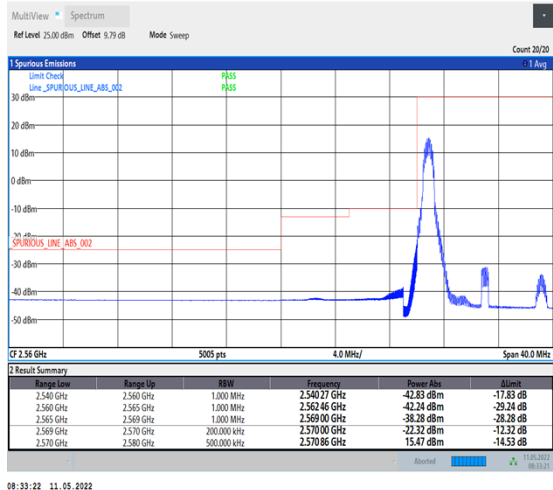


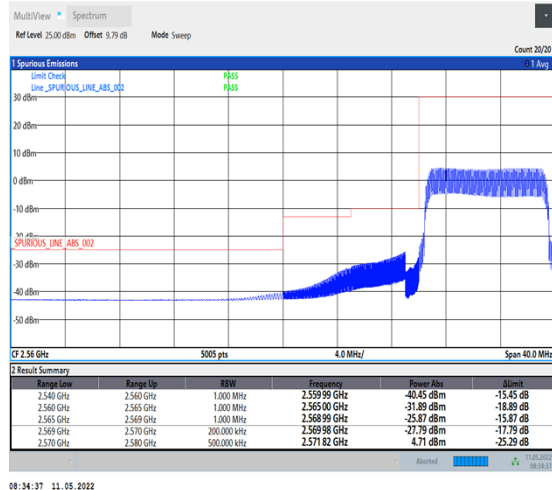
Report No.: SEWA2204000008RG02
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Band Edge for MIMO

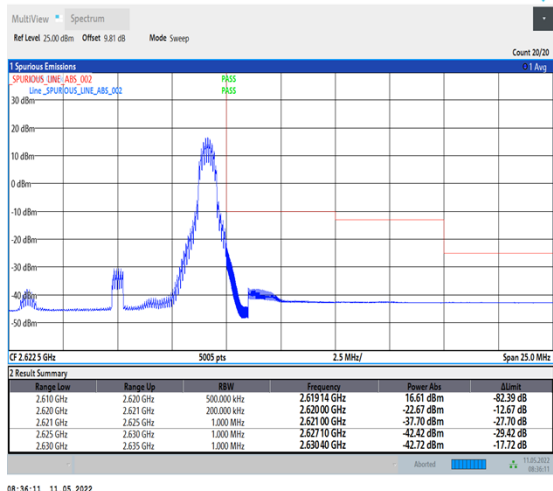
Test Graphs



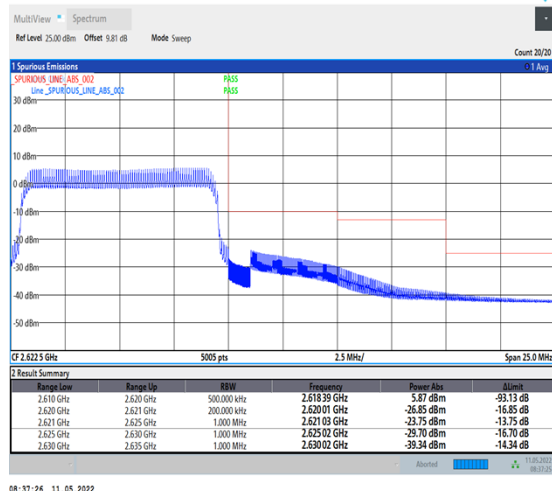
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1-N38-PC2-30-10-L-6-CP-QPSK-Outer_Full-24@0-Ant1-PASS-see graph



1-N38-PC2-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant1-PASS-see graph



1-N38-PC2-30-10-H-6-CP-QPSK-Outer_Full-24@0-Ant1-PASS-see graph



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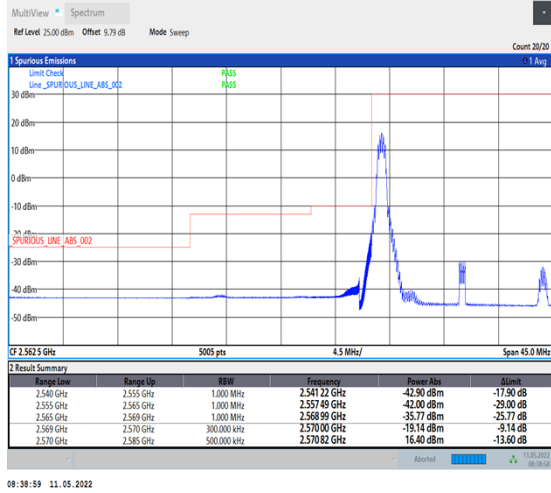
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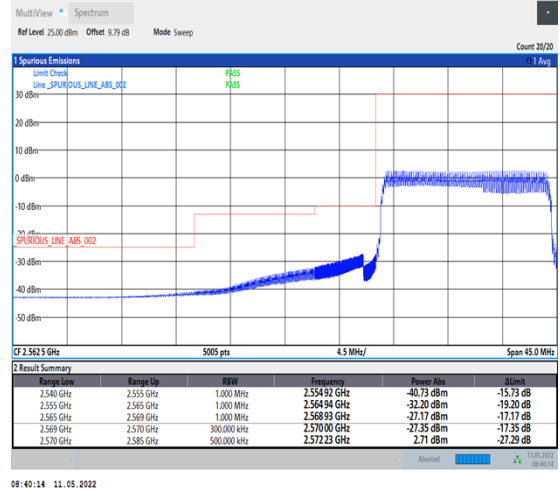
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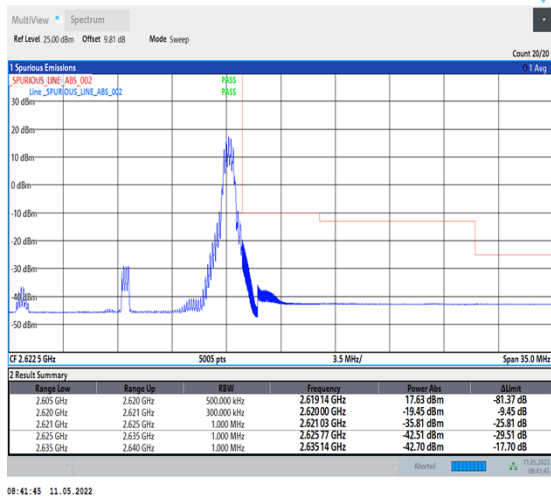
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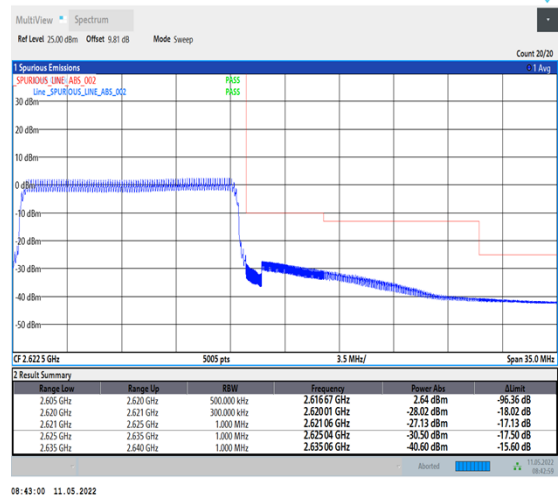
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1-N38-PC2-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant1-PASS-see graph



1-N38-PC2-30-15-H-5-CP-QPSK-Edge_1RB_Right-1@37-Ant1-PASS-see graph



1-N38-PC2-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant1-PASS-see graph



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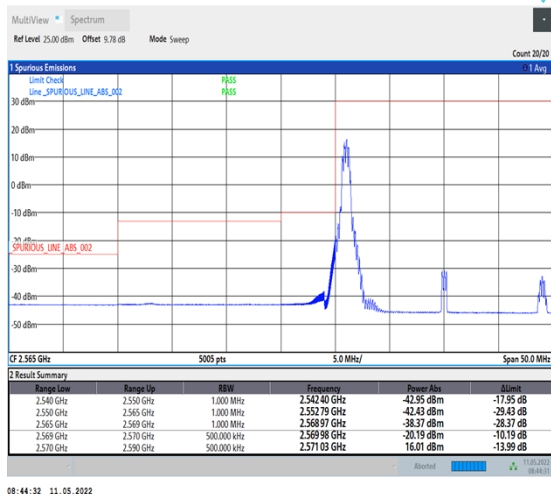
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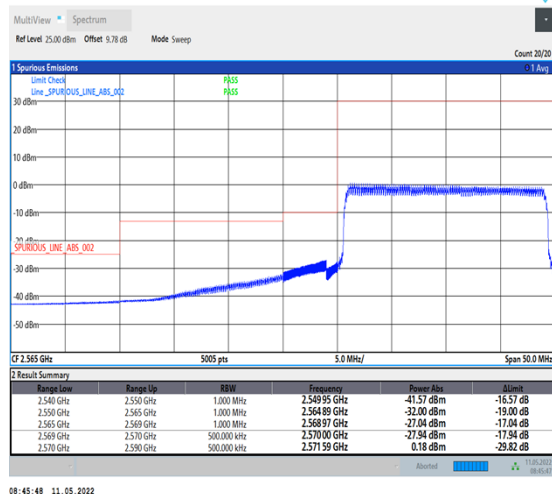
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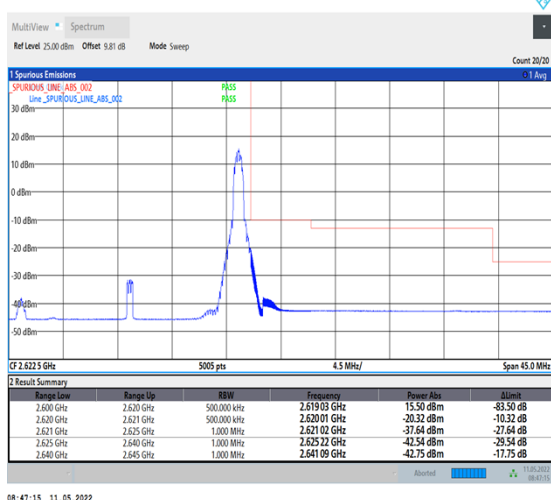
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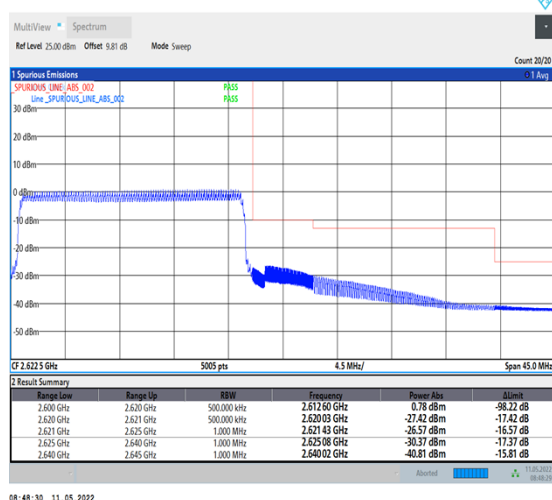
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1-N38-PC2-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant1-PASS-see graph



1-N38-PC2-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant1-PASS-see graph



1-N38-PC2-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant1-PASS-see graph



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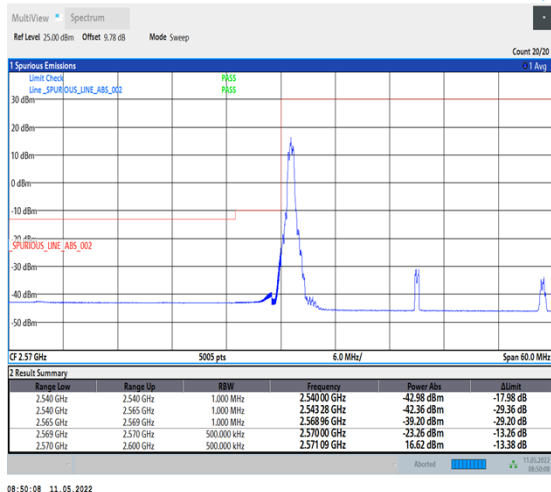
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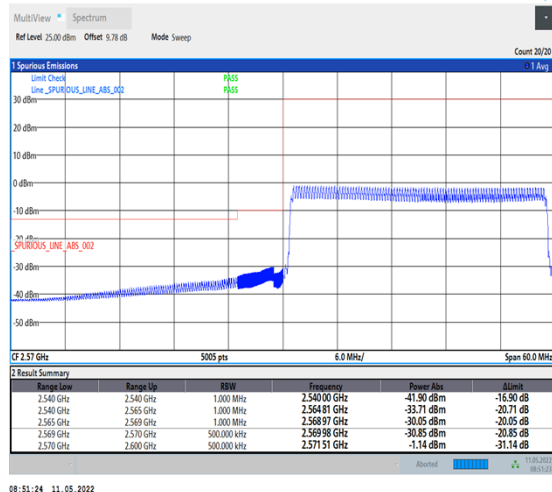
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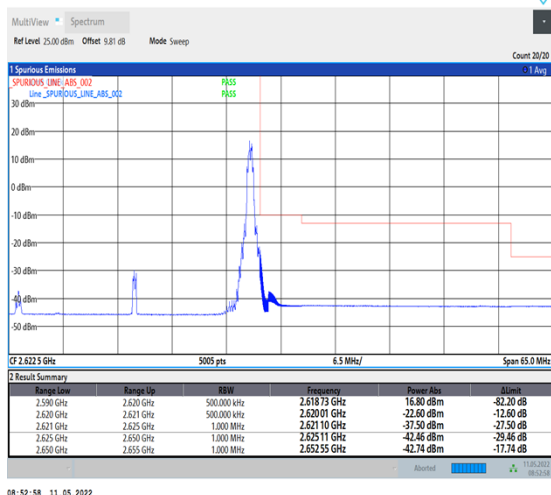
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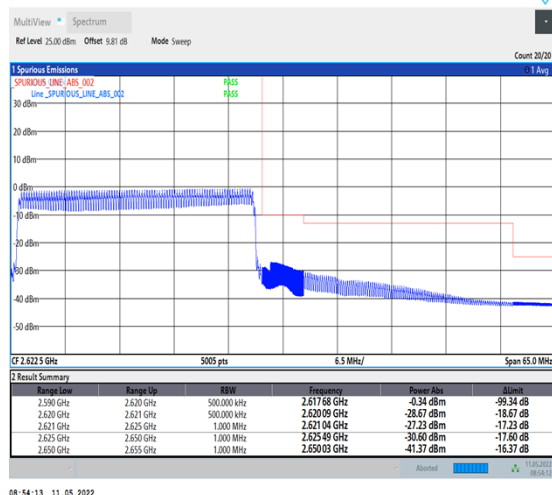
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1-N38-PC2-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant1-PASS-see graph



1-N38-PC2-30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-Ant1-PASS-see graph



1-N38-PC2-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant1-PASS-see graph



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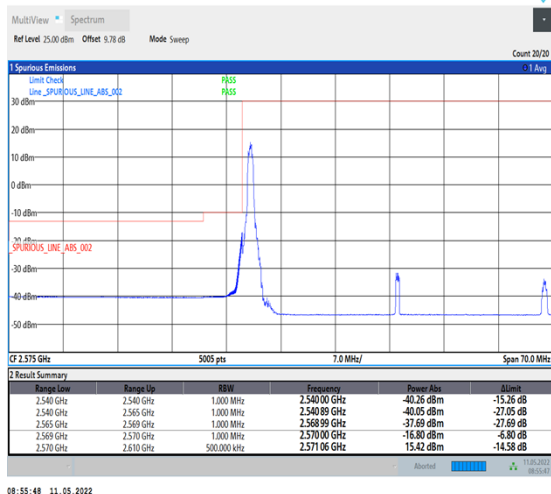
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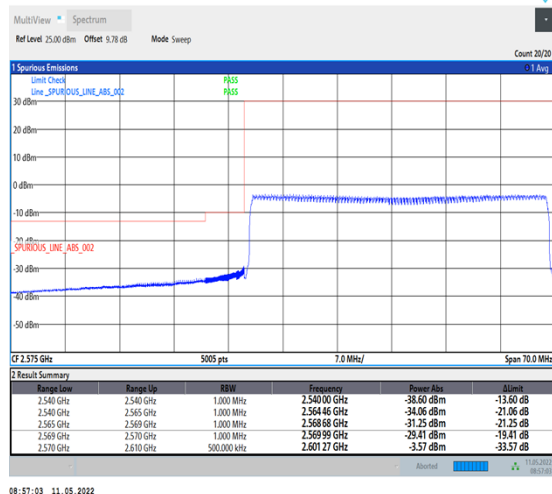
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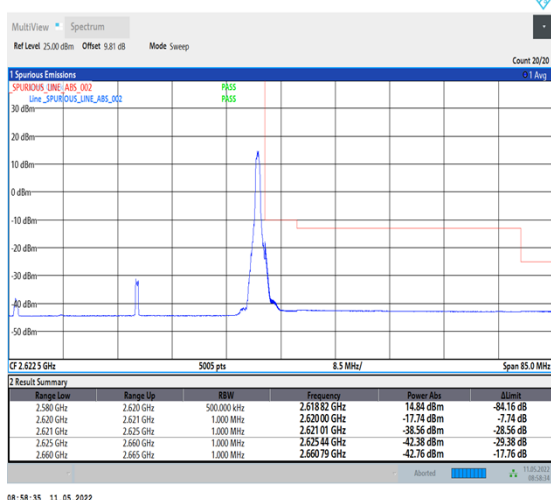
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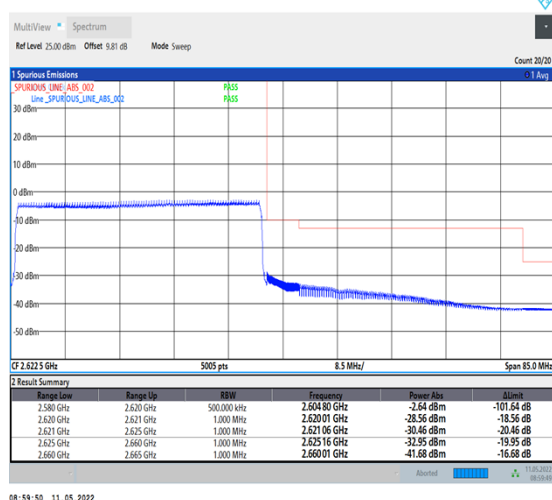
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1-N38-PC2-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-PASS-see graph



1-N38-PC2-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant1-PASS-see graph



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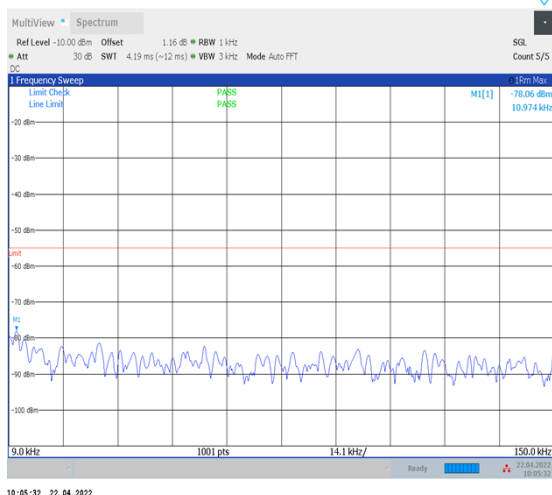
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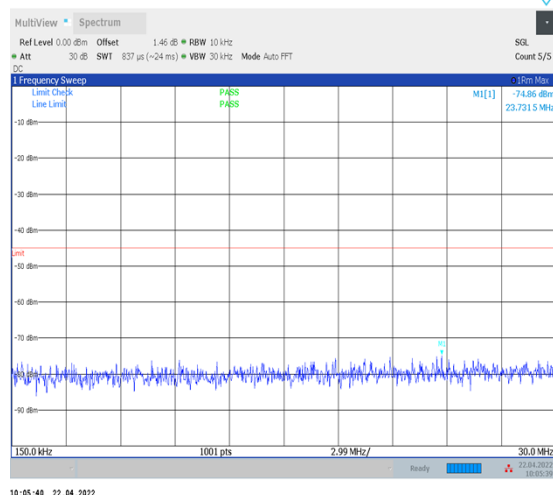
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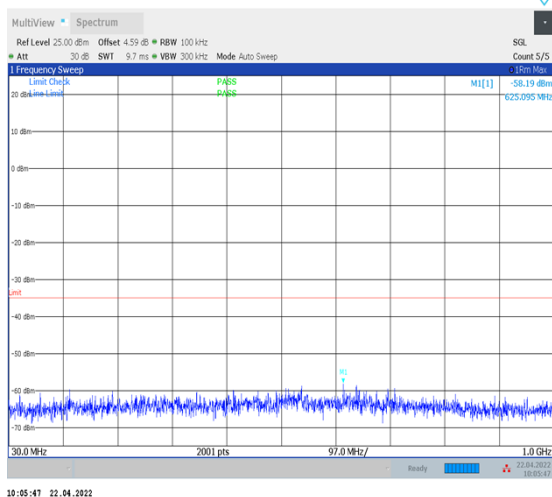
Test Graphs



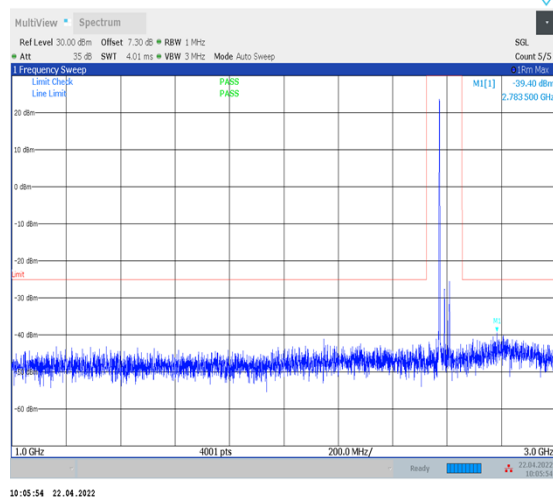
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1-N38--30-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--58.19--35-PASS



1-N38--30-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--39.40--25-PASS



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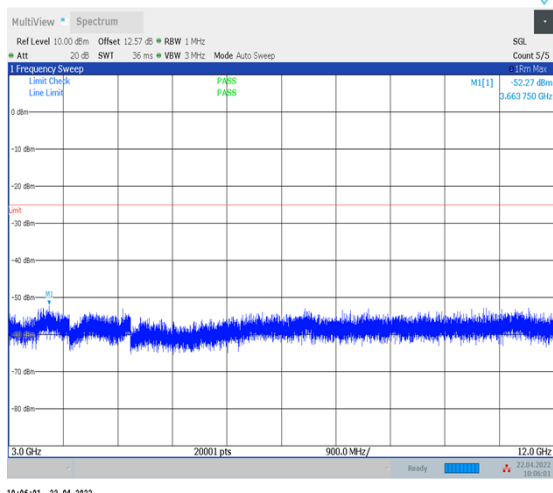
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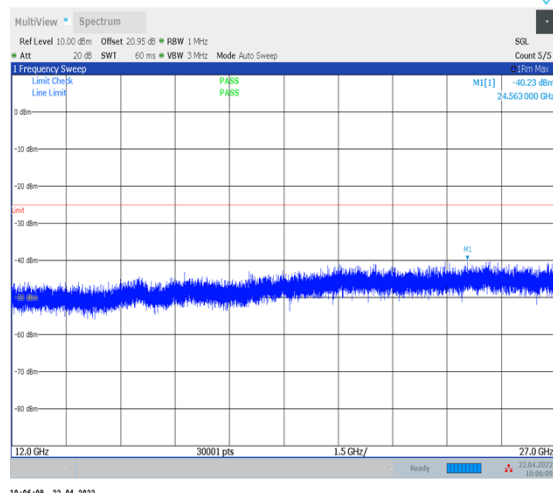
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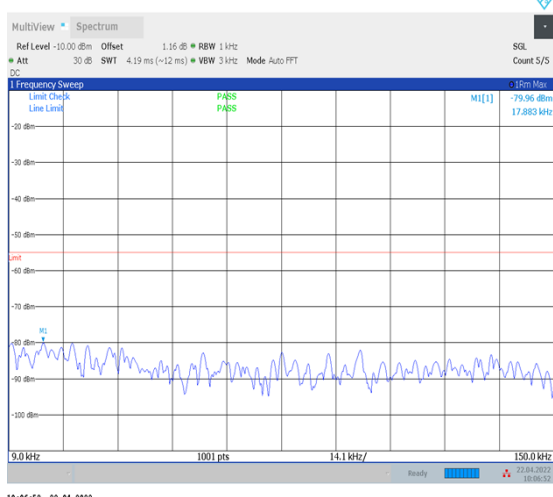
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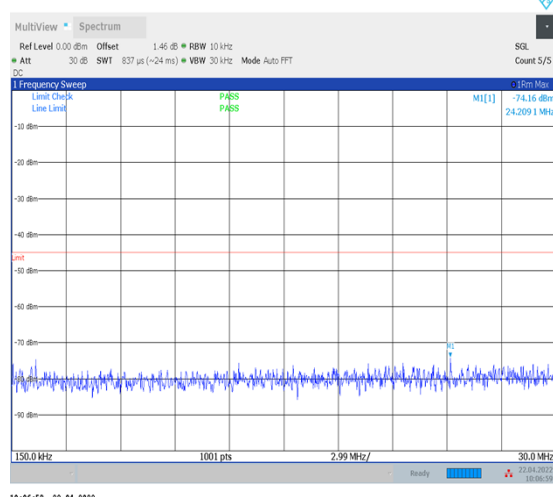
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1-N38--30-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--74.16--45-PASS



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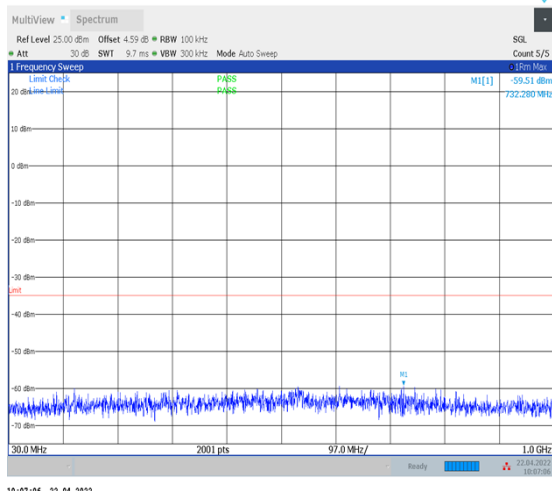
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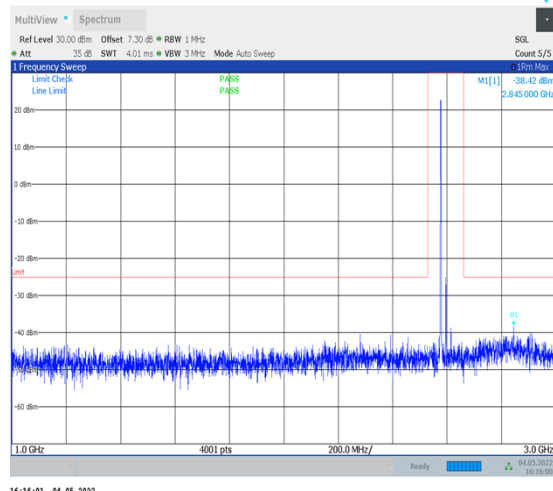
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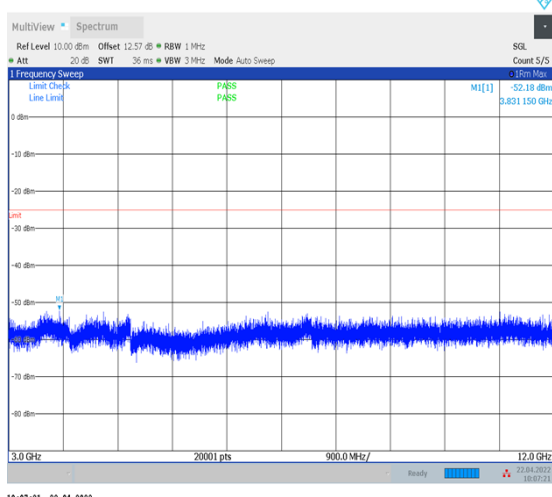
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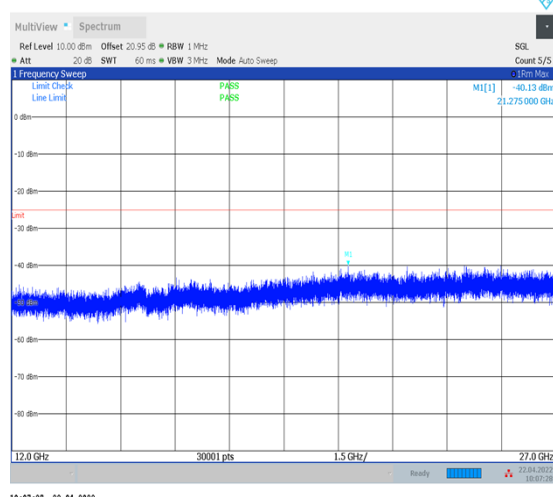
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1-N38--30-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-27000-Ant1--40.13--25-PASS



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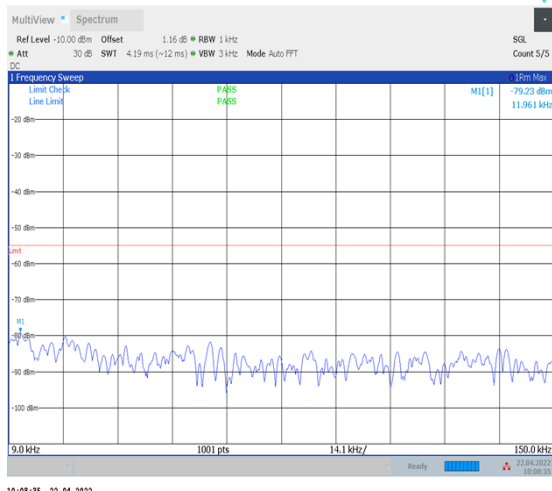
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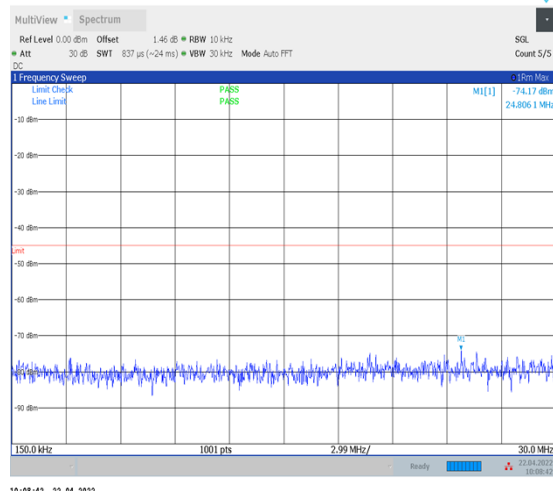
Report No.: SEWA2204000008RG02

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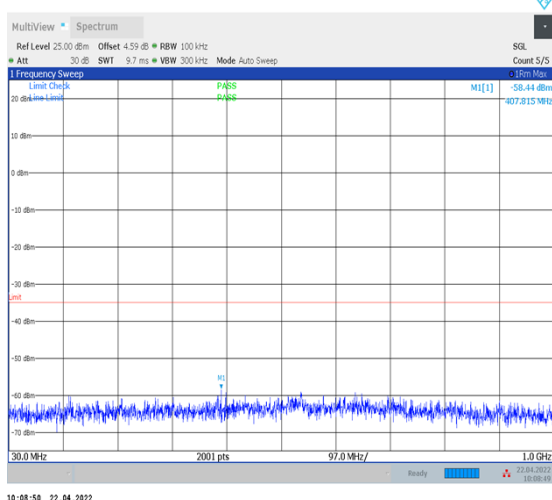
Page: 73 of 89



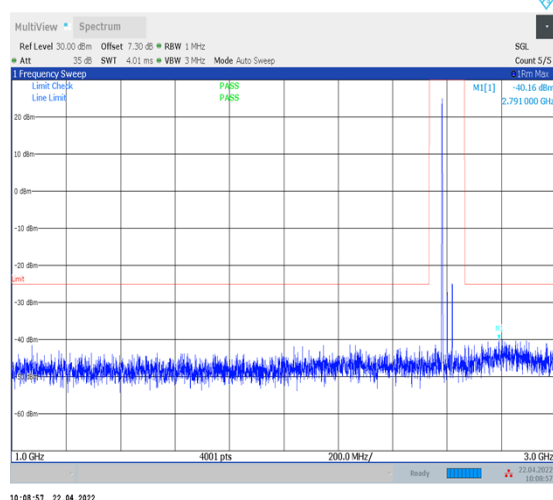
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1-N38--30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--74.17--45-PASS



1-N38--30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--58.44--35-PASS



1-N38--30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--40.16--25-PASS



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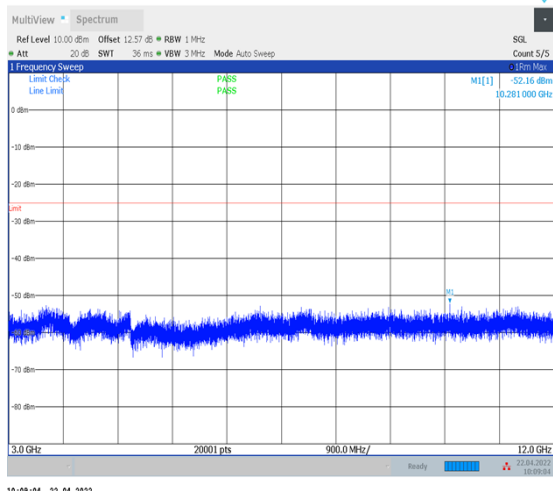
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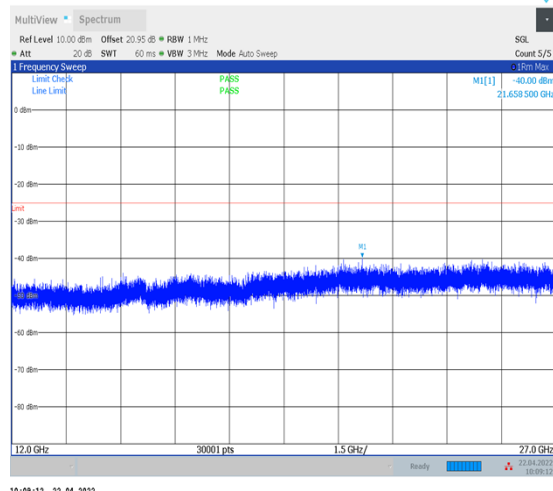
Report No.: SEWA2204000008RG02

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1-N38--30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-3000-12000-Ant1--52.16--25-PASS



1-N38--30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-12000-27000-Ant1--40.00--25-PASS



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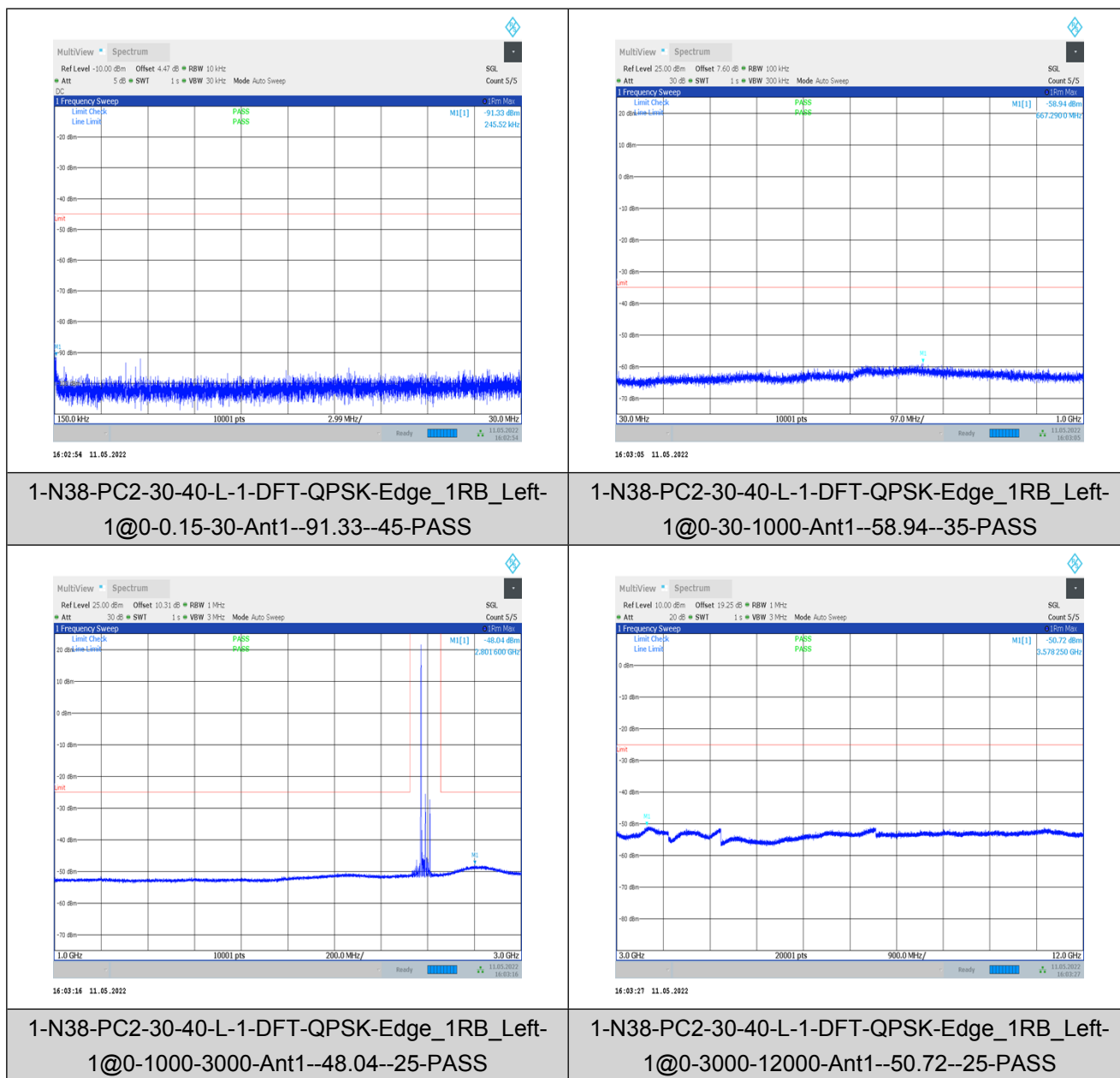
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Conducted Spurious Emission for MIMO

Test Graphs



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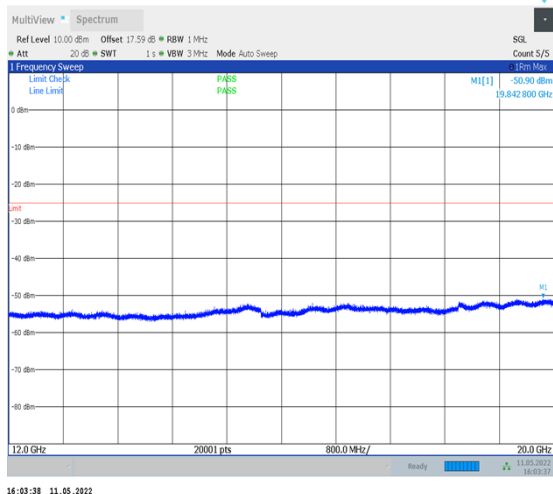
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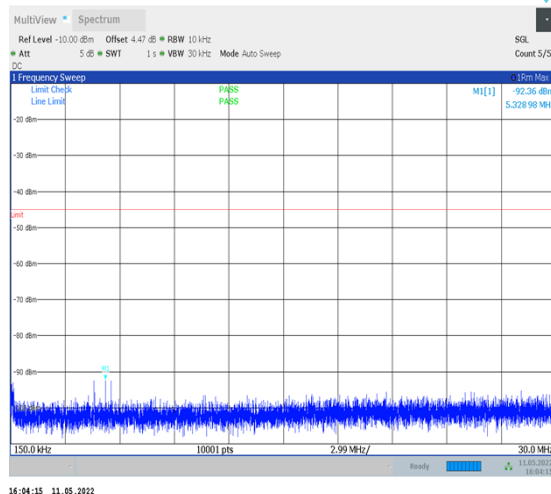
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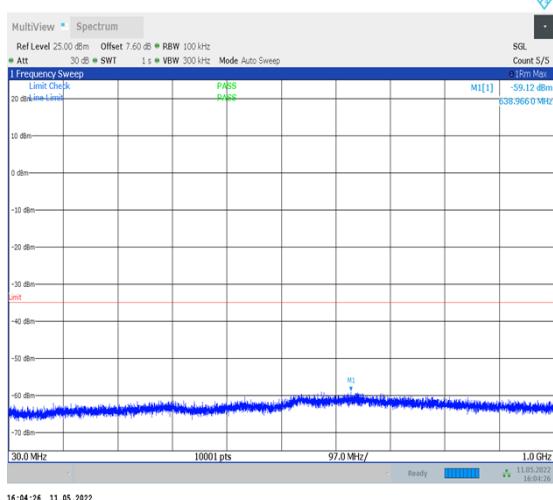
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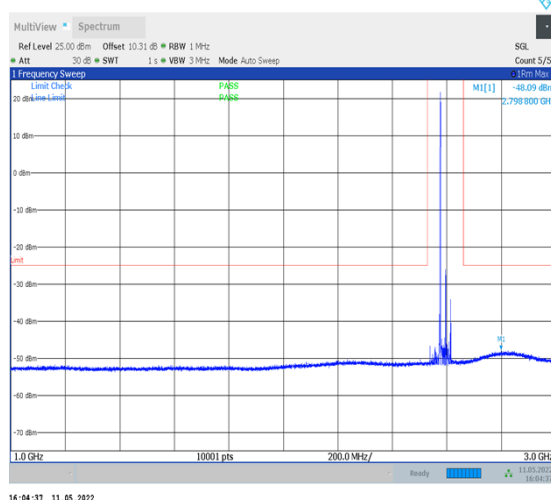
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1-N38-PC2-30-40-M-1-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant1--92.36--45-PASS



1-N38-PC2-30-40-M-1-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant1--59.12--35-PASS



1-N38-PC2-30-40-M-1-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant1--48.09--25-PASS



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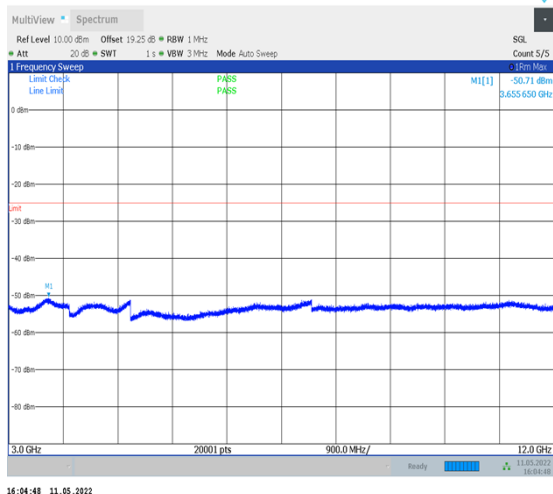
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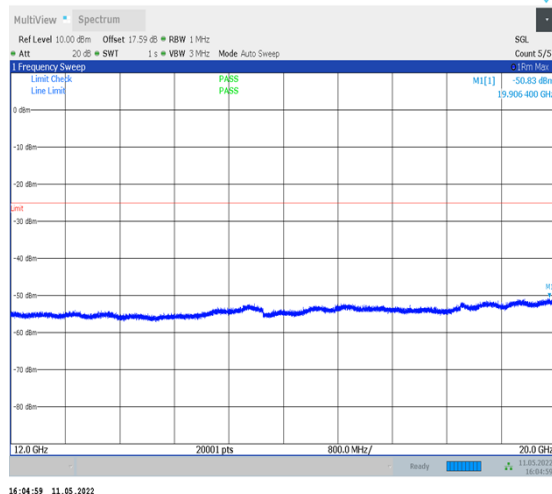
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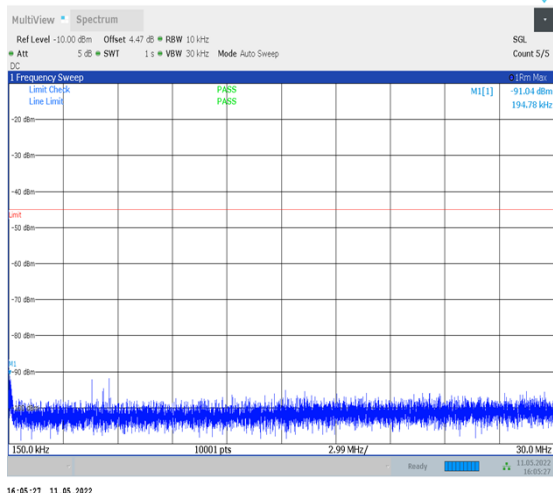
Page: 77 of 89



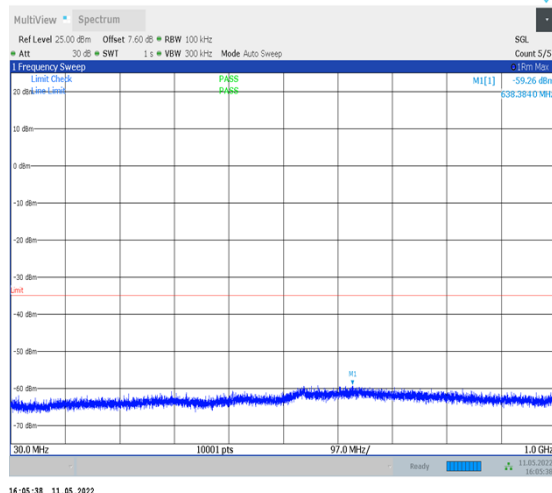
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1-N38-PC2-30-40-M-1-DFT-QPSK-Edge_1RB_Left-1@0-12000-20000-Ant1--50.83--25-PASS



1-N38-PC2-30-40-H-1-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant1--91.04--45-PASS



1-N38-PC2-30-40-H-1-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant1--59.26--35-PASS



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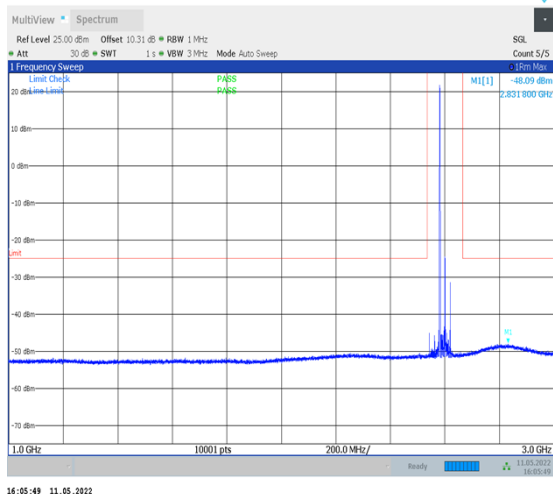
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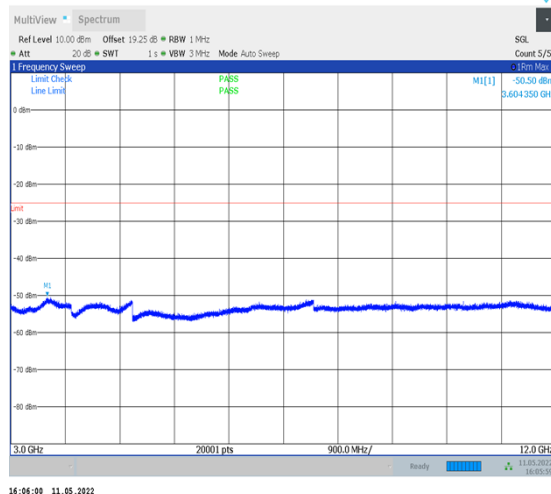
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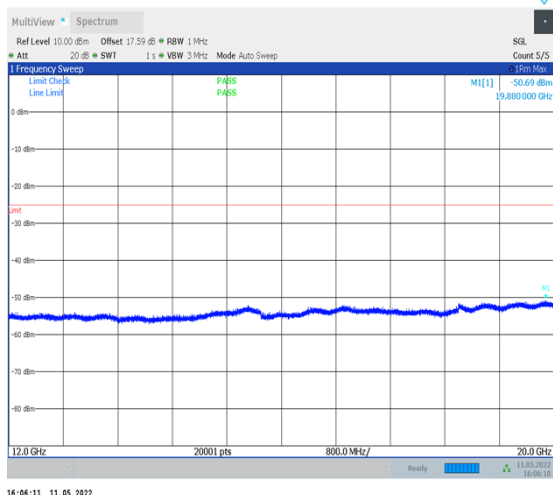
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1-N38-PC2-30-40-H-1-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant1--50.50--25-PASS



1-N38-PC2-30-40-H-1-DFT-QPSK-Edge_1RB_Left-1@0-12000-20000-Ant1--50.69--25-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 38_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.18	50.30	-106.89	-56.59	-25.00	31.59	263	185	Horizontal
2	7716.27	49.86	-99.54	-49.68	-25.00	24.68	251	221	Horizontal
3	10288.36	43.68	-93.24	-49.56	-25.00	24.56	174	102	Horizontal
4	12860.45	43.81	-90.75	-46.94	-25.00	21.94	186	149	Horizontal
5	15432.54	41.64	-90.59	-48.95	-25.00	23.95	254	78	Horizontal
6	17860.7143	41.93	-84.18	-42.25	-25.00	17.25	188	349	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.18	49.89	-106.89	-57.00	-25.00	32.00	162	327	Vertical
2	7716.27	50.02	-99.54	-49.52	-25.00	24.52	241	338	Vertical
3	10288.36	43.64	-93.24	-49.60	-25.00	24.60	176	70	Vertical
4	12860.45	44.15	-90.75	-46.60	-25.00	21.60	263	199	Vertical
5	15432.54	41.06	-90.59	-49.53	-25.00	24.53	284	211	Vertical
6	17847.8571	41.95	-84.20	-42.25	-25.00	17.25	166	267	Vertical



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Test Band = SA Band 38_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5154.18	49.73	-106.87	-57.14	-25.00	32.14	263	4	Horizontal
2	7731.27	48.93	-99.40	-50.47	-25.00	25.47	241	46	Horizontal
3	10308.36	43.13	-93.22	-50.09	-25.00	25.09	176	58	Horizontal
4	12885.45	42.73	-90.66	-47.93	-25.00	22.93	284	22	Horizontal
5	15462.54	41.57	-90.72	-49.15	-25.00	24.15	144	174	Horizontal
6	17858.5714	42.33	-84.18	-41.85	-25.00	16.85	185	186	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5154.18	49.74	-106.87	-57.13	-25.00	32.13	126	196	Vertical
2	7731.27	49.51	-99.40	-49.89	-25.00	24.89	262	326	Vertical
3	10308.36	43.48	-93.22	-49.74	-25.00	24.74	144	231	Vertical
4	12885.45	42.66	-90.66	-48.00	-25.00	23.00	149	207	Vertical
5	15462.54	41.39	-90.72	-49.33	-25.00	24.33	265	356	Vertical
6	17736.4286	42.62	-84.63	-42.01	-25.00	17.01	255	100	Vertical



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Test Band = SA Band 38_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5164.18	50.26	-106.86	-56.60	-25.00	31.60	263	199	Horizontal
2	7746.27	49.57	-99.27	-49.70	-25.00	24.70	241	1	Horizontal
3	10328.36	44.06	-93.13	-49.07	-25.00	24.07	178	115	Horizontal
4	12910.45	43.60	-90.62	-47.02	-25.00	22.02	265	327	Horizontal
5	15492.54	41.94	-90.85	-48.91	-25.00	23.91	284	327	Horizontal
6	17689.2857	43.66	-84.96	-41.30	-25.00	16.30	177	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5164.18	49.84	-106.86	-57.02	-25.00	32.02	263	7	Vertical
2	7746.27	48.55	-99.27	-50.72	-25.00	25.72	251	90	Vertical
3	10328.36	45.02	-93.13	-48.11	-25.00	23.11	147	114	Vertical
4	12910.45	43.06	-90.62	-47.56	-25.00	22.56	265	3	Vertical
5	15492.54	41.71	-90.85	-49.14	-25.00	24.14	145	209	Vertical
6	17845.7143	42.92	-84.20	-41.28	-25.00	16.28	268	173	Vertical



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Test Band = DC_5A-n38A_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.18	49.60	-106.89	-57.29	-25.00	32.29	163	341	Horizontal
2	7716.27	49.80	-99.54	-49.74	-25.00	24.74	254	176	Horizontal
3	10288.36	44.62	-93.24	-48.62	-25.00	23.62	175	165	Horizontal
4	12860.45	42.86	-90.75	-47.89	-25.00	22.89	263	105	Horizontal
5	15432.54	41.88	-90.59	-48.71	-25.00	23.71	284	253	Horizontal
6	17695.7143	46.34	-84.88	-38.54	-25.00	13.54	176	87	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.18	50.35	-106.89	-56.54	-25.00	31.54	142	96	Vertical
2	7716.27	49.42	-99.54	-50.12	-25.00	25.12	263	350	Vertical
3	10288.36	44.55	-93.24	-48.69	-25.00	23.69	251	357	Vertical
4	12860.45	44.17	-90.75	-46.58	-25.00	21.58	175	211	Vertical
5	15432.54	41.17	-90.59	-49.42	-25.00	24.42	284	226	Vertical
6	17877.8571	42.30	-84.15	-41.85	-25.00	16.85	199	357	Vertical



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Test Band = DC_5A-n38A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5154.18	50.43	-106.87	-56.44	-25.00	31.44	145	6	Horizontal
2	7731.27	49.06	-99.40	-50.34	-25.00	25.34	163	1	Horizontal
3	10308.36	43.48	-93.22	-49.74	-25.00	24.74	254	12	Horizontal
4	12885.45	43.09	-90.66	-47.57	-25.00	22.57	178	357	Horizontal
5	15462.54	42.45	-90.72	-48.27	-25.00	23.27	264	331	Horizontal
6	17695.7143	46.47	-84.88	-38.41	-25.00	13.41	142	62	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5154.18	50.18	-106.87	-56.69	-25.00	31.69	142	321	Vertical
2	7731.27	49.05	-99.40	-50.35	-25.00	25.35	263	198	Vertical
3	10308.36	43.74	-93.22	-49.48	-25.00	24.48	285	296	Vertical
4	12885.45	43.84	-90.66	-46.82	-25.00	21.82	241	102	Vertical
5	15462.54	42.35	-90.72	-48.37	-25.00	23.37	175	312	Vertical
6	17914.2857	42.48	-84.12	-41.64	-25.00	16.64	266	1	Vertical



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Test Band = DC_5A-n38A_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5164.18	49.75	-106.86	-57.11	-25.00	32.11	142	244	Horizontal
2	7746.27	49.04	-99.27	-50.23	-25.00	25.23	263	0	Horizontal
3	10328.36	44.26	-93.13	-48.87	-25.00	23.87	284	192	Horizontal
4	12910.45	43.39	-90.62	-47.23	-25.00	22.23	176	166	Horizontal
5	15492.54	41.32	-90.85	-49.53	-25.00	24.53	251	123	Horizontal
6	17695.7143	46.48	-84.88	-38.40	-25.00	13.40	144	228	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5164.18	49.11	-106.86	-57.75	-25.00	32.75	263	357	Vertical
2	7746.27	48.77	-99.27	-50.50	-25.00	25.50	251	122	Vertical
3	10328.36	42.85	-93.13	-50.28	-25.00	25.28	263	59	Vertical
4	12910.45	43.17	-90.62	-47.45	-25.00	22.45	255	193	Vertical
5	15492.54	41.44	-90.85	-49.41	-25.00	24.41	144	148	Vertical
6	17850	42.30	-84.20	-41.90	-25.00	16.90	255	17	Vertical



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Test Band = NR UL CA n25A-n38A_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	48.59	-111.07	-62.48	-25.00	37.48	174	85	Horizontal
2	5144.18	51.02	-106.89	-55.87	-25.00	30.87	142	67	Horizontal
3	5553.27	50.00	-106.36	-56.36	-25.00	31.36	165	60	Horizontal
4	7404.36	48.78	-100.77	-51.99	-25.00	26.99	241	0	Horizontal
5	7716.27	49.53	-99.54	-50.01	-25.00	25.01	263	277	Horizontal
6	10288.36	44.58	-93.24	-48.66	-25.00	23.66	251	24	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	49.45	-111.07	-61.62	-25.00	36.62	142	339	Vertical
2	5144.18	50.28	-106.89	-56.61	-25.00	31.61	263	1	Vertical
3	5553.27	50.58	-106.36	-55.78	-25.00	30.78	284	36	Vertical
4	7404.36	48.49	-100.77	-52.28	-25.00	27.28	176	202	Vertical
5	7716.27	49.05	-99.54	-50.49	-25.00	25.49	241	82	Vertical
6	10288.36	44.48	-93.24	-48.76	-25.00	23.76	263	219	Vertical



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Test Band = NR UL CA n25A-n38A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	742.18	42.14	-94.72	-52.58	-25.00	27.58	142	284	Horizontal
2	5154.18	50.19	-106.87	-56.68	-25.00	31.68	174	52	Horizontal
3	5613.27	49.95	-106.14	-56.19	-25.00	31.19	263	0	Horizontal
4	7484.36	49.05	-100.43	-51.38	-25.00	26.38	251	140	Horizontal
5	7731.27	48.86	-99.40	-50.54	-25.00	25.54	265	290	Horizontal
6	10308.36	44.18	-93.22	-49.04	-25.00	24.04	241	70	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	742.18	41.72	-94.72	-53.00	-25.00	28.00	142	49	Vertical
2	5154.18	49.74	-106.87	-57.13	-25.00	32.13	263	281	Vertical
3	5613.27	50.83	-106.14	-55.31	-25.00	30.31	284	148	Vertical
4	7484.36	47.89	-100.43	-52.54	-25.00	27.54	176	121	Vertical
5	7731.27	49.95	-99.40	-49.45	-25.00	24.45	254	237	Vertical
6	10308.36	43.78	-93.22	-49.44	-25.00	24.44	122	159	Vertical



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Test Band = NR UL CA n25A-n38A_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3792.18	49.82	-110.61	-60.79	-25.00	35.79	174	331	Horizontal
2	5164.18	49.81	-106.86	-57.05	-25.00	32.05	142	146	Horizontal
3	5688.27	49.72	-105.81	-56.09	-25.00	31.09	163	105	Horizontal
4	7584.36	48.47	-99.90	-51.43	-25.00	26.43	241	69	Horizontal
5	7746.27	49.82	-99.27	-49.45	-25.00	24.45	263	306	Horizontal
6	10328.36	43.27	-93.13	-49.86	-25.00	24.86	254	340	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3792.18	49.69	-110.61	-60.92	-25.00	35.92	142	0	Vertical
2	5164.18	50.12	-106.86	-56.74	-25.00	31.74	263	17	Vertical
3	5688.27	51.17	-105.81	-54.64	-25.00	29.64	284	306	Vertical
4	7584.36	49.21	-99.90	-50.69	-25.00	25.69	176	173	Vertical
5	7746.27	49.48	-99.27	-49.79	-25.00	24.79	241	269	Vertical
6	10328.36	43.89	-93.13	-49.24	-25.00	24.24	152	96	Vertical



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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
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.000000	-0.000771	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-0.400000	-0.000154	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	3.100000	0.001195	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VH	NT	1.600000	0.000617	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VN	NT	-0.400000	-0.000154	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VL	NT	1.100000	0.000424	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.500000	-0.000963	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	8.200000	0.003160	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-0.600000	-0.000231	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.600000	-0.001002	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	1.200000	0.000462	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	1.800000	0.000694	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	7.800000	0.003006	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.500000	-0.000193	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	2.500000	0.000963	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-30	-1.600000	-0.000617	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-20	0.500000	0.000193	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-10	-0.500000	-0.000193	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	0	6.900000	0.002659	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	10	6.300000	0.002428	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	20	5.600000	0.002158	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	30	-1.400000	-0.000539	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	40	-1.100000	-0.000424	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	50	-2.300000	-0.000886	PASS

The End



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