



Report No.: SZCR240100038409
Rev.: 01
Page: 1 of 237

Appendix B.36

NR Band n13



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Report No.: SZCR240100038409

Rev.: 01

Page: 2 of 237

1. Effective (Isotropic) Radiated Power Output Data

1.1 15k_SISO_5MHz_NTNV_ERP

1.1.1 Test Result

5G NR n13 SCS=15kHz SISO 5MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	779.5	Edge_1RB_Left	23.04	/	/	23.49	/	/	<=34.77	Pass
		Edge_1RB_Right	23.04	/	/	23.49	/	/	<=34.77	Pass
		Outer_Full	22.97	/	/	23.42	/	/	<=34.77	Pass
		Inner_Full	23.03	/	/	23.48	/	/	<=34.77	Pass
		Inner_1RB_Left	22.98	/	/	23.43	/	/	<=34.77	Pass
		Inner_1RB_Right	23.12	/	/	23.57	/	/	<=34.77	Pass
	782	Edge_1RB_Left	22.97	/	/	23.42	/	/	<=34.77	Pass
		Edge_1RB_Right	23.04	/	/	23.49	/	/	<=34.77	Pass
		Outer_Full	23.09	/	/	23.54	/	/	<=34.77	Pass
		Inner_Full	23.08	/	/	23.53	/	/	<=34.77	Pass
		Inner_1RB_Left	22.99	/	/	23.44	/	/	<=34.77	Pass
		Inner_1RB_Right	23.04	/	/	23.49	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	23.09	/	/	23.54	/	/	<=34.77	Pass
		Edge_1RB_Right	23.13	/	/	23.58	/	/	<=34.77	Pass
		Outer_Full	23.10	/	/	23.55	/	/	<=34.77	Pass
		Inner_Full	23.05	/	/	23.5	/	/	<=34.77	Pass
		Inner_1RB_Left	23.07	/	/	23.52	/	/	<=34.77	Pass
		Inner_1RB_Right	23.11	/	/	23.56	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	779.5	Edge_1RB_Left	22.54	/	/	22.99	/	/	<=34.77	Pass
		Edge_1RB_Right	22.55	/	/	23	/	/	<=34.77	Pass
		Outer_Full	21.00	/	/	21.45	/	/	<=34.77	Pass
		Inner_Full	23.01	/	/	23.46	/	/	<=34.77	Pass
		Inner_1RB_Left	22.99	/	/	23.44	/	/	<=34.77	Pass
		Inner_1RB_Right	23.09	/	/	23.54	/	/	<=34.77	Pass
	782	Edge_1RB_Left	22.49	/	/	22.94	/	/	<=34.77	Pass
		Edge_1RB_Right	22.58	/	/	23.03	/	/	<=34.77	Pass
		Outer_Full	21.08	/	/	21.53	/	/	<=34.77	Pass
		Inner_Full	23.09	/	/	23.54	/	/	<=34.77	Pass
		Inner_1RB_Left	22.96	/	/	23.41	/	/	<=34.77	Pass
		Inner_1RB_Right	23.11	/	/	23.56	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	22.53	/	/	22.98	/	/	<=34.77	Pass
		Edge_1RB_Right	22.59	/	/	23.04	/	/	<=34.77	Pass
		Outer_Full	20.99	/	/	21.44	/	/	<=34.77	Pass
		Inner_Full	23.05	/	/	23.5	/	/	<=34.77	Pass
		Inner_1RB_Left	23.06	/	/	23.51	/	/	<=34.77	Pass
		Inner_1RB_Right	23.13	/	/	23.58	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	779.5	Edge_1RB_Left	21.52	/	/	21.97	/	/	<=34.77	Pass



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Report No.: SZCR240100038409

Rev.: 01

Page: 3 of 237

		Edge_1RB_Right	21.63	/	/	22.08	/	/	<=34.77	Pass
		Outer_Full	20.03	/	/	20.48	/	/	<=34.77	Pass
		Inner_Full	22.60	/	/	23.05	/	/	<=34.77	Pass
		Inner_1RB_Left	22.47	/	/	22.92	/	/	<=34.77	Pass
		Inner_1RB_Right	22.51	/	/	22.96	/	/	<=34.77	Pass
	782	Edge_1RB_Left	21.53	/	/	21.98	/	/	<=34.77	Pass
		Edge_1RB_Right	21.66	/	/	22.11	/	/	<=34.77	Pass
		Outer_Full	20.02	/	/	20.47	/	/	<=34.77	Pass
		Inner_Full	22.61	/	/	23.06	/	/	<=34.77	Pass
		Inner_1RB_Left	22.46	/	/	22.91	/	/	<=34.77	Pass
	784.5	Inner_1RB_Right	22.62	/	/	23.07	/	/	<=34.77	Pass
		Edge_1RB_Left	21.54	/	/	21.99	/	/	<=34.77	Pass
		Edge_1RB_Right	21.69	/	/	22.14	/	/	<=34.77	Pass
		Outer_Full	20.12	/	/	20.57	/	/	<=34.77	Pass
		Inner_Full	22.63	/	/	23.08	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	779.5	Inner_1RB_Left	22.60	/	/	23.05	/	/	<=34.77	Pass
		Inner_1RB_Right	22.61	/	/	23.06	/	/	<=34.77	Pass
		Edge_1RB_Left	21.30	/	/	21.75	/	/	<=34.77	Pass
		Edge_1RB_Right	21.29	/	/	21.74	/	/	<=34.77	Pass
		Outer_Full	19.50	/	/	19.95	/	/	<=34.77	Pass
	782	Inner_Full	21.12	/	/	21.57	/	/	<=34.77	Pass
		Inner_1RB_Left	21.31	/	/	21.76	/	/	<=34.77	Pass
		Inner_1RB_Right	21.28	/	/	21.73	/	/	<=34.77	Pass
		Edge_1RB_Left	21.19	/	/	21.64	/	/	<=34.77	Pass
		Edge_1RB_Right	21.26	/	/	21.71	/	/	<=34.77	Pass
	784.5	Outer_Full	19.51	/	/	19.96	/	/	<=34.77	Pass
		Inner_Full	21.09	/	/	21.54	/	/	<=34.77	Pass
		Inner_1RB_Left	21.23	/	/	21.68	/	/	<=34.77	Pass
		Inner_1RB_Right	21.29	/	/	21.74	/	/	<=34.77	Pass
		Edge_1RB_Left	21.30	/	/	21.75	/	/	<=34.77	Pass
	Edge_1RB_Right	21.24	/	/	21.69	/	/	<=34.77	Pass	
	Outer_Full	19.61	/	/	20.06	/	/	<=34.77	Pass	
	Inner_Full	21.12	/	/	21.57	/	/	<=34.77	Pass	
	Inner_1RB_Left	21.22	/	/	21.67	/	/	<=34.77	Pass	
	Inner_1RB_Right	21.26	/	/	21.71	/	/	<=34.77	Pass	
DFT-s-OFDM 256 QAM	779.5	Edge_1RB_Left	18.47	/	/	18.92	/	/	<=34.77	Pass
		Edge_1RB_Right	18.51	/	/	18.96	/	/	<=34.77	Pass
		Outer_Full	16.39	/	/	16.84	/	/	<=34.77	Pass
		Inner_Full	18.95	/	/	19.4	/	/	<=34.77	Pass
		Inner_1RB_Left	18.46	/	/	18.91	/	/	<=34.77	Pass
	782	Inner_1RB_Right	18.53	/	/	18.98	/	/	<=34.77	Pass
		Edge_1RB_Left	18.45	/	/	18.9	/	/	<=34.77	Pass
		Edge_1RB_Right	18.58	/	/	19.03	/	/	<=34.77	Pass
		Outer_Full	16.51	/	/	16.96	/	/	<=34.77	Pass
		Inner_Full	19.11	/	/	19.56	/	/	<=34.77	Pass
	784.5	Inner_1RB_Left	18.44	/	/	18.89	/	/	<=34.77	Pass
		Inner_1RB_Right	18.53	/	/	18.98	/	/	<=34.77	Pass
		Edge_1RB_Left	18.49	/	/	18.94	/	/	<=34.77	Pass



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Report No.: SZCR240100038409

Rev.: 01

Page: 4 of 237

		Edge_1RB_Right	18.62	/	/	19.07	/	/	<=34.77	Pass
		Outer_Full	16.56	/	/	17.01	/	/	<=34.77	Pass
		Inner_Full	19.04	/	/	19.49	/	/	<=34.77	Pass
		Inner_1RB_Left	18.55	/	/	19	/	/	<=34.77	Pass
		Inner_1RB_Right	18.53	/	/	18.98	/	/	<=34.77	Pass
CP-OFDM QPSK	779.5	Edge_1RB_Left	20.52	/	/	20.97	/	/	<=34.77	Pass
		Edge_1RB_Right	20.55	/	/	21	/	/	<=34.77	Pass
		Outer_Full	20.55	/	/	21	/	/	<=34.77	Pass
		Inner_Full	22.02	/	/	22.47	/	/	<=34.77	Pass
		Inner_1RB_Left	21.84	/	/	22.29	/	/	<=34.77	Pass
	782	Inner_1RB_Right	22.01	/	/	22.46	/	/	<=34.77	Pass
		Edge_1RB_Left	20.34	/	/	20.79	/	/	<=34.77	Pass
		Edge_1RB_Right	20.56	/	/	21.01	/	/	<=34.77	Pass
		Outer_Full	20.56	/	/	21.01	/	/	<=34.77	Pass
		Inner_Full	22.09	/	/	22.54	/	/	<=34.77	Pass
	784.5	Inner_1RB_Left	21.86	/	/	22.31	/	/	<=34.77	Pass
		Inner_1RB_Right	22.12	/	/	22.57	/	/	<=34.77	Pass
		Edge_1RB_Left	20.52	/	/	20.97	/	/	<=34.77	Pass
		Edge_1RB_Right	20.57	/	/	21.02	/	/	<=34.77	Pass
		Outer_Full	20.50	/	/	20.95	/	/	<=34.77	Pass
CP-OFDM 16 QAM	779.5	Inner_Full	22.08	/	/	22.53	/	/	<=34.77	Pass
		Inner_1RB_Left	21.96	/	/	22.41	/	/	<=34.77	Pass
		Inner_1RB_Right	22.18	/	/	22.63	/	/	<=34.77	Pass
		Edge_1RB_Left	20.61	/	/	21.06	/	/	<=34.77	Pass
		Edge_1RB_Right	20.57	/	/	21.02	/	/	<=34.77	Pass
	782	Outer_Full	18.55	/	/	19	/	/	<=34.77	Pass
		Inner_Full	21.43	/	/	21.88	/	/	<=34.77	Pass
		Inner_1RB_Left	21.68	/	/	22.13	/	/	<=34.77	Pass
		Inner_1RB_Right	21.52	/	/	21.97	/	/	<=34.77	Pass
		Edge_1RB_Left	20.45	/	/	20.9	/	/	<=34.77	Pass
	784.5	Edge_1RB_Right	20.60	/	/	21.05	/	/	<=34.77	Pass
		Outer_Full	18.63	/	/	19.08	/	/	<=34.77	Pass
		Inner_Full	21.47	/	/	21.92	/	/	<=34.77	Pass
		Inner_1RB_Left	21.54	/	/	21.99	/	/	<=34.77	Pass
		Inner_1RB_Right	21.72	/	/	22.17	/	/	<=34.77	Pass
CP-OFDM 64 QAM	779.5	Edge_1RB_Left	20.68	/	/	21.13	/	/	<=34.77	Pass
		Edge_1RB_Right	20.68	/	/	21.13	/	/	<=34.77	Pass
		Outer_Full	18.52	/	/	18.97	/	/	<=34.77	Pass
		Inner_Full	21.50	/	/	21.95	/	/	<=34.77	Pass
		Inner_1RB_Left	21.72	/	/	22.17	/	/	<=34.77	Pass
	782	Inner_1RB_Right	21.76	/	/	22.21	/	/	<=34.77	Pass
		Edge_1RB_Left	20.09	/	/	20.54	/	/	<=34.77	Pass
		Edge_1RB_Right	20.13	/	/	20.58	/	/	<=34.77	Pass
		Outer_Full	18.04	/	/	18.49	/	/	<=34.77	Pass
		Inner_Full	20.07	/	/	20.52	/	/	<=34.77	Pass
		Inner_1RB_Left	20.11	/	/	20.56	/	/	<=34.77	Pass
		Inner_1RB_Right	20.07	/	/	20.52	/	/	<=34.77	Pass
	782	Edge_1RB_Left	20.03	/	/	20.48	/	/	<=34.77	Pass



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Rev.: 01
Page: 5 of 237

CP-OFDM 256 QAM	784.5	Edge_1RB_Right	20.13	/	/	20.58	/	/	<=34.77	Pass
		Outer_Full	17.93	/	/	18.38	/	/	<=34.77	Pass
		Inner_Full	20.01	/	/	20.46	/	/	<=34.77	Pass
		Inner_1RB_Left	19.96	/	/	20.41	/	/	<=34.77	Pass
		Inner_1RB_Right	20.09	/	/	20.54	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	20.10	/	/	20.55	/	/	<=34.77	Pass
		Edge_1RB_Right	20.09	/	/	20.54	/	/	<=34.77	Pass
		Outer_Full	18.01	/	/	18.46	/	/	<=34.77	Pass
		Inner_Full	20.10	/	/	20.55	/	/	<=34.77	Pass
		Inner_1RB_Left	20.07	/	/	20.52	/	/	<=34.77	Pass
	779.5	Inner_1RB_Right	20.08	/	/	20.53	/	/	<=34.77	Pass
		Edge_1RB_Left	16.62	/	/	17.07	/	/	<=34.77	Pass
		Edge_1RB_Right	16.68	/	/	17.13	/	/	<=34.77	Pass
		Outer_Full	15.13	/	/	15.58	/	/	<=34.77	Pass
		Inner_Full	17.06	/	/	17.51	/	/	<=34.77	Pass
782	Inner_1RB_Left	16.60	/	/	17.05	/	/	<=34.77	Pass	
	Inner_1RB_Right	16.69	/	/	17.14	/	/	<=34.77	Pass	
	Edge_1RB_Left	16.57	/	/	17.02	/	/	<=34.77	Pass	
	Edge_1RB_Right	16.66	/	/	17.11	/	/	<=34.77	Pass	
	Outer_Full	15.15	/	/	15.6	/	/	<=34.77	Pass	
784.5	Inner_Full	17.13	/	/	17.58	/	/	<=34.77	Pass	
	Inner_1RB_Left	16.53	/	/	16.98	/	/	<=34.77	Pass	
	Inner_1RB_Right	16.68	/	/	17.13	/	/	<=34.77	Pass	
	Edge_1RB_Left	16.73	/	/	17.18	/	/	<=34.77	Pass	
	Edge_1RB_Right	16.76	/	/	17.21	/	/	<=34.77	Pass	
784.5	Outer_Full	15.18	/	/	15.63	/	/	<=34.77	Pass	
	Inner_Full	17.11	/	/	17.56	/	/	<=34.77	Pass	
	Inner_1RB_Left	16.67	/	/	17.12	/	/	<=34.77	Pass	
	Inner_1RB_Right	16.78	/	/	17.23	/	/	<=34.77	Pass	

Note1: Antenna Gain: Ant4: 2.6dBi;
Note2: ERP=Conducted Power+Antenna Gain-2.15

1.2 15k_SISO_10MHz_NTNV_ERP

1.2.1 Test Result

5G NR n13 SCS=15kHz SISO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	782	Edge_1RB_Left	23.08	/	/	23.53	/	/	<=34.77	Pass
		Edge_1RB_Right	23.13	/	/	23.58	/	/	<=34.77	Pass
		Outer_Full	22.99	/	/	23.44	/	/	<=34.77	Pass
		Inner_Full	23.03	/	/	23.48	/	/	<=34.77	Pass
		Inner_1RB_Left	23.03	/	/	23.48	/	/	<=34.77	Pass
	Inner_1RB_Right	23.10	/	/	23.55	/	/	<=34.77	Pass	
	782	Edge_1RB_Left	23.06	/	/	23.51	/	/	<=34.77	Pass



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Report No.: SZCR240100038409

Rev.: 01

Page: 6 of 237

		Edge_1RB_Right	23.15	/	/	23.6	/	/	<=34.77	Pass
		Outer_Full	23.11	/	/	23.56	/	/	<=34.77	Pass
		Inner_Full	23.15	/	/	23.6	/	/	<=34.77	Pass
		Inner_1RB_Left	23.08	/	/	23.53	/	/	<=34.77	Pass
		Inner_1RB_Right	23.13	/	/	23.58	/	/	<=34.77	Pass
	782	Edge_1RB_Left	23.09	/	/	23.54	/	/	<=34.77	Pass
		Edge_1RB_Right	23.13	/	/	23.58	/	/	<=34.77	Pass
		Outer_Full	23.22	/	/	23.67	/	/	<=34.77	Pass
		Inner_Full	23.11	/	/	23.56	/	/	<=34.77	Pass
		Inner_1RB_Left	23.13	/	/	23.58	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	782	Inner_1RB_Right	23.23	/	/	23.68	/	/	<=34.77	Pass
		Edge_1RB_Left	22.52	/	/	22.97	/	/	<=34.77	Pass
		Edge_1RB_Right	22.64	/	/	23.09	/	/	<=34.77	Pass
		Outer_Full	21.05	/	/	21.5	/	/	<=34.77	Pass
		Inner_Full	22.98	/	/	23.43	/	/	<=34.77	Pass
	782	Inner_1RB_Left	23.02	/	/	23.47	/	/	<=34.77	Pass
		Inner_1RB_Right	23.11	/	/	23.56	/	/	<=34.77	Pass
		Edge_1RB_Left	22.57	/	/	23.02	/	/	<=34.77	Pass
		Edge_1RB_Right	22.63	/	/	23.08	/	/	<=34.77	Pass
		Outer_Full	21.05	/	/	21.5	/	/	<=34.77	Pass
782	Inner_Full	23.06	/	/	23.51	/	/	<=34.77	Pass	
	Inner_1RB_Left	23.00	/	/	23.45	/	/	<=34.77	Pass	
	Inner_1RB_Right	23.19	/	/	23.64	/	/	<=34.77	Pass	
	Edge_1RB_Left	22.61	/	/	23.06	/	/	<=34.77	Pass	
	Edge_1RB_Right	22.70	/	/	23.15	/	/	<=34.77	Pass	
DFT-s-OFDM 16 QAM	782	Outer_Full	21.17	/	/	21.62	/	/	<=34.77	Pass
		Inner_Full	23.16	/	/	23.61	/	/	<=34.77	Pass
		Inner_1RB_Left	23.04	/	/	23.49	/	/	<=34.77	Pass
		Inner_1RB_Right	23.22	/	/	23.67	/	/	<=34.77	Pass
		Edge_1RB_Left	21.54	/	/	21.99	/	/	<=34.77	Pass
	782	Edge_1RB_Right	21.77	/	/	22.22	/	/	<=34.77	Pass
		Outer_Full	20.04	/	/	20.49	/	/	<=34.77	Pass
		Inner_Full	22.59	/	/	23.04	/	/	<=34.77	Pass
		Inner_1RB_Left	22.46	/	/	22.91	/	/	<=34.77	Pass
		Inner_1RB_Right	22.62	/	/	23.07	/	/	<=34.77	Pass
782	Edge_1RB_Left	21.56	/	/	22.01	/	/	<=34.77	Pass	
	Edge_1RB_Right	21.76	/	/	22.21	/	/	<=34.77	Pass	
	Outer_Full	20.06	/	/	20.51	/	/	<=34.77	Pass	
	Inner_Full	22.61	/	/	23.06	/	/	<=34.77	Pass	
	Inner_1RB_Left	22.56	/	/	23.01	/	/	<=34.77	Pass	
782	Inner_1RB_Right	22.62	/	/	23.07	/	/	<=34.77	Pass	
	Edge_1RB_Left	21.66	/	/	22.11	/	/	<=34.77	Pass	
	Edge_1RB_Right	21.68	/	/	22.13	/	/	<=34.77	Pass	
	Outer_Full	20.16	/	/	20.61	/	/	<=34.77	Pass	
	Inner_Full	22.72	/	/	23.17	/	/	<=34.77	Pass	
DFT-s-OFDM 64 QAM	782	Inner_1RB_Left	22.53	/	/	22.98	/	/	<=34.77	Pass
		Inner_1RB_Right	22.65	/	/	23.1	/	/	<=34.77	Pass
	782	Edge_1RB_Left	21.33	/	/	21.78	/	/	<=34.77	Pass



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Report No.: SZCR240100038409

Rev.: 01

Page: 7 of 237

		Edge_1RB_Right	21.34	/	/	21.79	/	/	<=34.77	Pass
		Outer_Full	19.60	/	/	20.05	/	/	<=34.77	Pass
		Inner_Full	20.96	/	/	21.41	/	/	<=34.77	Pass
		Inner_1RB_Left	21.31	/	/	21.76	/	/	<=34.77	Pass
		Inner_1RB_Right	21.27	/	/	21.72	/	/	<=34.77	Pass
	782	Edge_1RB_Left	21.27	/	/	21.72	/	/	<=34.77	Pass
		Edge_1RB_Right	21.32	/	/	21.77	/	/	<=34.77	Pass
		Outer_Full	19.54	/	/	19.99	/	/	<=34.77	Pass
		Inner_Full	21.01	/	/	21.46	/	/	<=34.77	Pass
		Inner_1RB_Left	21.32	/	/	21.77	/	/	<=34.77	Pass
	782	Inner_1RB_Right	21.28	/	/	21.73	/	/	<=34.77	Pass
		Edge_1RB_Left	21.32	/	/	21.77	/	/	<=34.77	Pass
		Edge_1RB_Right	21.32	/	/	21.77	/	/	<=34.77	Pass
		Outer_Full	19.70	/	/	20.15	/	/	<=34.77	Pass
		Inner_Full	21.17	/	/	21.62	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	782	Inner_1RB_Left	21.41	/	/	21.86	/	/	<=34.77	Pass
		Inner_1RB_Right	21.50	/	/	21.95	/	/	<=34.77	Pass
		Edge_1RB_Left	18.54	/	/	18.99	/	/	<=34.77	Pass
		Edge_1RB_Right	18.64	/	/	19.09	/	/	<=34.77	Pass
		Outer_Full	16.54	/	/	16.99	/	/	<=34.77	Pass
	782	Inner_Full	18.93	/	/	19.38	/	/	<=34.77	Pass
		Inner_1RB_Left	18.52	/	/	18.97	/	/	<=34.77	Pass
		Inner_1RB_Right	18.62	/	/	19.07	/	/	<=34.77	Pass
		Edge_1RB_Left	18.54	/	/	18.99	/	/	<=34.77	Pass
		Edge_1RB_Right	18.55	/	/	19	/	/	<=34.77	Pass
	782	Outer_Full	16.60	/	/	17.05	/	/	<=34.77	Pass
		Inner_Full	19.11	/	/	19.56	/	/	<=34.77	Pass
		Inner_1RB_Left	18.50	/	/	18.95	/	/	<=34.77	Pass
		Inner_1RB_Right	18.61	/	/	19.06	/	/	<=34.77	Pass
		Edge_1RB_Left	18.69	/	/	19.14	/	/	<=34.77	Pass
782	Edge_1RB_Right	18.66	/	/	19.11	/	/	<=34.77	Pass	
	Outer_Full	16.62	/	/	17.07	/	/	<=34.77	Pass	
	Inner_Full	19.10	/	/	19.55	/	/	<=34.77	Pass	
	Inner_1RB_Left	18.64	/	/	19.09	/	/	<=34.77	Pass	
	Inner_1RB_Right	18.72	/	/	19.17	/	/	<=34.77	Pass	
CP-OFDM QPSK	782	Edge_1RB_Left	20.41	/	/	20.86	/	/	<=34.77	Pass
		Edge_1RB_Right	20.54	/	/	20.99	/	/	<=34.77	Pass
		Outer_Full	20.69	/	/	21.14	/	/	<=34.77	Pass
		Inner_Full	22.00	/	/	22.45	/	/	<=34.77	Pass
		Inner_1RB_Left	21.86	/	/	22.31	/	/	<=34.77	Pass
	782	Inner_1RB_Right	21.99	/	/	22.44	/	/	<=34.77	Pass
		Edge_1RB_Left	20.51	/	/	20.96	/	/	<=34.77	Pass
		Edge_1RB_Right	20.55	/	/	21	/	/	<=34.77	Pass
		Outer_Full	20.58	/	/	21.03	/	/	<=34.77	Pass
		Inner_Full	22.05	/	/	22.5	/	/	<=34.77	Pass
	782	Inner_1RB_Left	21.90	/	/	22.35	/	/	<=34.77	Pass
		Inner_1RB_Right	22.02	/	/	22.47	/	/	<=34.77	Pass
		Edge_1RB_Left	20.57	/	/	21.02	/	/	<=34.77	Pass



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Report No.: SZCR240100038409

Rev.: 01

Page: 8 of 237

		Edge_1RB_Right	20.60	/	/	21.05	/	/	<=34.77	Pass
		Outer_Full	20.68	/	/	21.13	/	/	<=34.77	Pass
		Inner_Full	22.11	/	/	22.56	/	/	<=34.77	Pass
		Inner_1RB_Left	22.01	/	/	22.46	/	/	<=34.77	Pass
		Inner_1RB_Right	22.27	/	/	22.72	/	/	<=34.77	Pass
CP-OFDM 16 QAM	782	Edge_1RB_Left	20.68	/	/	21.13	/	/	<=34.77	Pass
		Edge_1RB_Right	20.57	/	/	21.02	/	/	<=34.77	Pass
		Outer_Full	18.59	/	/	19.04	/	/	<=34.77	Pass
		Inner_Full	21.50	/	/	21.95	/	/	<=34.77	Pass
		Inner_1RB_Left	21.63	/	/	22.08	/	/	<=34.77	Pass
	782	Inner_1RB_Right	21.77	/	/	22.22	/	/	<=34.77	Pass
		Edge_1RB_Left	20.65	/	/	21.1	/	/	<=34.77	Pass
		Edge_1RB_Right	20.60	/	/	21.05	/	/	<=34.77	Pass
		Outer_Full	18.70	/	/	19.15	/	/	<=34.77	Pass
		Inner_Full	21.69	/	/	22.14	/	/	<=34.77	Pass
	782	Inner_1RB_Left	21.66	/	/	22.11	/	/	<=34.77	Pass
		Inner_1RB_Right	21.66	/	/	22.11	/	/	<=34.77	Pass
		Edge_1RB_Left	20.64	/	/	21.09	/	/	<=34.77	Pass
		Edge_1RB_Right	20.61	/	/	21.06	/	/	<=34.77	Pass
		Outer_Full	18.68	/	/	19.13	/	/	<=34.77	Pass
CP-OFDM 64 QAM	782	Inner_Full	21.69	/	/	22.14	/	/	<=34.77	Pass
		Inner_1RB_Left	21.71	/	/	22.16	/	/	<=34.77	Pass
		Inner_1RB_Right	21.74	/	/	22.19	/	/	<=34.77	Pass
		Edge_1RB_Left	20.12	/	/	20.57	/	/	<=34.77	Pass
		Edge_1RB_Right	20.08	/	/	20.53	/	/	<=34.77	Pass
	782	Outer_Full	18.17	/	/	18.62	/	/	<=34.77	Pass
		Inner_Full	19.97	/	/	20.42	/	/	<=34.77	Pass
		Inner_1RB_Left	20.10	/	/	20.55	/	/	<=34.77	Pass
		Inner_1RB_Right	20.18	/	/	20.63	/	/	<=34.77	Pass
		Edge_1RB_Left	20.20	/	/	20.65	/	/	<=34.77	Pass
	782	Edge_1RB_Right	20.23	/	/	20.68	/	/	<=34.77	Pass
		Outer_Full	18.22	/	/	18.67	/	/	<=34.77	Pass
		Inner_Full	20.22	/	/	20.67	/	/	<=34.77	Pass
		Inner_1RB_Left	20.19	/	/	20.64	/	/	<=34.77	Pass
		Inner_1RB_Right	20.22	/	/	20.67	/	/	<=34.77	Pass
782	Edge_1RB_Left	20.19	/	/	20.64	/	/	<=34.77	Pass	
	Edge_1RB_Right	20.25	/	/	20.7	/	/	<=34.77	Pass	
	Outer_Full	18.19	/	/	18.64	/	/	<=34.77	Pass	
	Inner_Full	20.17	/	/	20.62	/	/	<=34.77	Pass	
	Inner_1RB_Left	20.14	/	/	20.59	/	/	<=34.77	Pass	
CP-OFDM 256 QAM	782	Inner_1RB_Right	20.18	/	/	20.63	/	/	<=34.77	Pass
		Edge_1RB_Left	16.58	/	/	17.03	/	/	<=34.77	Pass
		Edge_1RB_Right	16.73	/	/	17.18	/	/	<=34.77	Pass
		Outer_Full	15.11	/	/	15.56	/	/	<=34.77	Pass
		Inner_Full	17.10	/	/	17.55	/	/	<=34.77	Pass
	782	Inner_1RB_Left	16.60	/	/	17.05	/	/	<=34.77	Pass
		Inner_1RB_Right	16.79	/	/	17.24	/	/	<=34.77	Pass
		Edge_1RB_Left	16.76	/	/	17.21	/	/	<=34.77	Pass



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Report No.: SZCR240100038409

Rev.: 01

Page: 9 of 237

		Edge_1RB_Right	16.77	/	/	17.22	/	/	<=34.77	Pass
		Outer_Full	15.14	/	/	15.59	/	/	<=34.77	Pass
		Inner_Full	17.17	/	/	17.62	/	/	<=34.77	Pass
		Inner_1RB_Left	16.62	/	/	17.07	/	/	<=34.77	Pass
		Inner_1RB_Right	16.76	/	/	17.21	/	/	<=34.77	Pass
	782	Edge_1RB_Left	16.75	/	/	17.2	/	/	<=34.77	Pass
		Edge_1RB_Right	16.80	/	/	17.25	/	/	<=34.77	Pass
		Outer_Full	15.06	/	/	15.51	/	/	<=34.77	Pass
		Inner_Full	17.19	/	/	17.64	/	/	<=34.77	Pass
		Inner_1RB_Left	16.66	/	/	17.11	/	/	<=34.77	Pass
	Inner_1RB_Right	16.77	/	/	17.22	/	/	<=34.77	Pass	

Note1: Antenna Gain: Ant4: 2.6dBi;

Note2: ERP=Conducted Power+Antenna Gain-2.15



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Report No.: SZCR240100038409

Rev.: 01

Page: 10 of 237

2. Frequency Stability

2.1 15k_SISO_5MHz

2.1.1 Test Result

5G NR n13 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	782	Outer_Full	20	LV	-2.10	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0074	>=-2.5 & <=2.5	Pass
			-30	NV	-3.90	-0.0050	>=-2.5 & <=2.5	Pass
			-20	NV	-1.60	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0043	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0052	>=-2.5 & <=2.5	Pass
			20	NV	2.50	0.0032	>=-2.5 & <=2.5	Pass
			30	NV	0.50	0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-3.70	-0.0047	>=-2.5 & <=2.5	Pass
50	NV	0.30	0.0004	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	782	Outer_Full	20	LV	-1.40	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-2.70	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	1.00	0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-2.90	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-3.70	-0.0047	>=-2.5 & <=2.5	Pass
			10	NV	2.30	0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-3.50	-0.0045	>=-2.5 & <=2.5	Pass
			30	NV	-1.70	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-3.00	-0.0038	>=-2.5 & <=2.5	Pass
50	NV	-1.70	-0.0022	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	782	Outer_Full	20	LV	-2.40	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-2.60	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-2.10	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	3.60	0.0046	>=-2.5 & <=2.5	Pass
			-10	NV	-1.20	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0051	>=-2.5 & <=2.5	Pass
			10	NV	-2.00	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0059	>=-2.5 & <=2.5	Pass
			30	NV	-2.90	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-4.10	-0.0052	>=-2.5 & <=2.5	Pass
50	NV	2.20	0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	782	Outer_Full	20	LV	-4.80	-0.0061	>=-2.5 & <=2.5	Pass
				HV	2.20	0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	1.50	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-2.90	-0.0037	>=-2.5 & <=2.5	Pass



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Report No.: SZCR240100038409
 Rev.: 01
 Page: 11 of 237

			-10	NV	-0.80	-0.0010	>=-2.5 & <=2.5	Pass			
			0	NV	-4.30	-0.0055	>=-2.5 & <=2.5	Pass			
			10	NV	-4.50	-0.0058	>=-2.5 & <=2.5	Pass			
			20	NV	1.20	0.0015	>=-2.5 & <=2.5	Pass			
			30	NV	-1.80	-0.0023	>=-2.5 & <=2.5	Pass			
			40	NV	-4.10	-0.0052	>=-2.5 & <=2.5	Pass			
			50	NV	-3.50	-0.0045	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	782	Outer_Full	20	LV	-2.50	-0.0032	>=-2.5 & <=2.5	Pass			
				HV	3.20	0.0041	>=-2.5 & <=2.5	Pass			
						-30	NV	-3.60	-0.0046	>=-2.5 & <=2.5	Pass
						-20	NV	1.20	0.0015	>=-2.5 & <=2.5	Pass
						-10	NV	-5.00	-0.0064	>=-2.5 & <=2.5	Pass
						0	NV	2.20	0.0028	>=-2.5 & <=2.5	Pass
						10	NV	-0.90	-0.0012	>=-2.5 & <=2.5	Pass
						20	NV	1.10	0.0014	>=-2.5 & <=2.5	Pass
						30	NV	1.60	0.0020	>=-2.5 & <=2.5	Pass
						40	NV	-3.30	-0.0042	>=-2.5 & <=2.5	Pass
			50	NV	-4.70	-0.0060	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	782	Outer_Full	20	LV	-3.20	-0.0041	>=-2.5 & <=2.5	Pass			
				HV	3.90	0.0050	>=-2.5 & <=2.5	Pass			
						-30	NV	-1.90	-0.0024	>=-2.5 & <=2.5	Pass
						-20	NV	-1.40	-0.0018	>=-2.5 & <=2.5	Pass
						-10	NV	-4.10	-0.0052	>=-2.5 & <=2.5	Pass
						0	NV	-2.00	-0.0026	>=-2.5 & <=2.5	Pass
						10	NV	-1.90	-0.0024	>=-2.5 & <=2.5	Pass
						20	NV	-3.50	-0.0045	>=-2.5 & <=2.5	Pass
						30	NV	-2.50	-0.0032	>=-2.5 & <=2.5	Pass
						40	NV	0.60	0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-1.90	-0.0024	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	782	Outer_Full	20	LV	4.00	0.0051	>=-2.5 & <=2.5	Pass			
				HV	-2.60	-0.0033	>=-2.5 & <=2.5	Pass			
						-30	NV	1.90	0.0024	>=-2.5 & <=2.5	Pass
						-20	NV	1.90	0.0024	>=-2.5 & <=2.5	Pass
						-10	NV	-1.20	-0.0015	>=-2.5 & <=2.5	Pass
						0	NV	2.60	0.0033	>=-2.5 & <=2.5	Pass
						10	NV	0.40	0.0005	>=-2.5 & <=2.5	Pass
						20	NV	2.40	0.0031	>=-2.5 & <=2.5	Pass
						30	NV	1.00	0.0013	>=-2.5 & <=2.5	Pass
						40	NV	-1.00	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	1.70	0.0022	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	782	Outer_Full	20	LV	-1.00	-0.0013	>=-2.5 & <=2.5	Pass			
				HV	1.60	0.0020	>=-2.5 & <=2.5	Pass			
						-30	NV	-1.90	-0.0024	>=-2.5 & <=2.5	Pass
						-20	NV	2.00	0.0026	>=-2.5 & <=2.5	Pass
						-10	NV	-1.50	-0.0019	>=-2.5 & <=2.5	Pass
						0	NV	2.60	0.0033	>=-2.5 & <=2.5	Pass
						10	NV	3.50	0.0045	>=-2.5 & <=2.5	Pass
						20	NV	0.20	0.0003	>=-2.5 & <=2.5	Pass



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

Report No.: SZCR240100038409

Rev.: 01

Page: 12 of 237

			30	NV	3.90	0.0050	>=-2.5 & <=2.5	Pass
						40	NV	1.70
			50	NV	1.30	0.0017	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	782	Outer_Full	20	LV	3.60	0.0046	>=-2.5 & <=2.5	Pass
				HV	0.70	0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-1.80	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-1.90	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	1.10	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	0.90	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	3.00	0.0038	>=-2.5 & <=2.5	Pass
			30	NV	1.30	0.0017	>=-2.5 & <=2.5	Pass
			40	NV	4.20	0.0054	>=-2.5 & <=2.5	Pass
			50	NV	1.30	0.0017	>=-2.5 & <=2.5	Pass

2.2 15k_SISO_10MHz

2.2.1 Test Result

5G NR n13 SCS=15kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	782	Outer_Full	20	LV	-2.40	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-1.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0061	>=-2.5 & <=2.5	Pass
			-20	NV	-3.90	-0.0050	>=-2.5 & <=2.5	Pass
			-10	NV	-4.60	-0.0059	>=-2.5 & <=2.5	Pass
			0	NV	1.00	0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-5.40	-0.0069	>=-2.5 & <=2.5	Pass
			20	NV	-0.60	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-2.30	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-4.60	-0.0059	>=-2.5 & <=2.5	Pass
50	NV	-2.20	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	782	Outer_Full	20	LV	-0.70	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0050	>=-2.5 & <=2.5	Pass
			-30	NV	-2.40	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-0.80	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0043	>=-2.5 & <=2.5	Pass
			0	NV	-1.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-5.60	-0.0072	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0041	>=-2.5 & <=2.5	Pass
			30	NV	-3.10	-0.0040	>=-2.5 & <=2.5	Pass
			40	NV	1.80	0.0023	>=-2.5 & <=2.5	Pass
50	NV	0.40	0.0005	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	782	Outer_Full	20	LV	-2.10	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0050	>=-2.5 & <=2.5	Pass



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Report No.: SZCR240100038409

Rev.: 01

Page: 13 of 237

			-30	NV	-2.50	-0.0032	>=-2.5 & <=2.5	Pass			
			-20	NV	1.60	0.0020	>=-2.5 & <=2.5	Pass			
			-10	NV	1.40	0.0018	>=-2.5 & <=2.5	Pass			
			0	NV	-2.90	-0.0037	>=-2.5 & <=2.5	Pass			
			10	NV	-3.00	-0.0038	>=-2.5 & <=2.5	Pass			
			20	NV	1.20	0.0015	>=-2.5 & <=2.5	Pass			
			30	NV	-2.40	-0.0031	>=-2.5 & <=2.5	Pass			
			40	NV	-4.90	-0.0063	>=-2.5 & <=2.5	Pass			
			50	NV	-3.40	-0.0043	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	782	Outer_Full	20	LV	-1.20	-0.0015	>=-2.5 & <=2.5	Pass			
				HV	1.90	0.0024	>=-2.5 & <=2.5	Pass			
						-30	NV	-2.10	-0.0027	>=-2.5 & <=2.5	Pass
						-20	NV	-4.60	-0.0059	>=-2.5 & <=2.5	Pass
						-10	NV	-0.90	-0.0012	>=-2.5 & <=2.5	Pass
						0	NV	-1.40	-0.0018	>=-2.5 & <=2.5	Pass
						10	NV	-1.30	-0.0017	>=-2.5 & <=2.5	Pass
						20	NV	0.90	0.0012	>=-2.5 & <=2.5	Pass
						30	NV	-3.50	-0.0045	>=-2.5 & <=2.5	Pass
						40	NV	2.70	0.0035	>=-2.5 & <=2.5	Pass
			50	NV	1.80	0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	782	Outer_Full	20	LV	-2.60	-0.0033	>=-2.5 & <=2.5	Pass			
				HV	-3.00	-0.0038	>=-2.5 & <=2.5	Pass			
						-30	NV	-1.80	-0.0023	>=-2.5 & <=2.5	Pass
						-20	NV	-2.80	-0.0036	>=-2.5 & <=2.5	Pass
						-10	NV	-2.10	-0.0027	>=-2.5 & <=2.5	Pass
						0	NV	-4.90	-0.0063	>=-2.5 & <=2.5	Pass
						10	NV	-4.30	-0.0055	>=-2.5 & <=2.5	Pass
						20	NV	-3.40	-0.0043	>=-2.5 & <=2.5	Pass
						30	NV	-1.30	-0.0017	>=-2.5 & <=2.5	Pass
						40	NV	-3.50	-0.0045	>=-2.5 & <=2.5	Pass
			50	NV	0.90	0.0012	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	782	Outer_Full	20	LV	2.00	0.0026	>=-2.5 & <=2.5	Pass			
				HV	1.90	0.0024	>=-2.5 & <=2.5	Pass			
						-30	NV	-2.70	-0.0035	>=-2.5 & <=2.5	Pass
						-20	NV	2.20	0.0028	>=-2.5 & <=2.5	Pass
						-10	NV	4.00	0.0051	>=-2.5 & <=2.5	Pass
						0	NV	-1.40	-0.0018	>=-2.5 & <=2.5	Pass
						10	NV	1.10	0.0014	>=-2.5 & <=2.5	Pass
						20	NV	-1.00	-0.0013	>=-2.5 & <=2.5	Pass
						30	NV	4.10	0.0052	>=-2.5 & <=2.5	Pass
						40	NV	0.20	0.0003	>=-2.5 & <=2.5	Pass
			50	NV	-0.90	-0.0012	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	782	Outer_Full	20	LV	4.80	0.0061	>=-2.5 & <=2.5	Pass			
				HV	2.60	0.0033	>=-2.5 & <=2.5	Pass			
						-30	NV	4.00	0.0051	>=-2.5 & <=2.5	Pass
						-20	NV	2.60	0.0033	>=-2.5 & <=2.5	Pass
						-10	NV	2.40	0.0031	>=-2.5 & <=2.5	Pass
			0	NV	4.50	0.0058	>=-2.5 & <=2.5	Pass			



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Report No.: SZCR240100038409

Rev.: 01

Page: 14 of 237

			10	NV	6.20	0.0079	$>=-2.5$ & $<=2.5$	Pass			
			20	NV	5.50	0.0070	$>=-2.5$ & $<=2.5$	Pass			
			30	NV	-1.20	-0.0015	$>=-2.5$ & $<=2.5$	Pass			
			40	NV	-2.90	-0.0037	$>=-2.5$ & $<=2.5$	Pass			
			50	NV	2.10	0.0027	$>=-2.5$ & $<=2.5$	Pass			
CP-OFDM 64 QAM	782	Outer_Full	20	LV	-1.60	-0.0020	$>=-2.5$ & $<=2.5$	Pass			
				HV	1.70	0.0022	$>=-2.5$ & $<=2.5$	Pass			
						-30	NV	-0.80	-0.0010	$>=-2.5$ & $<=2.5$	Pass
						-20	NV	-0.70	-0.0009	$>=-2.5$ & $<=2.5$	Pass
						-10	NV	1.60	0.0020	$>=-2.5$ & $<=2.5$	Pass
						0	NV	-0.40	-0.0005	$>=-2.5$ & $<=2.5$	Pass
						10	NV	-3.00	-0.0038	$>=-2.5$ & $<=2.5$	Pass
						20	NV	2.70	0.0035	$>=-2.5$ & $<=2.5$	Pass
						30	NV	1.20	0.0015	$>=-2.5$ & $<=2.5$	Pass
						40	NV	-1.30	-0.0017	$>=-2.5$ & $<=2.5$	Pass
						50	NV	-1.80	-0.0023	$>=-2.5$ & $<=2.5$	Pass
CP-OFDM 256 QAM	782	Outer_Full	20	LV	3.00	0.0038	$>=-2.5$ & $<=2.5$	Pass			
				HV	1.90	0.0024	$>=-2.5$ & $<=2.5$	Pass			
						-30	NV	4.60	0.0059	$>=-2.5$ & $<=2.5$	Pass
						-20	NV	-0.90	-0.0012	$>=-2.5$ & $<=2.5$	Pass
						-10	NV	-0.80	-0.0010	$>=-2.5$ & $<=2.5$	Pass
						0	NV	2.00	0.0026	$>=-2.5$ & $<=2.5$	Pass
						10	NV	2.70	0.0035	$>=-2.5$ & $<=2.5$	Pass
						20	NV	0.70	0.0009	$>=-2.5$ & $<=2.5$	Pass
						30	NV	2.70	0.0035	$>=-2.5$ & $<=2.5$	Pass
						40	NV	1.10	0.0014	$>=-2.5$ & $<=2.5$	Pass
						50	NV	1.20	0.0015	$>=-2.5$ & $<=2.5$	Pass



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Report No.: SZCR240100038409

Rev.: 01

Page: 15 of 237

3. 99% & 26dB Bandwidth

3.1 15k_SISO_5MHz_NTNV

3.1.1 Test Result

5G NR n13 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	779.5	Outer Full	4.53	5.07	/	Pass
	782	Outer Full	4.53	5.06	/	Pass
	784.5	Outer Full	4.53	5.07	/	Pass
DFT-s-OFDM QPSK	779.5	Outer Full	4.53	5.02	/	Pass
	782	Outer Full	4.51	5.03	/	Pass
	784.5	Outer Full	4.55	5.06	/	Pass
DFT-s-OFDM 16 QAM	779.5	Outer Full	4.55	5.03	/	Pass
	782	Outer Full	4.54	5.02	/	Pass
	784.5	Outer Full	4.55	5.08	/	Pass
DFT-s-OFDM 64 QAM	779.5	Outer Full	4.53	5.07	/	Pass
	782	Outer Full	4.52	5.02	/	Pass
	784.5	Outer Full	4.54	5.03	/	Pass
DFT-s-OFDM 256 QAM	779.5	Outer Full	4.51	5.03	/	Pass
	782	Outer Full	4.51	5.05	/	Pass
	784.5	Outer Full	4.51	5.03	/	Pass
CP-OFDM QPSK	779.5	Outer Full	4.50	5.03	/	Pass
	782	Outer Full	4.52	5.10	/	Pass
	784.5	Outer Full	4.52	5.05	/	Pass
CP-OFDM 16 QAM	779.5	Outer Full	4.56	5.08	/	Pass
	782	Outer Full	4.54	5.08	/	Pass
	784.5	Outer Full	4.54	5.08	/	Pass
CP-OFDM 64 QAM	779.5	Outer Full	4.52	5.08	/	Pass
	782	Outer Full	4.52	5.07	/	Pass
	784.5	Outer Full	4.53	5.11	/	Pass
CP-OFDM 256 QAM	779.5	Outer Full	4.52	5.04	/	Pass
	782	Outer Full	4.54	5.08	/	Pass
	784.5	Outer Full	4.54	5.08	/	Pass



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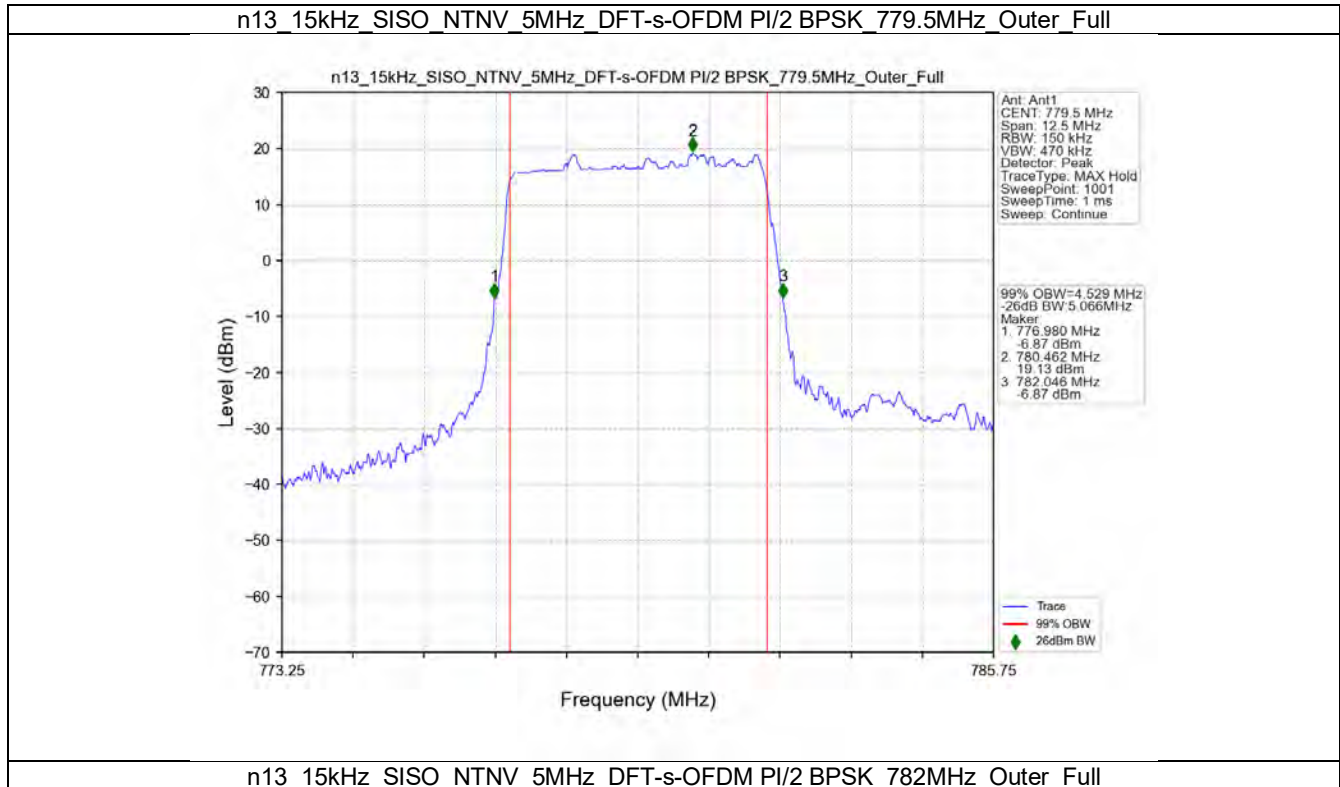
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Report No.: SZCR240100038409

Rev.: 01

Page: 16 of 237

3.1.2 Test Graph



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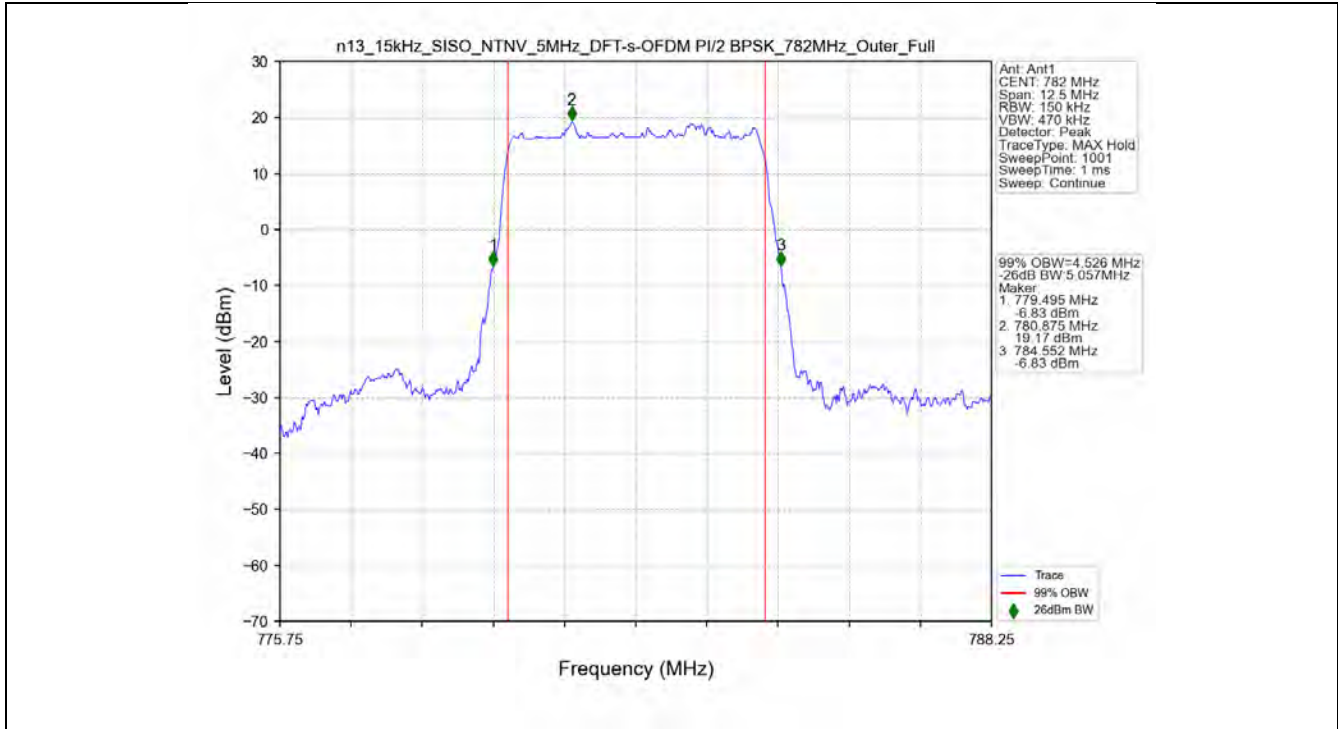


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Rev.: 01

Page: 17 of 237



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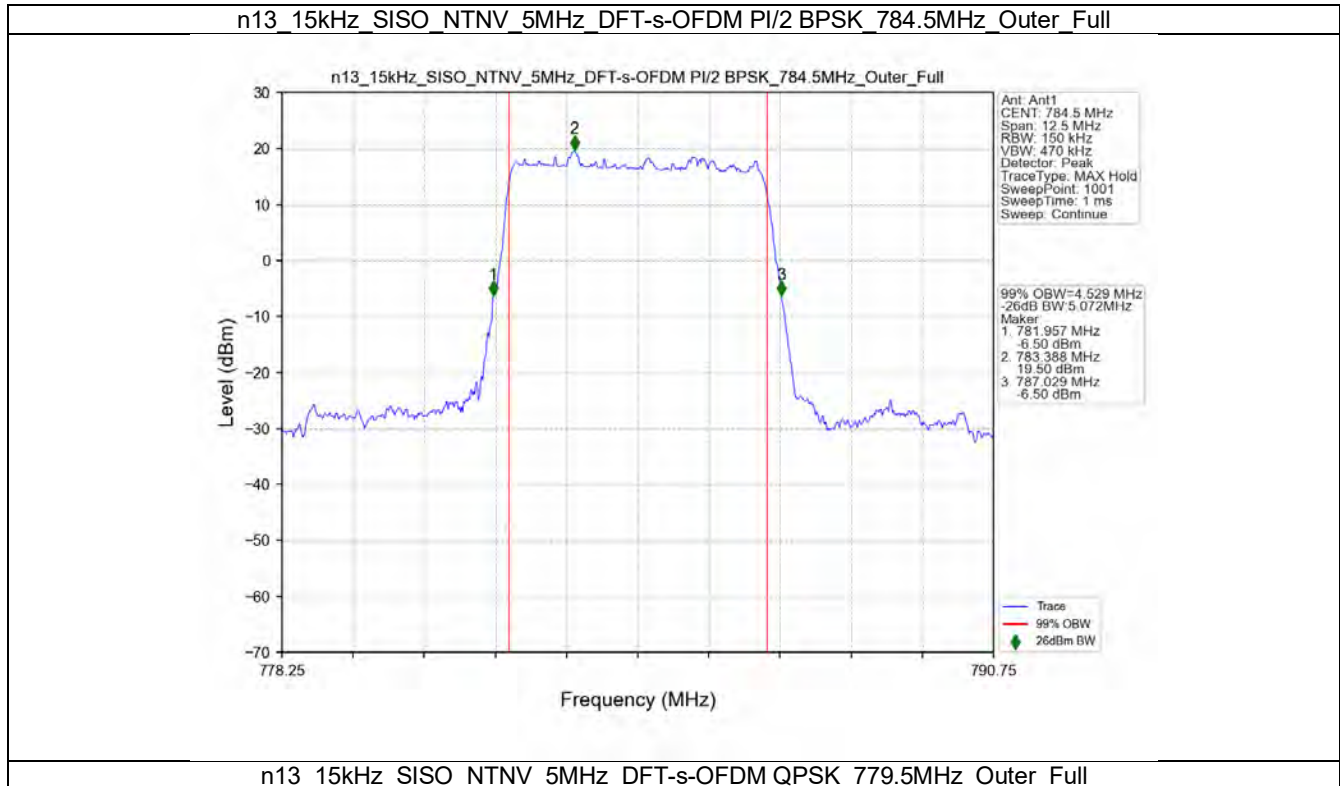


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Report No.: SZCR240100038409

Rev.: 01

Page: 18 of 237



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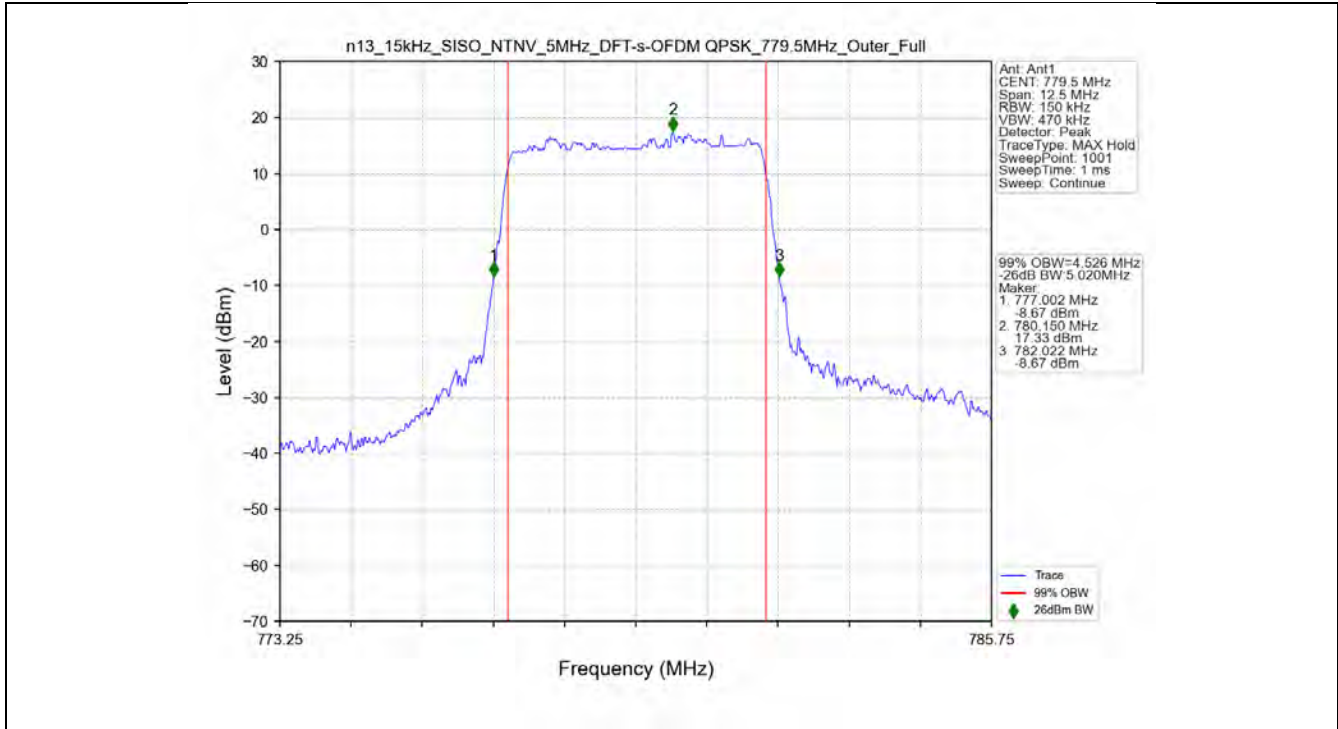


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Report No.: SZCR240100038409

Rev.: 01

Page: 19 of 237



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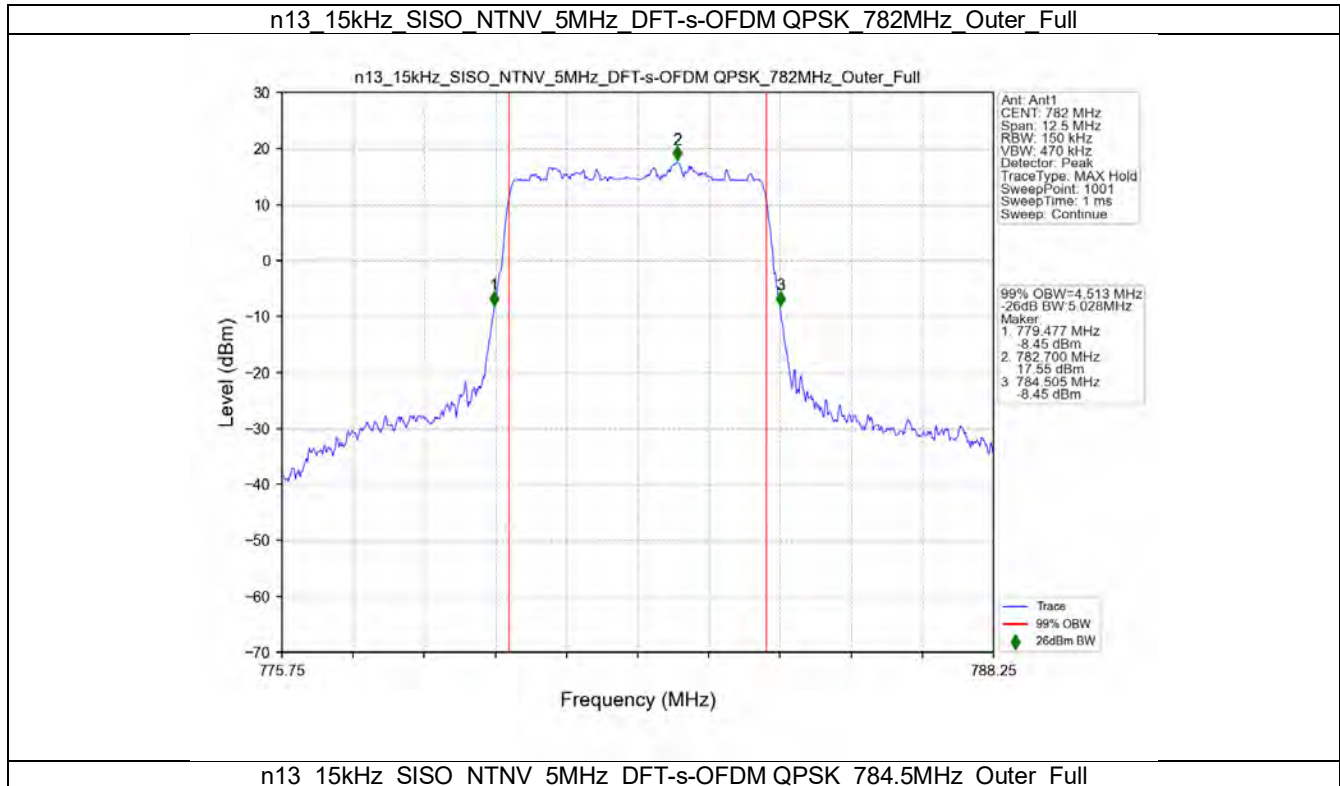


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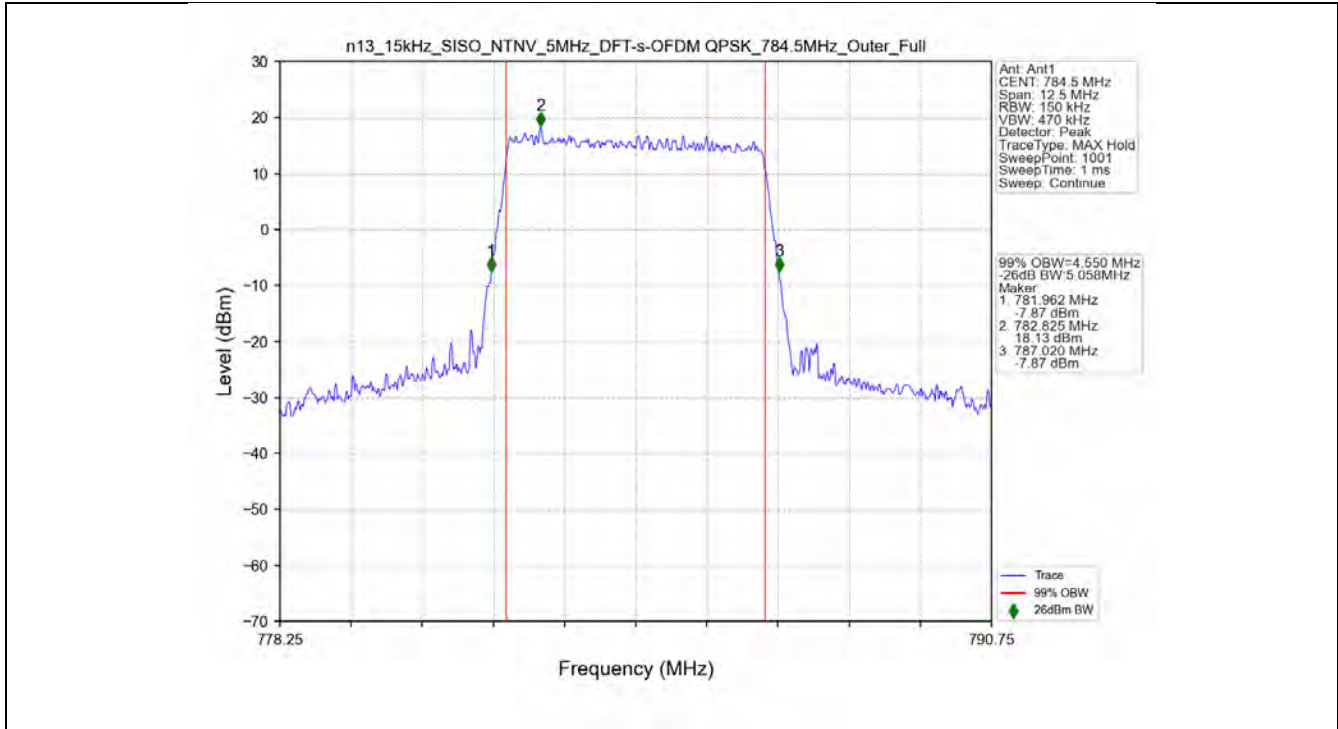


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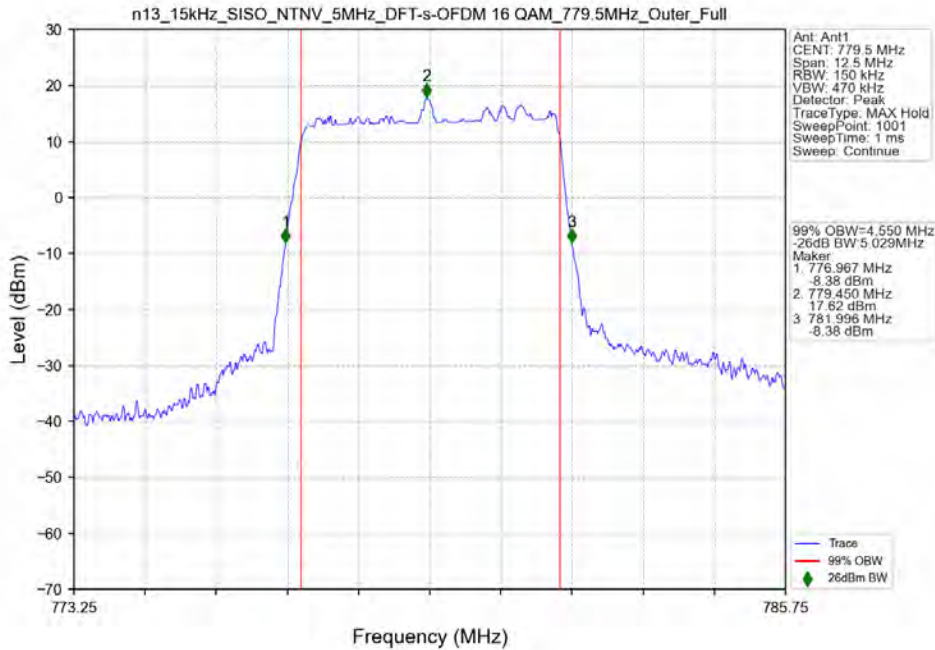
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Report No.: SZCR240100038409

Rev.: 01

Page: 22 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_779.5MHz_Outer_Full



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_782MHz_Outer_Full



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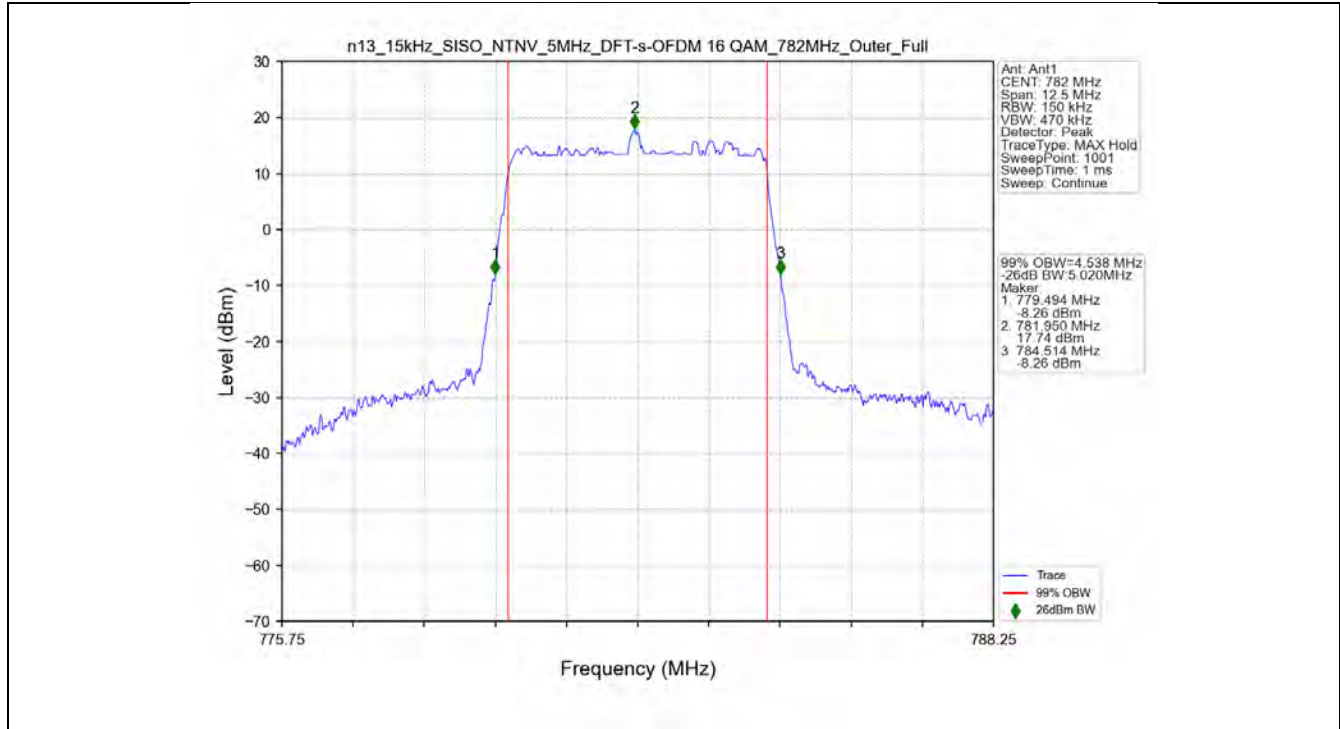


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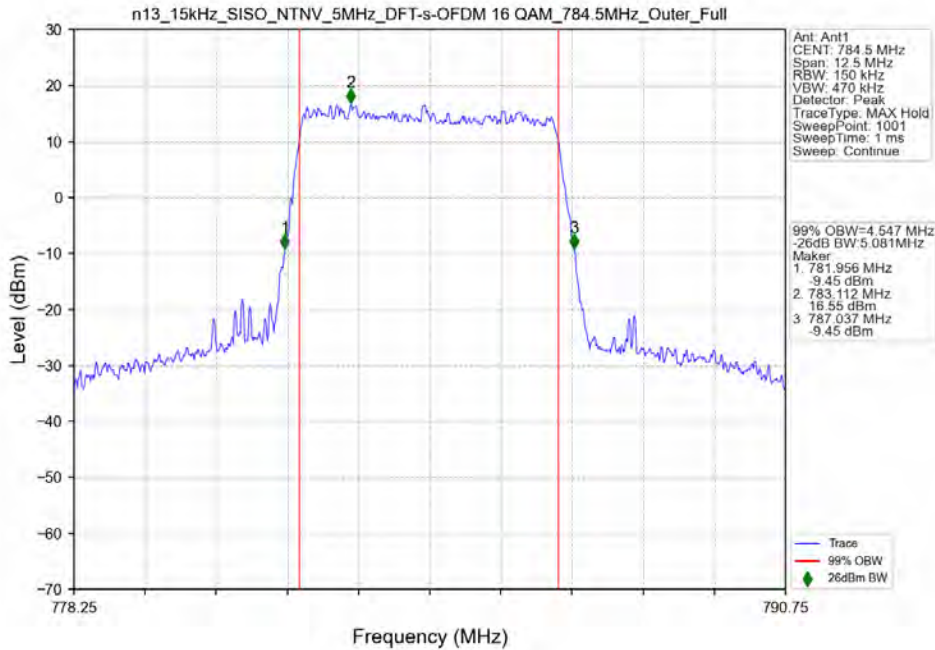
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Report No.: SZCR240100038409

Rev.: 01

Page: 24 of 237

n13 15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16 QAM_784.5MHz_Outer_Full



n13 15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64 QAM_779.5MHz_Outer_Full



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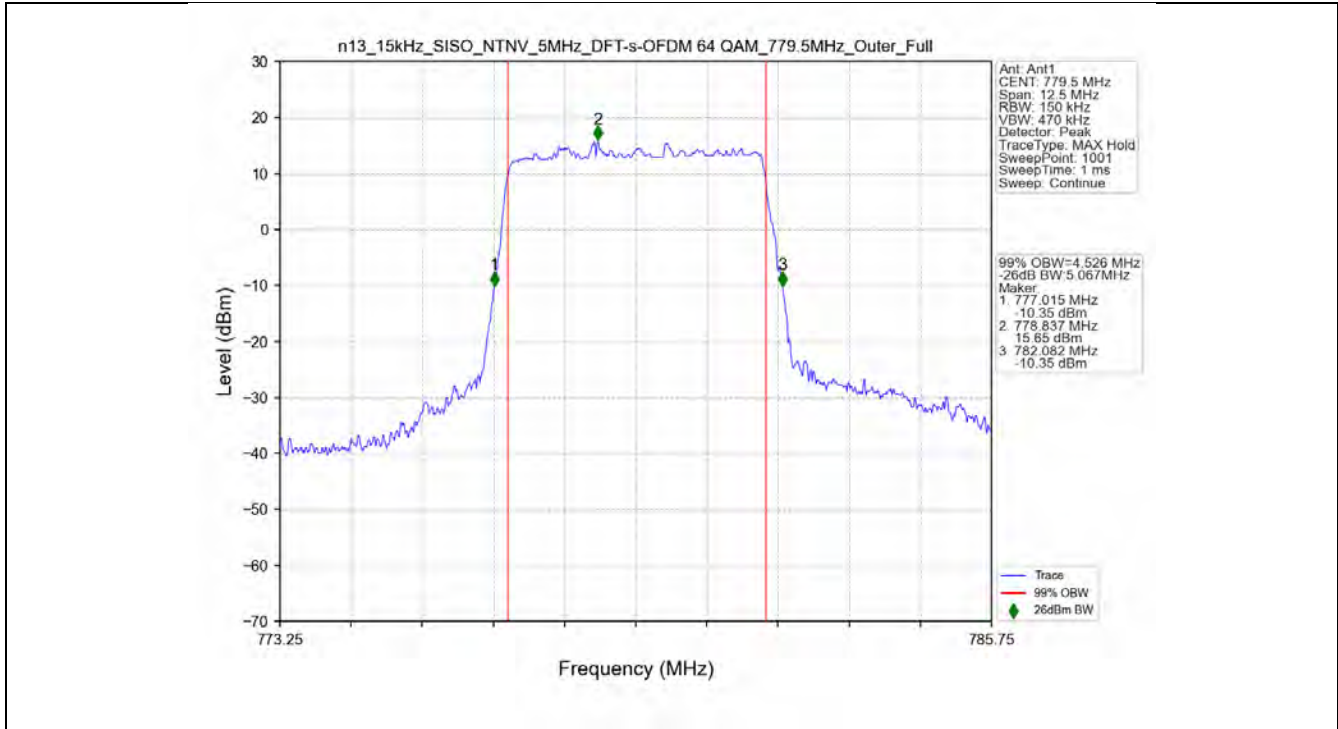


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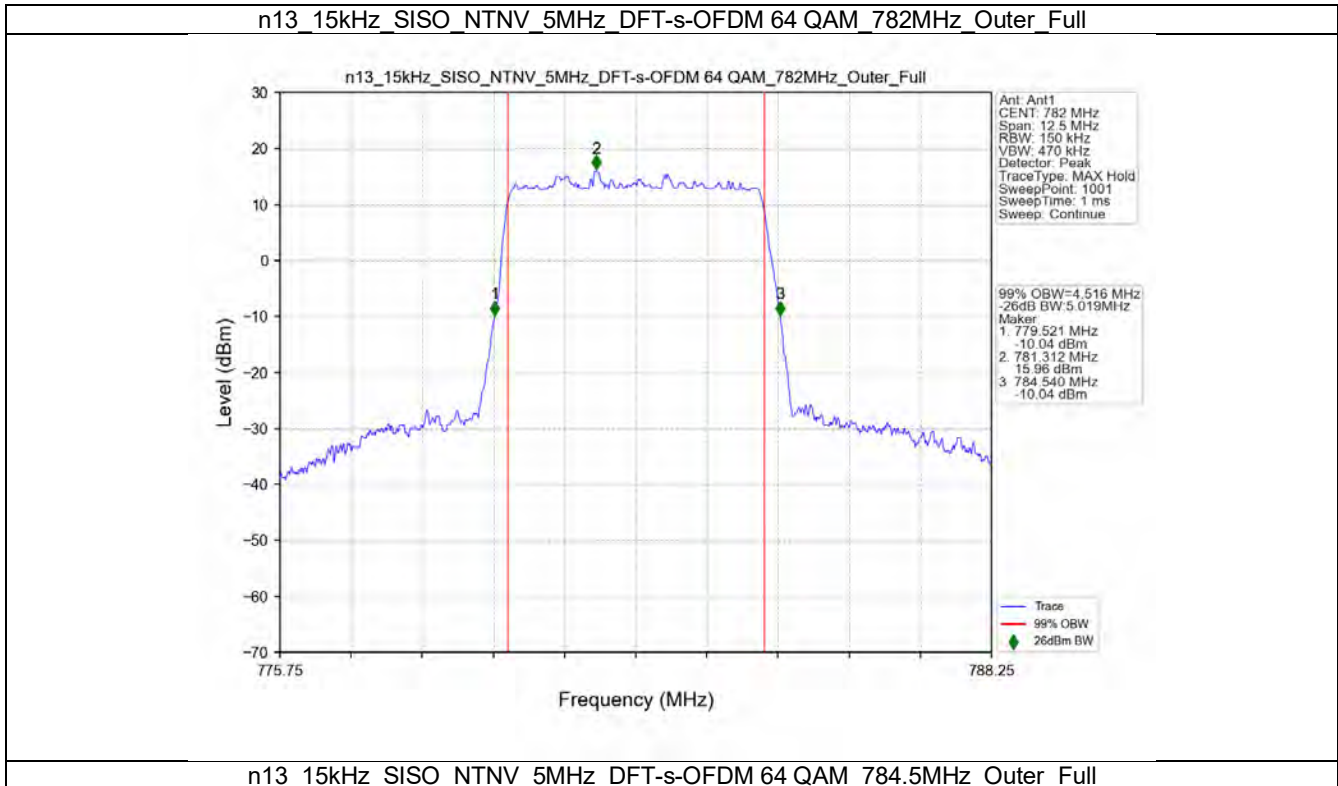


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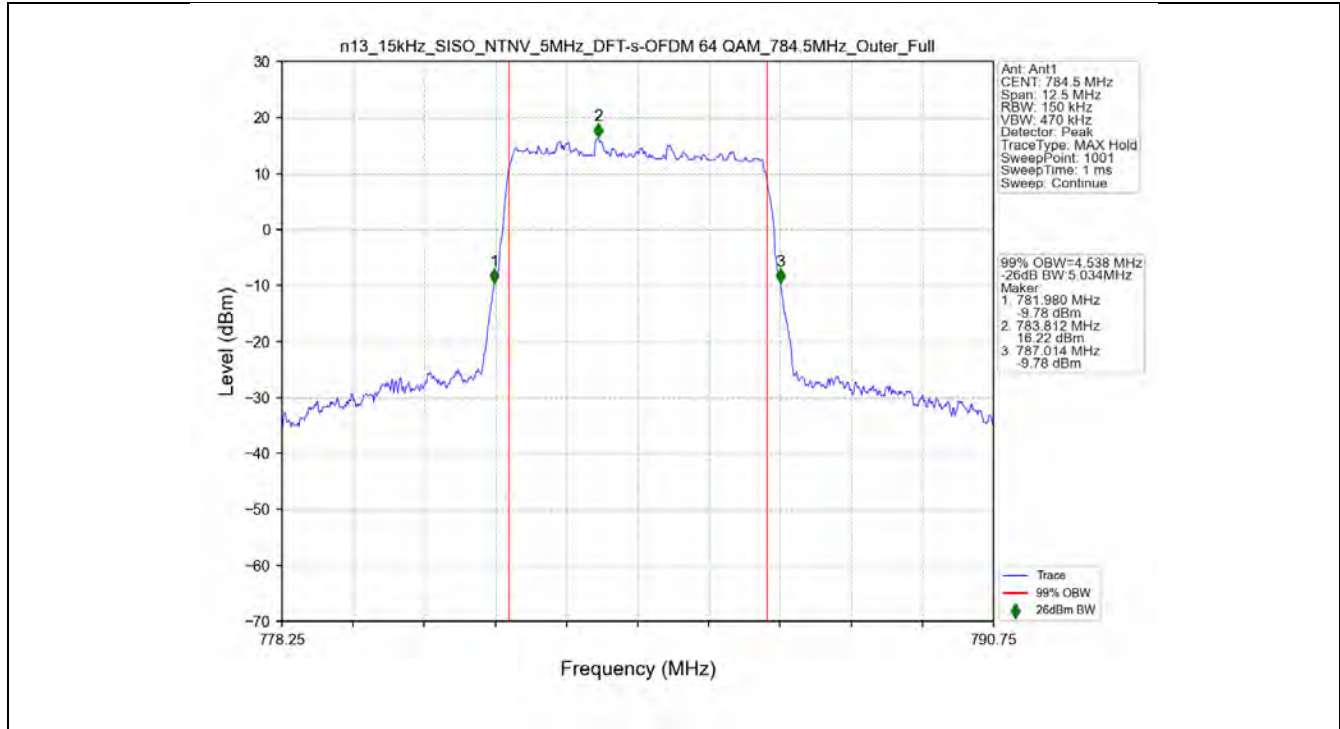


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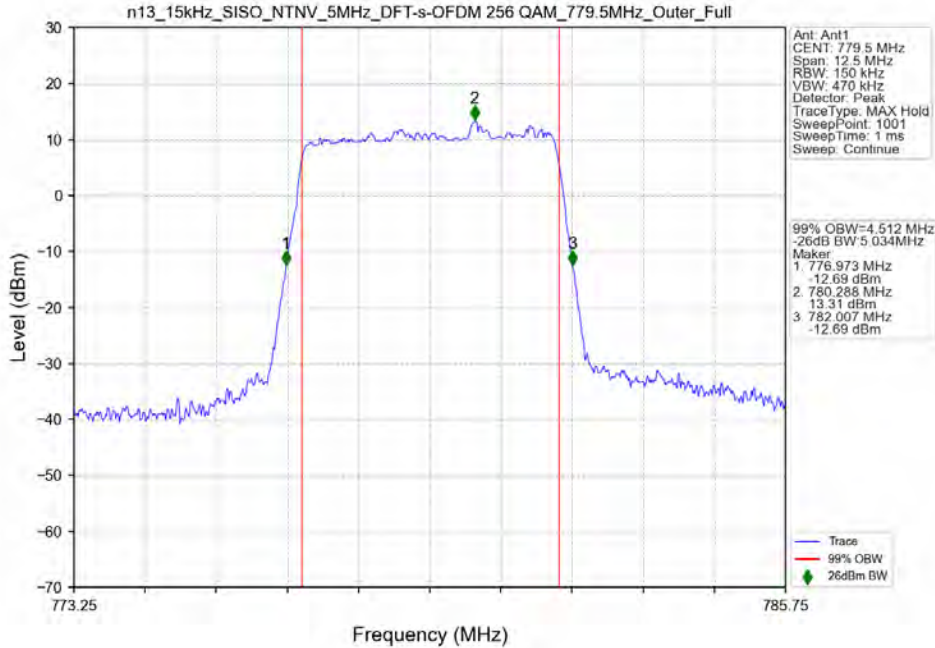
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Report No.: SZCR240100038409

Rev.: 01

Page: 28 of 237

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n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_782MHz_Outer_Full



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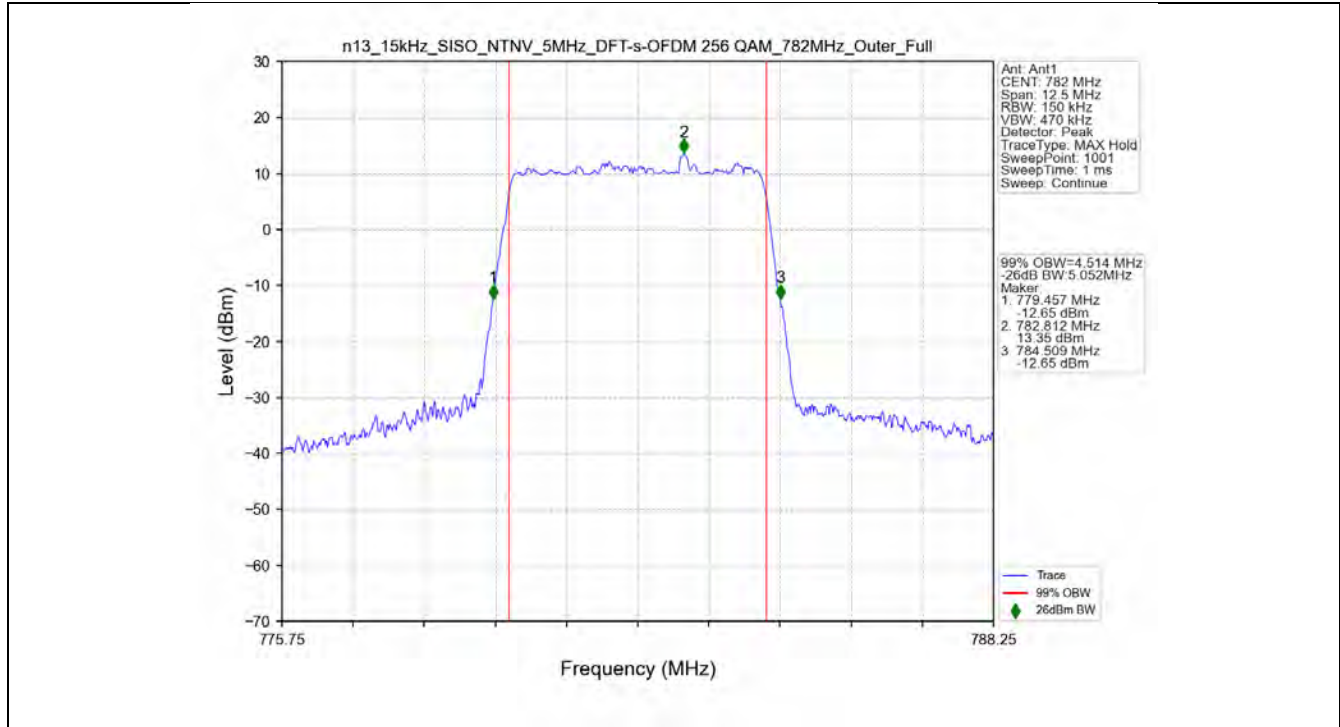


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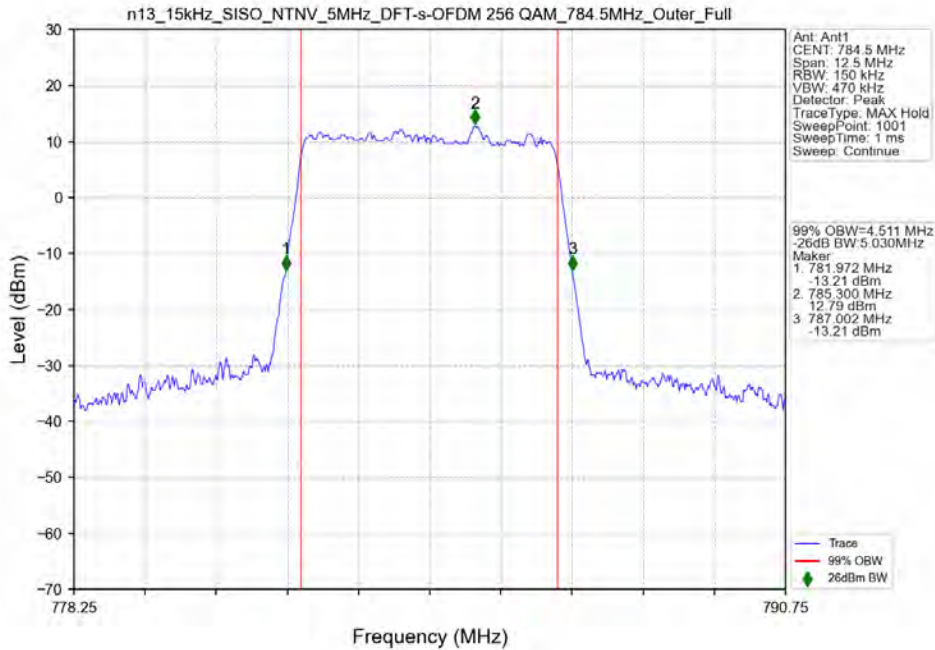
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Report No.: SZCR240100038409

Rev.: 01

Page: 30 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_784.5MHz_Outer_Full



n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Outer_Full



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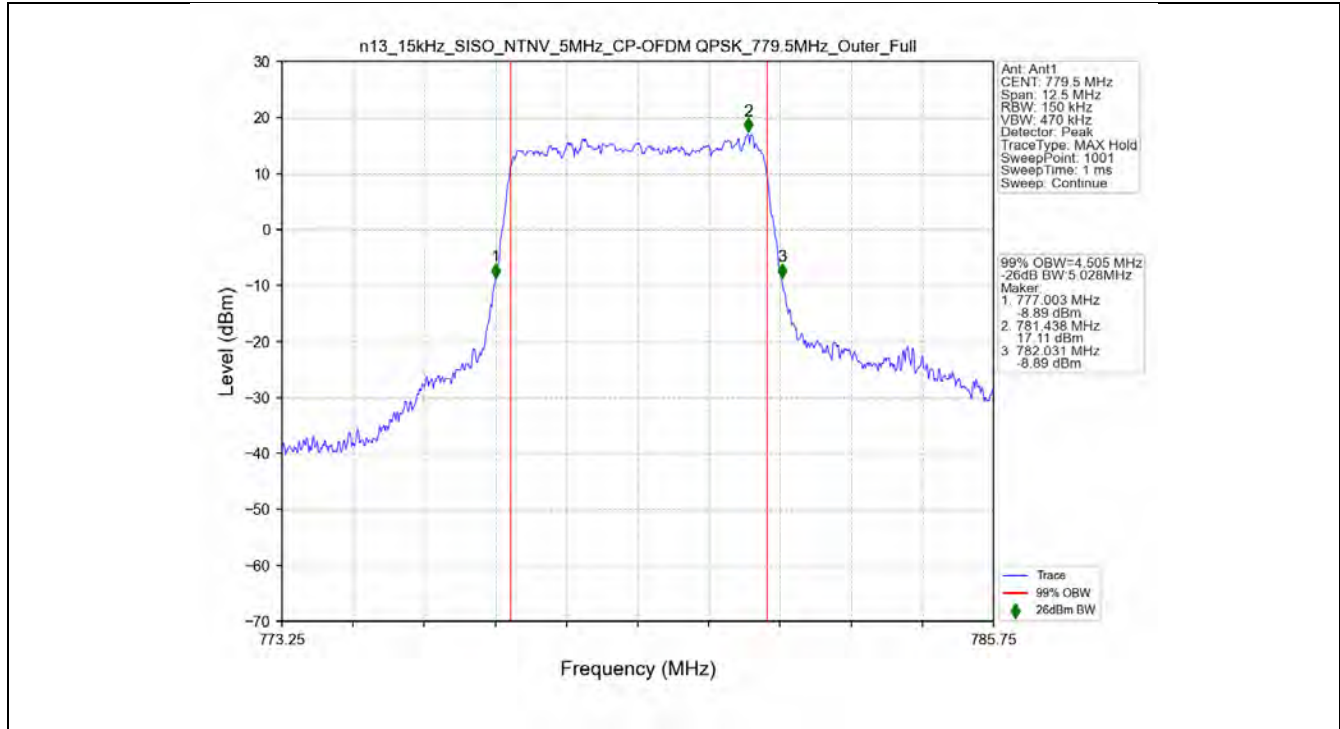


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Report No.: SZCR240100038409

Rev.: 01

Page: 31 of 237



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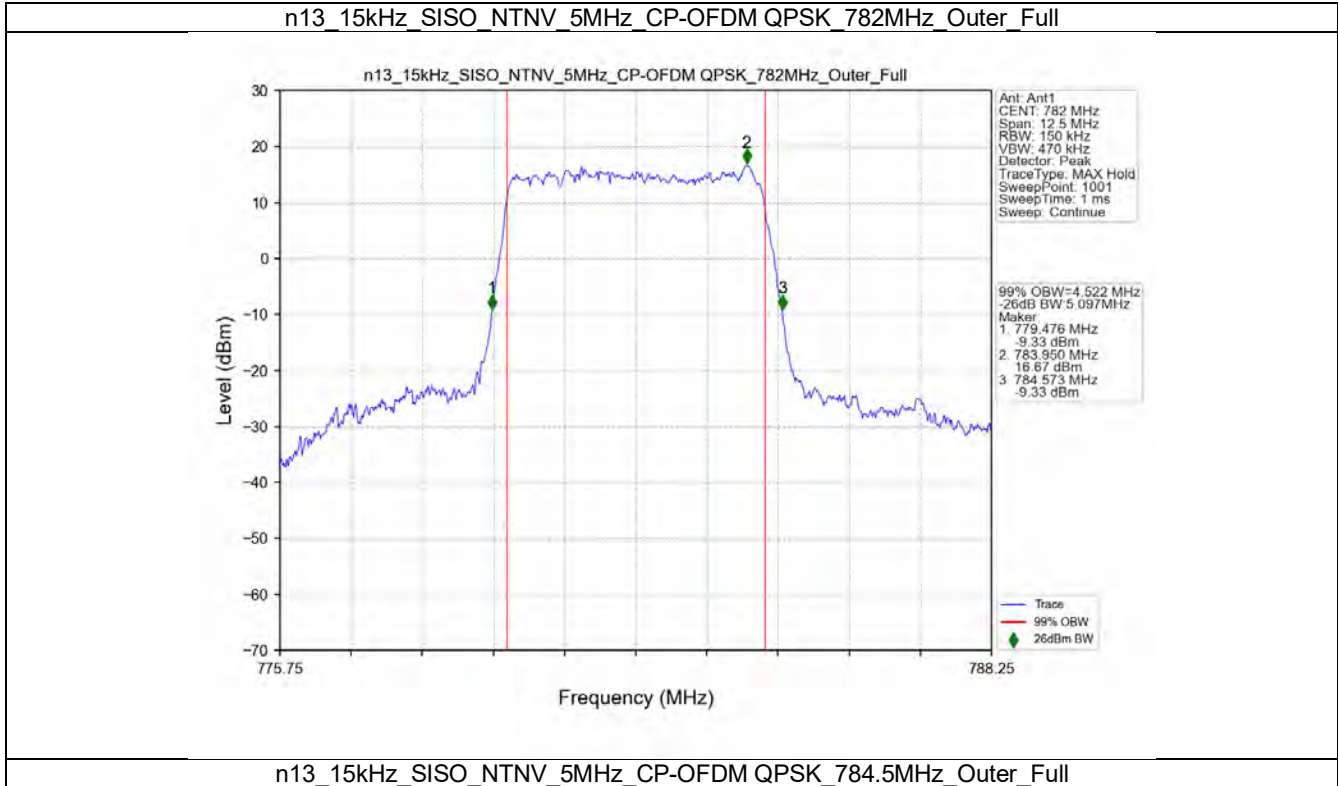


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Report No.: SZCR240100038409

Rev.: 01

Page: 32 of 237



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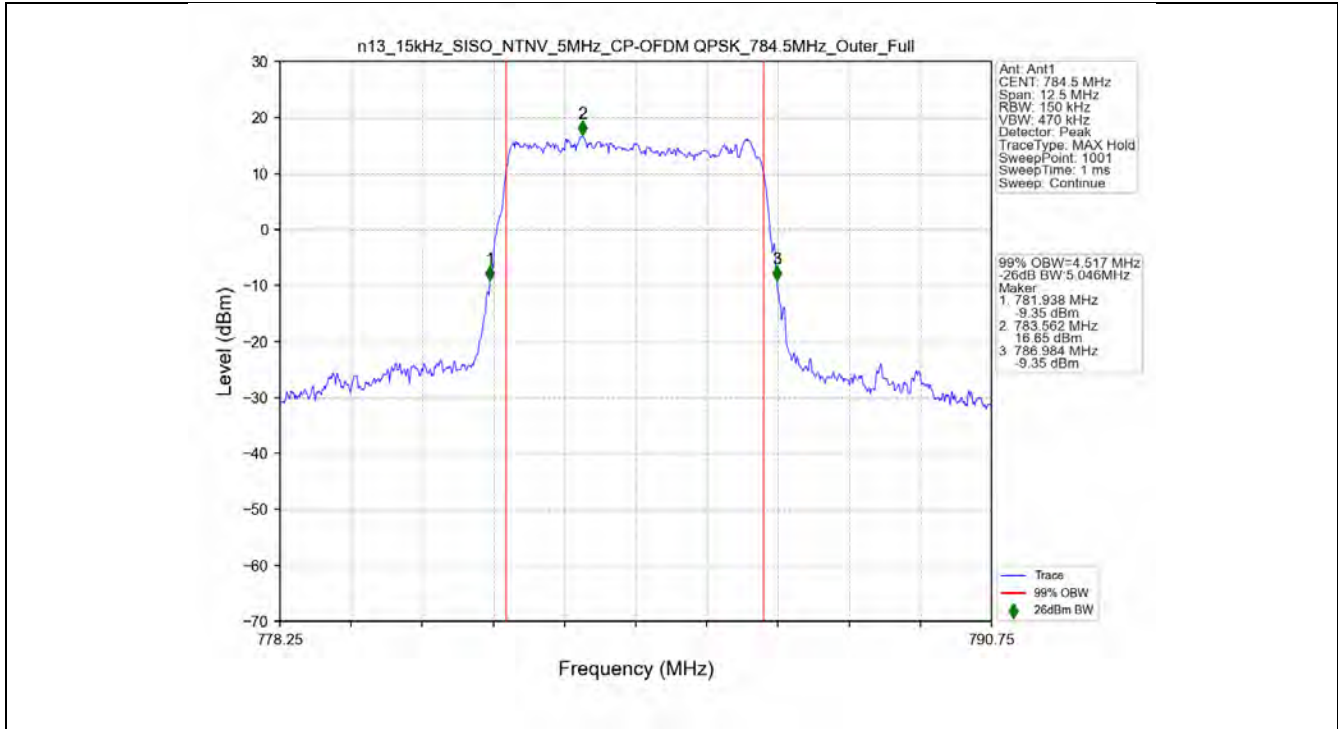


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Report No.: SZCR240100038409

Rev.: 01

Page: 33 of 237



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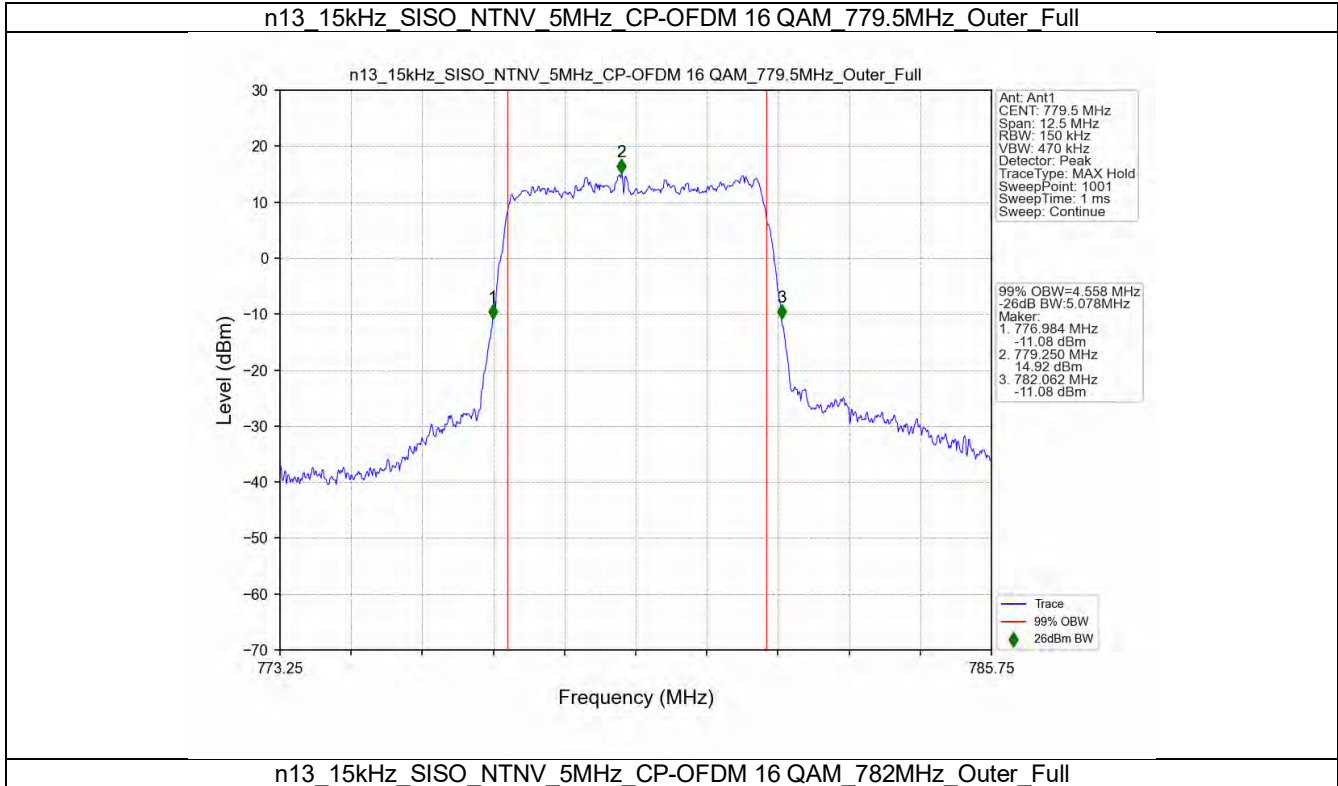


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Report No.: SZCR240100038409

Rev.: 01

Page: 34 of 237



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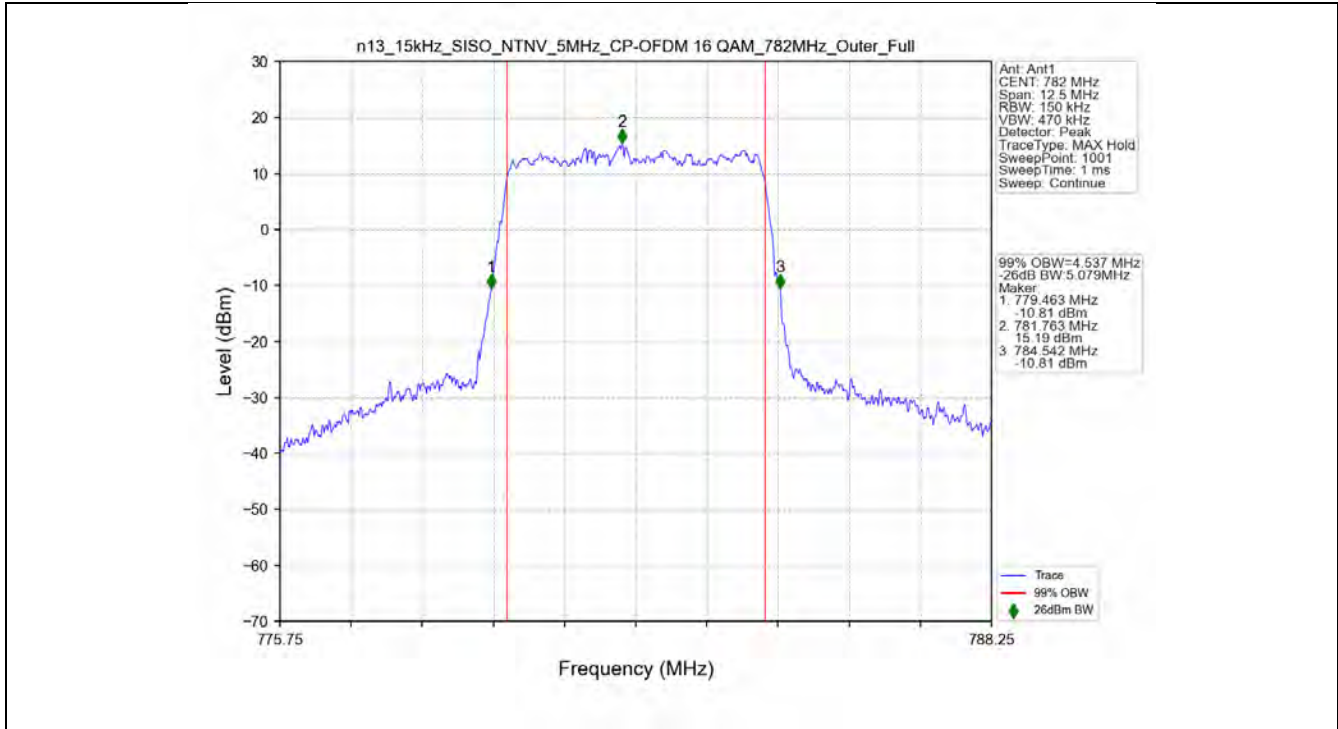


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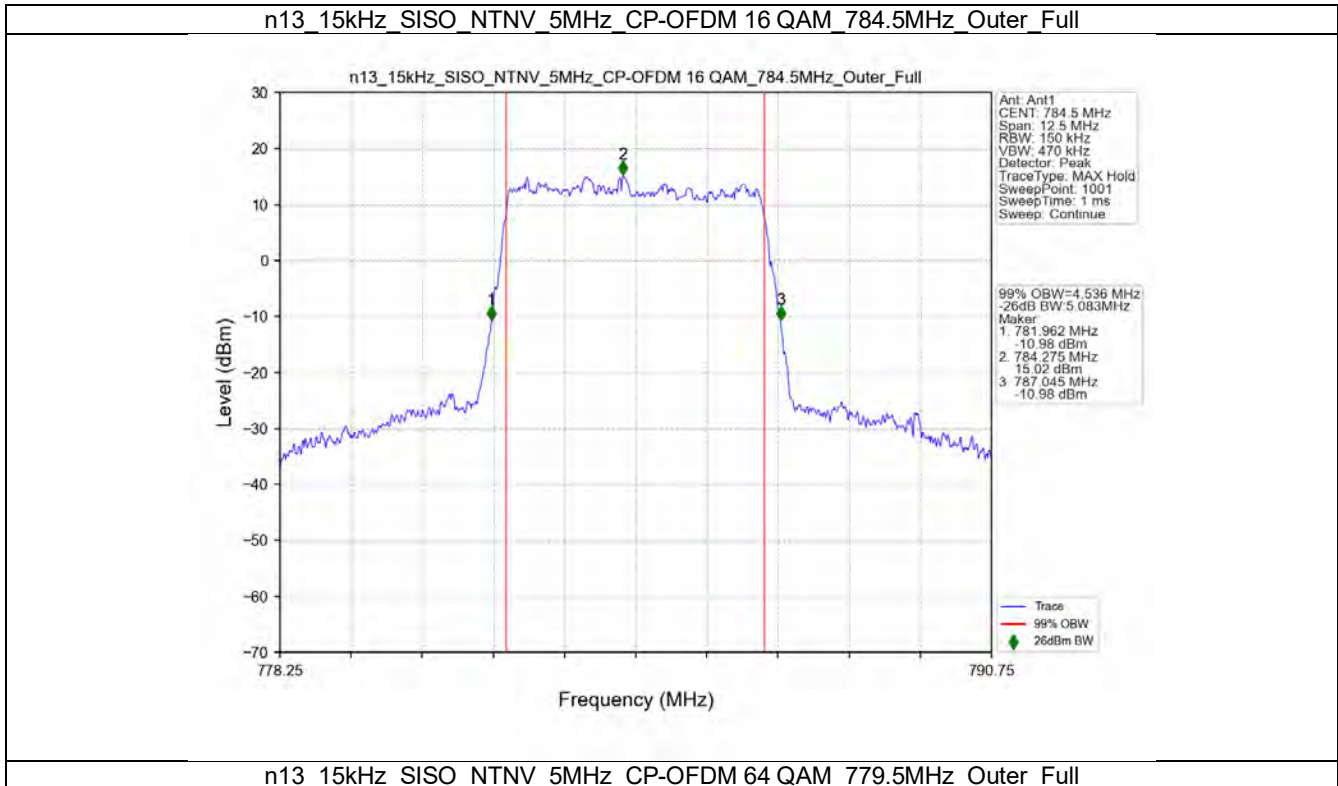


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Rev.: 01

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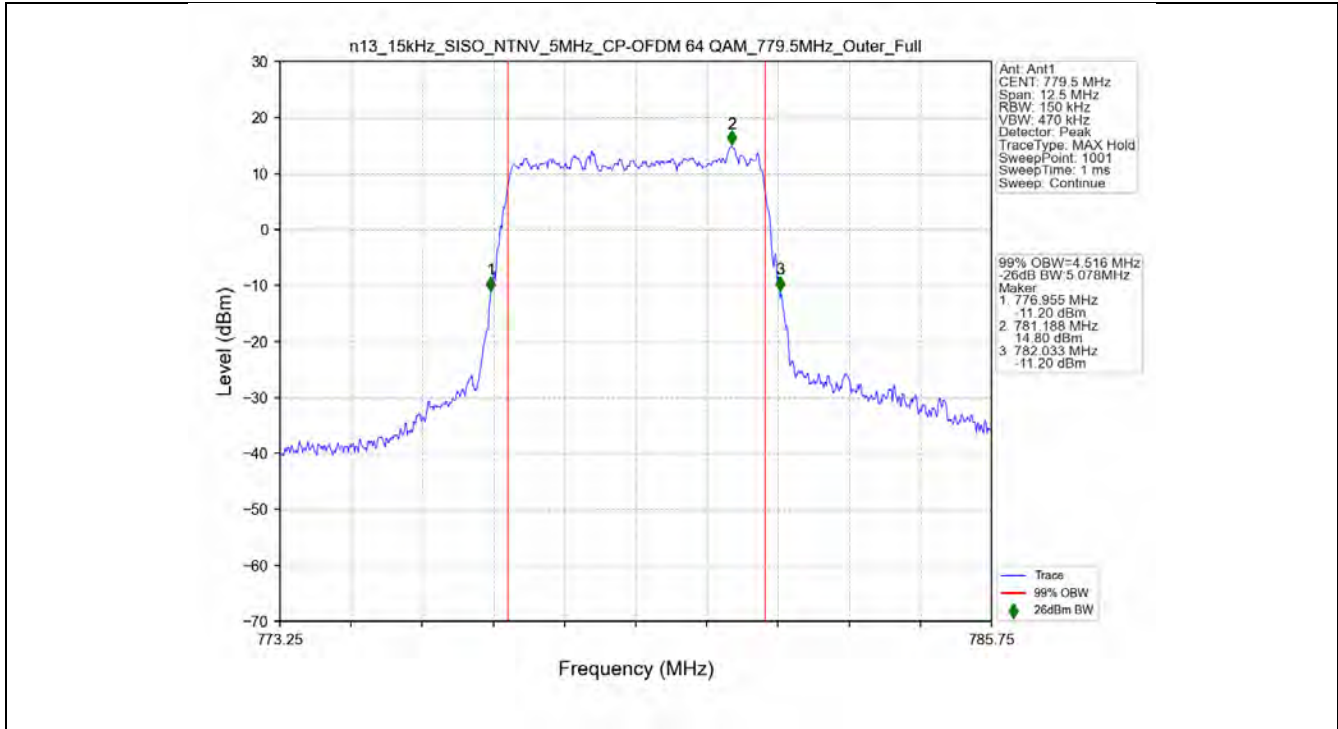


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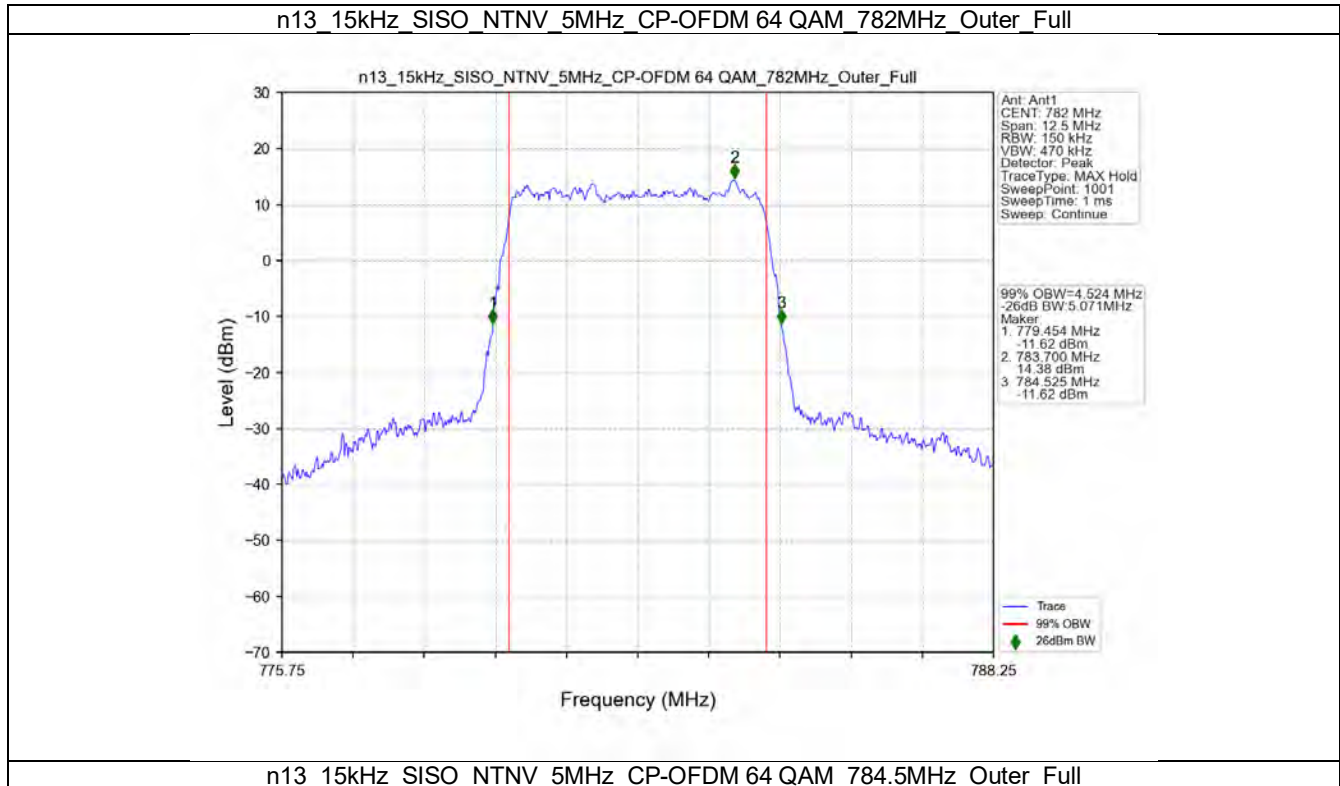


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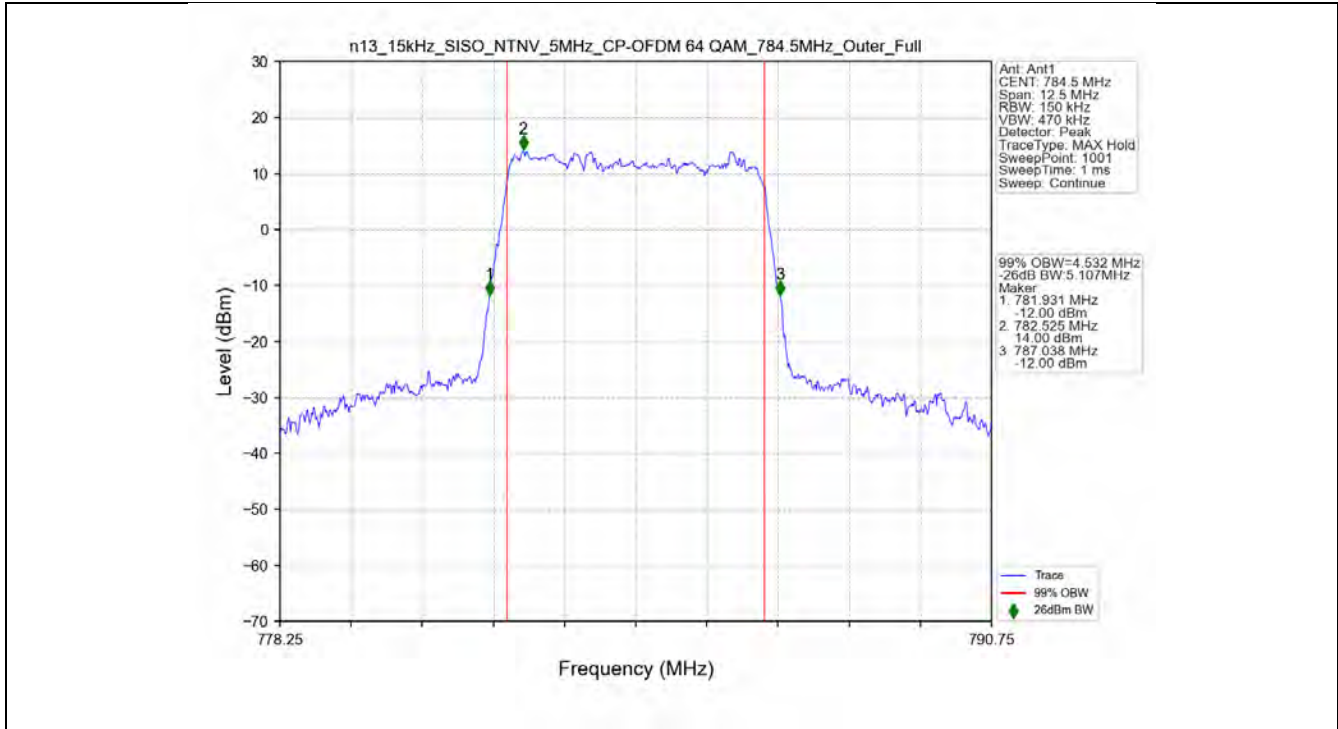


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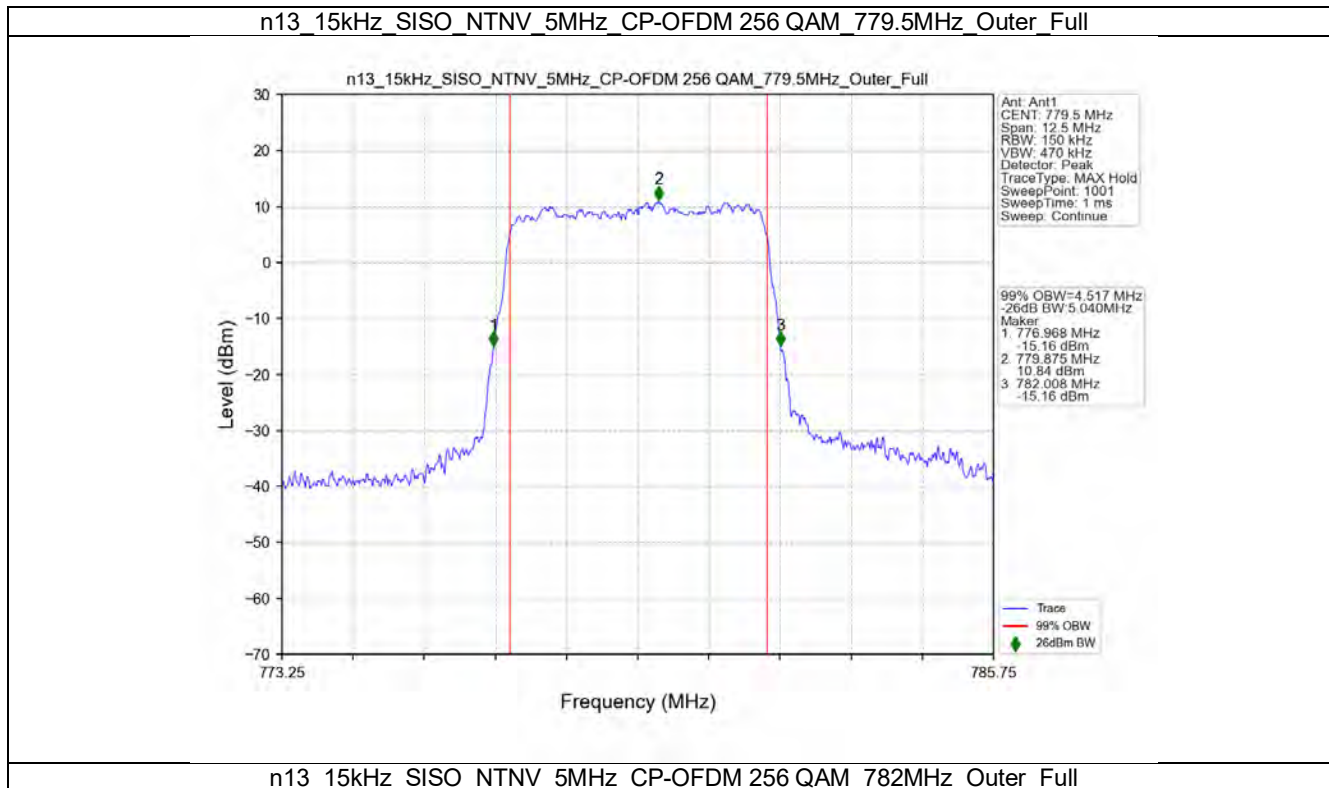
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 Page: 40 of 237



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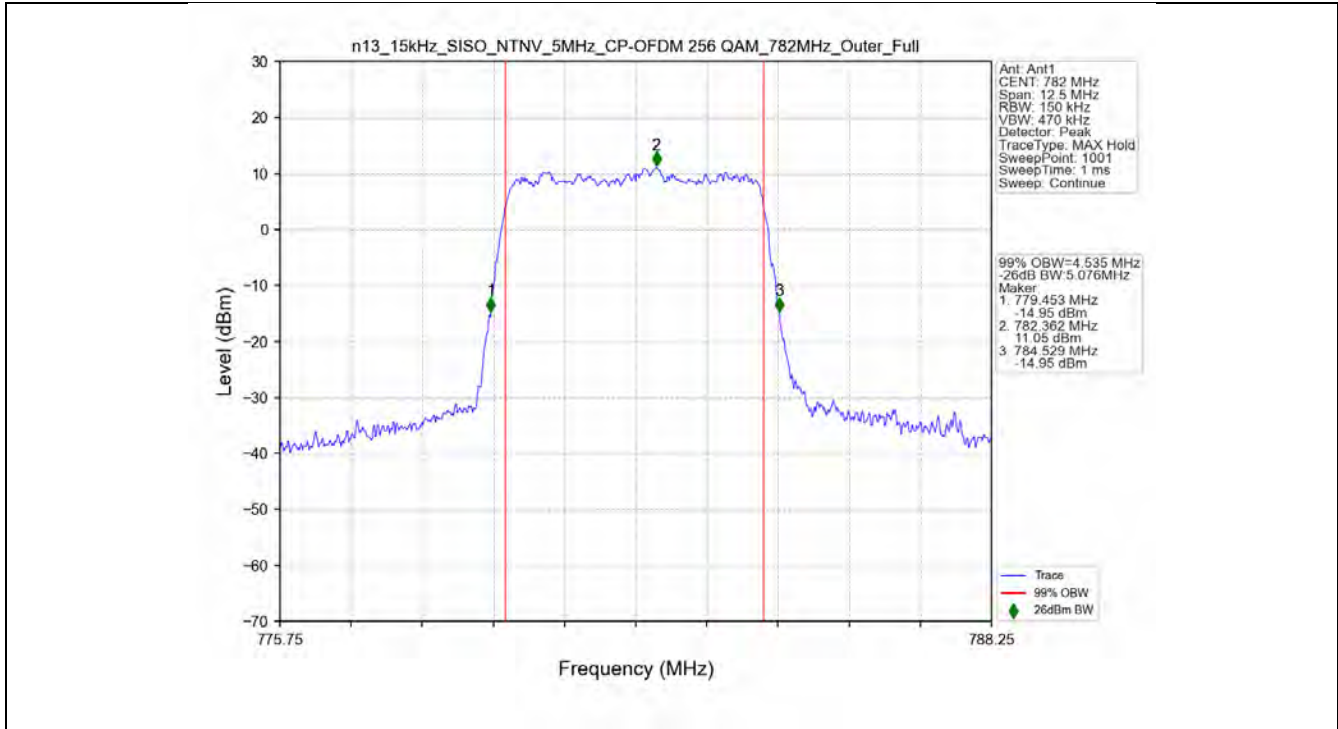


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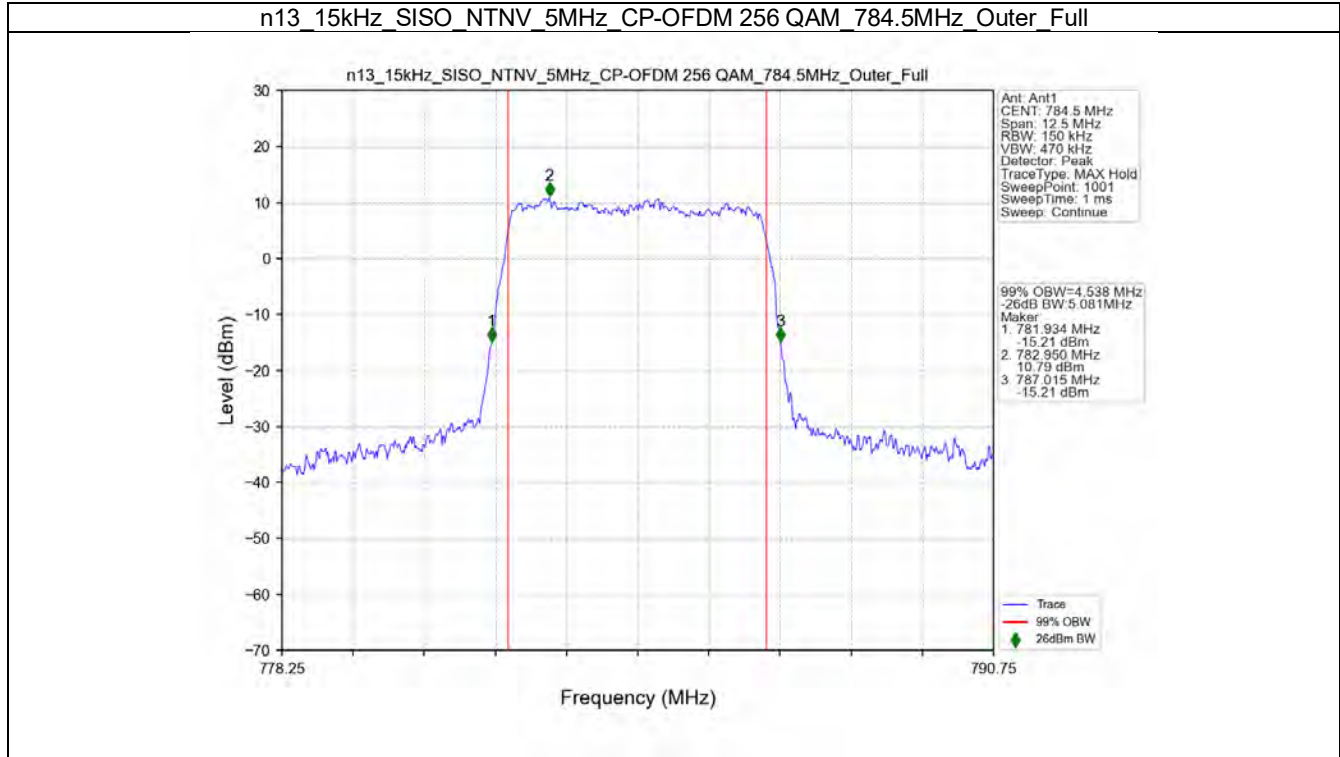


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Report No.: SZCR240100038409

Rev.: 01

Page: 43 of 237

3.2 15k_SISO_10MHz_NTNV

3.2.1 Test Result

5G NR n13 SCS=15kHz SISO 10MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	782	Outer Full	8.98	9.75	/	Pass
	782	Outer Full	8.97	9.79	/	Pass
	782	Outer Full	8.98	9.77	/	Pass
DFT-s-OFDM QPSK	782	Outer Full	9.00	9.80	/	Pass
	782	Outer Full	9.01	9.78	/	Pass
	782	Outer Full	9.01	9.77	/	Pass
DFT-s-OFDM 16 QAM	782	Outer Full	9.01	9.77	/	Pass
	782	Outer Full	9.00	9.77	/	Pass
	782	Outer Full	8.99	9.76	/	Pass
DFT-s-OFDM 64 QAM	782	Outer Full	8.97	9.81	/	Pass
	782	Outer Full	8.97	9.79	/	Pass
	782	Outer Full	8.98	9.80	/	Pass
DFT-s-OFDM 256 QAM	782	Outer Full	8.98	9.78	/	Pass
	782	Outer Full	8.99	9.75	/	Pass
	782	Outer Full	8.99	9.79	/	Pass
CP-OFDM QPSK	782	Outer Full	9.31	10.20	/	Pass
	782	Outer Full	9.31	10.19	/	Pass
	782	Outer Full	9.31	10.13	/	Pass
CP-OFDM 16 QAM	782	Outer Full	9.32	10.17	/	Pass
	782	Outer Full	9.31	10.16	/	Pass
	782	Outer Full	9.30	10.16	/	Pass
CP-OFDM 64 QAM	782	Outer Full	9.28	10.09	/	Pass
	782	Outer Full	9.28	10.09	/	Pass
	782	Outer Full	9.28	10.09	/	Pass
CP-OFDM 256 QAM	782	Outer Full	9.33	10.16	/	Pass
	782	Outer Full	9.34	10.18	/	Pass
	782	Outer Full	9.33	10.20	/	Pass



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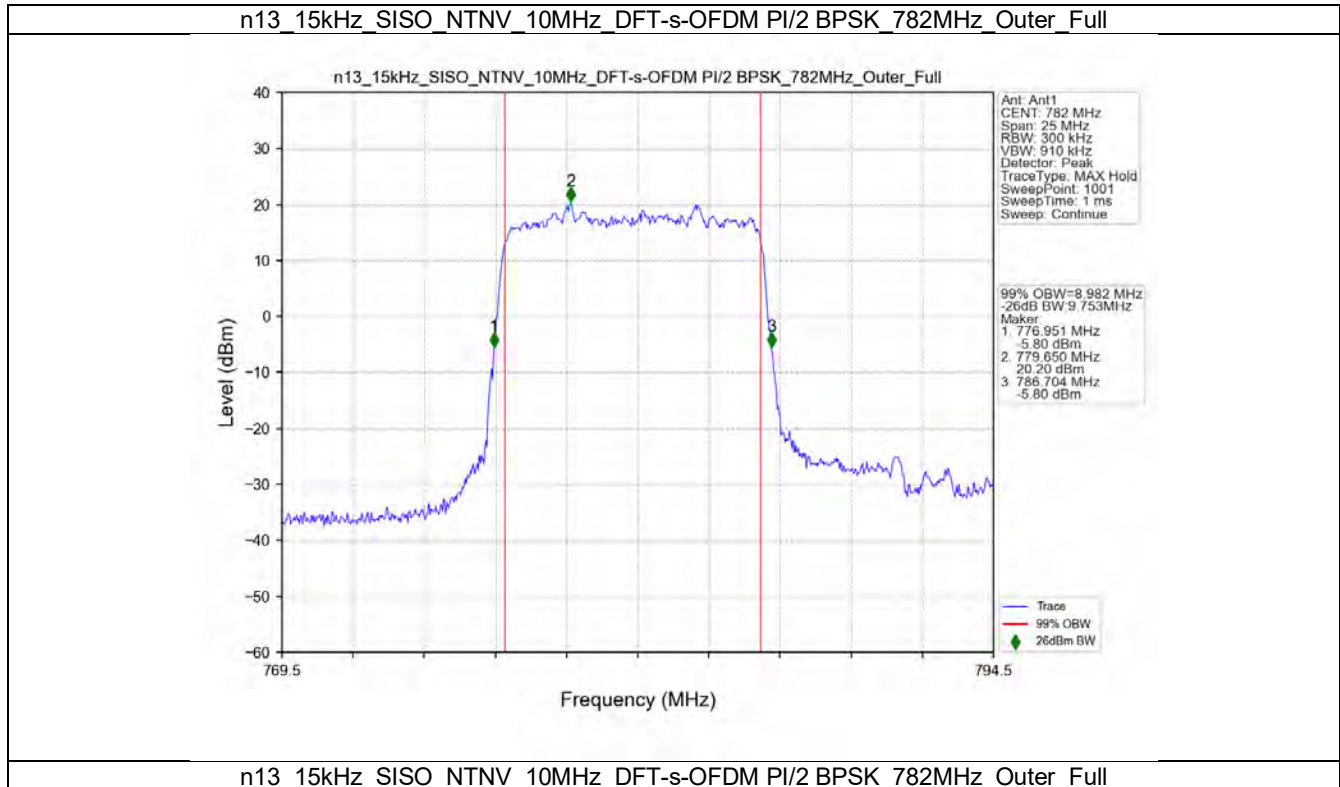
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Report No.: SZCR240100038409

Rev.: 01

Page: 44 of 237

3.2.2 Test Graph



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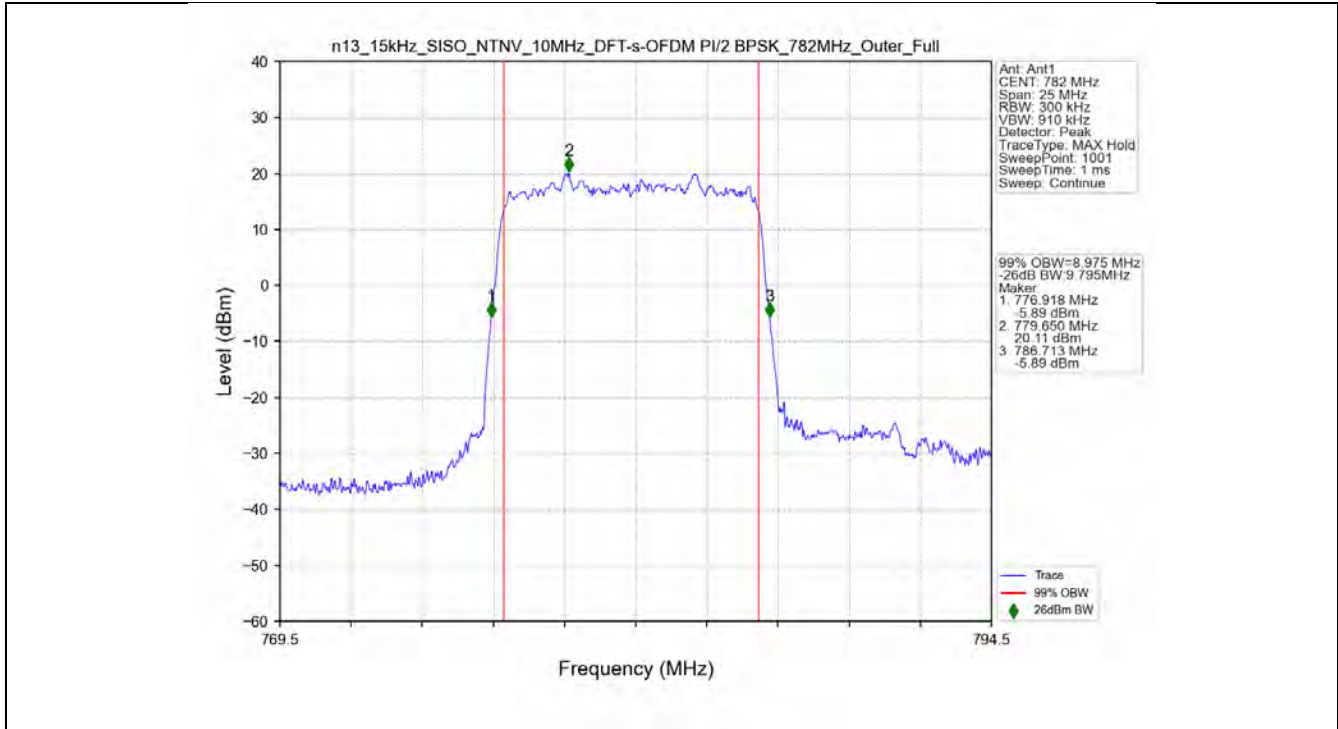


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Report No.: SZCR240100038409

Rev.: 01

Page: 45 of 237



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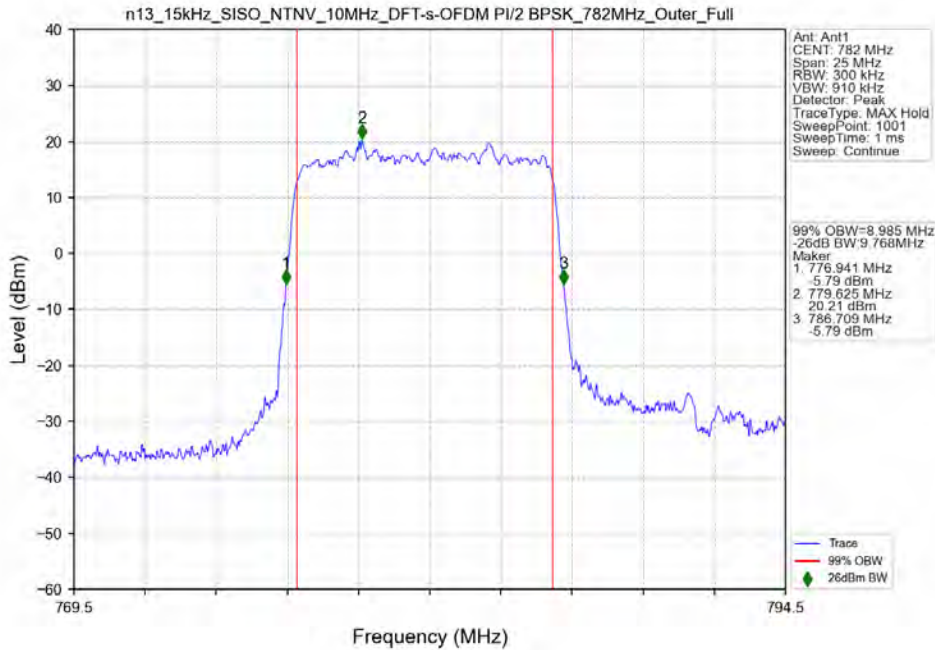
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Report No.: SZCR240100038409

Rev.: 01

Page: 46 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Outer_Full



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_782MHz_Outer_Full



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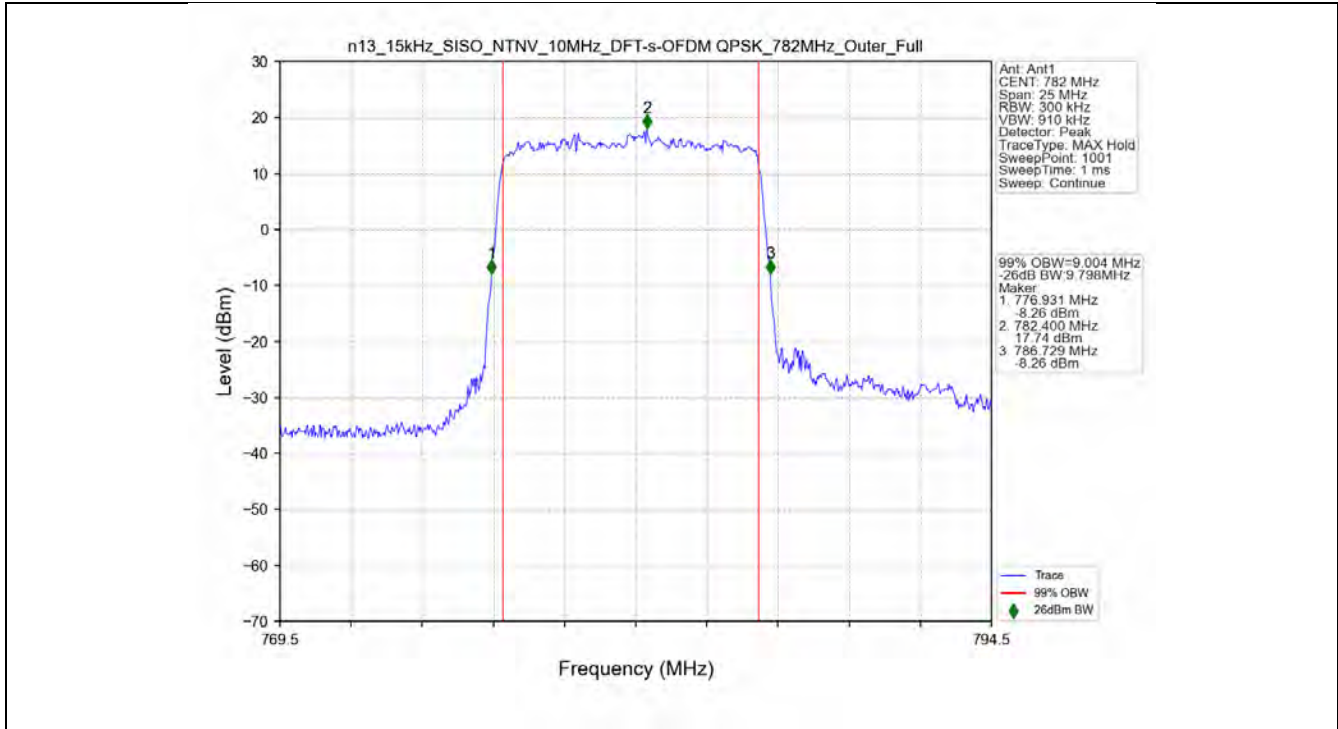


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Report No.: SZCR240100038409

Rev.: 01

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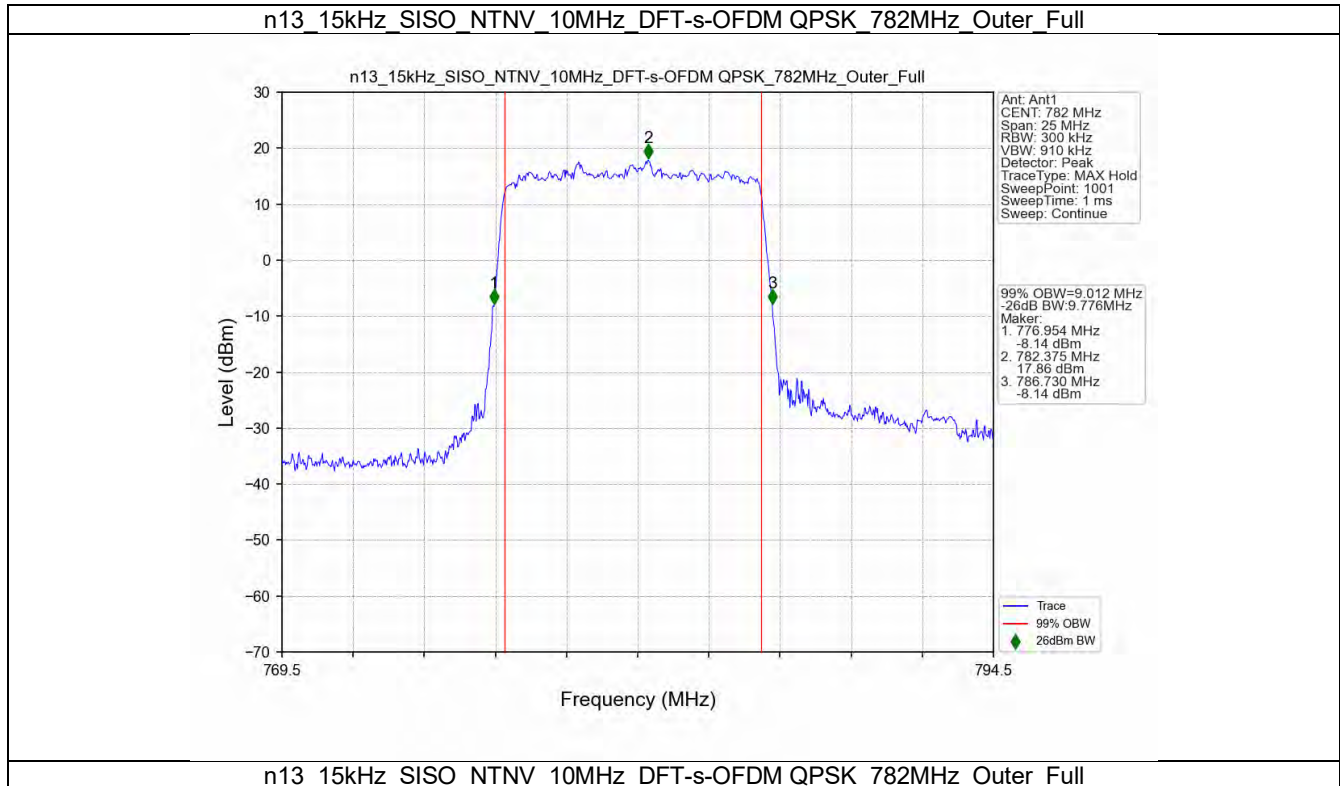


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Report No.: SZCR240100038409

Rev.: 01

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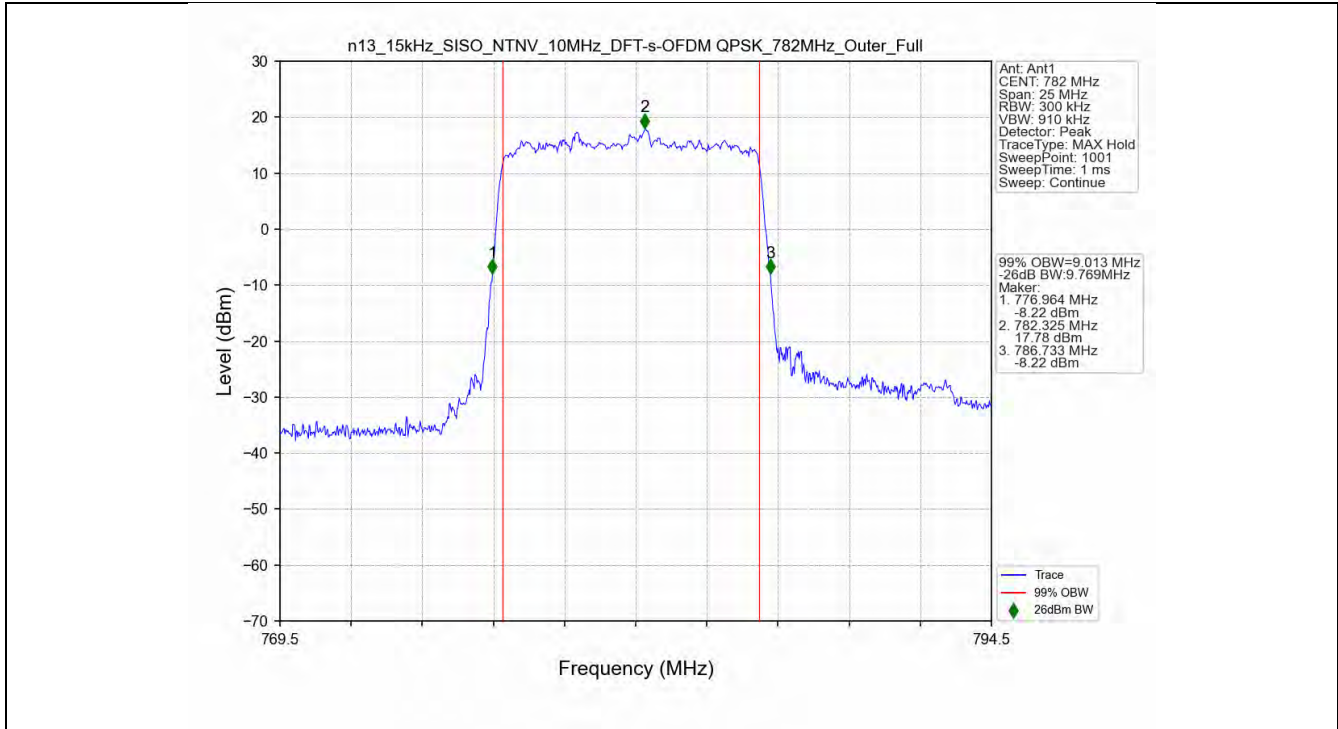


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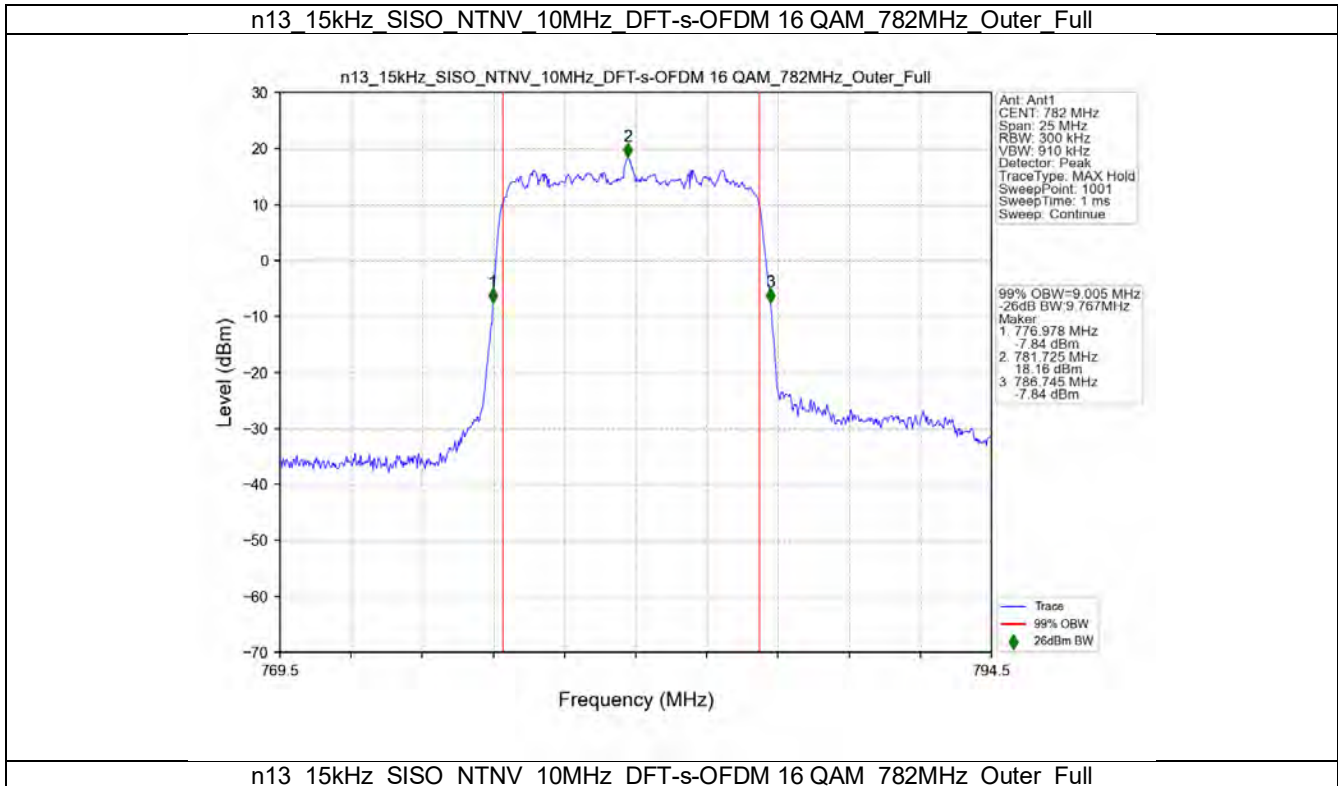


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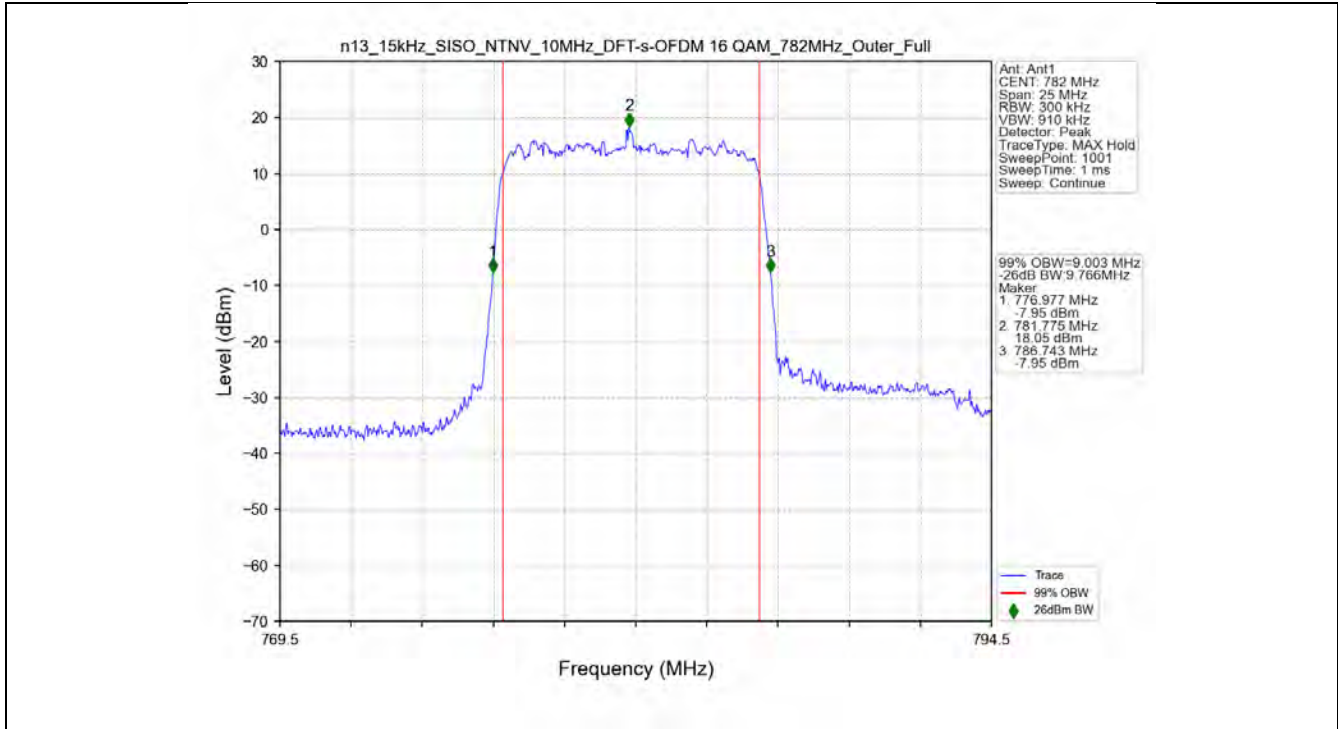


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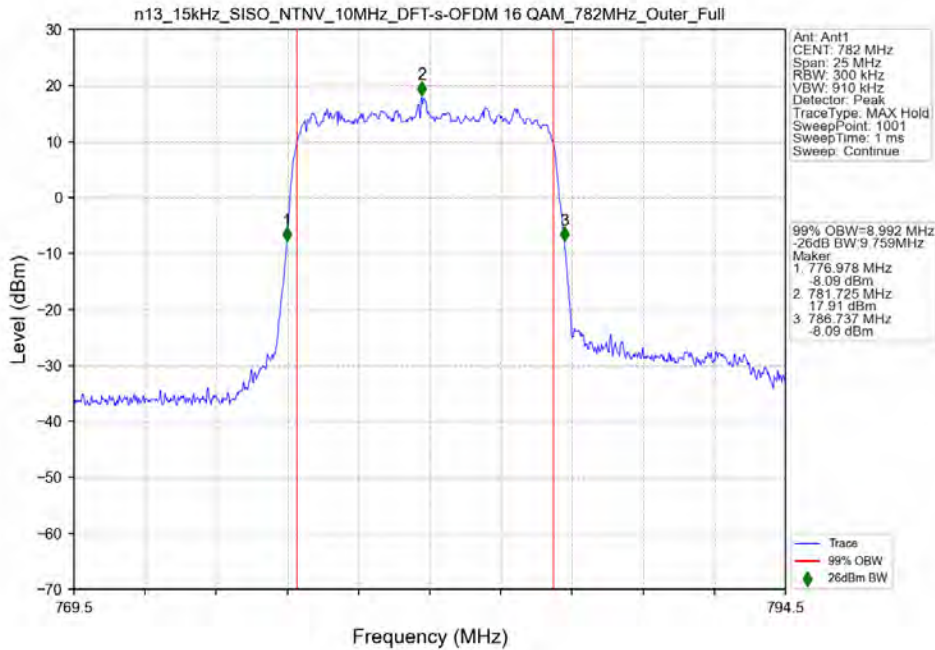
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Report No.: SZCR240100038409

Rev.: 01

Page: 52 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM 782MHz_Outer_Full



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM 782MHz_Outer_Full



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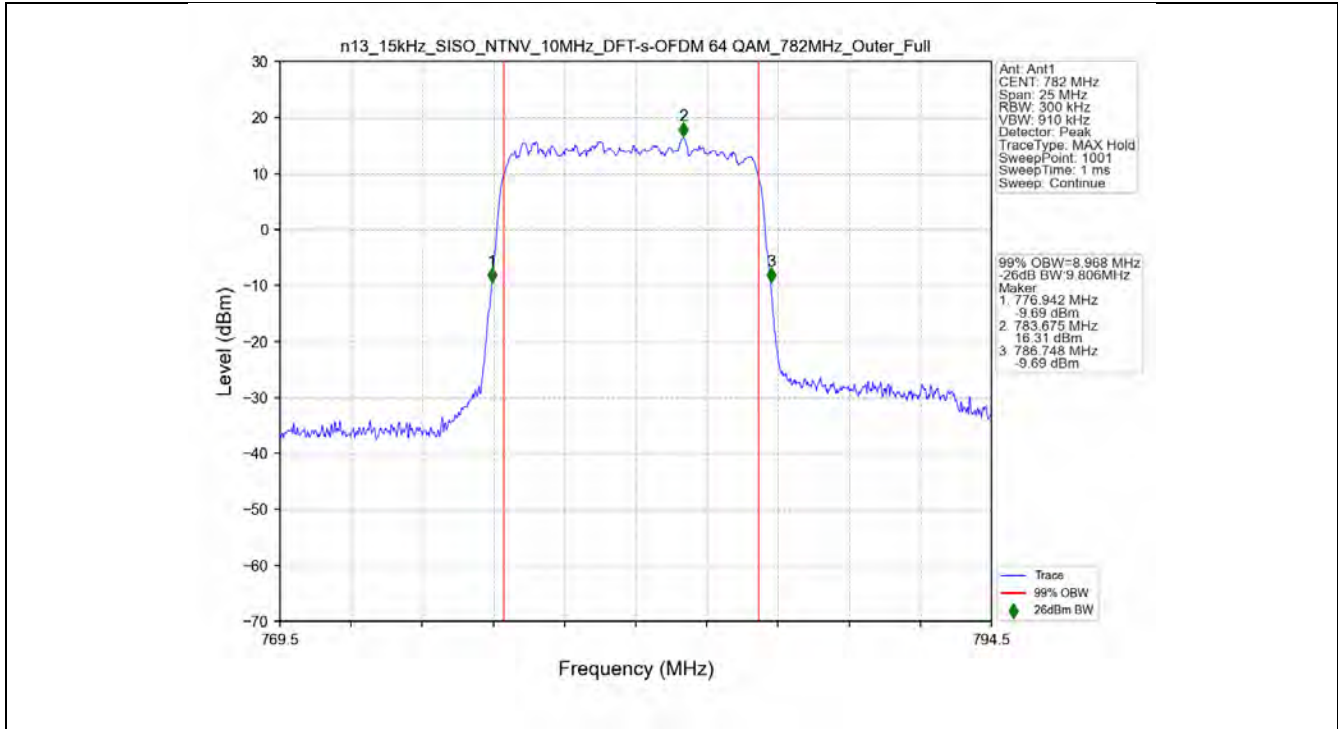


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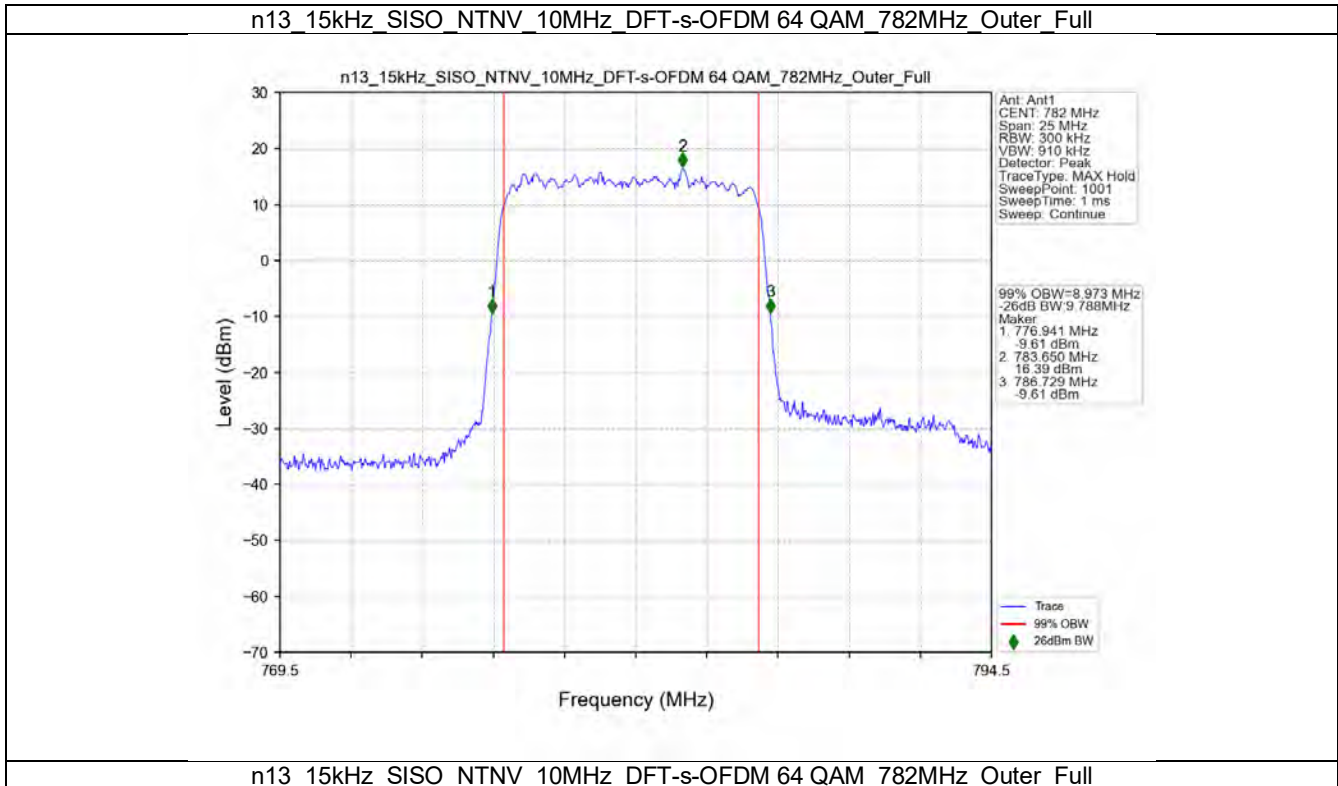


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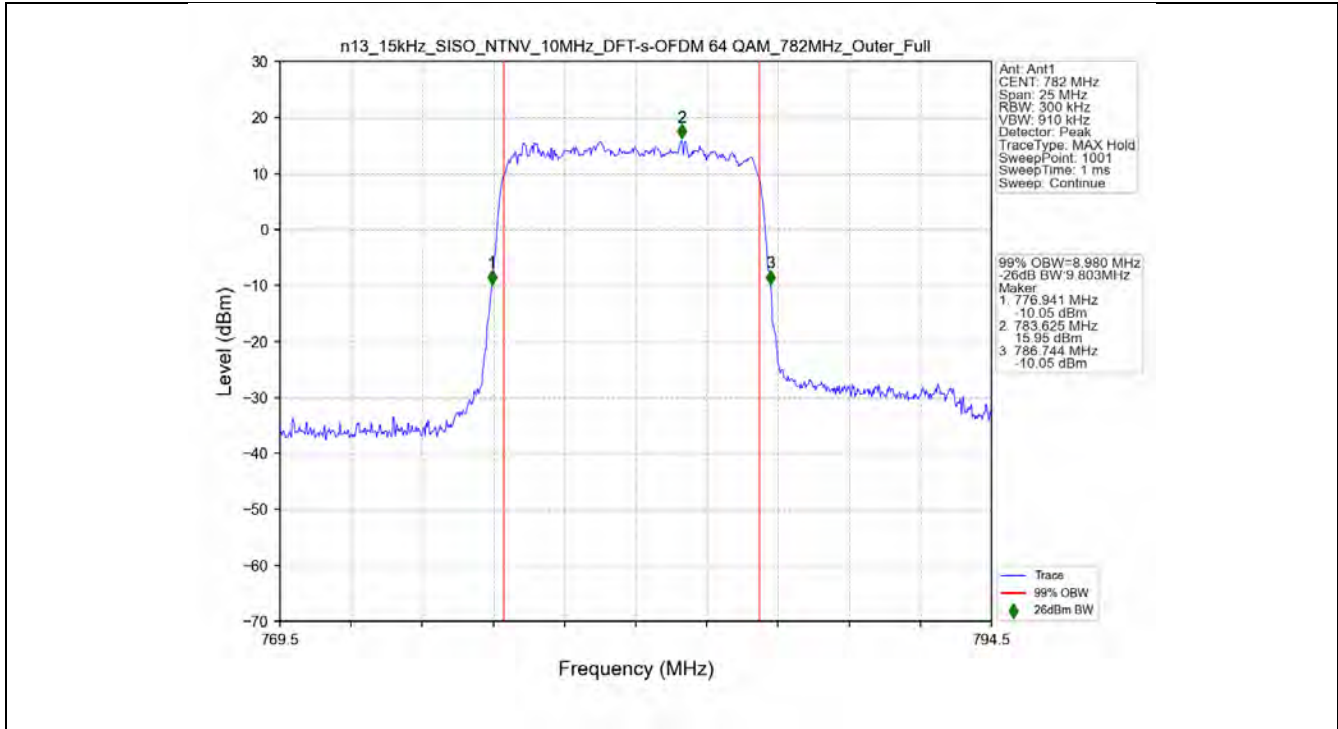


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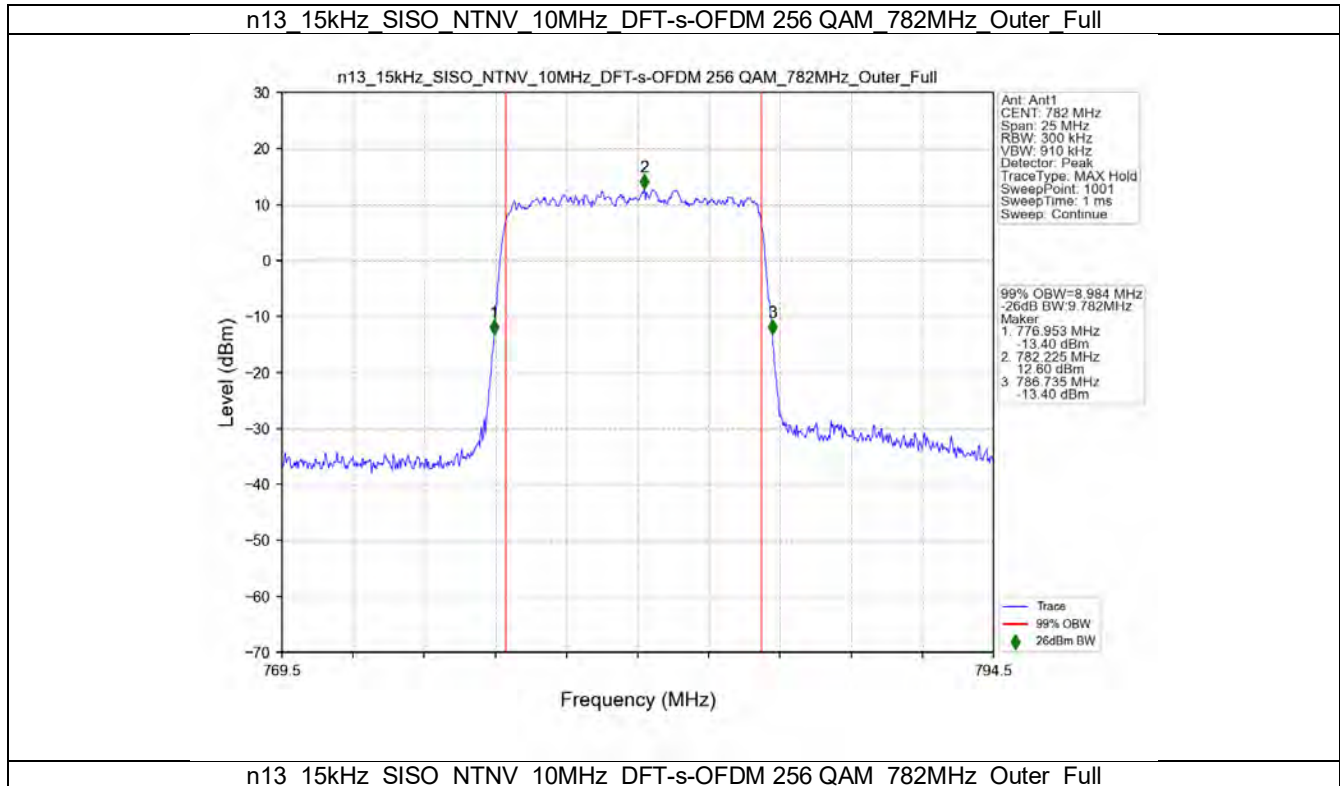


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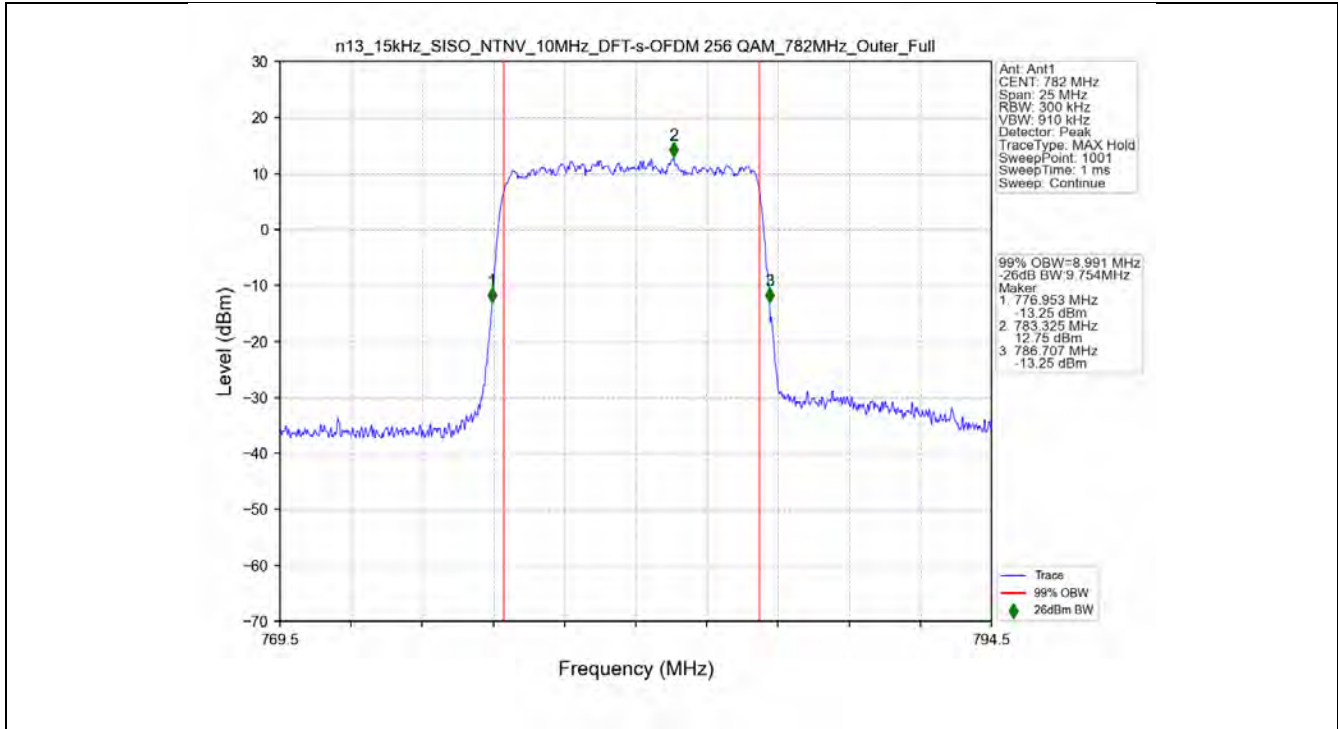


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Rev.: 01

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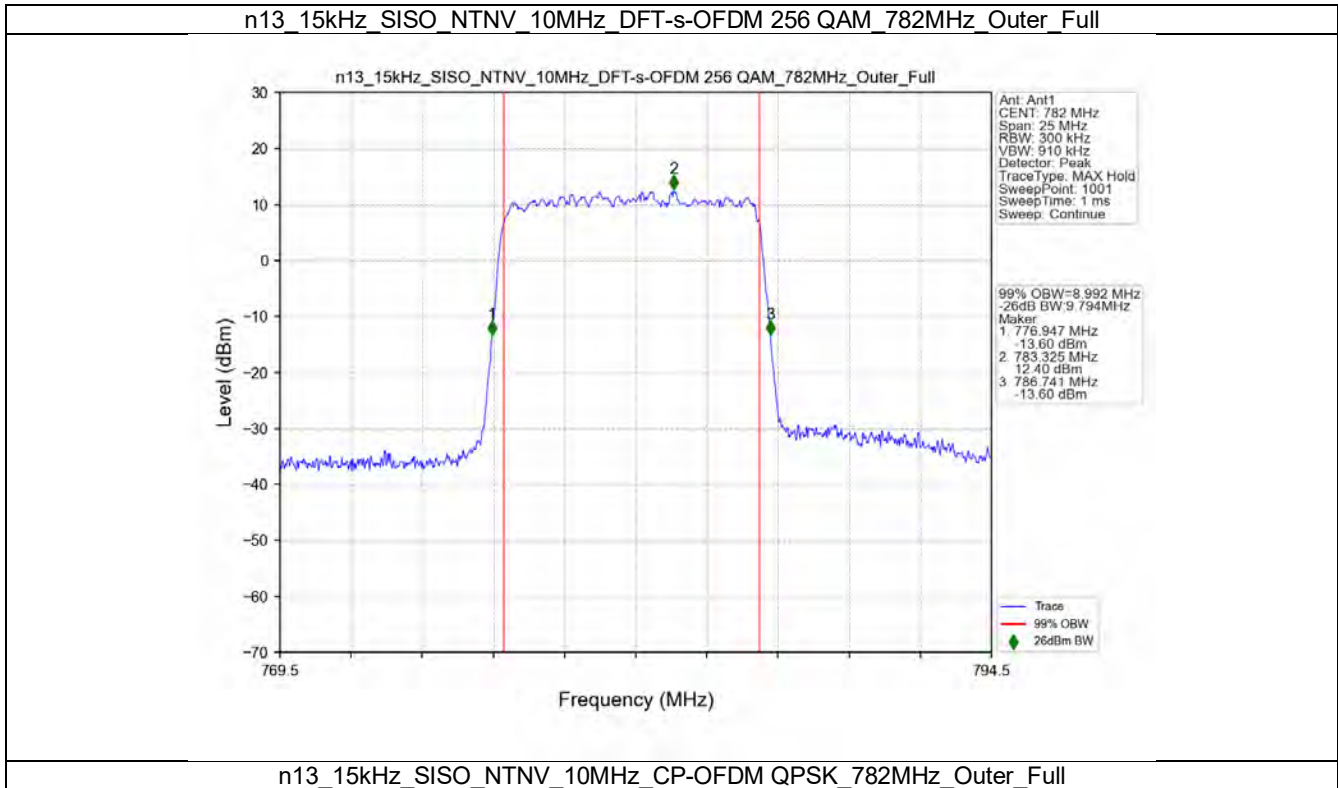


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Report No.: SZCR240100038409

Rev.: 01

Page: 58 of 237



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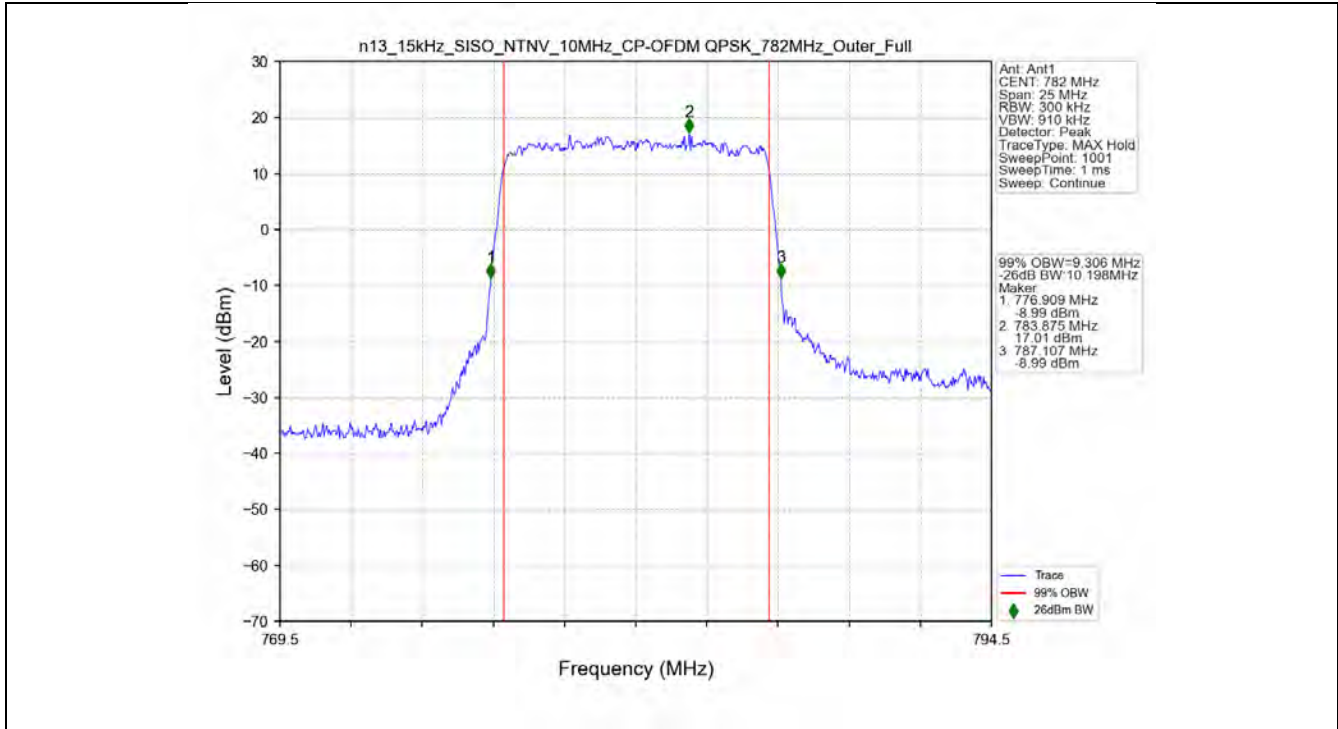


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Report No.: SZCR240100038409

Rev.: 01

Page: 59 of 237



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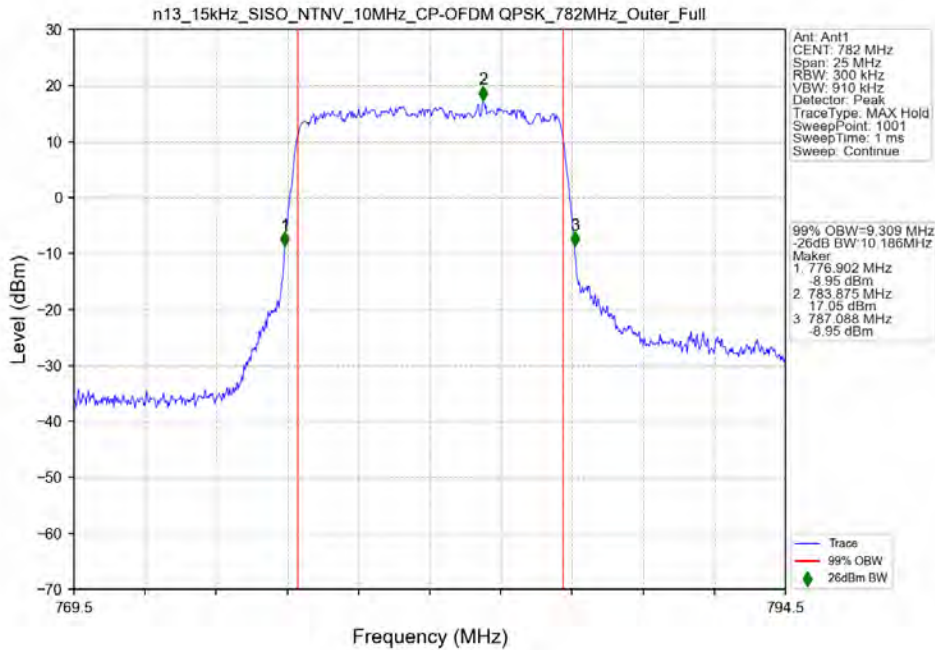
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 60 of 237

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Outer_Full



n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Outer_Full



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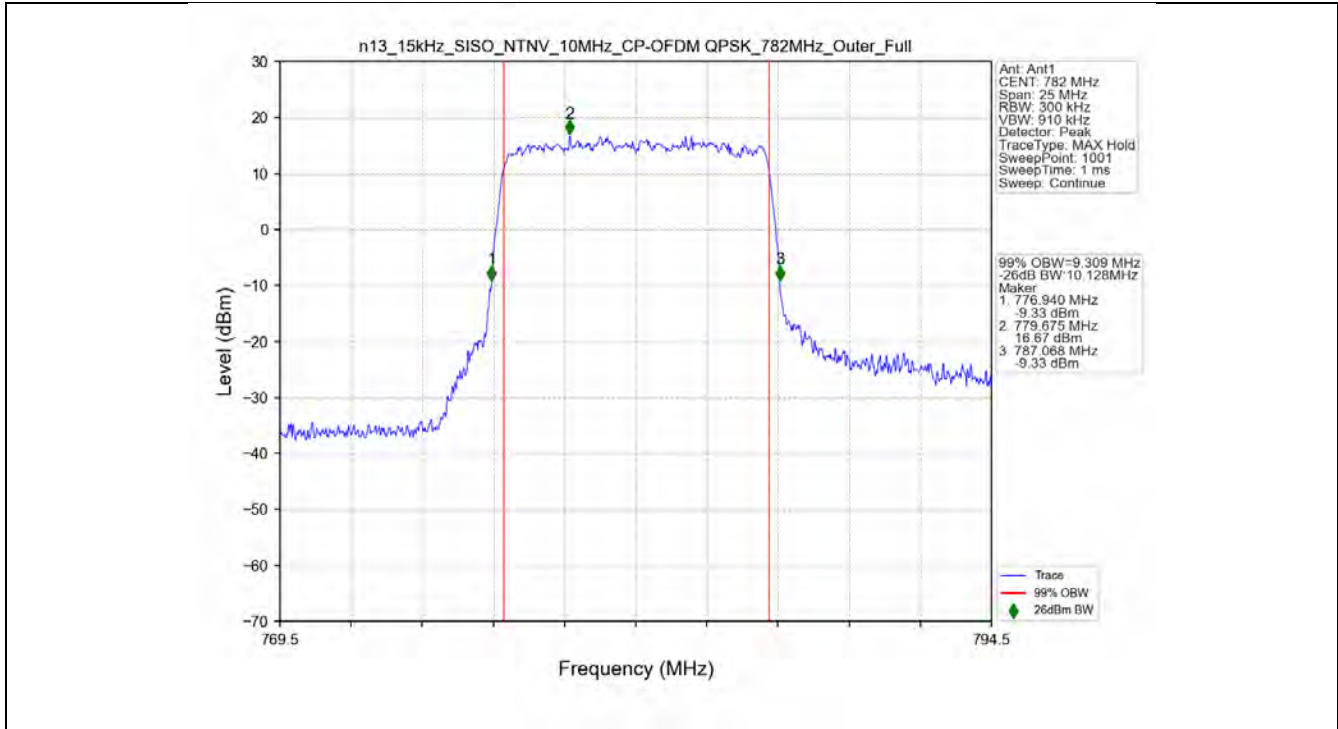


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Report No.: SZCR240100038409

Rev.: 01

Page: 61 of 237



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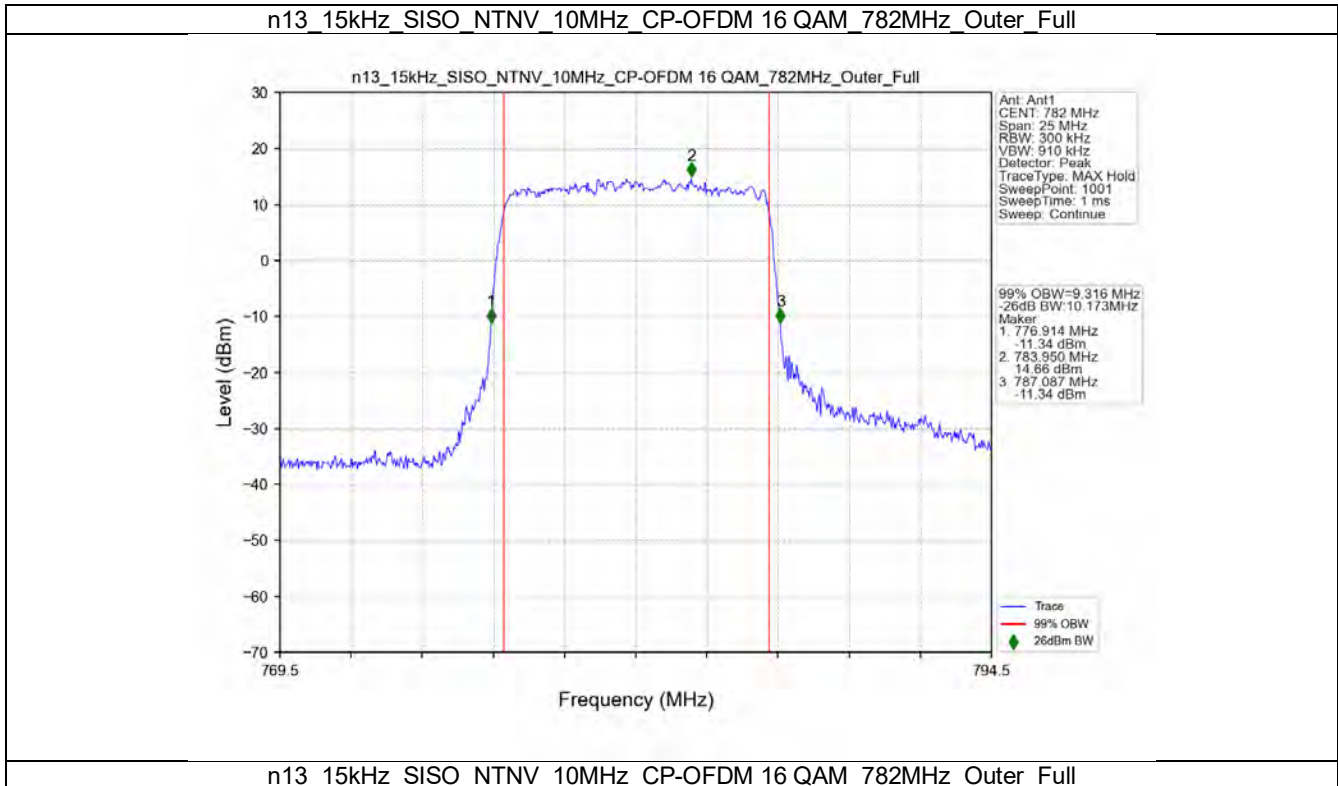


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Report No.: SZCR240100038409

Rev.: 01

Page: 62 of 237



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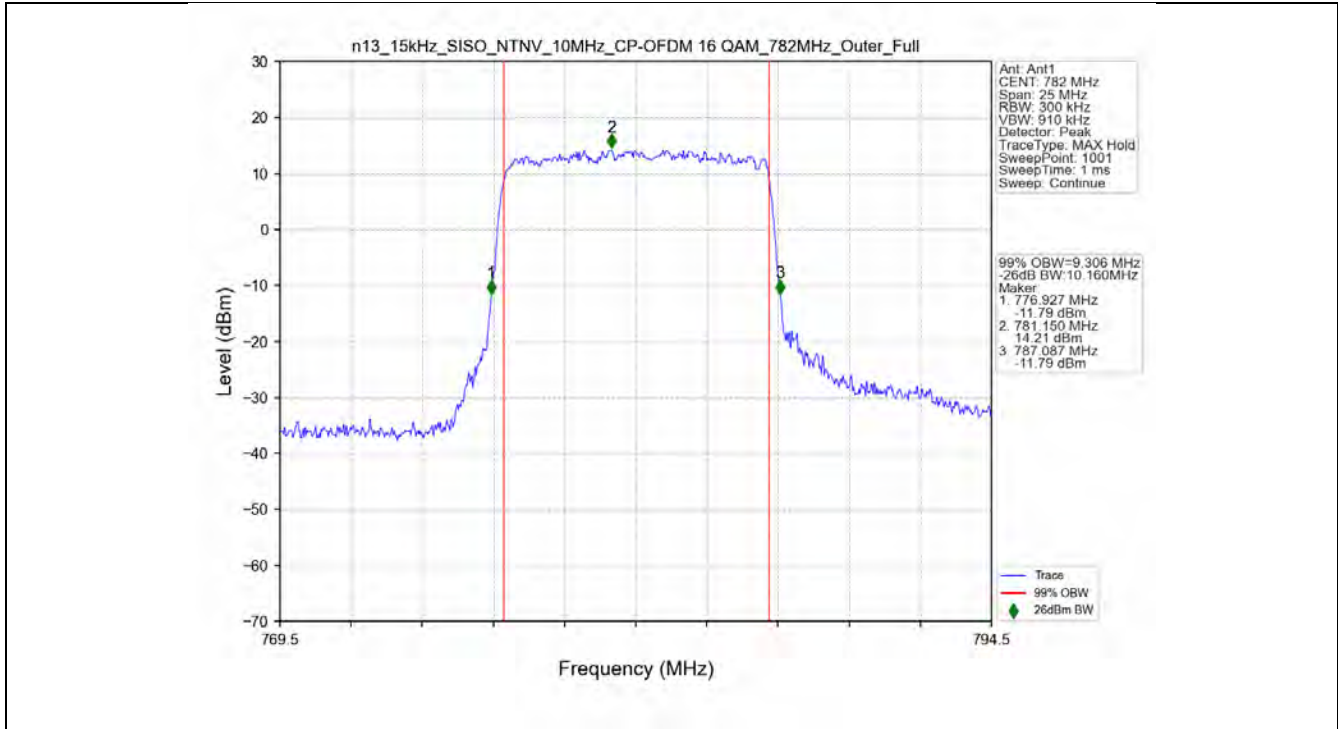


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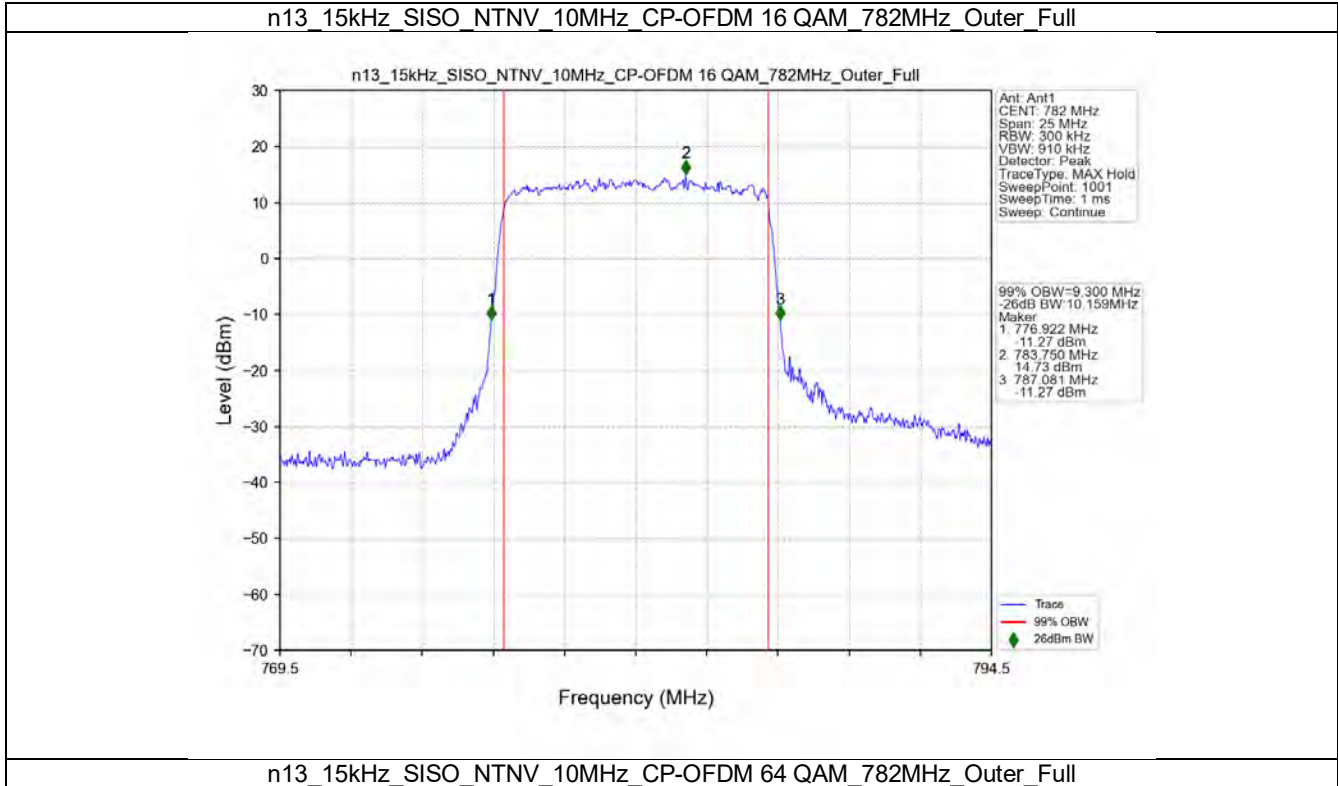


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Rev.: 01

Page: 64 of 237



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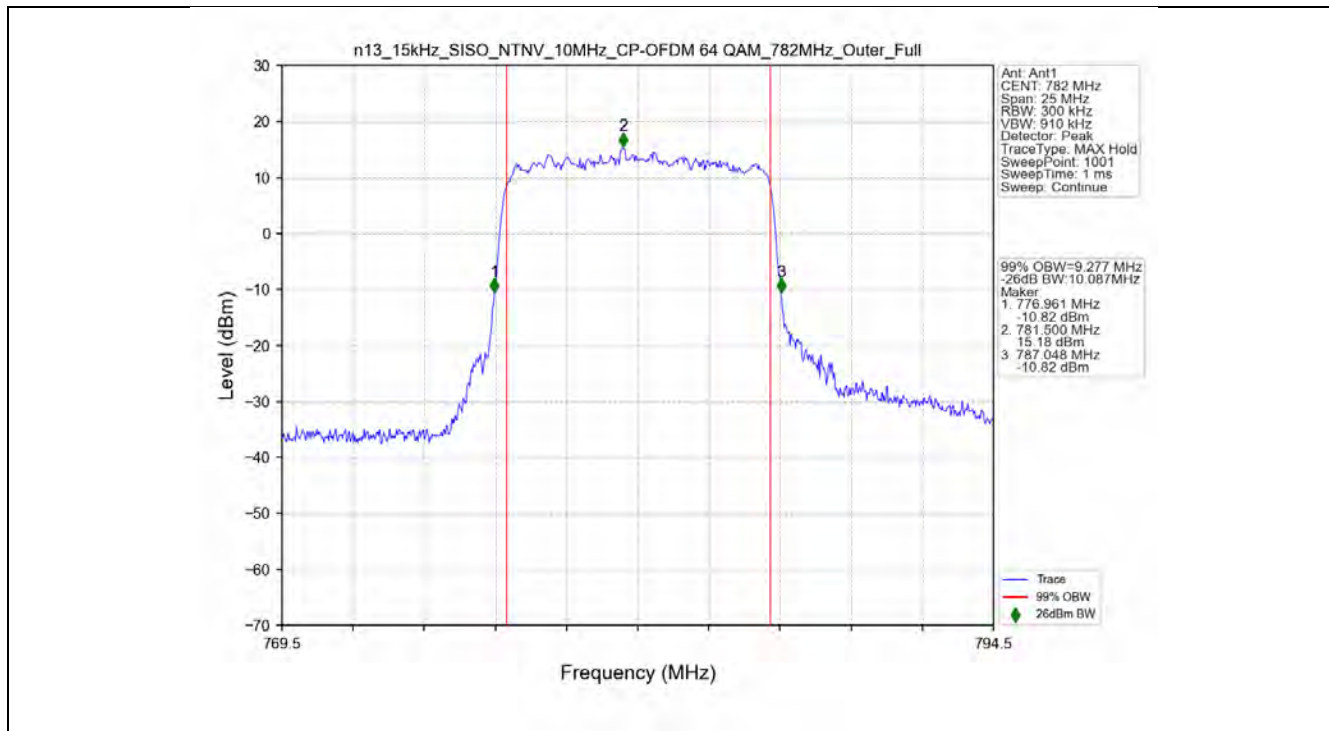
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Report No.: SZCR240100038409
Rev.: 01
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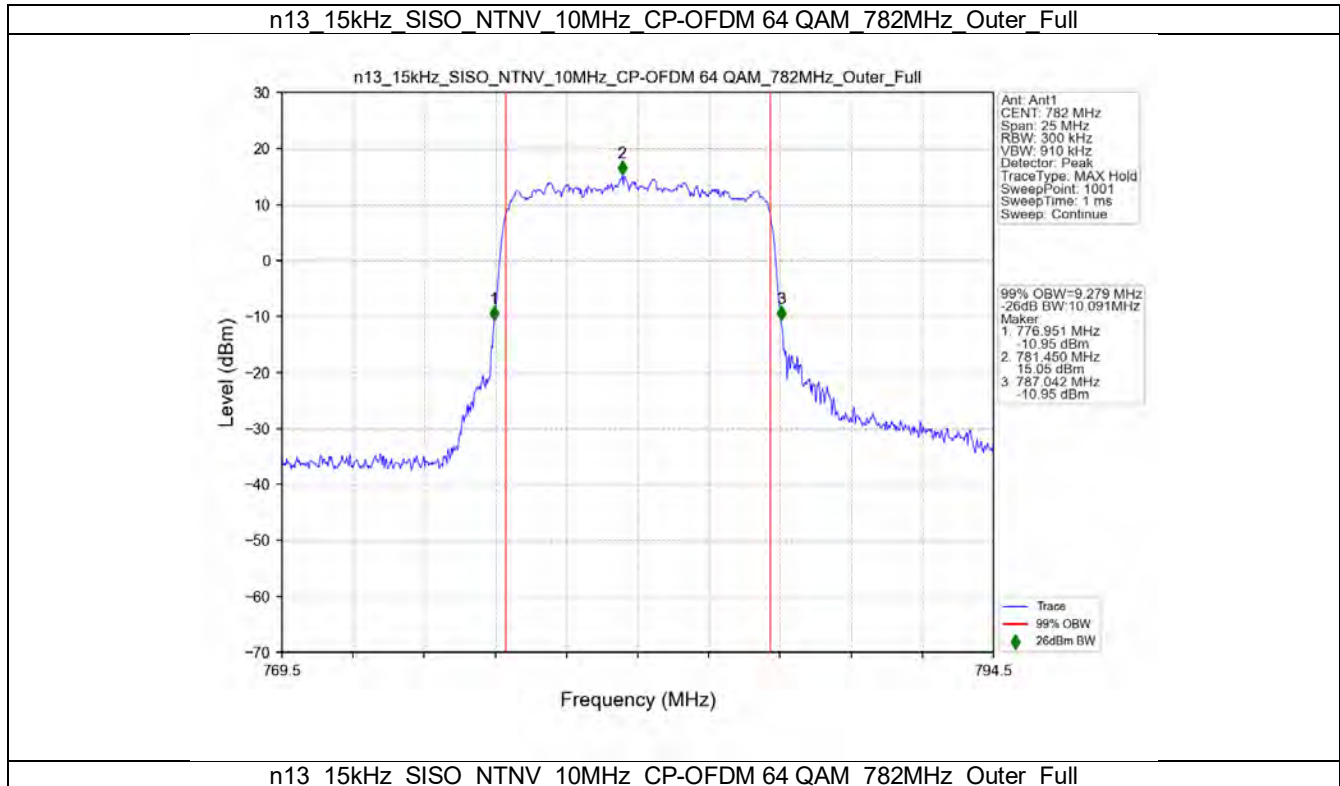


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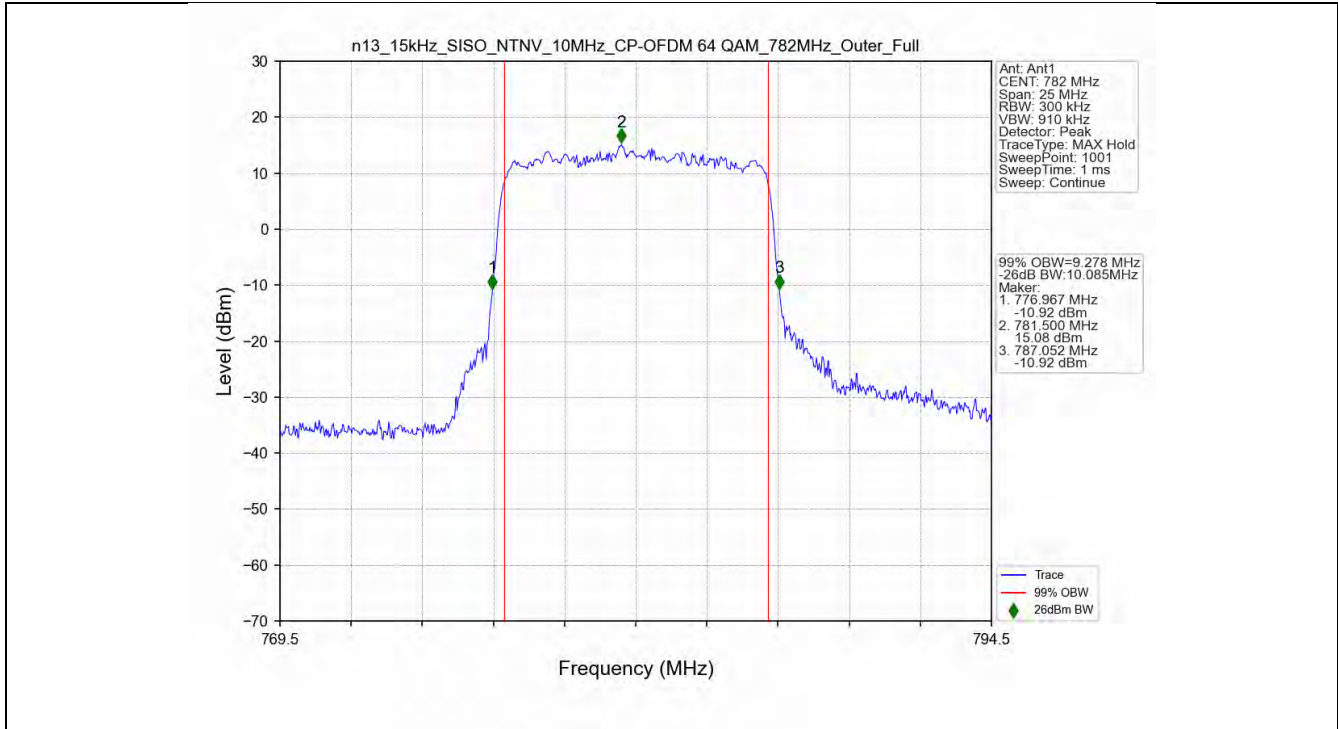


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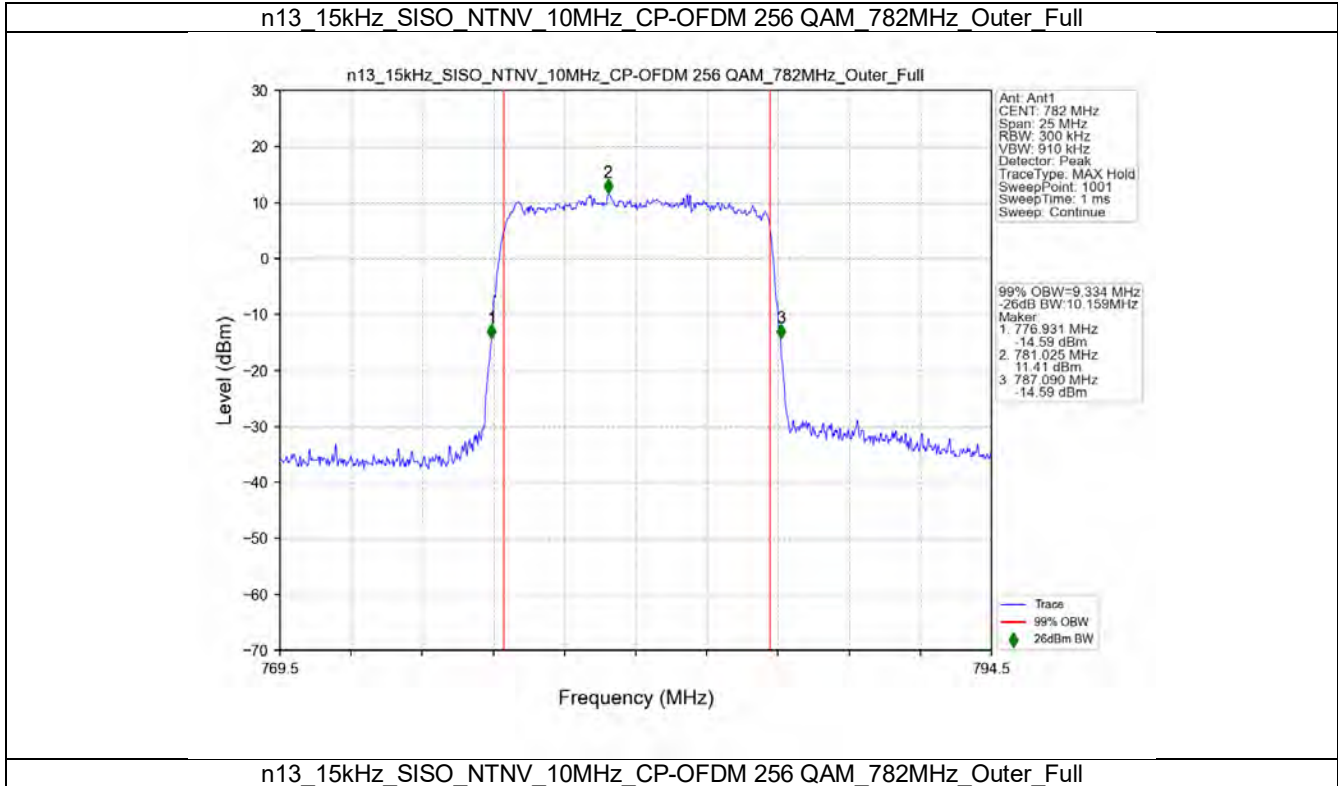


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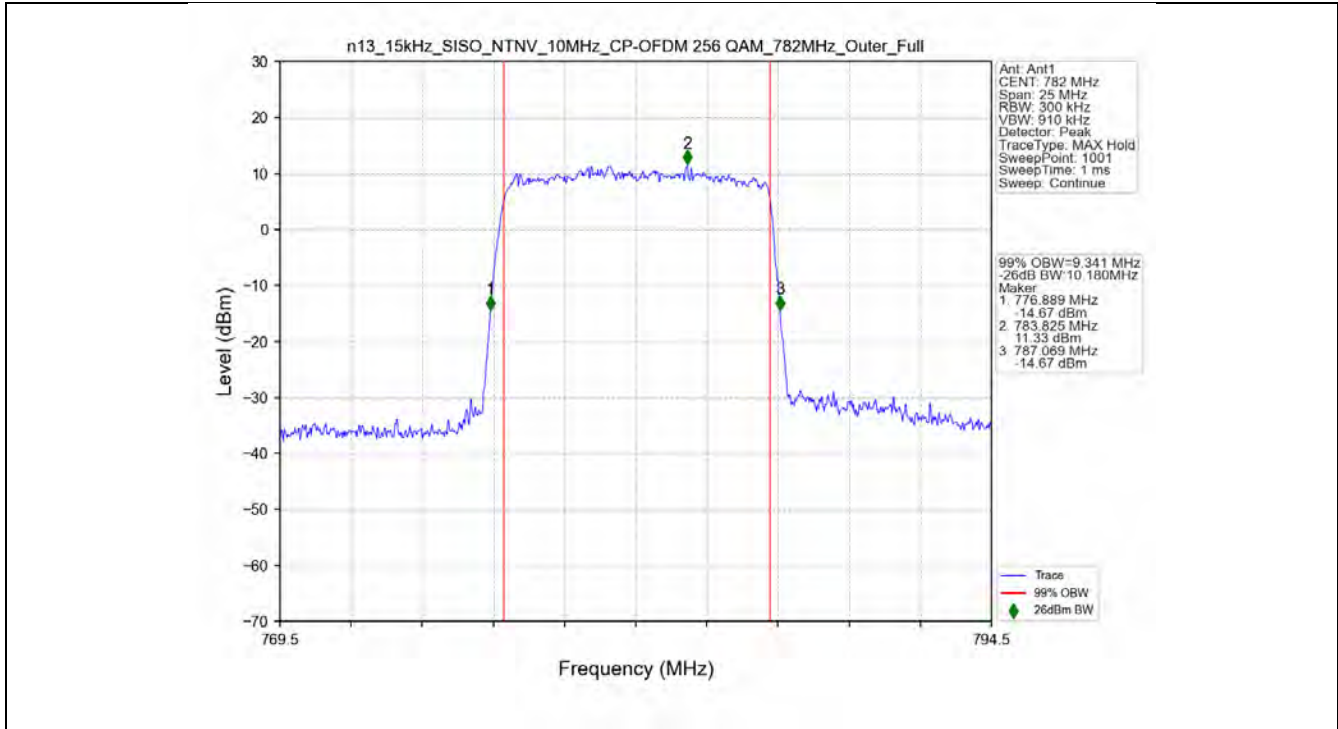


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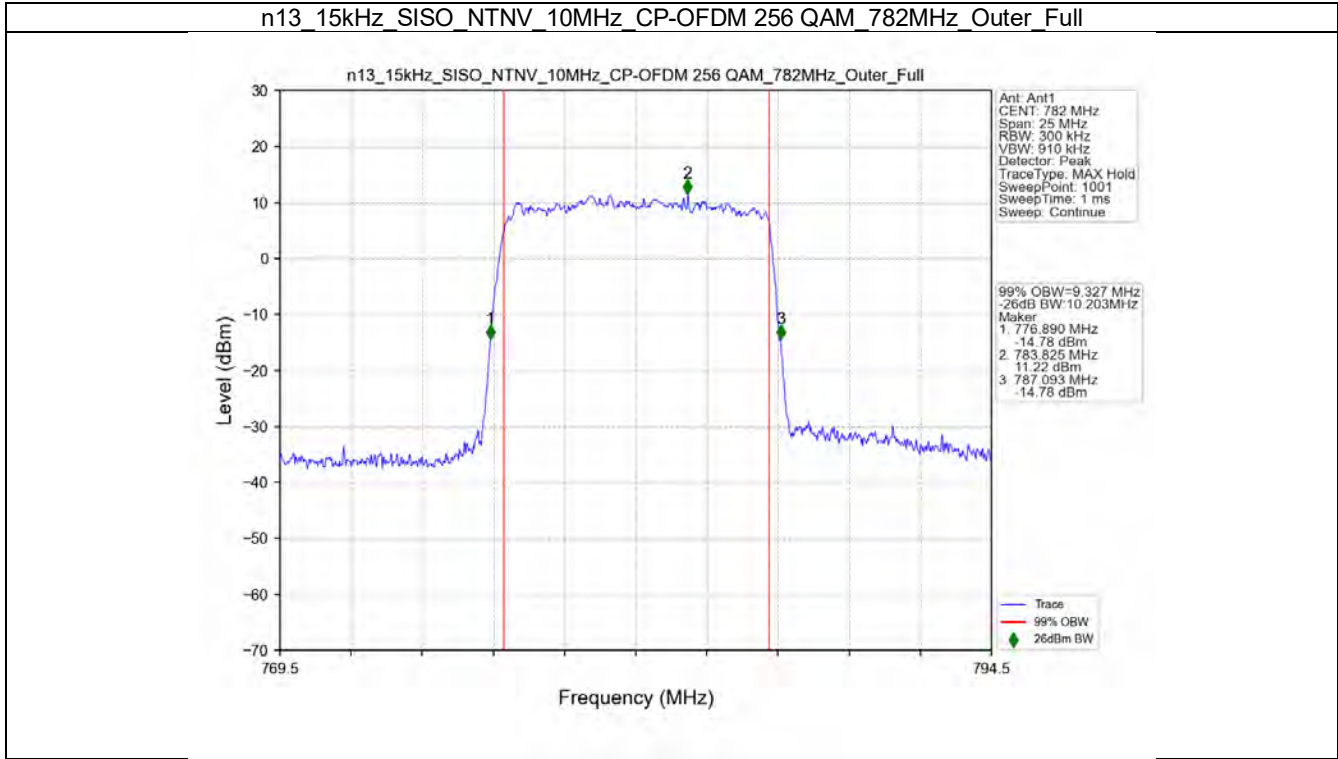


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Report No.: SZCR240100038409

Rev.: 01

Page: 71 of 237

4. Peak-Average Ratio

4.1 15k_SISO_5MHz_NTNV

4.1.1 Test Result

5G NR n13 SCS=15kHz SISO 5MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)			Verdict	
			Ant1	Ant2	Sum		
DFT-s-OFDM PI/2 BPSK	779.5	Outer_Full	4.06	/	/	<=13	Pass
	782	Outer_Full	3.94	/	/	<=13	Pass
	784.5	Outer_Full	4.26	/	/	<=13	Pass
DFT-s-OFDM QPSK	779.5	Outer_Full	5.04	/	/	<=13	Pass
	782	Outer_Full	4.48	/	/	<=13	Pass
	784.5	Outer_Full	5.32	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	779.5	Outer_Full	6.11	/	/	<=13	Pass
	782	Outer_Full	5.72	/	/	<=13	Pass
	784.5	Outer_Full	6.38	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	779.5	Outer_Full	6.48	/	/	<=13	Pass
	782	Outer_Full	6.23	/	/	<=13	Pass
	784.5	Outer_Full	6.64	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	779.5	Outer_Full	6.63	/	/	<=13	Pass
	782	Outer_Full	6.53	/	/	<=13	Pass
	784.5	Outer_Full	6.61	/	/	<=13	Pass
CP-OFDM QPSK	779.5	Outer_Full	6.88	/	/	<=13	Pass
	782	Outer_Full	6.69	/	/	<=13	Pass
	784.5	Outer_Full	6.61	/	/	<=13	Pass
CP-OFDM 16 QAM	779.5	Outer_Full	7.82	/	/	<=13	Pass
	782	Outer_Full	7.24	/	/	<=13	Pass
	784.5	Outer_Full	7.15	/	/	<=13	Pass
CP-OFDM 64 QAM	779.5	Outer_Full	8.14	/	/	<=13	Pass
	782	Outer_Full	7.84	/	/	<=13	Pass
	784.5	Outer_Full	7.71	/	/	<=13	Pass
CP-OFDM 256 QAM	779.5	Outer_Full	8.58	/	/	<=13	Pass
	782	Outer_Full	8.58	/	/	<=13	Pass
	784.5	Outer_Full	8.60	/	/	<=13	Pass



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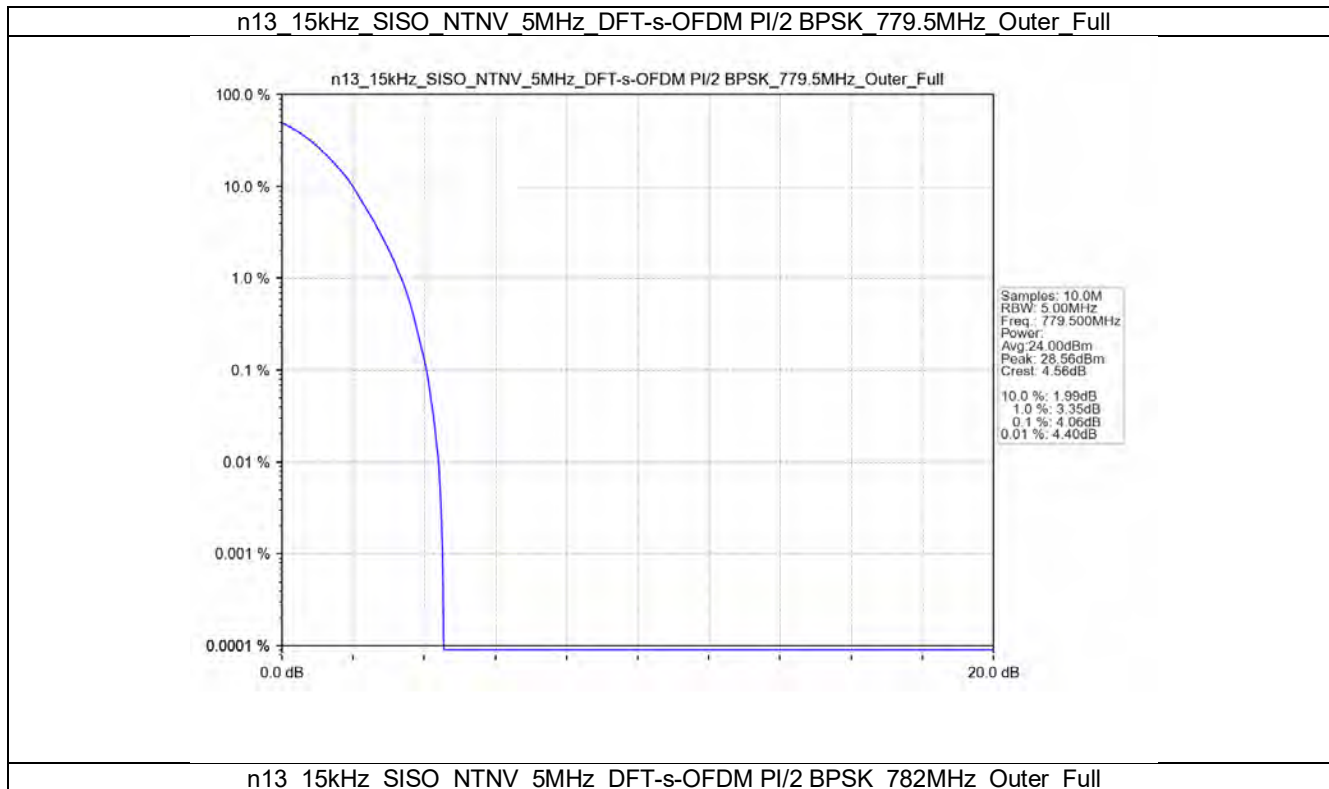
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Report No.: SZCR240100038409
Rev.: 01
Page: 72 of 237

4.1.2 Test Graph



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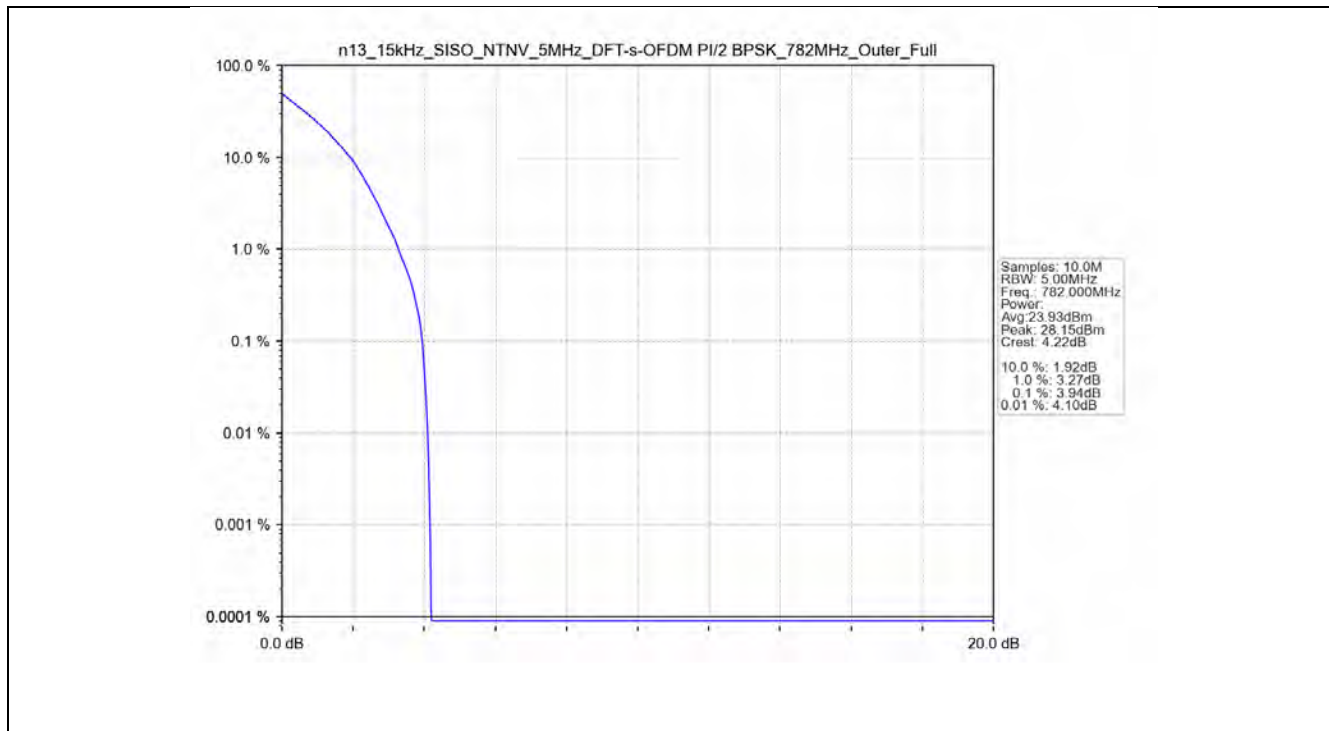
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Report No.: SZCR240100038409
Rev.: 01
Page: 73 of 237



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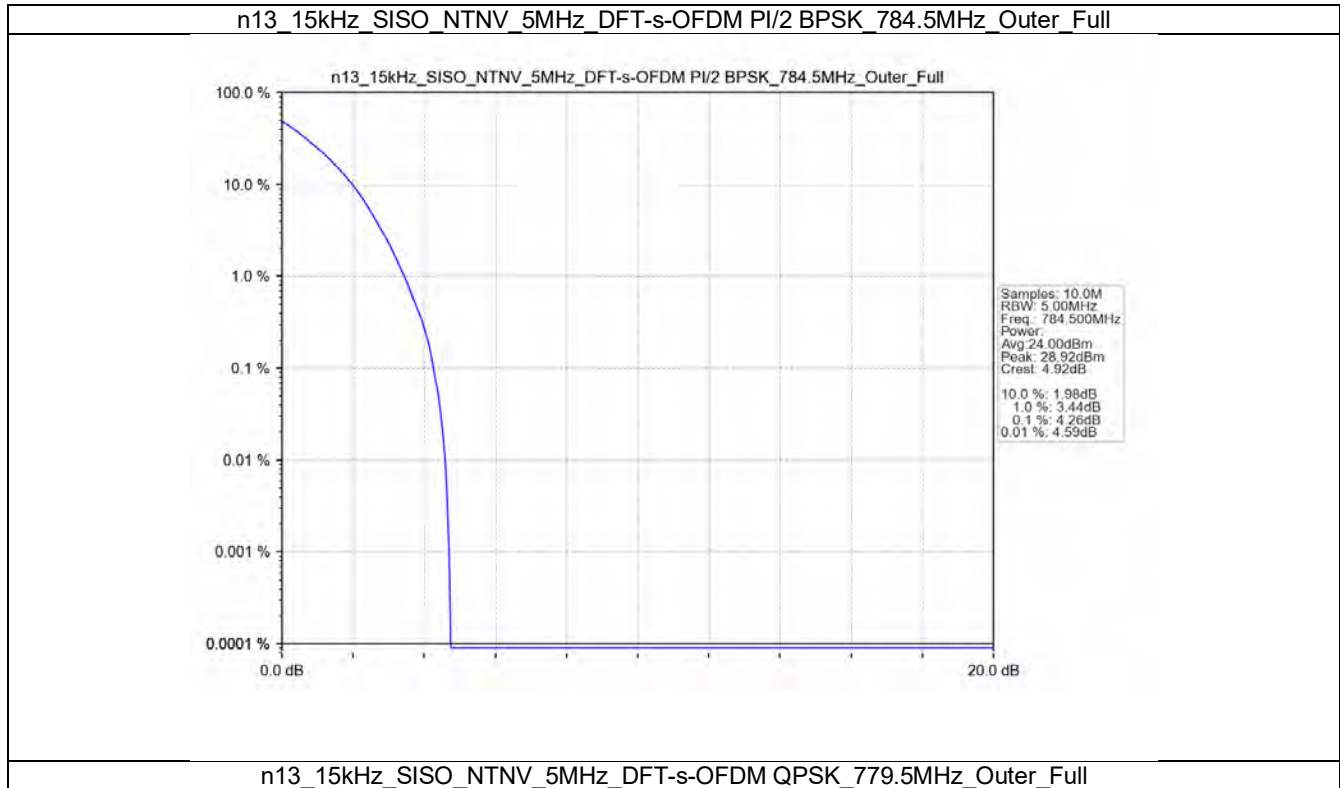


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Report No.: SZCR240100038409

Rev.: 01

Page: 74 of 237



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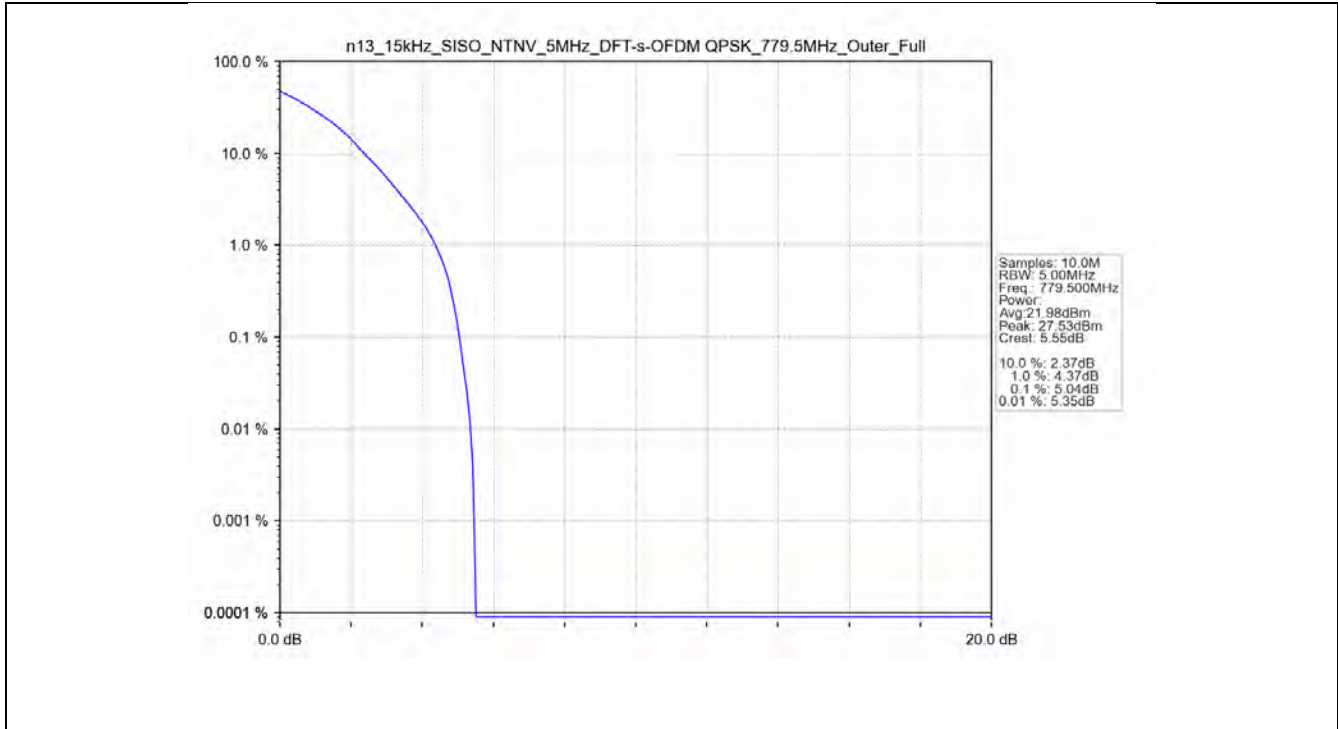


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Report No.: SZCR240100038409

Rev.: 01

Page: 75 of 237



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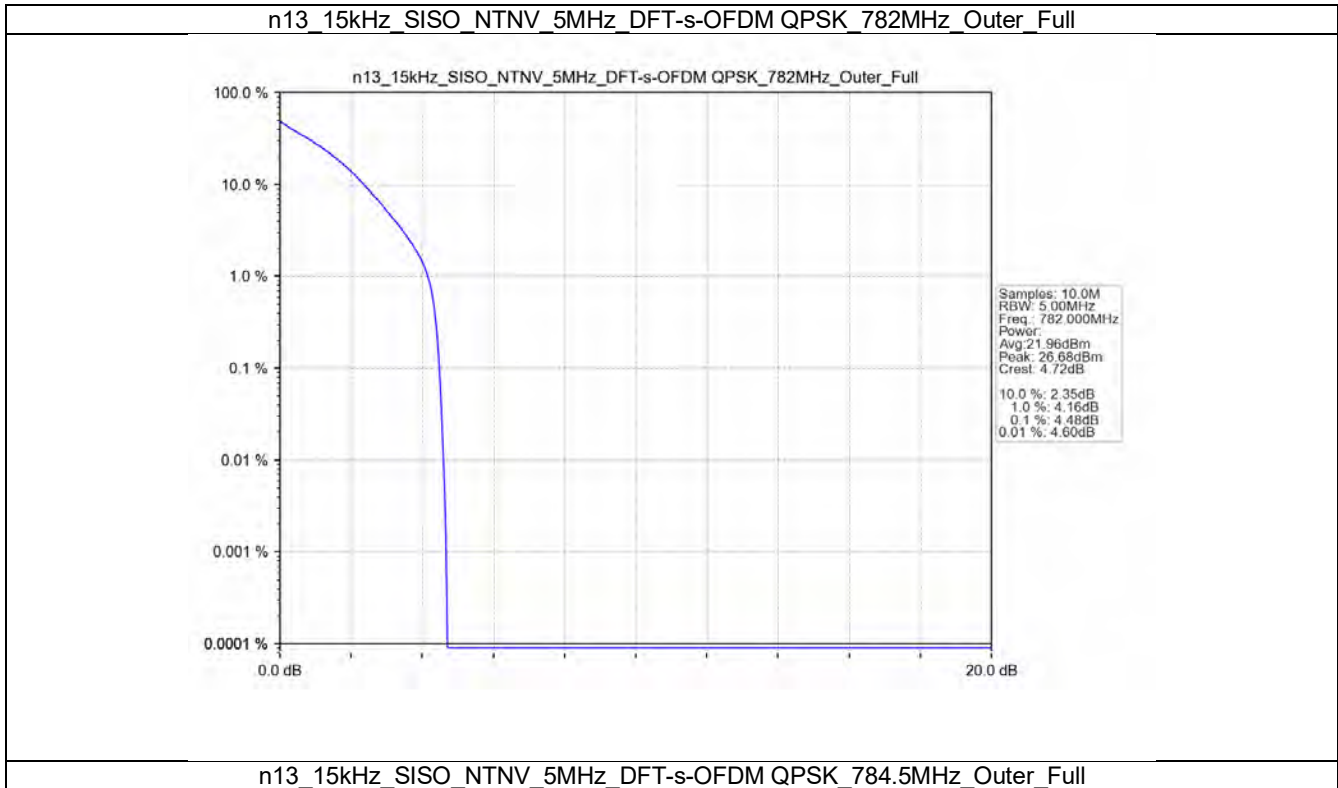


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Report No.: SZCR240100038409

Rev.: 01

Page: 76 of 237



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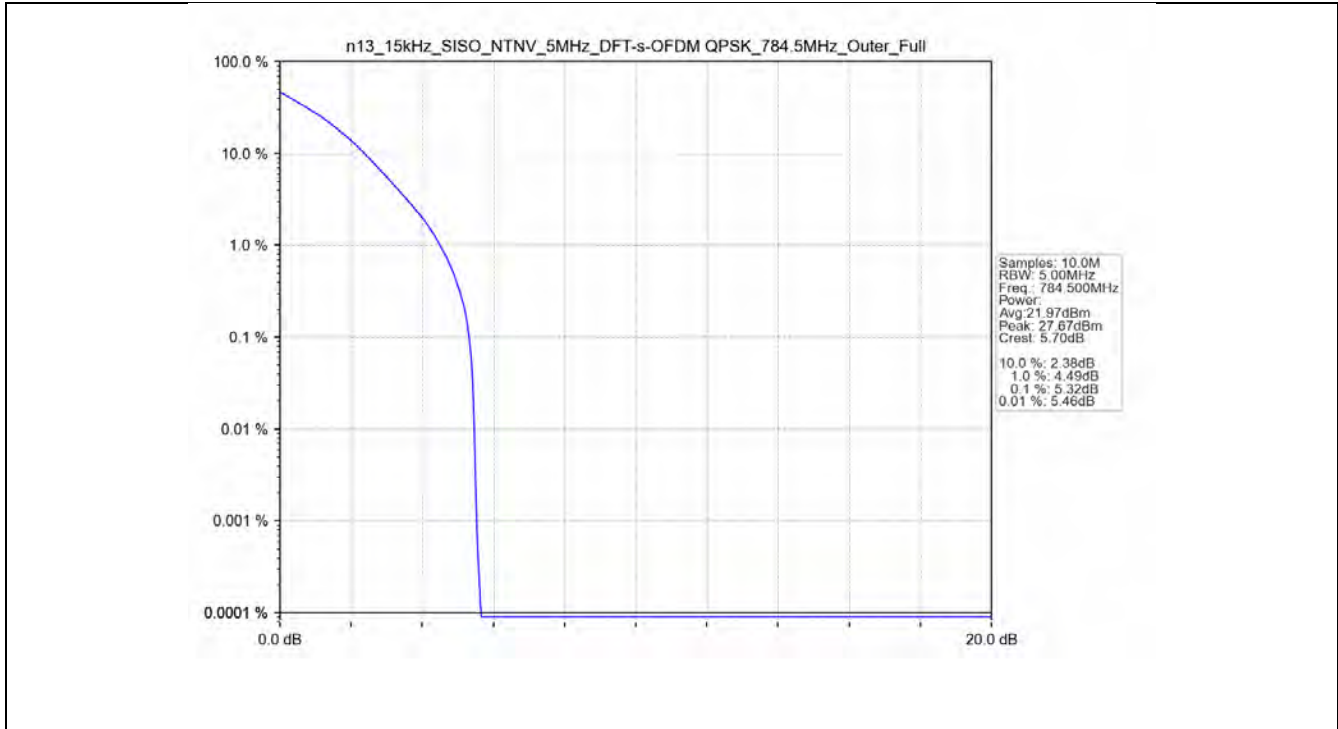


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Report No.: SZCR240100038409

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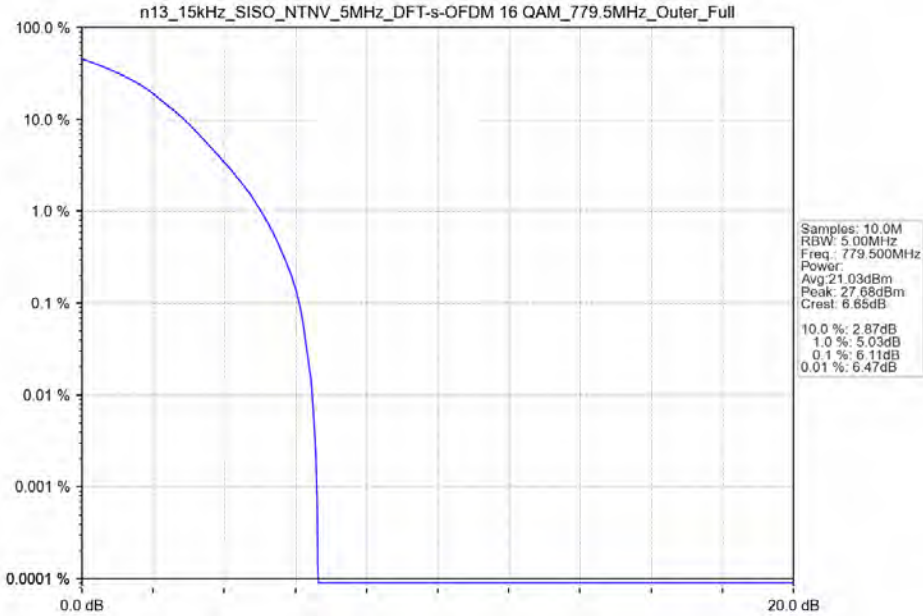
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Report No.: SZCR240100038409

Rev.: 01

Page: 78 of 237

n13 15kHz SISO NTNv 5MHz DFT-s-OFDM 16 QAM 779.5MHz Outer_Full



n13 15kHz SISO NTNv 5MHz DFT-s-OFDM 16 QAM 782MHz Outer_Full



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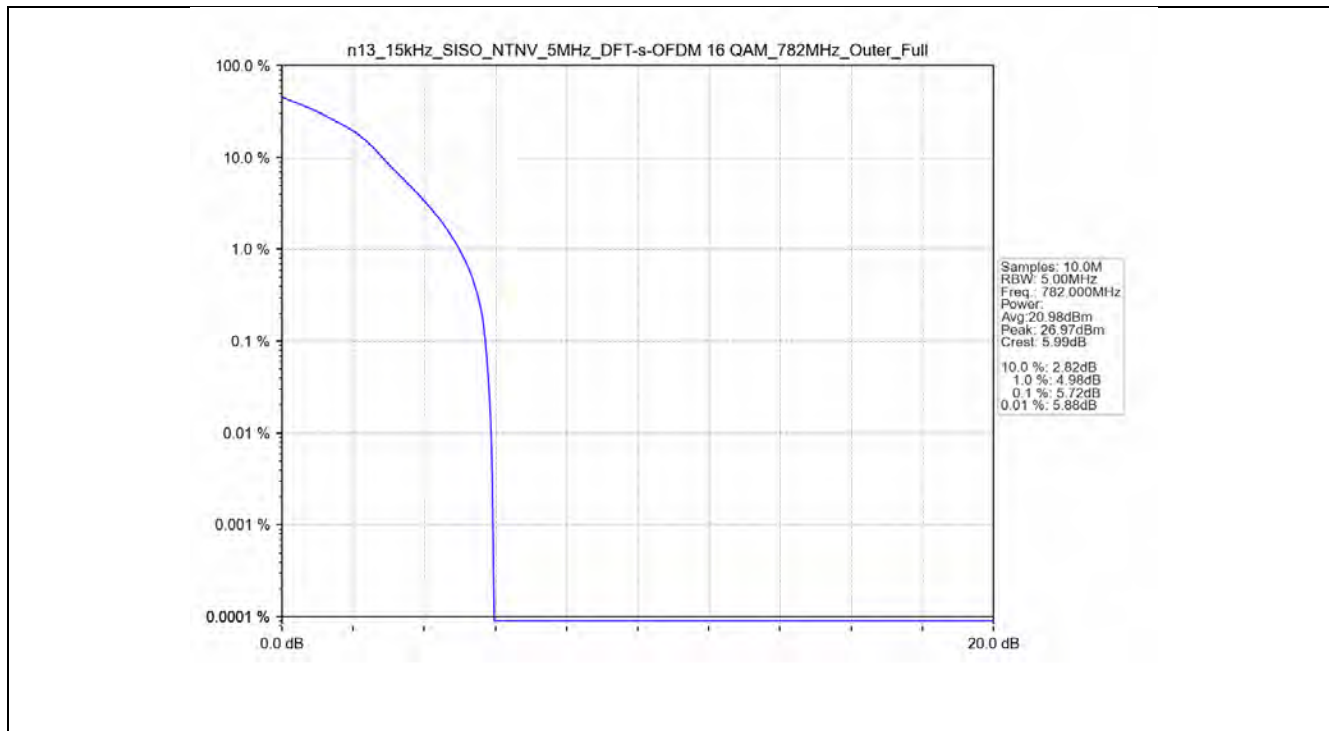
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Rev.: 01
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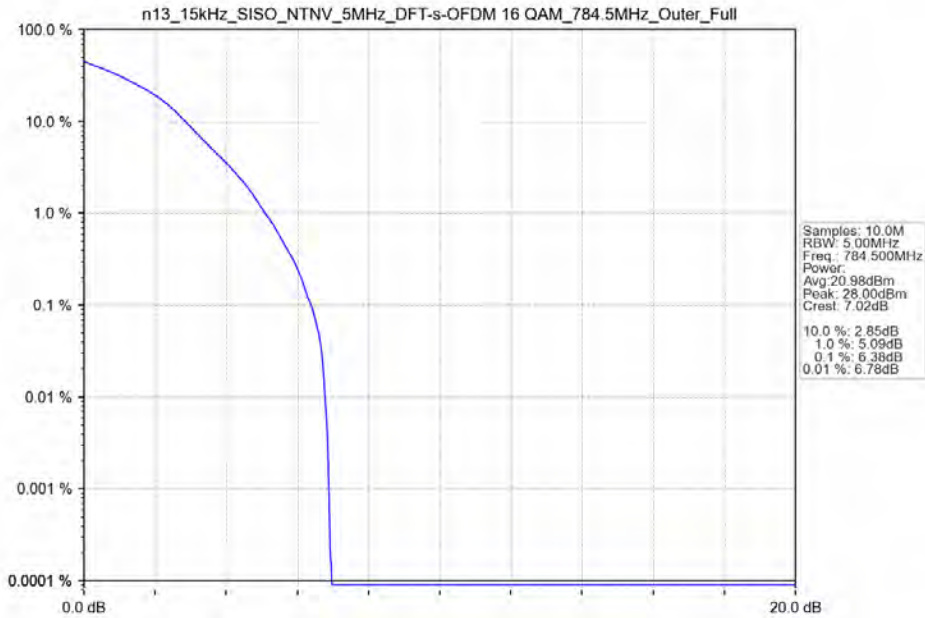
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Report No.: SZCR240100038409

Rev.: 01

Page: 80 of 237

n13 15kHz SISO NTNv 5MHz DFT-s-OFDM 16 QAM 784.5MHz Outer_Full



n13 15kHz SISO NTNv 5MHz DFT-s-OFDM 64 QAM 779.5MHz Outer_Full



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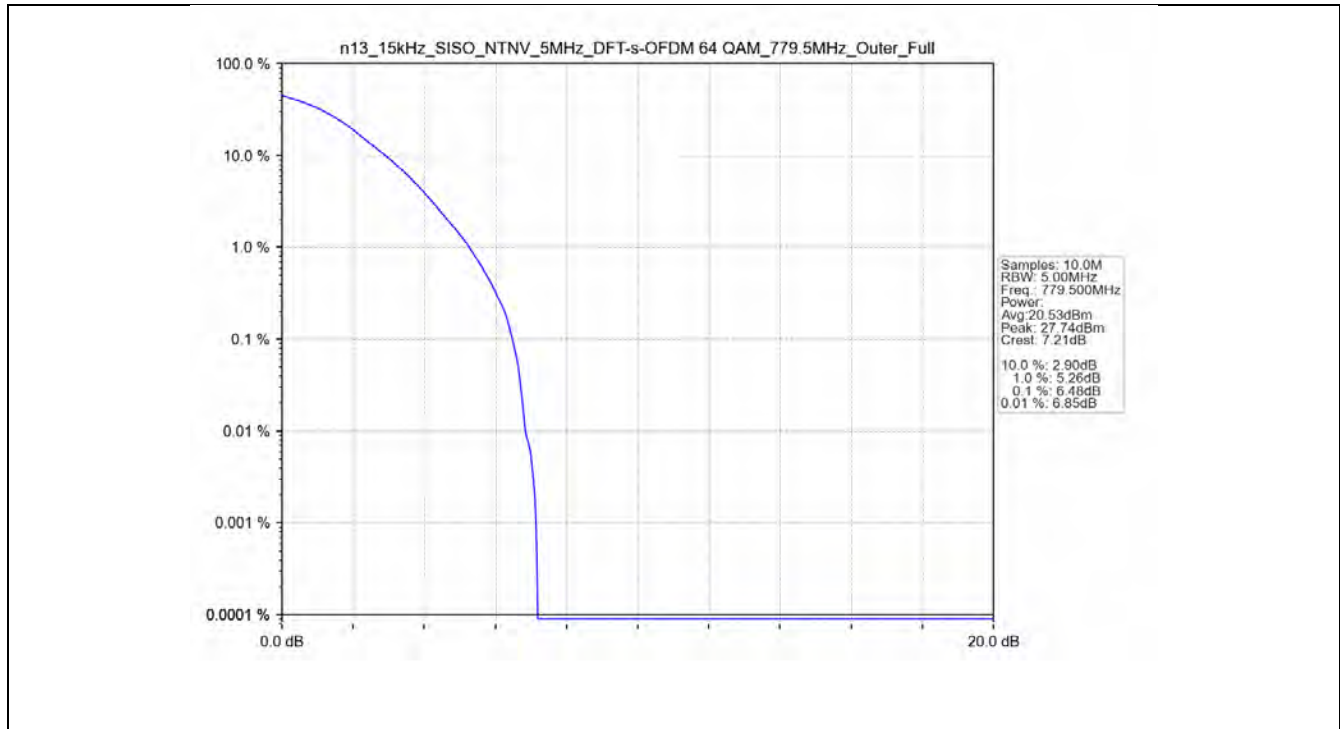


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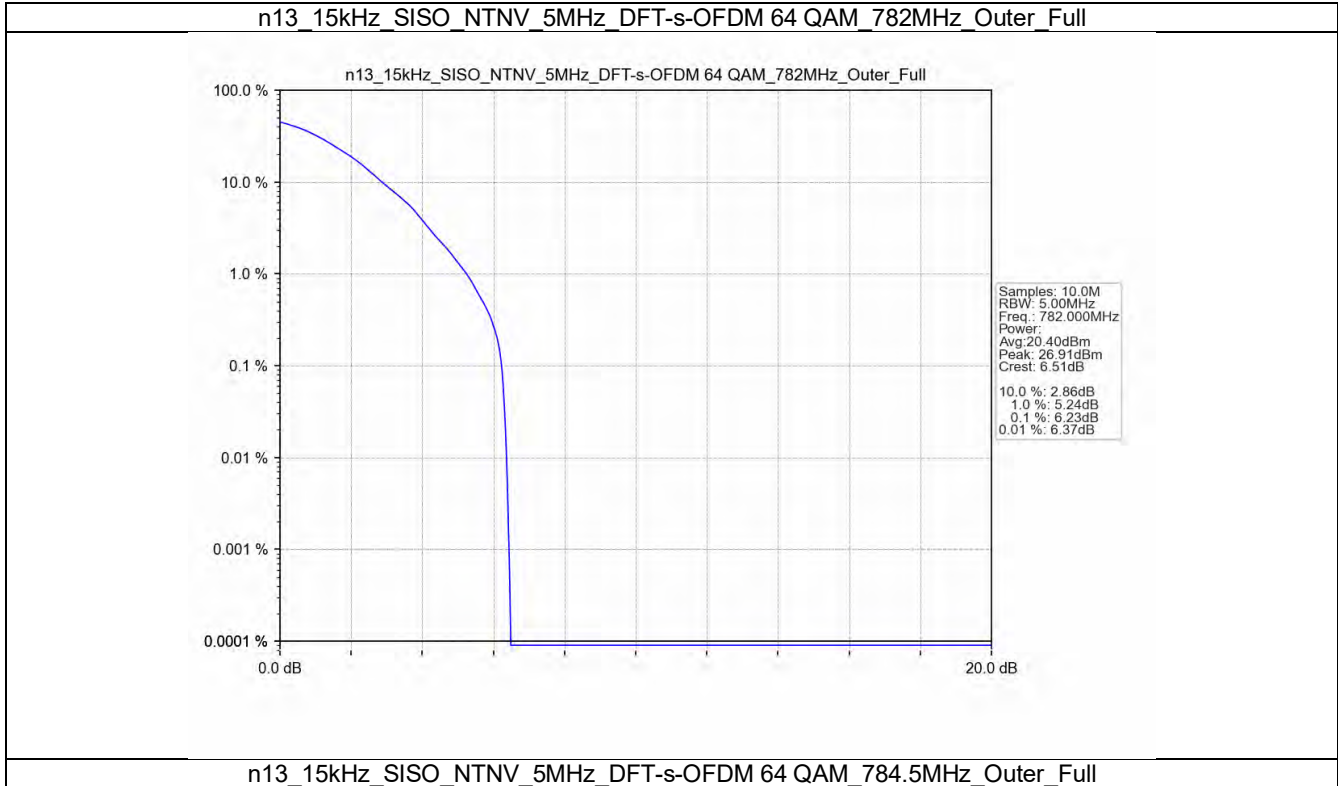


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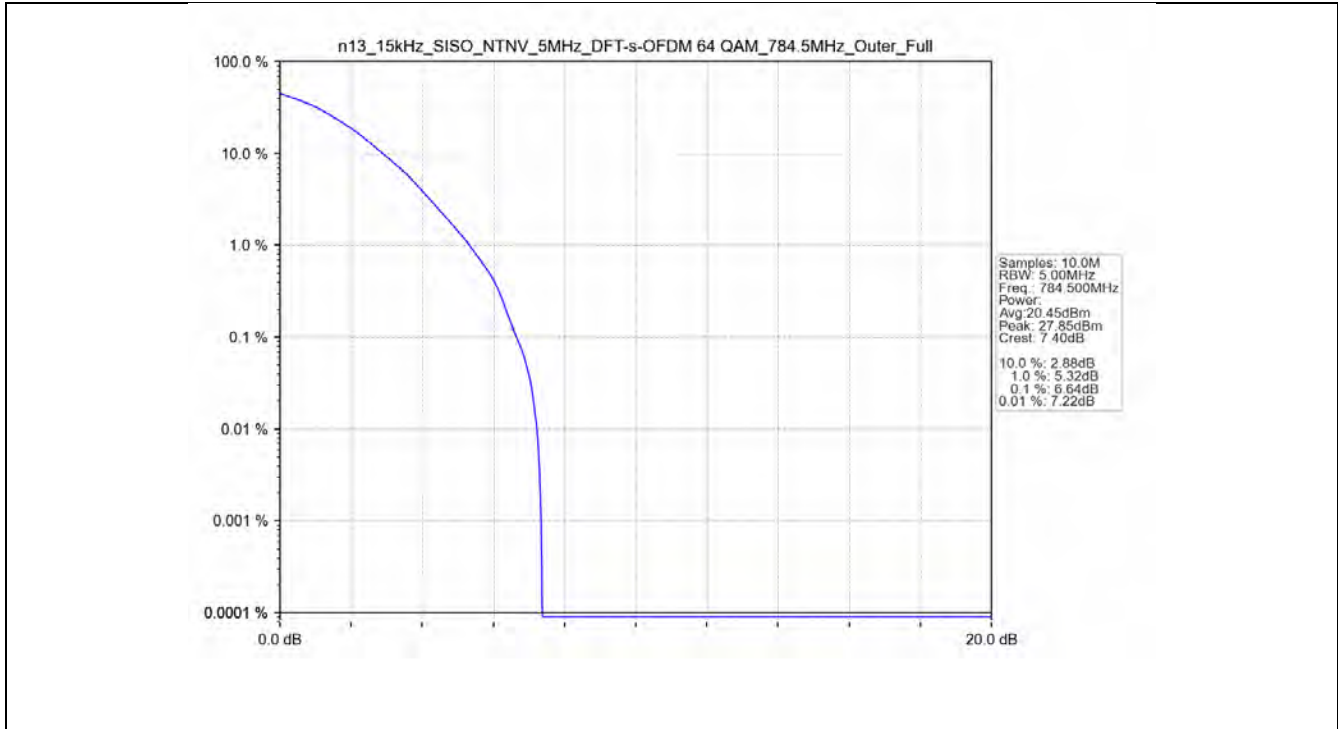


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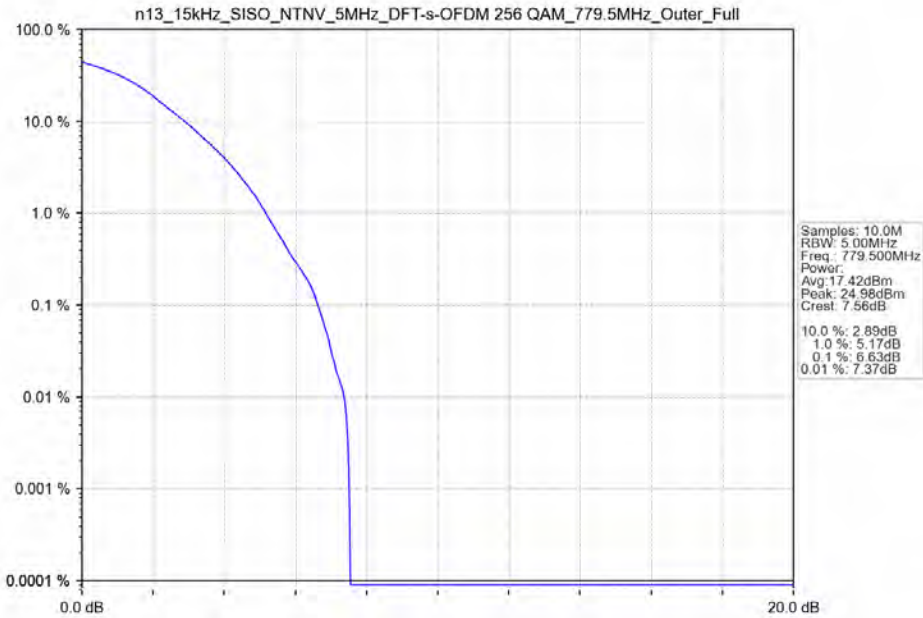
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Report No.: SZCR240100038409

Rev.: 01

Page: 84 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_779.5MHz_Outer_Full



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_782MHz_Outer_Full



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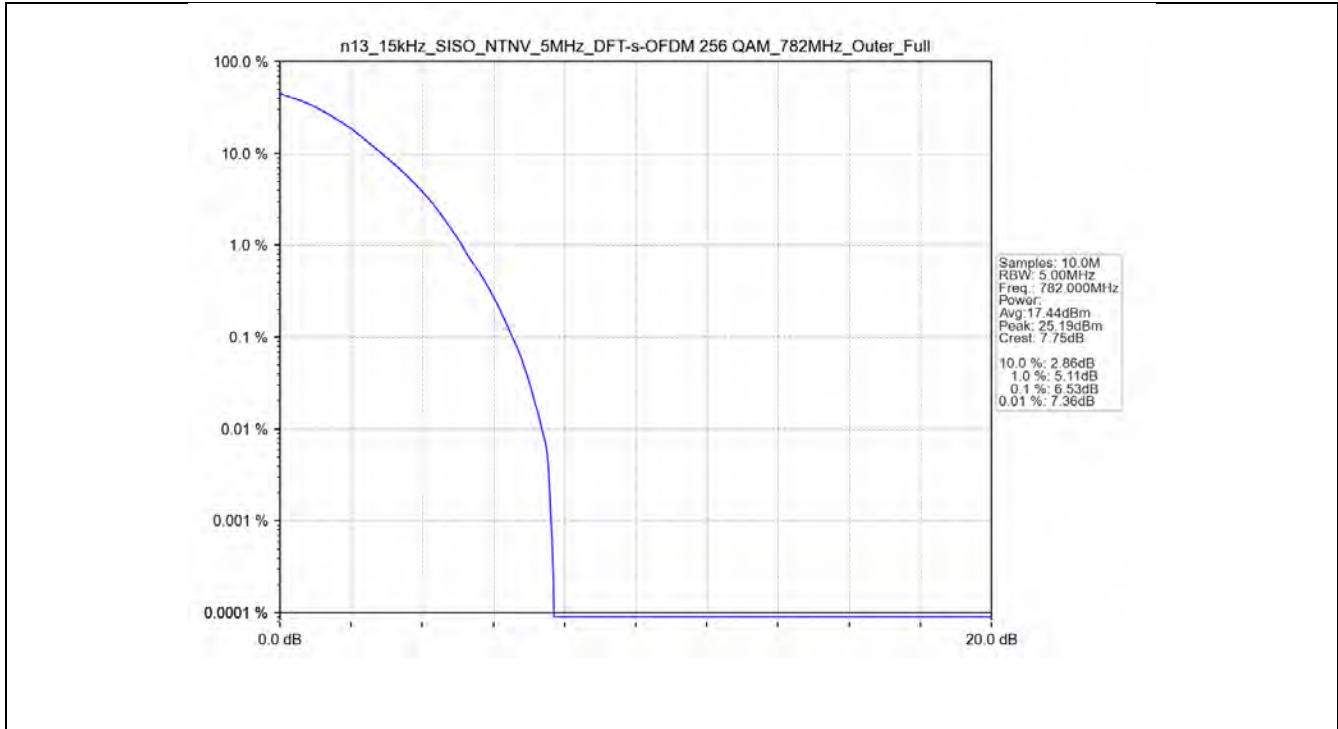


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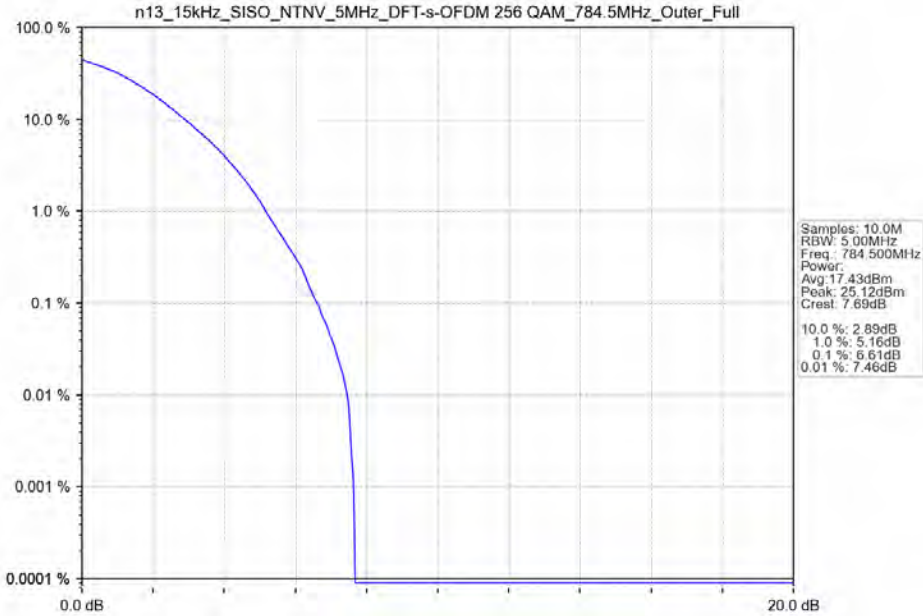
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Shenzhen Branch**

Report No.: SZCR240100038409

Rev.: 01

Page: 86 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_784.5MHz_Outer_Full



n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Outer_Full



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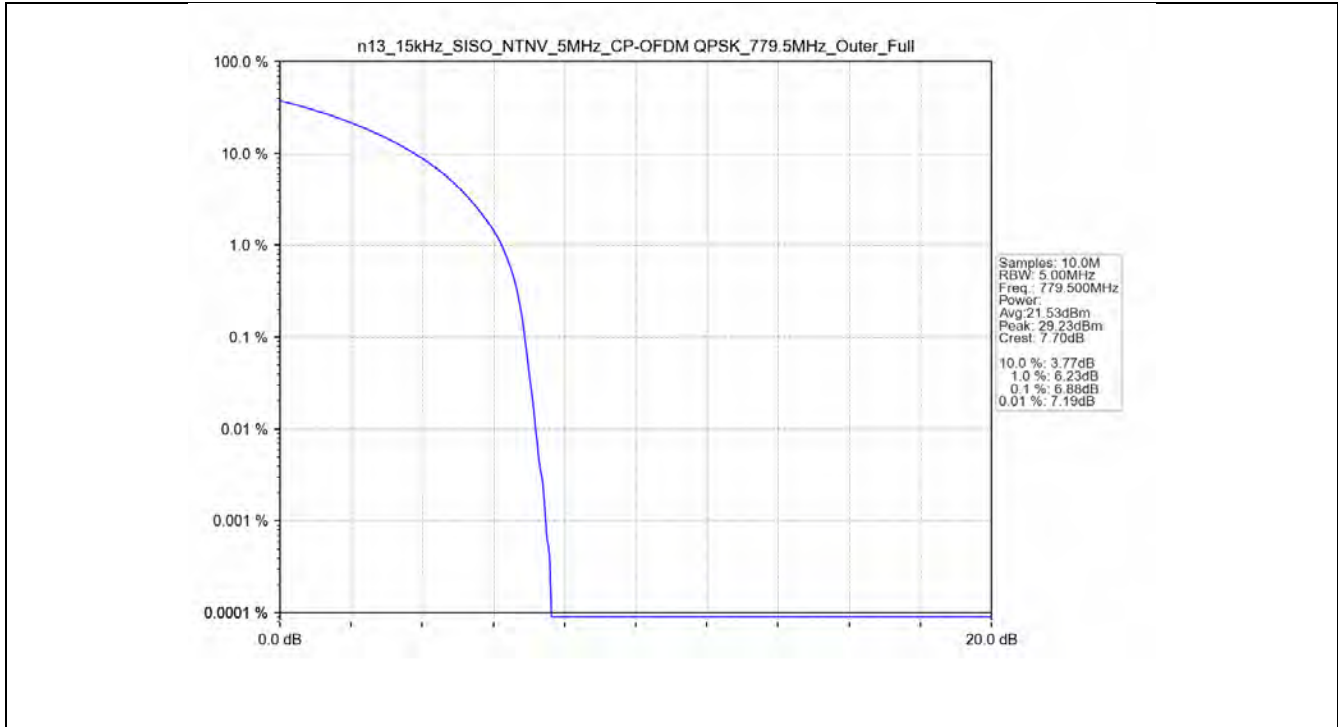


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Report No.: SZCR240100038409

Rev.: 01

Page: 87 of 237



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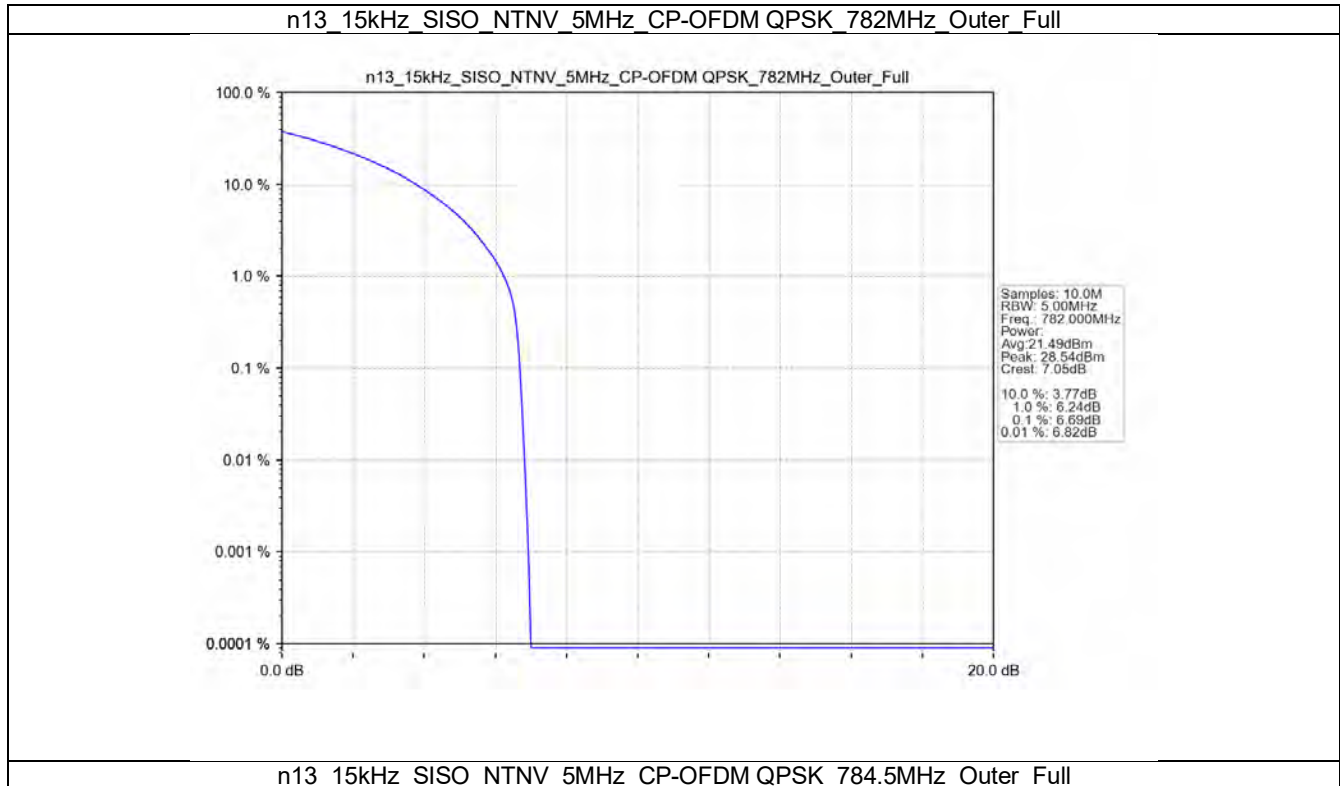


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Report No.: SZCR240100038409

Rev.: 01

Page: 88 of 237



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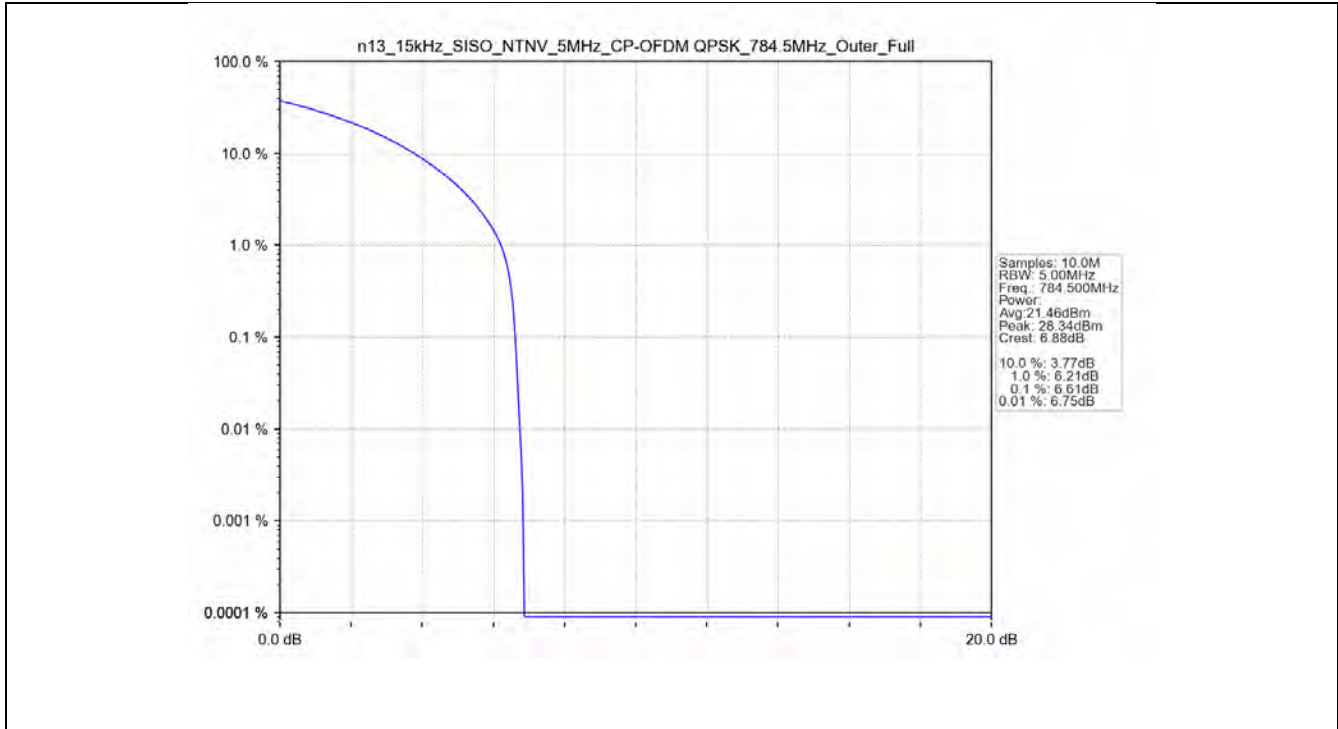


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Report No.: SZCR240100038409

Rev.: 01

Page: 89 of 237



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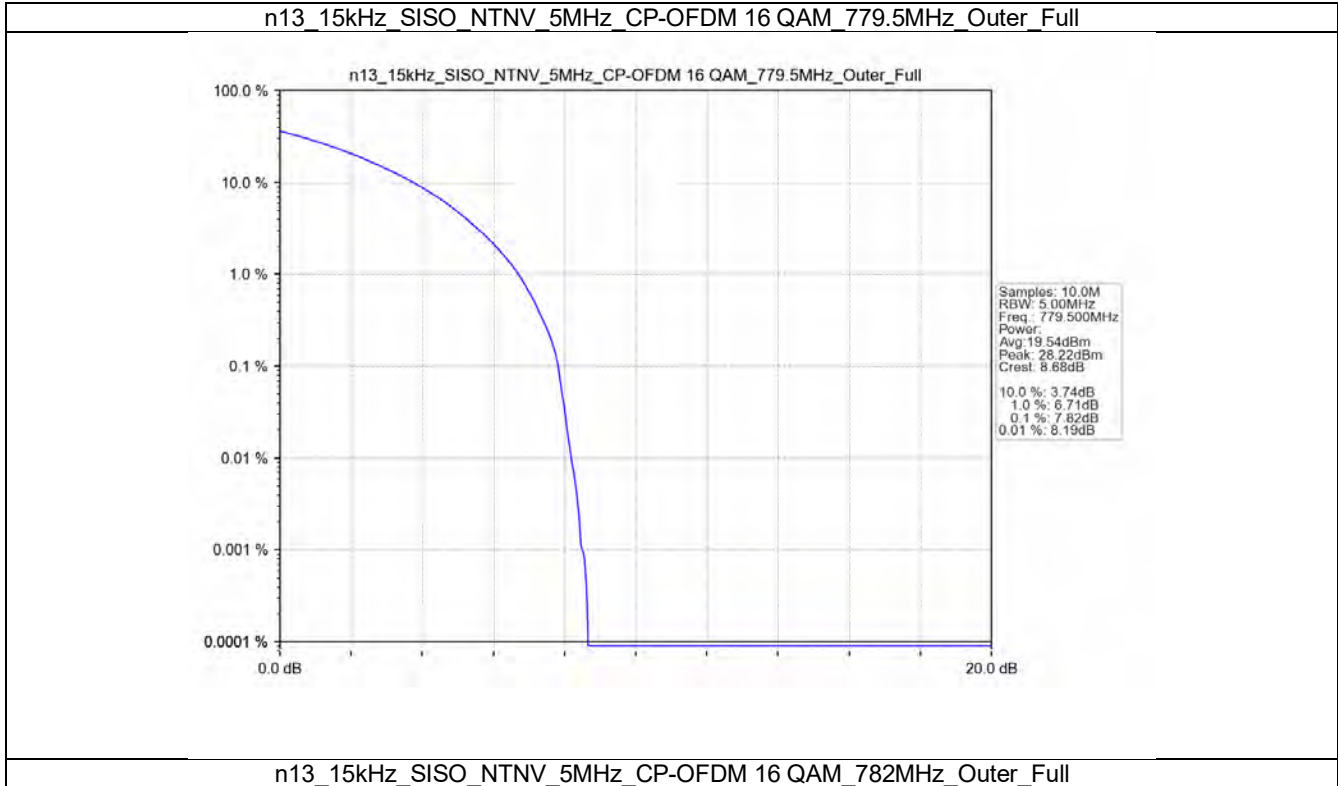


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Rev.: 01

Page: 90 of 237



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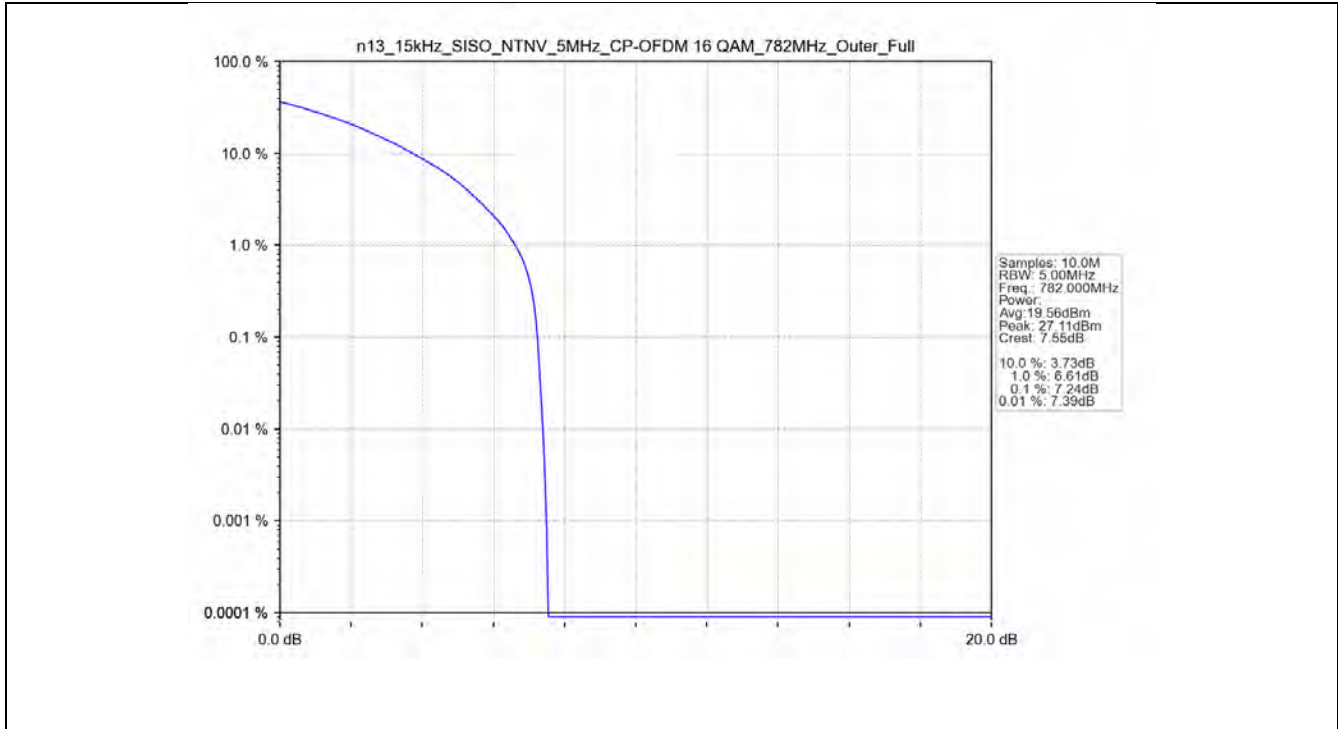


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Rev.: 01

Page: 91 of 237



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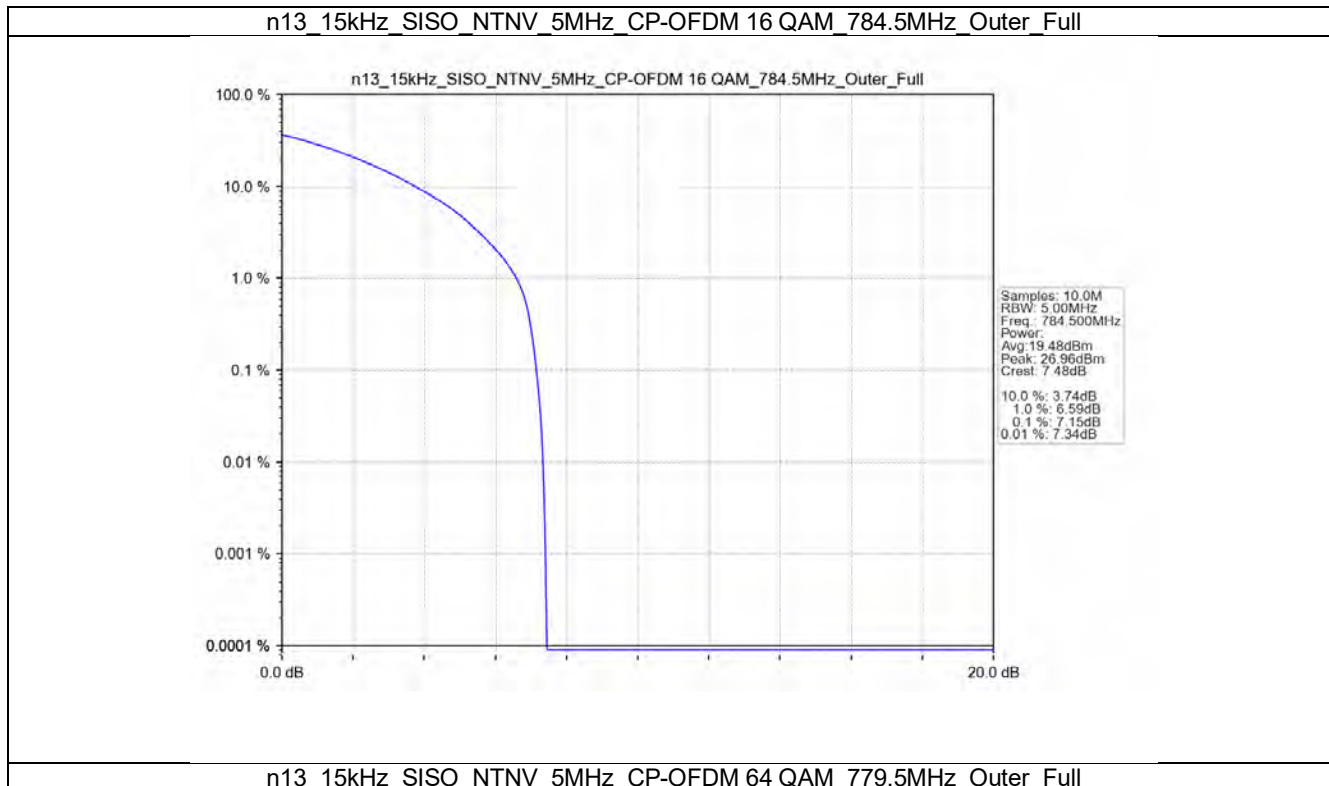
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Rev.: 01
Page: 92 of 237



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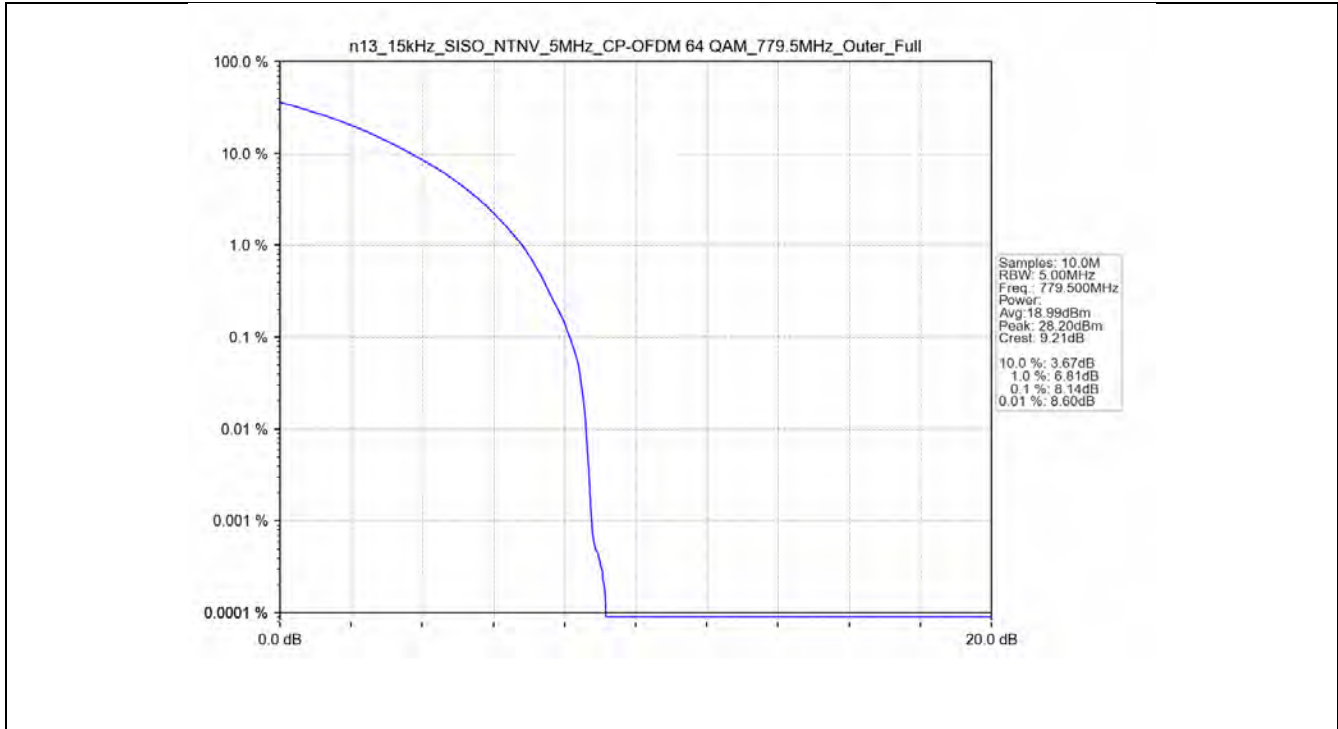


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Rev.: 01

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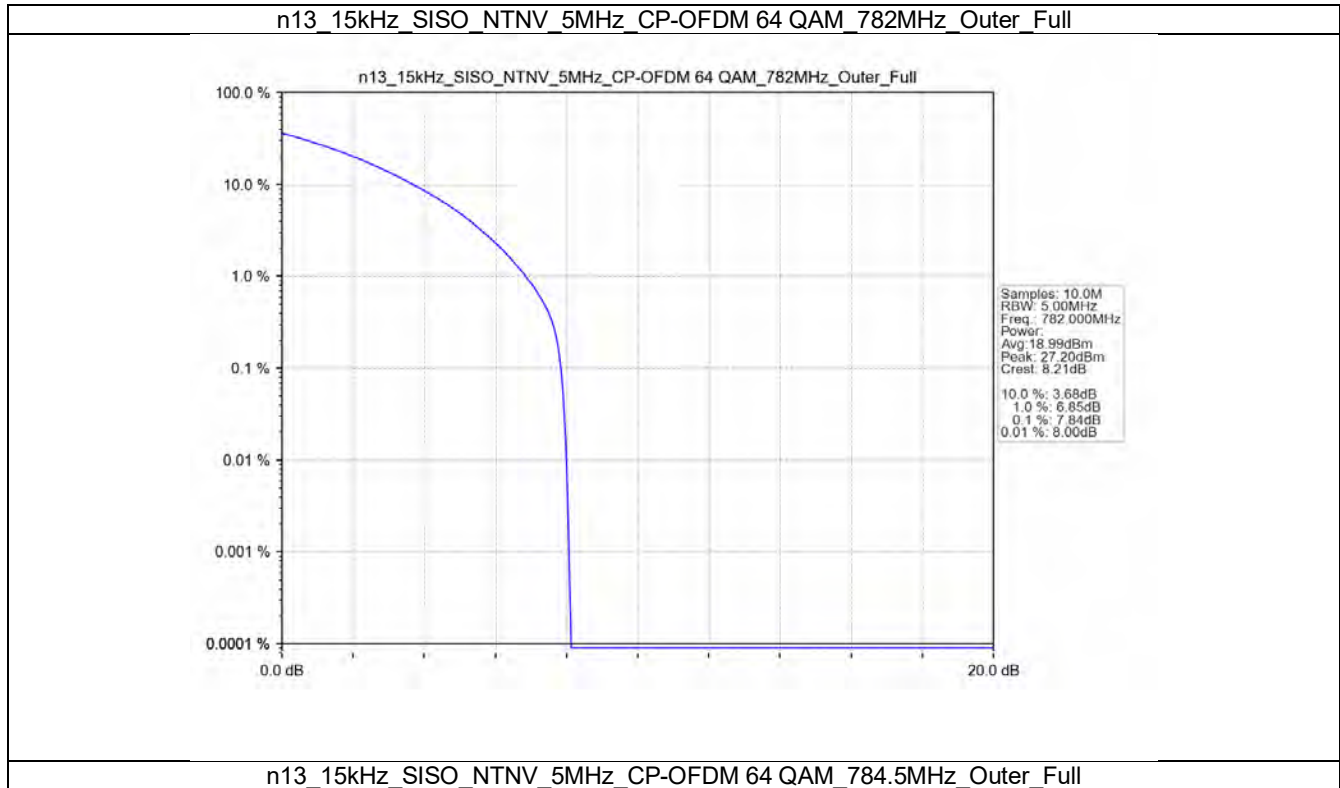


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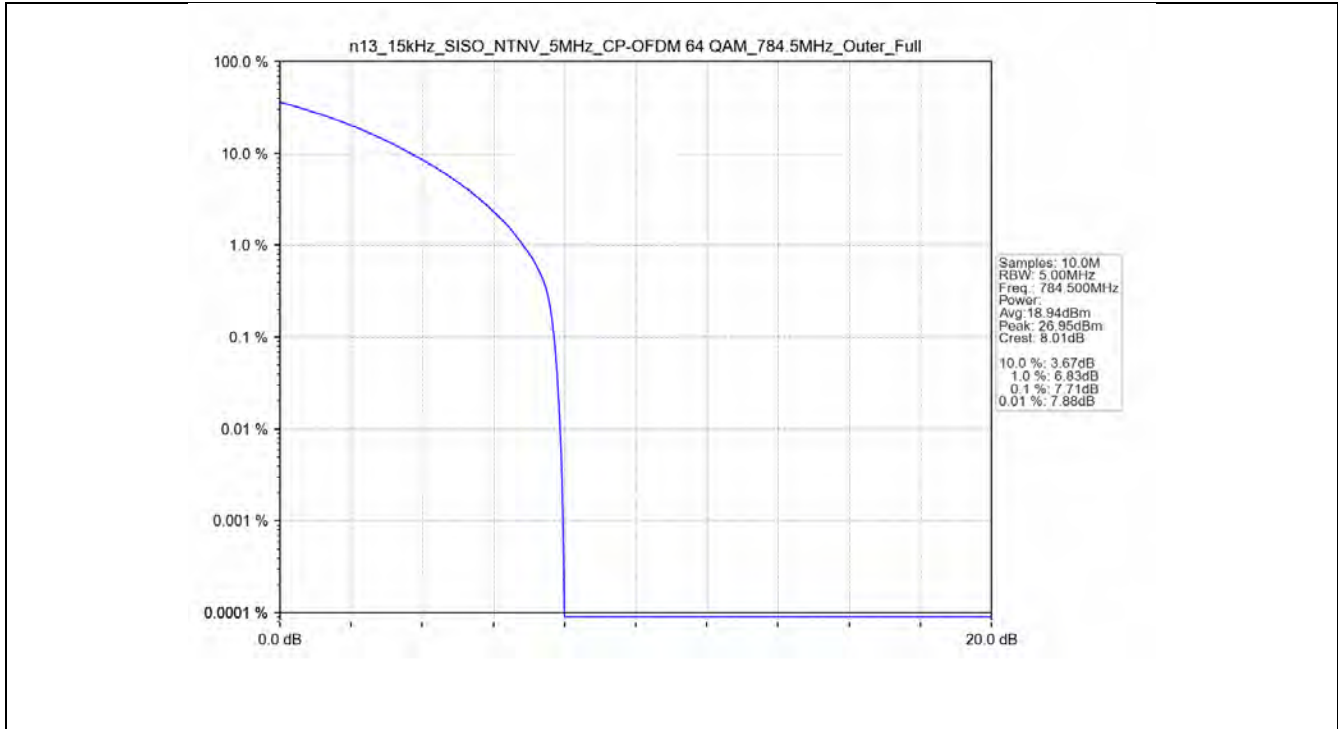


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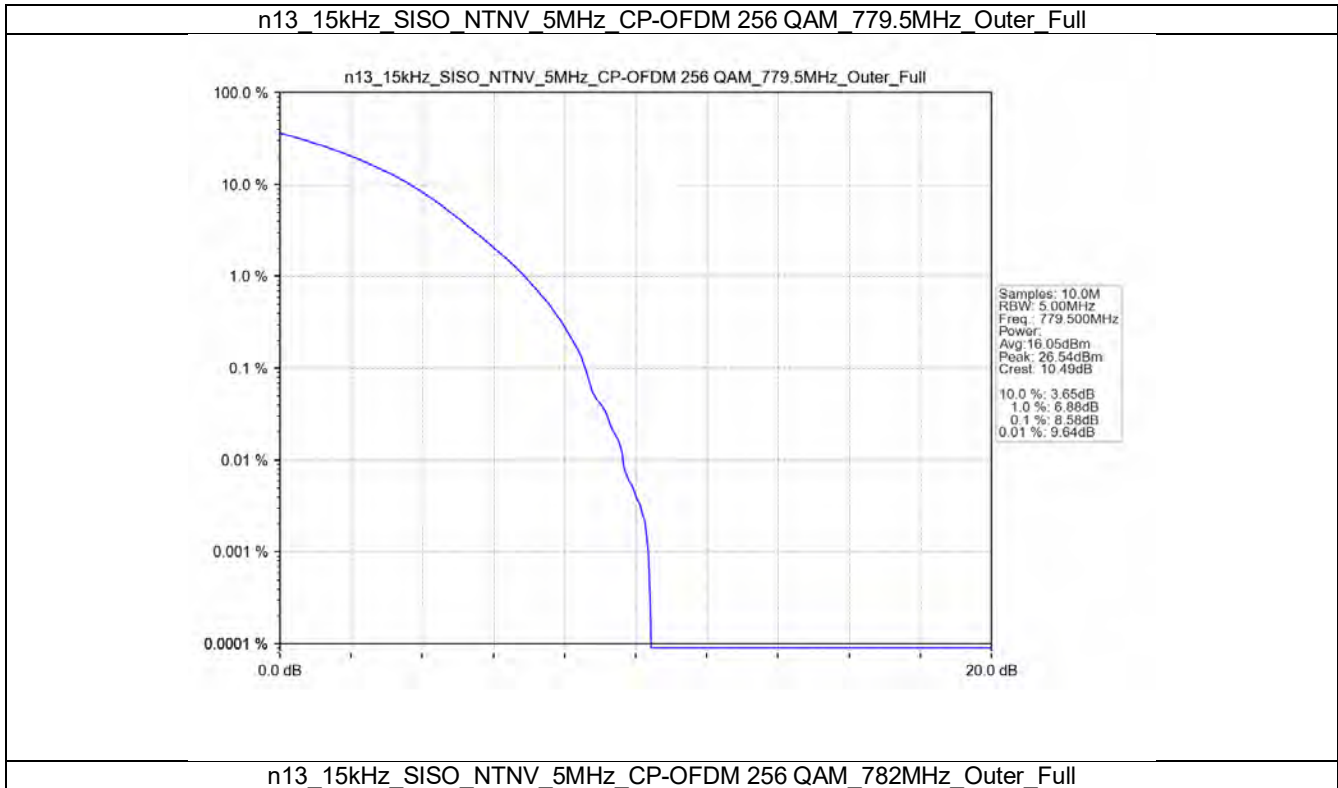


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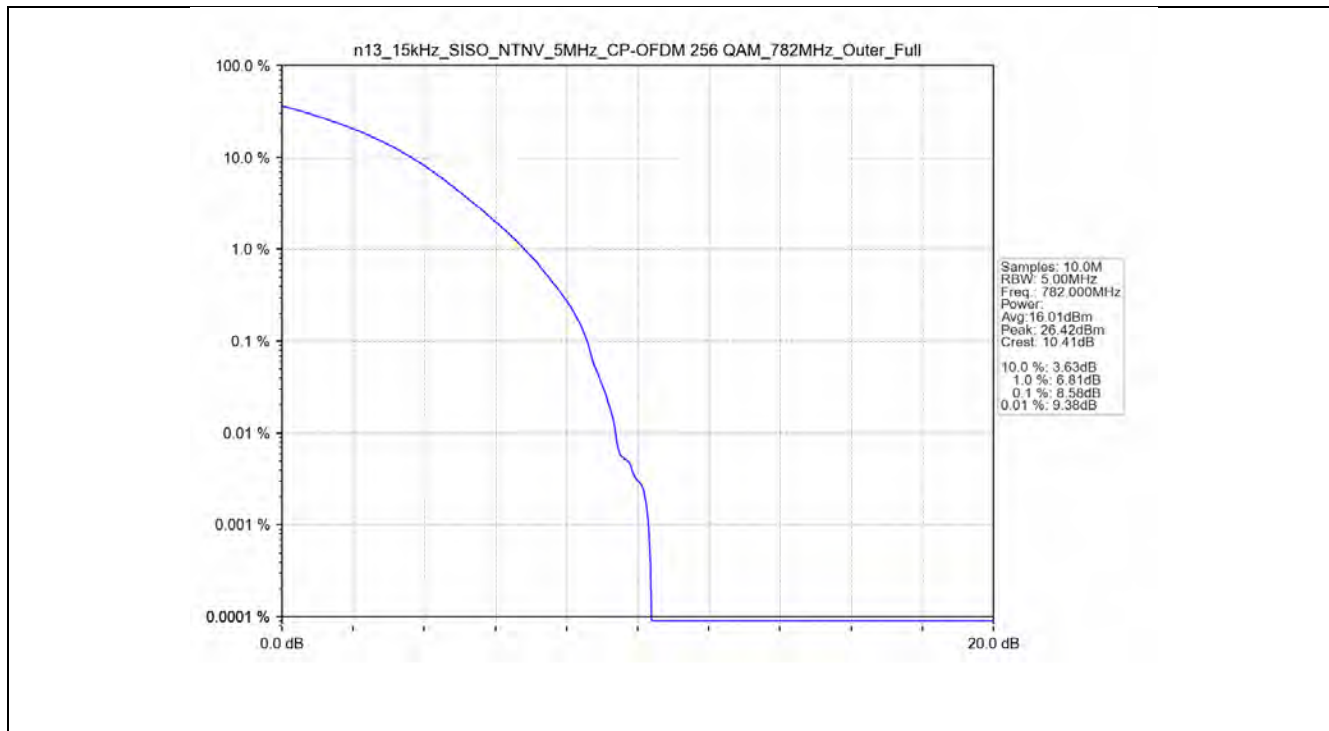
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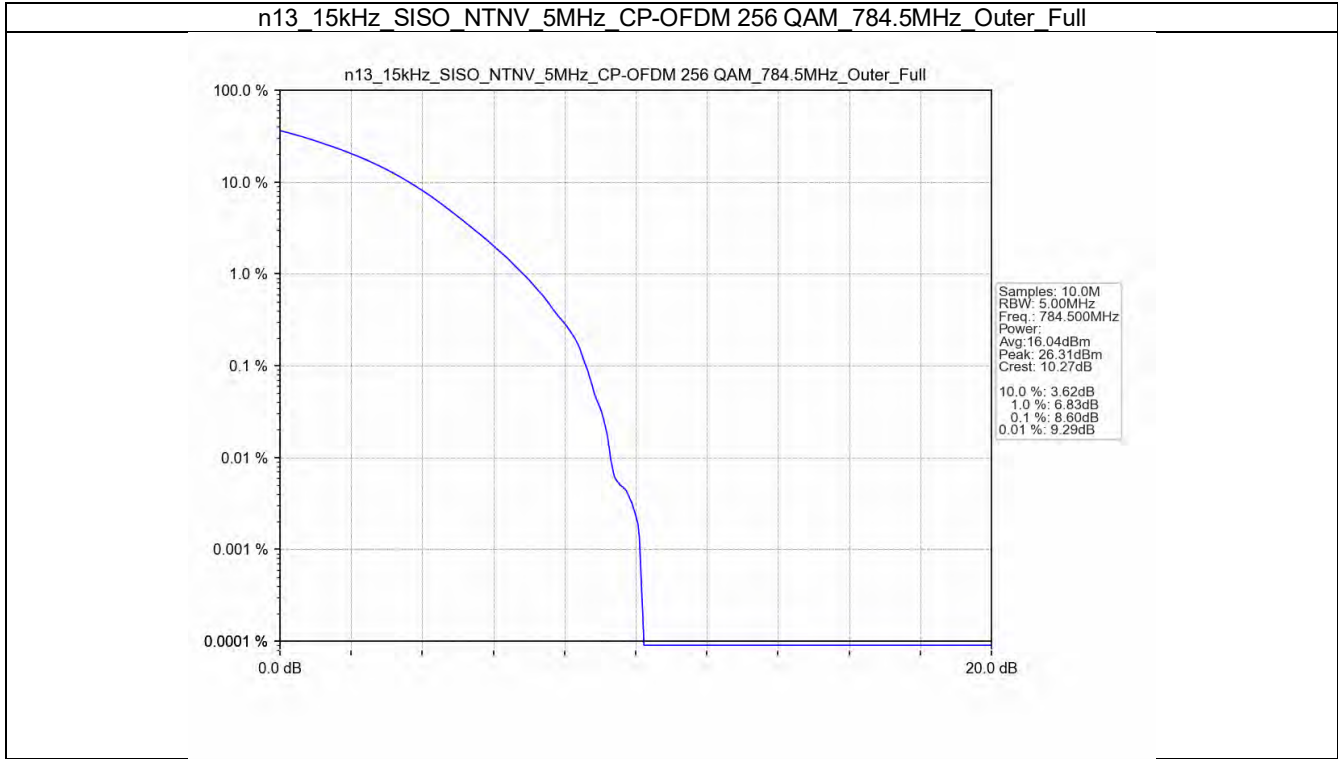


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Report No.: SZCR240100038409

Rev.: 01

Page: 99 of 237

4.2 15k_SISO_10MHz_NTNV

4.2.1 Test Result

5G NR n13 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	782	Outer_Full	4.02	/	/	<=13	Pass
	782	Outer_Full	4.02	/	/	<=13	Pass
	782	Outer_Full	4.00	/	/	<=13	Pass
DFT-s-OFDM QPSK	782	Outer_Full	5.29	/	/	<=13	Pass
	782	Outer_Full	5.29	/	/	<=13	Pass
	782	Outer_Full	5.28	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	782	Outer_Full	6.17	/	/	<=13	Pass
	782	Outer_Full	6.19	/	/	<=13	Pass
	782	Outer_Full	6.13	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	782	Outer_Full	6.52	/	/	<=13	Pass
	782	Outer_Full	6.52	/	/	<=13	Pass
	782	Outer_Full	6.48	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	782	Outer_Full	6.74	/	/	<=13	Pass
	782	Outer_Full	6.72	/	/	<=13	Pass
	782	Outer_Full	6.72	/	/	<=13	Pass
CP-OFDM QPSK	782	Outer_Full	7.37	/	/	<=13	Pass
	782	Outer_Full	7.37	/	/	<=13	Pass
	782	Outer_Full	7.37	/	/	<=13	Pass
CP-OFDM 16 QAM	782	Outer_Full	7.21	/	/	<=13	Pass
	782	Outer_Full	7.96	/	/	<=13	Pass
	782	Outer_Full	7.21	/	/	<=13	Pass
CP-OFDM 64 QAM	782	Outer_Full	7.63	/	/	<=13	Pass
	782	Outer_Full	7.63	/	/	<=13	Pass
	782	Outer_Full	7.63	/	/	<=13	Pass
CP-OFDM 256 QAM	782	Outer_Full	8.79	/	/	<=13	Pass
	782	Outer_Full	8.79	/	/	<=13	Pass
	782	Outer_Full	8.80	/	/	<=13	Pass



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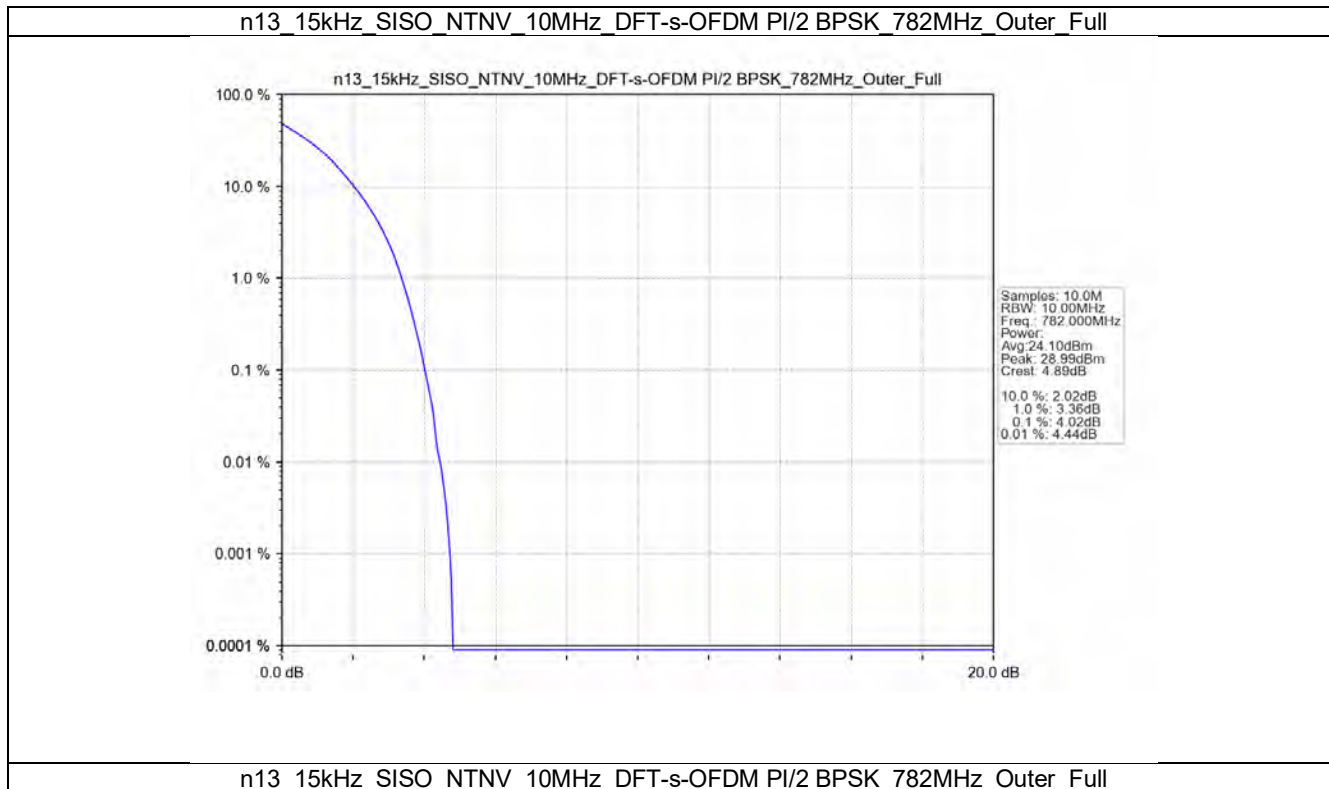
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Report No.: SZCR240100038409
Rev.: 01
Page: 100 of 237

4.2.2 Test Graph



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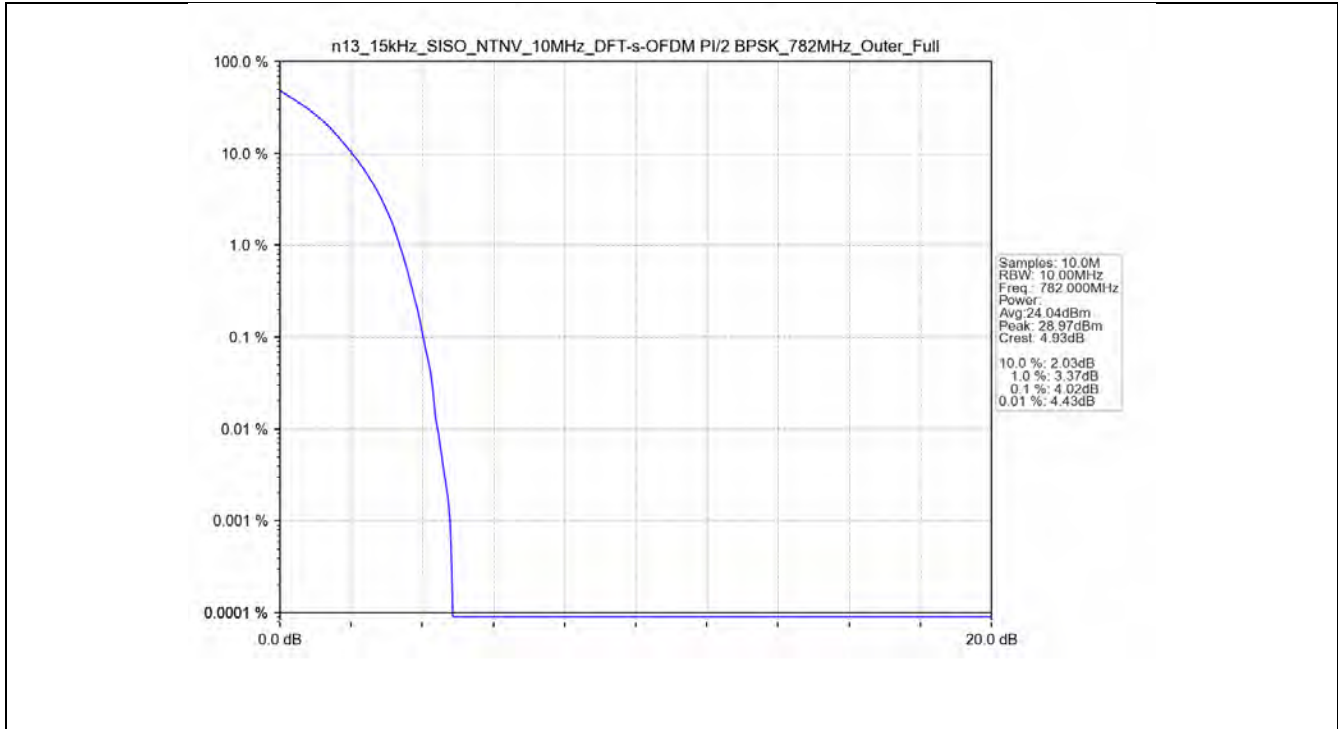


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Report No.: SZCR240100038409

Rev.: 01

Page: 101 of 237



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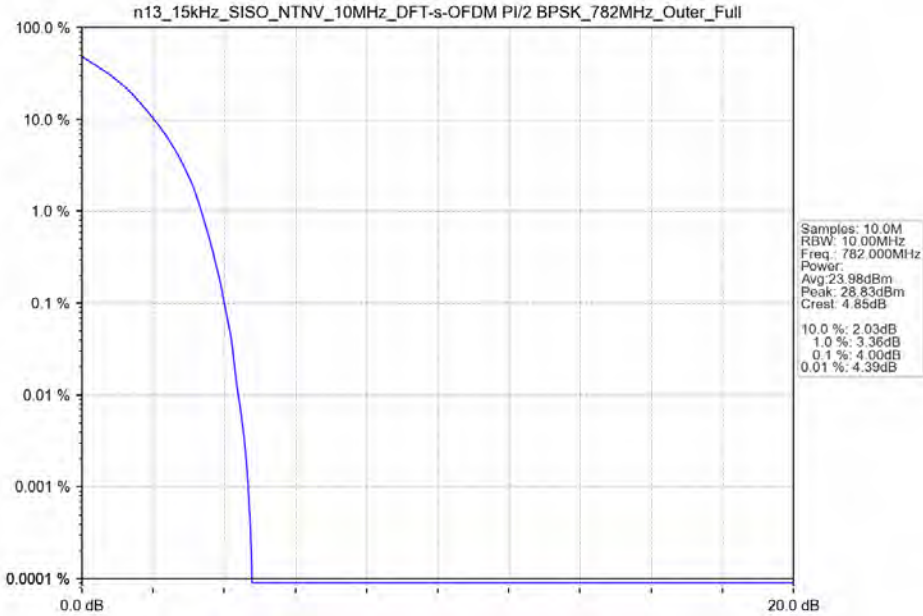
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Report No.: SZCR240100038409

Rev.: 01

Page: 102 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Outer_Full



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_782MHz_Outer_Full



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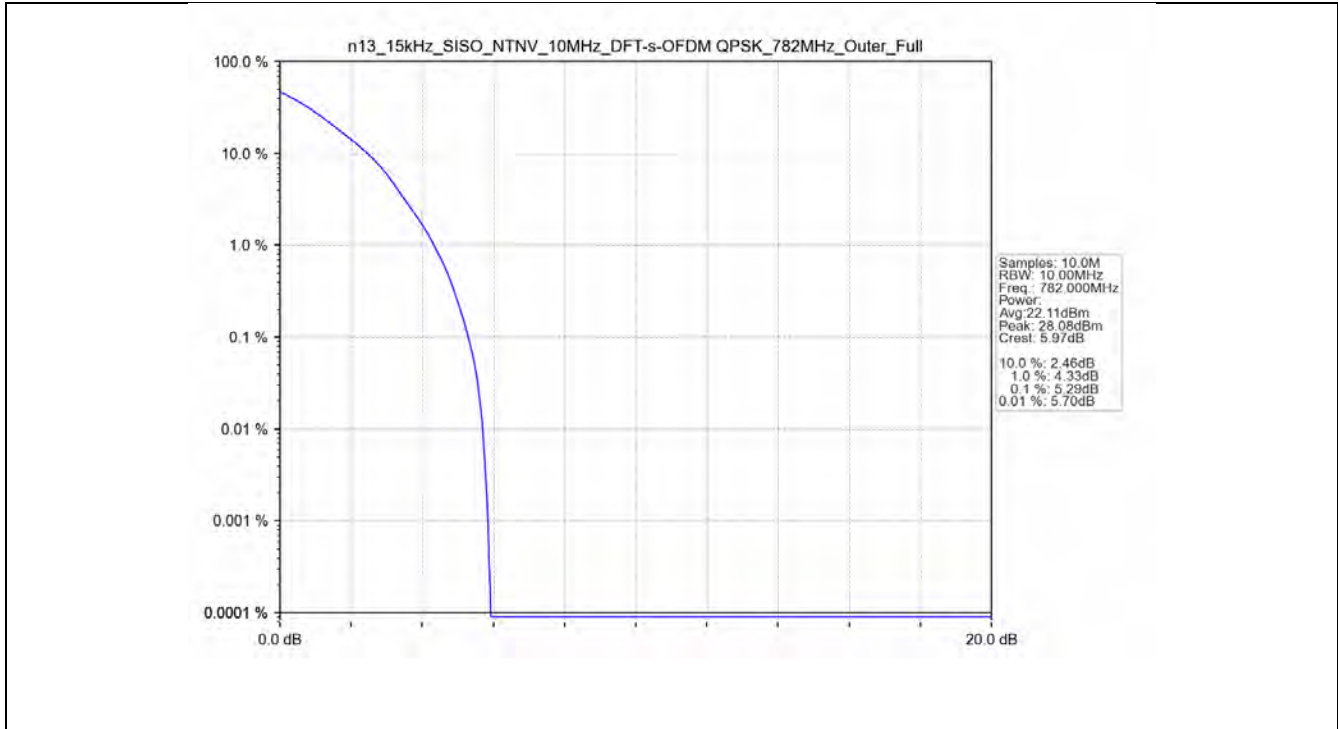


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Report No.: SZCR240100038409

Rev.: 01

Page: 103 of 237



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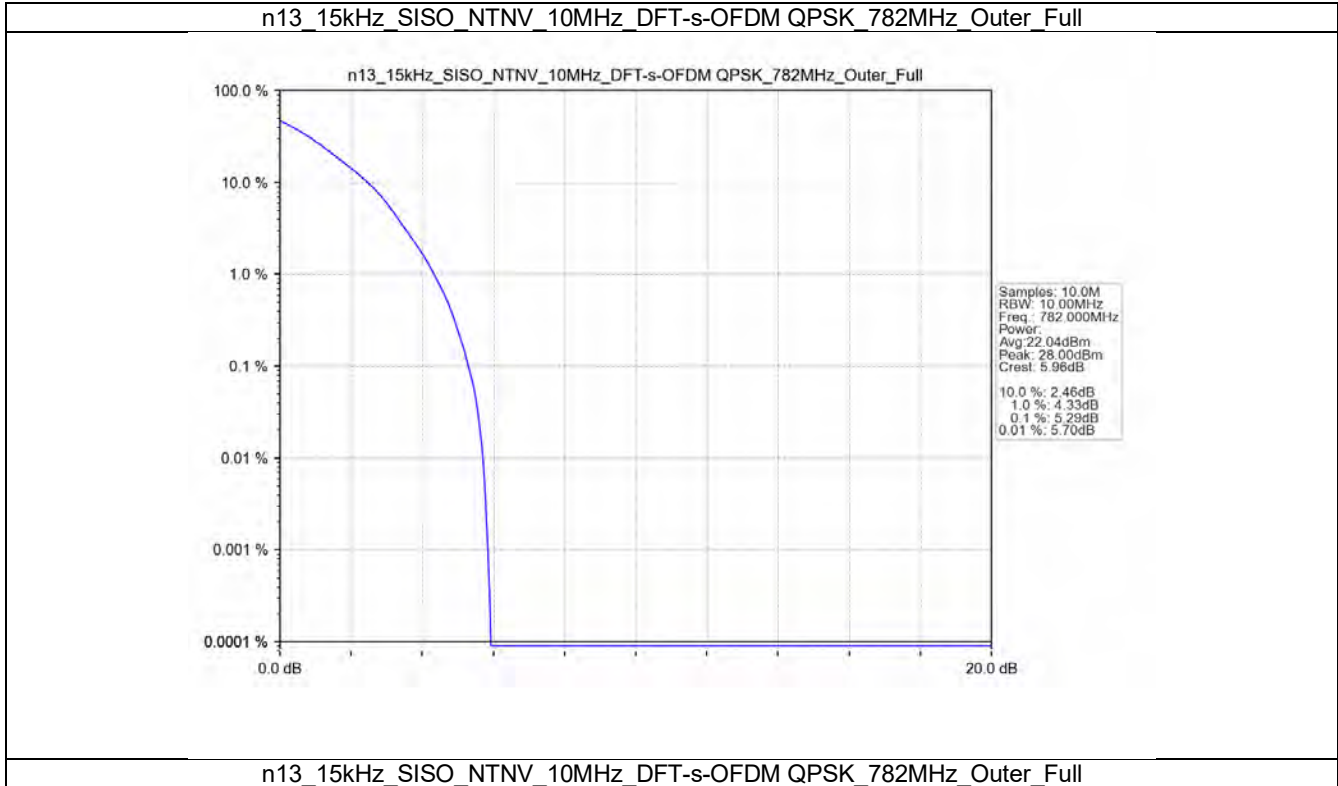


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Report No.: SZCR240100038409

Rev.: 01

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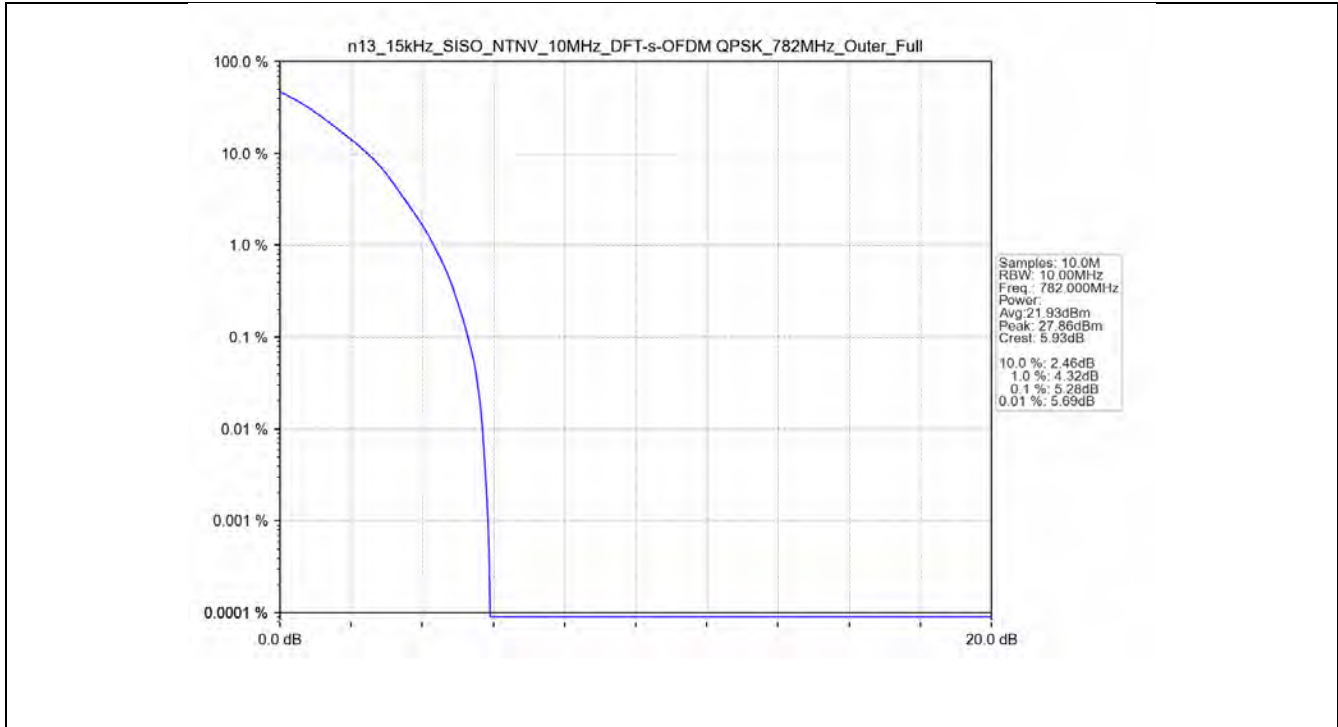


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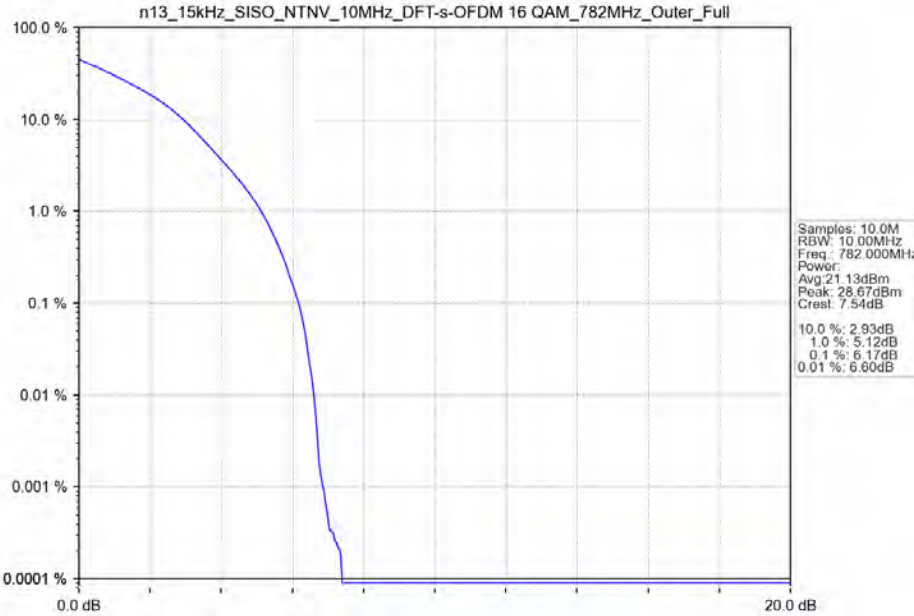
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Report No.: SZCR240100038409

Rev.: 01

Page: 106 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_782MHz_Outer_Full



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_782MHz_Outer_Full



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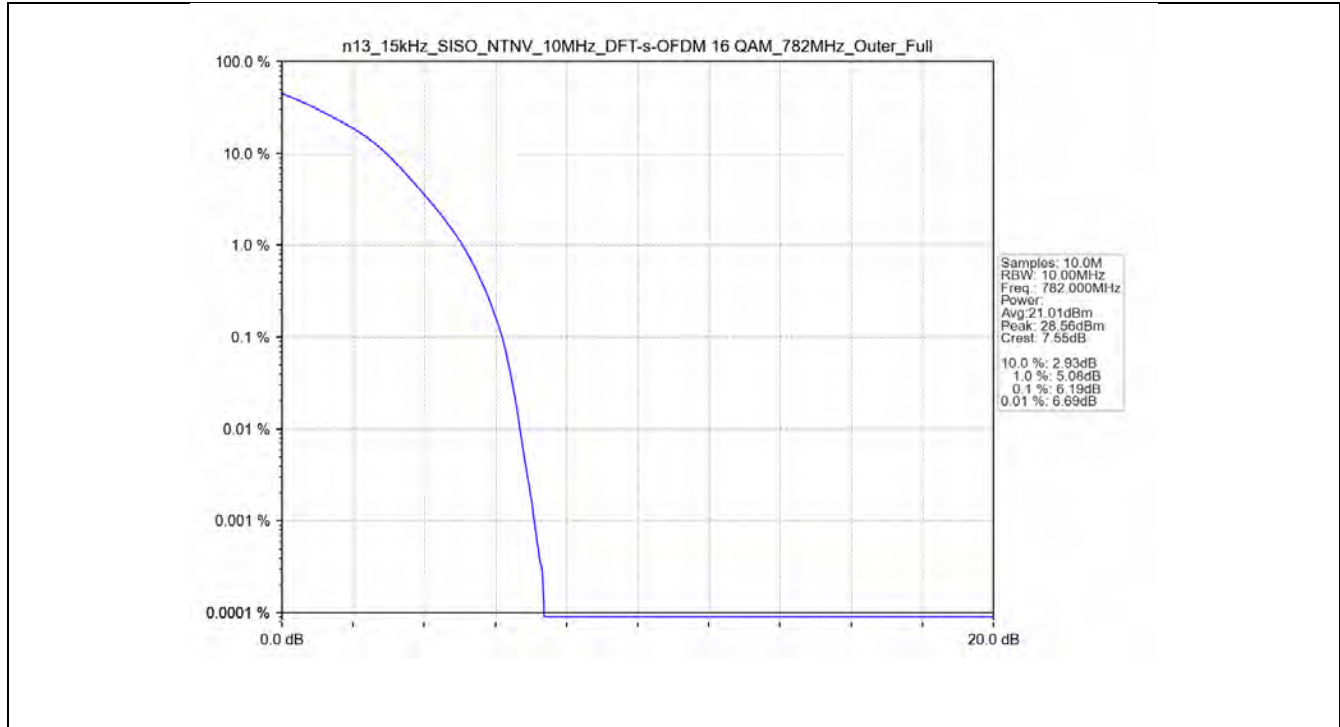


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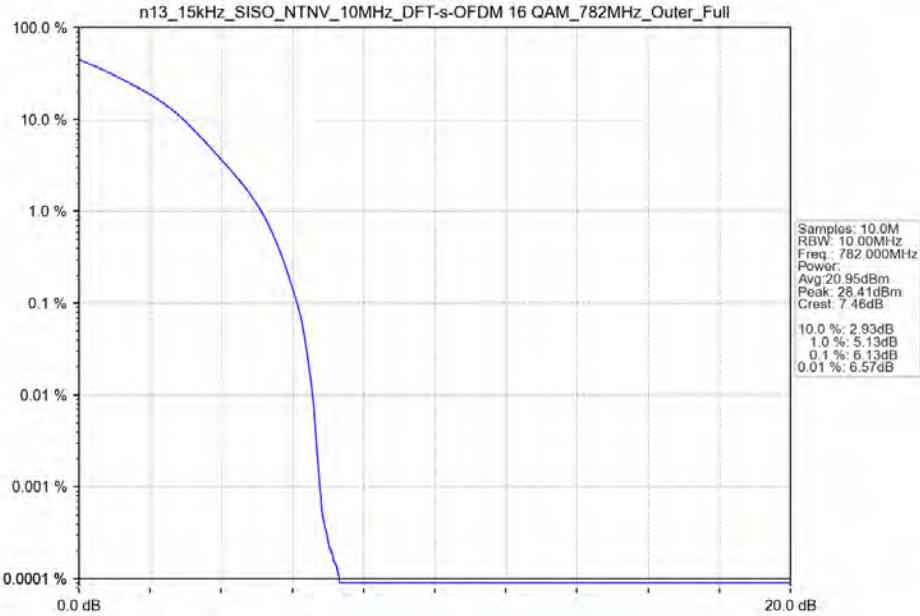
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Report No.: SZCR240100038409

Rev.: 01

Page: 108 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_782MHz_Outer_Full



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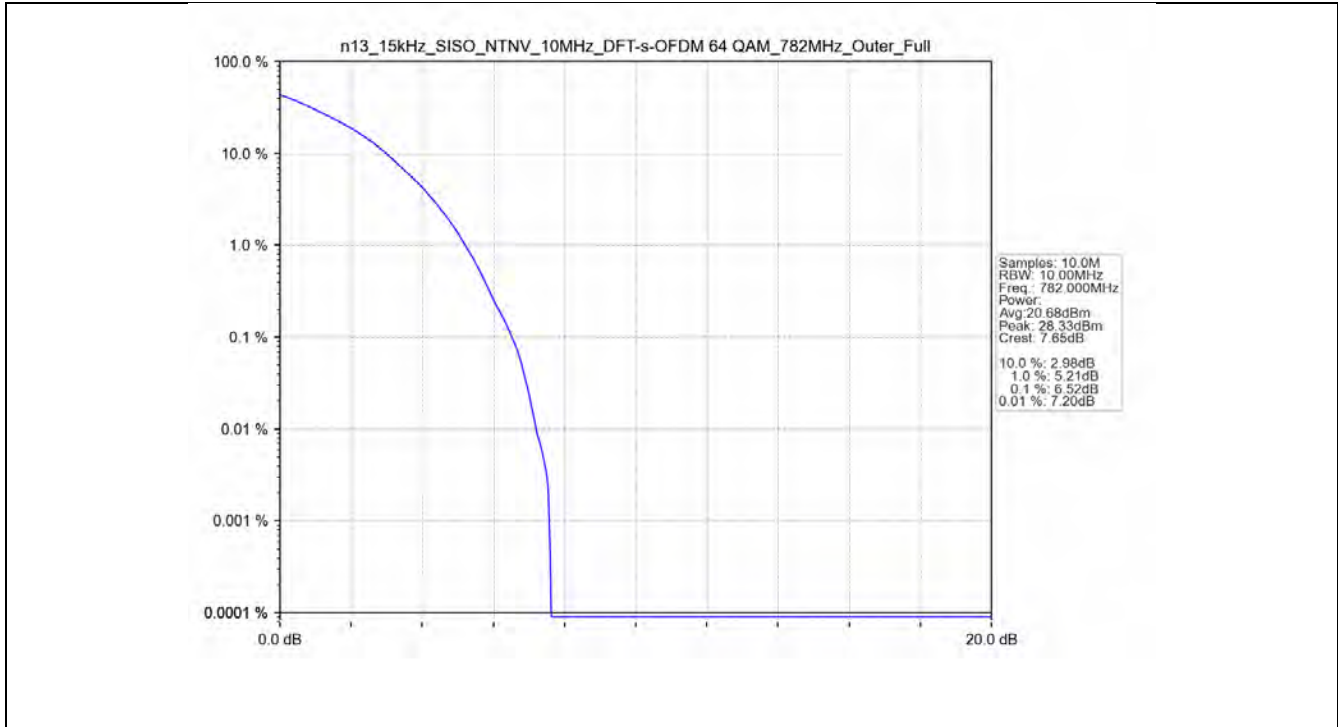


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Rev.: 01

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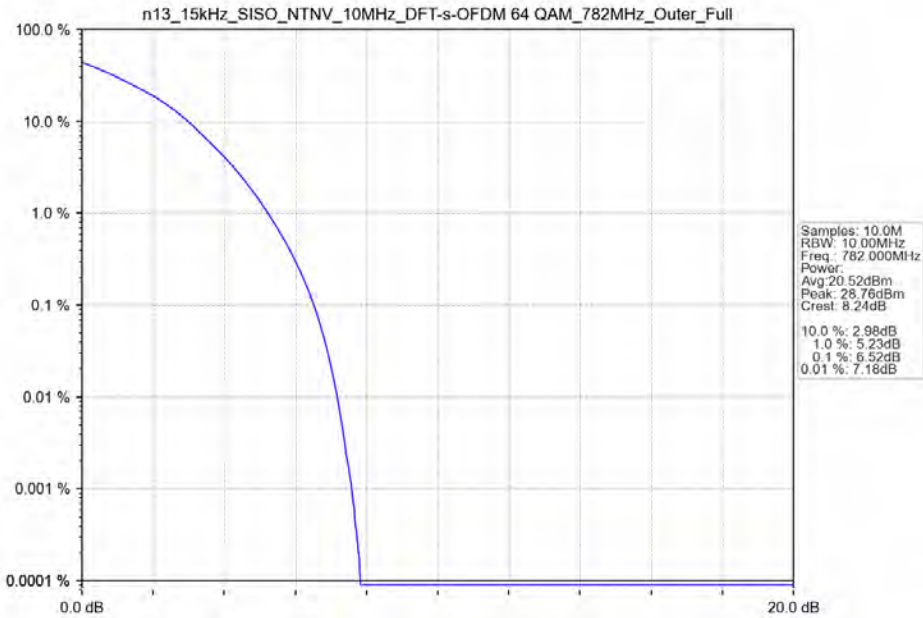
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Report No.: SZCR240100038409

Rev.: 01

Page: 110 of 237

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n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_782MHz_Outer_Full



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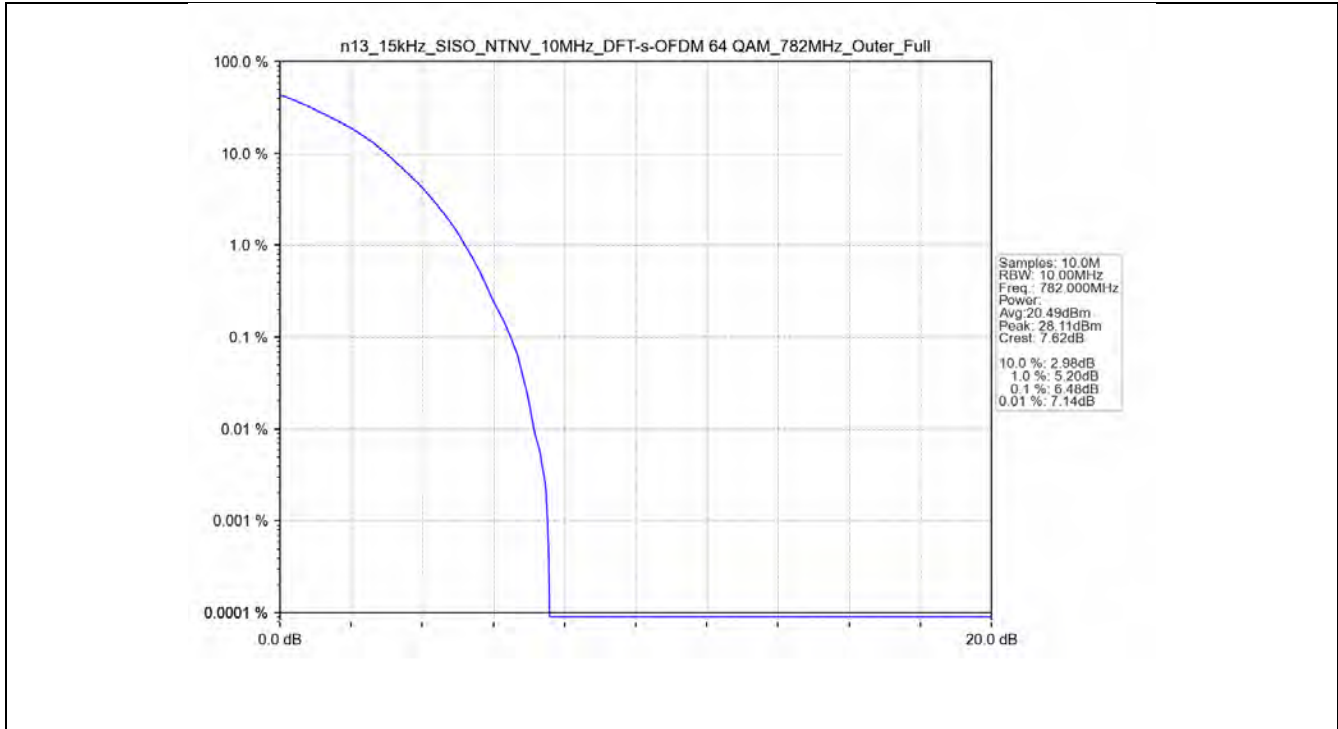


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Report No.: SZCR240100038409

Rev.: 01

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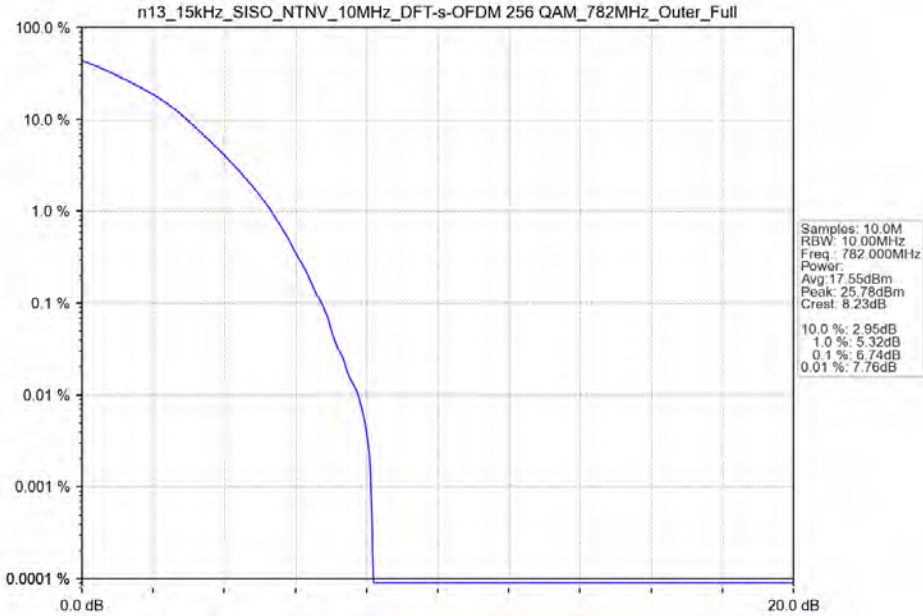
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Report No.: SZCR240100038409

Rev.: 01

Page: 112 of 237

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n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_782MHz_Outer_Full



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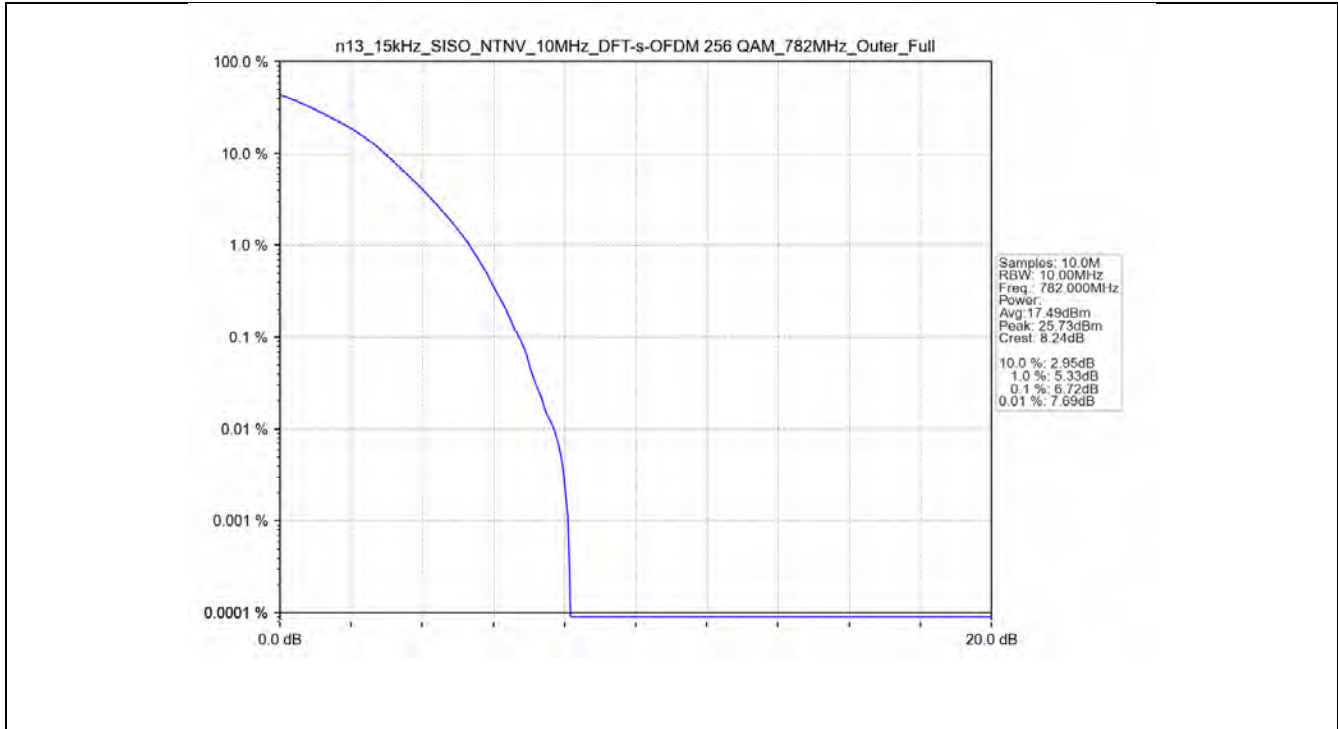


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Report No.: SZCR240100038409

Rev.: 01

Page: 113 of 237



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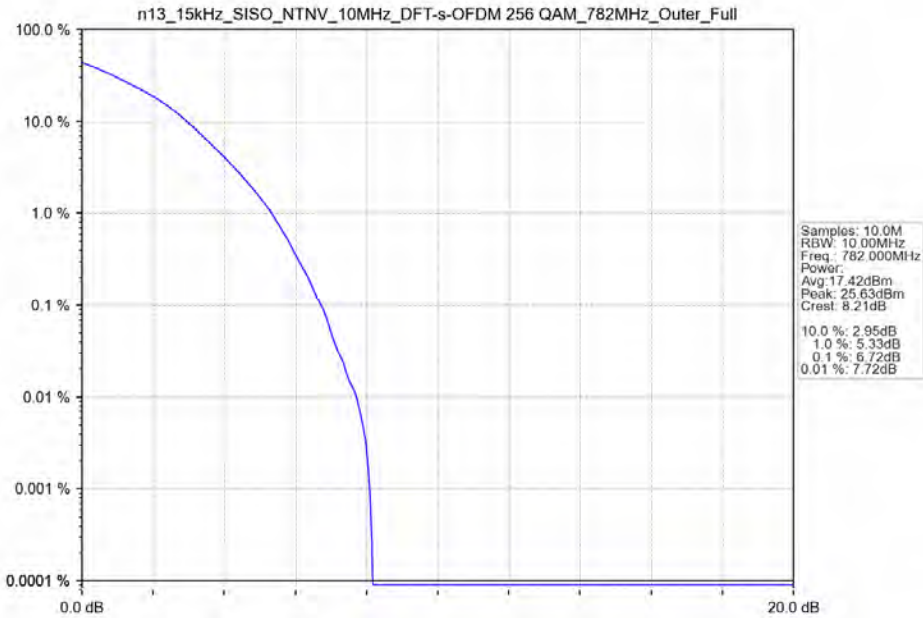
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Report No.: SZCR240100038409

Rev.: 01

Page: 114 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_782MHz_Outer_Full



n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Outer_Full



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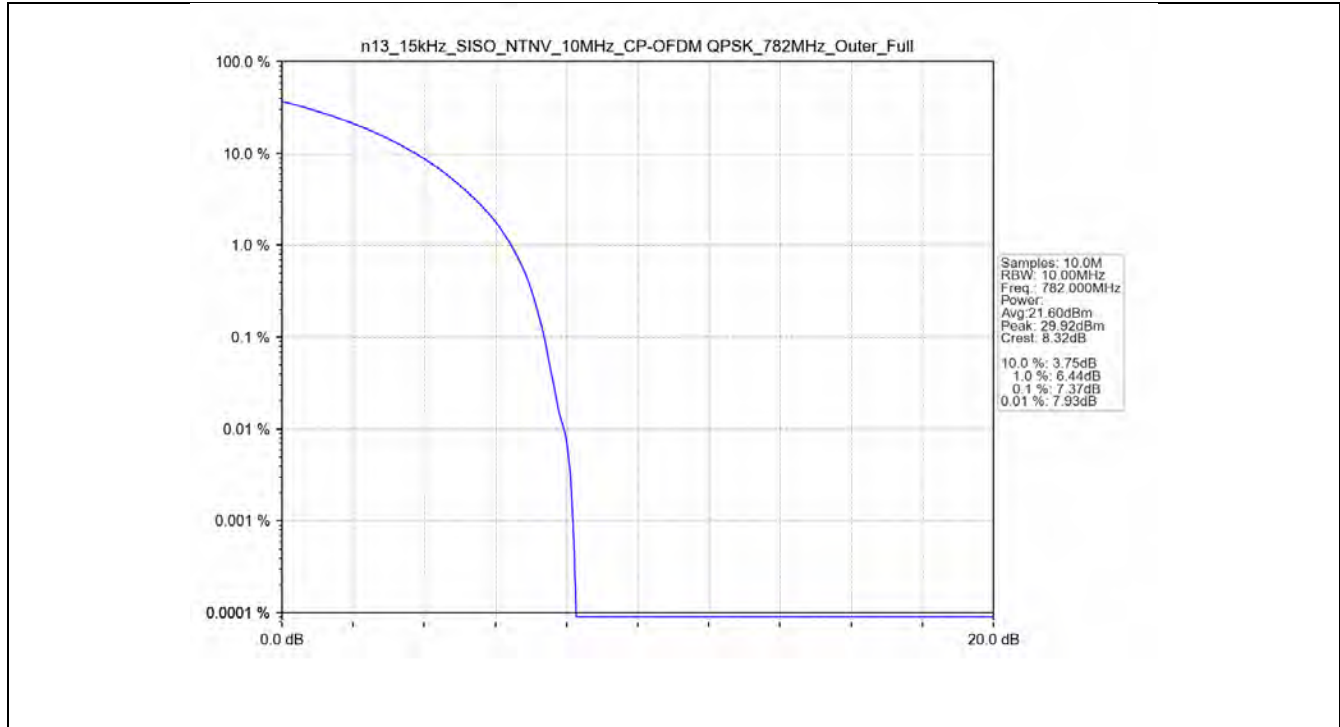


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Report No.: SZCR240100038409

Rev.: 01

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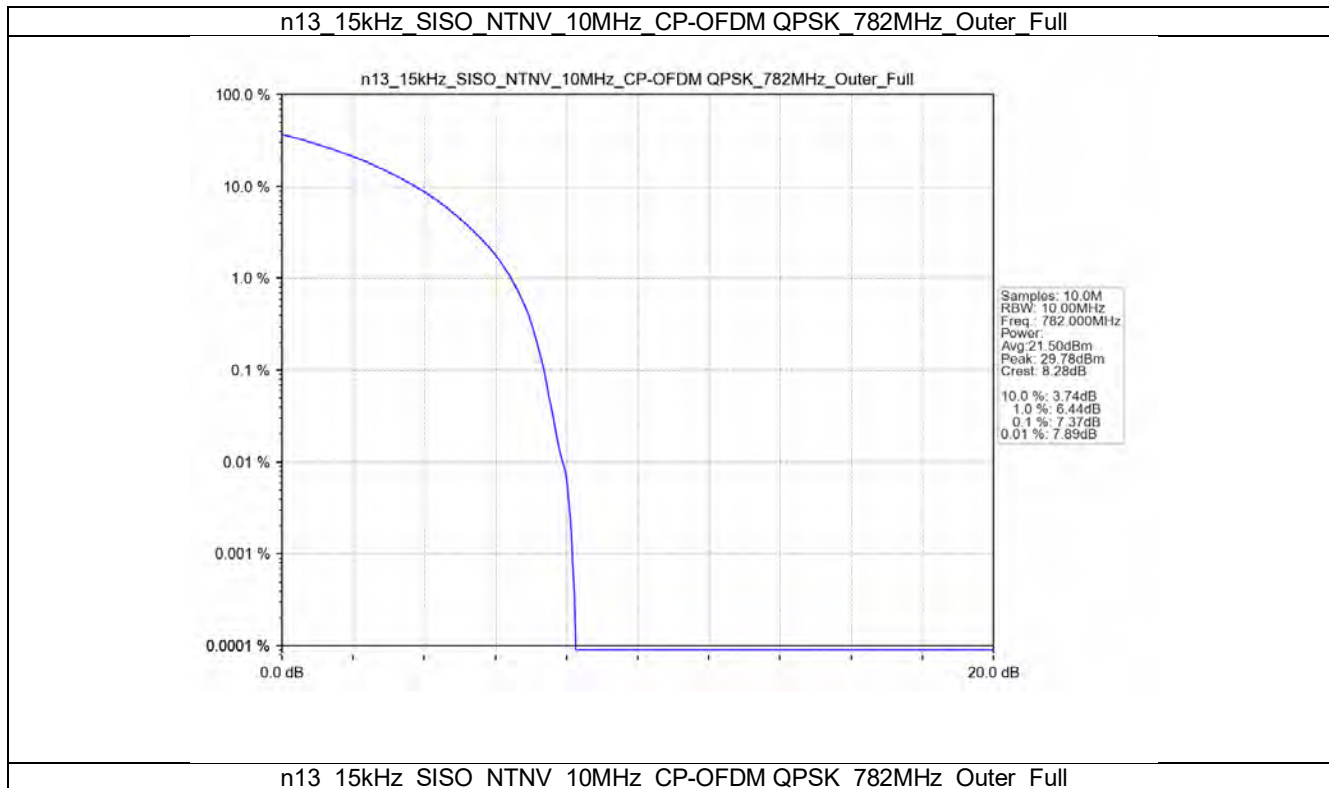
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Report No.: SZCR240100038409
Rev.: 01
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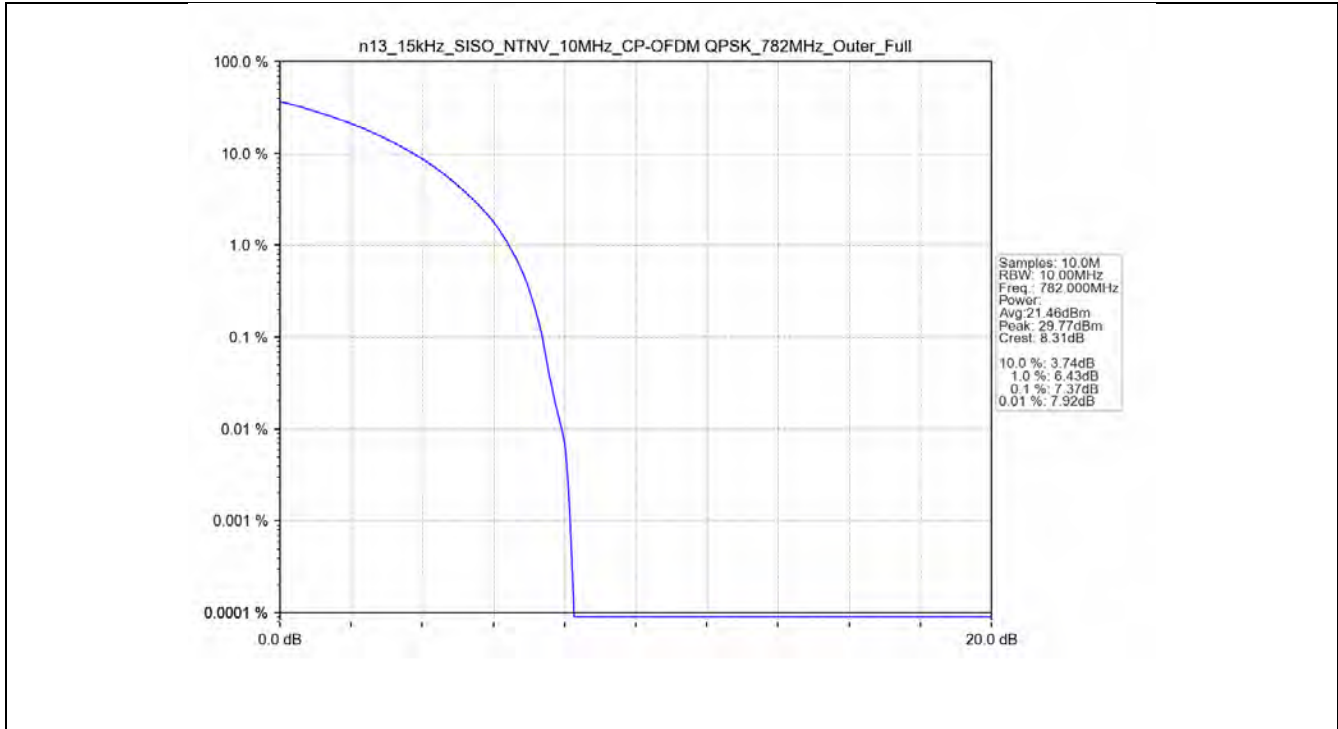


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Report No.: SZCR240100038409

Rev.: 01

Page: 117 of 237



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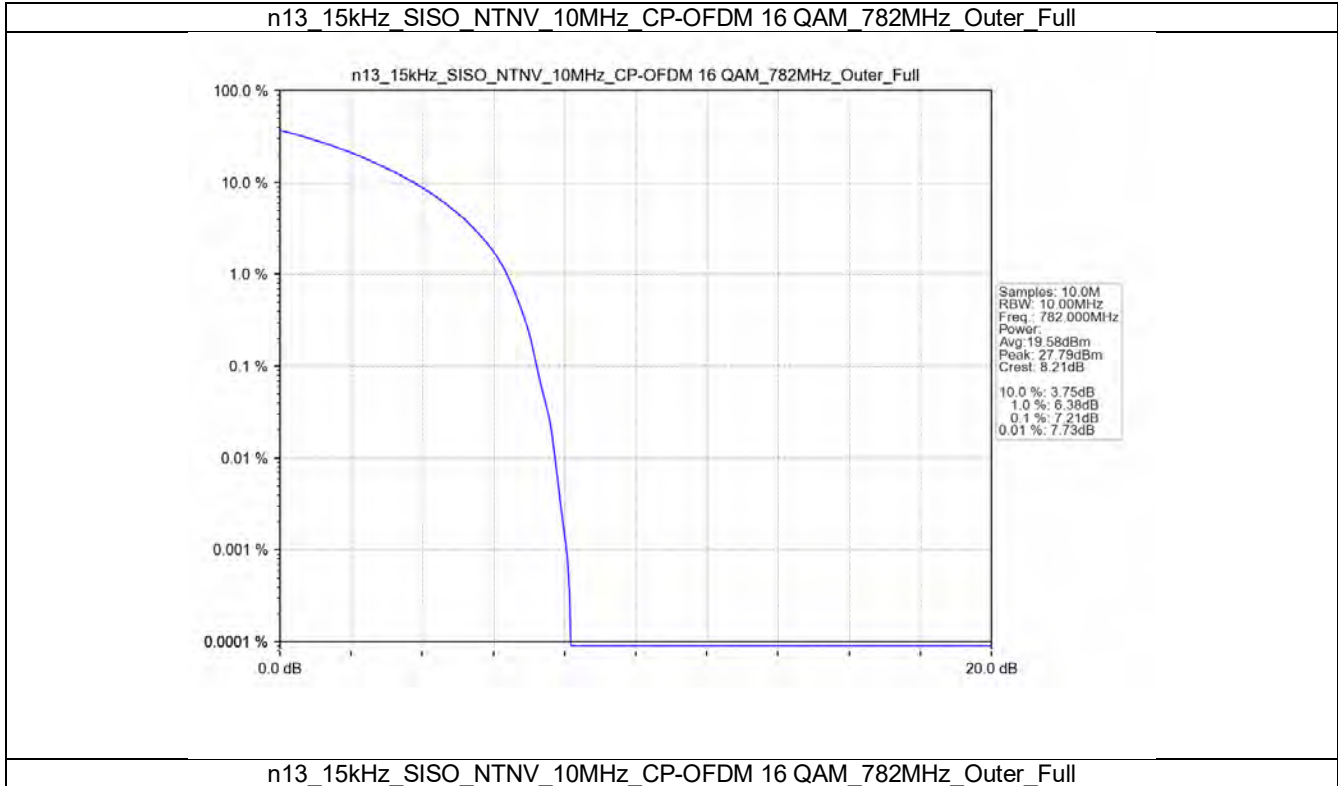


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Report No.: SZCR240100038409

Rev.: 01

Page: 118 of 237



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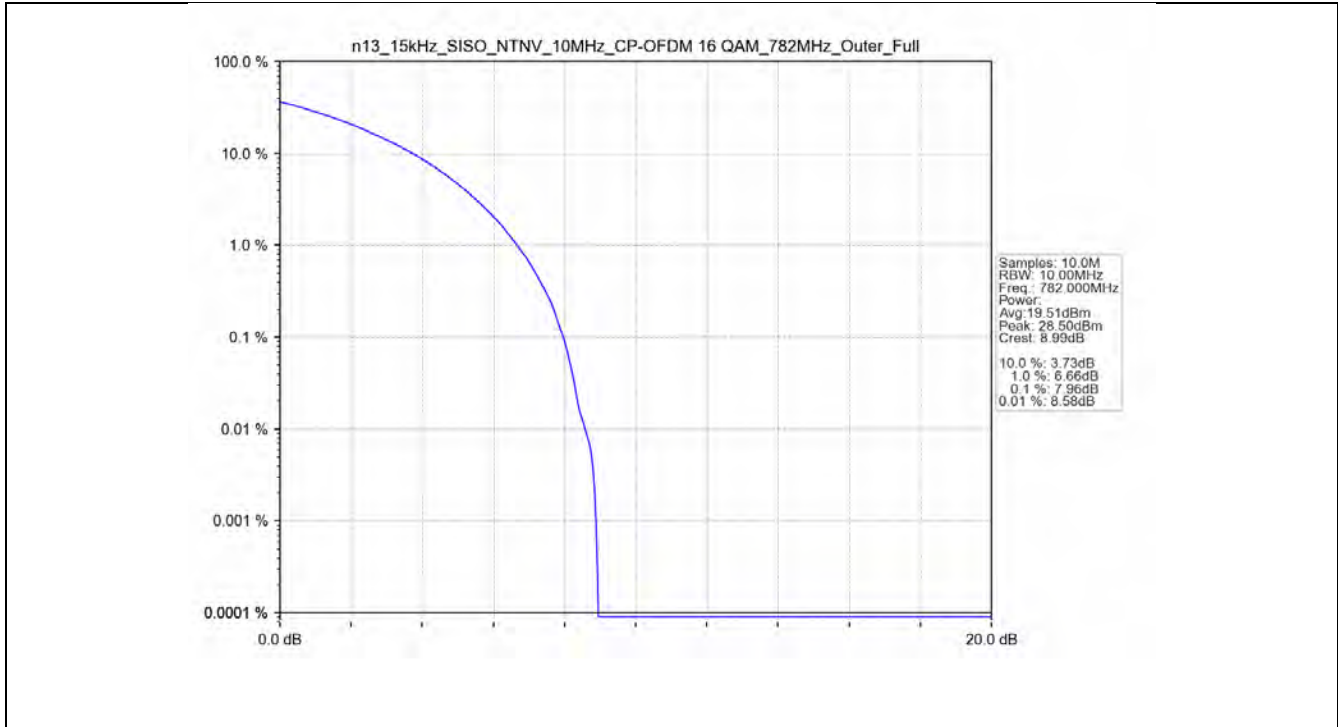


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Rev.: 01

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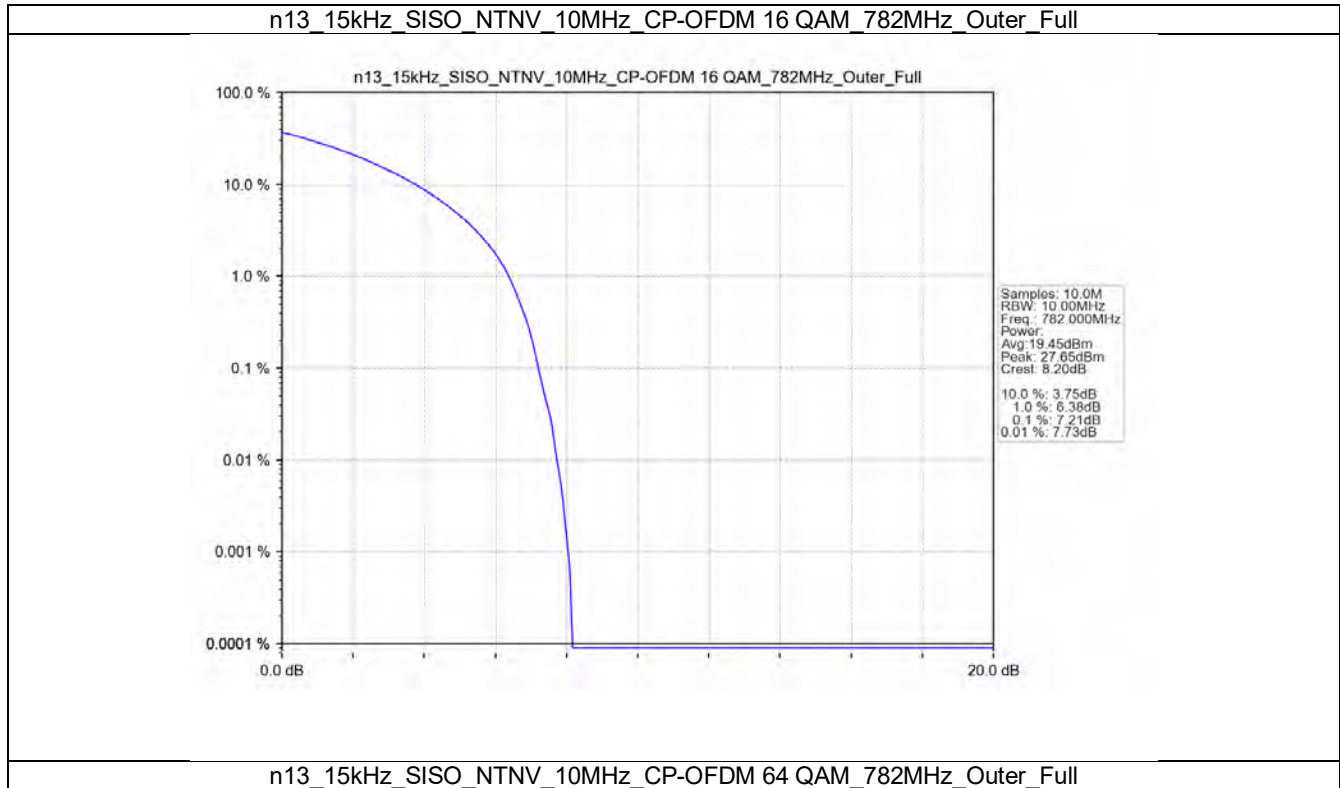


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Rev.: 01

Page: 120 of 237



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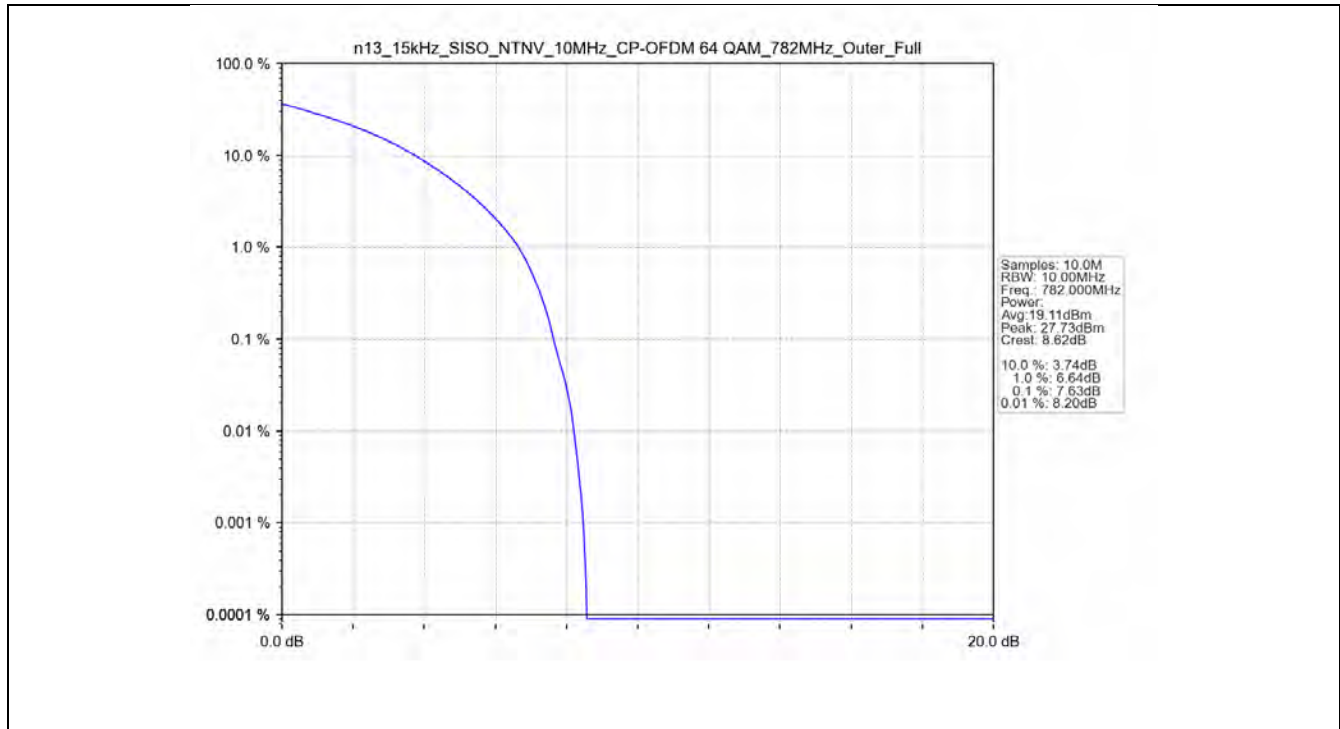


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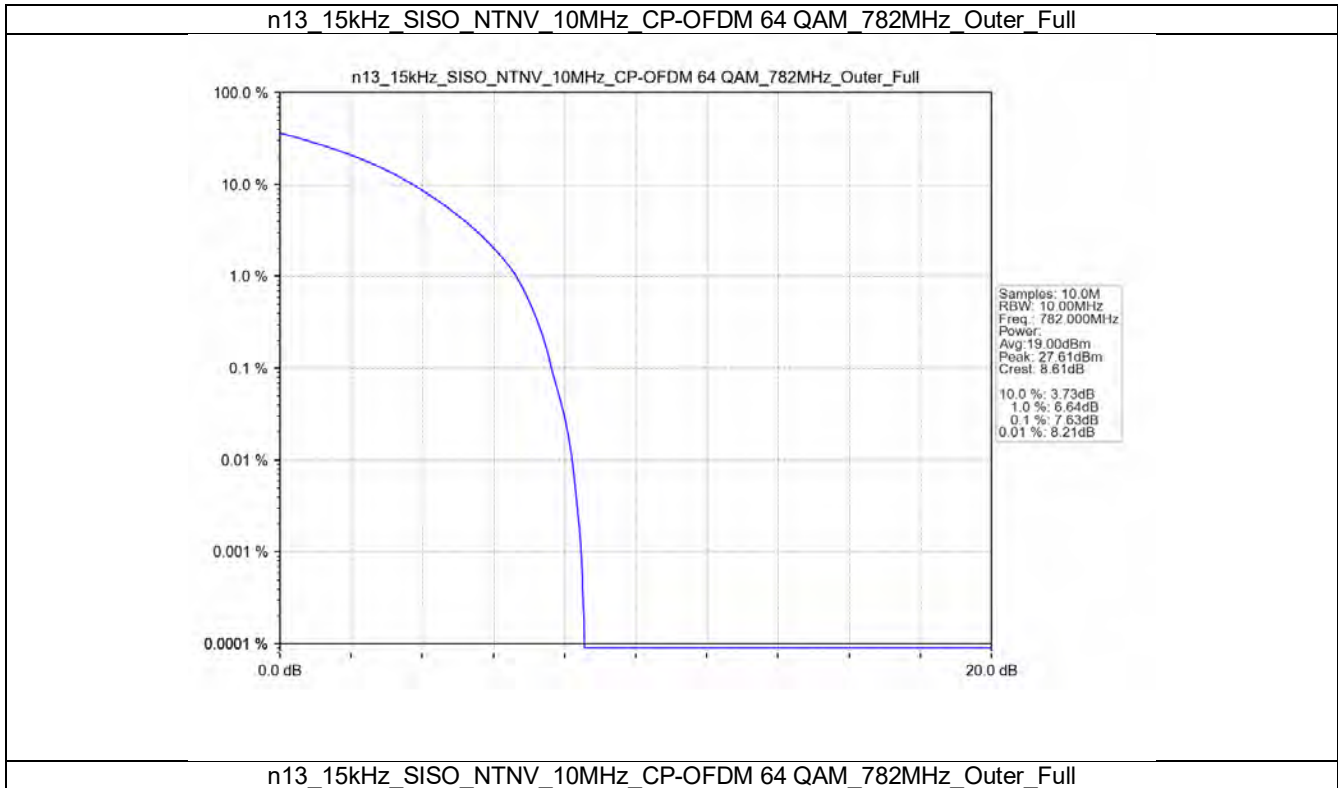


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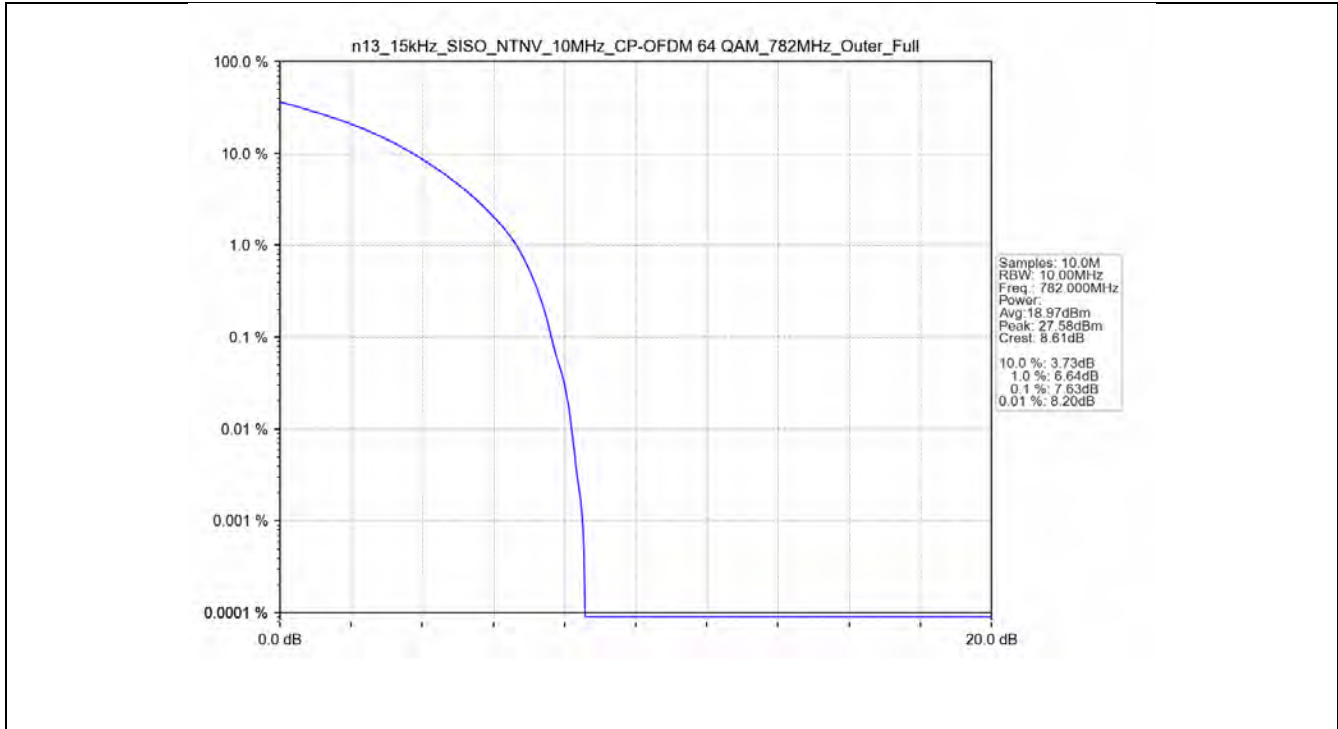


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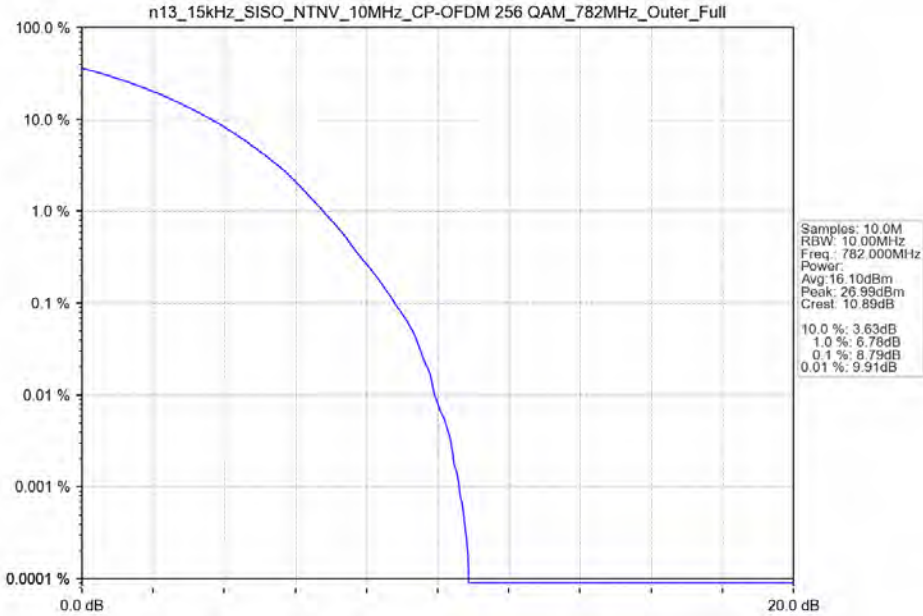
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Report No.: SZCR240100038409

Rev.: 01

Page: 124 of 237

n13 15kHz SISO NTNv 10MHz CP-OFDM 256 QAM 782MHz Outer Full



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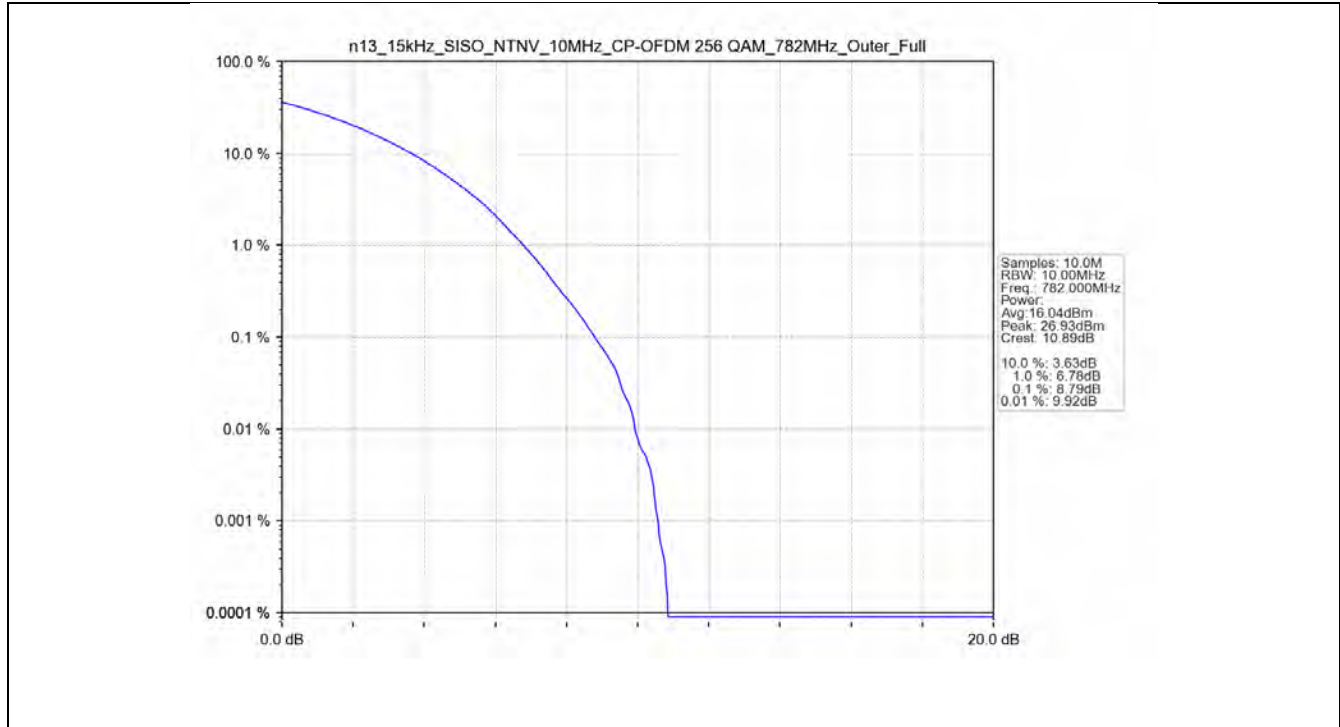


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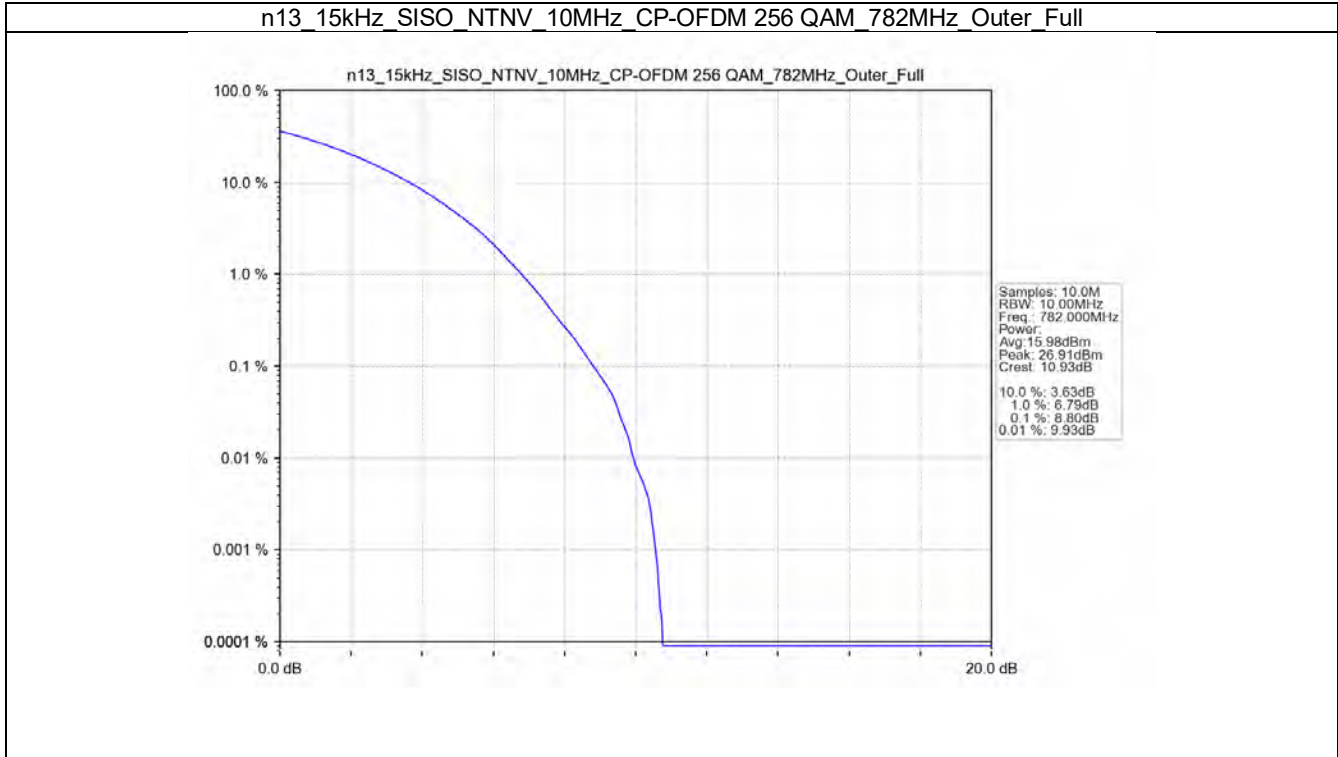
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Report No.: SZCR240100038409

Rev.: 01

Page: 127 of 237

5. Spurious Emission & Band Edges

5.1 15k_SISO_5MHz_NTNV

5.1.1 Test Result

5G NR n13 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	779.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	784.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	779.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	784.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	779.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	784.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass



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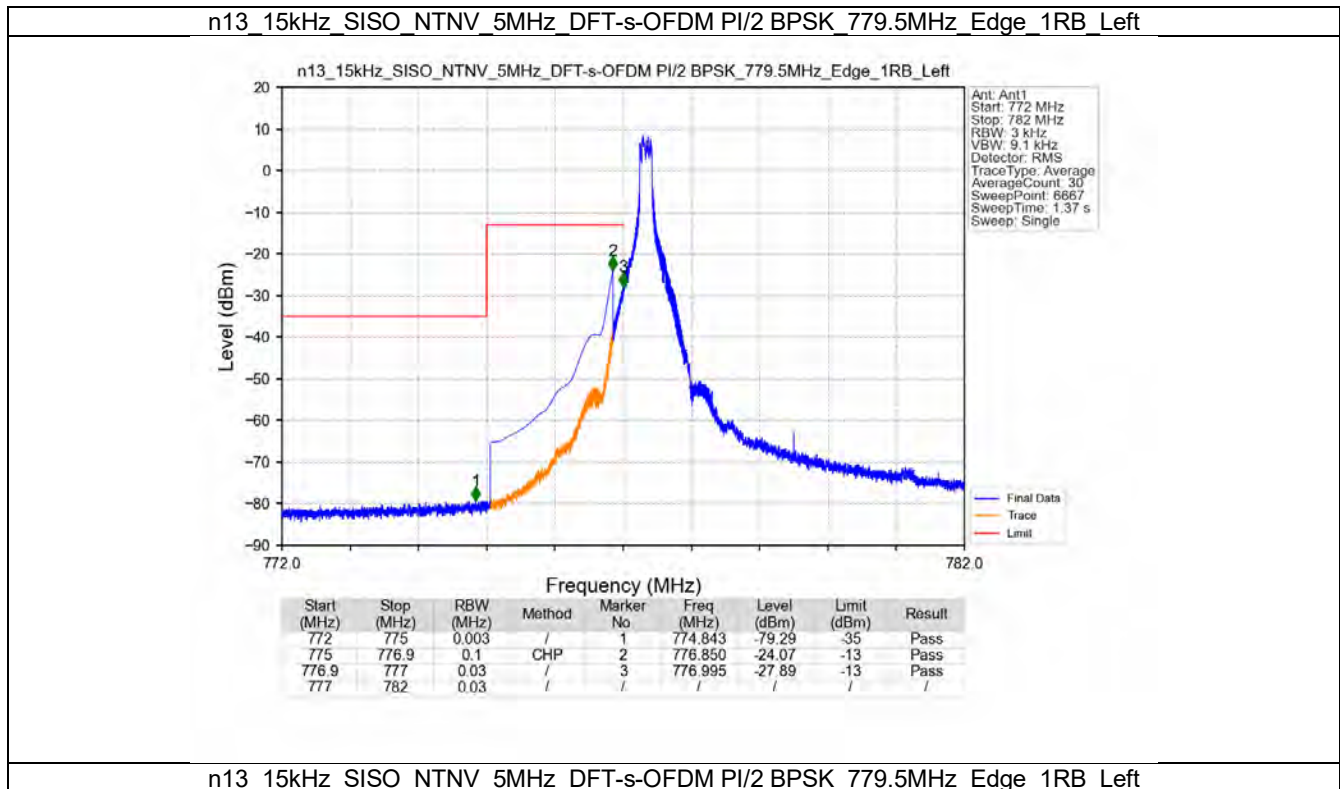
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Report No.: SZCR240100038409

Rev.: 01

Page: 128 of 237

5.1.2 Test Graph



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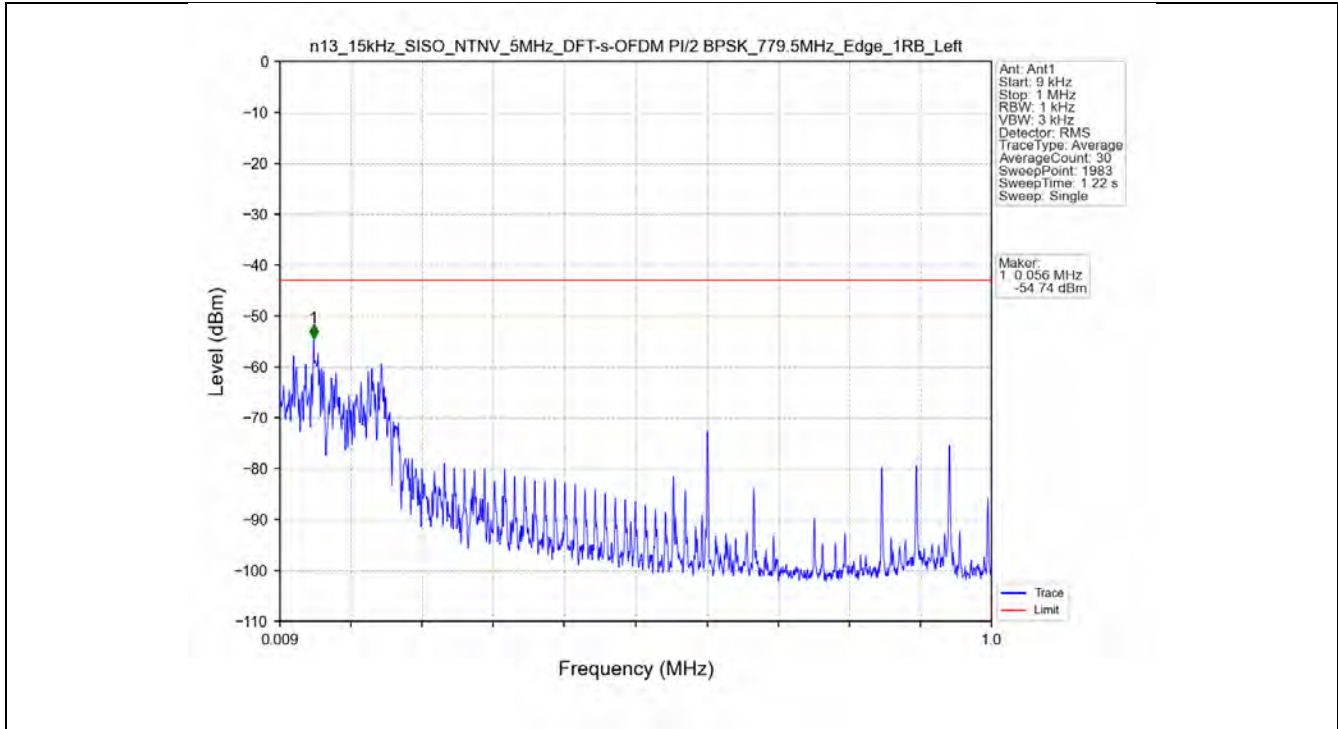


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Report No.: SZCR240100038409

Rev.: 01

Page: 129 of 237



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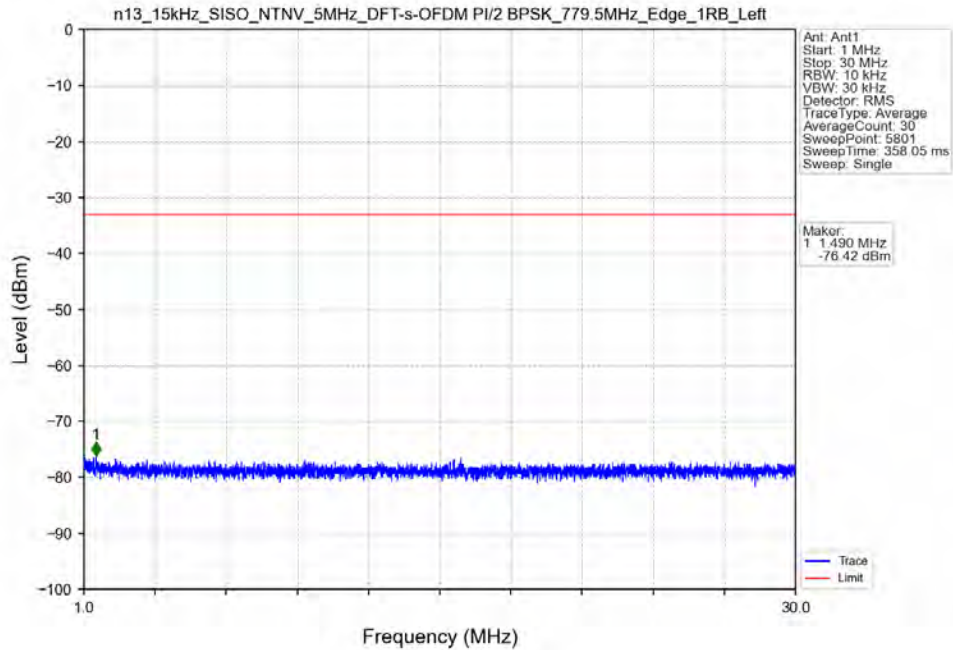
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Report No.: SZCR240100038409

Rev.: 01

Page: 130 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 779.5MHz_Edge_1RB_Left



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 779.5MHz_Edge_1RB_Left



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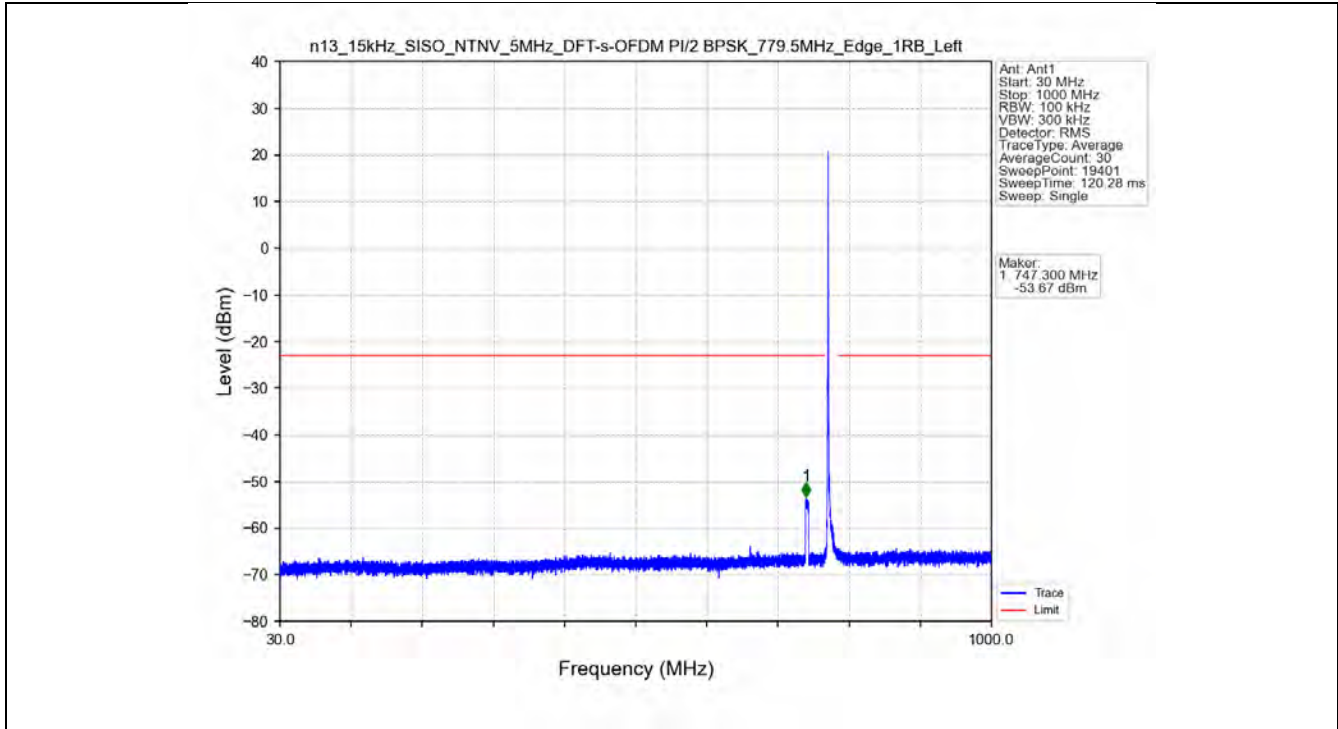


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Report No.: SZCR240100038409

Rev.: 01

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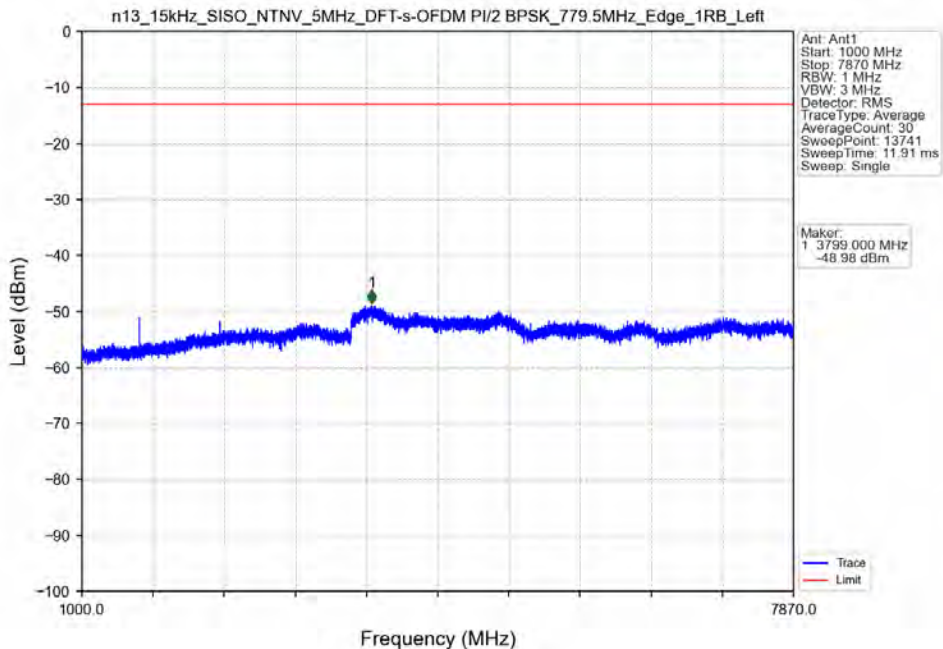
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Report No.: SZCR240100038409
Rev.: 01
Page: 132 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_779.5MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_779.5MHz_Outer_Full



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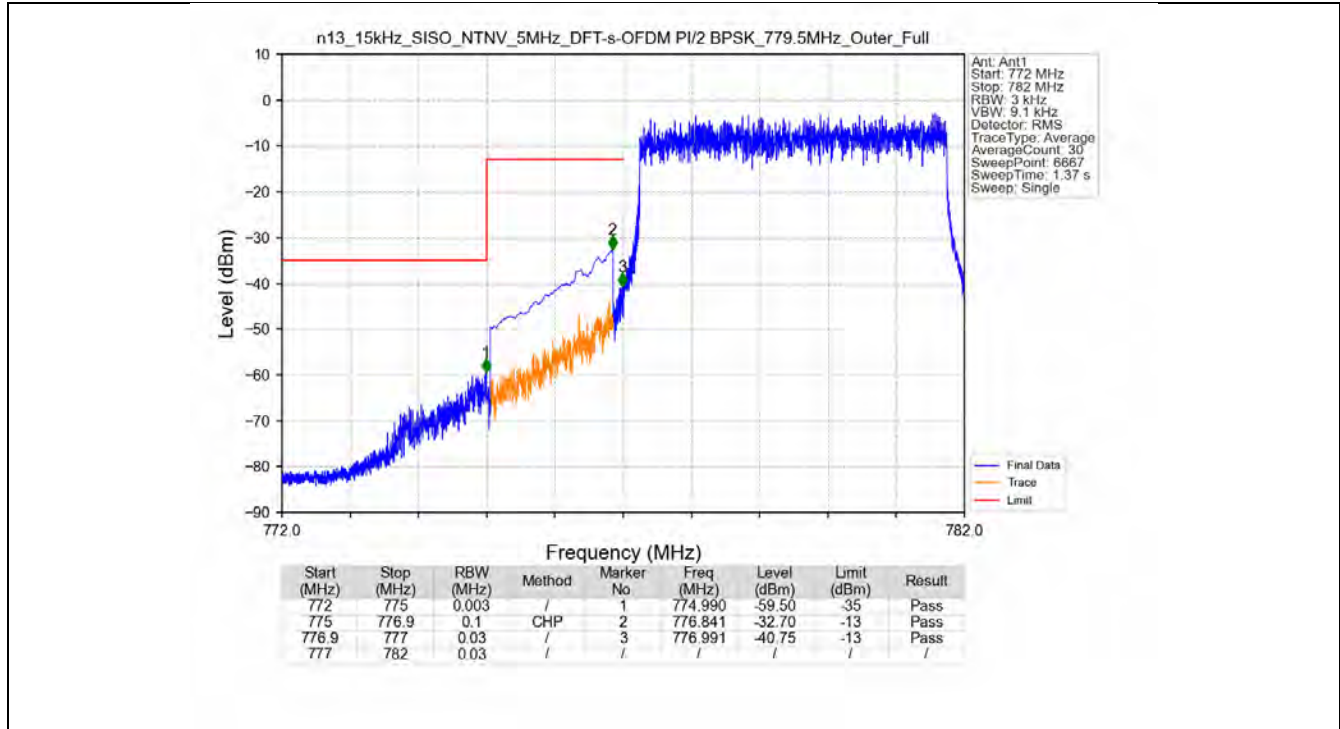


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Rev.: 01

Page: 133 of 237



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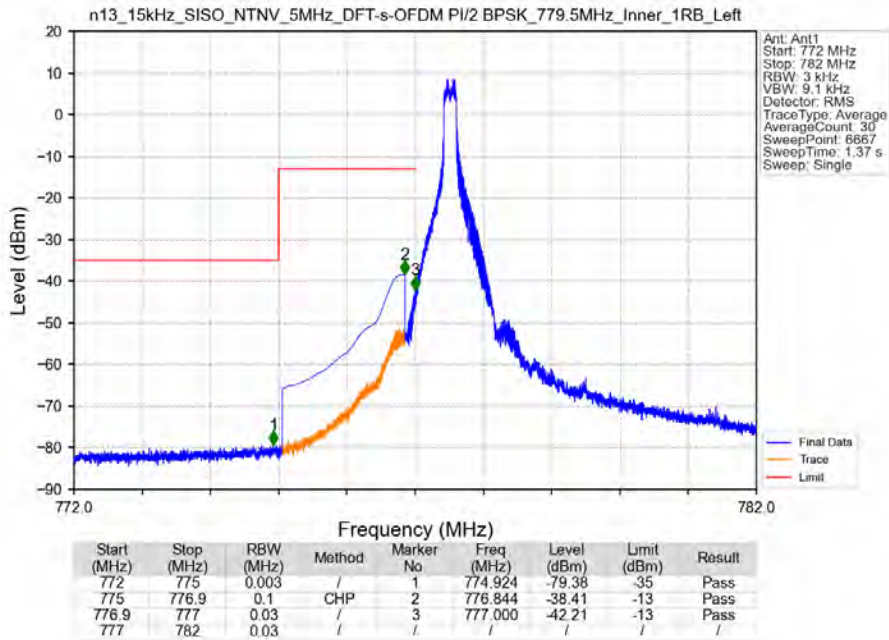
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Report No.: SZCR240100038409

Rev.: 01

Page: 134 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_779.5MHz_Inner_1RB_Left



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Left



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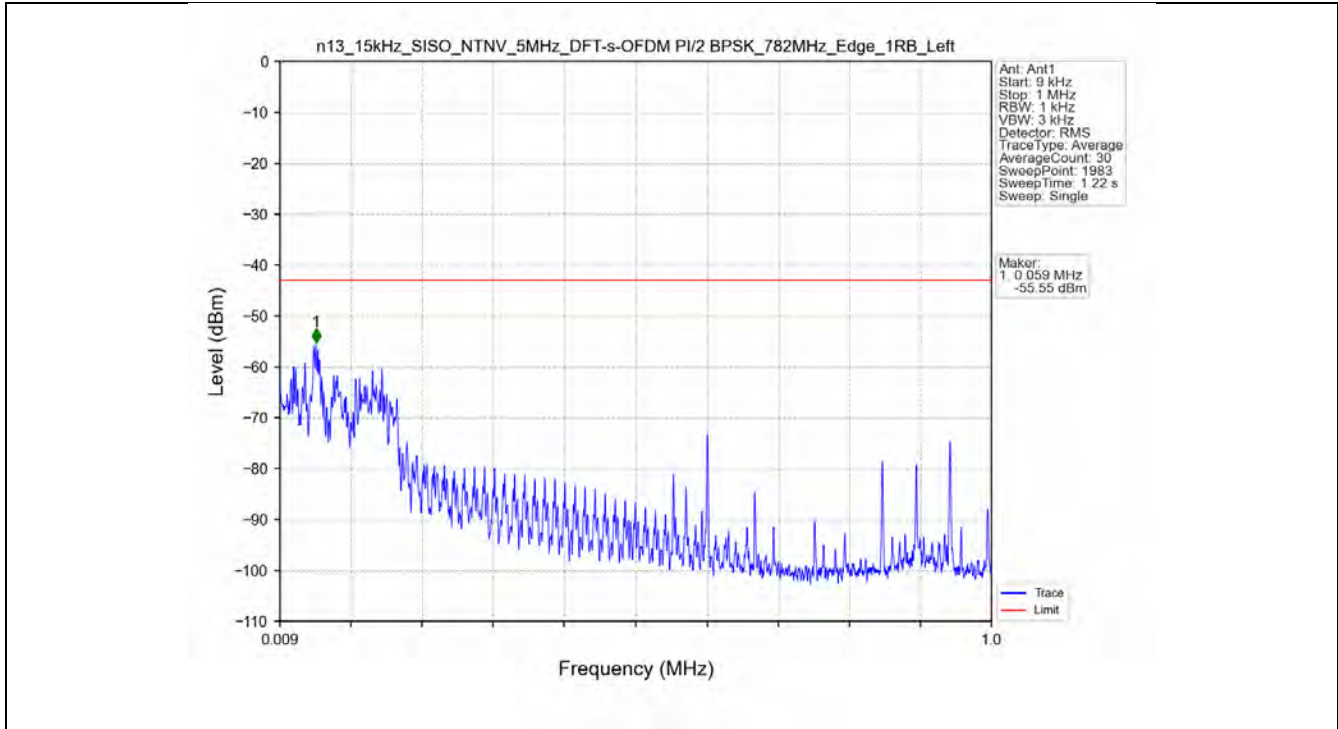


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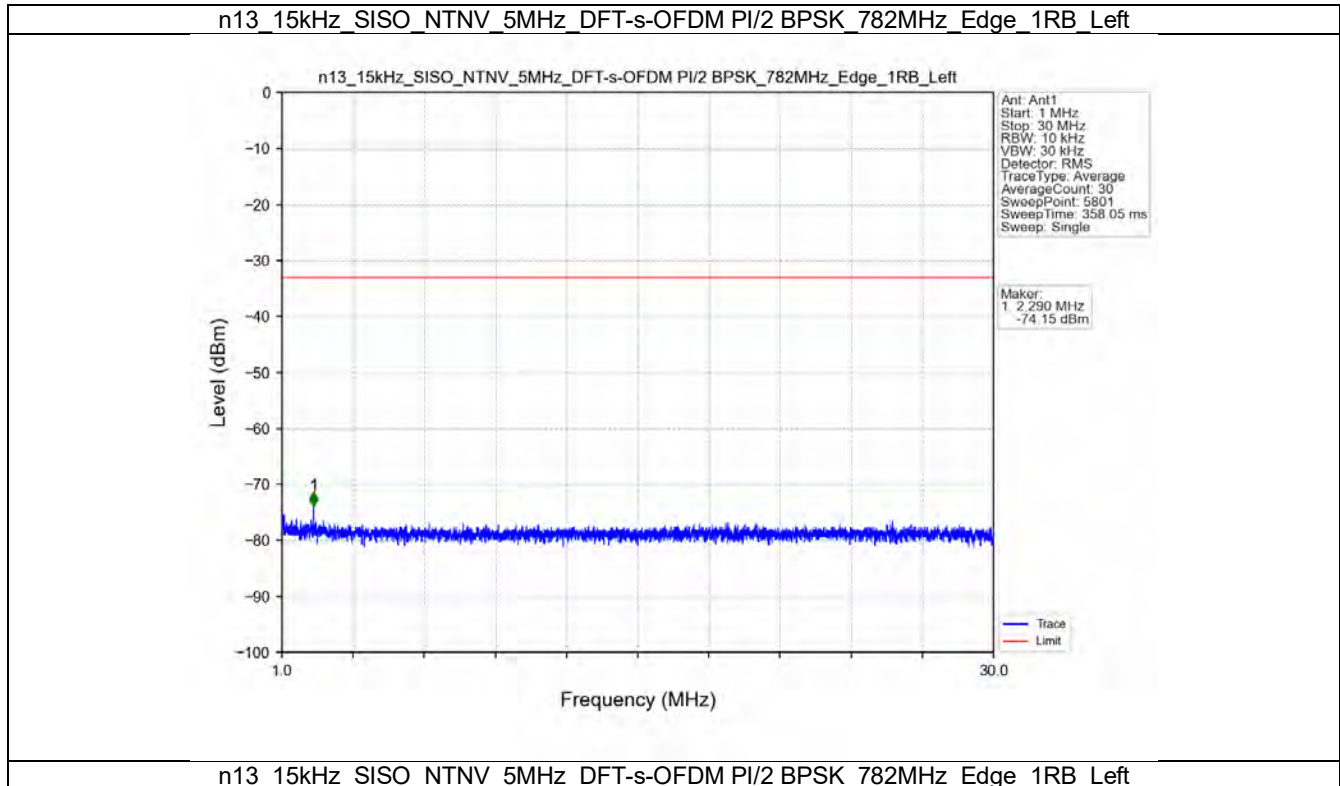


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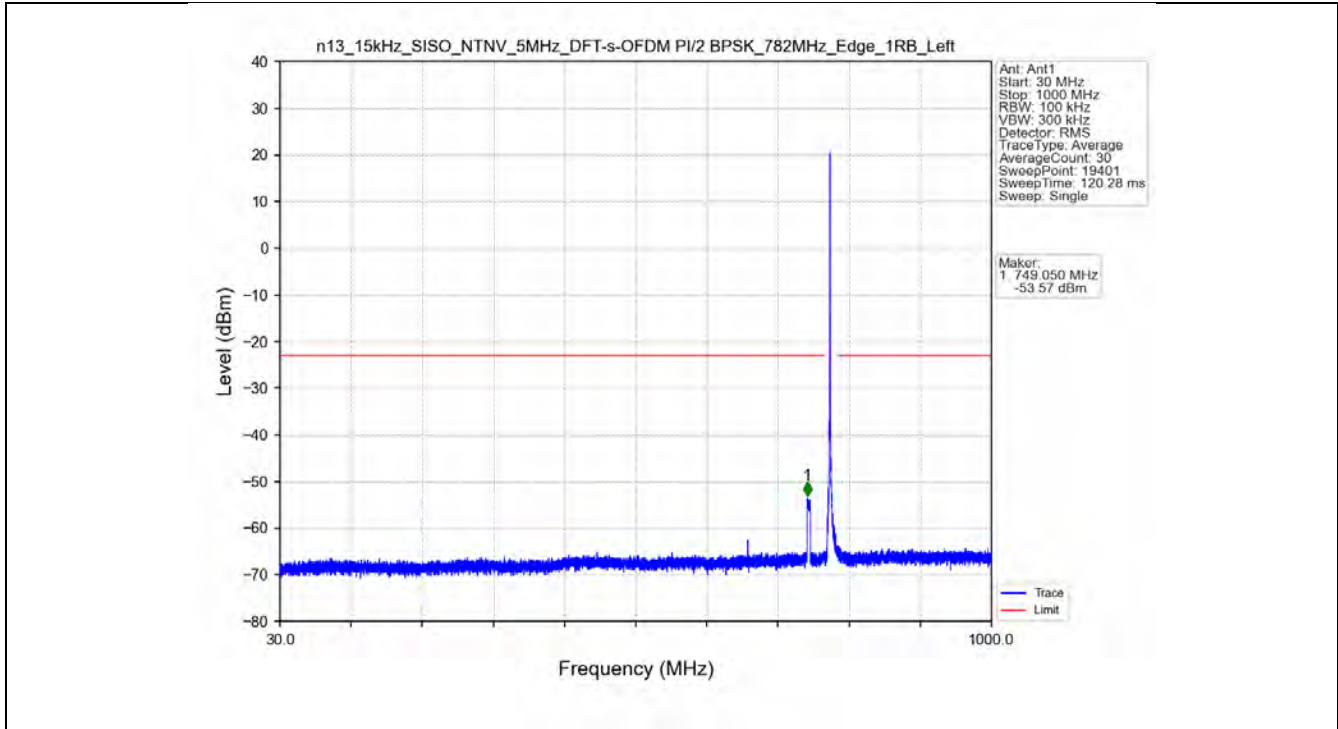


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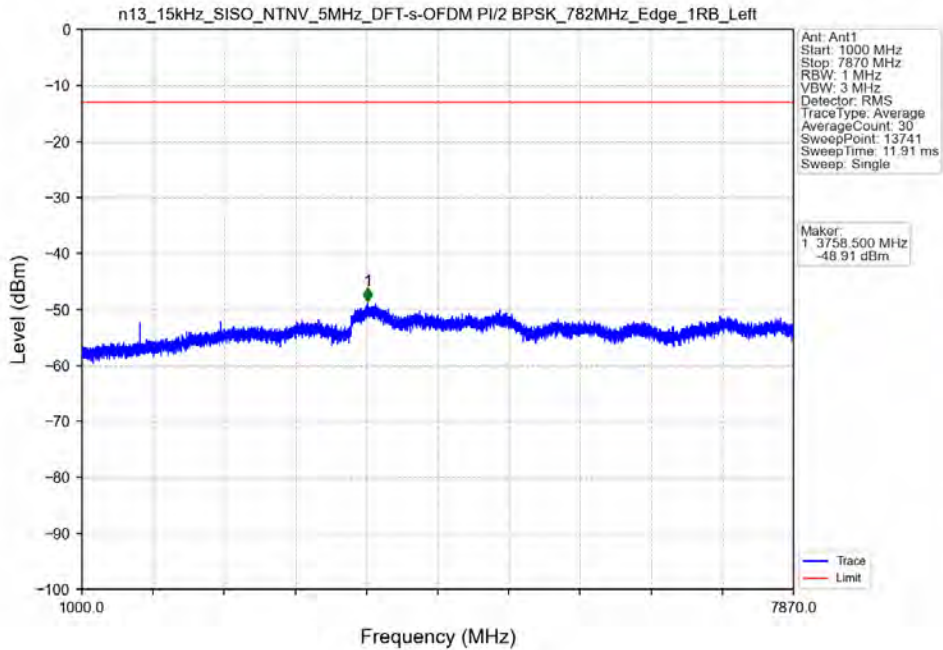
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Report No.: SZCR240100038409

Rev.: 01

Page: 138 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_784.5MHz_Edge_1RB_Right



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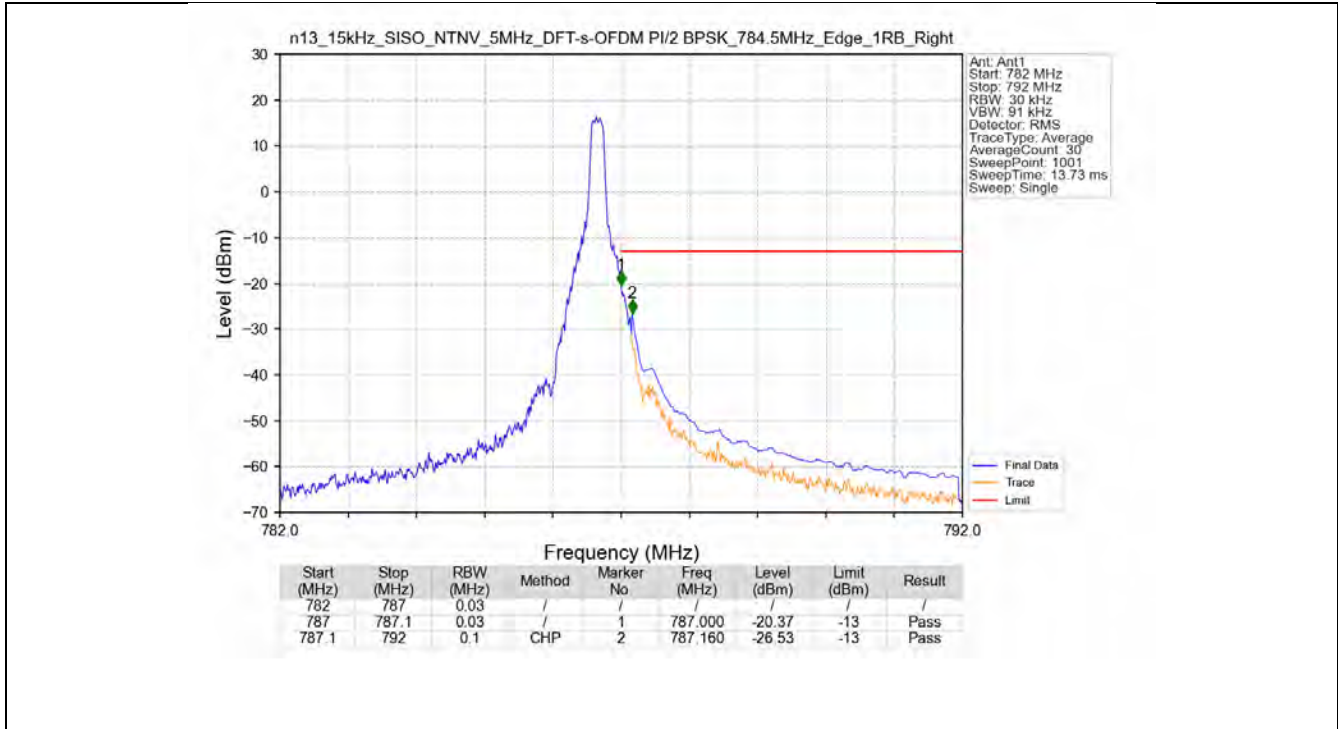


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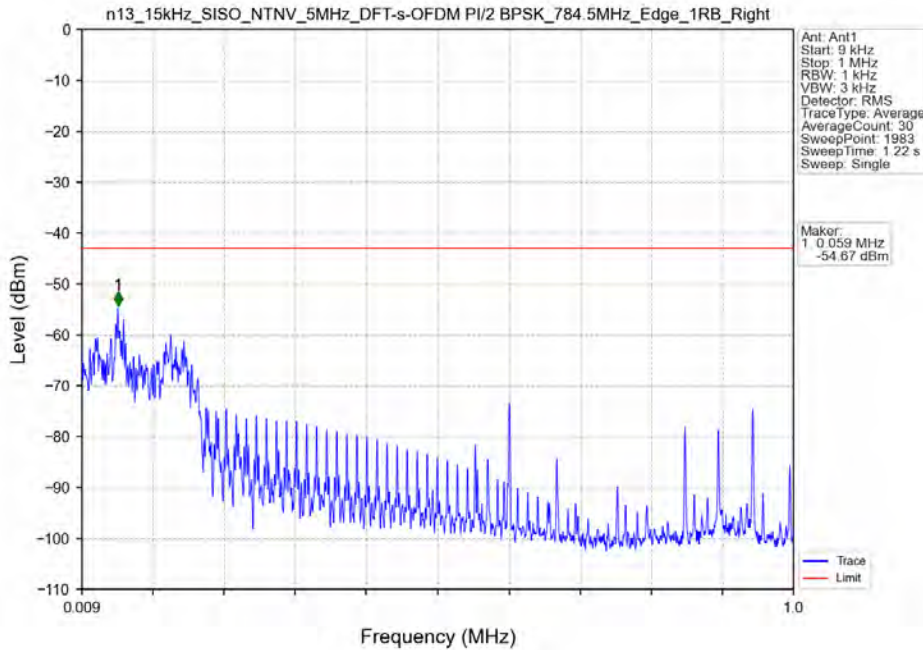
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Report No.: SZCR240100038409

Rev.: 01

Page: 140 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_784.5MHz_Edge_1RB_Right



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_784.5MHz_Edge_1RB_Right



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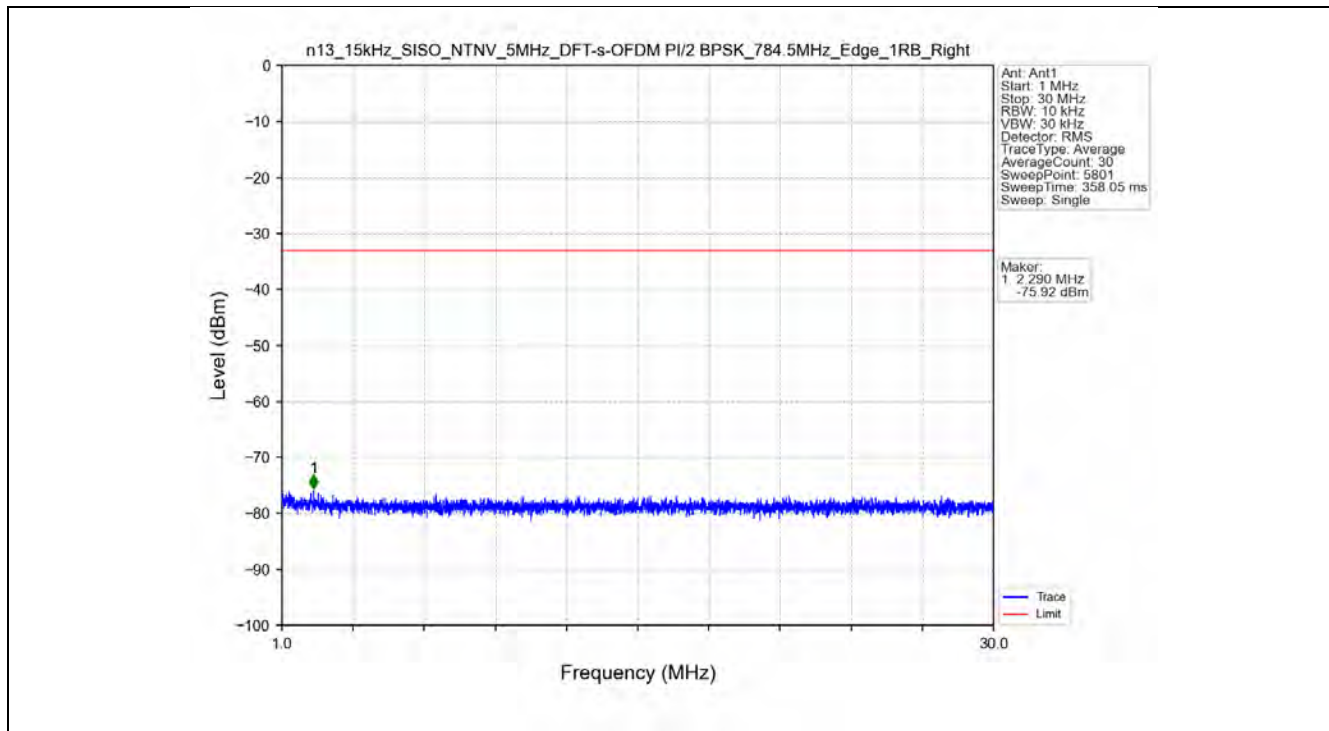
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Report No.: SZCR240100038409
 Rev.: 01
 Page: 141 of 237



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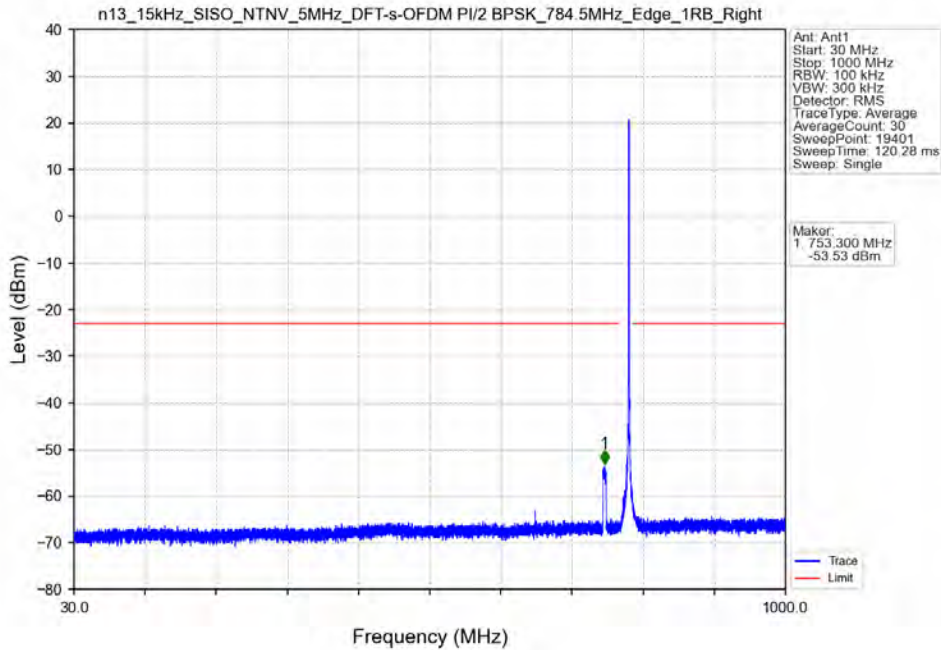
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Shenzhen Branch**

Report No.: SZCR240100038409

Rev.: 01

Page: 142 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_784.5MHz_Edge_1RB_Right



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_784.5MHz_Edge_1RB_Right



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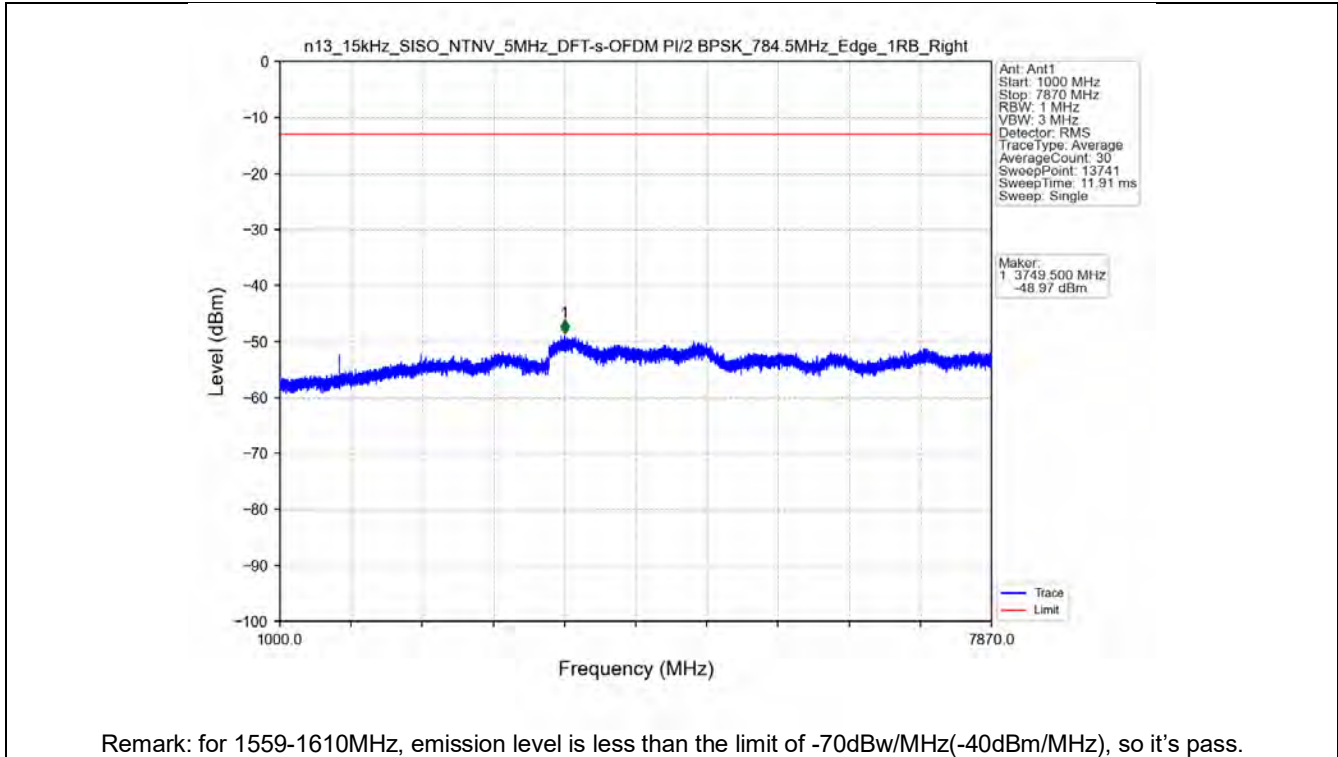


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Report No.: SZCR240100038409

Rev.: 01

Page: 143 of 237



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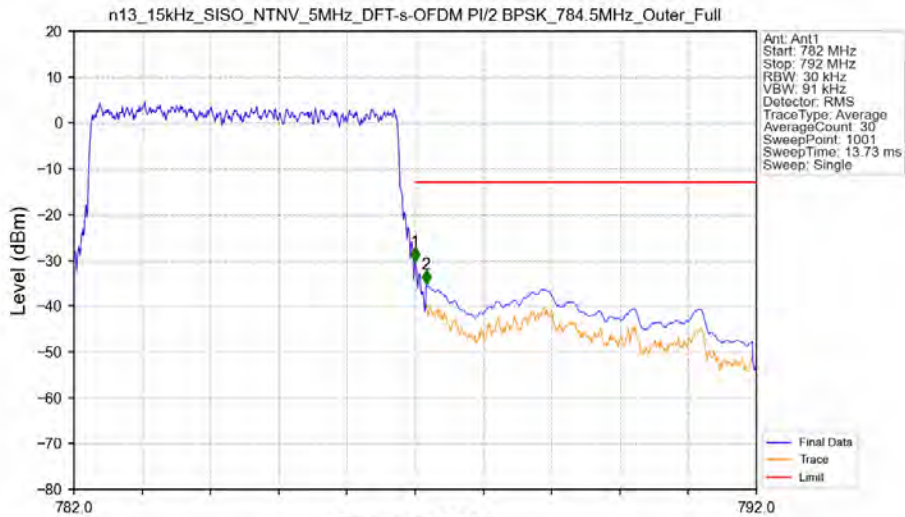
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Report No.: SZCR240100038409

Rev.: 01

Page: 144 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_784.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
782	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-30.33	-13	Pass
787.1	792	0.1	CHP	2	787.160	-35.26	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_784.5MHz_Inner_1RB_Right



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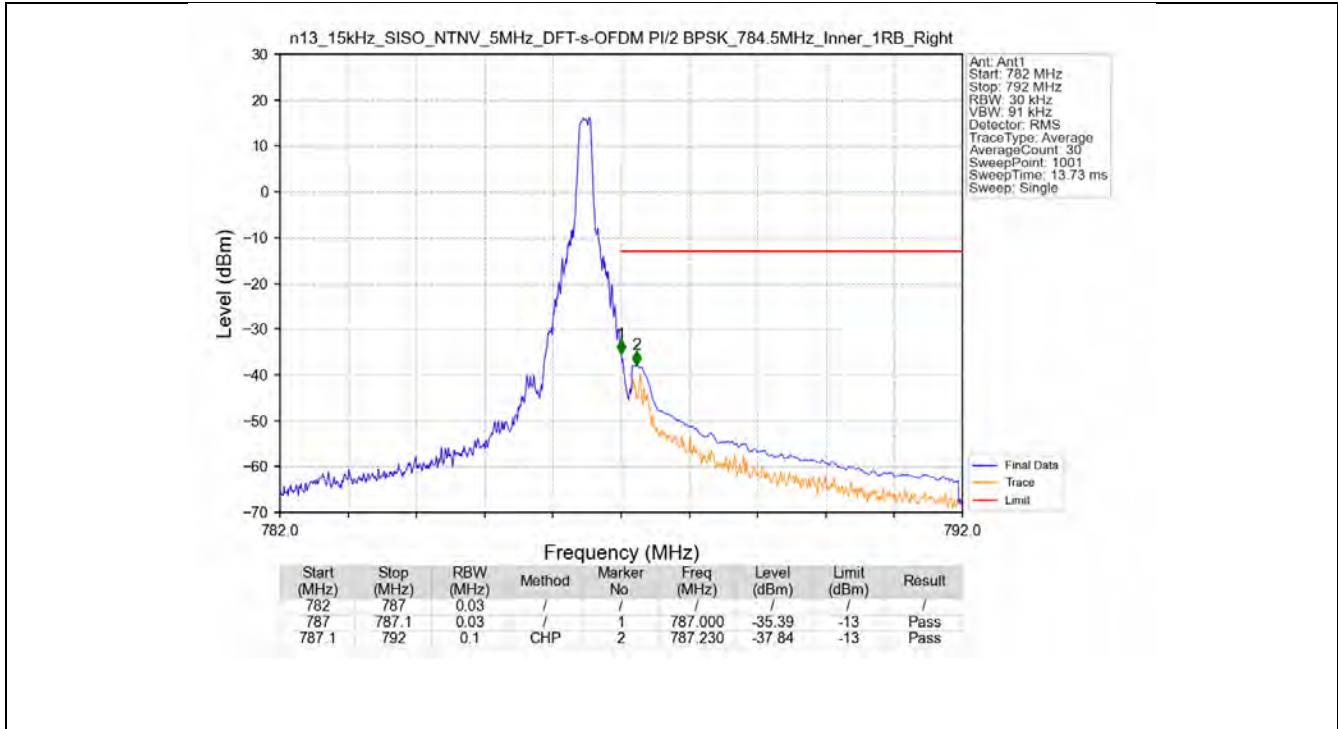


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Report No.: SZCR240100038409

Rev.: 01

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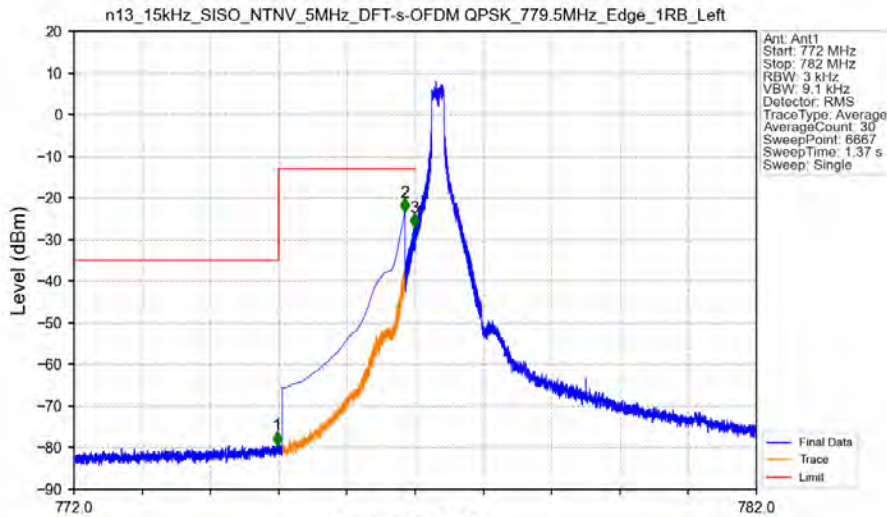
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Report No.: SZCR240100038409

Rev.: 01

Page: 146 of 237

n13 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 779.5MHz Edge 1RB Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.003	/	1	774.978	-79.43	-35	Pass
775	776.9	0.1	CHP	2	776.850	-23.43	-13	Pass
776.9	777	0.03	/	3	776.991	-27.16	-13	Pass
777	782	0.03	/	/	/	/	/	/

n13 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 779.5MHz Edge 1RB Left



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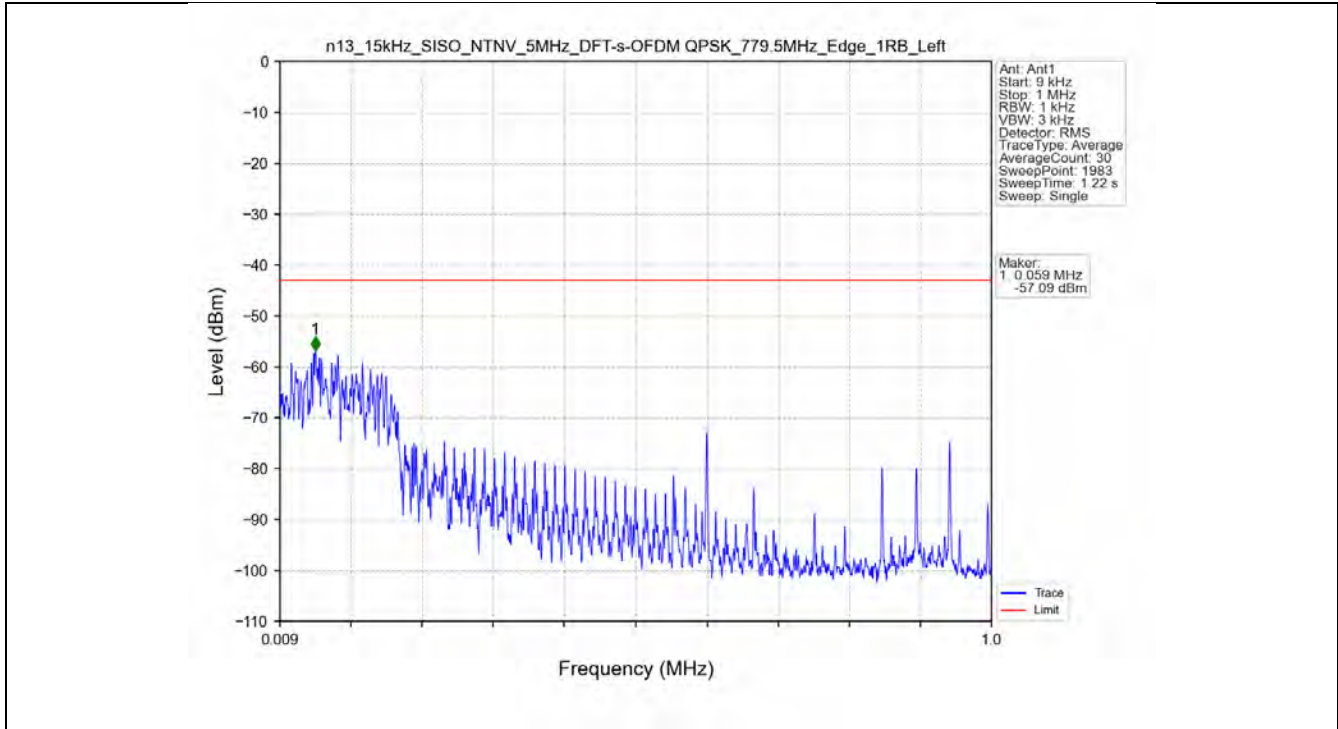


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Rev.: 01

Page: 147 of 237



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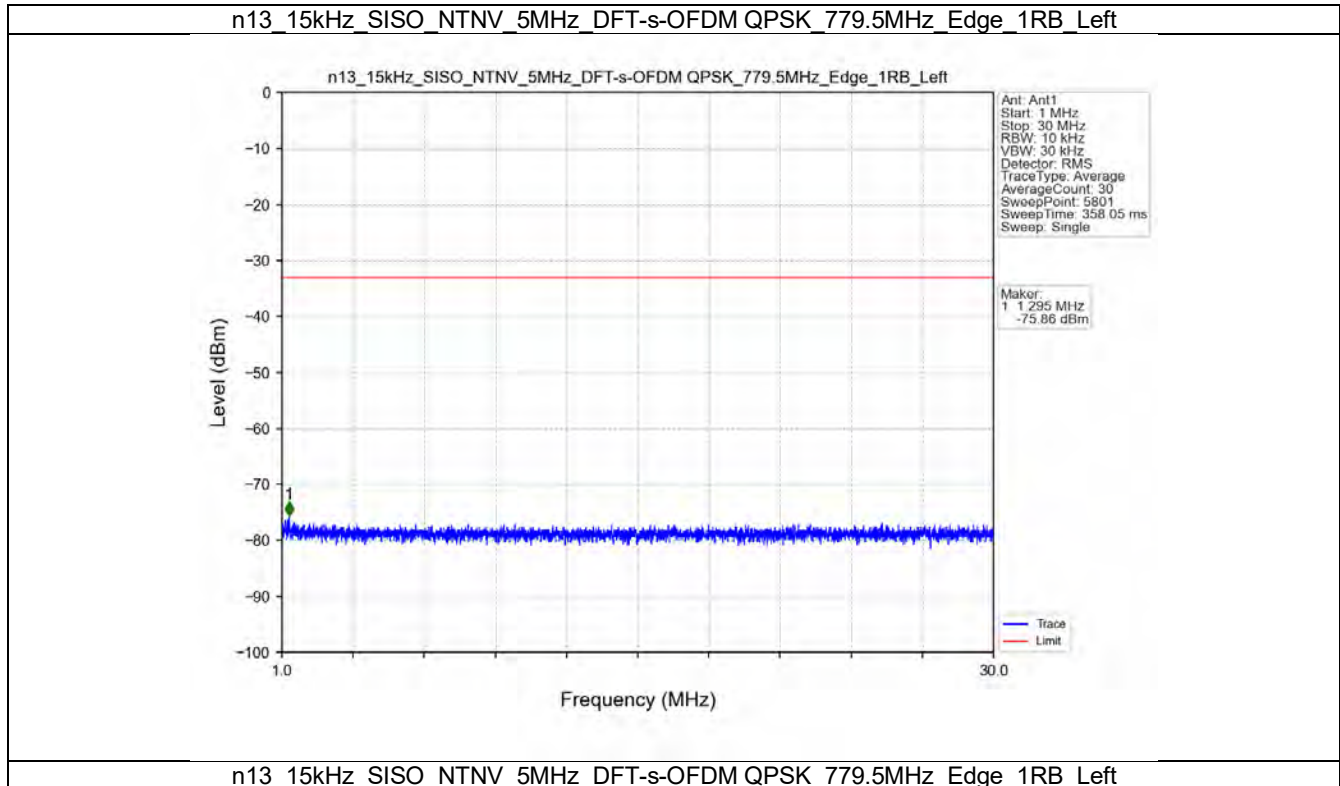


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Page: 148 of 237



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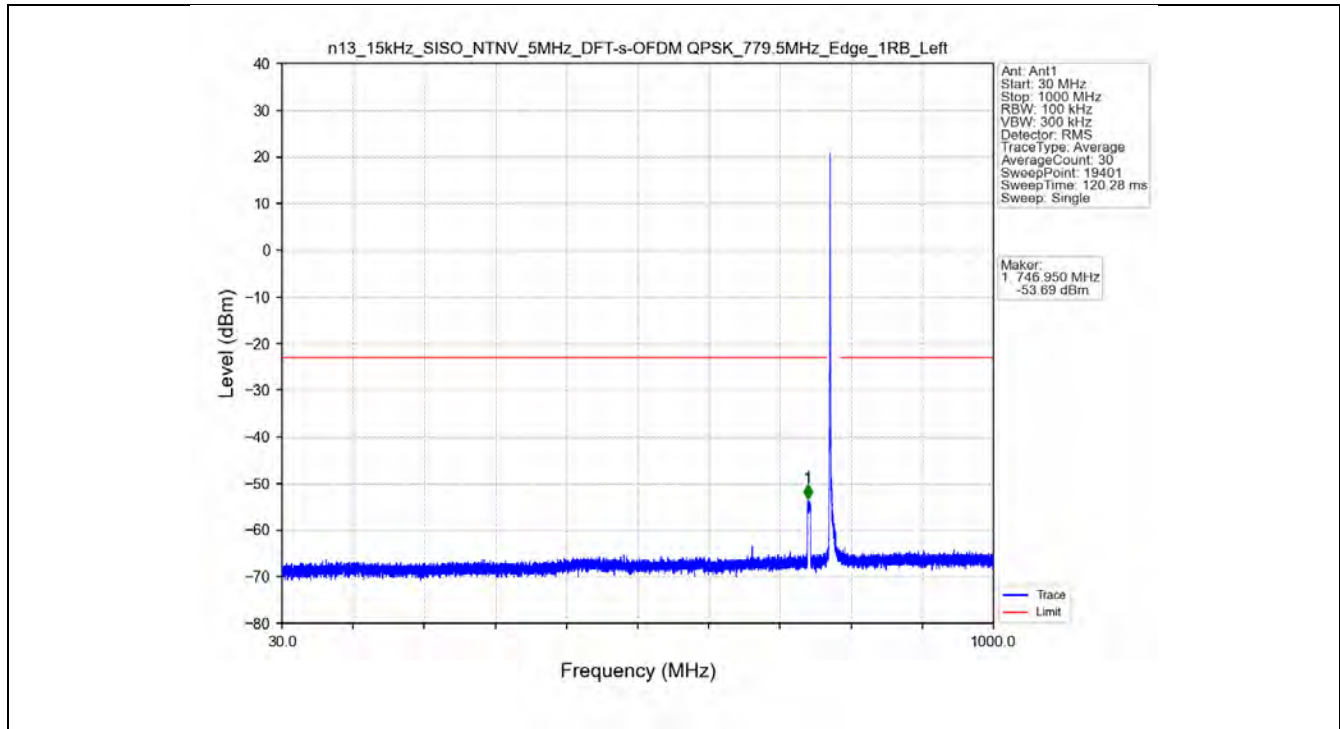


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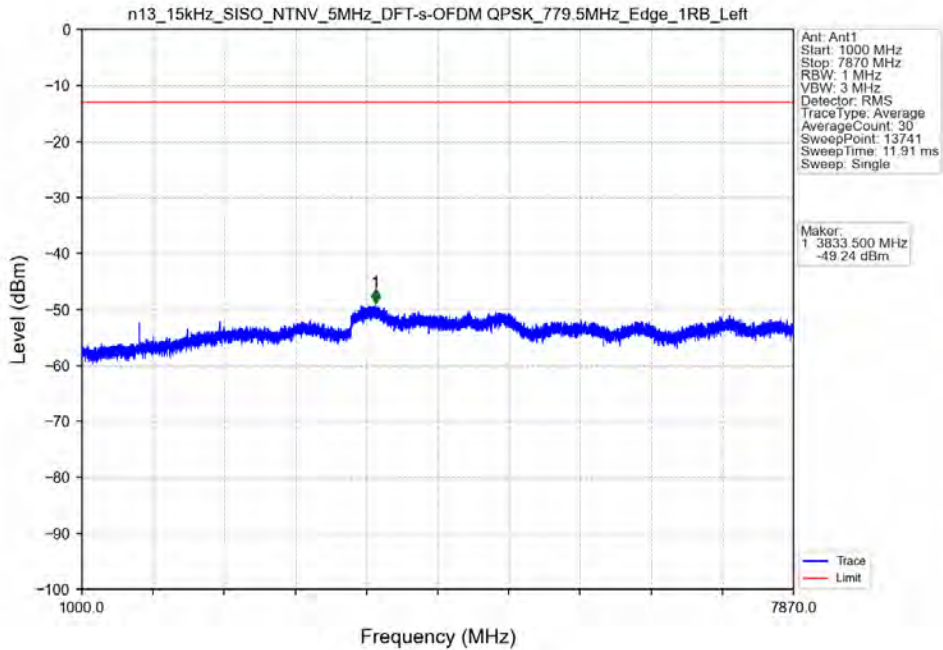
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Shenzhen Branch**

Report No.: SZCR240100038409

Rev.: 01

Page: 150 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_779.5MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_779.5MHz_Outer_Full



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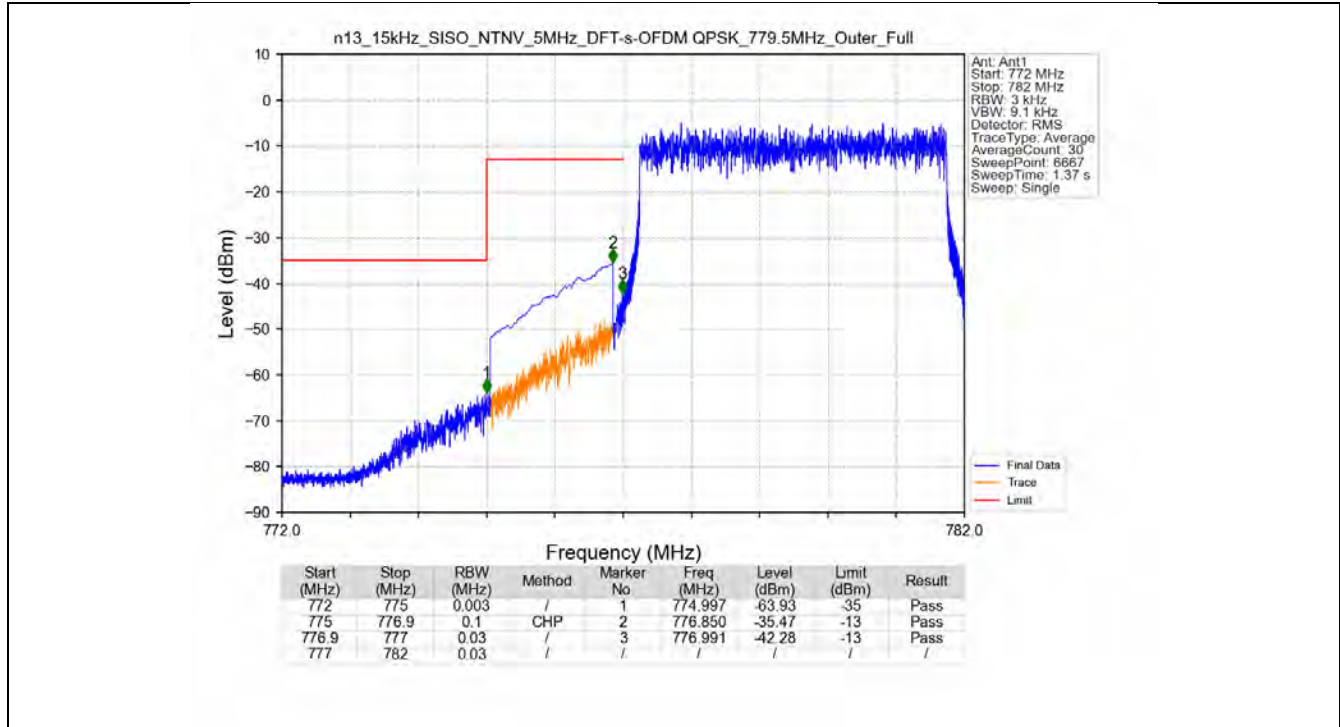


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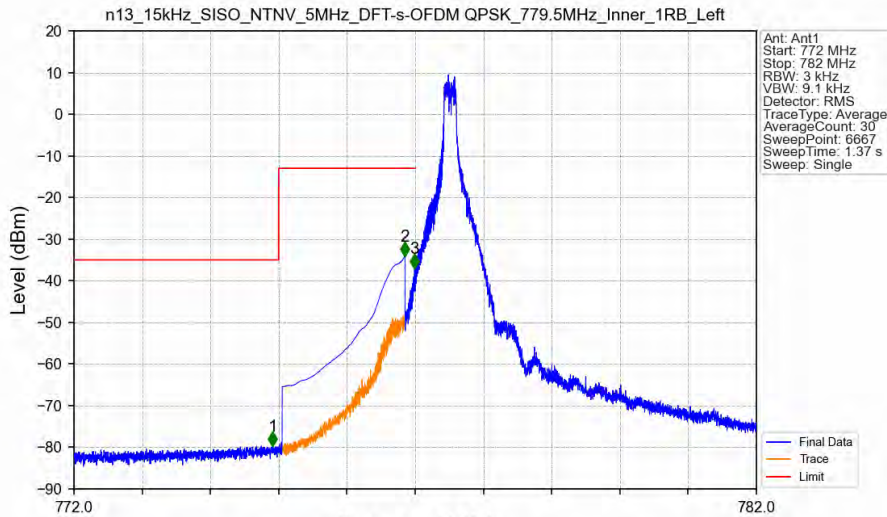
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Report No.: SZCR240100038409

Rev.: 01

Page: 152 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_779.5MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.003	/	1	774.912	-79.69	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.09	-13	Pass
776.9	777	0.03	/	3	776.991	-37.04	-13	Pass
777	782	0.03	/	/	/	/	/	/

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



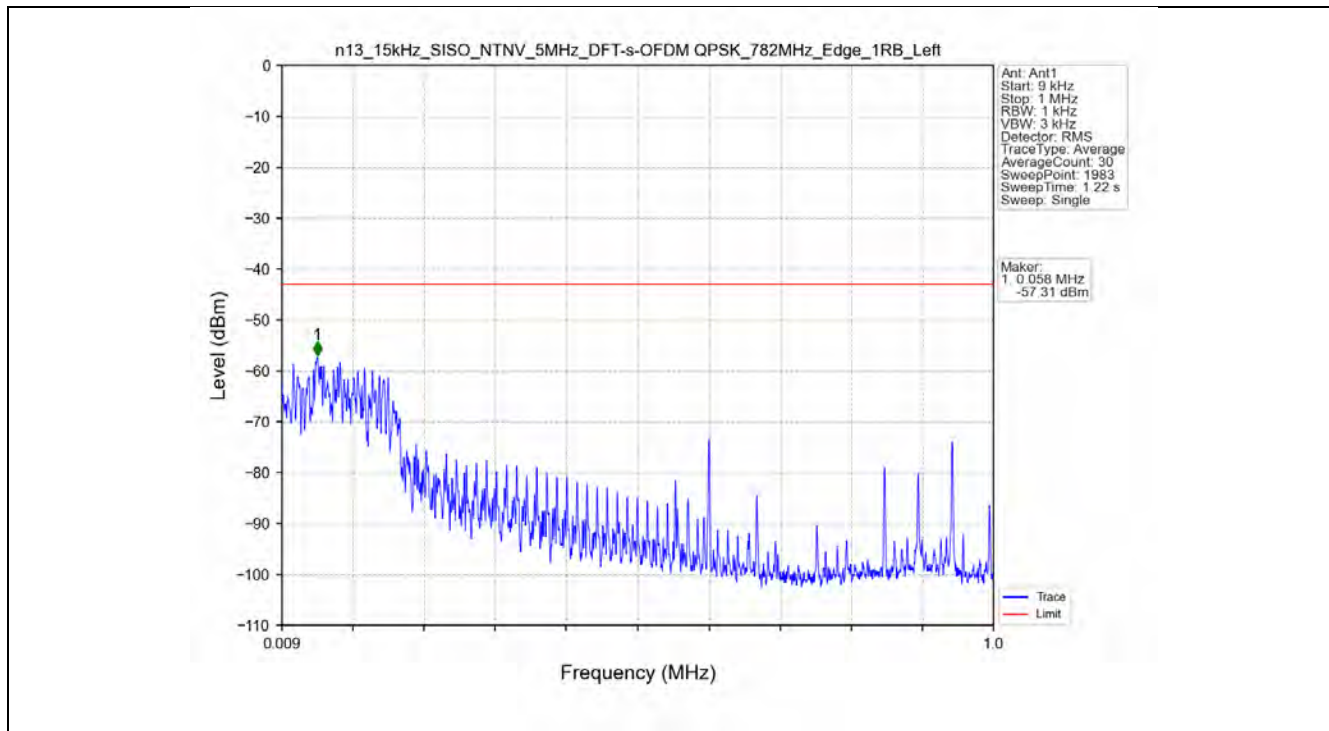
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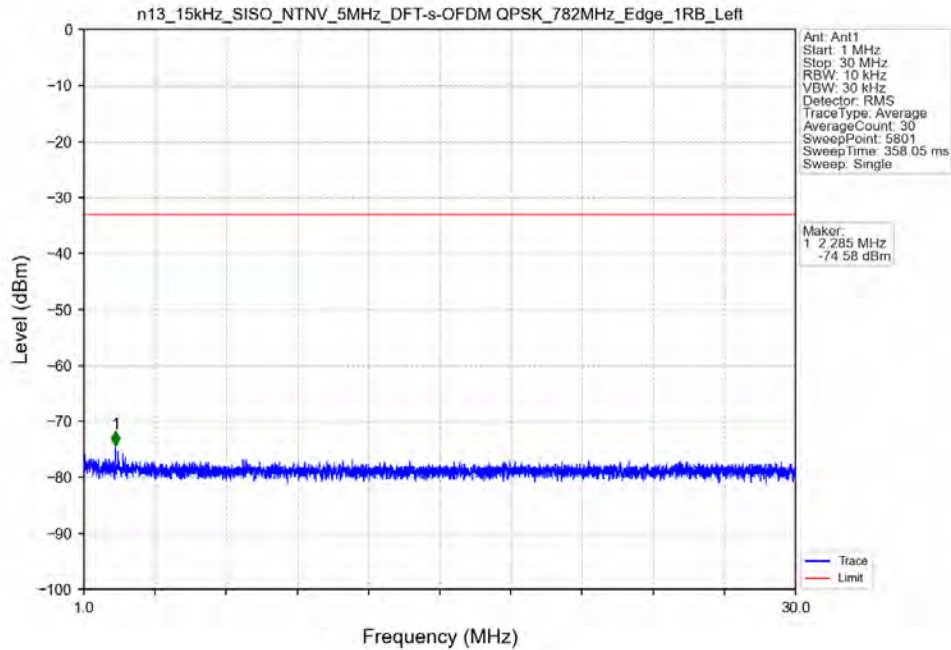
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Report No.: SZCR240100038409

Rev.: 01

Page: 154 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



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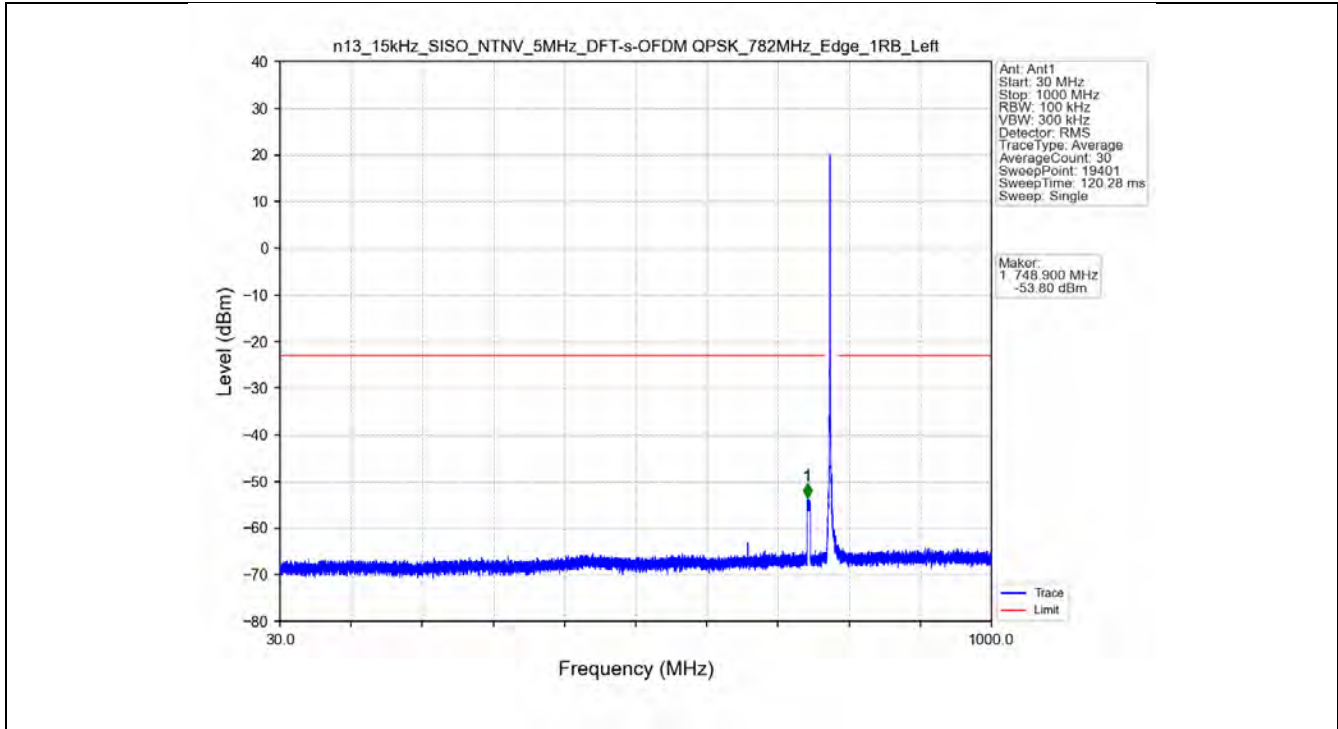


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Report No.: SZCR240100038409

Rev.: 01

Page: 155 of 237



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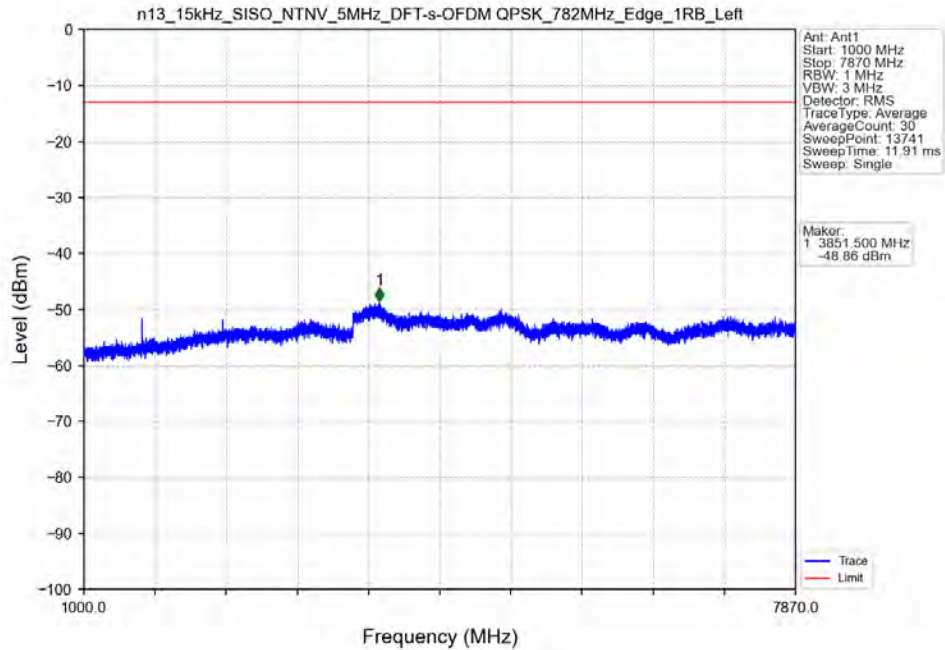
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Report No.: SZCR240100038409

Rev.: 01

Page: 156 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_784.5MHz_Edge_1RB_Right



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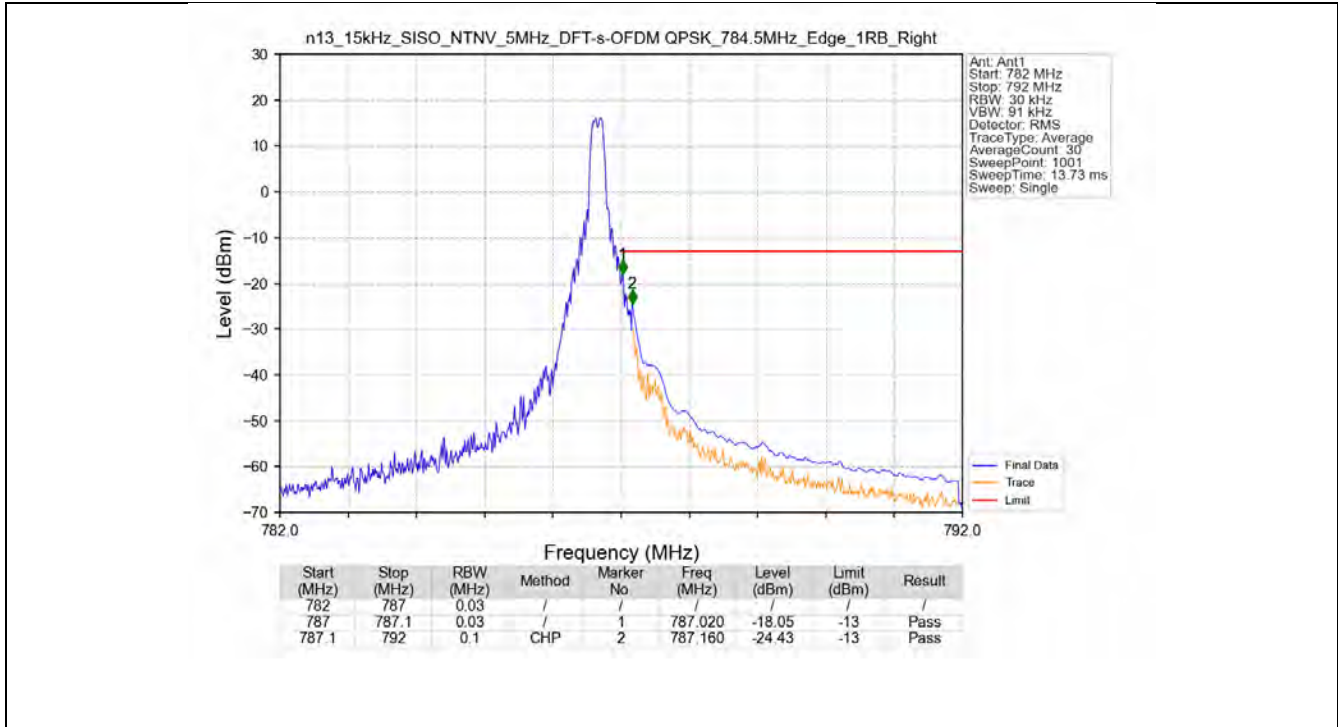


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Report No.: SZCR240100038409

Rev.: 01

Page: 157 of 237



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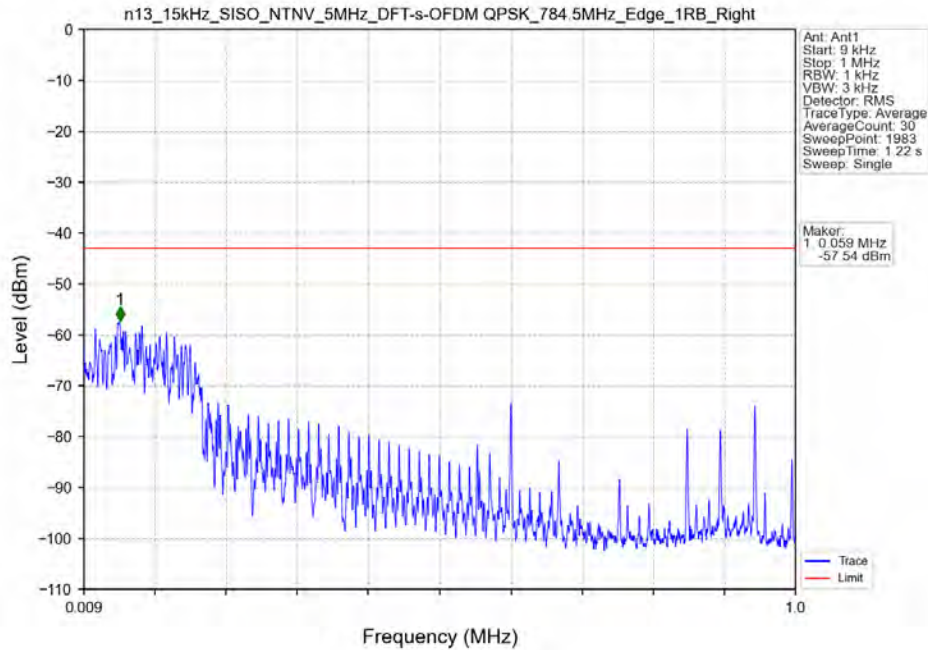
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 158 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_784.5MHz_Edge_1RB_Right



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_784.5MHz_Edge_1RB_Right



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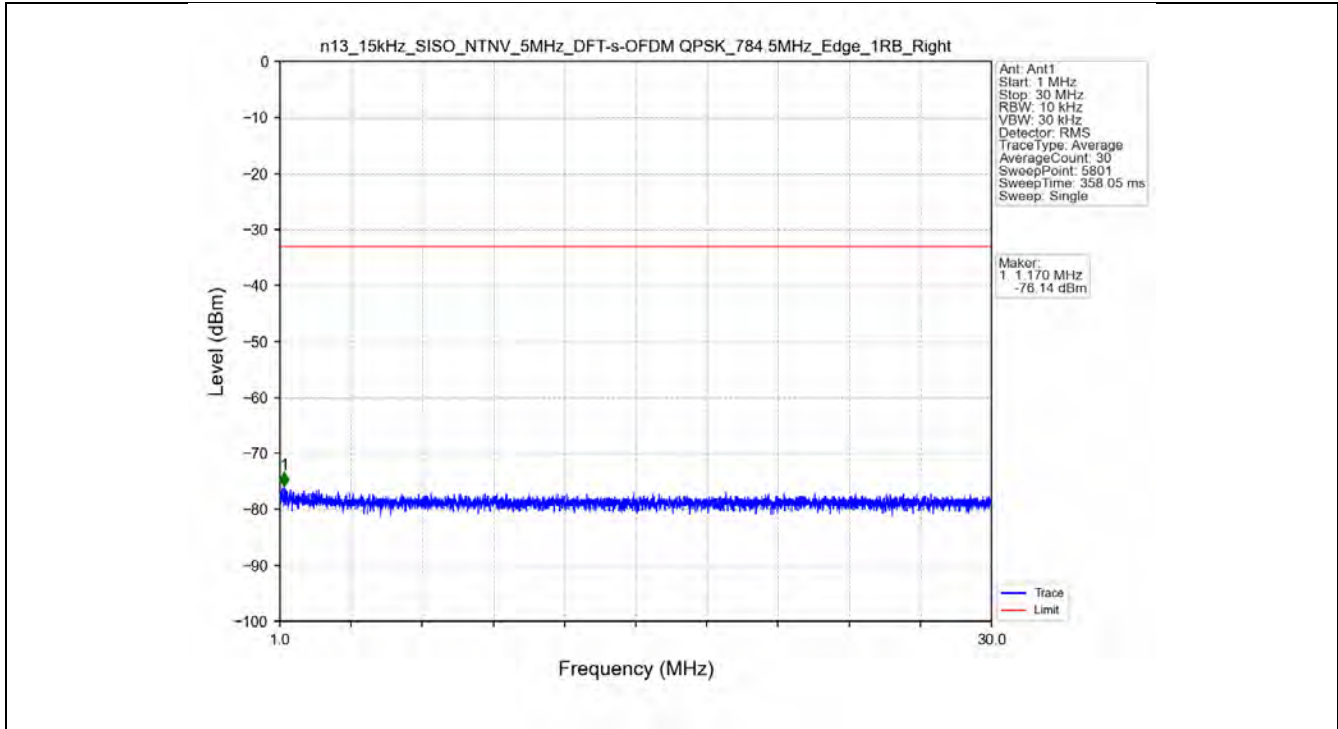


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Report No.: SZCR240100038409

Rev.: 01

Page: 159 of 237



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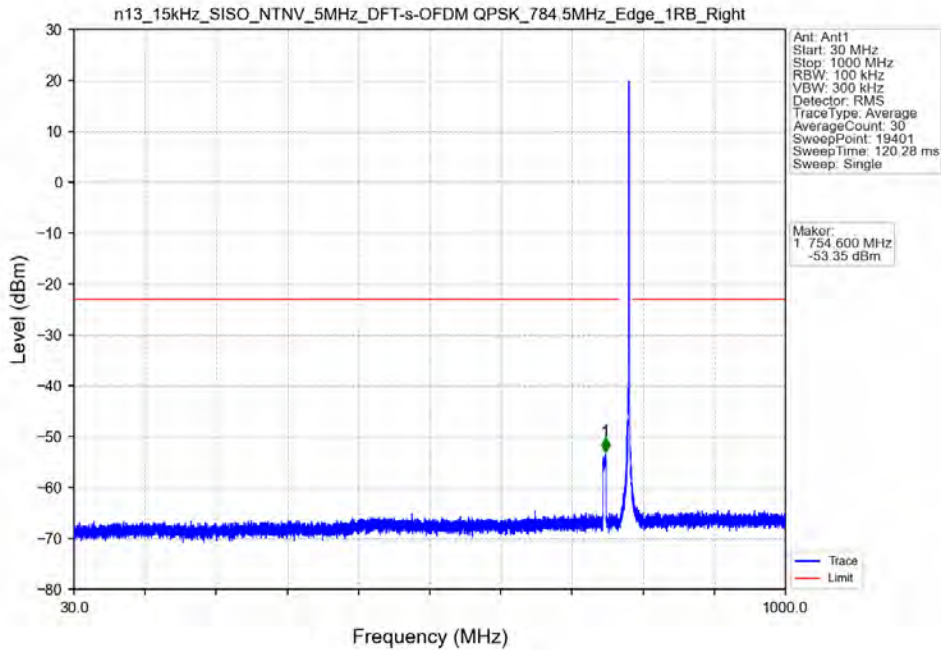
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Shenzhen Branch**

Report No.: SZCR240100038409

Rev.: 01

Page: 160 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_784.5MHz_Edge_1RB_Right



n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_784.5MHz_Edge_1RB_Right



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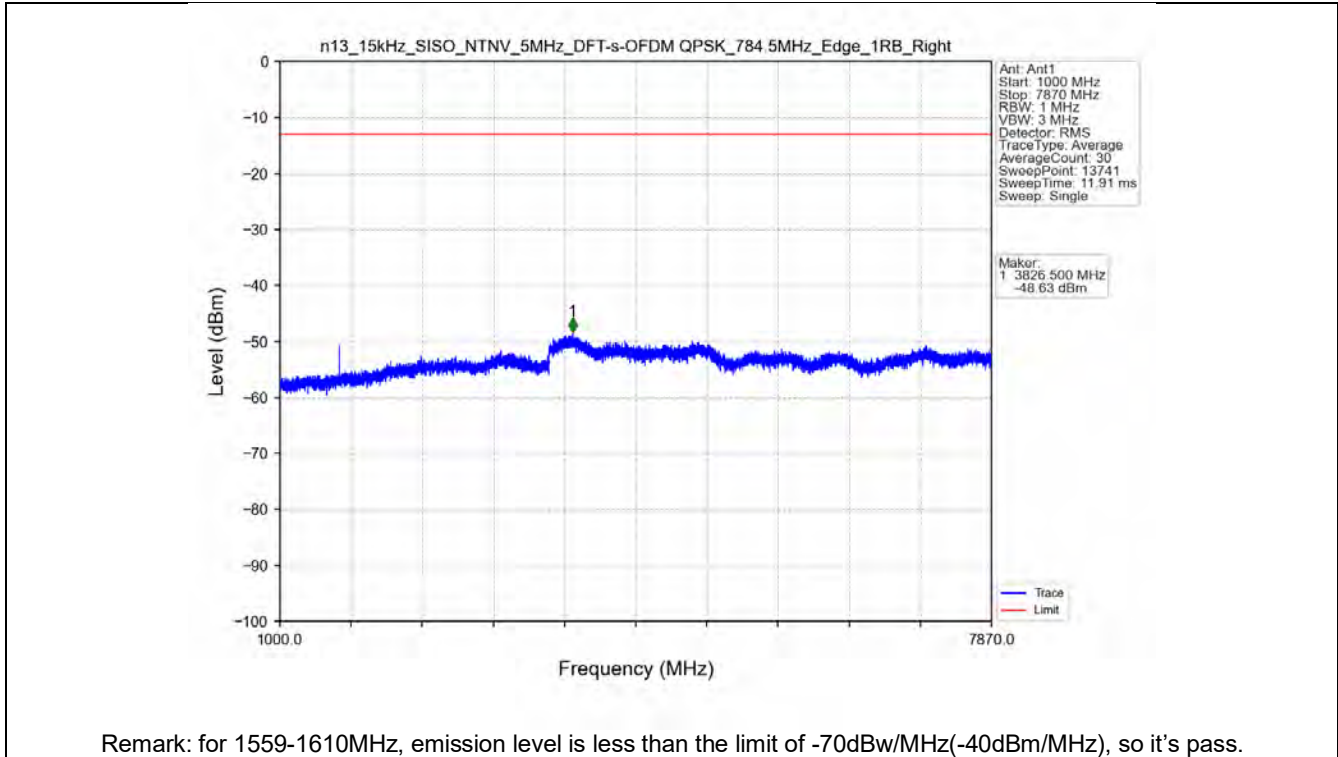


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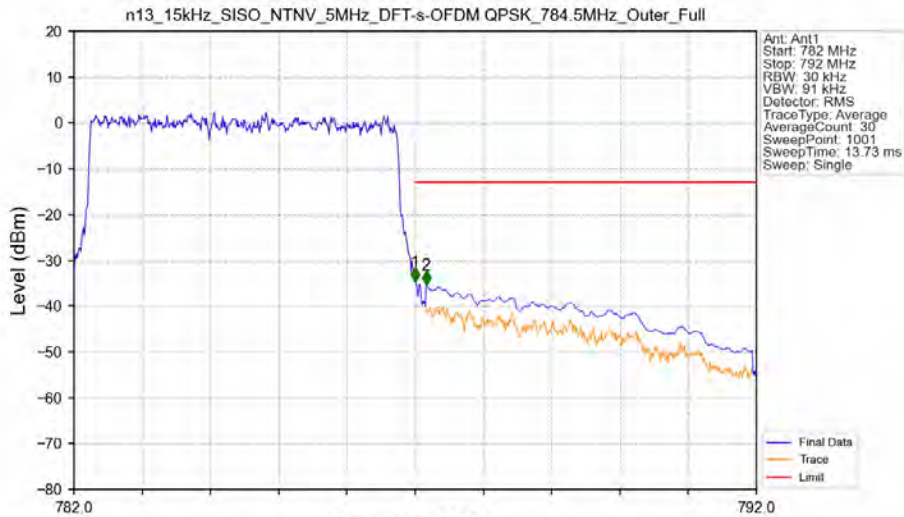
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Report No.: SZCR240100038409

Rev.: 01

Page: 162 of 237

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_784.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
782	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-34.69	-13	Pass
787.1	792	0.1	CHP	2	787.160	-35.45	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_784.5MHz_Inner_1RB_Right



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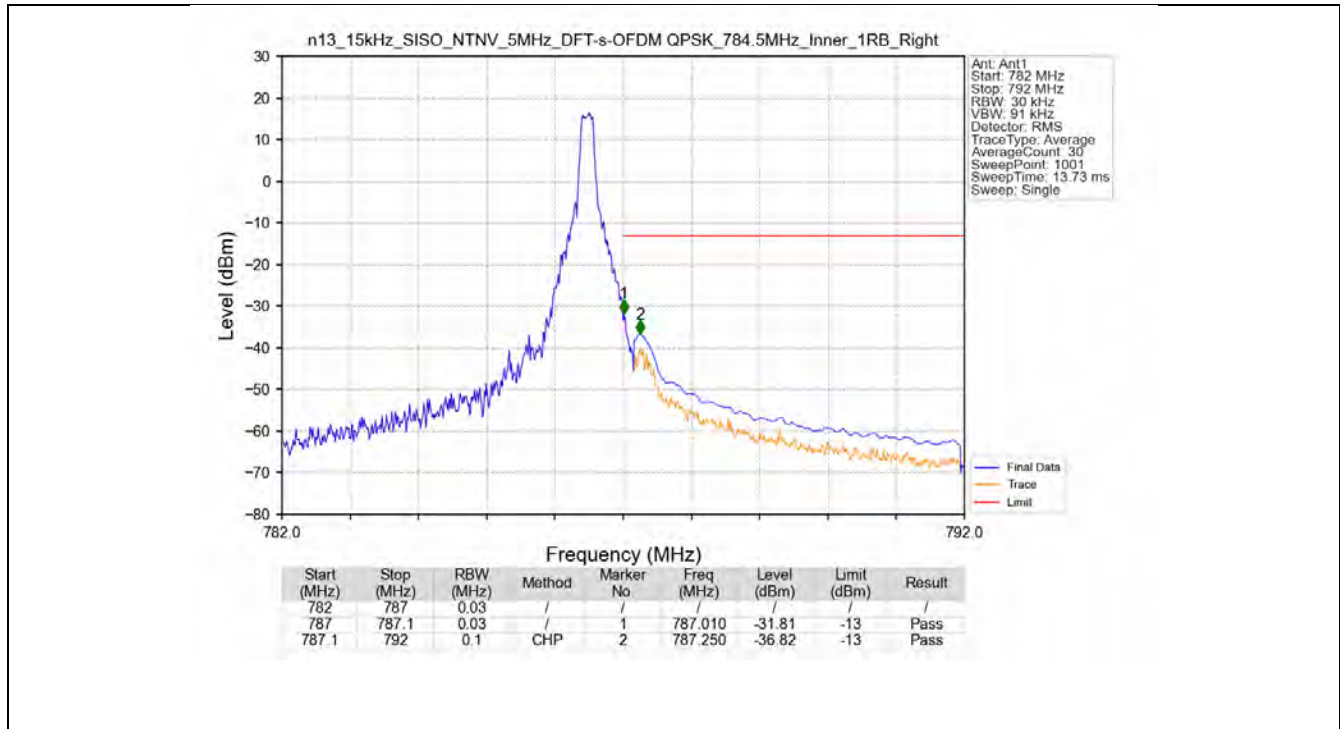


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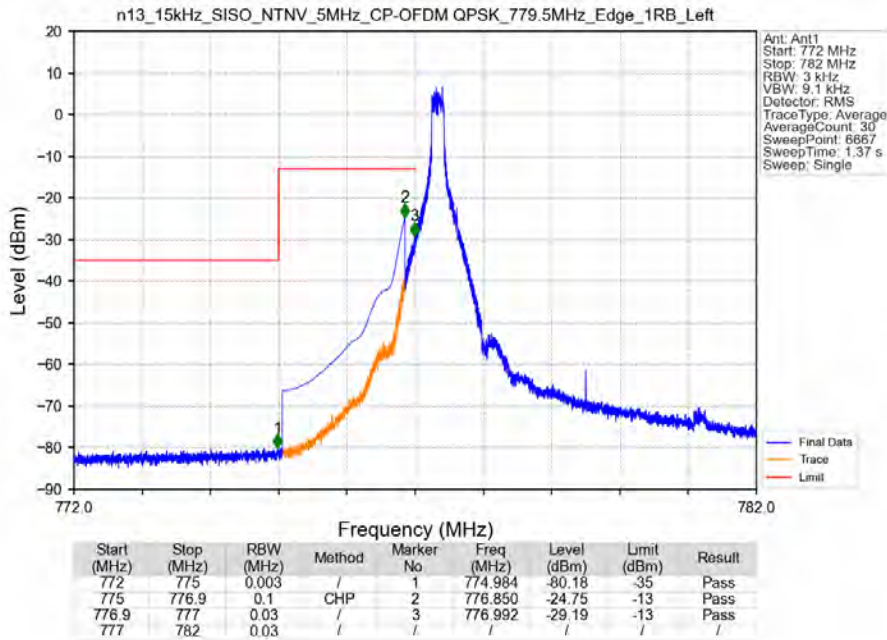
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Report No.: SZCR240100038409

Rev.: 01

Page: 164 of 237

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Edge_1RB_Left



n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Edge_1RB_Left



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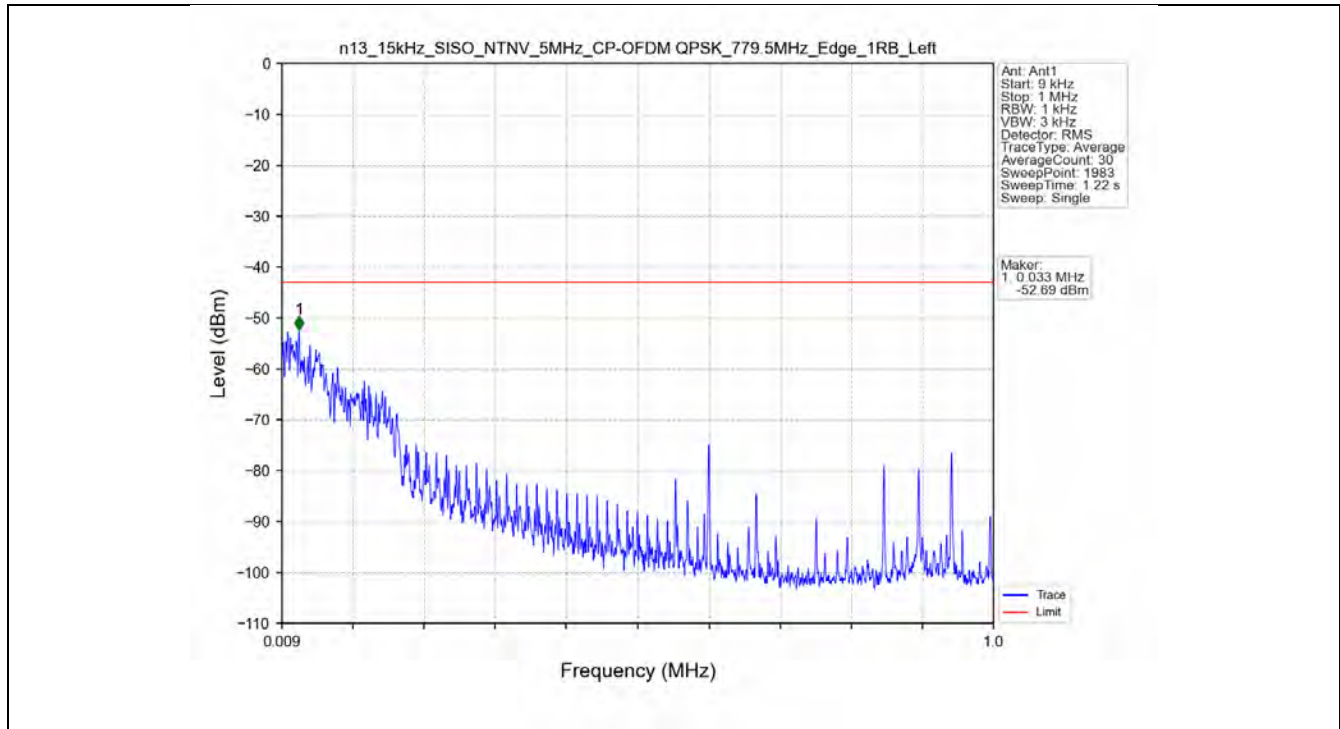


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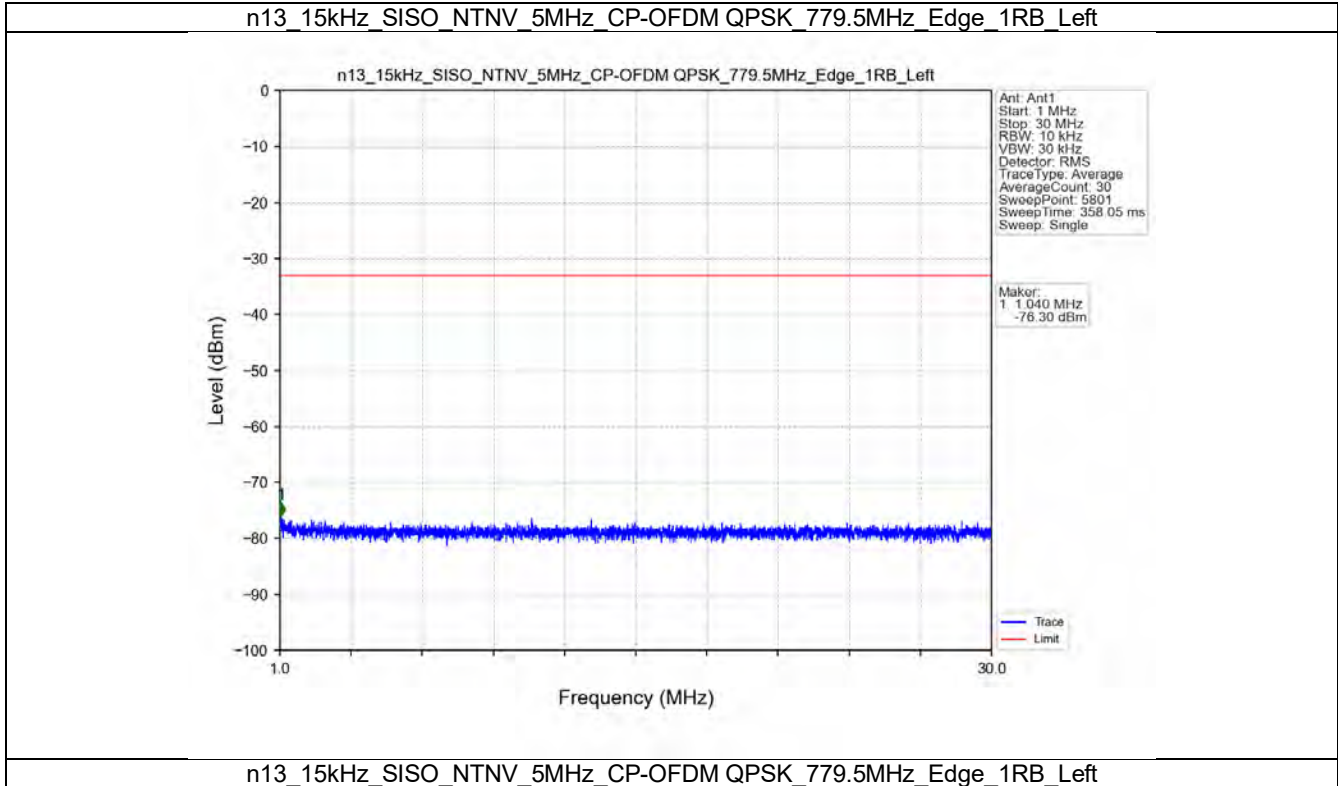


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Report No.: SZCR240100038409

Rev.: 01

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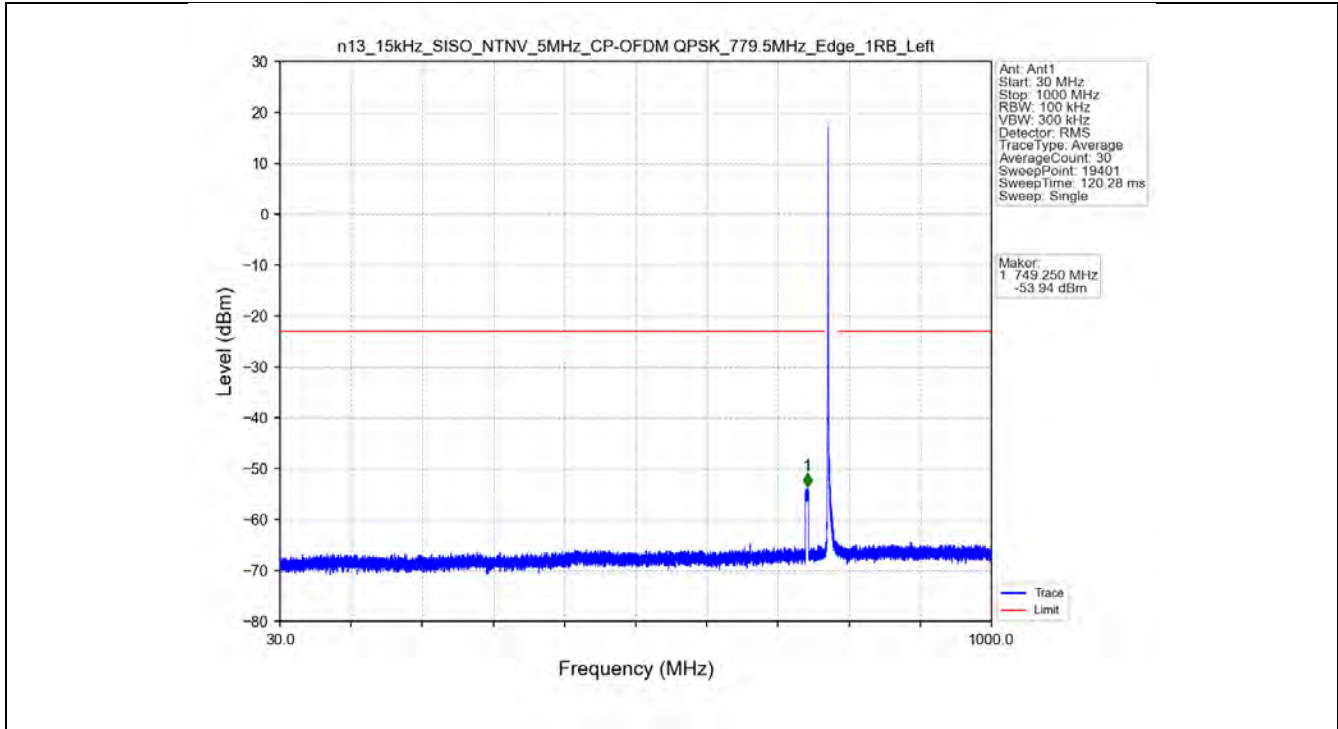


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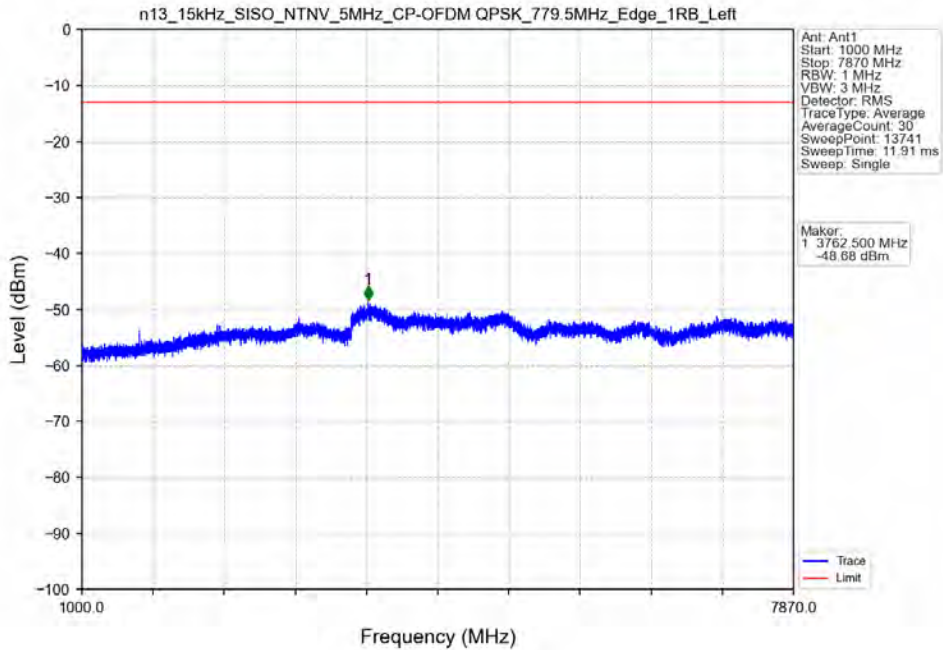
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Report No.: SZCR240100038409

Rev.: 01

Page: 168 of 237

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Outer_Full



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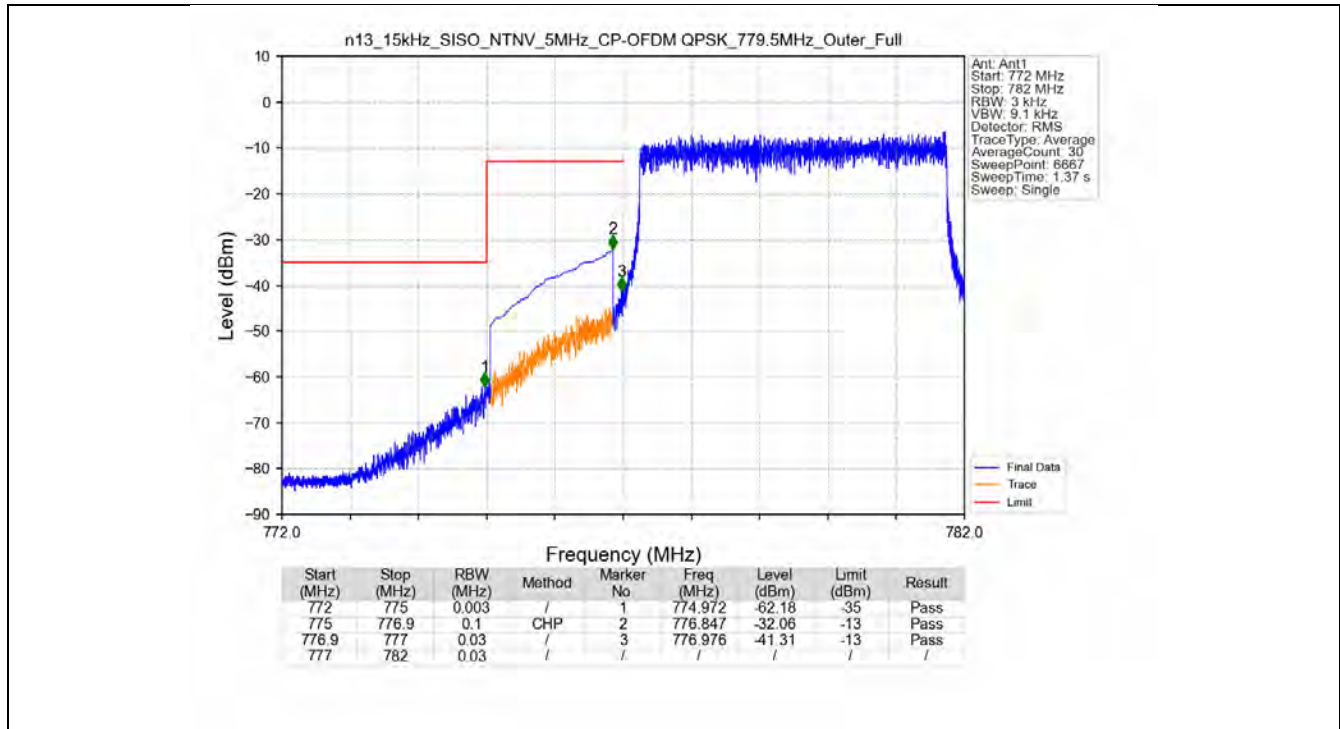


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Report No.: SZCR240100038409

Rev.: 01

Page: 169 of 237



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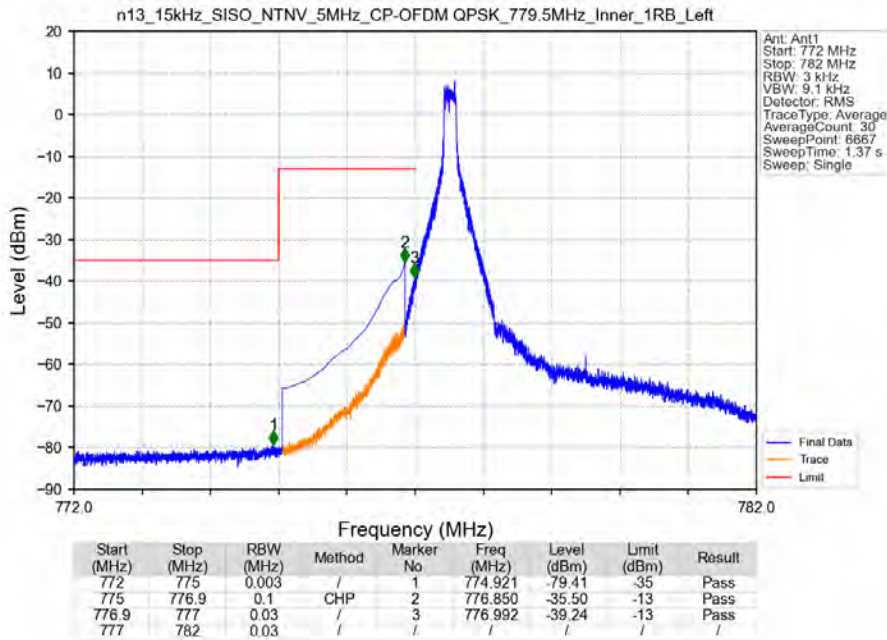
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Report No.: SZCR240100038409

Rev.: 01

Page: 170 of 237

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Inner_1RB_Left



n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_782MHz_Edge_1RB_Left



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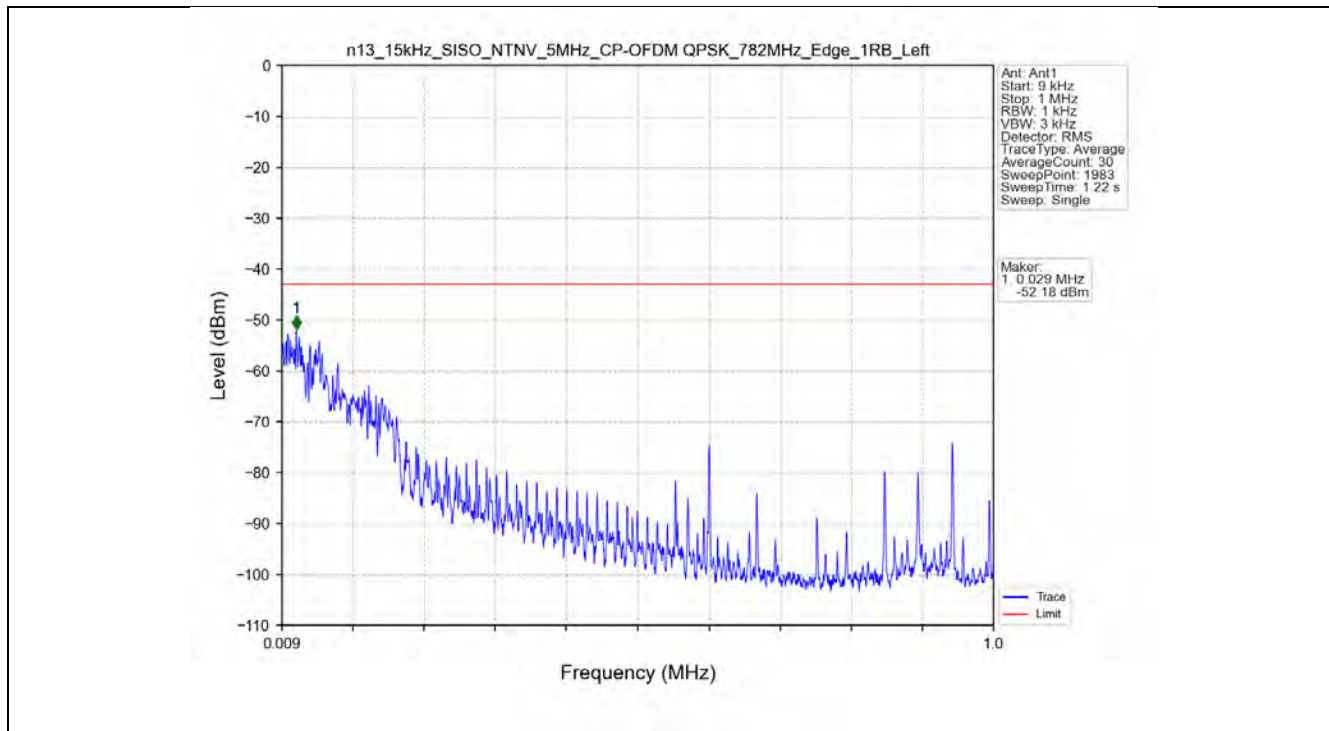
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Report No.: SZCR240100038409
Rev.: 01
Page: 171 of 237



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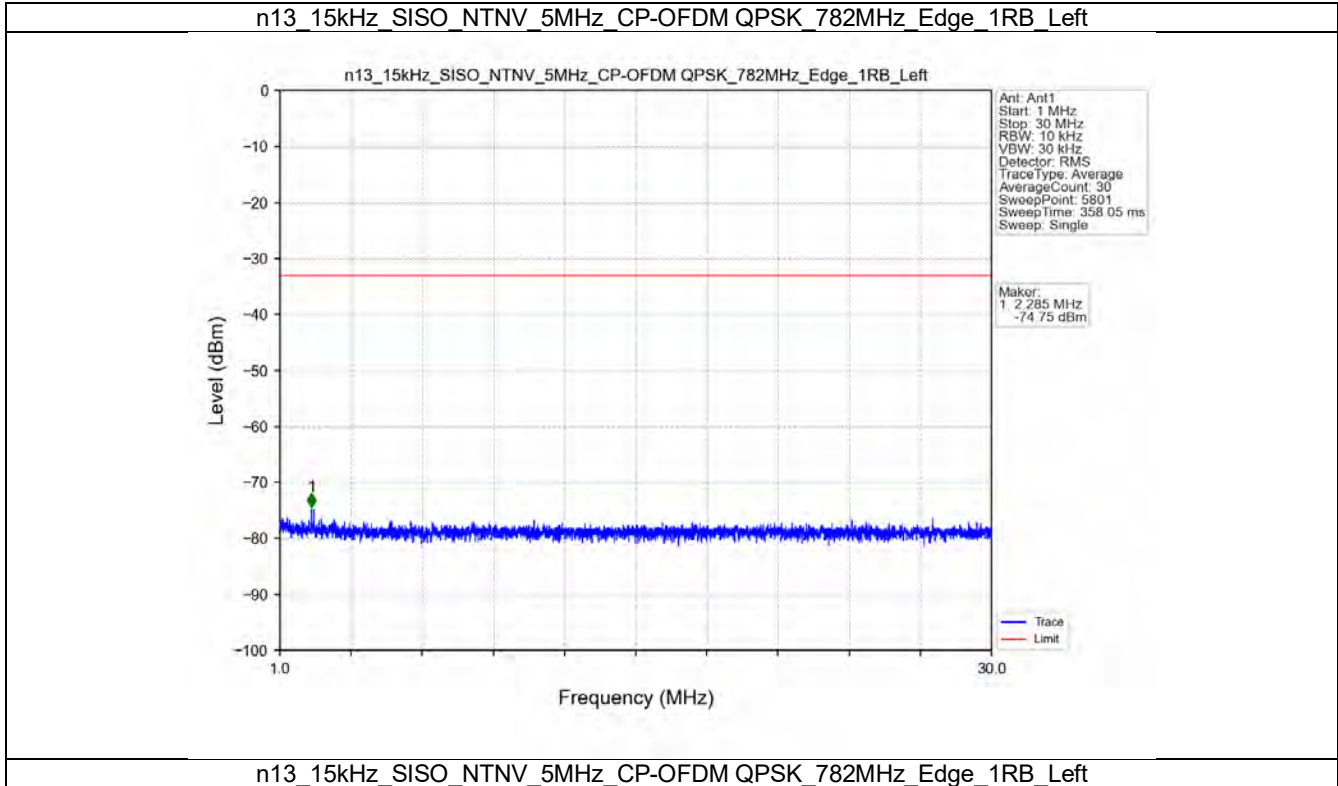


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Report No.: SZCR240100038409

Rev.: 01

Page: 172 of 237



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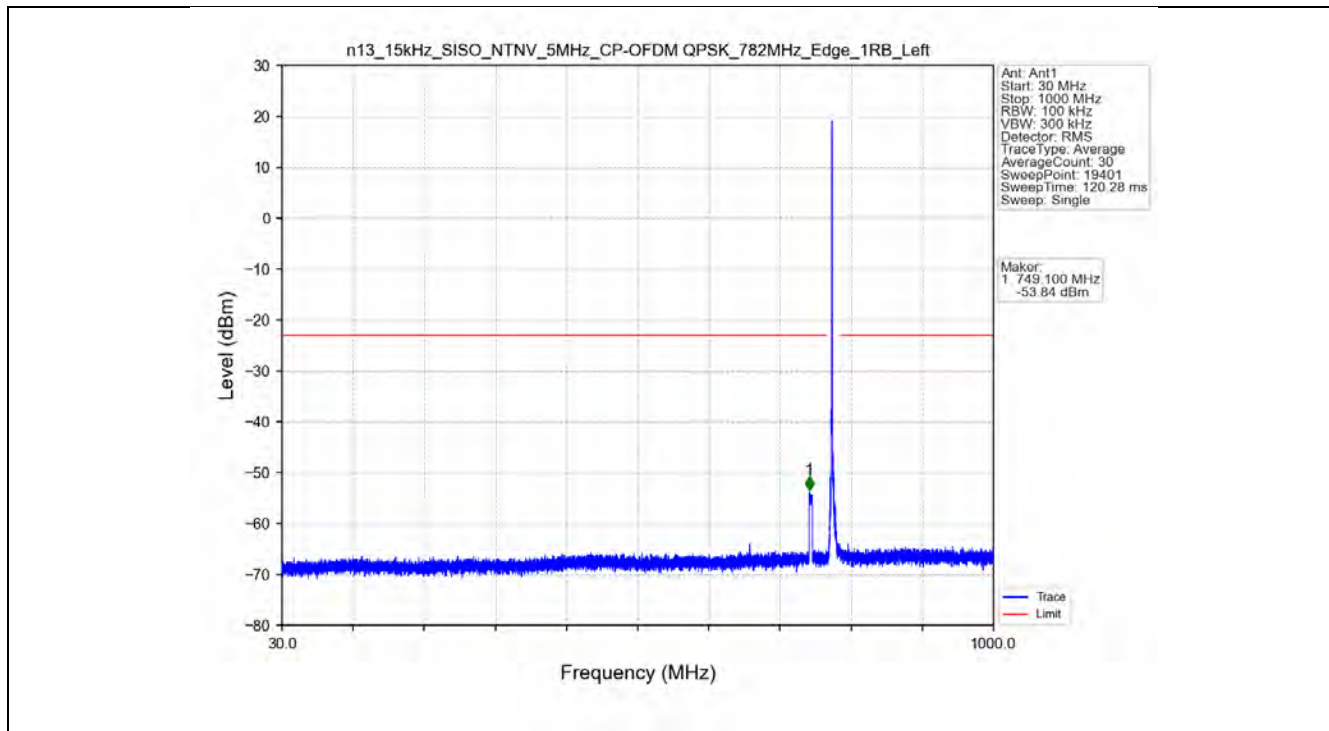
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Report No.: SZCR240100038409
Rev.: 01
Page: 173 of 237



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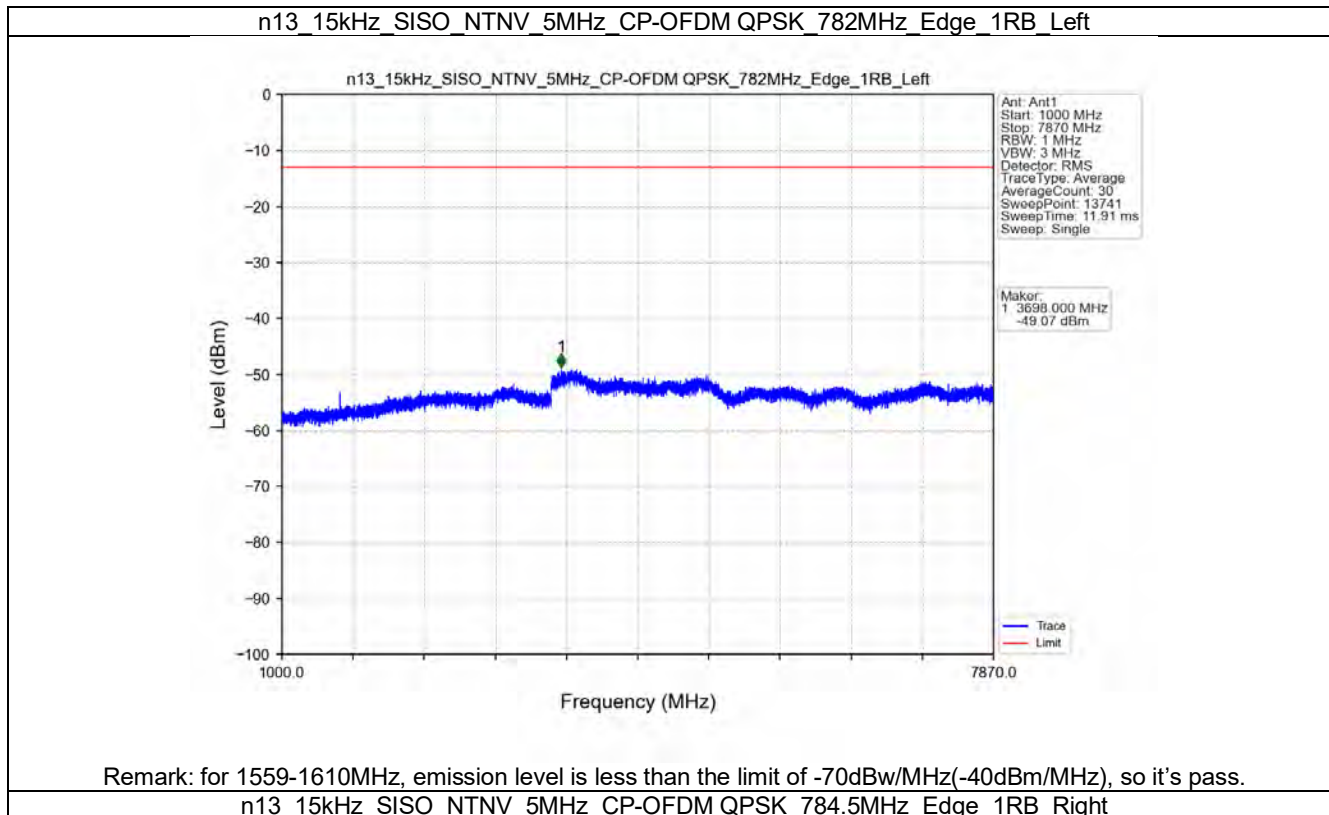
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Rev.: 01
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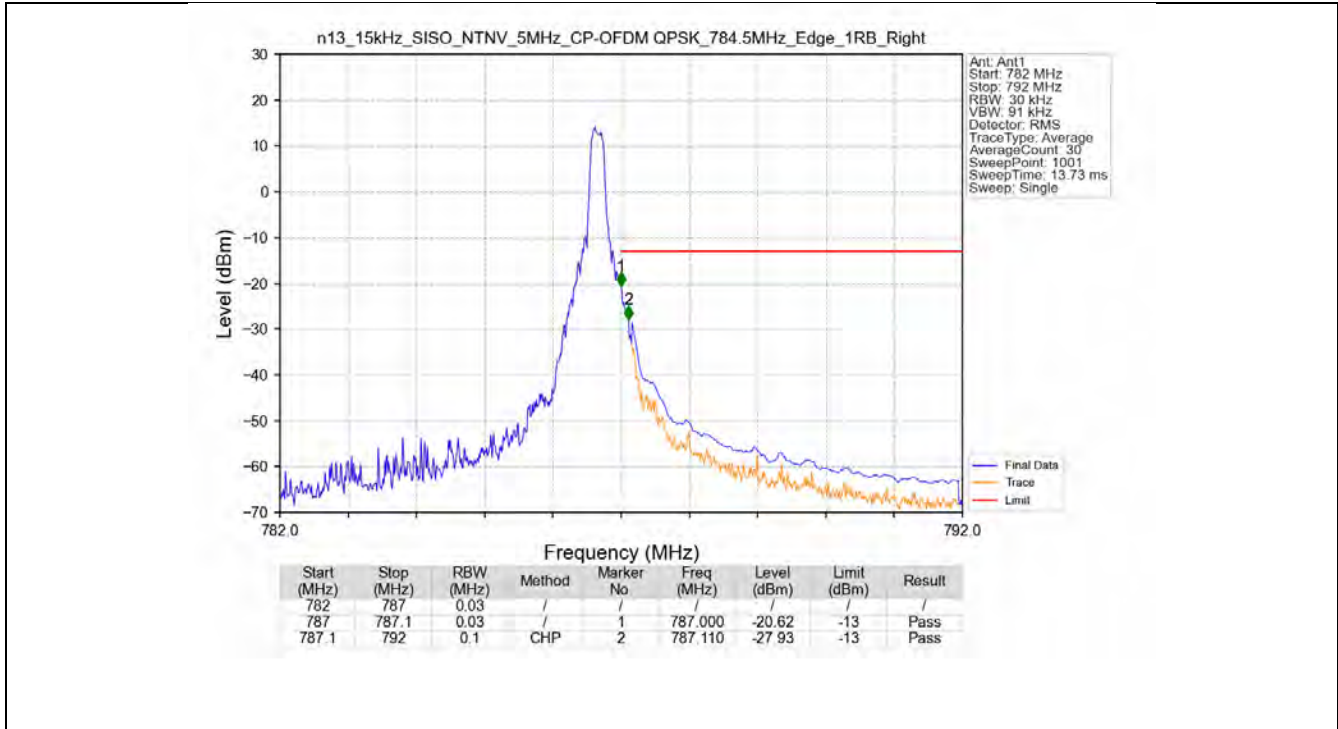


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Report No.: SZCR240100038409

Rev.: 01

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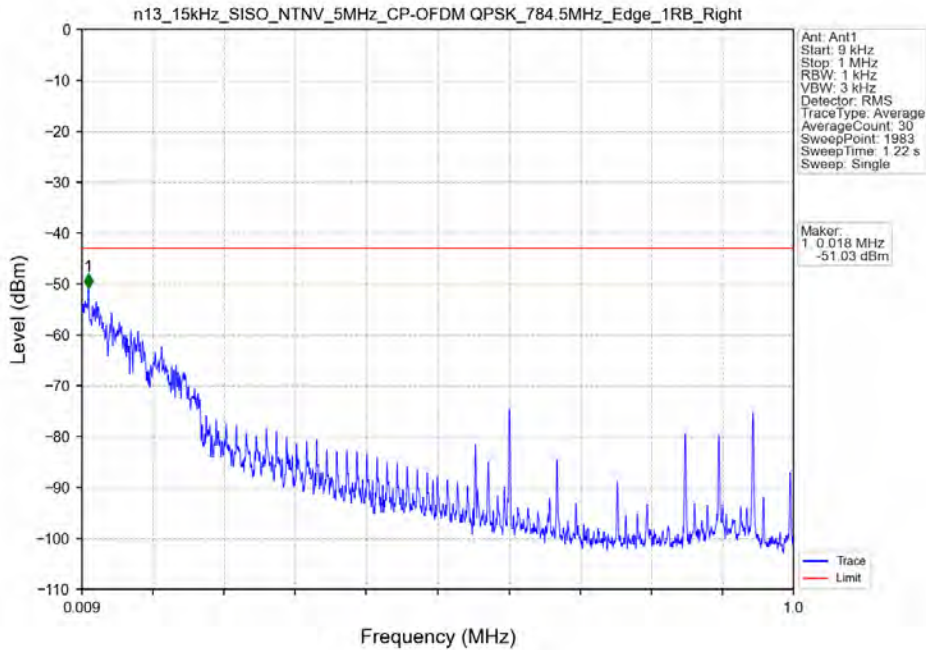
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Report No.: SZCR240100038409

Rev.: 01

Page: 176 of 237

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_784.5MHz_Edge_1RB_Right



n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_784.5MHz_Edge_1RB_Right



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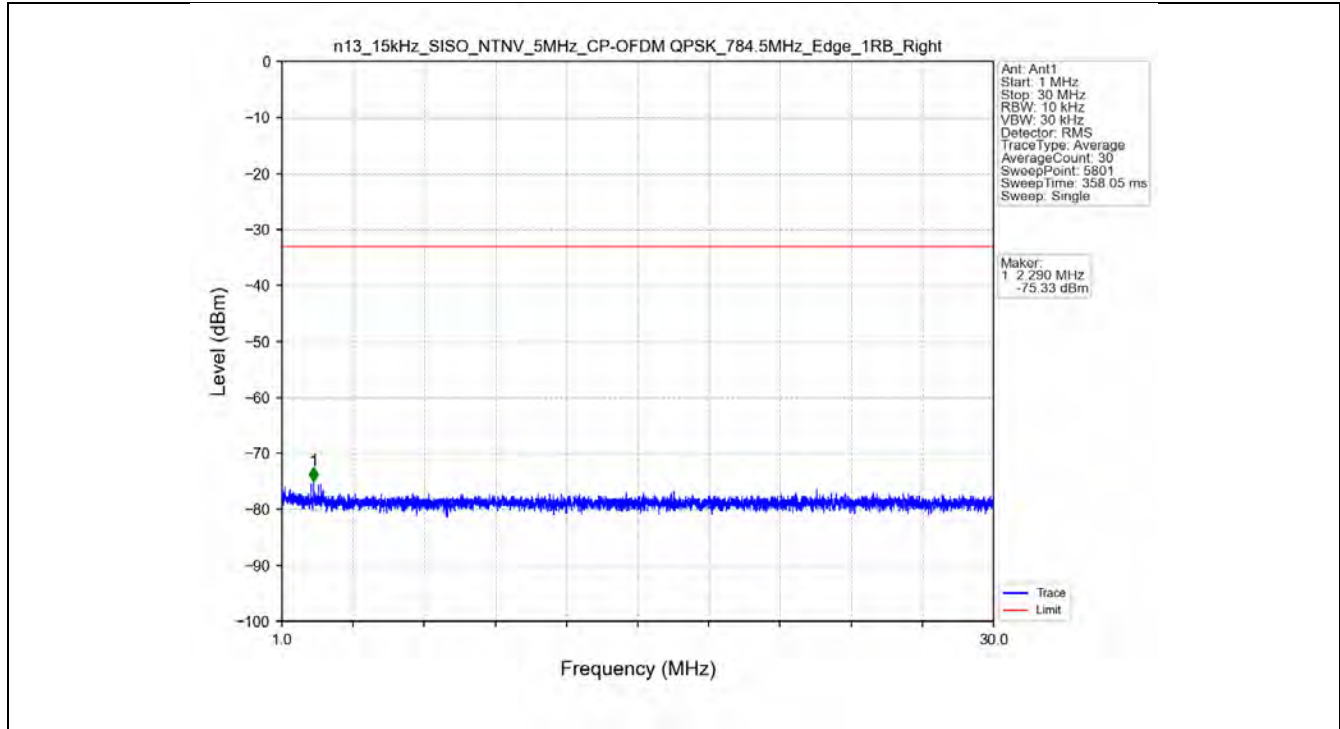


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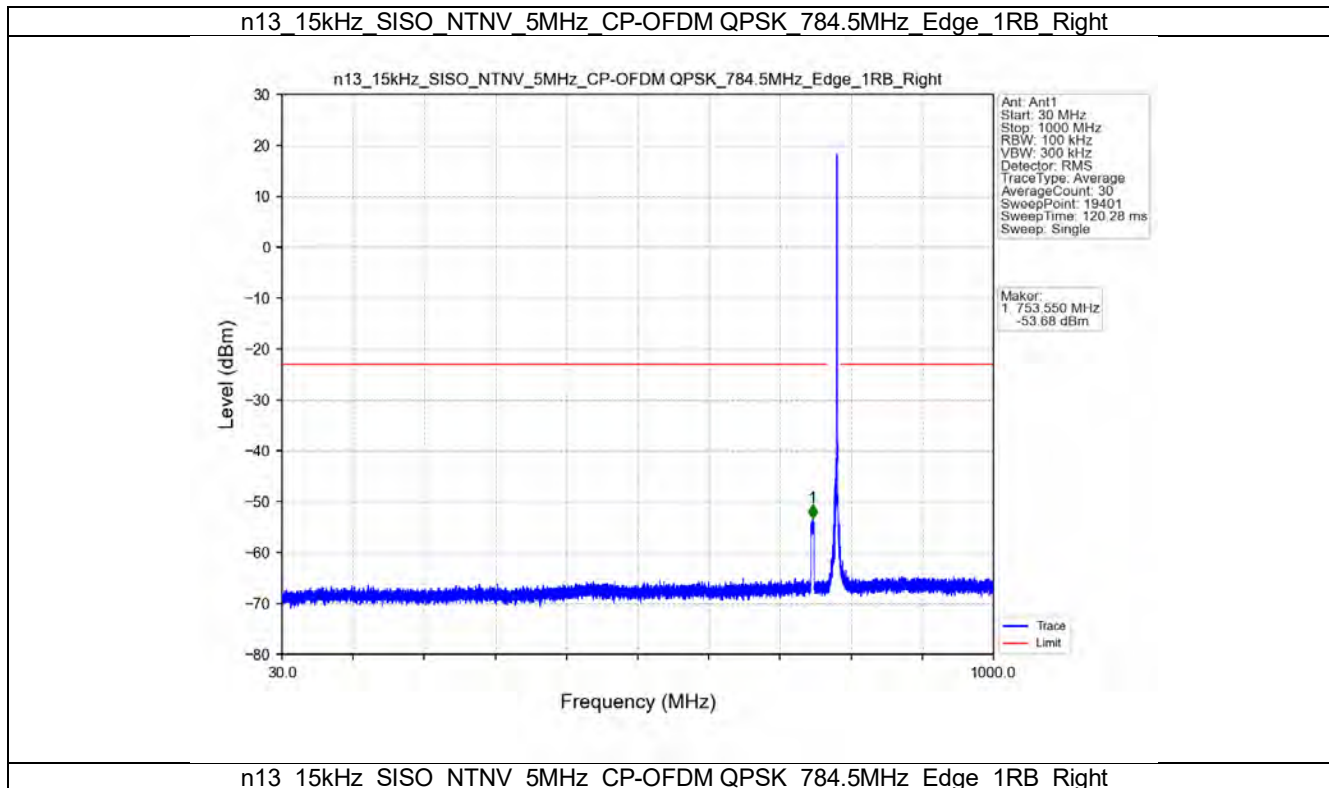
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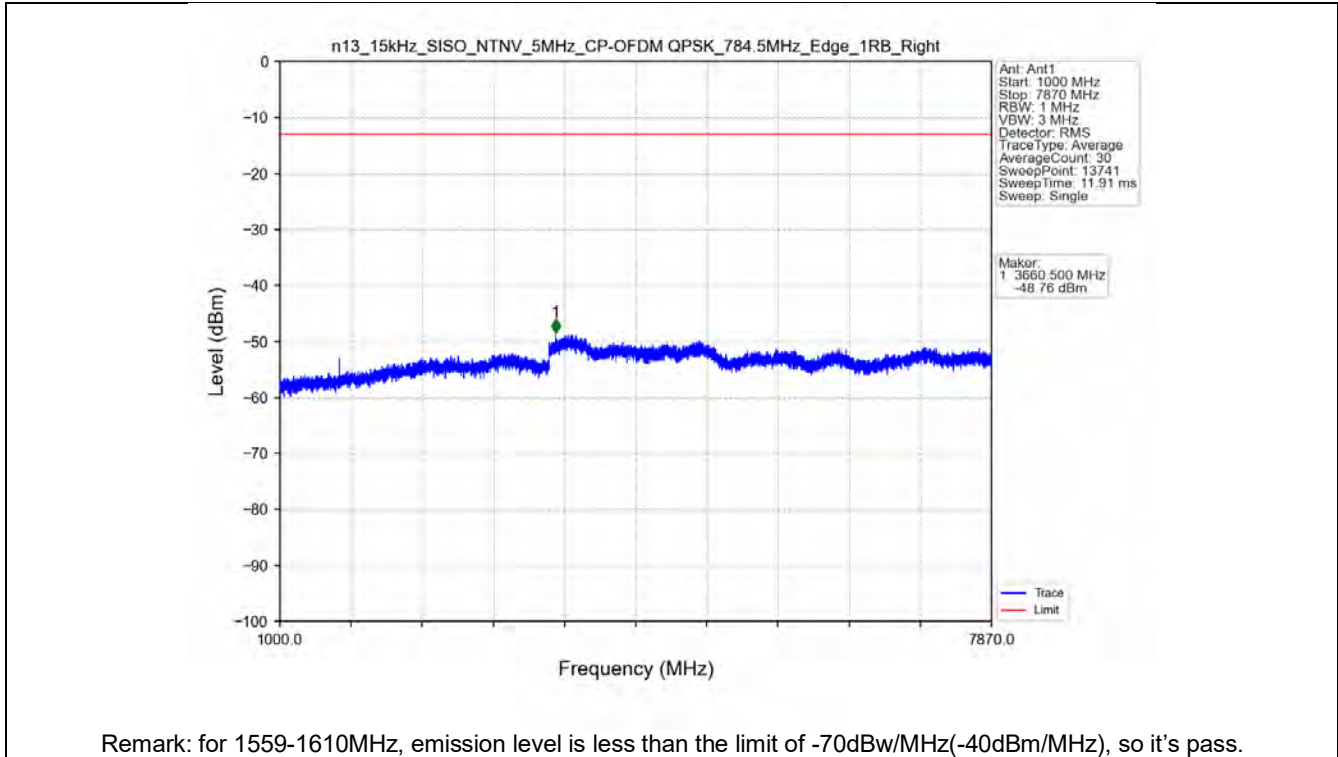


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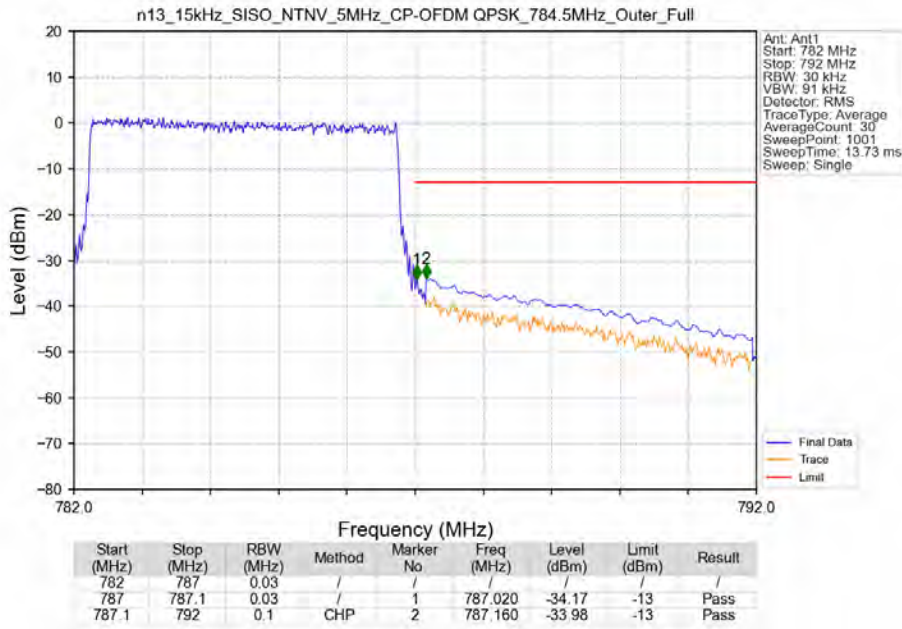
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Report No.: SZCR240100038409

Rev.: 01

Page: 180 of 237

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_784.5MHz_Outer_Full



n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_784.5MHz_Inner_1RB_Right



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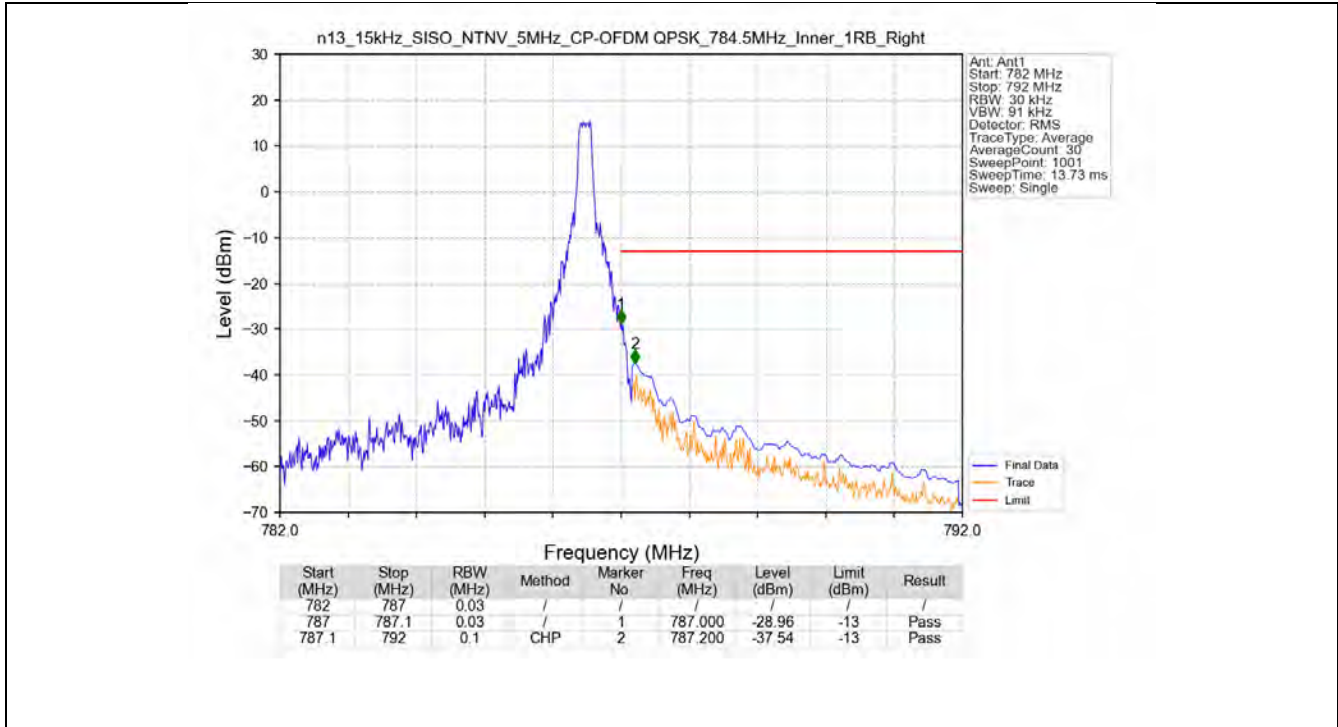


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Report No.: SZCR240100038409

Rev.: 01

Page: 182 of 237

5.2 15k_SISO_10MHz_NTNV

5.2.1 Test Result

5G NR n13 SCS=15kHz SISO 10MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	782	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	782	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	782	Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	782	Inner_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	782	Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
	782	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass



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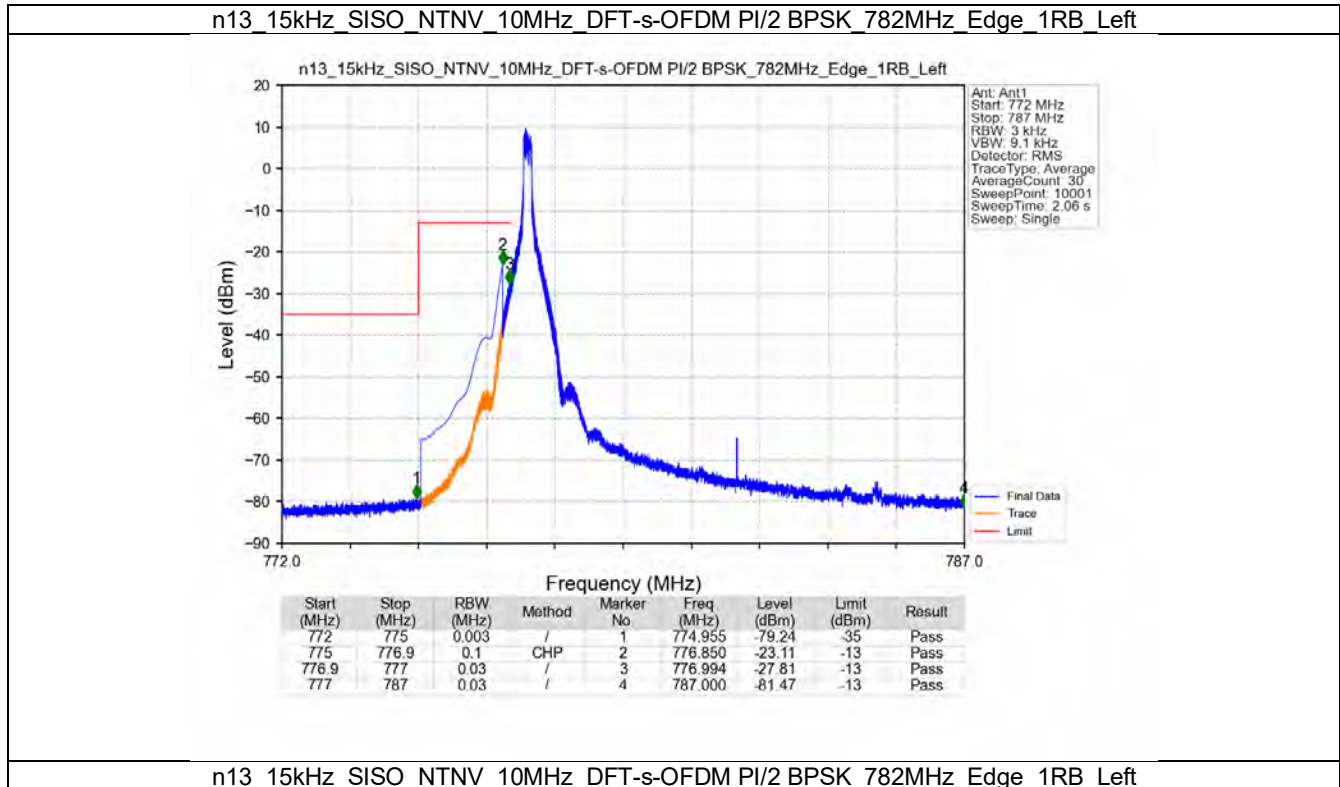
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Report No.: SZCR240100038409

Rev.: 01

Page: 183 of 237

5.2.2 Test Graph



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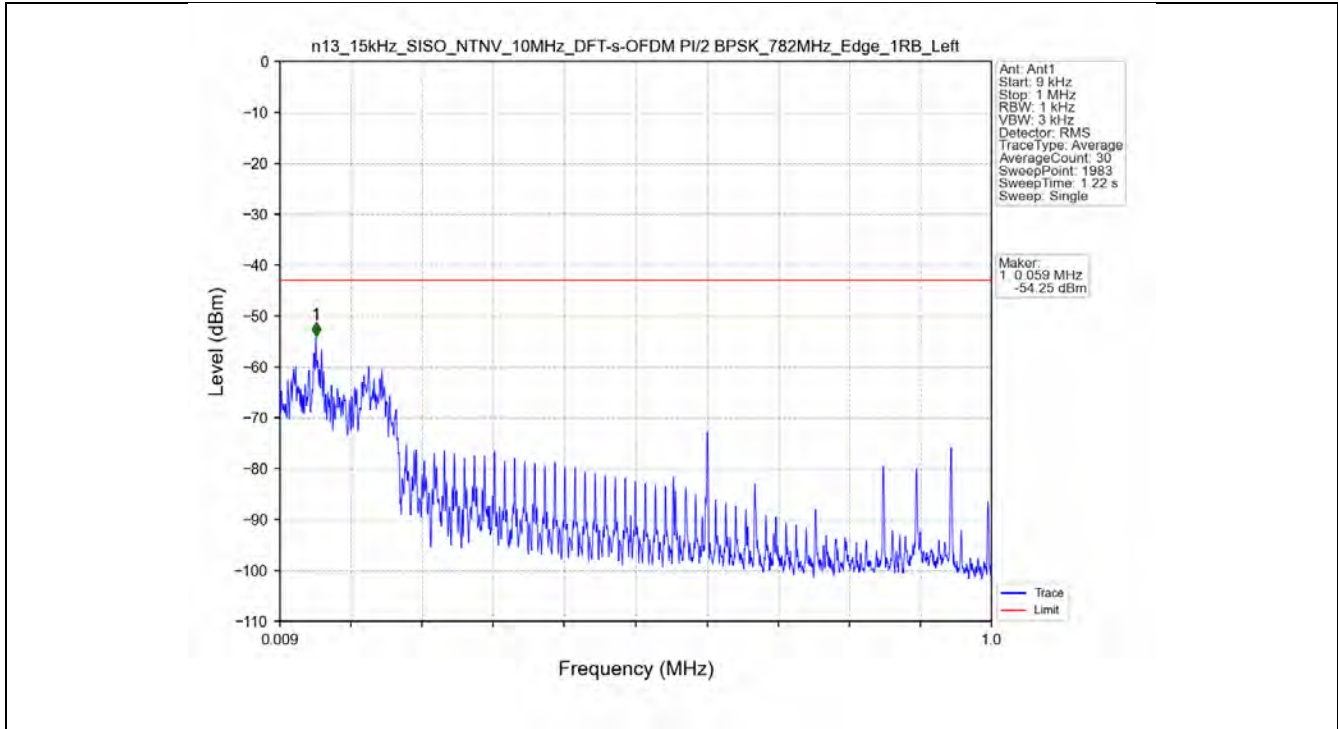


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Report No.: SZCR240100038409

Rev.: 01

Page: 184 of 237



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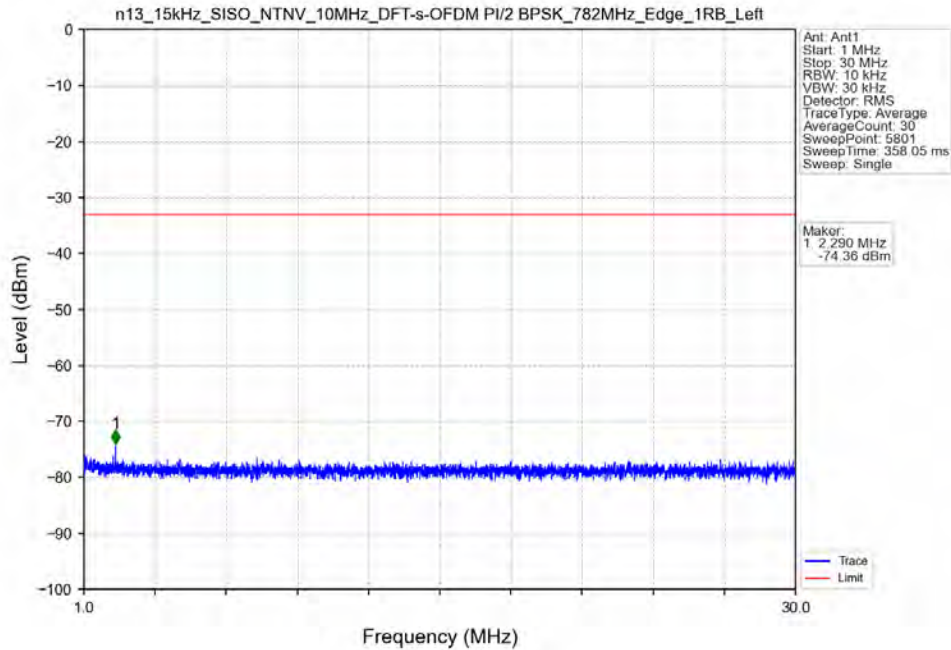
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Report No.: SZCR240100038409

Rev.: 01

Page: 185 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Left



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Left



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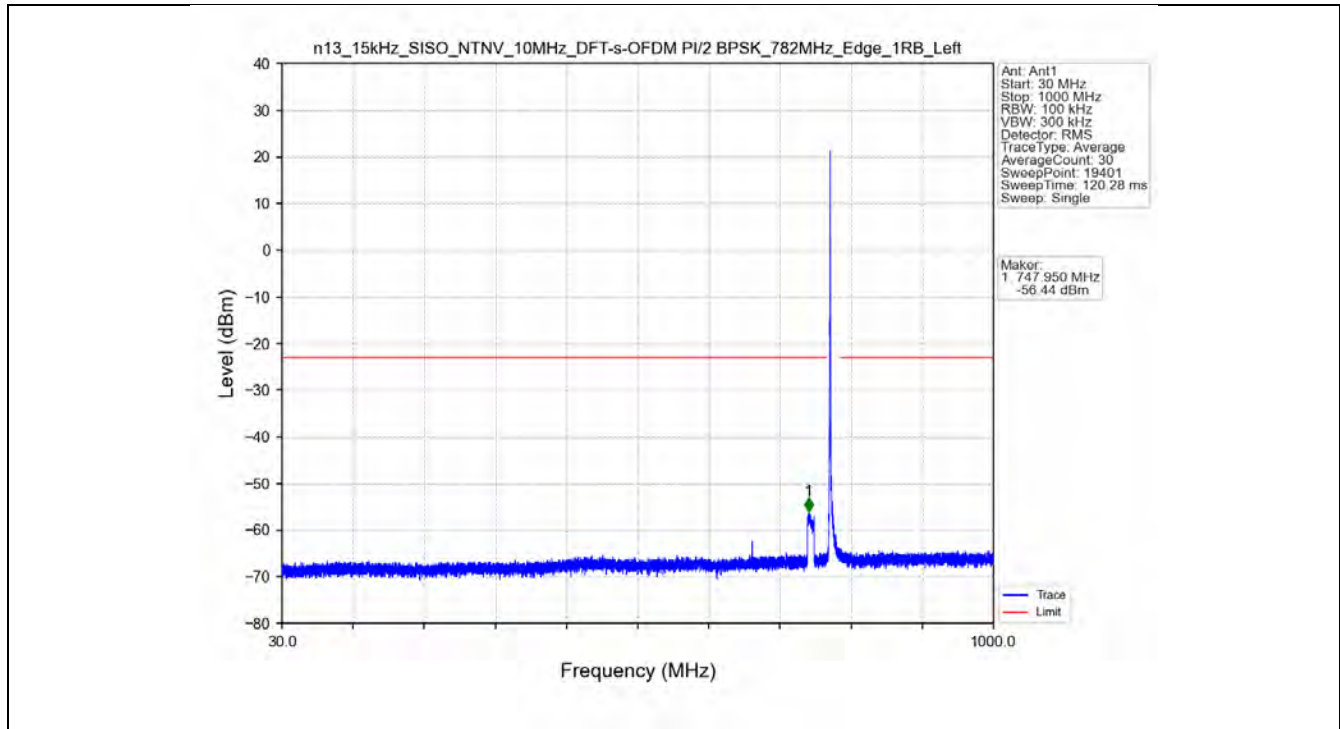


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Report No.: SZCR240100038409

Rev.: 01

Page: 186 of 237



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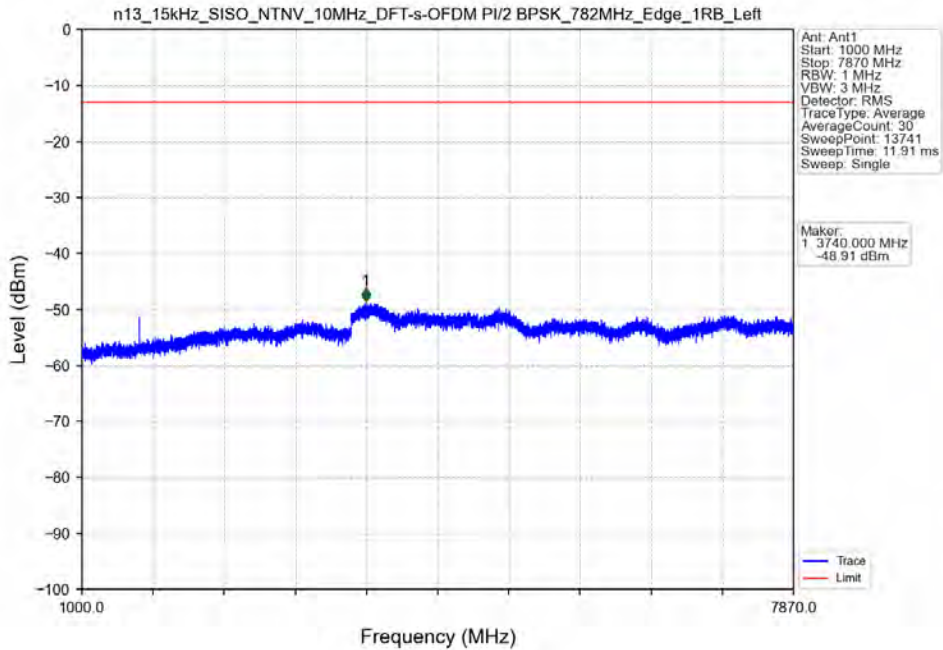
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Report No.: SZCR240100038409

Rev.: 01

Page: 187 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Outer_Full



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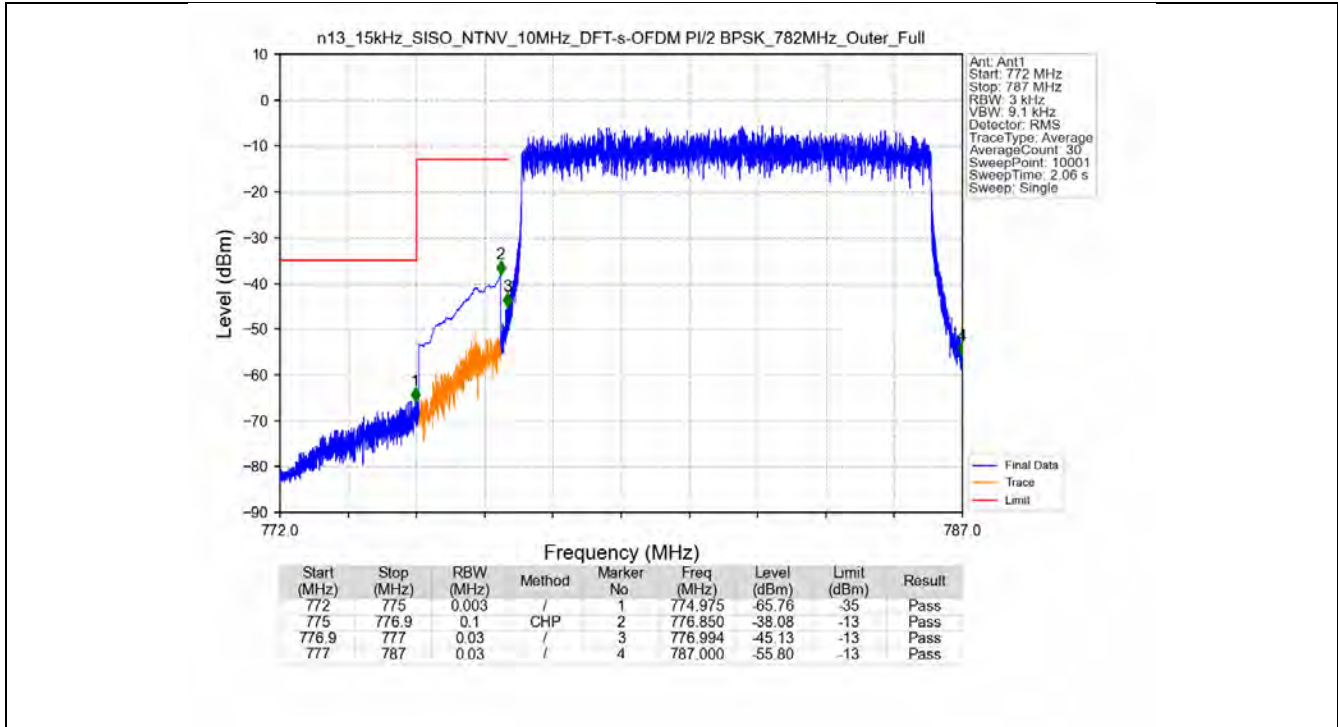


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Report No.: SZCR240100038409

Rev.: 01

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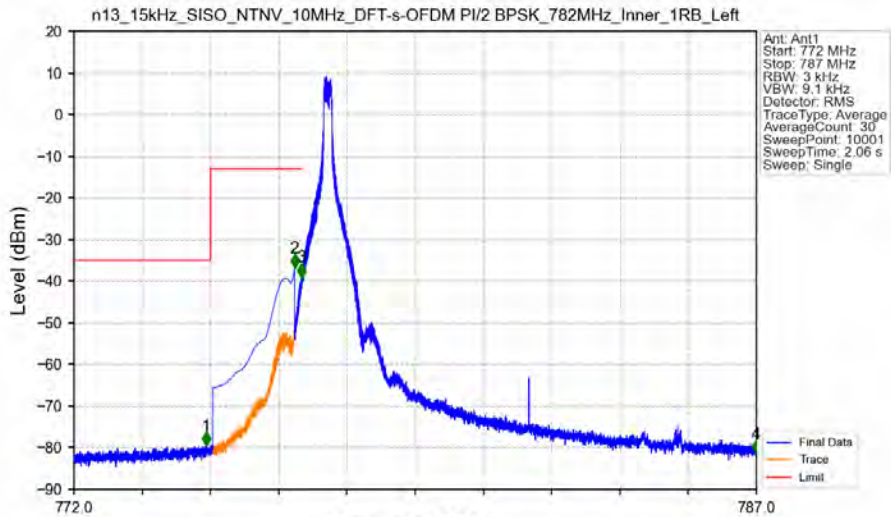
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Report No.: SZCR240100038409

Rev.: 01

Page: 189 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.003	/	1	774.909	-79.46	-35	Pass
775	776.9	0.1	CHP	2	776.850	-36.82	-13	Pass
776.9	777	0.03	/	3	776.994	-39.10	-13	Pass
777	787	0.03	/	4	787.000	-81.54	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Left



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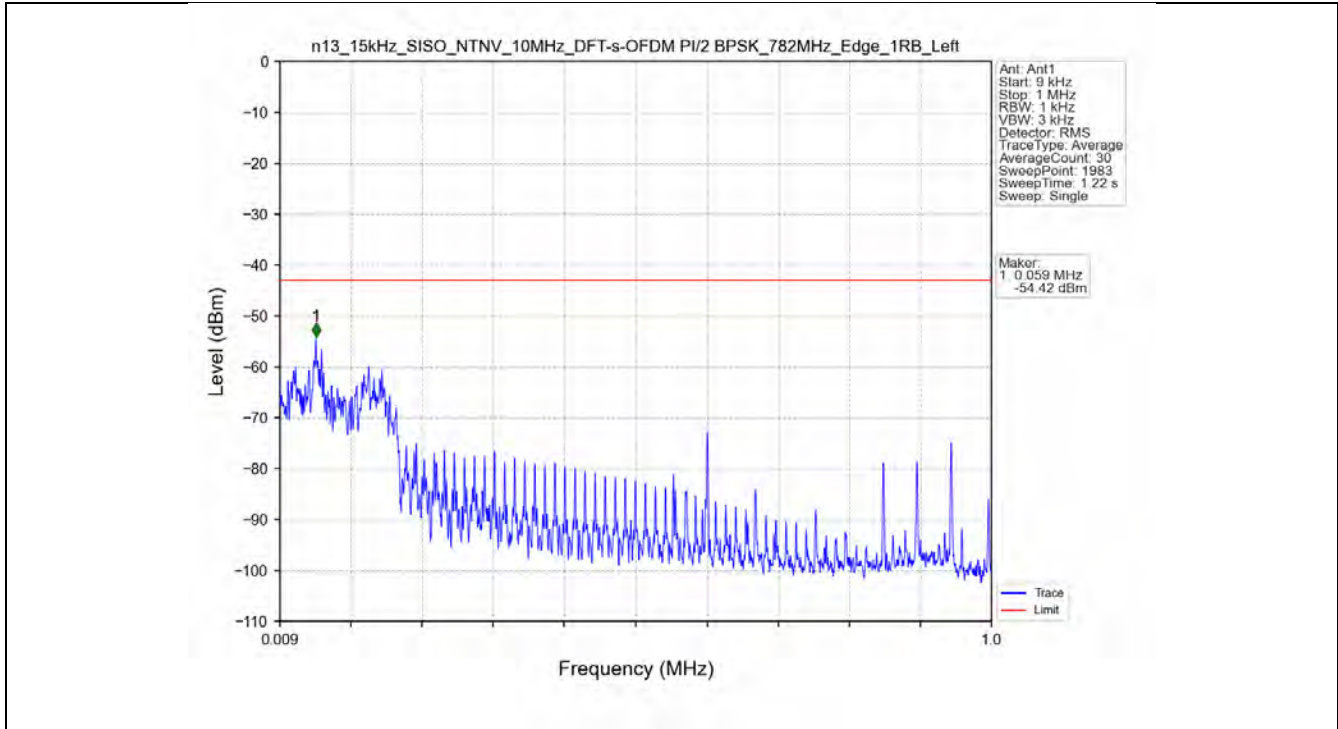


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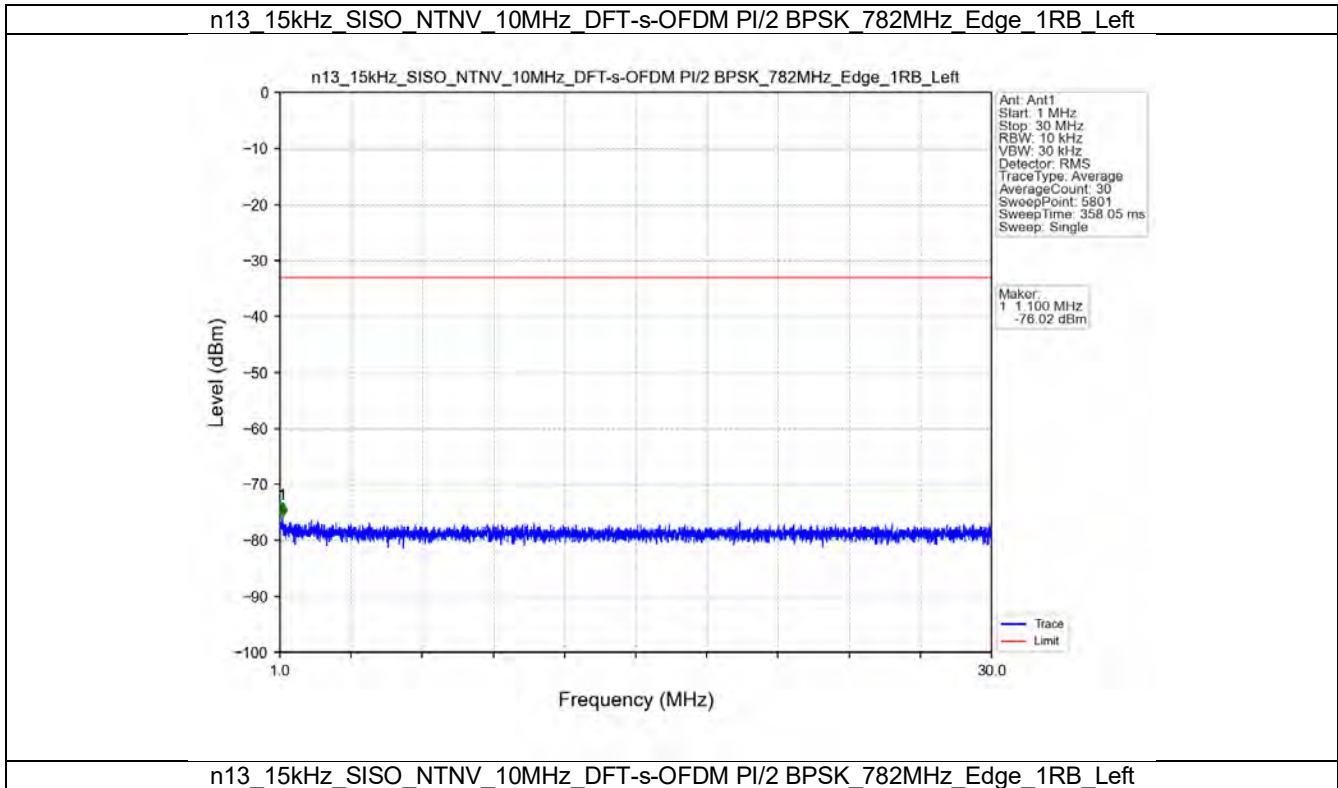


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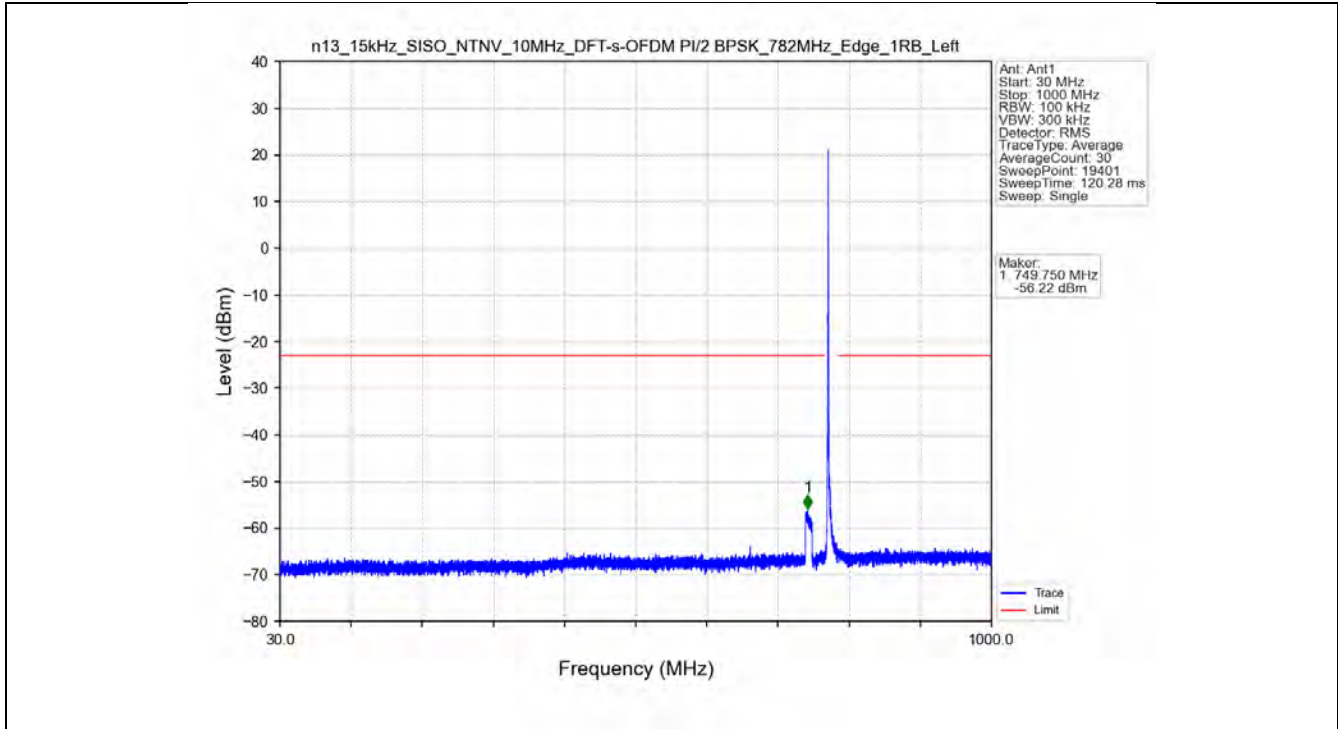


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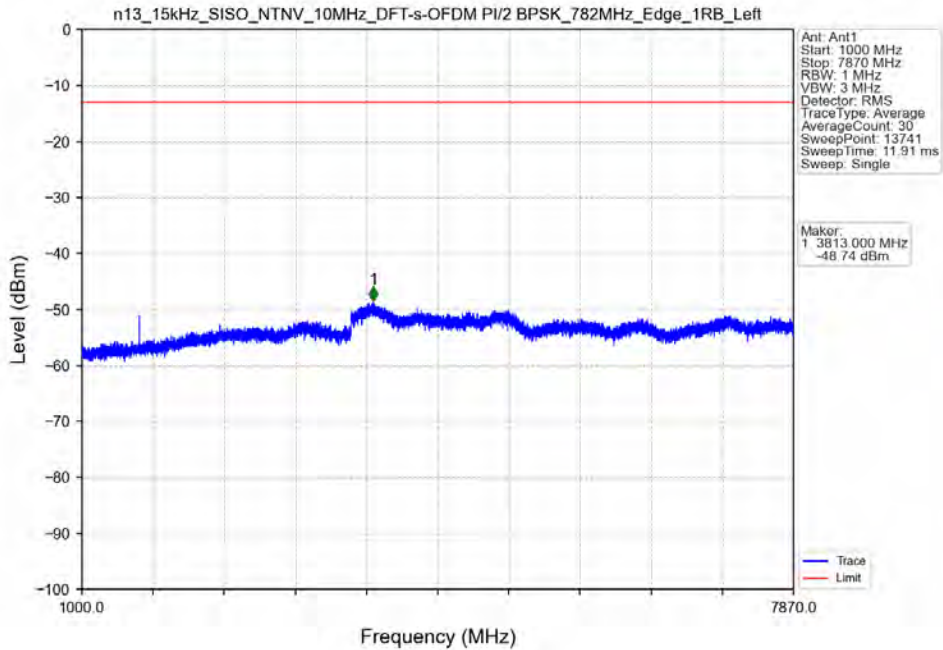
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Report No.: SZCR240100038409

Rev.: 01

Page: 193 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Right



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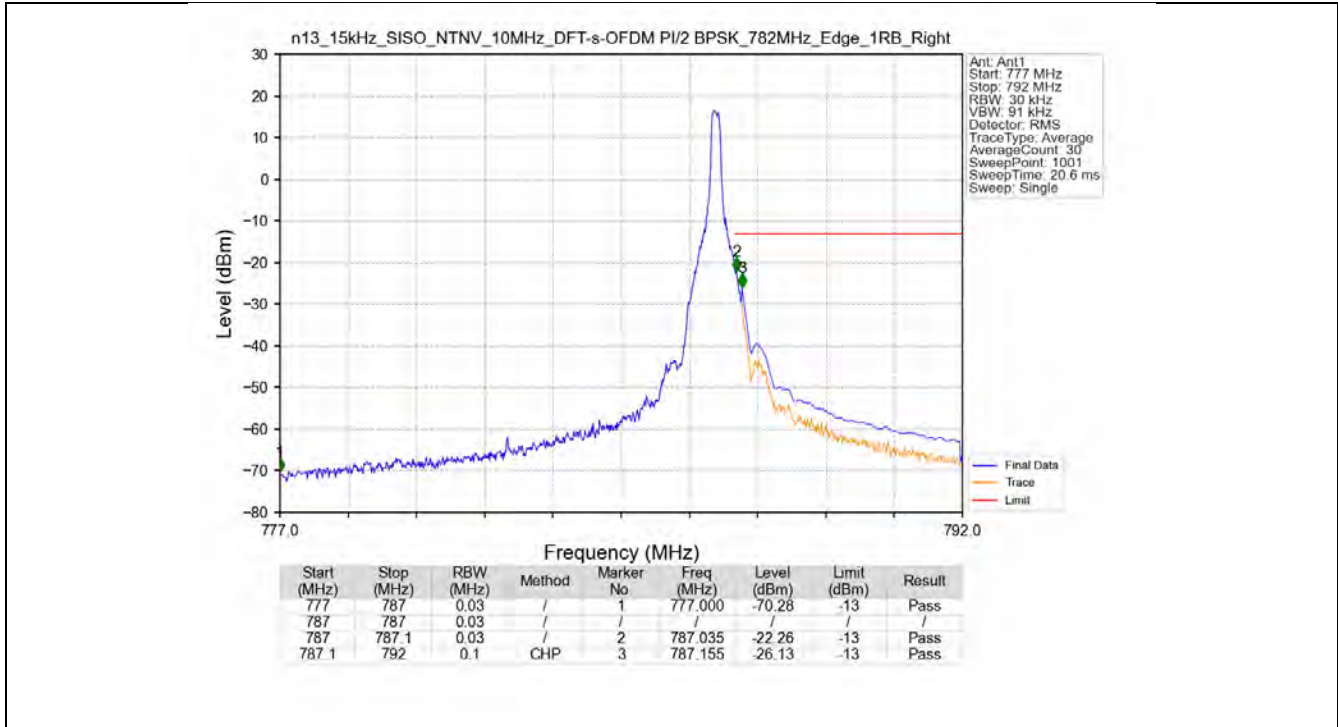


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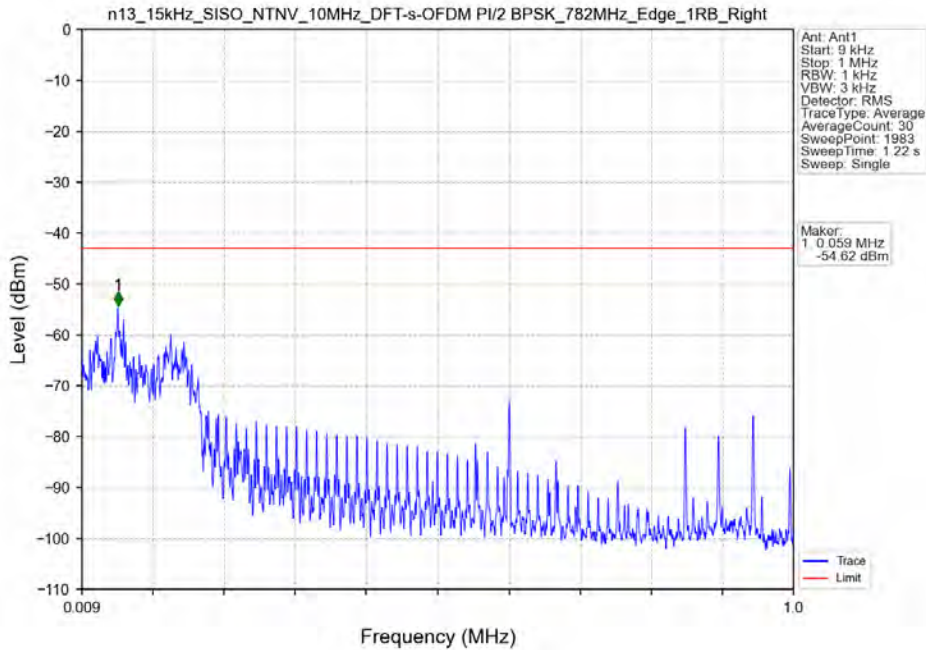
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Report No.: SZCR240100038409

Rev.: 01

Page: 195 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Right



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Right



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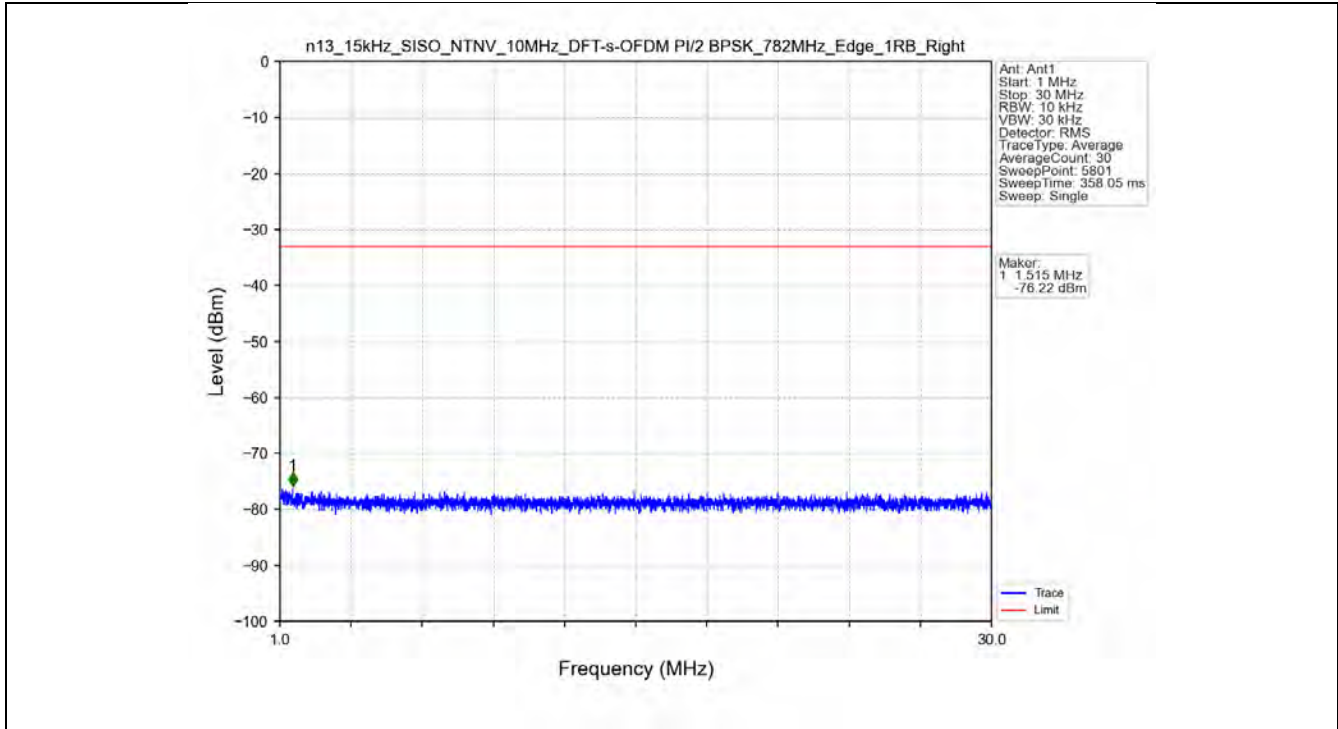


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Report No.: SZCR240100038409

Rev.: 01

Page: 196 of 237



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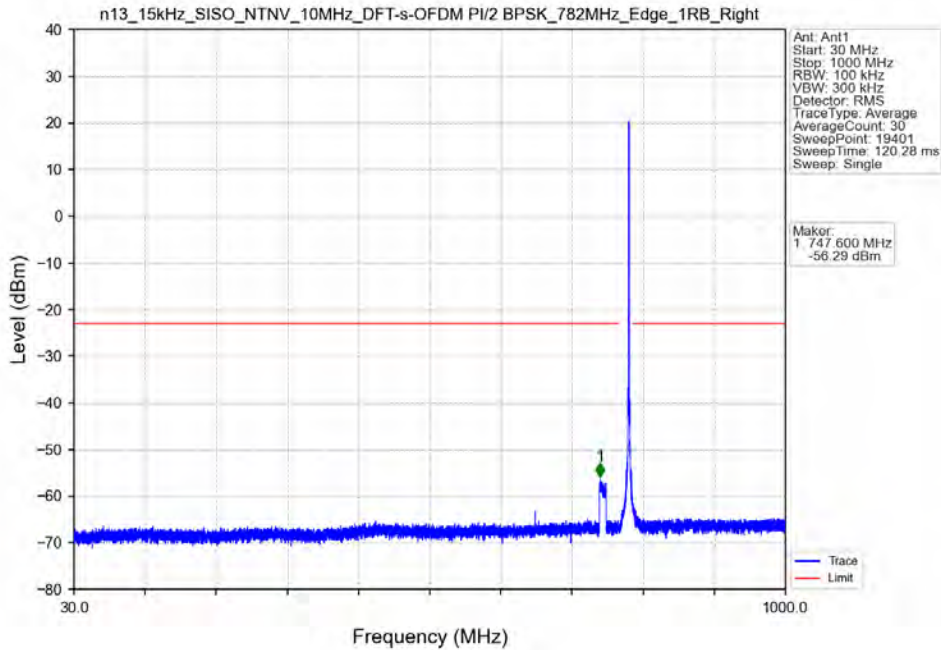
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 197 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Right



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Edge_1RB_Right



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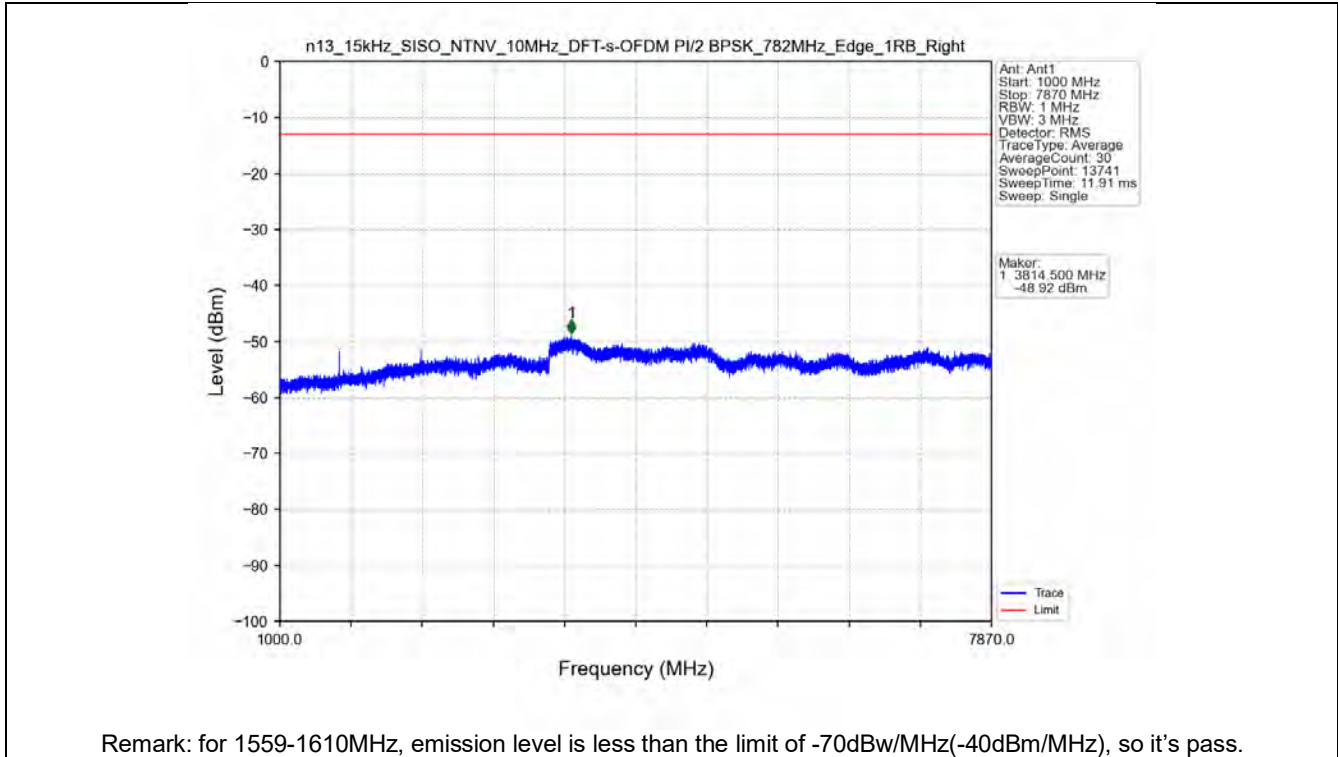


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Report No.: SZCR240100038409

Rev.: 01

Page: 198 of 237



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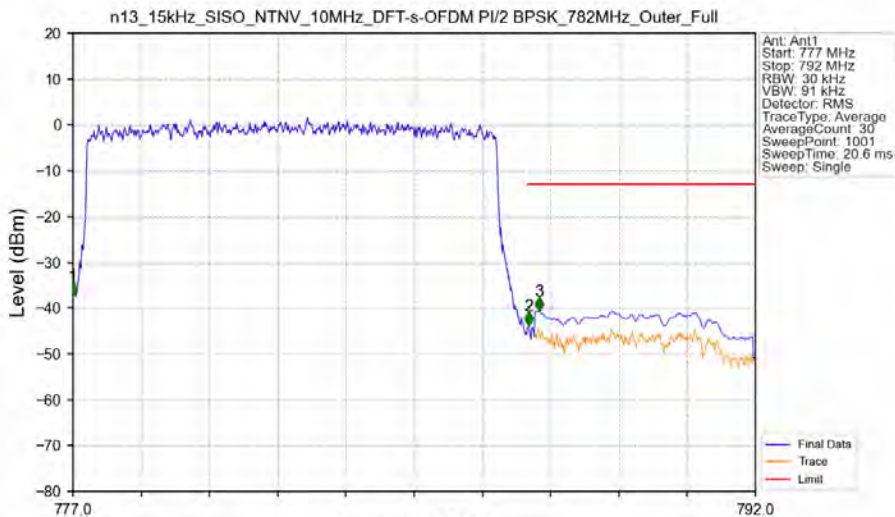
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Report No.: SZCR240100038409
 Rev.: 01
 Page: 199 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
777	787	0.03	/	1	777.000	-37.39	-13	Pass
787	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	2	787.020	-43.88	-13	Pass
787.1	792	0.1	CHP	3	787.245	-40.64	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_782MHz_Inner_1RB_Right



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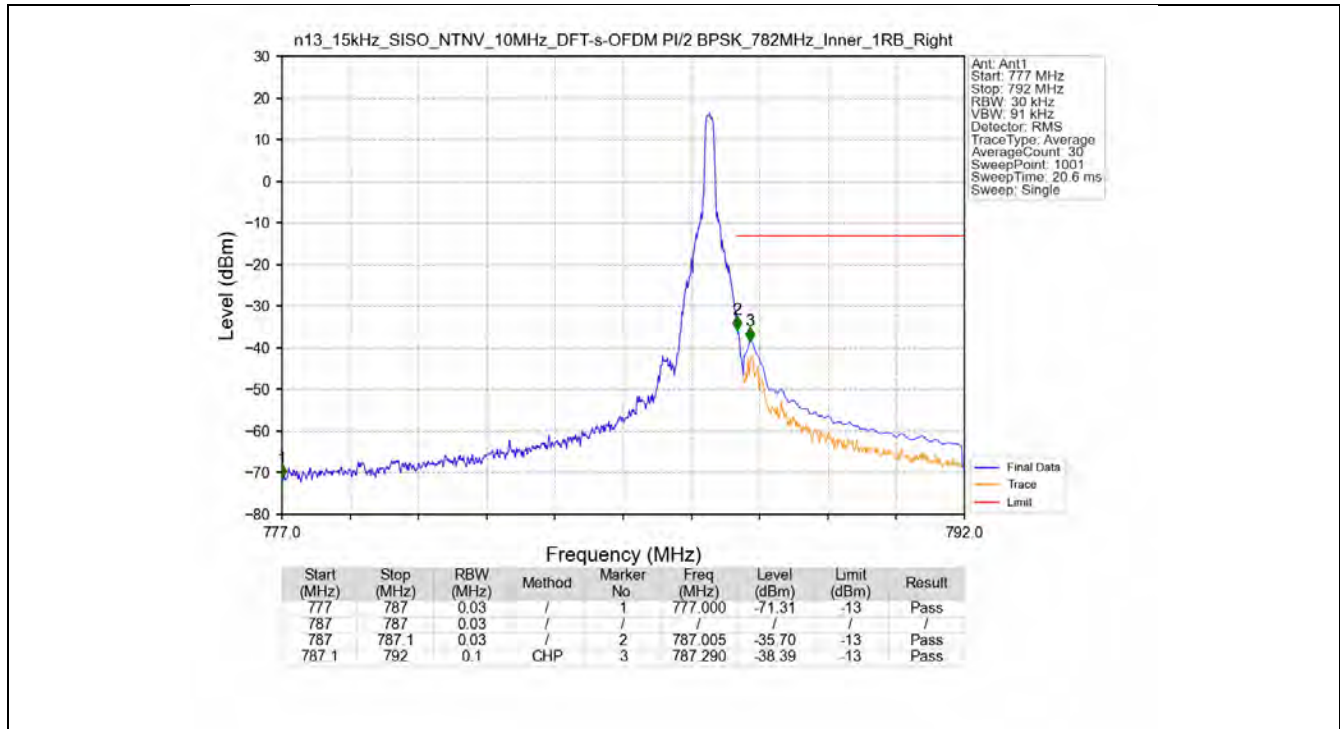


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Rev.: 01

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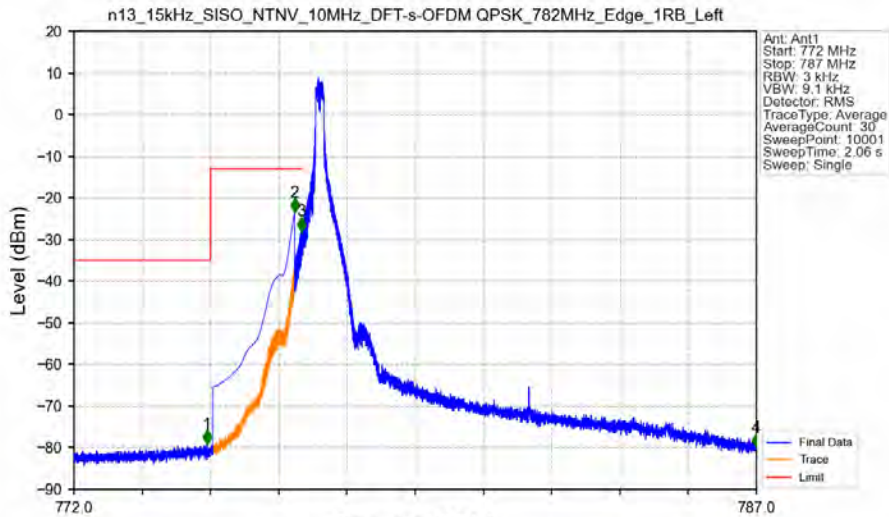
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Report No.: SZCR240100038409

Rev.: 01

Page: 201 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.003	/	1	774.922	-79.20	-35	Pass
775	776.9	0.1	CHP	2	776.850	-23.40	-13	Pass
776.9	777	0.03	/	3	776.992	-28.02	-13	Pass
777	787	0.03	/	4	787.000	-79.85	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



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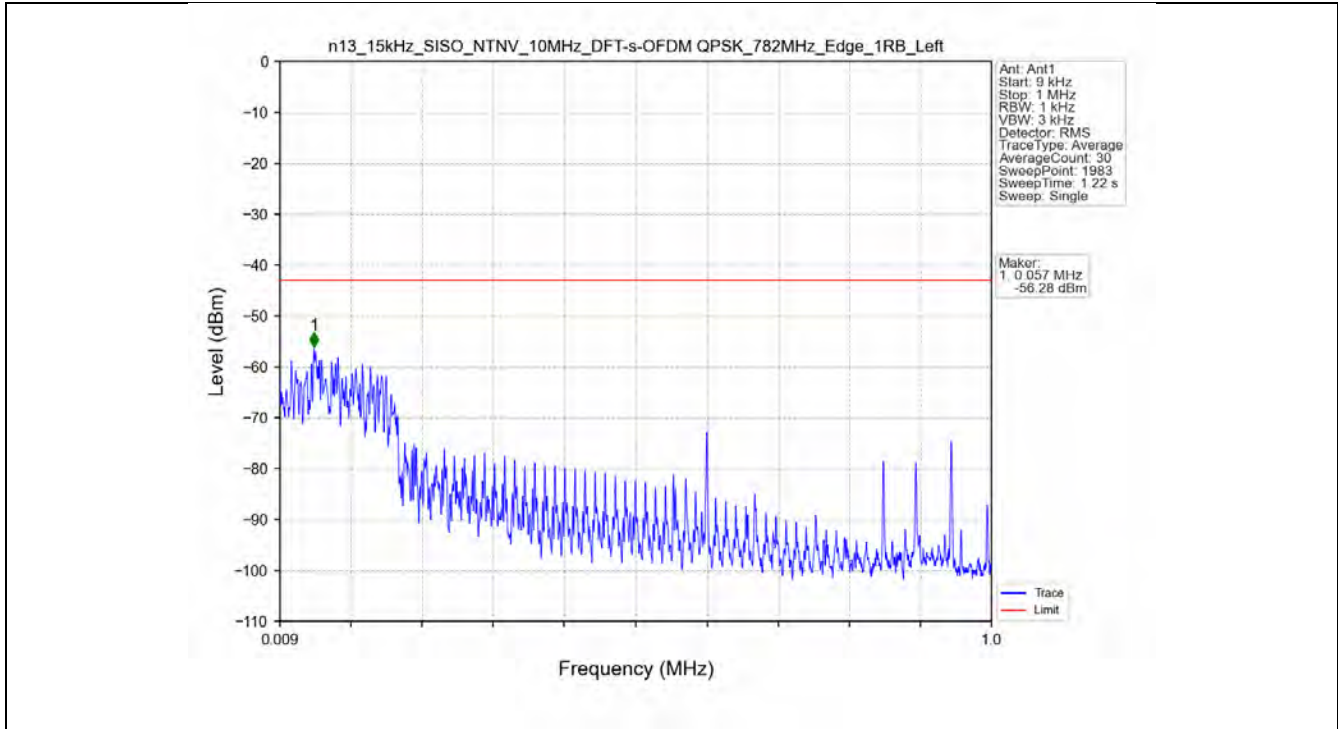


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Rev.: 01

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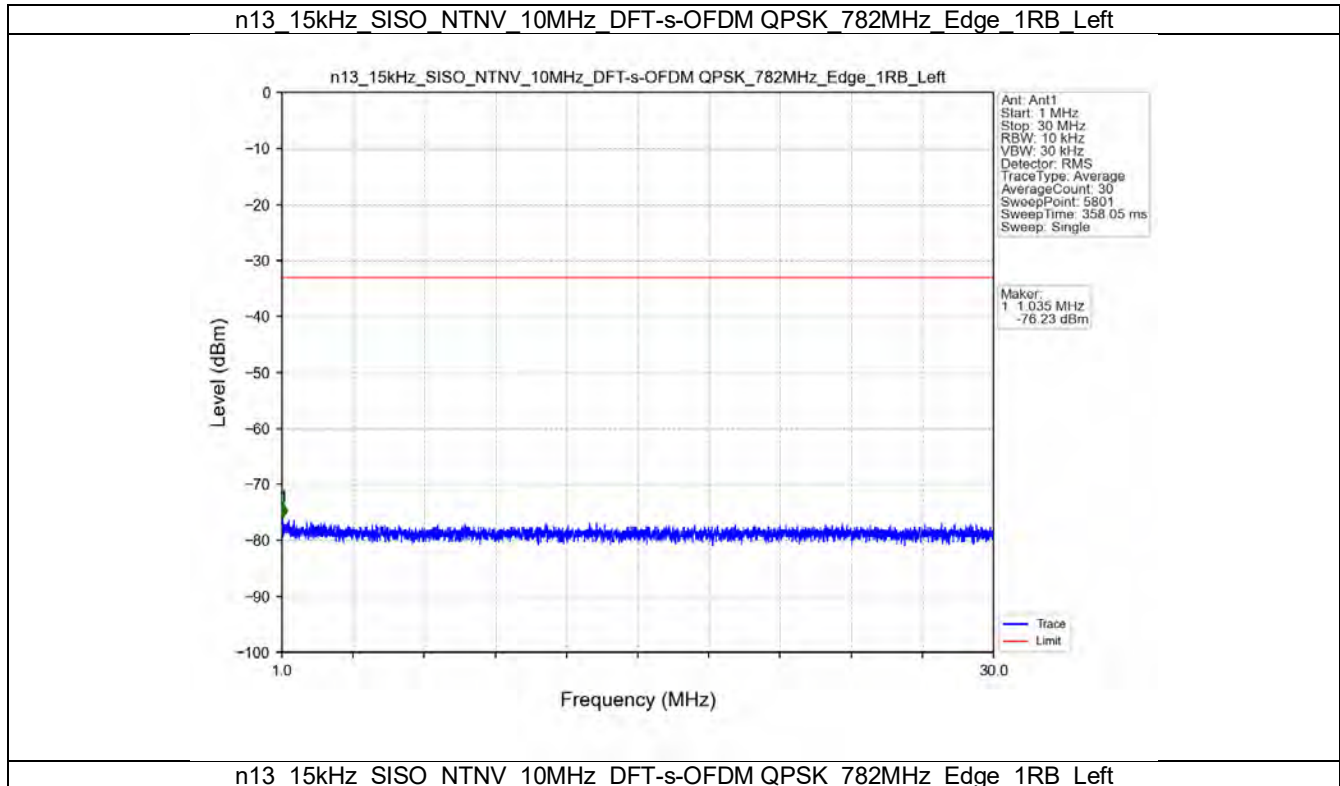


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Rev.: 01

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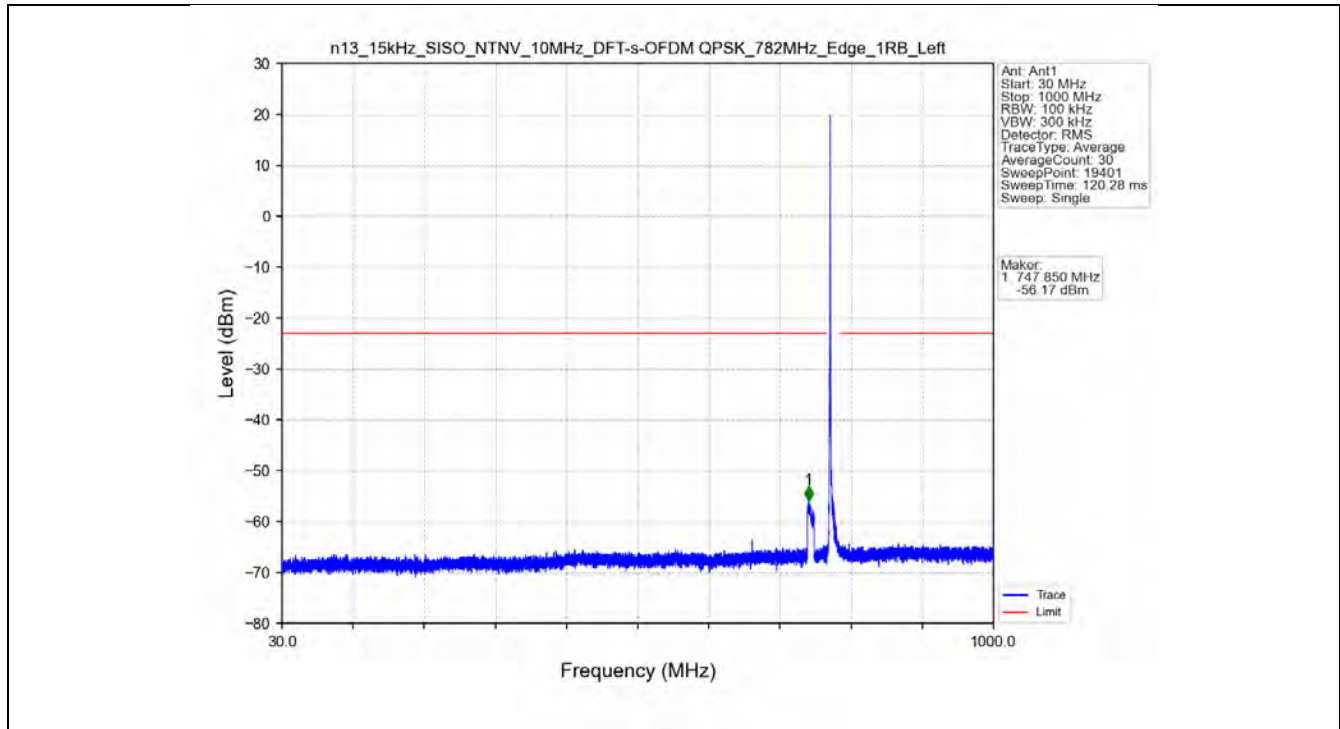


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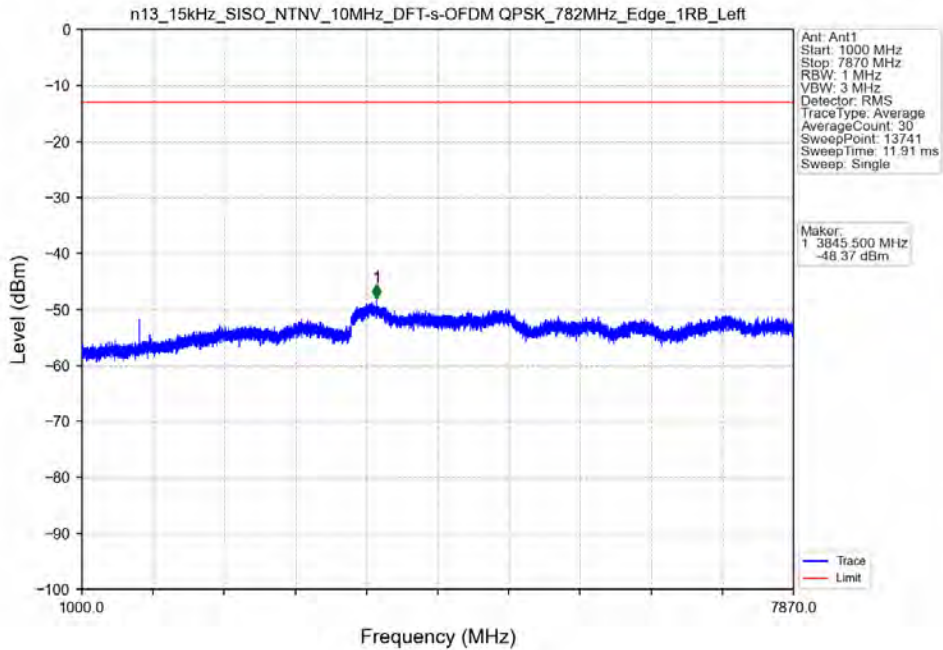
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Shenzhen Branch**

Report No.: SZCR240100038409

Rev.: 01

Page: 205 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Outer_Full



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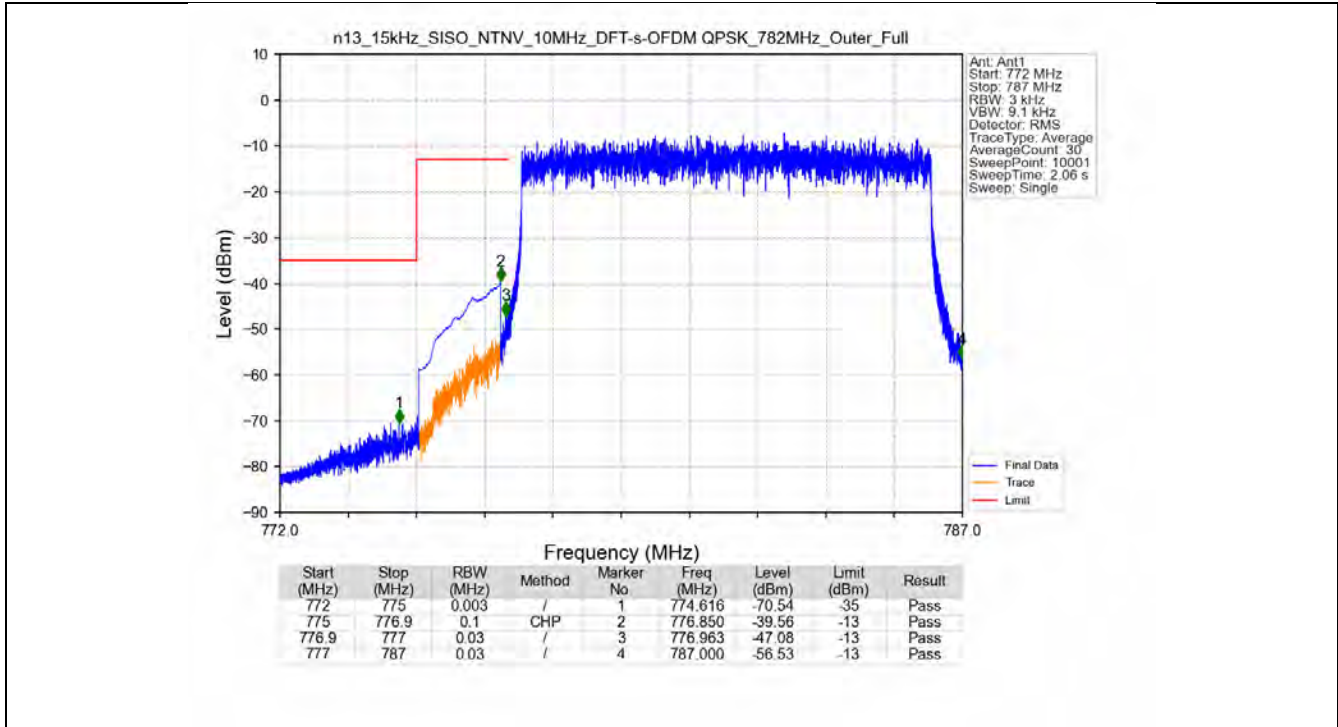


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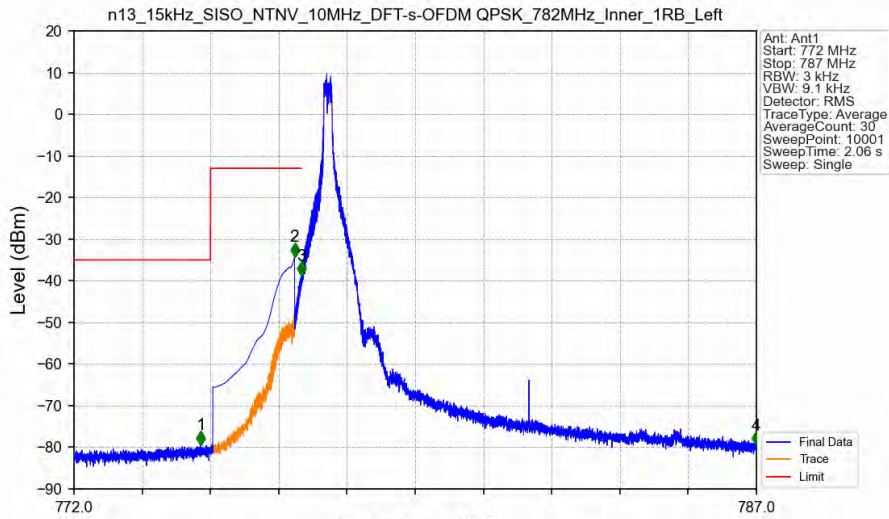
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Report No.: SZCR240100038409

Rev.: 01

Page: 207 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.003	/	1	774.785	-79.46	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.24	-13	Pass
776.9	777	0.03	/	3	776.992	-38.87	-13	Pass
777	787	0.03	/	4	787.000	-79.52	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



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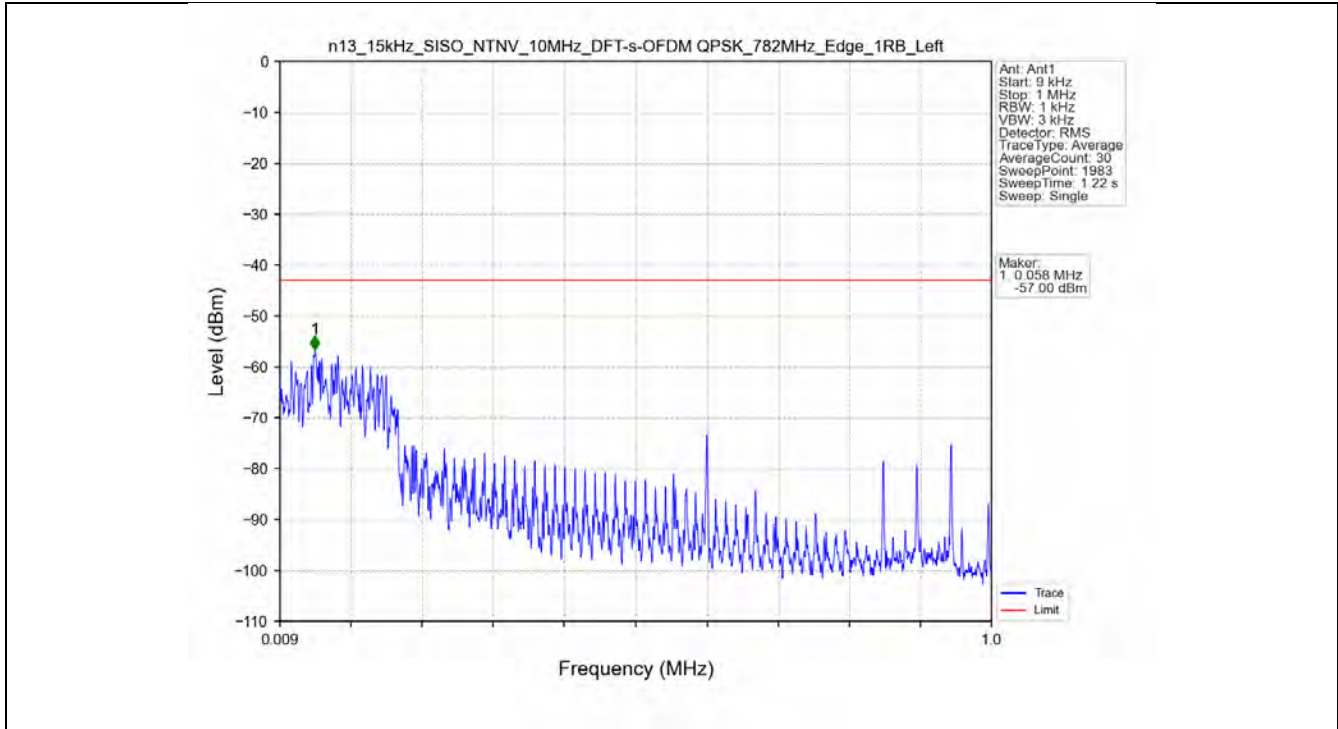


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Rev.: 01

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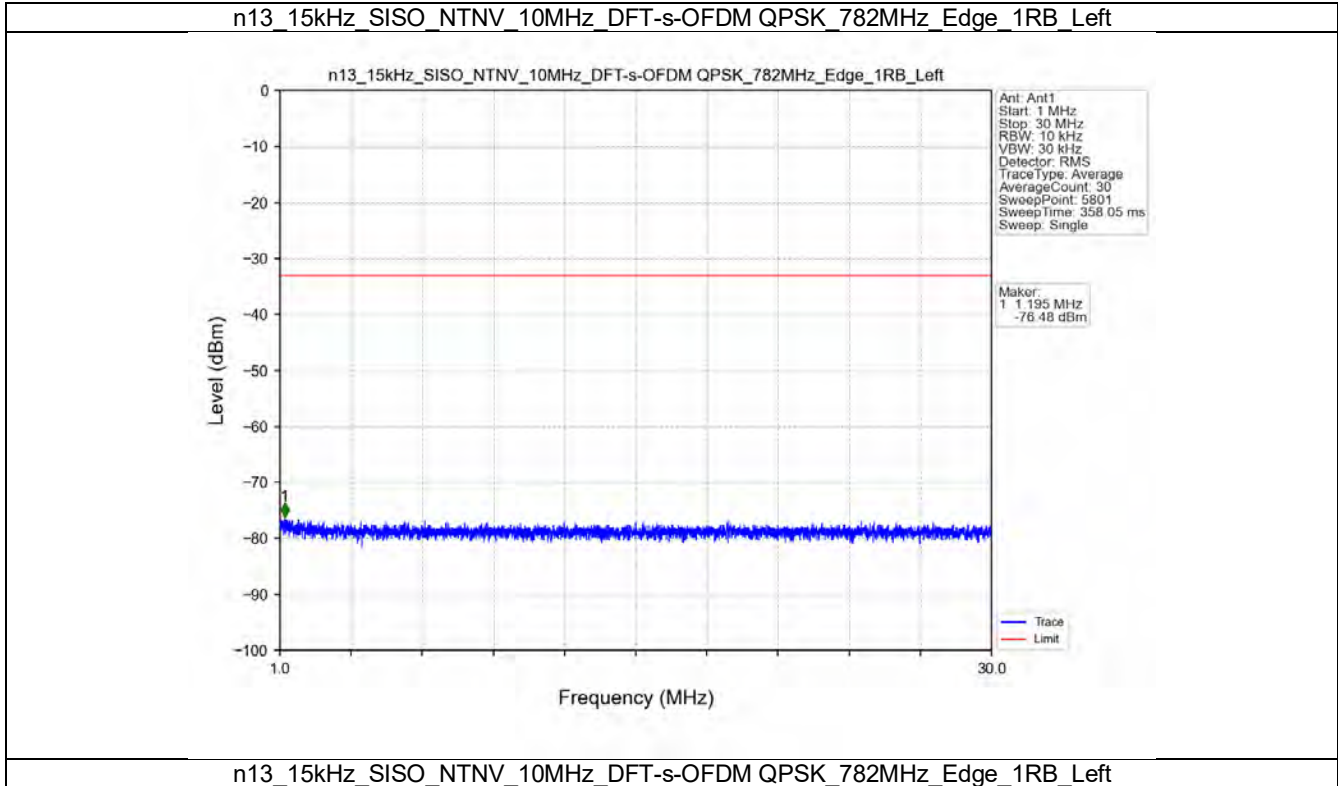


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Report No.: SZCR240100038409

Rev.: 01

Page: 209 of 237



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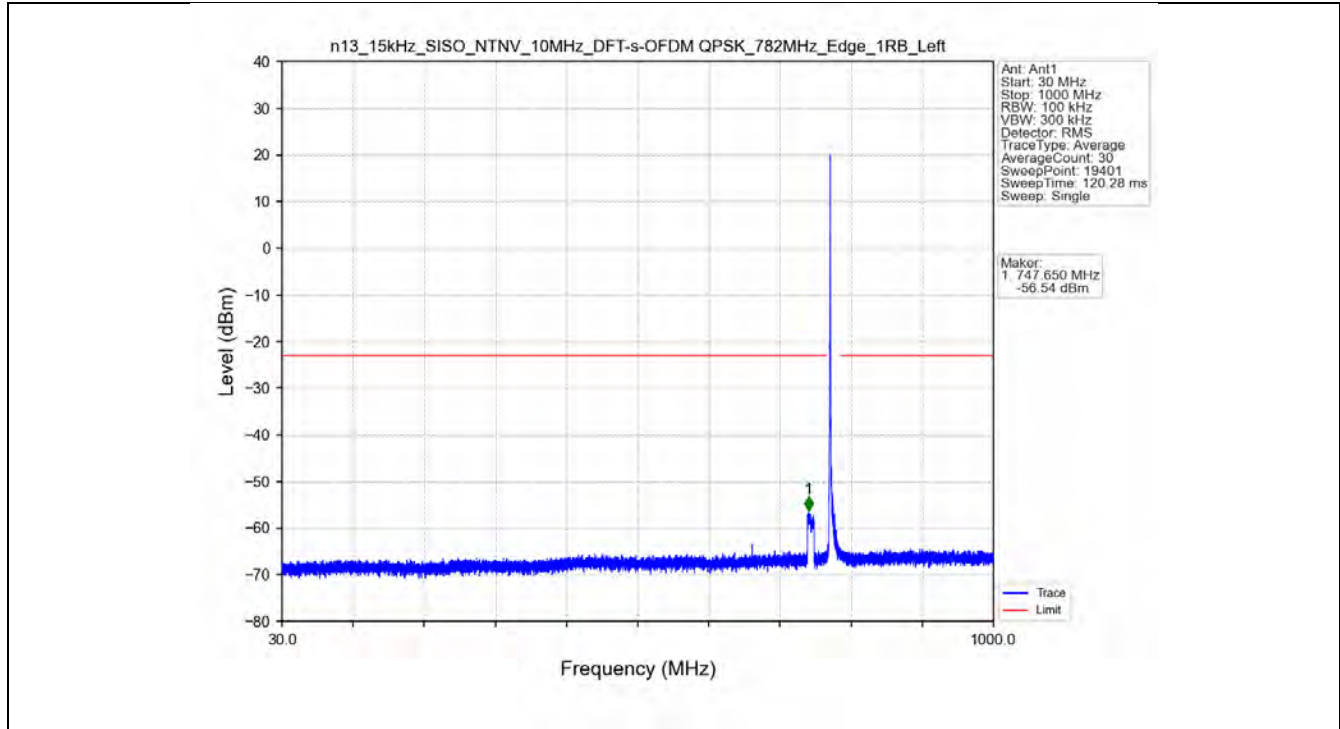


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Report No.: SZCR240100038409

Rev.: 01

Page: 210 of 237



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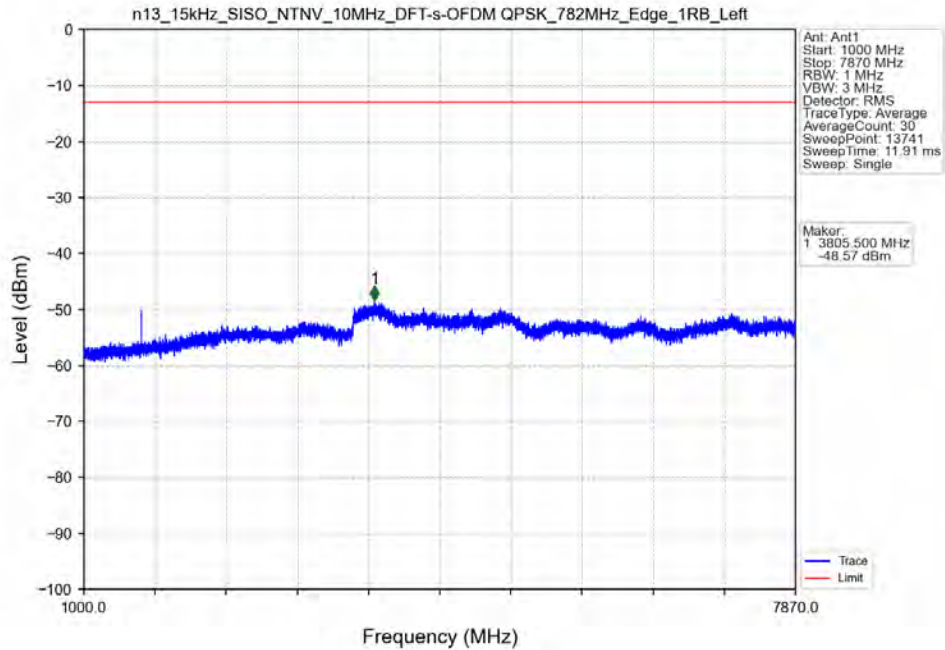
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Report No.: SZCR240100038409

Rev.: 01

Page: 211 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Right



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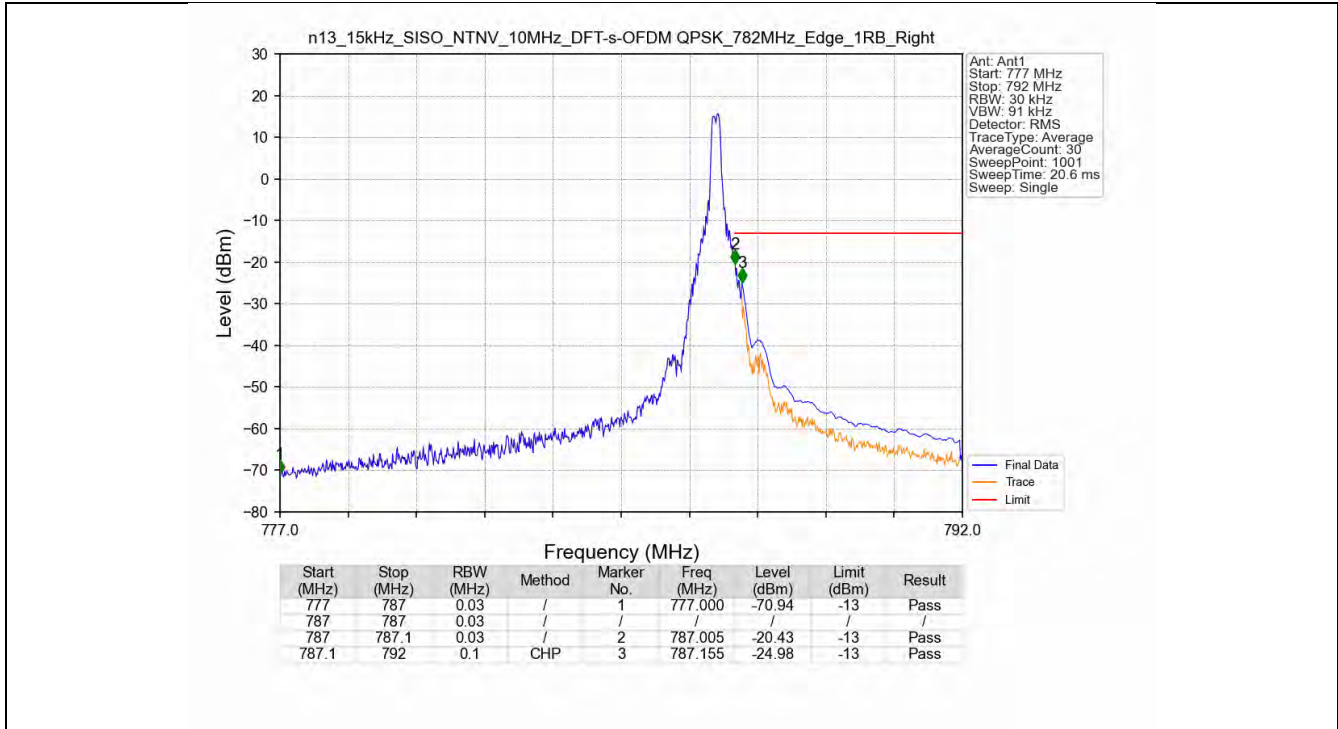


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Report No.: SZCR240100038409

Rev.: 01

Page: 212 of 237



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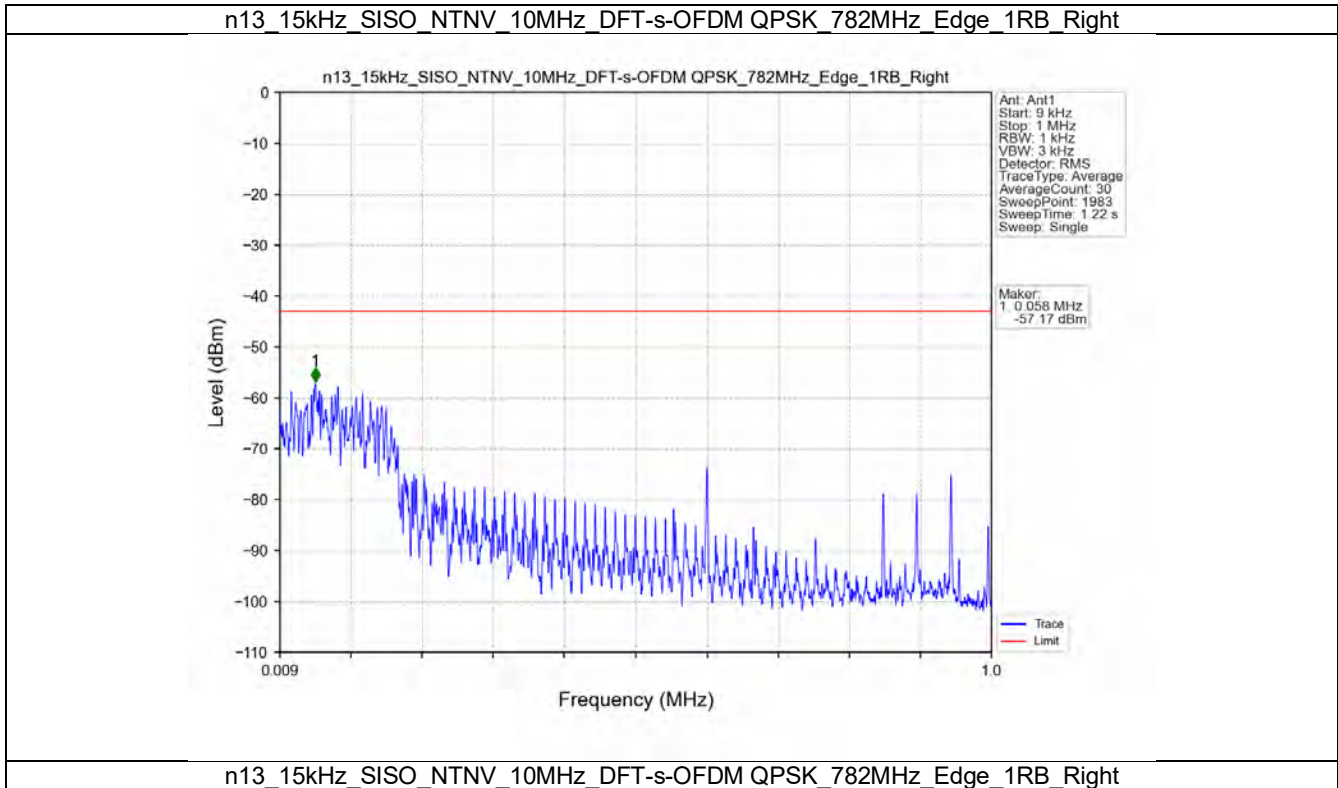


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Report No.: SZCR240100038409

Rev.: 01

Page: 213 of 237



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Right



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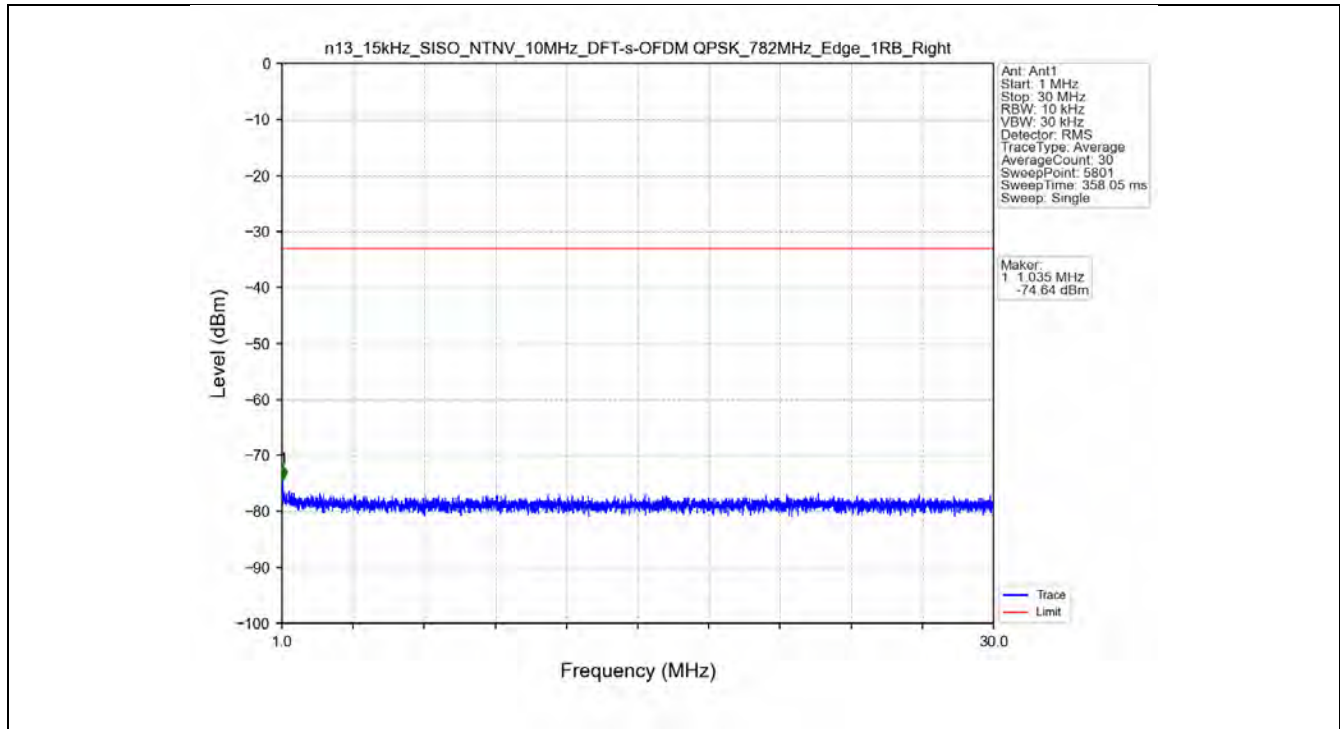


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Report No.: SZCR240100038409

Rev.: 01

Page: 214 of 237



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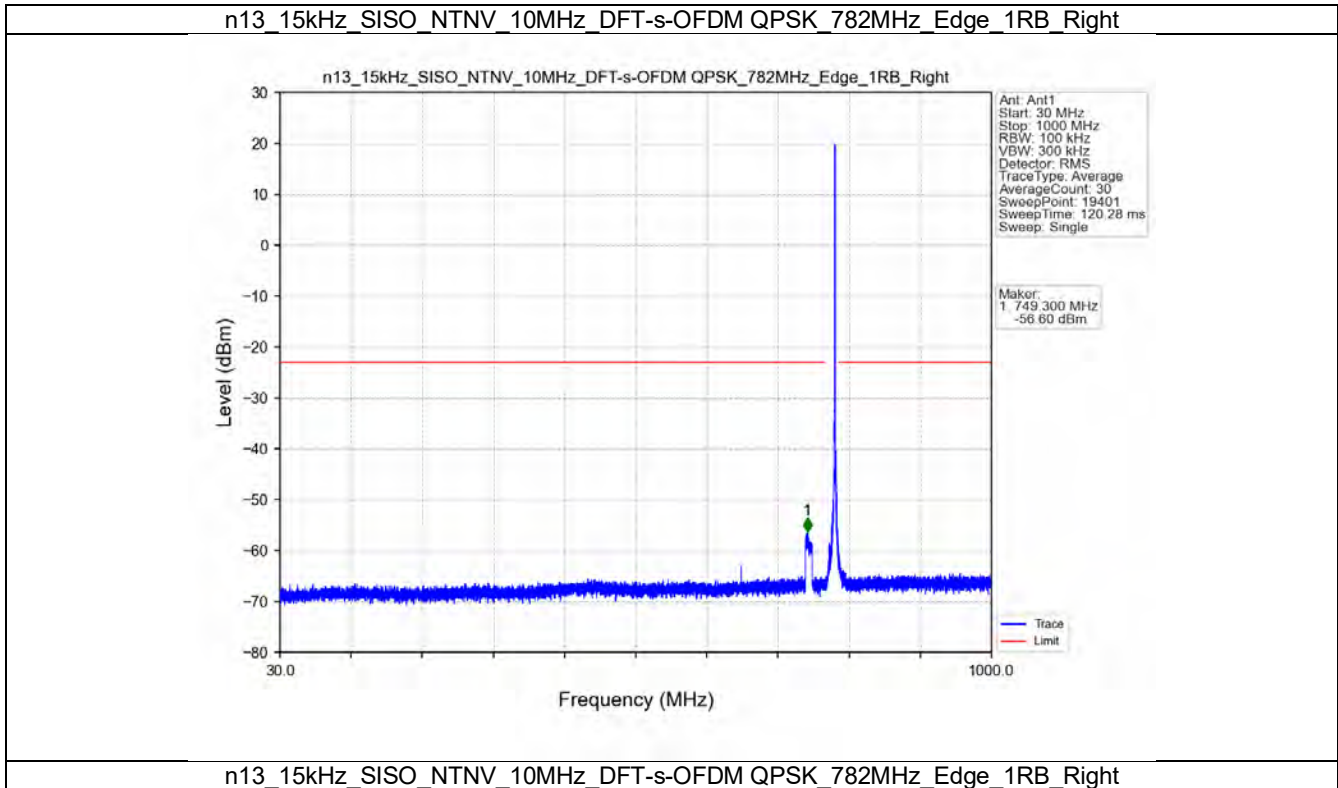


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Page: 215 of 237



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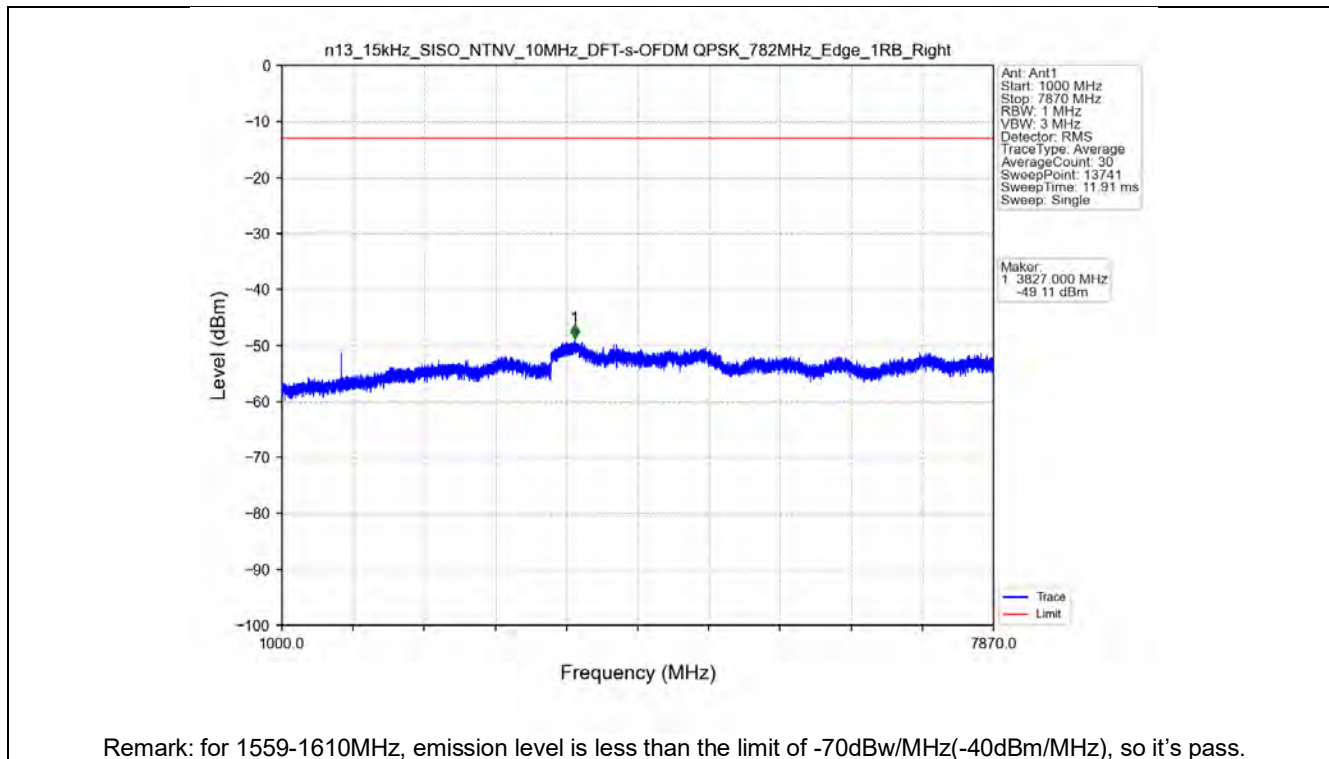
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Rev.: 01
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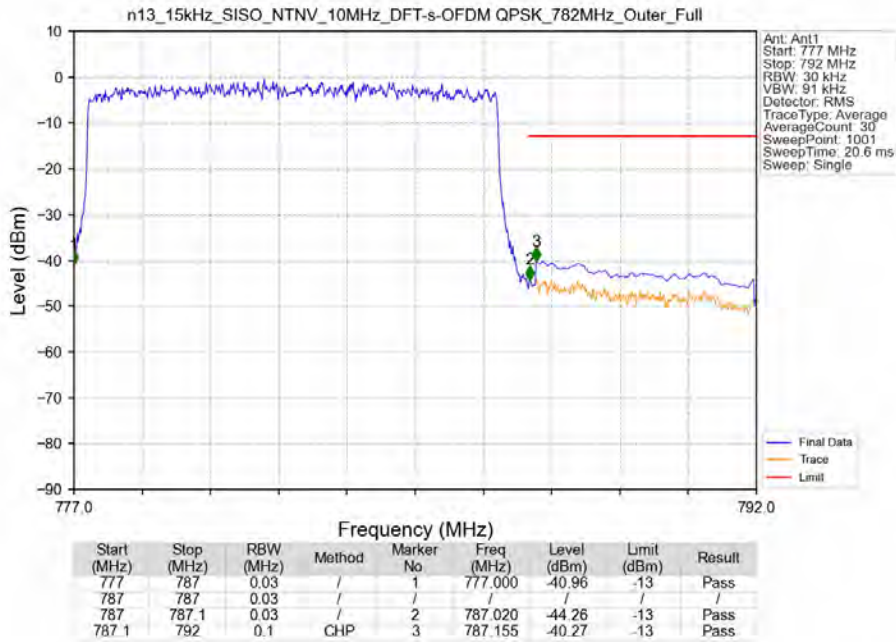
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Report No.: SZCR240100038409

Rev.: 01

Page: 217 of 237

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Outer_Full



n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Inner_1RB_Right



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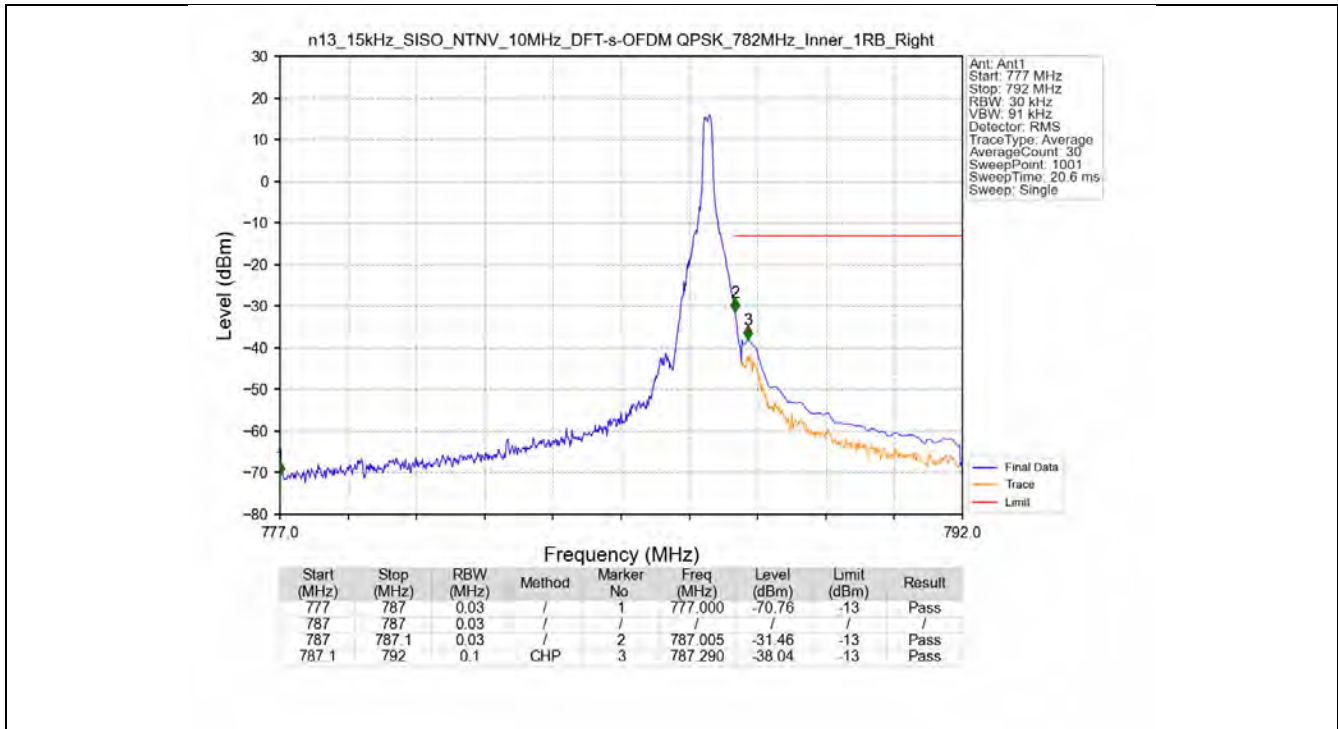


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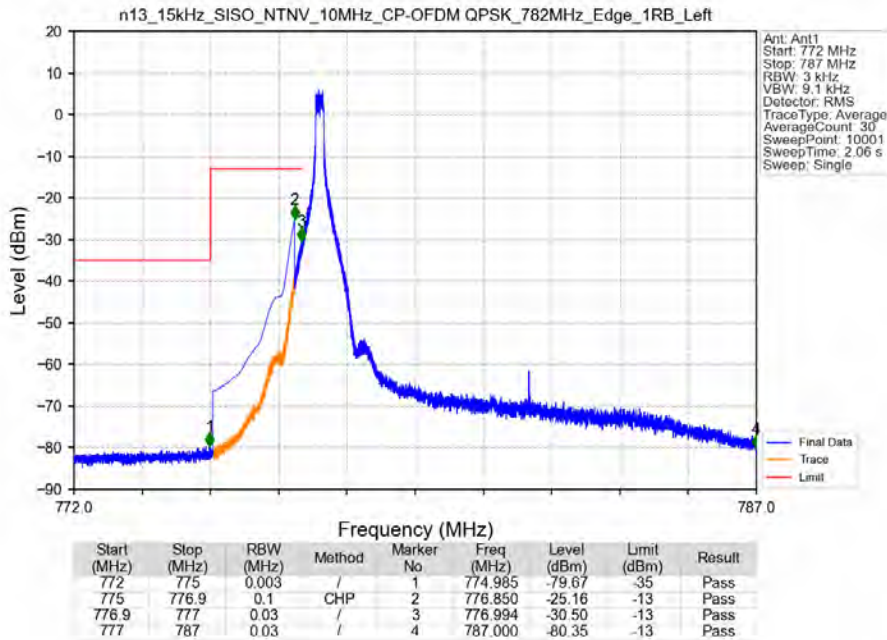
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Report No.: SZCR240100038409

Rev.: 01

Page: 219 of 237

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Edge_1RB_Left



n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Edge_1RB_Left



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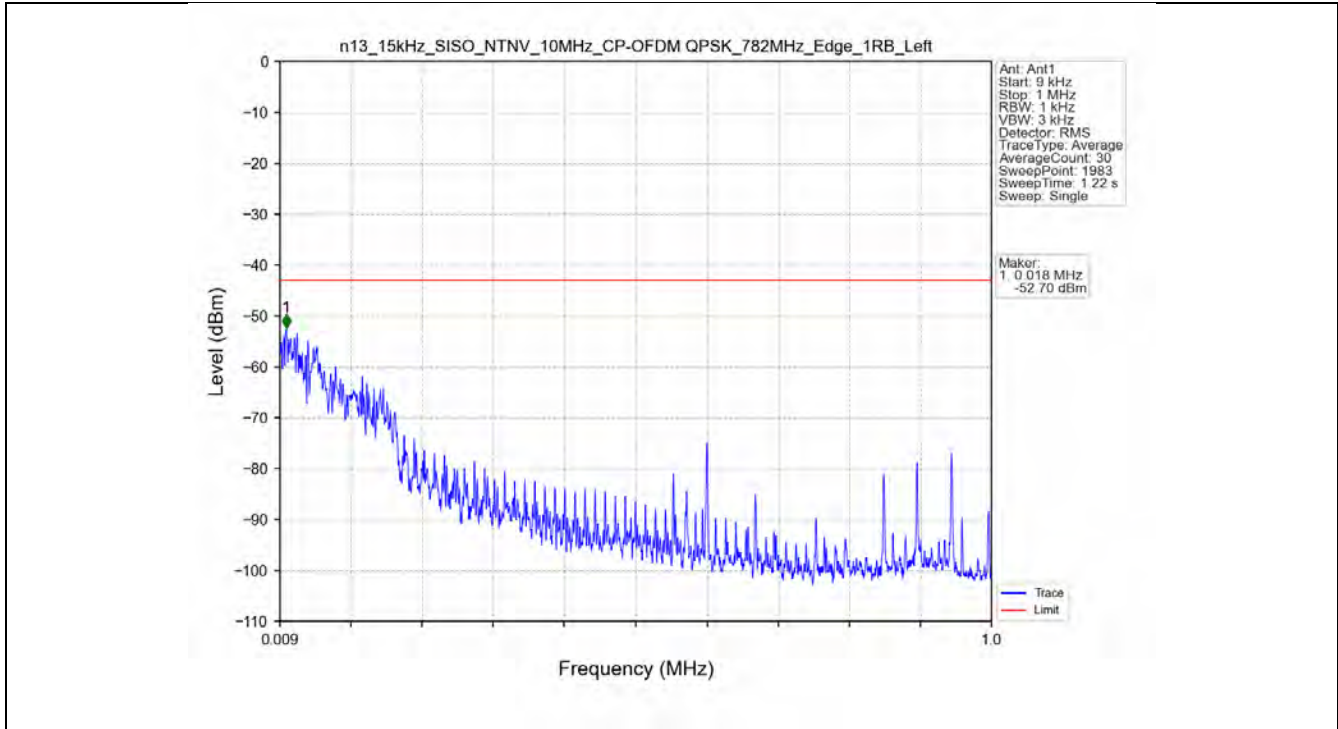


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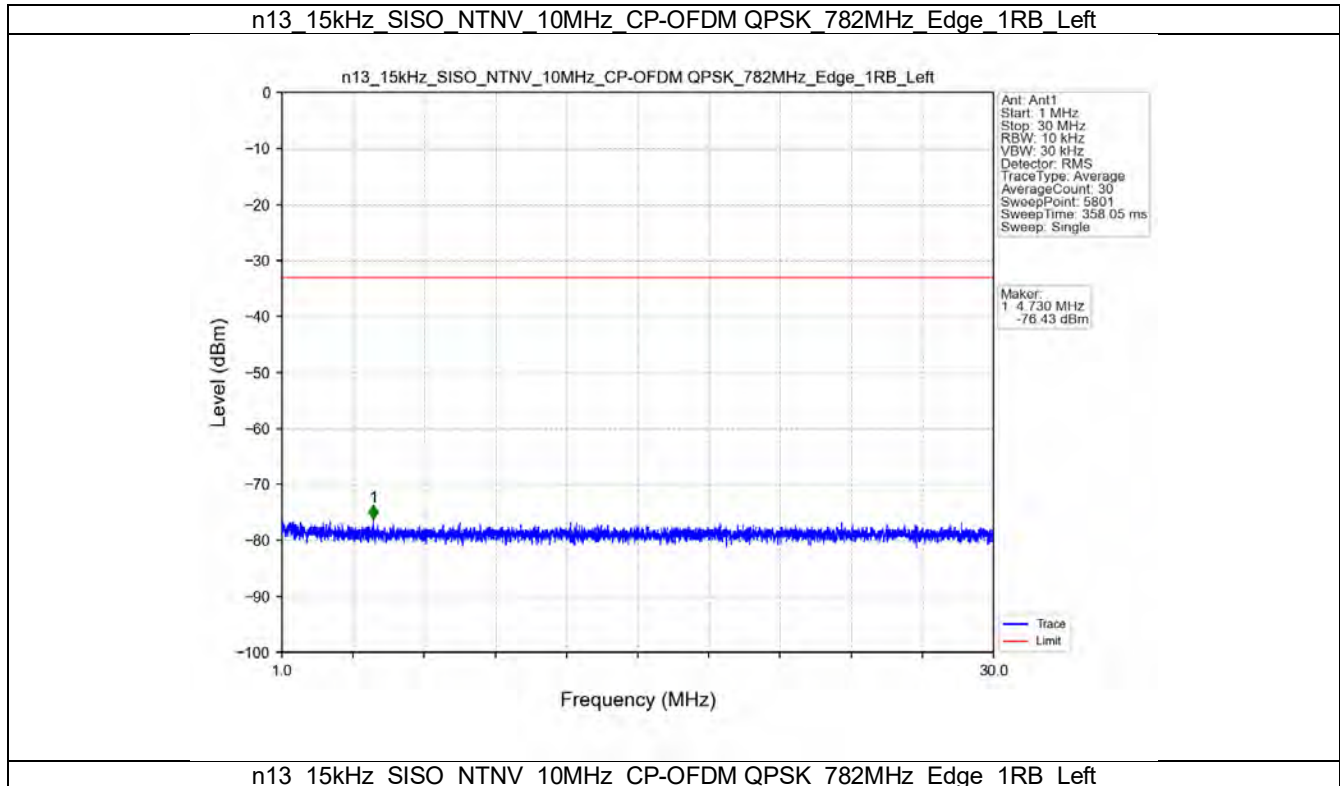


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Rev.: 01

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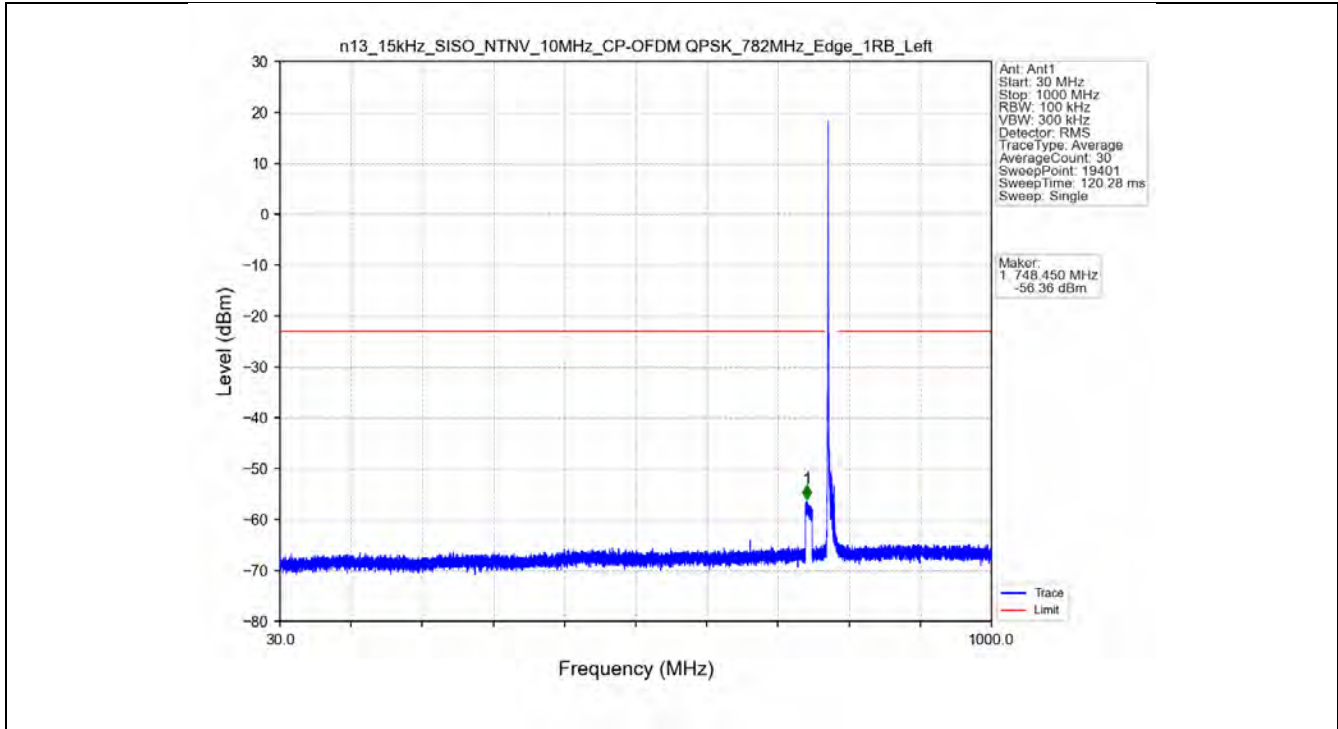


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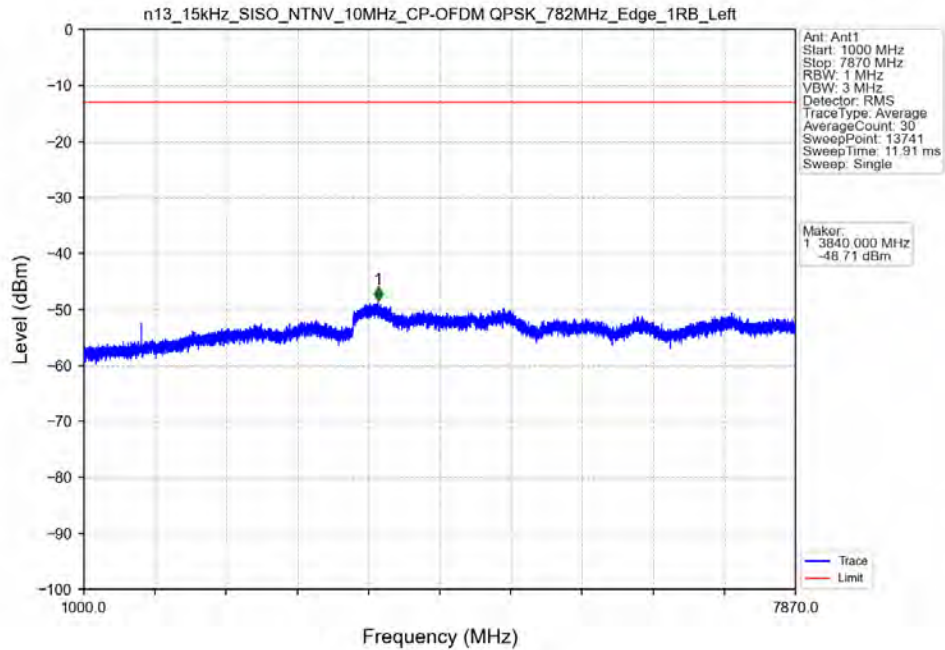
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Report No.: SZCR240100038409

Rev.: 01

Page: 223 of 237

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Outer_Full



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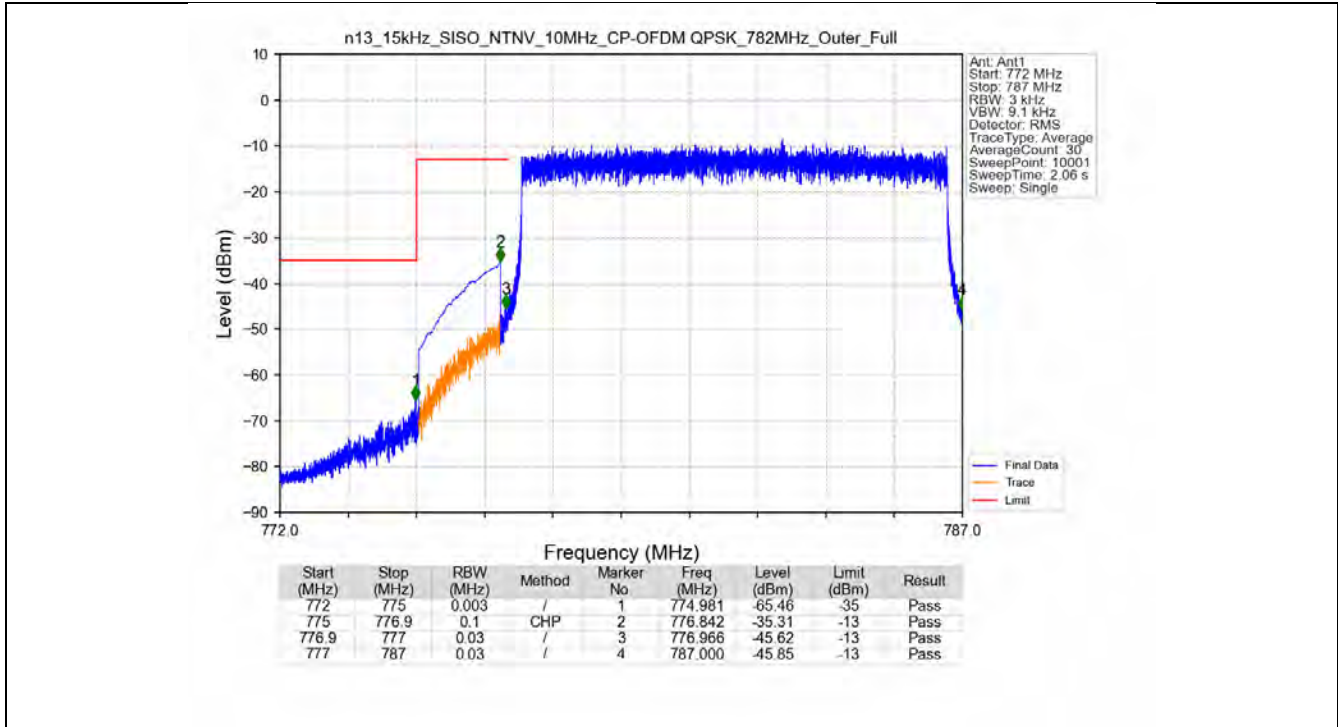


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Report No.: SZCR240100038409

Rev.: 01

Page: 224 of 237



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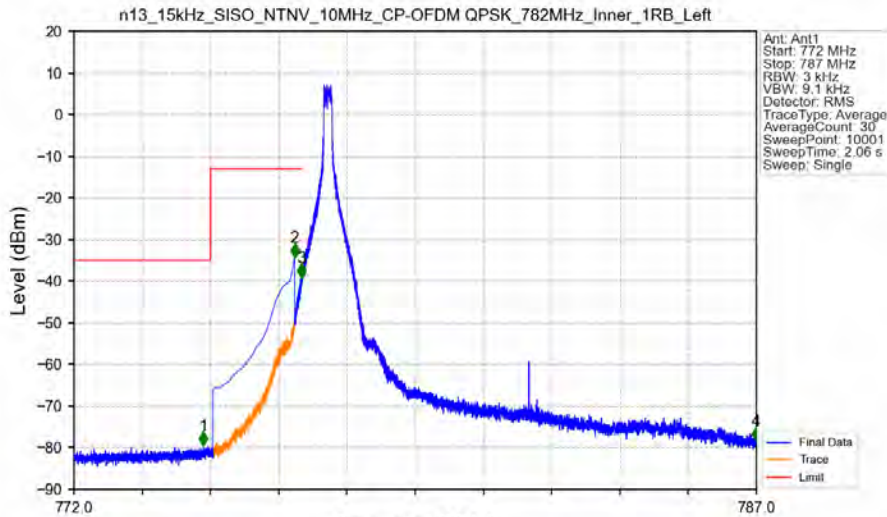
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 225 of 237

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.003	/	1	774.846	-79.53	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.30	-13	Pass
776.9	777	0.03	/	3	776.992	-39.23	-13	Pass
777	787	0.03	/	4	787.000	-78.31	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Edge_1RB_Left



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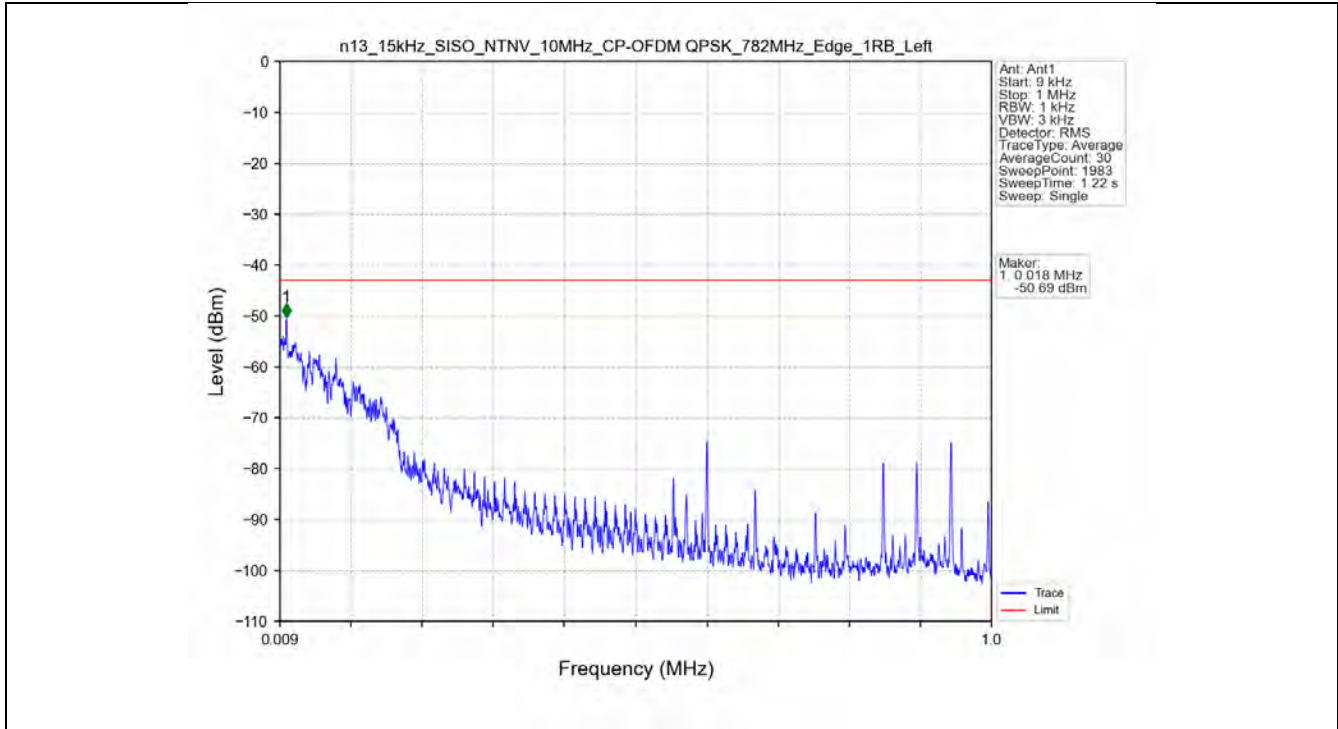


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Report No.: SZCR240100038409

Rev.: 01

Page: 226 of 237



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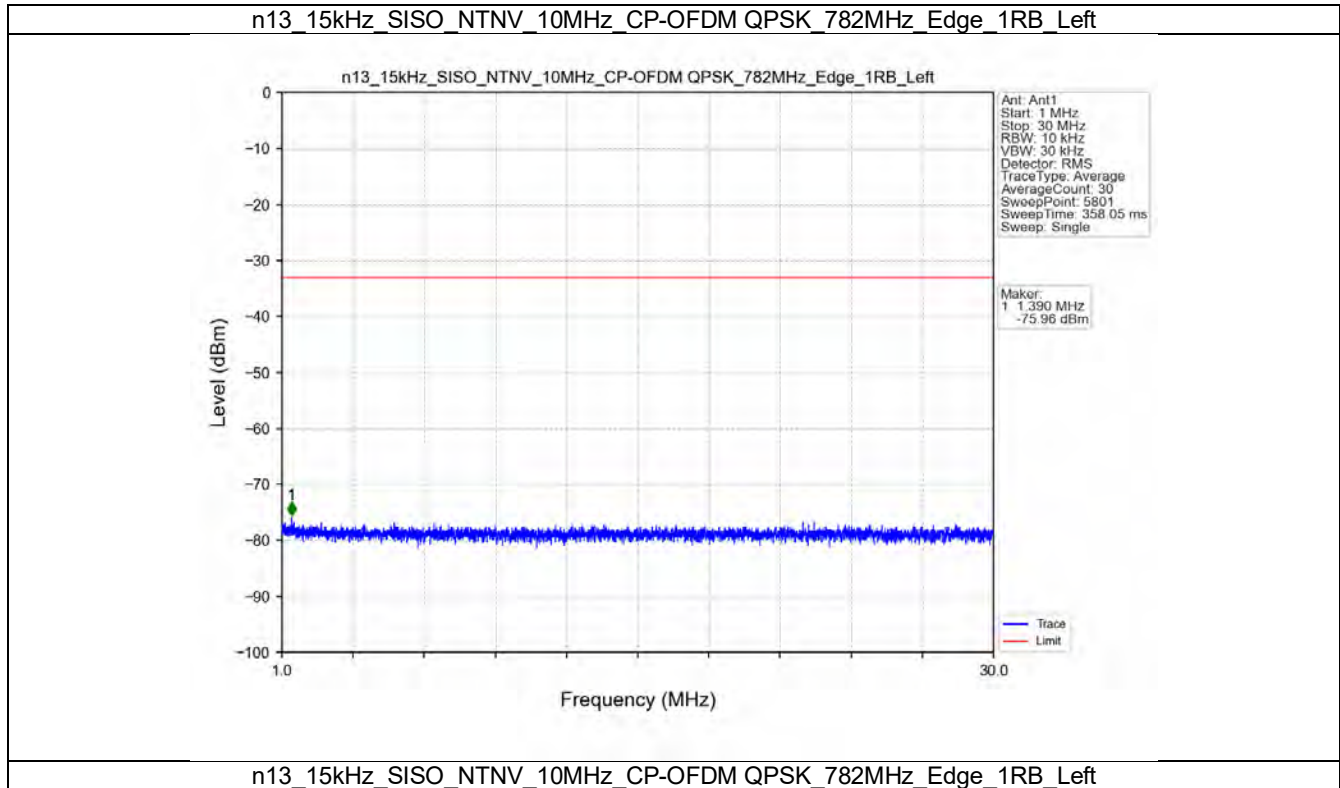


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Report No.: SZCR240100038409

Rev.: 01

Page: 227 of 237



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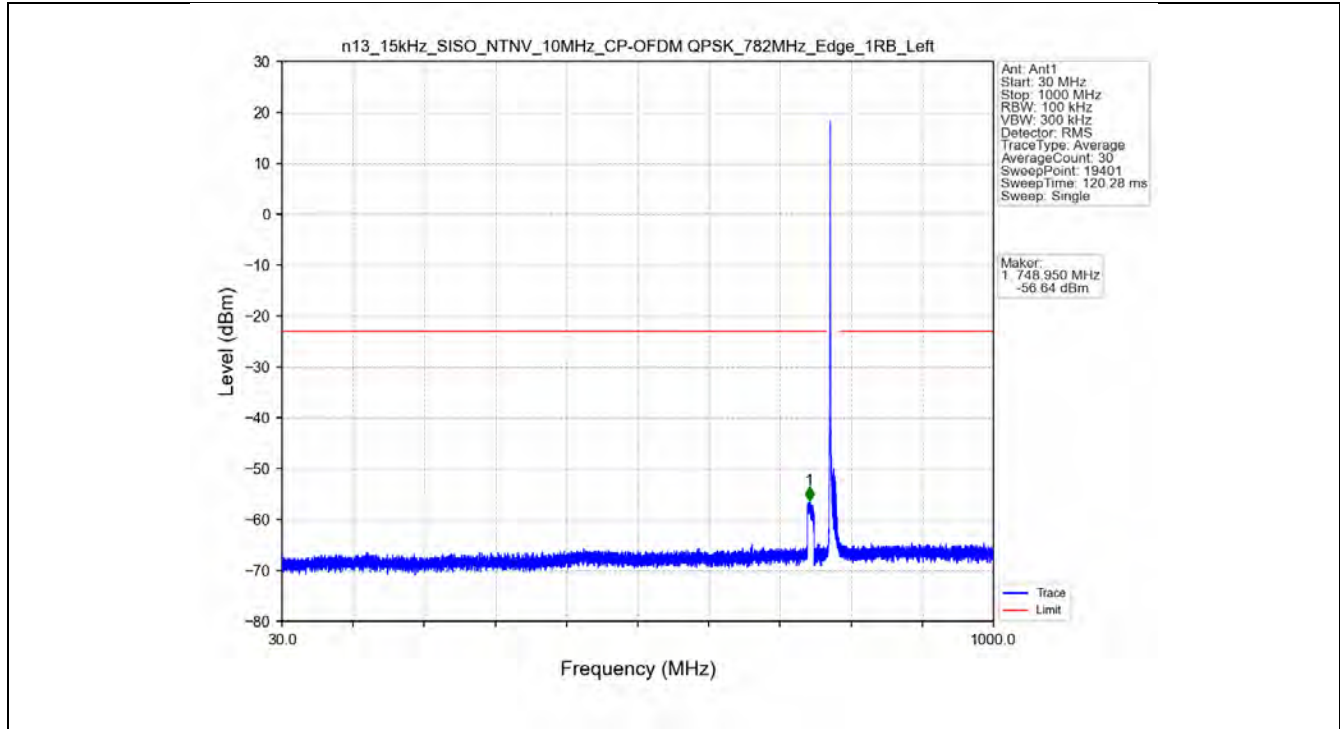


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Report No.: SZCR240100038409

Rev.: 01

Page: 228 of 237



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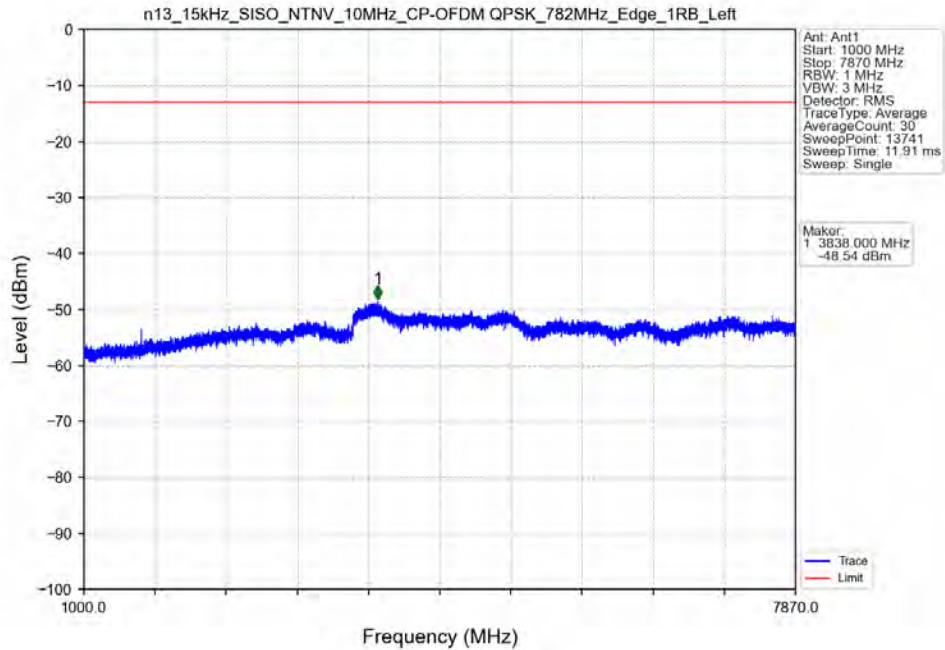
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 229 of 237

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Left



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Right



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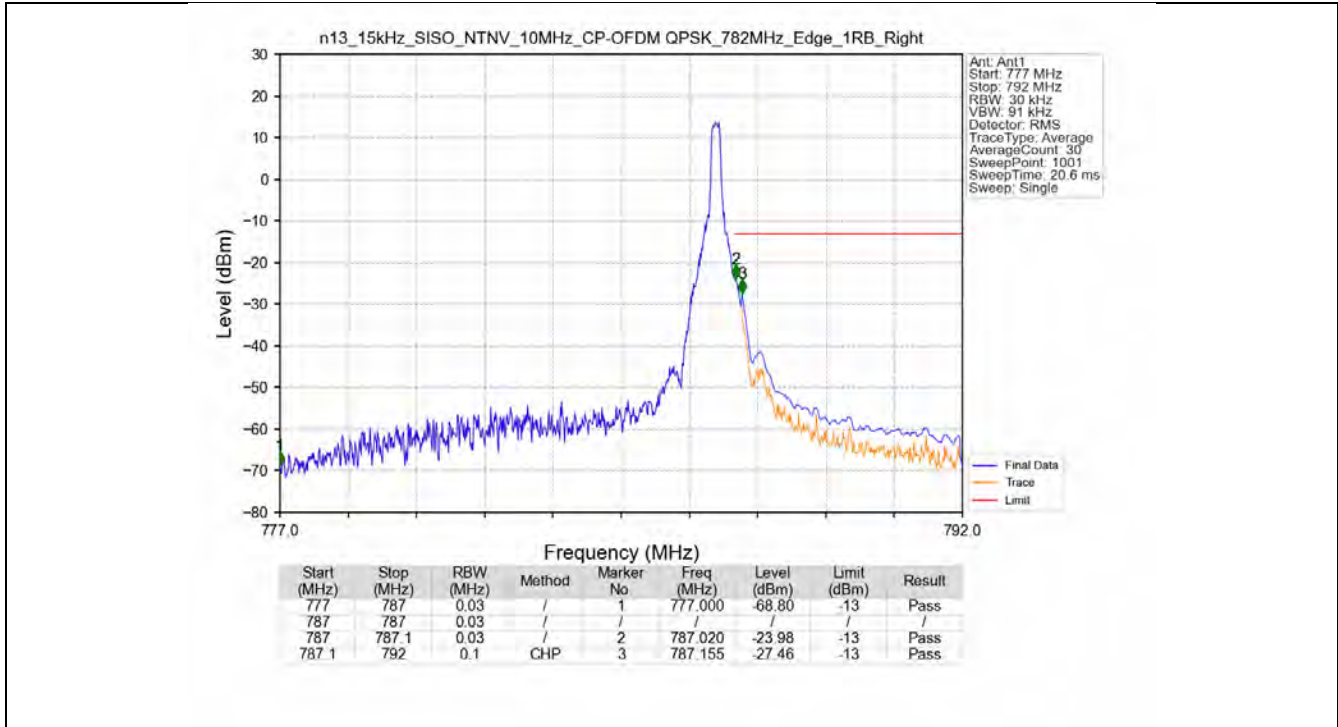


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Report No.: SZCR240100038409

Rev.: 01

Page: 230 of 237



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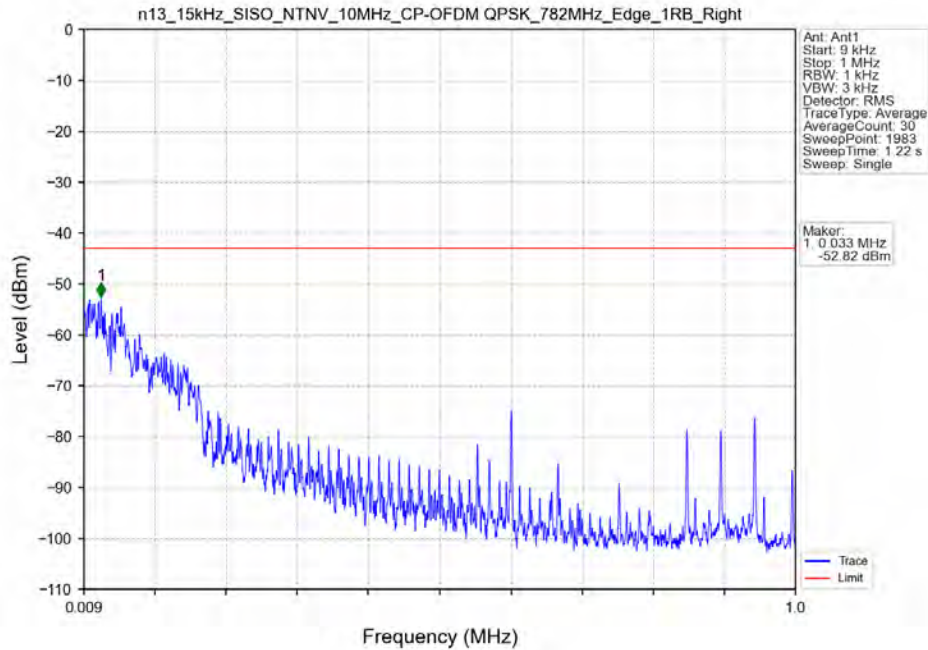
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Report No.: SZCR240100038409

Rev.: 01

Page: 231 of 237

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Edge_1RB_Right



n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Edge_1RB_Right



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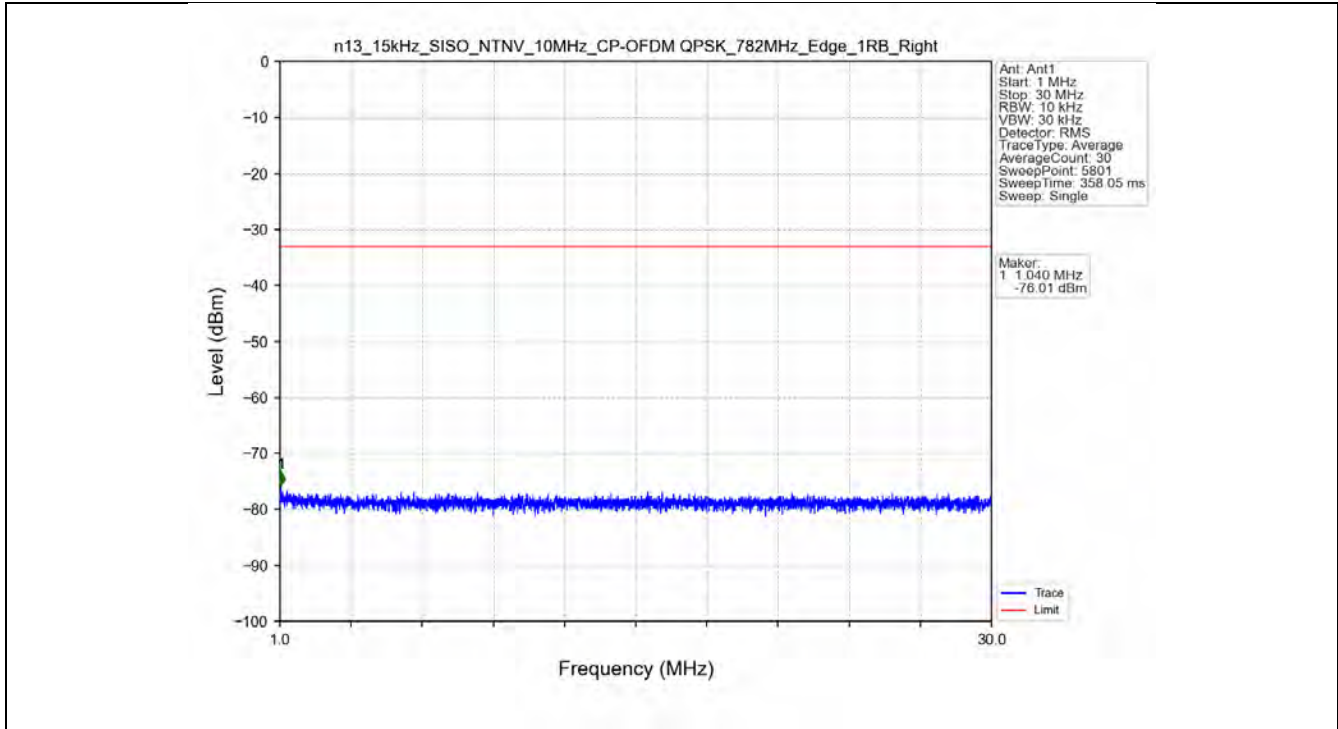


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Rev.: 01

Page: 232 of 237



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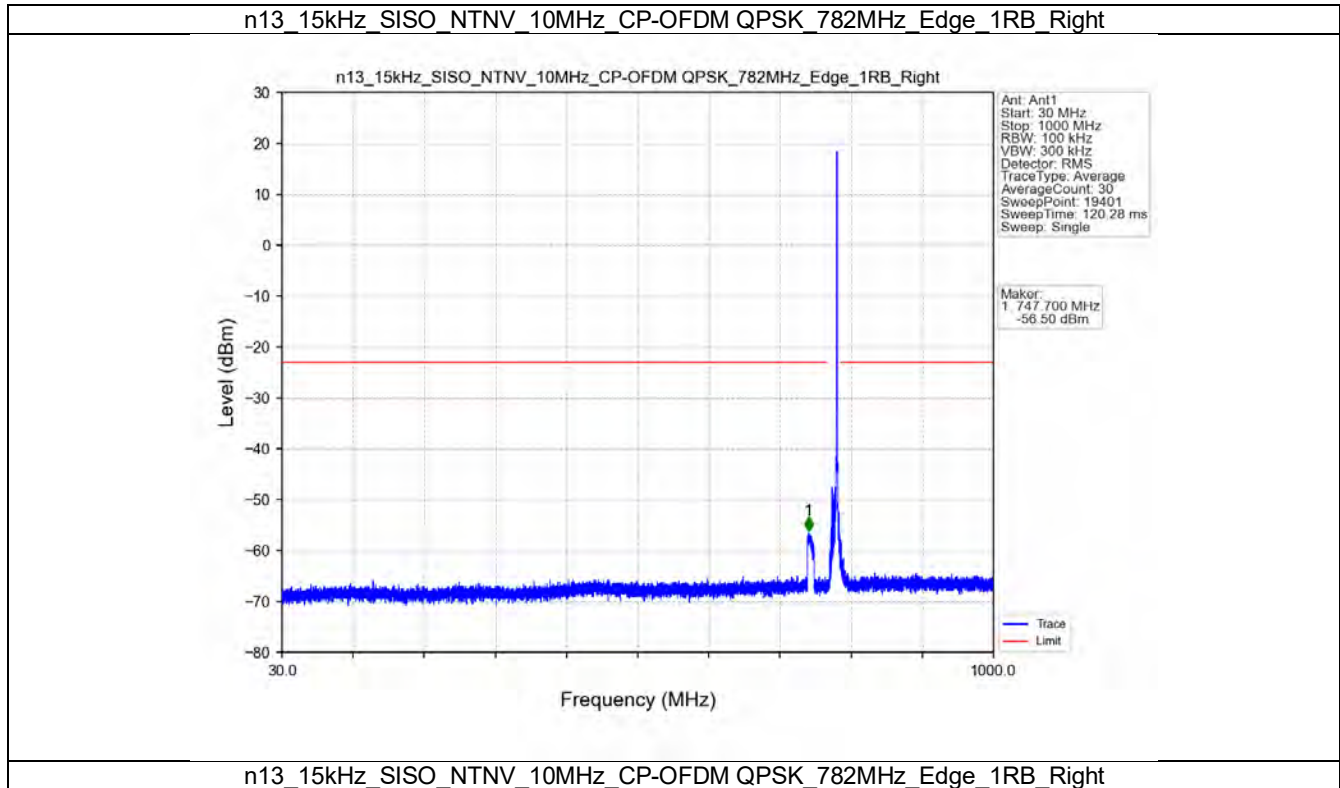


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Report No.: SZCR240100038409

Rev.: 01

Page: 233 of 237



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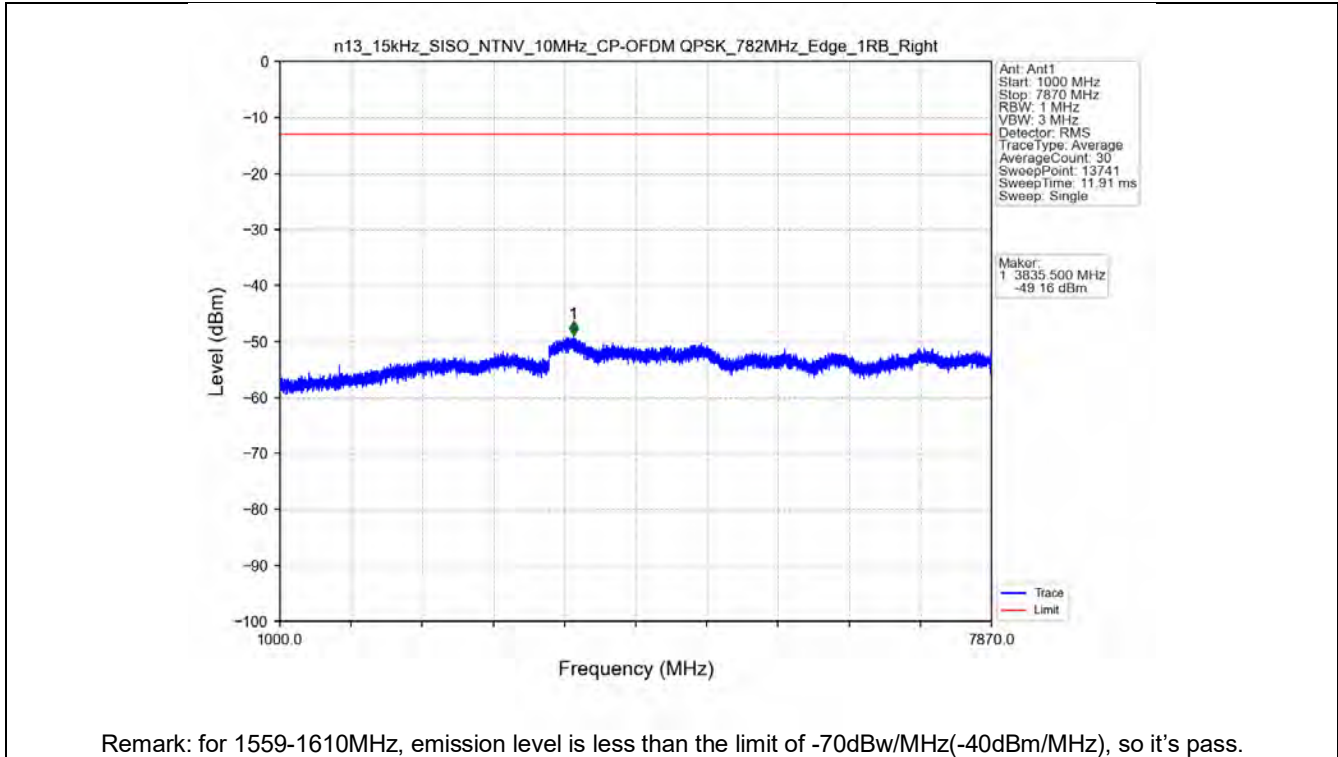


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Rev.: 01

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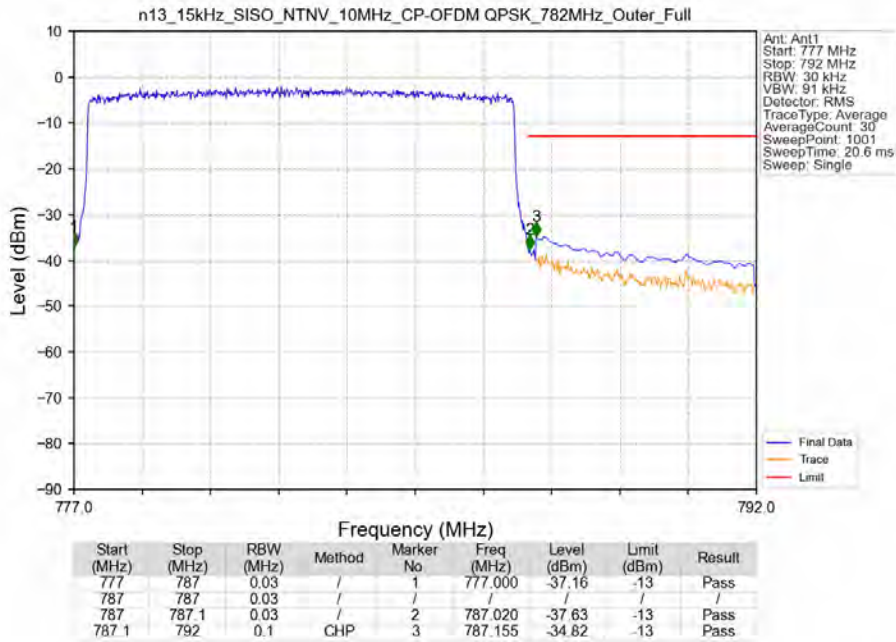
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Report No.: SZCR240100038409

Rev.: 01

Page: 235 of 237

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Outer_Full



n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Inner_1RB_Right



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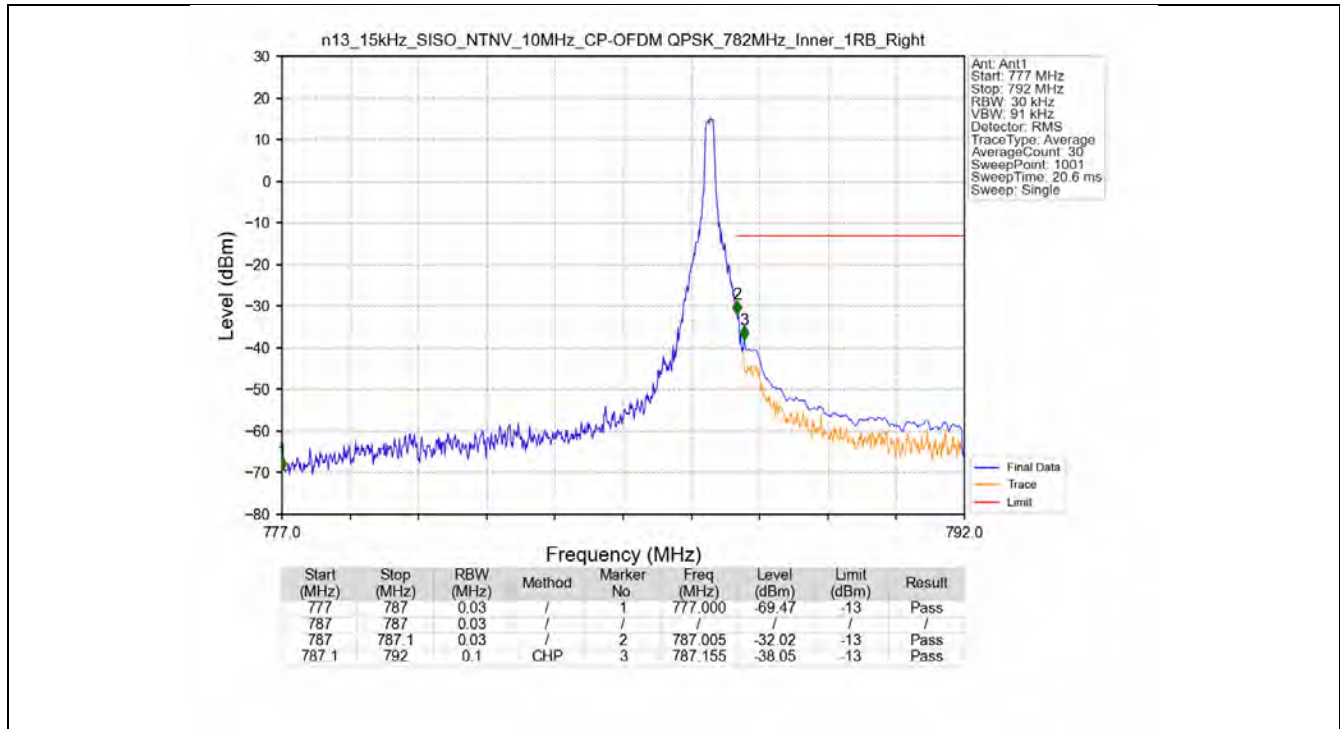


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Report No.: SZCR240100038409

Rev.: 01

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Report No.: SZCR240100038409

Rev.: 01

Page: 237 of 237

6. Field Strength of Spurious Radiation

NR Band 13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1554.5	-66.26	-13	-53.26	-70.135	2	5.88	Horizontal	Pass
2331.75	-61.36	-13	-48.36	-63.63	2.35	4.62	Horizontal	Pass
3109	-54.61	-13	-41.61	-58.57	2.96	6.92	Horizontal	Pass
1554.5	-62.87	-13	-49.87	-66.745	2	5.88	Vertical	Pass
2331.75	-61.37	-13	-48.37	-63.64	2.35	4.62	Vertical	Pass
3109	-55.68	-13	-42.68	-59.64	2.96	6.92	Vertical	Pass

NR Band 13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1559.5	-65.77	-40	-25.77	-69.645	2	5.88	Horizontal	Pass
2339.25	-61.87	-13	-48.87	-64.14	2.35	4.62	Horizontal	Pass
3119	-54.91	-13	-41.91	-58.87	2.96	6.92	Horizontal	Pass
1559.5	-63.80	-40	-23.80	-67.675	2	5.88	Vertical	Pass
2339.25	-61.14	-13	-48.14	-63.41	2.35	4.62	Vertical	Pass
3119	-55.53	-13	-42.53	-59.49	2.96	6.92	Vertical	Pass

NR Band 13-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1564.5	-64.71	-40	-24.71	-68.585	2	5.88	Horizontal	Pass
2346.75	-61.93	-13	-48.93	-64.2	2.35	4.62	Horizontal	Pass
3129	-54.96	-13	-41.96	-58.92	2.96	6.92	Horizontal	Pass
1564.5	-63.20	-40	-23.20	-67.075	2	5.88	Vertical	Pass
2346.75	-61.38	-13	-48.38	-63.65	2.35	4.62	Vertical	Pass
3129	-54.60	-13	-41.60	-58.56	2.96	6.92	Vertical	Pass

---End of Attachment---



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