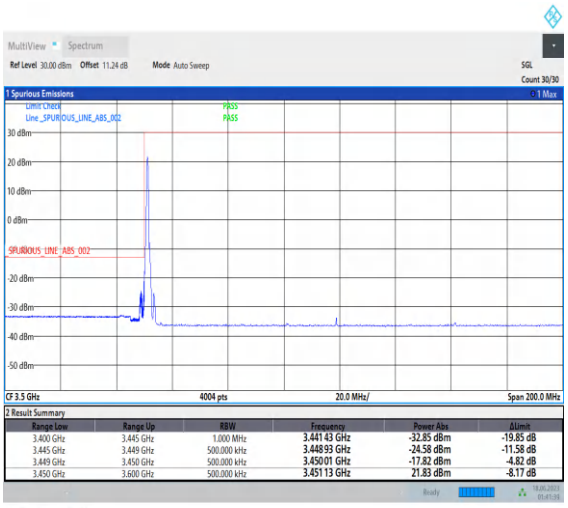

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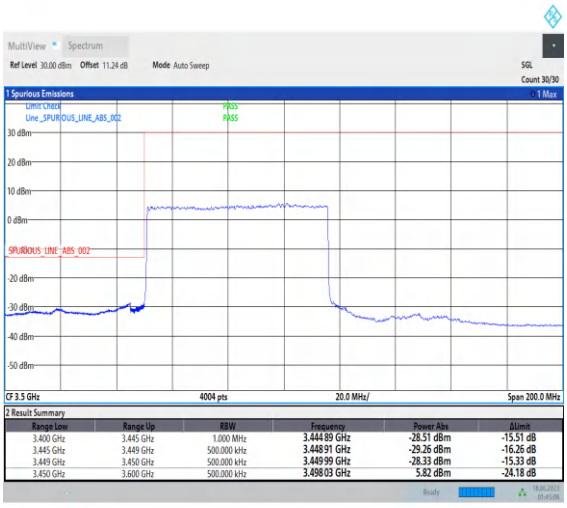

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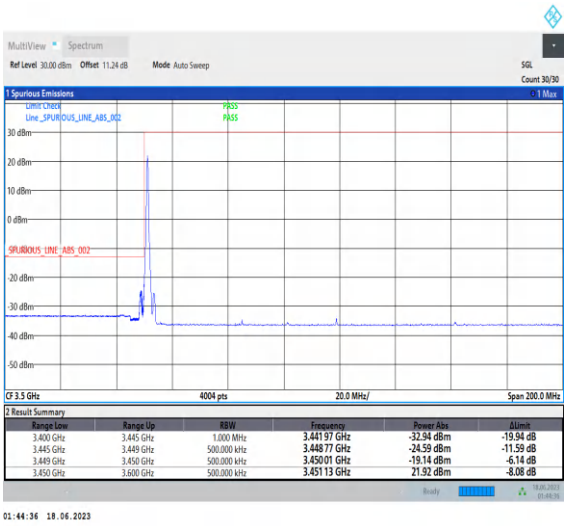

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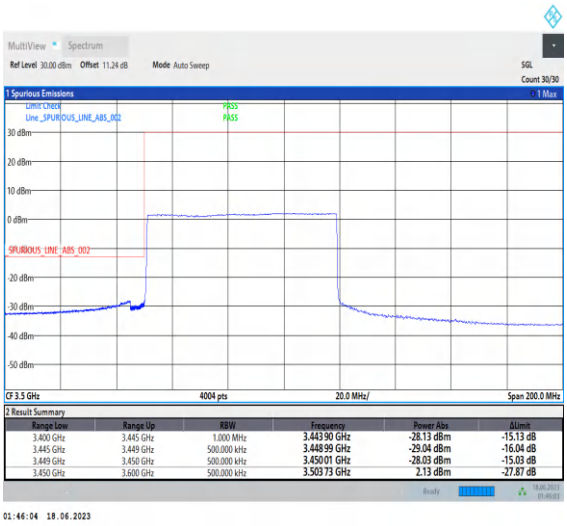

1-N78-3450-3550-PC2-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant2-1--PASS-see graph

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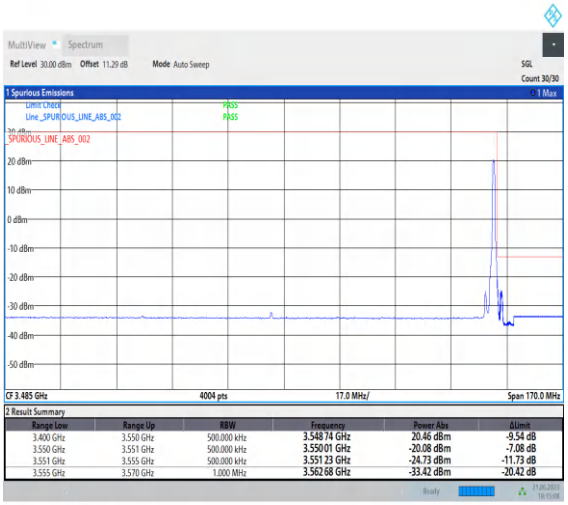

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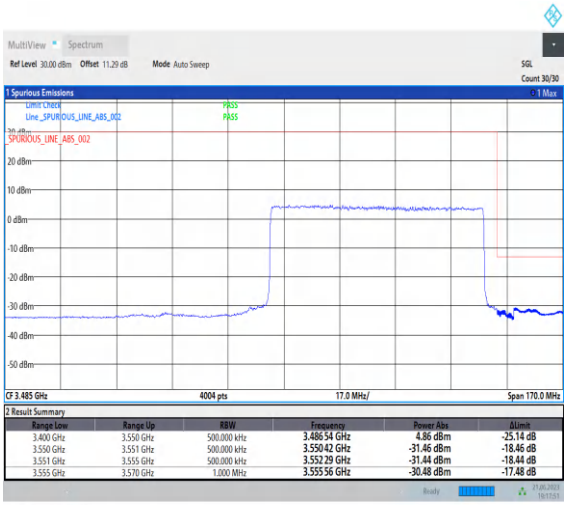

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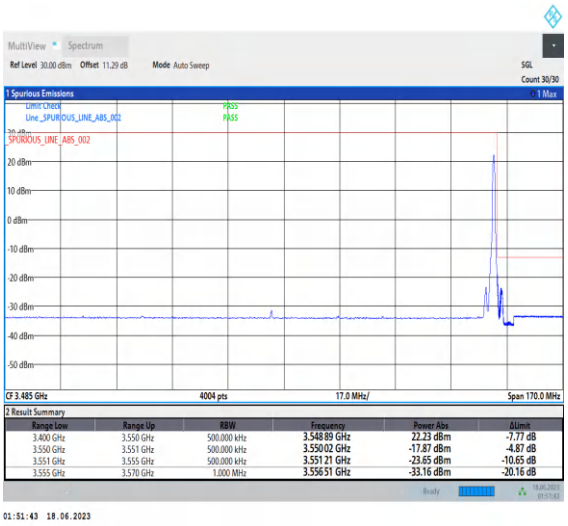

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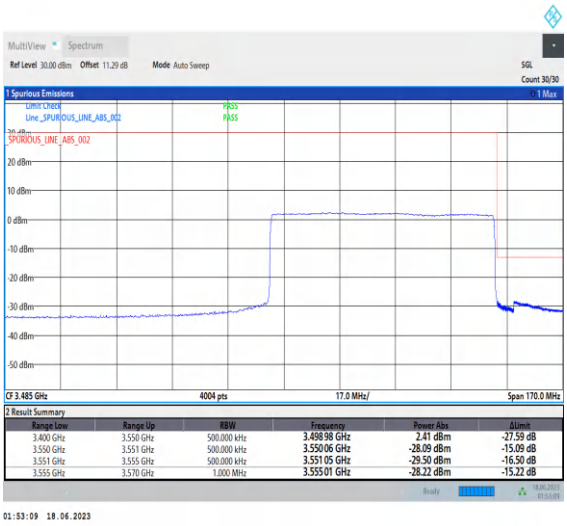

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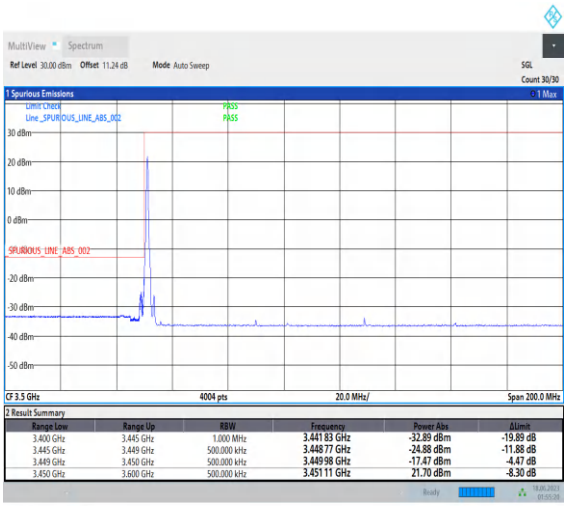

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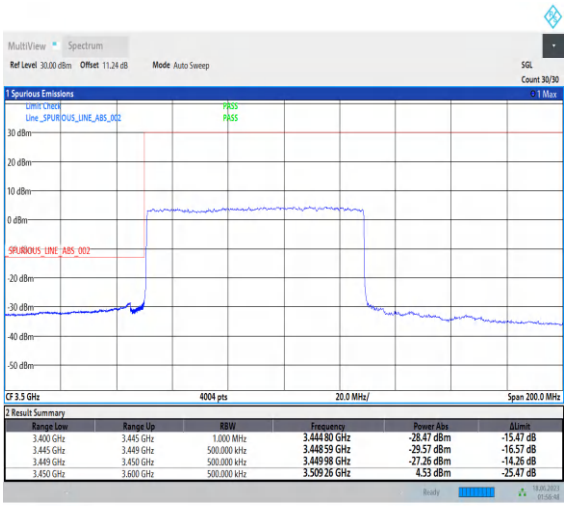

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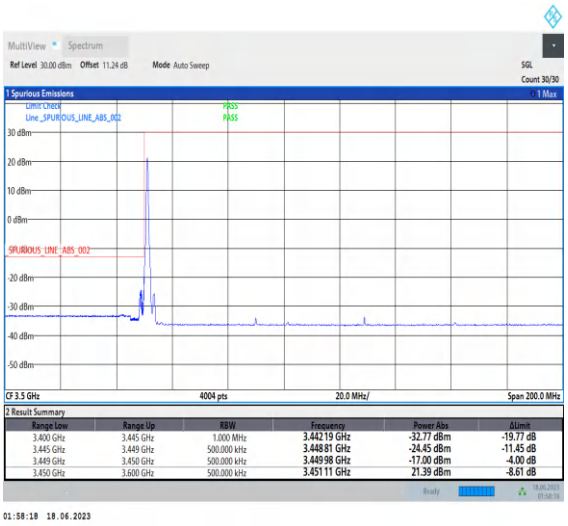

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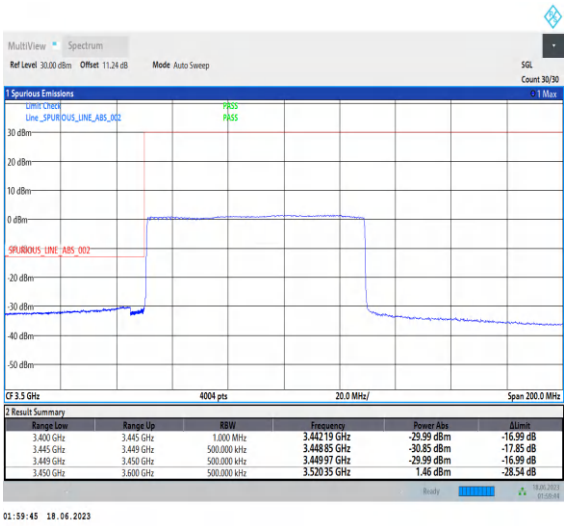

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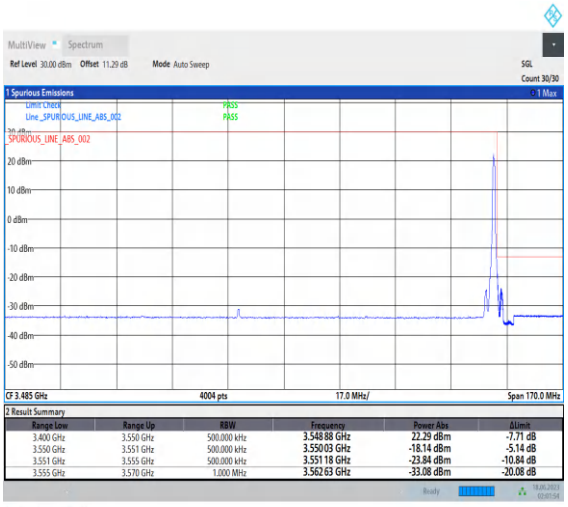

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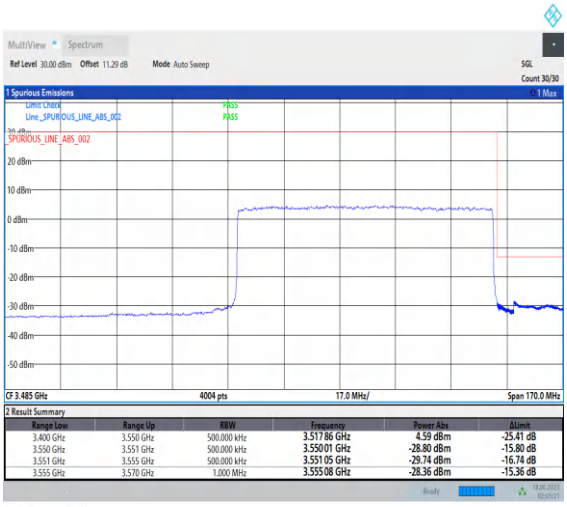

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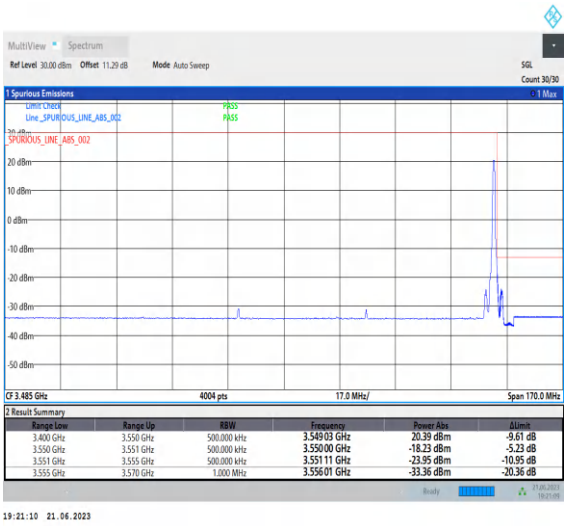

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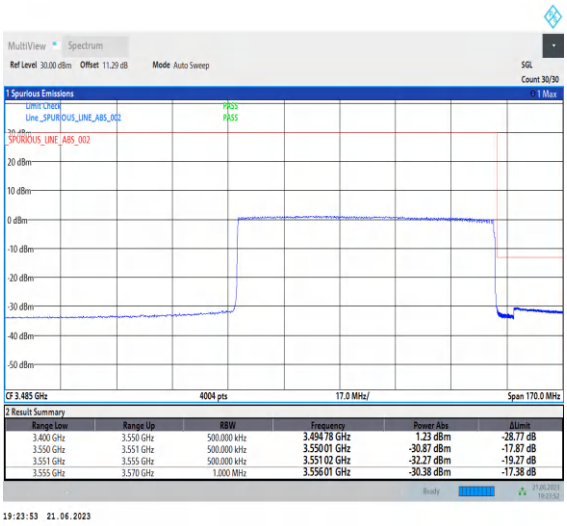

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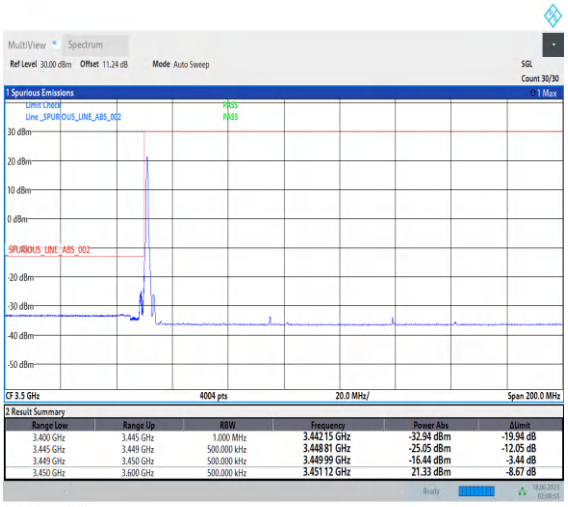

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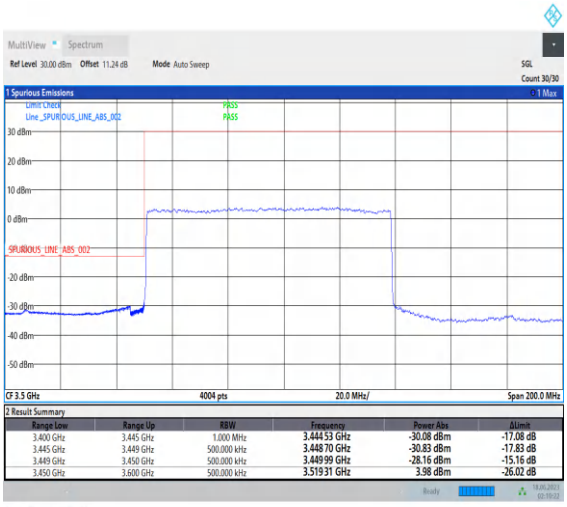

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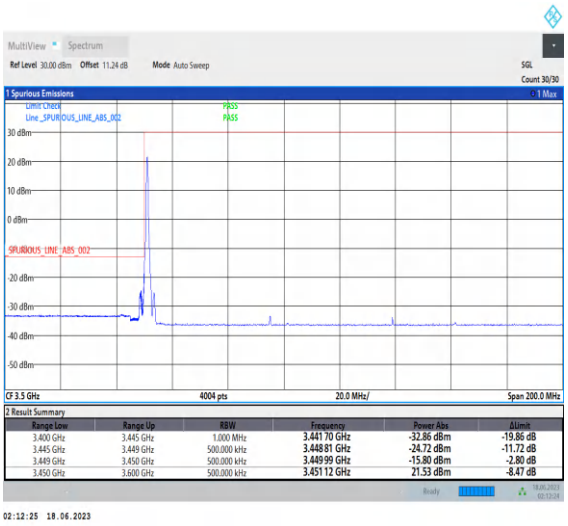

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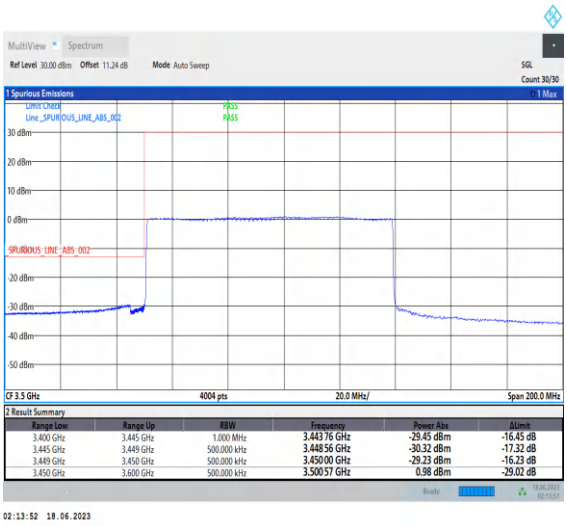

1-N78-3450-3550-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant2-1--PASS-see graph

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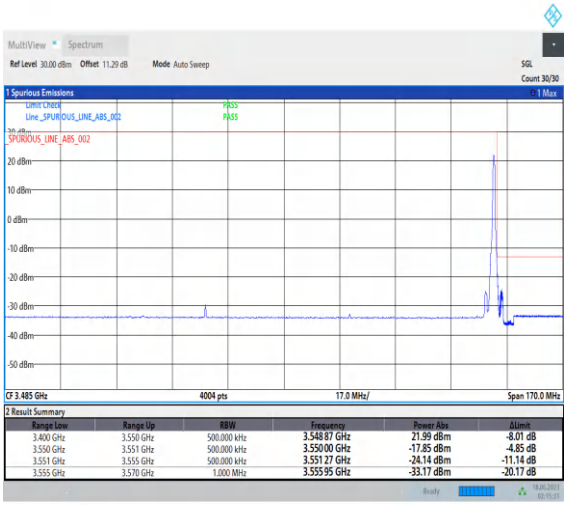

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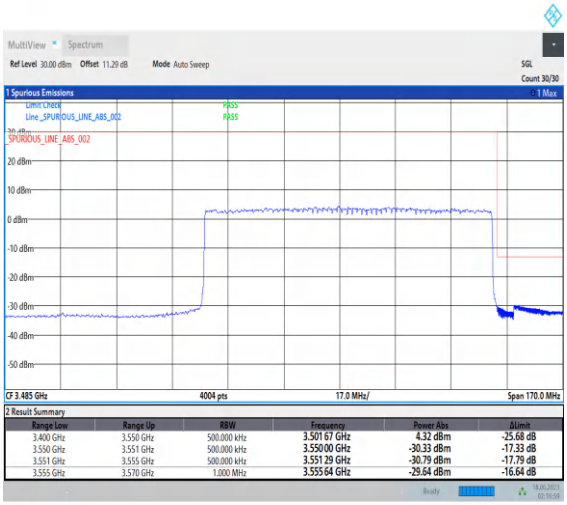

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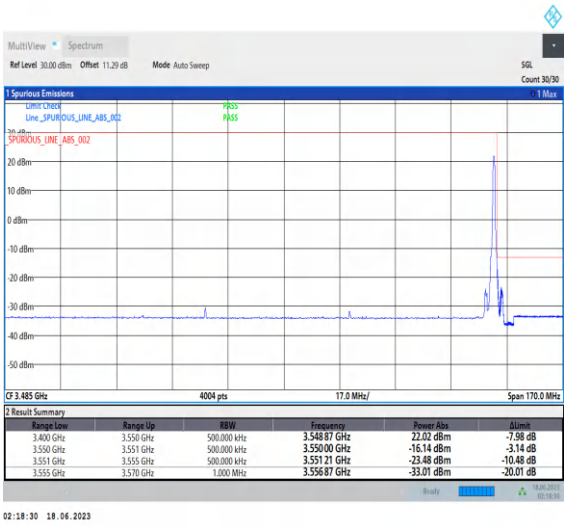

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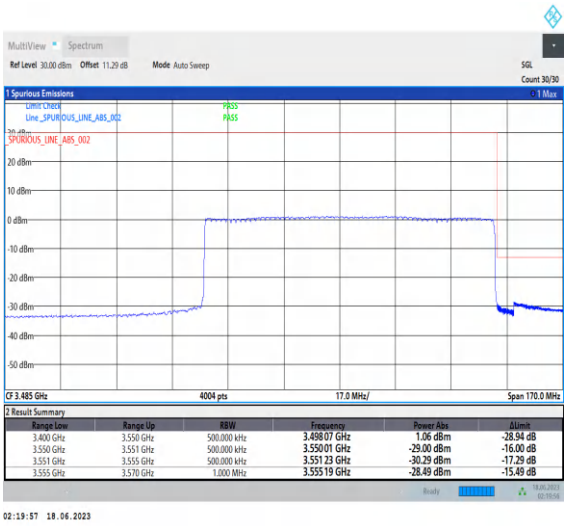

1-N78-3450-3550-PC2-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant2-1--PASS-see graph

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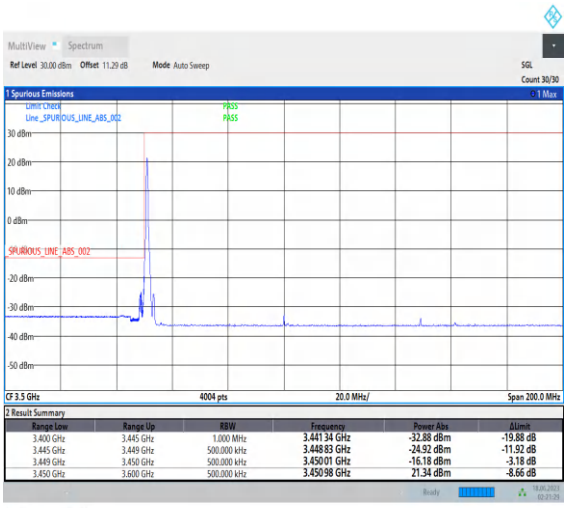

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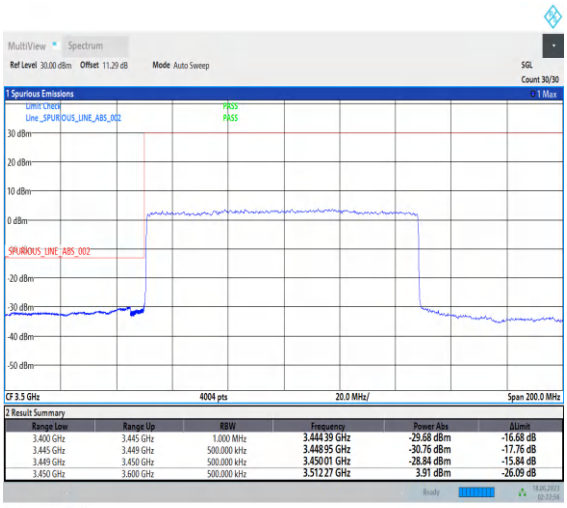

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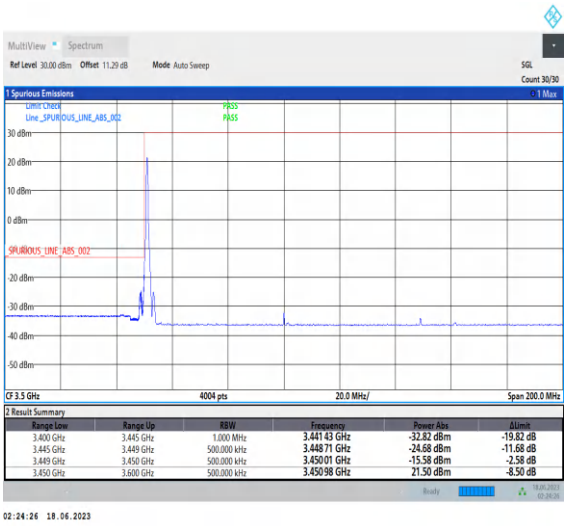

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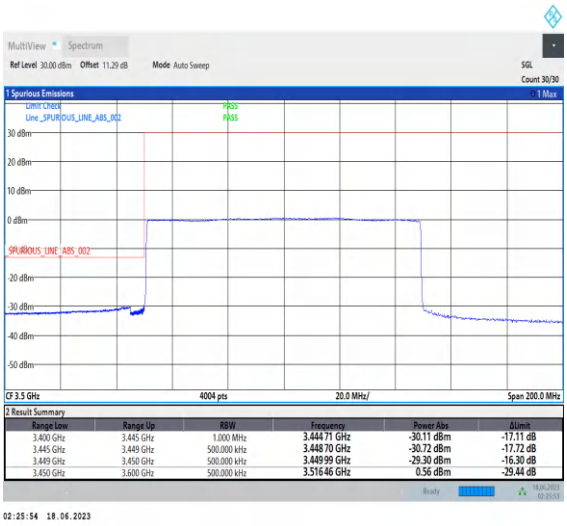

1-N78-3450-3550-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant2-1--PASS-see graph

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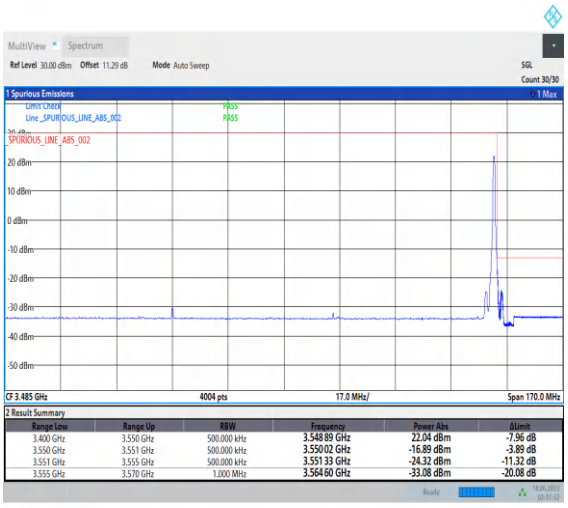

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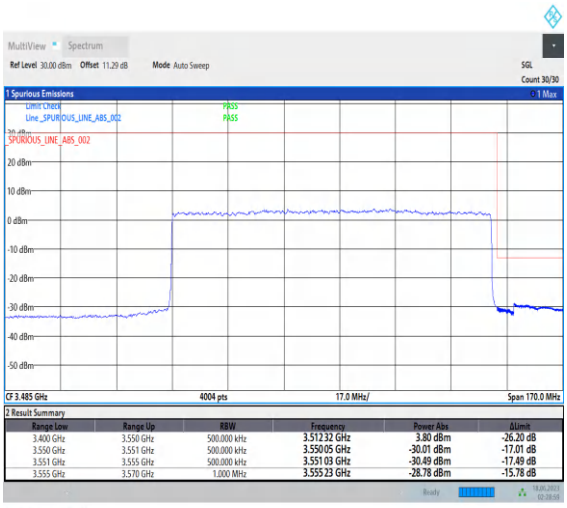

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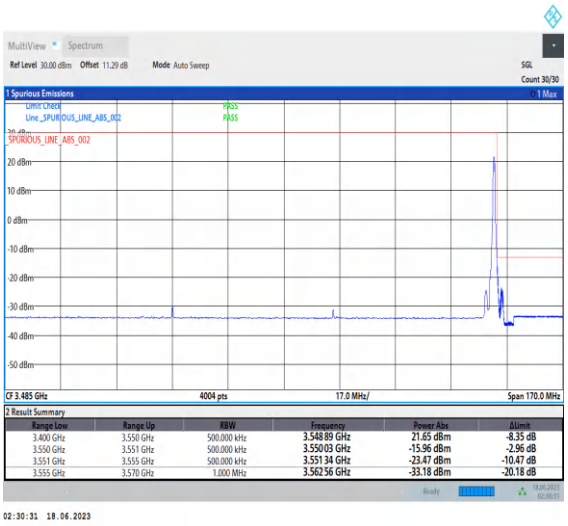

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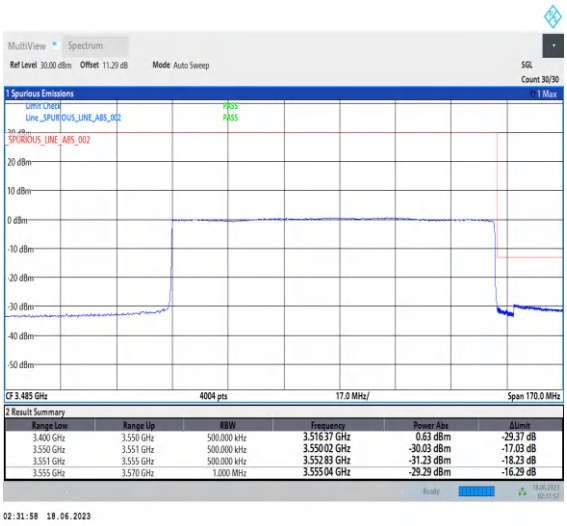

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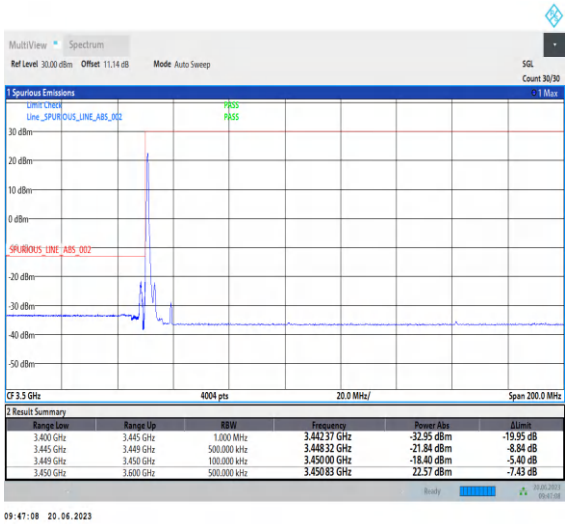
Band Edge for MIMO

Test Graphs



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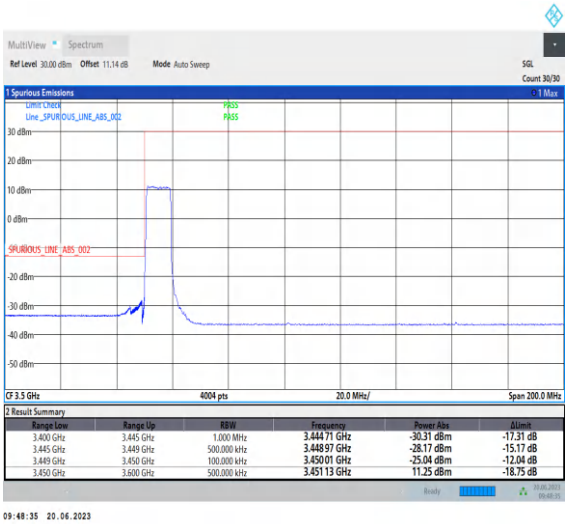

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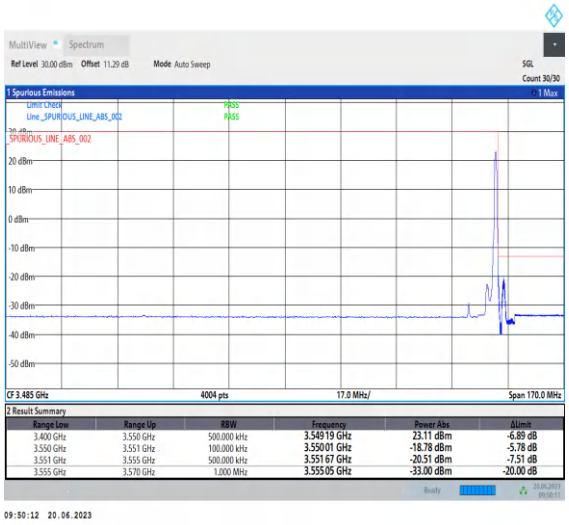

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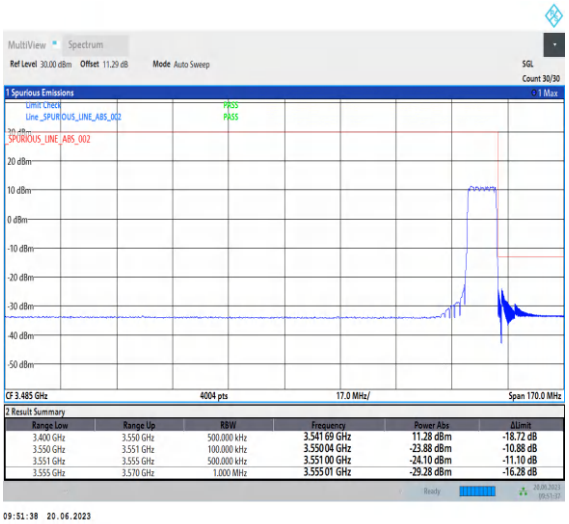

1-N78-3450-3550-PC2-30-10-H-3-CP-QPSK-Outer_Full-24@0-Ant2-1--PASS-see graph

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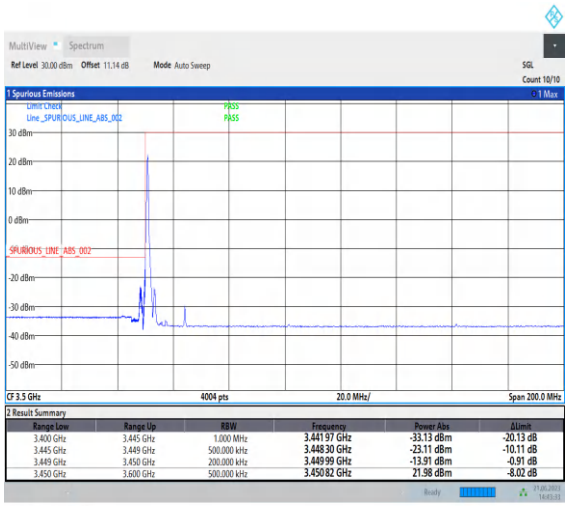

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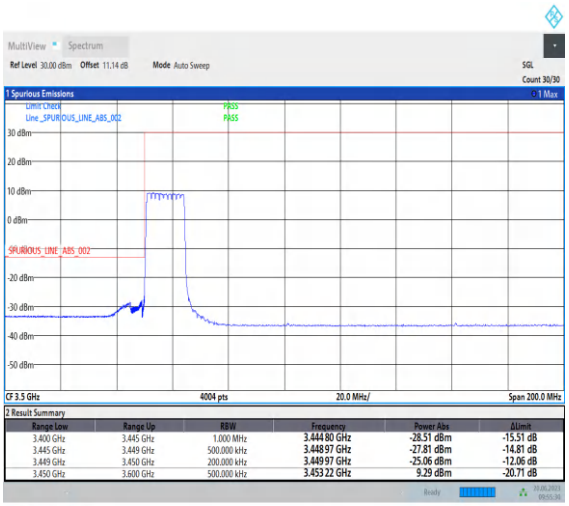

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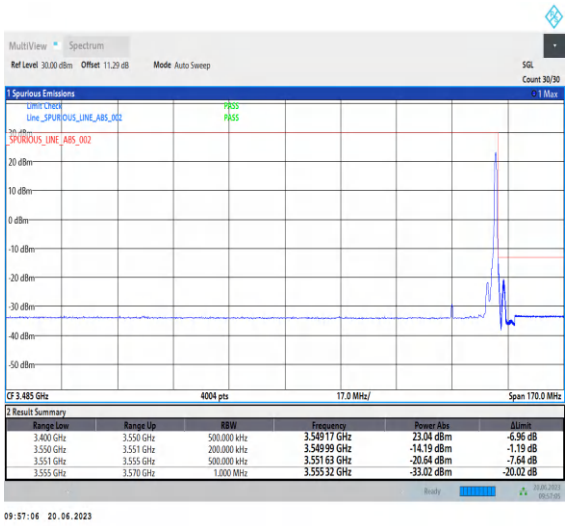

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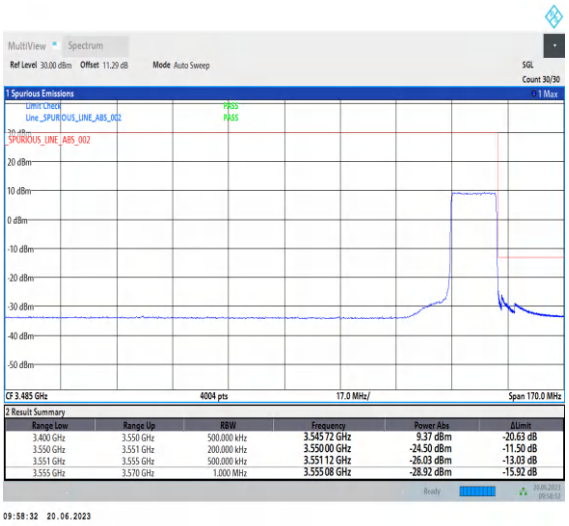

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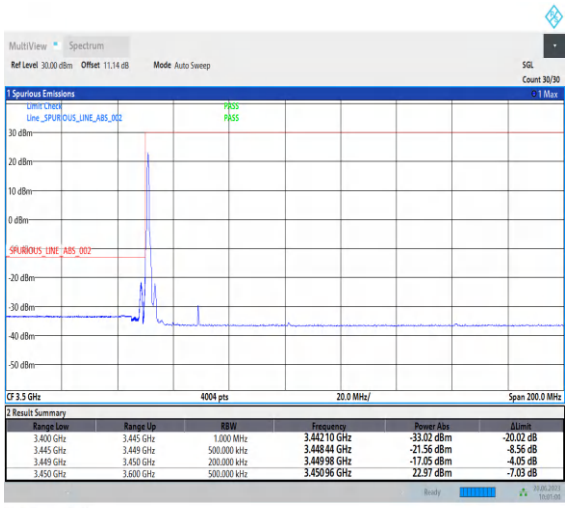

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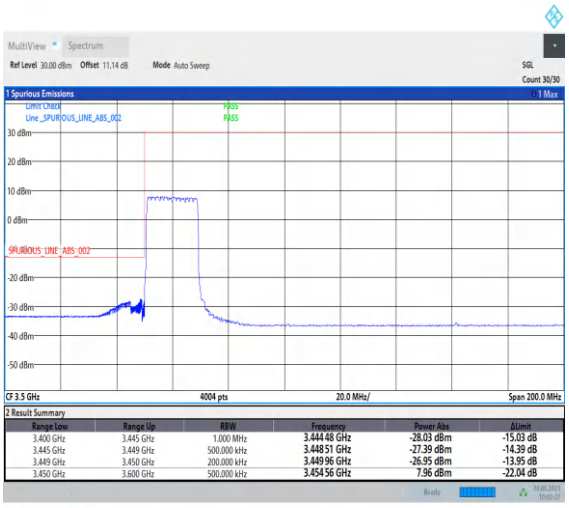

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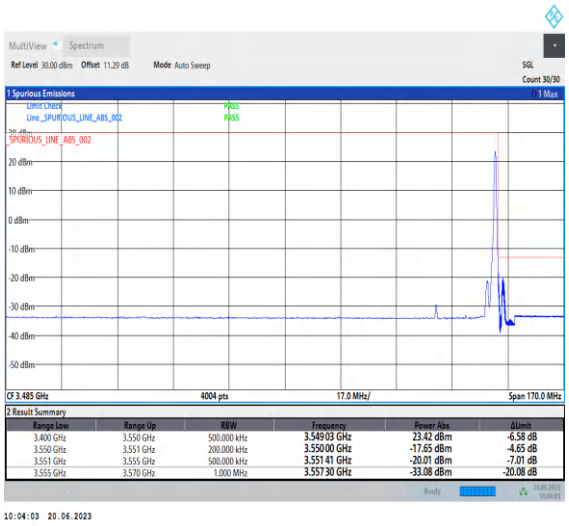

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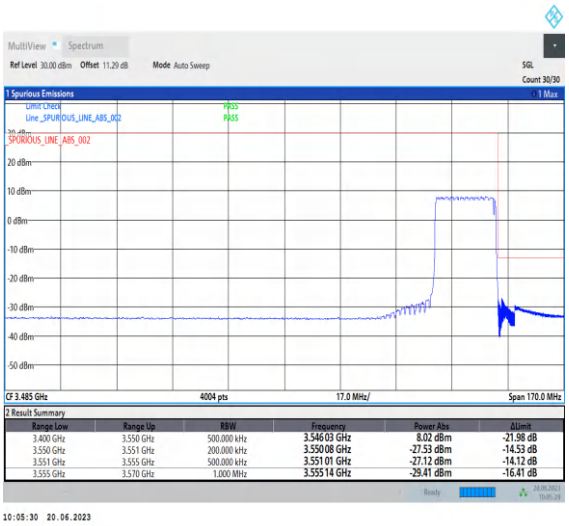

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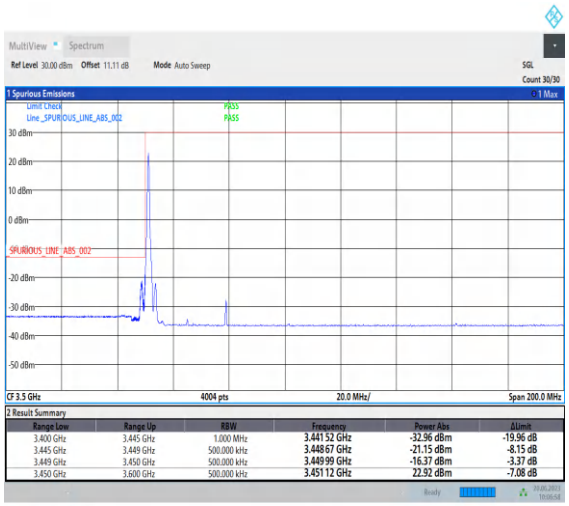

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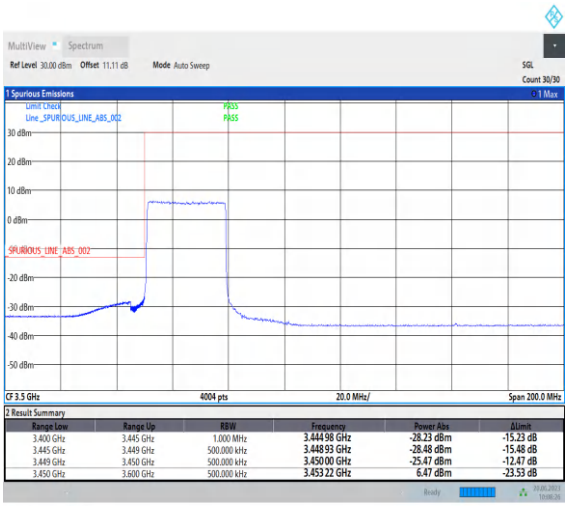

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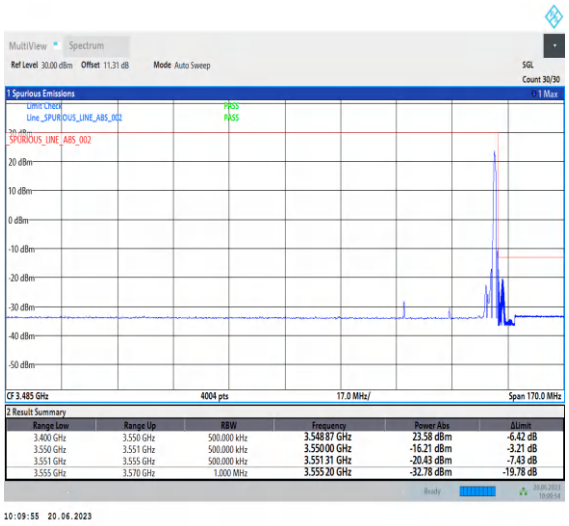

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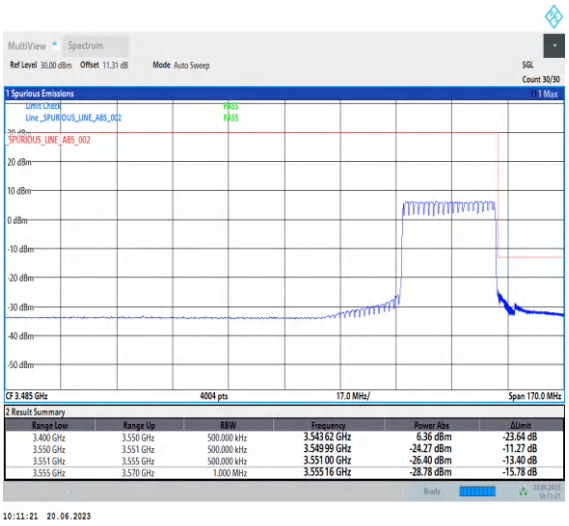

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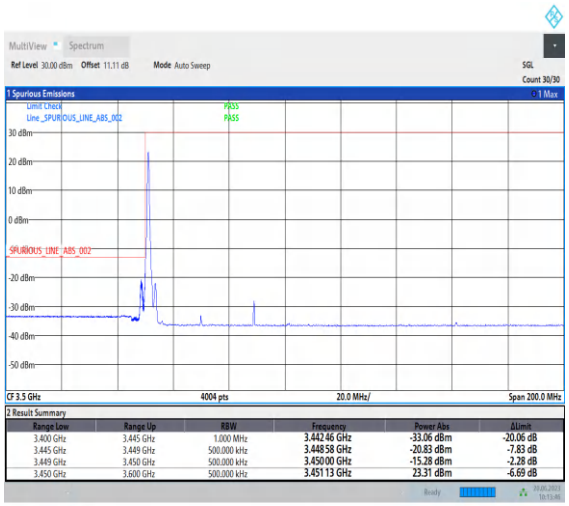

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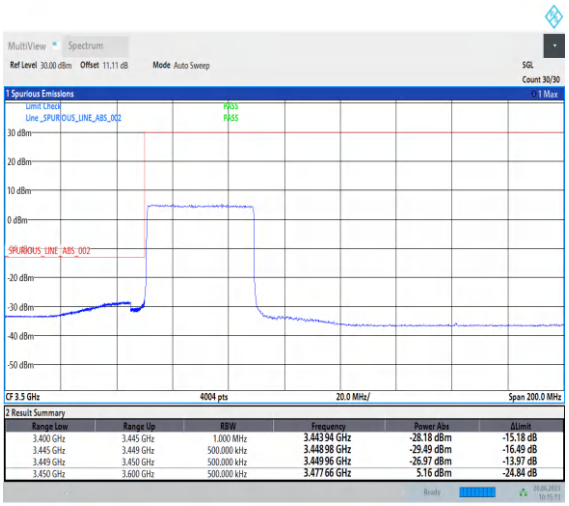

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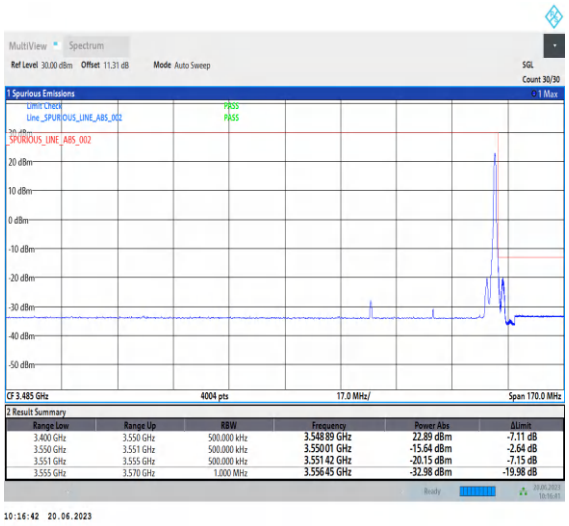

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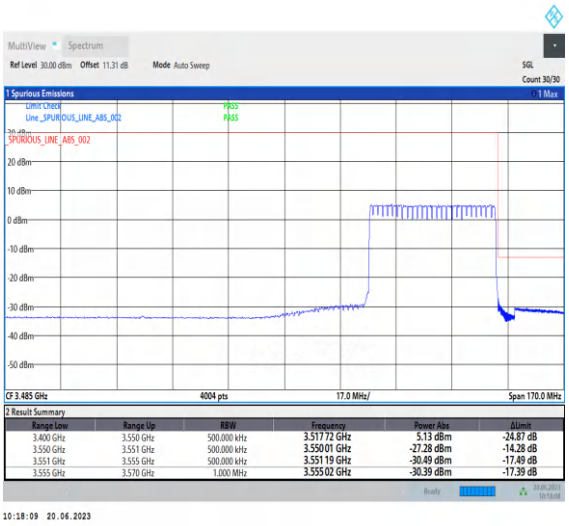

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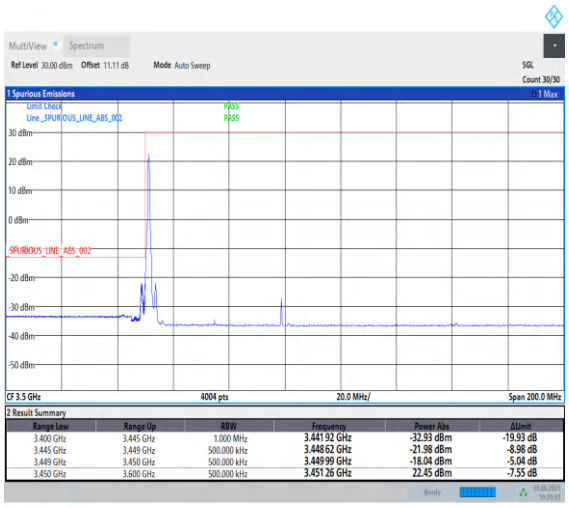

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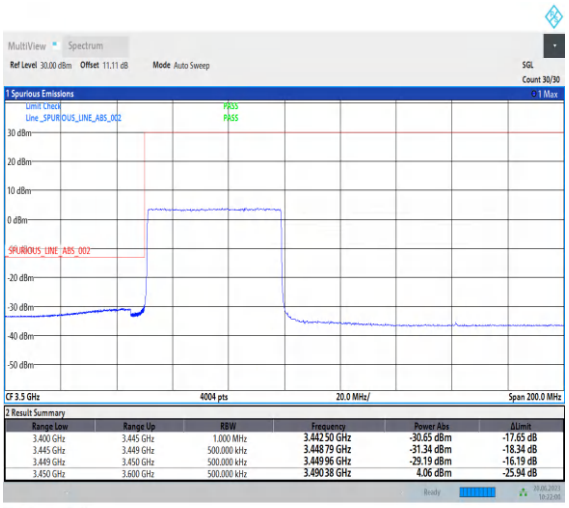

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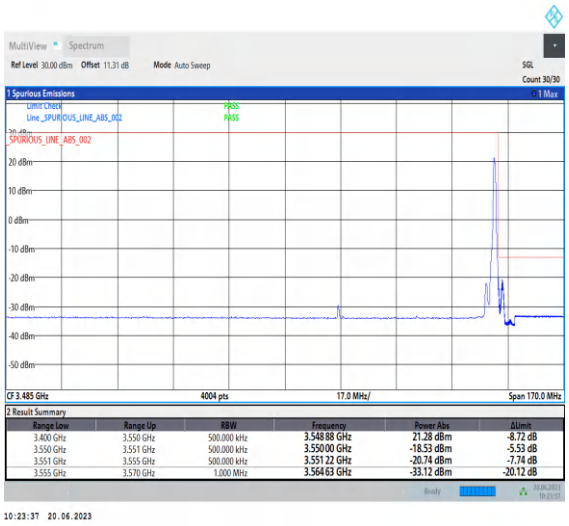

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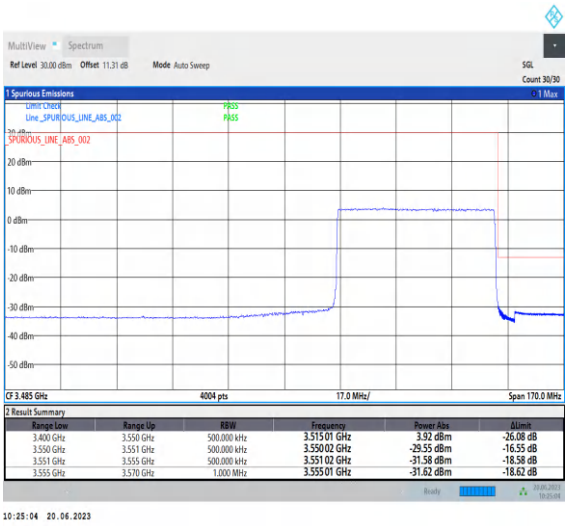

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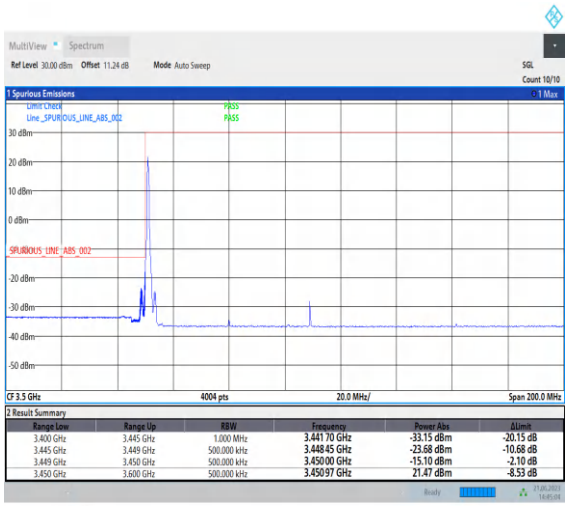

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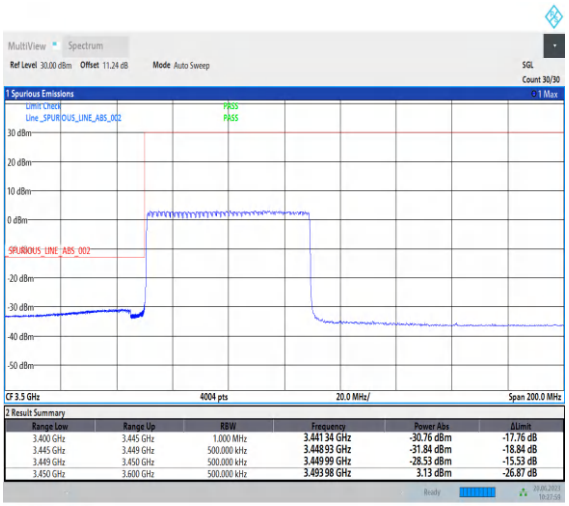

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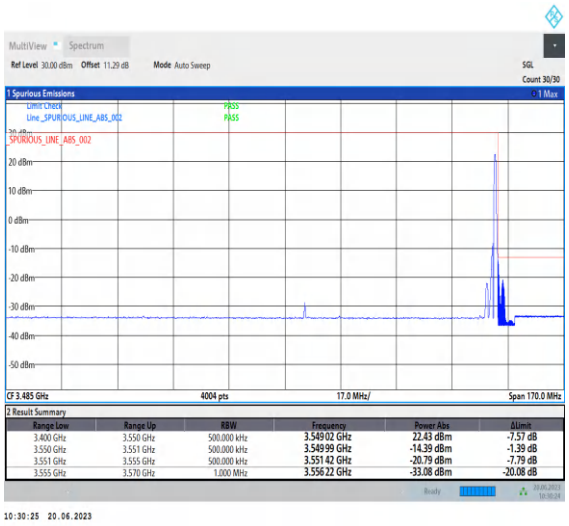

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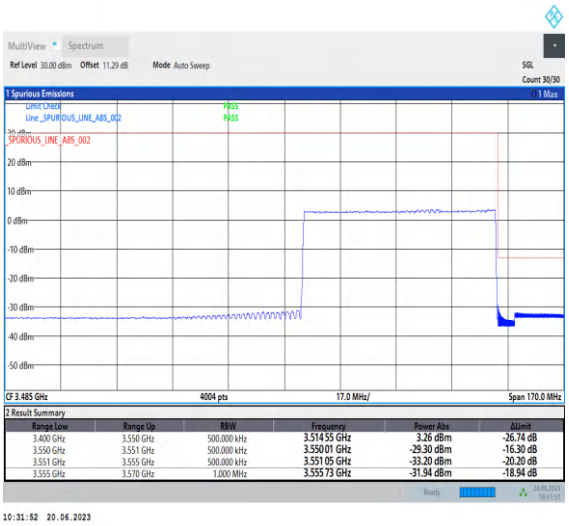

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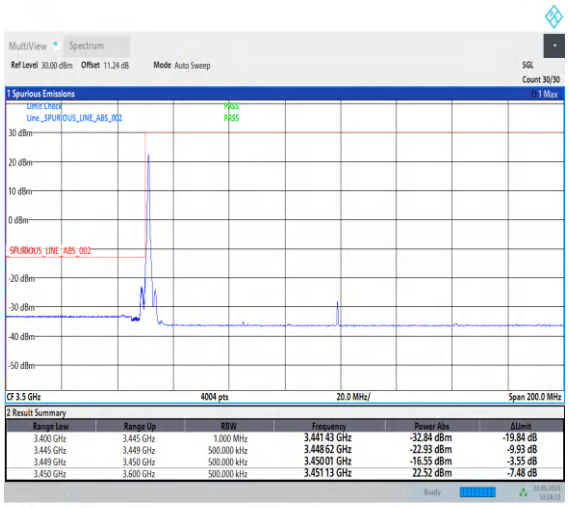

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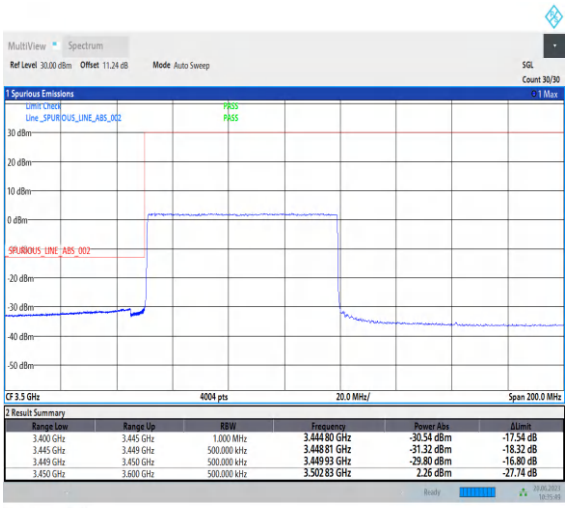

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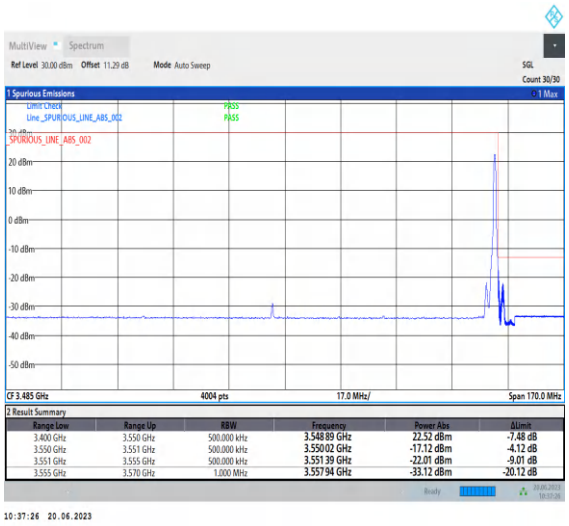

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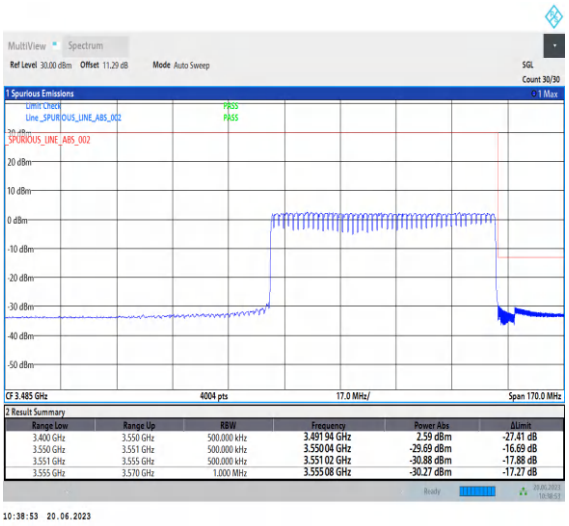

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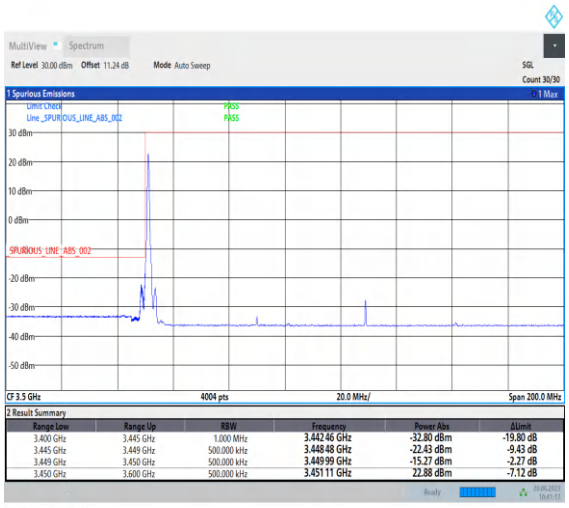

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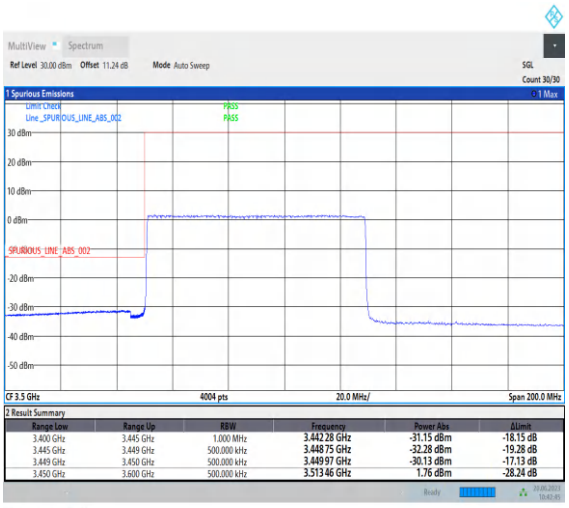

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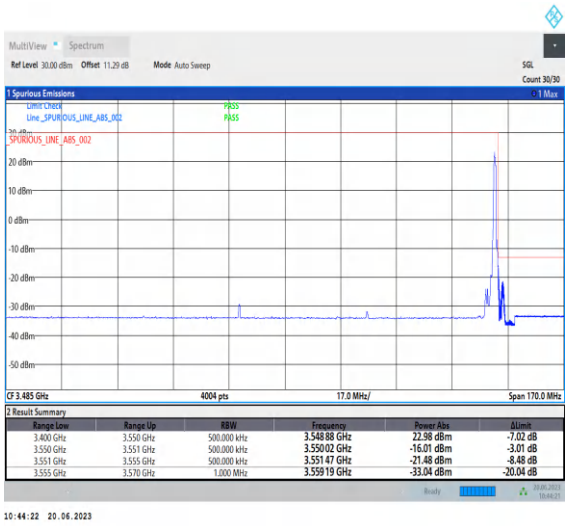

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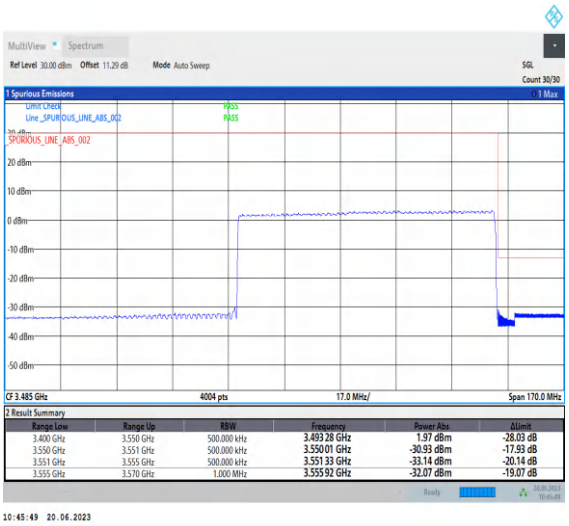

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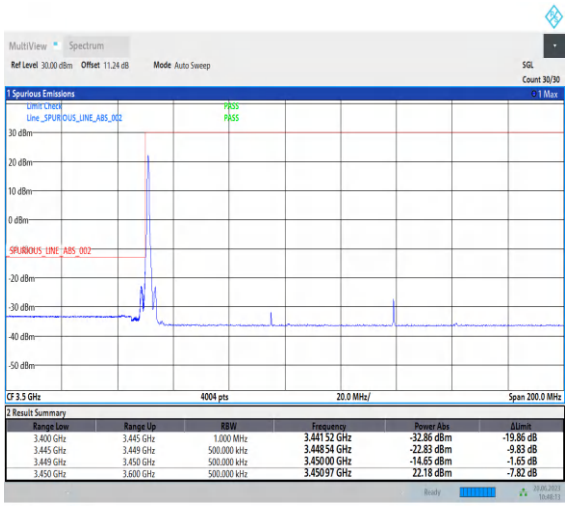

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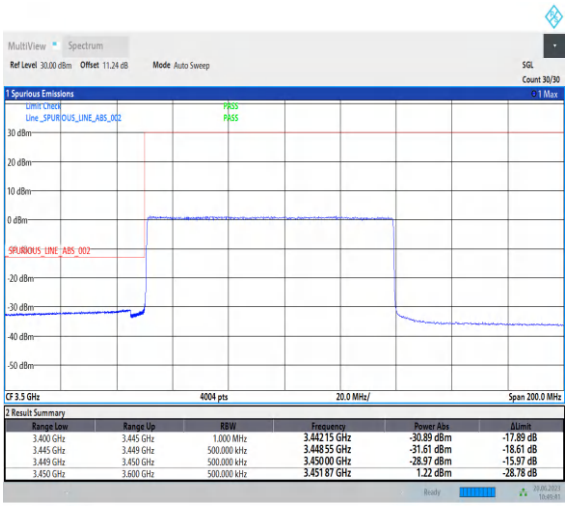

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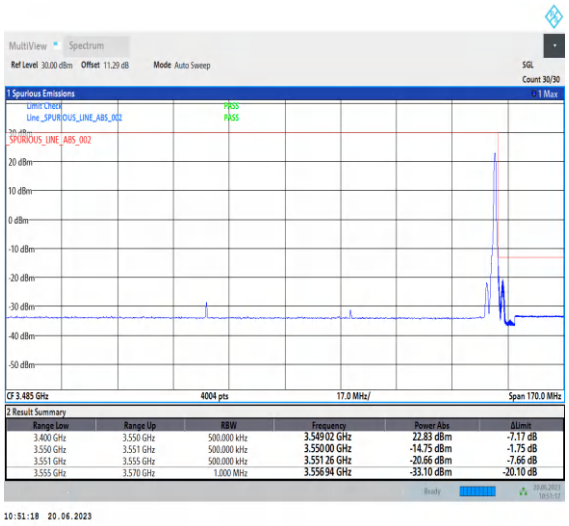

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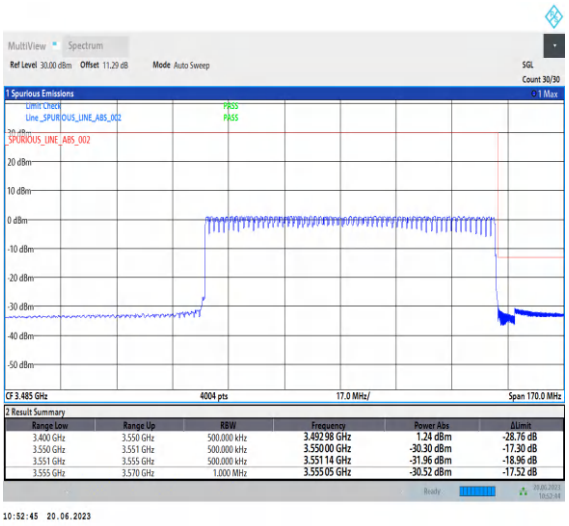

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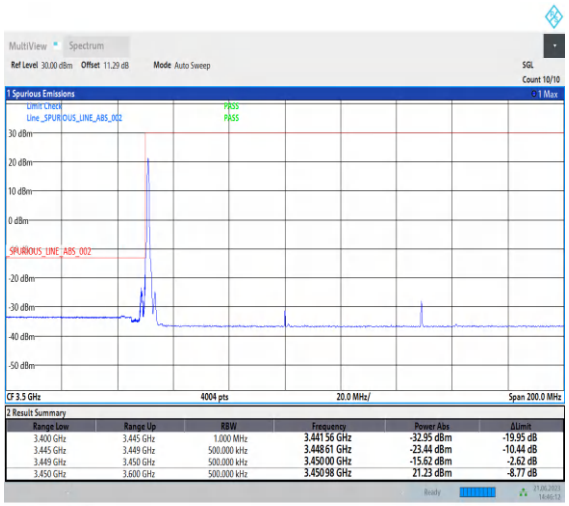

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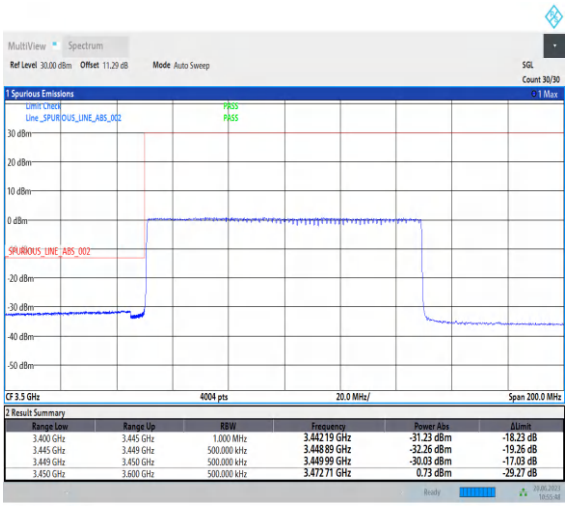

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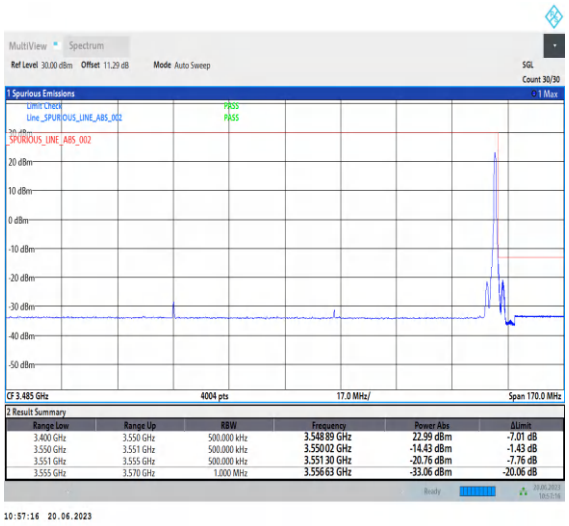

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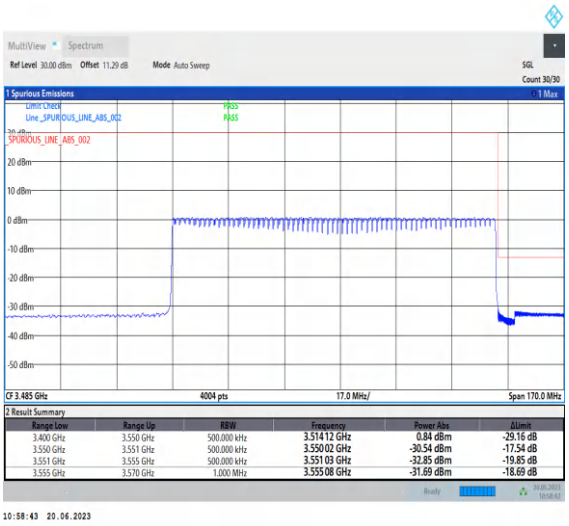

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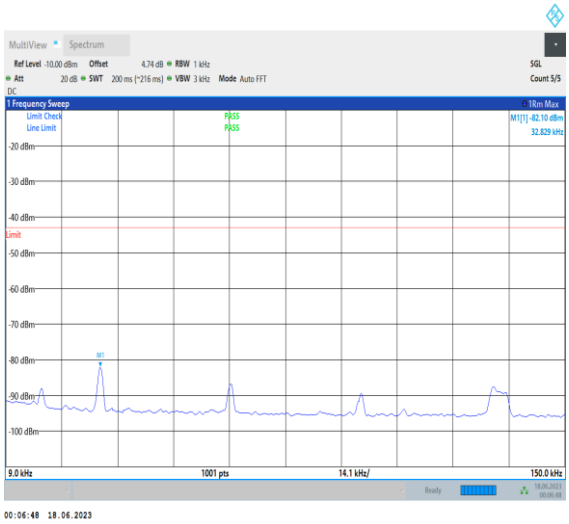	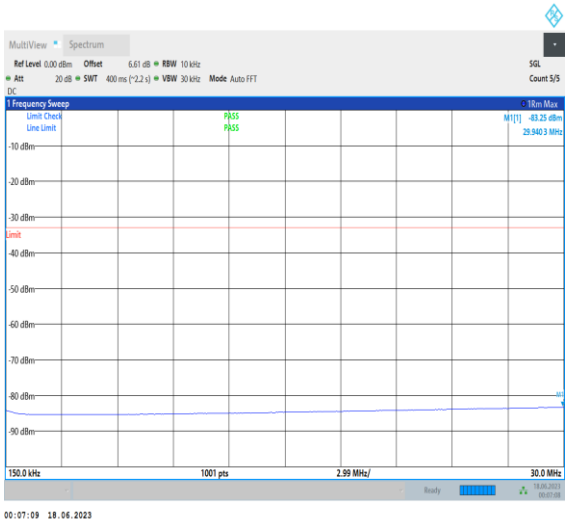
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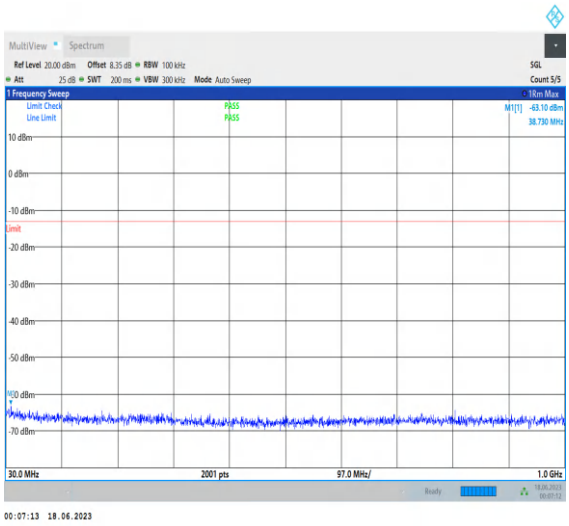	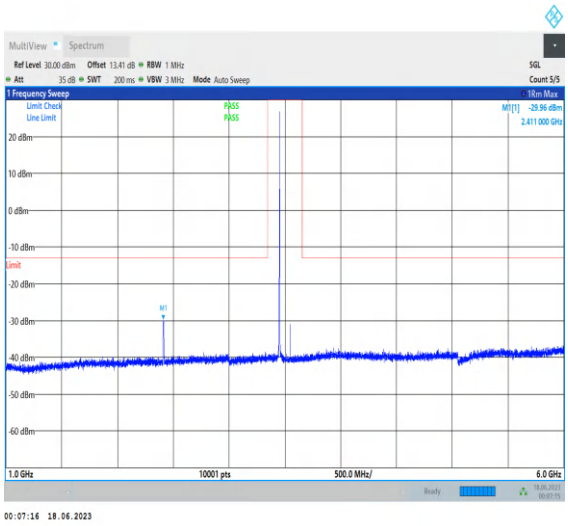
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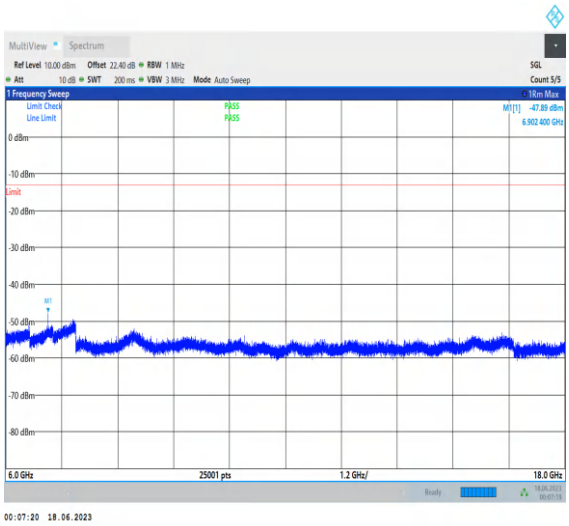

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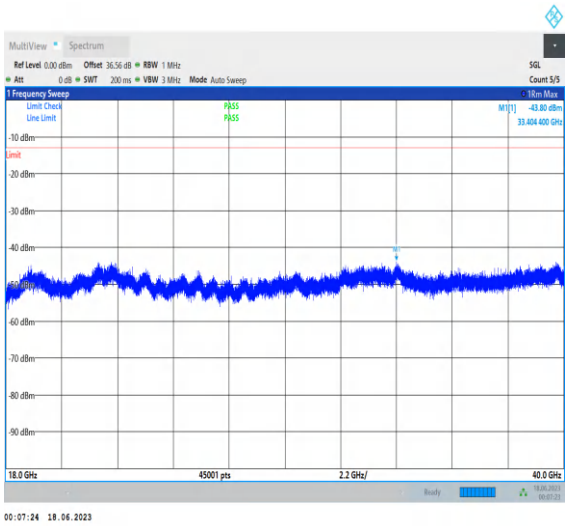

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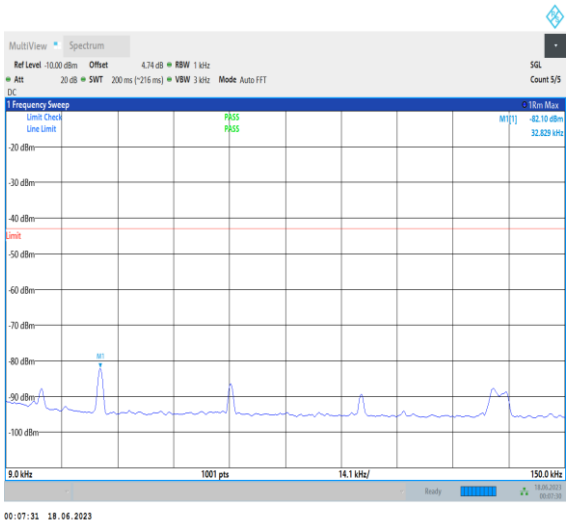

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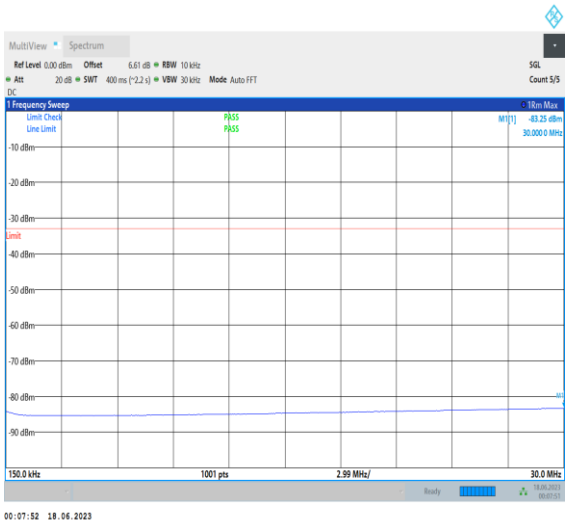

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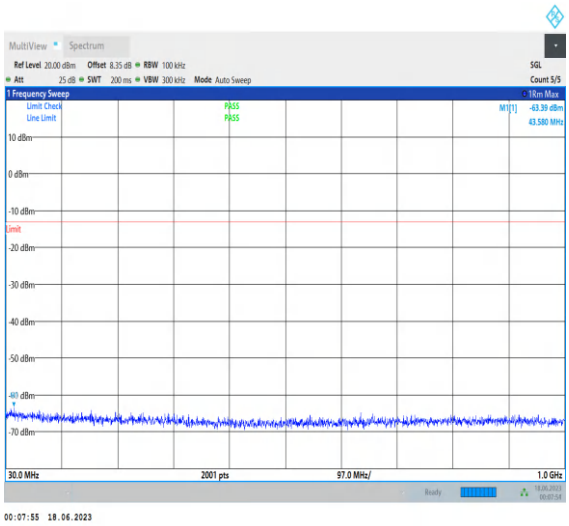

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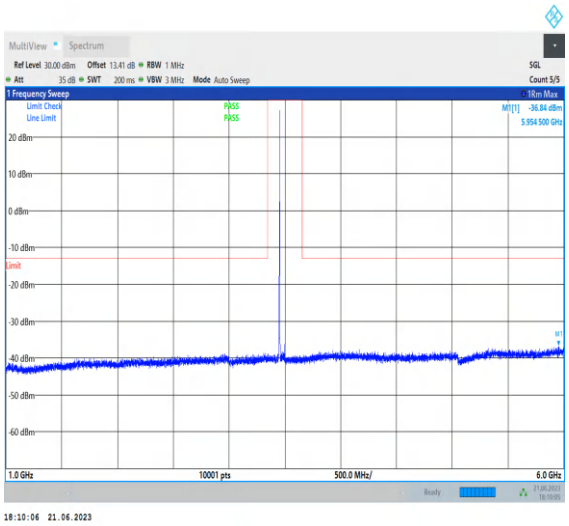

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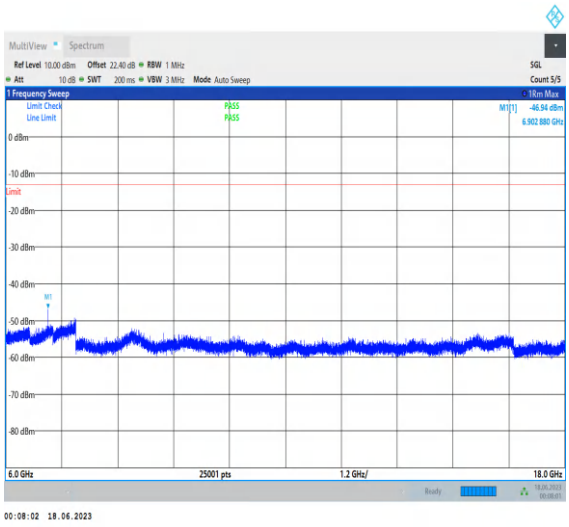

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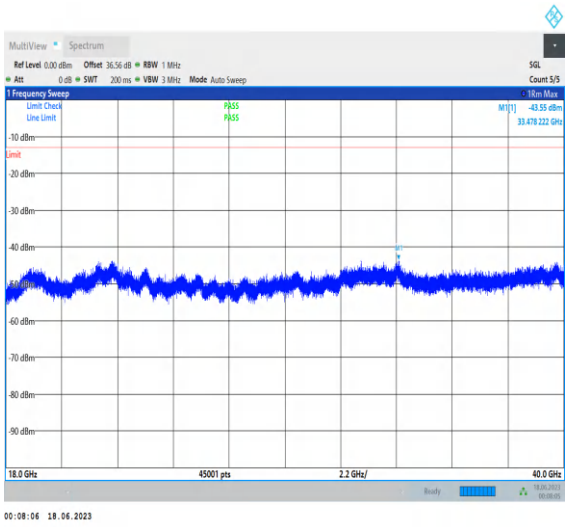

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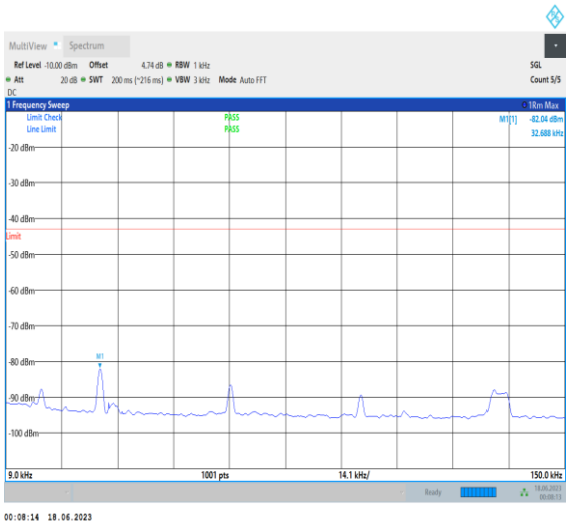

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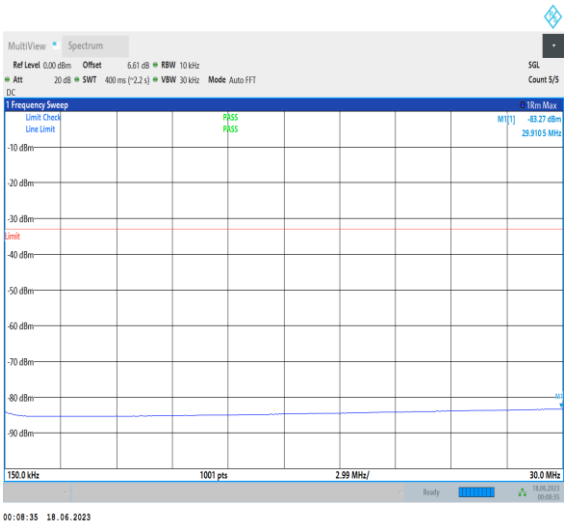

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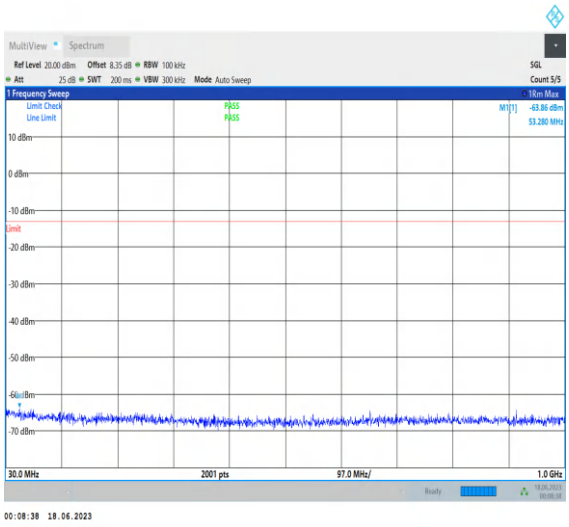

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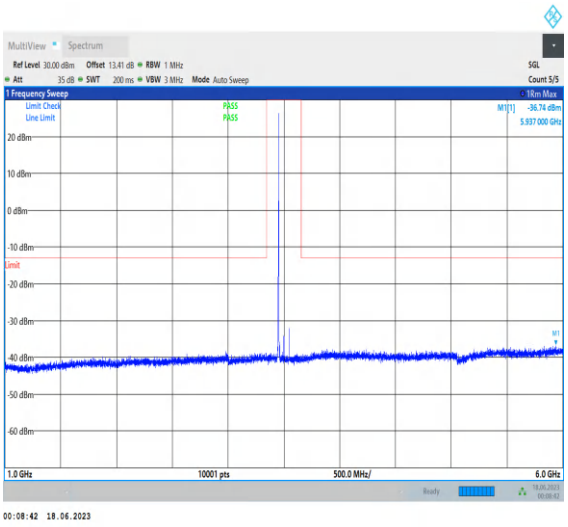

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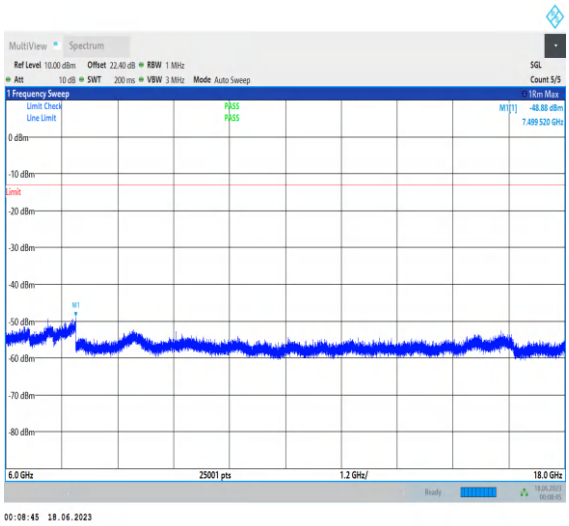	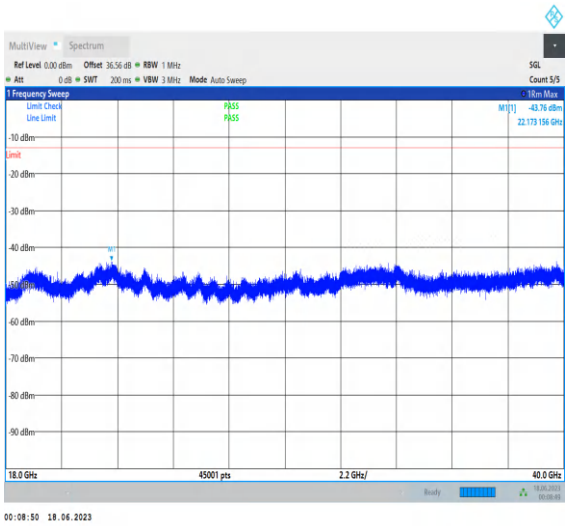
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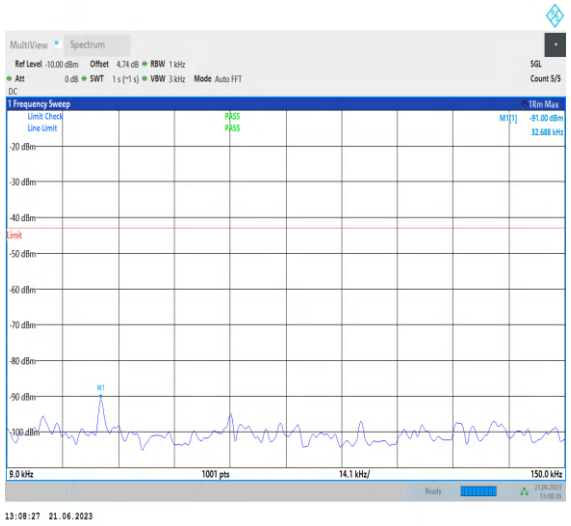
Conducted Spurious Emission for MIMO

Test Graphs



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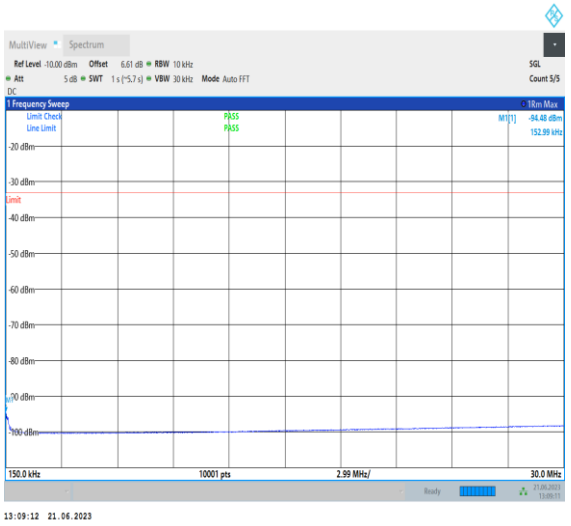

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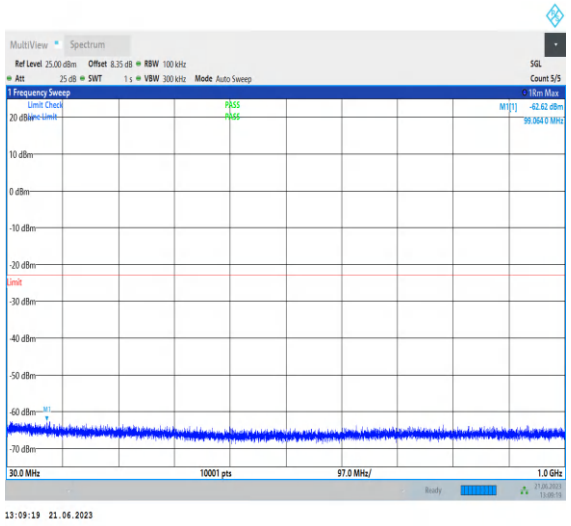

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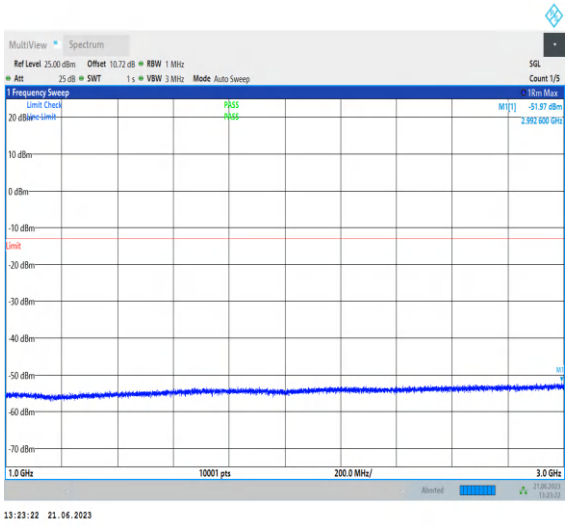

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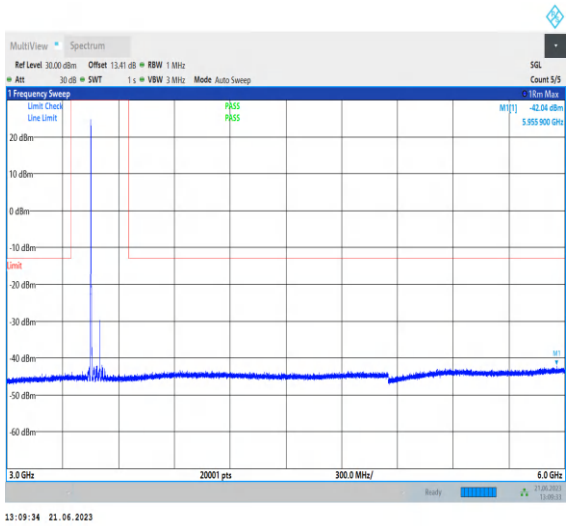

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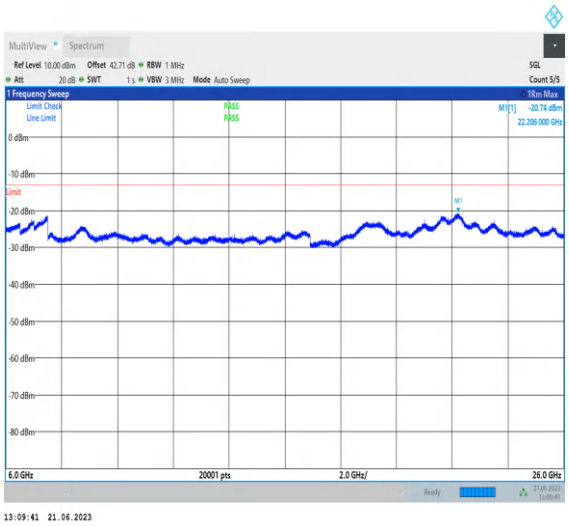

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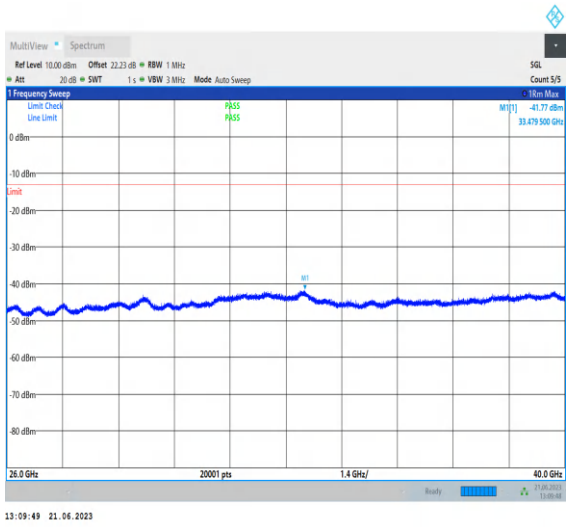

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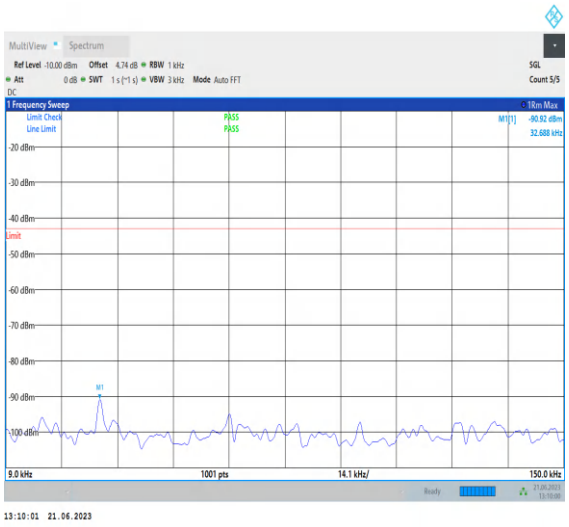

1-N78-3450-3550-PC2-30-100-M-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant2-0.03--90.92--43-PASS

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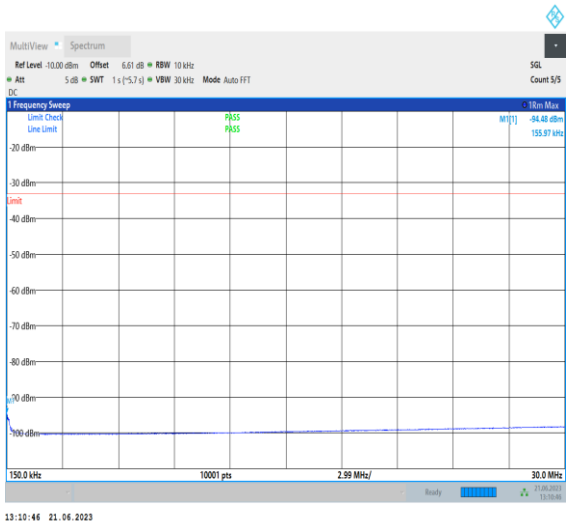
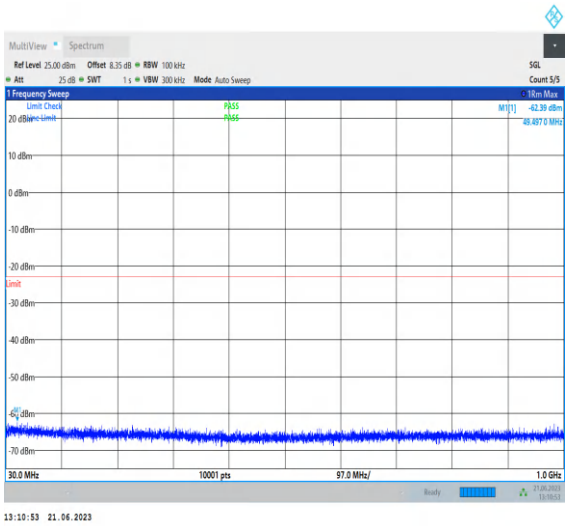


1-N78-3450-3550-PC2-30-100-M-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant2-0.16--94.48--33-PASS



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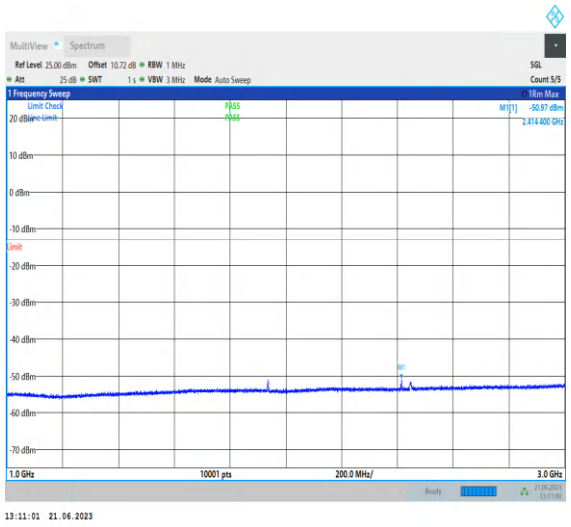

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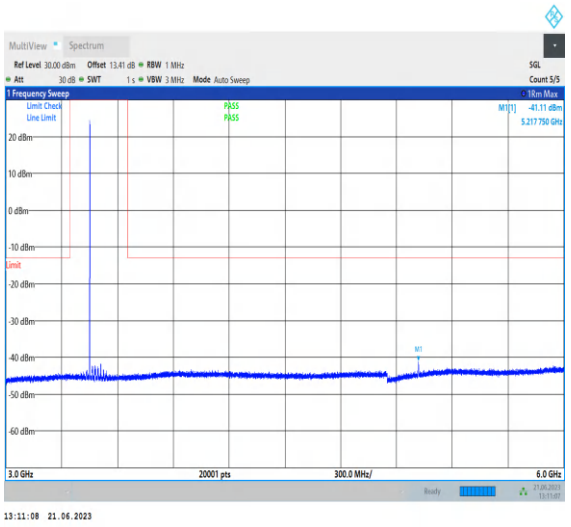

1-N78-3450-3550-PC2-30-100-M-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-3000-6000-Ant2-5217.75--41.11--13-PASS

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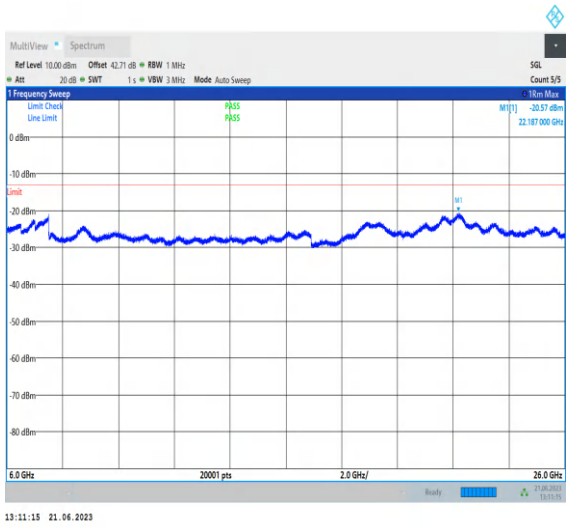
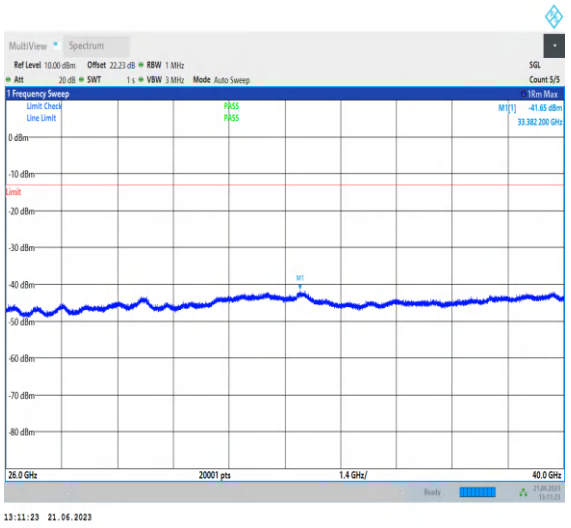
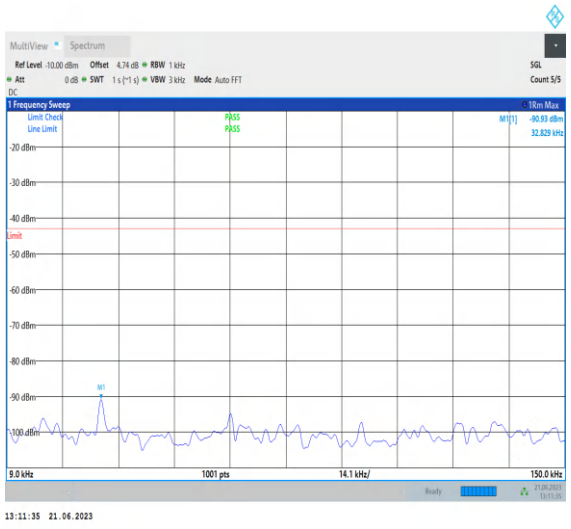


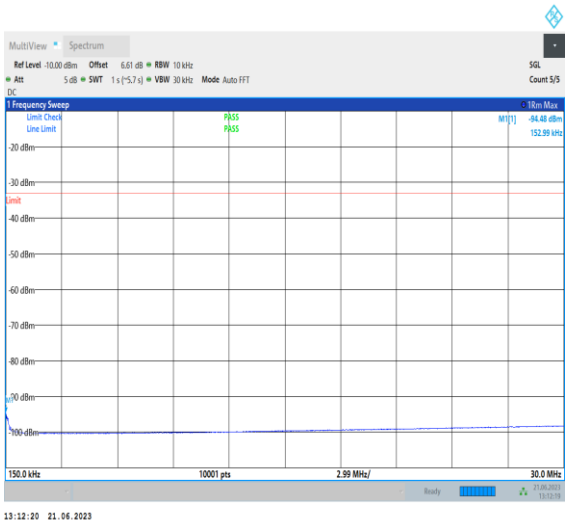
1-N78-3450-3550-PC2-30-100-M-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-6000-26000-Ant2-22187.00--20.57--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-26000-40000-Ant2-33382.20--41.65--13-PASS



1-N78-3450-3550-PC2-30-100-H-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant2-0.03--90.93--43-PASS



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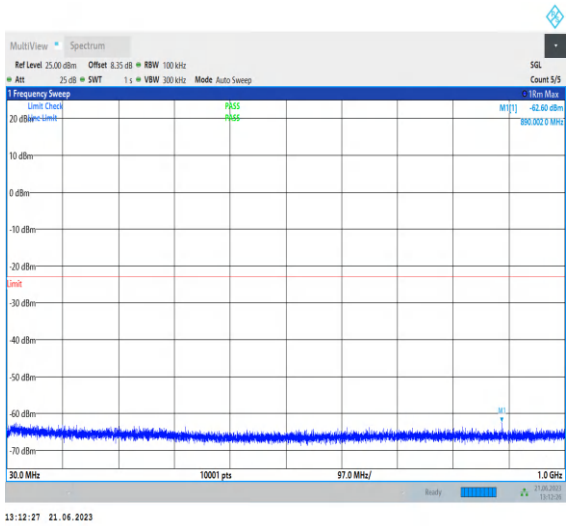
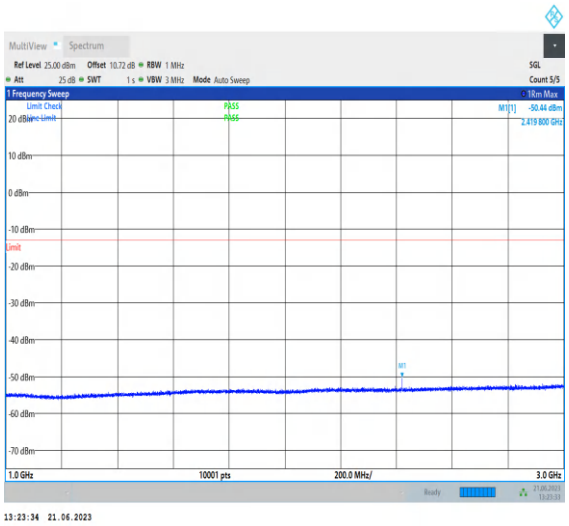


1-N78-3450-3550-PC2-30-100-H-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant2-890.00--62.60--23-PASS



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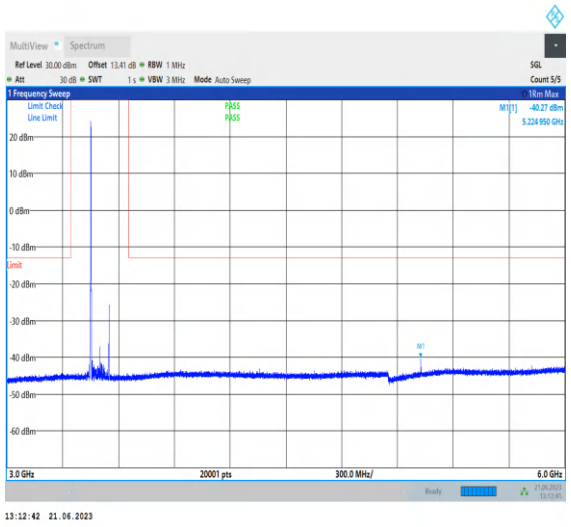
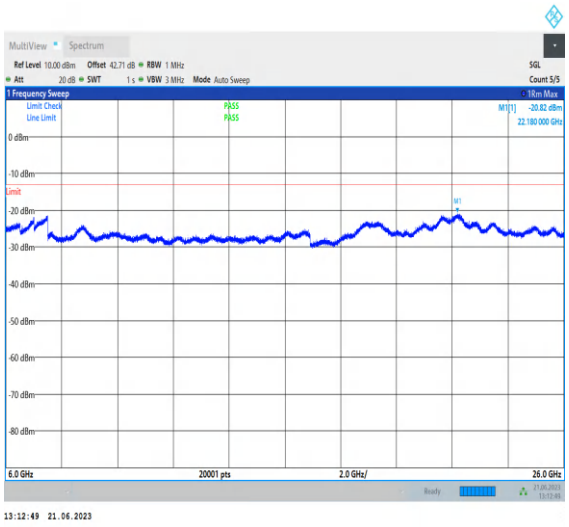


1-N78-3450-3550-PC2-30-100-H-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-3000-6000-Ant2-5224.95--40.27--13-PASS



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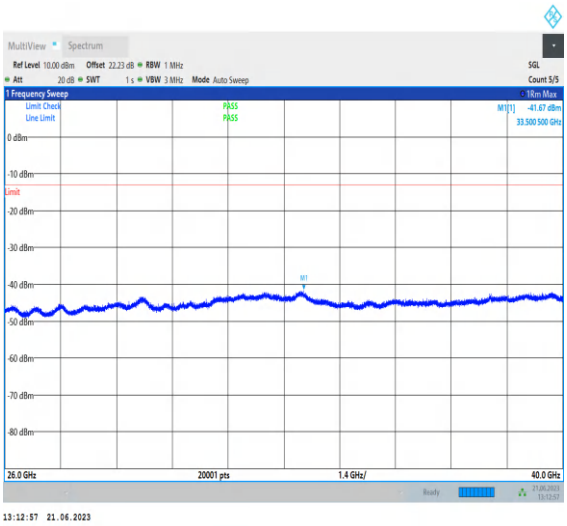	
1-N78-3450-3550-PC2-30-100-H-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-26000-40000-Ant2-33500.50--41.67--13-PASS	

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Field Strength of Spurious Radiation(Worse)

Test Band = SA Band78_ TM1_100MHz
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7783.4	40.43	-42.64	36.71	-60.76	-13.00	47.76	284	1	Horizontal
2	8954.675	38.19	-40.89	36.32	-61.64	-13.00	48.64	175	0	Horizontal
3	10082.825	35.94	-38.82	38.24	-59.90	-13.00	46.90	146	256	Horizontal
4	11223.625	34.00	-36.75	38.72	-59.29	-13.00	46.29	199	346	Horizontal
5	12275.875	33.08	-36.75	38.88	-60.05	-13.00	47.05	152	30	Horizontal
6	13636.9	32.71	-36.02	40.25	-58.33	-13.00	45.33	188	136	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	8542.4	39.22	-41.41	36.53	-60.93	-13.00	47.93	284	256	Vertical
2	9593.5	36.40	-39.25	37.43	-60.68	-13.00	47.68	174	14	Vertical
3	11204.075	33.53	-36.63	38.72	-59.64	-13.00	46.64	158	195	Vertical
4	12210.325	33.79	-37.06	38.86	-59.67	-13.00	46.67	166	59	Vertical
5	13965.225	31.77	-35.05	40.84	-57.71	-13.00	44.71	192	150	Vertical
6	15358.45	31.91	-34.00	40.55	-56.80	-13.00	43.80	155	360	Vertical

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Test Band = SA Band78 ULMIMO_ TM1_100MHz
Test Channel = Mid 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8087.575	38.87	-41.44	36.76	-61.07	-13.00	48.07	175	0	Horizontal
2	9267.475	37.20	-40.03	36.81	-61.28	-13.00	48.28	155	286	Horizontal
3	10627.35	34.46	-37.87	38.51	-60.15	-13.00	47.15	185	347	Horizontal
4	11526.075	33.09	-36.63	38.75	-60.05	-13.00	47.05	169	76	Horizontal
5	12858.35	32.57	-36.77	39.06	-60.40	-13.00	47.40	199	256	Horizontal
6	14501.125	31.83	-34.24	41.10	-56.57	-13.00	43.57	153	47	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	8416.475	40.00	-41.44	36.59	-60.11	-13.00	47.11	185	150	Vertical
2	9832.125	36.04	-39.10	37.88	-60.44	-13.00	47.44	142	134	Vertical
3	10703.825	34.28	-37.53	38.55	-59.96	-13.00	46.96	136	195	Vertical
4	11539.3	32.94	-36.69	38.75	-60.26	-13.00	47.26	256	226	Vertical
5	12817.525	32.90	-36.66	39.05	-59.98	-13.00	46.98	185	345	Vertical
6	13965.8	31.76	-35.05	40.84	-57.71	-13.00	44.71	122	60	Vertical

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Test Band = NSA 2A-N78A_ TM1
Test Channel = Mid 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7650.575	40.21	-42.85	36.66	-61.24	-13.00	48.24	125	0	Horizontal
2	8681.55	38.93	-41.26	36.46	-61.13	-13.00	48.13	147	151	Horizontal
3	9609.025	36.33	-39.23	37.46	-60.70	-13.00	47.70	169	210	Horizontal
4	11026.4	33.53	-37.63	38.70	-60.66	-13.00	47.66	182	46	Horizontal
5	12350.625	33.28	-36.82	38.91	-59.89	-13.00	46.89	136	30	Horizontal
6	15356.15	32.28	-34.00	40.55	-56.43	-13.00	43.43	266	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	8544.125	38.87	-41.40	36.53	-61.26	-13.00	48.26	154	317	Vertical
2	9295.075	37.48	-40.06	36.86	-60.98	-13.00	47.98	265	226	Vertical
3	9594.075	36.52	-39.25	37.43	-60.56	-13.00	47.56	132	90	Vertical
4	10346.175	35.19	-38.85	38.37	-60.55	-13.00	47.55	155	212	Vertical
5	11454.775	33.31	-36.96	38.75	-60.17	-13.00	47.17	186	360	Vertical
6	13114.8	32.76	-36.60	39.31	-59.80	-13.00	46.80	192	14	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA 5A-N78A_ TM1
Test Channel = Mid 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8320.45	40.02	-41.77	36.64	-60.37	-13.00	47.37	125	346	Horizontal
2	9598.1	36.63	-39.21	37.44	-60.41	-13.00	47.41	146	118	Horizontal
3	10696.925	34.11	-37.51	38.55	-60.11	-13.00	47.11	139	357	Horizontal
4	11704.9	33.21	-36.14	38.77	-59.42	-13.00	46.42	187	316	Horizontal
5	13339.625	33.35	-36.64	39.71	-58.84	-13.00	45.84	142	270	Horizontal
6	14822.55	32.33	-35.03	41.23	-56.73	-13.00	43.73	190	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	8390.025	39.60	-41.42	36.60	-60.47	-13.00	47.47	245	329	Vertical
2	9419.85	37.08	-39.93	37.10	-61.01	-13.00	48.01	172	269	Vertical
3	10616.425	34.97	-37.92	38.51	-59.71	-13.00	46.71	136	179	Vertical
4	11817.6	32.42	-37.23	38.78	-61.28	-13.00	48.28	214	359	Vertical
5	13392.525	32.56	-36.14	39.81	-59.03	-13.00	46.03	182	74	Vertical
6	14764.475	32.44	-34.91	41.21	-56.53	-13.00	43.53	170	209	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA 7A-N78A_ TM1
Test Channel = Mid 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8430.275	39.51	-41.50	36.58	-60.67	-13.00	47.67	211	17	Horizontal
2	9259.425	37.60	-40.02	36.79	-60.89	-13.00	47.89	142	3	Horizontal
3	10082.825	35.62	-38.82	38.24	-60.22	-13.00	47.22	156	120	Horizontal
4	10703.25	34.26	-37.52	38.55	-59.97	-13.00	46.97	265	0	Horizontal
5	11910.75	33.29	-37.33	38.79	-60.51	-13.00	47.51	199	286	Horizontal
6	14513.775	32.07	-34.38	41.11	-56.47	-13.00	43.47	158	17	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	8262.95	39.57	-41.97	36.67	-61.00	-13.00	48.00	124	287	Vertical
2	8965.025	38.00	-40.88	36.32	-61.83	-13.00	48.83	158	359	Vertical
3	10343.3	35.38	-38.86	38.37	-60.37	-13.00	47.37	176	90	Vertical
4	11698.575	32.14	-36.10	38.77	-60.45	-13.00	47.45	133	358	Vertical
5	12697.925	33.28	-36.84	39.01	-59.81	-13.00	46.81	259	242	Vertical
6	14828.875	32.44	-35.04	41.23	-56.63	-13.00	43.63	182	358	Vertical

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Test Band = NSA 41A-N78A_ TM1
Test Channel = Mid 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7865.05	39.74	-42.68	36.75	-61.46	-13.00	48.46	241	299	Horizontal
2	9099.575	37.73	-40.41	36.49	-61.45	-13.00	48.45	126	285	Horizontal
3	10239.225	35.86	-39.16	38.32	-60.24	-13.00	47.24	259	269	Horizontal
4	11927.425	33.11	-37.30	38.79	-60.66	-13.00	47.66	133	346	Horizontal
5	13499.475	32.89	-36.65	40.00	-59.02	-13.00	46.02	258	89	Horizontal
6	14838.075	32.12	-35.05	41.24	-56.95	-13.00	43.95	172	74	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	8422.225	39.97	-41.47	36.59	-60.17	-13.00	47.17	126	330	Vertical
2	9335.9	37.27	-40.02	36.94	-61.07	-13.00	48.07	155	105	Vertical
3	10355.375	35.43	-38.83	38.38	-60.28	-13.00	47.28	147	43	Vertical
4	11754.35	32.72	-36.69	38.78	-60.46	-13.00	47.46	196	118	Vertical
5	12835.925	33.16	-36.71	39.05	-59.76	-13.00	46.76	253	43	Vertical
6	13975.575	31.84	-34.97	40.86	-57.54	-13.00	44.54	122	149	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	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.60	0.00	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-13.90	0.00	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-16.90	0.00	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-11.20	0.00	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-8.20	0.00	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-17.20	0.00	PASS

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-7.000000	-0.002000	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-8.100000	-0.002314	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-9.700000	-0.002771	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-14.600000	-0.004171	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-8.500000	-0.002429	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-16.200000	-0.004629	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.800000	-0.001943	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-9.000000	-0.002571	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-8.200000	-0.002343	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-15.800000	-0.004514	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-4.000000	-0.001143	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-9.800000	-0.002800	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-8.300000	-0.002371	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-6.700000	-0.001914	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	-8.400000	-0.002400	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	-5.800000	-0.001657	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-12.100000	-0.003457	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-12.300000	-0.003514	PASS

---End of Attachment---

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