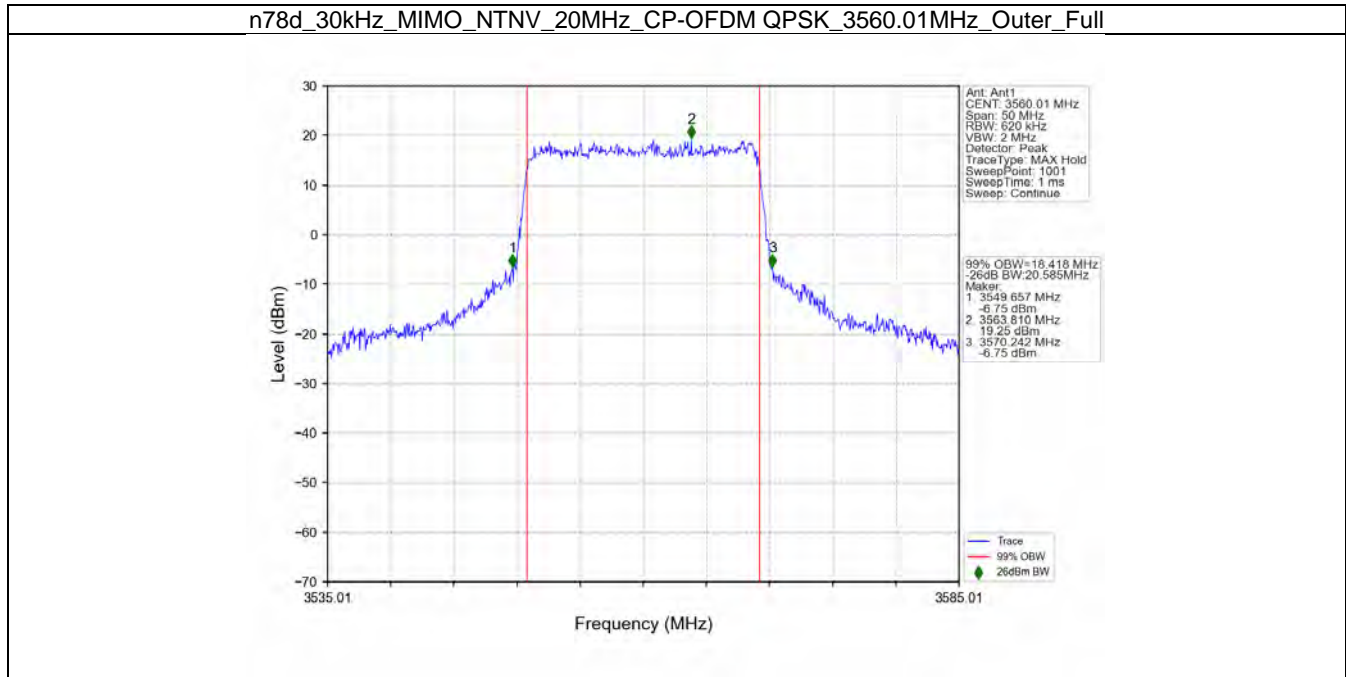


4.3.2 Test Graph



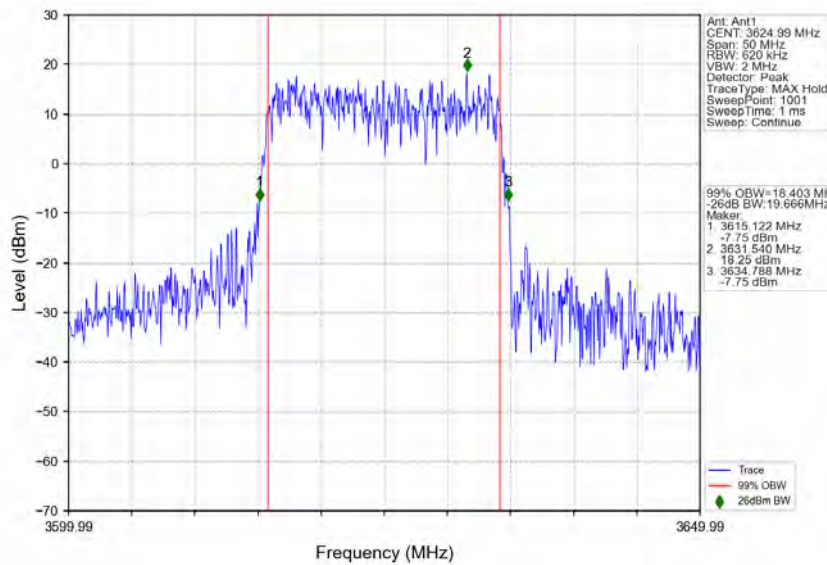
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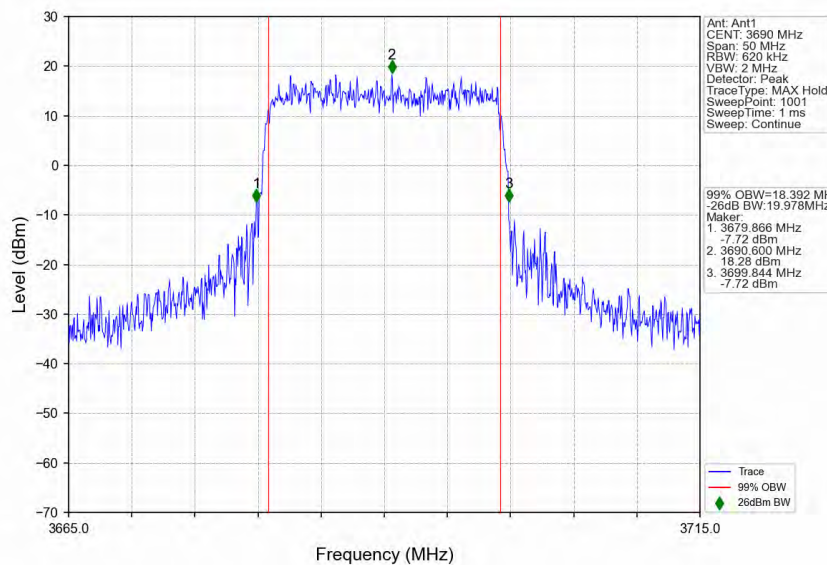
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3690MHz_Outer_Full



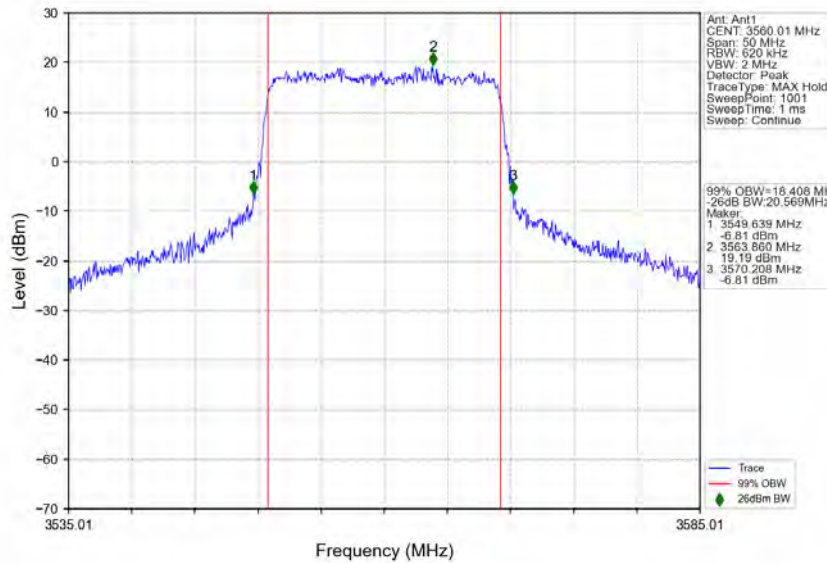
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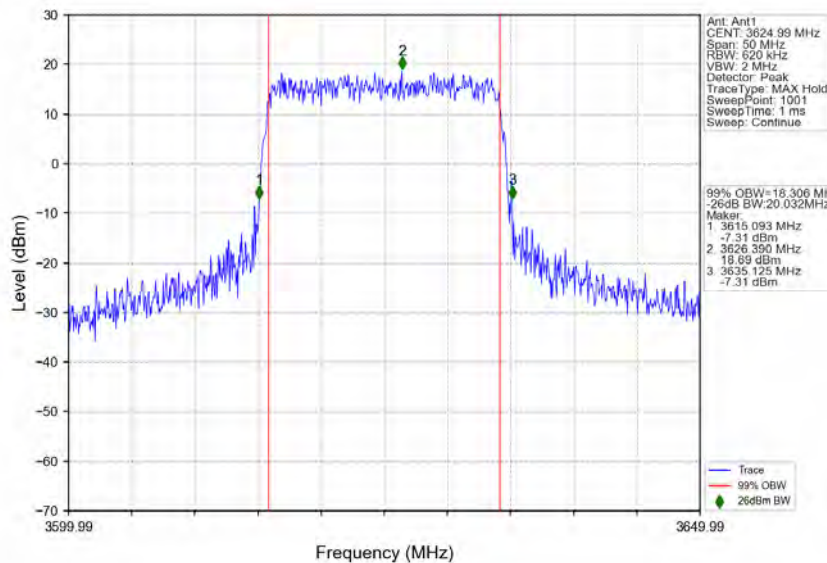
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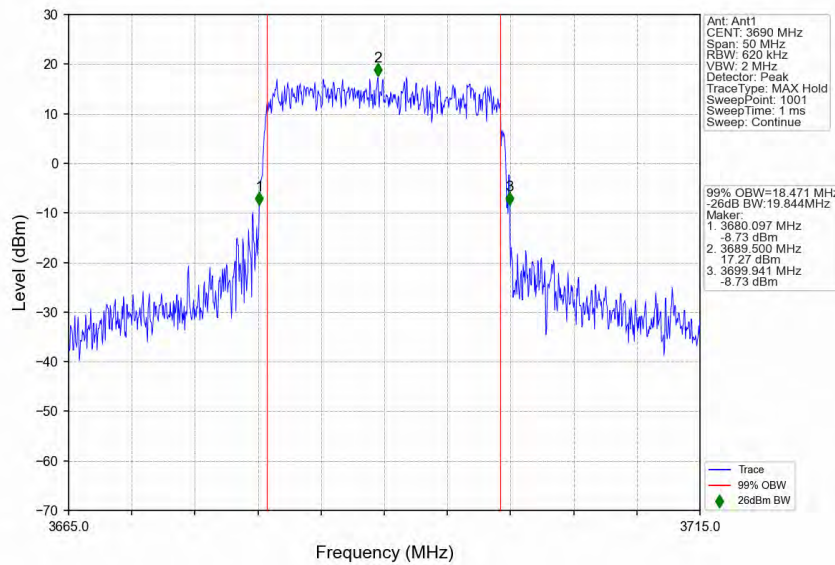
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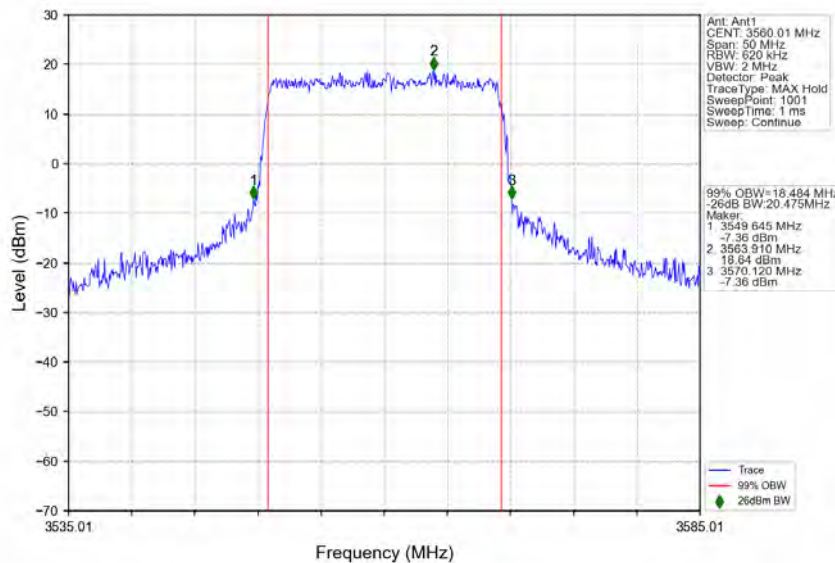
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Outer_Full



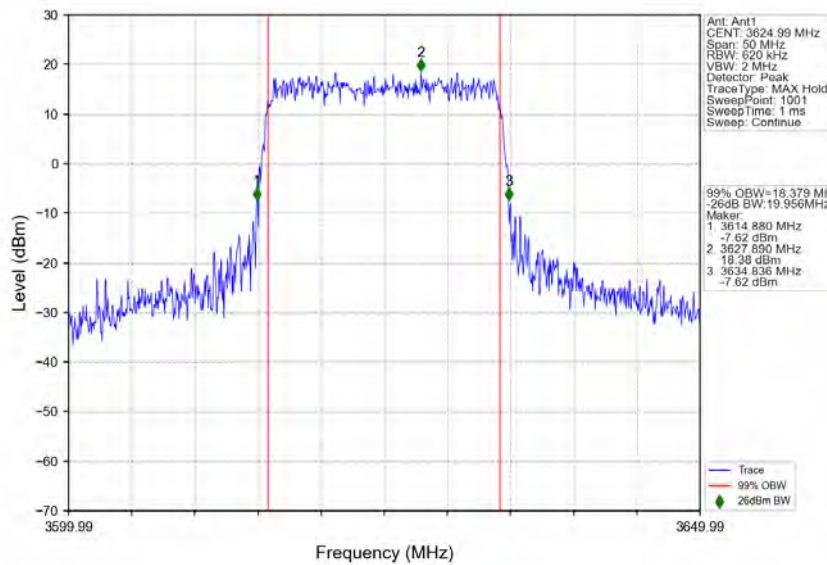
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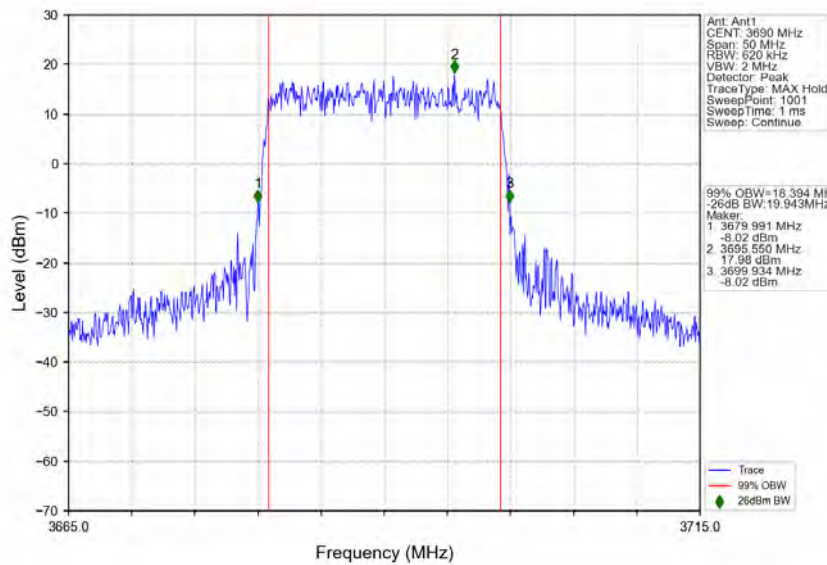
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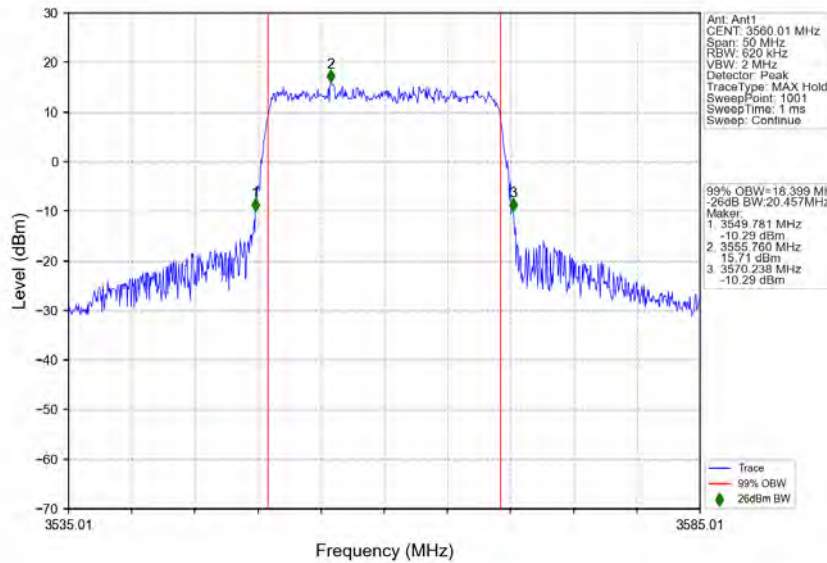
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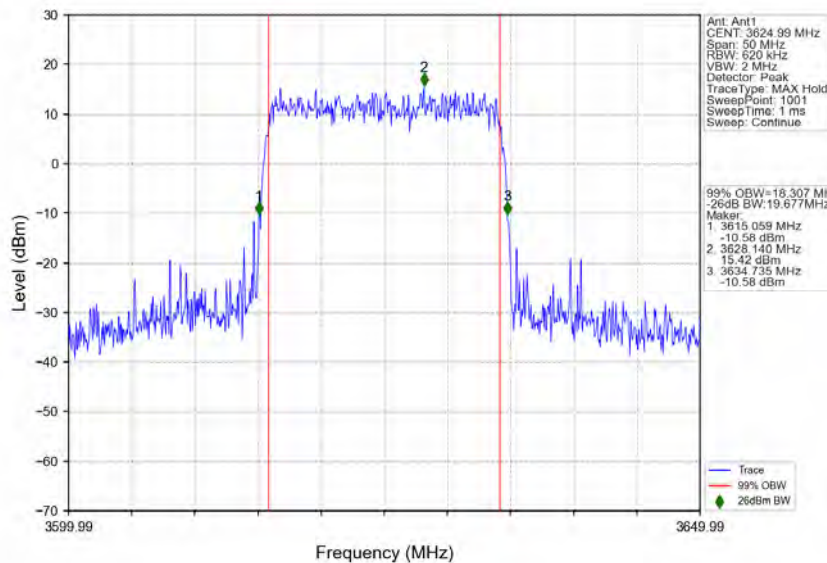
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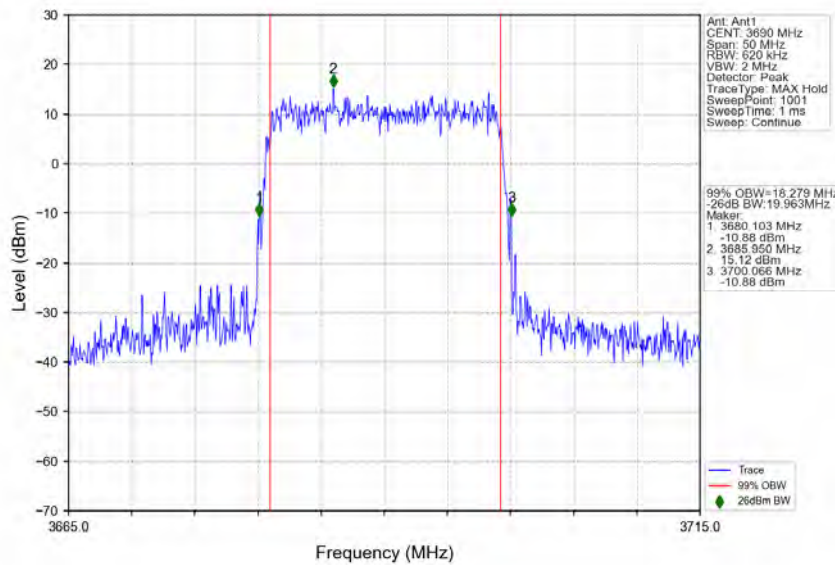
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4.4 30k_MIMO_30MHz_NTNV

4.4.1 Test Result

5G NR n78d SCS=30kHz MIMO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3565.02	Outer_Full	28.20	30.32	/	Pass
	3624.99	Outer_Full	27.86	30.14	/	Pass
	3684.99	Outer_Full	28.08	30.30	/	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	28.09	30.32	/	Pass
	3624.99	Outer_Full	28.18	30.71	/	Pass
	3684.99	Outer_Full	28.01	30.03	/	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	27.98	31.46	/	Pass
	3624.99	Outer_Full	28.01	29.89	/	Pass
	3684.99	Outer_Full	28.05	30.13	/	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	28.05	30.17	/	Pass
	3624.99	Outer_Full	28.08	30.33	/	Pass
	3684.99	Outer_Full	28.23	29.86	/	Pass



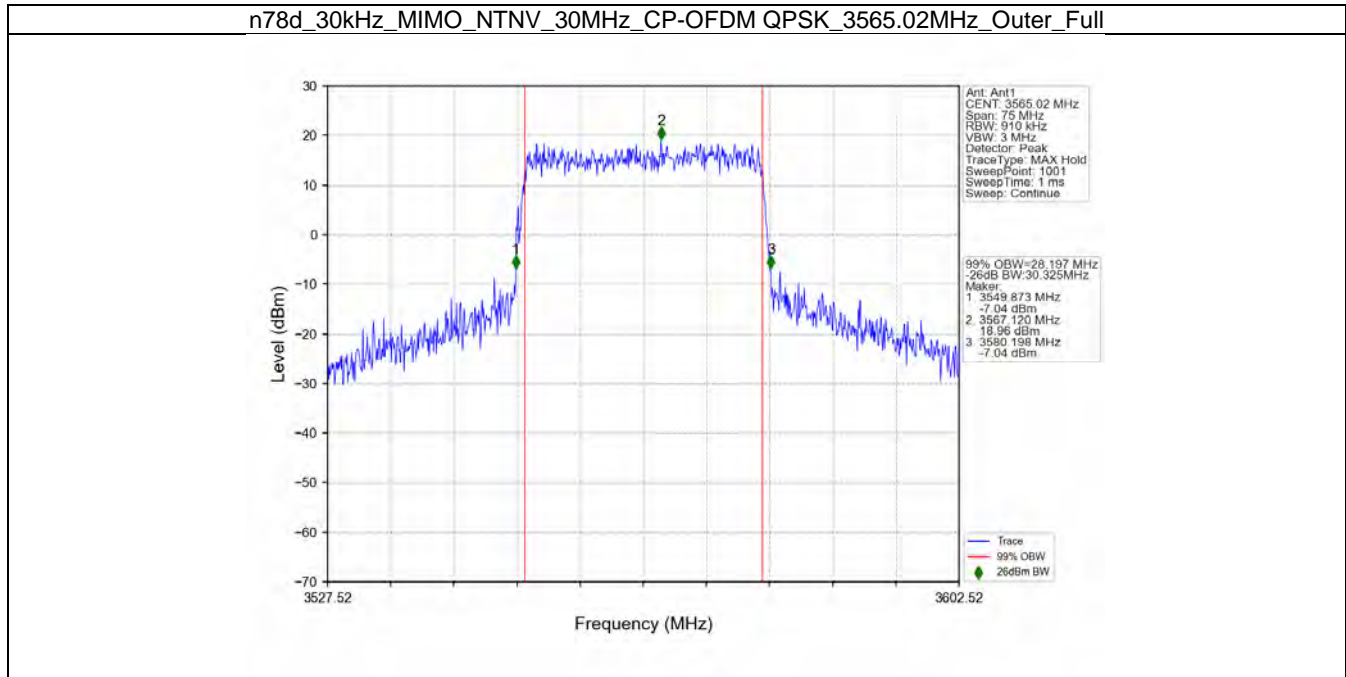
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4.4.2 Test Graph



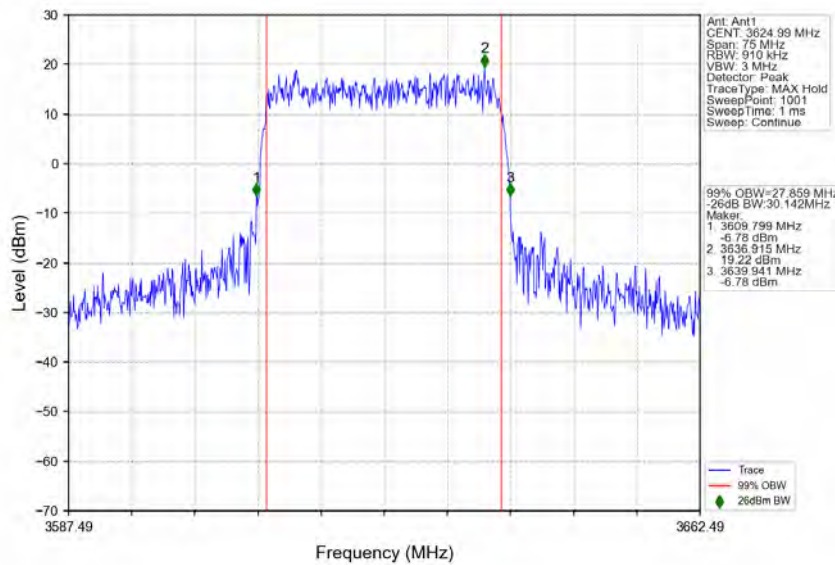
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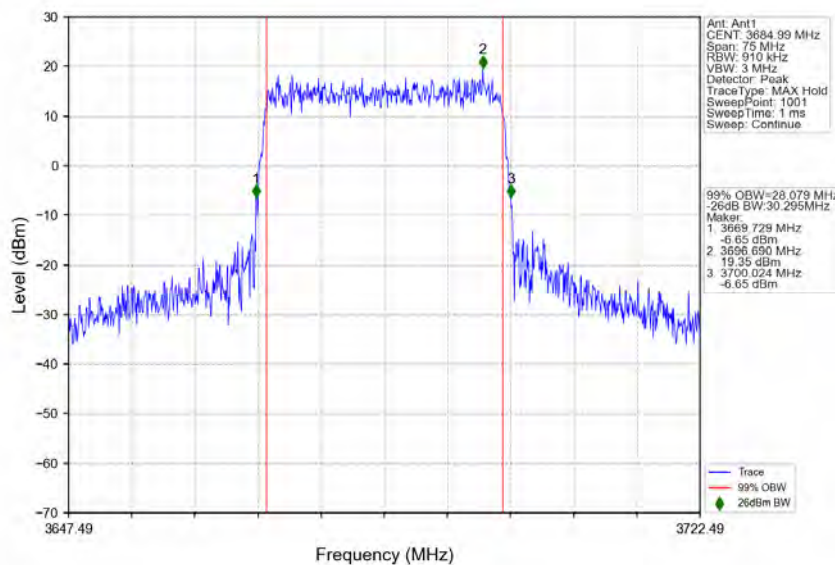
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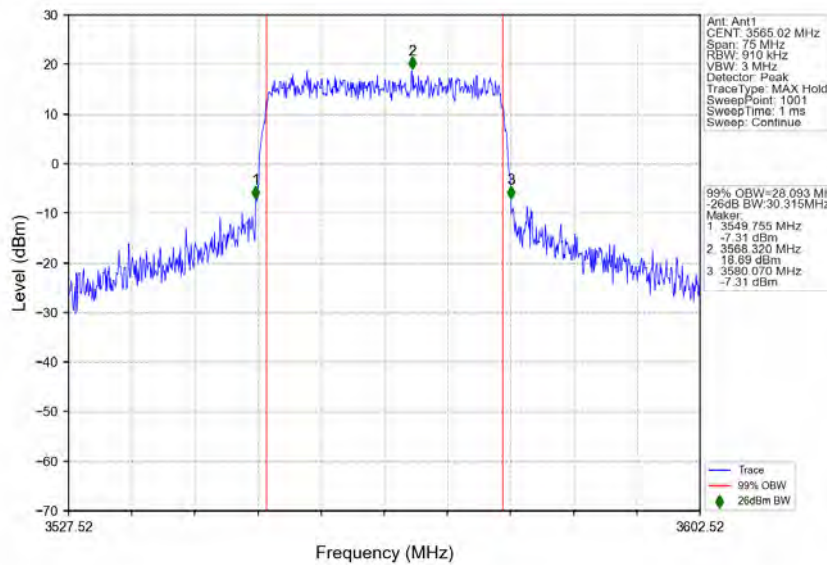
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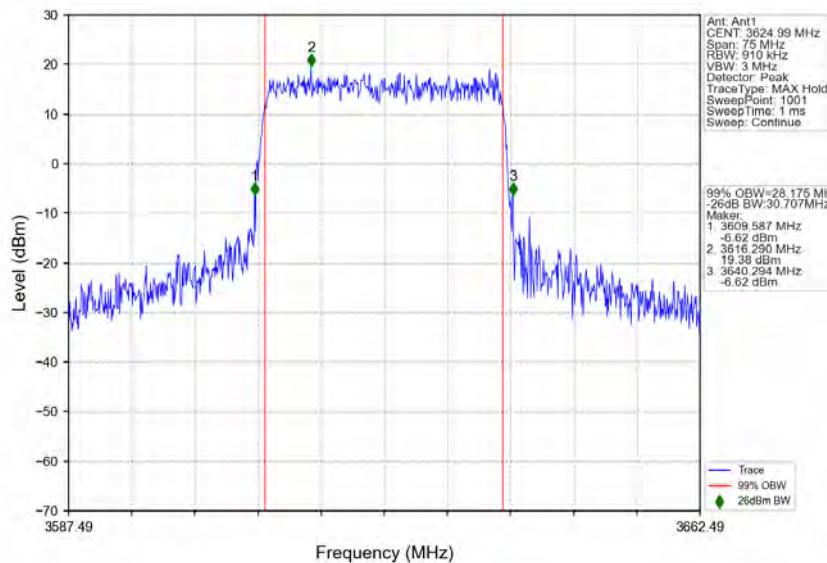
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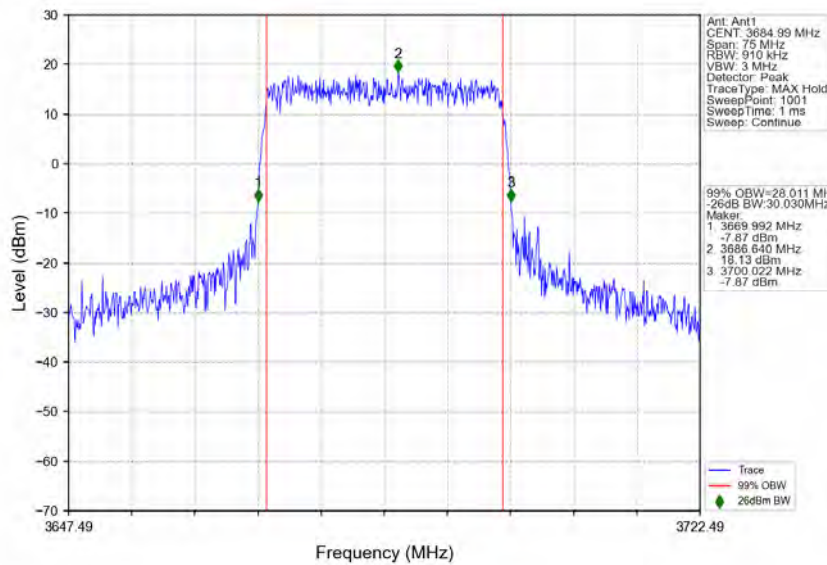
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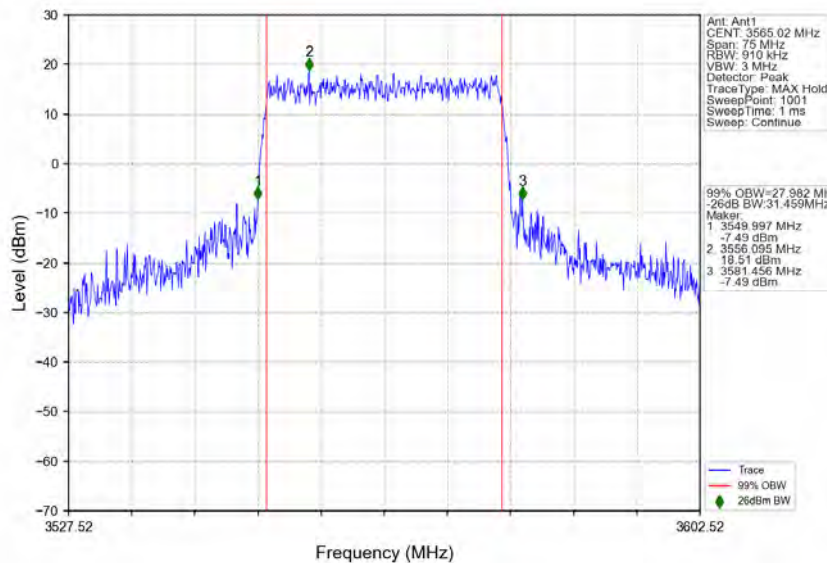
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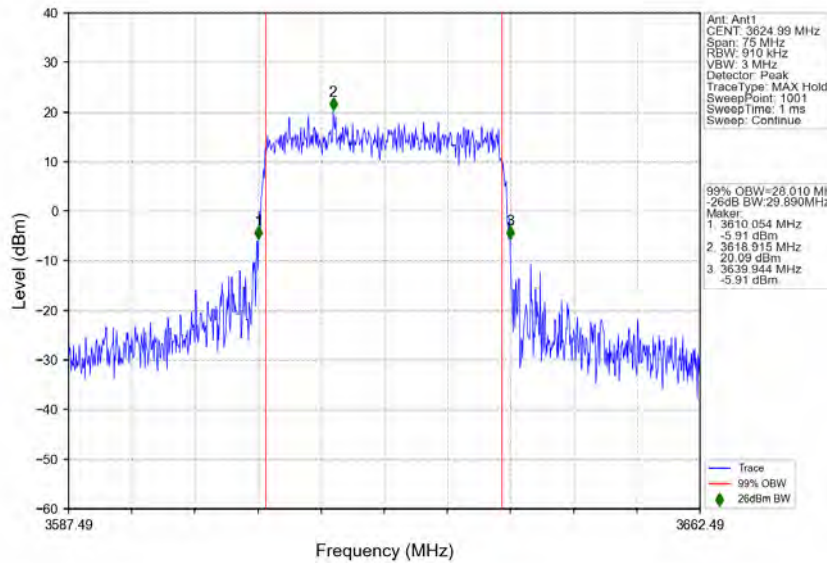
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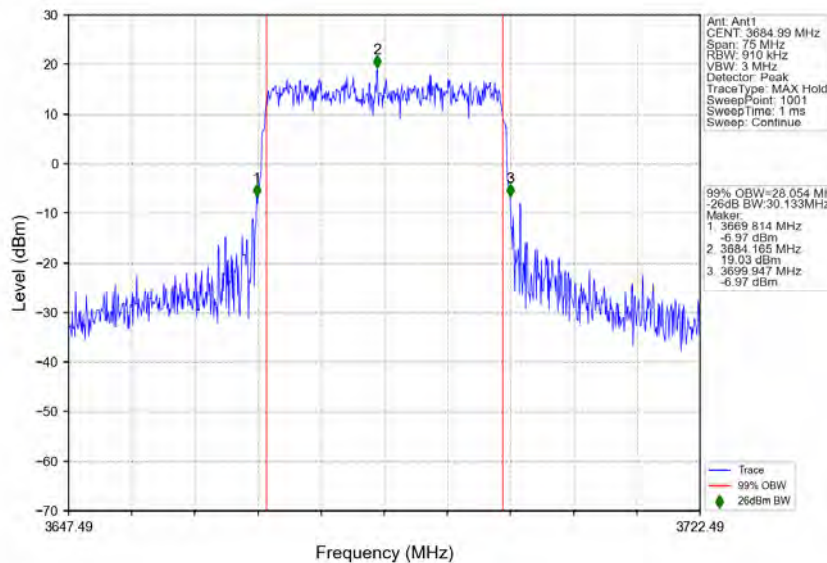
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n78d_30kHz_MIMO_NTNV_30MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_30MHz_CP-OFDM 64 QAM_3684.99MHz_Outer_Full



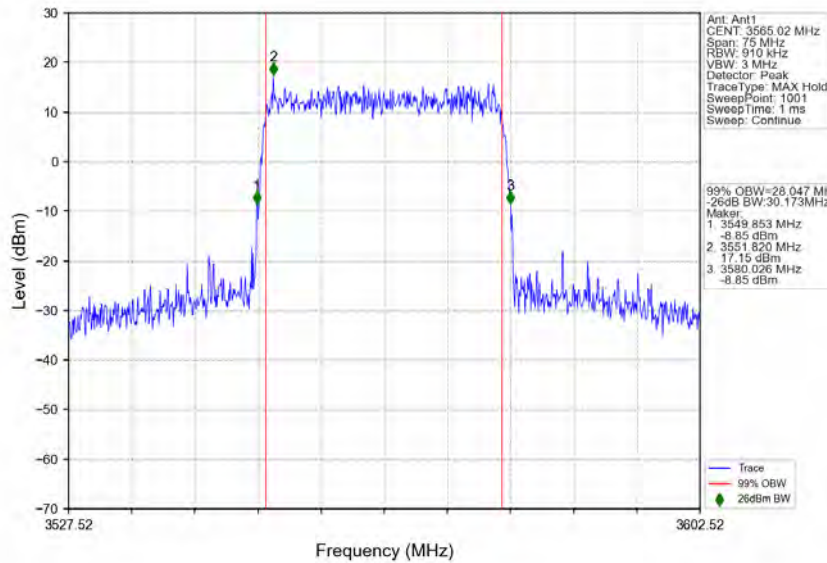
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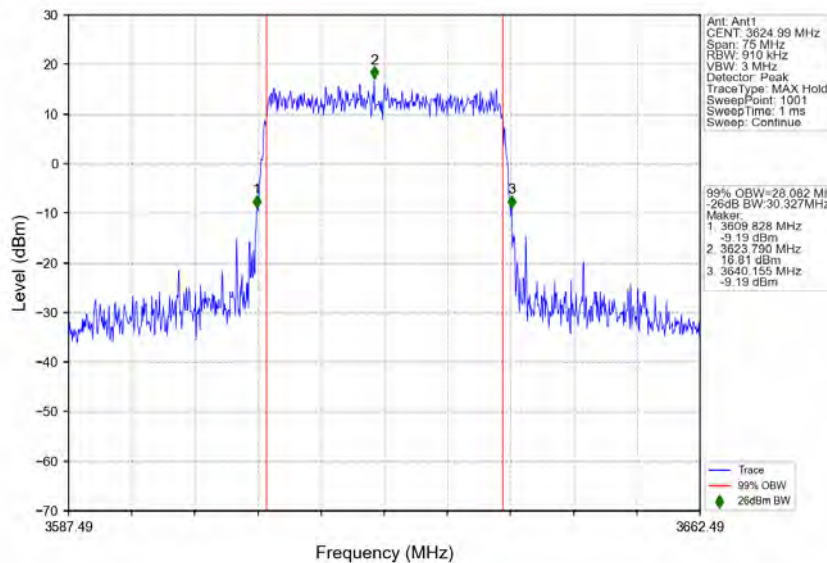
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n78d_30kHz_MIMO_NTNV_30MHz_CP-OFDM 256 QAM_3565.02MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



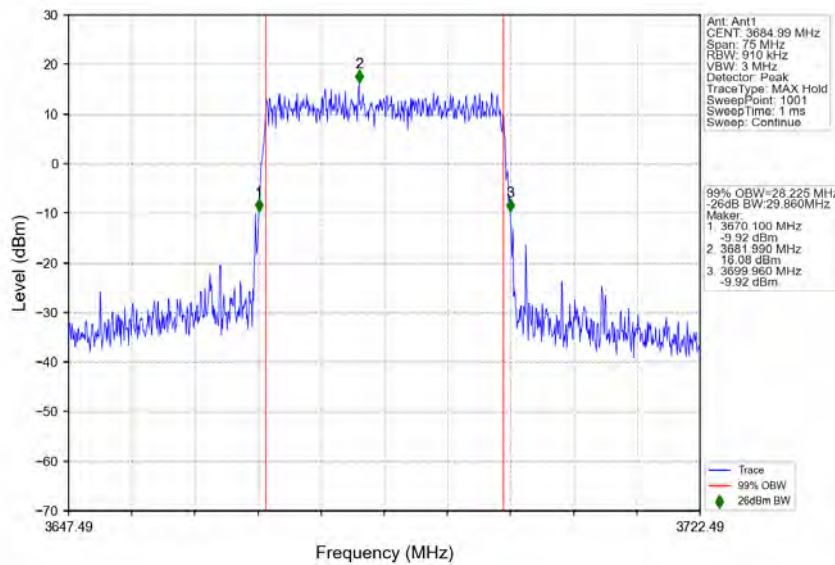
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n78d_30kHz_MIMO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Outer_Full



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4.5 30k_MIMO_40MHz_NTNV

4.5.1 Test Result

5G NR n78d SCS=30kHz MIMO 40MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3570	Outer_Full	38.15	40.72	/	Pass
	3624.99	Outer_Full	37.96	40.71	/	Pass
	3679.98	Outer_Full	38.17	40.50	/	Pass
CP-OFDM 16 QAM	3570	Outer_Full	38.11	40.84	/	Pass
	3624.99	Outer_Full	38.02	40.73	/	Pass
	3679.98	Outer_Full	38.02	40.62	/	Pass
CP-OFDM 64 QAM	3570	Outer_Full	38.06	40.83	/	Pass
	3624.99	Outer_Full	37.96	40.60	/	Pass
	3679.98	Outer_Full	38.25	40.70	/	Pass
CP-OFDM 256 QAM	3570	Outer_Full	37.89	40.69	/	Pass
	3624.99	Outer_Full	38.00	40.27	/	Pass
	3679.98	Outer_Full	38.15	40.63	/	Pass



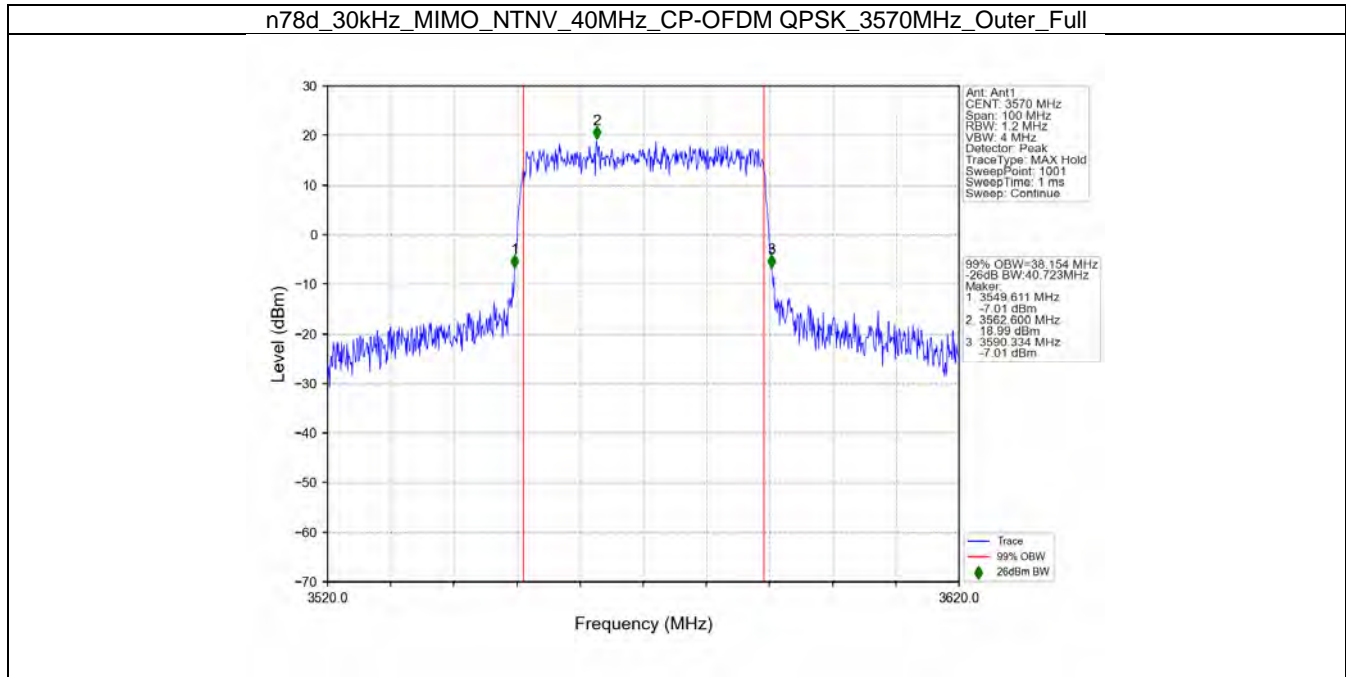
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4.5.2 Test Graph



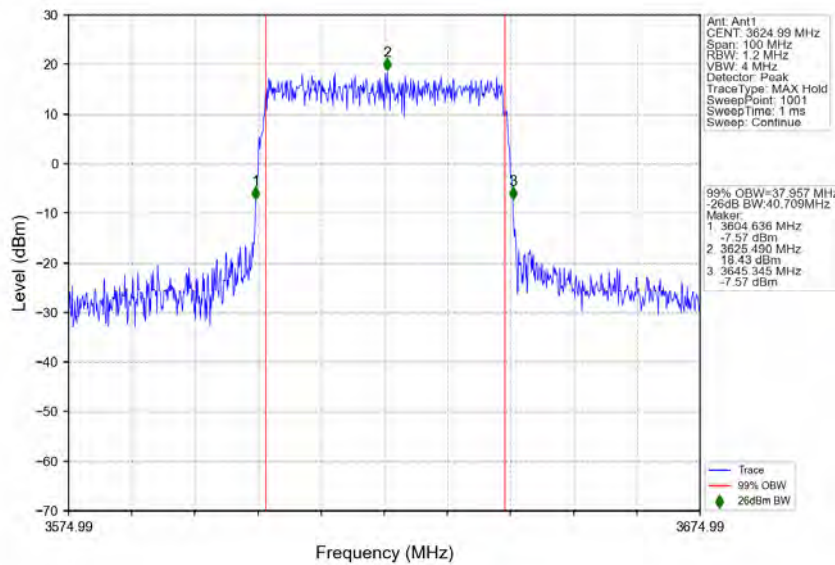
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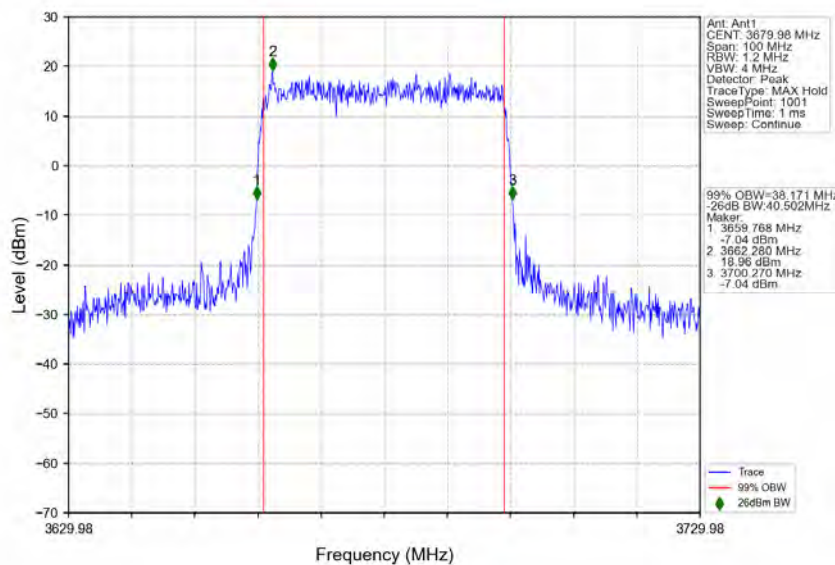
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full



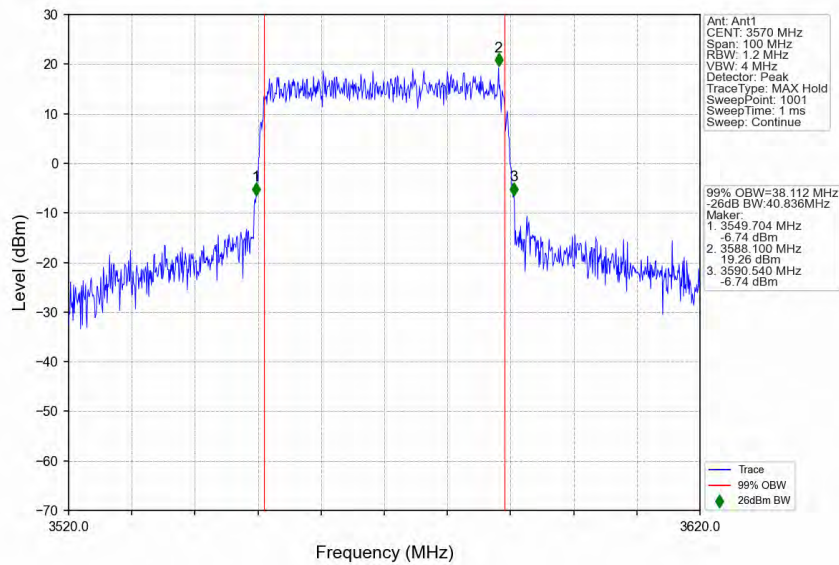
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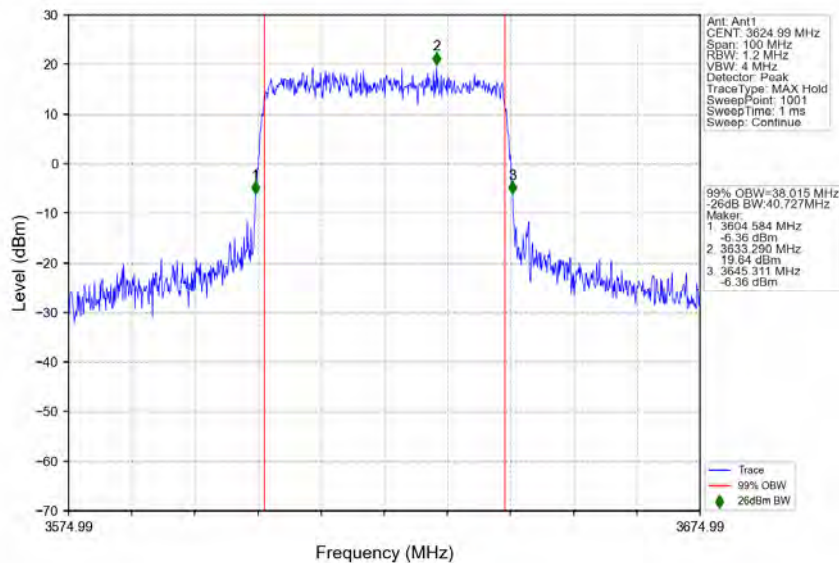
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



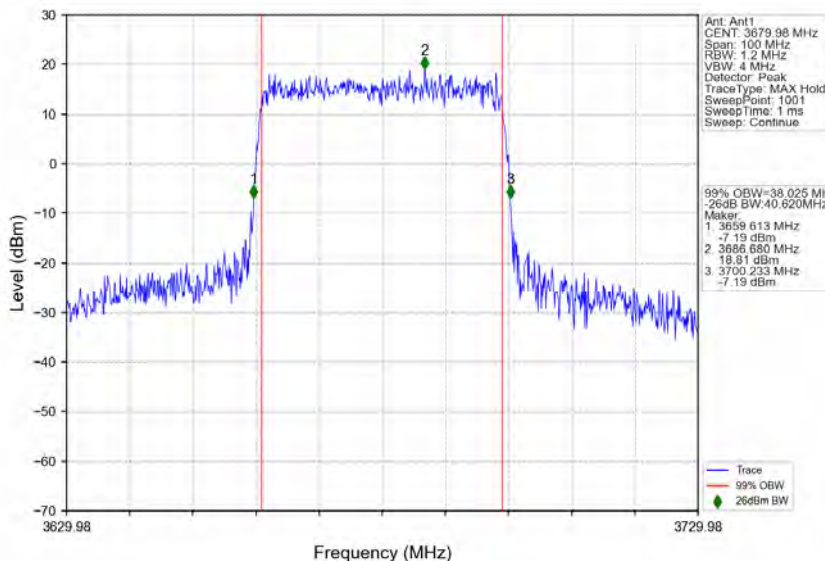
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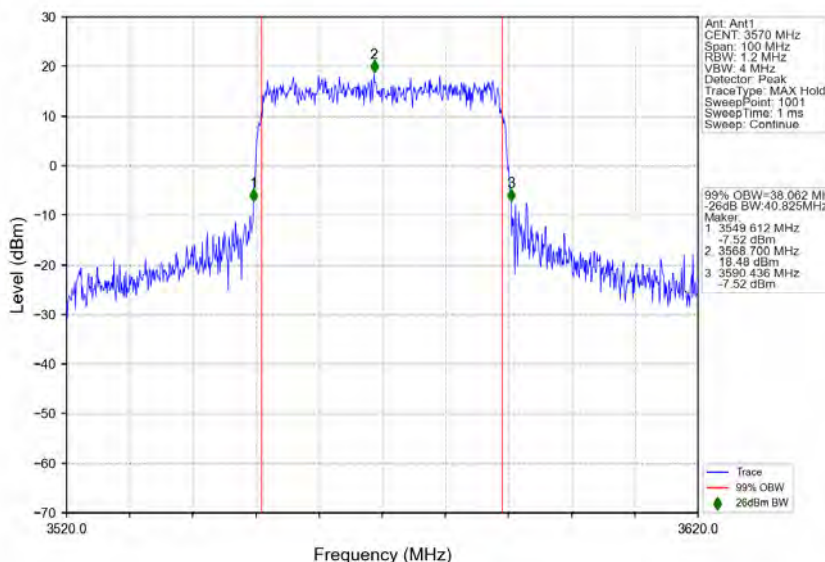
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM_3570MHz_Outer_Full



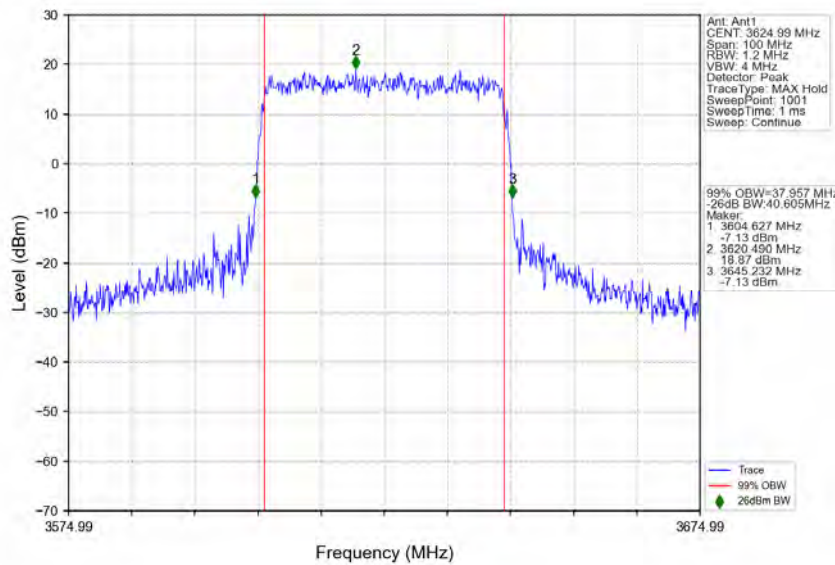
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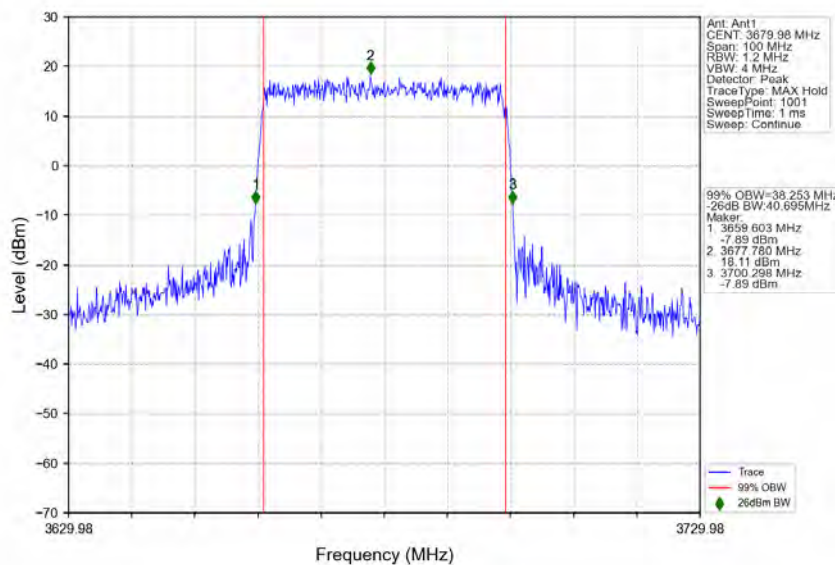
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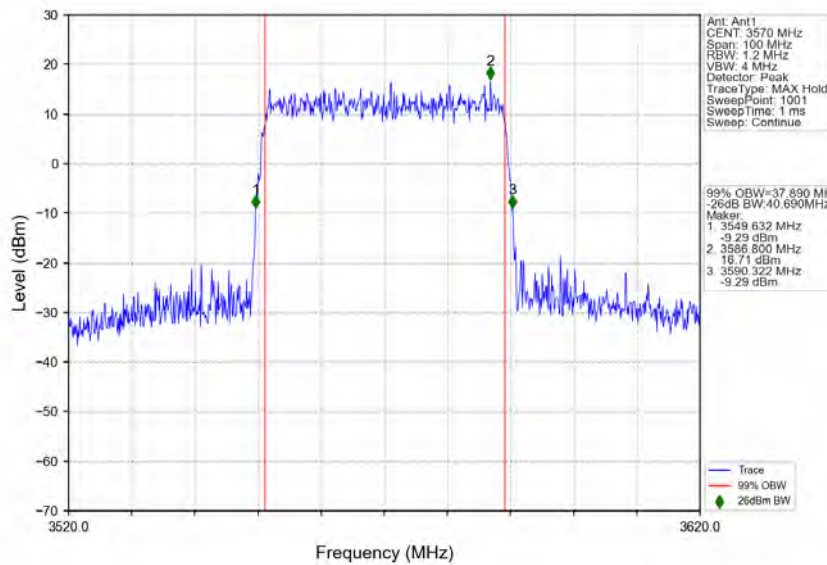
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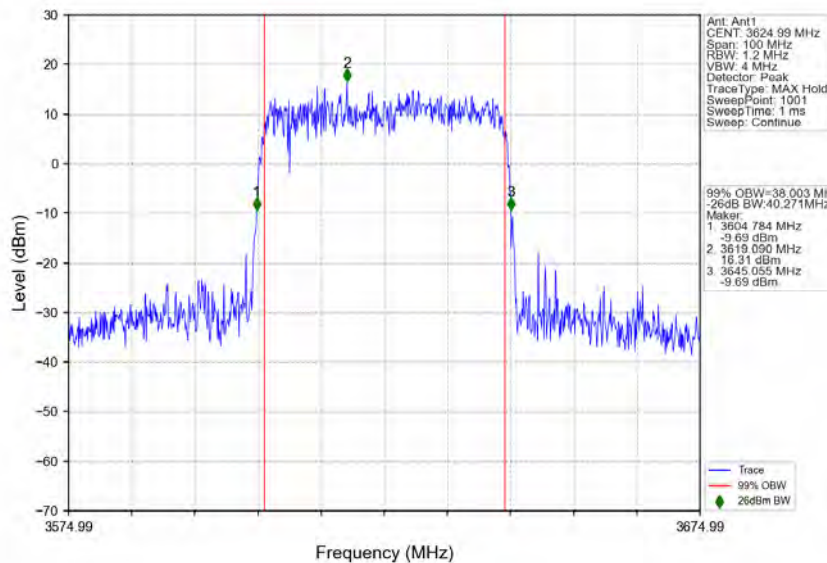
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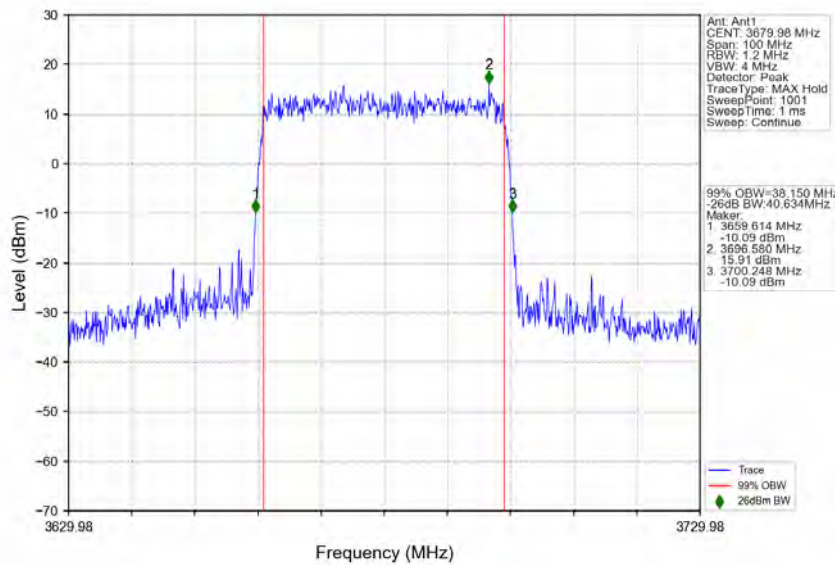
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4.6 30k_MIMO_50MHz_NTNV

4.6.1 Test Result

5G NR n78d SCS=30kHz MIMO 50MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3575.01	Outer_Full	47.66	51.17	/	Pass
	3624.99	Outer_Full	47.93	51.00	/	Pass
	3675	Outer_Full	47.58	50.86	/	Pass
CP-OFDM 16 QAM	3575.01	Outer_Full	47.77	50.91	/	Pass
	3624.99	Outer_Full	47.83	50.99	/	Pass
	3675	Outer_Full	47.91	51.08	/	Pass
CP-OFDM 64 QAM	3575.01	Outer_Full	47.83	51.59	/	Pass
	3624.99	Outer_Full	47.59	50.69	/	Pass
	3675	Outer_Full	47.84	51.35	/	Pass
CP-OFDM 256 QAM	3575.01	Outer_Full	47.46	50.68	/	Pass
	3624.99	Outer_Full	47.87	50.93	/	Pass
	3675	Outer_Full	47.64	50.84	/	Pass



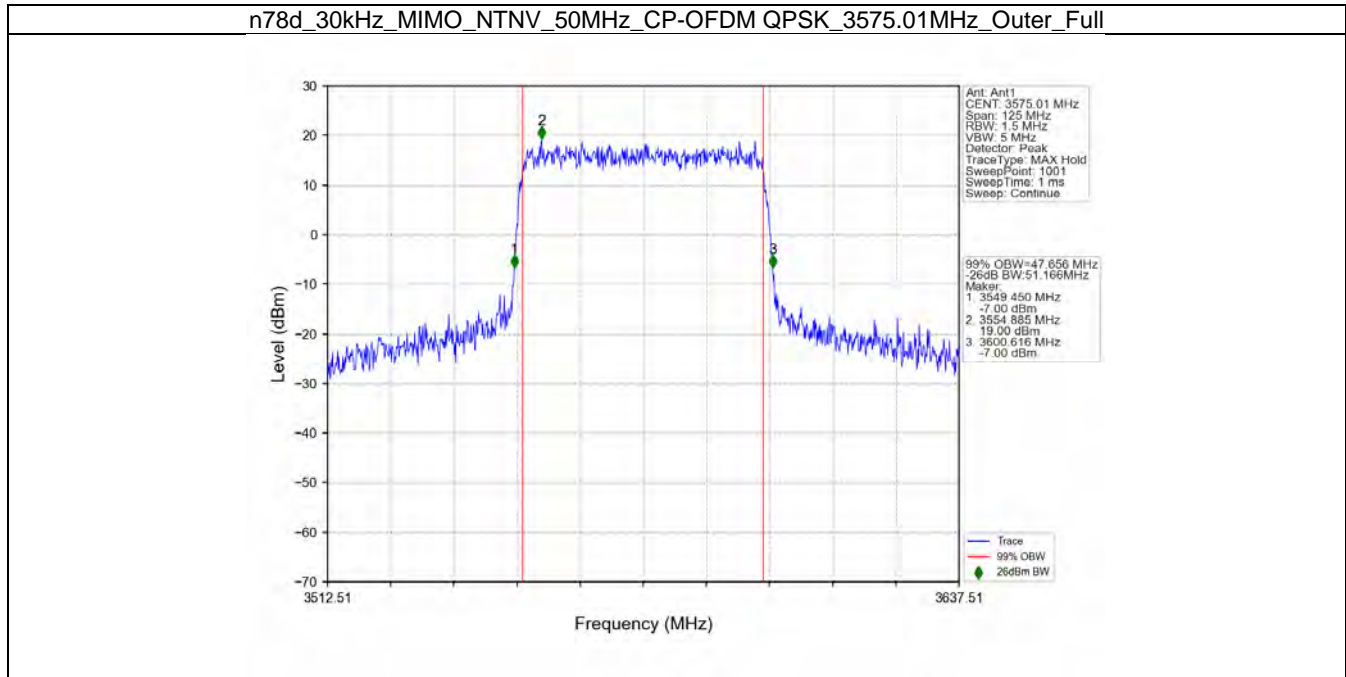
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4.6.2 Test Graph



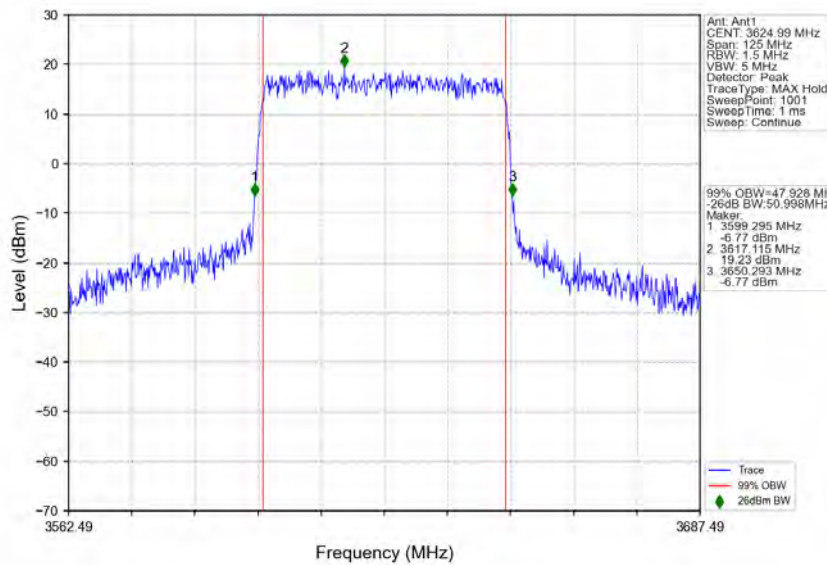
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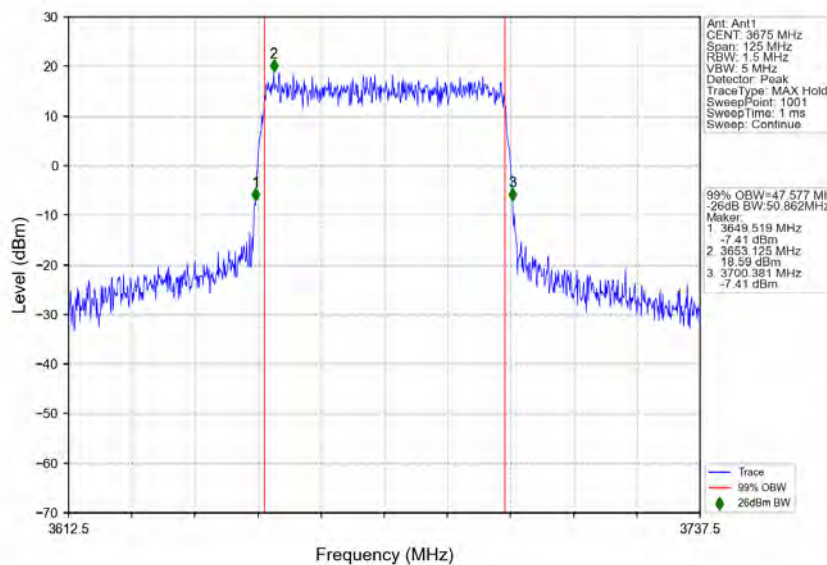
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM_QPSK_3675MHz_Outer_Full



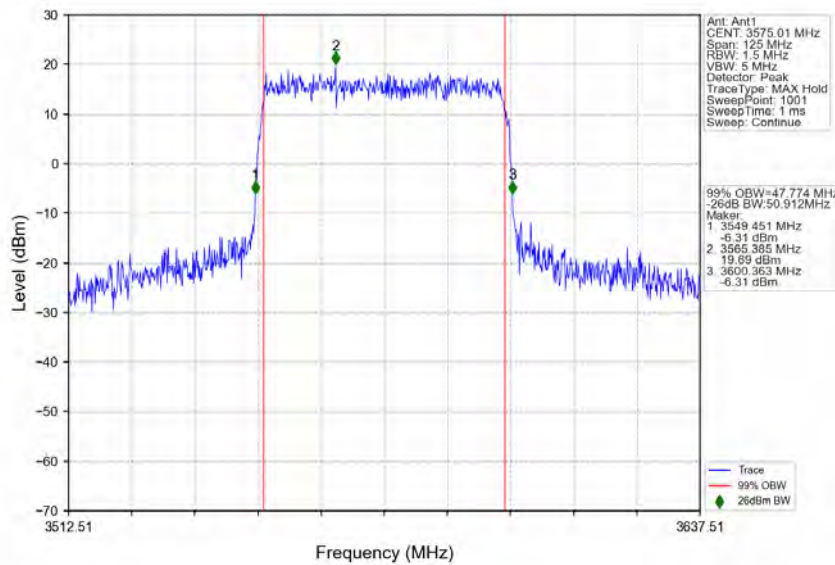
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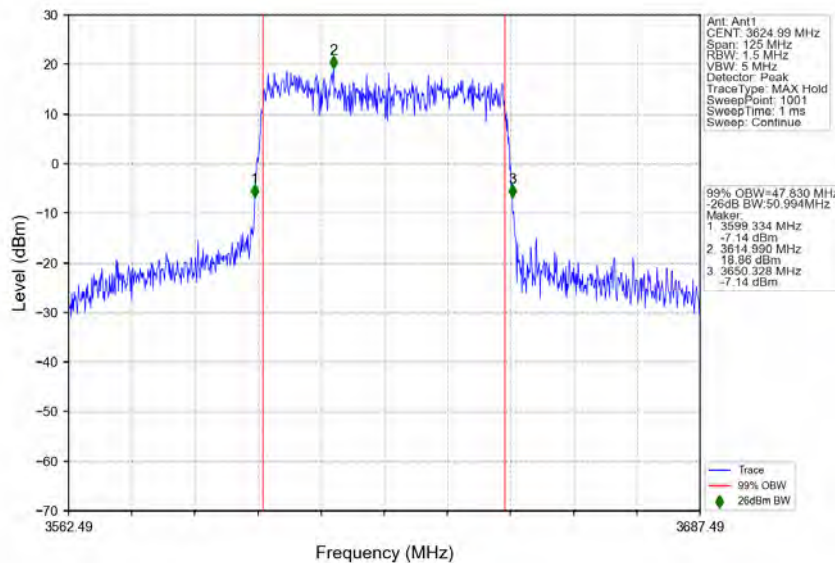
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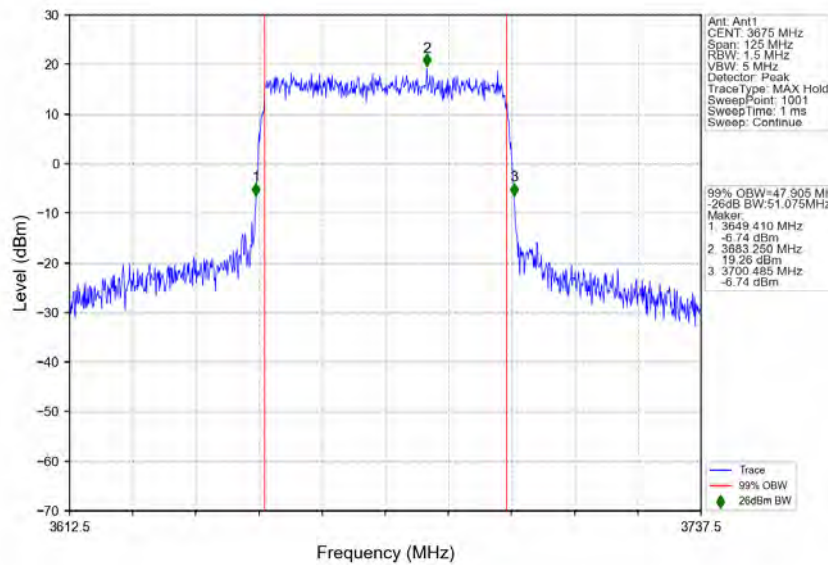
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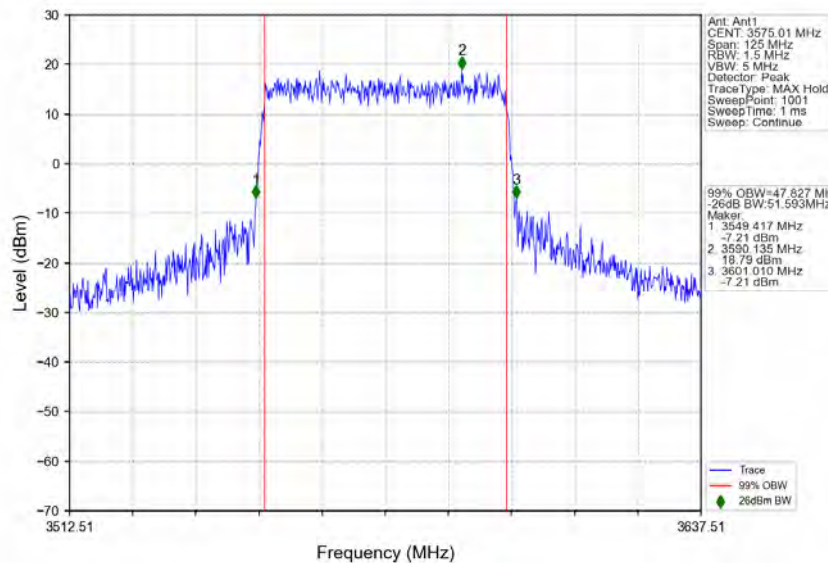
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 64 QAM_3575.01MHz_Outer_Full



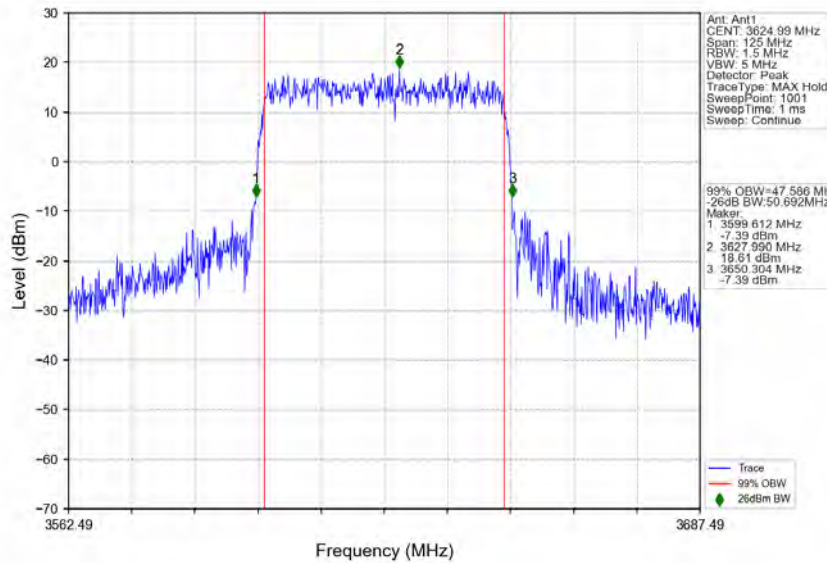
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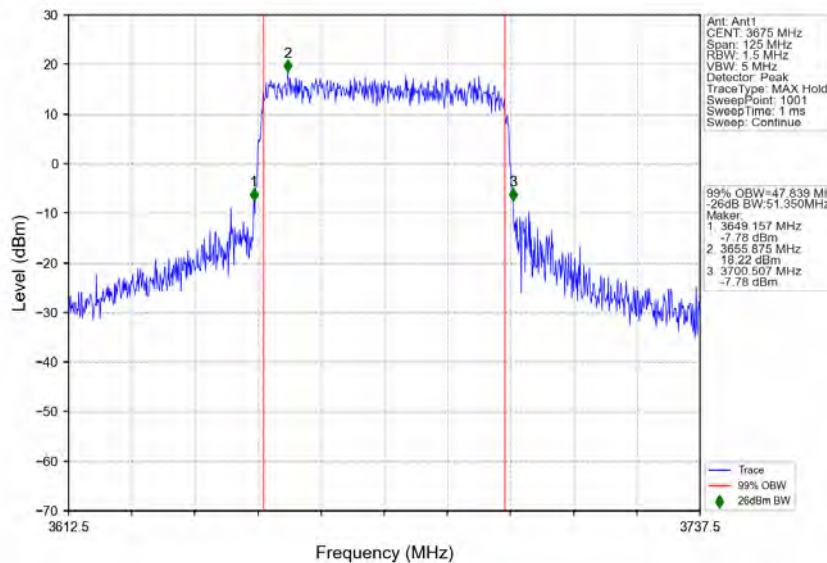
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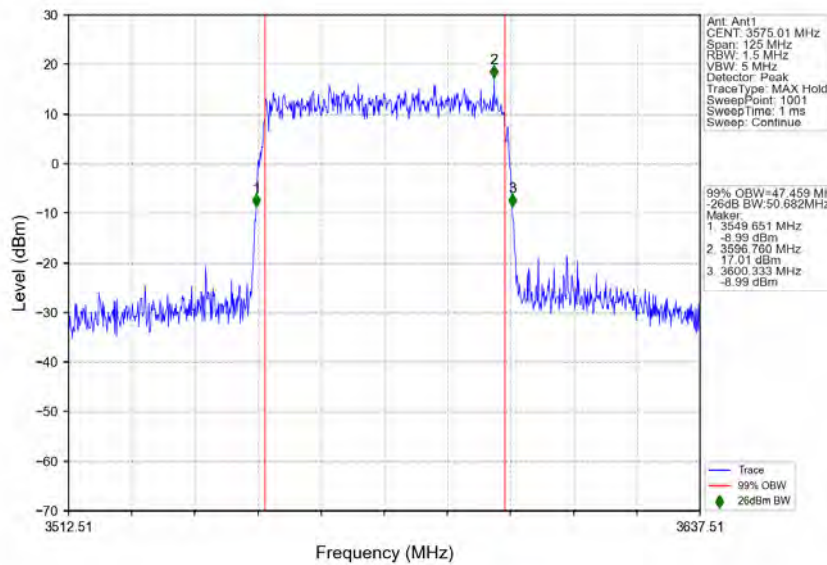
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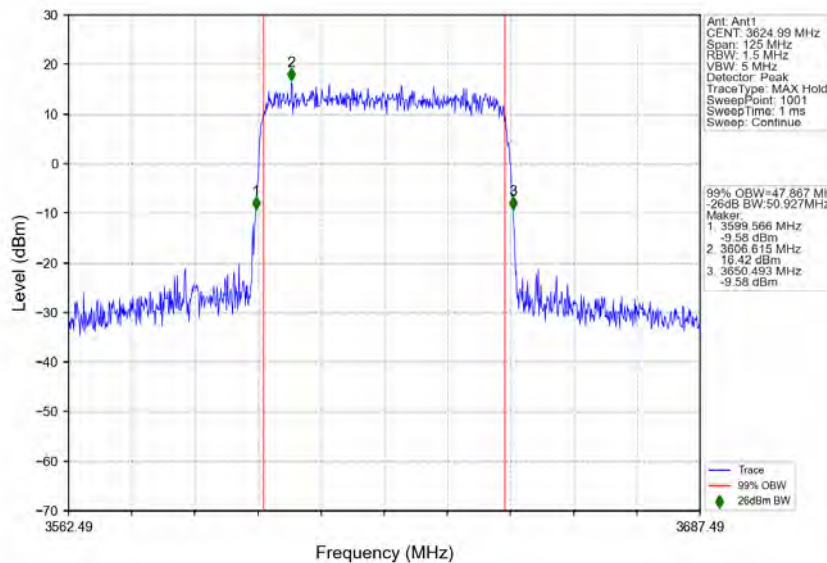
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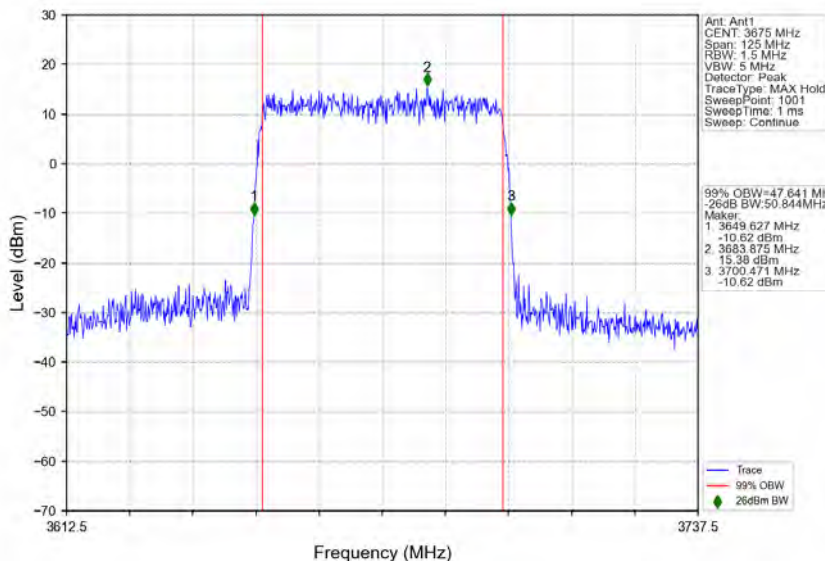
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4.7 30k_MIMO_60MHz_NTNV

4.7.1 Test Result

5G NR n78d SCS=30kHz MIMO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3580.02	Outer_Full	58.26	62.06	/	Pass
	3624.99	Outer_Full	57.91	62.11	/	Pass
	3669.99	Outer_Full	57.96	62.00	/	Pass
CP-OFDM 16 QAM	3580.02	Outer_Full	58.19	62.16	/	Pass
	3624.99	Outer_Full	58.12	61.77	/	Pass
	3669.99	Outer_Full	58.10	62.04	/	Pass
CP-OFDM 64 QAM	3580.02	Outer_Full	58.11	62.16	/	Pass
	3624.99	Outer_Full	58.20	62.14	/	Pass
	3669.99	Outer_Full	58.24	62.01	/	Pass
CP-OFDM 256 QAM	3580.02	Outer_Full	58.25	61.90	/	Pass
	3624.99	Outer_Full	58.04	61.96	/	Pass
	3669.99	Outer_Full	58.36	62.33	/	Pass



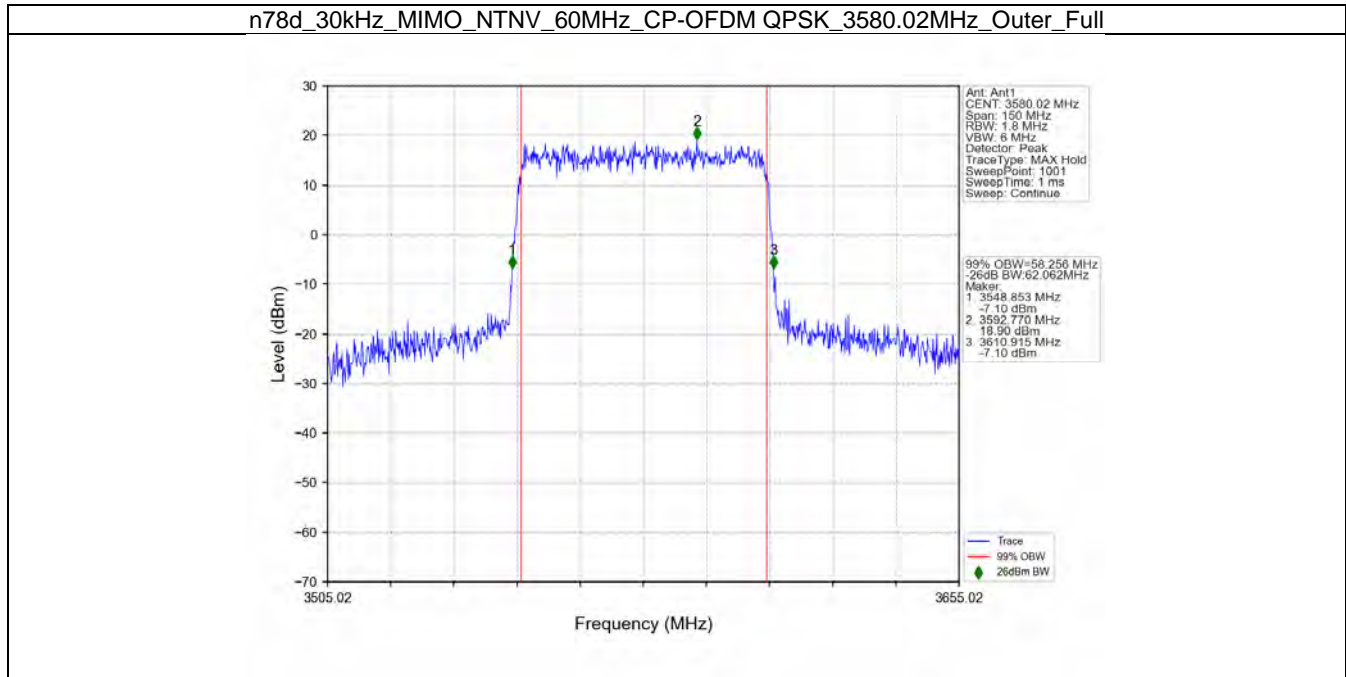
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4.7.2 Test Graph

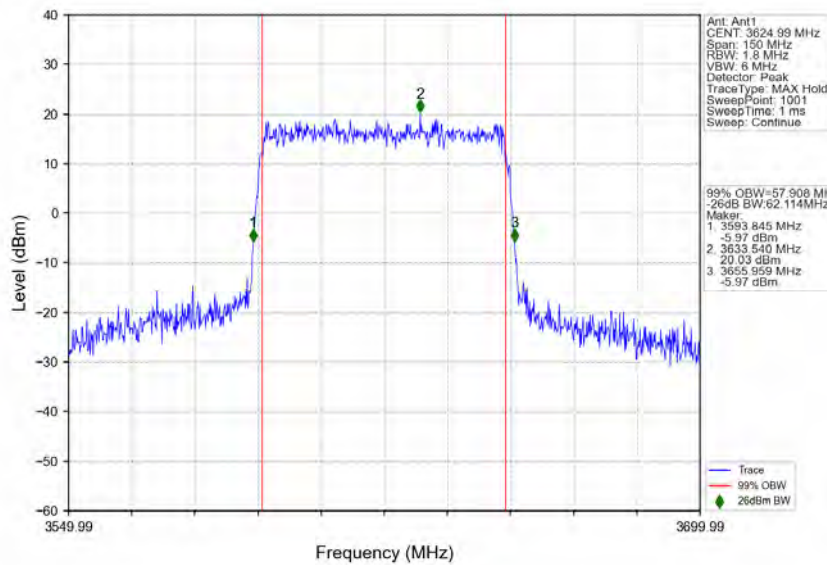


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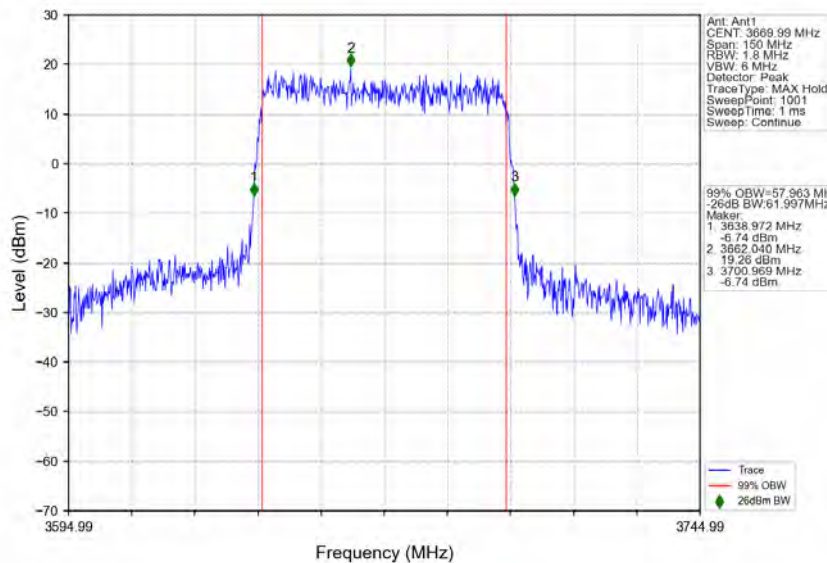
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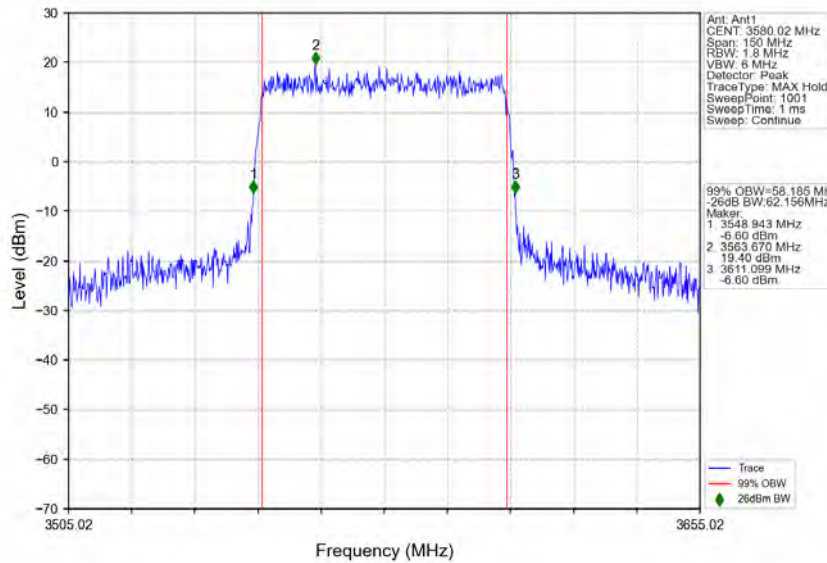
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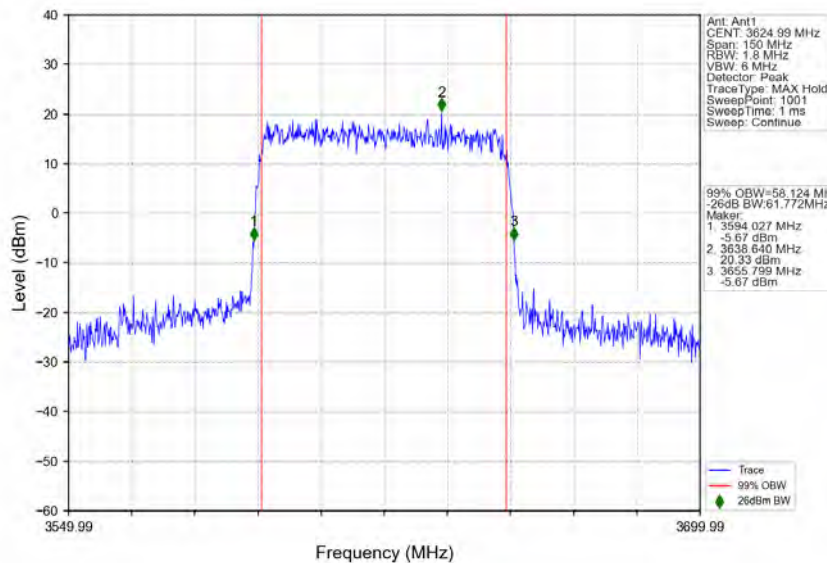
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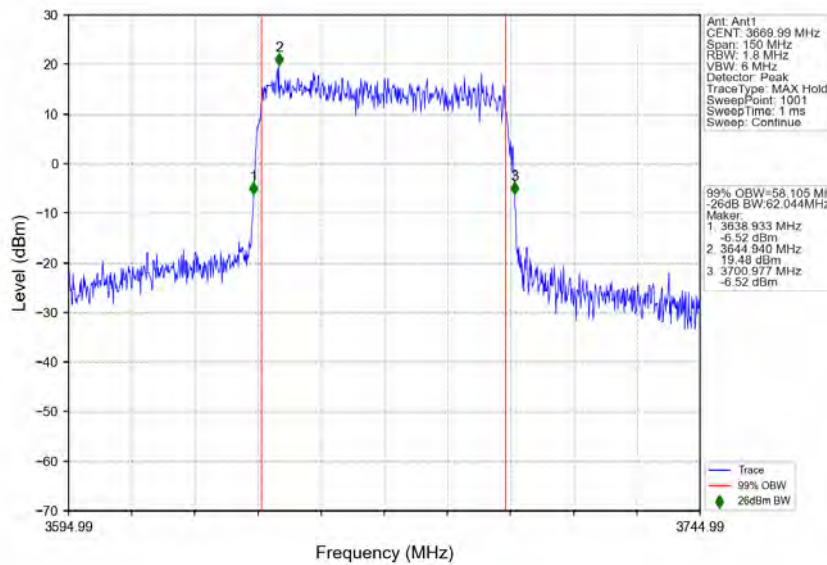
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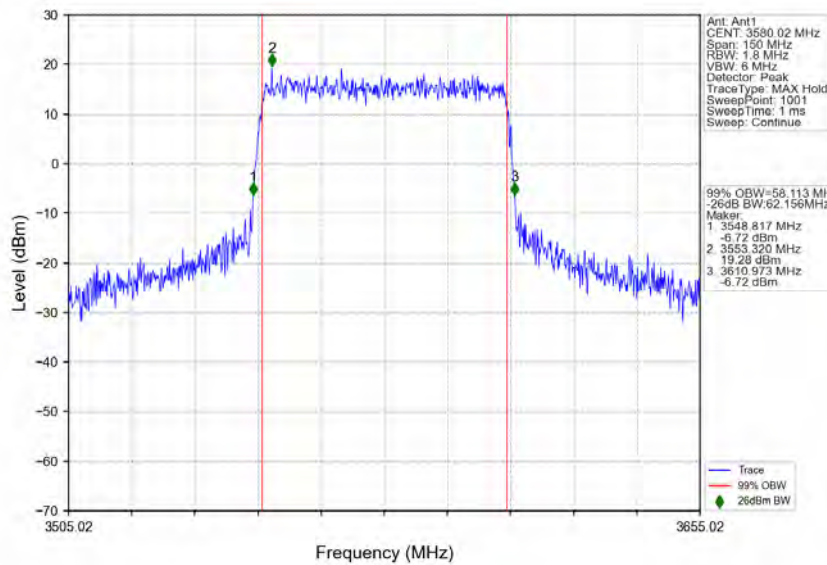
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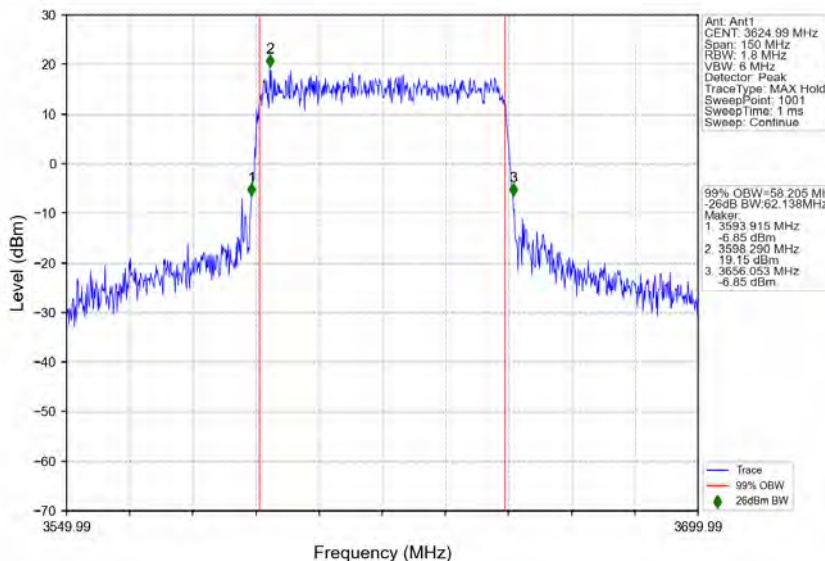
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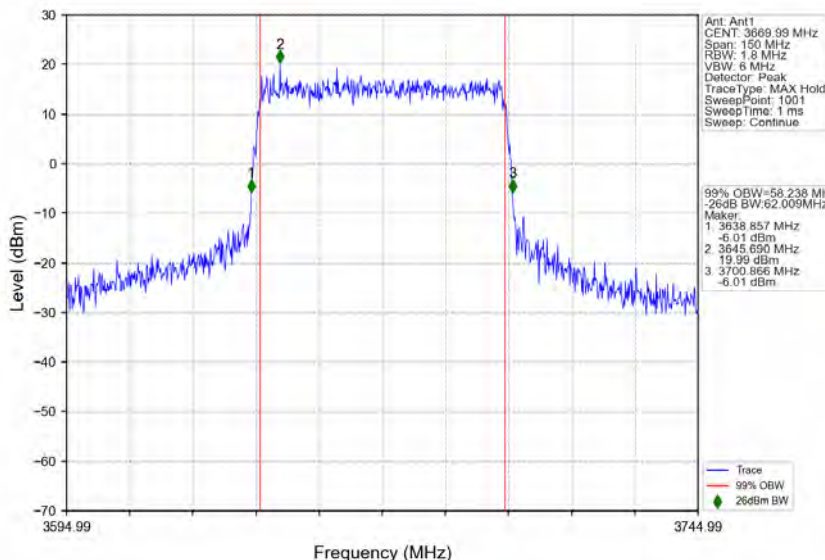
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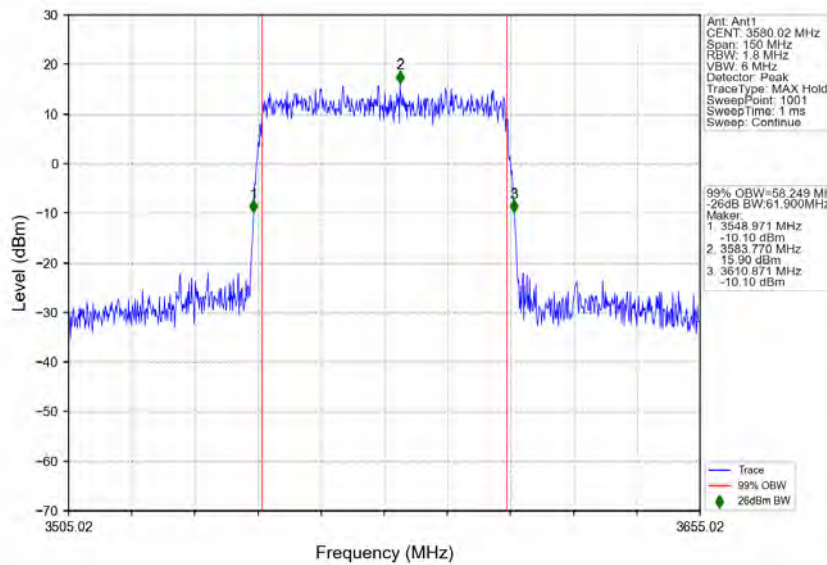
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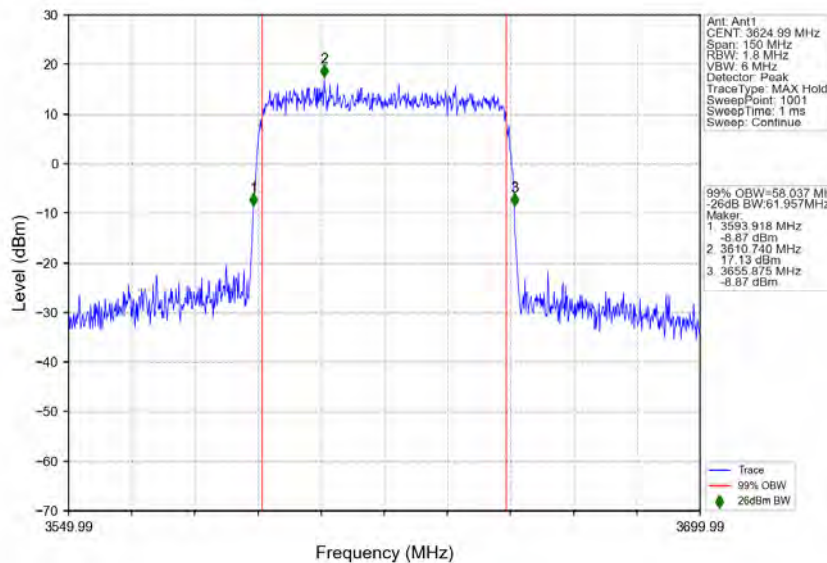
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n78d_30kHz_MIMO_NTNV_60MHz_CP-OFDM 256 QAM_3580.02MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_60MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



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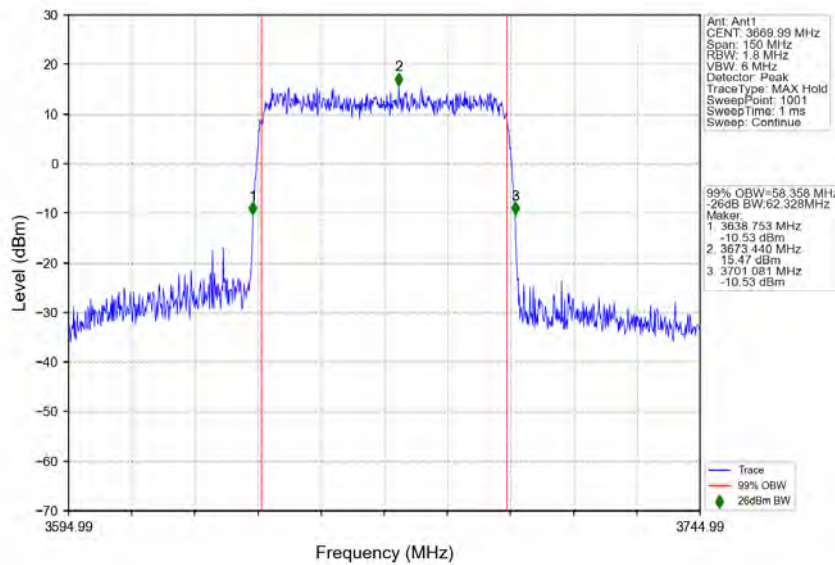
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n78d_30kHz_MIMO_NTNV_60MHz_CP-OFDM 256 QAM_3669.99MHz_Outer_Full



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4.8 30k_MIMO_70MHz_NTNV

4.8.1 Test Result

5G NR n78d SCS=30kHz MIMO 70MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3585	Outer_Full	68.08	72.36	/	Pass
	3624.99	Outer_Full	68.03	72.67	/	Pass
	3664.98	Outer_Full	68.09	72.65	/	Pass
CP-OFDM 16 QAM	3585	Outer_Full	67.88	72.67	/	Pass
	3624.99	Outer_Full	67.83	72.88	/	Pass
	3664.98	Outer_Full	68.44	76.47	/	Pass
CP-OFDM 64 QAM	3585	Outer_Full	67.99	73.61	/	Pass
	3624.99	Outer_Full	67.92	78.31	/	Pass
	3664.98	Outer_Full	68.10	73.79	/	Pass
CP-OFDM 256 QAM	3585	Outer_Full	68.19	72.72	/	Pass
	3624.99	Outer_Full	67.89	72.79	/	Pass
	3664.98	Outer_Full	67.82	72.50	/	Pass



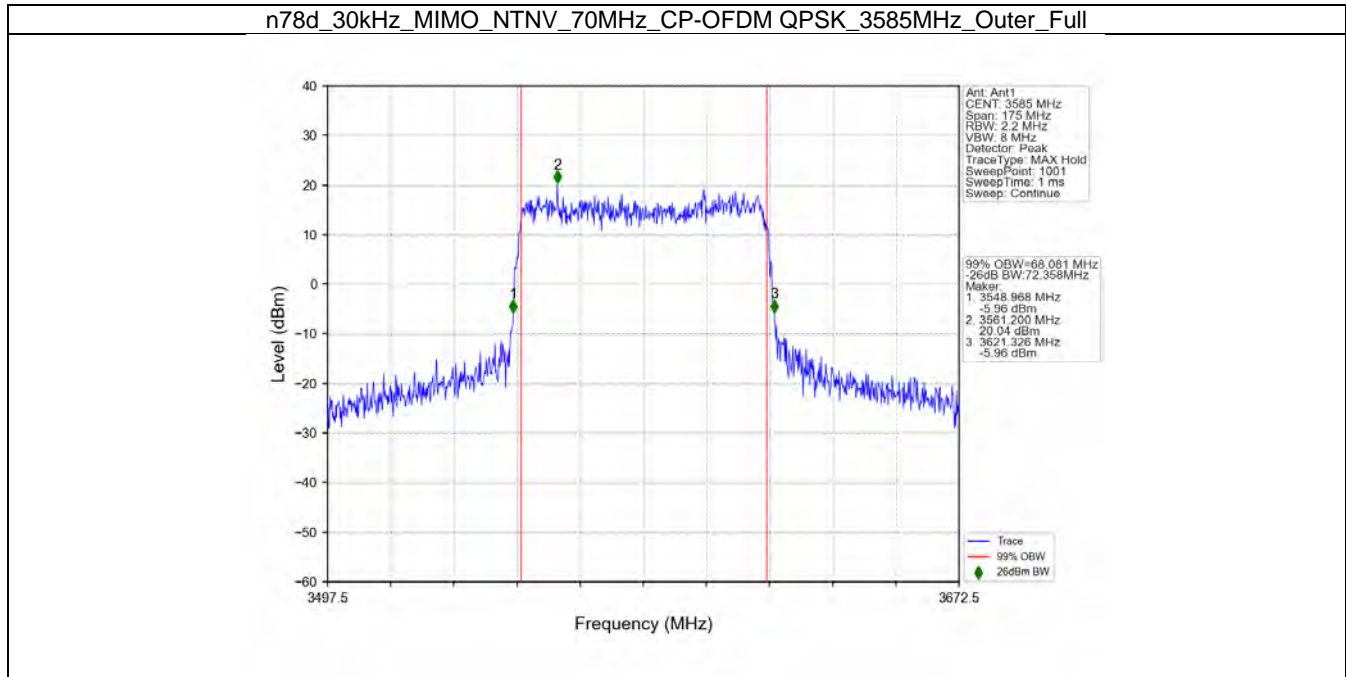
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4.8.2 Test Graph



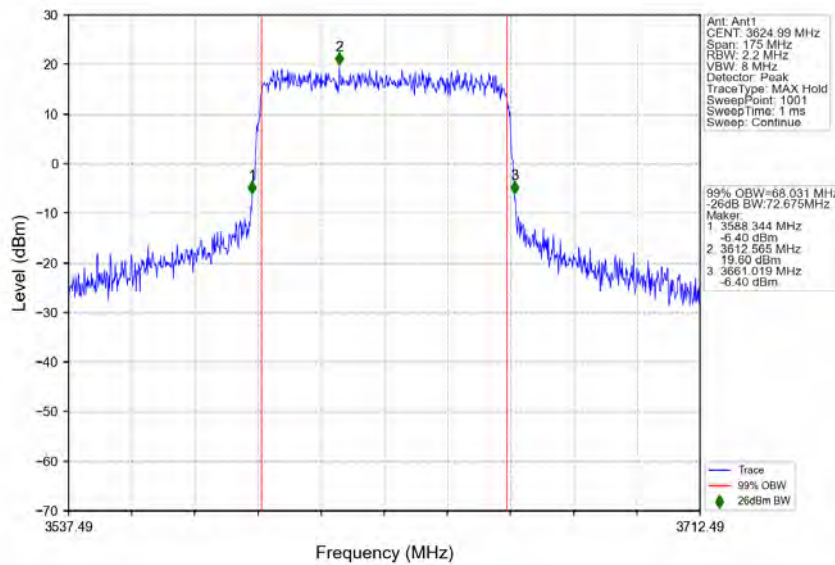
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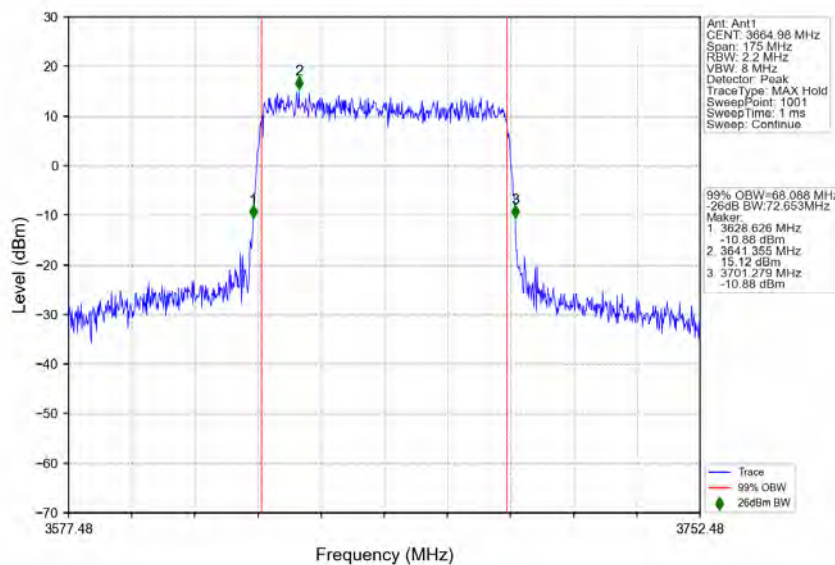
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n78d_30kHz_MIMO_NTNV_70MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_70MHz_CP-OFDM QPSK_3664.98MHz_Outer_Full



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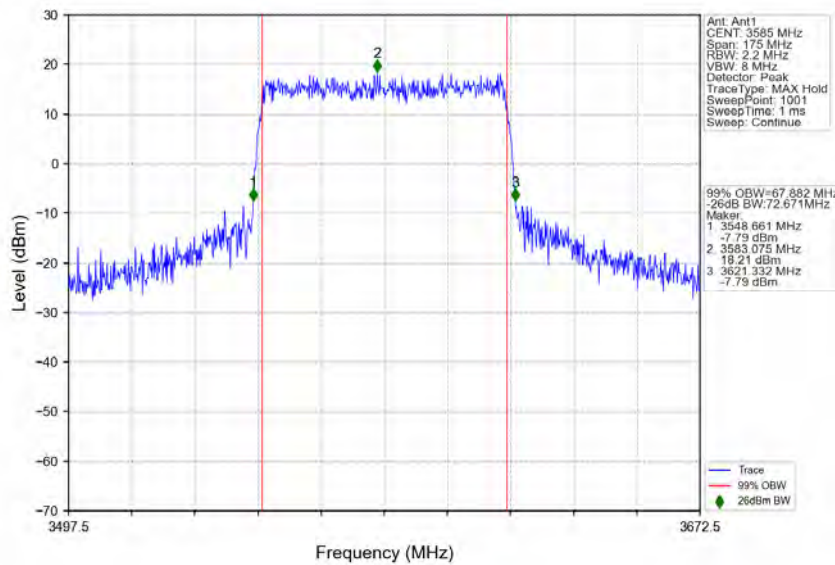
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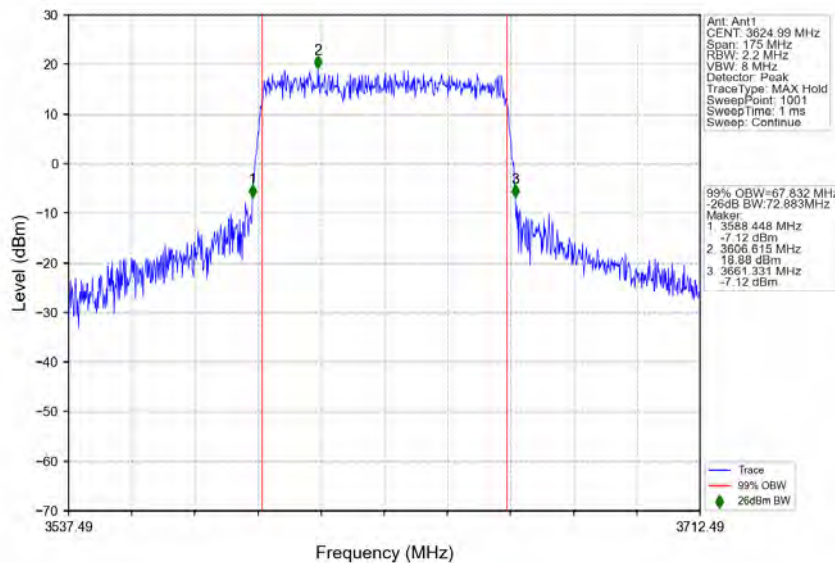
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n78d_30kHz_MIMO_NTNV_70MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



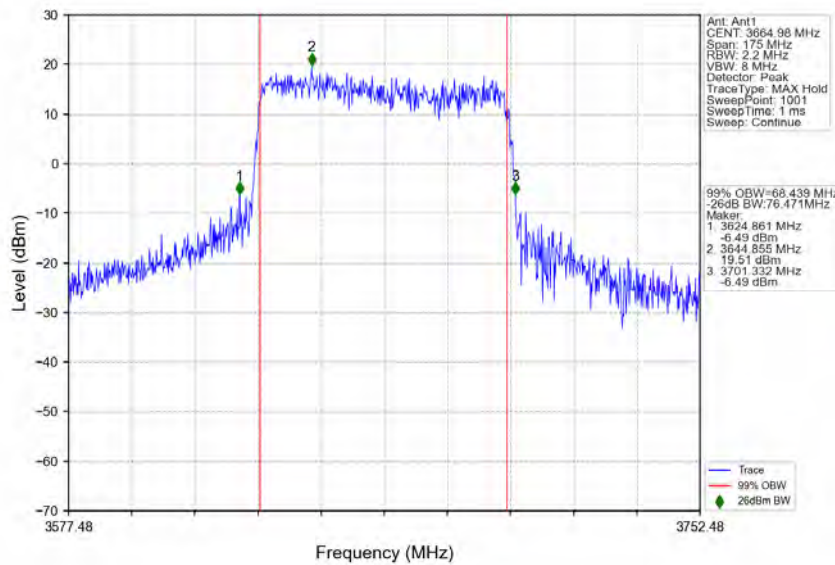
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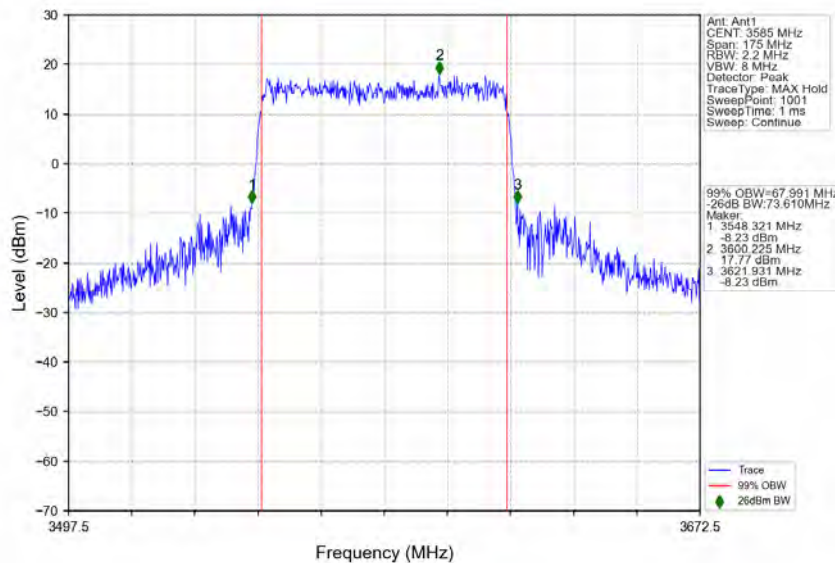
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n78d_30kHz_MIMO_NTNV_70MHz_CP-OFDM 64 QAM_3585MHz_Outer_Full



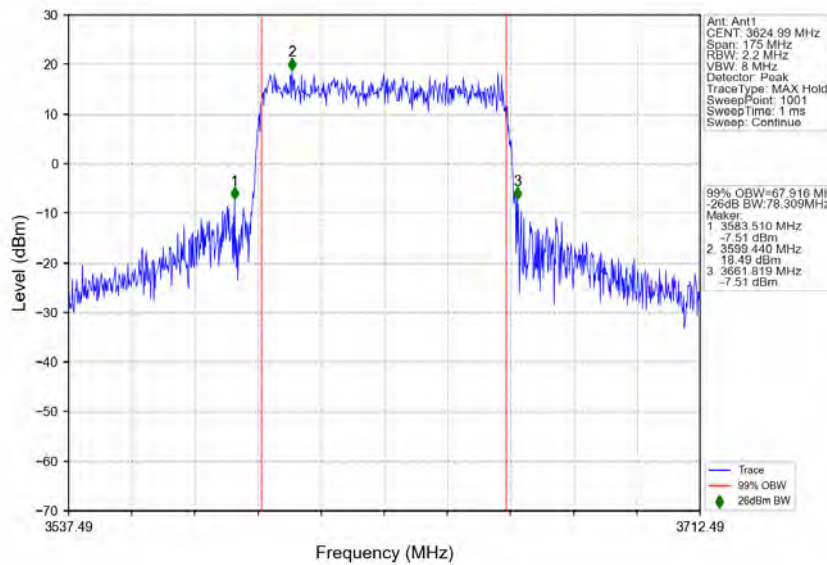
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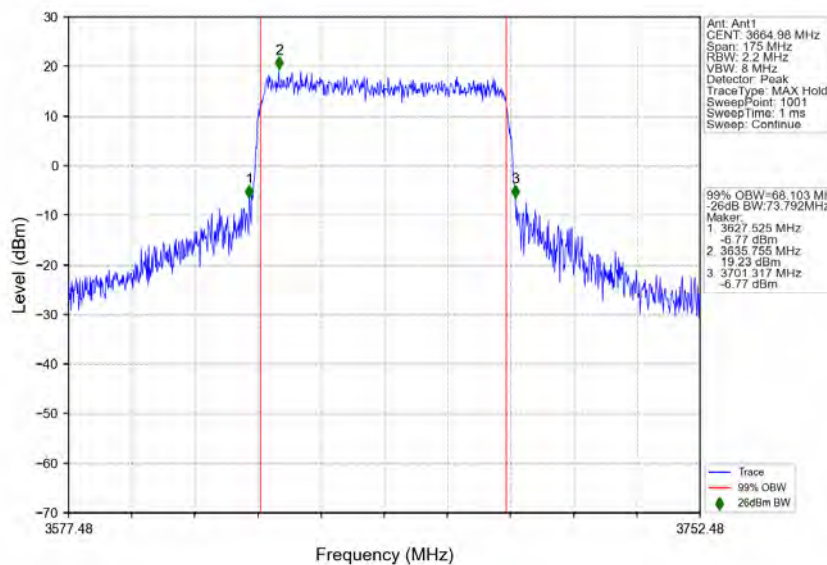
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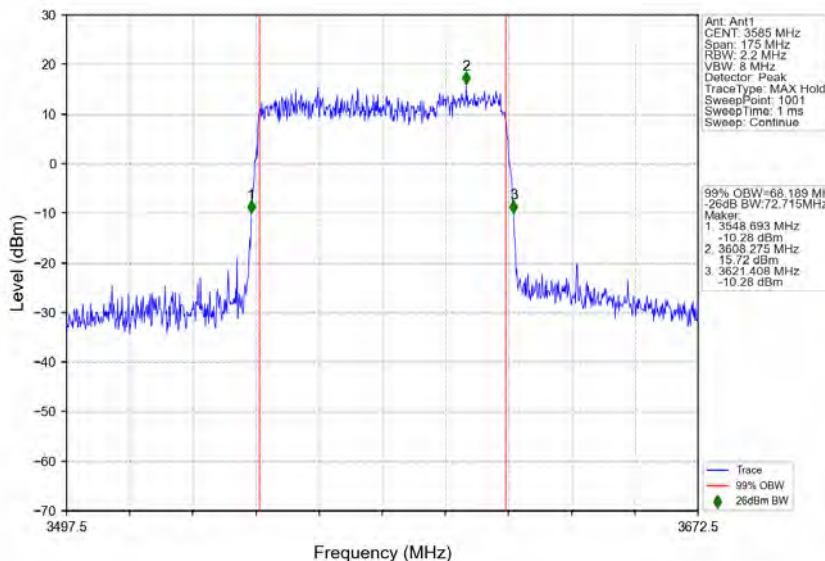
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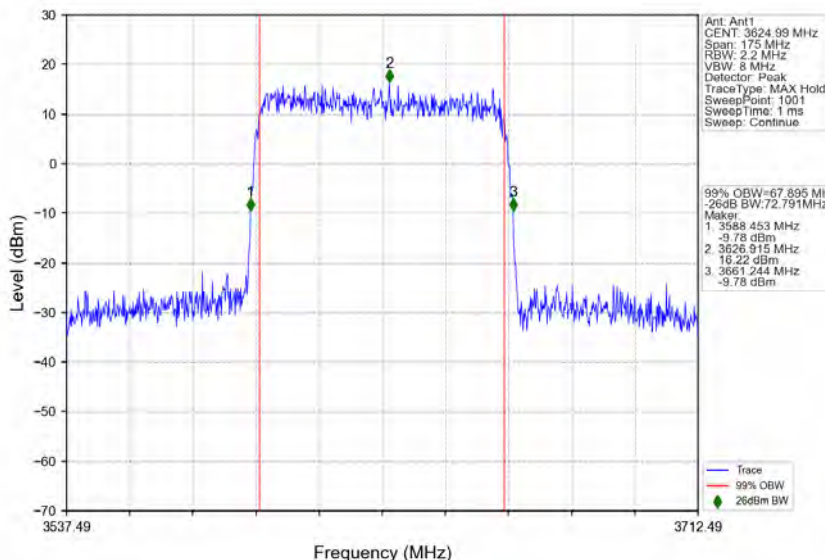
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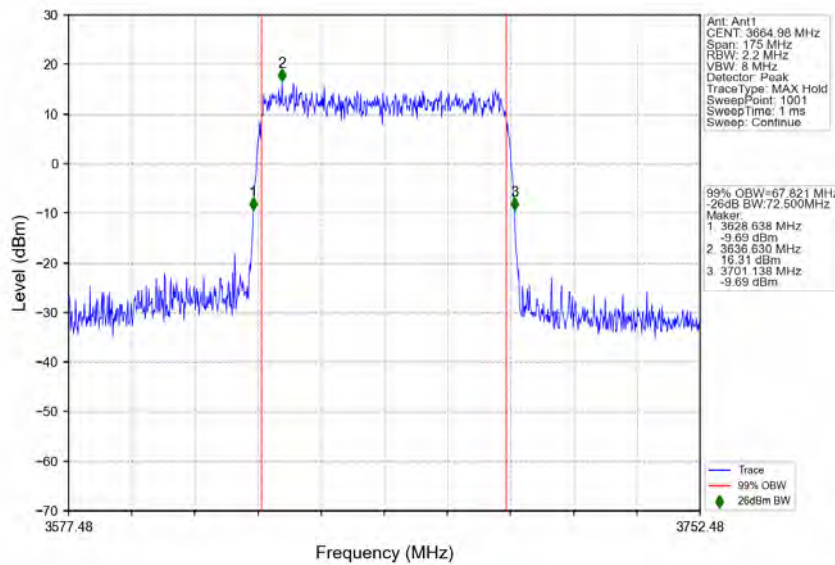
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4.9 30k_MIMO_80MHz_NTNV

4.9.1 Test Result

5G NR n78d SCS=30kHz MIMO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3590.01	Outer_Full	77.90	82.86	/	Pass
	3624.99	Outer_Full	78.20	83.28	/	Pass
	3660	Outer_Full	78.32	82.71	/	Pass
CP-OFDM 16 QAM	3590.01	Outer_Full	78.26	82.92	/	Pass
	3624.99	Outer_Full	77.71	82.99	/	Pass
	3660	Outer_Full	78.19	83.09	/	Pass
CP-OFDM 64 QAM	3590.01	Outer_Full	77.99	83.04	/	Pass
	3624.99	Outer_Full	78.21	82.84	/	Pass
	3660	Outer_Full	77.96	83.02	/	Pass
CP-OFDM 256 QAM	3590.01	Outer_Full	77.90	83.02	/	Pass
	3624.99	Outer_Full	78.07	82.84	/	Pass
	3660	Outer_Full	78.06	82.93	/	Pass

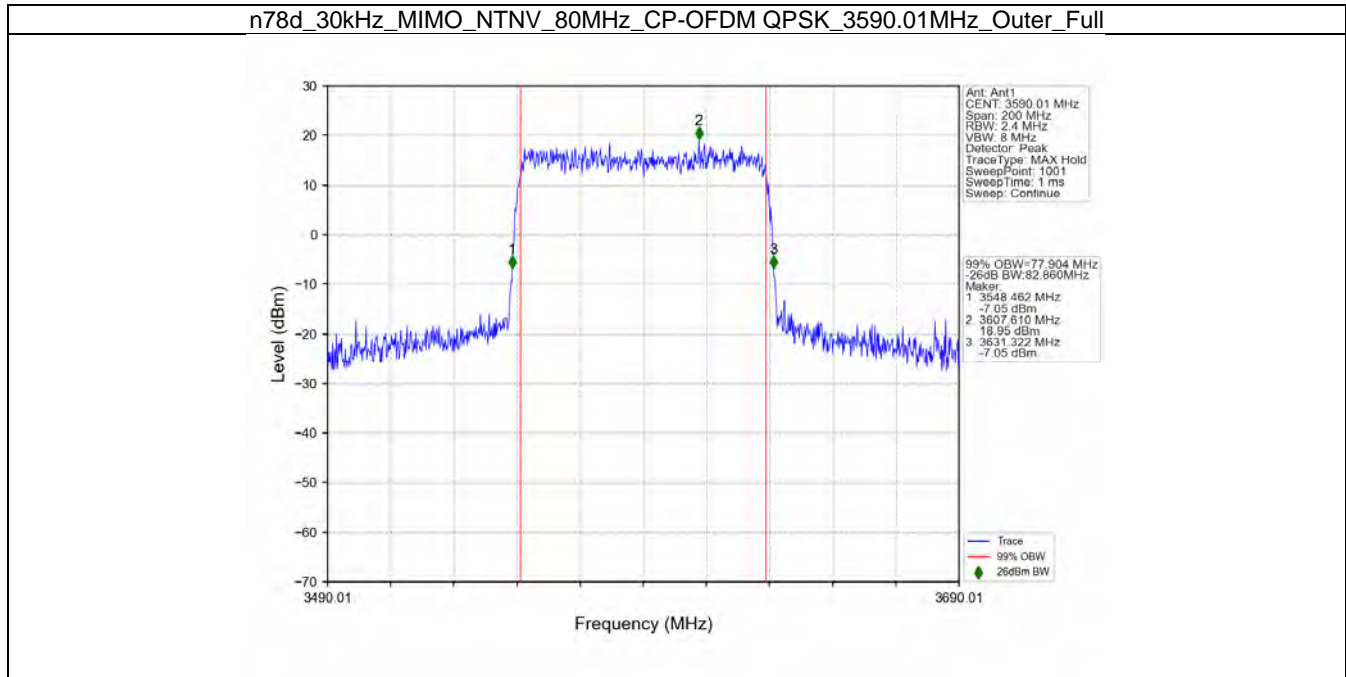


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4.9.2 Test Graph



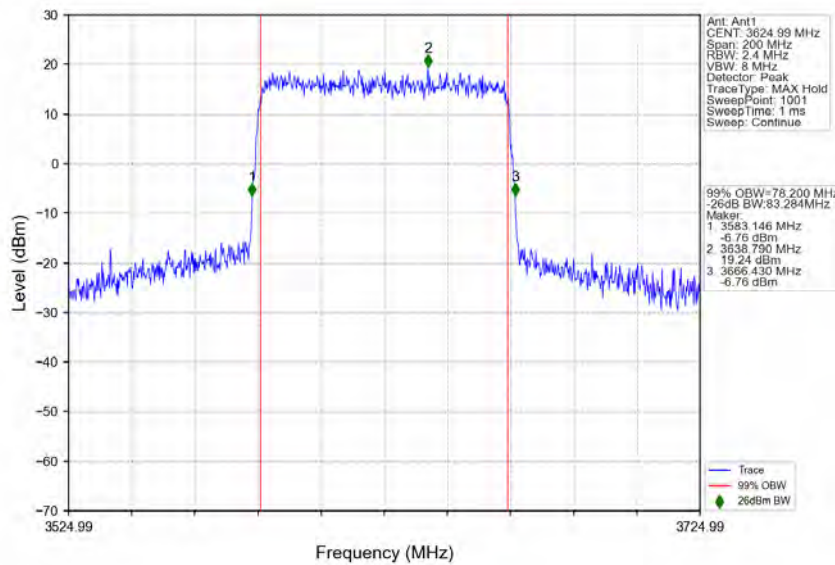
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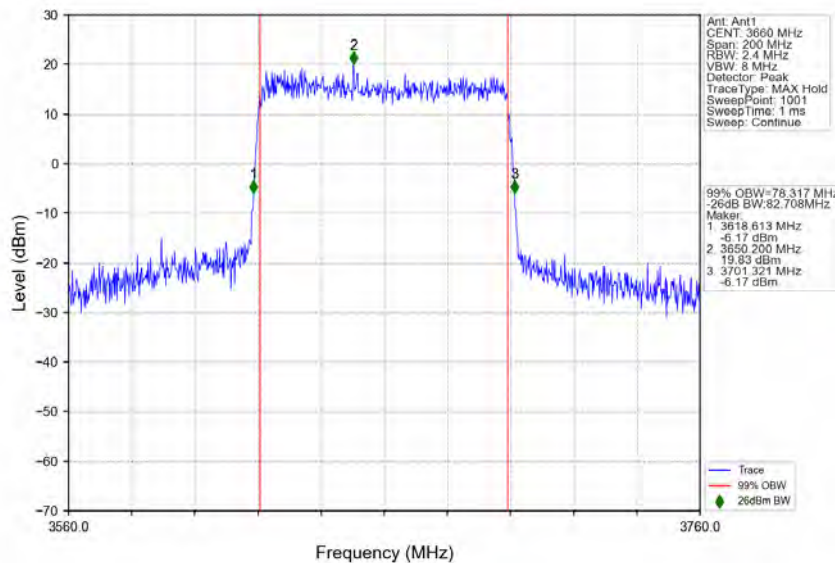
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n78d_30kHz_MIMO_NTNV_80MHz_CP-OFDM QPSK_3660MHz_Outer_Full



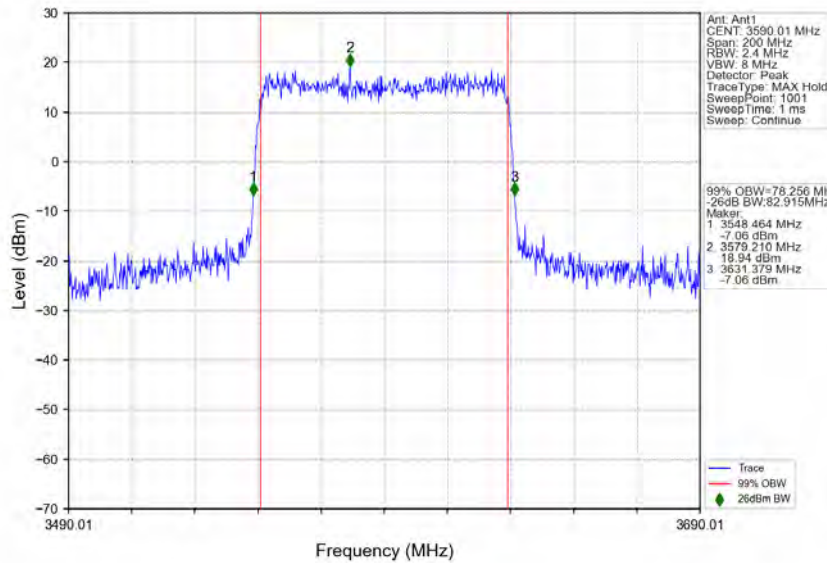
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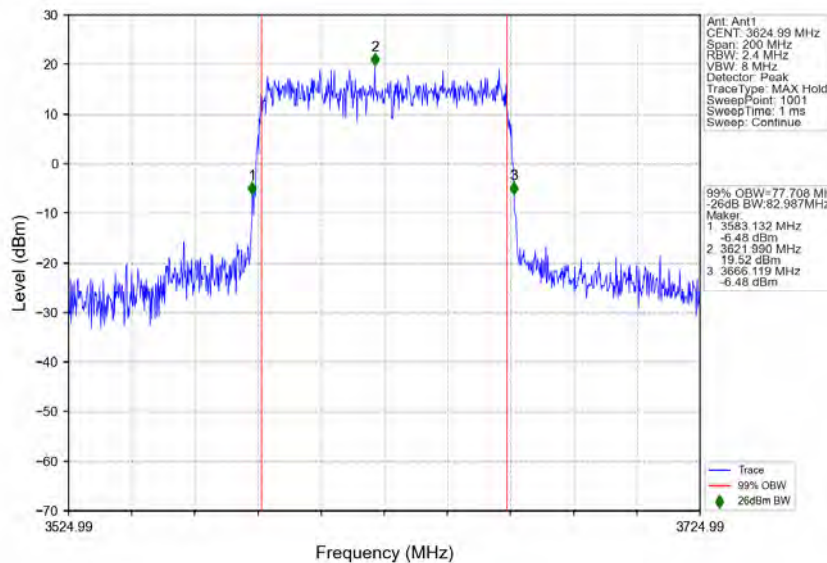
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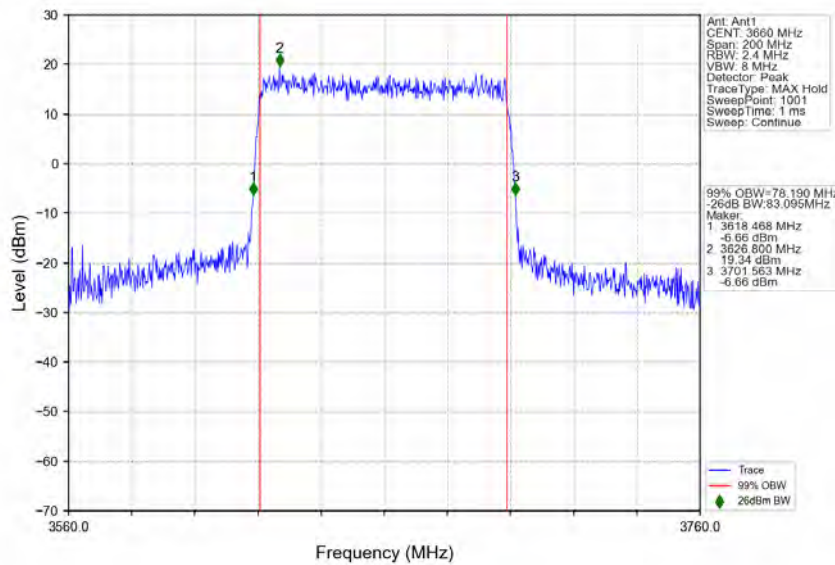
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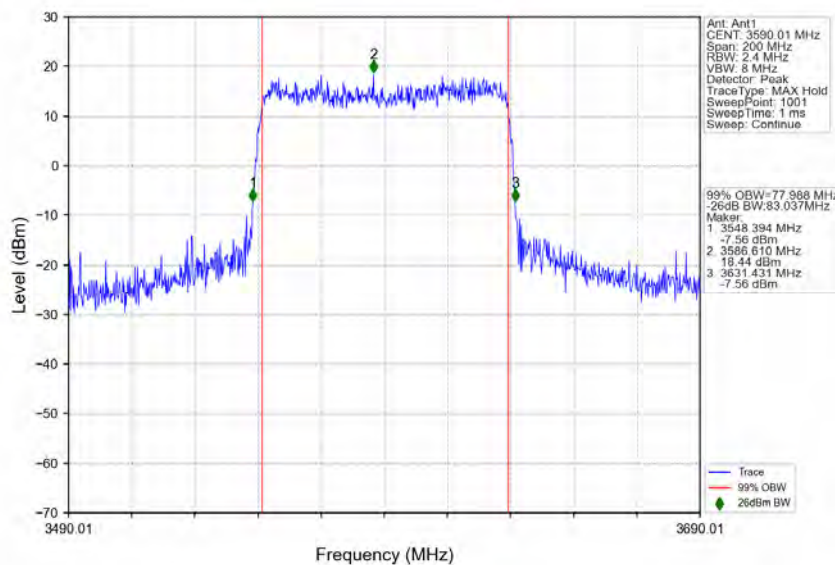
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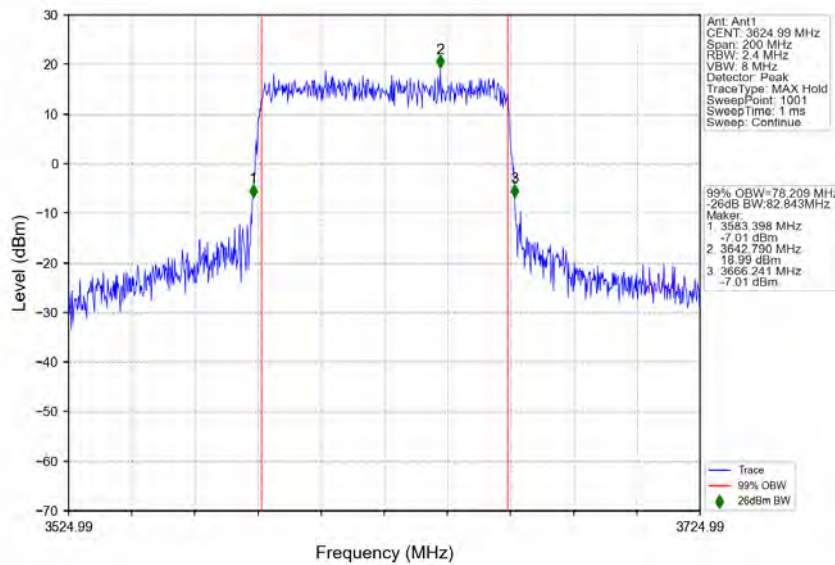
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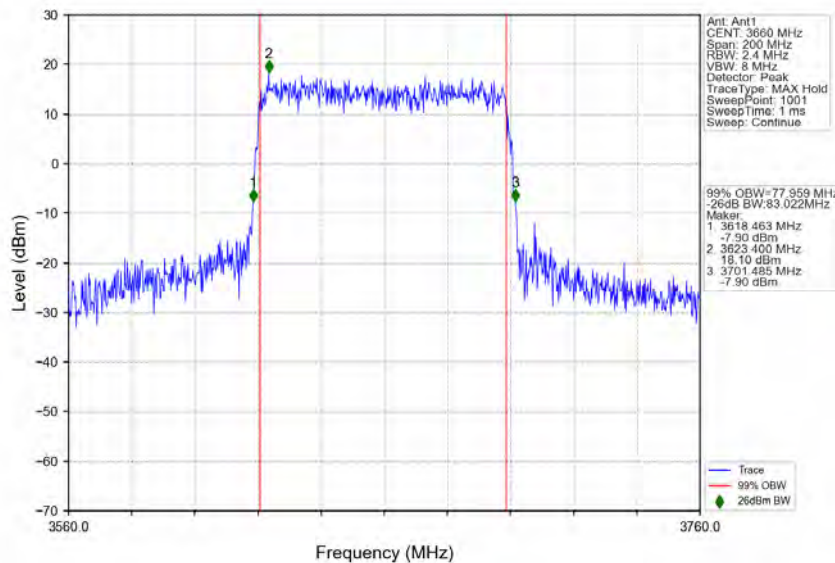
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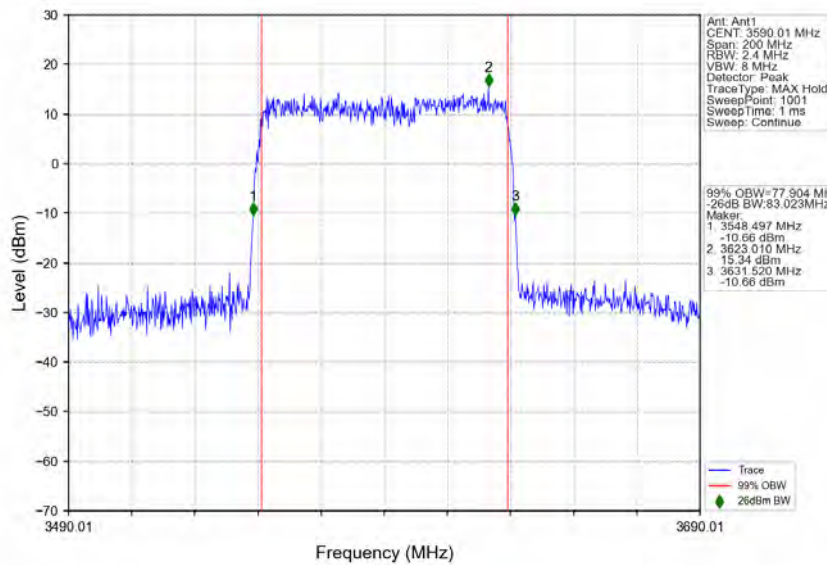
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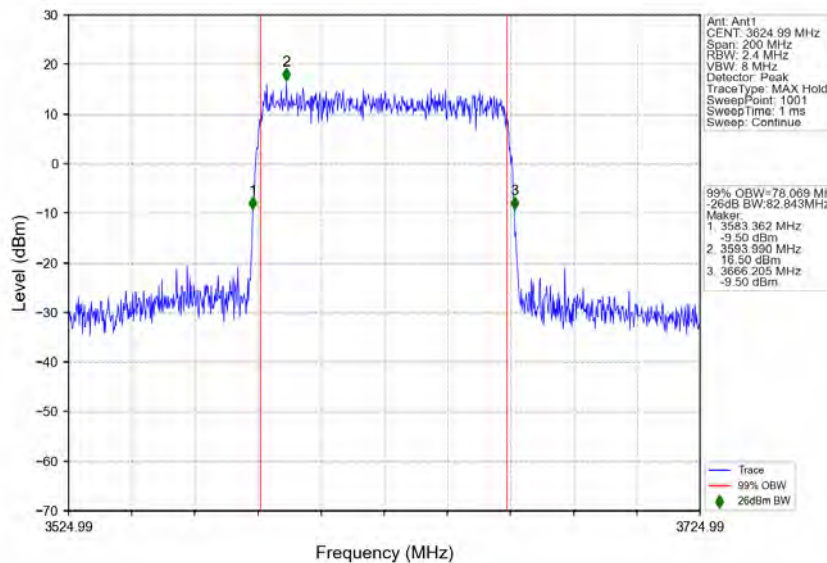
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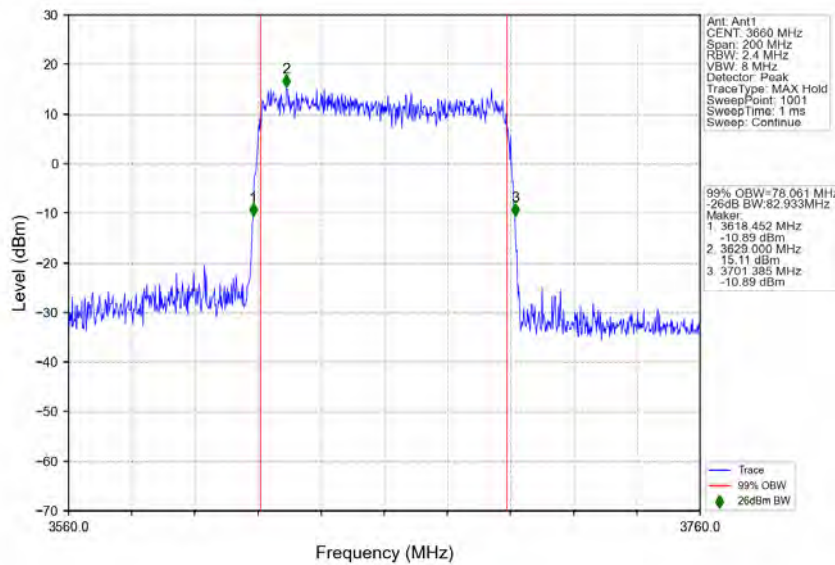
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Compliance Certification Services (Kunshan) Inc.
 EMC Laboratory

4.10 30k_MIMO_90MHz_NTNV

4.10.1 Test Result

5G NR n78d SCS=30kHz MIMO 90MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3595.02	Outer_Full	88.19	93.71	/	Pass
	3624.99	Outer_Full	87.80	93.78	/	Pass
	3654.99	Outer_Full	87.86	93.97	/	Pass
CP-OFDM 16 QAM	3595.02	Outer_Full	87.64	93.71	/	Pass
	3624.99	Outer_Full	87.85	93.52	/	Pass
	3654.99	Outer_Full	88.01	93.95	/	Pass
CP-OFDM 64 QAM	3595.02	Outer_Full	87.99	94.23	/	Pass
	3624.99	Outer_Full	88.14	93.84	/	Pass
	3654.99	Outer_Full	88.09	93.98	/	Pass
CP-OFDM 256 QAM	3595.02	Outer_Full	88.24	93.81	/	Pass
	3624.99	Outer_Full	88.17	93.72	/	Pass
	3654.99	Outer_Full	88.10	93.64	/	Pass

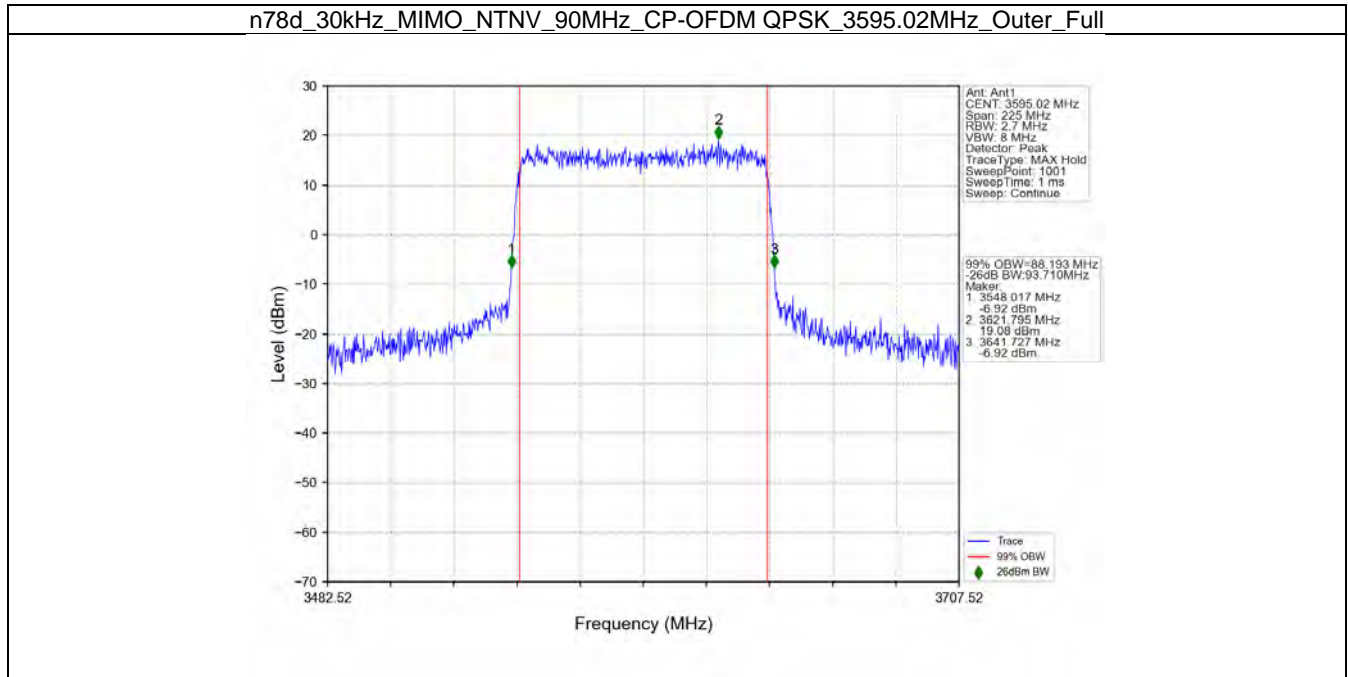


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4.10.2 Test Graph

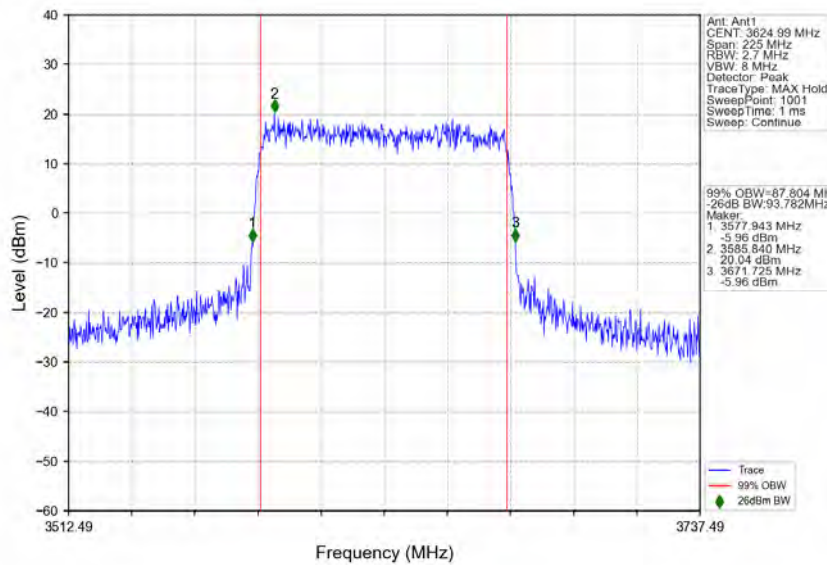


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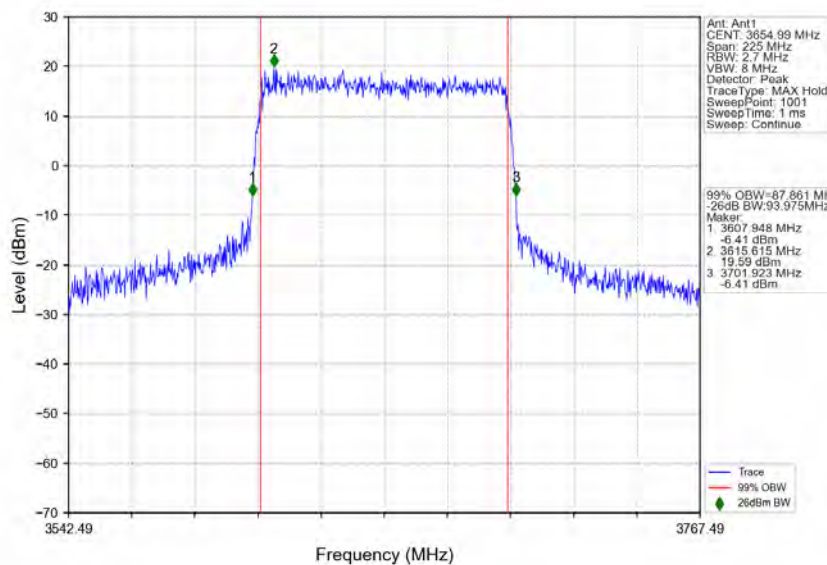
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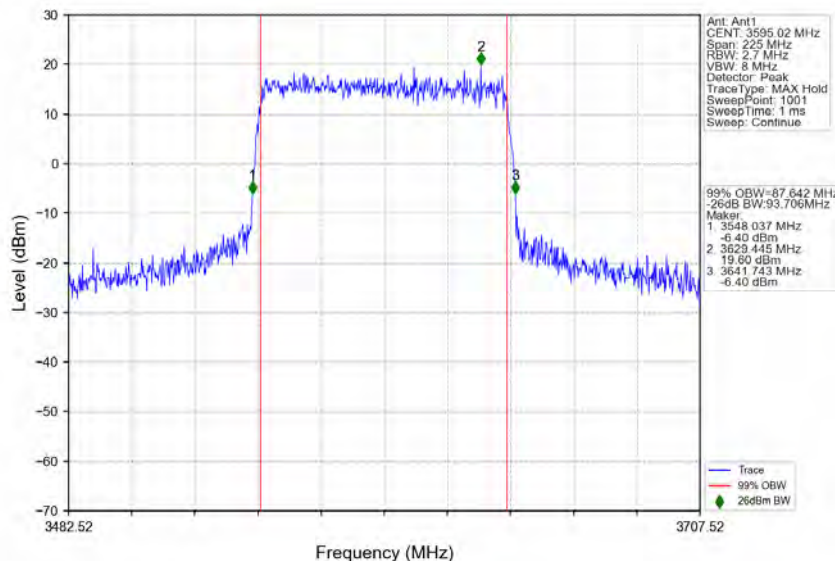
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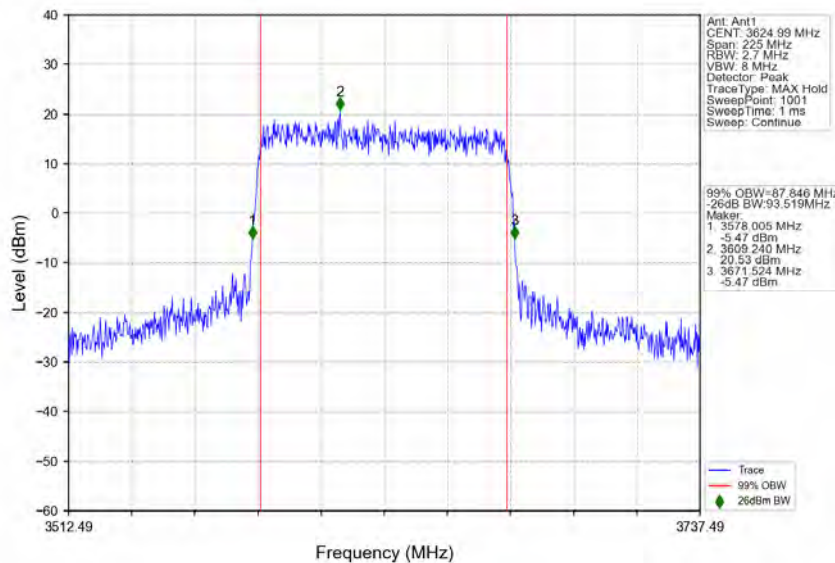
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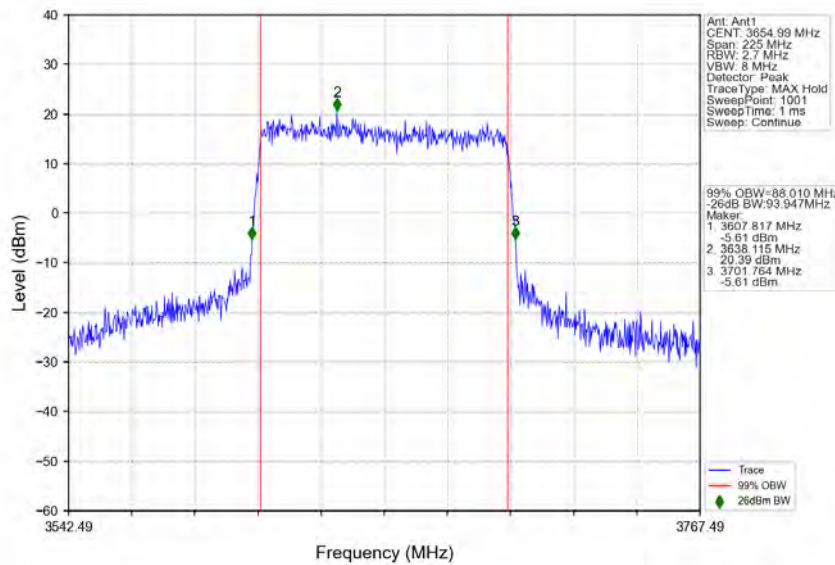
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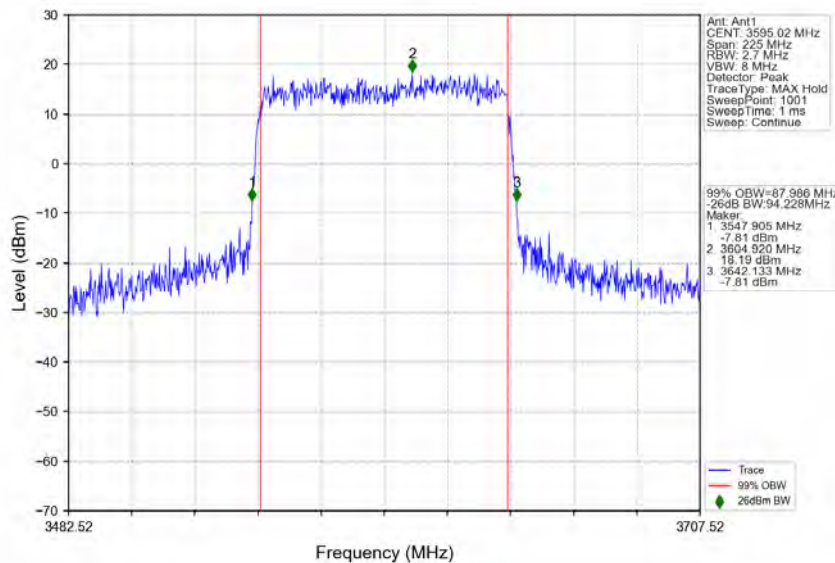
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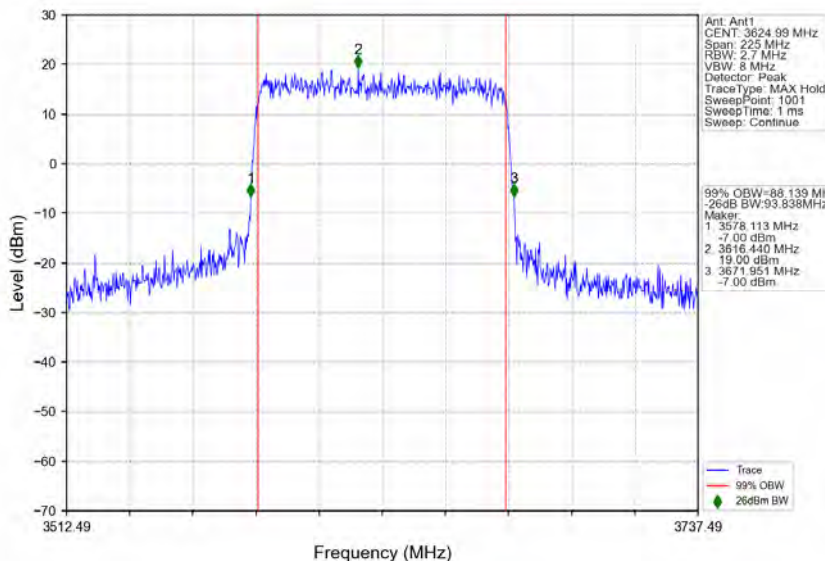
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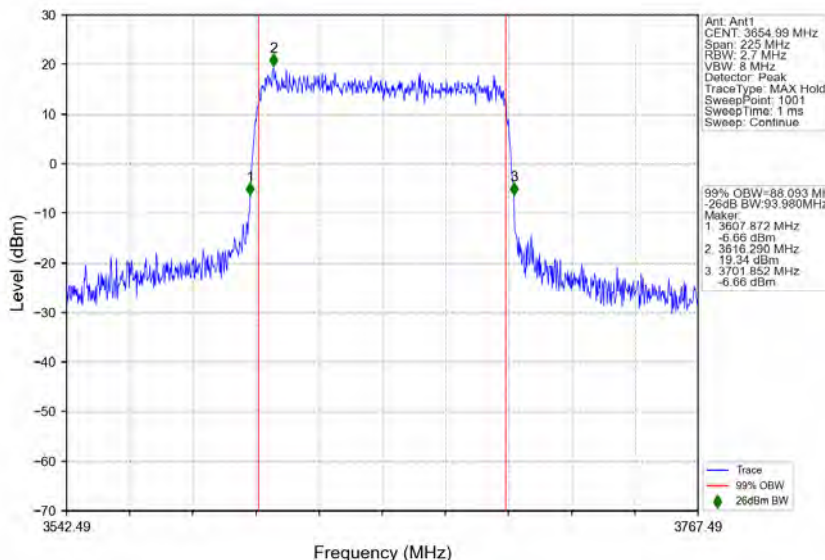
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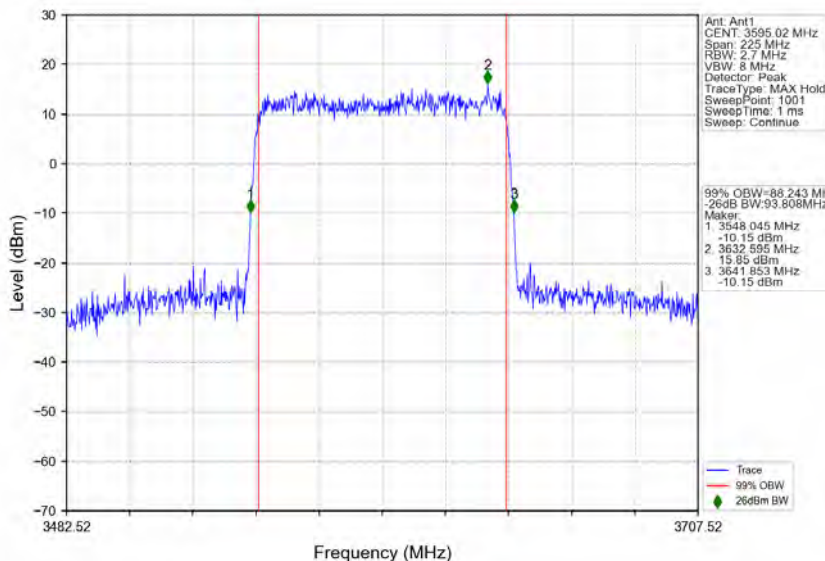
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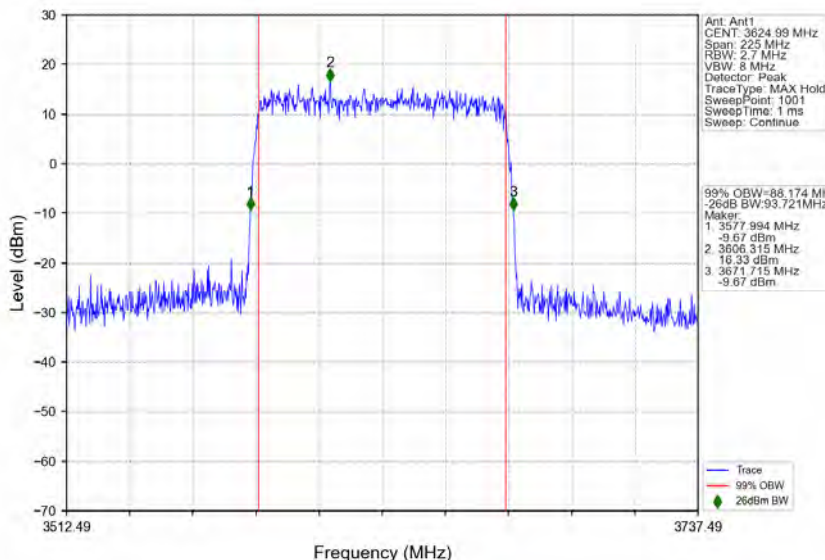
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_256_QAM_3595.02MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full

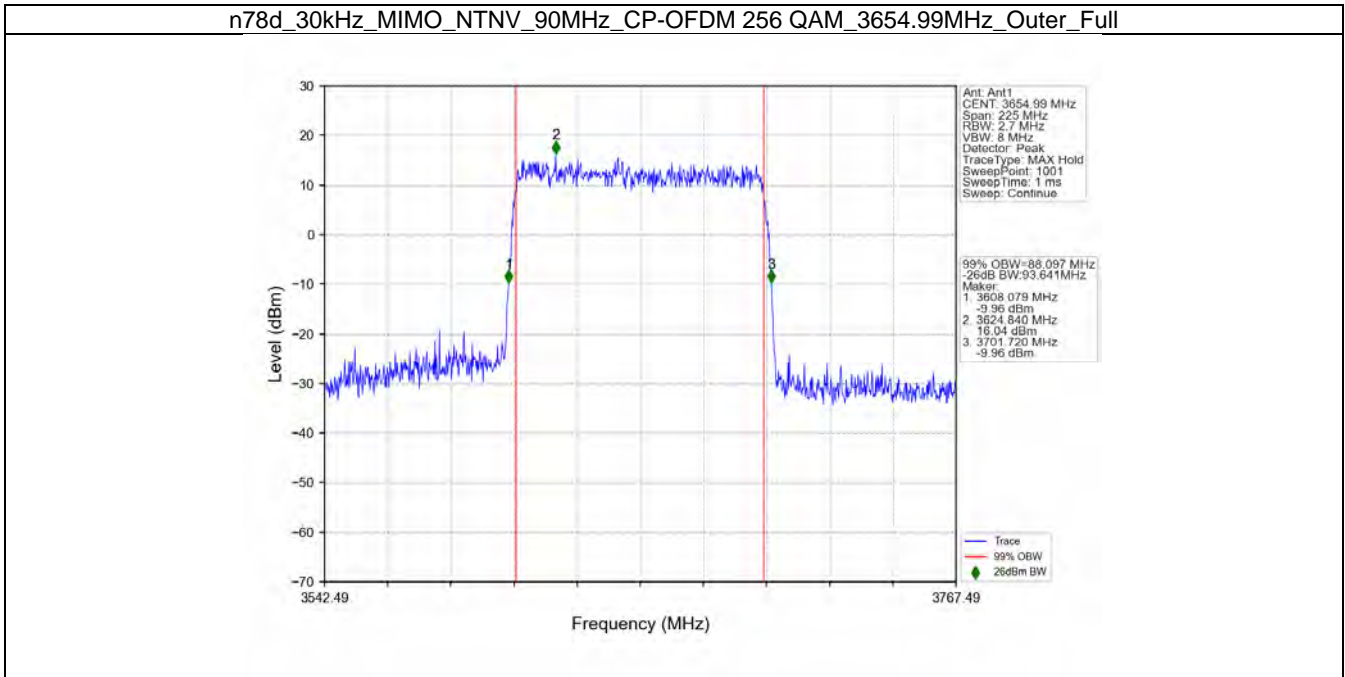


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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 256 QAM_3654.99MHz_Outer_Full



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4.11 30k_MIMO_100MHz_NTNV

4.11.1 Test Result

5G NR n78d SCS=30kHz MIMO 100MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
CP-OFDM QPSK	3600	Outer_Full	98.12	104.52	/	Pass
	3624.99	Outer_Full	97.62	104.19	/	Pass
	3649.98	Outer_Full	98.10	104.41	/	Pass
CP-OFDM 16 QAM	3600	Outer_Full	98.24	105.06	/	Pass
	3624.99	Outer_Full	97.75	104.84	/	Pass
	3649.98	Outer_Full	98.64	104.09	/	Pass
CP-OFDM 64 QAM	3600	Outer_Full	97.88	104.52	/	Pass
	3624.99	Outer_Full	98.11	104.36	/	Pass
	3649.98	Outer_Full	98.02	104.22	/	Pass
CP-OFDM 256 QAM	3600	Outer_Full	98.31	104.36	/	Pass
	3624.99	Outer_Full	97.70	104.19	/	Pass
	3649.98	Outer_Full	98.15	103.39	/	Pass



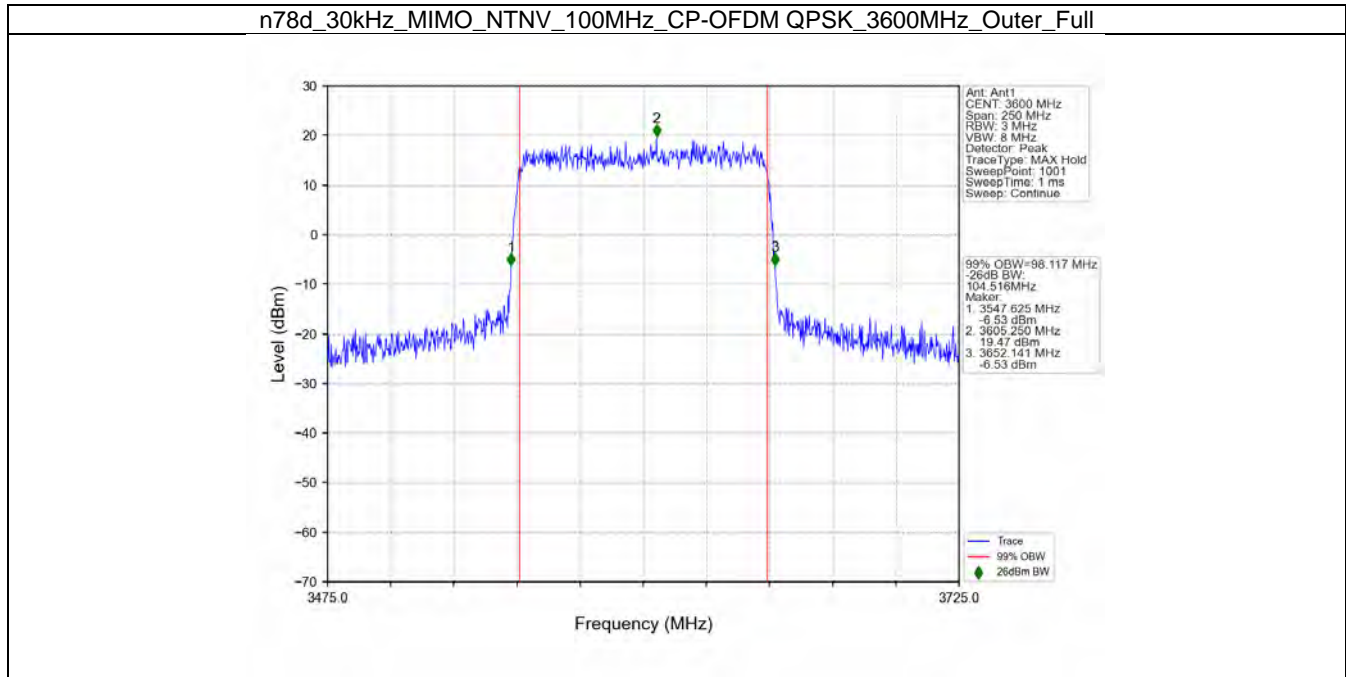
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4.11.2 Test Graph



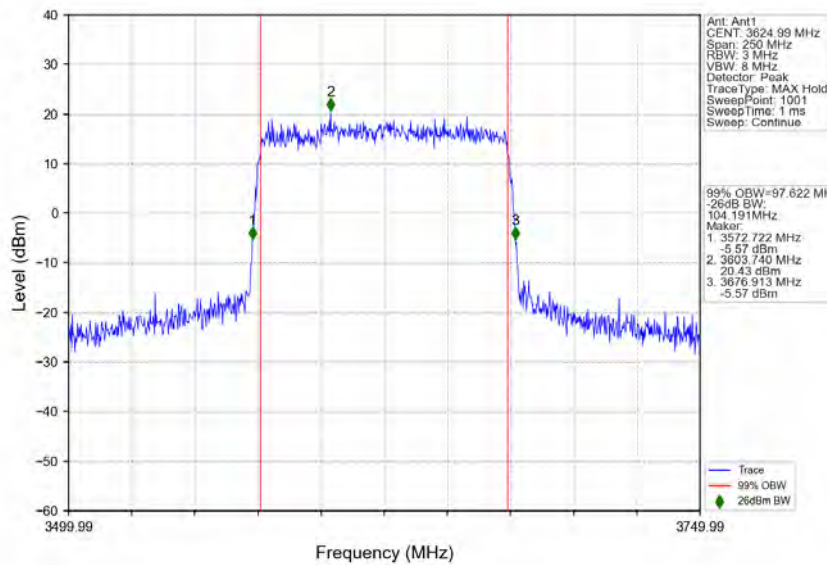
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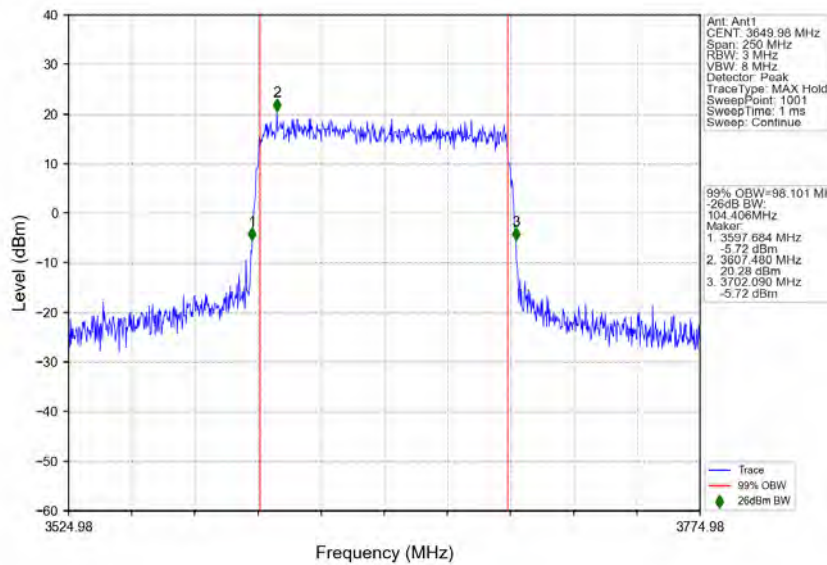
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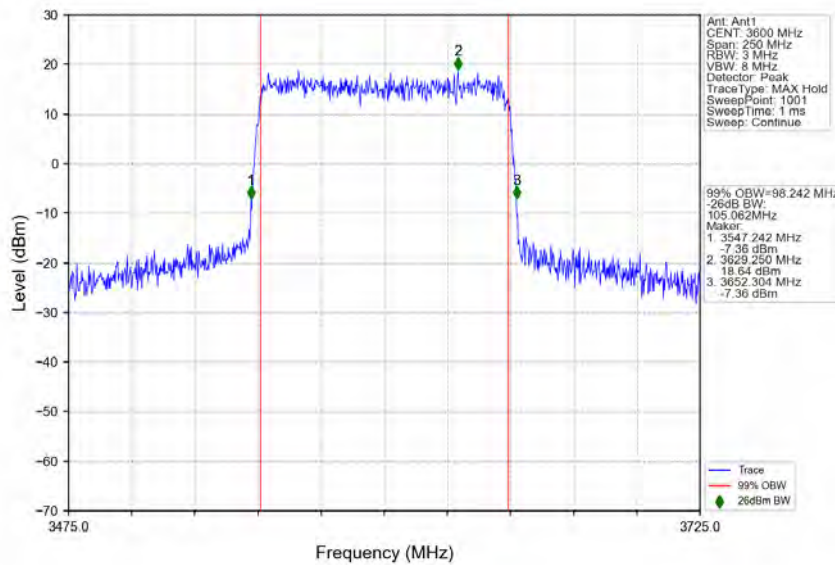
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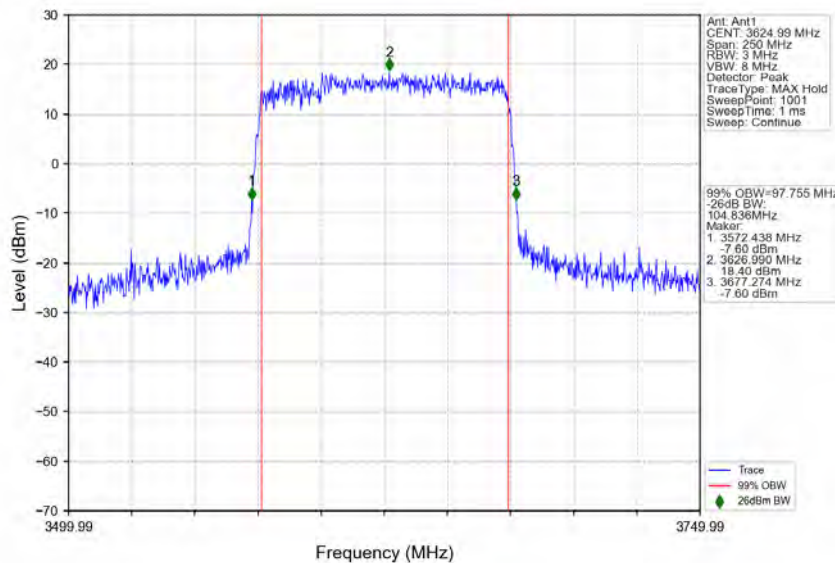
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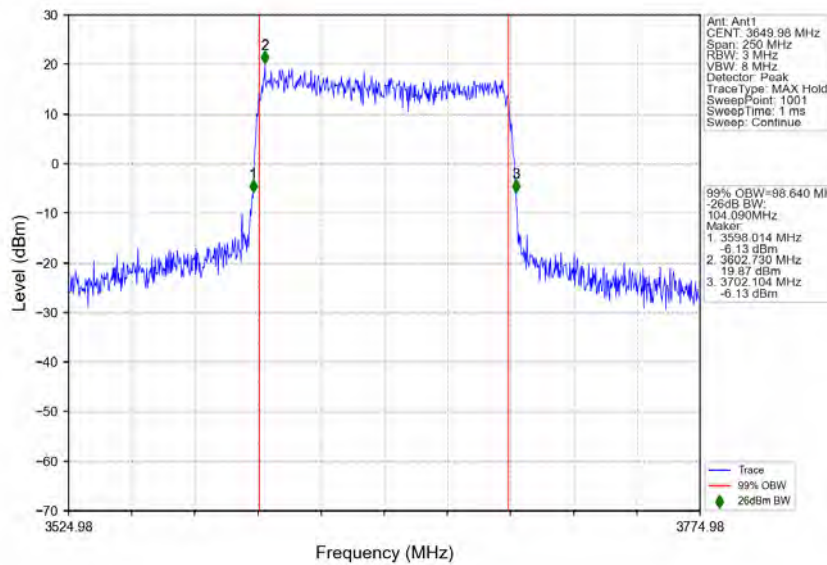
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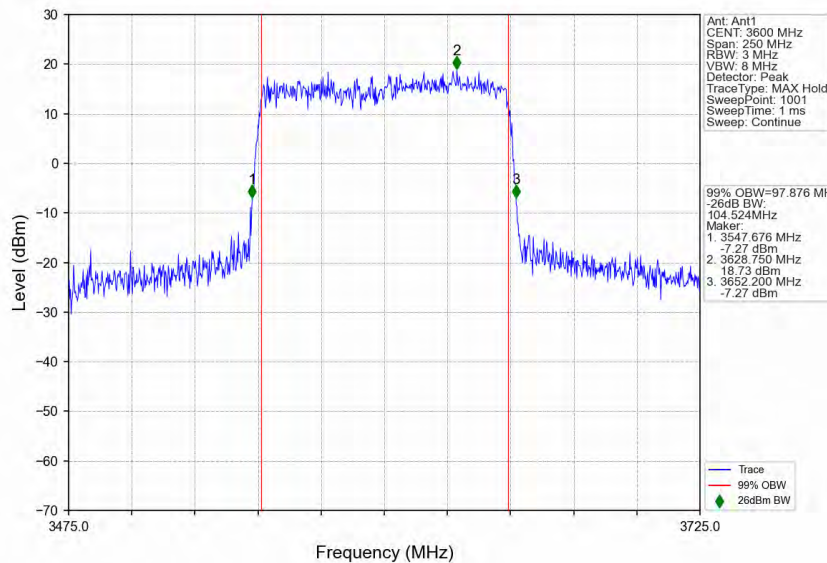
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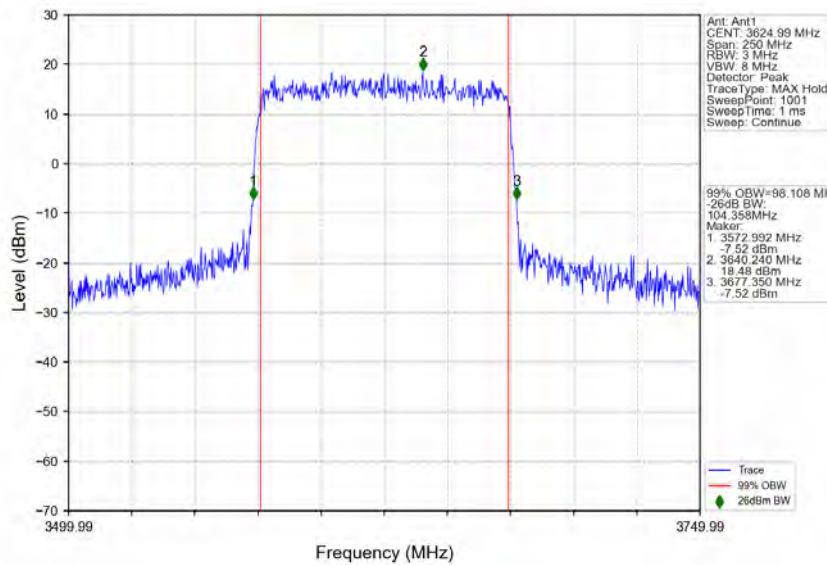
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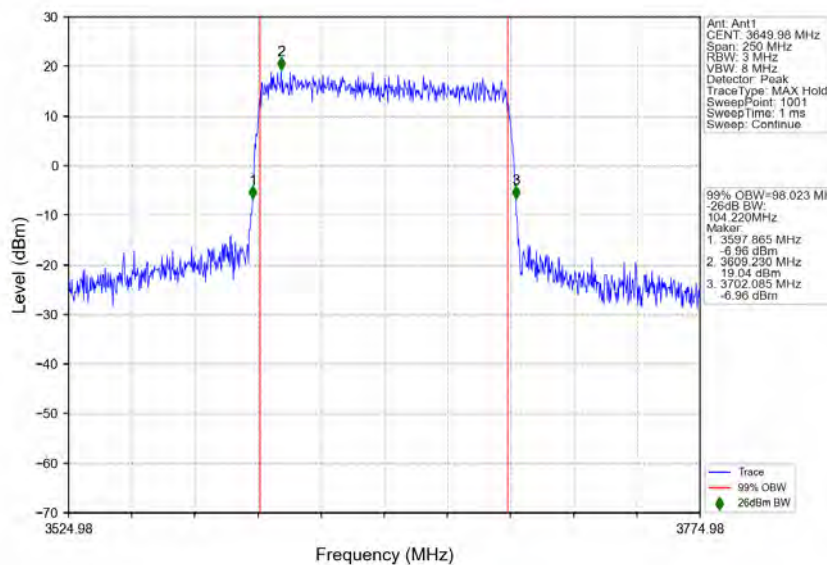
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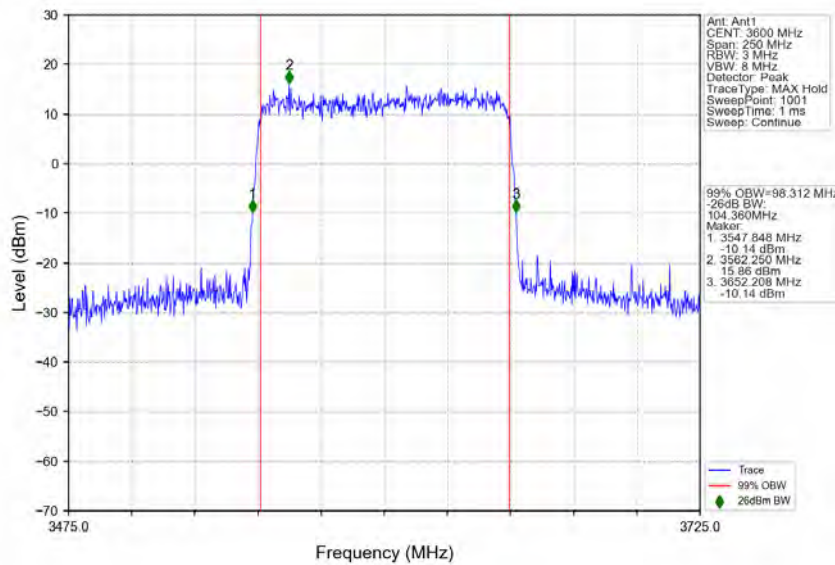
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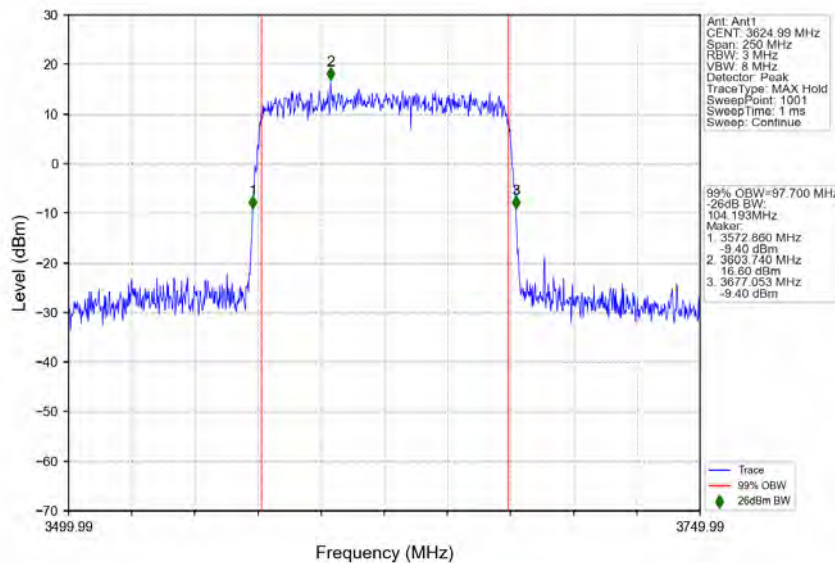
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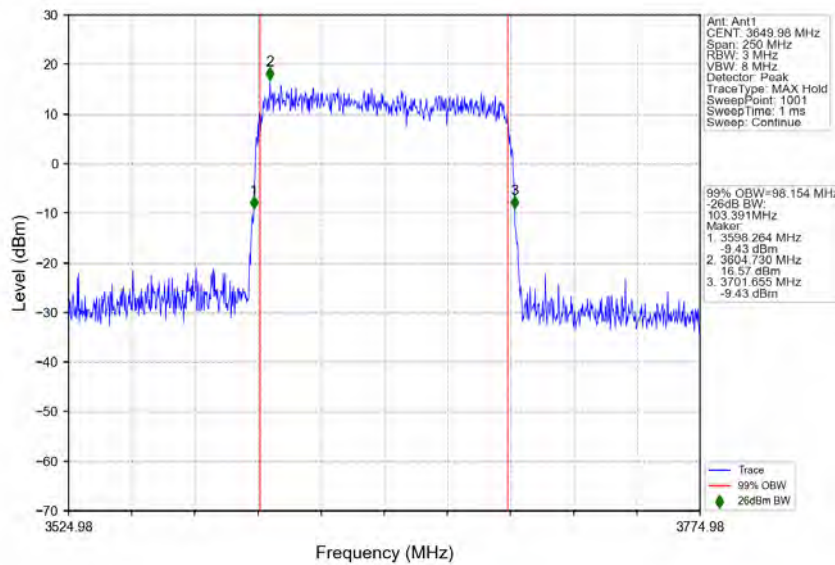
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5. Peak-Average Ratio

5.1 30k_MIMO_10MHz_NTNV

5.1.1 Test Result

5G NR n78d SCS=30kHz MIMO 10MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Outer_Full	12.70	/	/	<=13	Pass
	3624.99	Outer_Full	12.81	/	/	<=13	Pass
	3694.98	Outer_Full	11.62	/	/	<=13	Pass
CP-OFDM 16 QAM	3555	Outer_Full	11.23	/	/	<=13	Pass
	3624.99	Outer_Full	12.56	/	/	<=13	Pass
	3694.98	Outer_Full	11.41	/	/	<=13	Pass
CP-OFDM 64 QAM	3555	Outer_Full	11.12	/	/	<=13	Pass
	3624.99	Outer_Full	12.77	/	/	<=13	Pass
	3694.98	Outer_Full	11.52	/	/	<=13	Pass
CP-OFDM 256 QAM	3555	Outer_Full	11.58	/	/	<=13	Pass
	3624.99	Outer_Full	11.90	/	/	<=13	Pass
	3694.98	Outer_Full	11.63	/	/	<=13	Pass



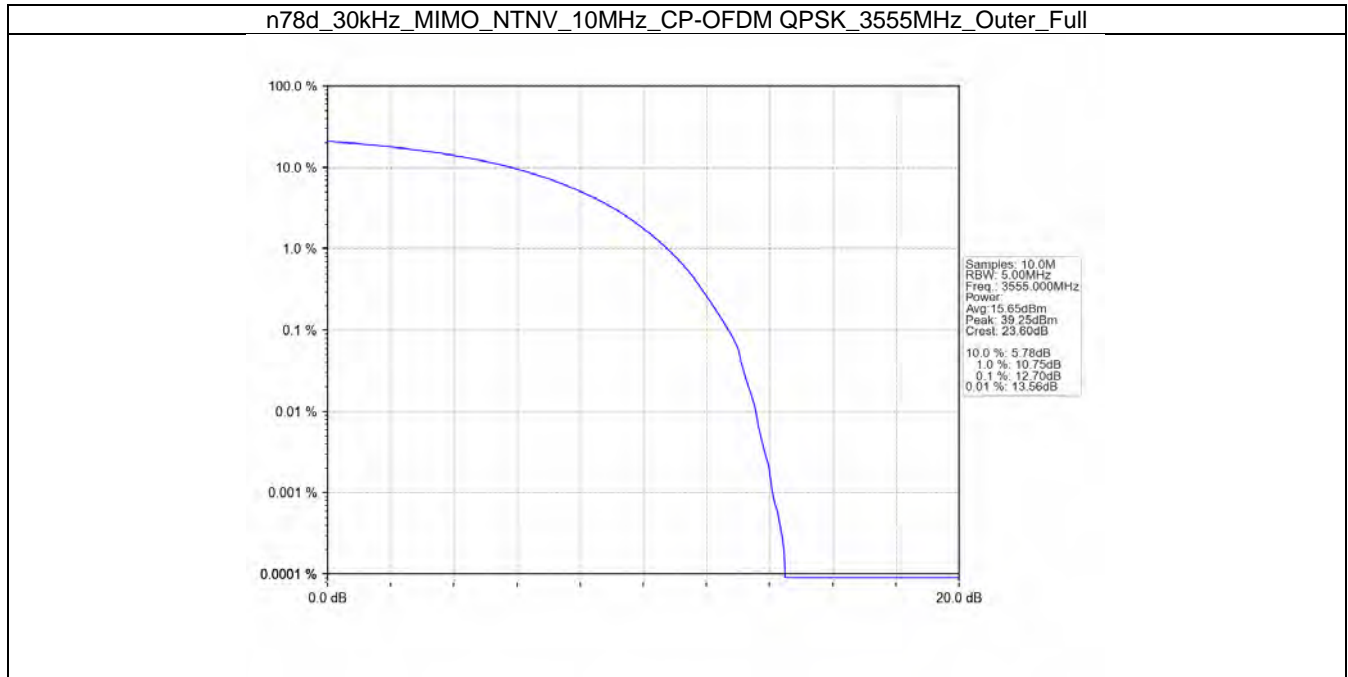
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5.1.2 Test Graph

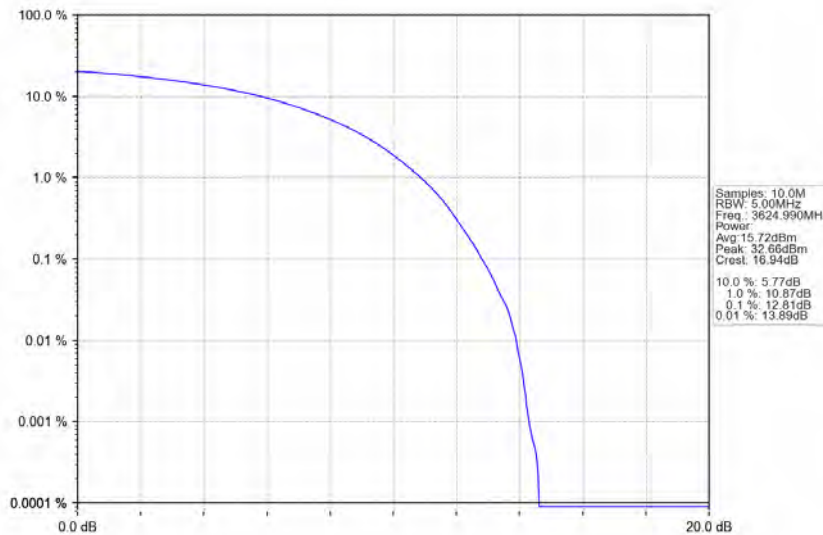


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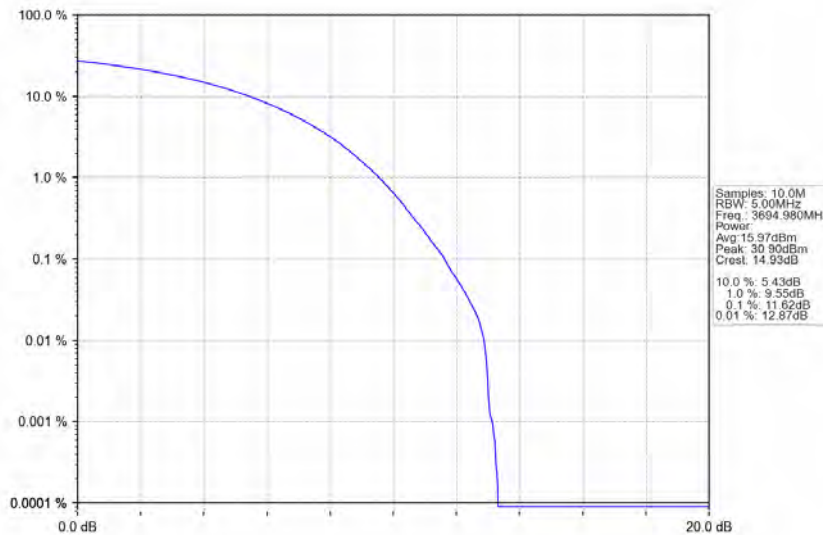
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



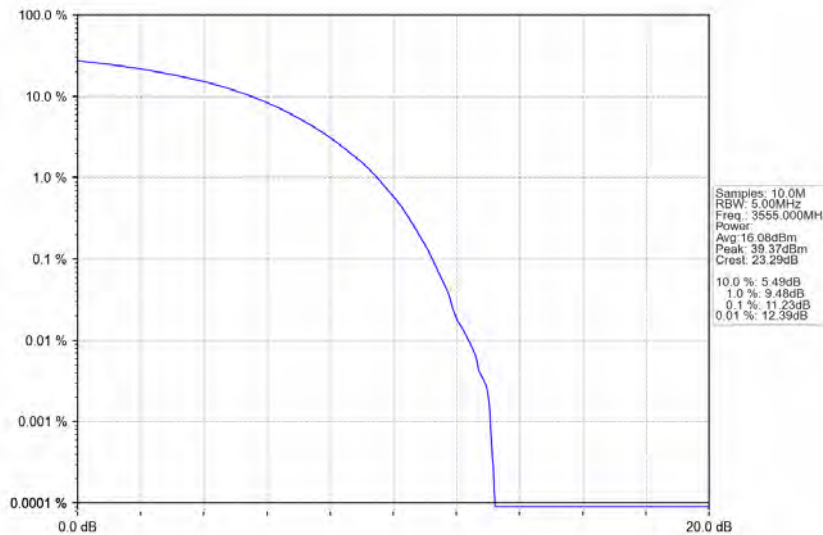
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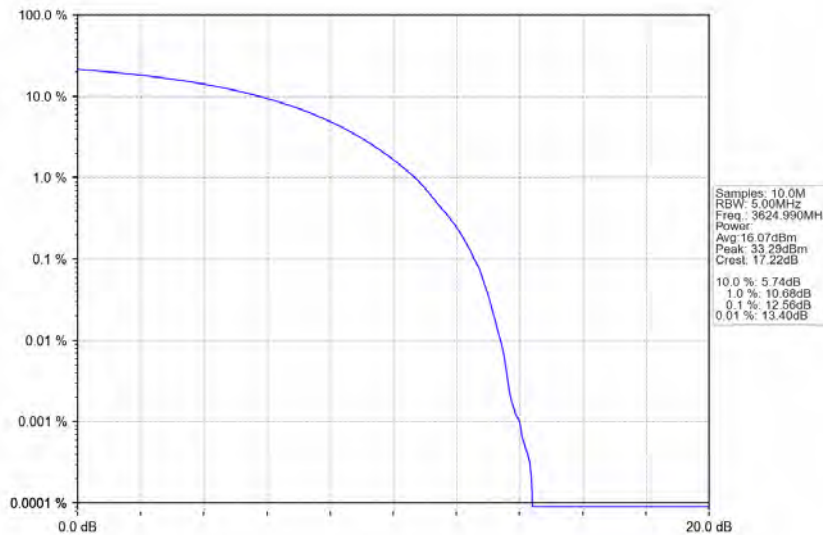
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM_3555MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



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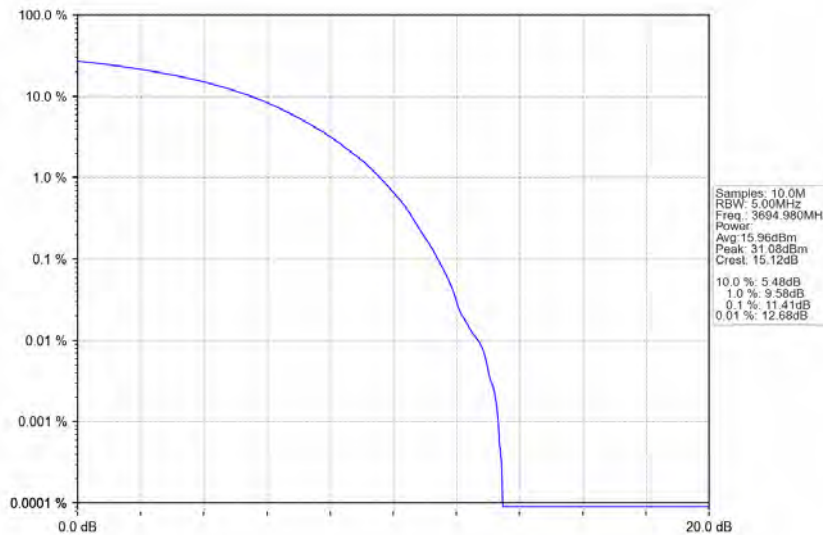
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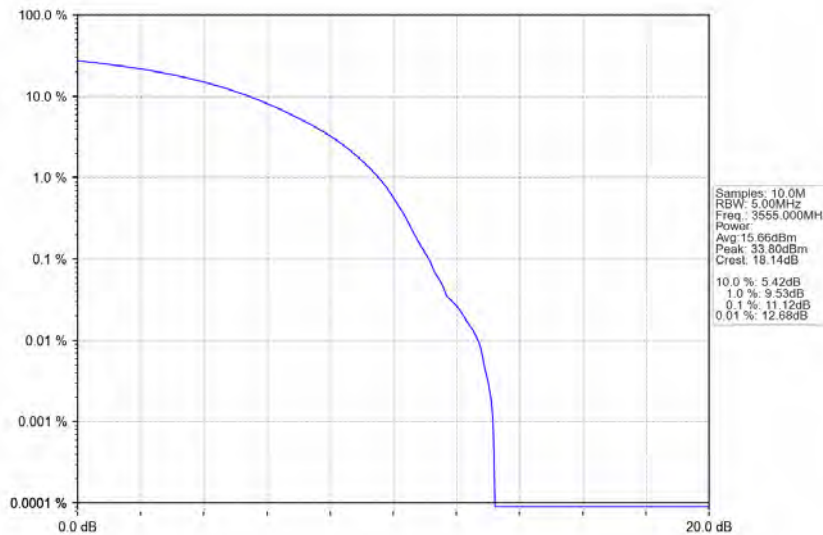
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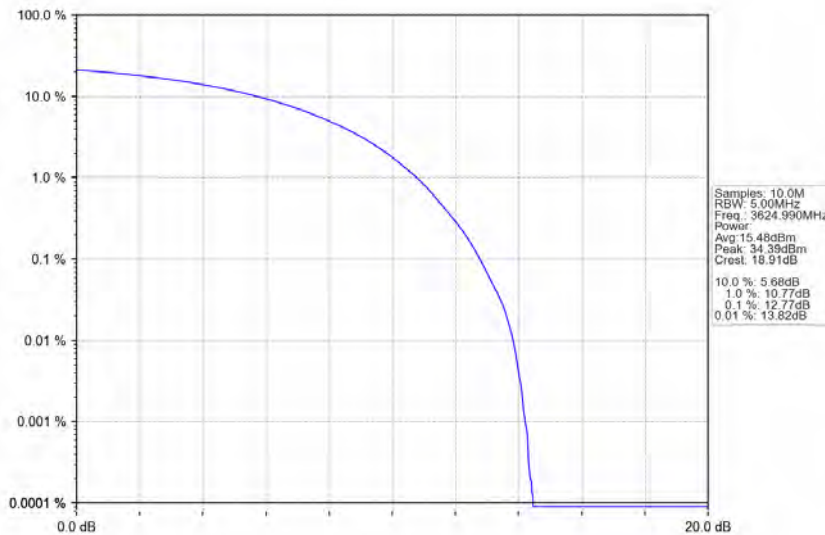
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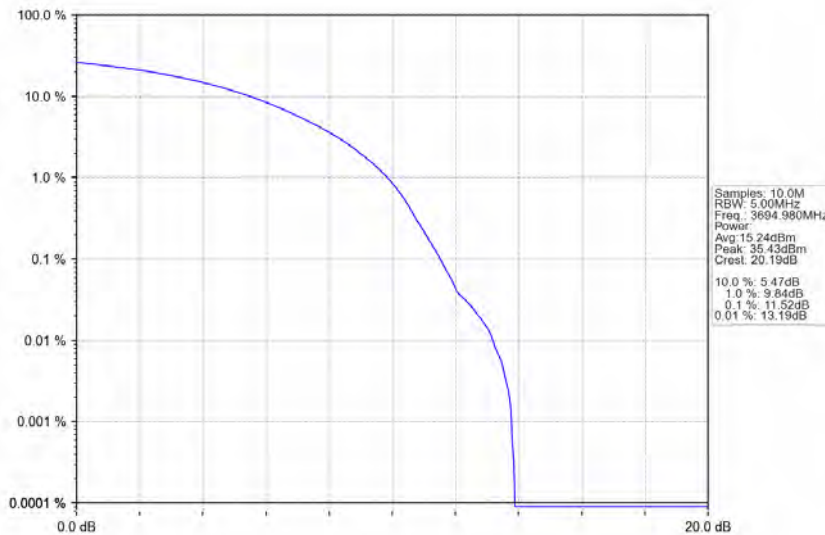
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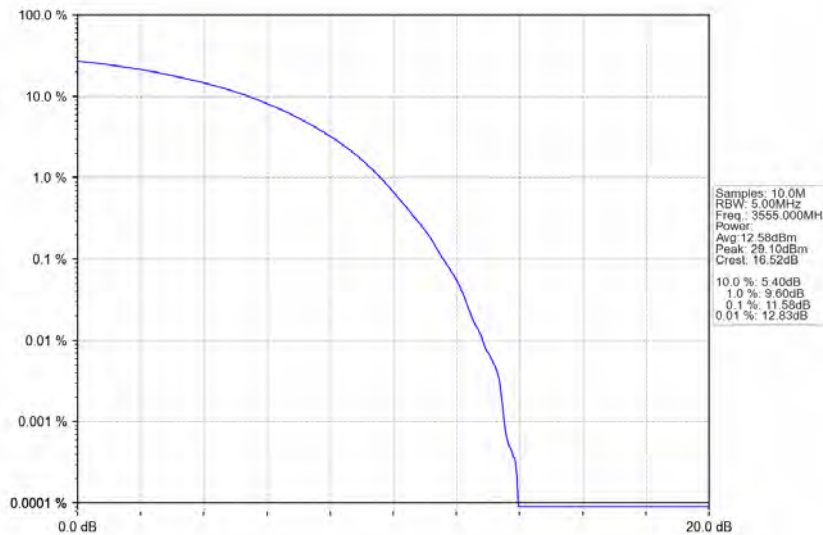
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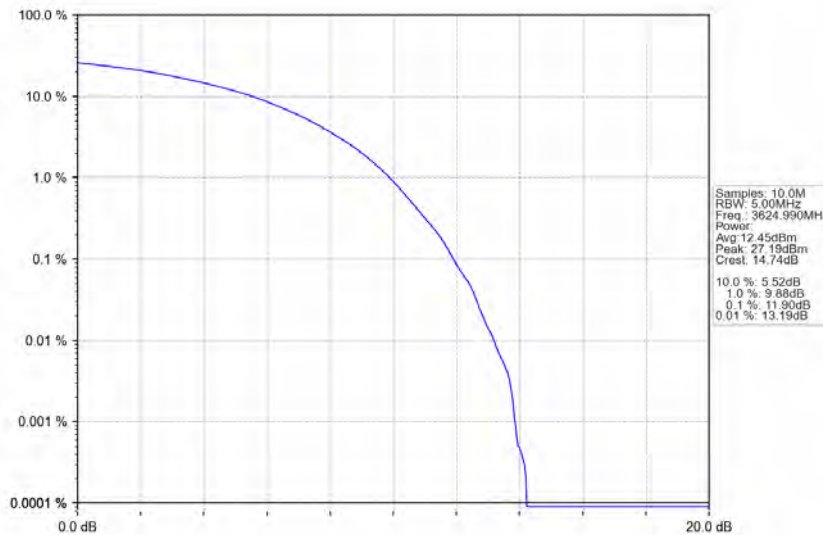
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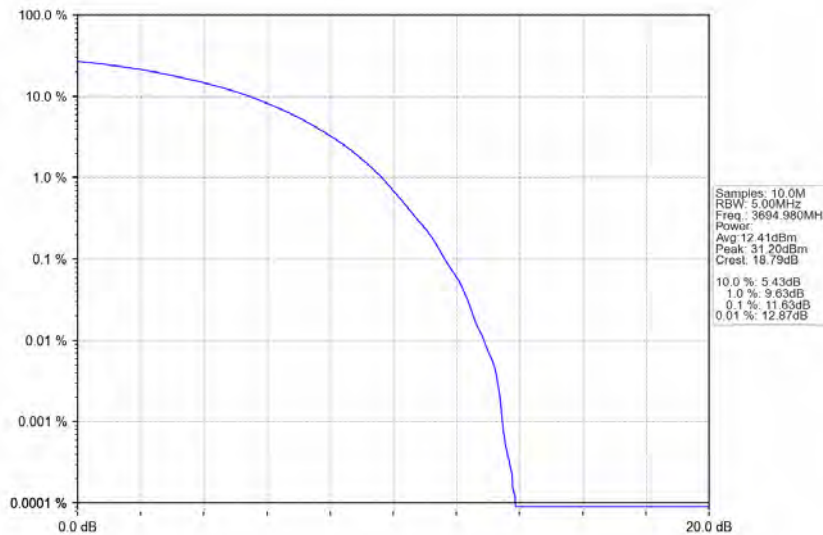
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5.2 30k_MIMO_15MHz_NTNV

5.2.1 Test Result

5G NR n78d SCS=30kHz MIMO 15MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3557.52	Outer_Full	11.79	/	/	<=13	Pass
	3624.99	Outer_Full	12.23	/	/	<=13	Pass
	3692.49	Outer_Full	11.21	/	/	<=13	Pass
CP-OFDM 16 QAM	3557.52	Outer_Full	11.47	/	/	<=13	Pass
	3624.99	Outer_Full	11.41	/	/	<=13	Pass
	3692.49	Outer_Full	11.43	/	/	<=13	Pass
CP-OFDM 64 QAM	3557.52	Outer_Full	11.71	/	/	<=13	Pass
	3624.99	Outer_Full	11.58	/	/	<=13	Pass
	3692.49	Outer_Full	11.61	/	/	<=13	Pass
CP-OFDM 256 QAM	3557.52	Outer_Full	11.87	/	/	<=13	Pass
	3624.99	Outer_Full	12.07	/	/	<=13	Pass
	3692.49	Outer_Full	11.95	/	/	<=13	Pass



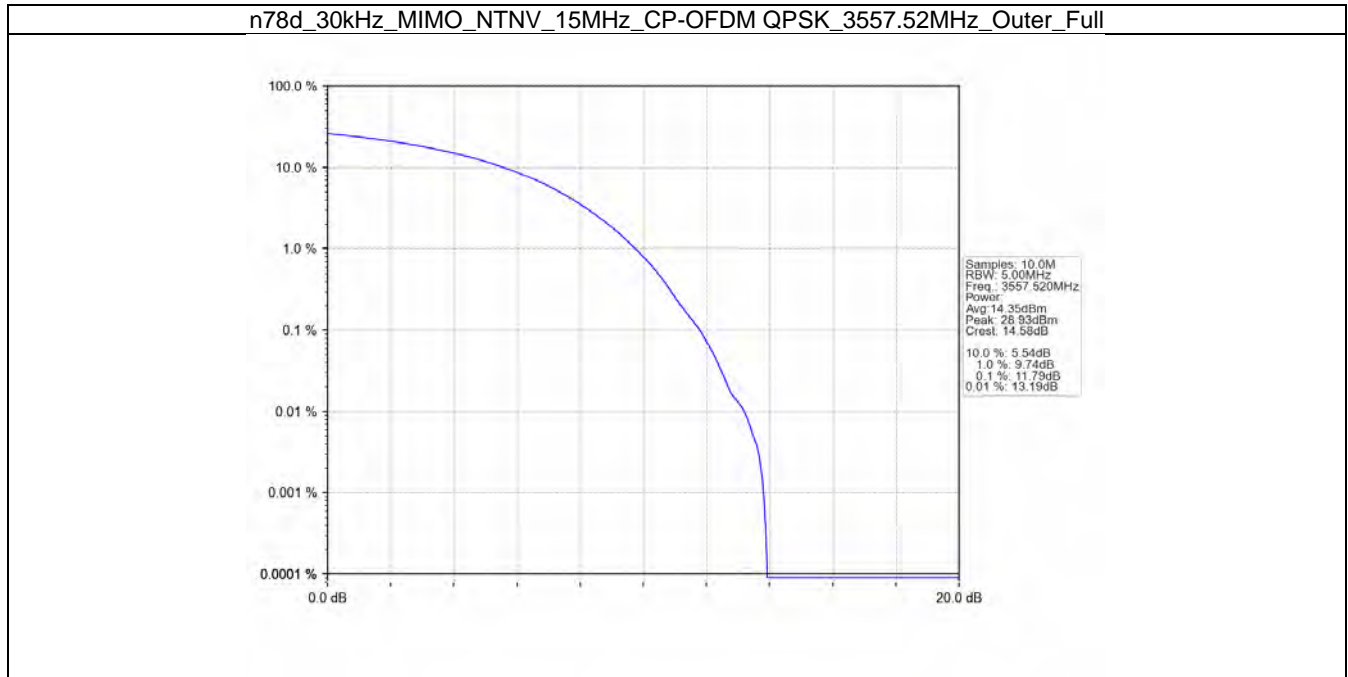
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5.2.2 Test Graph



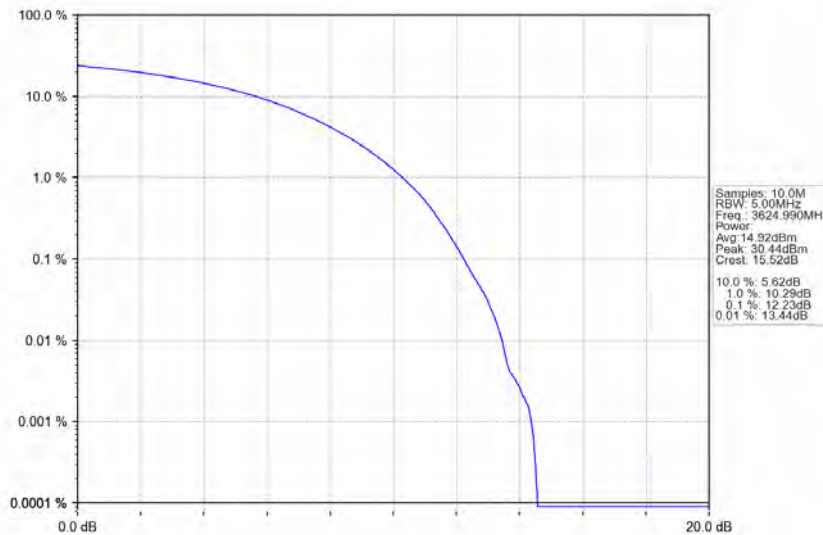
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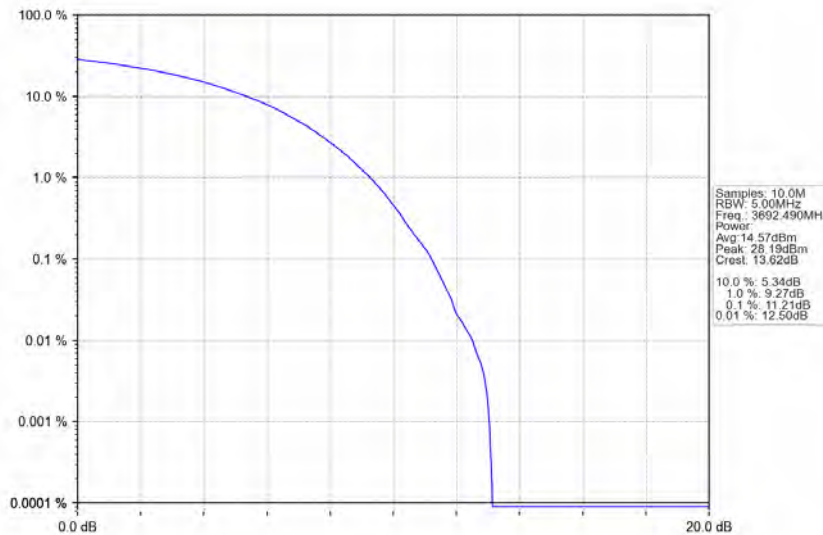
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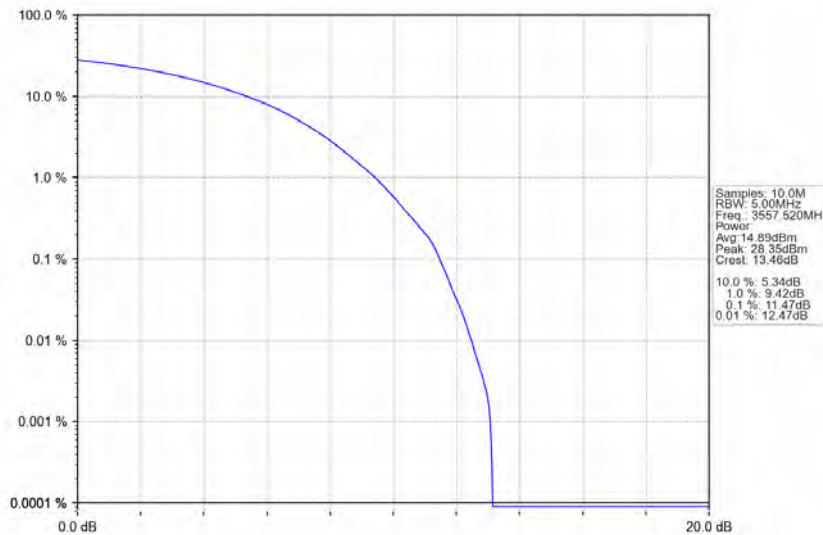
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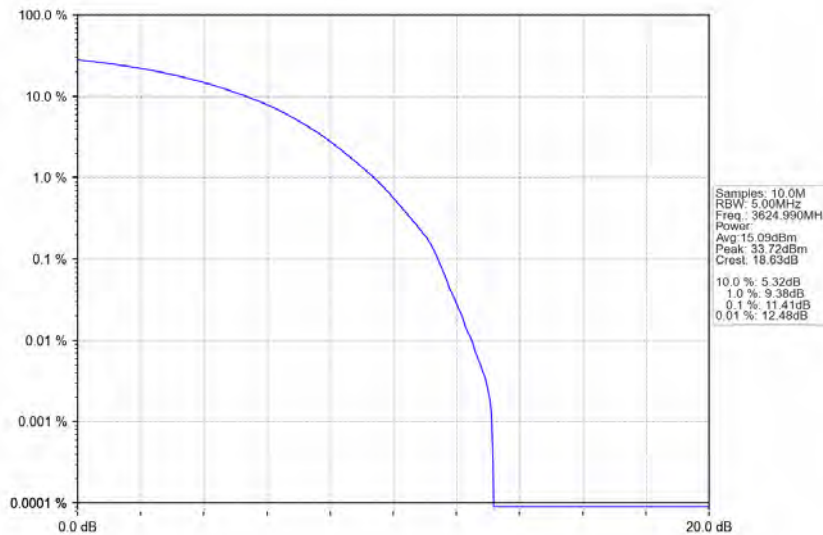
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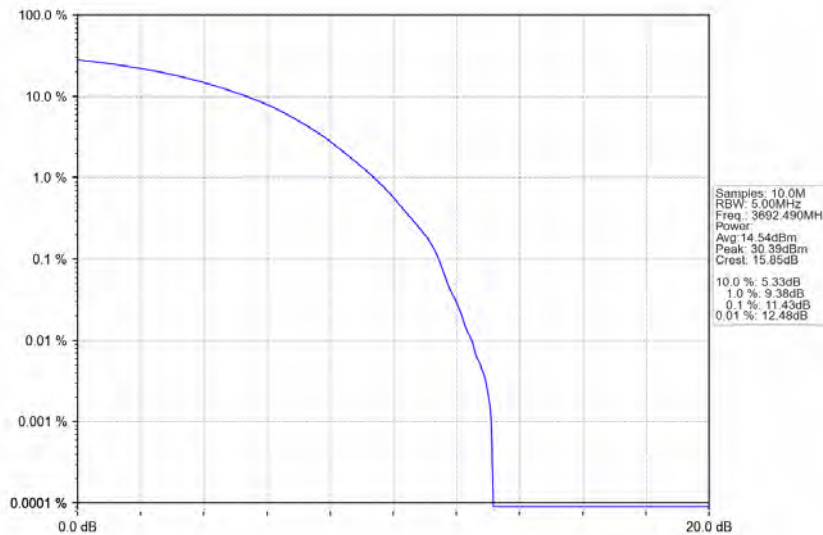
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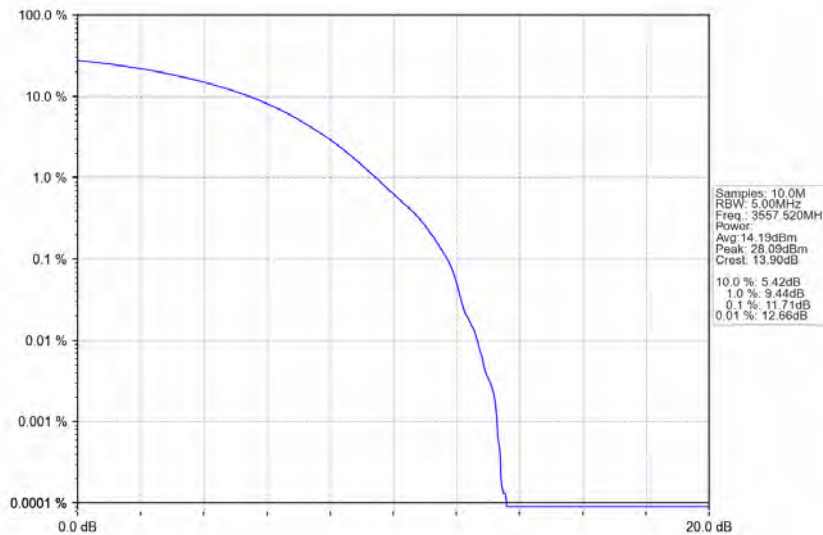
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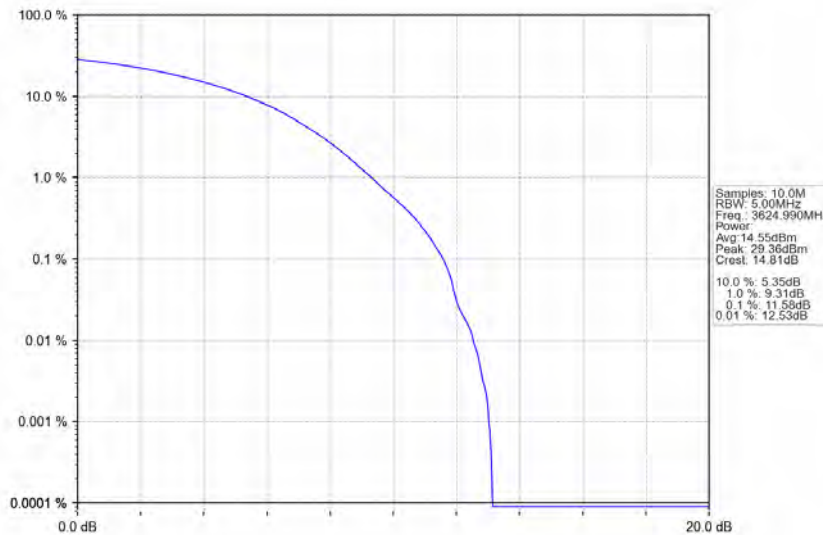
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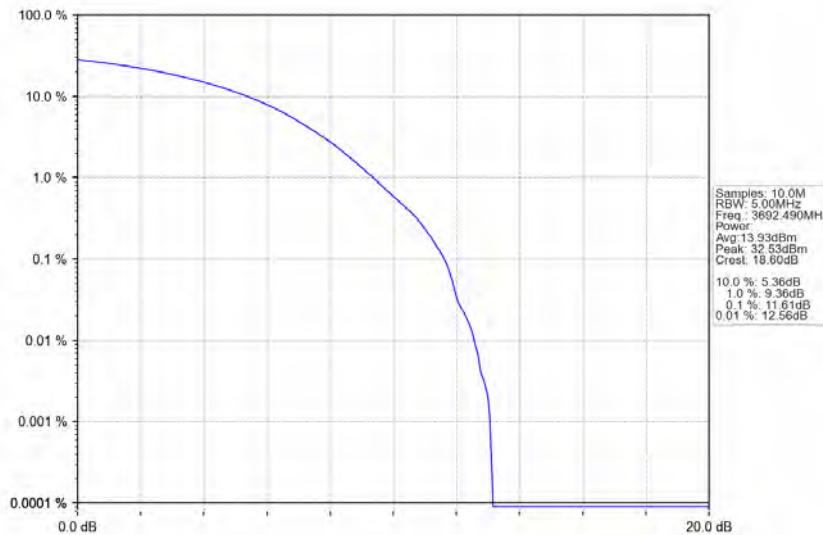
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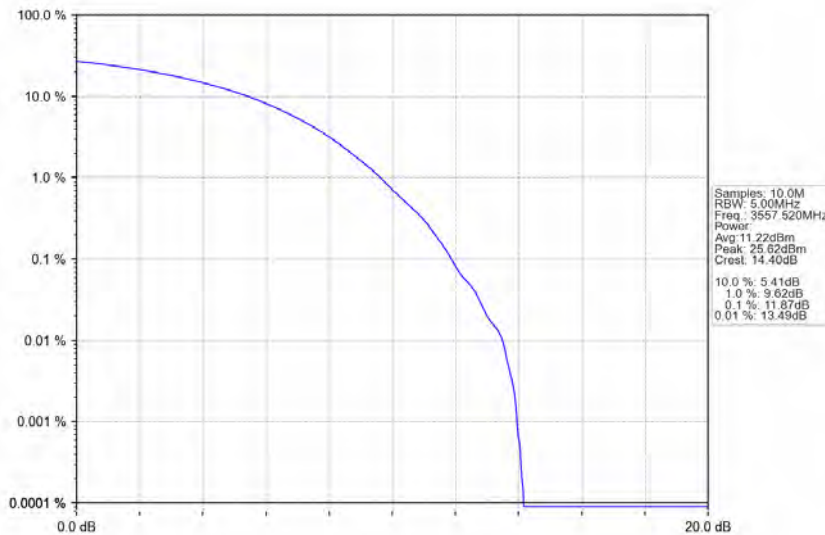
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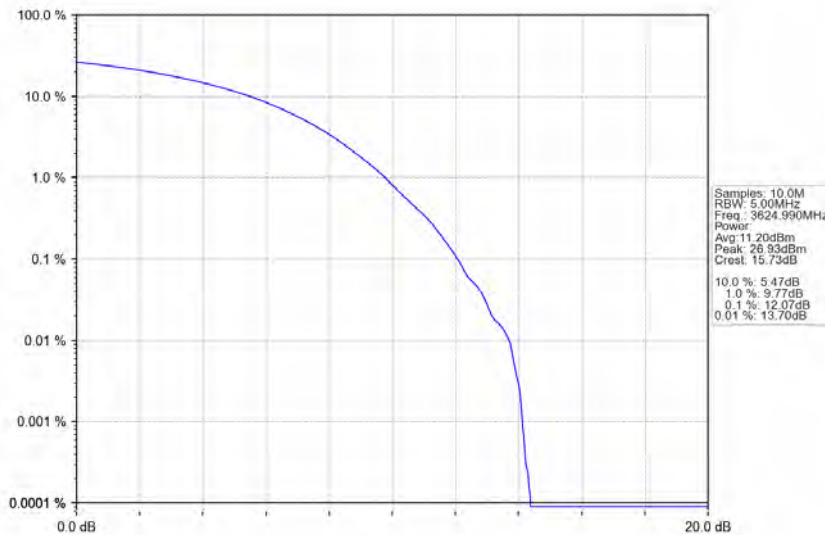
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



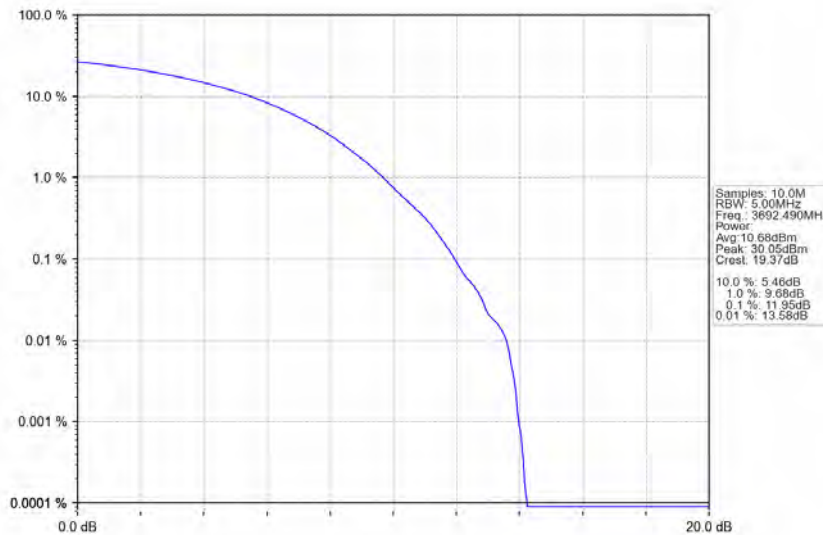
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5.3 30k_MIMO_20MHz_NTNV

5.3.1 Test Result

5G NR n78d SCS=30kHz MIMO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3560.01	Outer_Full	12.26	/	/	<=13	Pass
	3624.99	Outer_Full	12.54	/	/	<=13	Pass
	3690	Outer_Full	12.16	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	12.11	/	/	<=13	Pass
	3624.99	Outer_Full	12.74	/	/	<=13	Pass
	3690	Outer_Full	10.99	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	12.43	/	/	<=13	Pass
	3624.99	Outer_Full	11.68	/	/	<=13	Pass
	3690	Outer_Full	11.11	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	12.01	/	/	<=13	Pass
	3624.99	Outer_Full	12.04	/	/	<=13	Pass
	3690	Outer_Full	11.97	/	/	<=13	Pass

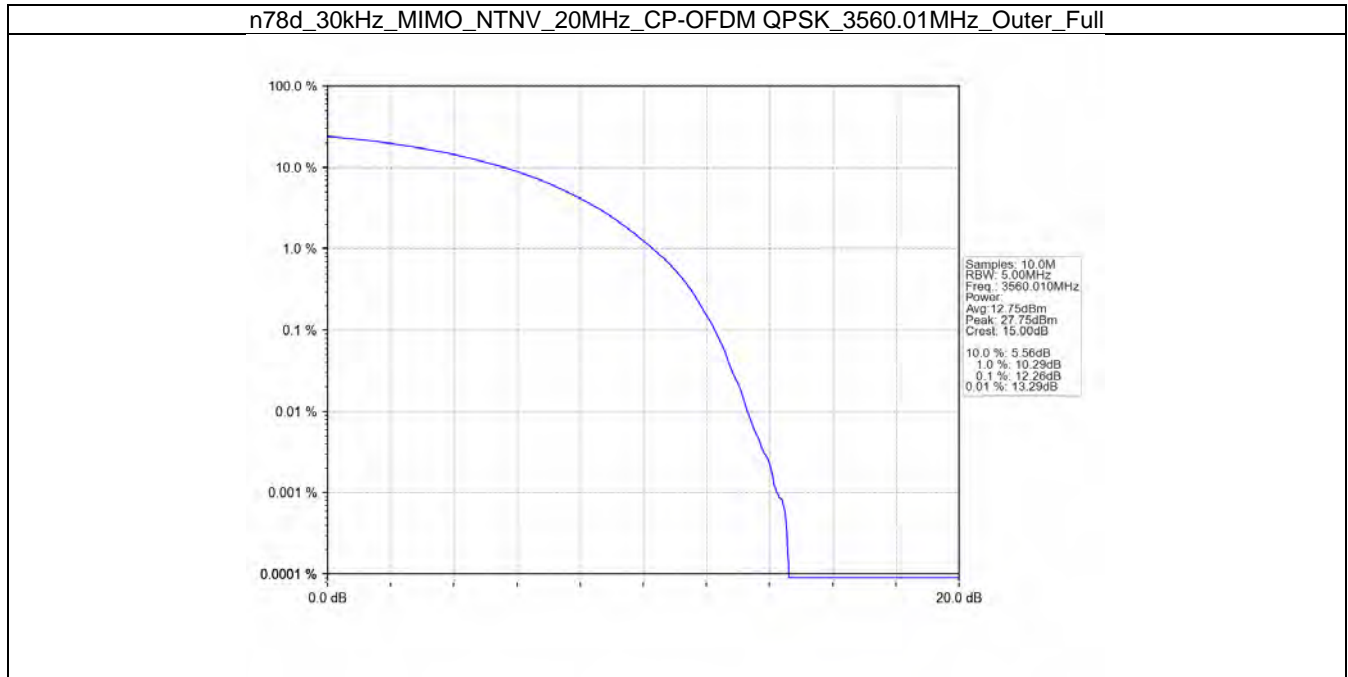


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5.3.2 Test Graph



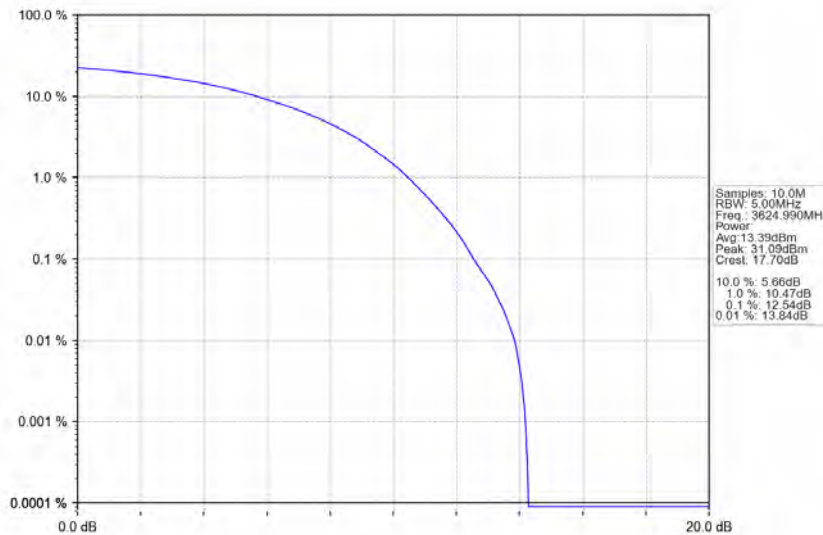
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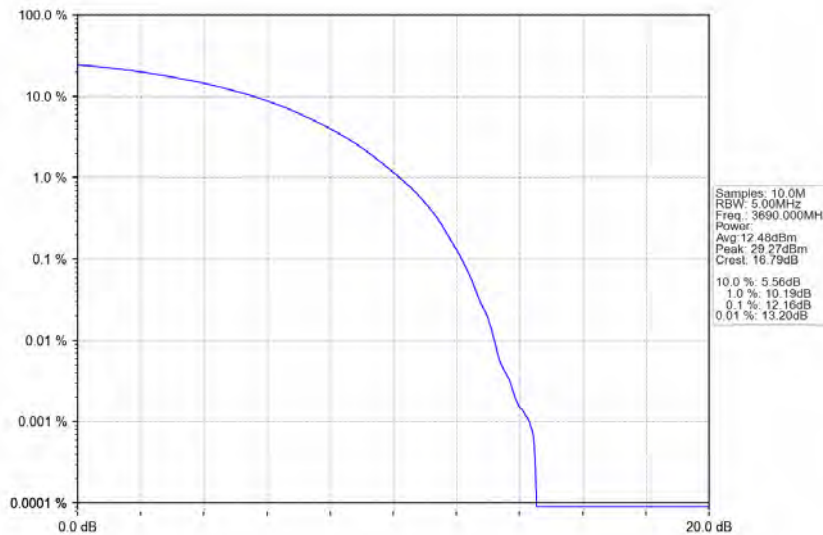
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Outer_Full



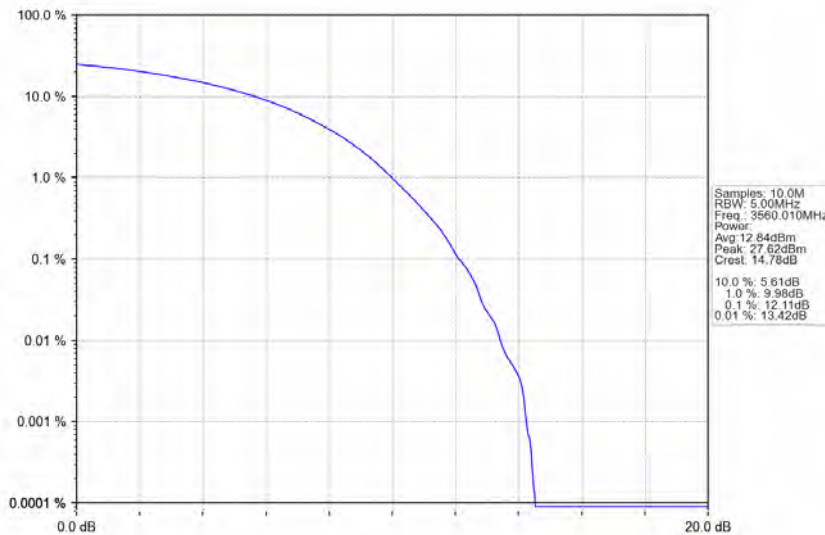
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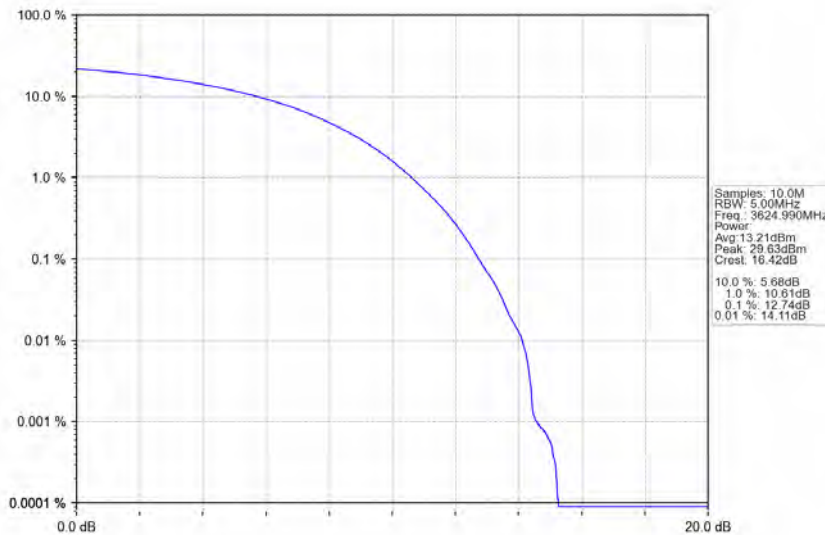
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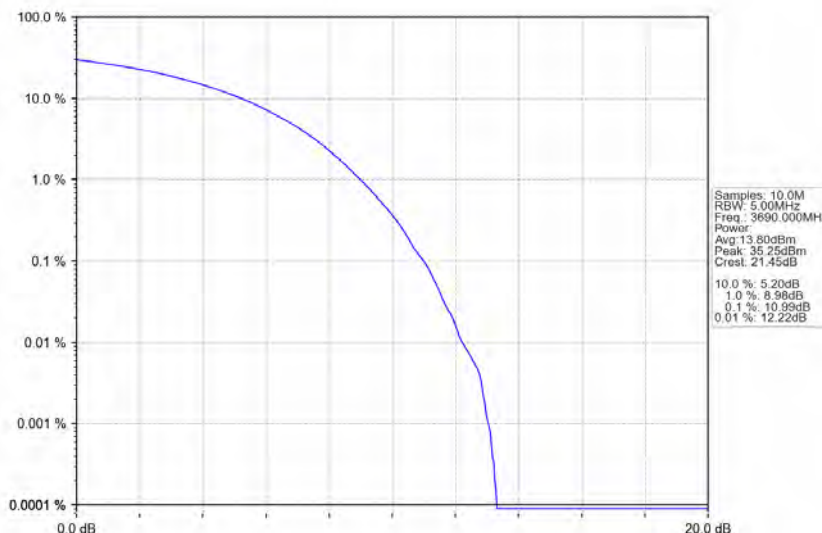
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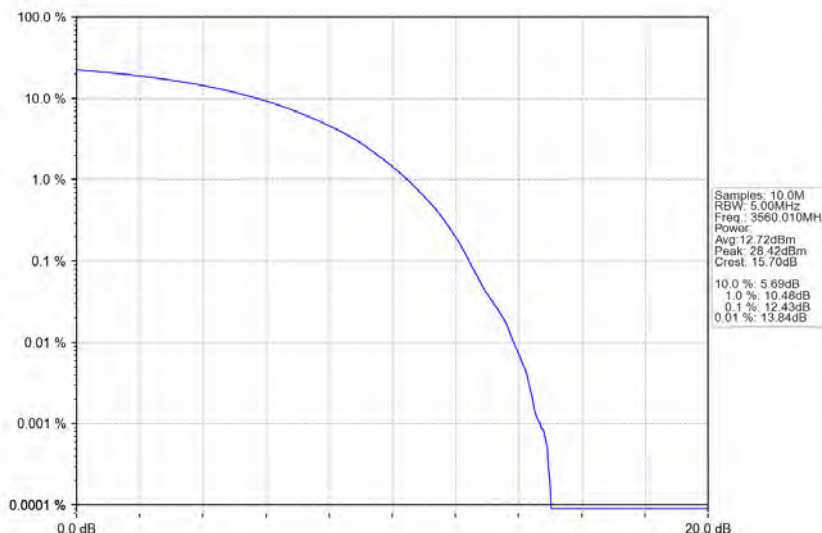
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Outer_Full



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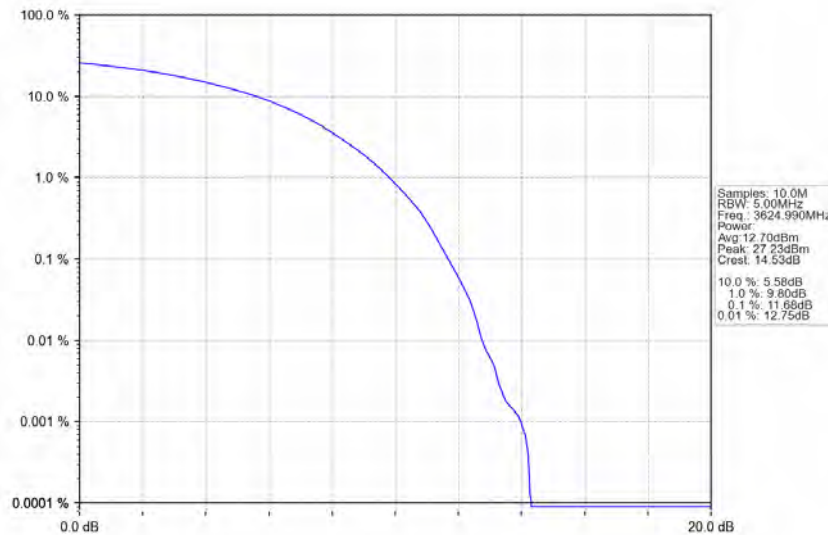
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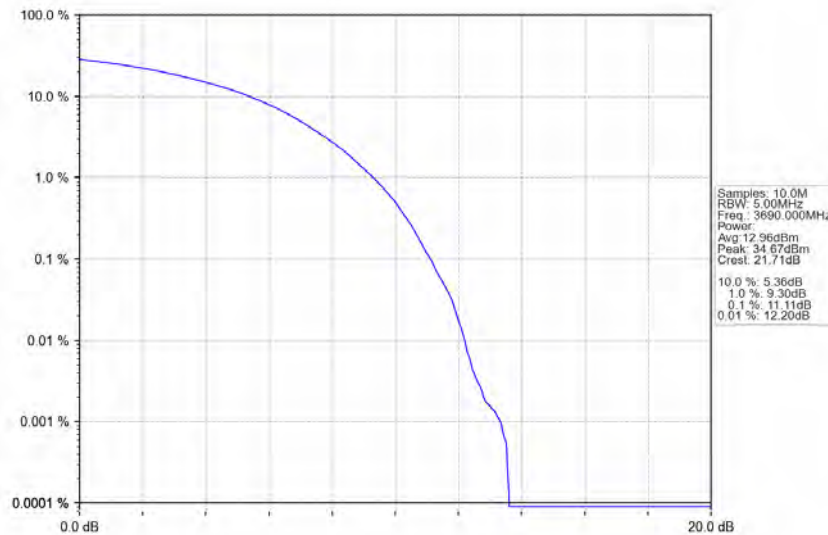
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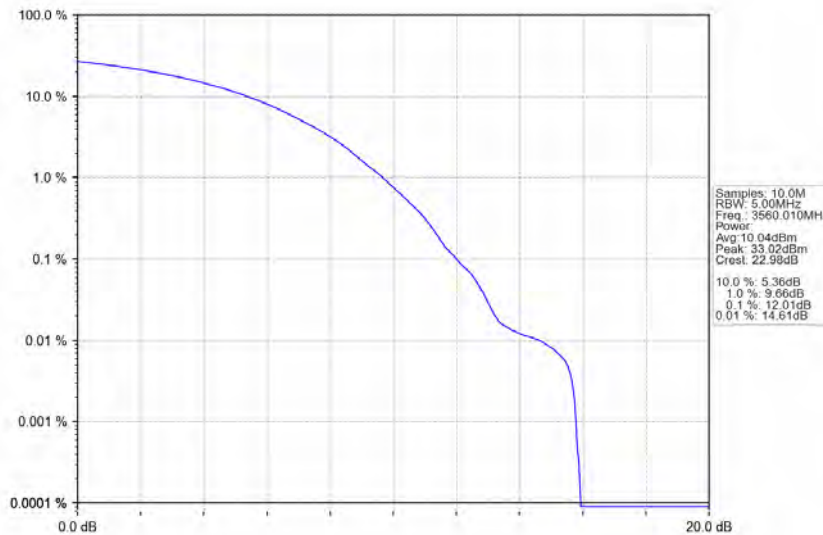
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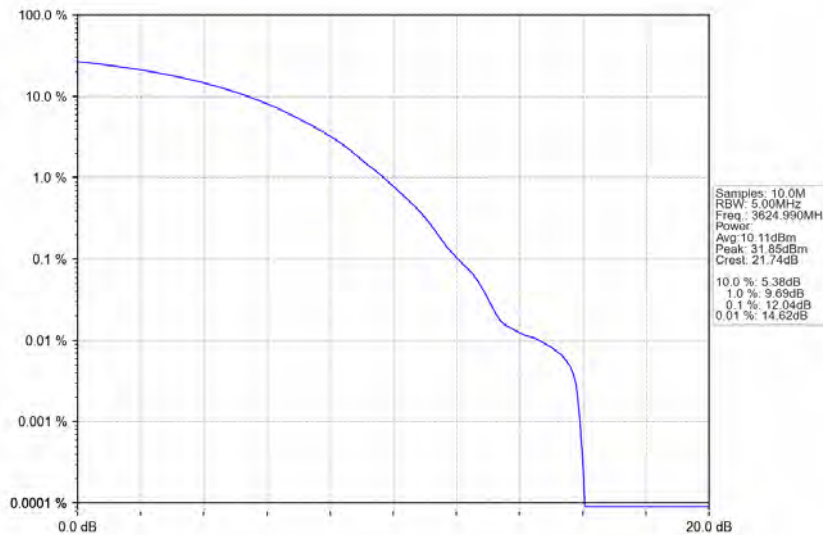
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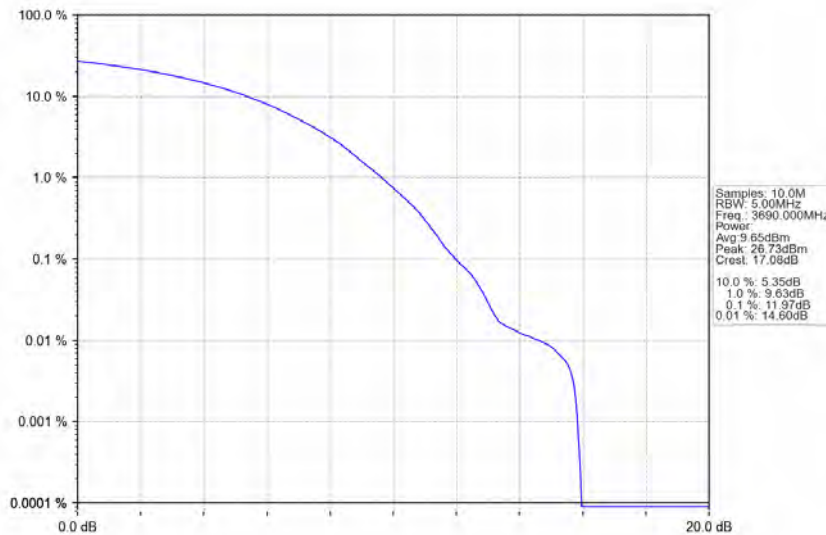


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5.4 30k_MIMO_30MHz_NTNV

5.4.1 Test Result

5G NR n78d SCS=30kHz MIMO 30MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3565.02	Outer_Full	11.74	/	/	<=13	Pass
	3624.99	Outer_Full	11.67	/	/	<=13	Pass
	3684.99	Outer_Full	11.71	/	/	<=13	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	11.35	/	/	<=13	Pass
	3624.99	Outer_Full	11.39	/	/	<=13	Pass
	3684.99	Outer_Full	11.38	/	/	<=13	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	11.42	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3684.99	Outer_Full	11.41	/	/	<=13	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	11.67	/	/	<=13	Pass
	3624.99	Outer_Full	11.67	/	/	<=13	Pass
	3684.99	Outer_Full	11.76	/	/	<=13	Pass

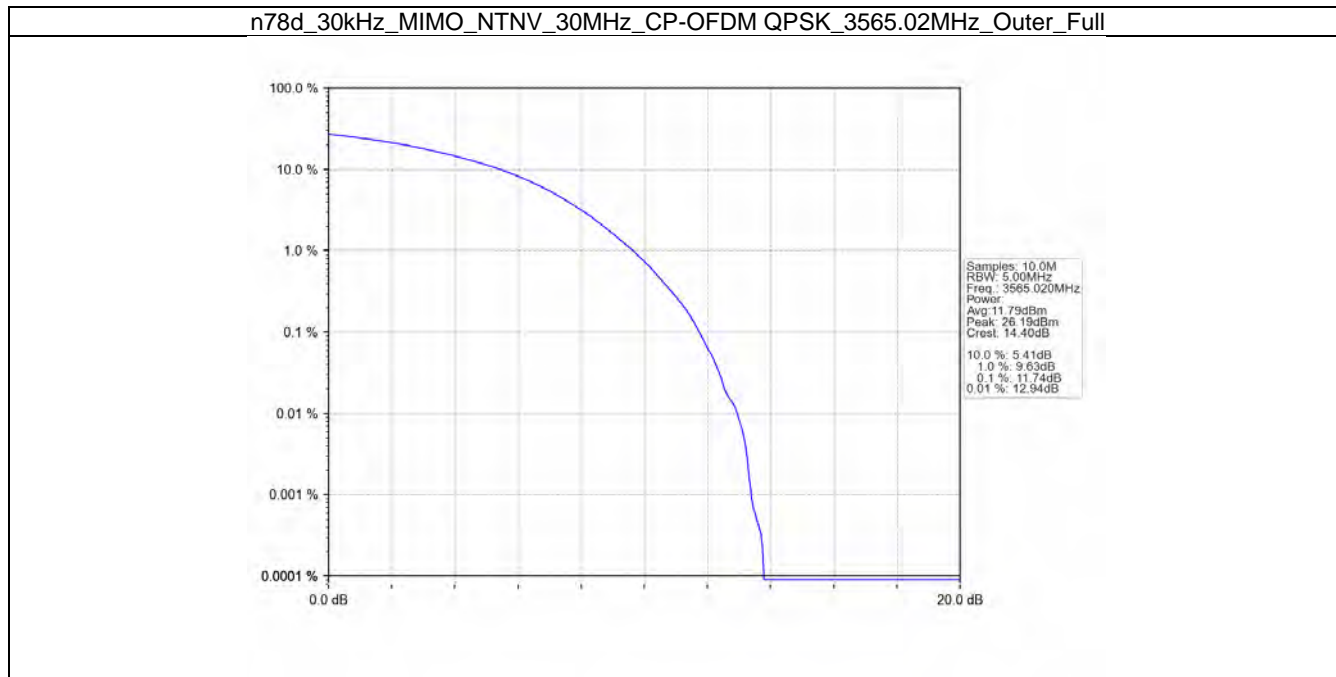


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5.4.2 Test Graph

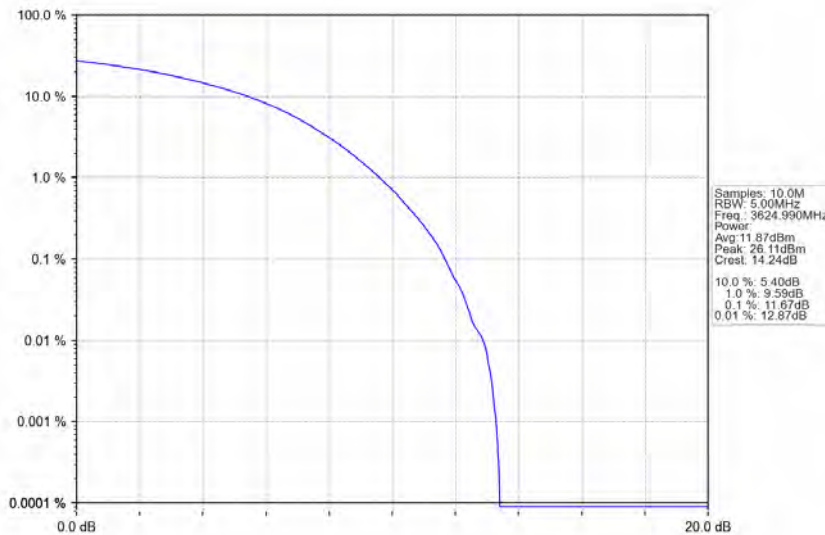


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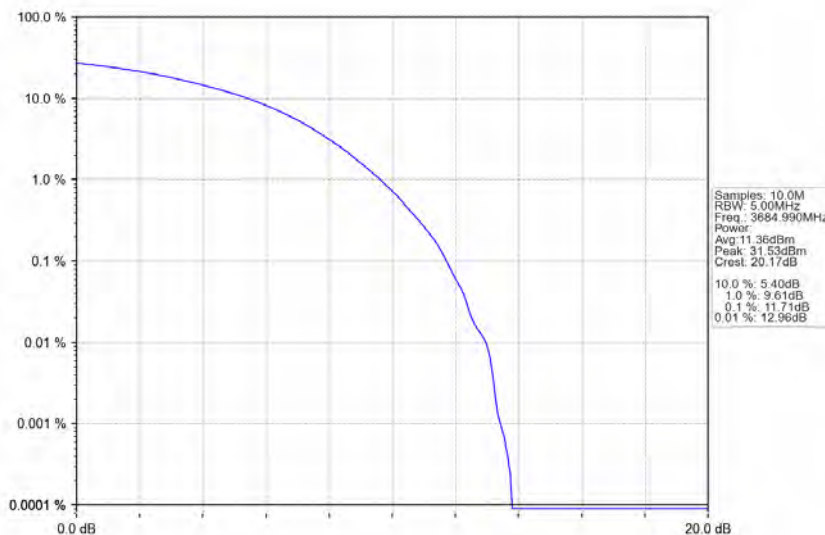
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n78d_30kHz_MIMO_NTNV_30MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_30MHz_CP-OFDM QPSK_3684.99MHz_Outer_Full



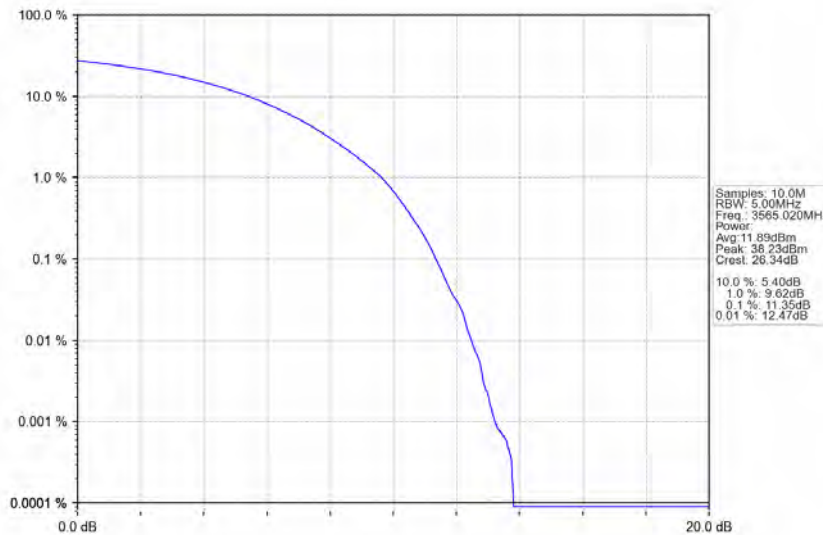
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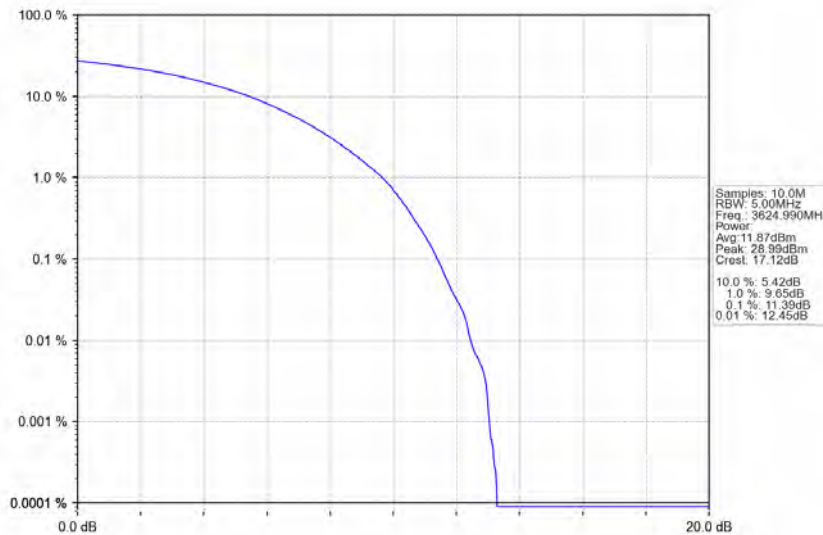
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n78d_30kHz_MIMO_NTNV_30MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



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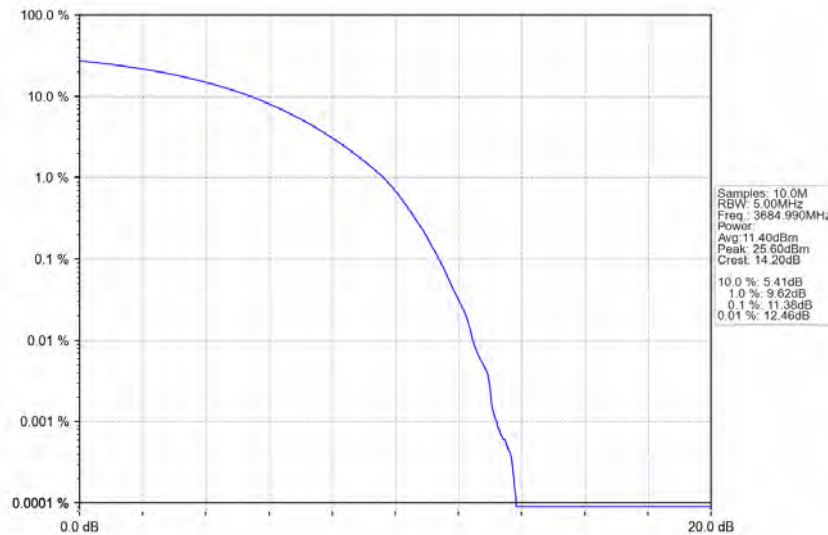
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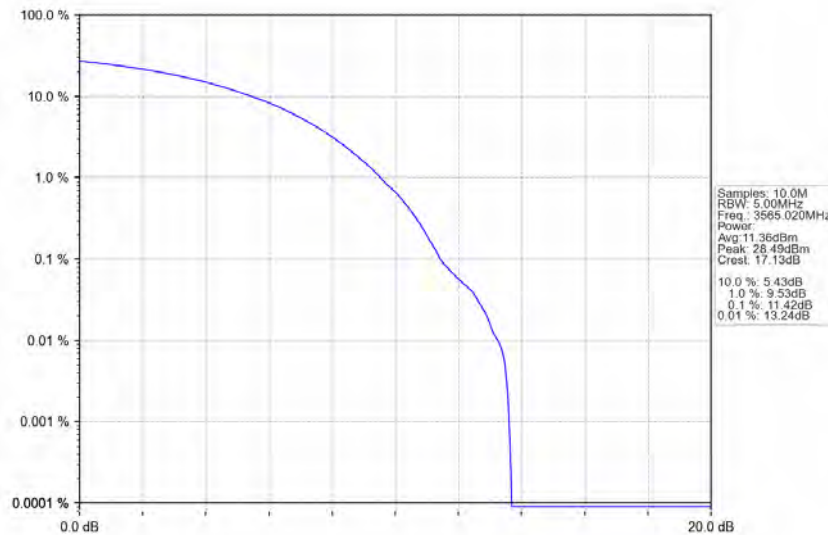
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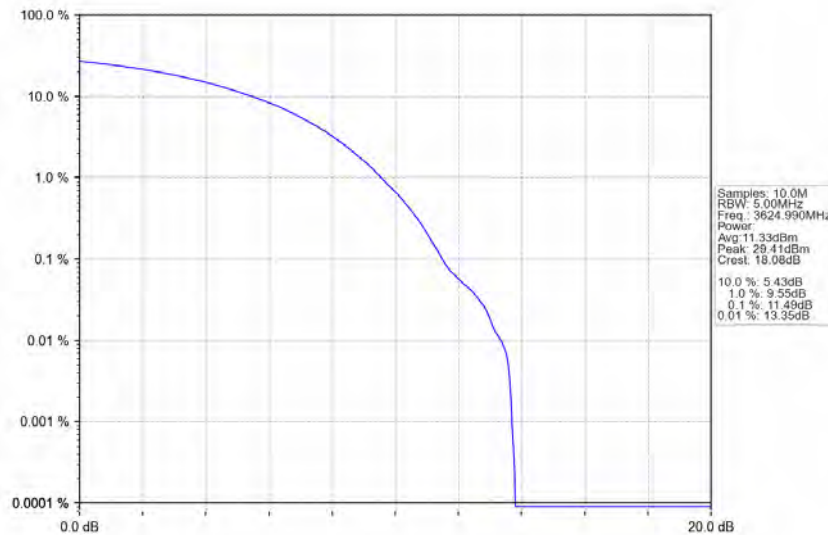
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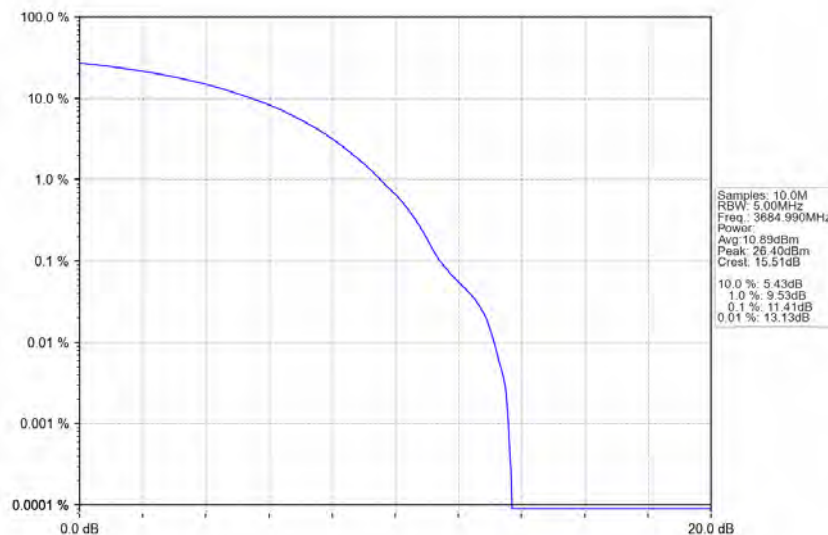
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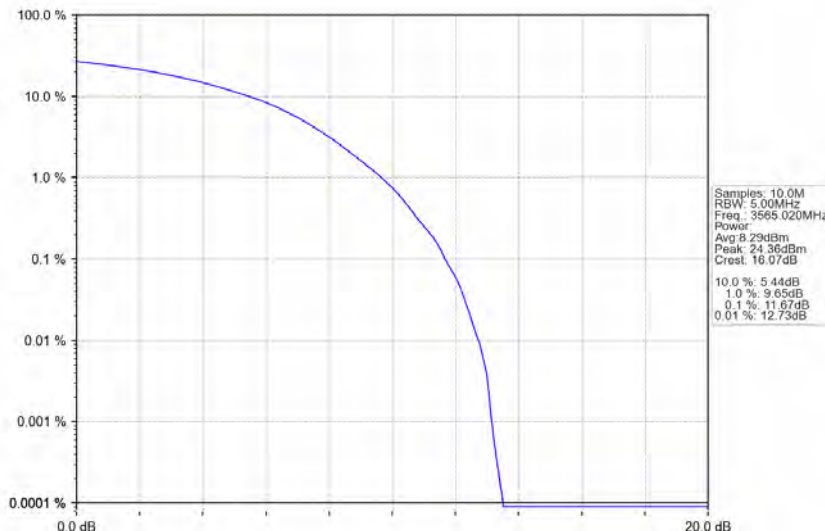
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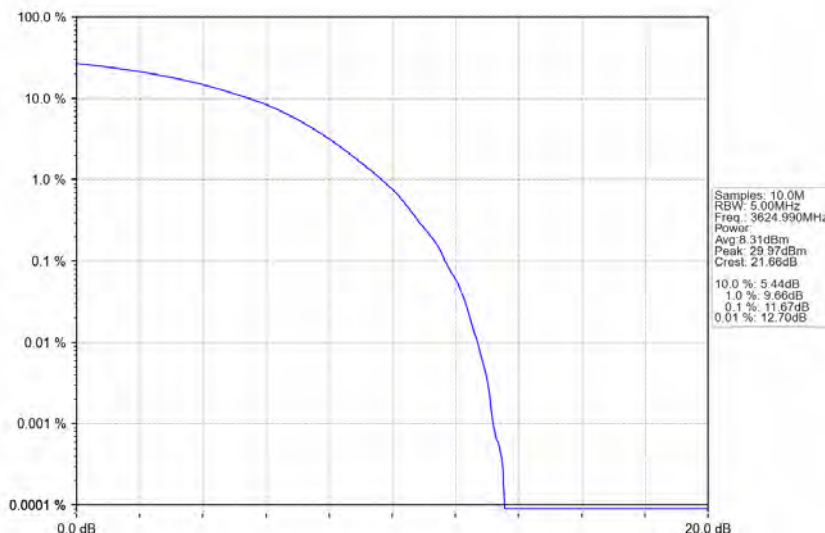
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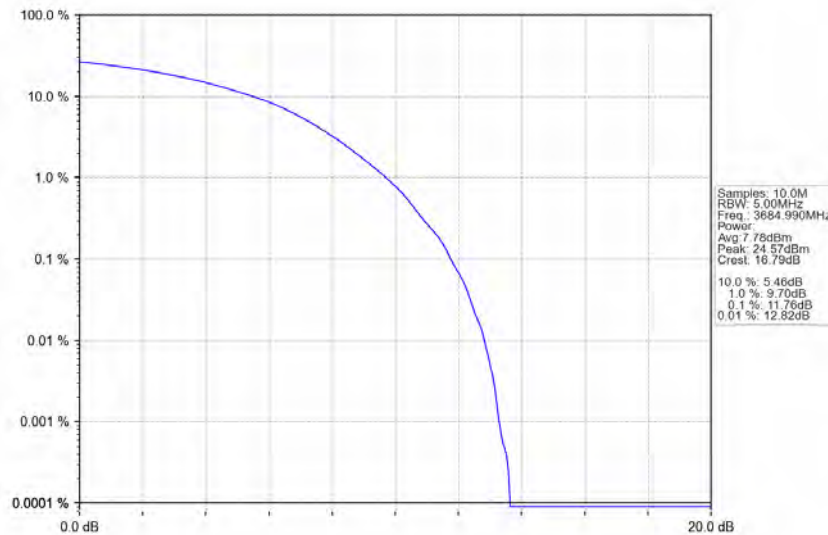
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5.5 30k_MIMO_40MHz_NTNV

5.5.1 Test Result

5G NR n78d SCS=30kHz MIMO 40MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Outer_Full	11.46	/	/	<=13	Pass
	3624.99	Outer_Full	11.44	/	/	<=13	Pass
	3679.98	Outer_Full	11.40	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.54	/	/	<=13	Pass
	3624.99	Outer_Full	11.50	/	/	<=13	Pass
	3679.98	Outer_Full	11.56	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.43	/	/	<=13	Pass
	3624.99	Outer_Full	11.65	/	/	<=13	Pass
	3679.98	Outer_Full	11.51	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.81	/	/	<=13	Pass
	3624.99	Outer_Full	11.76	/	/	<=13	Pass
	3679.98	Outer_Full	11.72	/	/	<=13	Pass

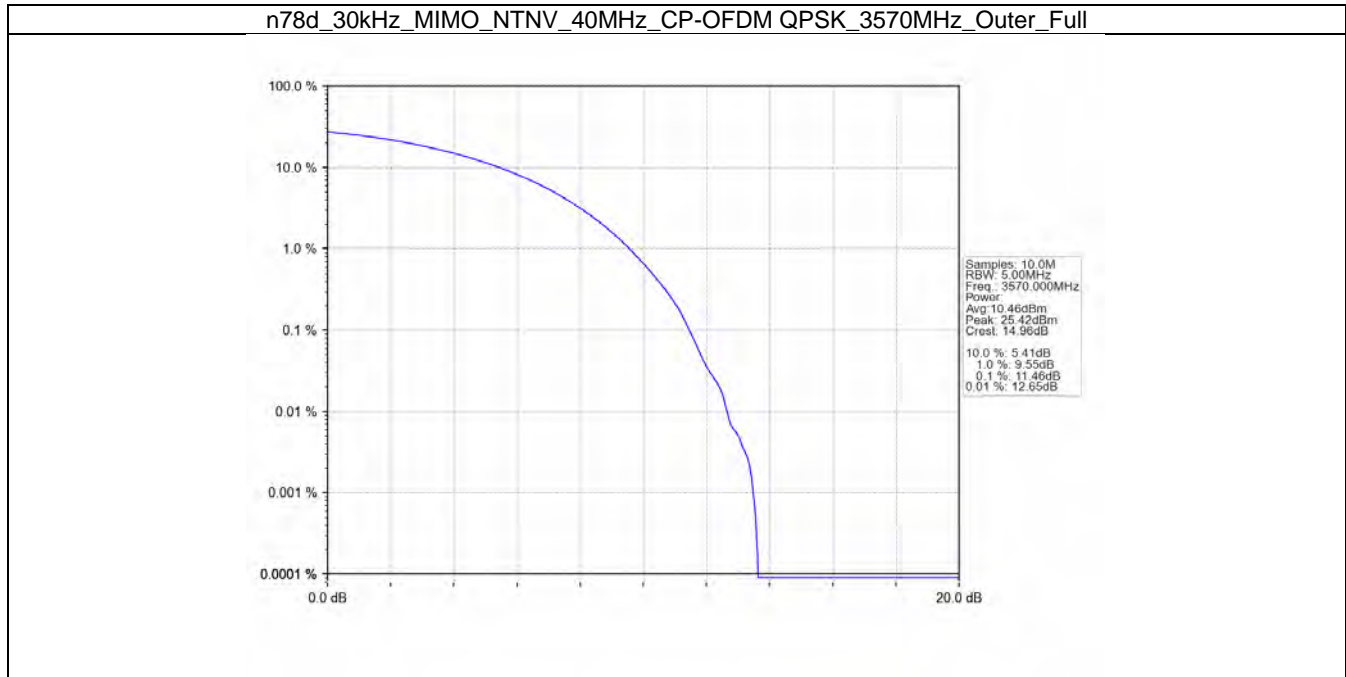


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5.5.2 Test Graph



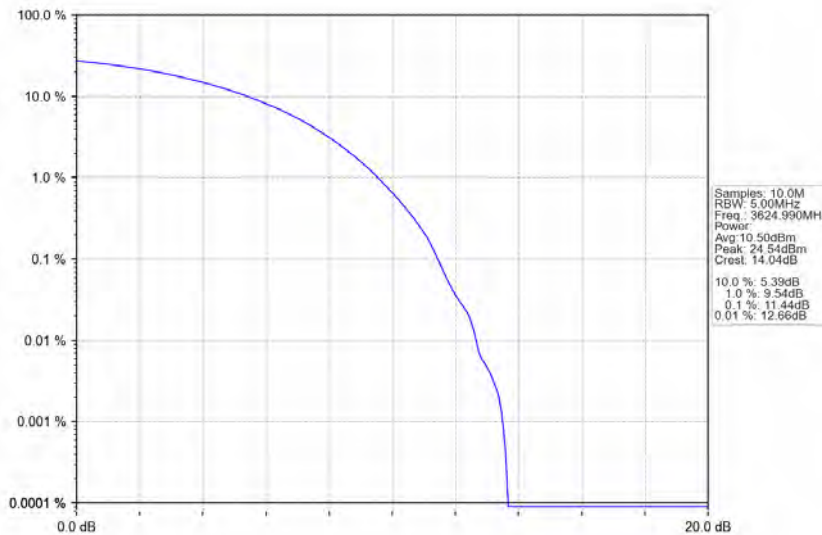
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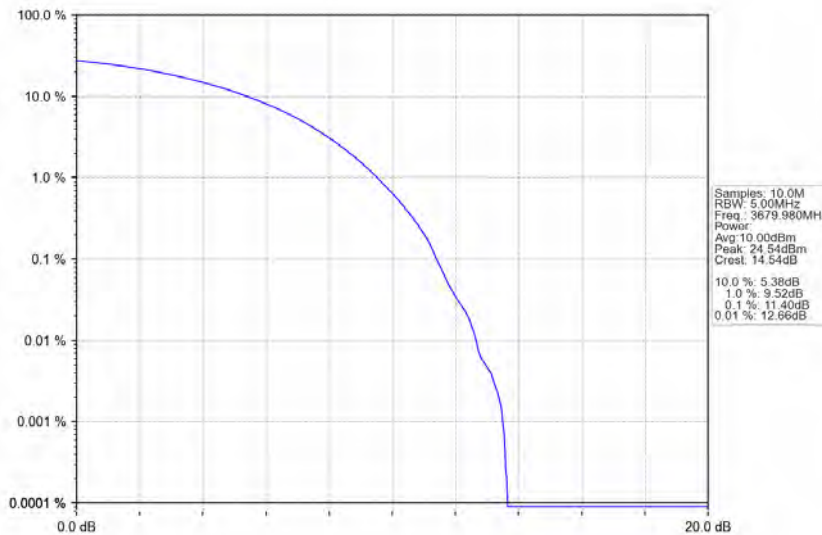
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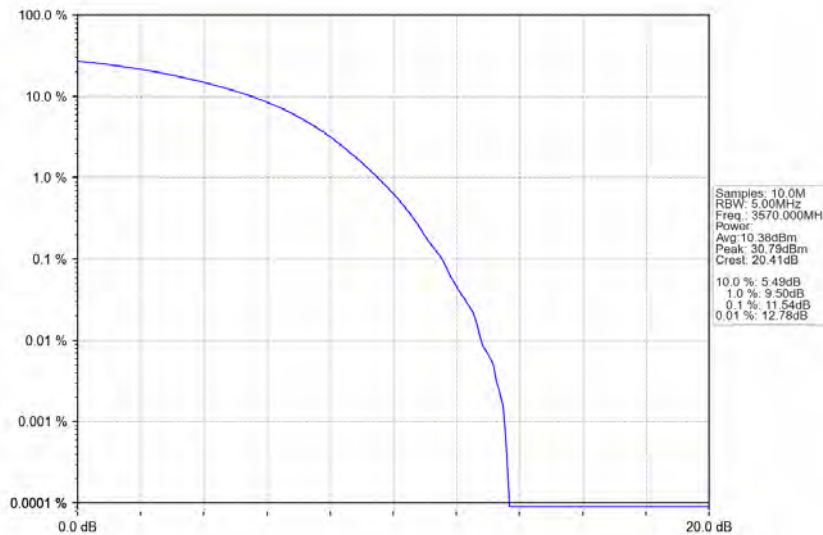
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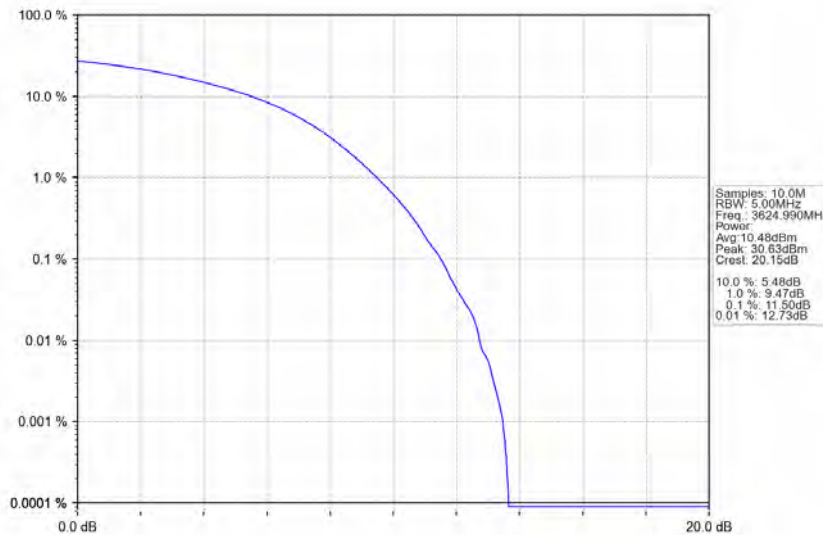
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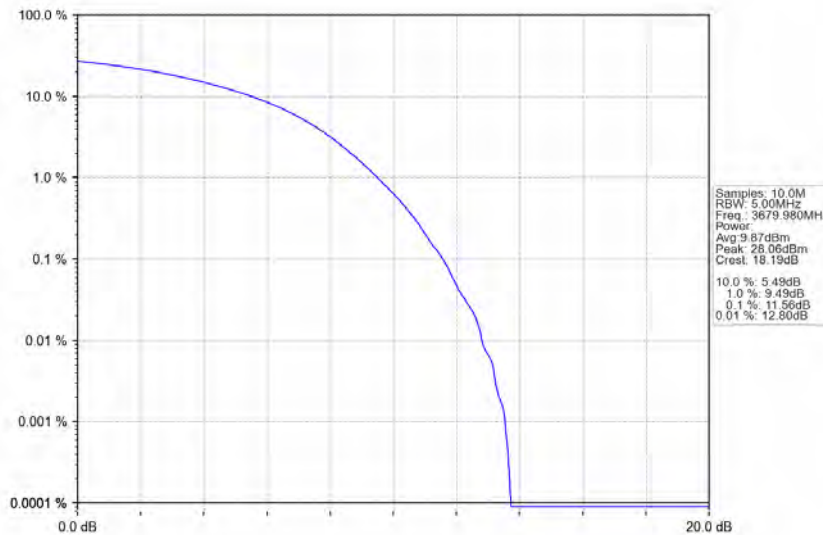
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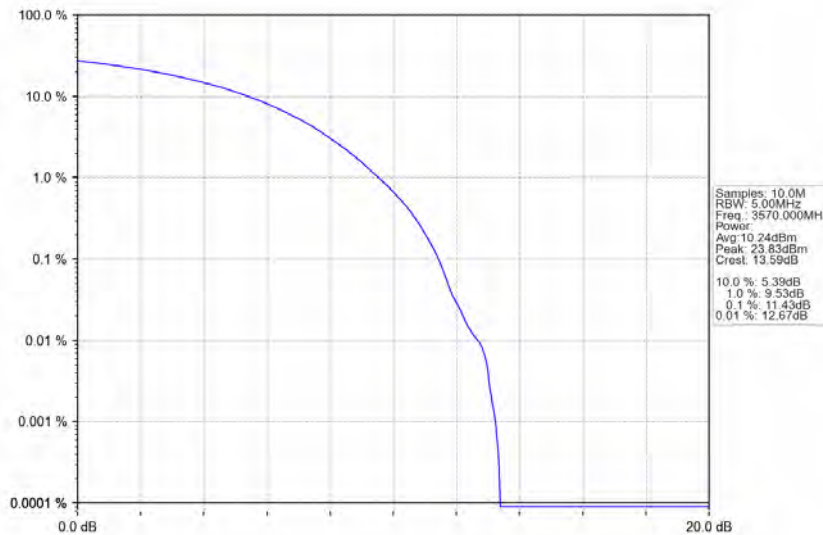
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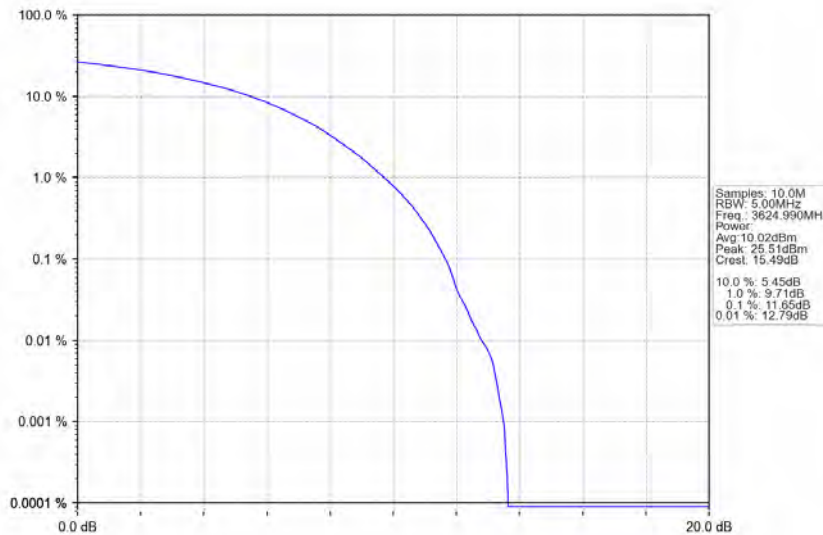
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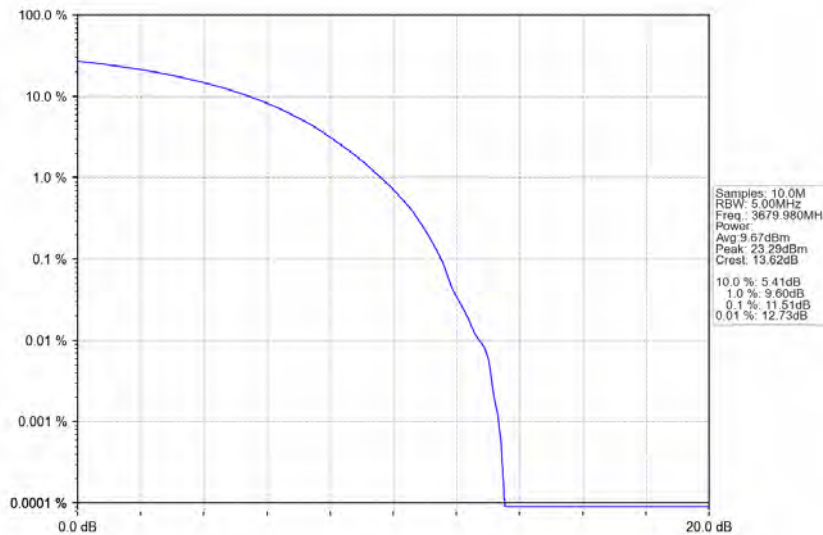
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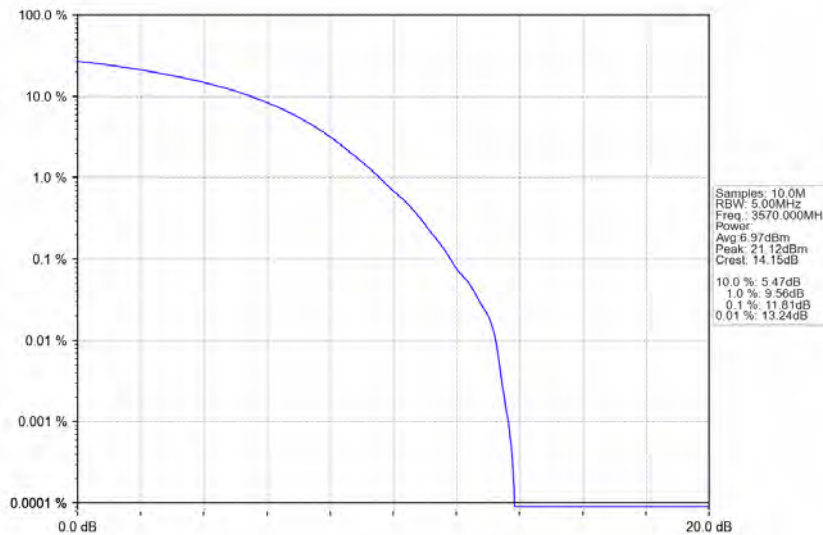
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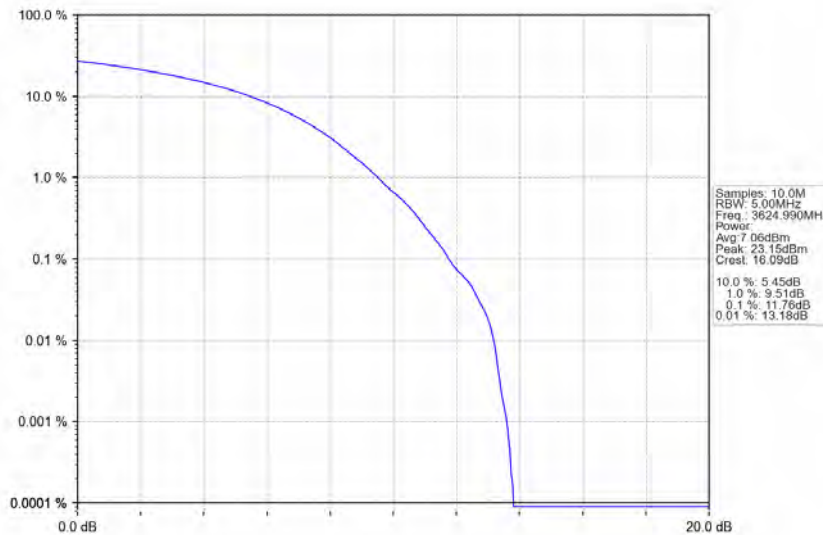
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3570MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



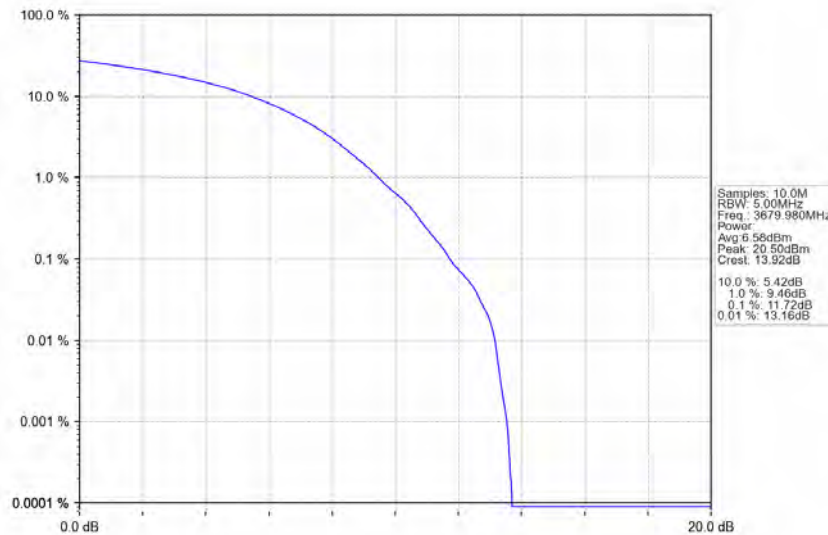
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Outer_Full



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5.6 30k_MIMO_50MHz_NTNV

5.6.1 Test Result

5G NR n78d SCS=30kHz MIMO 50MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3575.01	Outer_Full	11.85	/	/	<=13	Pass
	3624.99	Outer_Full	11.83	/	/	<=13	Pass
	3675	Outer_Full	11.68	/	/	<=13	Pass
CP-OFDM 16 QAM	3575.01	Outer_Full	11.58	/	/	<=13	Pass
	3624.99	Outer_Full	11.67	/	/	<=13	Pass
	3675	Outer_Full	11.63	/	/	<=13	Pass
CP-OFDM 64 QAM	3575.01	Outer_Full	11.94	/	/	<=13	Pass
	3624.99	Outer_Full	11.99	/	/	<=13	Pass
	3675	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 256 QAM	3575.01	Outer_Full	12.00	/	/	<=13	Pass
	3624.99	Outer_Full	11.97	/	/	<=13	Pass
	3675	Outer_Full	12.03	/	/	<=13	Pass

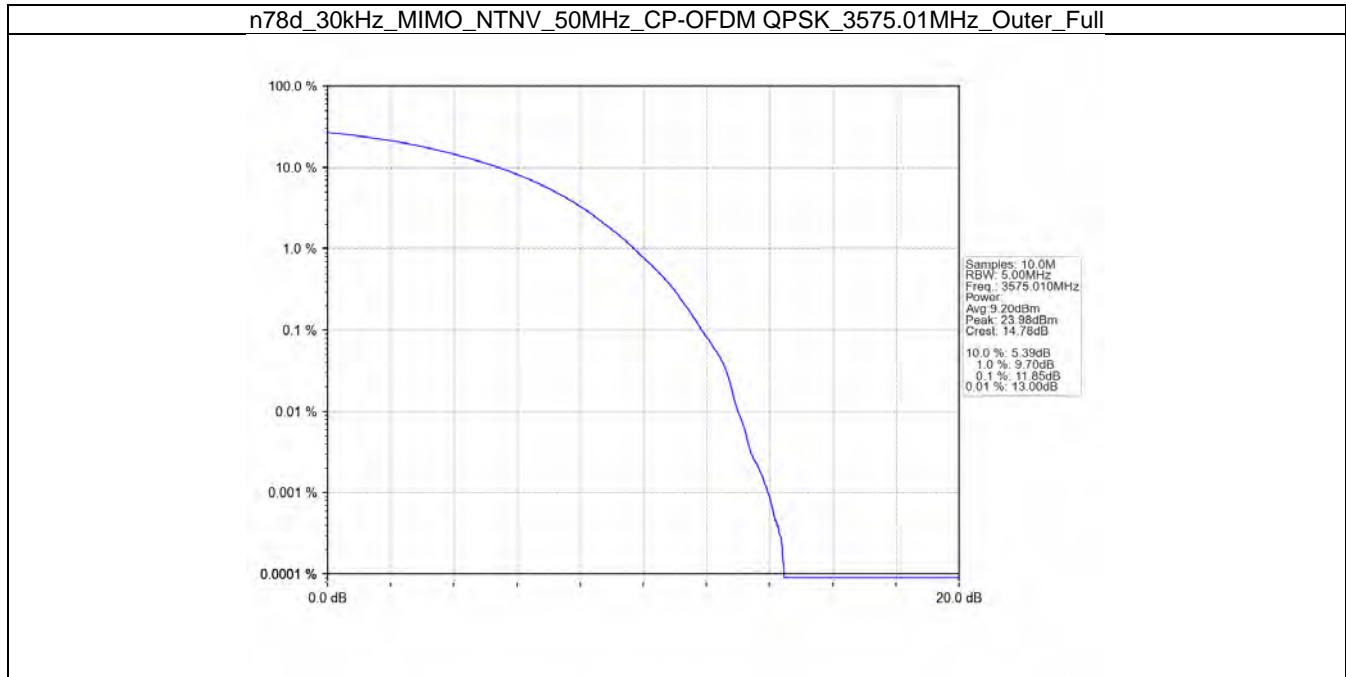


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5.6.2 Test Graph



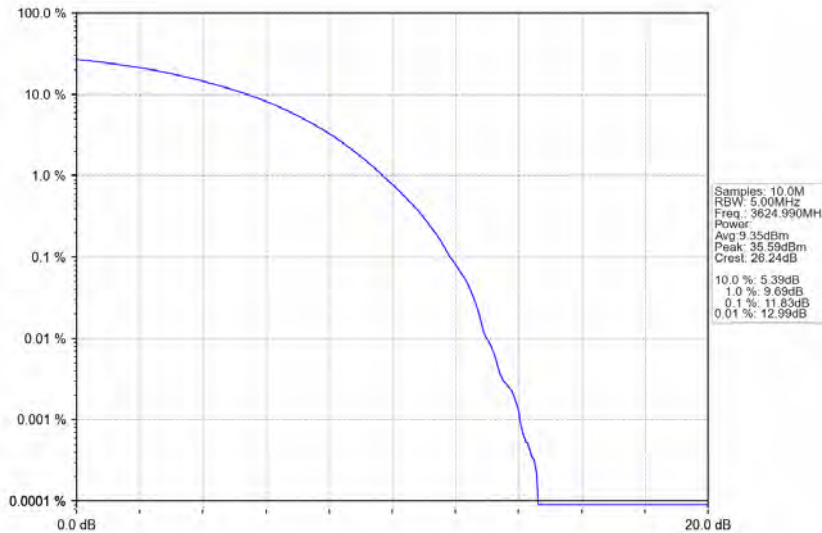
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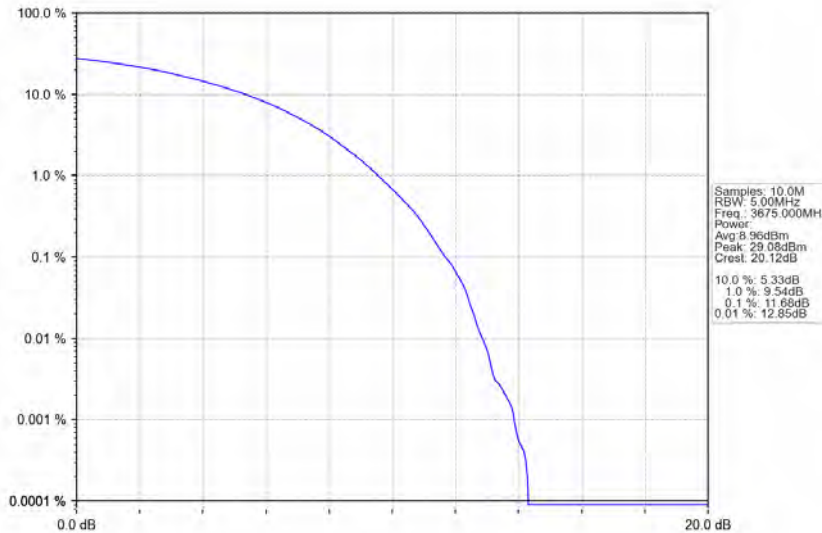
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM QPSK_3675MHz_Outer_Full



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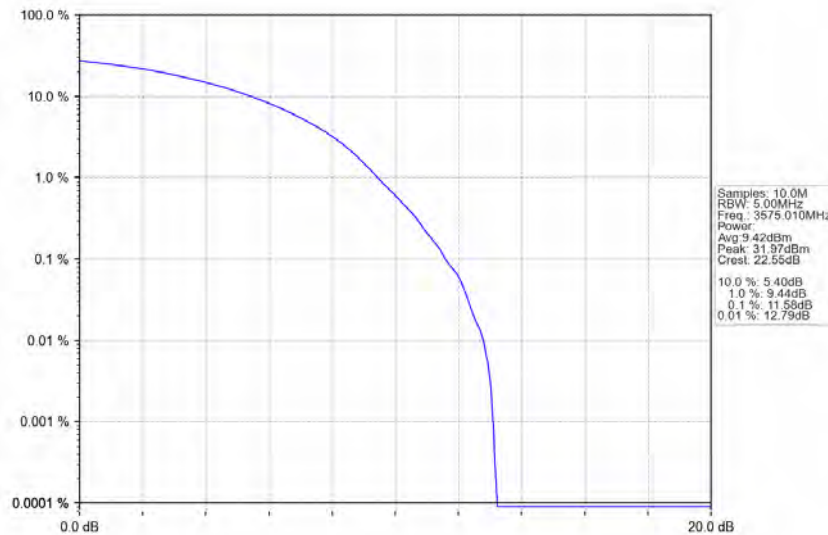
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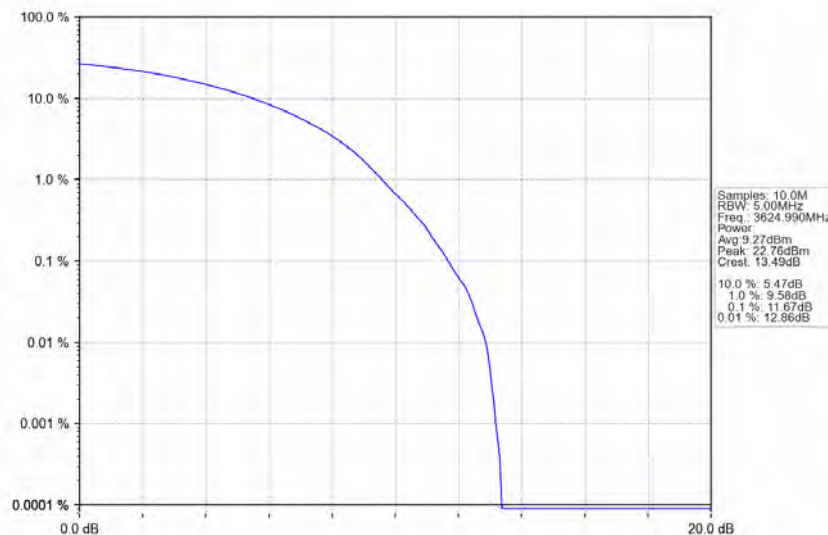
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM_16_QAM_3575.01MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



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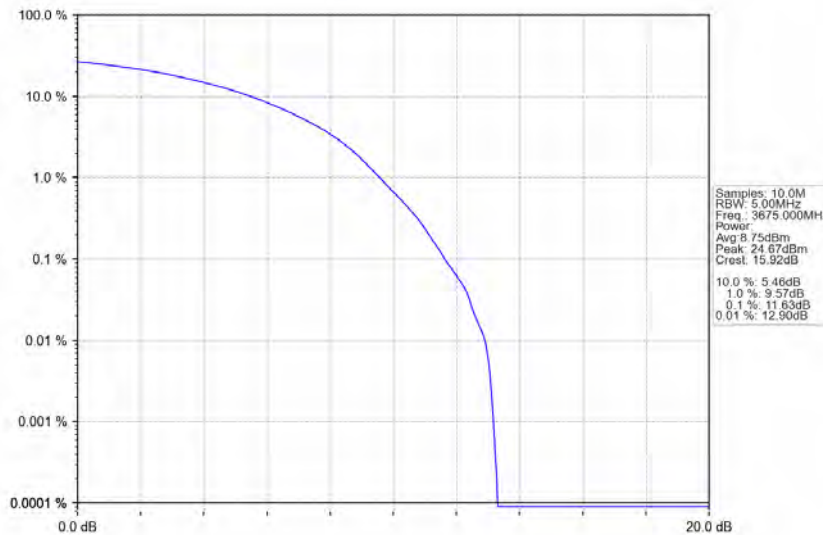
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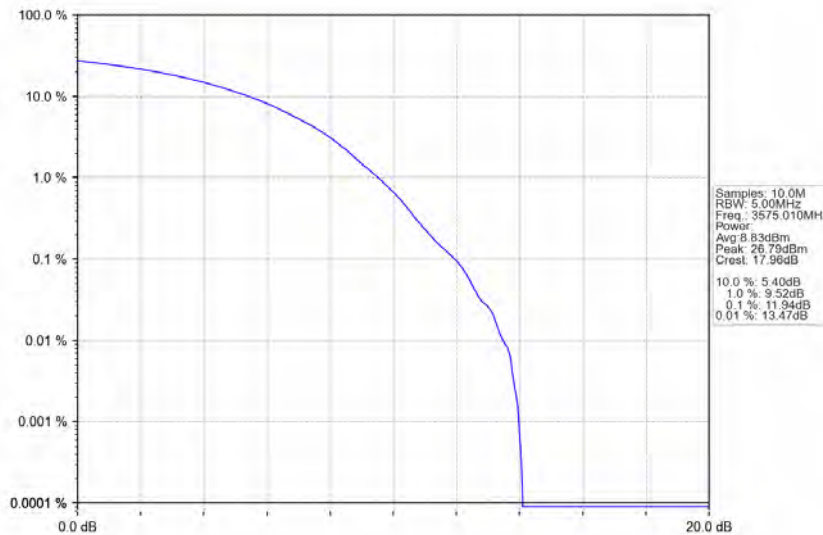


Compliance Certification Services (Kunshan) Inc.
 EMC Laboratory

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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 64 QAM_3575.01MHz_Outer_Full



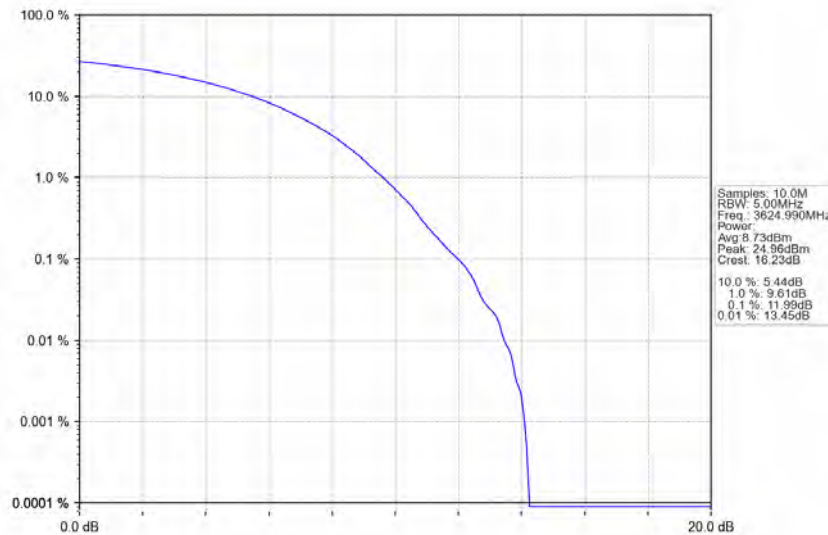
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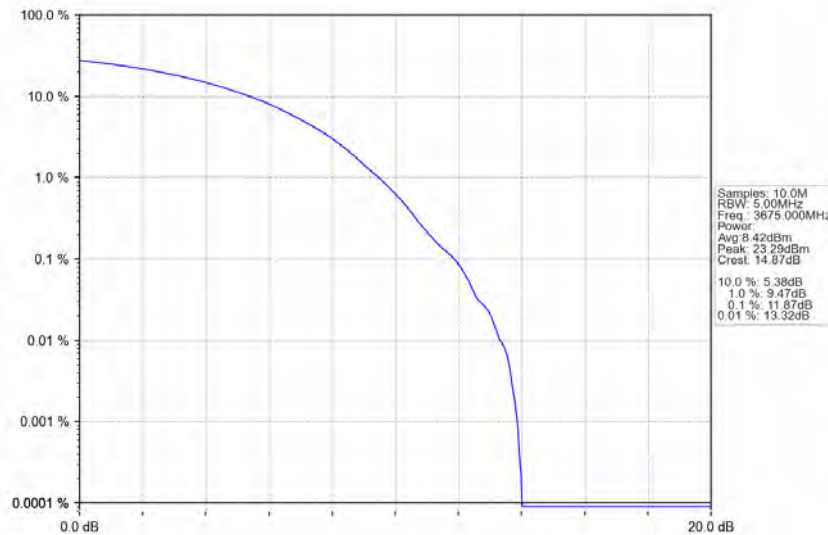
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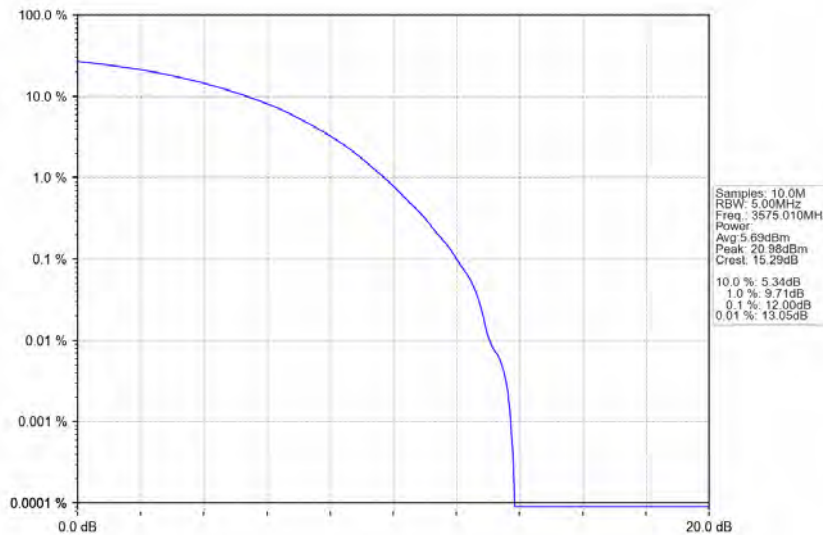


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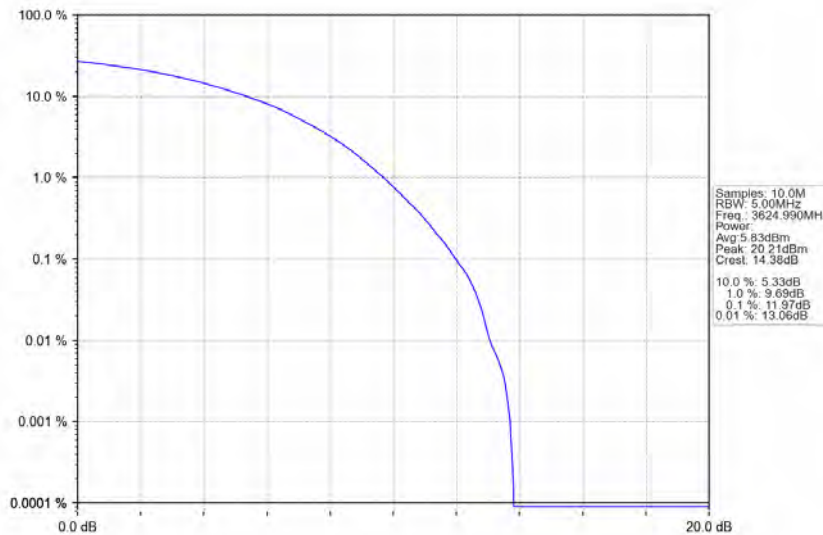
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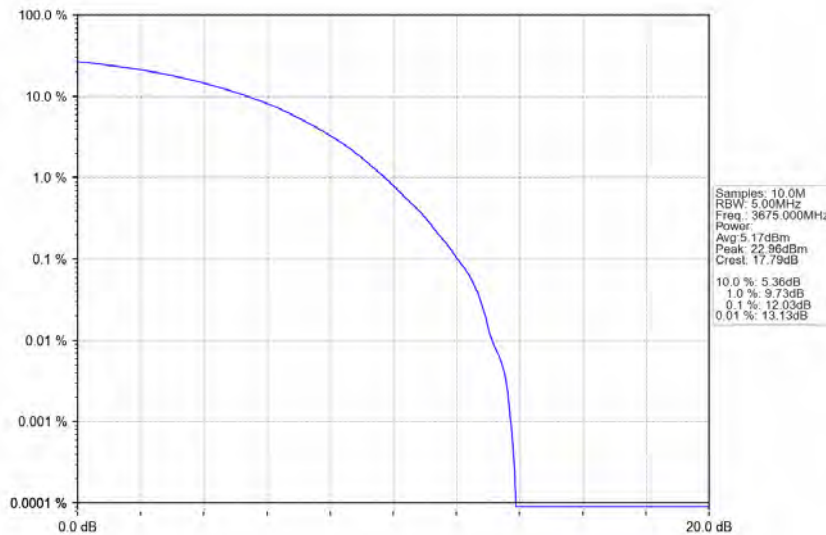
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5.7 30k_MIMO_60MHz_NTNV

5.7.1 Test Result

5G NR n78d SCS=30kHz MIMO 60MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3580.02	Outer_Full	11.39	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3669.99	Outer_Full	11.54	/	/	<=13	Pass
CP-OFDM 16 QAM	3580.02	Outer_Full	11.74	/	/	<=13	Pass
	3624.99	Outer_Full	11.99	/	/	<=13	Pass
	3669.99	Outer_Full	11.79	/	/	<=13	Pass
CP-OFDM 64 QAM	3580.02	Outer_Full	11.46	/	/	<=13	Pass
	3624.99	Outer_Full	11.21	/	/	<=13	Pass
	3669.99	Outer_Full	11.61	/	/	<=13	Pass
CP-OFDM 256 QAM	3580.02	Outer_Full	11.56	/	/	<=13	Pass
	3624.99	Outer_Full	11.61	/	/	<=13	Pass
	3669.99	Outer_Full	11.73	/	/	<=13	Pass

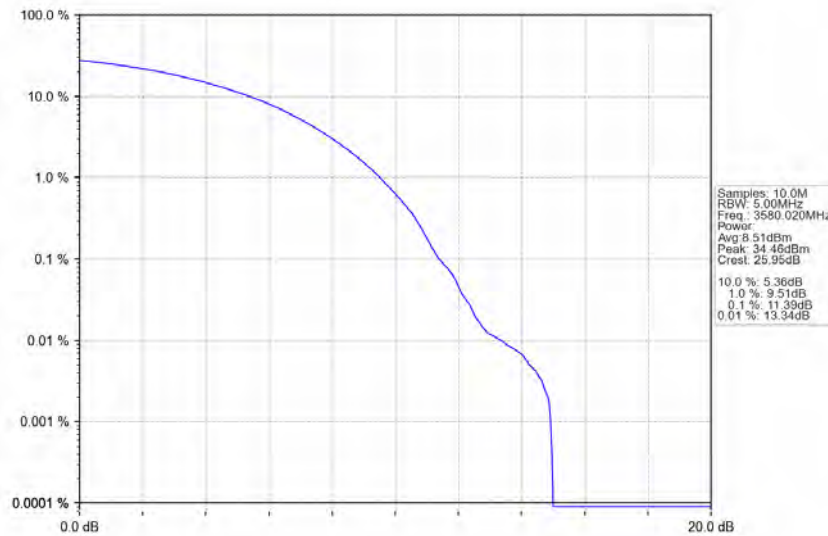


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5.7.2 Test Gn78d_30kHz_MIMO_NTNV_60MHz_CP-OFDM QPSK_3580.02MHz_Outer_Full



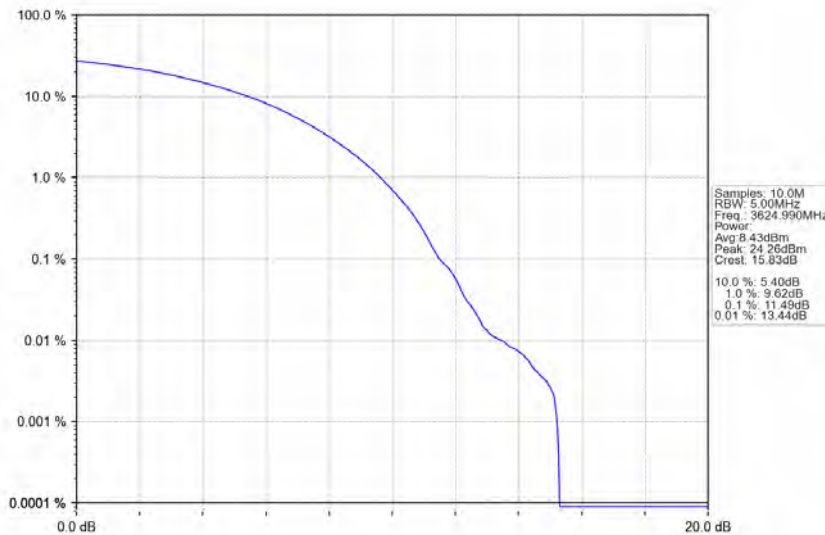
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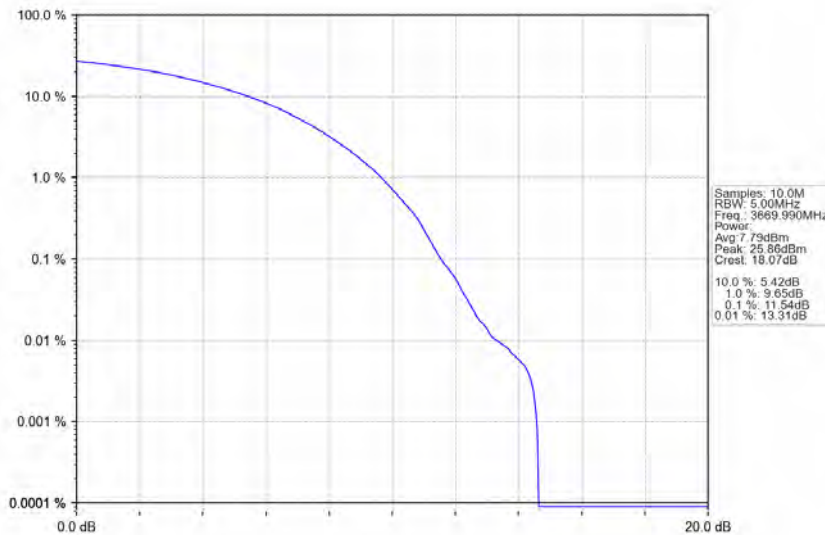
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n78d_30kHz_MIMO_NTNV_60MHz_CP-OFDM QPSK_3669.99MHz_Outer_Full



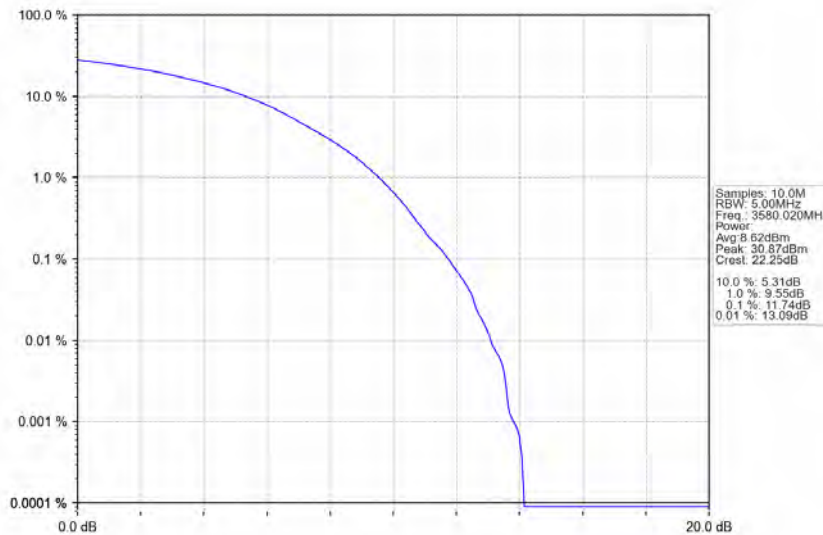
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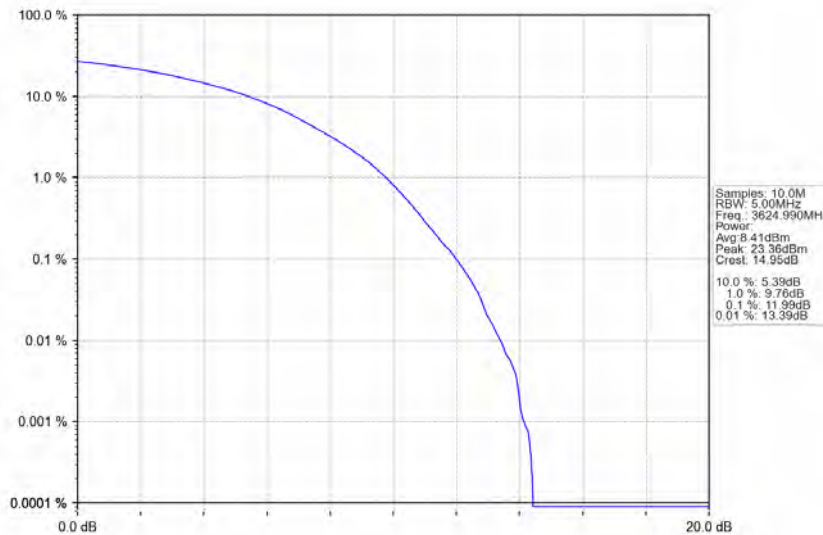
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n78d_30kHz_MIMO_NTNV_60MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



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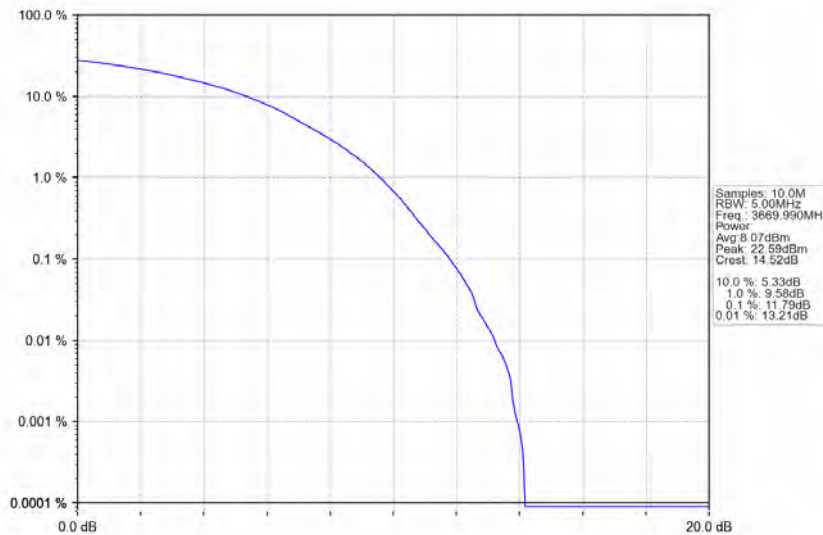
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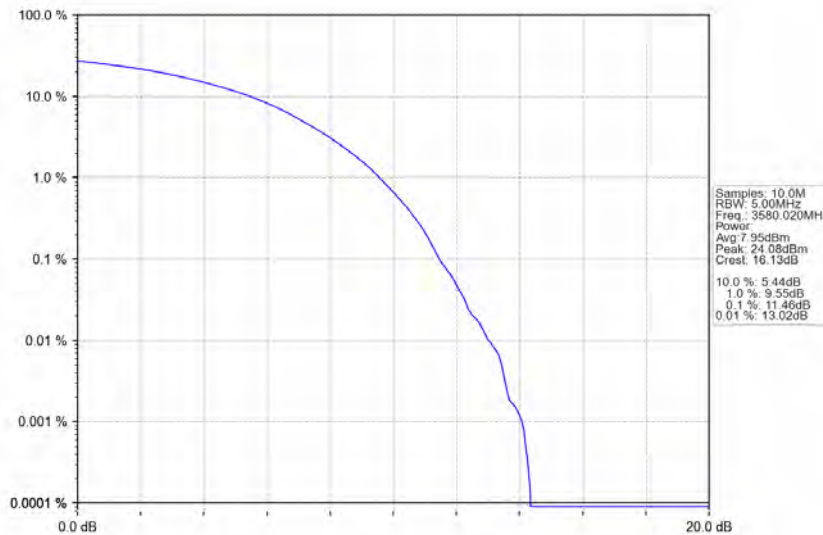
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n78d_30kHz_MIMO_NTNV_60MHz_CP-OFDM 64 QAM_3580.02MHz_Outer_Full



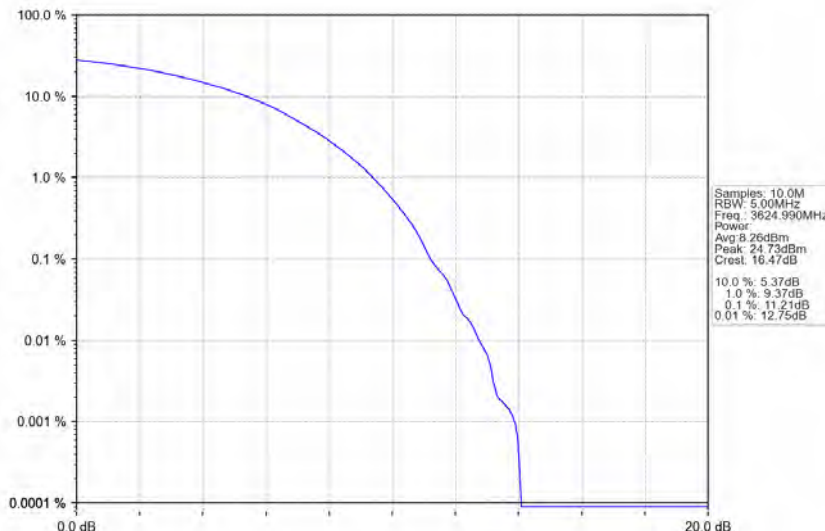
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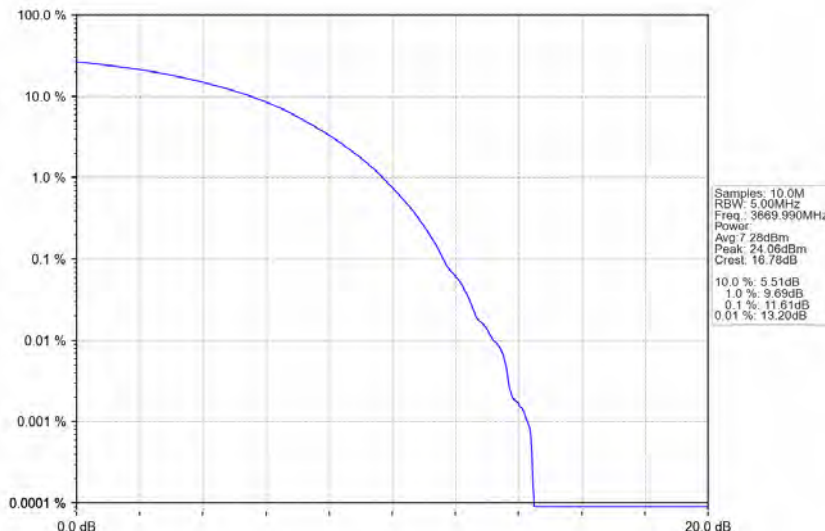
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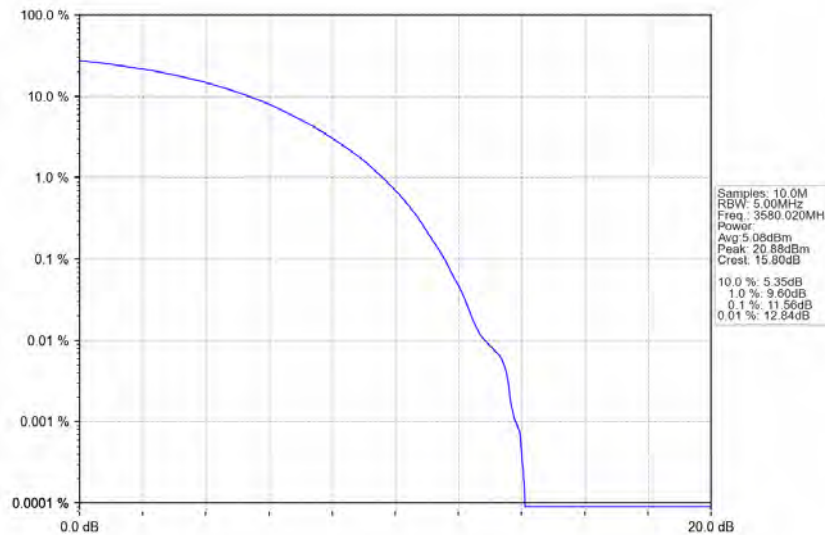


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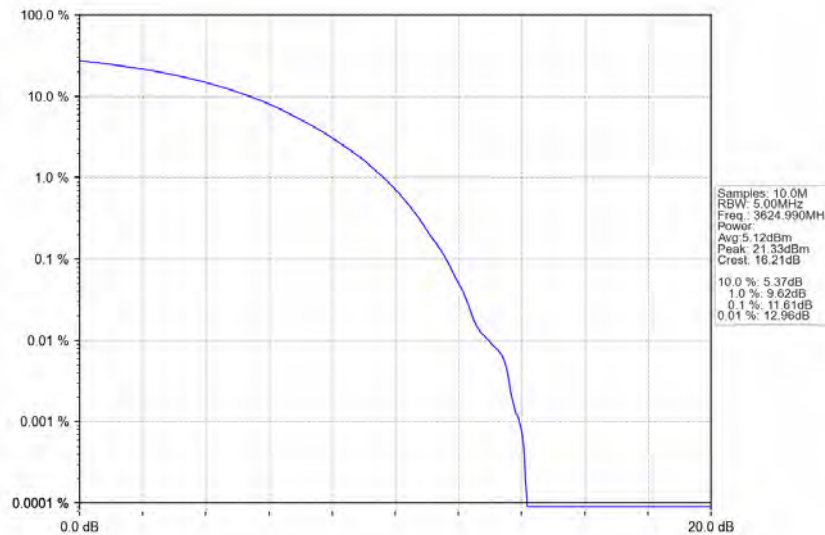
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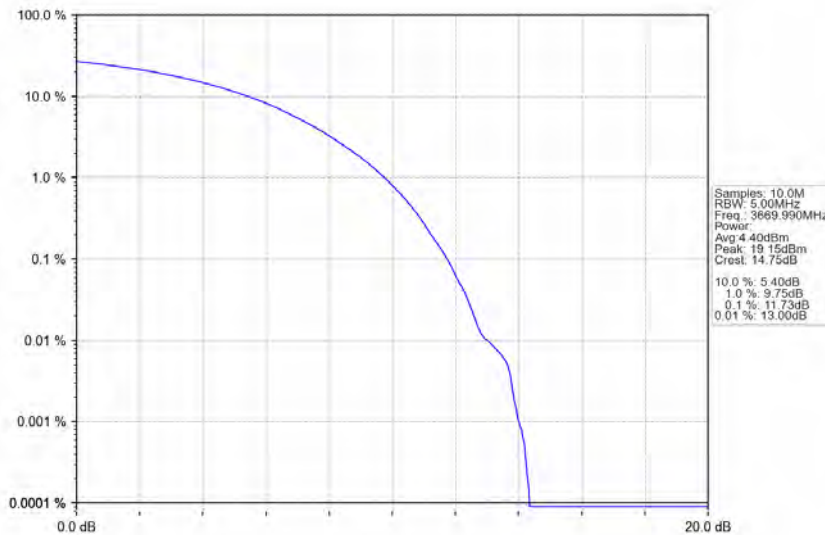
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5.8 30k_MIMO_70MHz_NTNV

5.8.1 Test Result

5G NR n78d SCS=30kHz MIMO 70MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3585	Outer_Full	11.72	/	/	<=13	Pass
	3624.99	Outer_Full	11.59	/	/	<=13	Pass
	3664.98	Outer_Full	11.60	/	/	<=13	Pass
CP-OFDM 16 QAM	3585	Outer_Full	11.52	/	/	<=13	Pass
	3624.99	Outer_Full	11.69	/	/	<=13	Pass
	3664.98	Outer_Full	11.54	/	/	<=13	Pass
CP-OFDM 64 QAM	3585	Outer_Full	11.69	/	/	<=13	Pass
	3624.99	Outer_Full	11.67	/	/	<=13	Pass
	3664.98	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 256 QAM	3585	Outer_Full	12.01	/	/	<=13	Pass
	3624.99	Outer_Full	12.06	/	/	<=13	Pass
	3664.98	Outer_Full	12.04	/	/	<=13	Pass

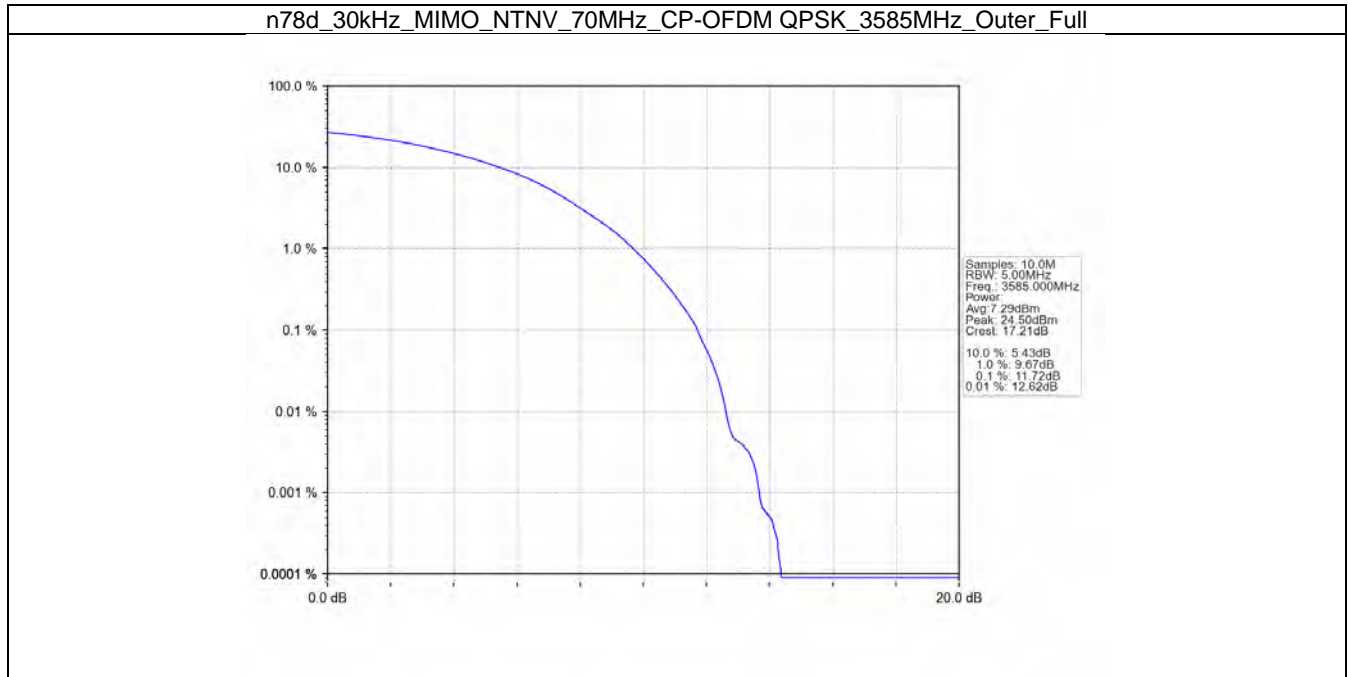


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5.8.2 Test Graph



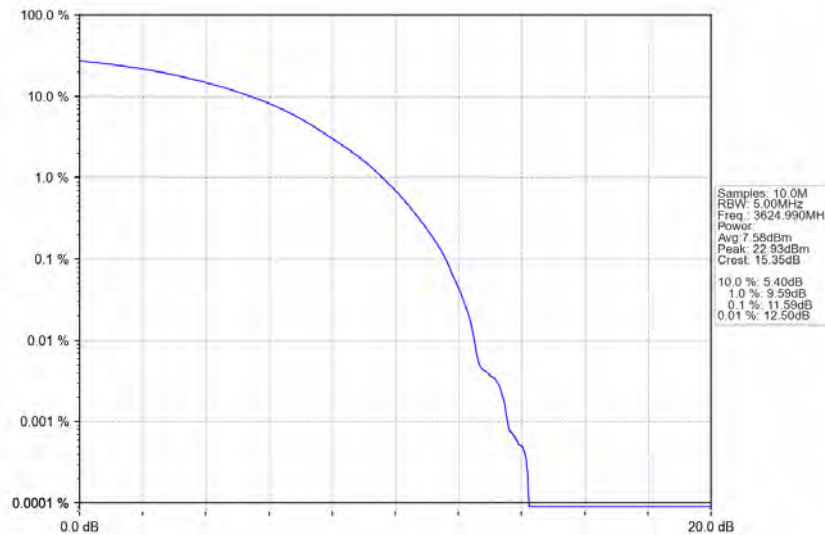
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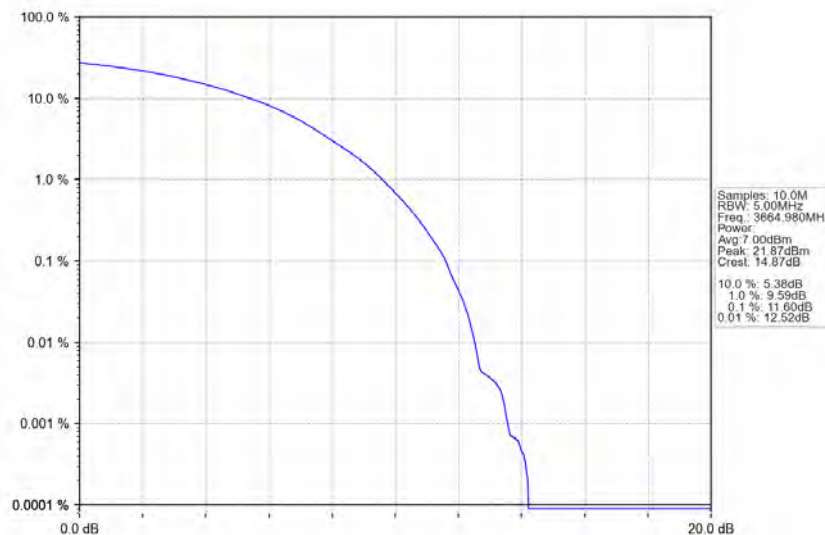
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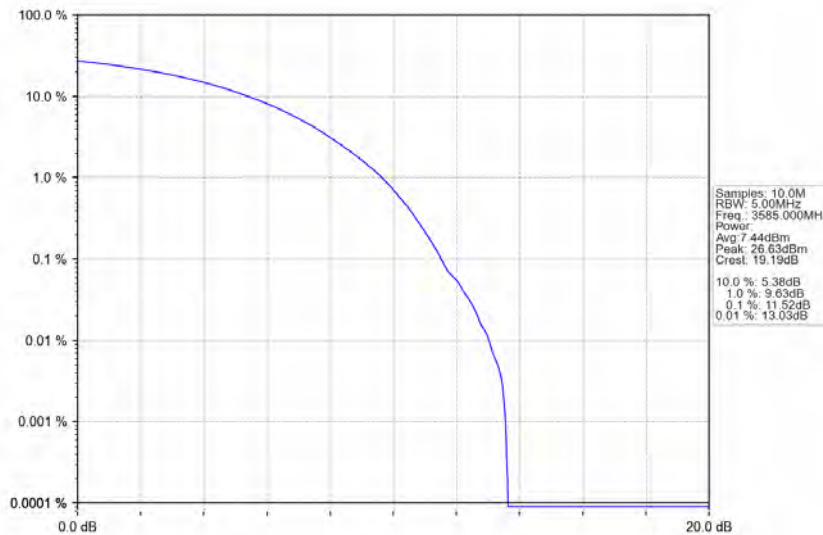
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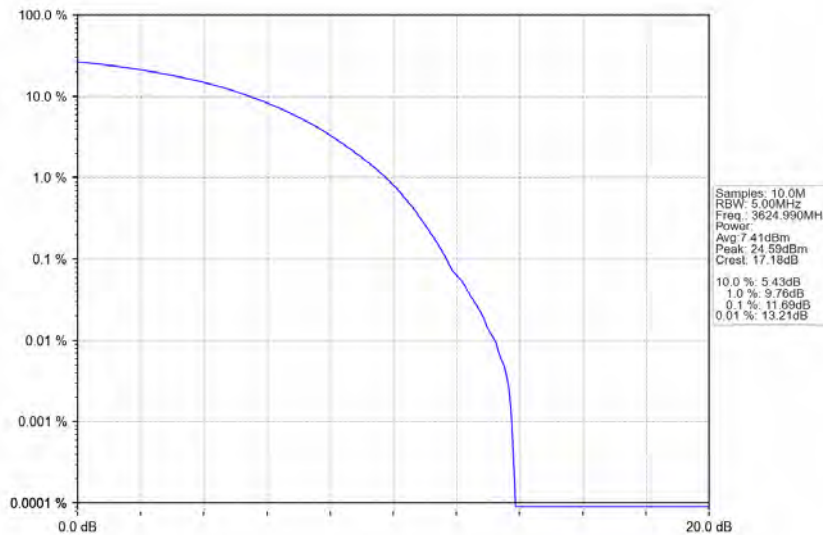
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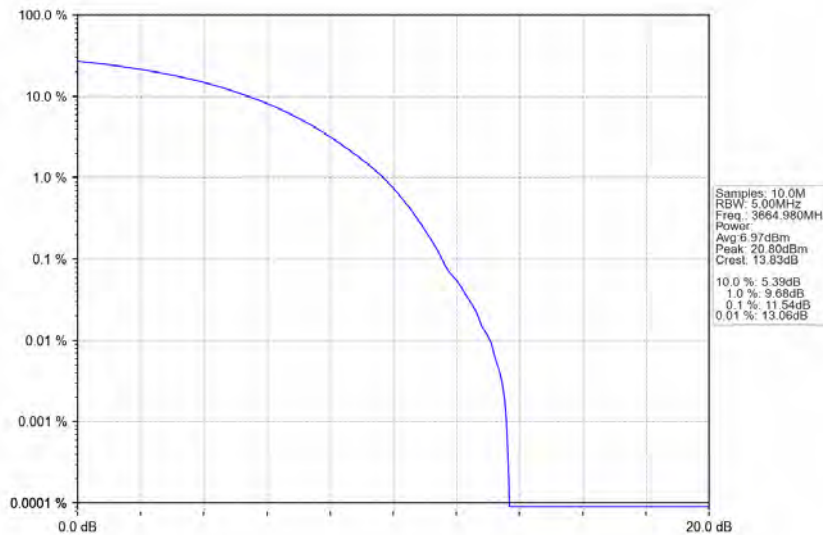
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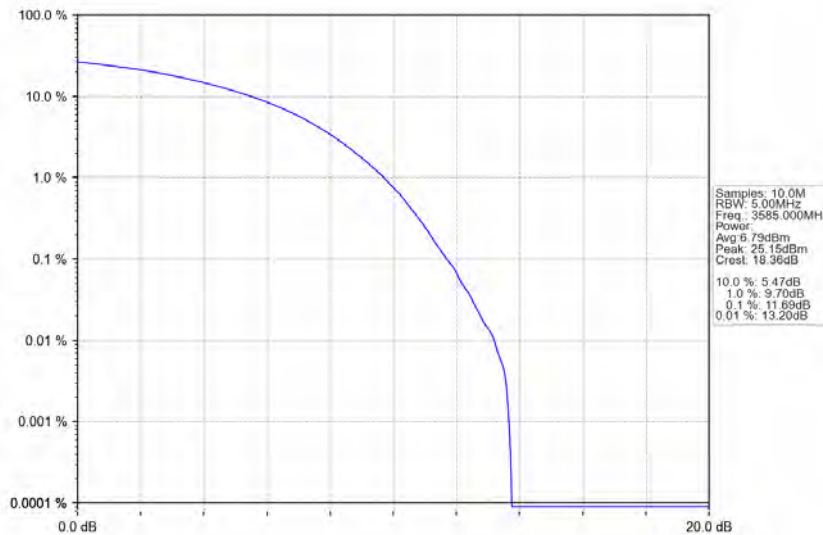
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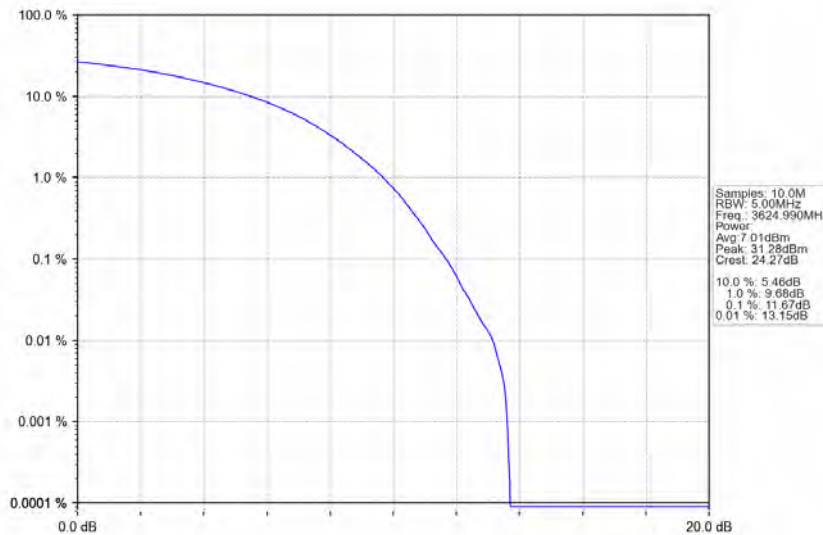
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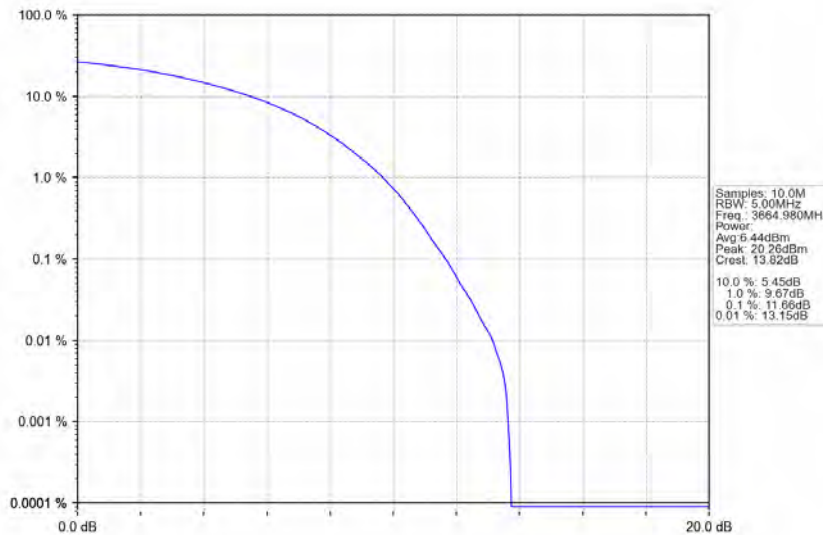
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n78d_30kHz_MIMO_NTNV_70MHz_CP-OFDM_64_QAM_3664.98MHz_Outer_Full



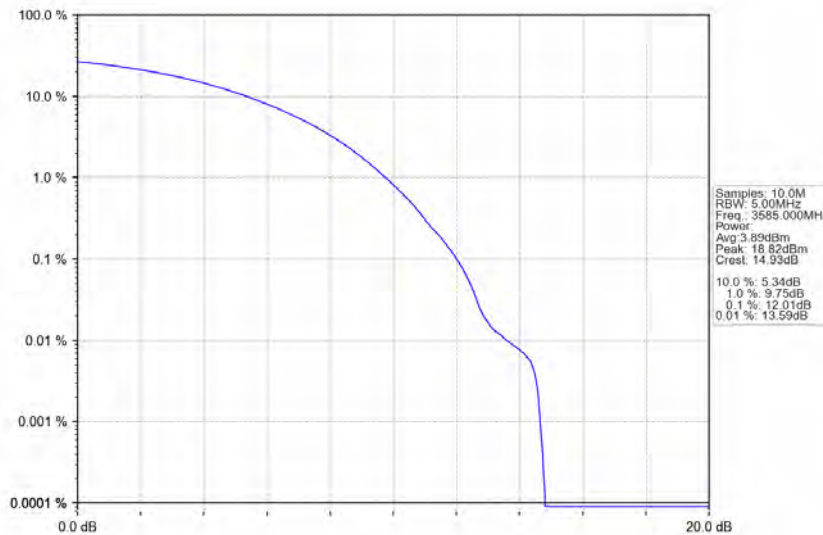
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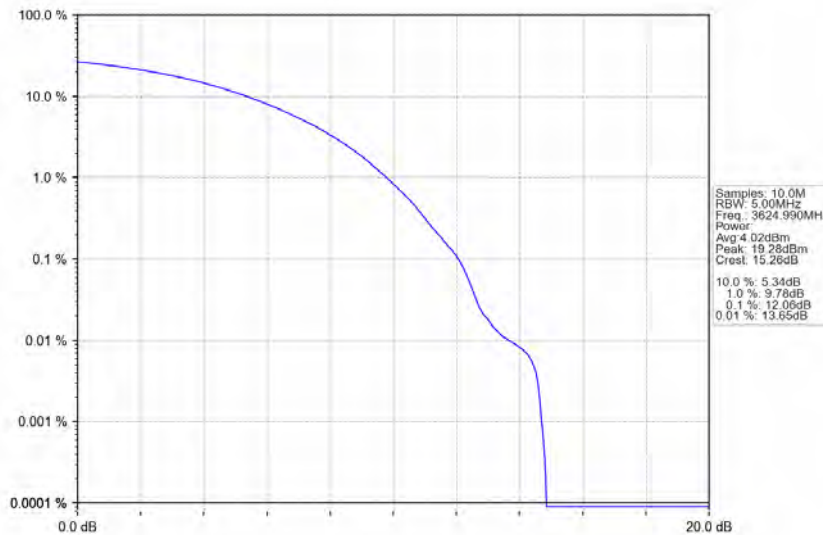
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n78d_30kHz_MIMO_NTNV_70MHz_CP-OFDM_256_QAM_3585MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_70MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



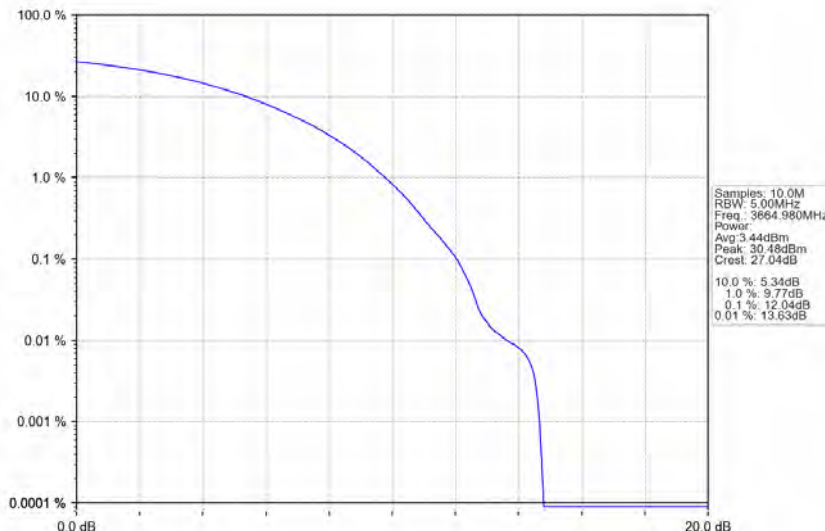
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n78d_30kHz_MIMO_NTNV_70MHz_CP-OFDM 256 QAM_3664.98MHz_Outer_Full



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5.9 30k_MIMO_80MHz_NTNV

5.9.1 Test Result

5G NR n78d SCS=30kHz MIMO 80MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3590.01	Outer_Full	11.96	/	/	<=13	Pass
	3624.99	Outer_Full	11.70	/	/	<=13	Pass
	3660	Outer_Full	11.67	/	/	<=13	Pass
CP-OFDM 16 QAM	3590.01	Outer_Full	11.57	/	/	<=13	Pass
	3624.99	Outer_Full	11.62	/	/	<=13	Pass
	3660	Outer_Full	11.53	/	/	<=13	Pass
CP-OFDM 64 QAM	3590.01	Outer_Full	11.69	/	/	<=13	Pass
	3624.99	Outer_Full	11.69	/	/	<=13	Pass
	3660	Outer_Full	11.92	/	/	<=13	Pass
CP-OFDM 256 QAM	3590.01	Outer_Full	12.17	/	/	<=13	Pass
	3624.99	Outer_Full	12.16	/	/	<=13	Pass
	3660	Outer_Full	12.24	/	/	<=13	Pass



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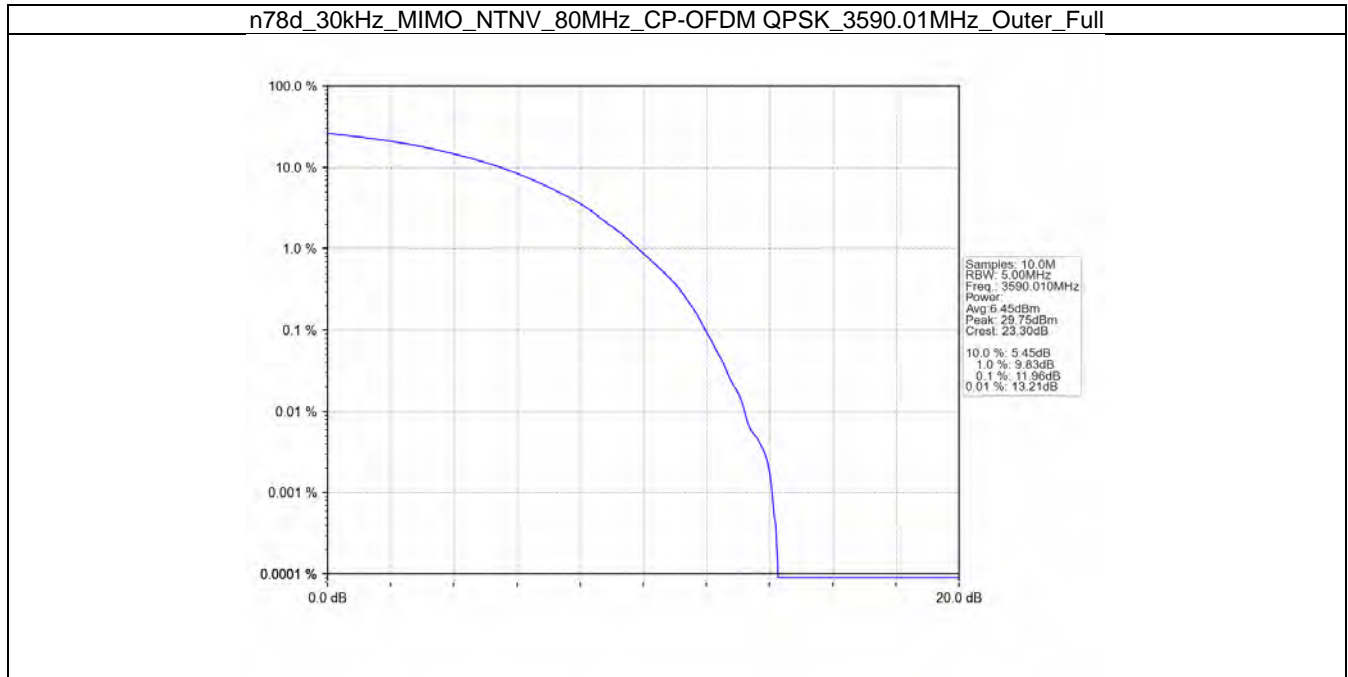
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EMC Laboratory

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5.9.2 Test Graph



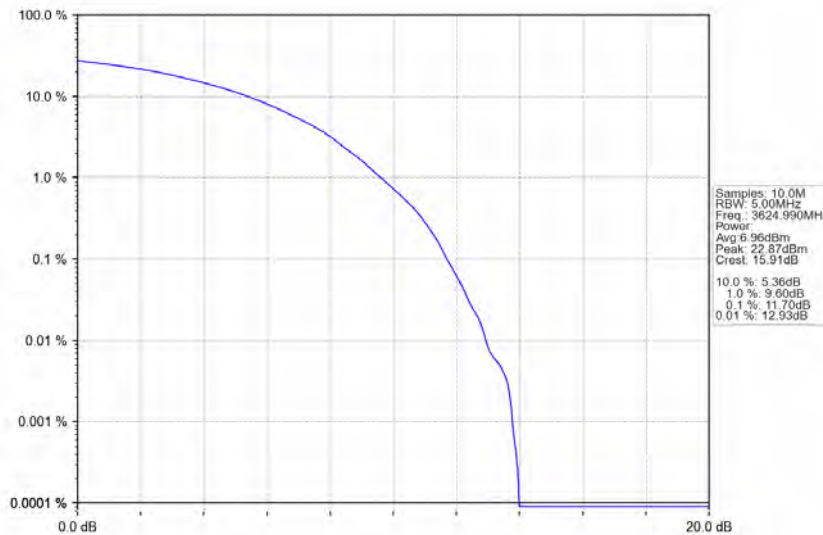
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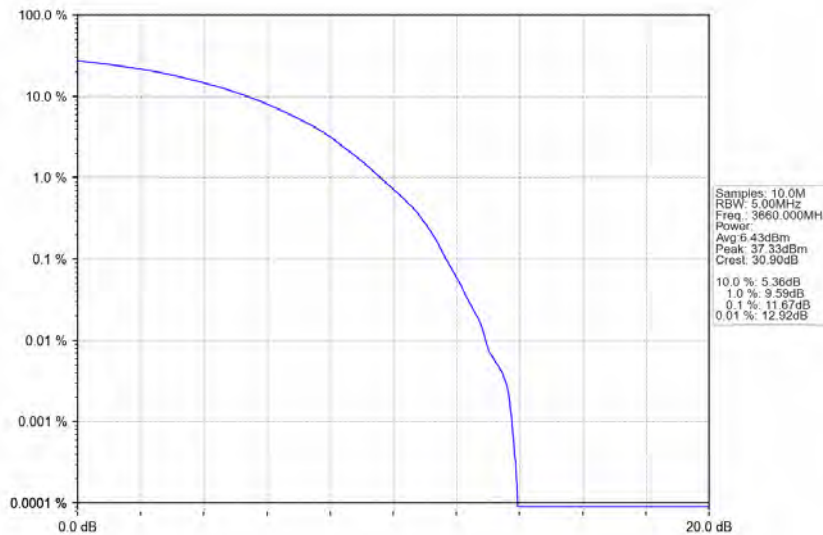
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n78d_30kHz_MIMO_NTNV_80MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_80MHz_CP-OFDM QPSK_3660MHz_Outer_Full



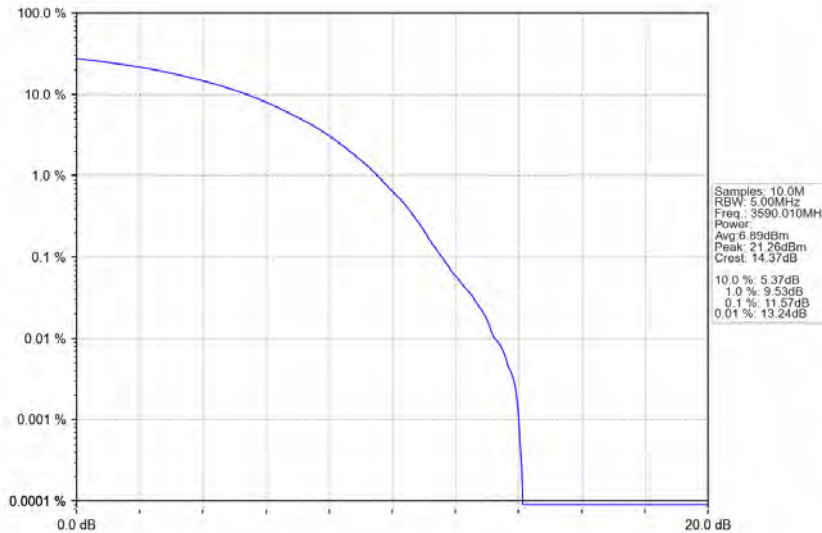
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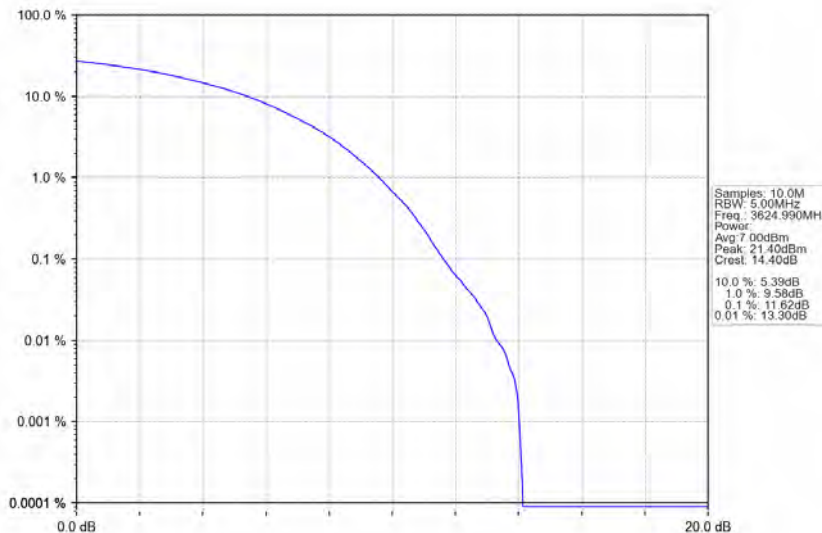
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n78d_30kHz_MIMO_NTNV_80MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



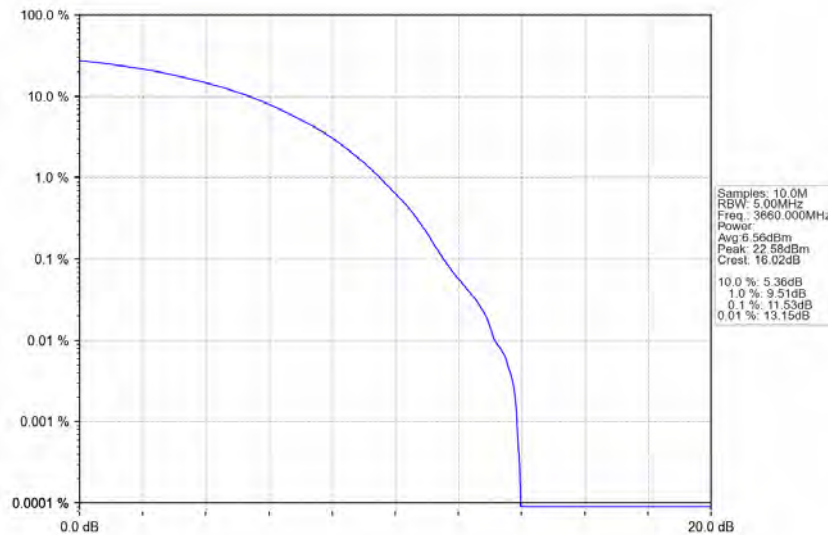
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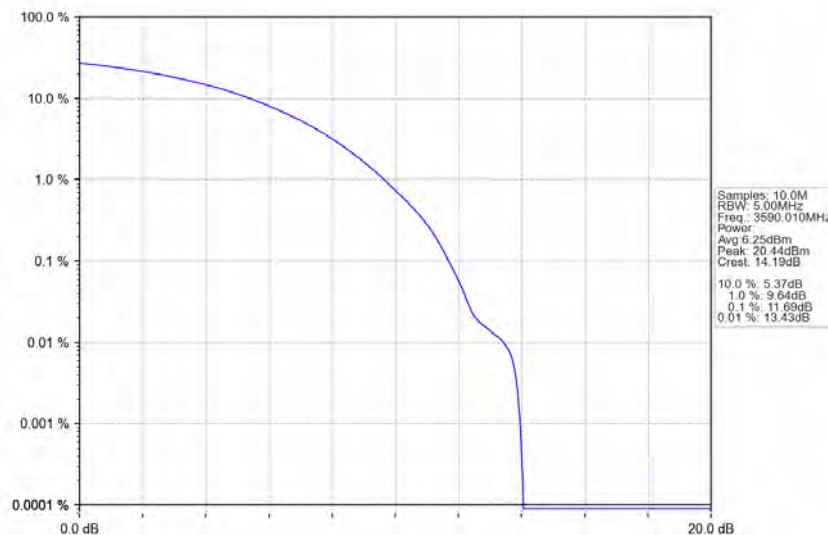
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n78d_30kHz_MIMO_NTNV_80MHz_CP-OFDM 64 QAM_3590.01MHz_Outer_Full



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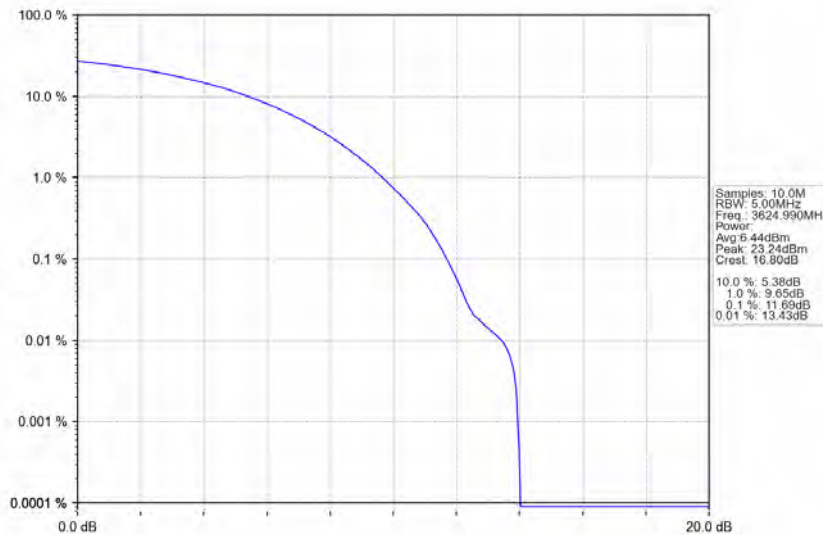
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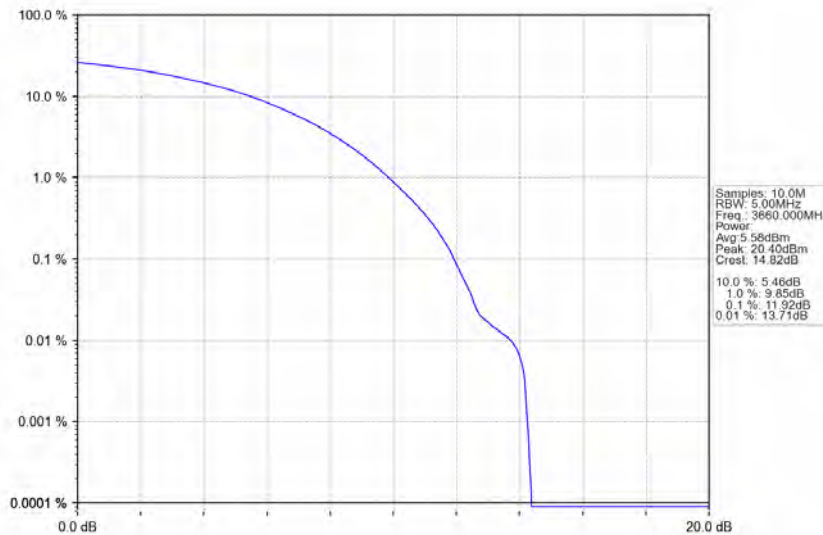
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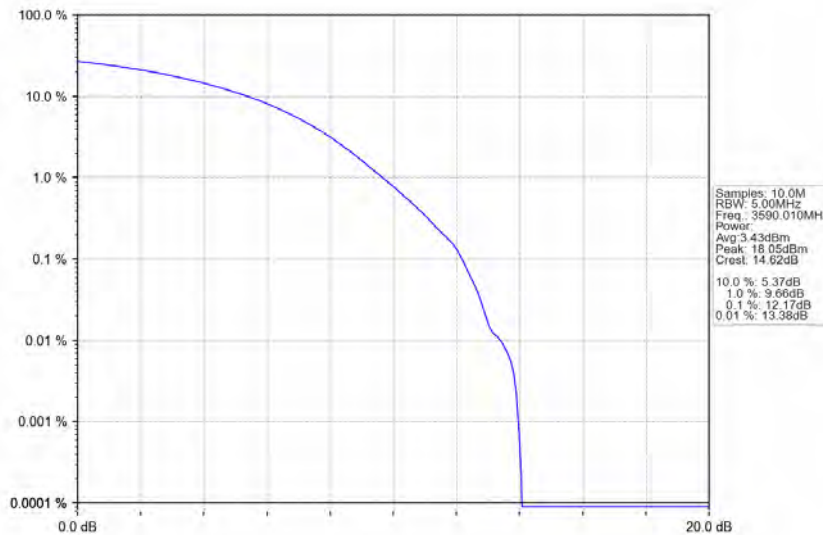
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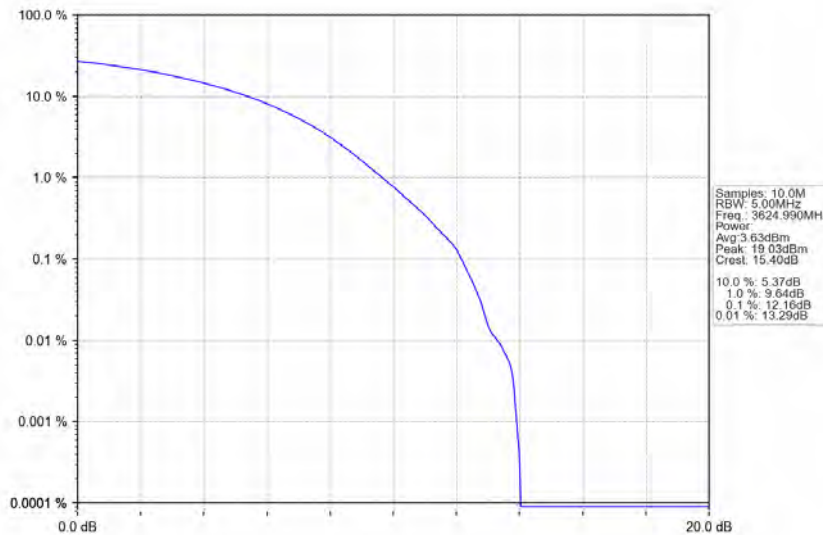
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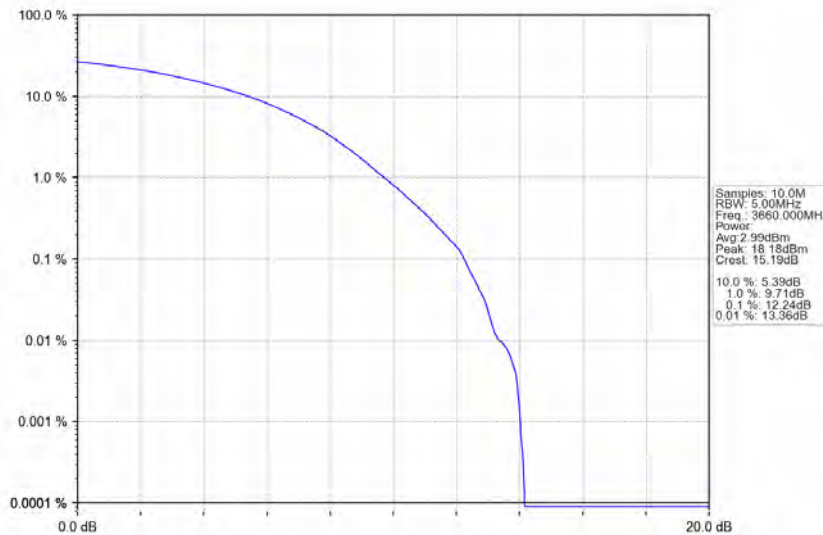
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5.10 30k_MIMO_90MHz_NTNV

5.10.1 Test Result

5G NR n78d SCS=30kHz MIMO 90MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3595.02	Outer_Full	11.70	/	/	<=13	Pass
	3624.99	Outer_Full	11.61	/	/	<=13	Pass
	3654.99	Outer_Full	11.60	/	/	<=13	Pass
CP-OFDM 16 QAM	3595.02	Outer_Full	11.65	/	/	<=13	Pass
	3624.99	Outer_Full	11.61	/	/	<=13	Pass
	3654.99	Outer_Full	11.57	/	/	<=13	Pass
CP-OFDM 64 QAM	3595.02	Outer_Full	11.87	/	/	<=13	Pass
	3624.99	Outer_Full	11.82	/	/	<=13	Pass
	3654.99	Outer_Full	12.61	/	/	<=13	Pass
CP-OFDM 256 QAM	3595.02	Outer_Full	11.53	/	/	<=13	Pass
	3624.99	Outer_Full	11.59	/	/	<=13	Pass
	3654.99	Outer_Full	11.58	/	/	<=13	Pass

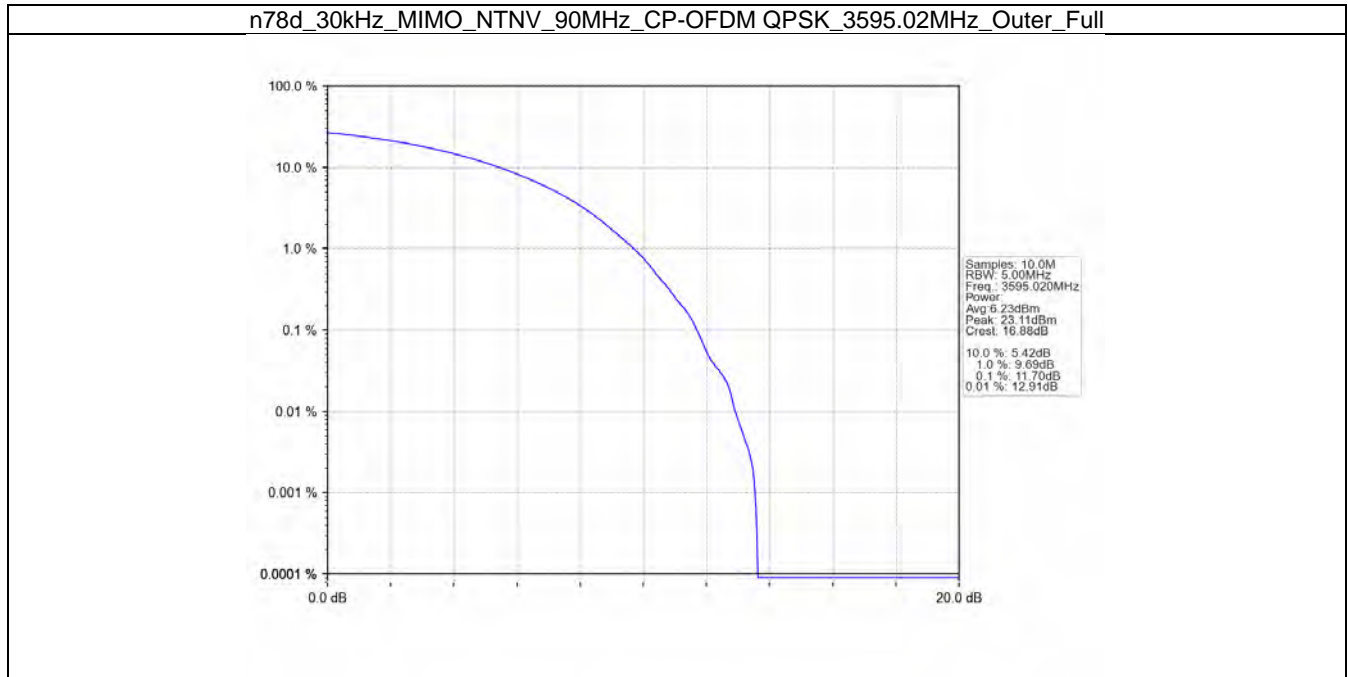


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5.10.2 Test Graph



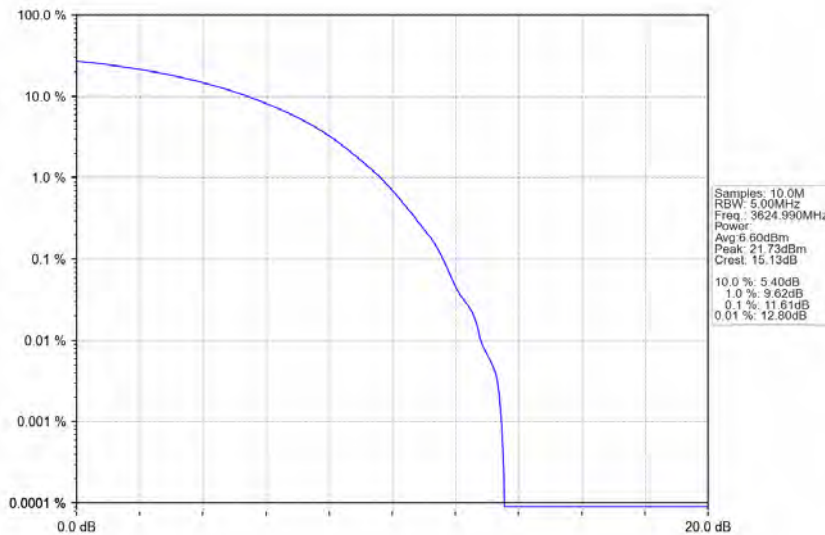
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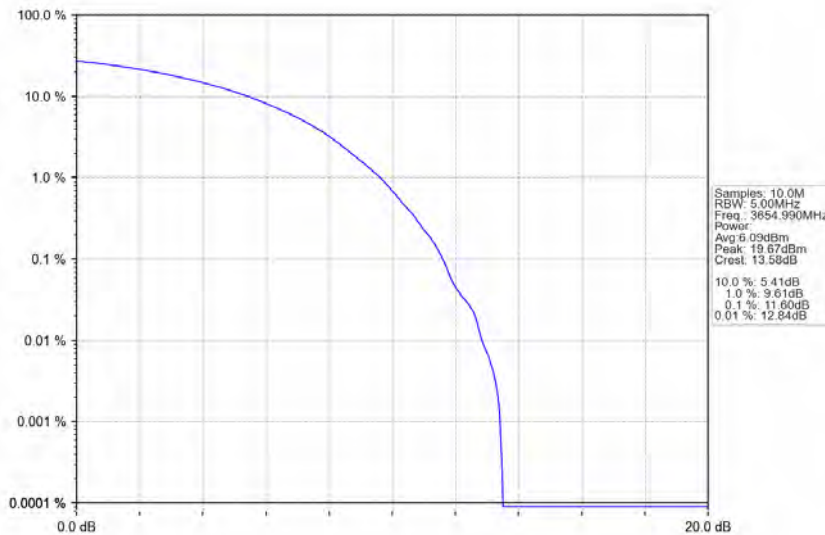
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_QPSK_3654.99MHz_Outer_Full



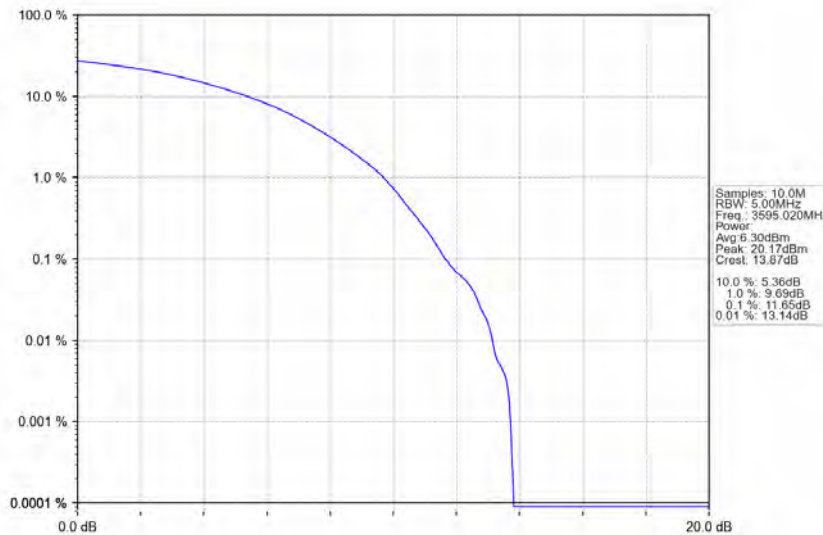
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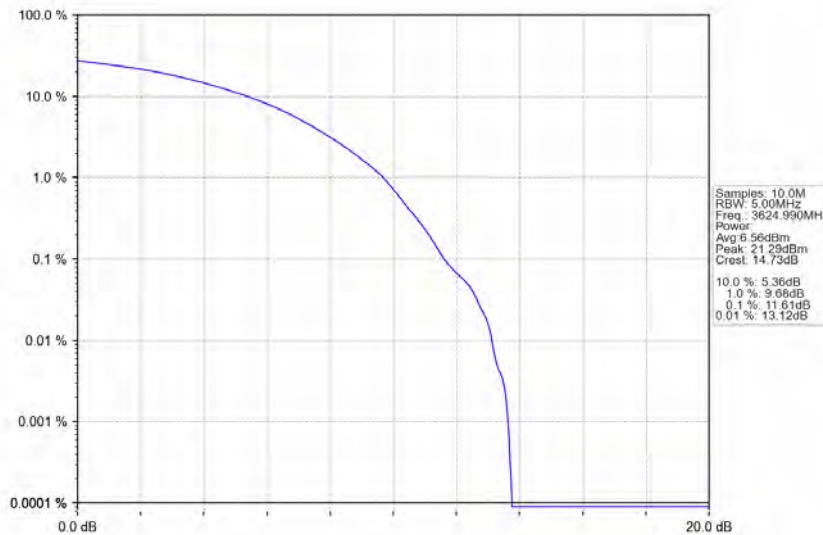
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



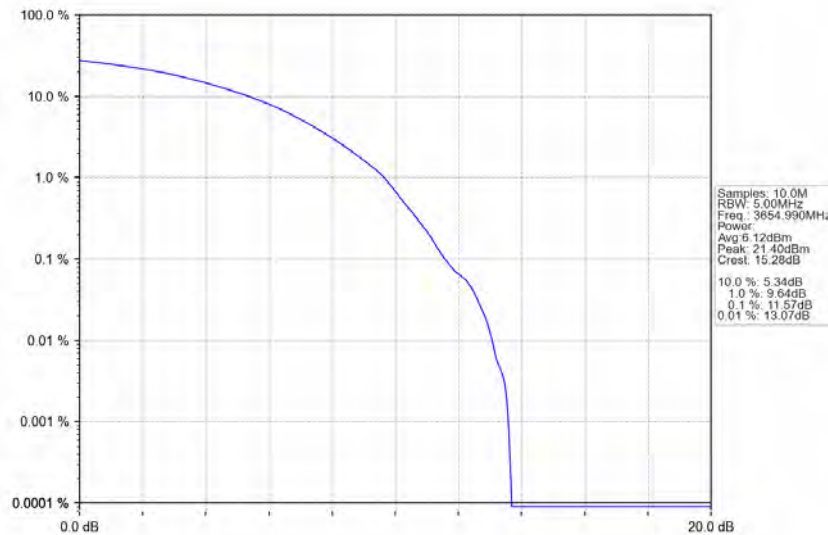
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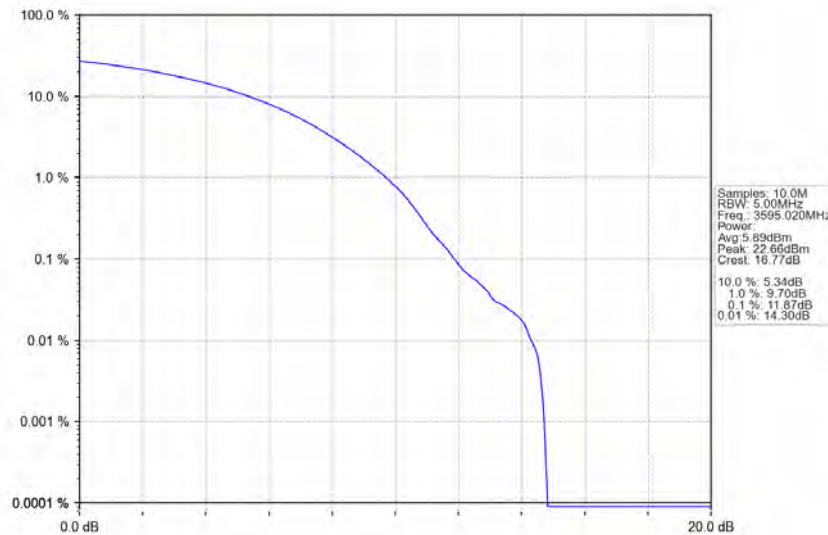
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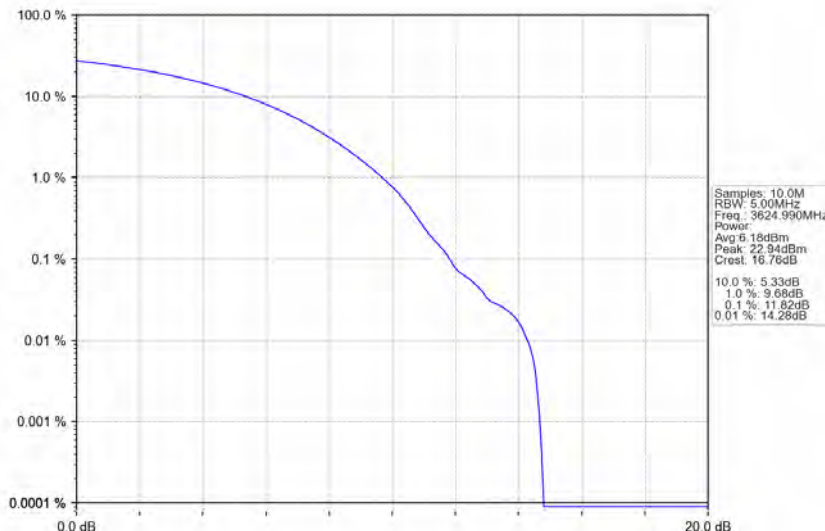
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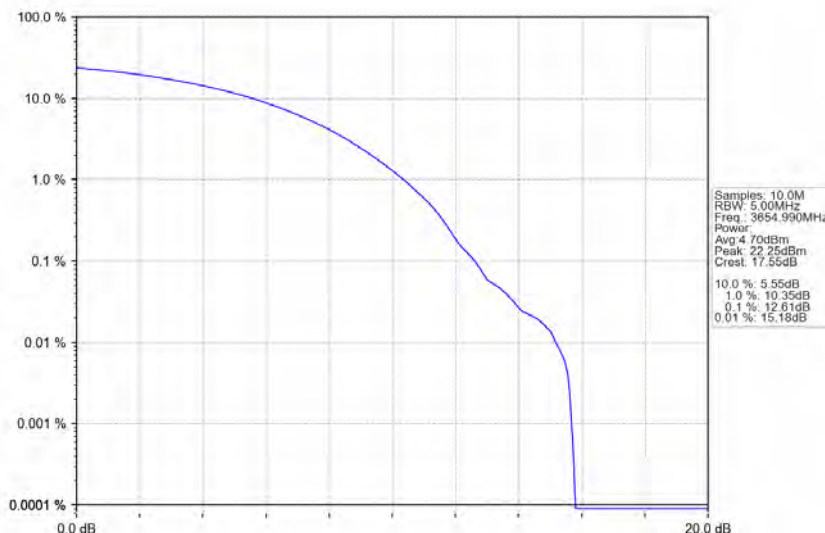
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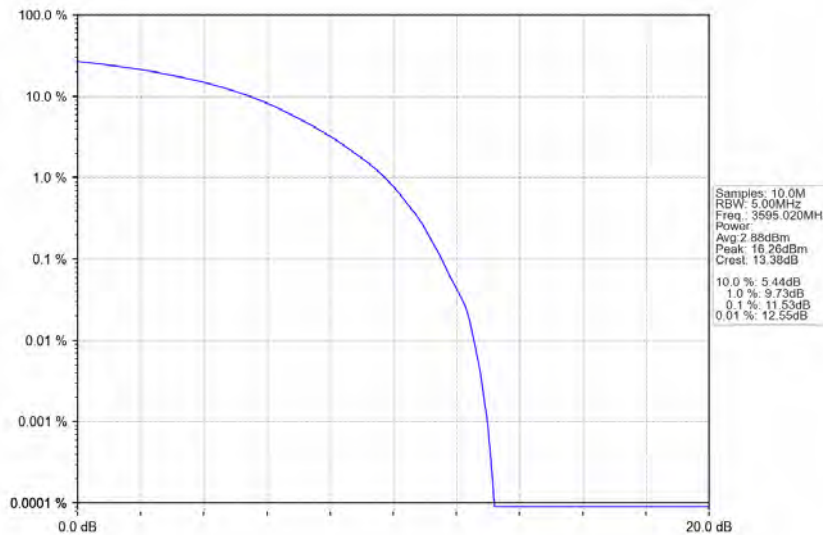
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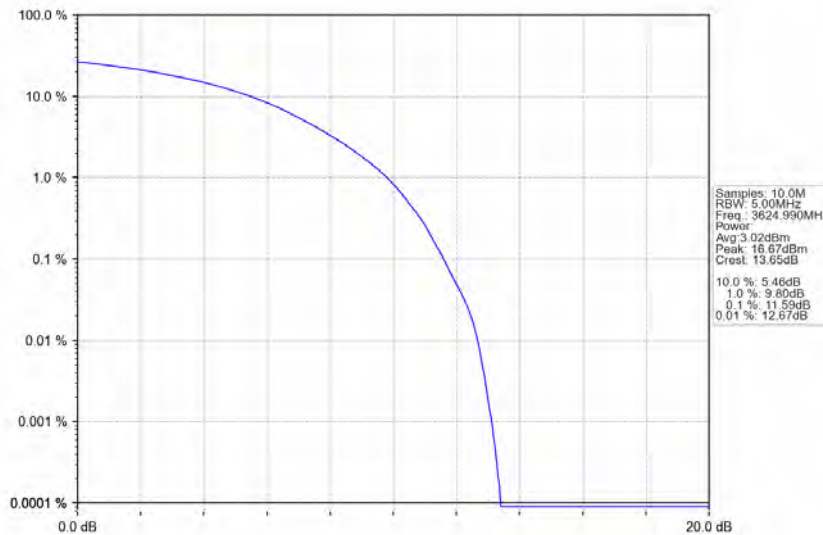
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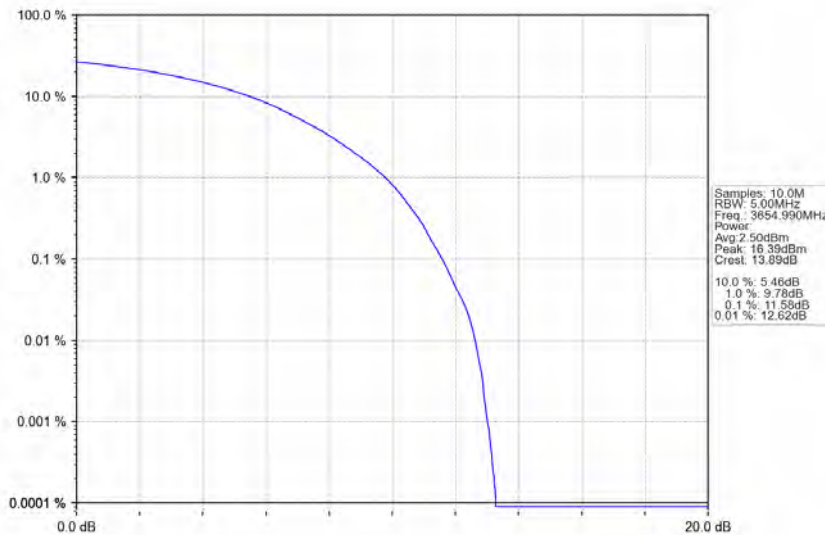
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5.11 30k_MIMO_100MHz_NTNV

5.11.1 Test Result

5G NR n78d SCS=30kHz MIMO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3600	Outer_Full	11.61	/	/	<=13	Pass
	3624.99	Outer_Full	11.61	/	/	<=13	Pass
	3649.98	Outer_Full	11.56	/	/	<=13	Pass
CP-OFDM 16 QAM	3600	Outer_Full	12.09	/	/	<=13	Pass
	3624.99	Outer_Full	11.73	/	/	<=13	Pass
	3649.98	Outer_Full	11.59	/	/	<=13	Pass
CP-OFDM 64 QAM	3600	Outer_Full	11.67	/	/	<=13	Pass
	3624.99	Outer_Full	11.47	/	/	<=13	Pass
	3649.98	Outer_Full	11.62	/	/	<=13	Pass
CP-OFDM 256 QAM	3600	Outer_Full	11.69	/	/	<=13	Pass
	3624.99	Outer_Full	11.93	/	/	<=13	Pass
	3649.98	Outer_Full	11.68	/	/	<=13	Pass



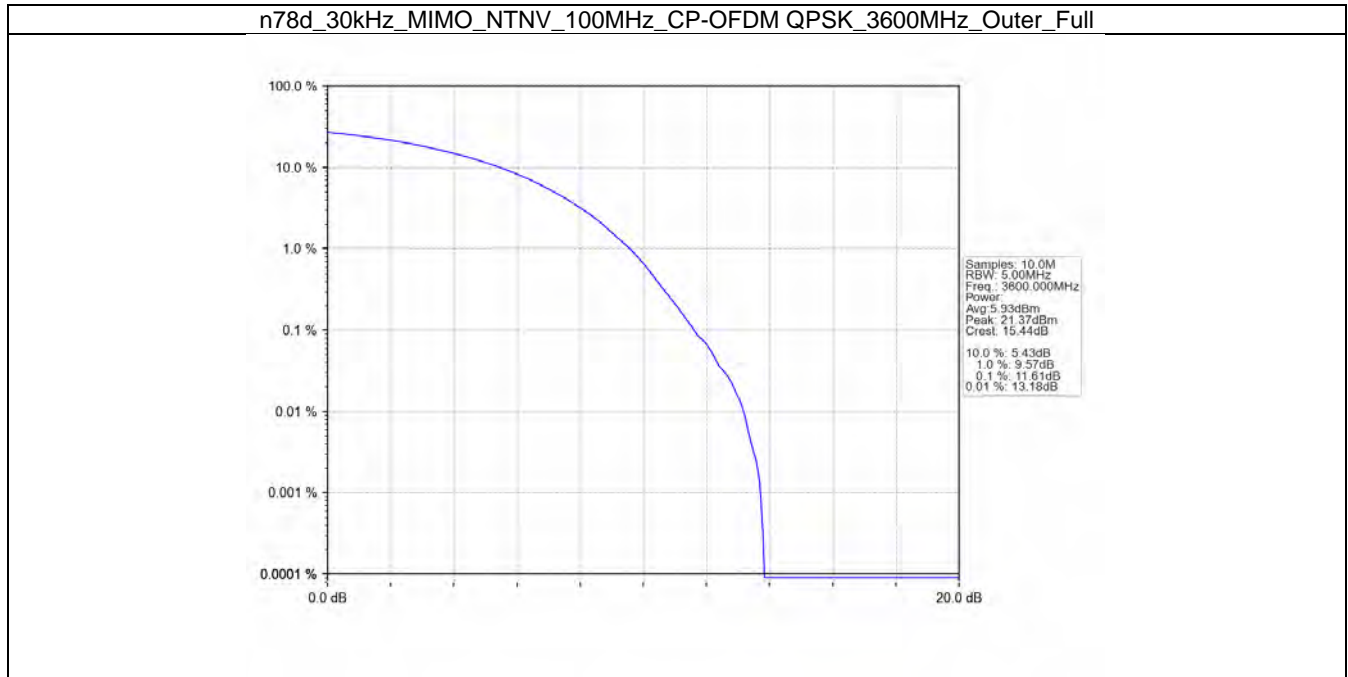
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5.11.2 Test Graph



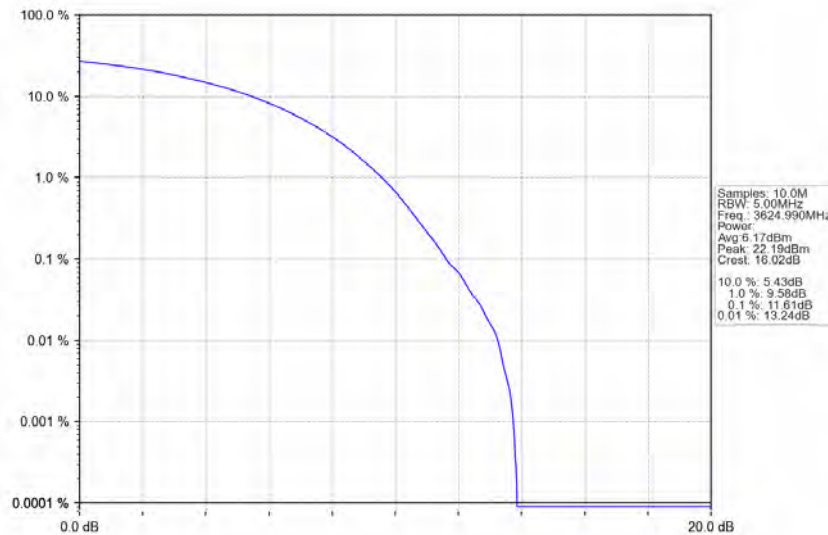
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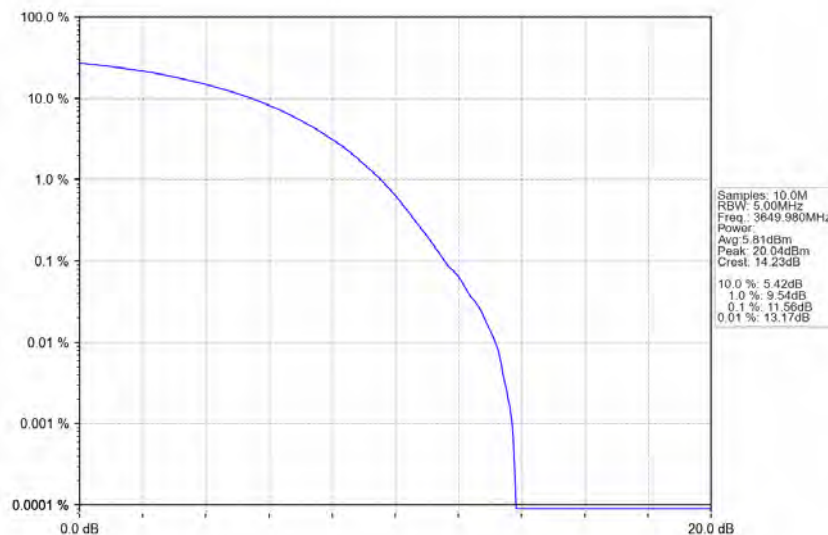
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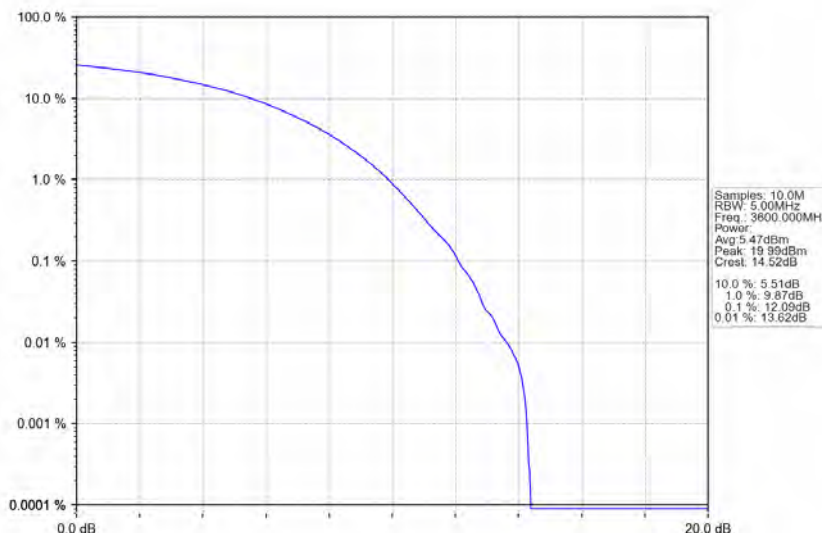
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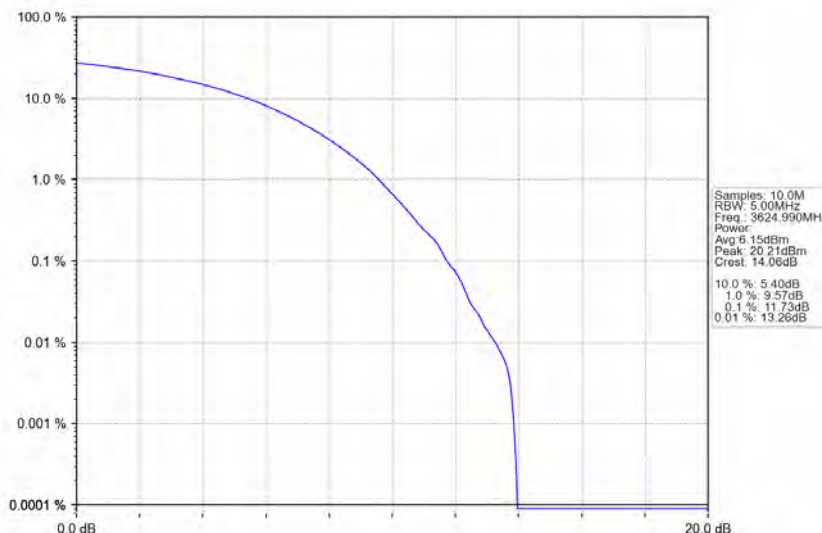
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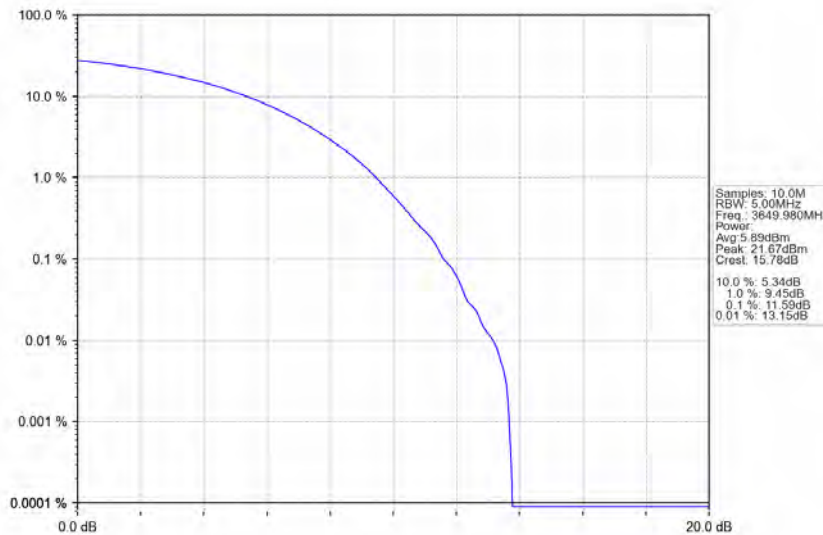


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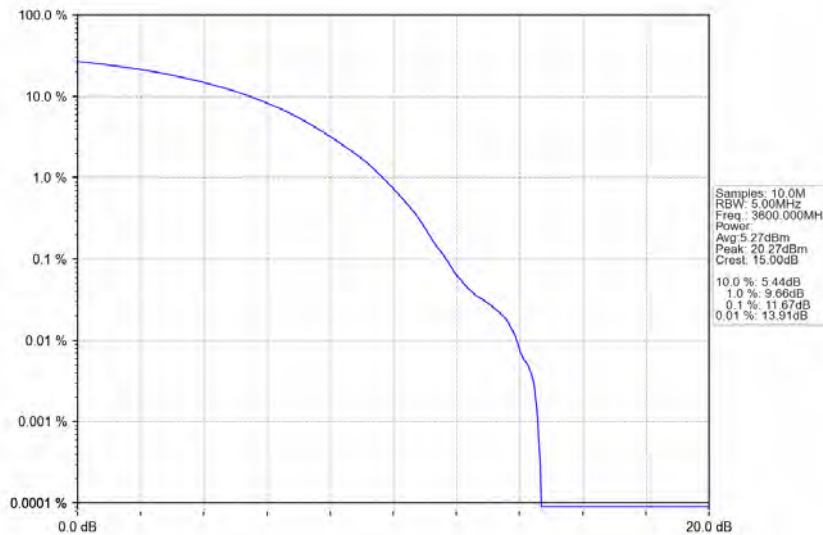
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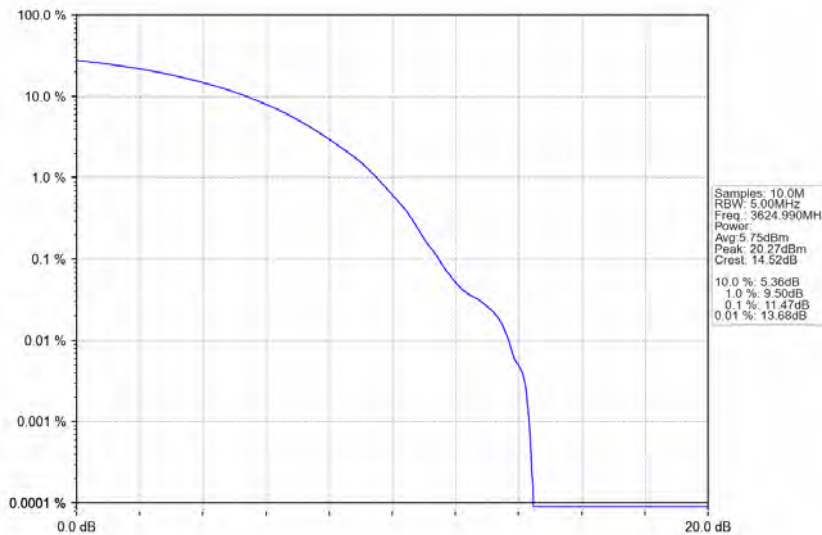
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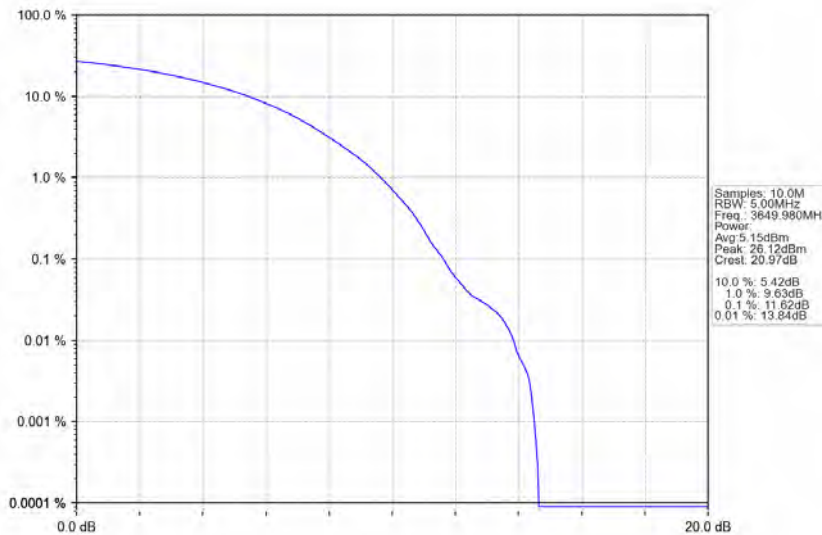
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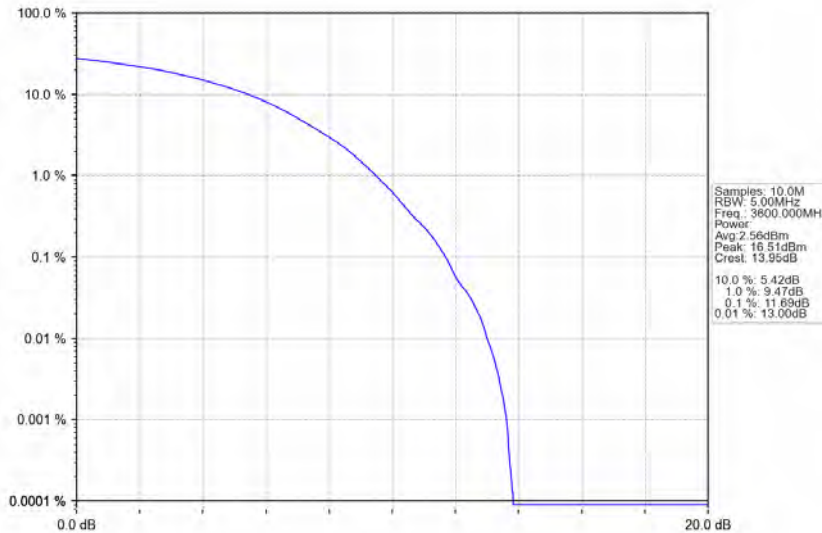
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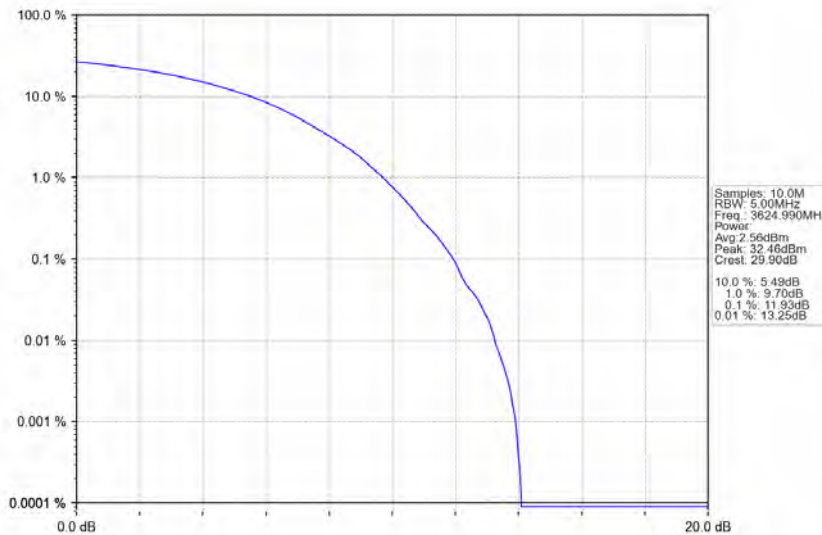
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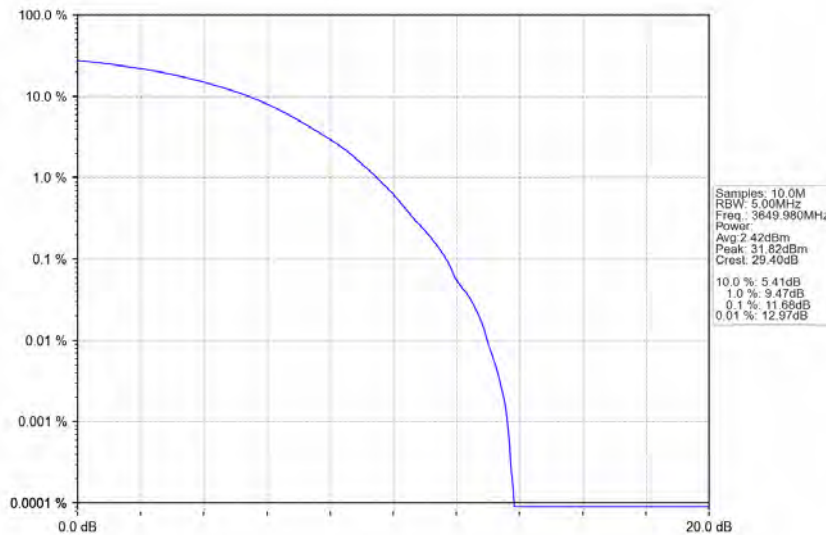
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6. Spurious Emission

6.1 30k_MIMO_10MHz_NTNV

6.1.1 Test Result

5G NR n78d SCS=30kHz MIMO 10MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3694.98	Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3694.98	Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
Refer To Test Graph				Pass			
Refer To Test Graph				Pass			

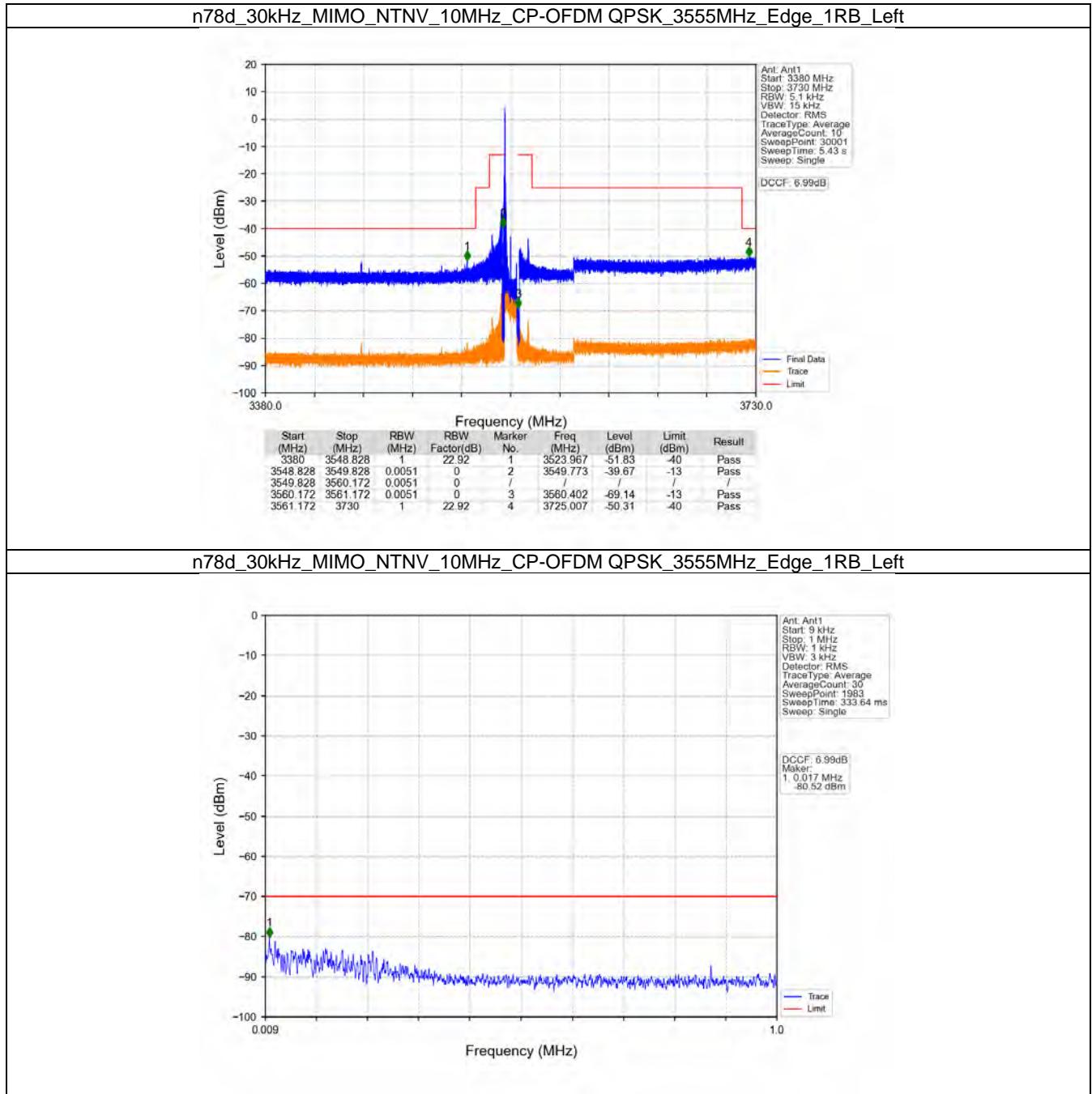


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6.1.2 Test Graph

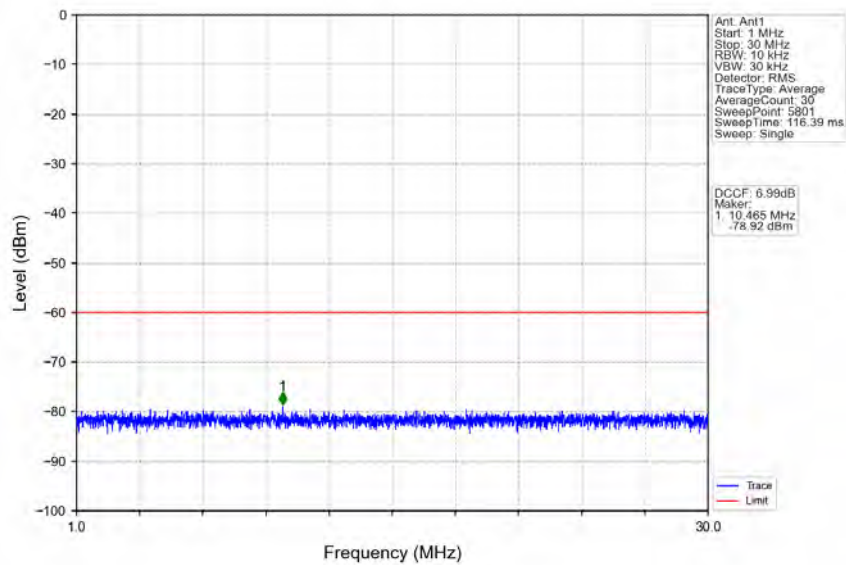


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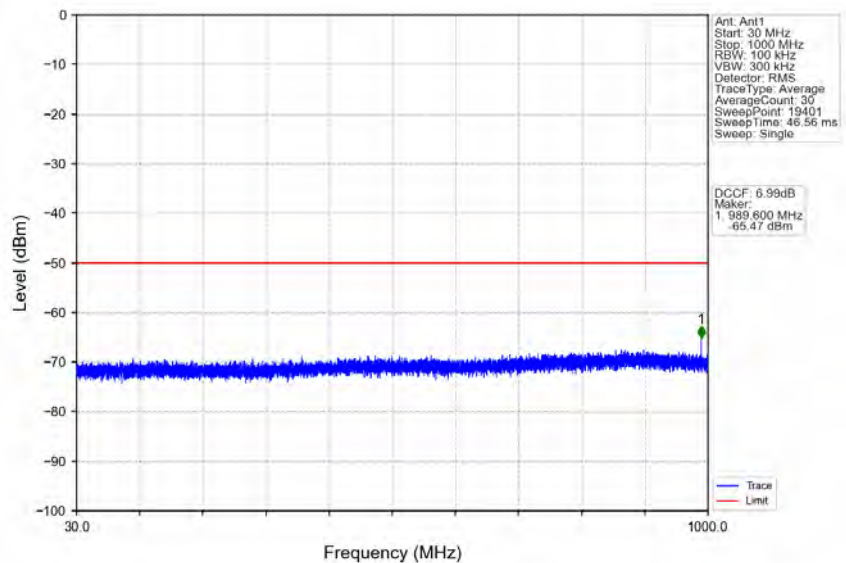
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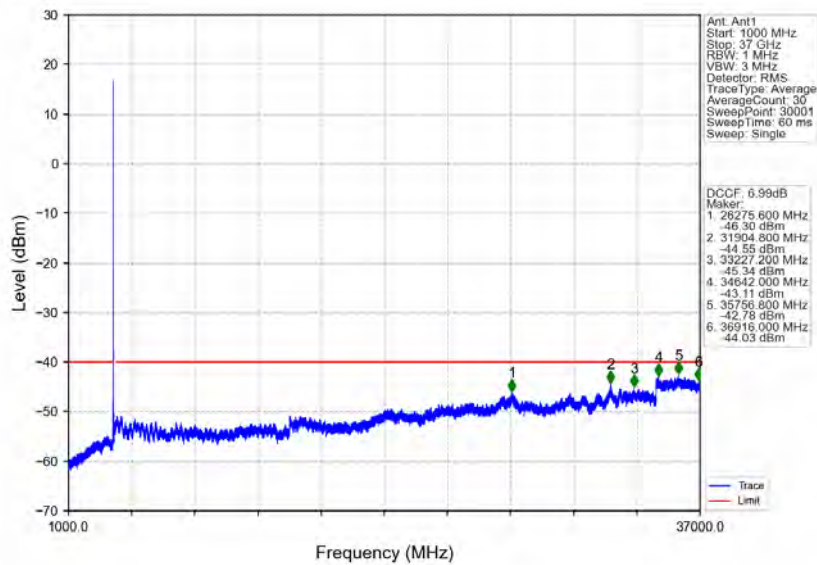
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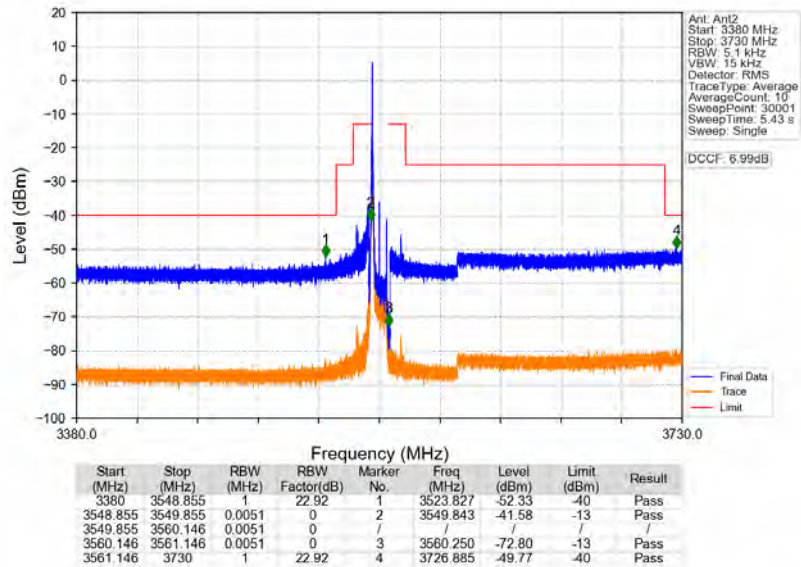
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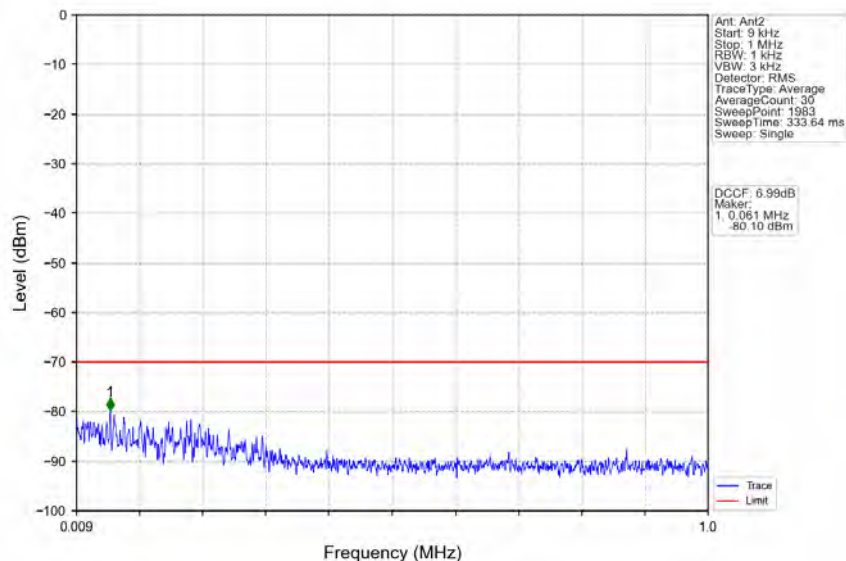
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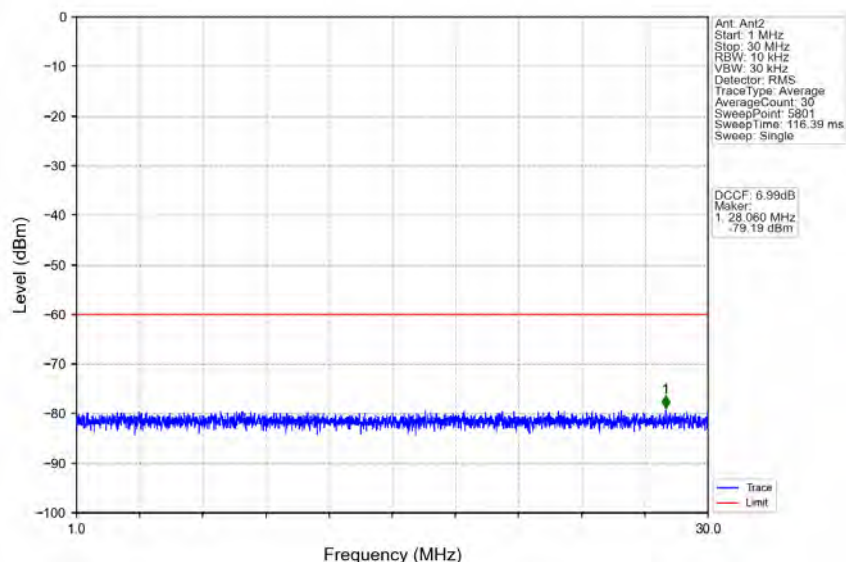
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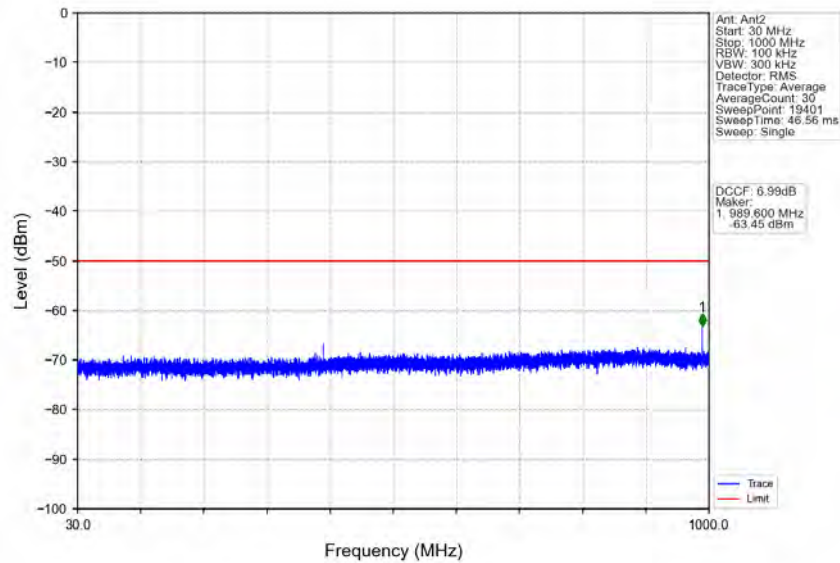
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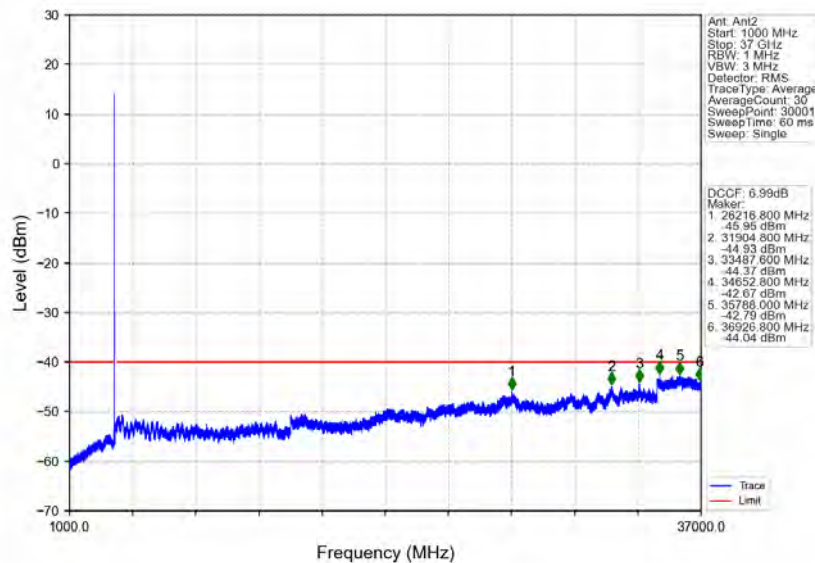
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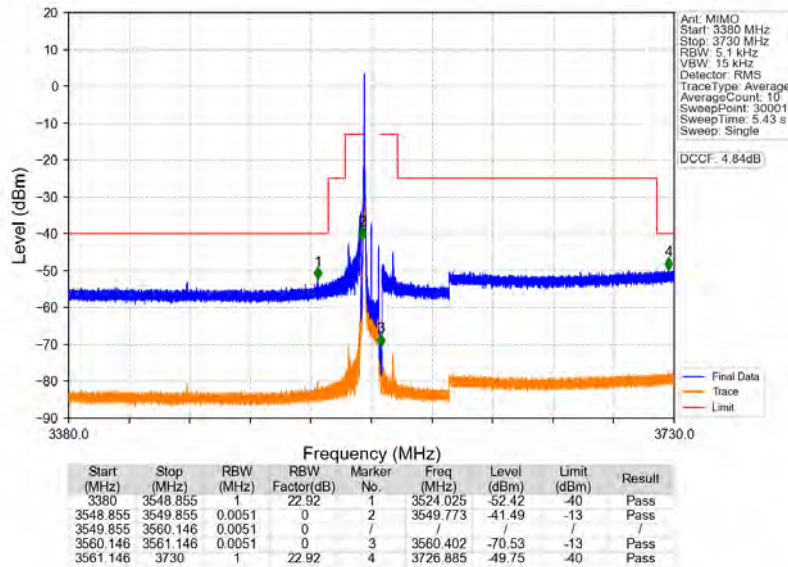
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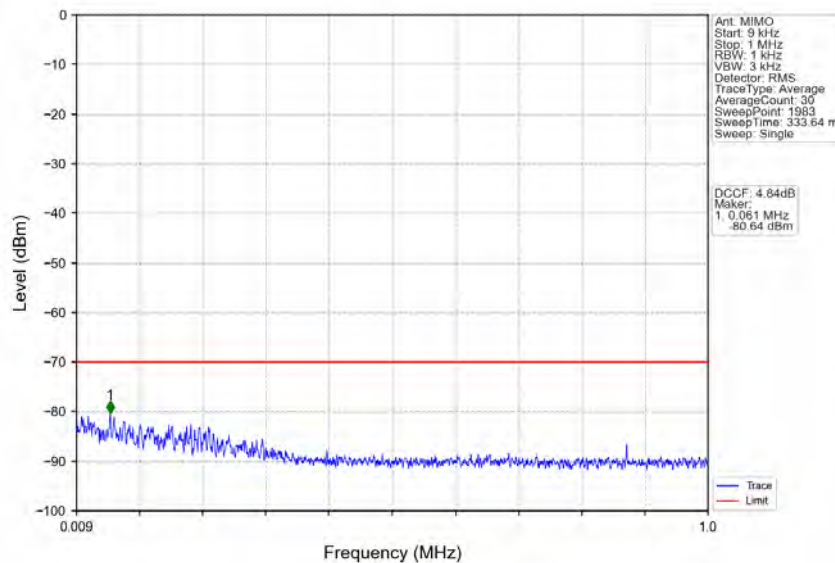
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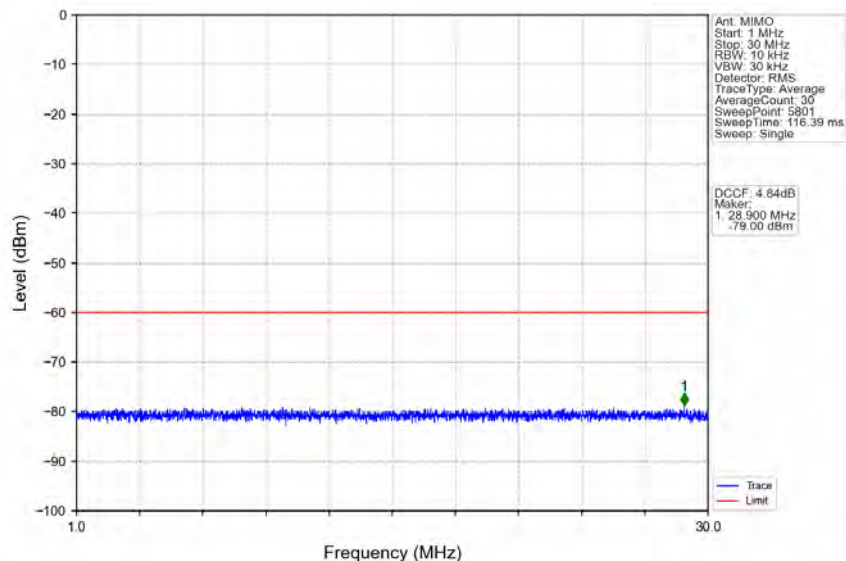
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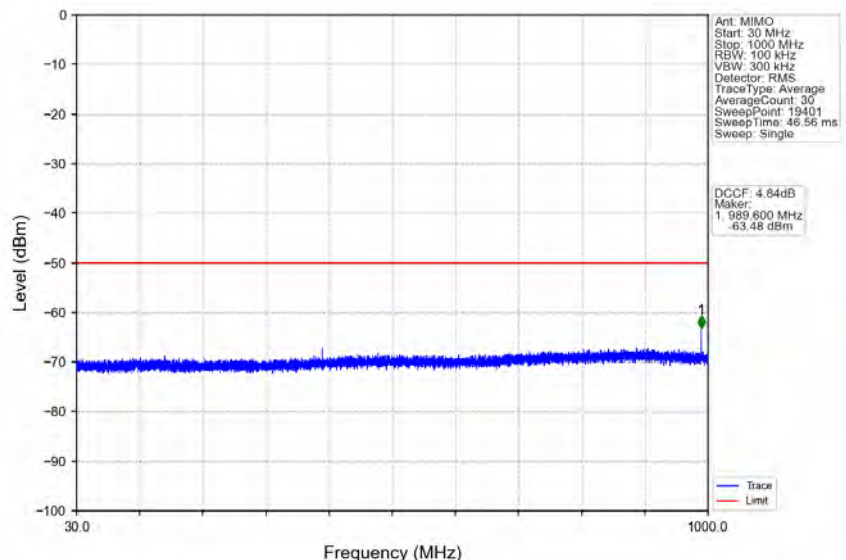


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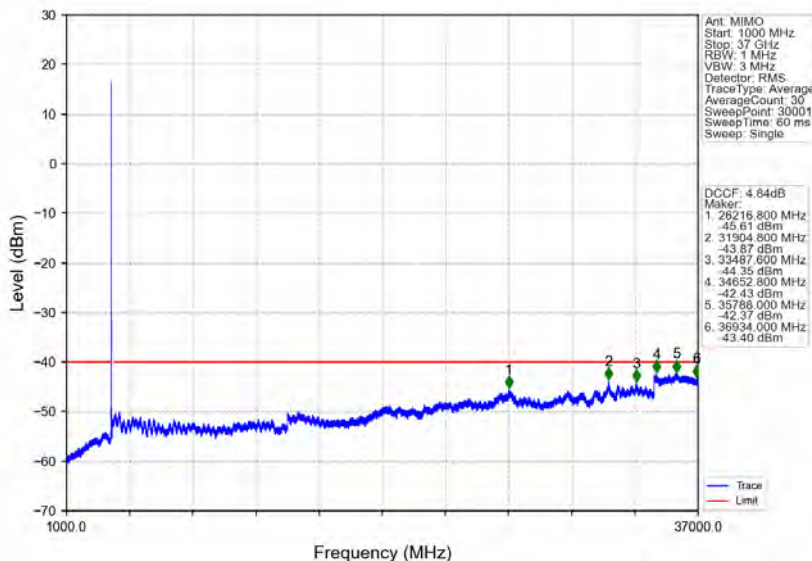
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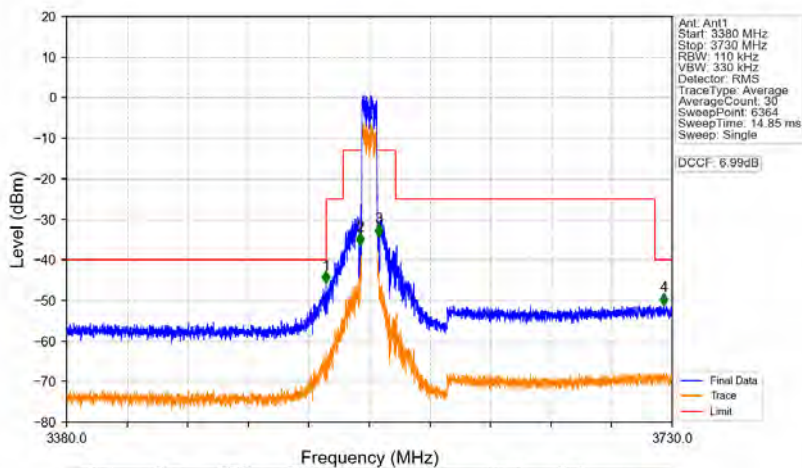
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3380	3548.828	1	9.59	1	3529.945	-45.84	-40	Pass
3548.828	3549.828	0.11	0	2	3549.802	-36.37	-13	Pass
3549.828	3560.172	0.11	0	3	3560.418	-34.24	-13	Pass
3560.172	3561.172	0.11	0	4	3725.215	-51.19	-40	Pass

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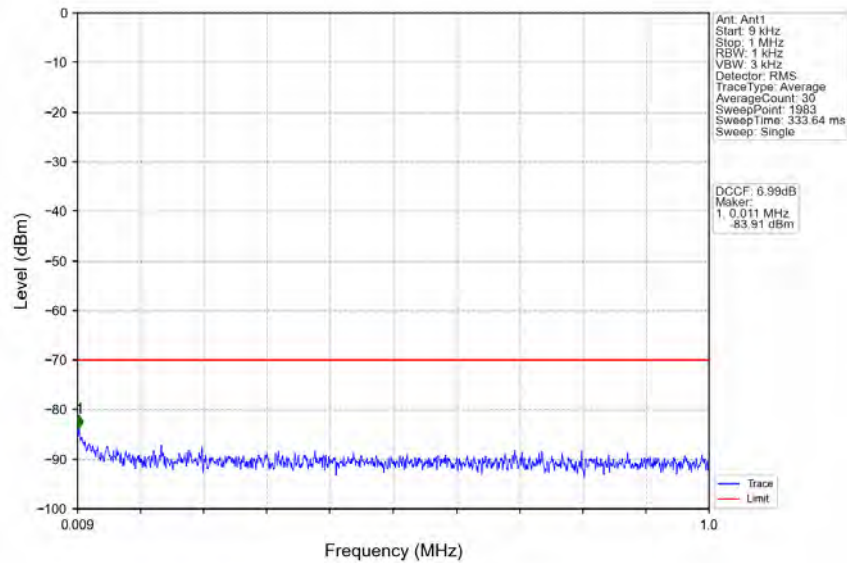
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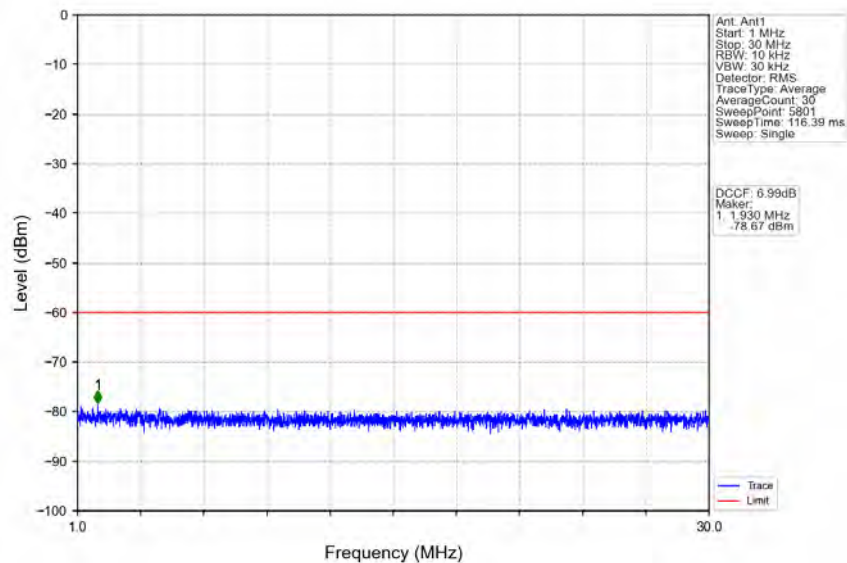
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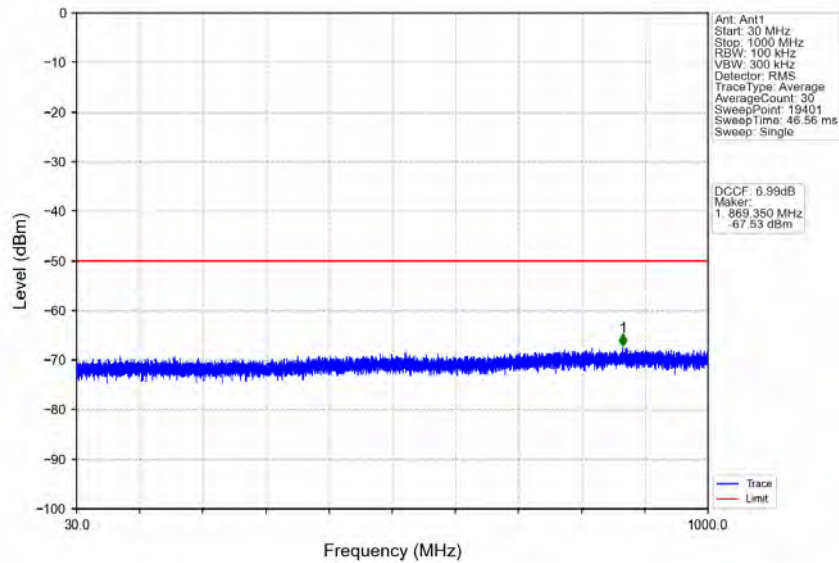
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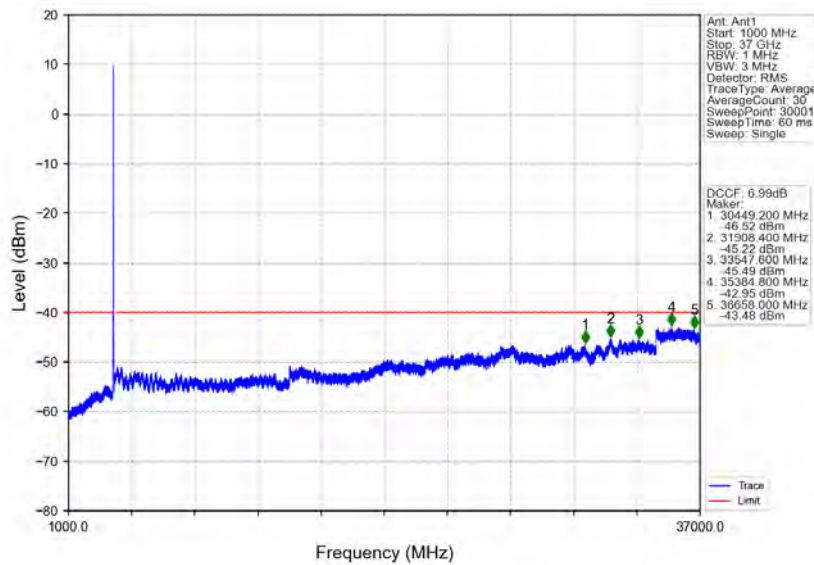
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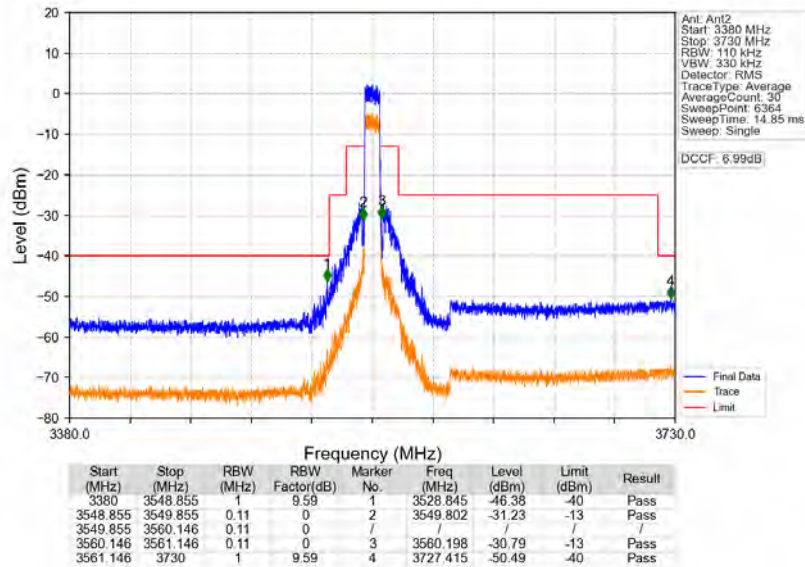
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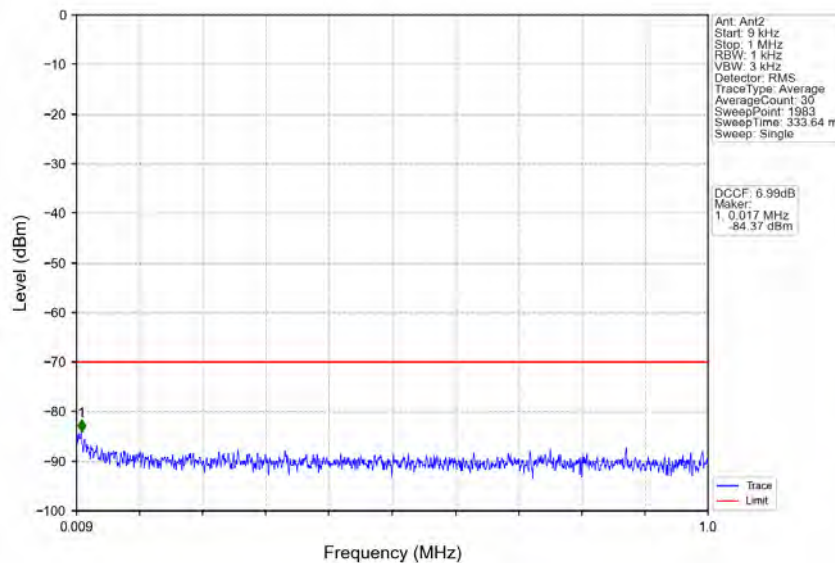
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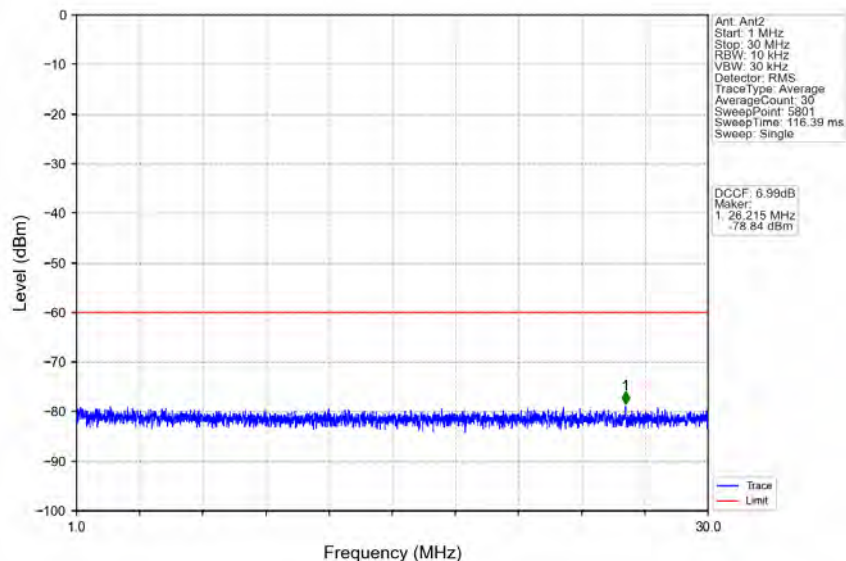
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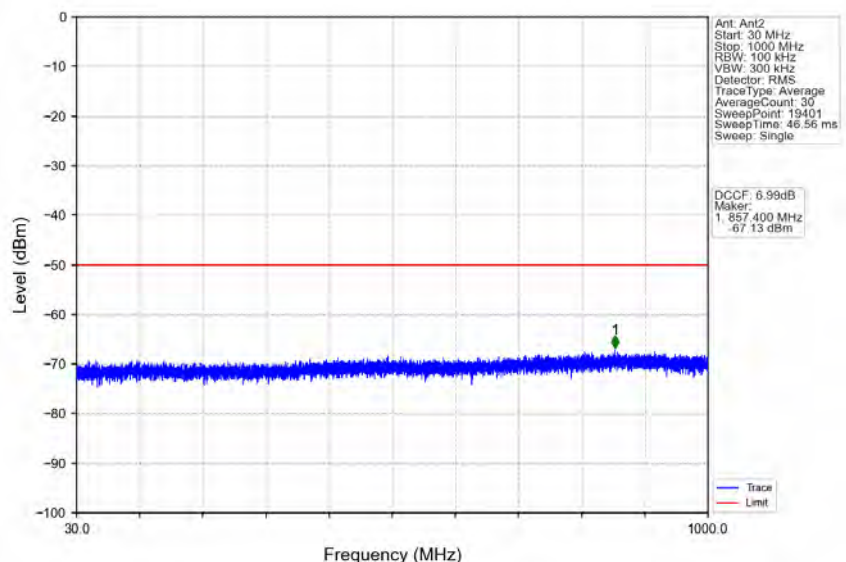
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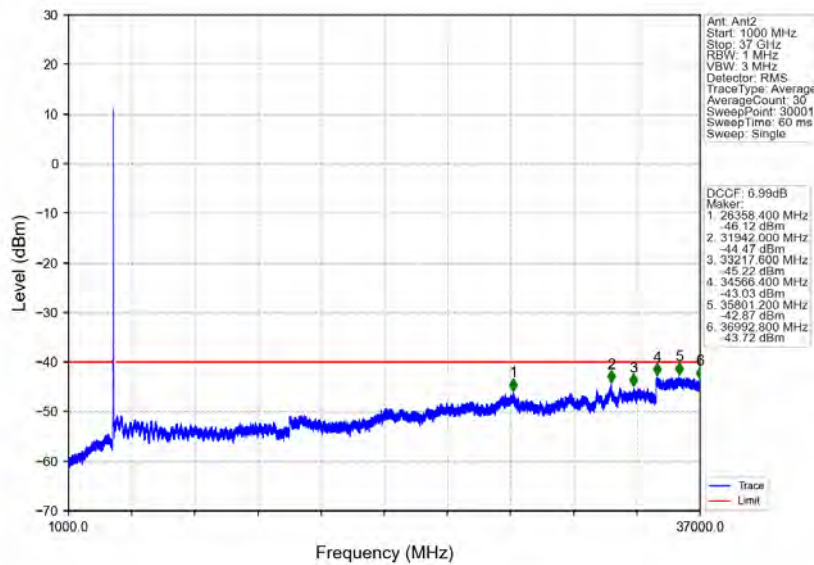
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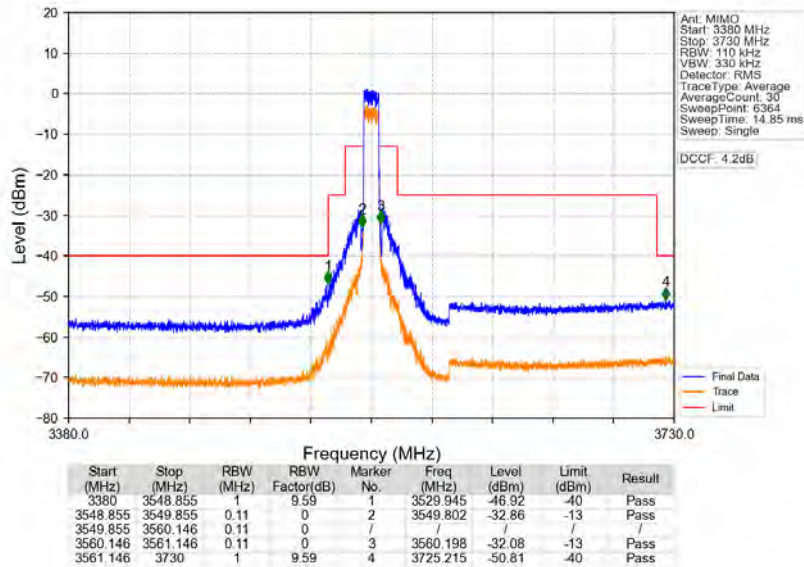
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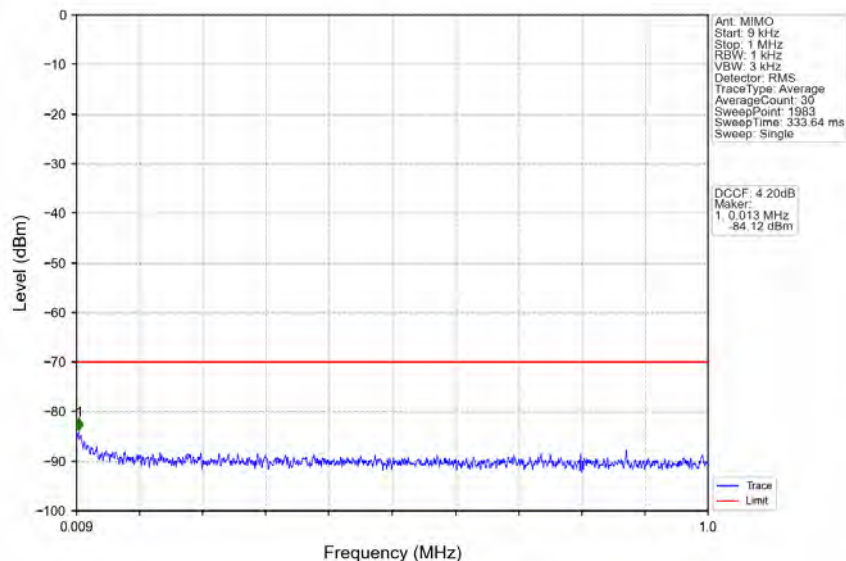
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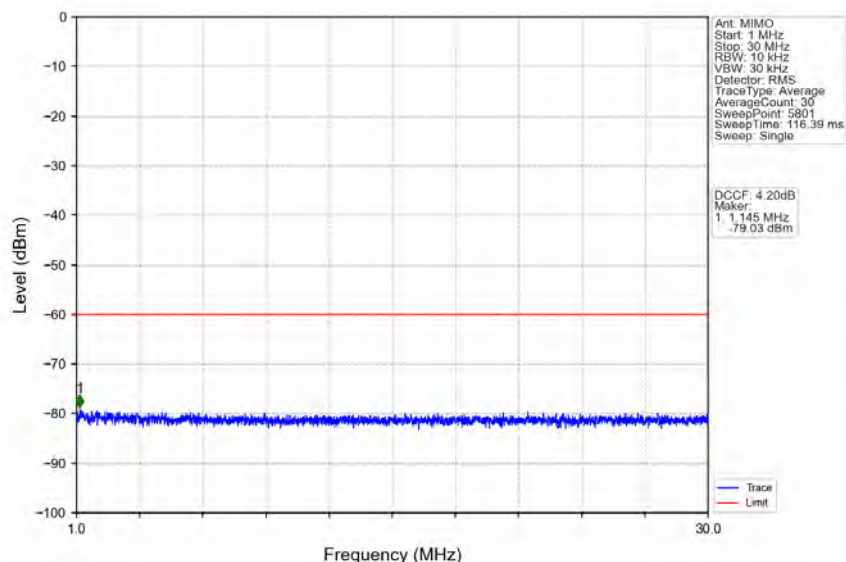
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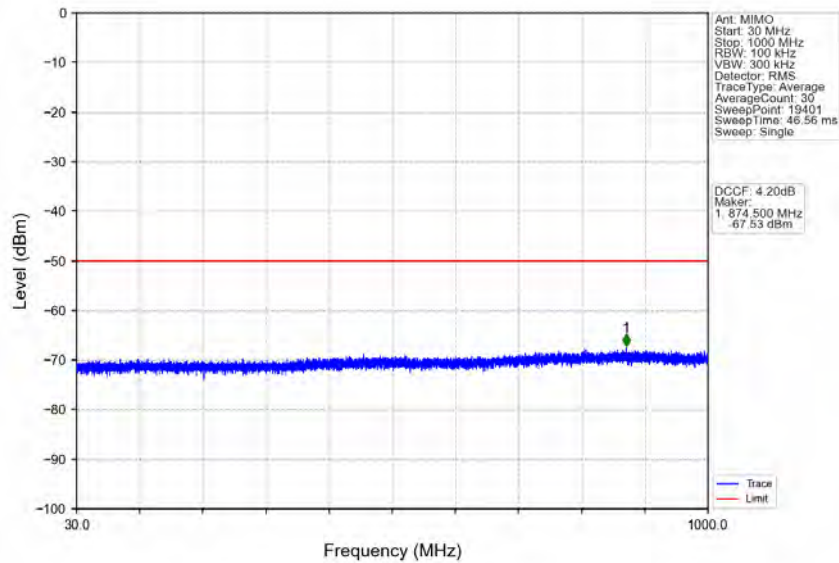
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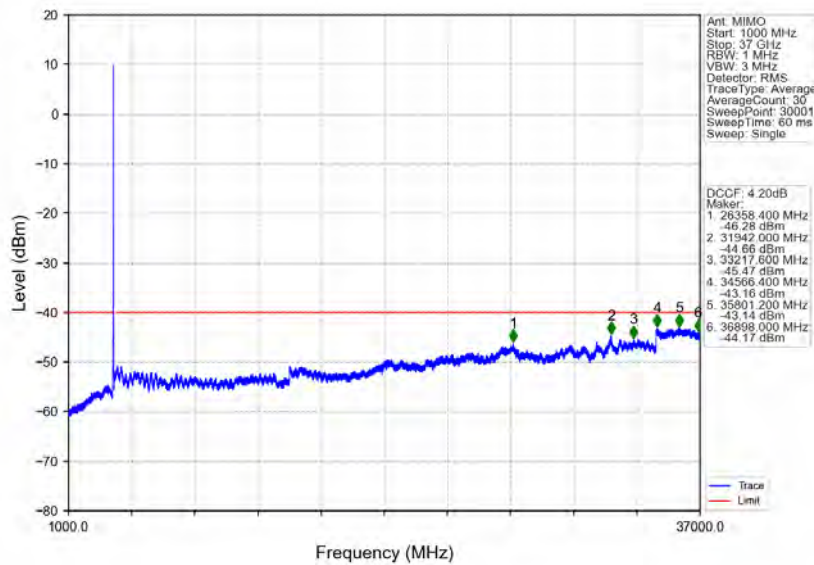
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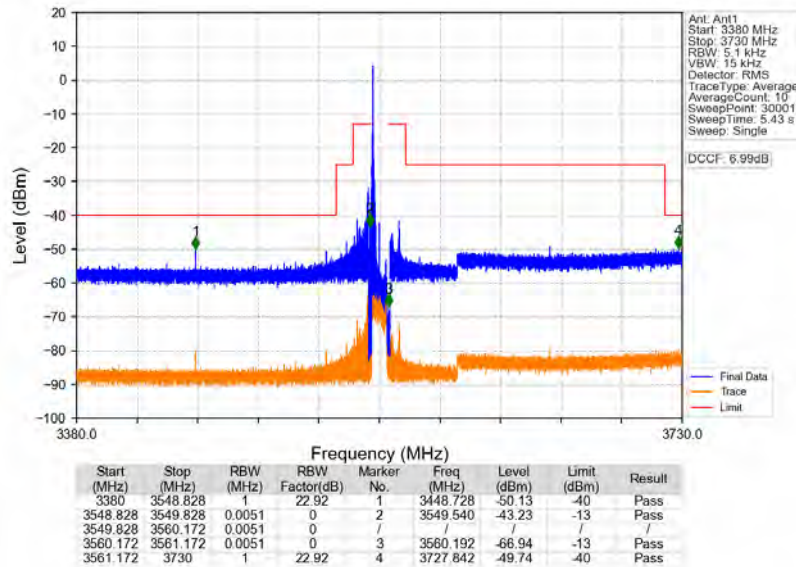
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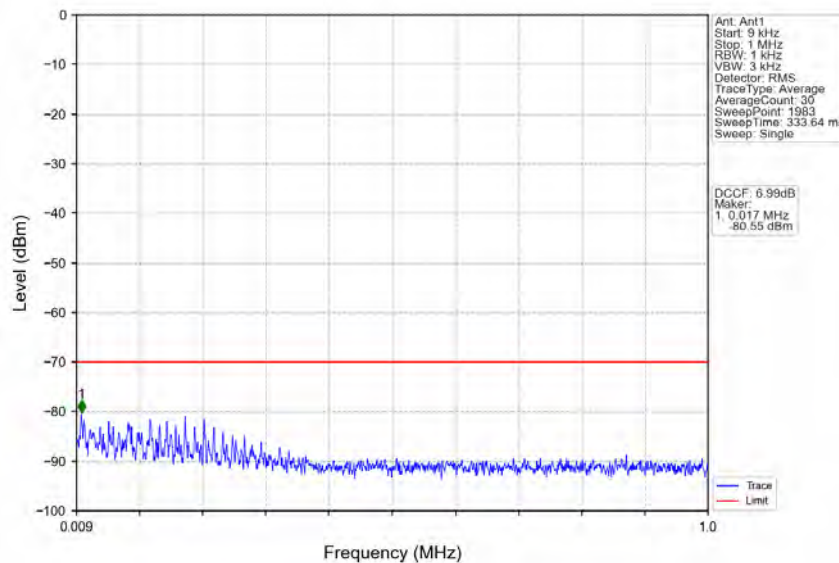
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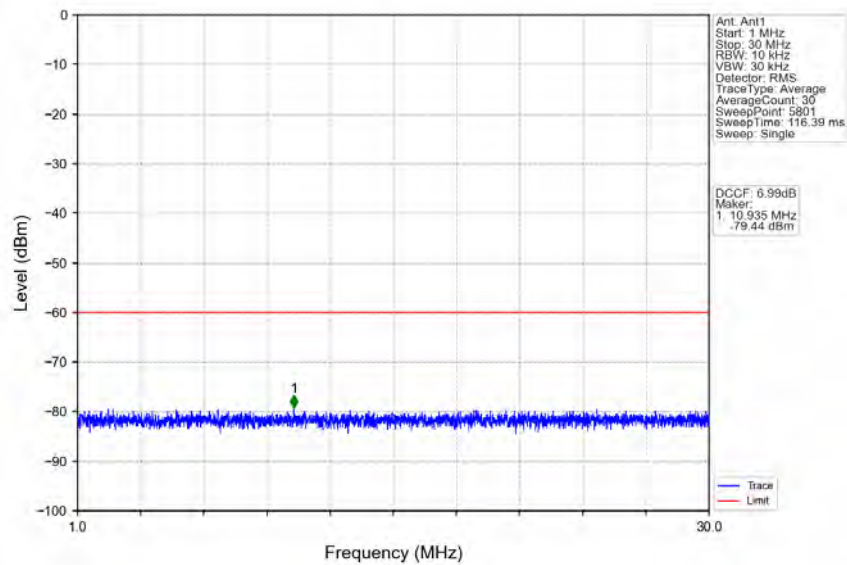
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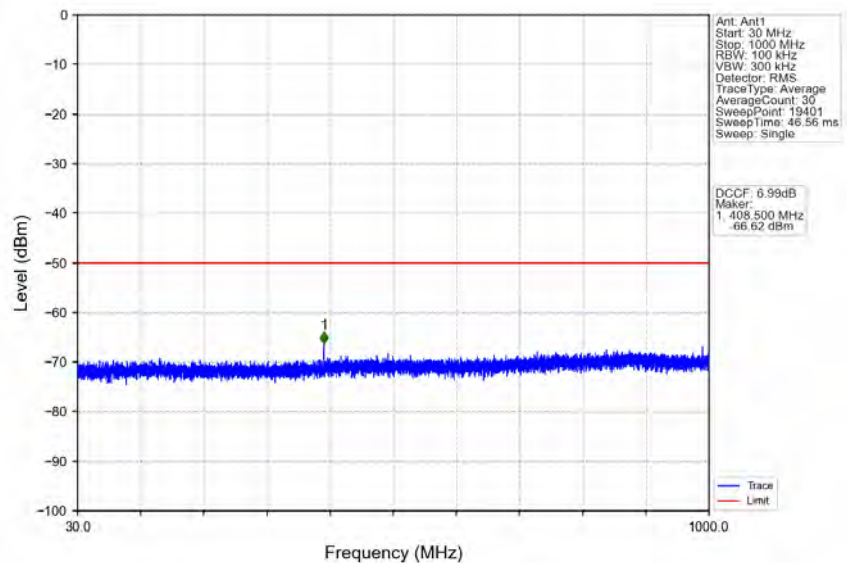


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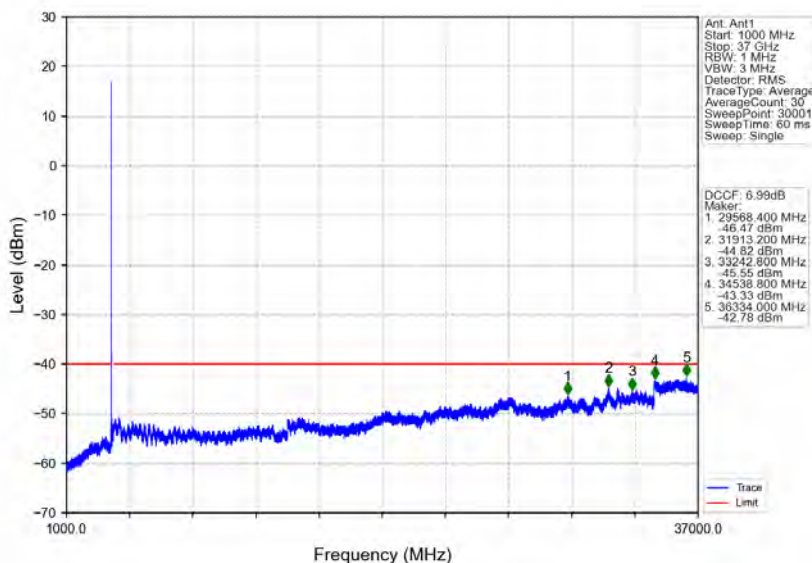
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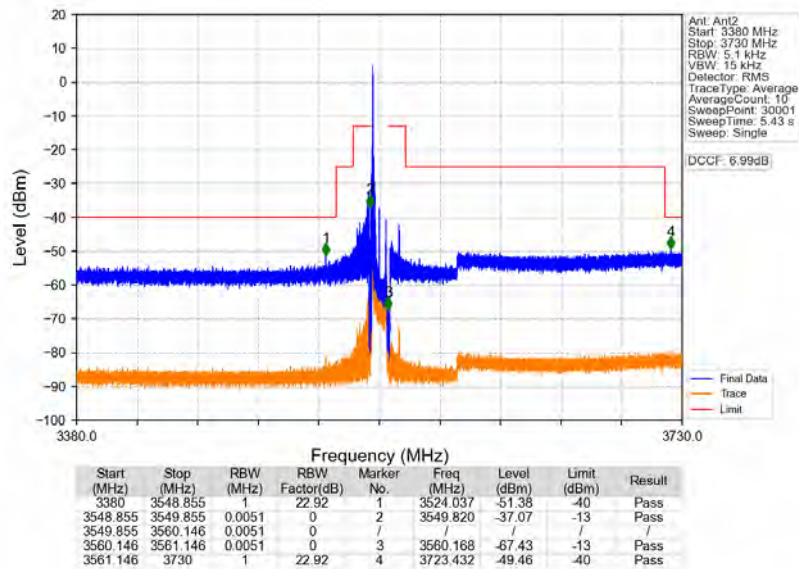
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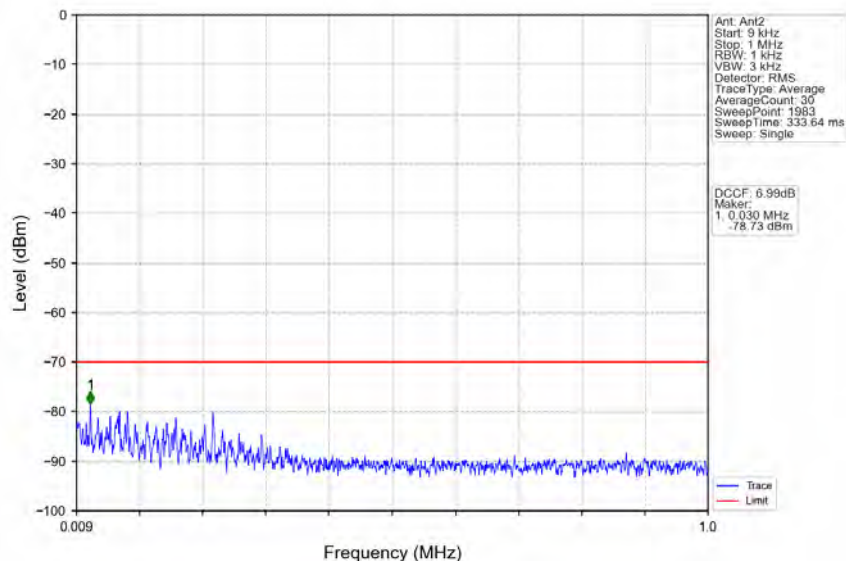
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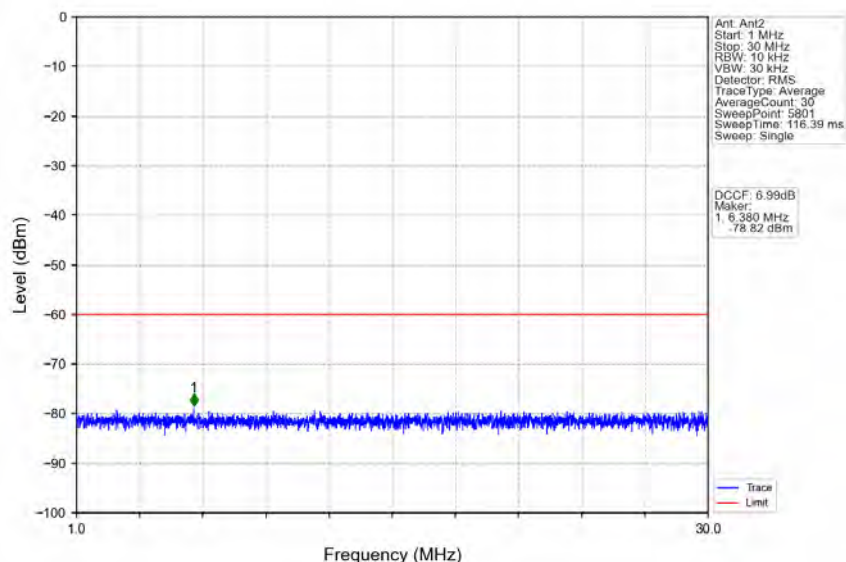
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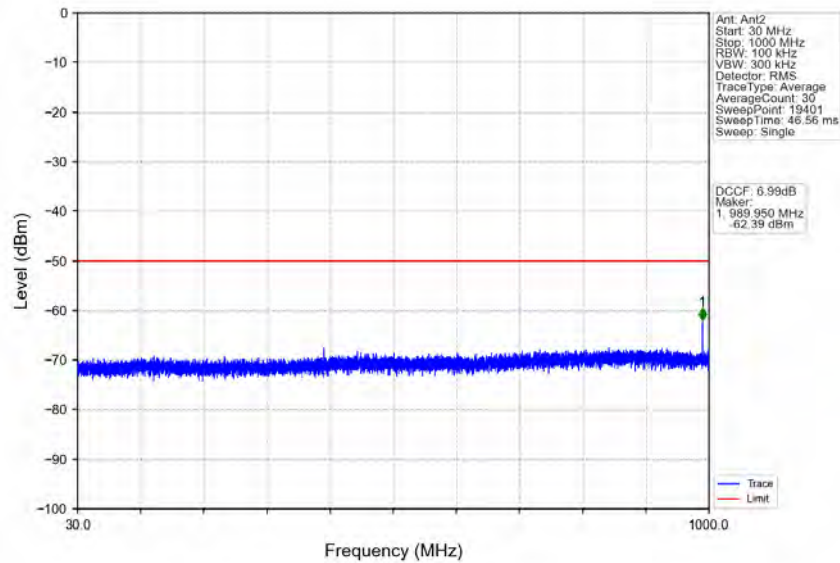
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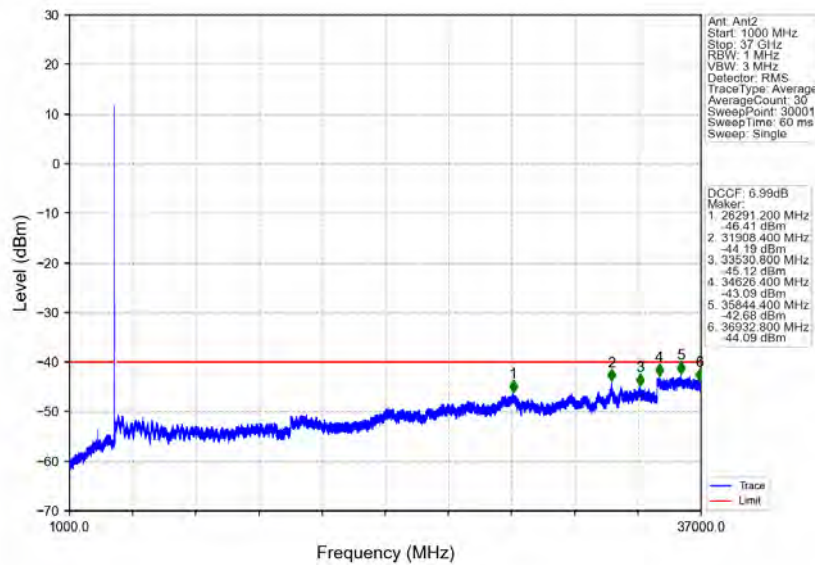
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