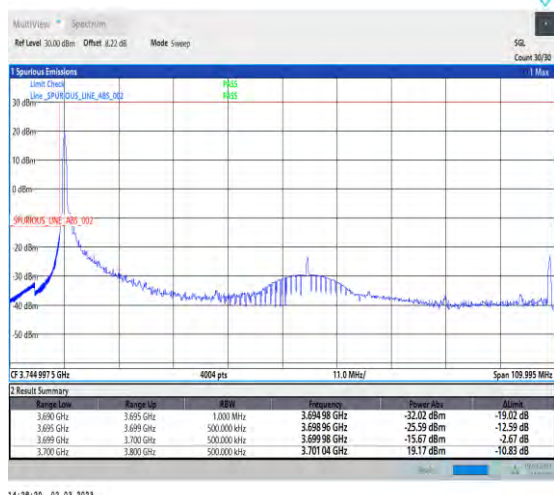


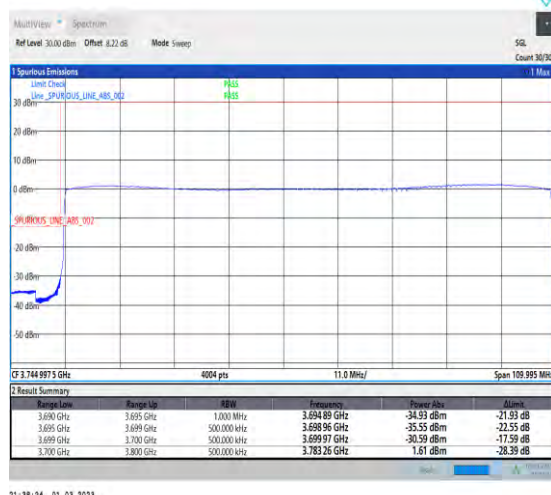
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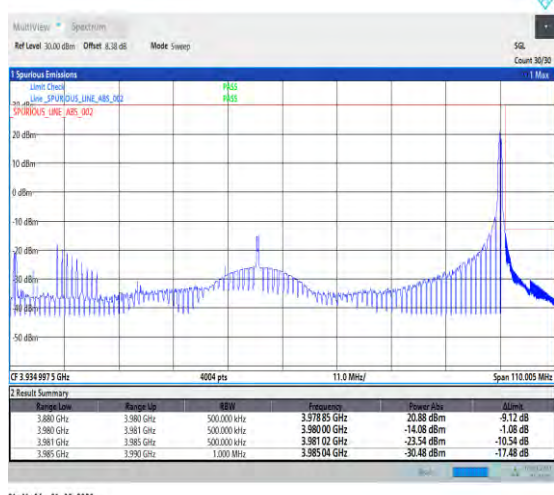
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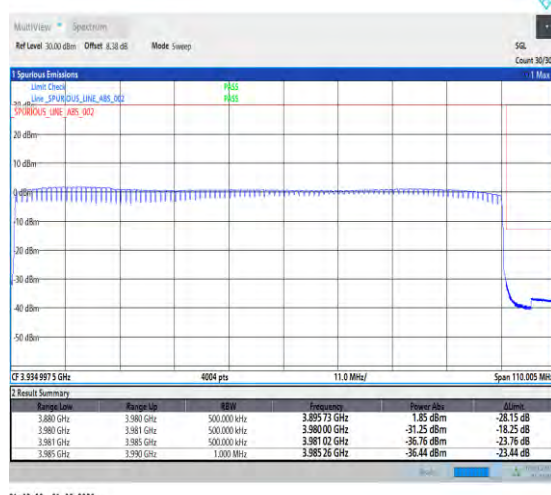
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1-N77-3700-3980-PC2-30-100-L-6-CP-QPSK-Out
er_Full-273@0-Ant1-1--PASS-see graph



21:41:04 01.02.2023



21:43:09 01.02.2023

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RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-100-H-6-CP-QPSK-Out
er_Full-273@0-Ant1-1--PASS-see graph



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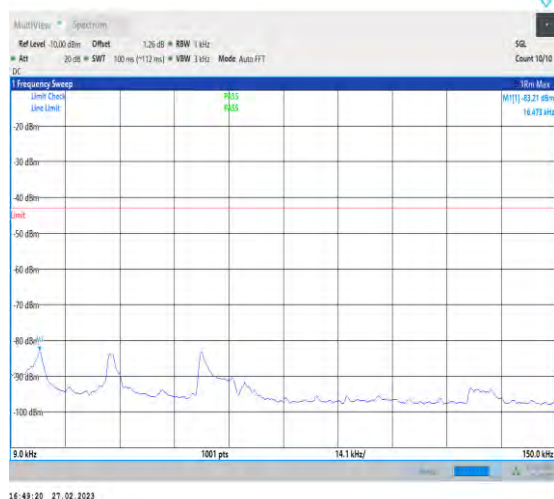
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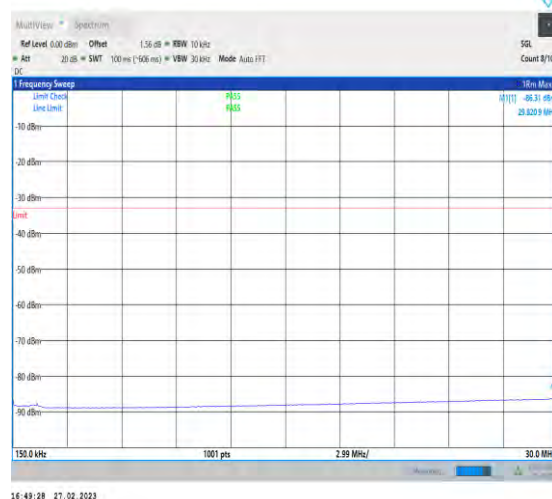
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Conducted Spurious Emission for SA

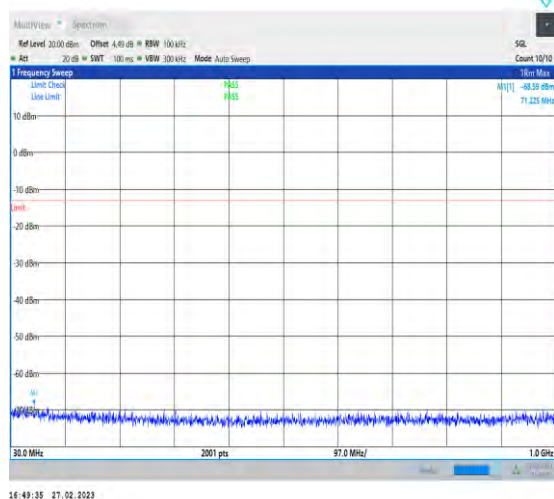
Test Graphs



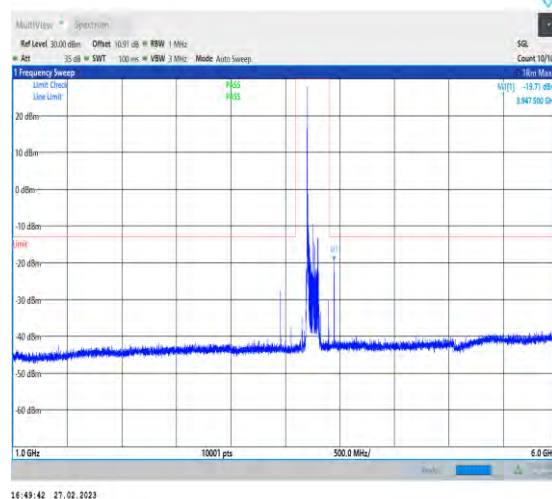
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-29.82--86.31--33-PASS



1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-71.23--68.59--13-PAS S



1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-3947.50--19.71--13-P ASS



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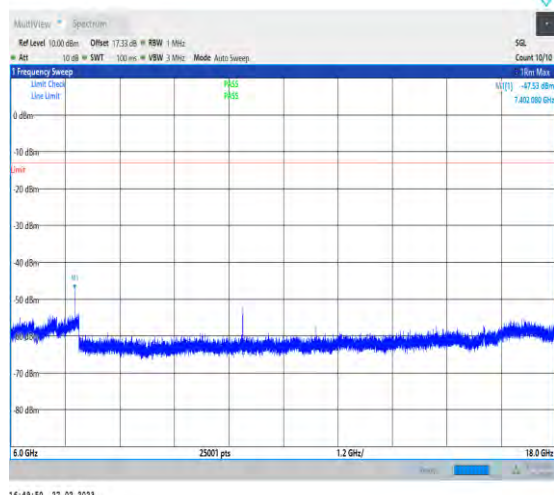
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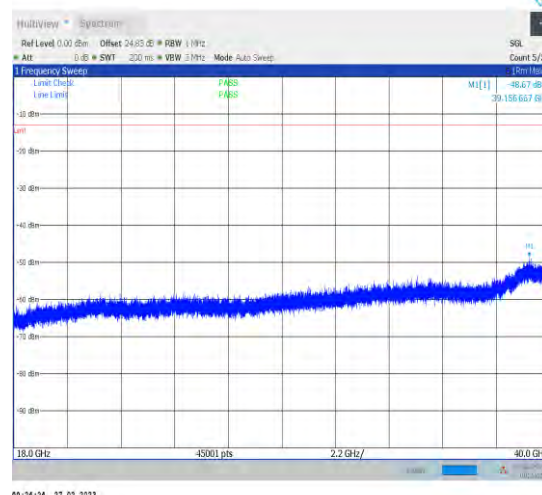
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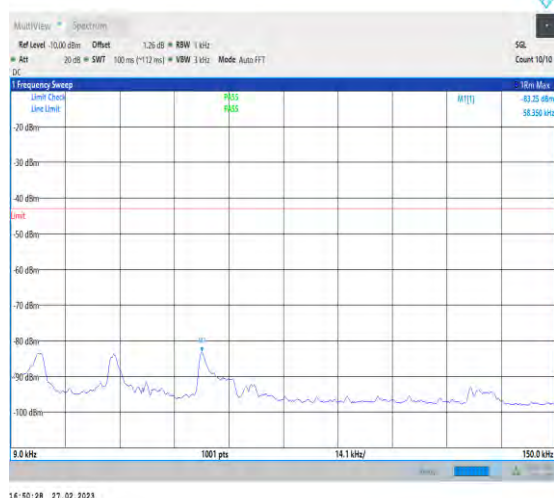
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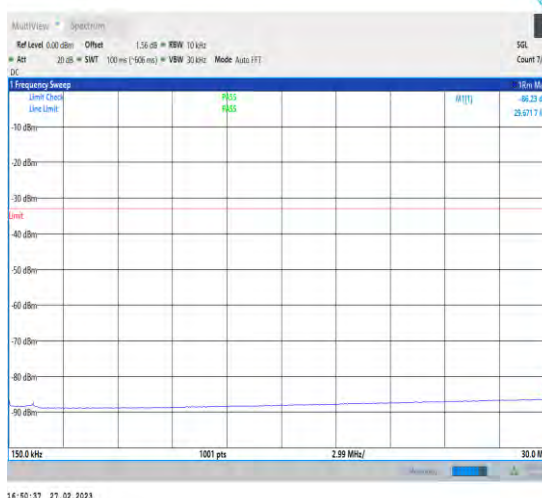
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--56.56--1 3-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.06--83.25--43-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-29.67--86.23--33-PASS



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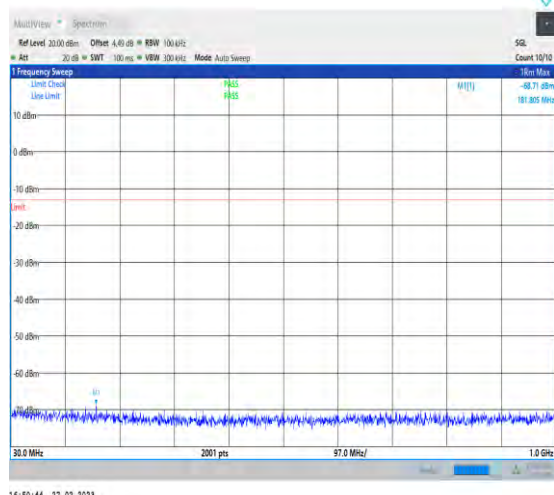
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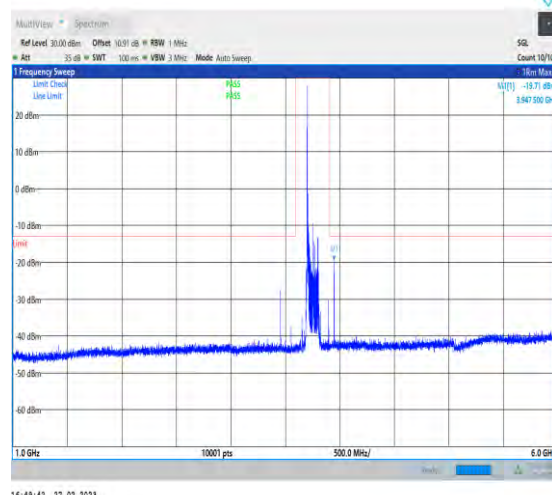
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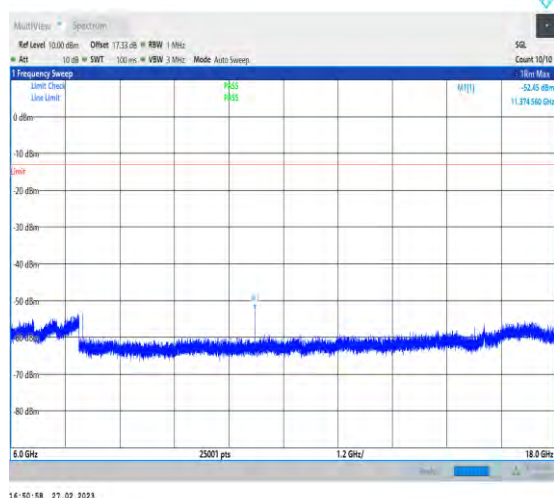
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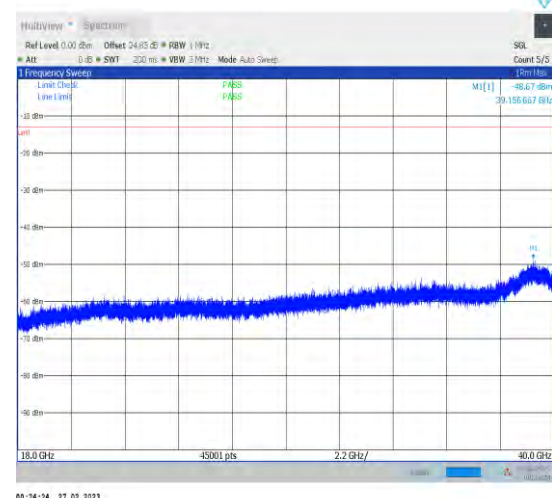
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SS



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1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1-11374.56--52.45--13-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--56.98--13-PASS



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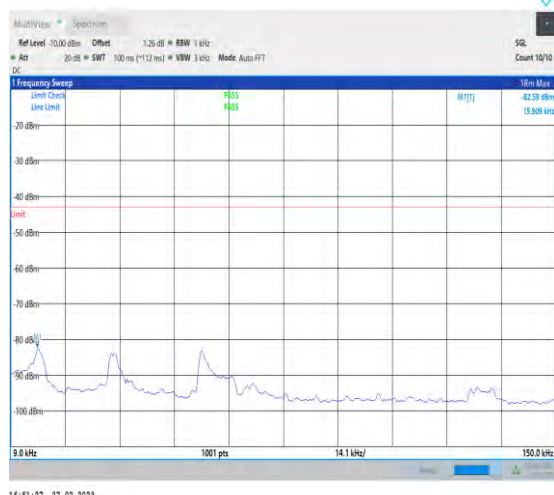
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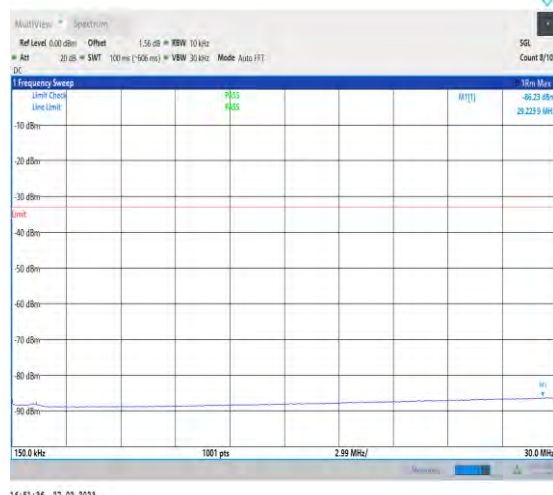
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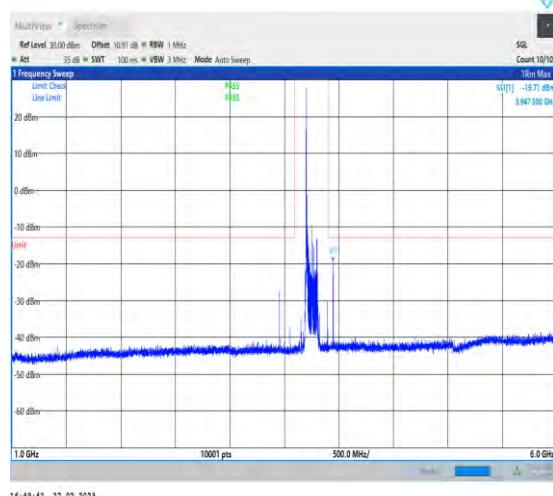
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SS



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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-75.59--67.27--13-PAS
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ASS



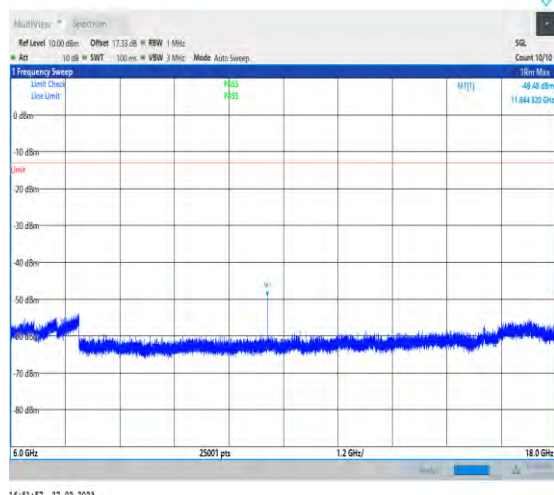
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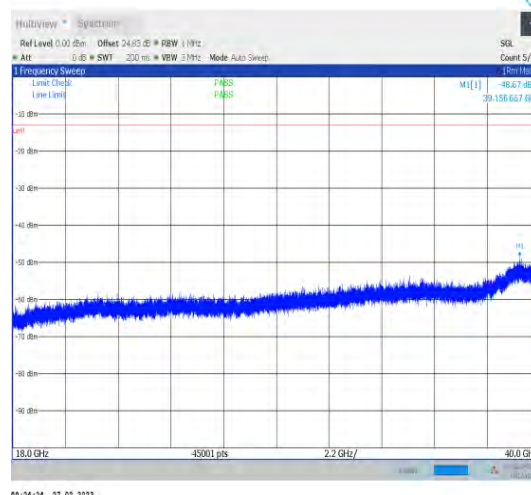
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16:51:57 27.02.2023

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09:24:24 27.02.2023

1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--57.47--13-PASS



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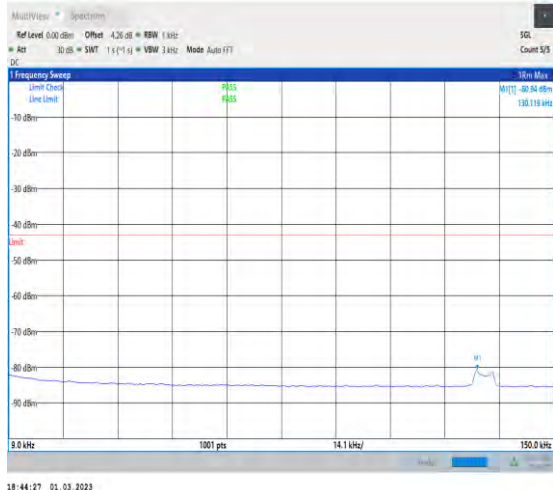
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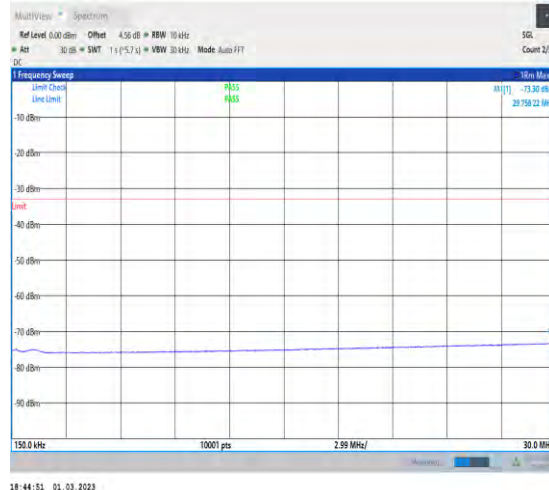
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Conducted Spurious Emission for MIMO

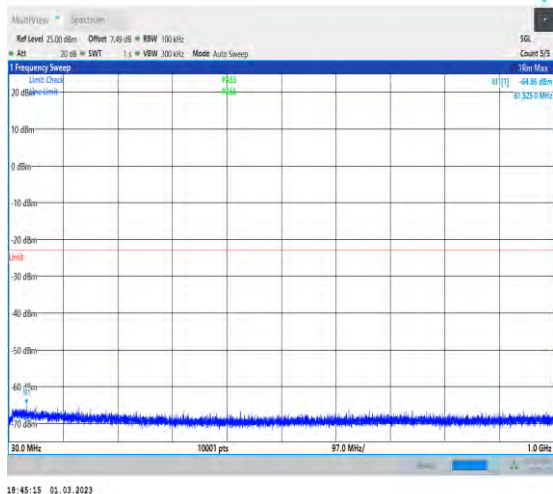
Test Graphs



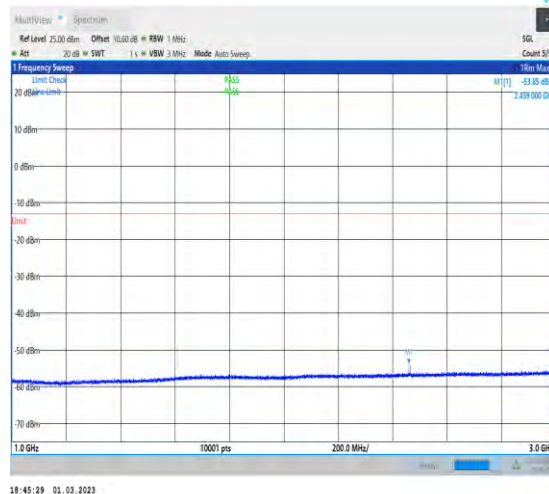
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SS



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3-PASS



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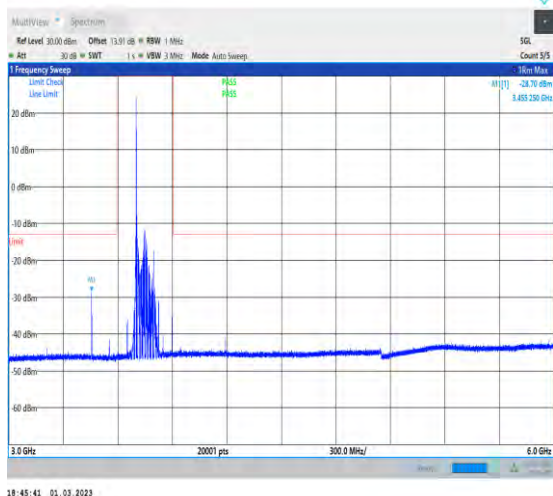
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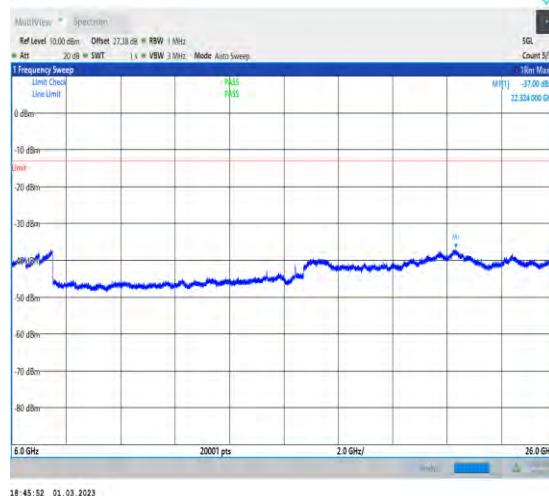
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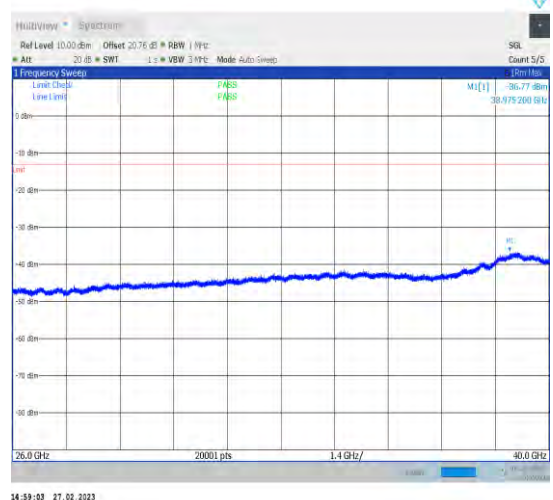
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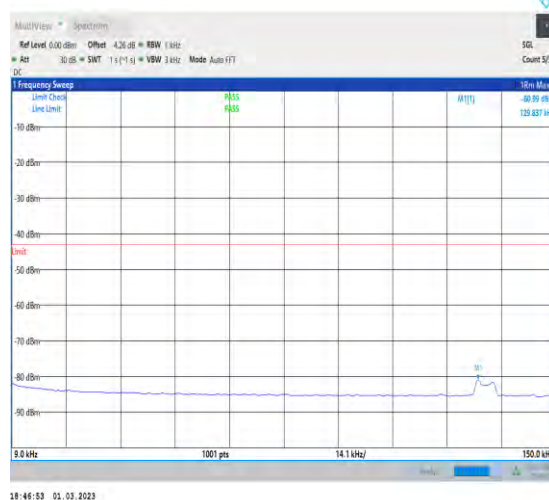
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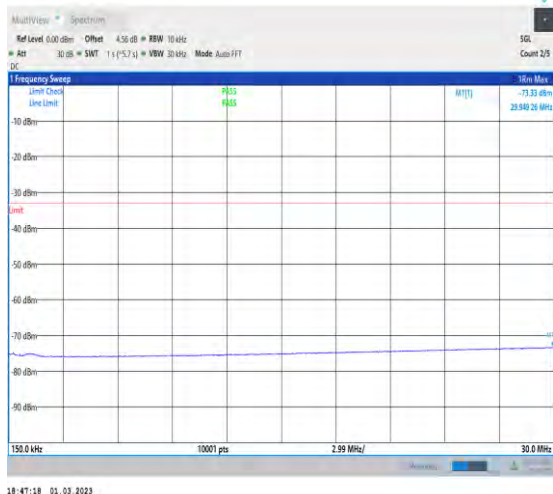
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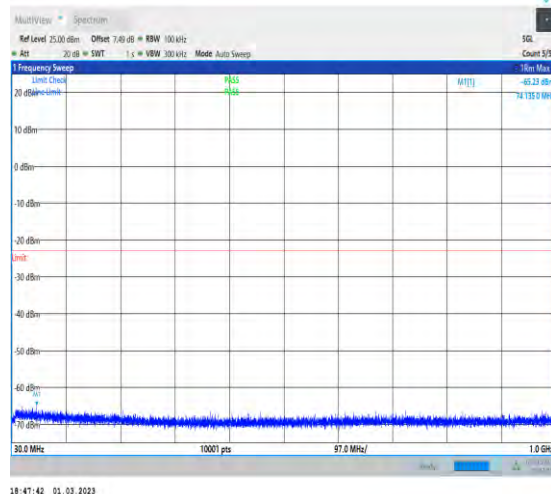
Report No.: SEWM2302000040RG02

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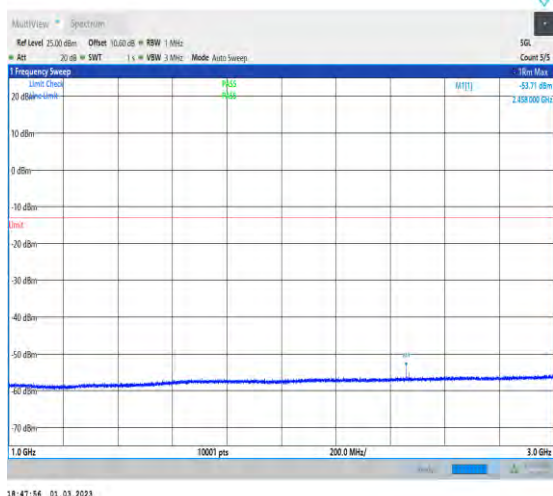
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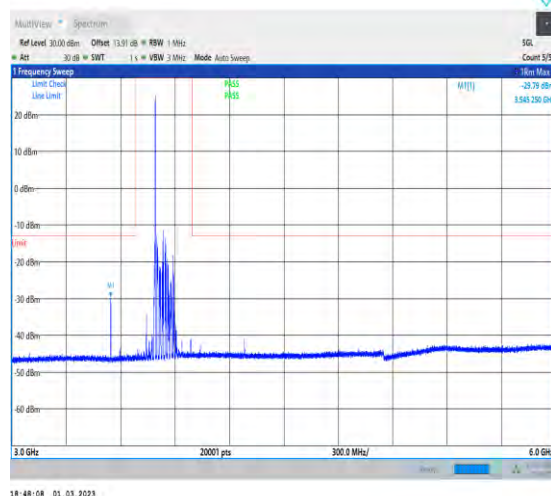
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1-N77-3700-3980-PC2-30-100-M-1-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant1-74.14--65.23--23-PA SS



1-N77-3700-3980-PC2-30-100-M-1-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant1-2458.00--53.71--13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-QPSK-Edge_1RB_Left-1@0-3000-6000-Ant1-3545.25--29.79--13-PASS



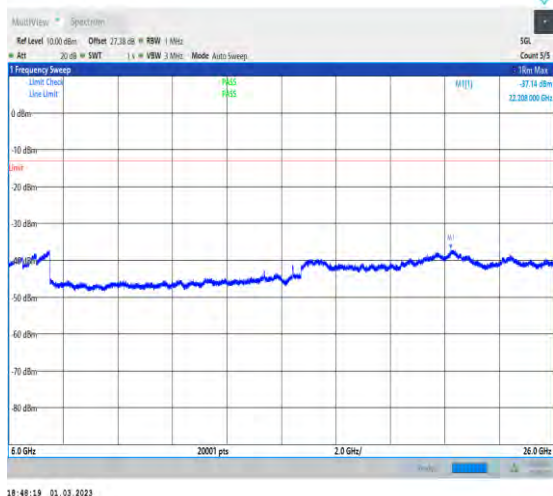
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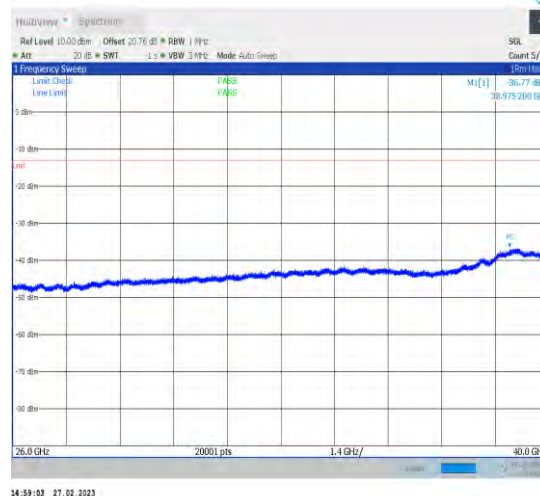
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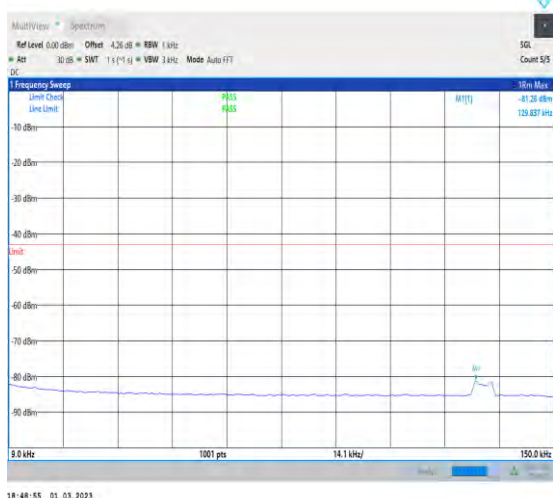
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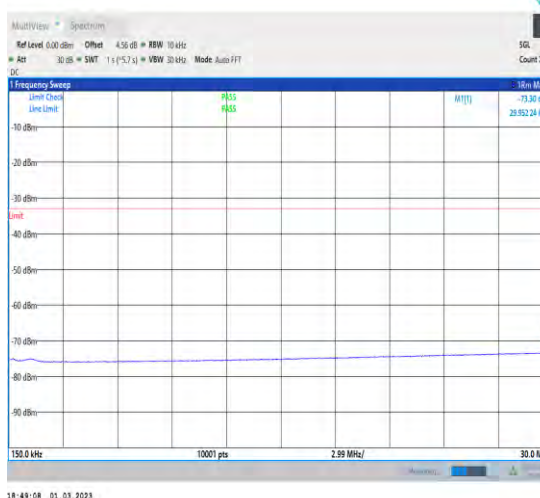
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--13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-QPSK-Edge_1RB_Left-1@0-26000-40000-Ant1-26000.00--42.5
6--13-PASS



1-N77-3700-3980-PC2-30-100-H-1-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.13--81.26--43-PA
SS



1-N77-3700-3980-PC2-30-100-H-1-DFT-QPSK-Edge_1RB_Left-1@0.15-30-Ant1-29.95--73.30--33-PAS
S



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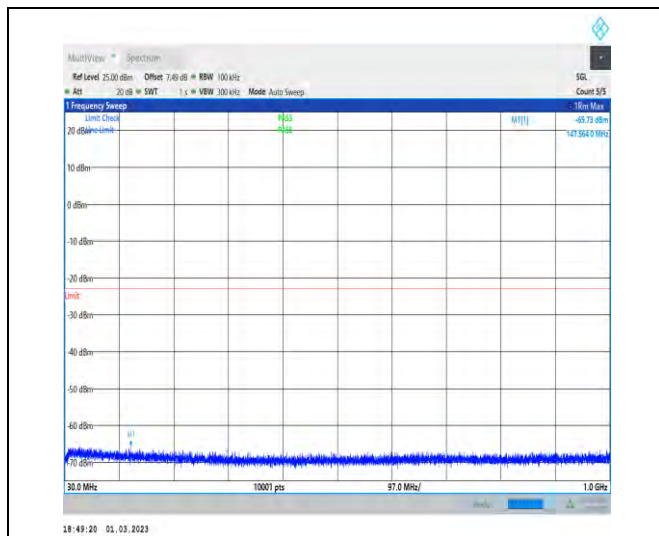
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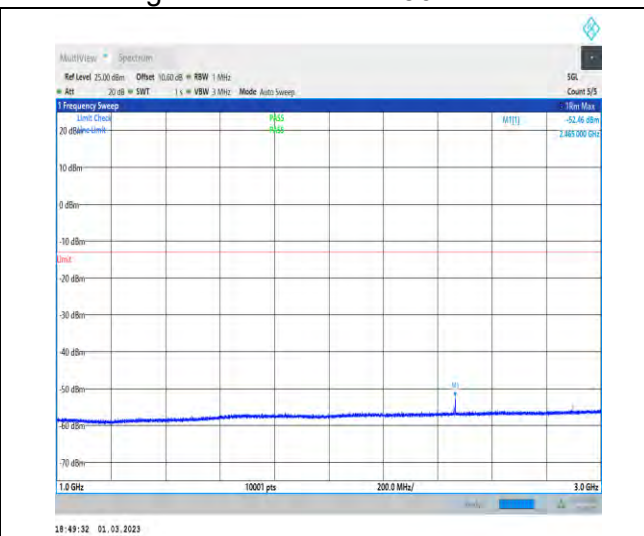
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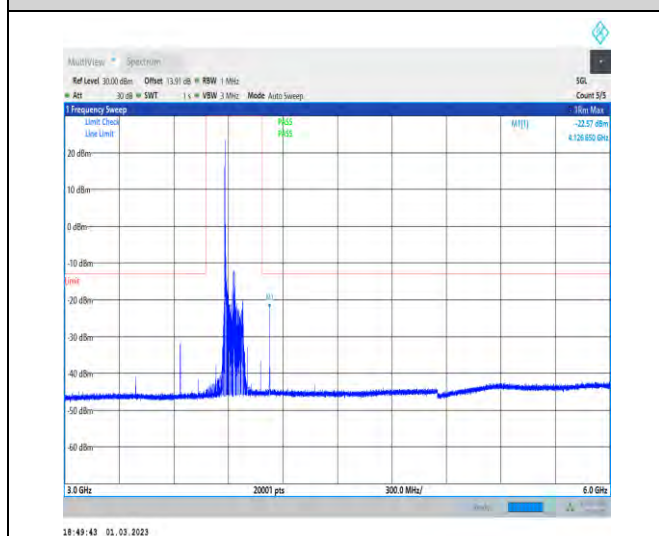
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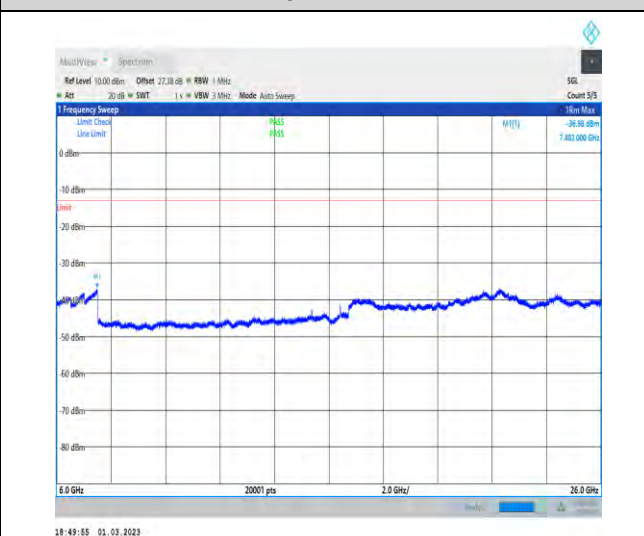
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1-N77-3700-3980-PC2-30-100-H-1-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant1-2465.00--52.46--1 3-PASS



1-N77-3700-3980-PC2-30-100-H-1-DFT-QPSK-Edge_1RB_Left-1@0-3000-6000-Ant1-4126.65--22.57--1 3-PASS



1-N77-3700-3980-PC2-30-100-H-1-DFT-QPSK-Edge_1RB_Left-1@0-6000-26000-Ant1-7482.00--36.98--13-PASS



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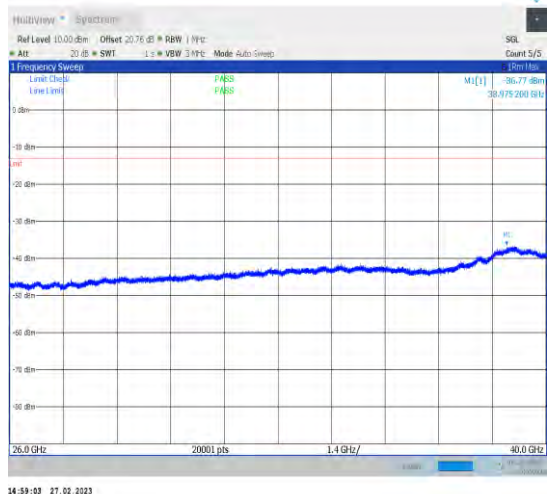
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1-N77-3700-3980-PC2-30-100-H-1-DFT-QPSK-Edge
_1RB_Left-1@0-26000-40000-Ant1-26000.00--42.74
--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band77_ TM1

Test Channel = Low 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	39.80	-43.27	36.54	-62.19	-13.00	49.19	211	181	Horizontal
2	8380.25	40.94	-41.47	37.31	-58.48	-13.00	45.48	156	346	Horizontal
3	9421.575	39.29	-39.93	38.48	-57.41	-13.00	44.41	236	59	Horizontal
4	10965.2700	34.08	-37.67	39.10	-59.75	-13.00	46.75	259	75	Horizontal
5	12771.525	35.51	-36.68	39.58	-56.85	-13.00	43.85	191	356	Horizontal
6	14620.3600	33.40	-35.23	39.91	-57.18	-13.00	44.18	148	287	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	40.17	-43.27	36.54	-61.82	-13.00	48.82	241	226	Vertical
2	8655.675	40.02	-41.14	37.84	-58.54	-13.00	45.54	174	43	Vertical
3	9846.5	37.53	-39.13	38.28	-58.57	-13.00	45.57	185	3	Vertical
4	10965.2700	33.84	-37.67	39.10	-59.99	-13.00	46.99	156	240	Vertical
5	13714.525	35.53	-36.03	40.04	-55.72	-13.00	42.72	259	300	Vertical
6	14620.3600	33.07	-35.23	39.91	-57.51	-13.00	44.51	192	1	Vertical



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Test Band = SA Band77_ TM1

Test Channel = Mid 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	40.07	-42.78	36.39	-61.58	-13.00	48.58	211	224	Horizontal
2	8415.9	40.94	-41.44	37.36	-58.39	-13.00	45.39	154	74	Horizontal
3	9422.725	38.44	-39.93	38.48	-58.26	-13.00	45.26	174	268	Horizontal
4	11835.2700	33.13	-37.25	38.79	-60.59	-13.00	47.59	156	89	Horizontal
5	13697.275	34.70	-35.99	40.06	-56.49	-13.00	43.49	192	15	Horizontal
6	15180.3600	31.52	-33.90	38.98	-58.66	-13.00	45.66	183	0	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	39.52	-42.78	36.39	-62.13	-13.00	49.13	211	77	Vertical
2	8759.175	40.18	-41.22	38.01	-58.29	-13.00	45.29	154	272	Vertical
3	9606.15	37.43	-39.22	38.43	-58.61	-13.00	45.61	186	1	Vertical
4	11835.2700	32.80	-37.25	38.79	-60.92	-13.00	47.92	259	138	Vertical
5	14319.425	34.93	-35.71	40.14	-55.90	-13.00	42.90	191	333	Vertical
6	15180.3600	31.95	-33.90	38.98	-58.23	-13.00	45.23	175	46	Vertical



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Test Band = SA Band77_ TM1
Test Channel = High 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	39.14	-42.69	36.86	-61.95	-13.00	48.95	255	16	Horizontal
2	8404.975	40.99	-41.39	37.34	-58.32	-13.00	45.32	148	73	Horizontal
3	9424.45	38.41	-39.93	38.48	-58.30	-13.00	45.30	175	118	Horizontal
4	10701.525	35.63	-37.50	39.14	-57.99	-13.00	44.99	146	7	Horizontal
5	11805.2700	33.41	-37.21	38.76	-60.30	-13.00	47.30	236	211	Horizontal
6	15740.3600	31.63	-33.18	38.27	-58.54	-13.00	45.54	255	104	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	39.55	-42.69	36.86	-61.54	-13.00	48.54	214	2	Vertical
2	9427.9	38.88	-39.93	38.48	-57.83	-13.00	44.83	174	74	Vertical
3	9875.825	37.67	-39.17	38.32	-58.43	-13.00	45.43	156	195	Vertical
4	11805.2700	33.70	-37.21	38.76	-60.01	-13.00	47.01	299	119	Vertical
5	13716.25	35.00	-36.03	40.04	-56.25	-13.00	43.25	281	212	Vertical
6	15740.3600	31.19	-33.18	38.27	-58.98	-13.00	45.98	145	357	Vertical



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Test Band = n77 ULMIMO_ TM1
Test Channel = Low 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7482.1800	39.06	-43.10	36.45	-62.86	-13.00	49.86	247	0	Horizontal
2	8902.925	39.33	-40.91	38.14	-58.70	-13.00	45.70	140	270	Horizontal
3	9257.125	38.71	-40.02	38.38	-58.19	-13.00	45.19	213	0	Horizontal
4	11223.2700	33.85	-36.75	39.11	-59.05	-13.00	46.05	236	1	Horizontal
5	12210.9	35.15	-37.06	39.13	-58.04	-13.00	45.04	291	331	Horizontal
6	14964.3600	30.81	-34.67	39.30	-59.82	-13.00	46.82	141	270	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7482.1800	39.05	-43.10	36.45	-62.87	-13.00	49.87	255	31	Vertical
2	8423.375	40.49	-41.47	37.38	-58.86	-13.00	45.86	142	121	Vertical
3	9291.625	38.29	-40.06	38.41	-58.62	-13.00	45.62	136	0	Vertical
4	11223.2700	33.85	-36.75	39.11	-59.05	-13.00	46.05	256	8	Vertical
5	12401.225	34.78	-36.99	39.07	-58.40	-13.00	45.40	291	107	Vertical
6	14964.3600	30.84	-34.67	39.30	-59.79	-13.00	46.79	144	121	Vertical



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Test Band = n77 ULMIMO_ TM1
Test Channel = Mid 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	38.94	-42.78	36.39	-62.71	-13.00	49.71	244	121	Horizontal
2	8403.25	40.98	-41.38	37.34	-58.33	-13.00	45.33	145	62	Horizontal
3	9603.85	36.99	-39.21	38.44	-59.05	-13.00	46.05	165	357	Horizontal
4	11835.2700	31.65	-37.25	38.79	-62.07	-13.00	49.07	125	76	Horizontal
5	13617.925	33.65	-36.03	40.13	-57.51	-13.00	44.51	136	1	Horizontal
6	15180.3600	30.39	-33.90	38.98	-59.79	-13.00	46.79	291	347	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	38.83	-42.78	36.39	-62.82	-13.00	49.82	174	0	Vertical
2	8407.85	40.30	-41.40	37.35	-59.02	-13.00	46.02	156	2	Vertical
3	9318.65	37.95	-40.04	38.43	-58.92	-13.00	45.92	199	357	Vertical
4	10712.45	35.29	-37.61	39.15	-58.43	-13.00	45.43	184	287	Vertical
5	11835.2700	31.82	-37.25	38.79	-61.90	-13.00	48.90	176	1	Vertical
6	15180.3600	30.37	-33.90	38.98	-59.81	-13.00	46.81	254	301	Vertical



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Test Band = n77 ULMIMO_ TM1
Test Channel = High 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7770.1800	39.36	-42.69	36.72	-61.87	-13.00	48.87	112	30	Horizontal
2	8402.1	40.04	-41.38	37.33	-59.26	-13.00	46.26	156	301	Horizontal
3	9273.225	38.33	-40.04	38.39	-58.57	-13.00	45.57	196	245	Horizontal
4	10039.7	36.82	-39.11	38.55	-59.00	-13.00	46.00	145	344	Horizontal
5	11655.2700	31.34	-36.49	38.85	-61.56	-13.00	48.56	135	90	Horizontal
6	15540.3600	30.83	-34.81	38.52	-60.72	-13.00	47.72	188	121	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7770.1800	38.73	-42.69	36.72	-62.50	-13.00	49.50	211	151	Vertical
2	8663.725	39.57	-41.18	37.86	-59.01	-13.00	46.01	142	46	Vertical
3	9265.175	38.26	-40.03	38.39	-58.64	-13.00	45.64	136	0	Vertical
4	11655.2700	31.30	-36.49	38.85	-61.60	-13.00	48.60	259	105	Vertical
5	12802	33.50	-36.63	39.63	-58.75	-13.00	45.75	111	136	Vertical
6	15540.3600	31.01	-34.81	38.52	-60.54	-13.00	47.54	203	77	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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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
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	6.800000	0.001771	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	1.600000	0.000417	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.200000	-0.000052	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	9.000000	0.002344	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-1.300000	-0.000339	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	2.400000	0.000625	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	3.600000	0.000938	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	7.000000	0.001823	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	9.700000	0.002526	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	1.200000	0.000313	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	5.900000	0.001536	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.200000	0.001875	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	6.900000	0.001797	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	3.500000	0.000911	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.900000	-0.000495	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-0.600000	-0.000156	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.600000	0.001719	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	13.500000	0.003516	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	1.400000	0.000365	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-1.100000	-0.000286	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	1.000000	0.000260	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	4.700000	0.001224	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-3.800000	-0.000990	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-0.300000	-0.000078	PASS

---End of Attachment---



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