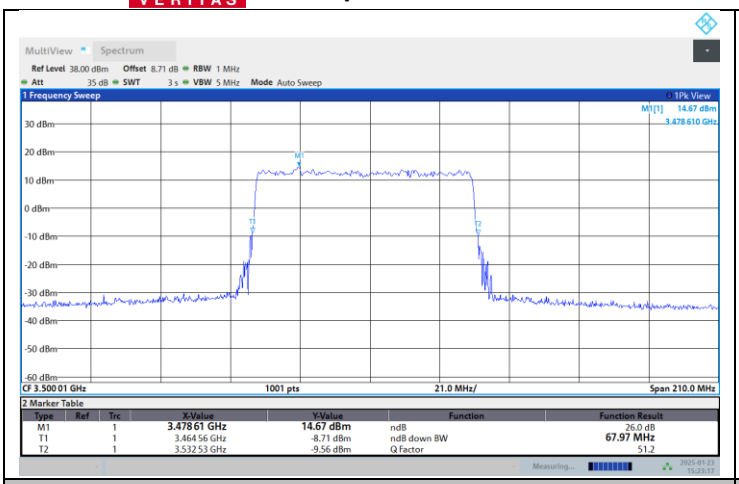
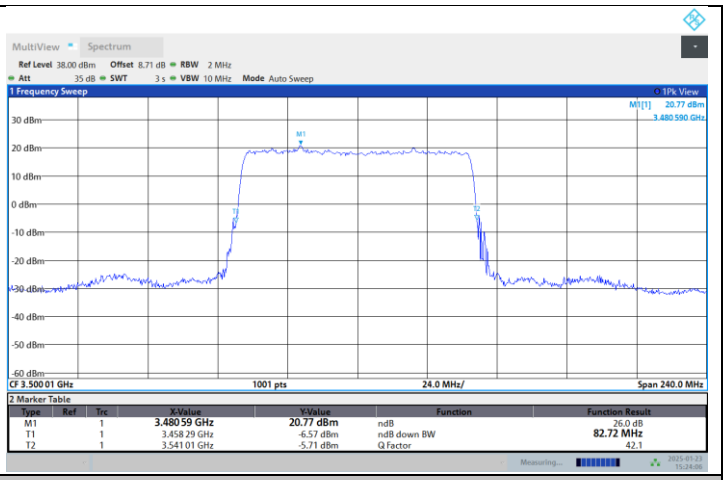


N77-3450-3550-PC2-30-70-M-DFT-256QAM-Outer_Full



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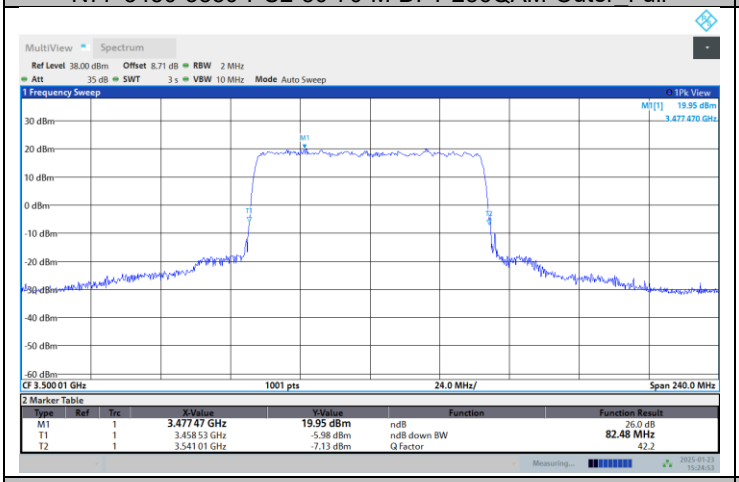

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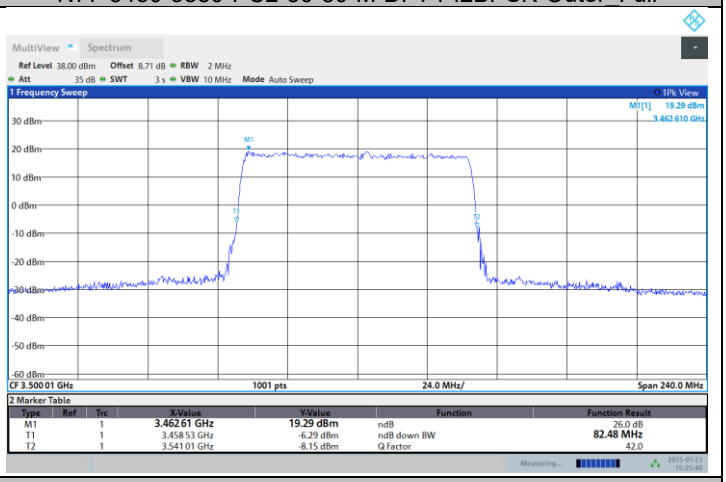

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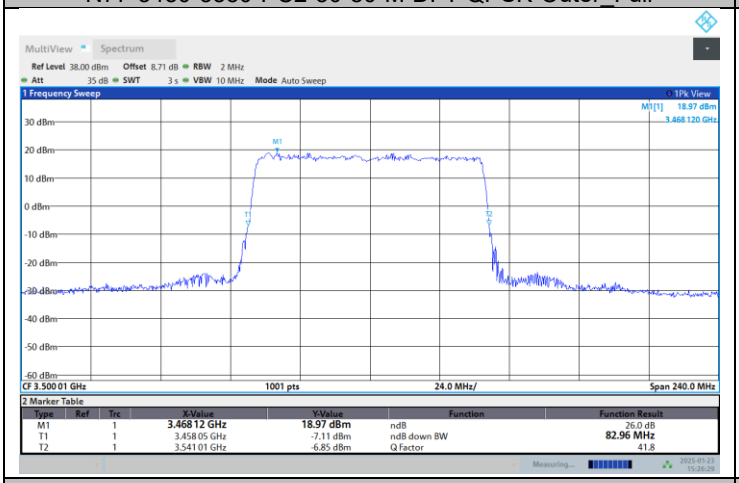

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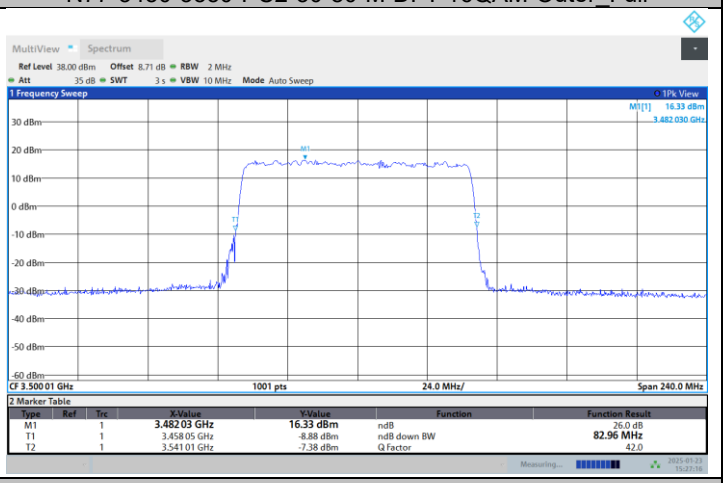

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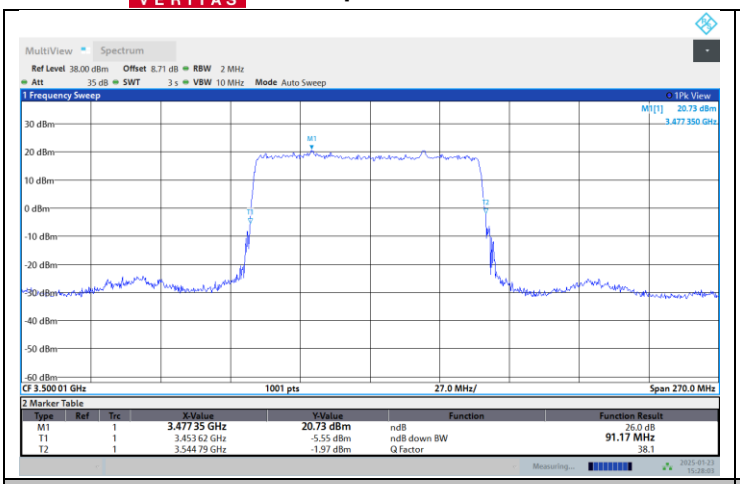

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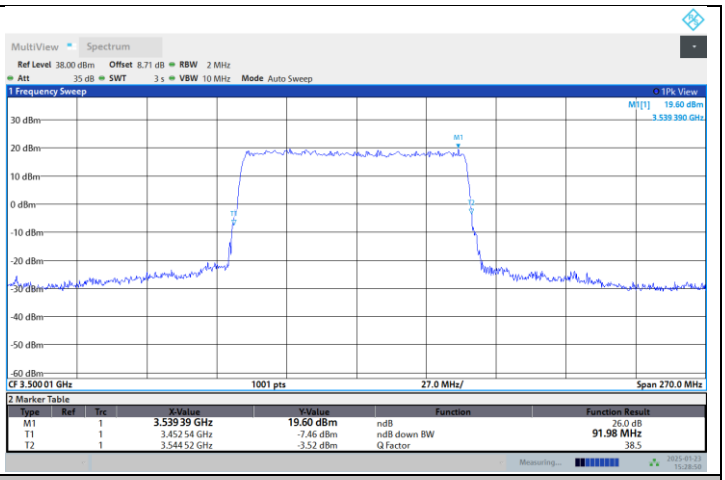

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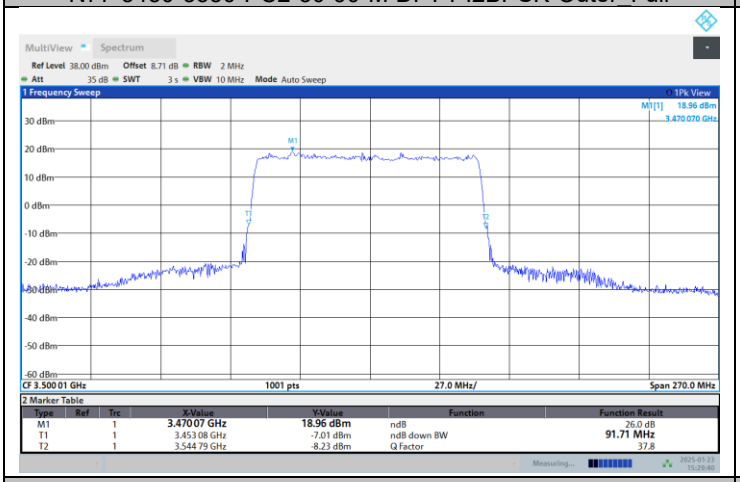

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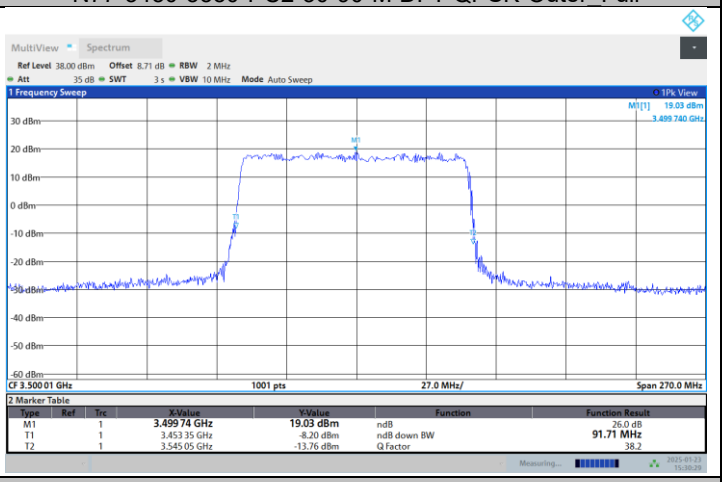

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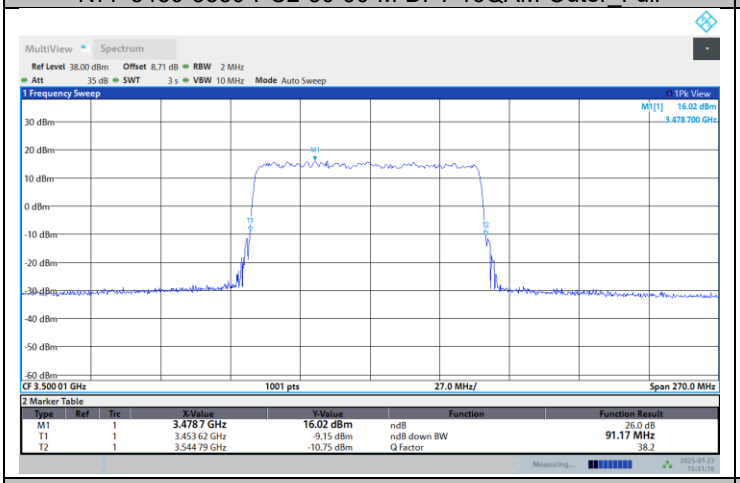

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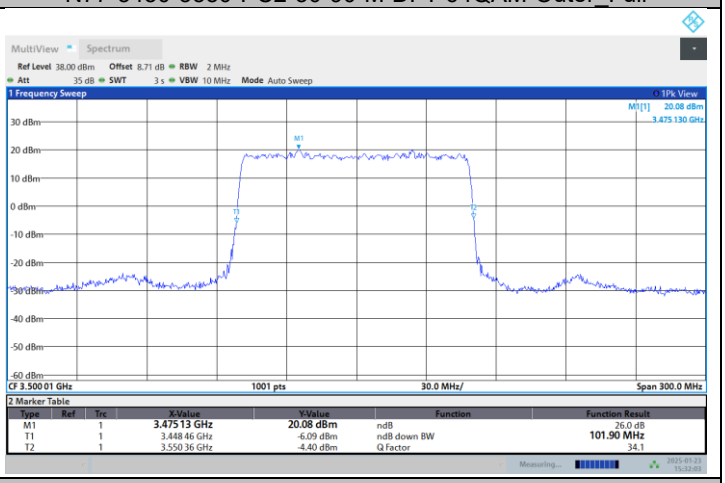
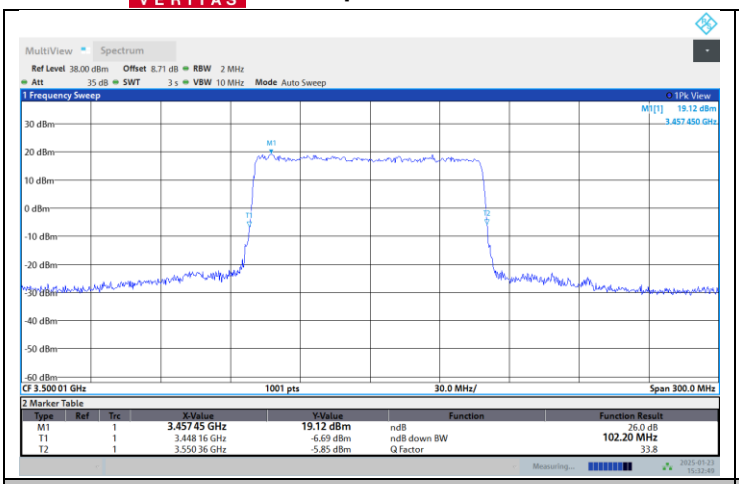
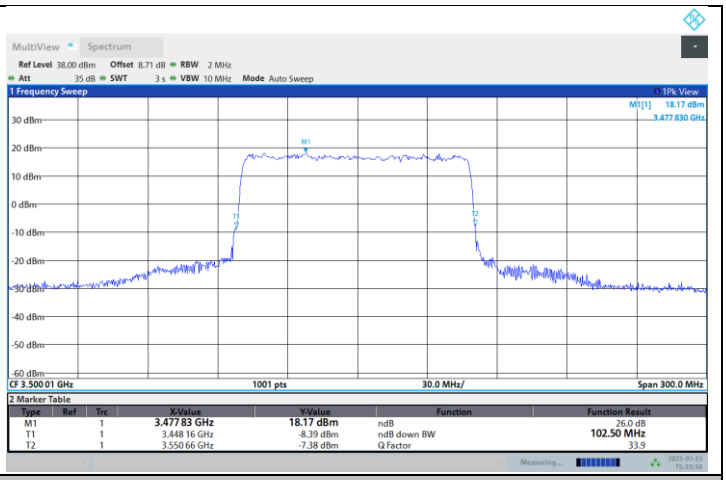


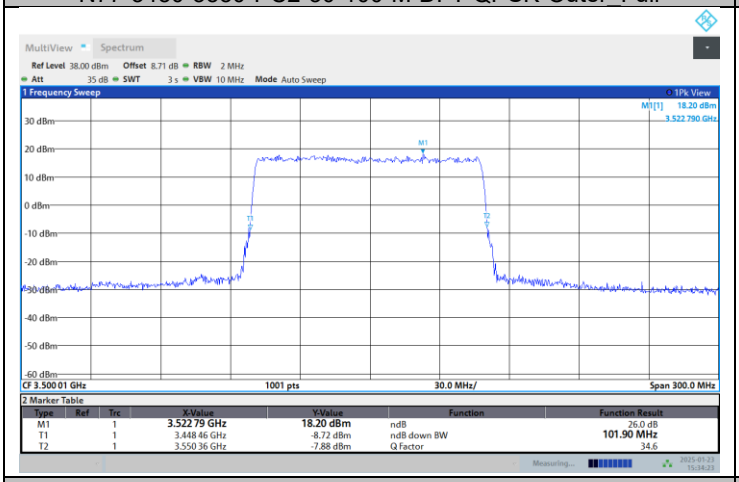
N77-3450-3550-PC2-30-100-M-DFT-PI2BPSK-Outer_Full



N77-3450-3550-PC2-30-100-M-DFT-QPSK-Outer_Full



N77-3450-3550-PC2-30-100-M-DFT-16QAM-Outer_Full



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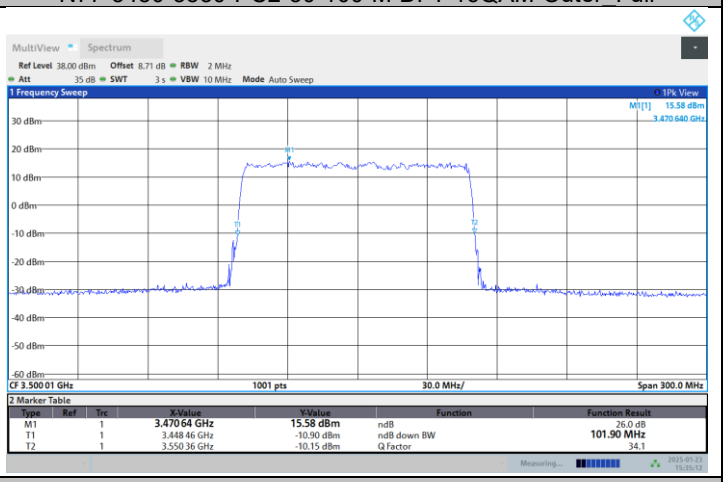


N77-3450-3550-PC2-30-100-M-DFT-256QAM-Outer_Full

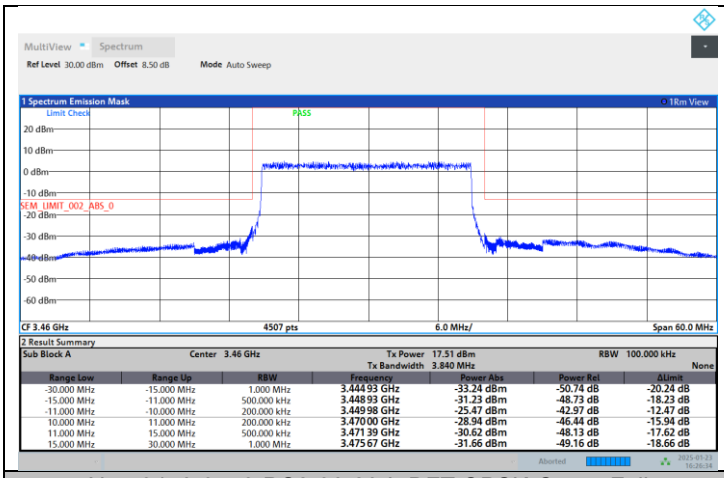
BAND EDGE FOR SA

Test Result

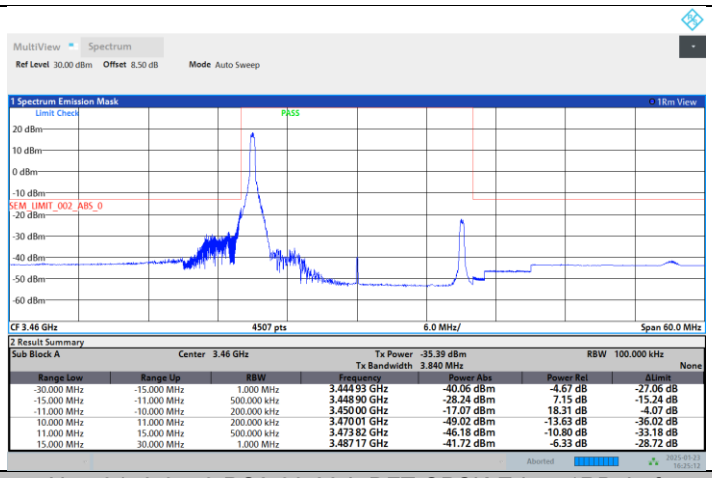
NOTE: Pre-scan QPSK,16QAM,64QAM, 256QAM four modulations modes, only the worst mode and data reflected in the report.

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	See Graph	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	See Graph	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N77-3450-3550	30	60	DFT-QPSK	L	Outer_Full	See Graph	PASS
N77-3450-3550	30	60	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N77-3450-3550	30	60	DFT-QPSK	H	Outer_Full	See Graph	PASS
N77-3450-3550	30	60	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Outer_Full	See Graph	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Edge_1RB_Left	See Graph	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Edge_1RB_Right	See Graph	PASS

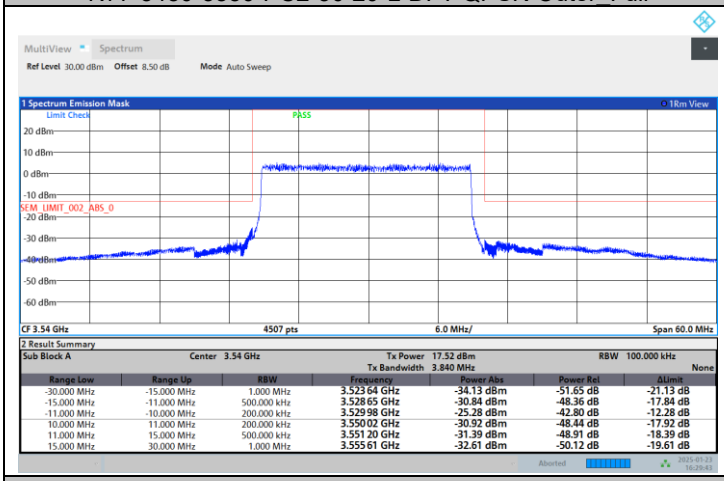
Test Graphs



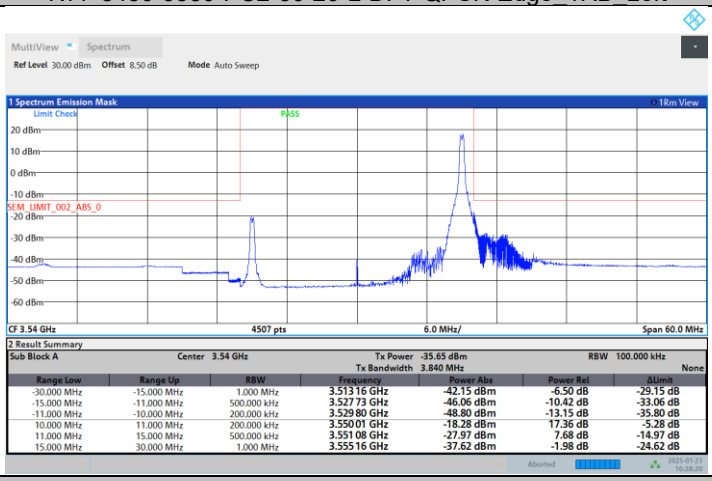
N77-3450-3550-PC2-30-20-L-DFT-QPSK-Outer_Full



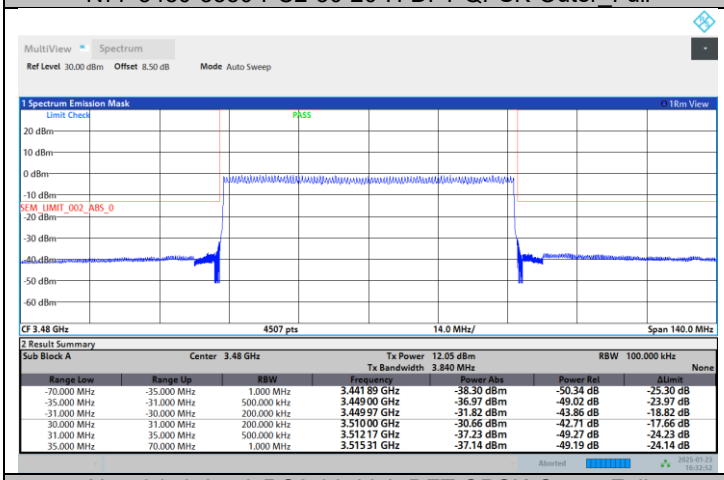
N77-3450-3550-PC2-30-20-L-DFT-QPSK-Edge_1RB_Left



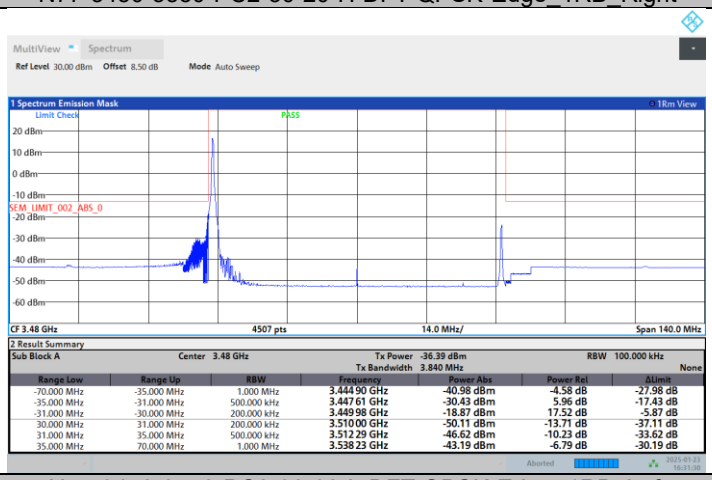
N77-3450-3550-PC2-30-20-H-DFT-QPSK-Outer_Full



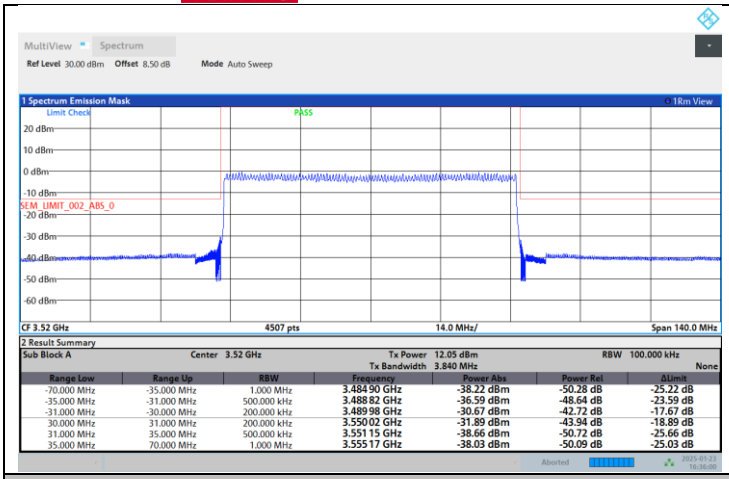
N77-3450-3550-PC2-30-20-H-DFT-QPSK-Edge_1RB_Right



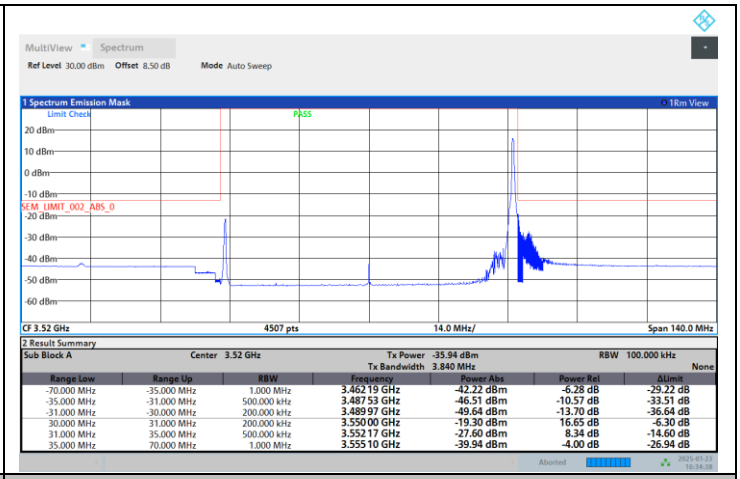
N77-3450-3550-PC2-30-60-L-DFT-QPSK-Outer_Full



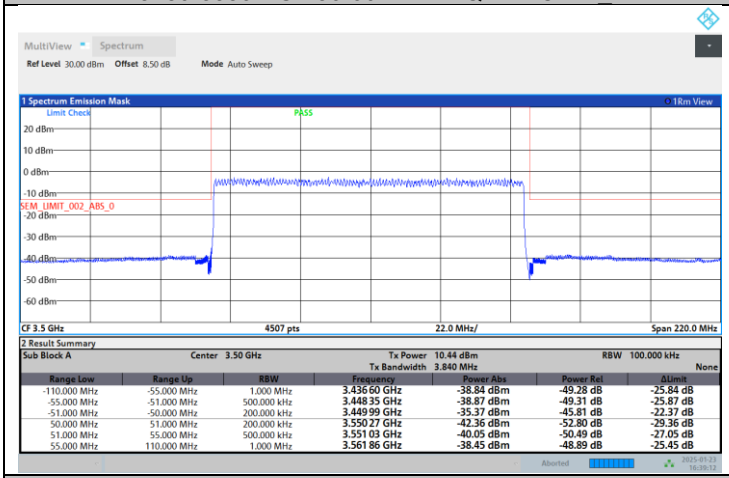
N77-3450-3550-PC2-30-60-L-DFT-QPSK-Edge_1RB_Left



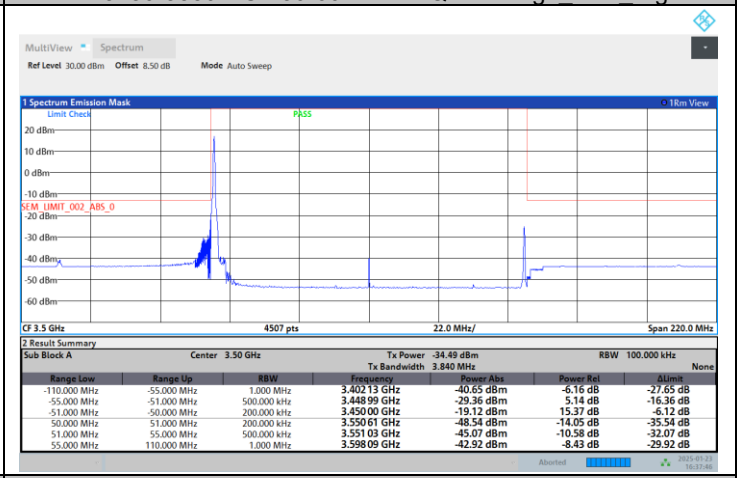
N77-3450-3550-PC2-30-60-H-DFT-QPSK-Outer_Full



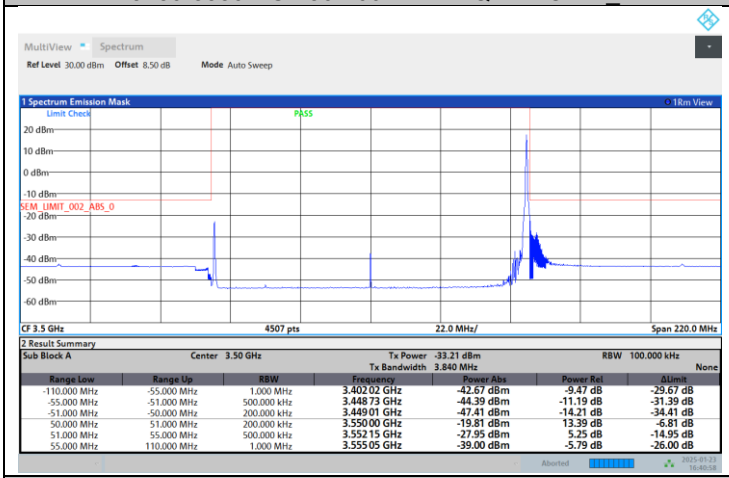
N77-3450-3550-PC2-30-60-H-DFT-QPSK-Edge_1RB_Right



N77-3450-3550-PC2-30-100-M-DFT-QPSK-Outer_Full



N77-3450-3550-PC2-30-100-M-DFT-QPSK-Edge_1RB_Left



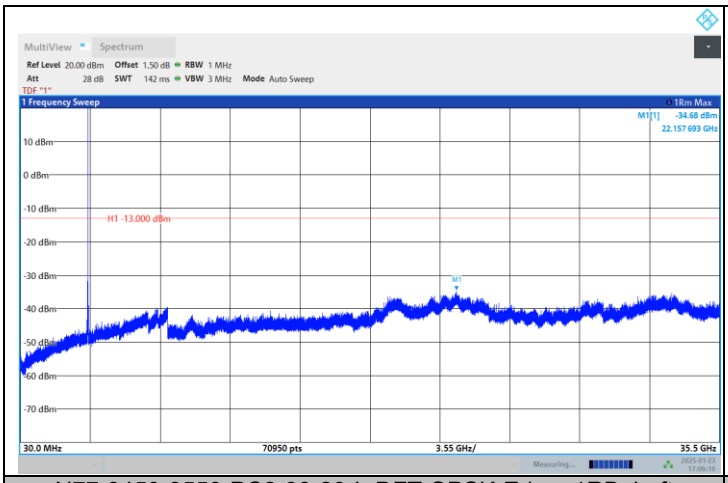
N77-3450-3550-PC2-30-100-M-DFT-QPSK-Edge_1RB_Right

CONDUCTED SPURIOUS EMISSION FOR SA

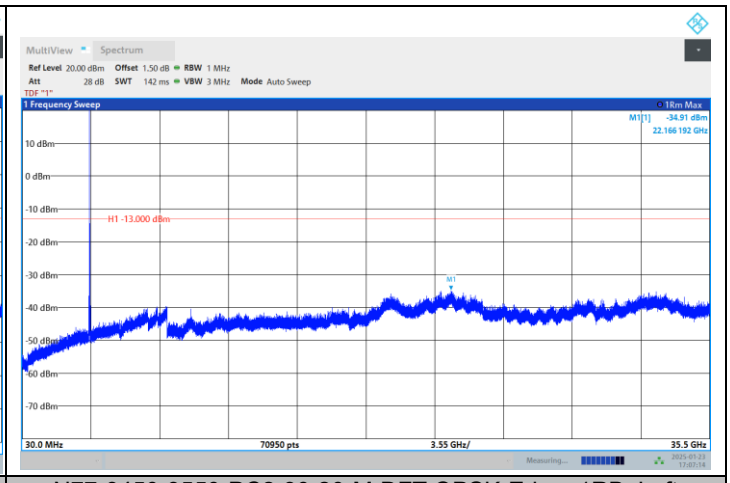
Test Result

Band	SCS	Band width	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N77-3450-3550	30	20	DFT-QPSK	L	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	60	DFT-QPSK	L	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	60	DFT-QPSK	M	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	60	DFT-QPSK	H	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Edge_1RB_Left	30	35500	See Graph	-13	PASS

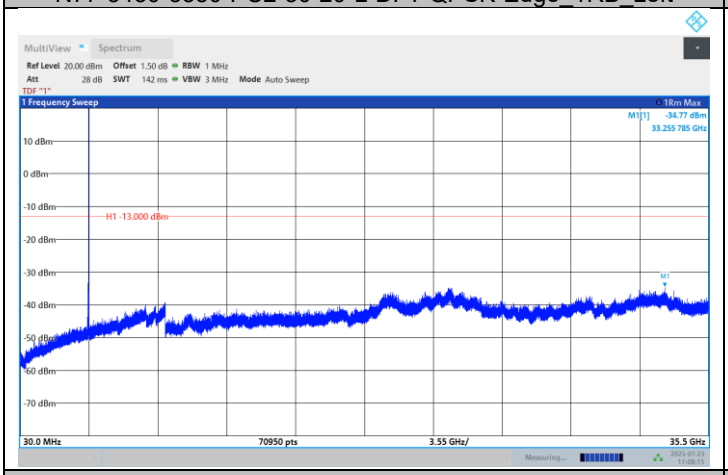
Test Graphs



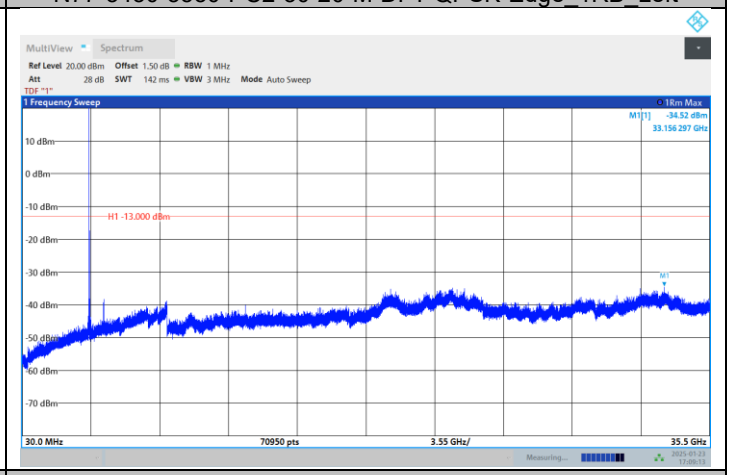
N77-3450-3550-PC2-30-20-L-DFT-QPSK-Edge_1RB_Left



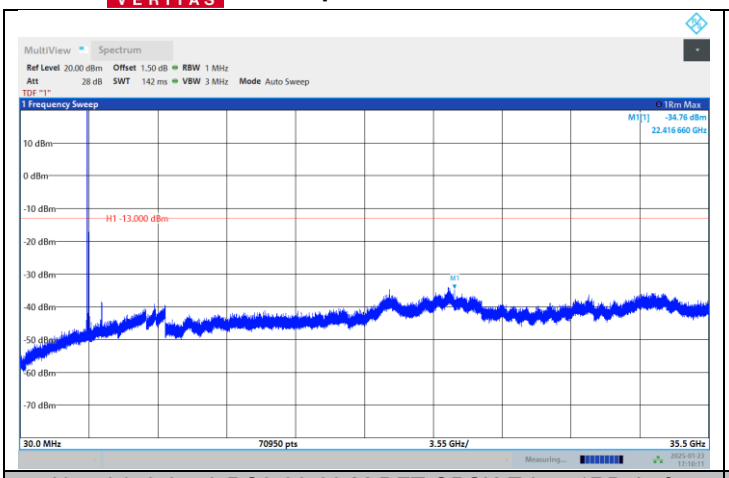
N77-3450-3550-PC2-30-20-M-DFT-QPSK-Edge_1RB_Left



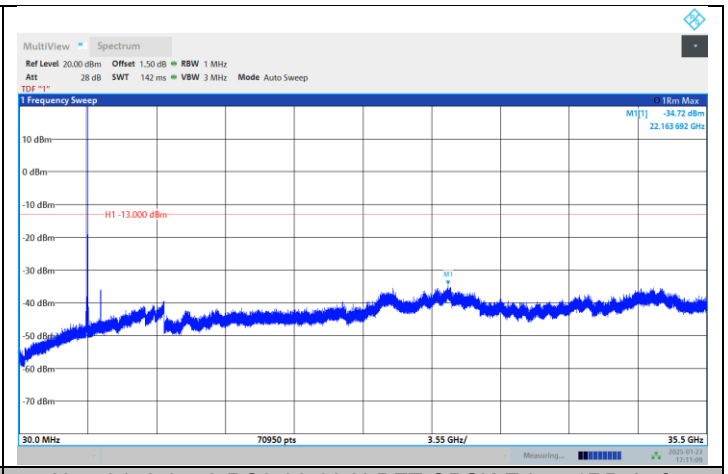
N77-3450-3550-PC2-30-20-H-DFT-QPSK-Edge_1RB_Left



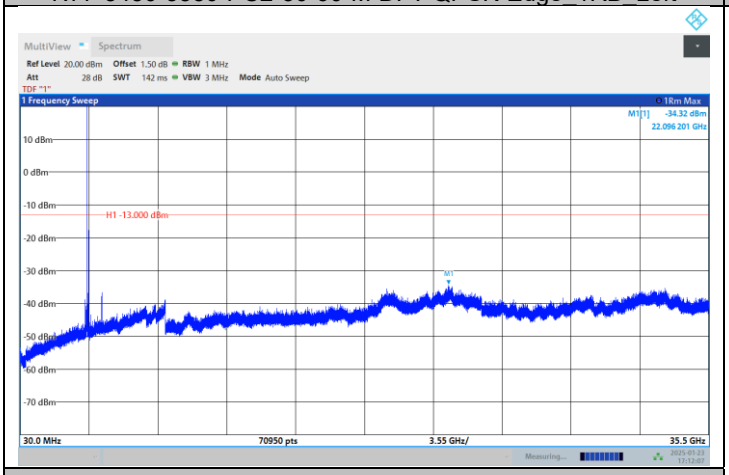
N77-3450-3550-PC2-30-60-L-DFT-QPSK-Edge_1RB_Left



N77-3450-3550-PC2-30-60-M-DFT-QPSK-Edge_1RB_Left



N77-3450-3550-PC2-30-60-H-DFT-QPSK-Edge_1RB_Left



N77-3450-3550-PC2-30-100-M-DFT-QPSK-Edge_1RB_Left

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
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	VL	NT	-5.00	-0.0014	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	VN	NT	14.00	0.0040	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	VH	NT	0.00	0.0000	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	VL	NT	10.00	0.0029	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	VN	NT	-11.00	-0.0031	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	VH	NT	17.00	0.0049	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	VL	NT	-19.00	-0.0054	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	VN	NT	8.00	0.0023	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	VH	NT	-15.00	-0.0042	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-30	18.00	0.0052	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-20	-20.00	-0.0058	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-10	-15.30	-0.0044	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	0	10.50	0.0030	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	10	5.20	0.0015	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	20	-34.40	-0.0099	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	30	-28.20	-0.0082	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	40	-31.00	-0.0090	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	50	-16.10	-0.0047	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-30	-9.50	-0.0027	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-20	12.00	0.0034	PASS

N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-10	23.40	0.0067	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	0	-19.50	-0.0056	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	10	29.60	0.0085	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	20	-14.90	-0.0043	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	30	-23.70	-0.0068	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	40	-11.00	-0.0031	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	50	7.50	0.0021	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-30	28.00	0.0079	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-20	-1.50	-0.0004	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-10	16.00	0.0045	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	0	15.10	0.0043	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	10	-1.90	-0.0005	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	20	-3.00	-0.0008	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	30	5.50	0.0016	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	40	26.10	0.0074	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	50	-11.70	-0.0033	PASS

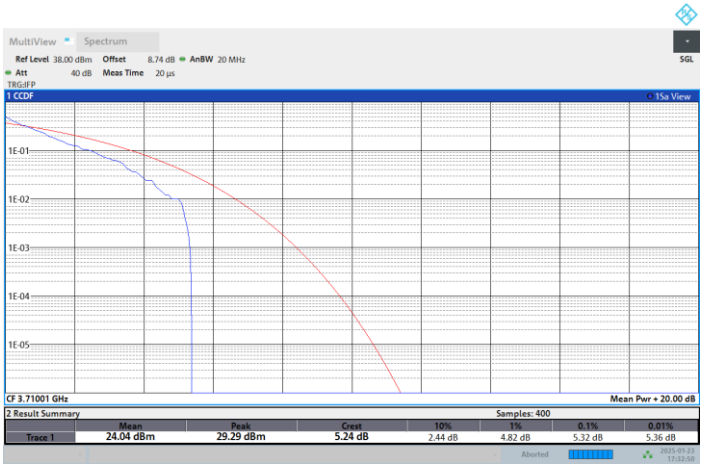
N77-3700-3980

PEAK-TO-AVERAGE RATIO FOR SA

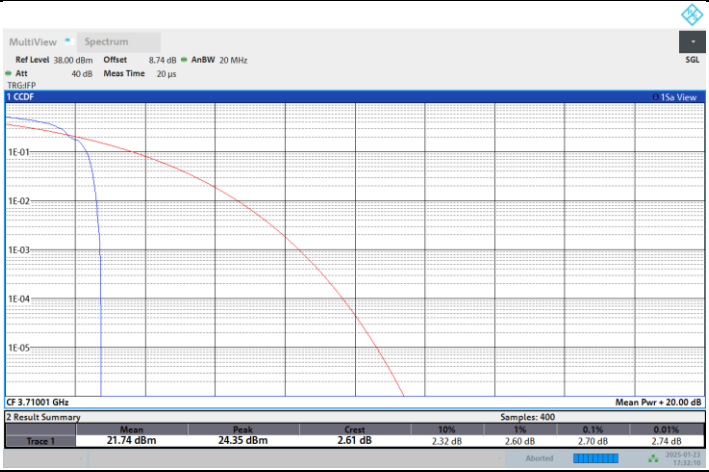
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N77-3700-3980	30	20	DFT-QPSK	L	Outer_Full	5.32	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	L	Edge_1RB_Left	2.70	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Outer_Full	6.74	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Edge_1RB_Left	2.46	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Outer_Full	4.48	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Edge_1RB_Left	6.02	≤13	PASS

Test Graphs

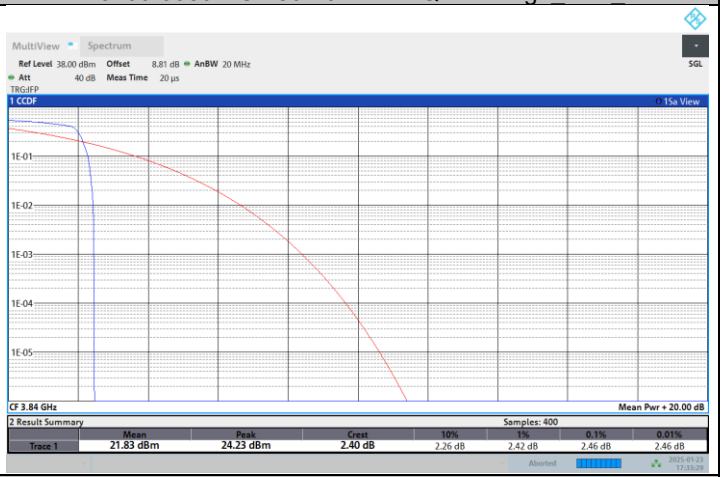


N77-3700-3980-PC2-30-20-L-DFT-QPSK-Outer_Full

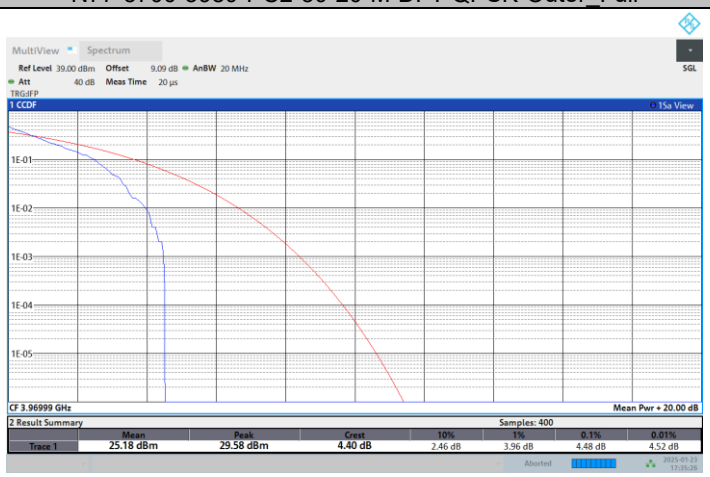


N77-3700-3980-PC2-30-20-L-DFT-QPSK-Edge_1RB_Left

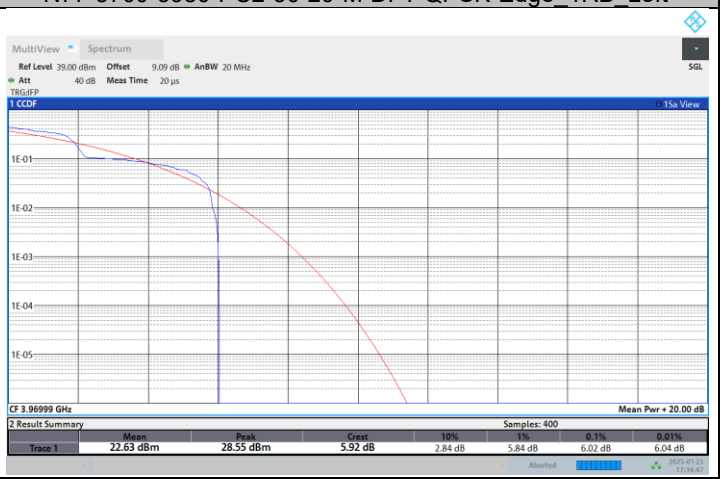
N77-3700-3980-PC2-30-20-M-DFT-QPSK-Outer_Full



N77-3700-3980-PC2-30-20-M-DFT-QPSK-Edge_1RB_Left



N77-3700-3980-PC2-30-20-H-DFT-QPSK-Outer_Ful



N77-3700-3980-PC2-30-20-H-DFT-QPSK-Edge_1RB_Left

26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

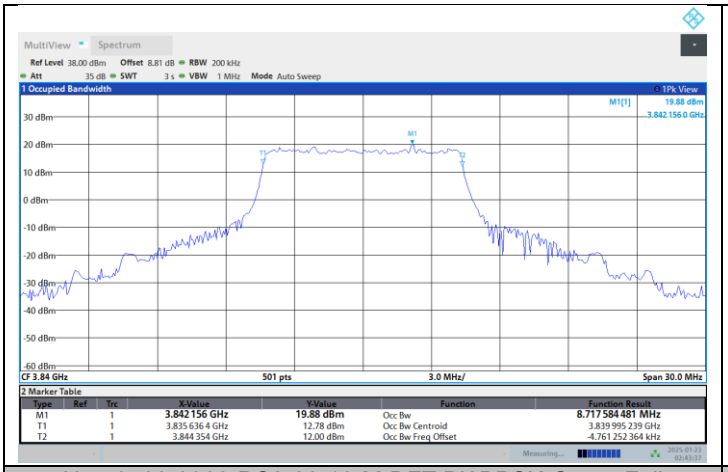
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N77-3700-3980	30	10	DFT-PI2BPSK	M	Outer_Full	8.718	10.13	PASS
N77-3700-3980	30	10	DFT-QPSK	M	Outer_Full	8.752	10.22	PASS
N77-3700-3980	30	10	DFT-16QAM	M	Outer_Full	8.707	10.19	PASS
N77-3700-3980	30	10	DFT-64QAM	M	Outer_Full	8.718	10.19	PASS
N77-3700-3980	30	10	DFT-256QAM	M	Outer_Full	8.686	9.83	PASS
N77-3700-3980	30	15	DFT-PI2BPSK	M	Outer_Full	13.068	14.56	PASS
N77-3700-3980	30	15	DFT-QPSK	M	Outer_Full	13.064	14.52	PASS
N77-3700-3980	30	15	DFT-16QAM	M	Outer_Full	13.097	14.52	PASS
N77-3700-3980	30	15	DFT-64QAM	M	Outer_Full	13.097	14.61	PASS
N77-3700-3980	30	15	DFT-256QAM	M	Outer_Full	13.048	14.56	PASS
N77-3700-3980	30	20	DFT-PI2BPSK	M	Outer_Full	18.156	20.26	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Outer_Full	18.179	20.20	PASS
N77-3700-3980	30	20	DFT-16QAM	M	Outer_Full	18.131	19.96	PASS
N77-3700-3980	30	20	DFT-64QAM	M	Outer_Full	18.196	20.62	PASS
N77-3700-3980	30	20	DFT-256QAM	M	Outer_Full	18.127	20.26	PASS
N77-3700-3980	30	30	DFT-PI2BPSK	M	Outer_Full	27.035	29.04	PASS
N77-3700-3980	30	30	DFT-QPSK	M	Outer_Full	26.984	29.13	PASS
N77-3700-3980	30	30	DFT-16QAM	M	Outer_Full	26.968	29.22	PASS
N77-3700-3980	30	30	DFT-64QAM	M	Outer_Full	27.053	29.31	PASS
N77-3700-3980	30	30	DFT-256QAM	M	Outer_Full	27.054	29.13	PASS
N77-3700-3980	30	40	DFT-PI2BPSK	M	Outer_Full	36.209	39.08	PASS
N77-3700-3980	30	40	DFT-QPSK	M	Outer_Full	36.175	39.08	PASS
N77-3700-3980	30	40	DFT-16QAM	M	Outer_Full	36.110	39.44	PASS
N77-3700-3980	30	40	DFT-64QAM	M	Outer_Full	36.151	38.84	PASS
N77-3700-3980	30	40	DFT-256QAM	M	Outer_Full	36.089	39.20	PASS
N77-3700-3980	30	50	DFT-PI2BPSK	M	Outer_Full	46.158	49.75	PASS
N77-3700-3980	30	50	DFT-QPSK	M	Outer_Full	46.043	48.85	PASS
N77-3700-3980	30	50	DFT-16QAM	M	Outer_Full	46.006	48.70	PASS
N77-3700-3980	30	50	DFT-64QAM	M	Outer_Full	46.157	49.45	PASS
N77-3700-3980	30	50	DFT-256QAM	M	Outer_Full	46.132	49.75	PASS
N77-3700-3980	30	60	DFT-PI2BPSK	M	Outer_Full	58.187	60.78	PASS
N77-3700-3980	30	60	DFT-QPSK	M	Outer_Full	58.158	61.68	PASS
N77-3700-3980	30	60	DFT-16QAM	M	Outer_Full	58.144	61.14	PASS
N77-3700-3980	30	60	DFT-64QAM	M	Outer_Full	58.258	61.68	PASS
N77-3700-3980	30	60	DFT-256QAM	M	Outer_Full	58.198	61.32	PASS
N77-3700-3980	30	70	DFT-PI2BPSK	M	Outer_Full	64.749	68.60	PASS
N77-3700-3980	30	70	DFT-QPSK	M	Outer_Full	64.716	67.76	PASS
N77-3700-3980	30	70	DFT-16QAM	M	Outer_Full	64.621	67.97	PASS
N77-3700-3980	30	70	DFT-64QAM	M	Outer_Full	64.779	67.76	PASS
N77-3700-3980	30	70	DFT-256QAM	M	Outer_Full	64.686	67.76	PASS
N77-3700-3980	30	80	DFT-PI2BPSK	M	Outer_Full	78.040	82.96	PASS
N77-3700-3980	30	80	DFT-QPSK	M	Outer_Full	77.846	82.72	PASS
N77-3700-3980	30	80	DFT-16QAM	M	Outer_Full	77.876	82.72	PASS
N77-3700-3980	30	80	DFT-64QAM	M	Outer_Full	77.910	82.72	PASS
N77-3700-3980	30	80	DFT-256QAM	M	Outer_Full	77.964	82.96	PASS
N77-3700-3980	30	90	DFT-PI2BPSK	M	Outer_Full	86.534	91.71	PASS
N77-3700-3980	30	90	DFT-QPSK	M	Outer_Full	86.398	91.98	PASS
N77-3700-3980	30	90	DFT-16QAM	M	Outer_Full	86.291	91.17	PASS
N77-3700-3980	30	90	DFT-64QAM	M	Outer_Full	87.298	91.17	PASS
N77-3700-3980	30	90	DFT-256QAM	M	Outer_Full	86.453	91.71	PASS

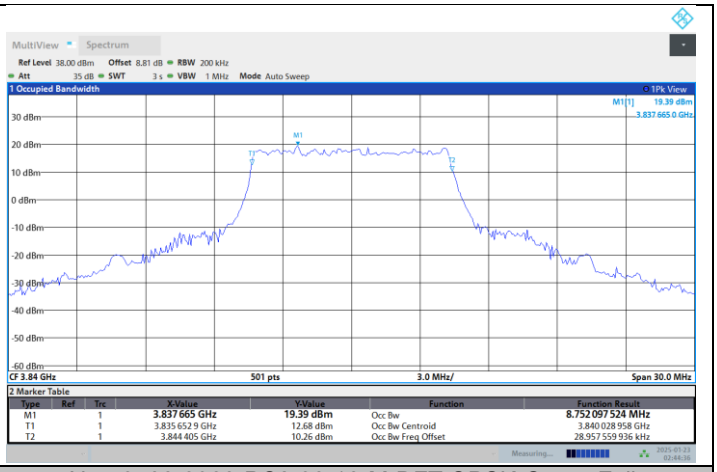
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	97.073	101.90	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	97.221	101.90	PASS
N77-3700-3980	30	100	DFT-16QAM	M	Outer_Full	96.979	102.50	PASS
N77-3700-3980	30	100	DFT-64QAM	M	Outer_Full	96.946	102.20	PASS
N77-3700-3980	30	100	DFT-256QAM	M	Outer_Full	96.923	103.40	PASS

Test Graphs

Occupied Bandwidth



N77-3700-3980-PC2-30-10-M-DFT-PI2BPSK-Outer_Full



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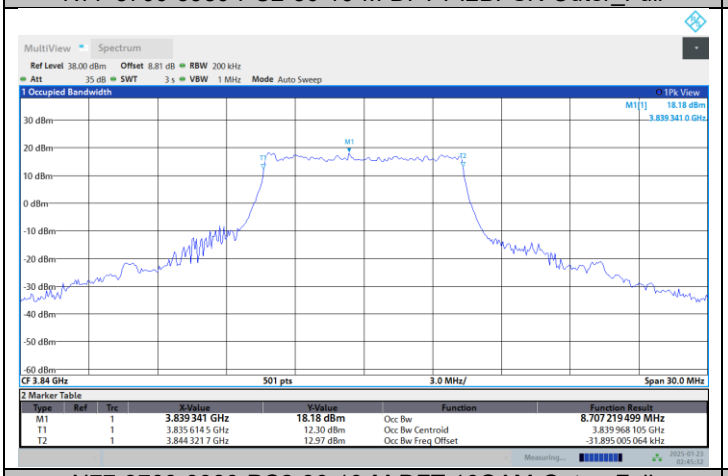

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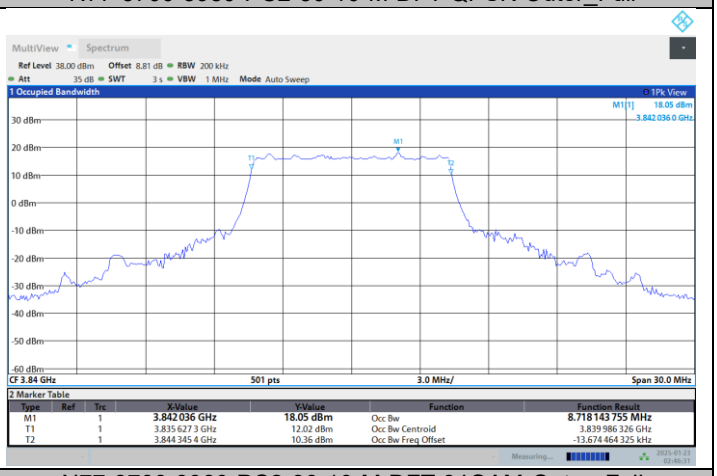

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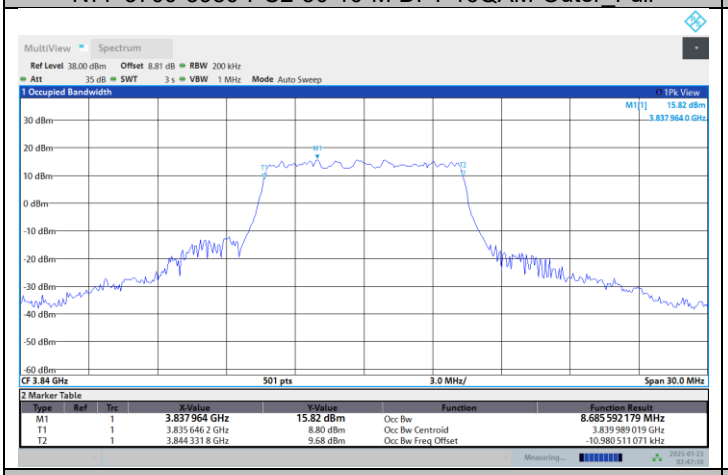

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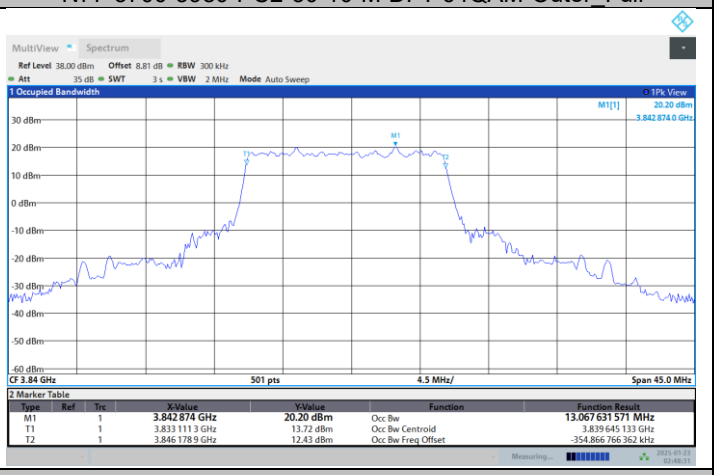

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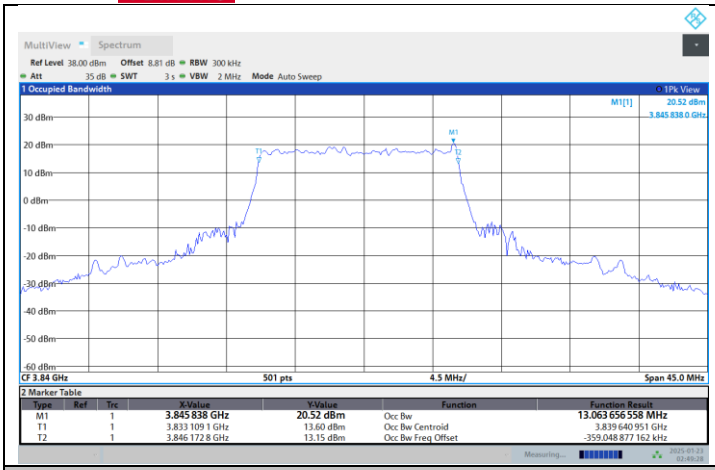

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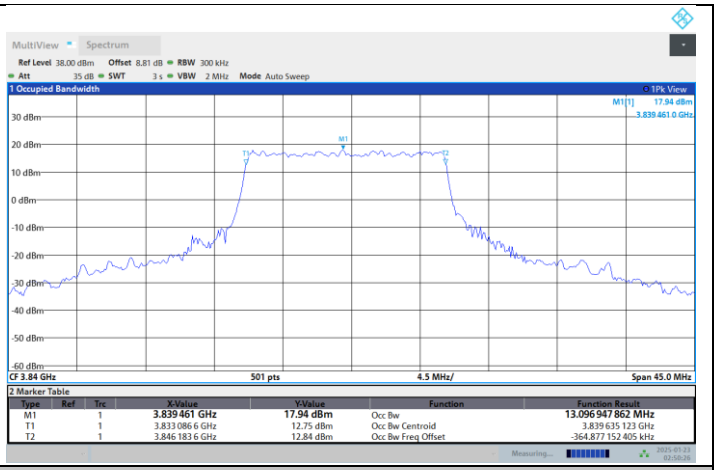

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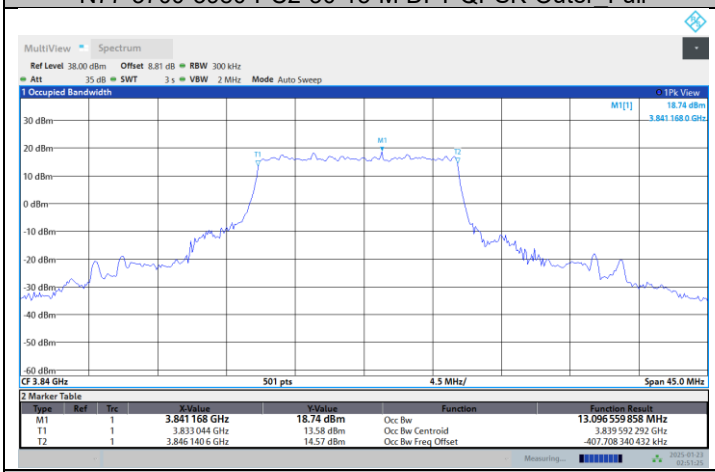

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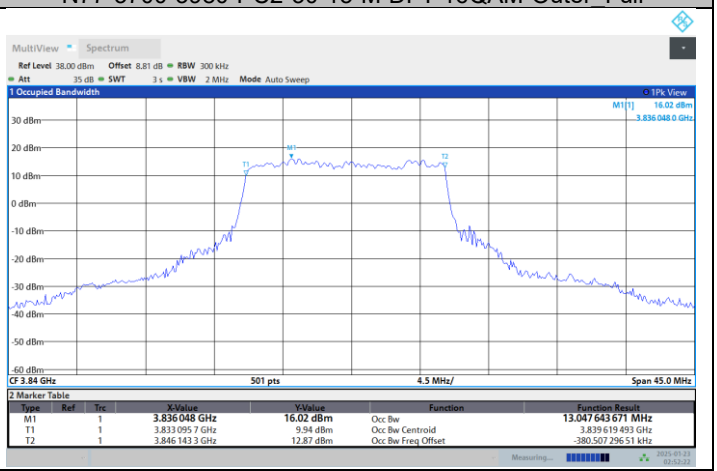

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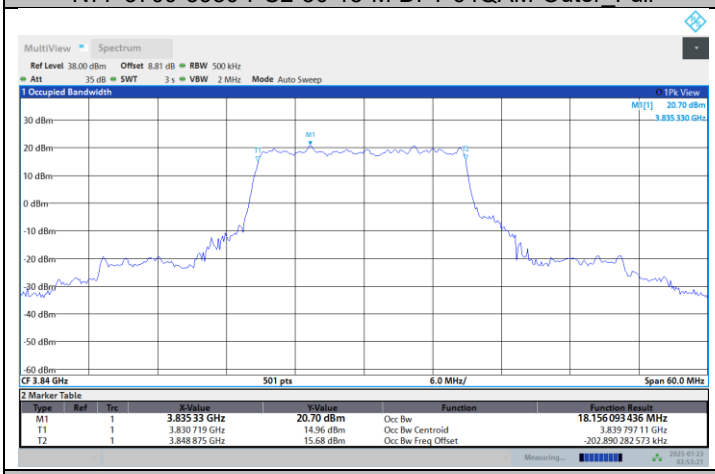

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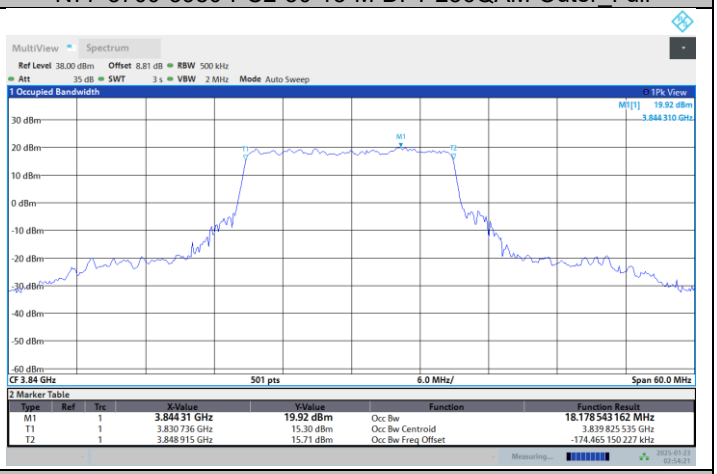

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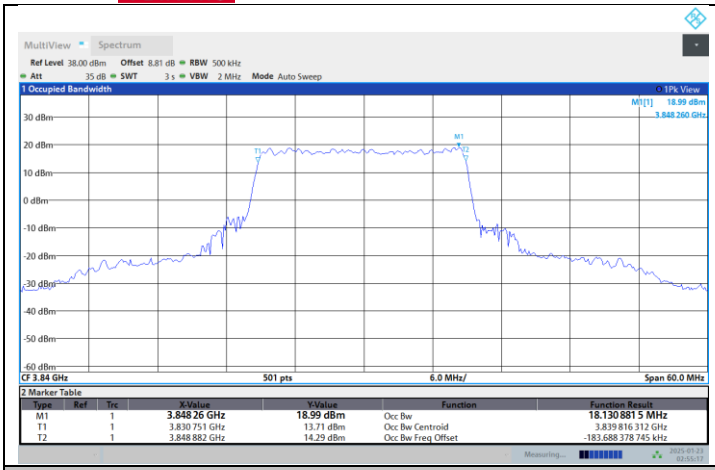

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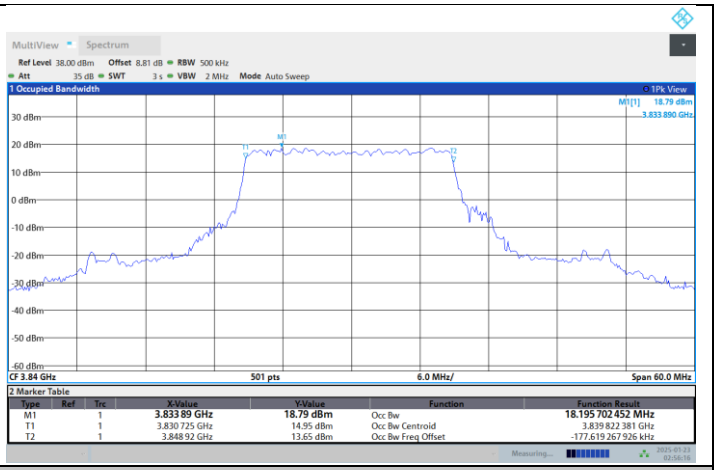

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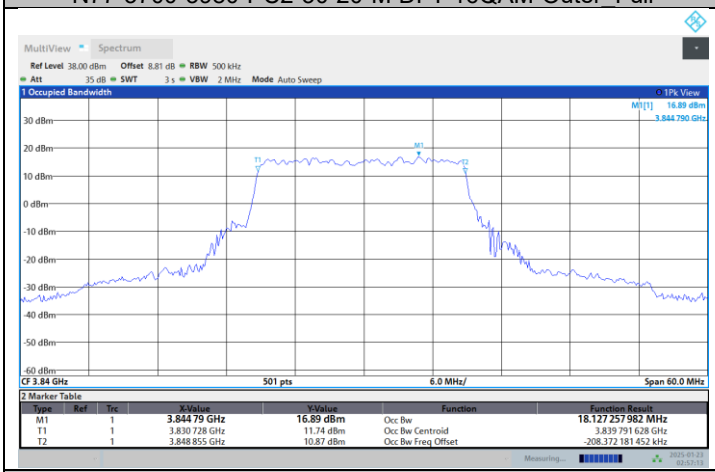

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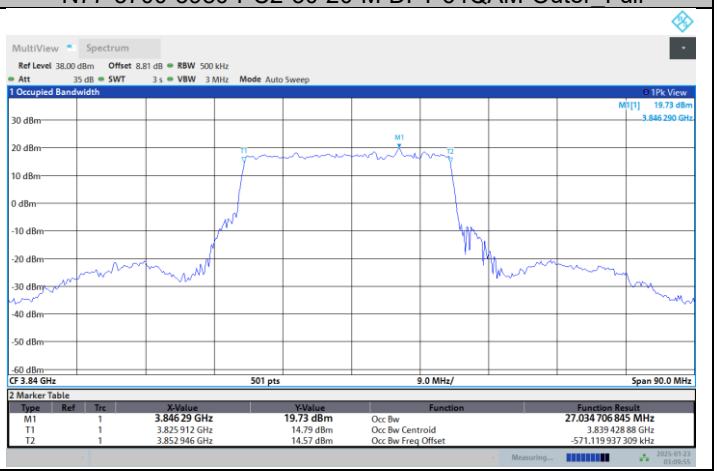

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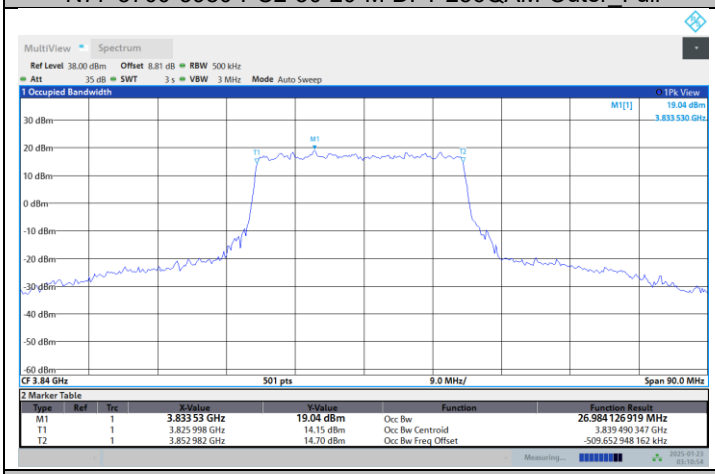

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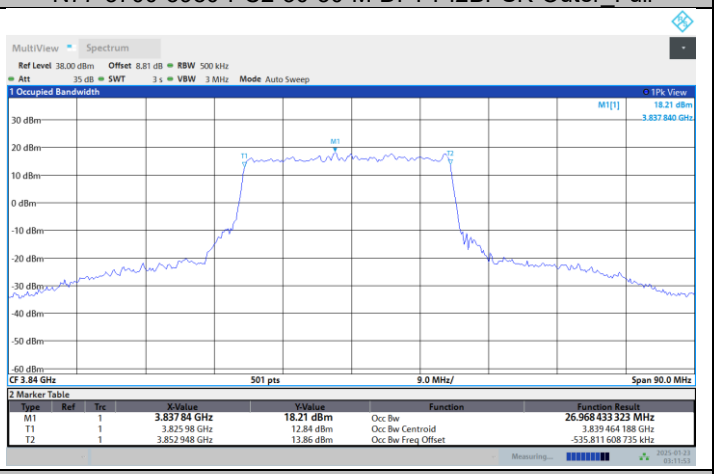

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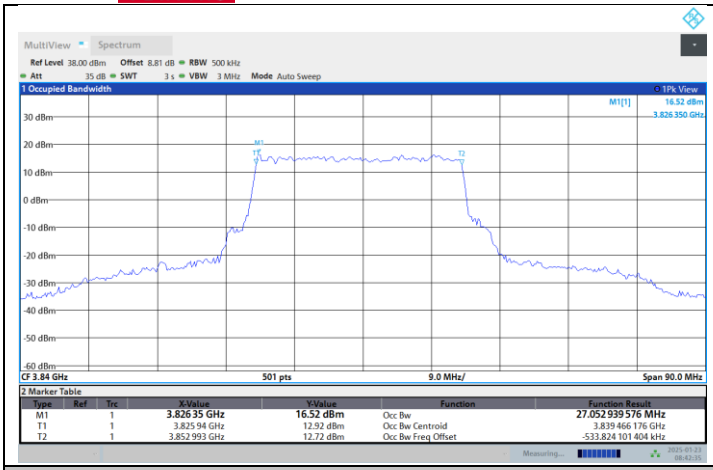

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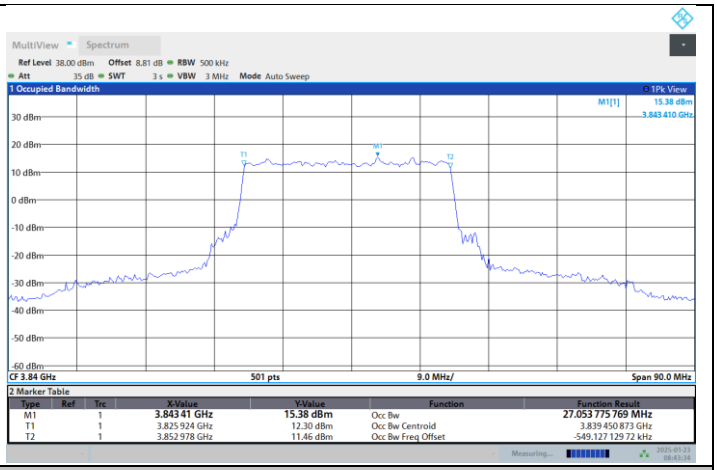

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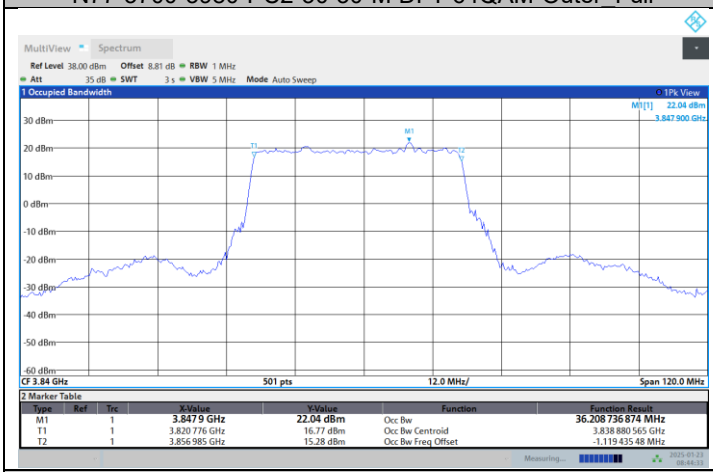

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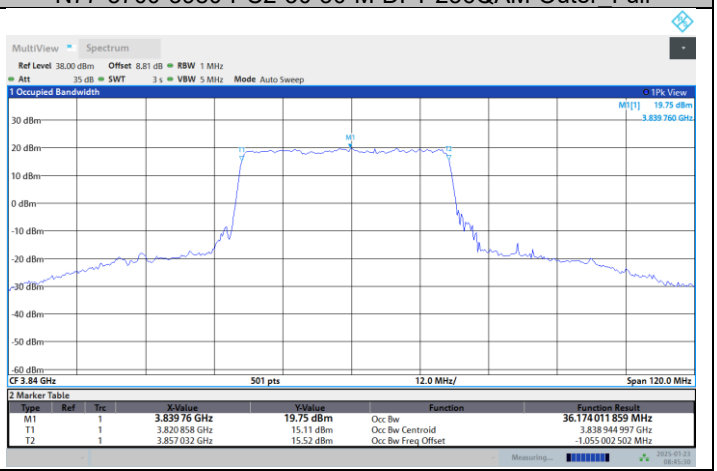

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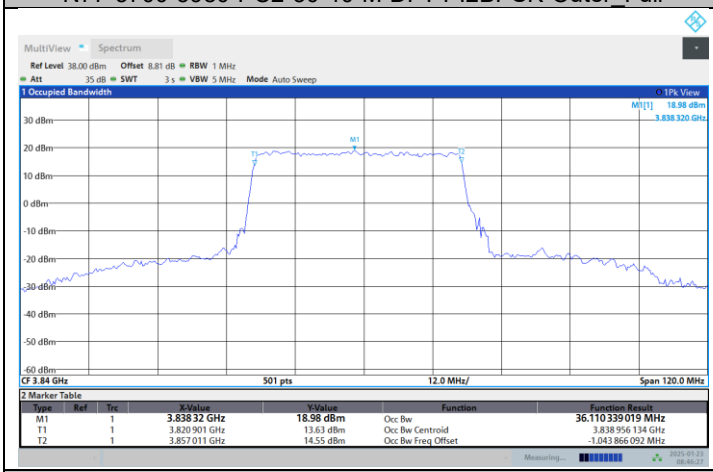

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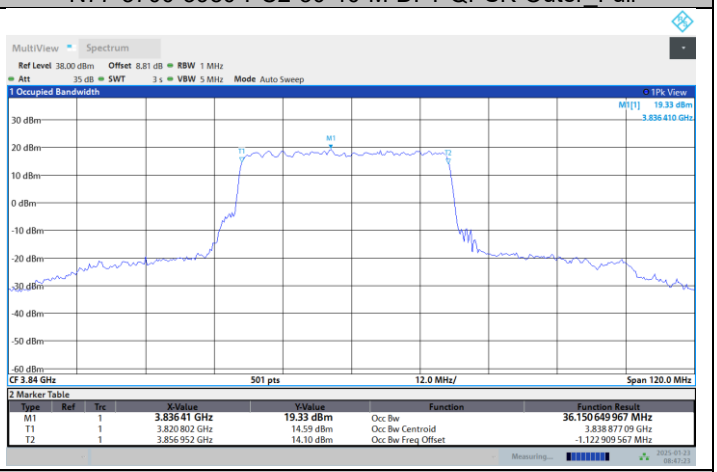

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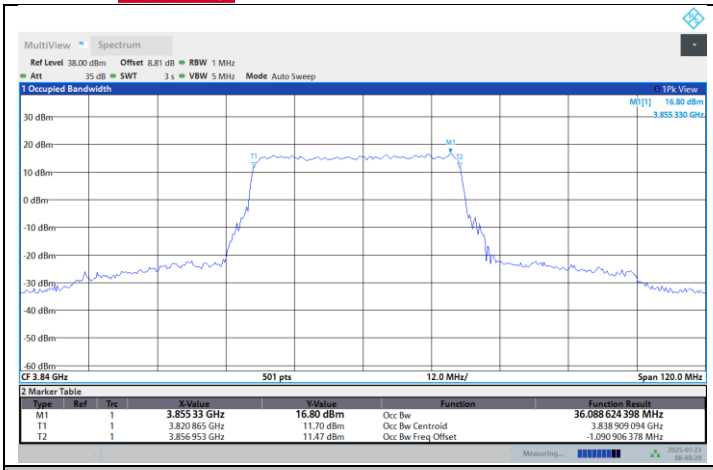

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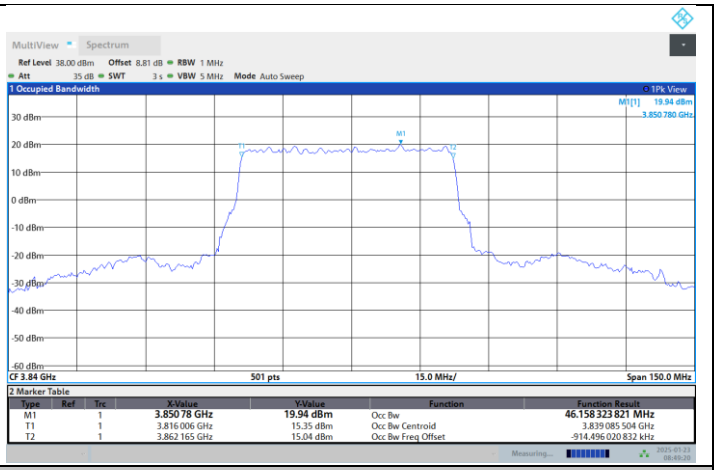
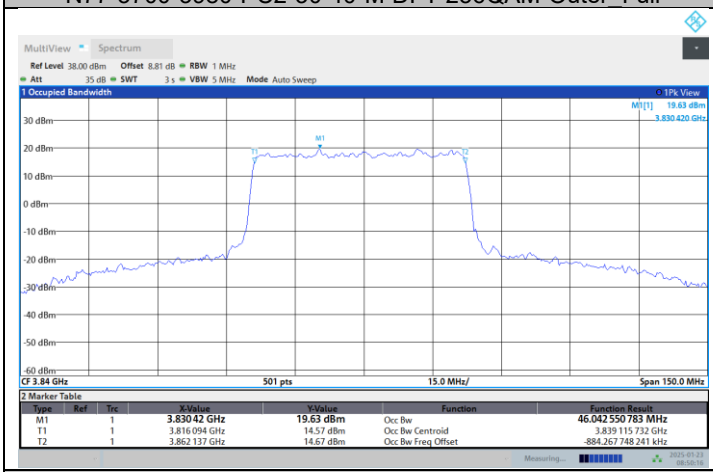


N77-3700-3980-PC2-30-50-M-DFT-PI2BPSK-Outer_Full



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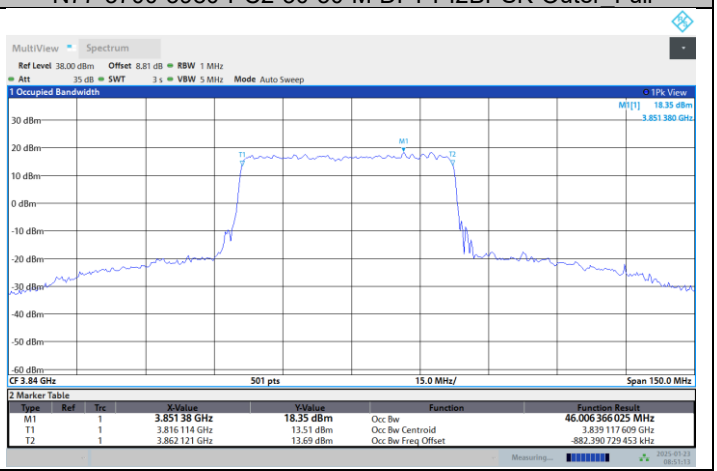

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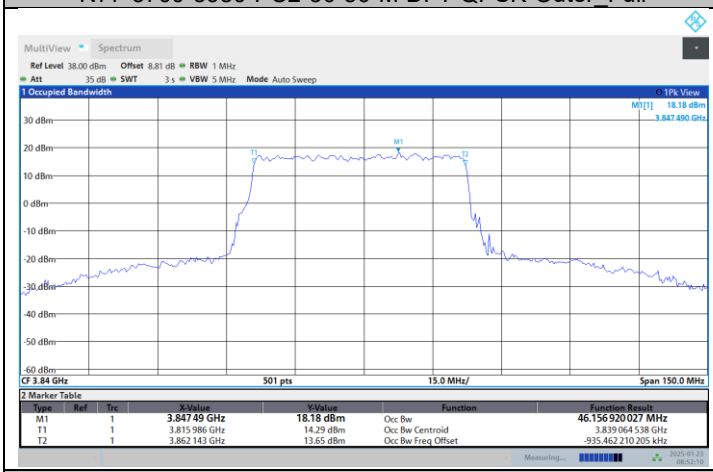

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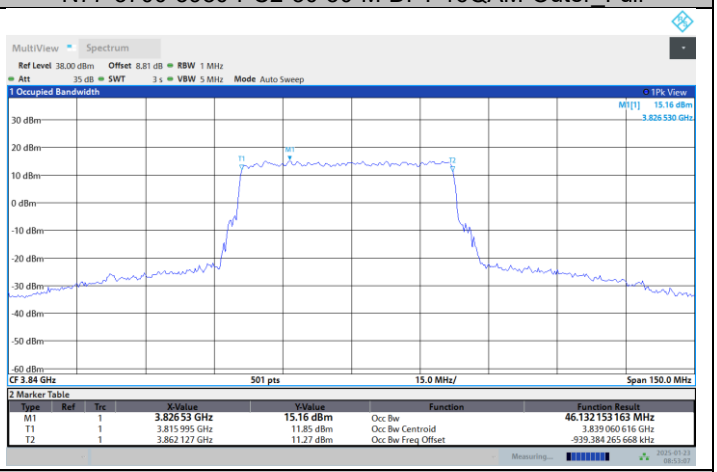

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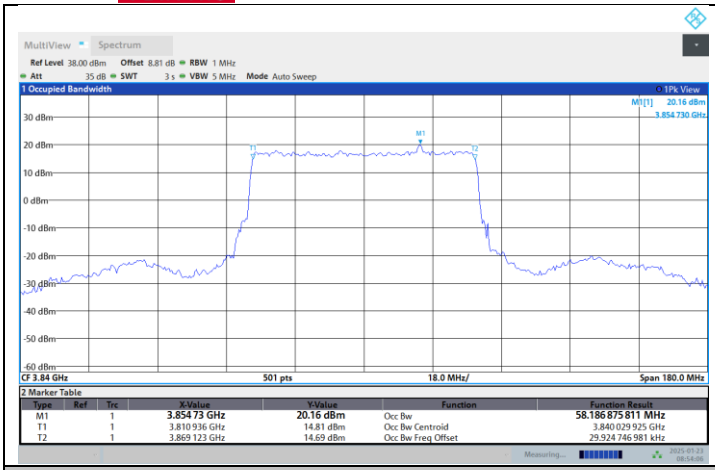

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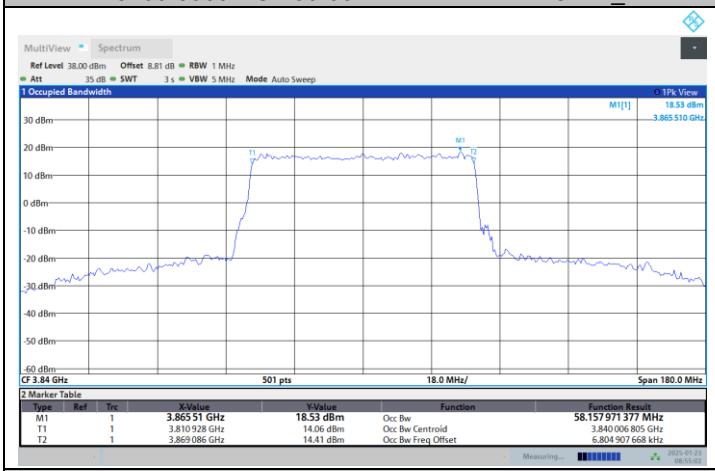

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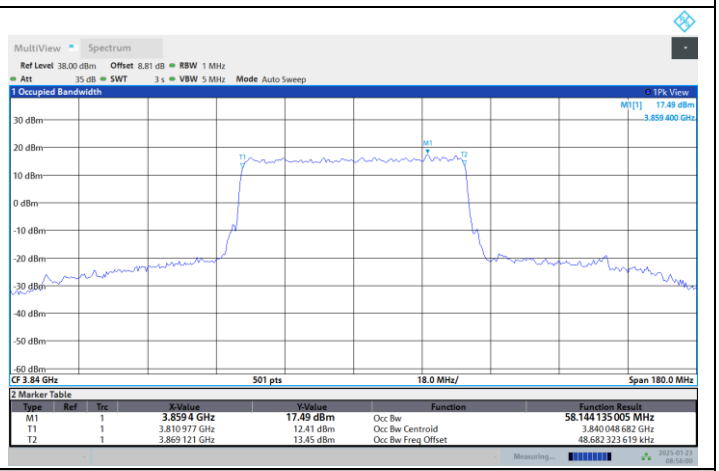

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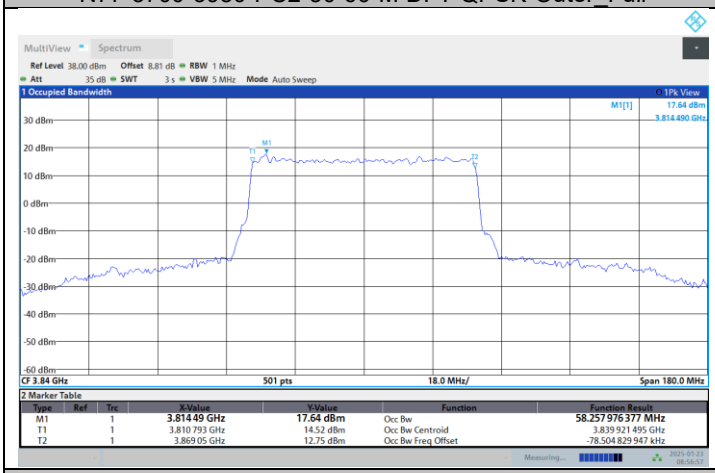

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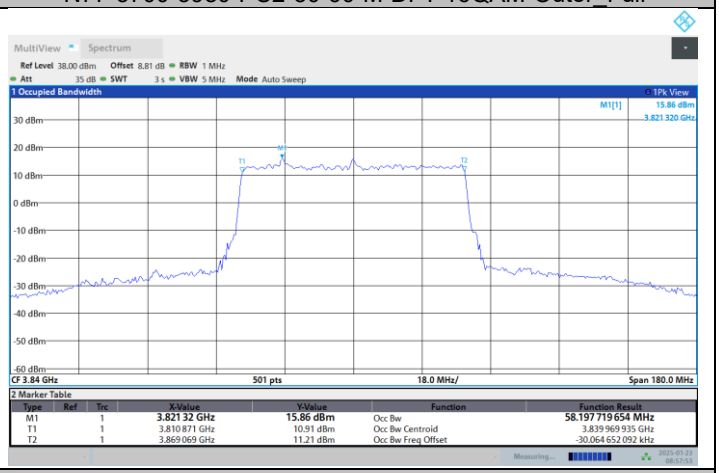

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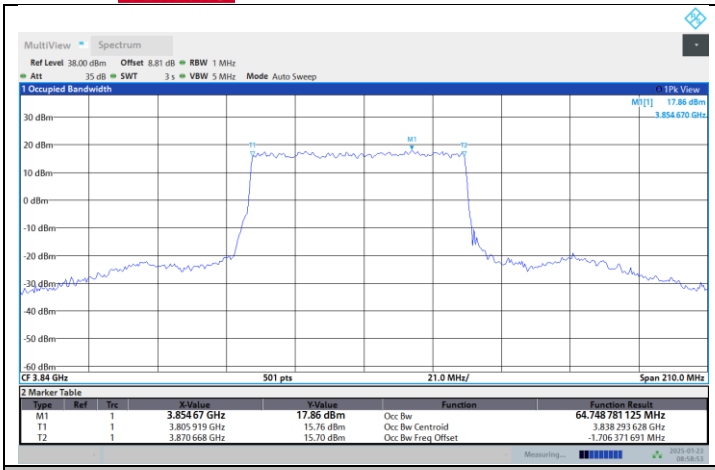

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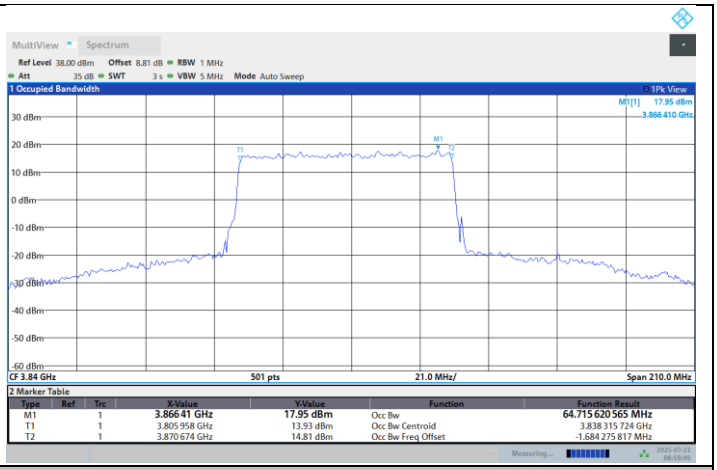

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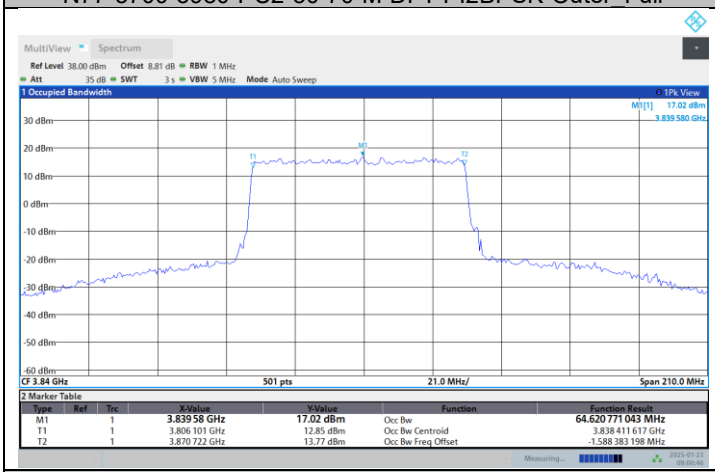

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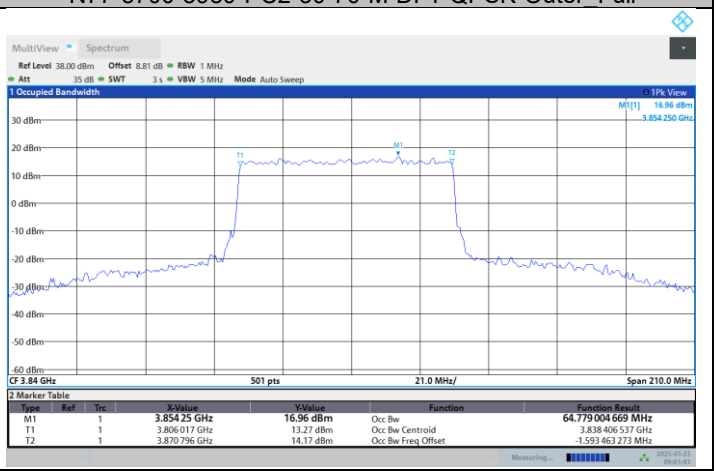

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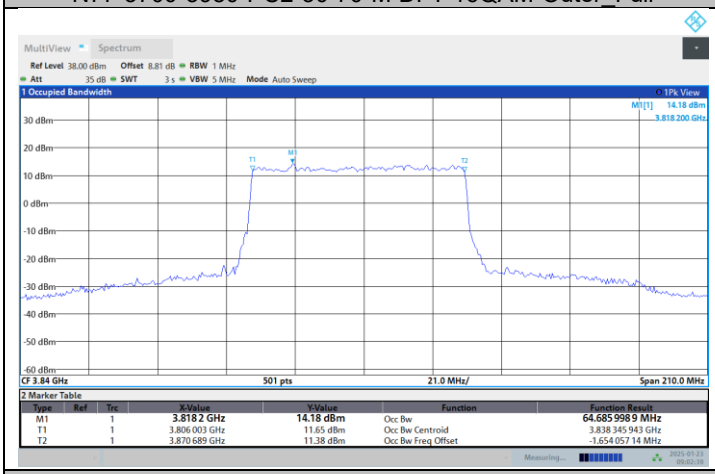

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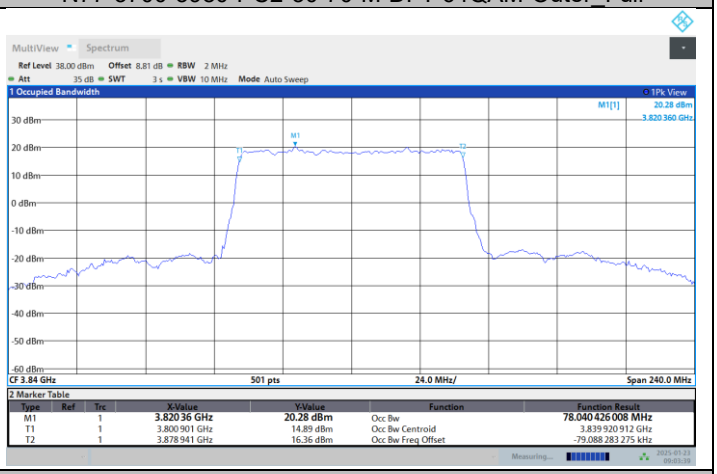

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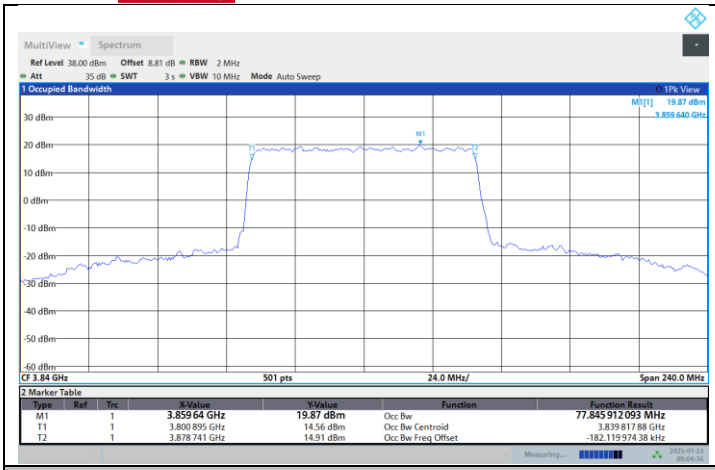

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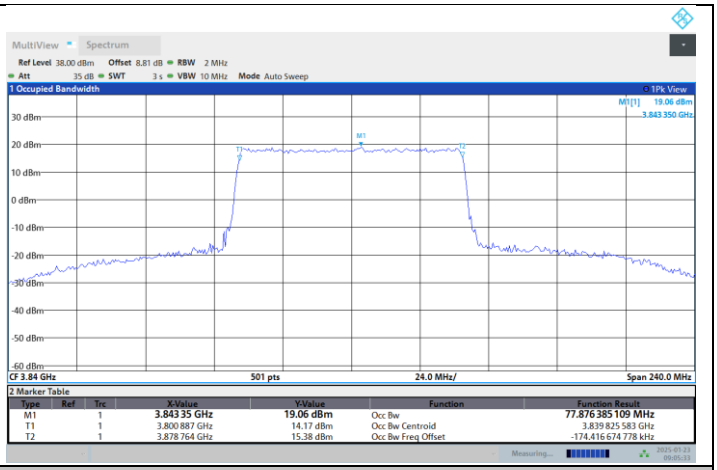

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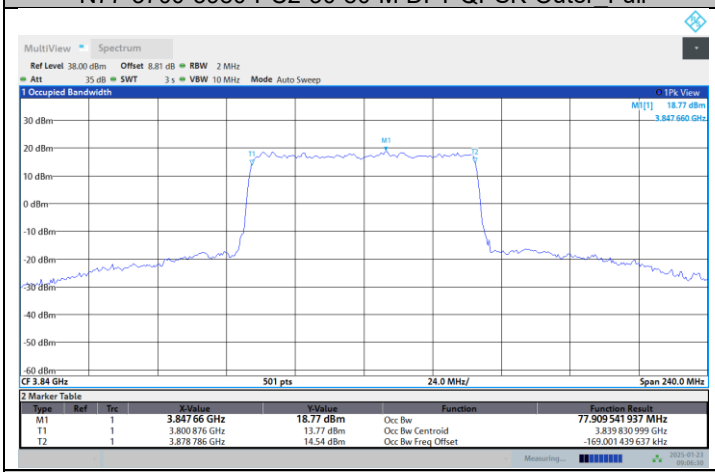

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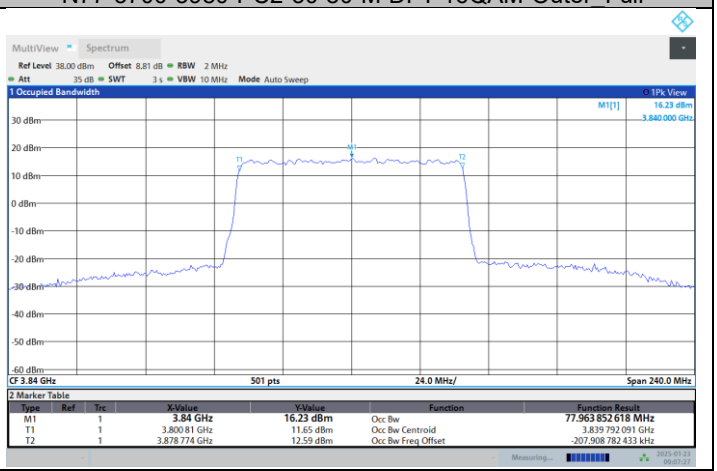

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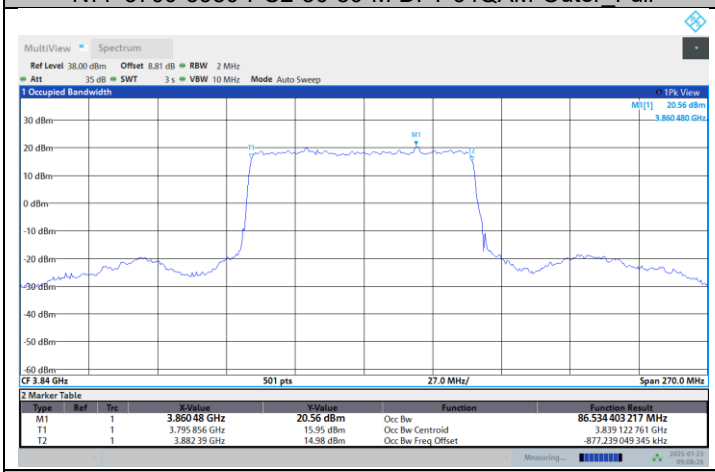

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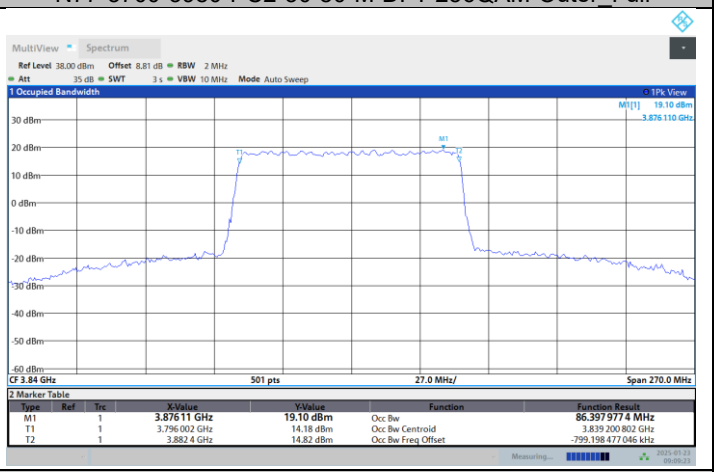

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