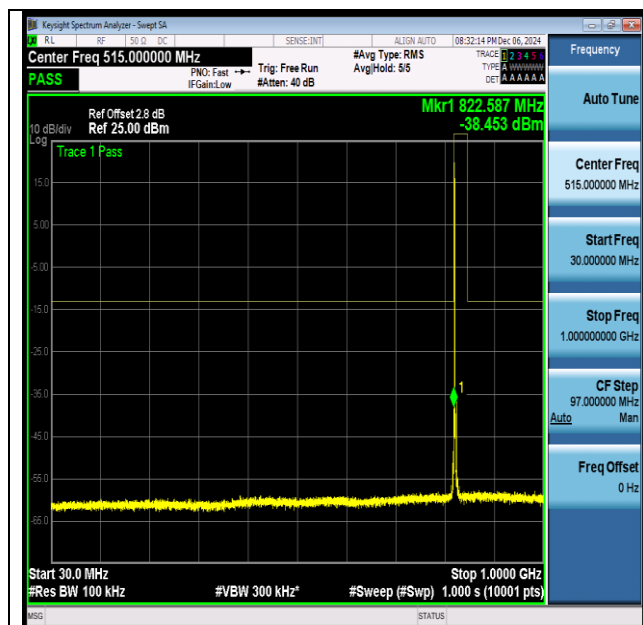




BUREAU
VERITAS

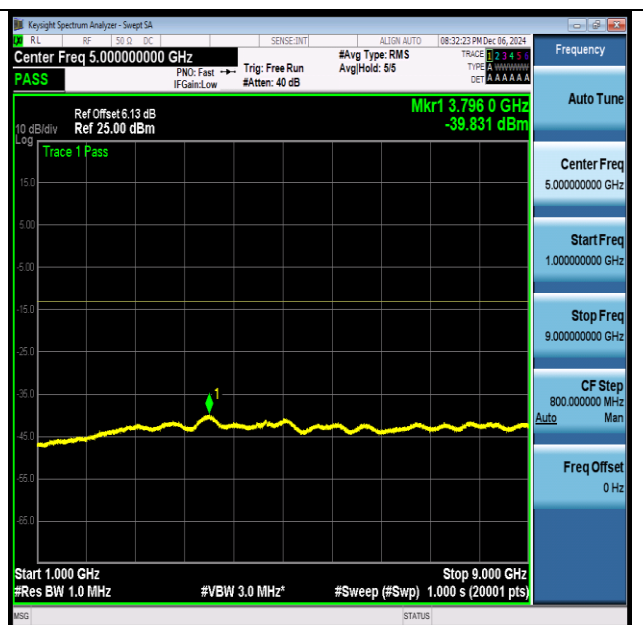
Test Report No.: PSU-QSU2411180418

TEST GRAPHS



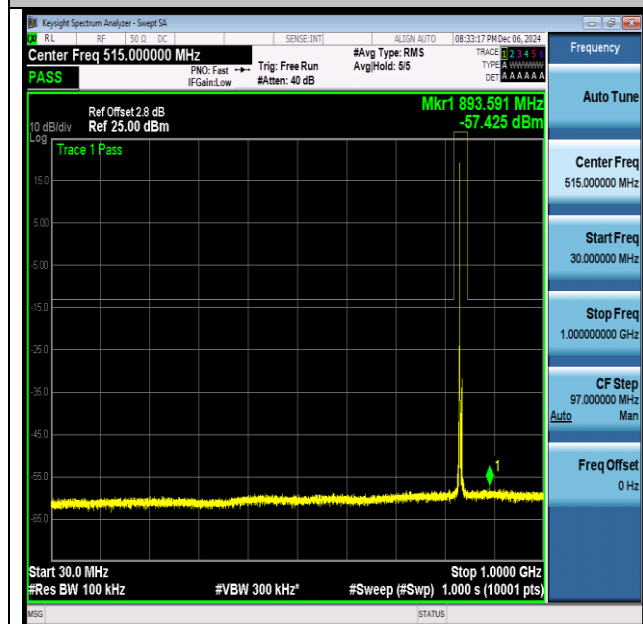
NTNV-N5-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



NTNV-N5-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



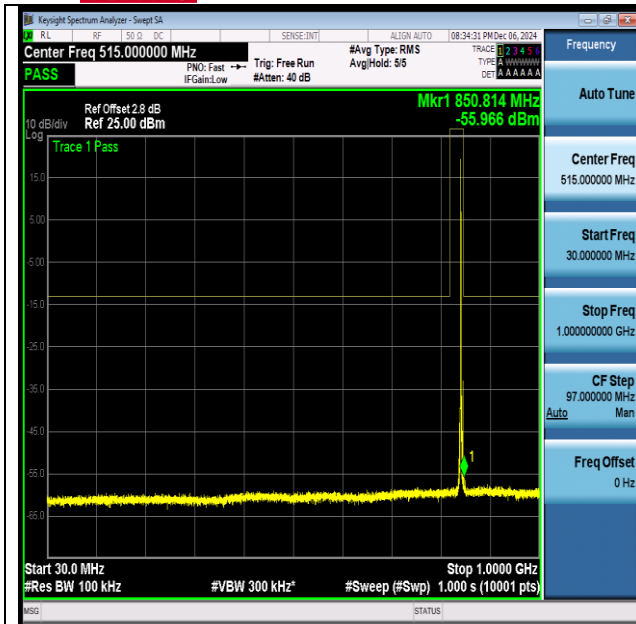
NTNV-N5-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



NTNV-N5-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



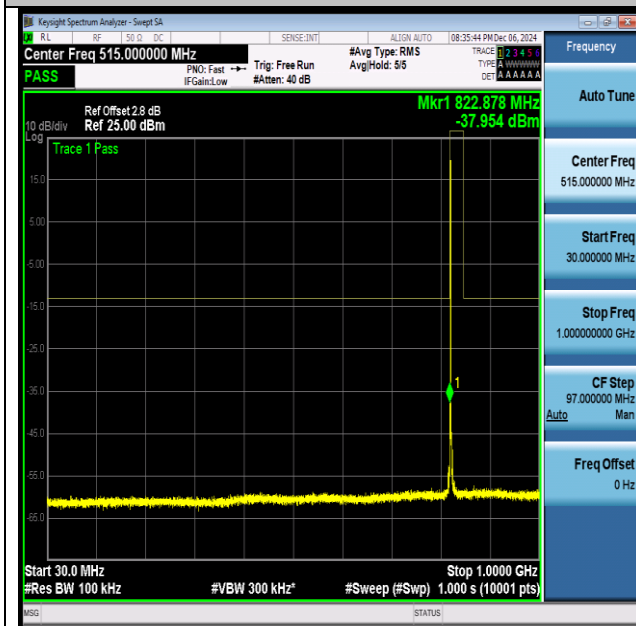
NTNV-N5-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



NTNV-N5-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



NTNV-N5-PC3-15-10-L-DFT-QPSK-Edge_1RB_Left-

Ant1-PASS



NTNV-N5-PC3-15-10-L-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



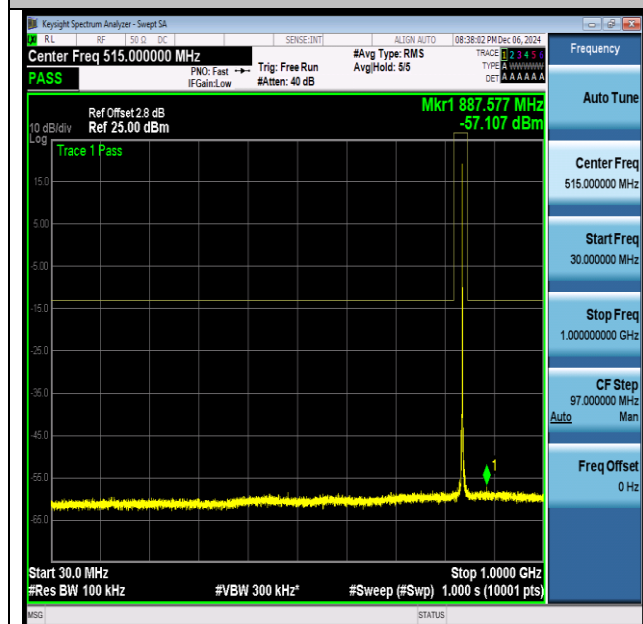
NTNV-N5-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-

Ant1-PASS



NTNV-N5-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



NTNV-N5-PC3-15-10-H-DFT-QPSK-Edge_1RB_Left-

Ant1-PASS



NTNV-N5-PC3-15-10-H-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



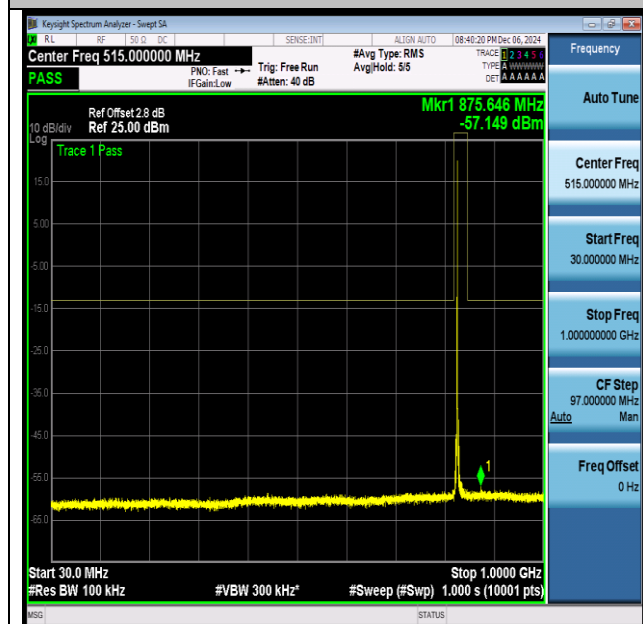
NTNV-N5-PC3-15-15-L-DFT-QPSK-Edge_1RB_Left-

Ant1-PASS



NTNV-N5-PC3-15-15-L-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



NTNV-N5-PC3-15-15-M-DFT-QPSK-Edge_1RB_Left-

Ant1-PASS



NTNV-N5-PC3-15-15-M-DFT-QPSK-Edge_1RB_Left-Ant1-

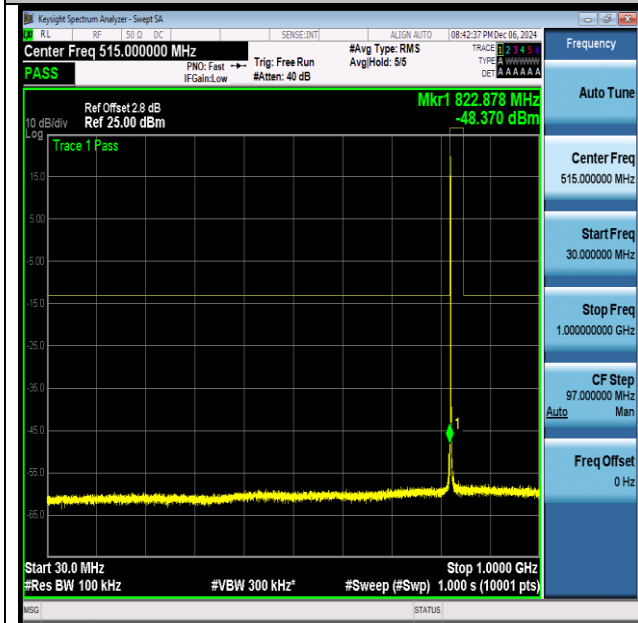
PASS



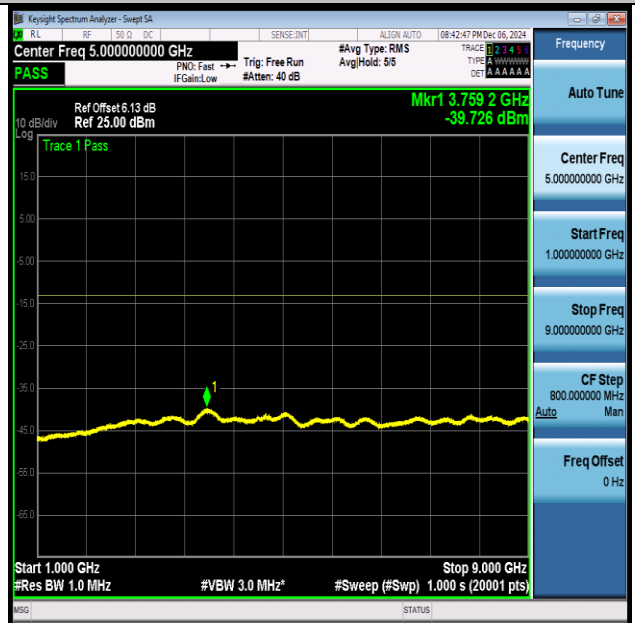
NTNV-N5-PC3-15-15-H-DFT-QPSK-Edge_1RB_Left-Ant1-PASS



NTNV-N5-PC3-15-15-H-DFT-QPSK-Edge_1RB_Left-Ant1-PASS



NTNV-N5-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-Ant1-PASS

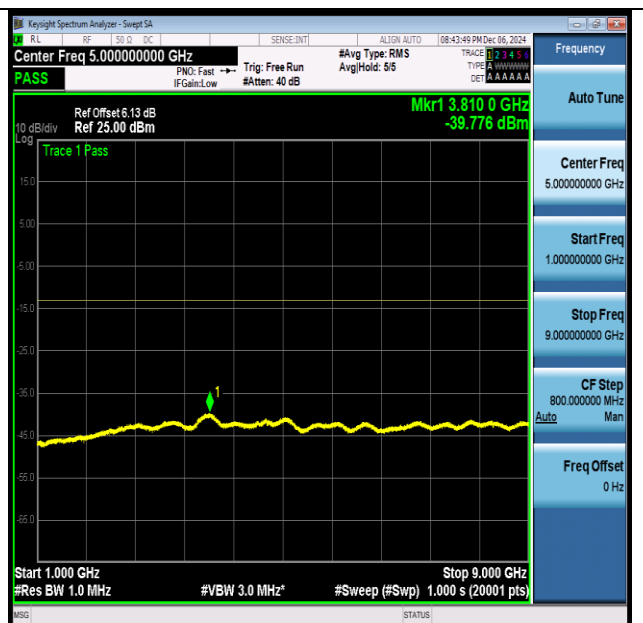


NTNV-N5-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-Ant1-PASS



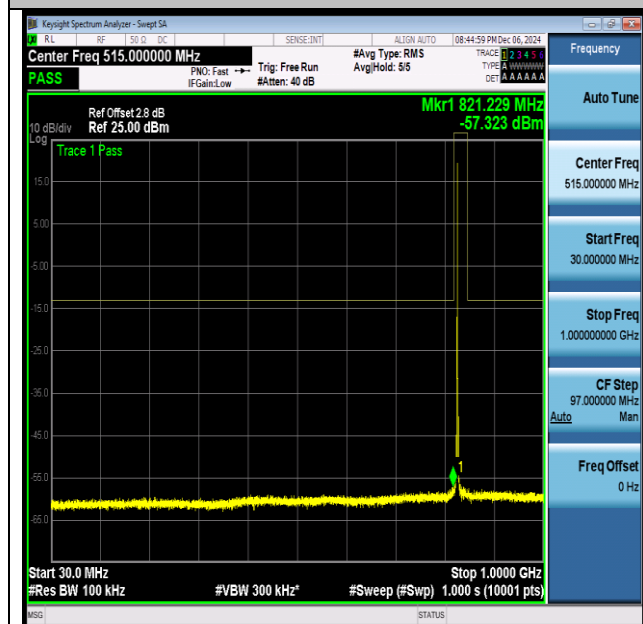
NTNV-N5-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-

Ant1-PASS



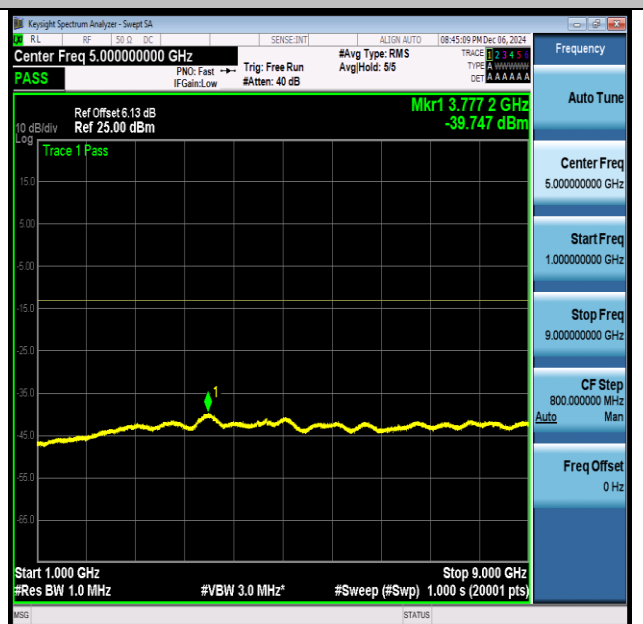
NTNV-N5-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



NTNV-N5-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-

Ant1-PASS



NTNV-N5-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-Ant1-

PASS



FREQUENCY STABILITY FOR SA

TEST RESULT

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	VL	NT	-2.190000	-0.002650	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	VN	NT	-3.968000	-0.004801	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	VH	NT	-3.593000	-0.004347	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	VL	NT	1.060000	0.001267	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	VN	NT	-0.261000	-0.000312	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	VH	NT	1.444000	0.001726	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	VL	NT	-0.206000	-0.000243	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	VN	NT	-1.153000	-0.001362	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	VH	NT	-1.099000	-0.001298	PASS



Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	NV	-30	-3.339000	-0.004040	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	-20	-3.938000	-0.004765	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	-10	-2.819000	-0.003411	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	0	-3.231000	-0.003909	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	10	-2.166000	-0.002621	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	20	-3.348000	-0.004051	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	30	-3.776000	-0.004569	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	40	-3.506000	-0.004242	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	50	-4.209000	-0.005093	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	-30	0.710000	0.000849	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	-20	0.533000	0.000637	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	-10	1.075000	0.001285	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	0	0.127000	0.000152	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	10	-0.102000	-0.000122	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	20	0.620000	0.000741	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	30	0.397000	0.000475	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	40	1.894000	0.002264	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	50	0.757000	0.000905	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	-30	-3.211000	-0.003793	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	-20	-2.019000	-0.002385	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	-10	-1.769000	-0.002090	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	0	-2.682000	-0.003168	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	10	-1.689000	-0.001994	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	20	-0.350000	-0.000413	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	30	-1.682000	-0.001987	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	40	-1.638000	-0.001935	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	50	-1.352000	-0.001597	PASS



N7

PEAK-TO-AVERAGE RATIO FOR SA

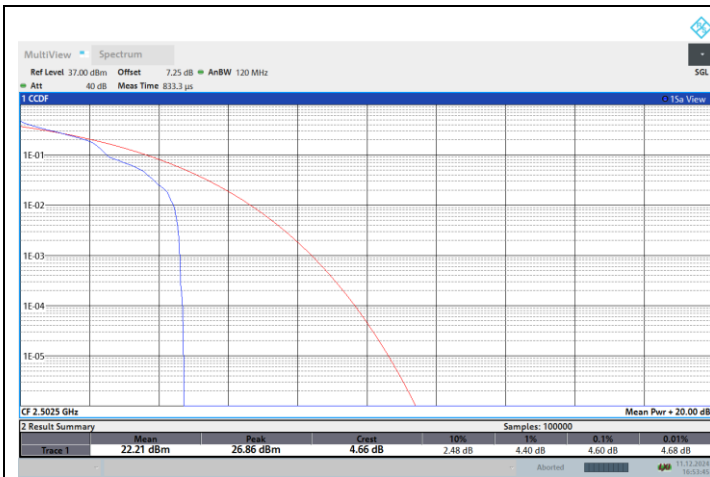
PEAK-TO-AVERAGE RATIO(CCDF)

TEST RESULT

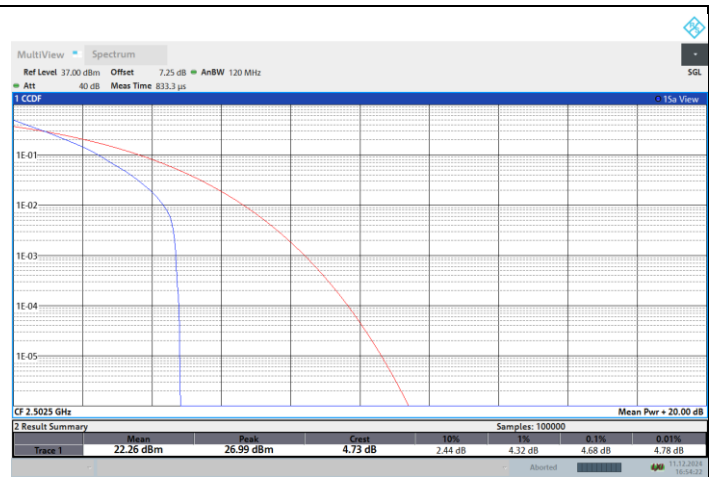
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N7	15	5	DFT-QPSK	L	Outer_Full	4.60	≤13	PASS
N7	15	5	DFT-QPSK	L	Edge_1RB_Left	4.68	≤13	PASS
N7	15	5	DFT-QPSK	M	Outer_Full	5.40	≤13	PASS
N7	15	5	DFT-QPSK	M	Edge_1RB_Left	4.76	≤13	PASS
N7	15	5	DFT-QPSK	H	Outer_Full	4.92	≤13	PASS
N7	15	5	DFT-QPSK	H	Edge_1RB_Left	5.30	≤13	PASS
N7	15	10	DFT-QPSK	L	Outer_Full	5.10	≤13	PASS
N7	15	10	DFT-QPSK	L	Edge_1RB_Left	4.96	≤13	PASS
N7	15	10	DFT-QPSK	M	Outer_Full	5.06	≤13	PASS
N7	15	10	DFT-QPSK	M	Edge_1RB_Left	4.22	≤13	PASS
N7	15	10	DFT-QPSK	H	Outer_Full	4.92	≤13	PASS
N7	15	10	DFT-QPSK	H	Edge_1RB_Left	4.80	≤13	PASS
N7	15	15	DFT-QPSK	L	Outer_Full	5.14	≤13	PASS
N7	15	15	DFT-QPSK	L	Edge_1RB_Left	4.98	≤13	PASS
N7	15	15	DFT-QPSK	M	Outer_Full	5.00	≤13	PASS
N7	15	15	DFT-QPSK	M	Edge_1RB_Left	4.56	≤13	PASS
N7	15	15	DFT-QPSK	H	Outer_Full	5.12	≤13	PASS
N7	15	15	DFT-QPSK	H	Edge_1RB_Left	4.86	≤13	PASS
N7	15	20	DFT-QPSK	L	Outer_Full	5.18	≤13	PASS
N7	15	20	DFT-QPSK	L	Edge_1RB_Left	4.24	≤13	PASS
N7	15	20	DFT-QPSK	M	Outer_Full	5.12	≤13	PASS
N7	15	20	DFT-QPSK	M	Edge_1RB_Left	4.32	≤13	PASS
N7	15	20	DFT-QPSK	H	Outer_Full	5.34	≤13	PASS
N7	15	20	DFT-QPSK	H	Edge_1RB_Left	3.90	≤13	PASS



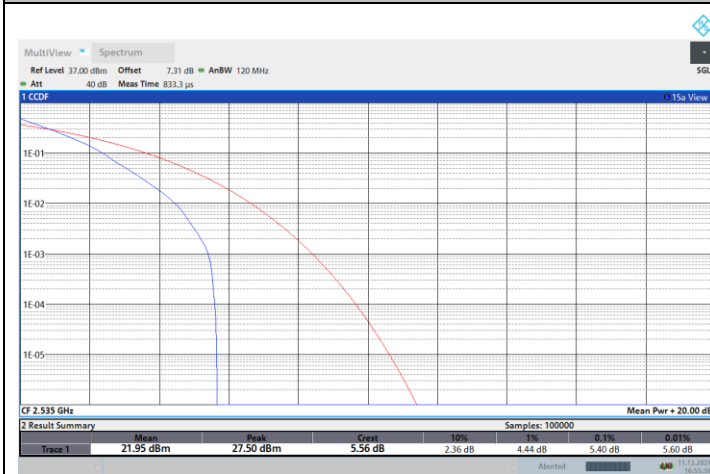
TEST GRAPHS



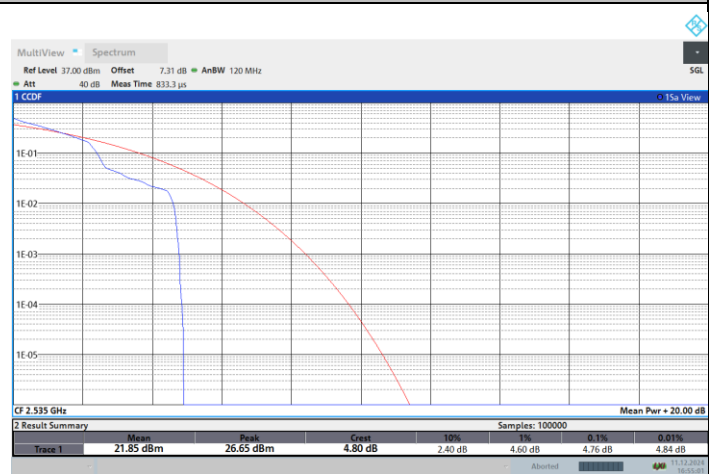
NTNV-N7-PC3-15-5-L-DFT-QPSK-Outer_Full-PASS



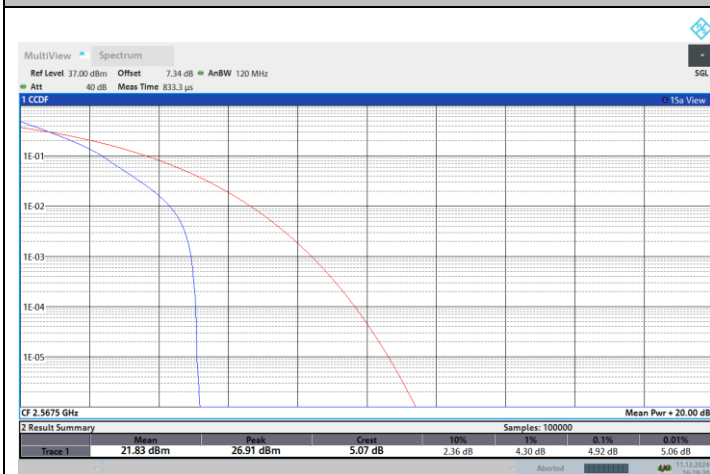
NTNV-N7-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-PASS



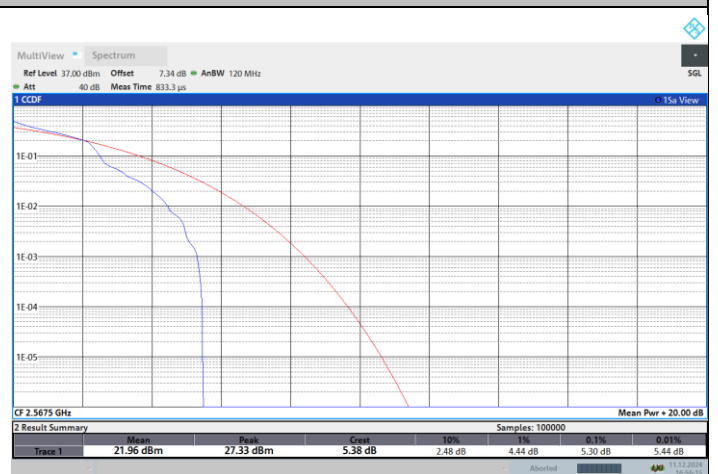
NTNV-N7-PC3-15-5-M-DFT-QPSK-Outer_Full-PASS



NTNV-N7-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-PASS



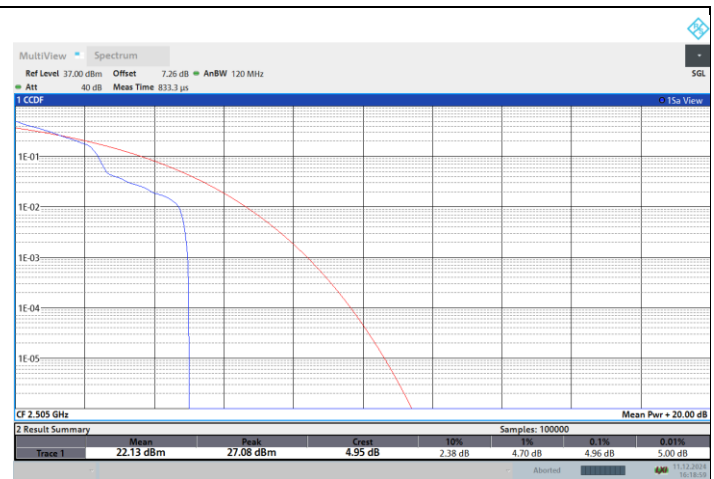
NTNV-N7-PC3-15-5-H-DFT-QPSK-Outer_Full-PASS



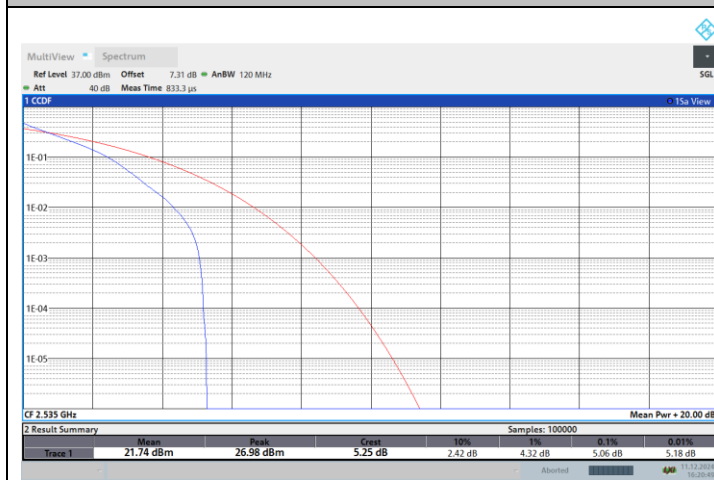
NTNV-N7-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-PASS



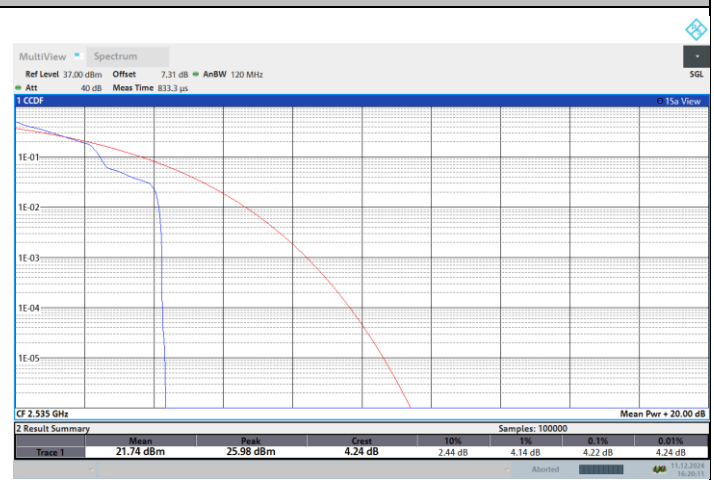
NTNV-N7-PC3-15-10-L-DFT-QPSK-Outer_Full-PASS



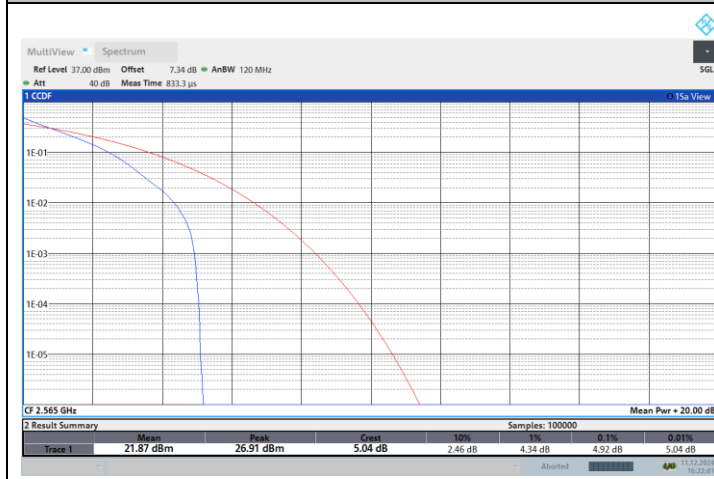
NTNV-N7-PC3-15-10-L-DFT-QPSK-Edge_1RB_Left-PASS



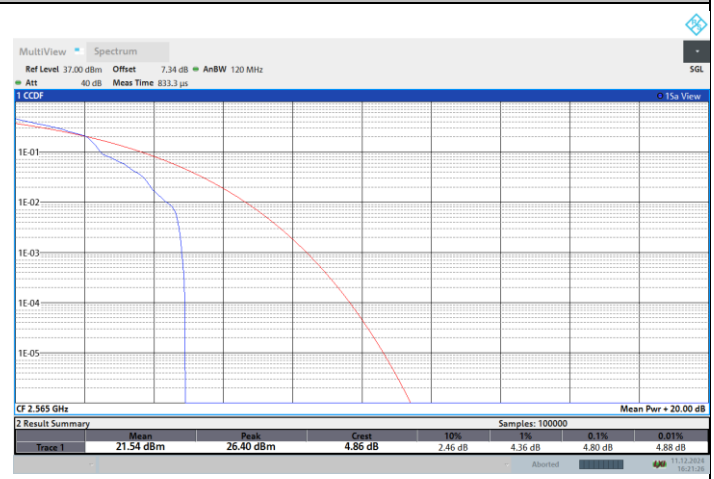
NTNV-N7-PC3-15-10-M-DFT-QPSK-Outer_Full-PASS



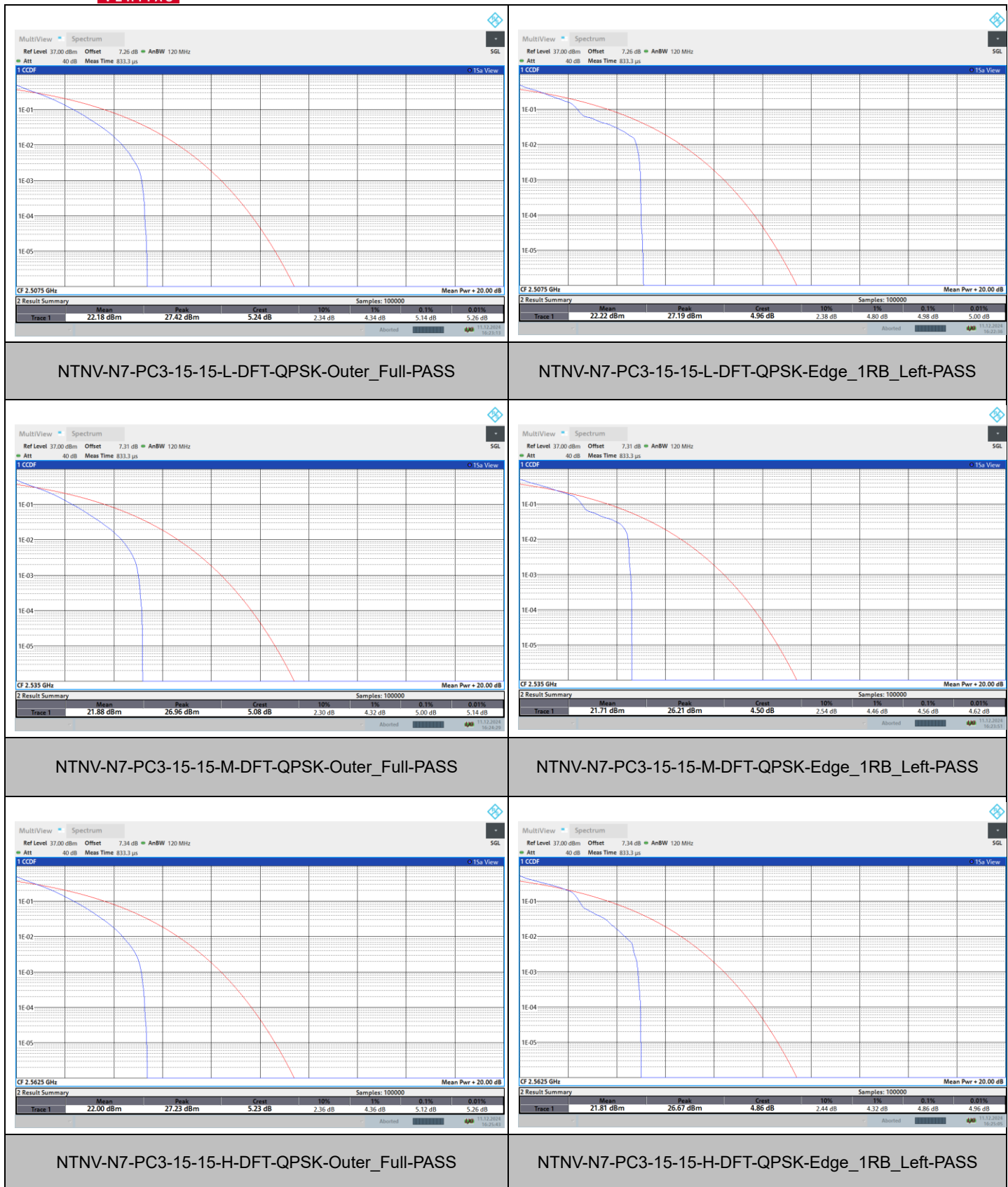
NTNV-N7-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-PASS

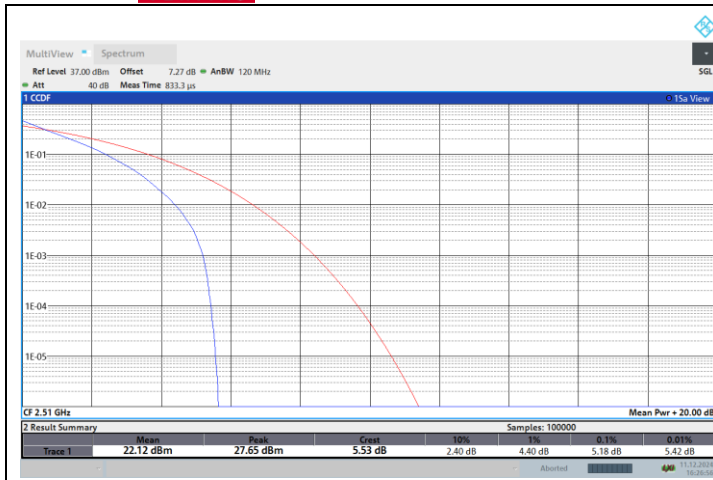


NTNV-N7-PC3-15-10-H-DFT-QPSK-Outer_Full-PASS

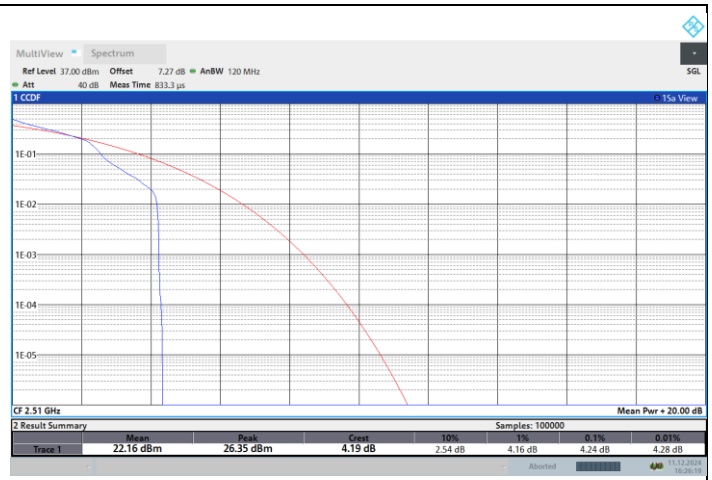


NTNV-N7-PC3-15-10-H-DFT-QPSK-Edge_1RB_Left-PASS

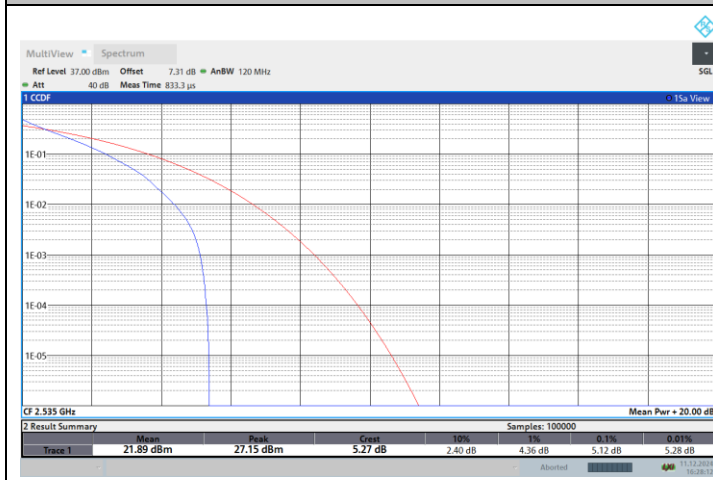




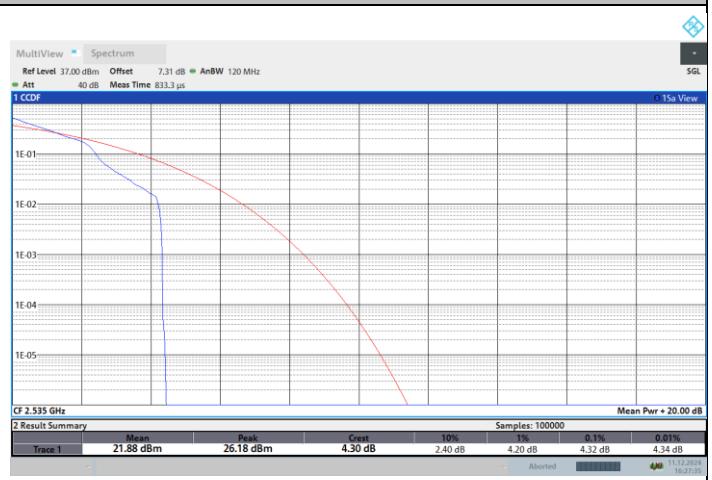
NTN-N7-PC3-15-20-L-DFT-QPSK-Outer_Full-PASS



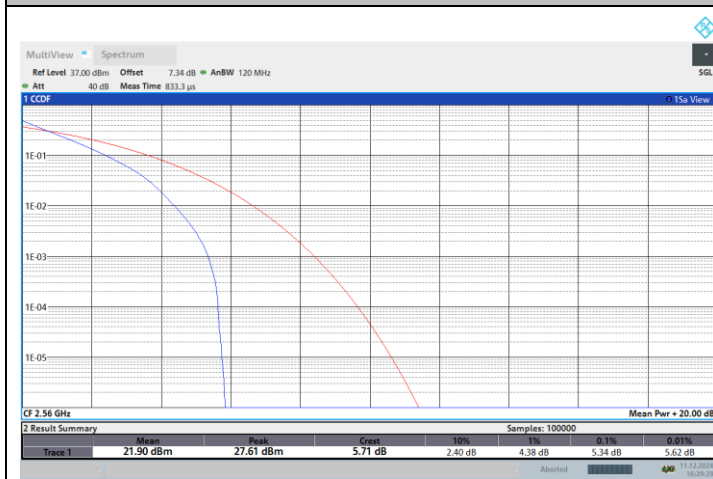
NTN-N7-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-PASS



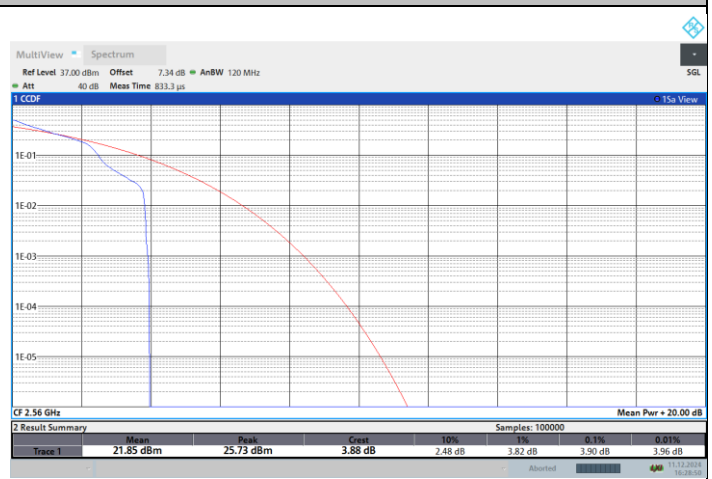
NTN-N7-PC3-15-20-M-DFT-QPSK-Outer_Full-PASS



NTN-N7-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-PASS



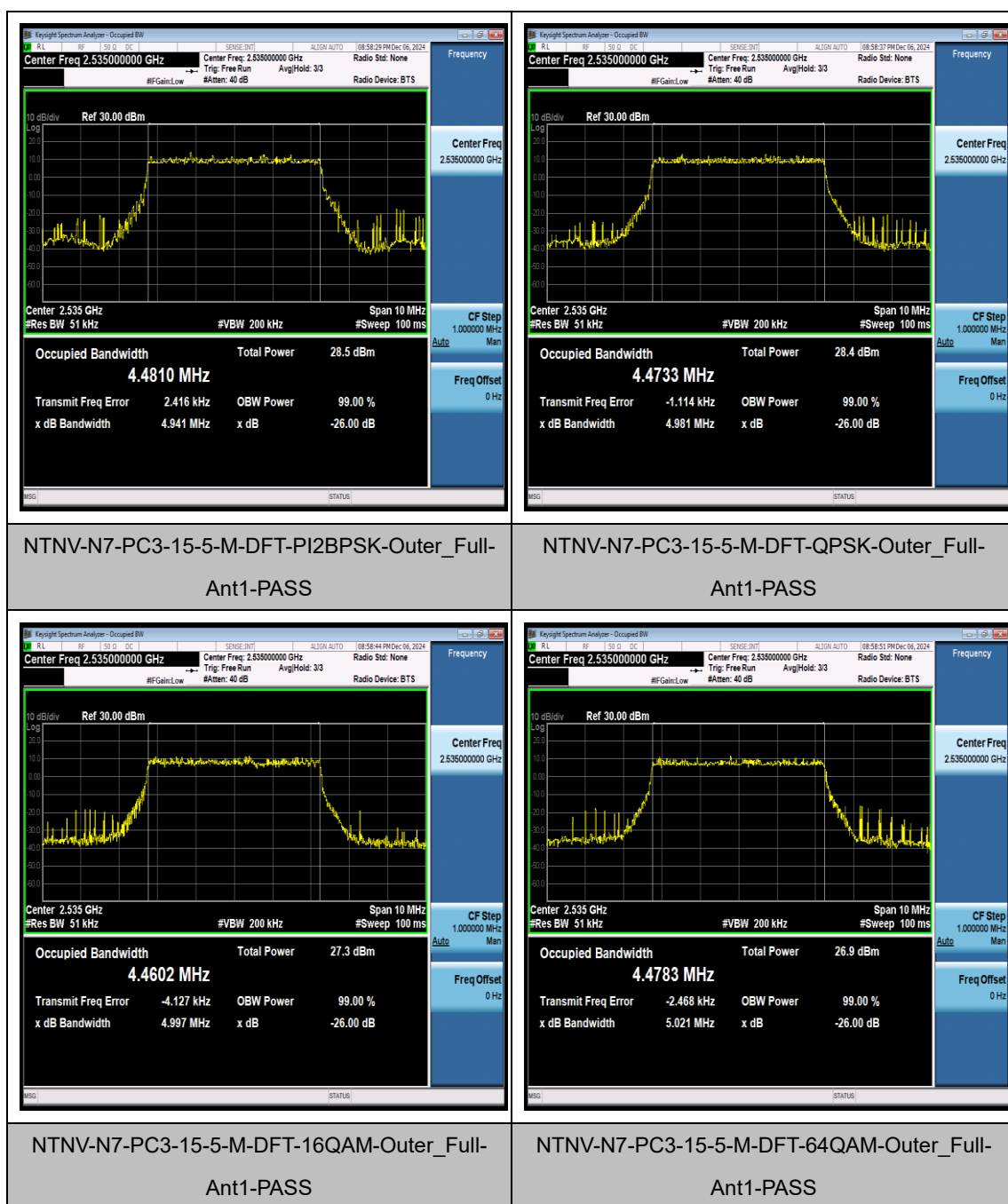
NTN-N7-PC3-15-20-H-DFT-QPSK-Outer_Full-PASS

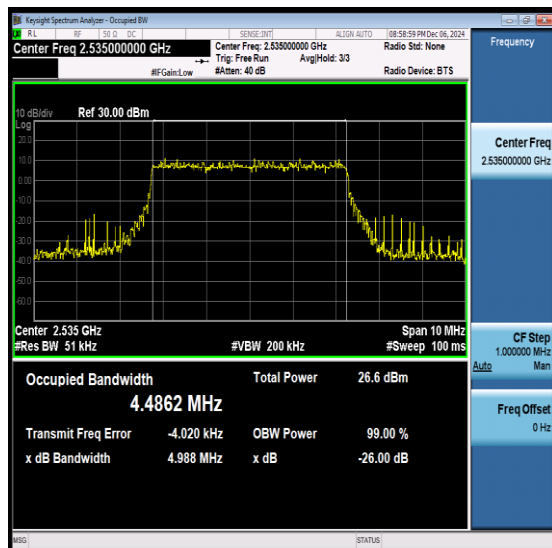


NTN-N7-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-PASS

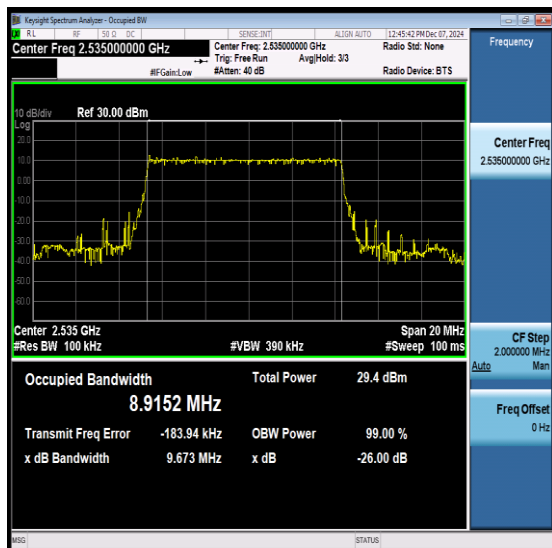
**26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA****TEST RESULT**

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N7	15	5	DFT-PI2BPSK	M	Outer_Full	4.4810	4.941	PASS
N7	15	5	DFT-QPSK	M	Outer_Full	4.4733	4.981	PASS
N7	15	5	DFT-16QAM	M	Outer_Full	4.4602	4.997	PASS
N7	15	5	DFT-64QAM	M	Outer_Full	4.4783	5.021	PASS
N7	15	5	DFT-256QAM	M	Outer_Full	4.4862	4.988	PASS
N7	15	10	DFT-PI2BPSK	M	Outer_Full	8.9152	9.673	PASS
N7	15	10	DFT-QPSK	M	Outer_Full	8.9127	9.684	PASS
N7	15	10	DFT-16QAM	M	Outer_Full	8.9415	9.558	PASS
N7	15	10	DFT-64QAM	M	Outer_Full	8.9250	9.512	PASS
N7	15	10	DFT-256QAM	M	Outer_Full	8.9138	9.423	PASS
N7	15	15	DFT-PI2BPSK	M	Outer_Full	13.395	14.49	PASS
N7	15	15	DFT-QPSK	M	Outer_Full	13.388	14.72	PASS
N7	15	15	DFT-16QAM	M	Outer_Full	13.406	14.19	PASS
N7	15	15	DFT-64QAM	M	Outer_Full	13.384	14.33	PASS
N7	15	15	DFT-256QAM	M	Outer_Full	13.393	14.75	PASS
N7	15	20	DFT-PI2BPSK	M	Outer_Full	17.896	20.52	PASS
N7	15	20	DFT-QPSK	M	Outer_Full	17.878	19.75	PASS
N7	15	20	DFT-16QAM	M	Outer_Full	17.985	22.26	PASS
N7	15	20	DFT-64QAM	M	Outer_Full	17.897	18.70	PASS
N7	15	20	DFT-256QAM	M	Outer_Full	17.864	18.92	PASS

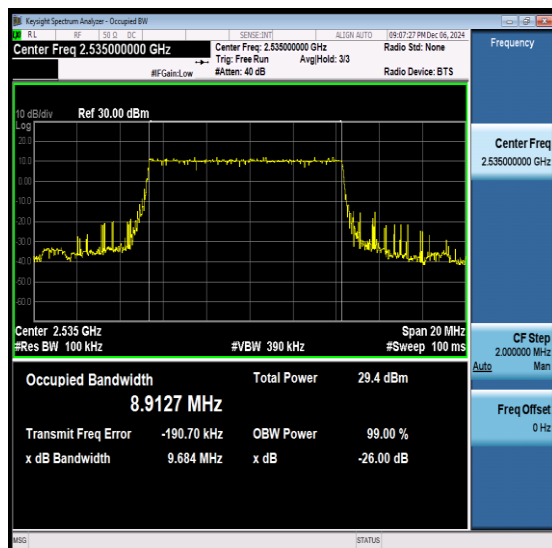




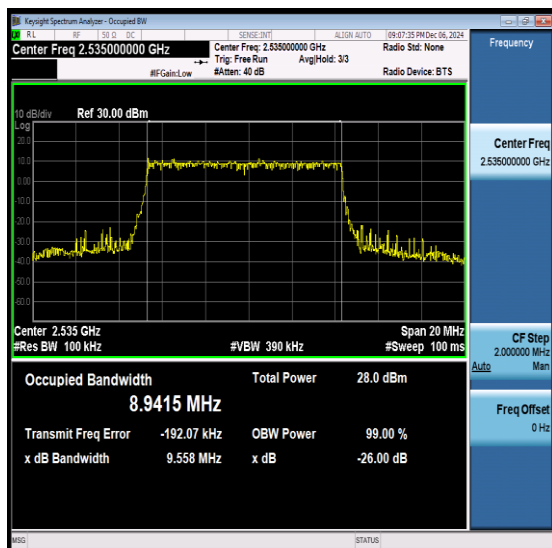
NTNV-N7-PC3-15-5-M-DFT-256QAM-Outer_Full-
Ant1-PASS



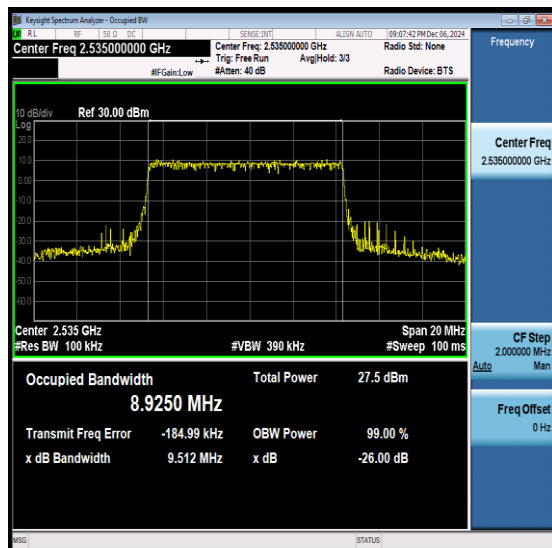
NTNV-N7-PC3-15-10-M-DFT-PI2BPSK-
Outer_Full-Ant1-PASS



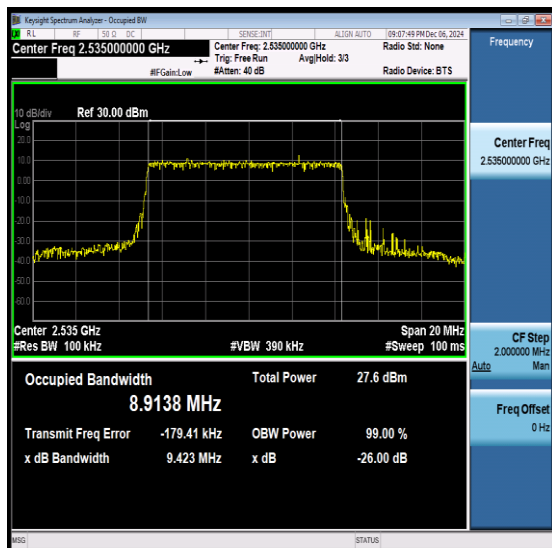
NTNV-N7-PC3-15-10-M-DFT-QPSK-Outer_Full-
Ant1-PASS



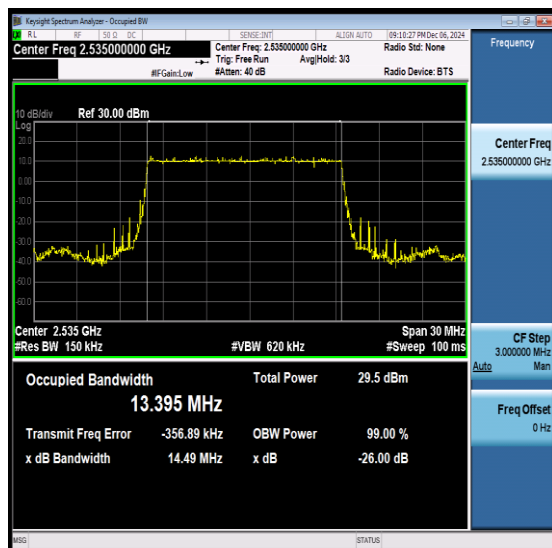
NTNV-N7-PC3-15-10-M-DFT-16QAM-Outer_Full-
Ant1-PASS



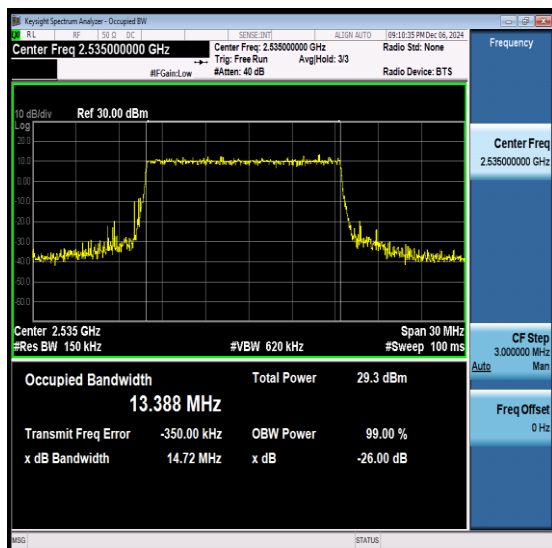
NTNV-N7-PC3-15-10-M-DFT-64QAM-Outer_Full-
Ant1-PASS



NTNV-N7-PC3-15-10-M-DFT-256QAM-Outer_Full-
Ant1-PASS



NTNV-N7-PC3-15-15-M-DFT-PI2BPSK-
Outer_Full-Ant1-PASS



NTNV-N7-PC3-15-15-M-DFT-QPSK-Outer_Full-
Ant1-PASS

