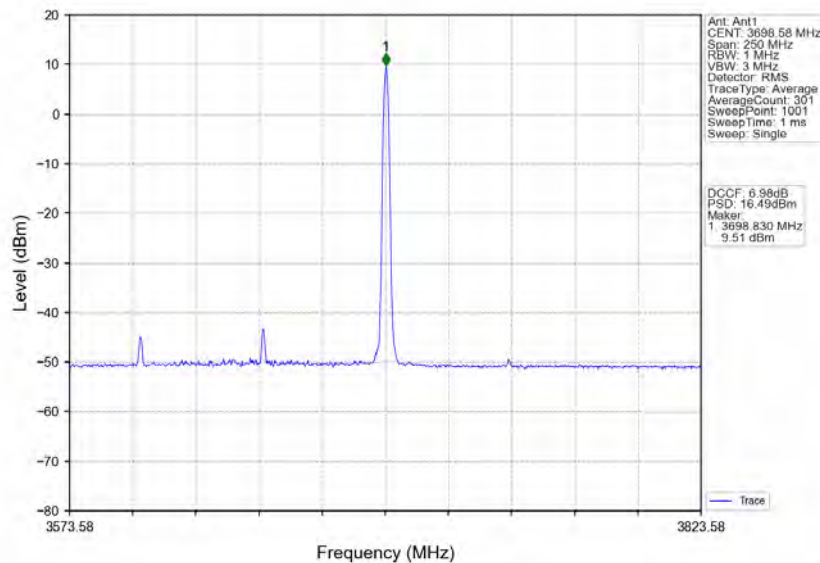
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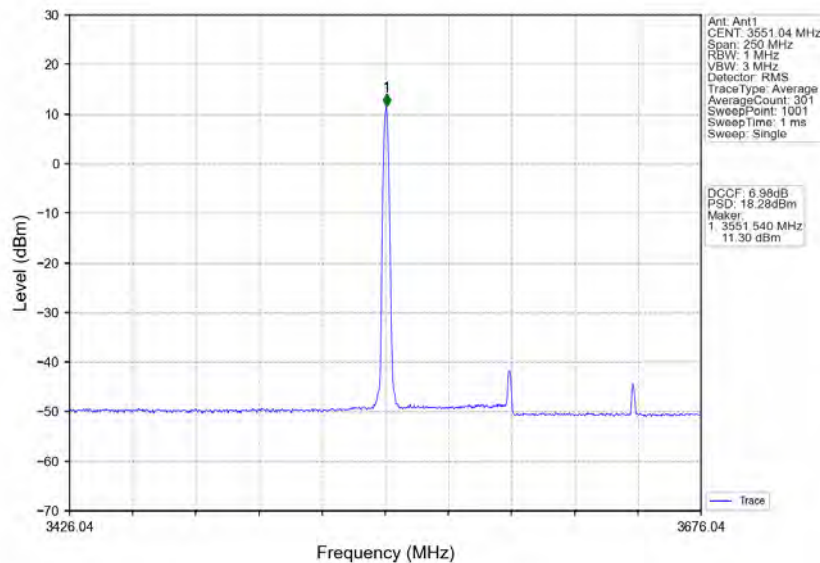
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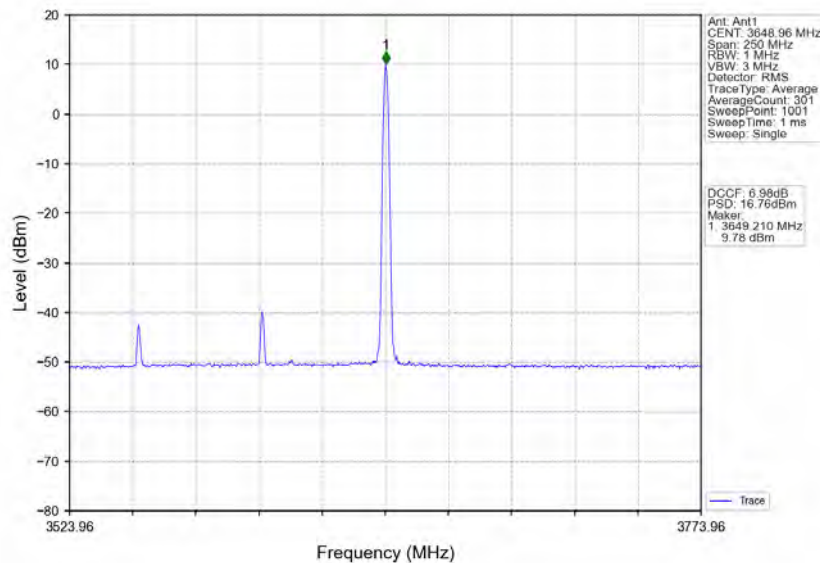
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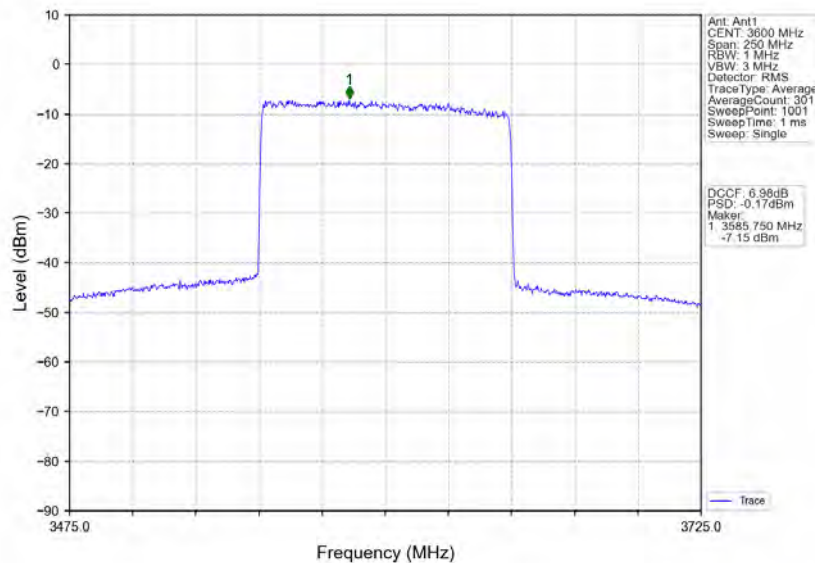
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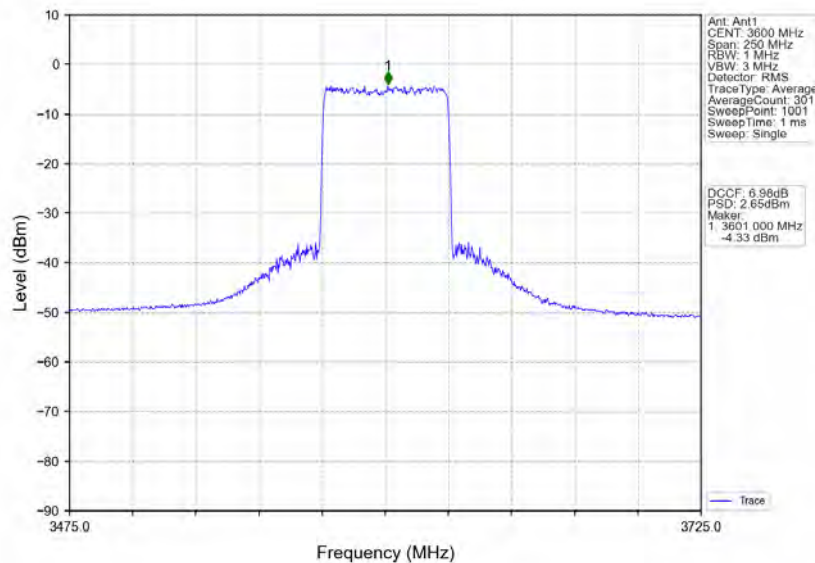
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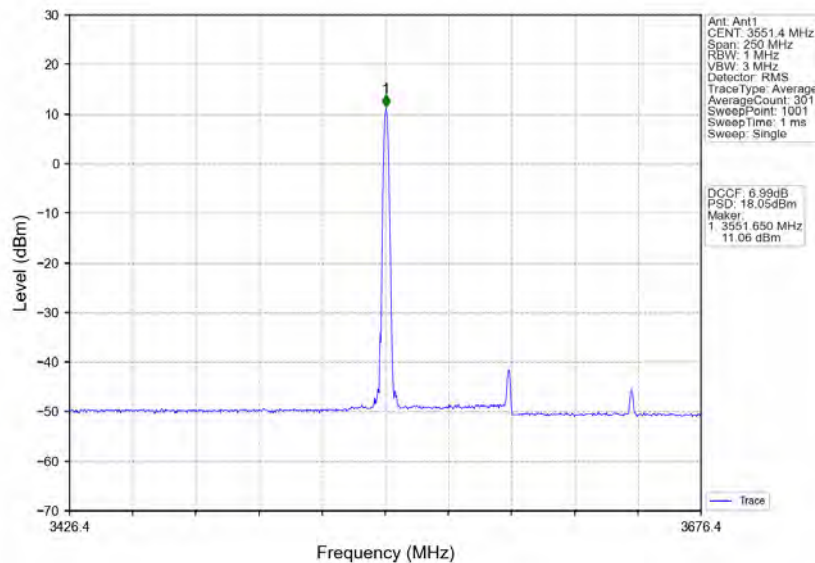
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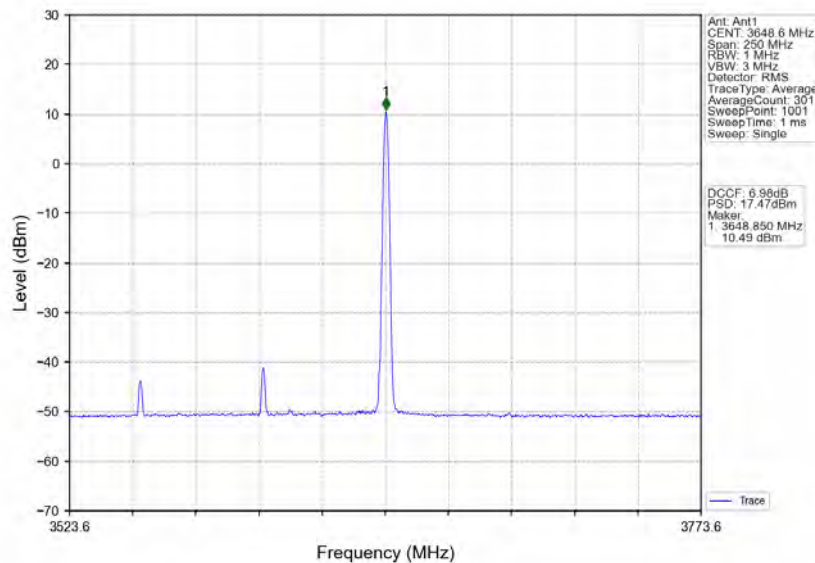
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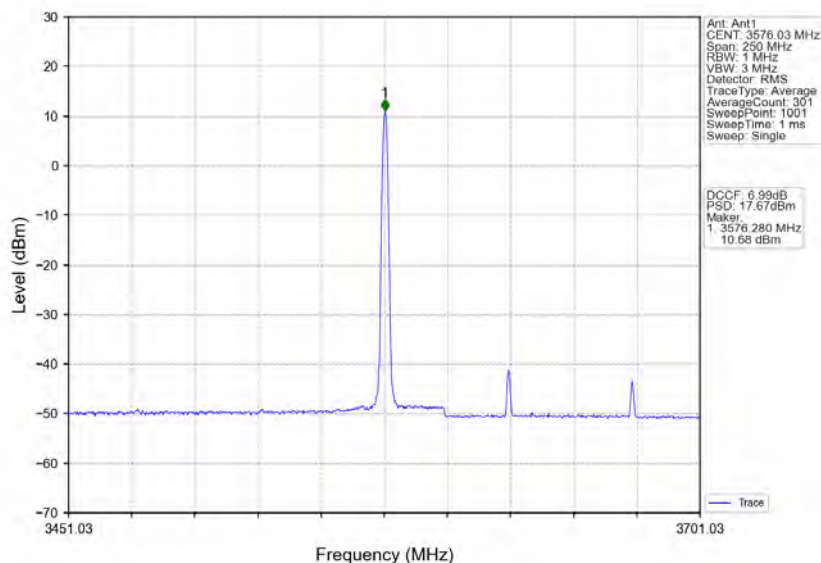
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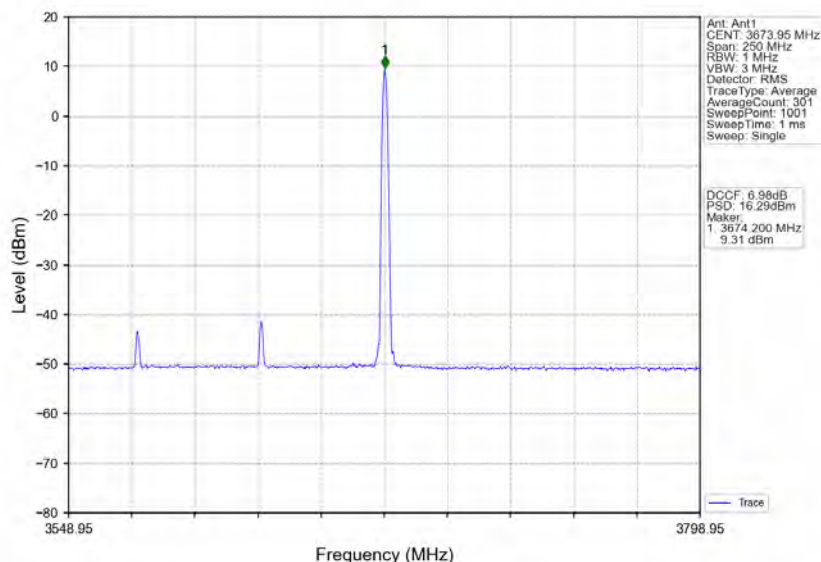
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 64 QAM 3624.99MHz_Edge_1RB_Left



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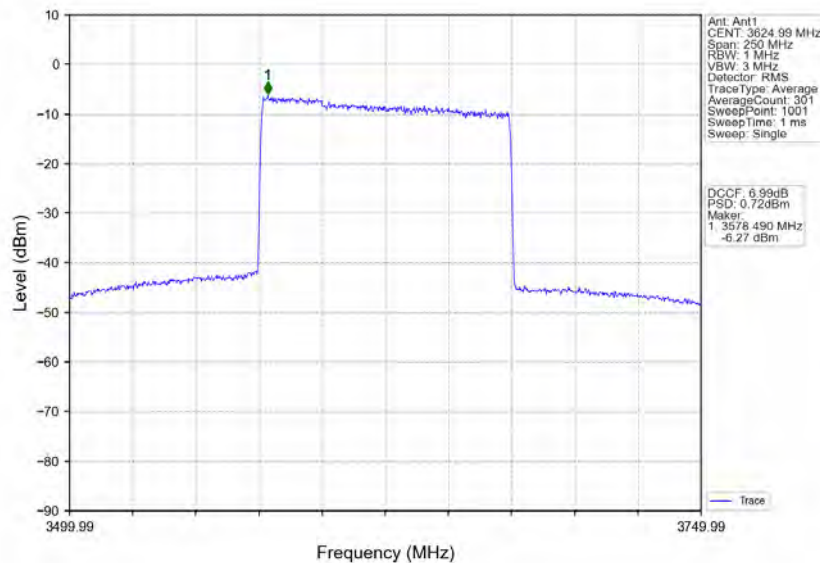
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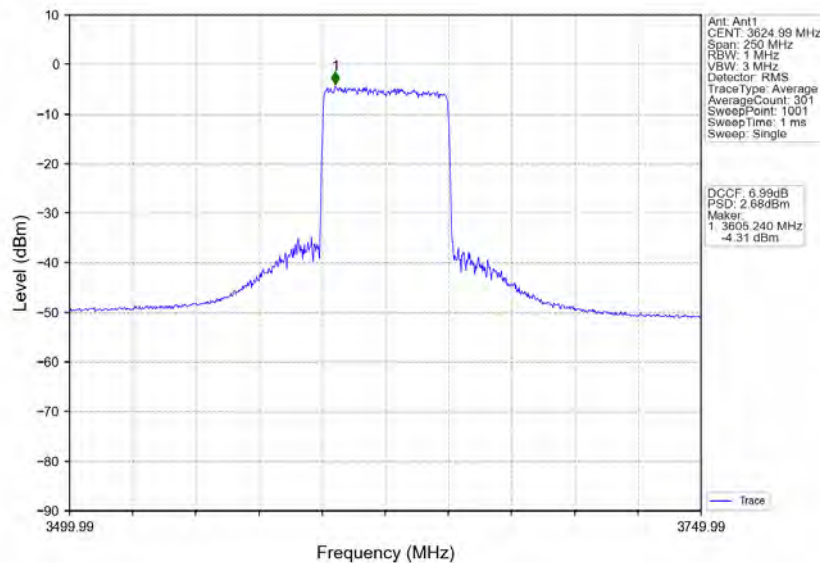
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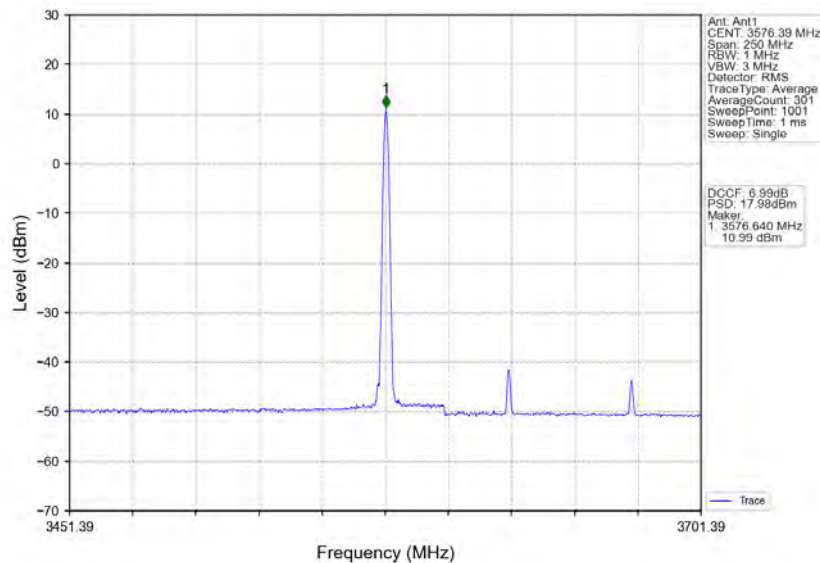
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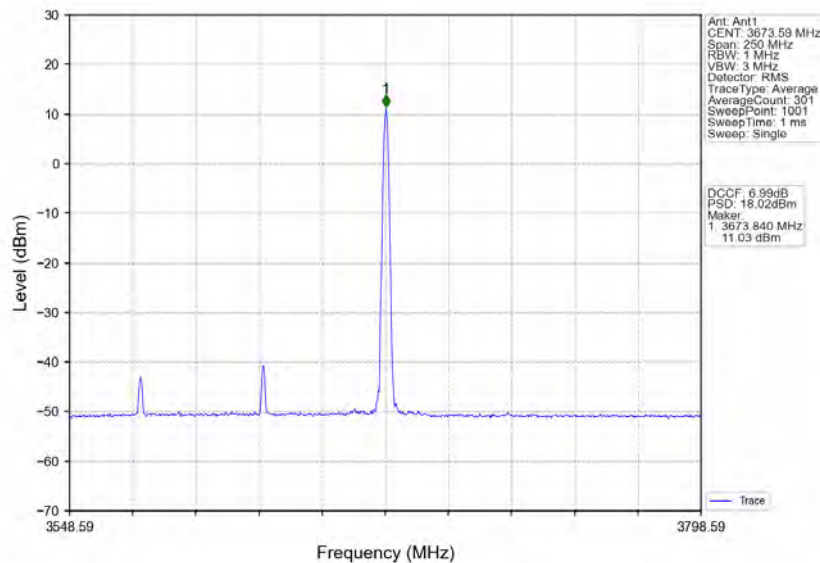
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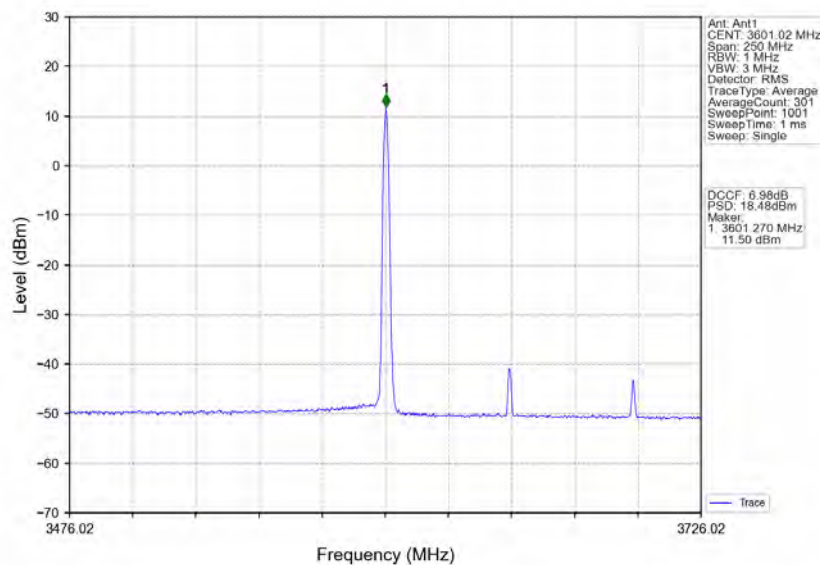
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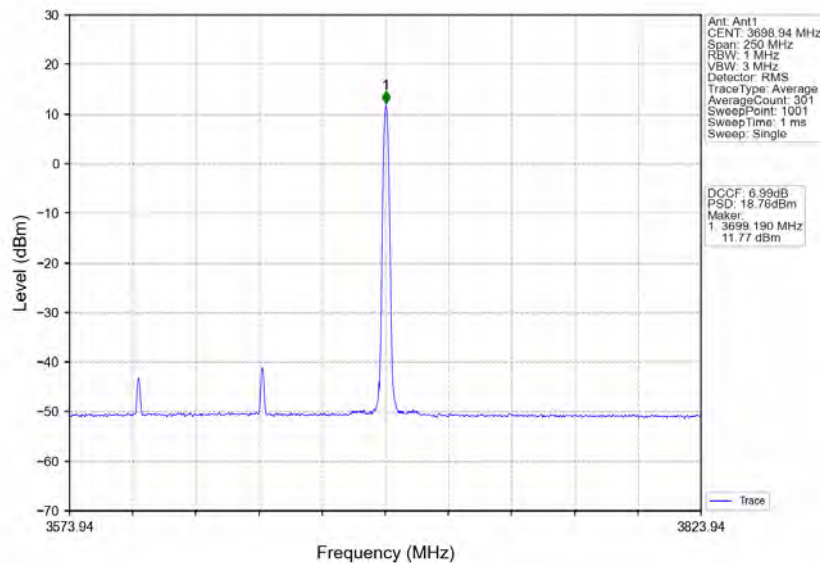
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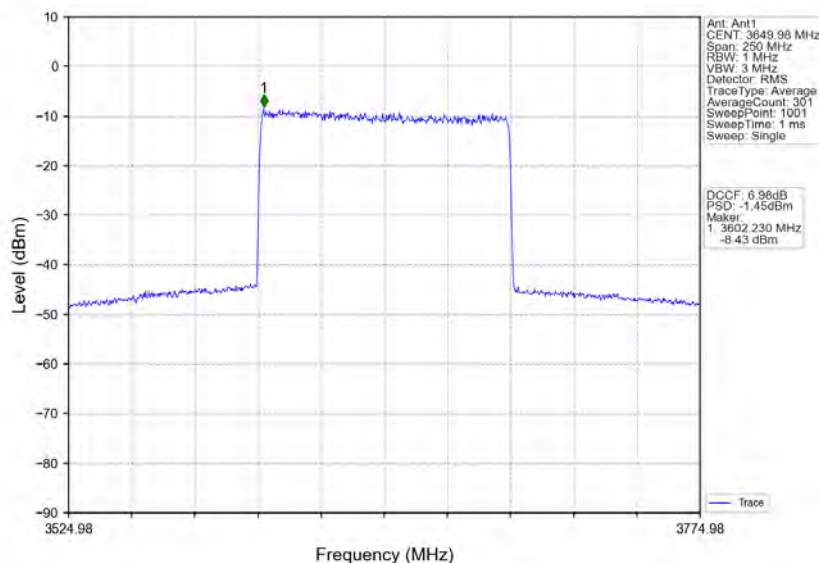
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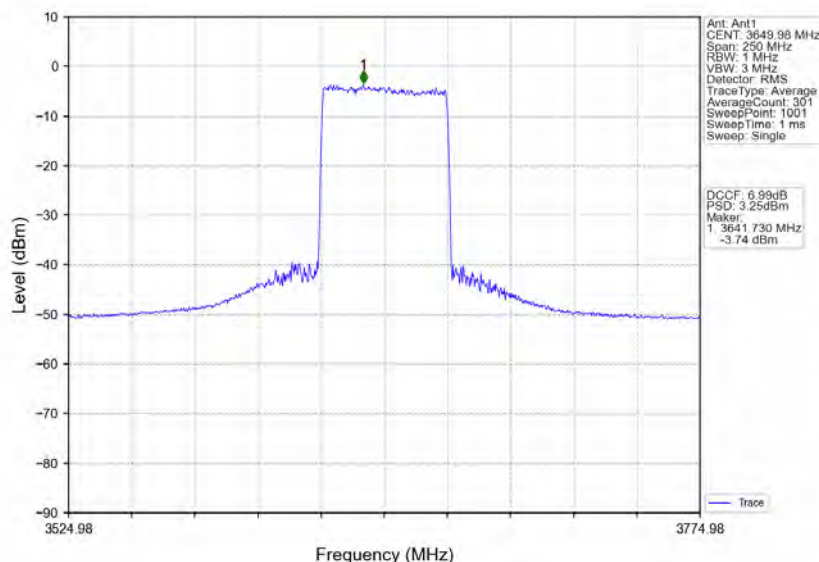
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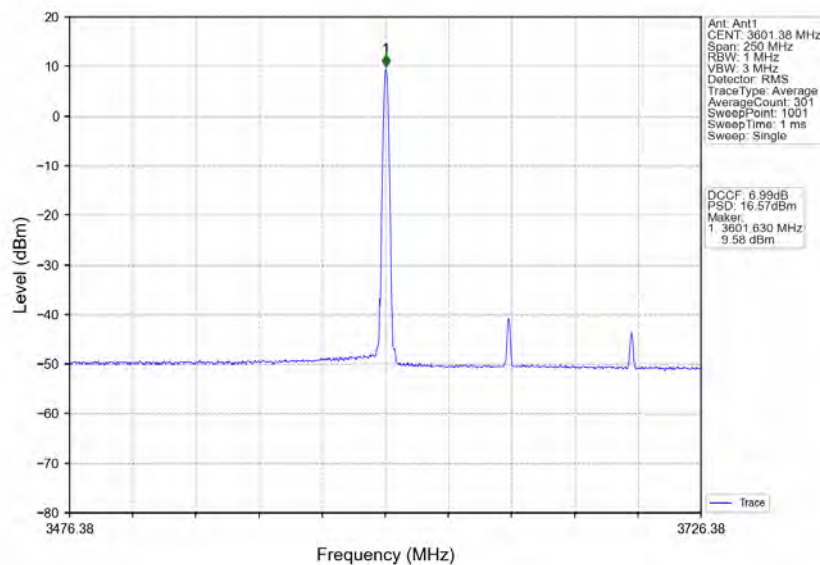
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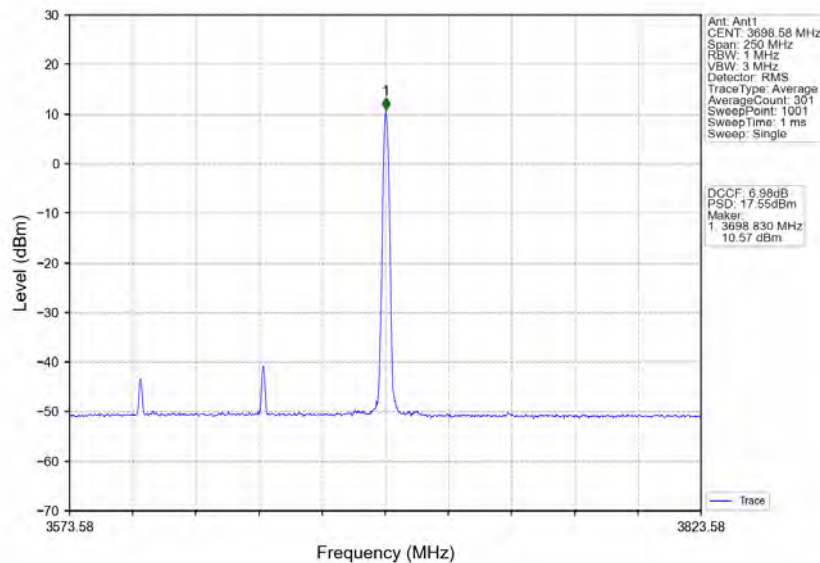
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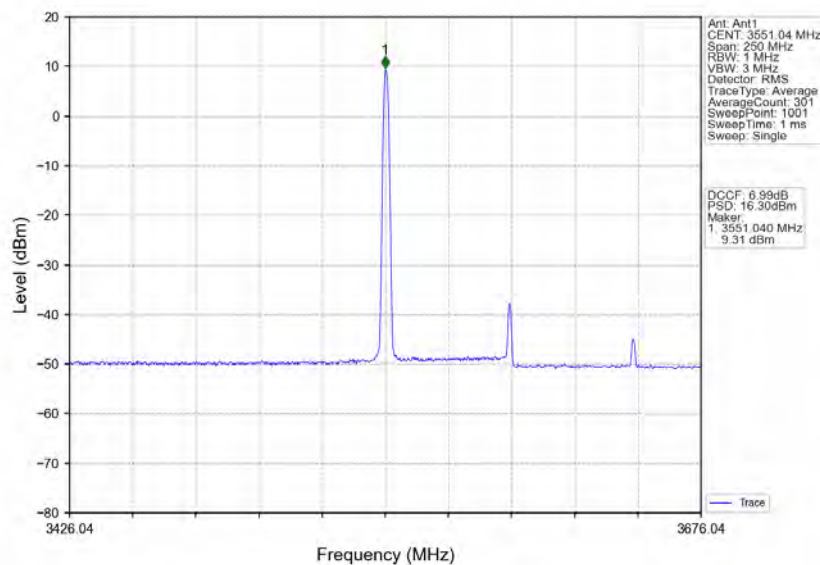
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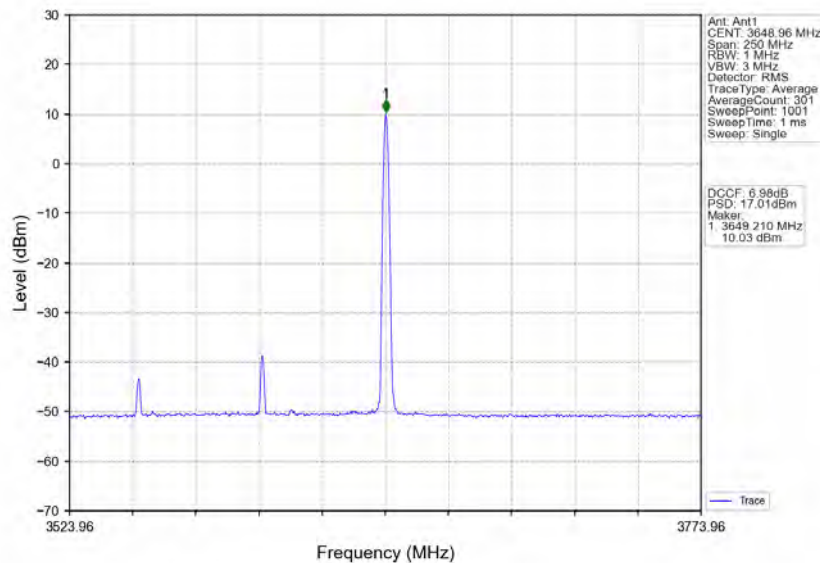
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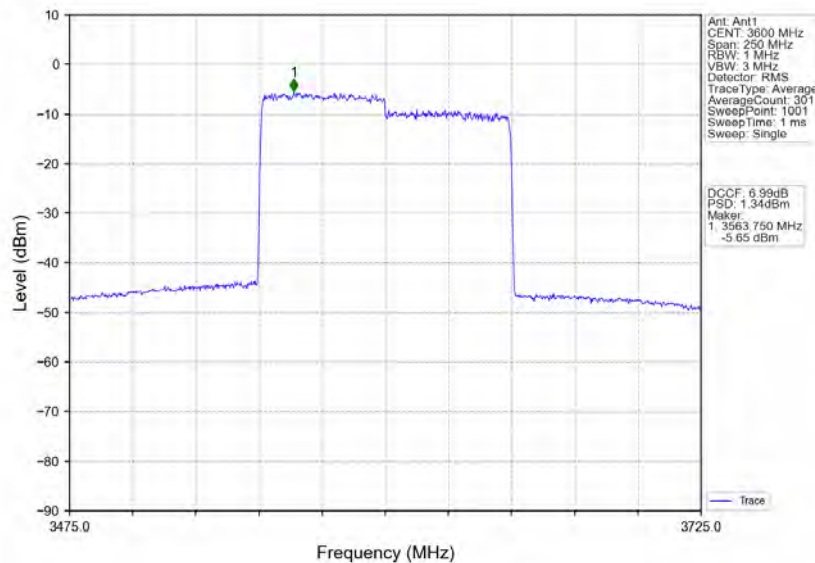
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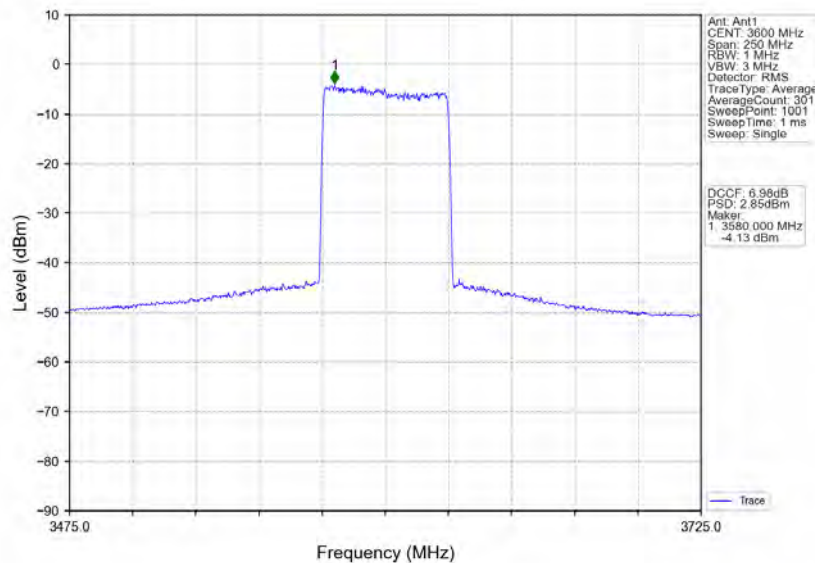
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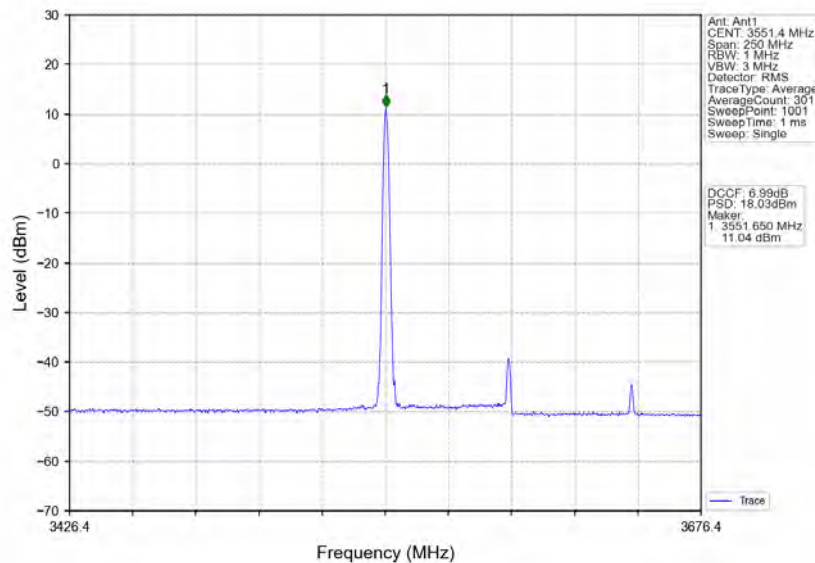
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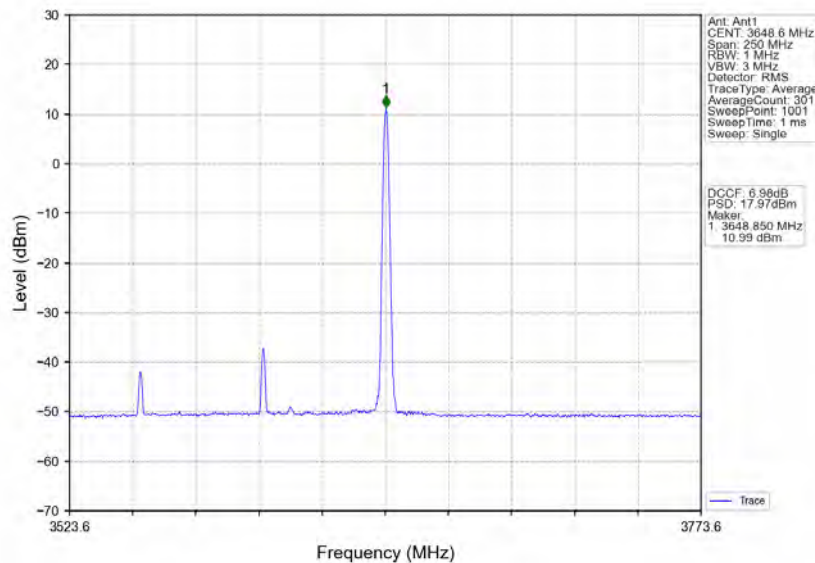
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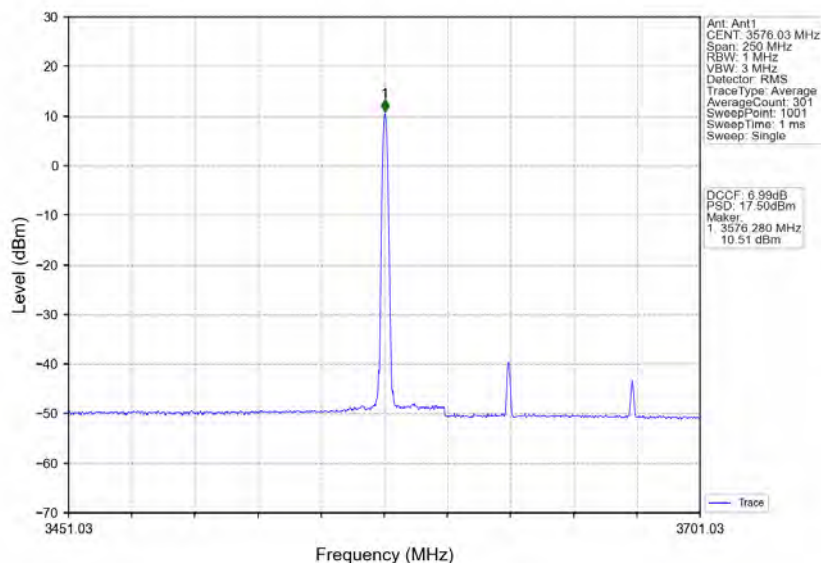
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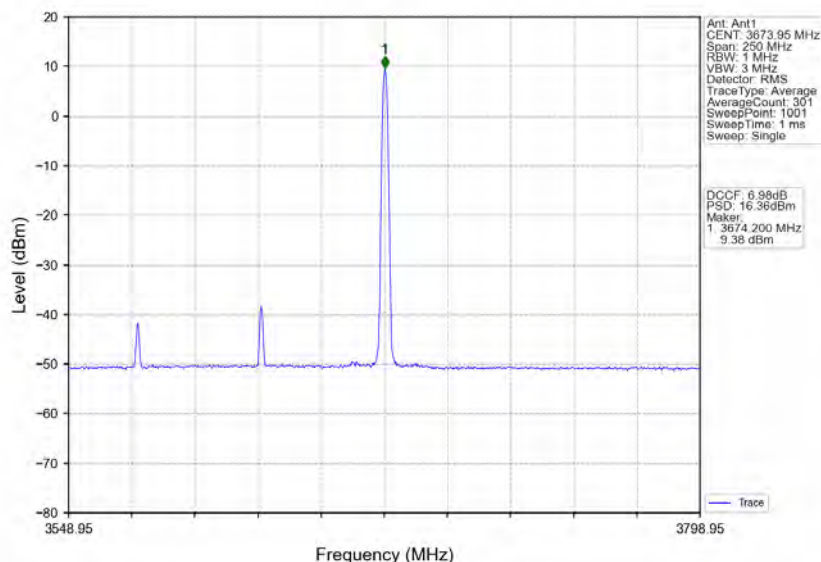
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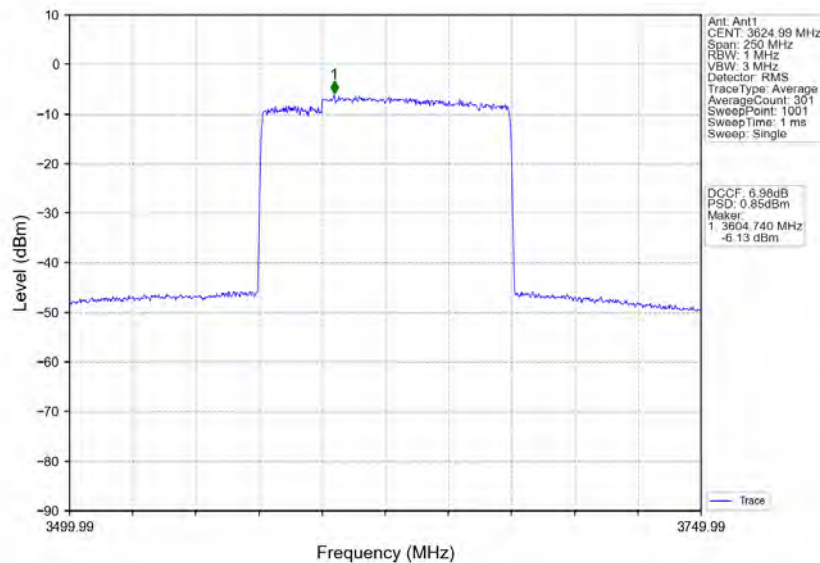
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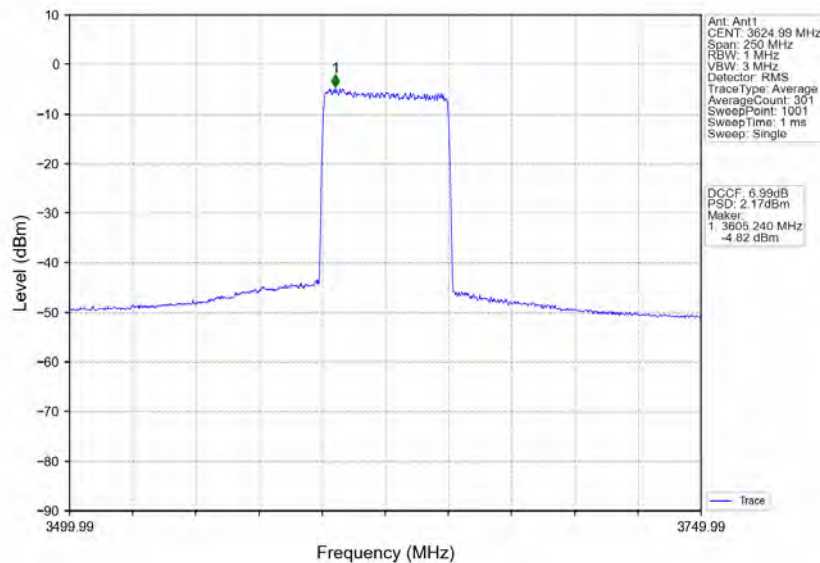
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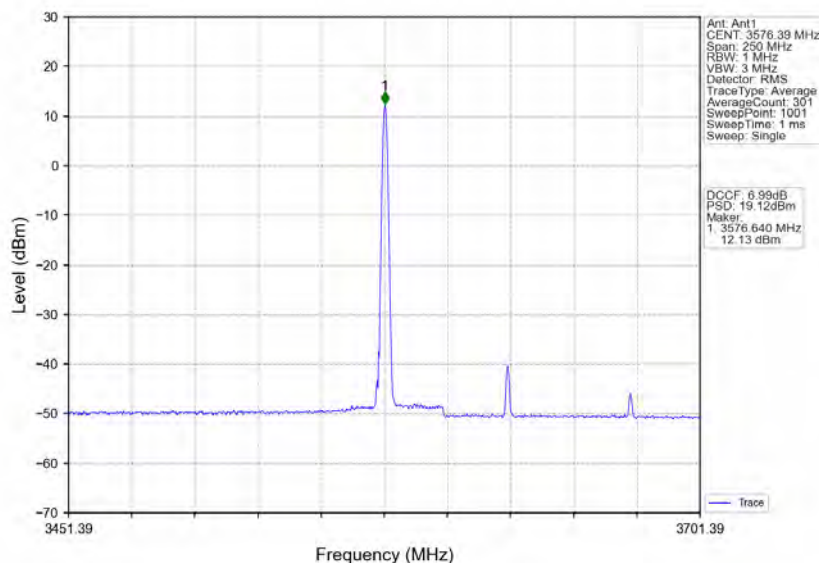
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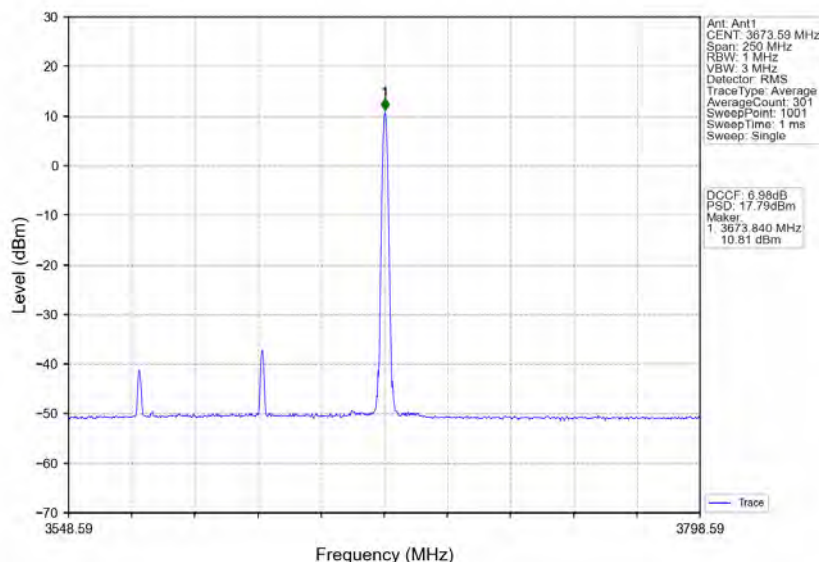
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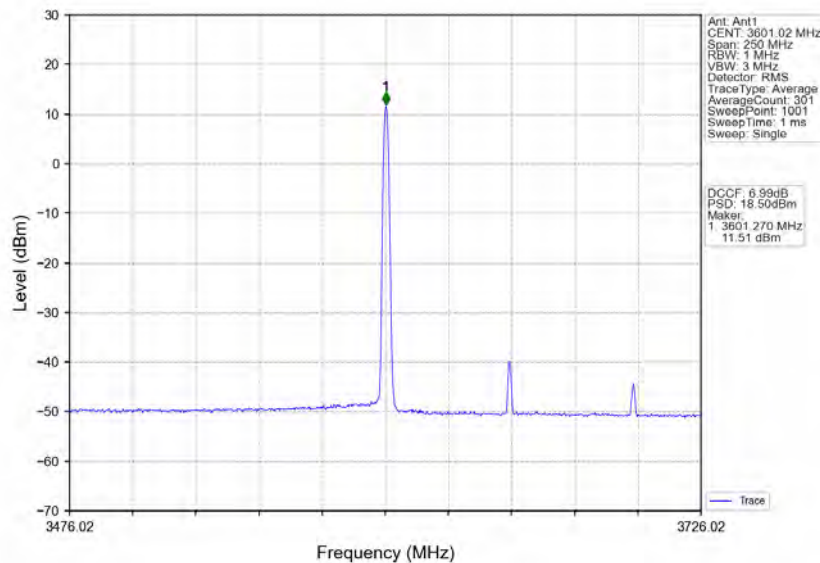
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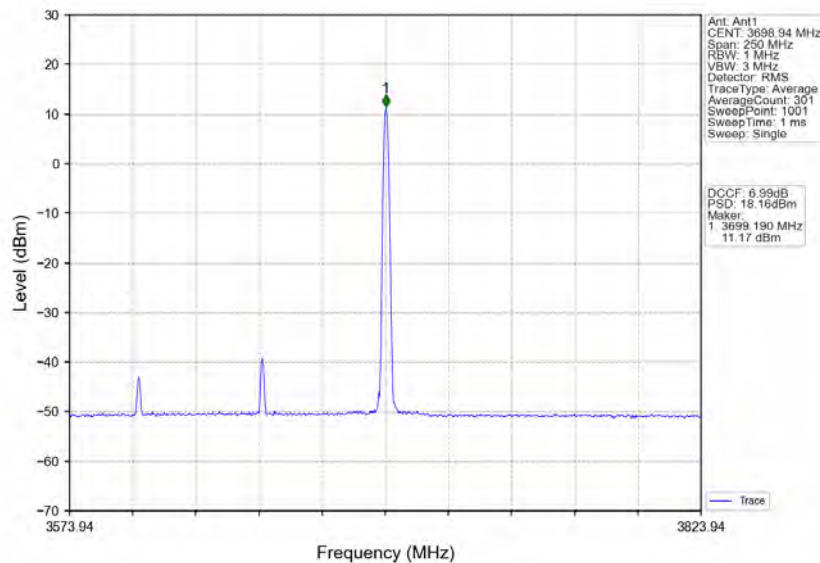
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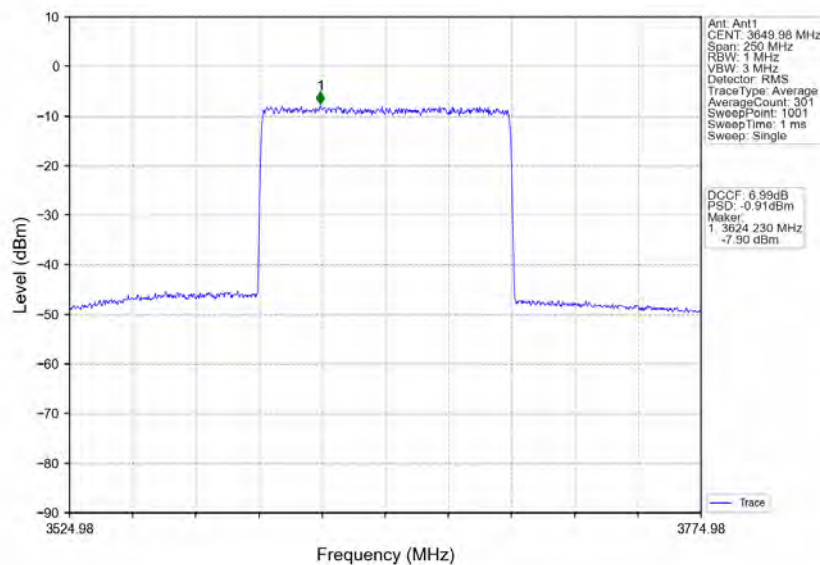
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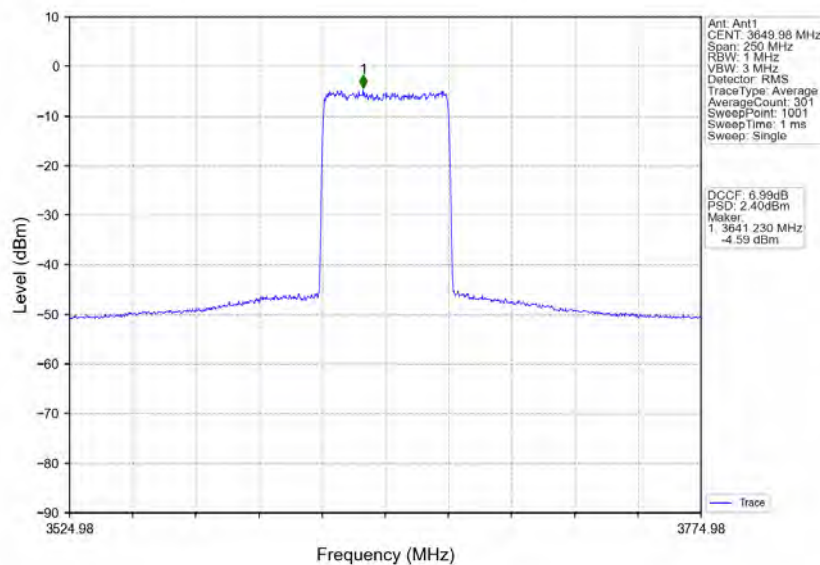
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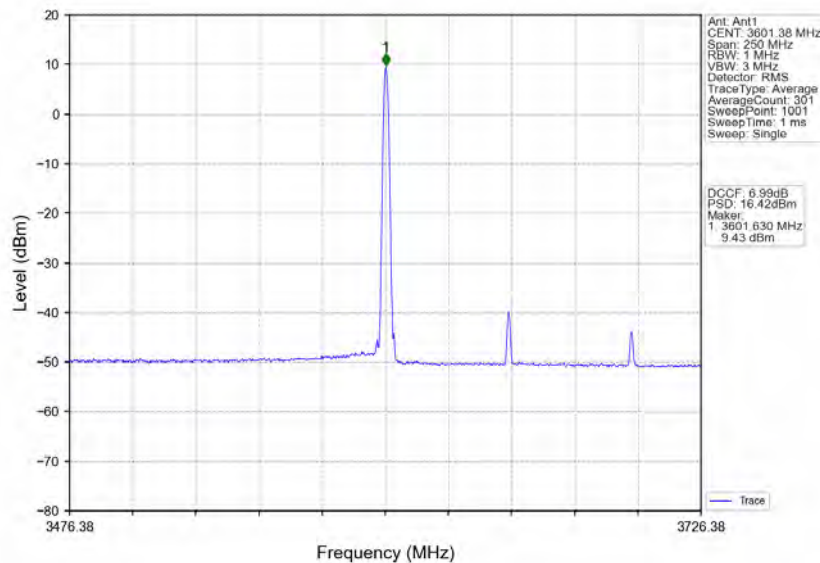
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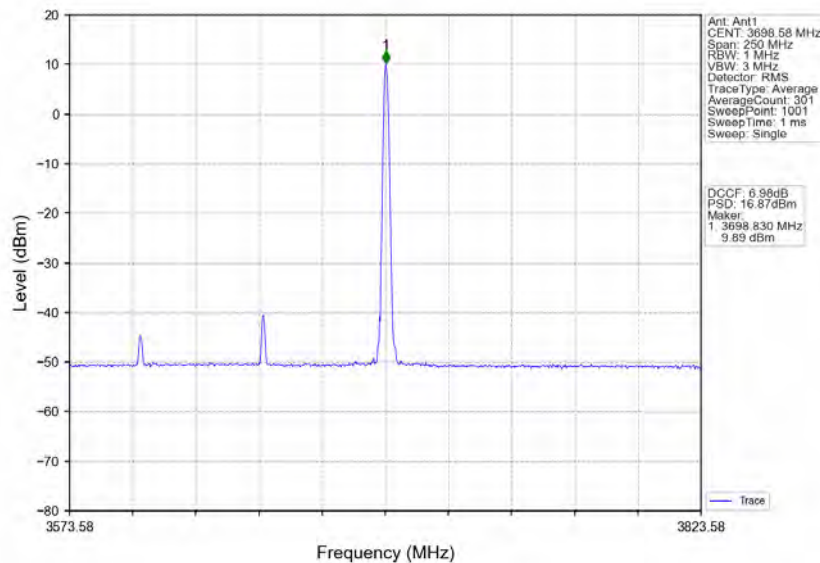
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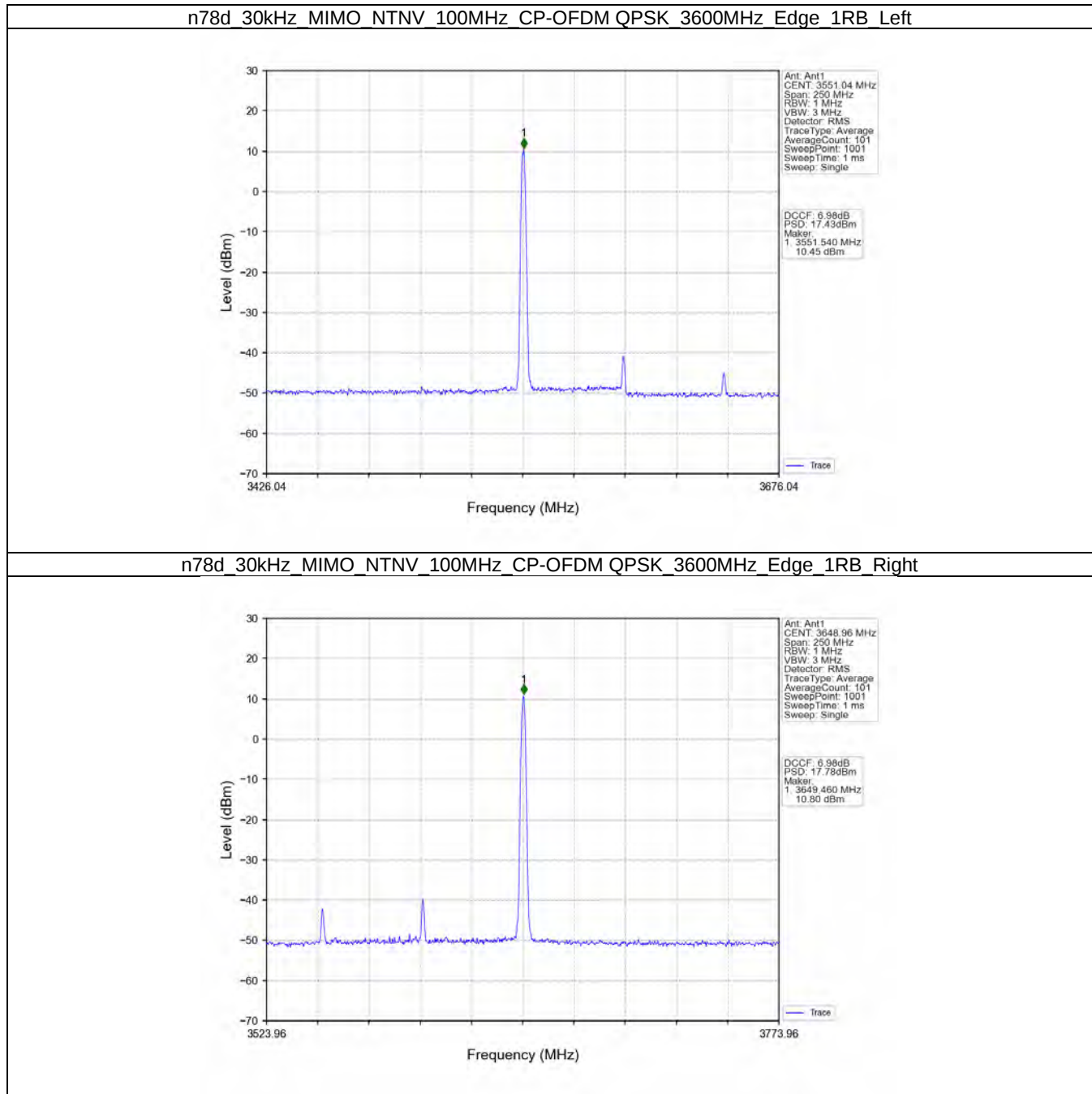
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2.33.3 Test Graph for ANT2



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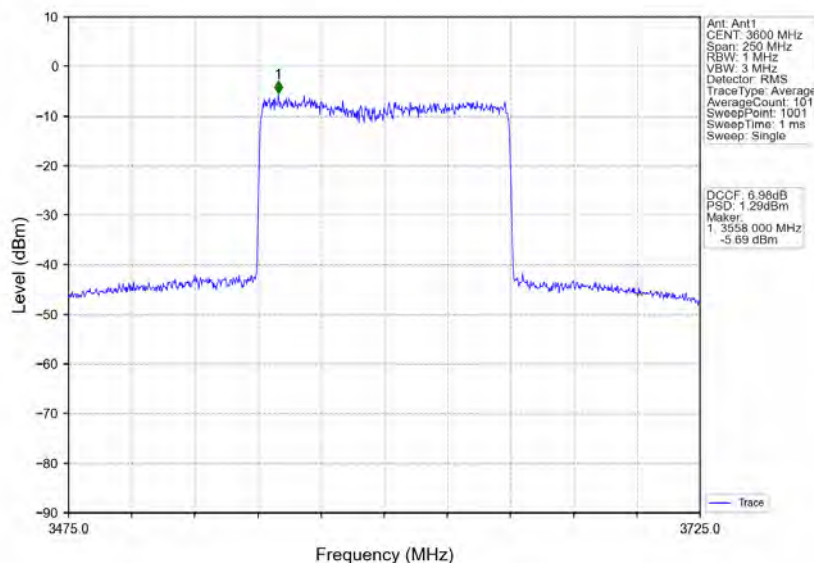
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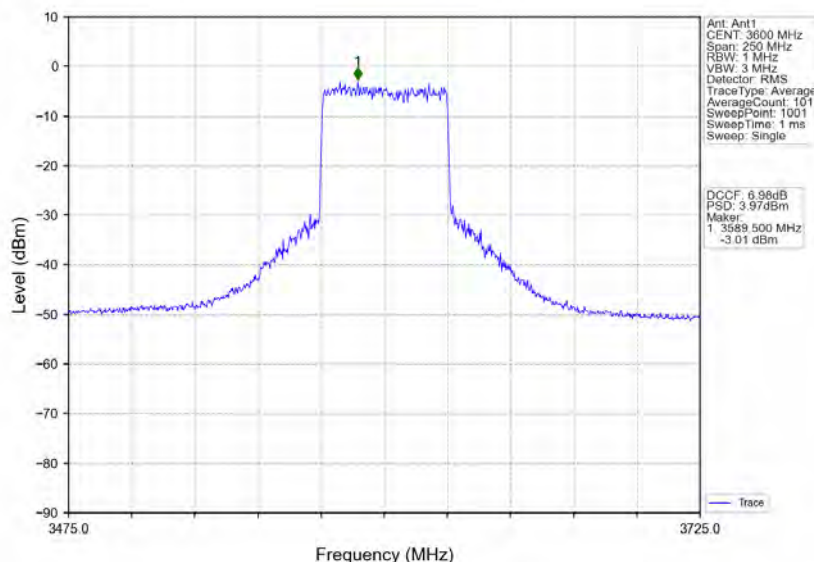
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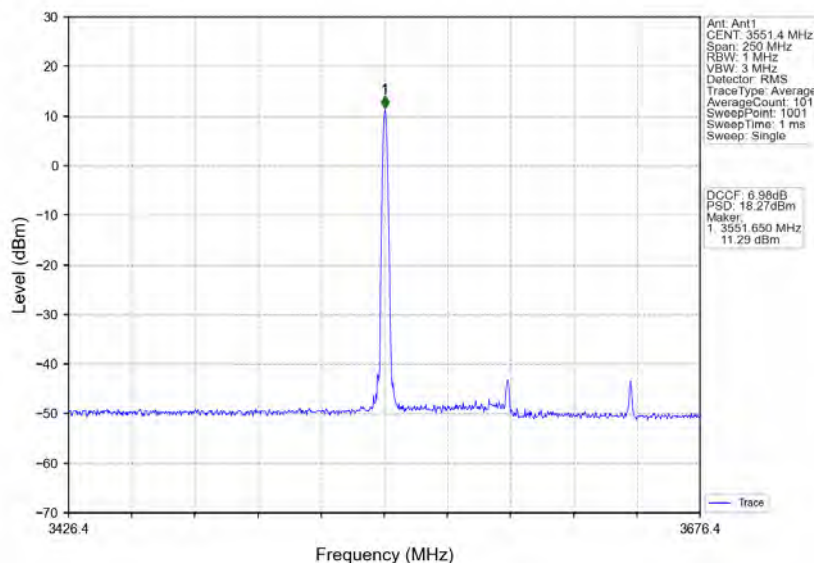
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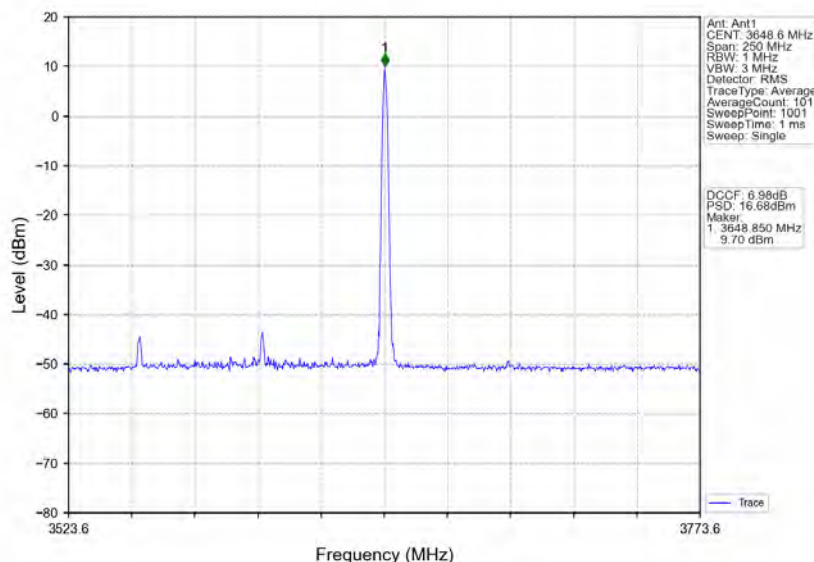
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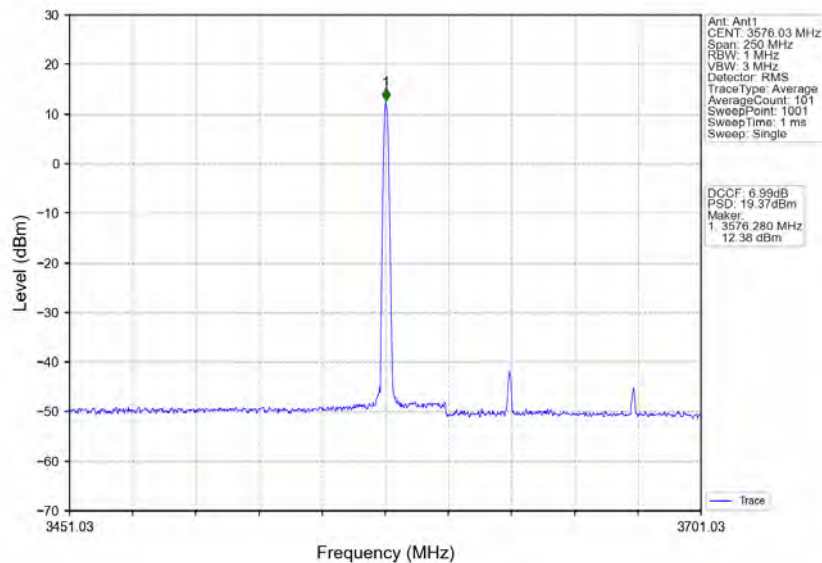
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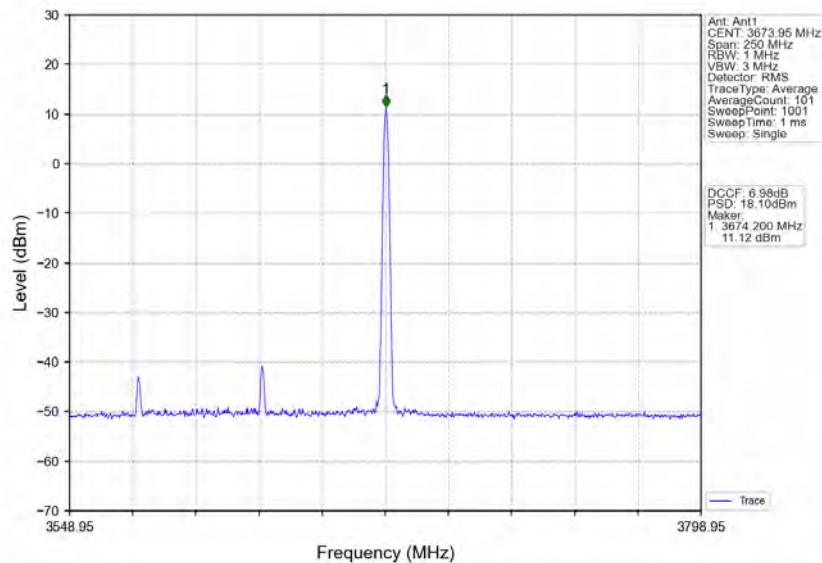
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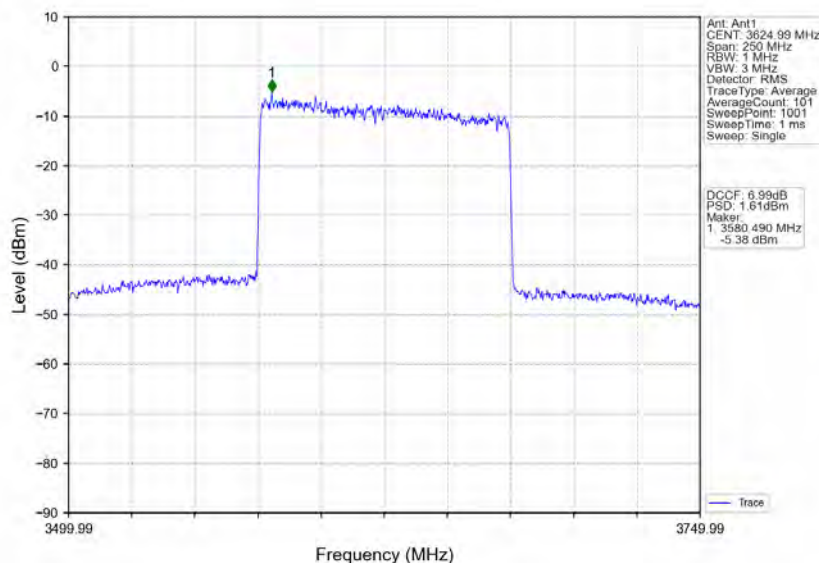
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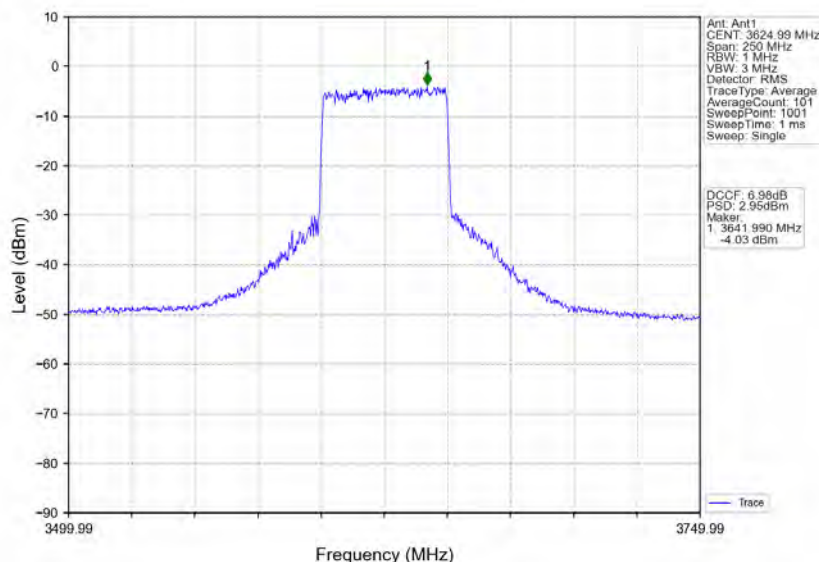
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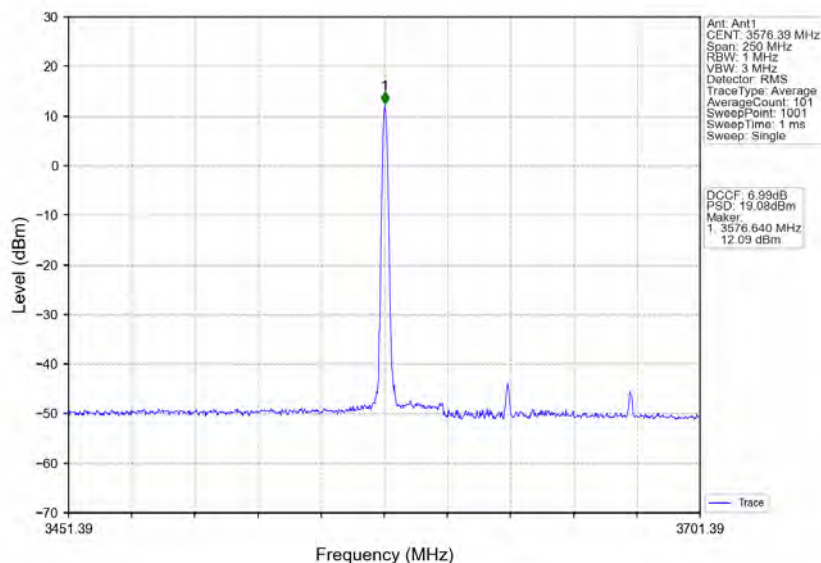
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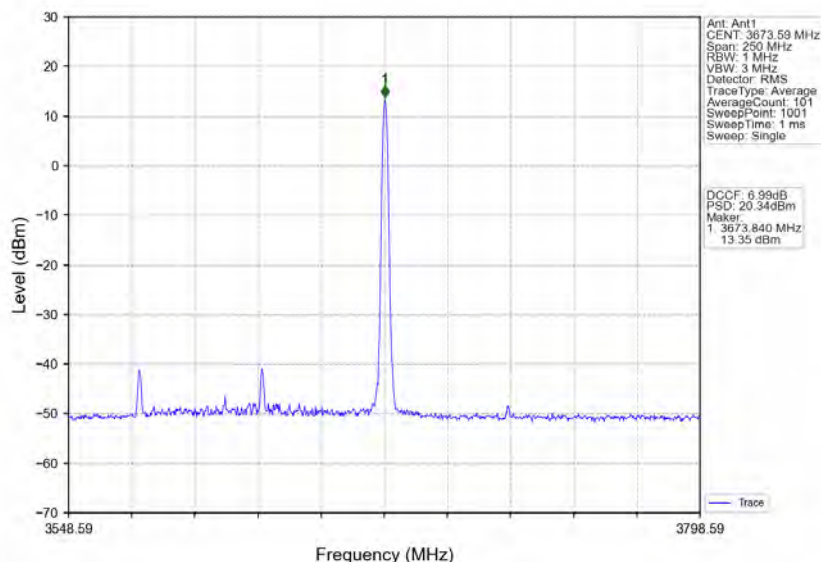
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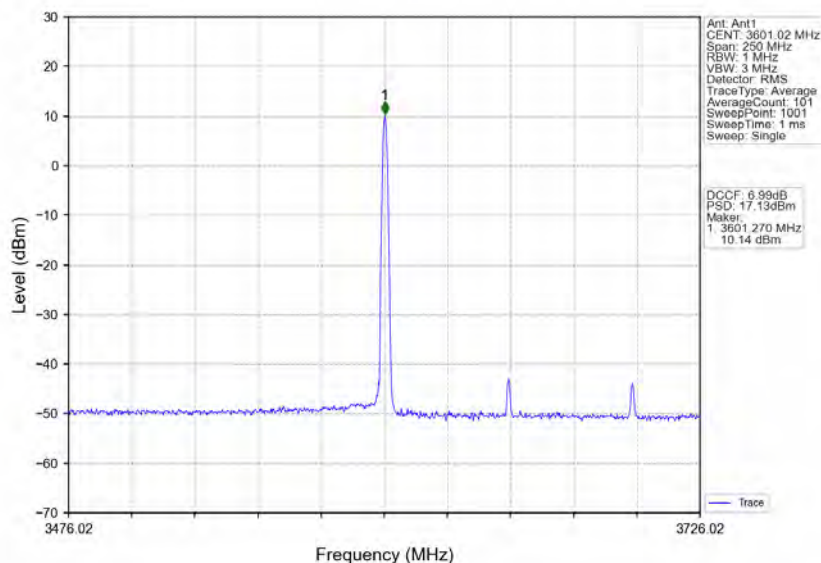
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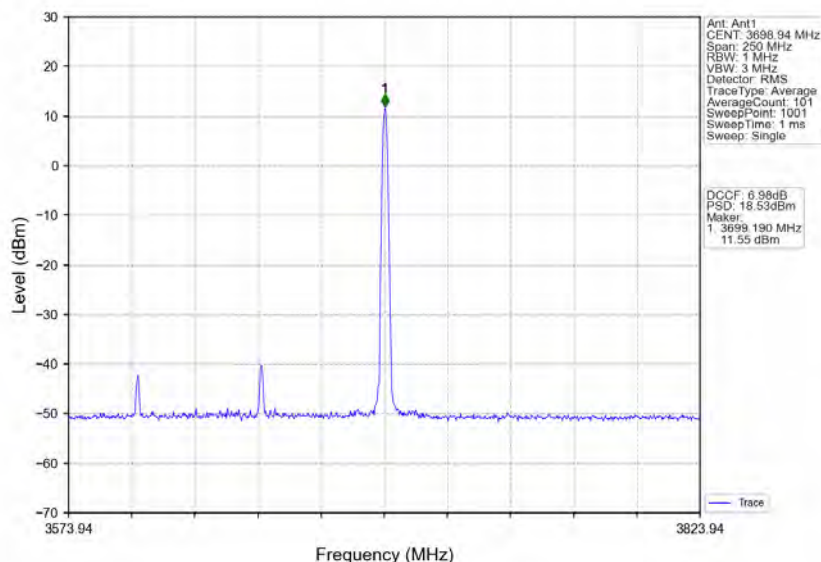
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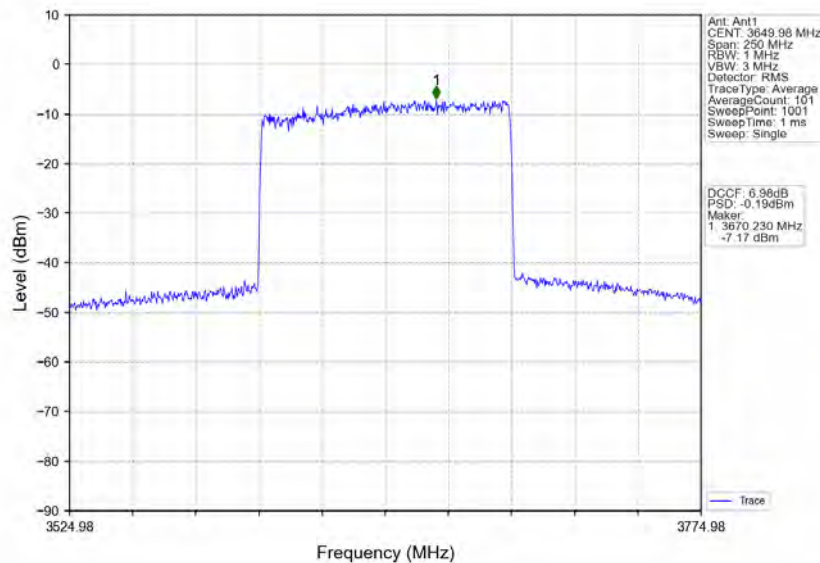
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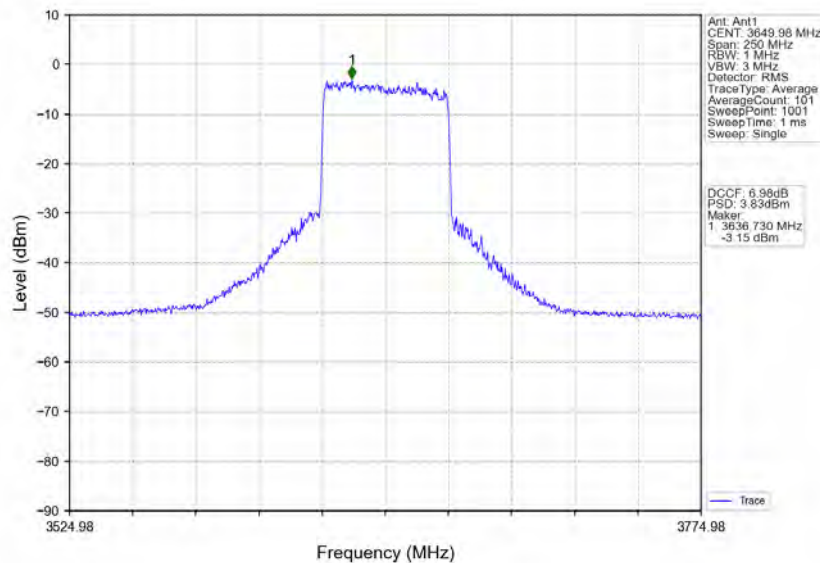
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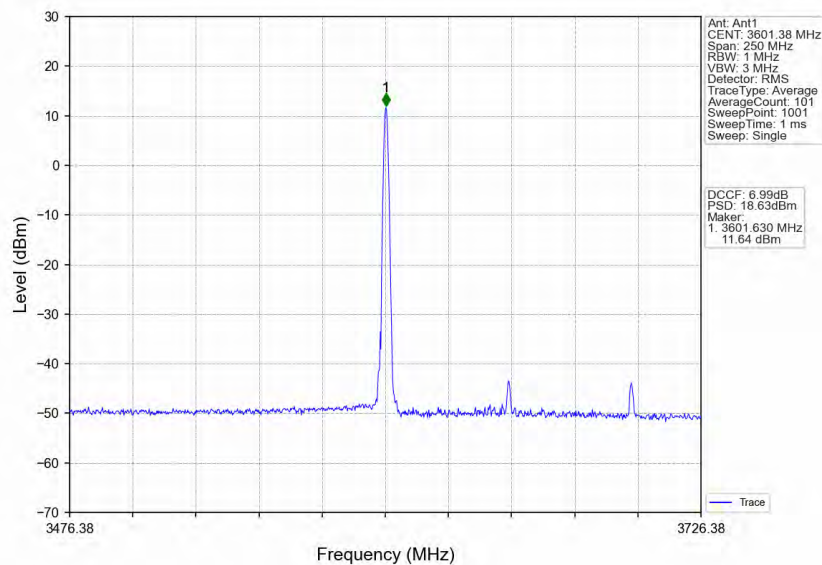
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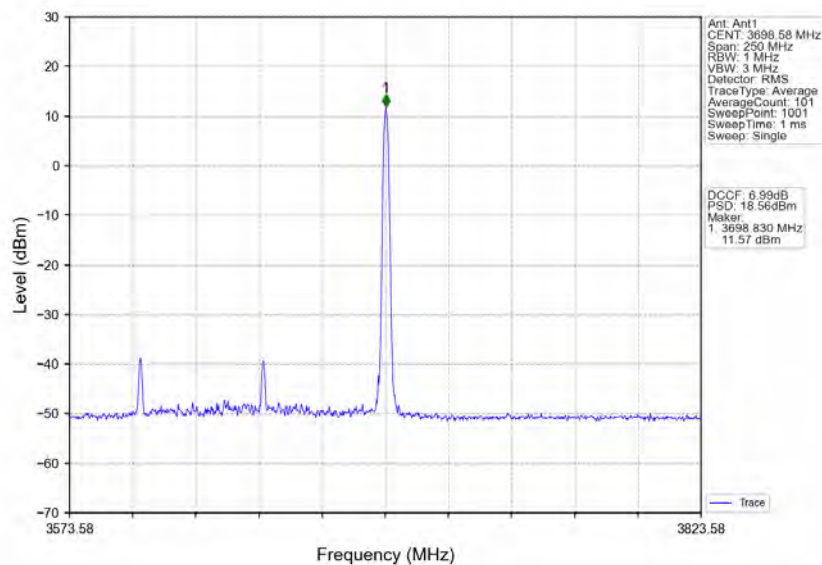
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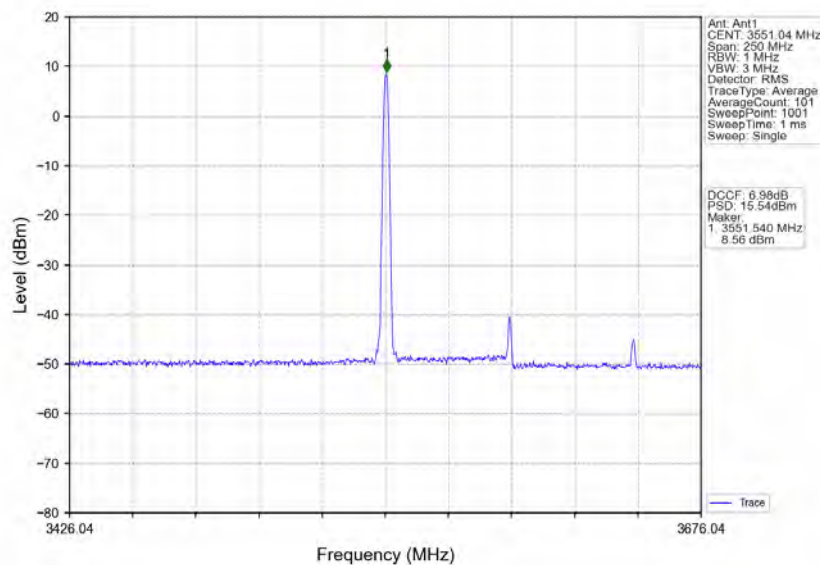
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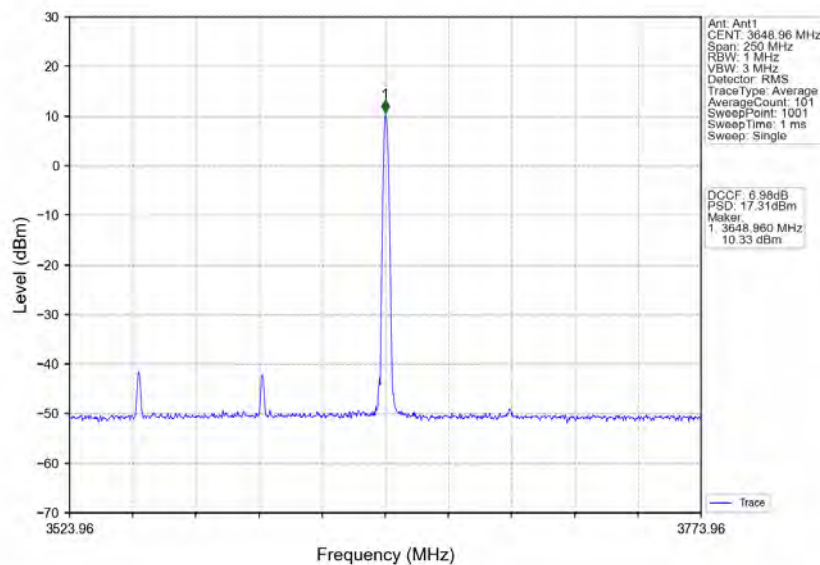
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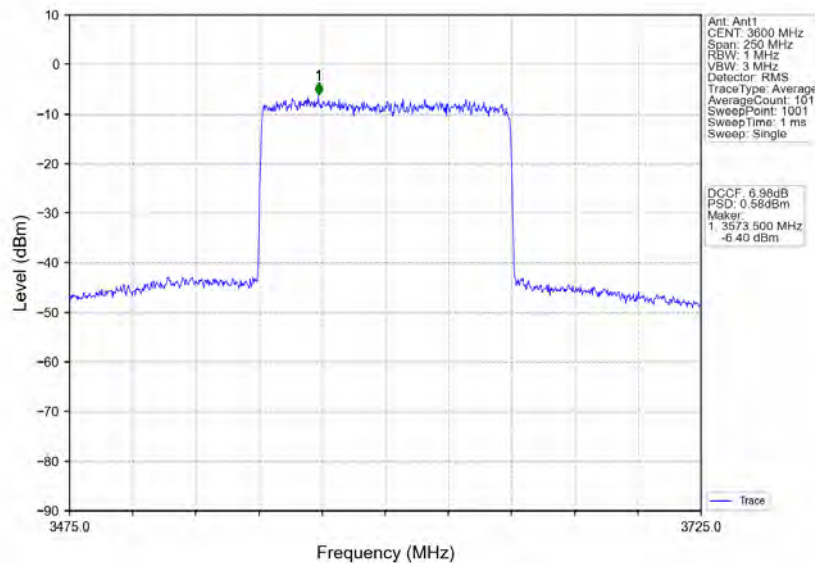
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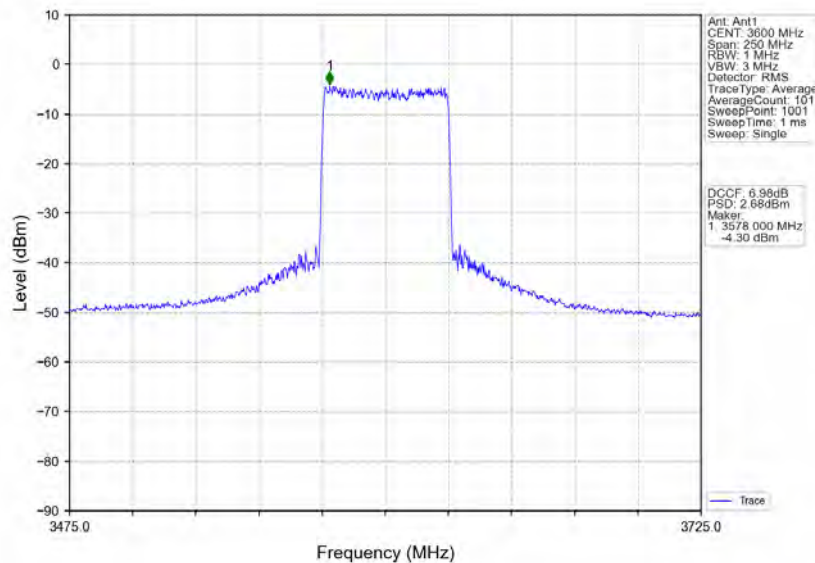
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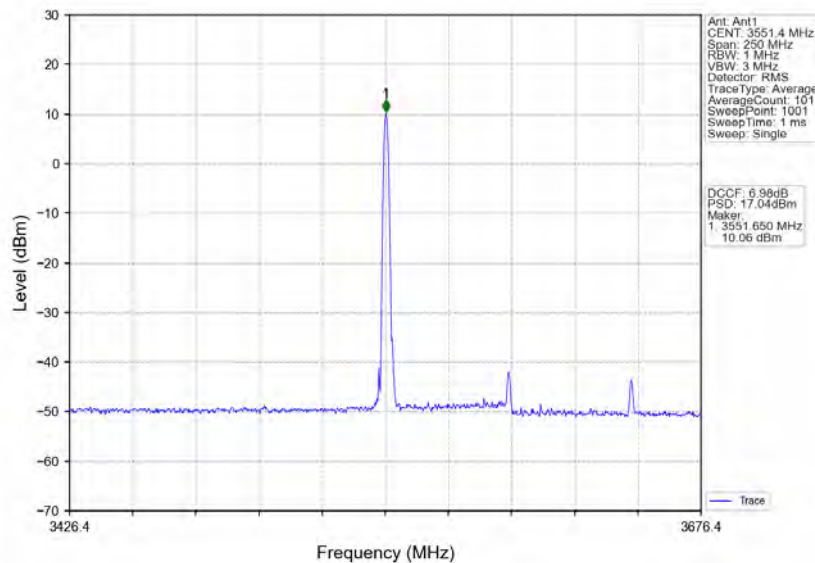
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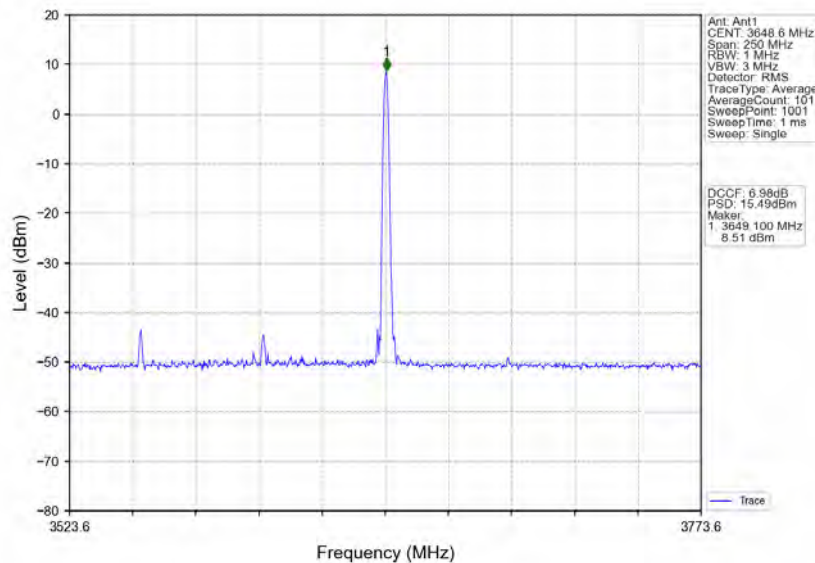
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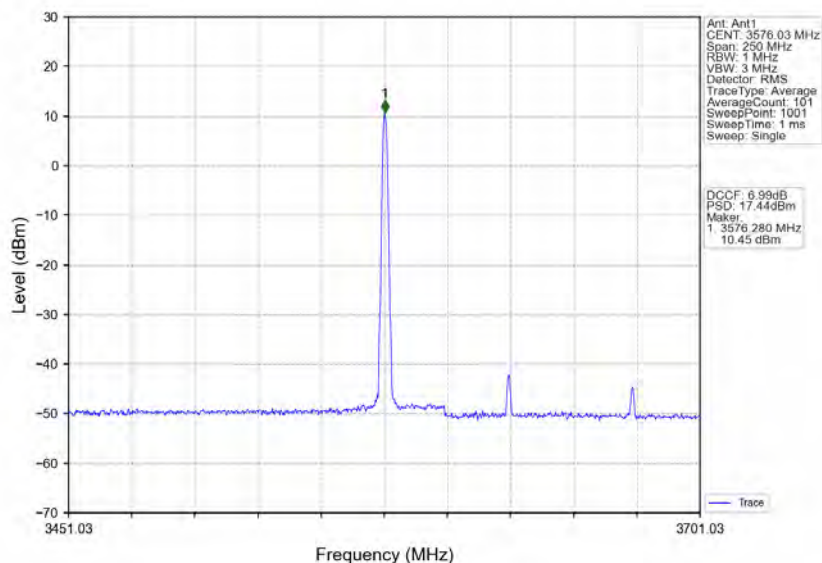
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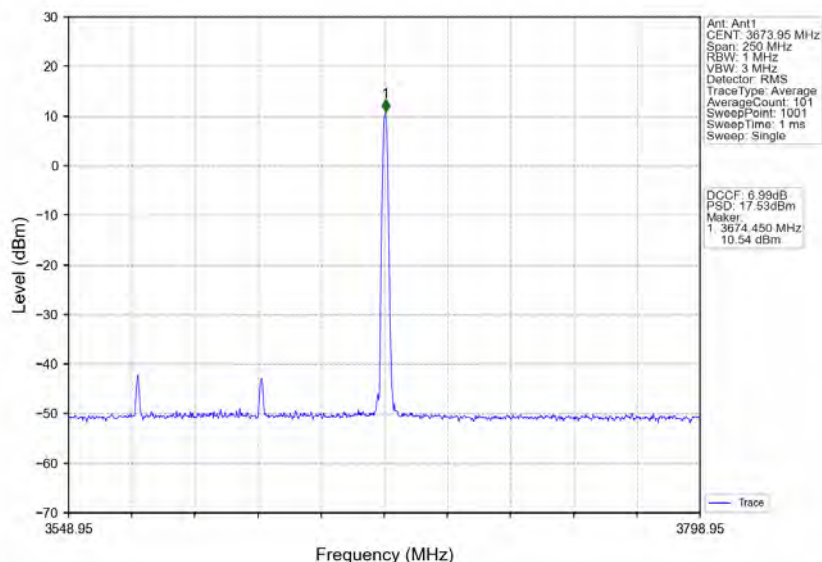
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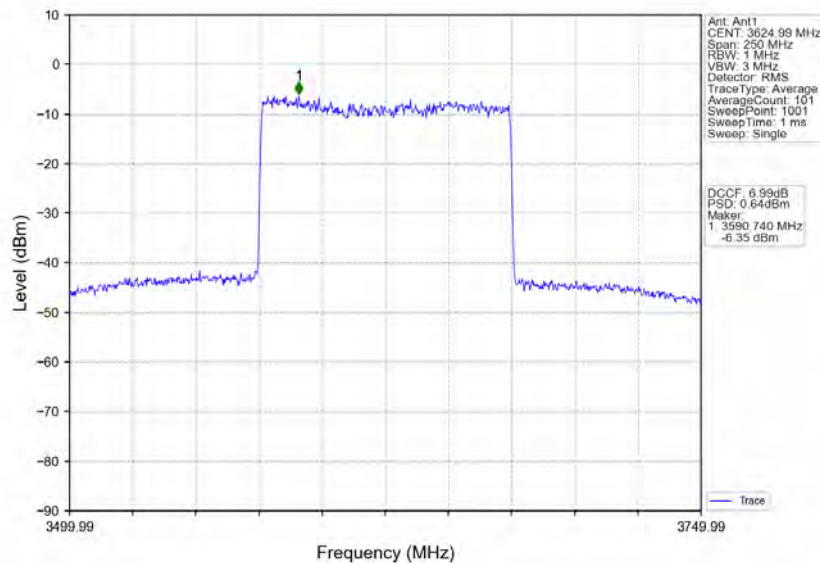
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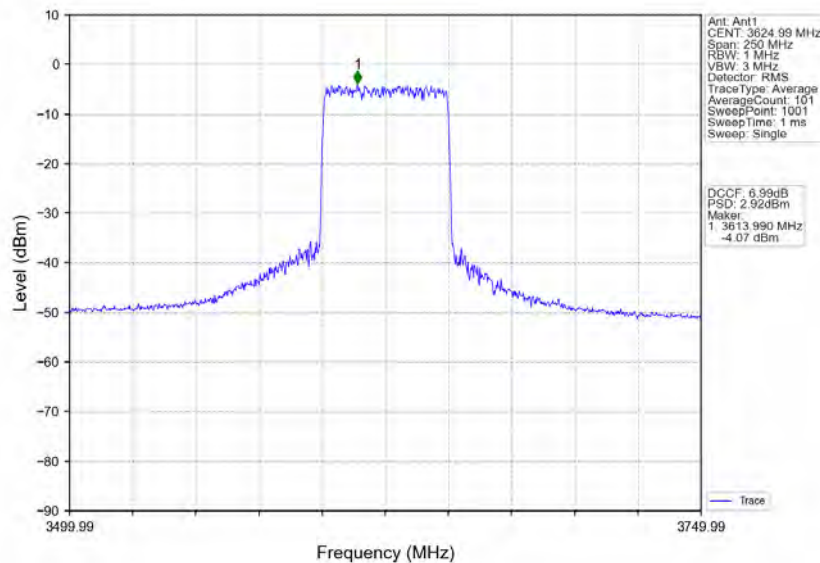
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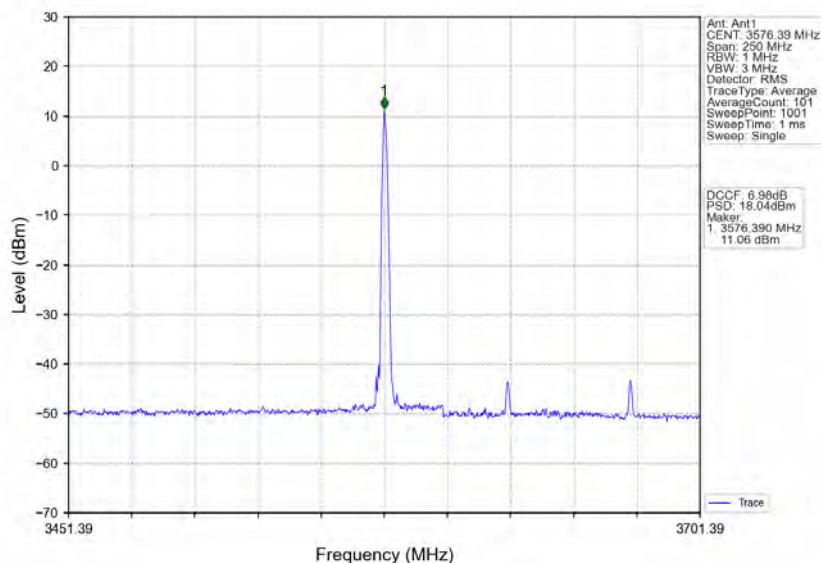
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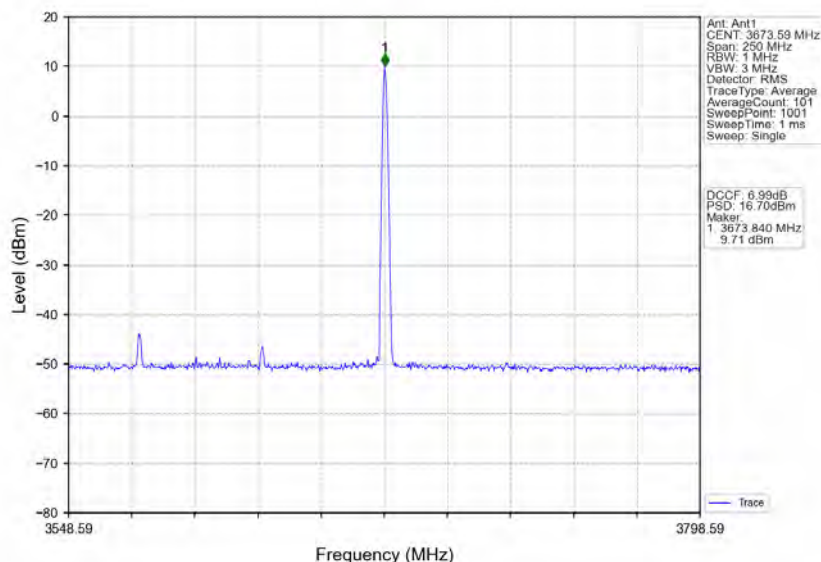
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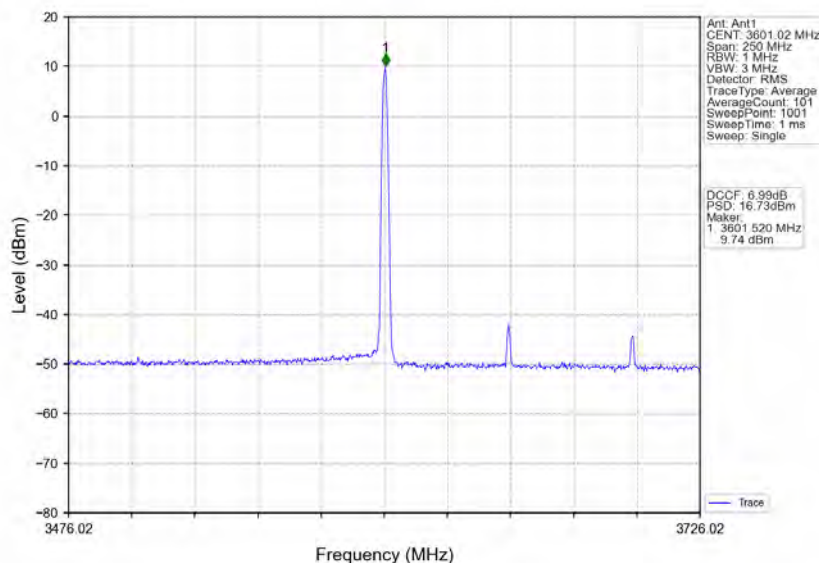
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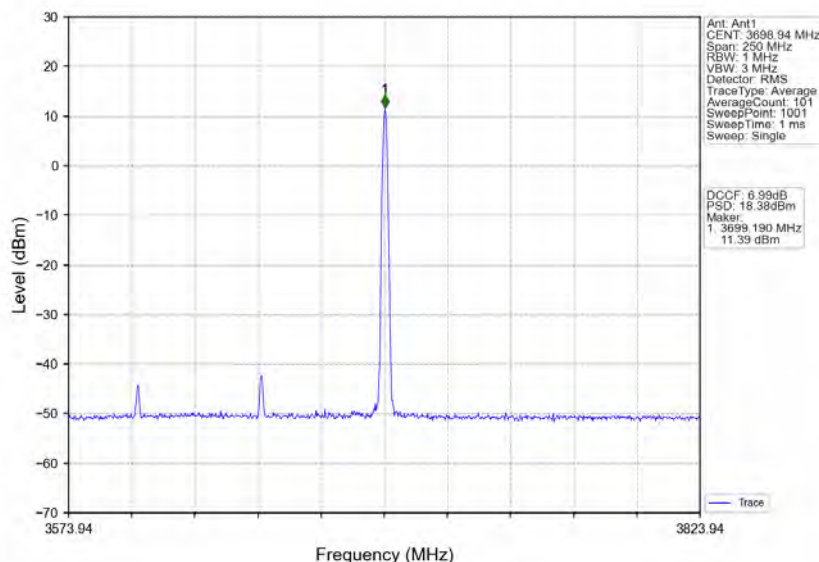
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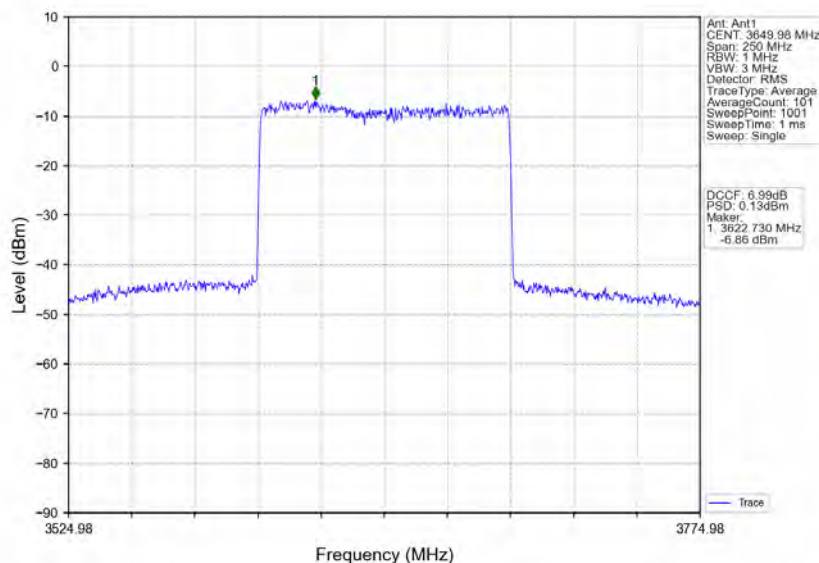
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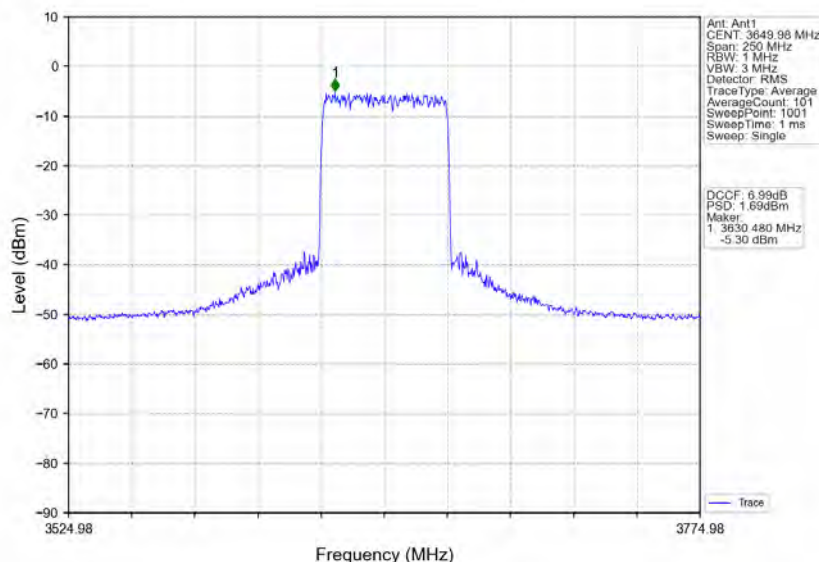
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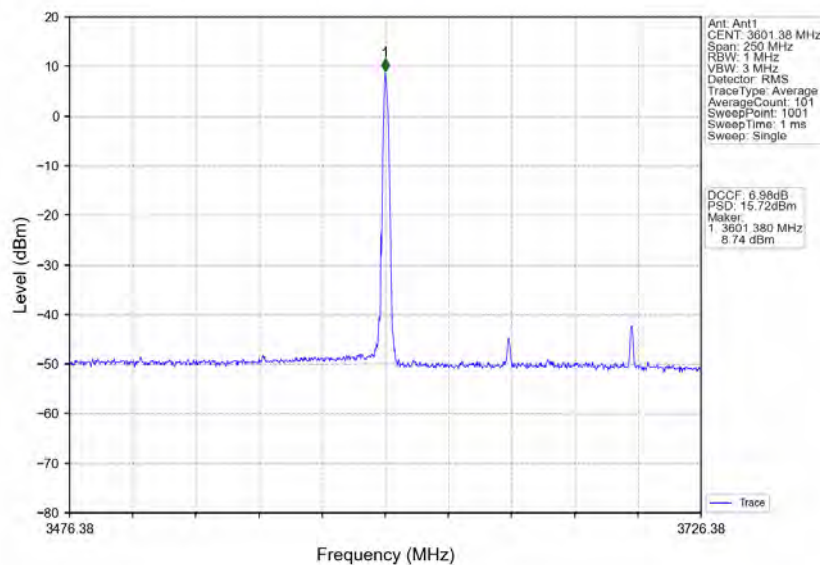
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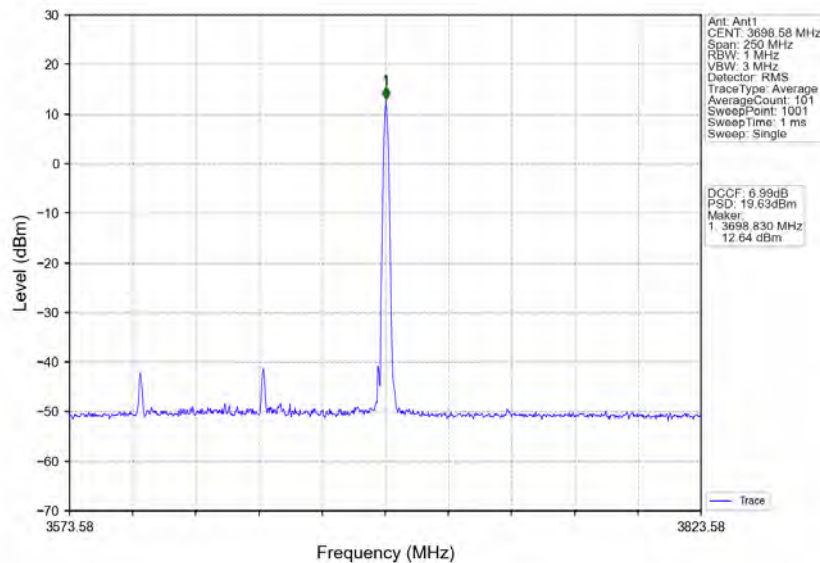
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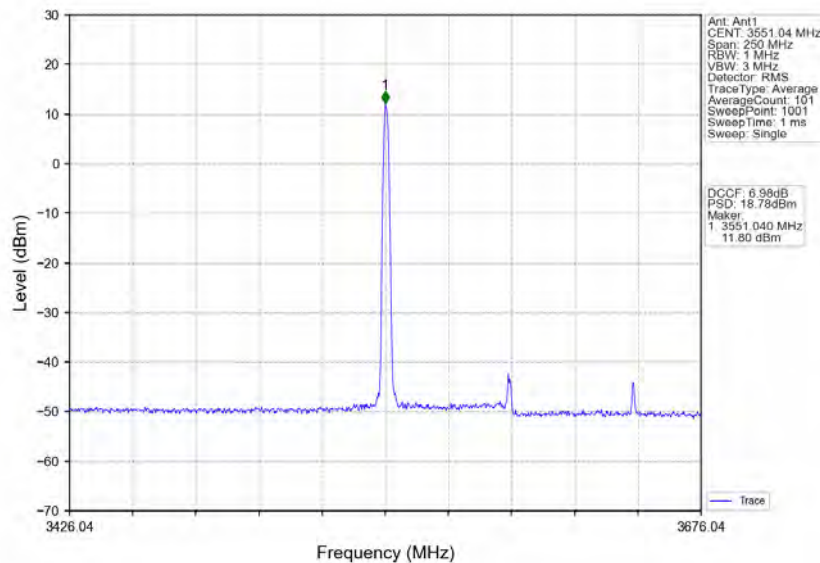
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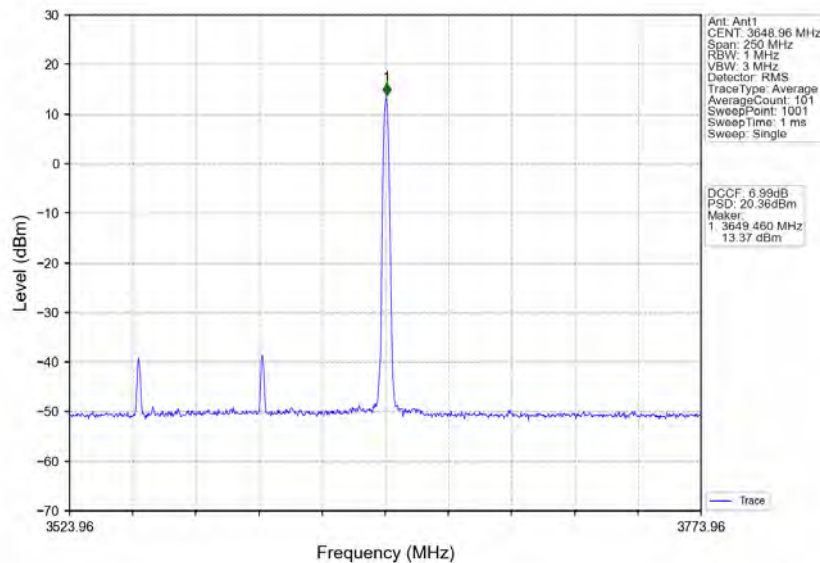
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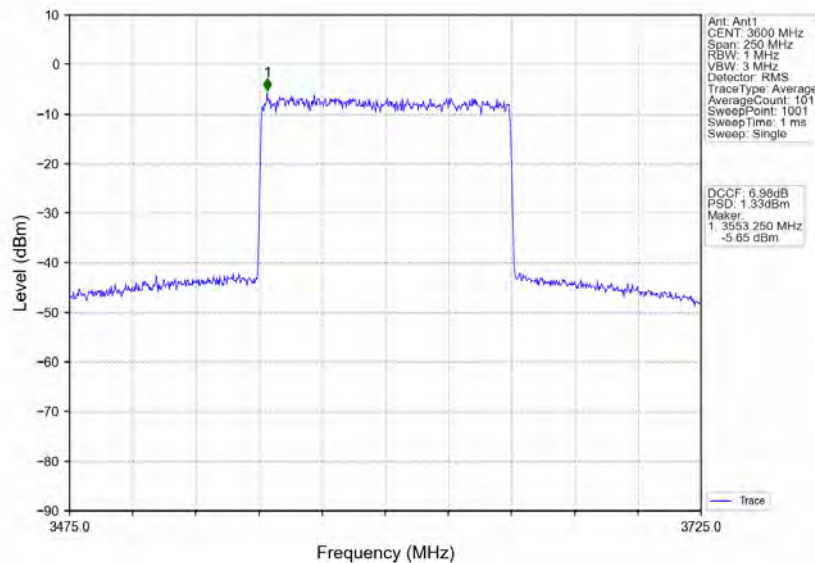
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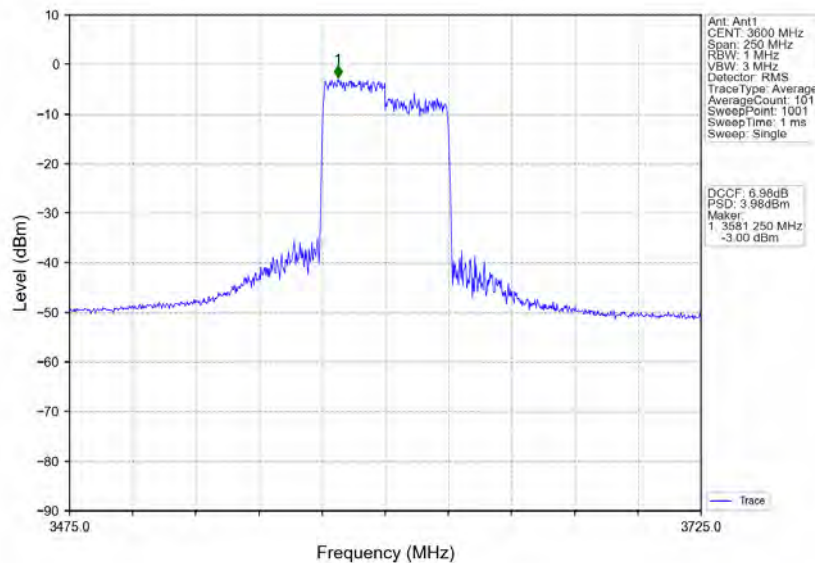
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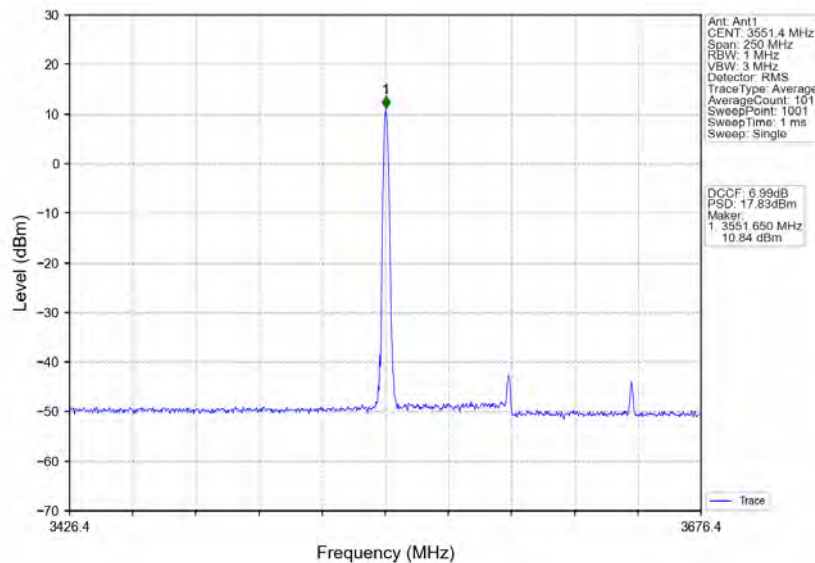
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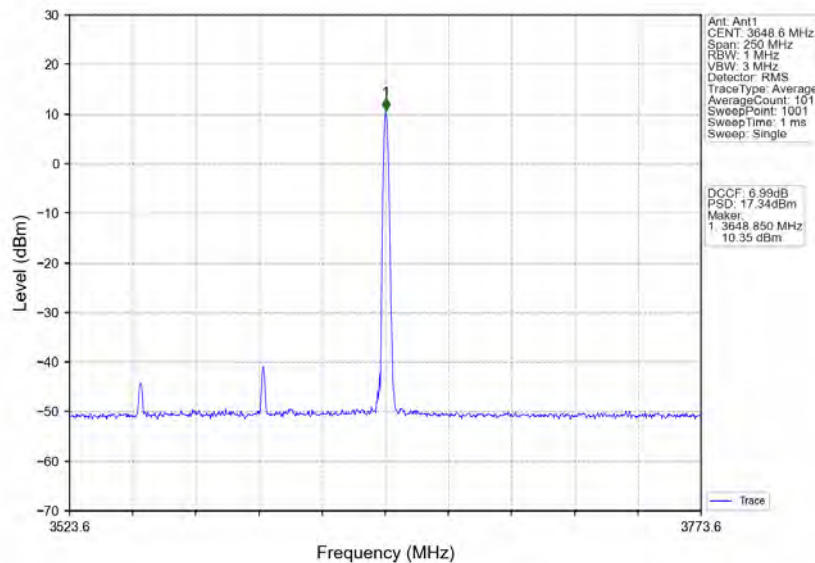
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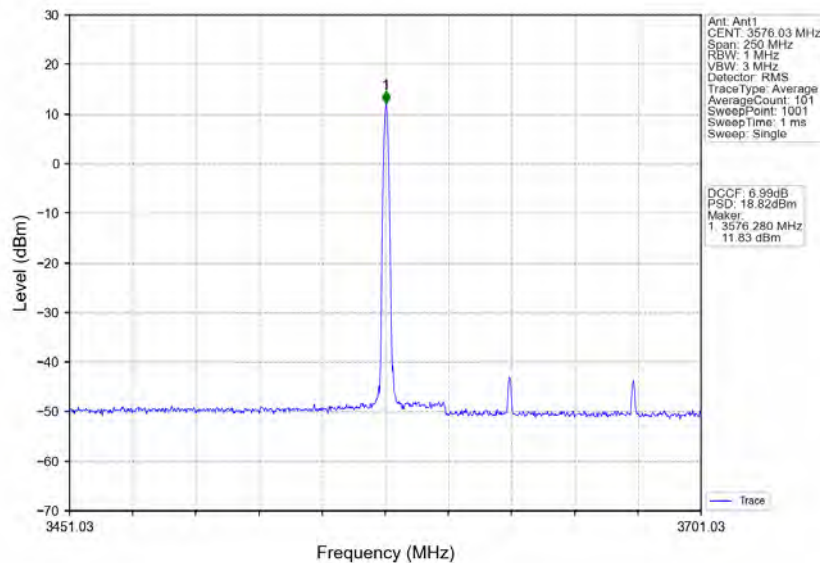
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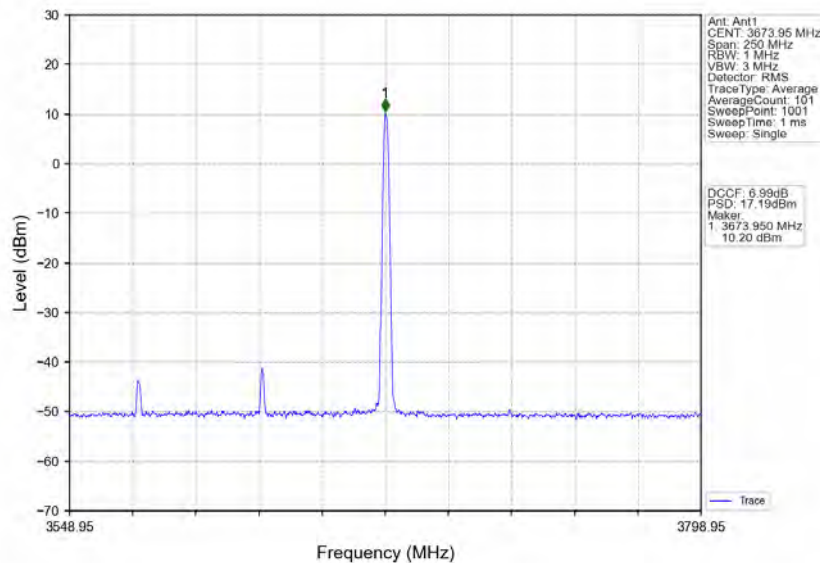
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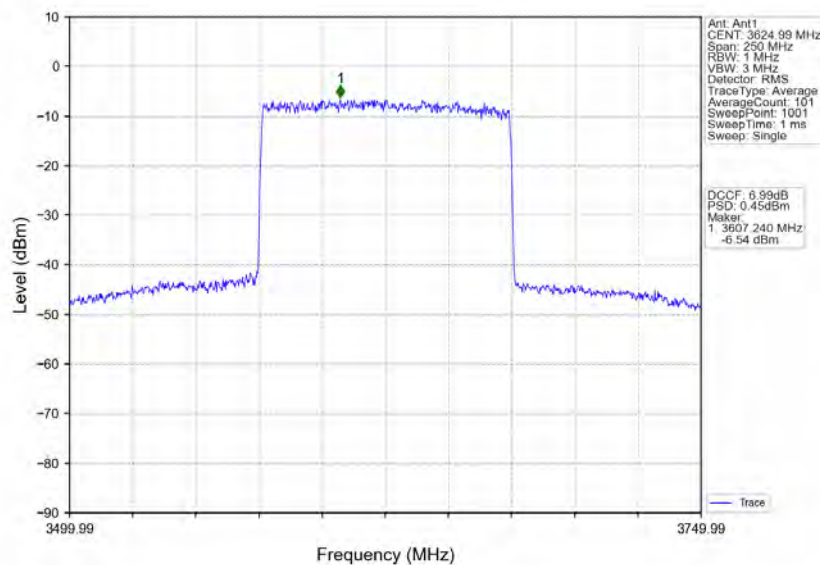
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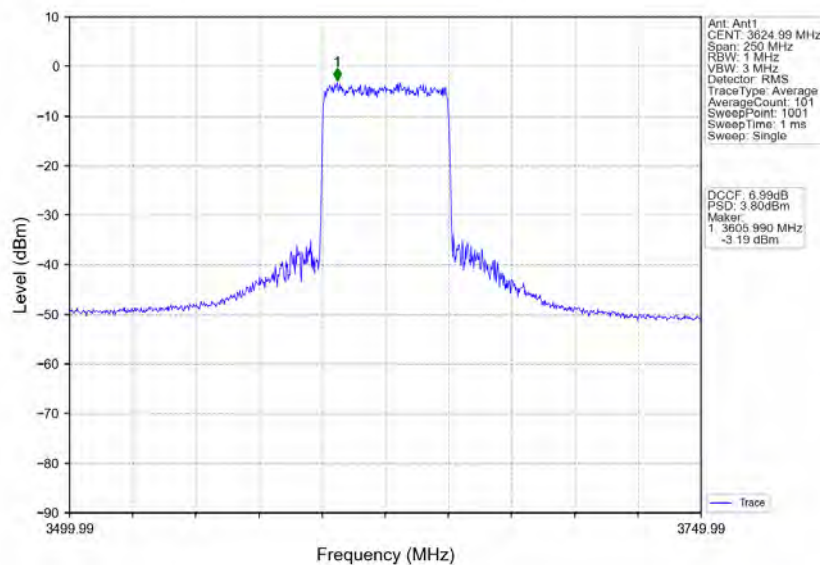
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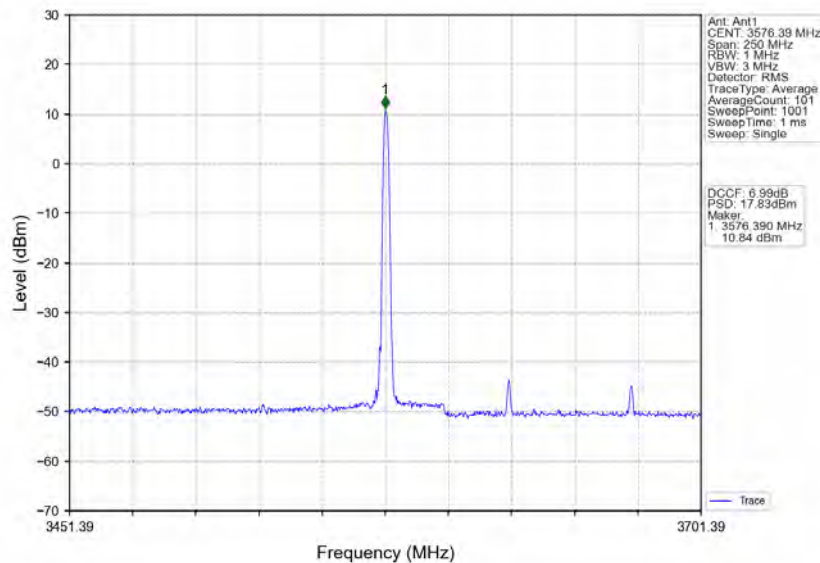
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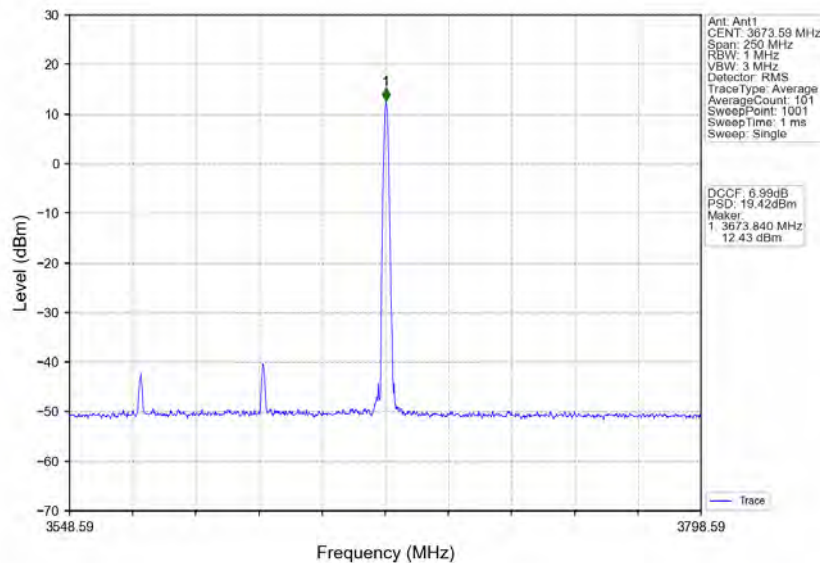
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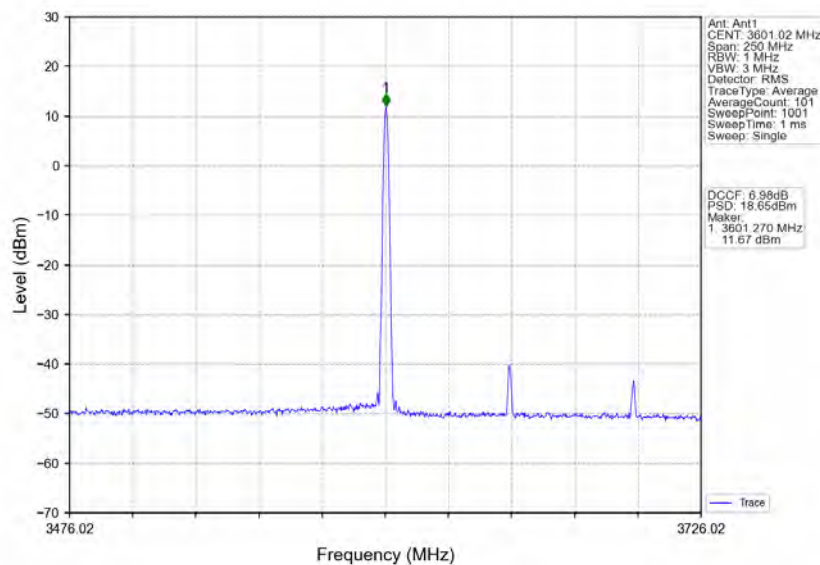
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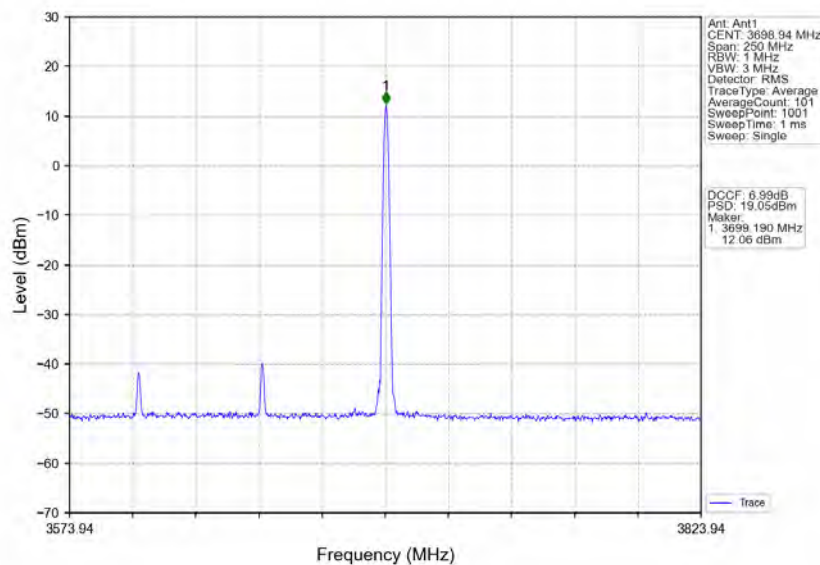
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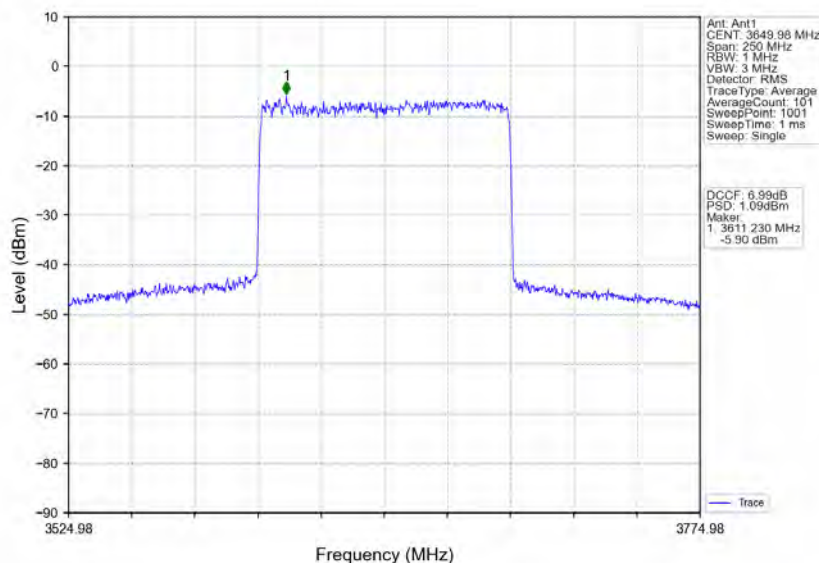
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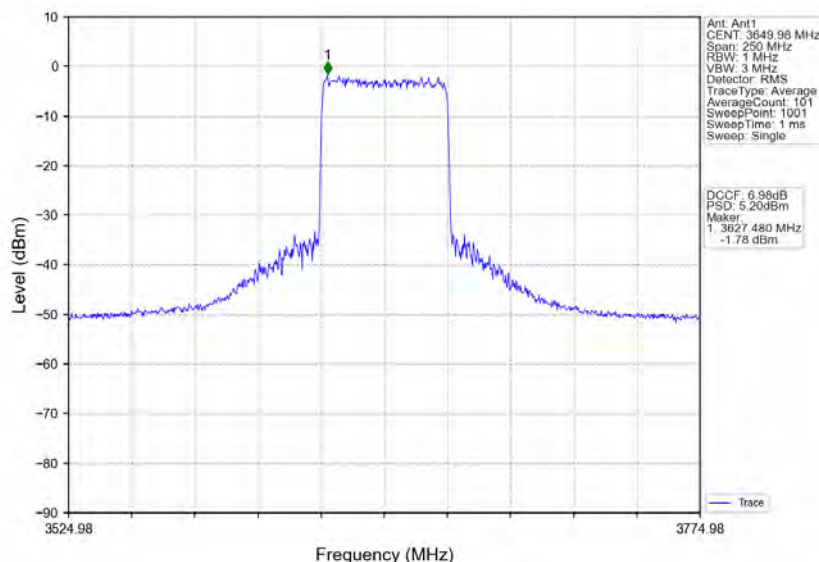
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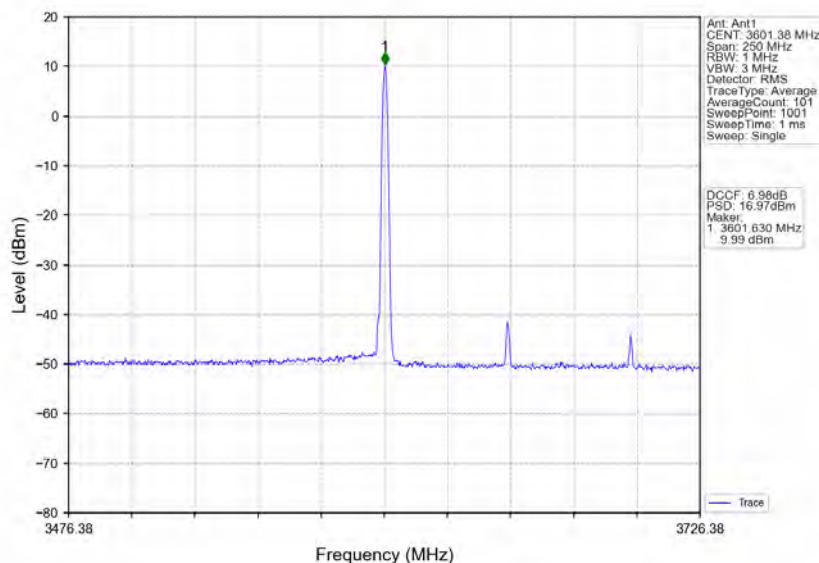
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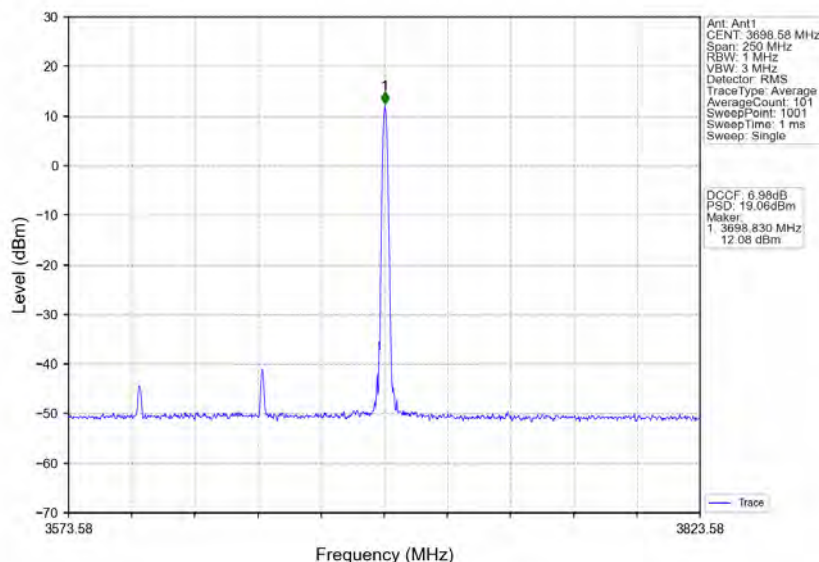
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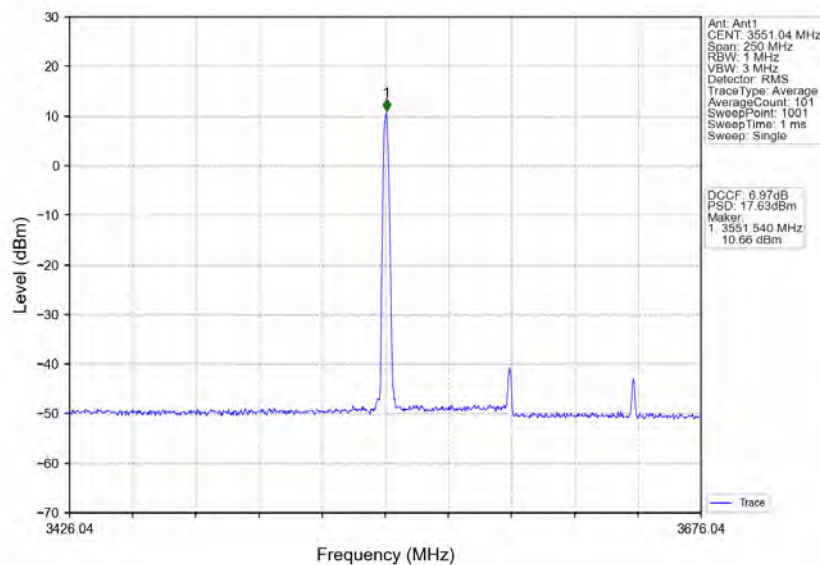
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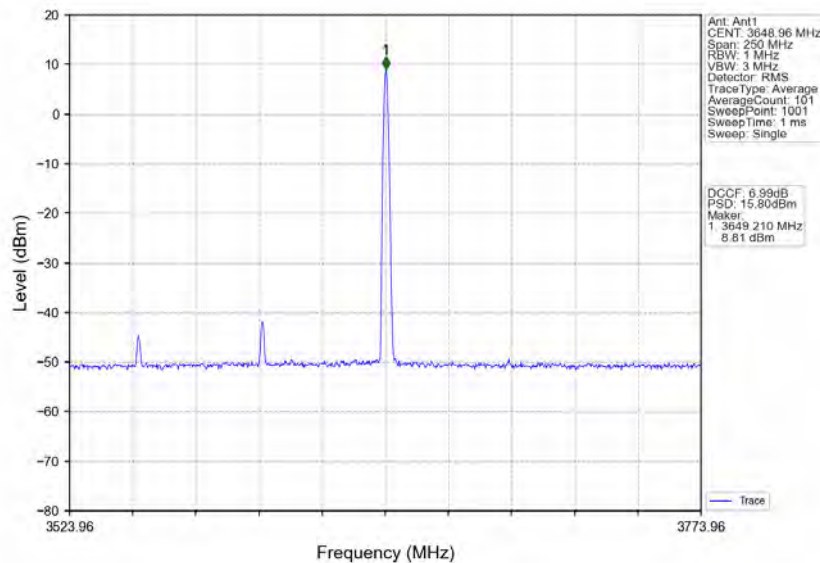
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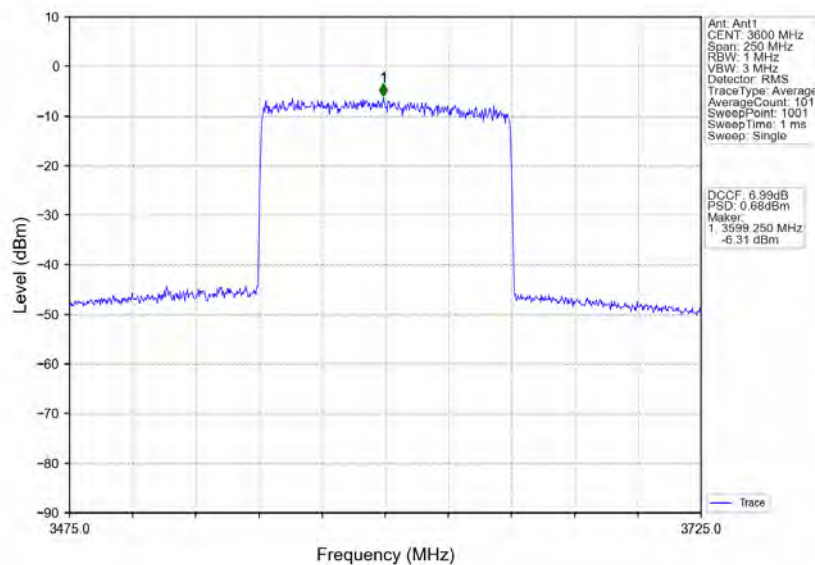
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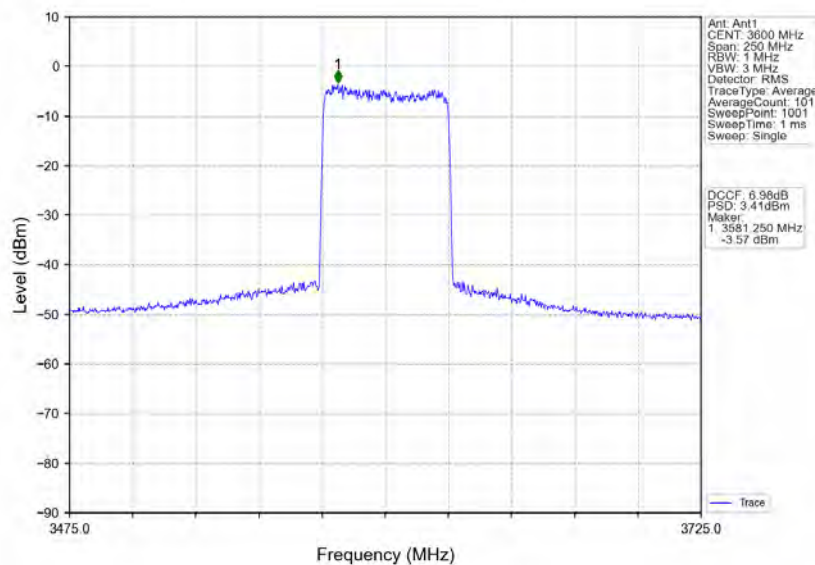
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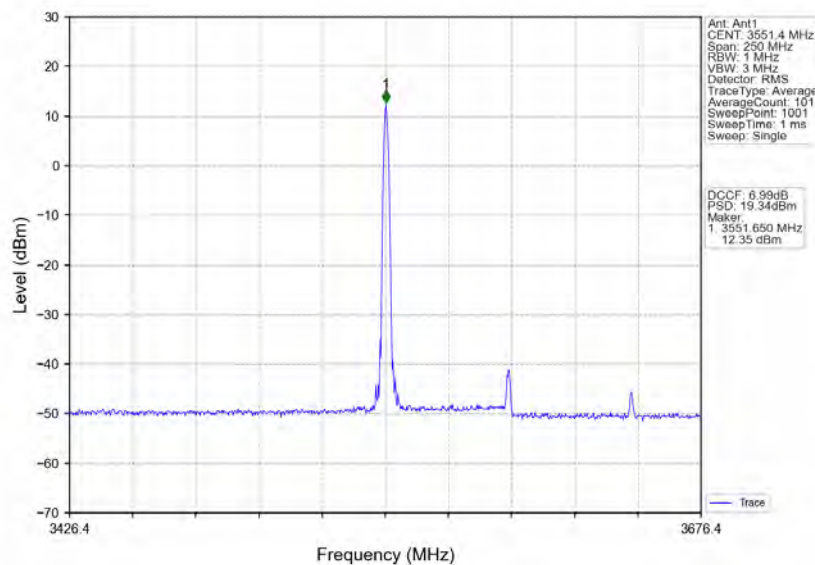
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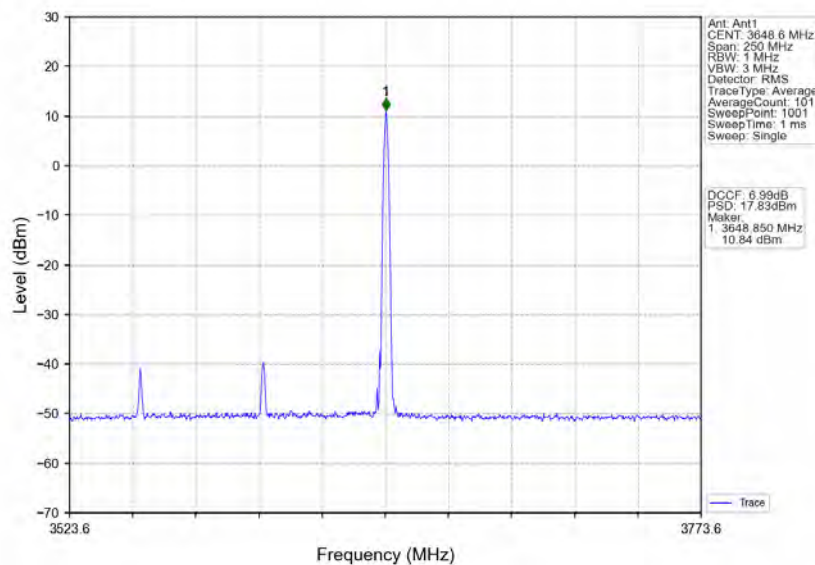
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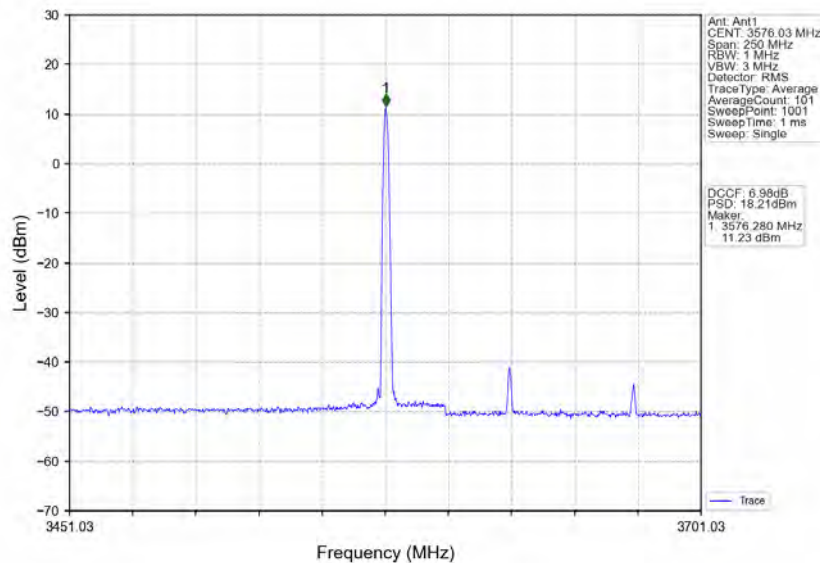
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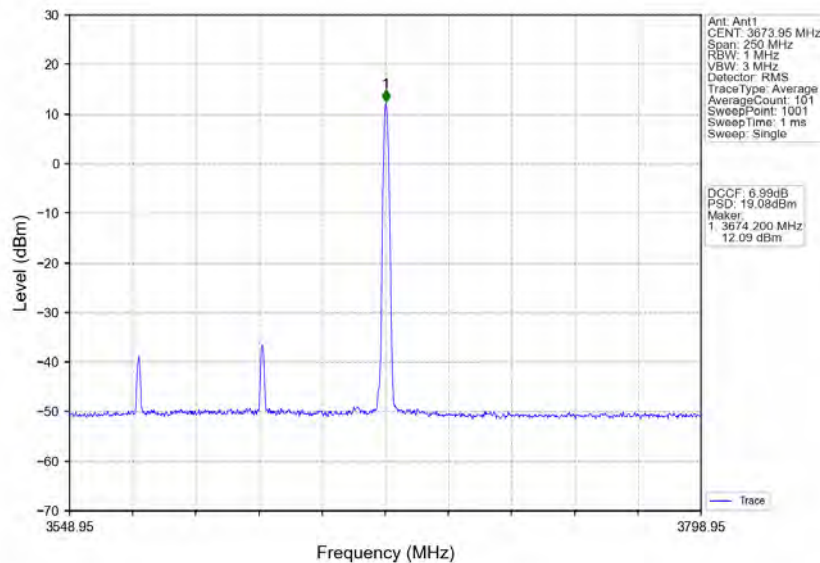
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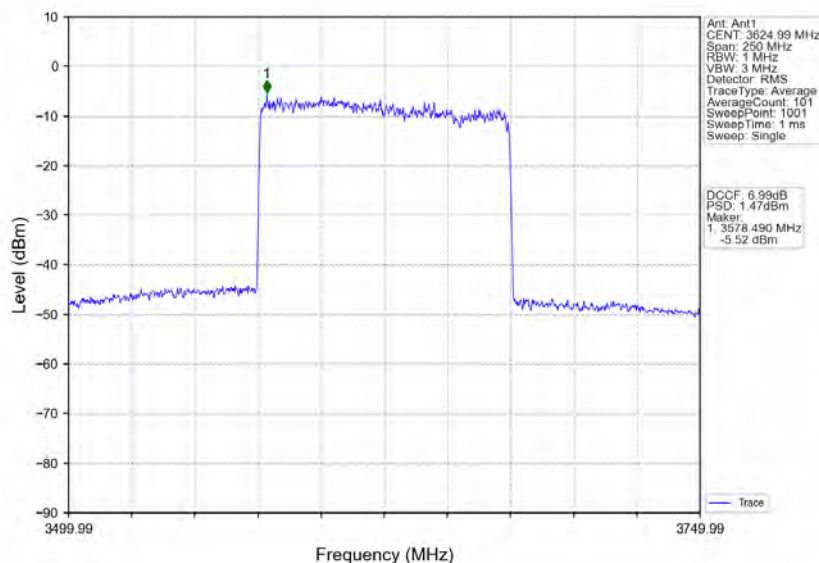
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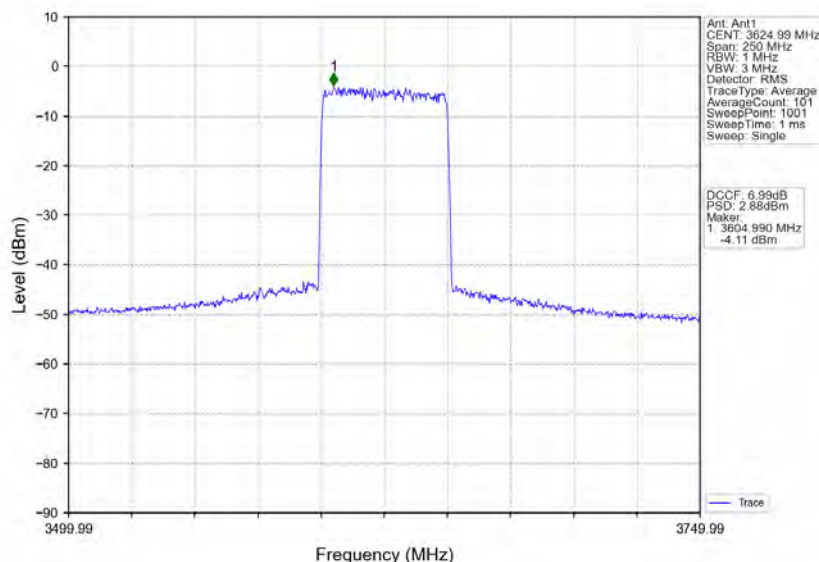
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3624.99MHz_Inner_Full



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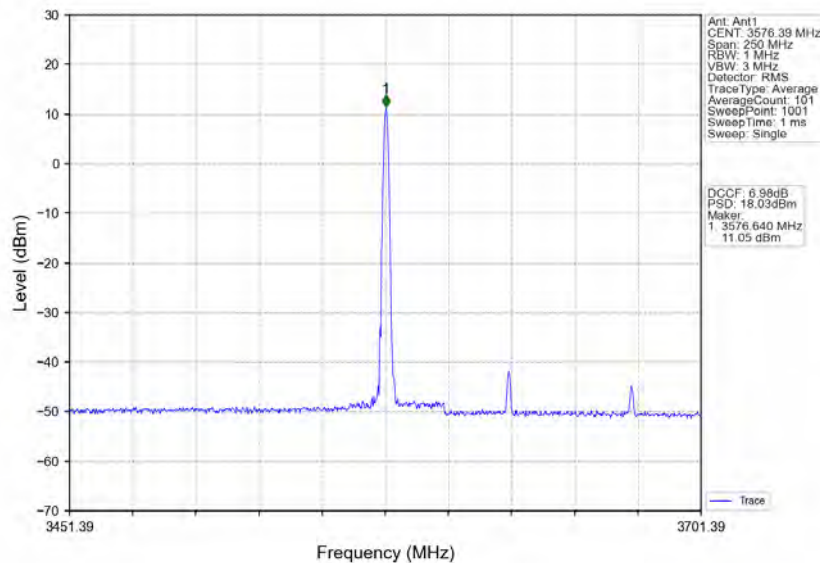
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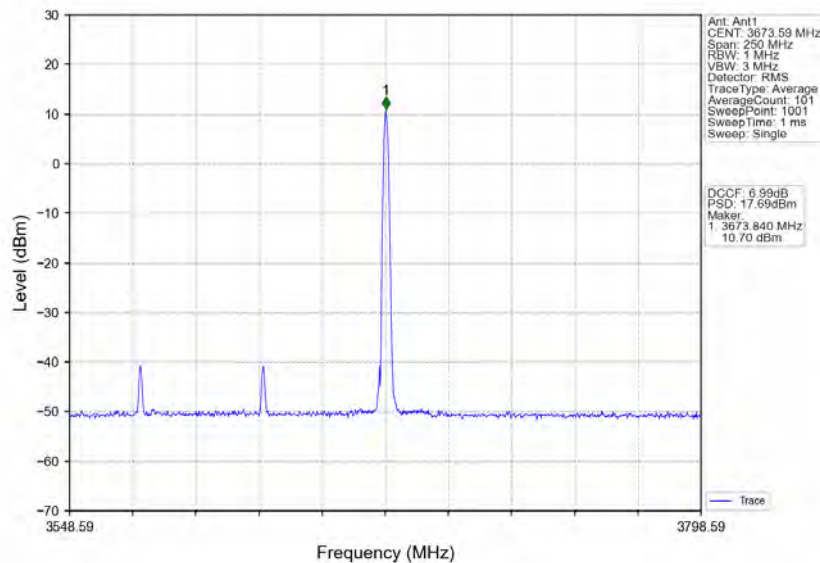
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Right



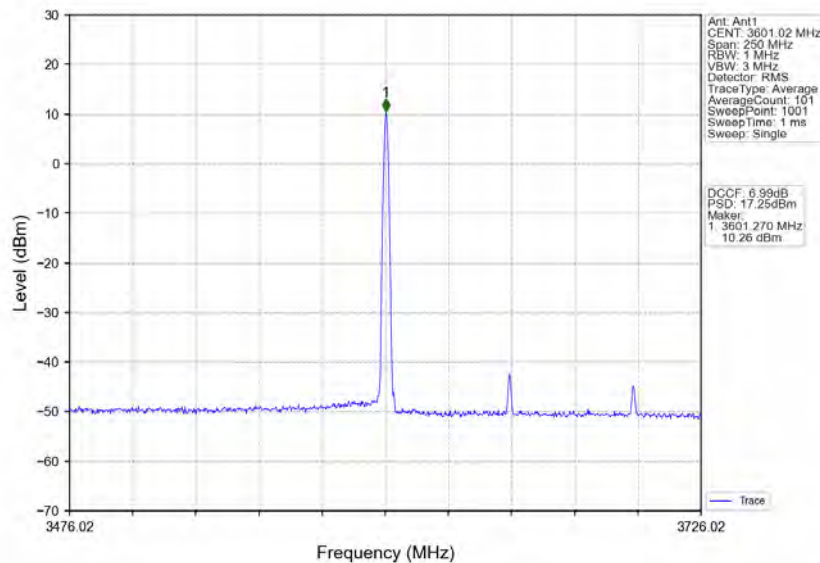
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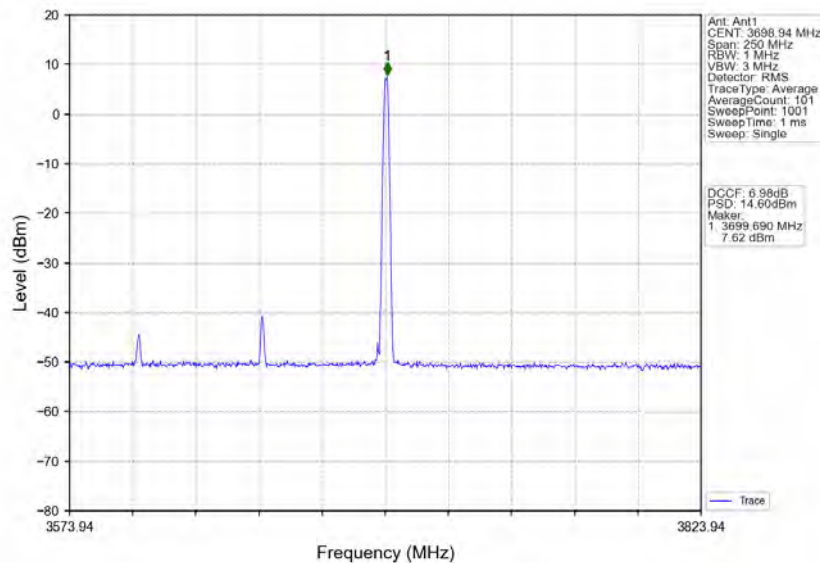
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Edge_1RB_Right



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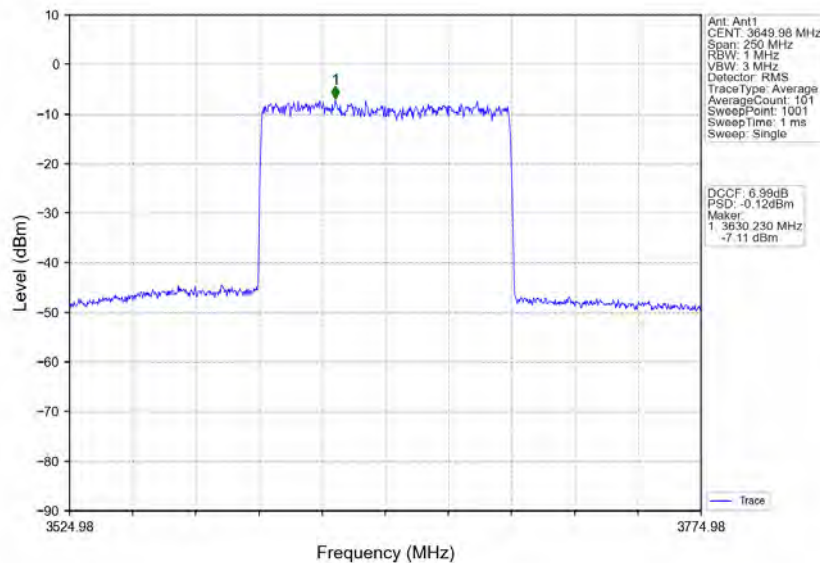
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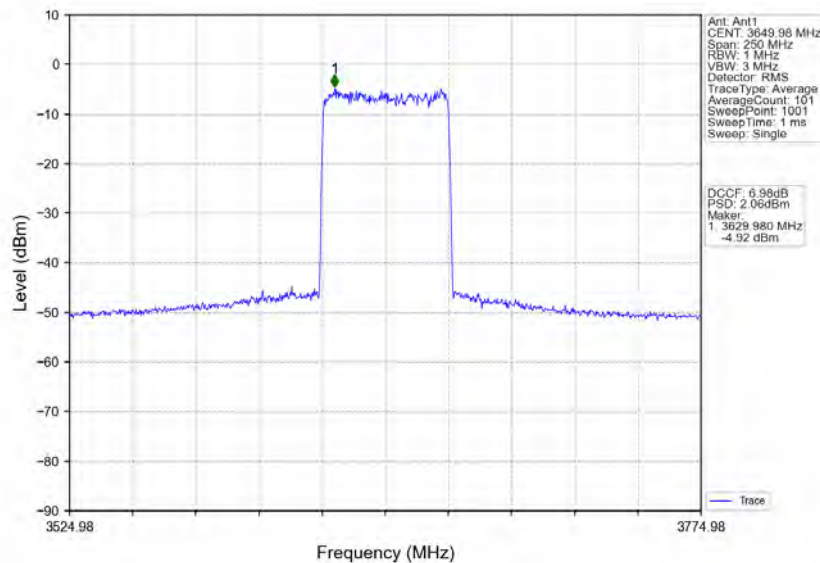
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Inner_Full



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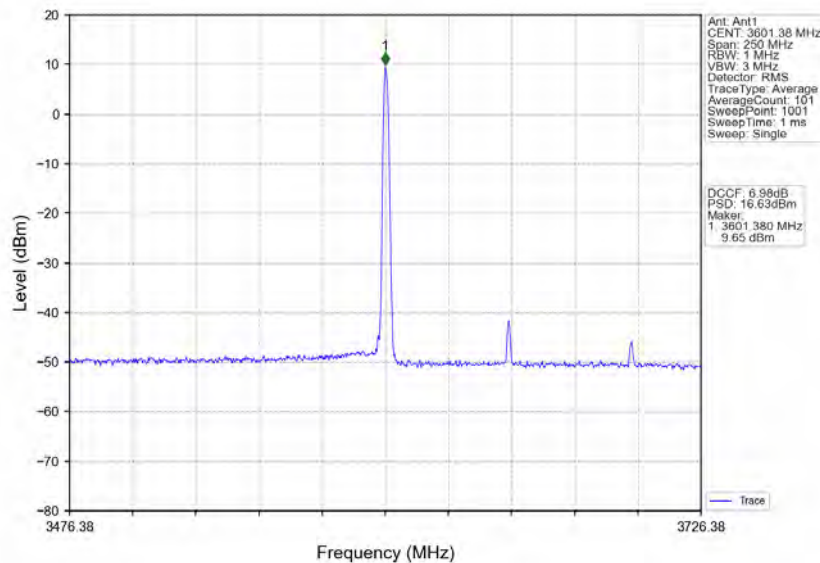
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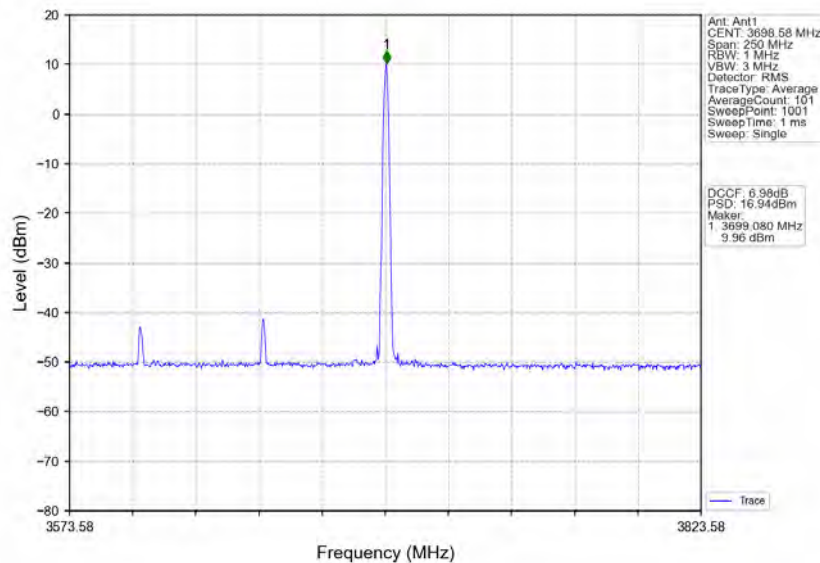
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3649.98MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3649.98MHz_Inner_1RB_Right



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3. Frequency Stability

3.1 30k_MIMO_10MHz

3.1.1 Test Result

5G NR n78d 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	5.40	0.0015	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	18.90	0.0052	>=-2.5 & <=2.5	Pass
			-20	NV	-11.20	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	12.00	0.0033	>=-2.5 & <=2.5	Pass
			0	NV	8.00	0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	15.50	0.0043	>=-2.5 & <=2.5	Pass
			30	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass
			40	NV	17.70	0.0049	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	5.90	0.0016	>=-2.5 & <=2.5	Pass
				HV	14.10	0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	10.80	0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	10.40	0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	15.10	0.0042	>=-2.5 & <=2.5	Pass
			0	NV	8.60	0.0024	>=-2.5 & <=2.5	Pass
			10	NV	3.50	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	14.60	0.0040	>=-2.5 & <=2.5	Pass
			30	NV	15.80	0.0044	>=-2.5 & <=2.5	Pass
			40	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
				HV	18.10	0.0050	>=-2.5 & <=2.5	Pass
			-30	NV	14.80	0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	24.20	0.0067	>=-2.5 & <=2.5	Pass
			-10	NV	14.60	0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	30.90	0.0085	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
				HV	14.10	0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	1.10	0.0003	>=-2.5 & <=2.5	Pass
			-10	NV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	10.00	0.0028	>=-2.5 & <=2.5	Pass
			10	NV	16.90	0.0047	>=-2.5 & <=2.5	Pass
			20	NV	17.30	0.0048	>=-2.5 & <=2.5	Pass
			30	NV	17.80	0.0049	>=-2.5 & <=2.5	Pass

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		40	NV	12.10	0.0033	>=-2.5 & <=2.5	Pass
		50	NV	13.30	0.0037	>=-2.5 & <=2.5	Pass

3.2 30k_MIMO_15MHz

3.2.1 Test Result

5G NR n78d SCS=30kHz MIMO 15MHz								
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	-11.50	-0.0032	>=-2.5 & <=2.5	Pass
				HV	9.90	0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	11.30	0.0031	>=-2.5 & <=2.5	Pass
			0	NV	23.00	0.0063	>=-2.5 & <=2.5	Pass
			10	NV	17.20	0.0047	>=-2.5 & <=2.5	Pass
			20	NV	10.10	0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	10.40	0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	5.80	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-15.60	-0.0043	>=-2.5 & <=2.5	Pass
			20	NV	1.40	0.0004	>=-2.5 & <=2.5	Pass
			30	NV	-11.50	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			50	NV	-22.60	-0.0062	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	4.00	0.0011	>=-2.5 & <=2.5	Pass
				HV	-18.30	-0.0050	>=-2.5 & <=2.5	Pass
			-30	NV	13.40	0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-10.40	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	4.30	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-1.60	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			50	NV	8.20	0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	8.40	0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-12.80	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-17.60	-0.0049	>=-2.5 & <=2.5	Pass
			30	NV	10.40	0.0029	>=-2.5 & <=2.5	Pass



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		40	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
		50	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass

3.3 30k_MIMO_20MHz

3.3.1 Test Result

5G NR n78d 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	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	8.10	0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-10.00	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-15.60	-0.0043	>=-2.5 & <=2.5	Pass
			0	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	1.30	0.0004	>=-2.5 & <=2.5	Pass
			50	NV	7.40	0.0020	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	5.20	0.0014	>=-2.5 & <=2.5	Pass
				HV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	6.80	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	6.10	0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	11.50	0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			50	NV	6.90	0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	11.10	0.0031	>=-2.5 & <=2.5	Pass
				HV	-14.20	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-11.90	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-13.00	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	18.70	0.0052	>=-2.5 & <=2.5	Pass
			10	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	2.60	0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	11.10	0.0031	>=-2.5 & <=2.5	Pass
			50	NV	6.80	0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-12.20	-0.0034	>=-2.5 & <=2.5	Pass
				HV	7.80	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	1.10	0.0003	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-9.40	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass



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		40	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
		50	NV	4.40	0.0012	>=-2.5 & <=2.5	Pass

3.4 30k_MIMO_30MHz

3.4.1 Test Result

5G NR n78d SCS=30kHz MIMO 30MHz								
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	1.70	0.0005	>=-2.5 & <=2.5	Pass
				HV	10.20	0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	17.40	0.0048	>=-2.5 & <=2.5	Pass
			-20	NV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	9.90	0.0027	>=-2.5 & <=2.5	Pass
			10	NV	3.00	0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	7.50	0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
				HV	0.80	0.0002	>=-2.5 & <=2.5	Pass
			-30	NV	12.70	0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	5.20	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-16.70	-0.0046	>=-2.5 & <=2.5	Pass
			0	NV	-11.30	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	13.50	0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			50	NV	9.70	0.0027	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
				HV	11.00	0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	7.80	0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	3.80	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	2.80	0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	5.50	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-9.50	-0.0026	>=-2.5 & <=2.5	Pass
			50	NV	8.70	0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	9.70	0.0027	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	10.30	0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	8.50	0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	17.40	0.0048	>=-2.5 & <=2.5	Pass
			0	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	1.60	0.0004	>=-2.5 & <=2.5	Pass
			20	NV	6.90	0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass



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		40	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
		50	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass

3.5 30k_MIMO_40MHz

3.5.1 Test Result

5G NR n78d 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	14.60	0.0040	>=-2.5 & <=2.5	Pass
				HV	7.30	0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	12.30	0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	11.80	0.0033	>=-2.5 & <=2.5	Pass
			0	NV	-10.00	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	7.60	0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	19.90	0.0055	>=-2.5 & <=2.5	Pass
			40	NV	9.60	0.0026	>=-2.5 & <=2.5	Pass
			50	NV	2.40	0.0007	>=-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	17.60	0.0049	>=-2.5 & <=2.5	Pass
			-30	NV	16.70	0.0046	>=-2.5 & <=2.5	Pass
			-20	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	7.00	0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			20	NV	6.90	0.0019	>=-2.5 & <=2.5	Pass
			30	NV	7.20	0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			50	NV	17.90	0.0049	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
				HV	1.30	0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	2.10	0.0006	>=-2.5 & <=2.5	Pass
			-20	NV	4.60	0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
			0	NV	9.20	0.0025	>=-2.5 & <=2.5	Pass
			10	NV	18.10	0.0050	>=-2.5 & <=2.5	Pass
			20	NV	4.60	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			50	NV	-11.60	-0.0032	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	9.00	0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	6.40	0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-15.40	-0.0042	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	4.90	0.0014	>=-2.5 & <=2.5	Pass



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		40	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
		50	NV	11.10	0.0031	>=-2.5 & <=2.5	Pass

3.6 30k_MIMO_50MHz

3.6.1 Test Result

5G NR n78d SCS=30kHz MIMO 50MHz								
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	6.60	0.0018	>=-2.5 & <=2.5	Pass
				HV	10.50	0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	7.50	0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	13.60	0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			0	NV	12.30	0.0034	>=-2.5 & <=2.5	Pass
			10	NV	8.60	0.0024	>=-2.5 & <=2.5	Pass
			20	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			30	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	1.30	0.0004	>=-2.5 & <=2.5	Pass
			50	NV	8.00	0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	10.90	0.0030	>=-2.5 & <=2.5	Pass
				HV	22.60	0.0062	>=-2.5 & <=2.5	Pass
			-30	NV	2.90	0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	11.60	0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	7.50	0.0021	>=-2.5 & <=2.5	Pass
			10	NV	2.90	0.0008	>=-2.5 & <=2.5	Pass
			20	NV	6.30	0.0017	>=-2.5 & <=2.5	Pass
			30	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			40	NV	12.60	0.0035	>=-2.5 & <=2.5	Pass
			50	NV	9.50	0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	7.00	0.0019	>=-2.5 & <=2.5	Pass
				HV	8.20	0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	8.40	0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	7.10	0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	2.00	0.0006	>=-2.5 & <=2.5	Pass
			20	NV	3.10	0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0012	>=-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	5.00	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	14.00	0.0039	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-0.30	-0.0001	>=-2.5 & <=2.5	Pass
			20	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			30	NV	7.30	0.0020	>=-2.5 & <=2.5	Pass



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		40	NV	2.40	0.0007	>=-2.5 & <=2.5	Pass
		50	NV	6.10	0.0017	>=-2.5 & <=2.5	Pass

3.7 30k_MIMO_60MHz

3.7.1 Test Result

5G NR n78d SCS=30kHz MIMO 60MHz								
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	7.60	0.0021	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	8.60	0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	6.70	0.0018	>=-2.5 & <=2.5	Pass
			30	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-10.10	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	8.10	0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	2.70	0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	14.20	0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-10.50	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	3.00	0.0008	>=-2.5 & <=2.5	Pass
			50	NV	14.00	0.0039	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	3.70	0.0010	>=-2.5 & <=2.5	Pass
				HV	3.20	0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	13.30	0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	5.90	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			20	NV	4.20	0.0012	>=-2.5 & <=2.5	Pass
			30	NV	5.40	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	7.80	0.0022	>=-2.5 & <=2.5	Pass
			50	NV	15.80	0.0044	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	2.80	0.0008	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	2.90	0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	8.30	0.0023	>=-2.5 & <=2.5	Pass
			0	NV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	7.90	0.0022	>=-2.5 & <=2.5	Pass
			30	NV	3.00	0.0008	>=-2.5 & <=2.5	Pass



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		40	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
		50	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass

3.8 30k_MIMO_70MHz

3.8.1 Test Result

5G NR n78d SCS=30kHz MIMO 70MHz								
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	2.50	0.0007	>=-2.5 & <=2.5	Pass
				HV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	9.90	0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	2.00	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	1.40	0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	2.90	0.0008	>=-2.5 & <=2.5	Pass
			40	NV	-12.70	-0.0035	>=-2.5 & <=2.5	Pass
			50	NV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	11.70	0.0032	>=-2.5 & <=2.5	Pass
				HV	8.00	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	10.10	0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	8.30	0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	9.30	0.0026	>=-2.5 & <=2.5	Pass
			40	NV	5.70	0.0016	>=-2.5 & <=2.5	Pass
			50	NV	3.80	0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	11.40	0.0031	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	9.40	0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-1.30	-0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	16.90	0.0047	>=-2.5 & <=2.5	Pass
			30	NV	2.90	0.0008	>=-2.5 & <=2.5	Pass
			40	NV	4.60	0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	6.80	0.0019	>=-2.5 & <=2.5	Pass
				HV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	3.50	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-11.50	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	14.70	0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass



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		40	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
		50	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass

3.9 30k_MIMO_80MHz

3.9.1 Test Result

5G NR n78d SCS=30kHz MIMO 80MHz								
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	-19.20	-0.0053	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	10.90	0.0030	>=-2.5 & <=2.5	Pass
			0	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	16.10	0.0044	>=-2.5 & <=2.5	Pass
			30	NV	13.10	0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			50	NV	14.30	0.0039	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	11.10	0.0031	>=-2.5 & <=2.5	Pass
				HV	14.70	0.0041	>=-2.5 & <=2.5	Pass
			-30	NV	10.50	0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	9.50	0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	6.10	0.0017	>=-2.5 & <=2.5	Pass
			50	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	7.20	0.0020	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	11.40	0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	1.80	0.0005	>=-2.5 & <=2.5	Pass
			20	NV	10.40	0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-12.20	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	10.60	0.0029	>=-2.5 & <=2.5	Pass
			50	NV	11.10	0.0031	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	9.40	0.0026	>=-2.5 & <=2.5	Pass
				HV	2.90	0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	4.80	0.0013	>=-2.5 & <=2.5	Pass
			0	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	12.90	0.0036	>=-2.5 & <=2.5	Pass

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		40	NV	6.30	0.0017	>=-2.5 & <=2.5	Pass
		50	NV	7.10	0.0020	>=-2.5 & <=2.5	Pass

3.10 30k_MIMO_90MHz

3.10.1 Test Result

5G NR n78d SCS=30kHz MIMO 90MHz								
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	8.30	0.0023	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	2.70	0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	7.60	0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	4.30	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	1.00	0.0003	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	13.00	0.0036	>=-2.5 & <=2.5	Pass
			40	NV	13.90	0.0038	>=-2.5 & <=2.5	Pass
			50	NV	18.50	0.0051	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-2.10	-0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	6.40	0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	7.80	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	10.90	0.0030	>=-2.5 & <=2.5	Pass
			30	NV	7.60	0.0021	>=-2.5 & <=2.5	Pass
			40	NV	6.70	0.0018	>=-2.5 & <=2.5	Pass
			50	NV	14.60	0.0040	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	6.80	0.0019	>=-2.5 & <=2.5	Pass
				HV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	5.70	0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	12.20	0.0034	>=-2.5 & <=2.5	Pass
			0	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	15.50	0.0043	>=-2.5 & <=2.5	Pass
			20	NV	10.20	0.0028	>=-2.5 & <=2.5	Pass
			30	NV	19.40	0.0054	>=-2.5 & <=2.5	Pass
			40	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			50	NV	8.20	0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	3.80	0.0010	>=-2.5 & <=2.5	Pass
				HV	2.00	0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	11.10	0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	10.70	0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	12.40	0.0034	>=-2.5 & <=2.5	Pass
			0	NV	4.30	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	7.60	0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	8.00	0.0022	>=-2.5 & <=2.5	Pass



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		40	NV	4.40	0.0012	>=-2.5 & <=2.5	Pass
		50	NV	9.10	0.0025	>=-2.5 & <=2.5	Pass

3.11 30k_MIMO_100MHz

3.11.1 Test Result

5G NR n78d SCS=30kHz MIMO 100MHz								
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	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
				HV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	5.90	0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	1.60	0.0004	>=-2.5 & <=2.5	Pass
			0	NV	9.40	0.0026	>=-2.5 & <=2.5	Pass
			10	NV	10.50	0.0029	>=-2.5 & <=2.5	Pass
			20	NV	9.20	0.0025	>=-2.5 & <=2.5	Pass
			30	NV	6.00	0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-19.10	-0.0053	>=-2.5 & <=2.5	Pass
			50	NV	5.70	0.0016	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	11.40	0.0031	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	1.70	0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	10.50	0.0029	>=-2.5 & <=2.5	Pass
			10	NV	7.10	0.0020	>=-2.5 & <=2.5	Pass
			20	NV	3.60	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	4.40	0.0012	>=-2.5 & <=2.5	Pass
			50	NV	4.80	0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	16.90	0.0047	>=-2.5 & <=2.5	Pass
				HV	5.80	0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	12.50	0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	12.00	0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	0.30	0.0001	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	8.10	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-0.50	-0.0001	>=-2.5 & <=2.5	Pass
			30	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			50	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	11.40	0.0031	>=-2.5 & <=2.5	Pass
				HV	7.00	0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	11.30	0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-1.10	-0.0003	>=-2.5 & <=2.5	Pass
			0	NV	-11.70	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass



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			40	NV	4.90	0.0014	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-21.30	-0.0059	≥ -2.5 & ≤ 2.5	Pass

4. 99% & 26dB Bandwidth

4.1 30k_MIMO_10MHz_NTNV

4.1.1 Test Result

5G NR n78d 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	8.65	9.76	/	Pass
	3694.98	Outer Full	8.66	9.65	/	Pass
CP-OFDM 16 QAM	3555	Outer Full	8.71	10.62	/	Pass
	3624.99	Outer Full	8.63	9.76	/	Pass
	3694.98	Outer Full	8.70	9.85	/	Pass
CP-OFDM 64 QAM	3555	Outer Full	8.77	10.29	/	Pass
	3624.99	Outer Full	8.65	9.60	/	Pass
	3694.98	Outer Full	8.70	9.67	/	Pass
CP-OFDM 256 QAM	3555	Outer Full	8.73	10.39	/	Pass
	3624.99	Outer Full	8.59	9.81	/	Pass
	3694.98	Outer Full	8.66	9.44	/	Pass



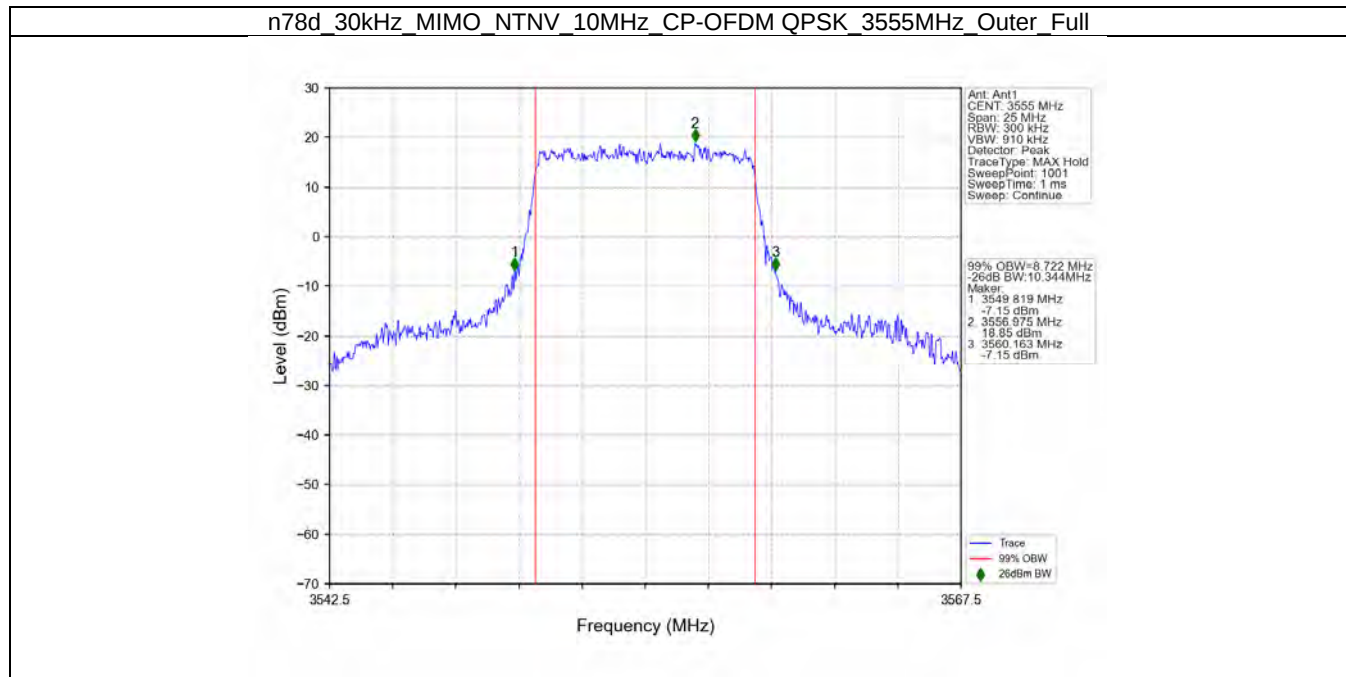
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4.1.2 Test Graph



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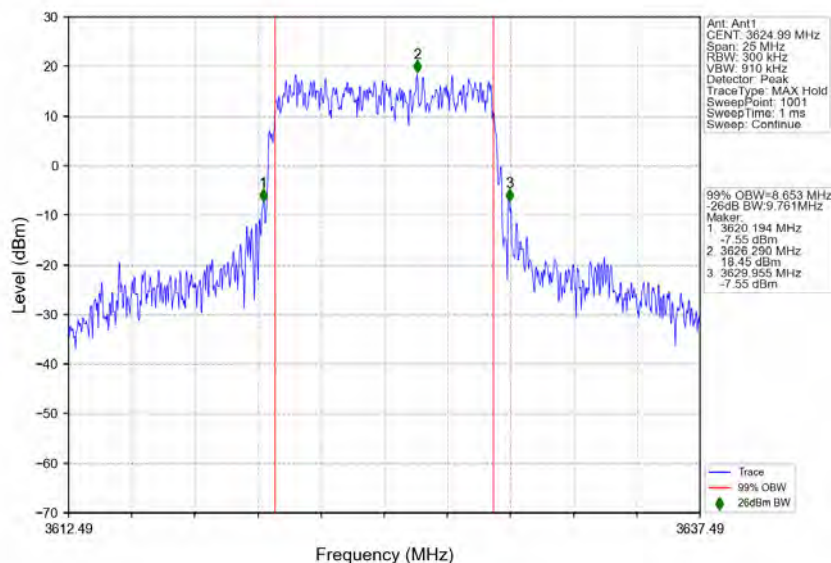
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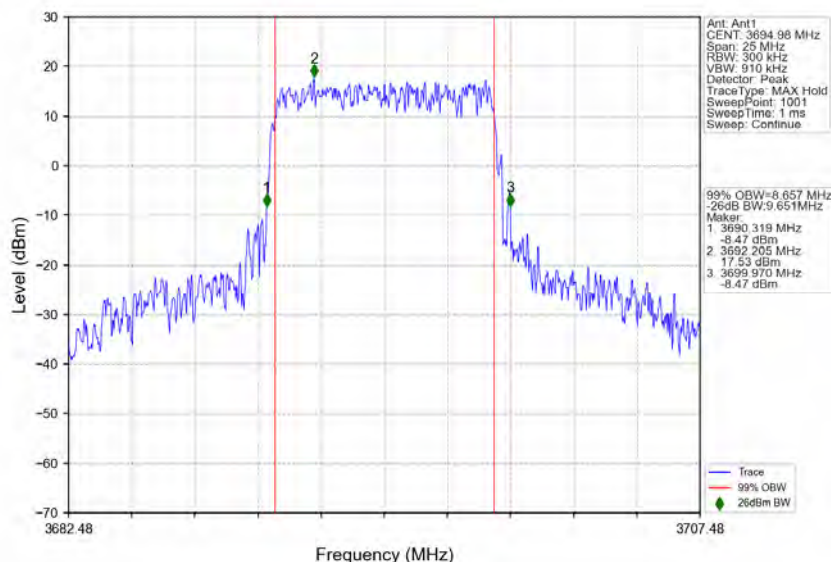
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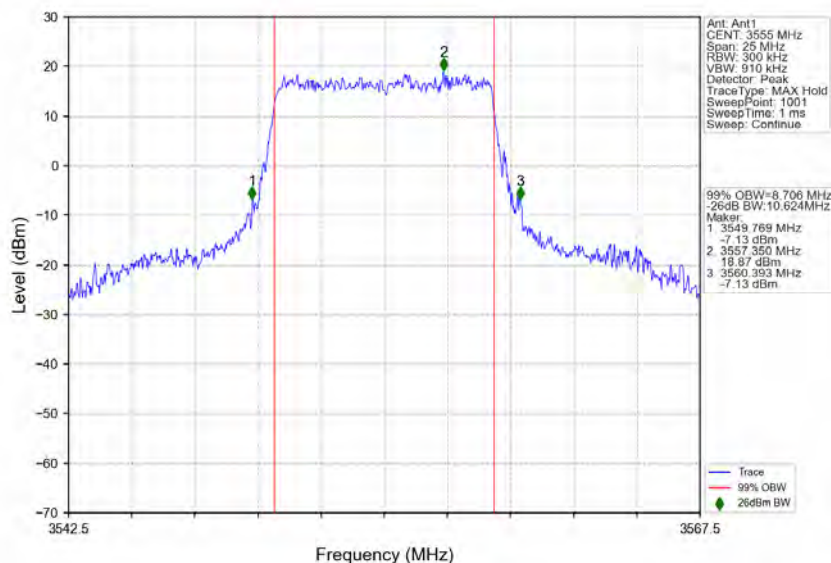
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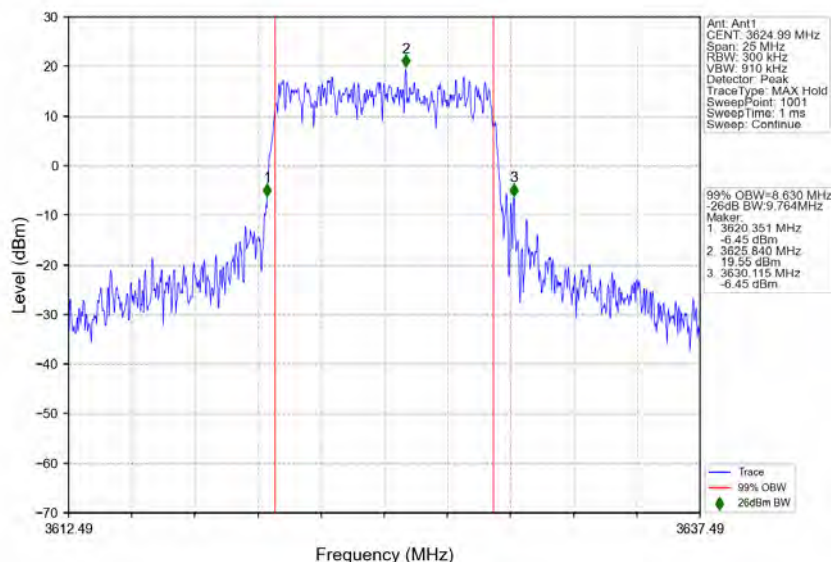
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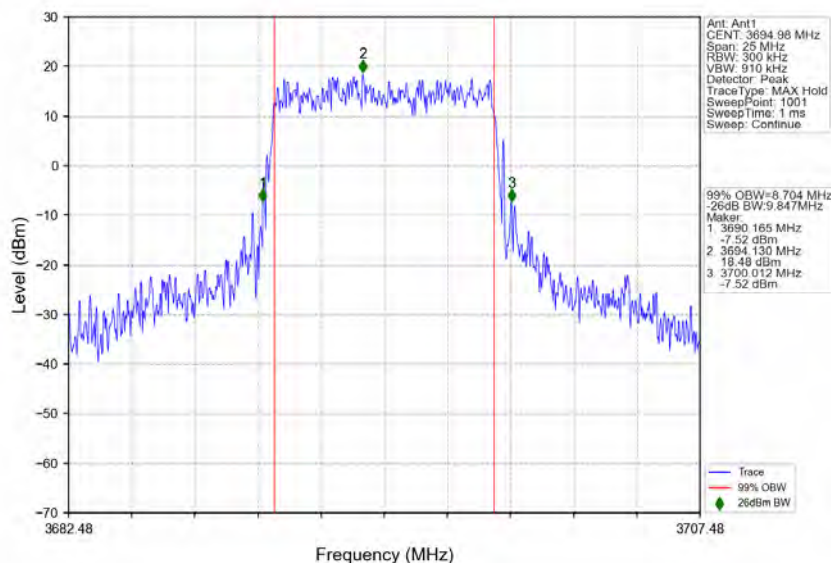
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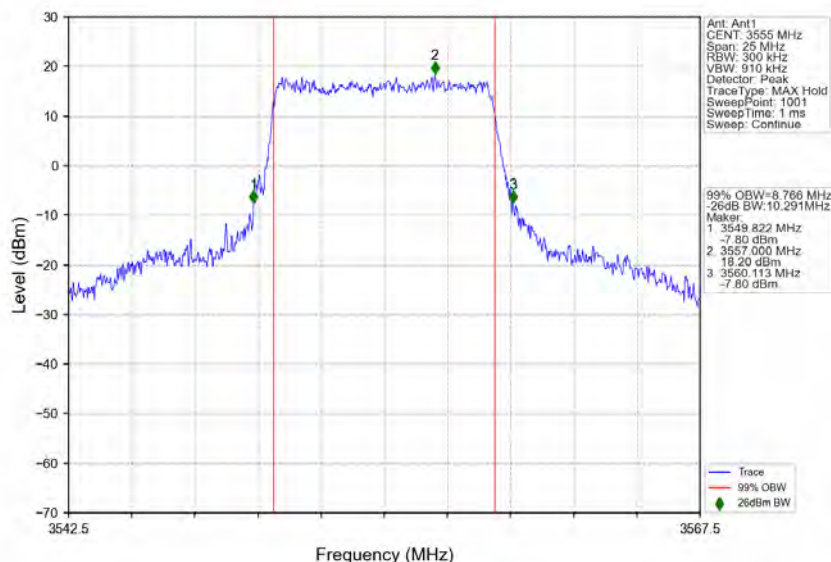
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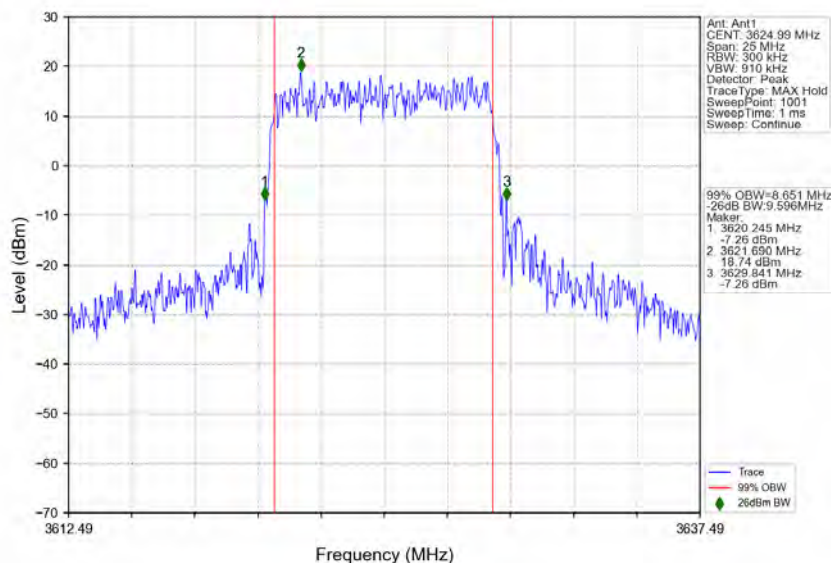
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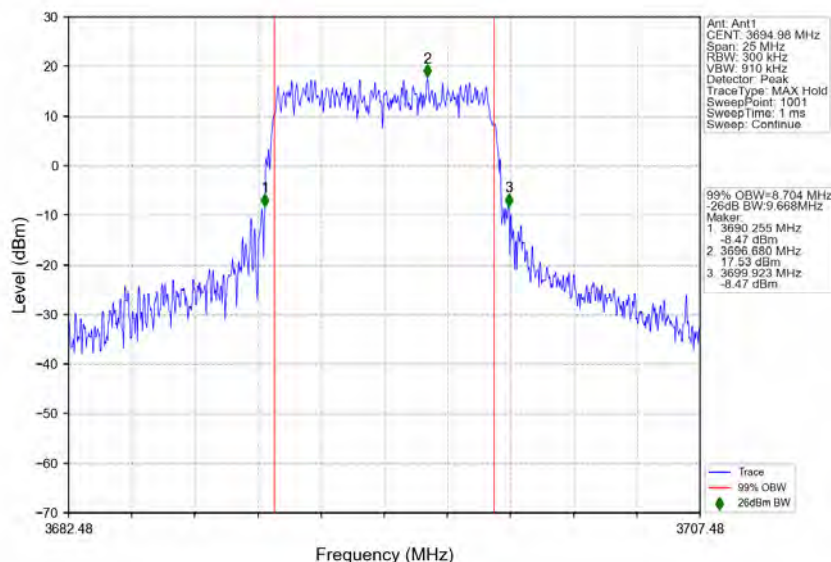
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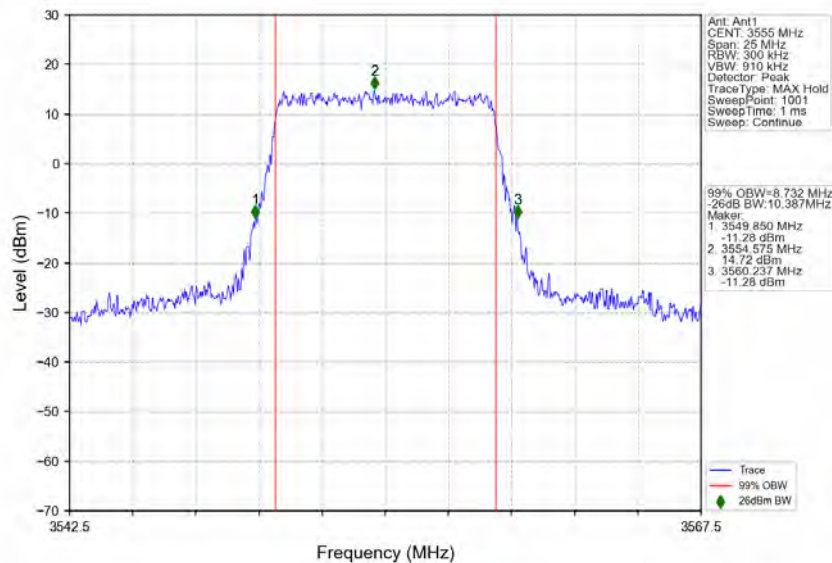
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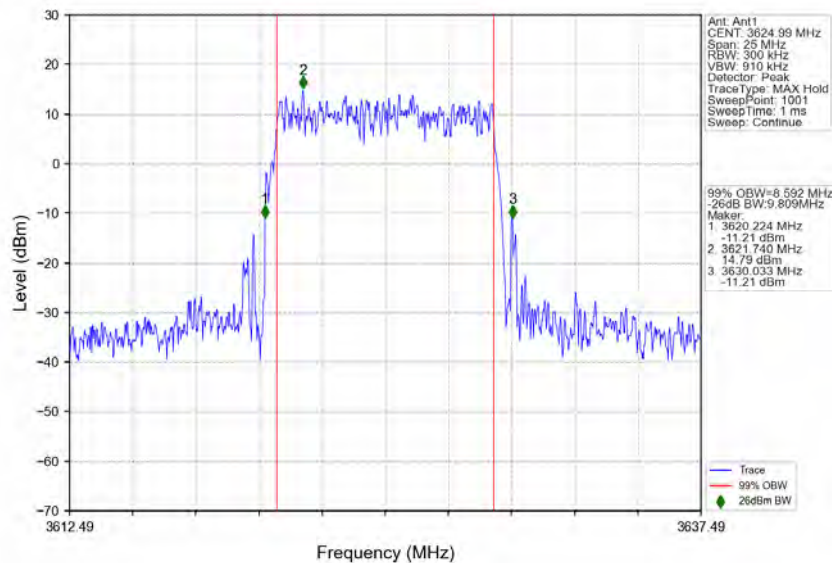
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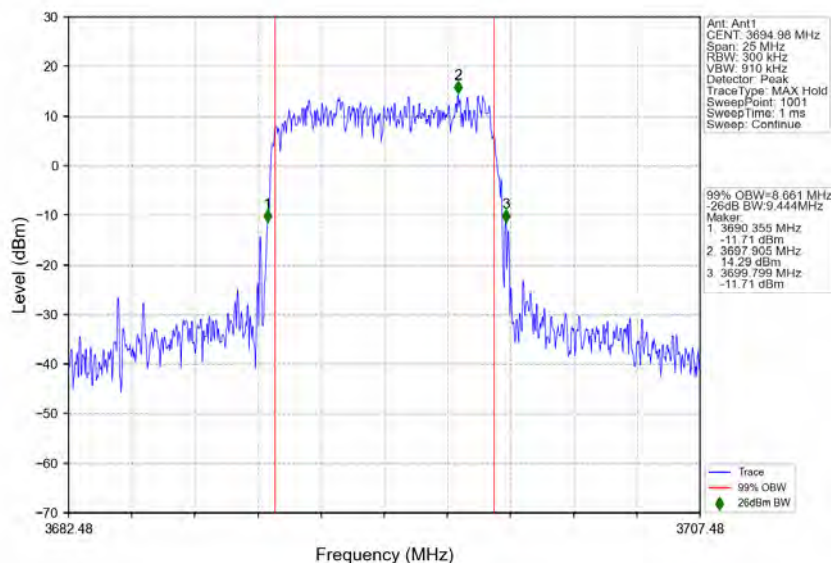
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4.2 30k_MIMO_15MHz_NTNV

4.2.1 Test Result

5G NR n78d SCS=30kHz MIMO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3557.52	Outer Full	13.78	15.49	/	Pass
	3624.99	Outer Full	13.73	15.54	/	Pass
	3692.49	Outer Full	13.71	15.04	/	Pass
CP-OFDM 16 QAM	3557.52	Outer Full	13.90	16.09	/	Pass
	3624.99	Outer Full	13.75	15.16	/	Pass
	3692.49	Outer Full	13.78	14.87	/	Pass
CP-OFDM 64 QAM	3557.52	Outer Full	13.78	16.17	/	Pass
	3624.99	Outer Full	13.80	15.14	/	Pass
	3692.49	Outer Full	13.69	14.91	/	Pass
CP-OFDM 256 QAM	3557.52	Outer Full	13.79	15.57	/	Pass
	3624.99	Outer Full	13.73	14.69	/	Pass
	3692.49	Outer Full	13.73	14.78	/	Pass



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4.2.2 Test Graph



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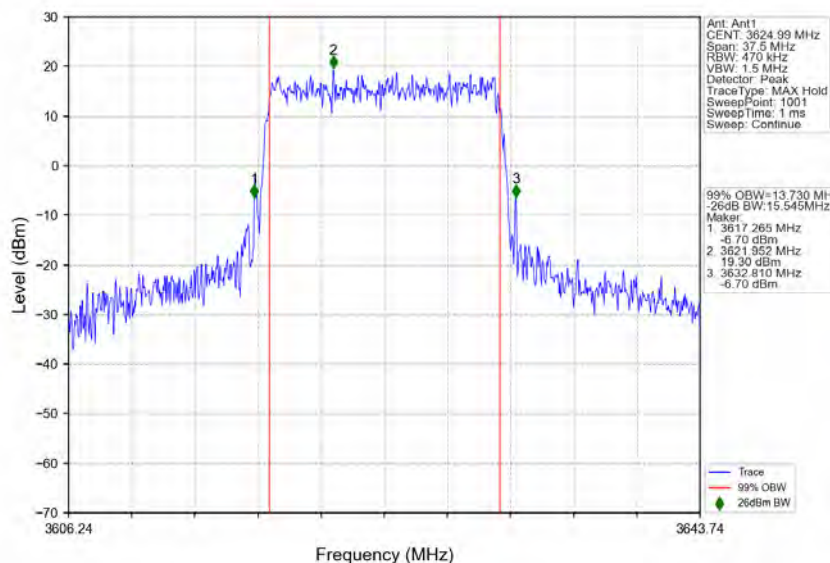
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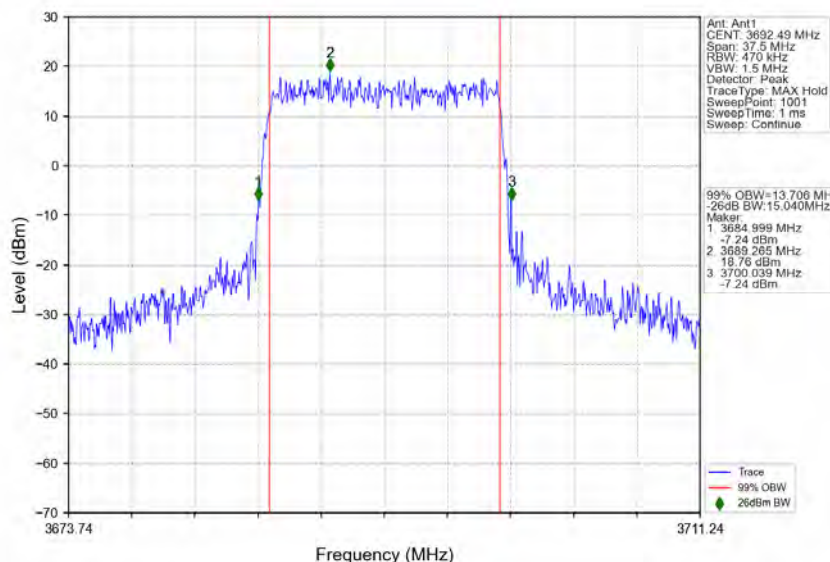
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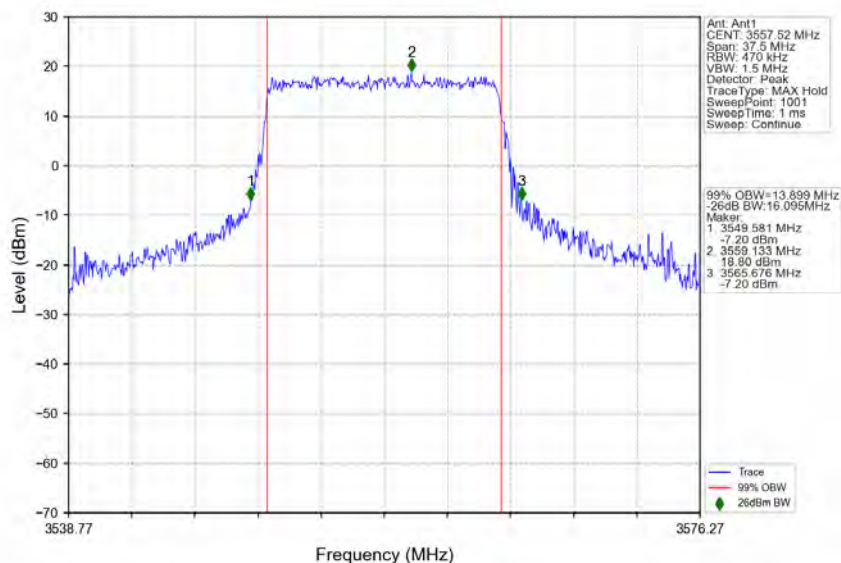
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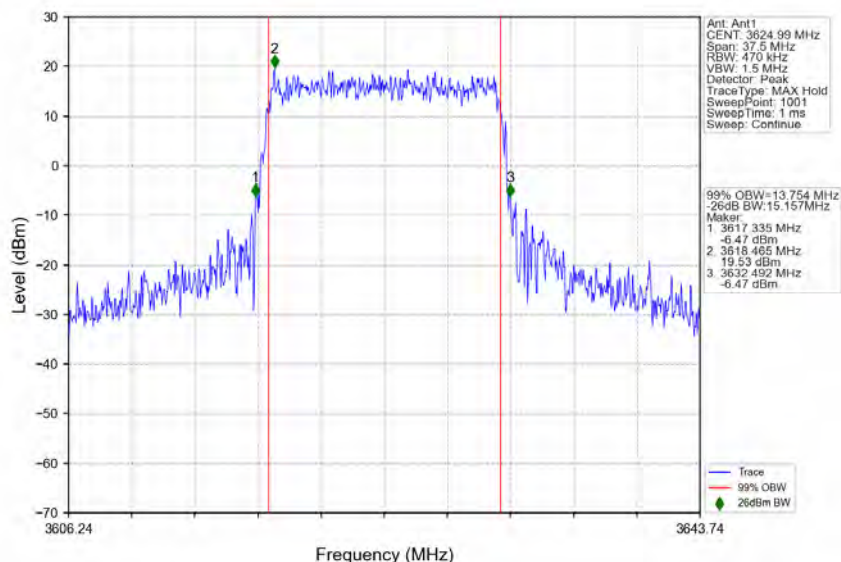
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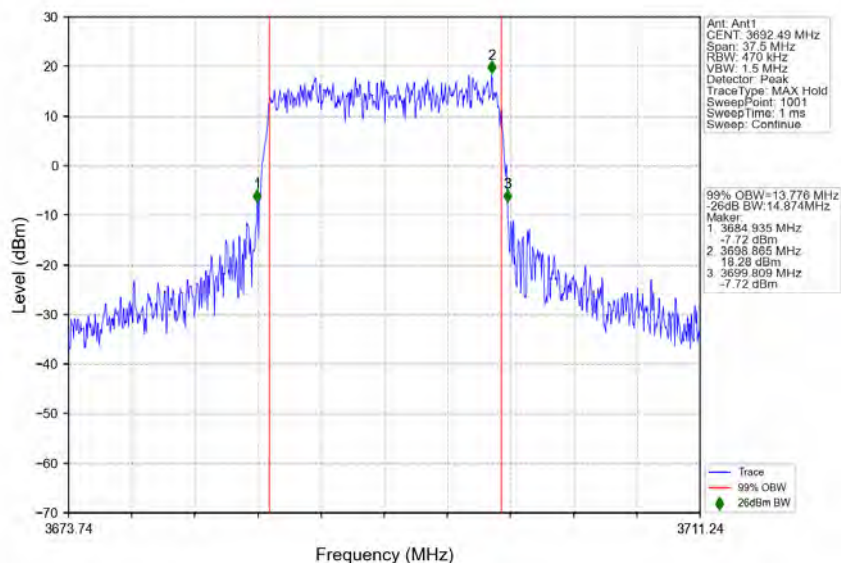
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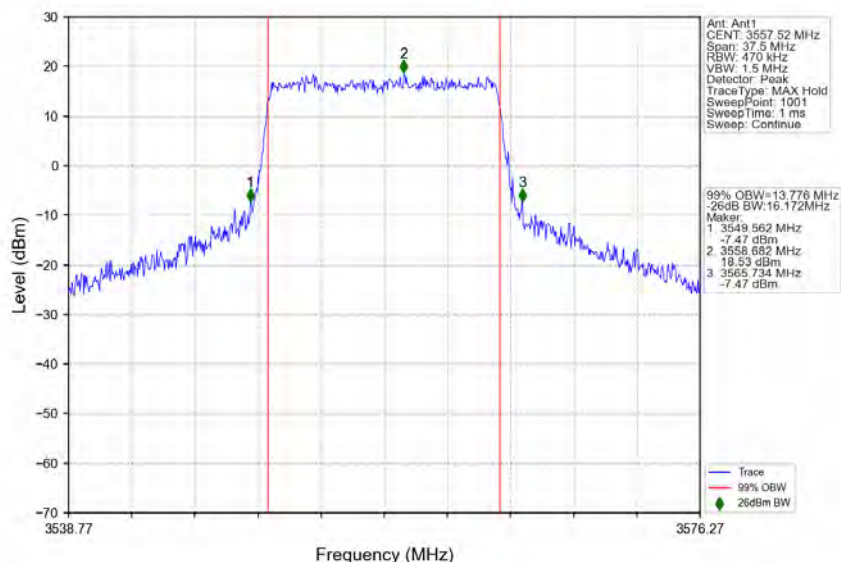
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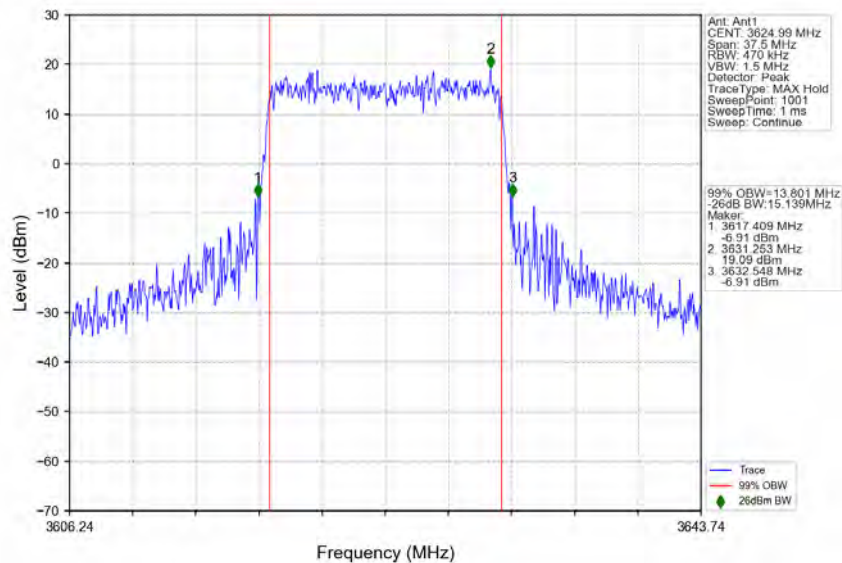
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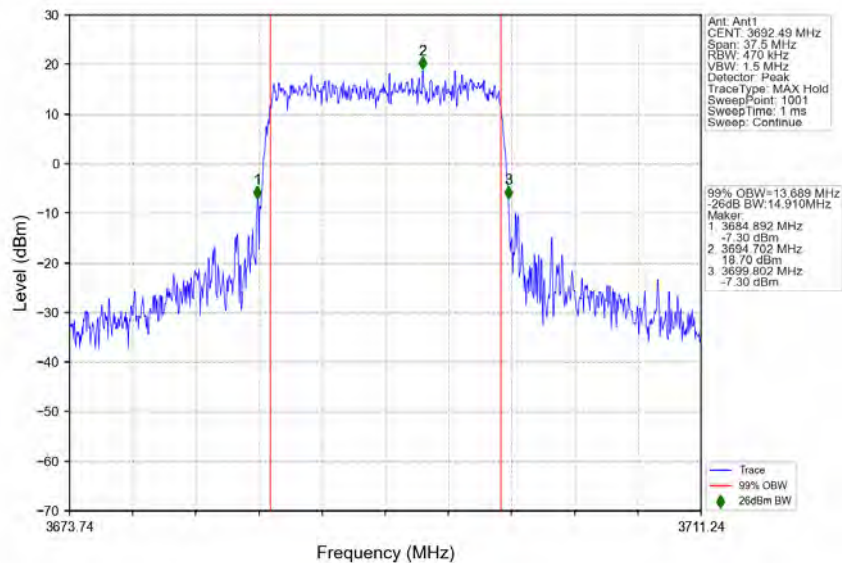
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM_64_QAM_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM_64_QAM_3692.49MHz_Outer_Full



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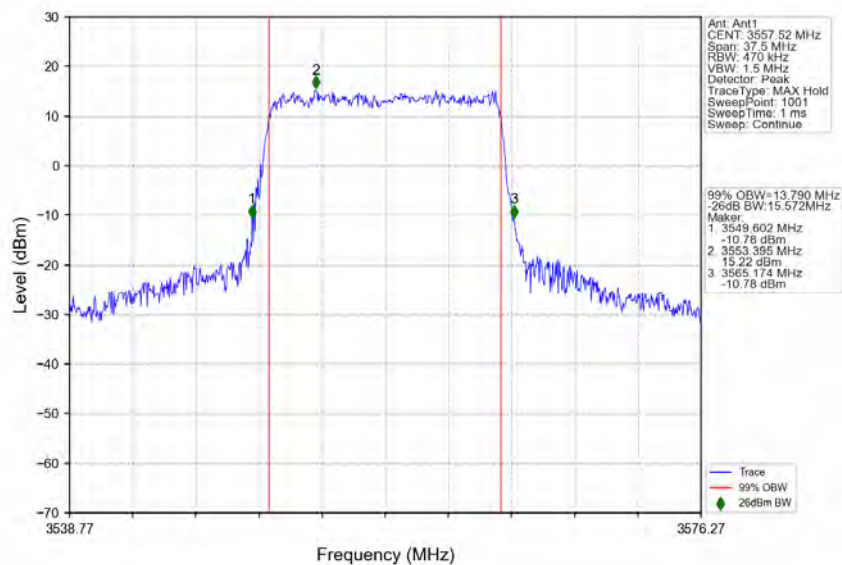
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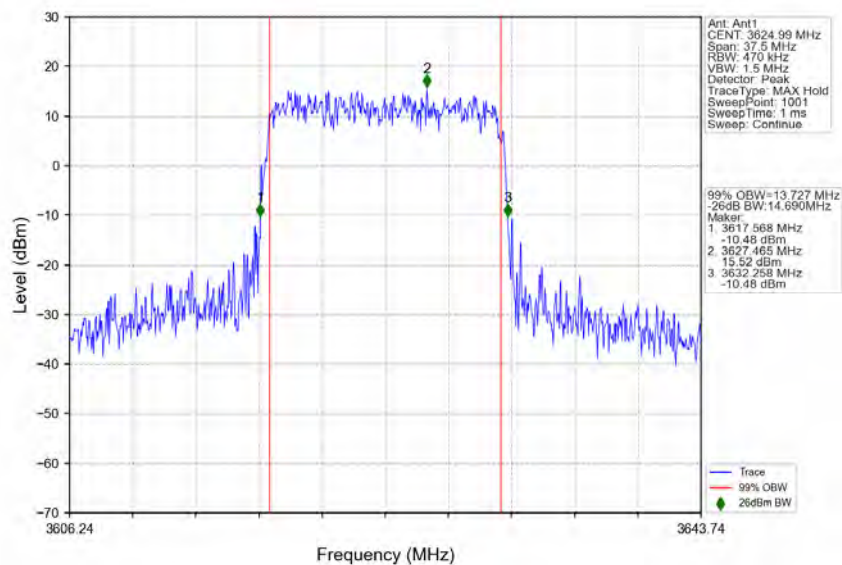
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM_256_QAM_3557.52MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



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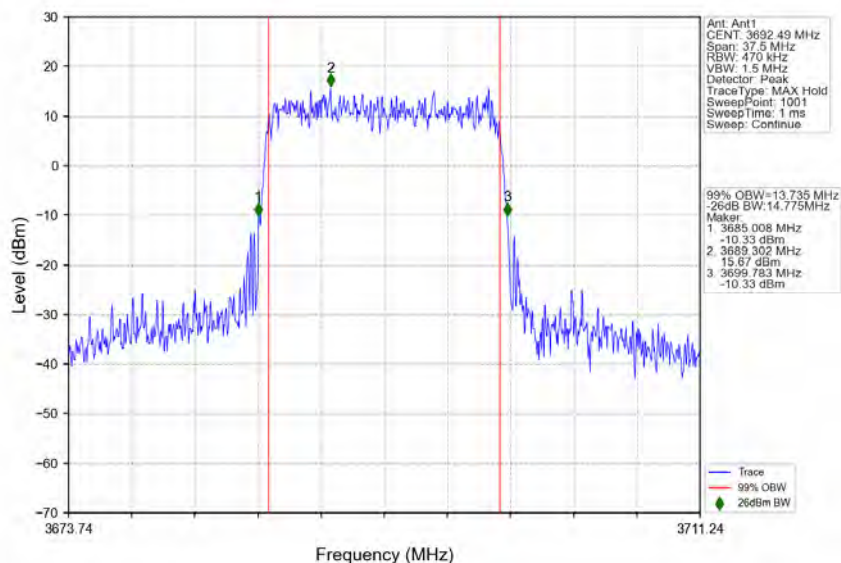
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4.3 30k_MIMO_20MHz_NTNV

4.3.1 Test Result

5G NR n78d 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	18.42	20.59	/	Pass
	3624.99	Outer_Full	18.40	19.67	/	Pass
	3690	Outer_Full	18.39	19.98	/	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	18.41	20.57	/	Pass
	3624.99	Outer_Full	18.31	20.03	/	Pass
	3690	Outer_Full	18.47	19.84	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	18.48	20.48	/	Pass
	3624.99	Outer_Full	18.38	19.96	/	Pass
	3690	Outer_Full	18.39	19.94	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	18.40	20.46	/	Pass
	3624.99	Outer_Full	18.31	19.68	/	Pass
	3690	Outer_Full	18.28	19.96	/	Pass



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