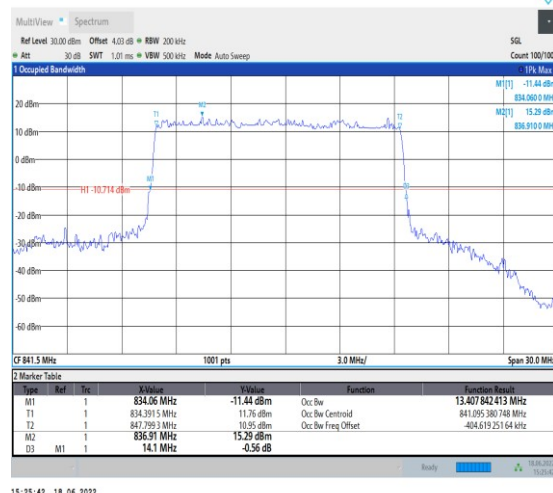
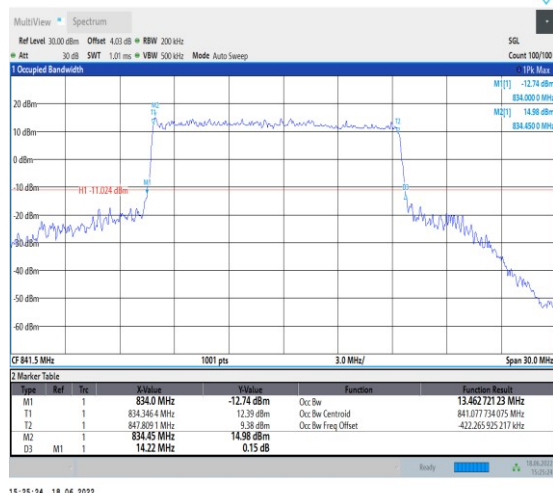


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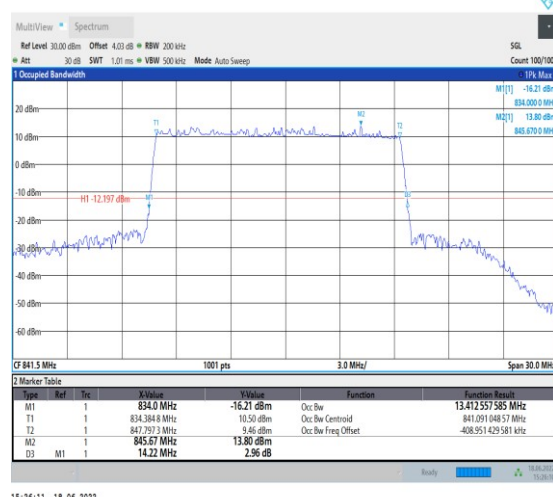
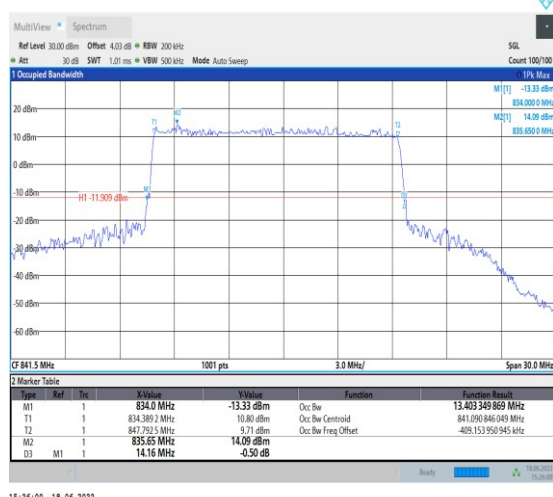
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1-N5--15-15-H-1-DFT-QPSK-Outet_Full-75@0-Ant1-13.463-14.220-≤15-PASS

1-N5--15-15-H-2-DFT-PI2BPSK-Outet_Full-75@0-Ant1-13.408-14.100-≤15-PASS



1-N5--15-15-H-3-DFT-16QAM-Outet_Full-75@0-Ant1-13.403-14.160-≤15-PASS

1-N5--15-15-H-4-DFT-64QAM-Outet_Full-75@0-Ant1-13.413-14.220-≤15-PASS



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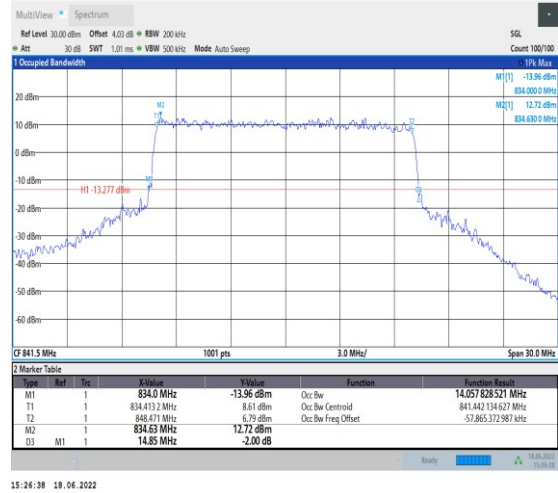
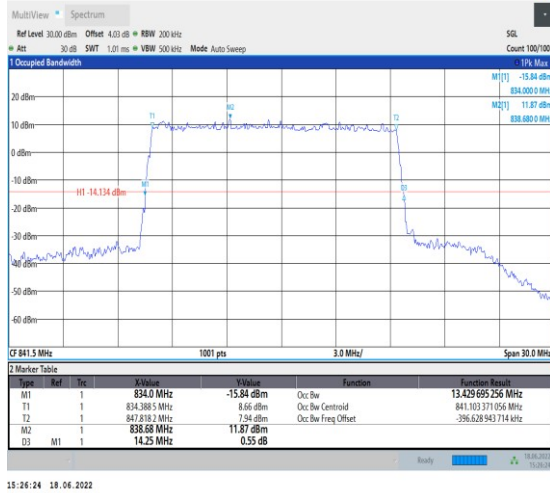
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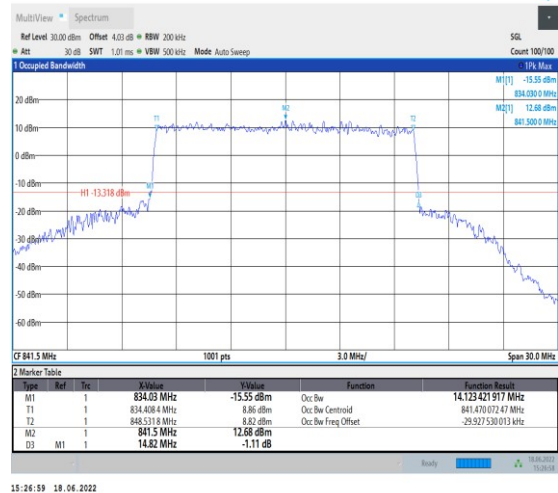
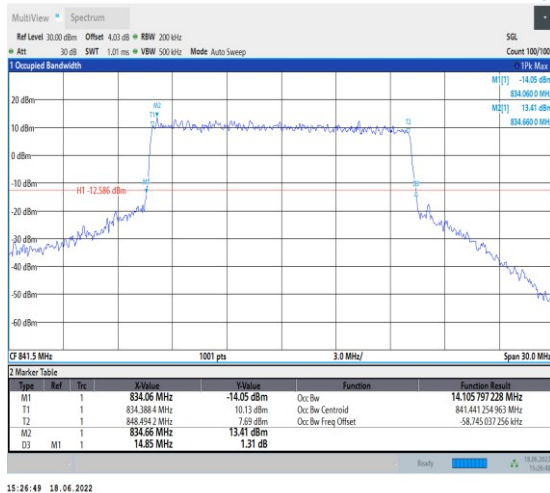
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1-N5--15-15-H-5-DFT-256QAM-Outet_Full-75@0-Ant
t1-13.43-14.250-≤15-PASS

1-N5--15-15-H-6-CP-QPSK-Outet_Full-79@0-Ant1-1
4.058-14.850-≤15-PASS



1-N5--15-15-H-7-CP-16QAM-Outet_Full-79@0-Ant1
-14.106-14.850-≤15-PASS

1-N5--15-15-H-8-CP-64QAM-Outet_Full-79@0-Ant1-1
14.123-14.820-≤15-PASS



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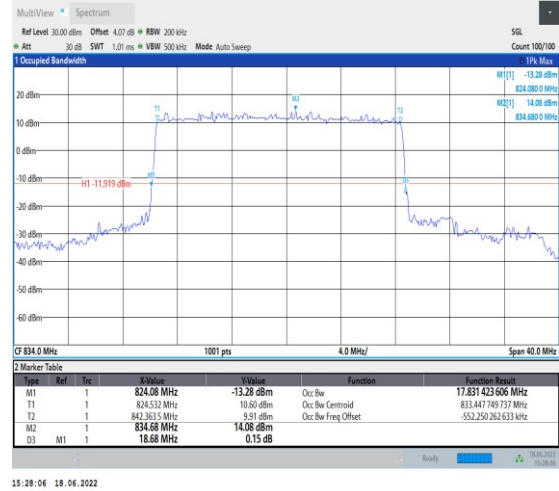
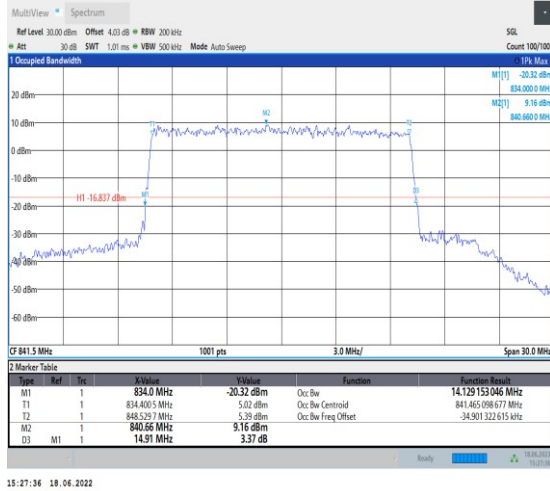
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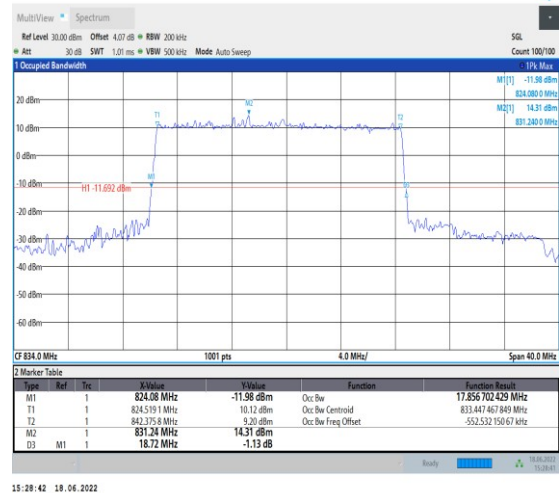
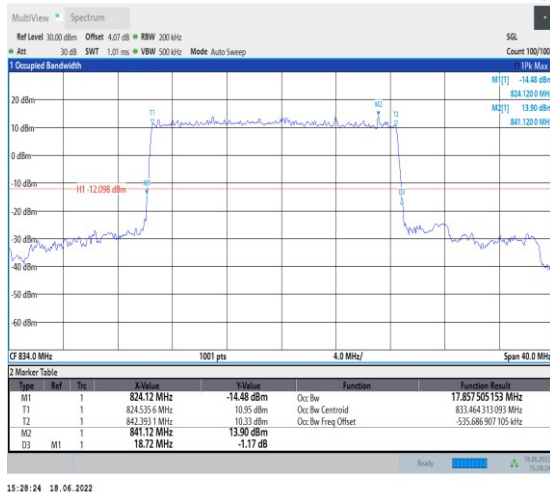
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1-N5--15-15-H-9-CP-256QAM-Outer_Full-79@0-Ant
1-14.129-14.910≤15-PASS

1-N5--15-20-L-1-DFT-QPSK-Outer_Full-100@0-Ant1
-17.831-18.680≤20-PASS



1-N5--15-20-L-2-DFT-PI2BPSK-Outer_Full-100@0-A
nt1-17.858-18.720≤20-PASS

1-N5--15-20-L-3-DFT-16QAM-Outer_Full-100@0-Ant
1-17.857-18.720≤20-PASS



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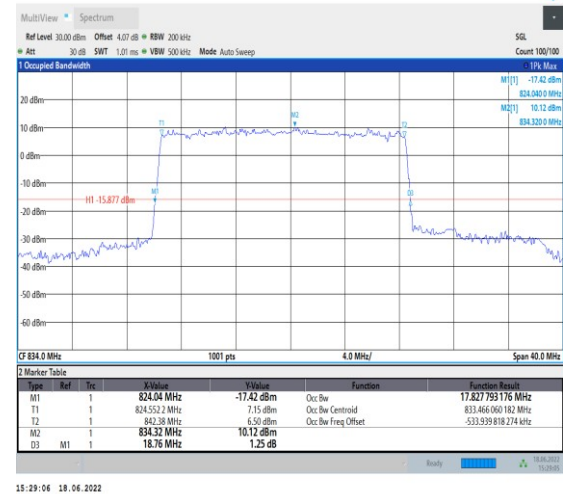
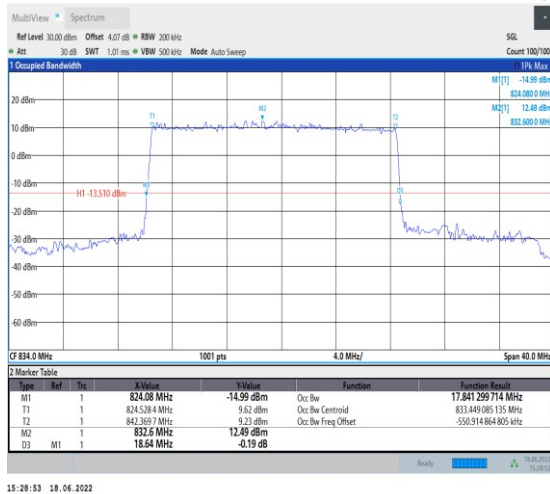
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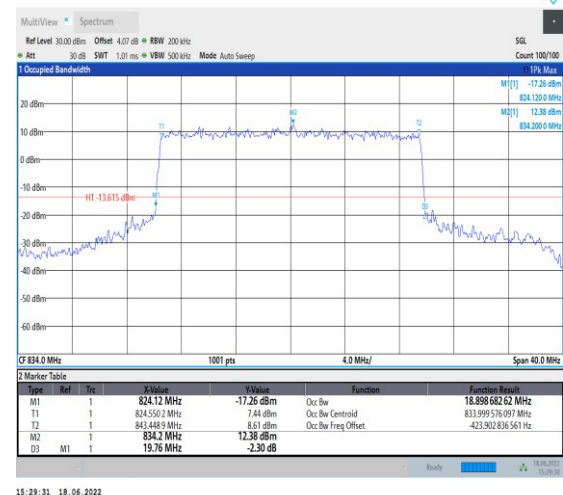
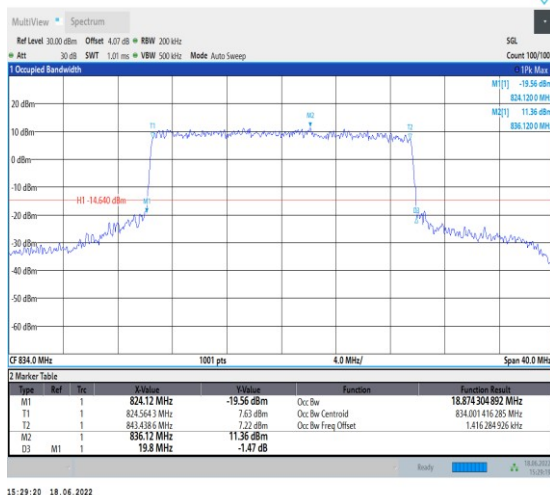
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1-N5--15-20-L-4-DFT-64QAM-Outer_Full-100@0-An
t1-17.841-18.640-<=20-PASS

1-N5--15-20-L-5-DFT-256QAM-Outer_Full-100@0-A
nt1-17.828-18.760-<=20-PASS



1-N5--15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant1-
18.874-19.800-<=20-PASS

1-N5--15-20-L-7-CP-16QAM-Outer_Full-106@0-Ant1
-18.899-19.760-<=20-PASS



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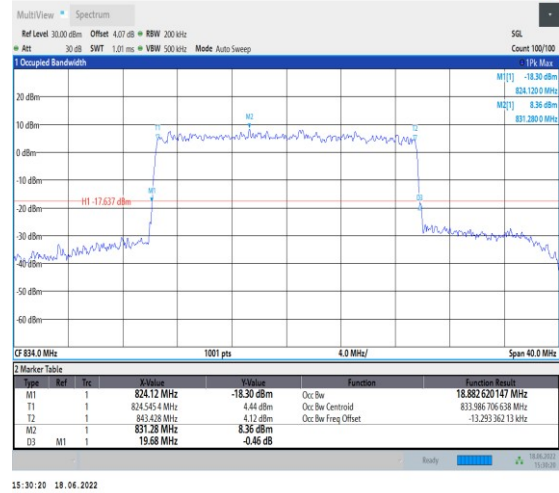
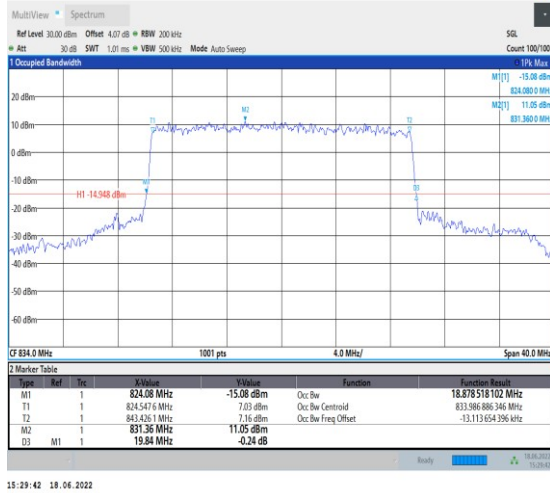
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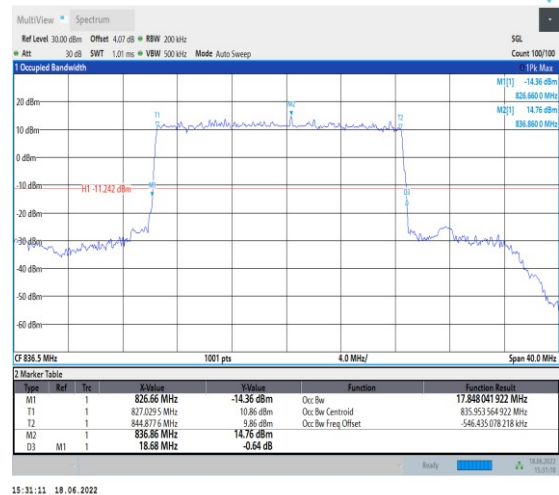
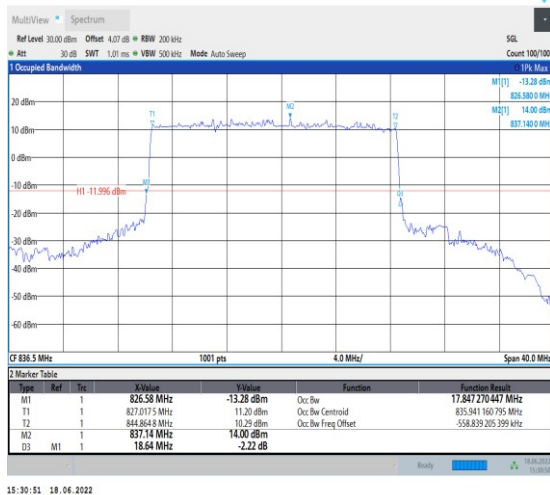
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1-N5--15-20-L-8-CP-64QAM-Outer_Full-106@0-Ant
1-18.879-19.840-≤20-PASS

1-N5--15-20-L-9-CP-256QAM-Outer_Full-106@0-Ant
1-18.883-19.680-≤20-PASS



1-N5--15-20-M-1-DFT-QPSK-Outer_Full-100@0-Ant
1-17.847-18.640-≤20-PASS

1-N5--15-20-M-2-DFT-PI2BPSK-Outer_Full-100@0-Ant
1-17.848-18.680-≤20-PASS



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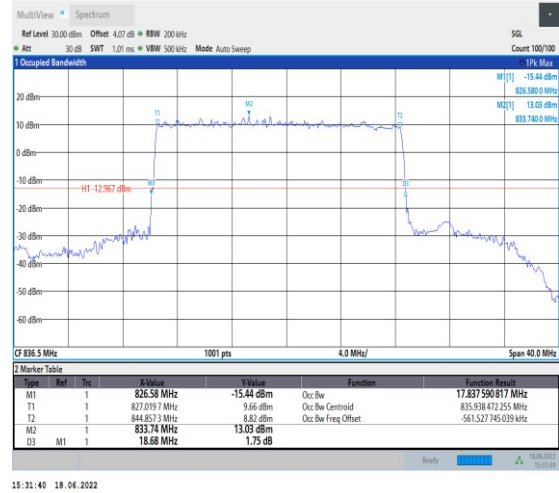
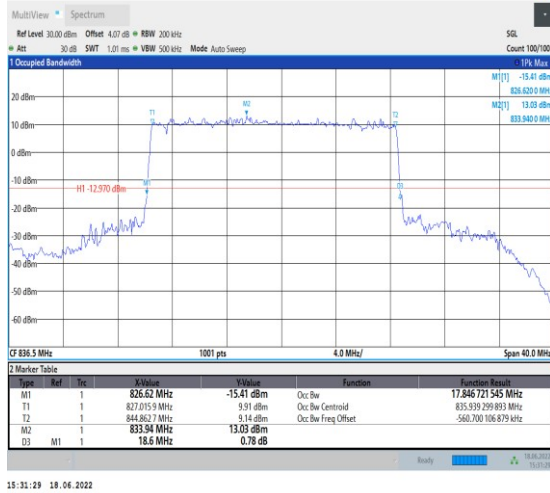
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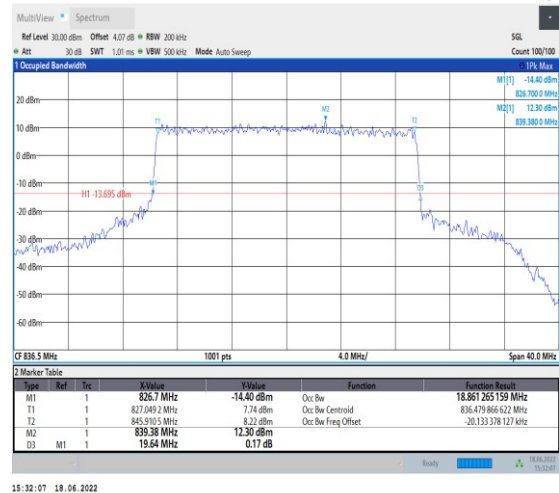
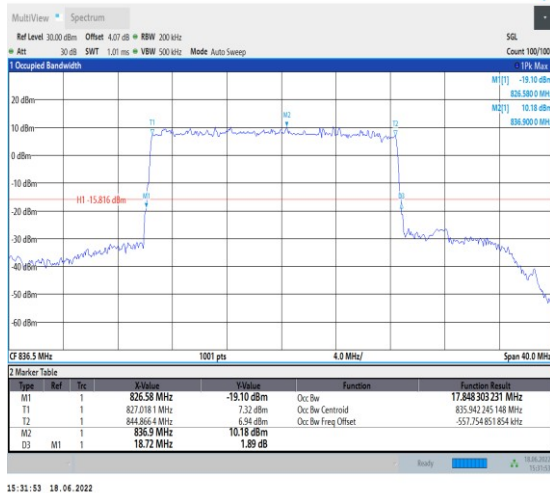
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1-N5--15-20-M-3-DFT-16QAM-Outer_Full-100@0-A
nt1-17.847-18.600-≤20-PASS

1-N5--15-20-M-4-DFT-64QAM-Outer_Full-100@0-An
t1-17.838-18.680-≤20-PASS



1-N5--15-20-M-5-DFT-256QAM-Outer_Full-100@0-
Ant1-17.848-18.720-≤20-PASS

1-N5--15-20-M-6-CP-QPSK-Outer_Full-106@0-Ant1-
18.861-19.640-≤20-PASS



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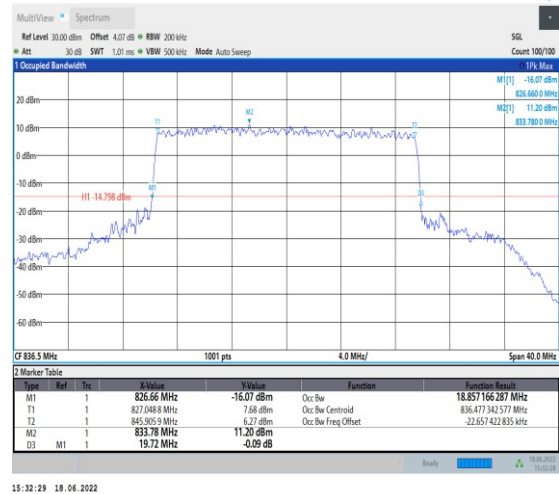
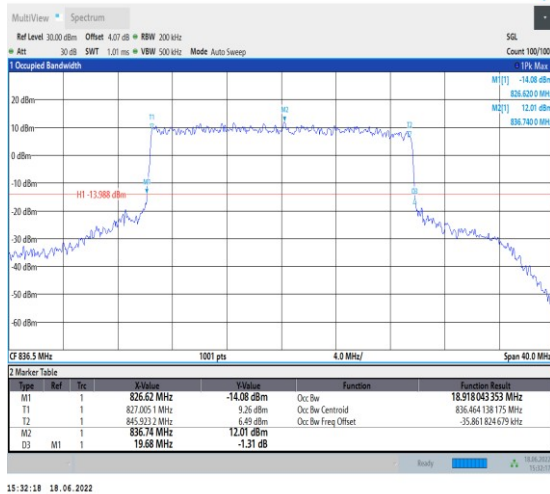
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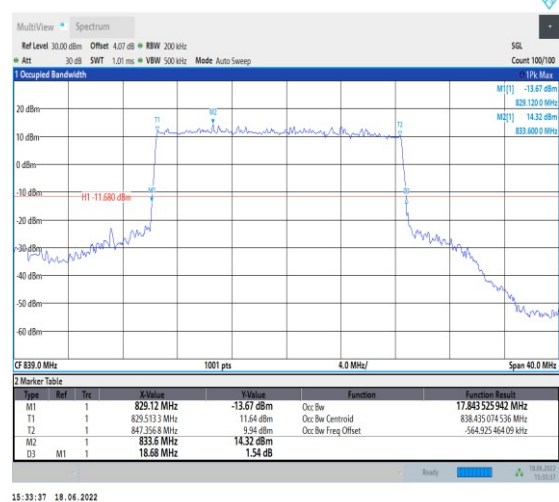
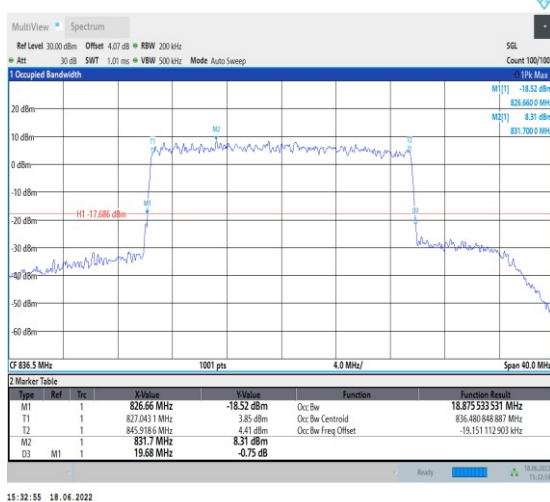
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1-N5--15-20-M-7-CP-16QAM-Outer_Full-106@0-Ant
1-18.918-19.680-≤20-PASS

1-N5--15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant
1-18.857-19.720-≤20-PASS



1-N5--15-20-M-9-CP-256QAM-Outer_Full-106@0-A
nt1-18.876-19.680-≤20-PASS

1-N5--15-20-H-1-DFT-QPSK-Outer_Full-100@0-Ant
1-17.844-18.680-≤20-PASS



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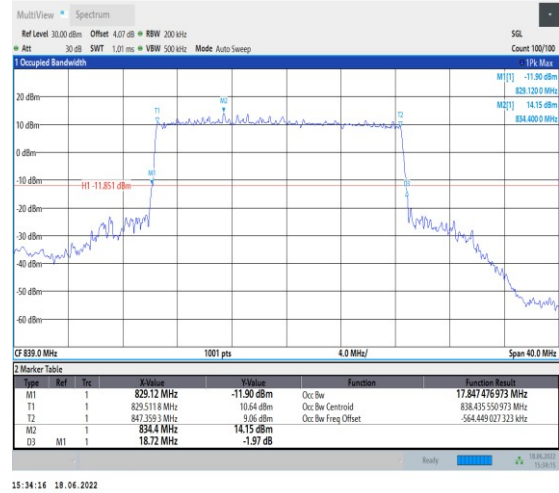
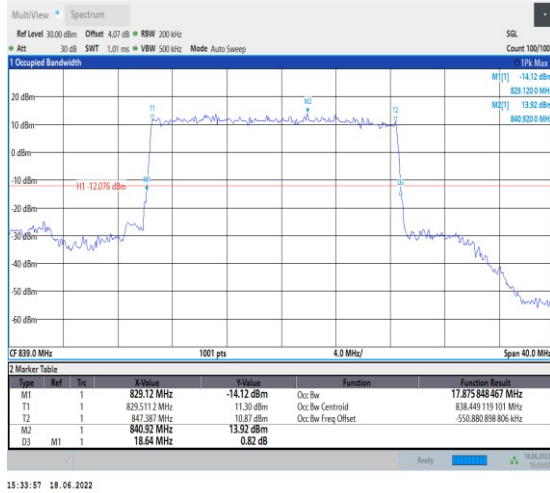
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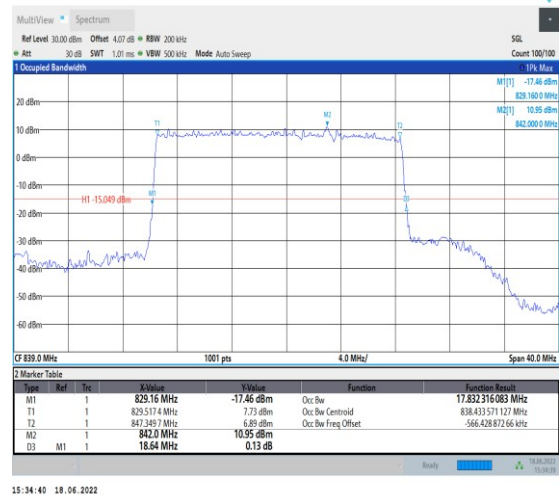
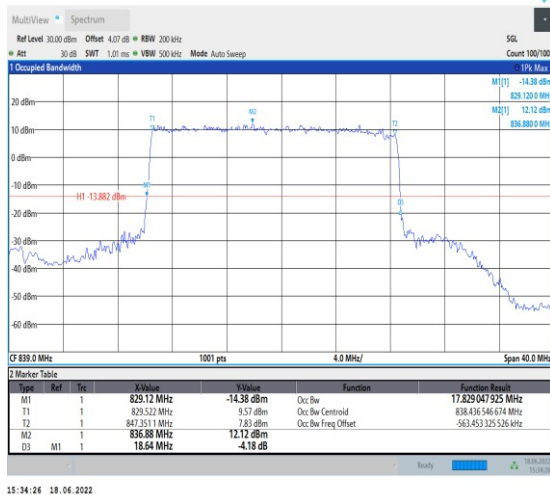
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1-N5--15-20-H-2-DFT-PI2BPSK-Outer_Full-100@0-Ant1-17.876-18.640-≤20-PASS

1-N5--15-20-H-3-DFT-16QAM-Outer_Full-100@0-An t1-17.847-18.720-≤20-PASS



1-N5--15-20-H-4-DFT-64QAM-Outer_Full-100@0-An t1-17.829-18.640-≤20-PASS

1-N5--15-20-H-5-DFT-256QAM-Outer_Full-100@0-A nt1-17.832-18.640-≤20-PASS



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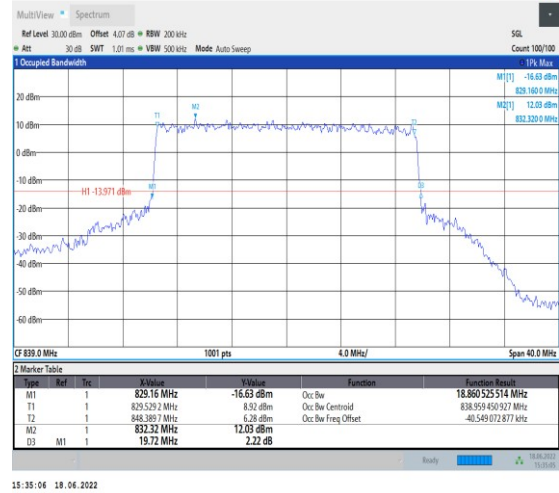
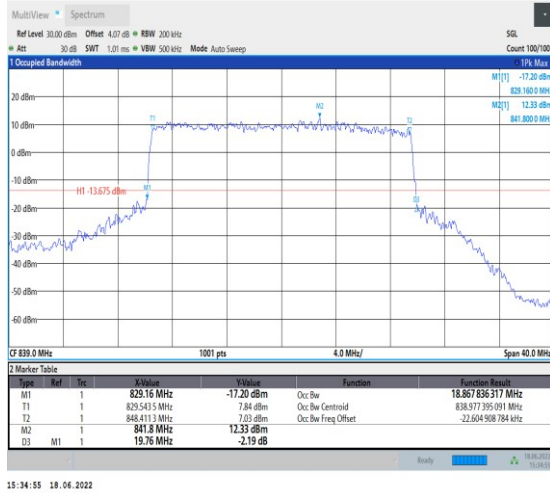
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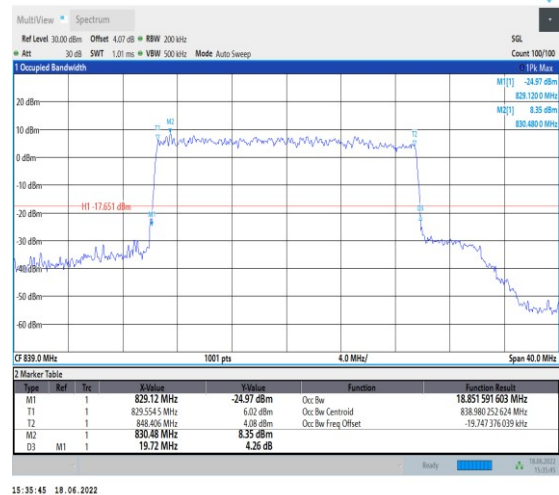
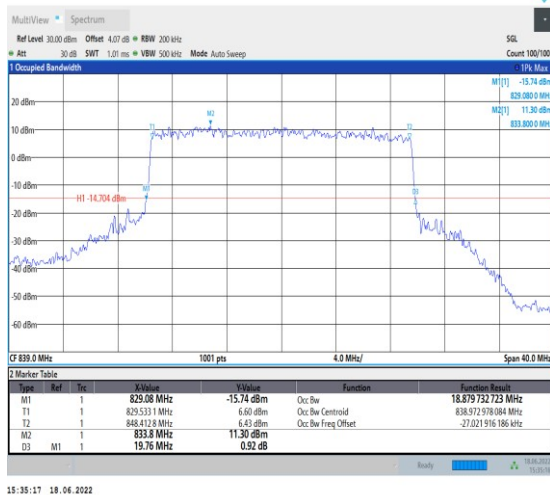
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1-N5--15-20-H-6-CP-QPSK-Outet_Full-106@0-Ant1
18.868-19.760-≤20-PASS

1-N5--15-20-H-7-CP-16QAM-Outet_Full-106@0-Ant
1-18.861-19.720-≤20-PASS



1-N5--15-20-H-8-CP-64QAM-Outet_Full-106@0-Ant
1-18.88-19.760-≤20-PASS

1-N5--15-20-H-9-CP-256QAM-Outet_Full-106@0-Ant
1-18.852-19.720-≤20-PASS



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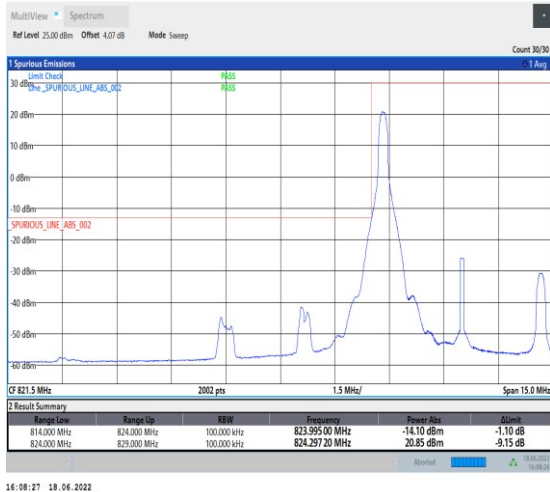
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Band Edge for SA

Test Graphs



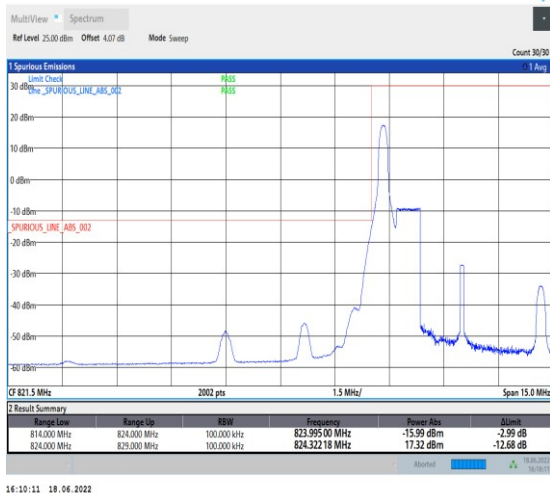
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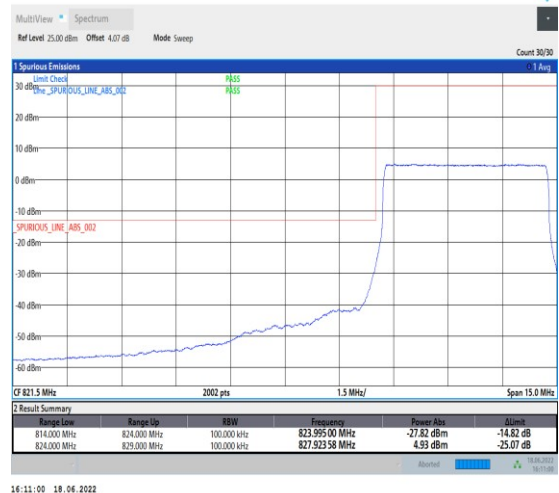
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16:10:11 18.06.2022

1-N5--15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-s
eegraph-PASS-see graph



16:11:00 18.06.2022

1-N5--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-seegraph-PASS-see graph



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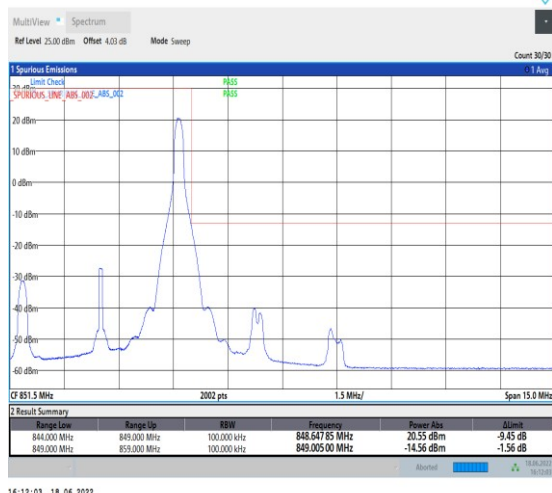
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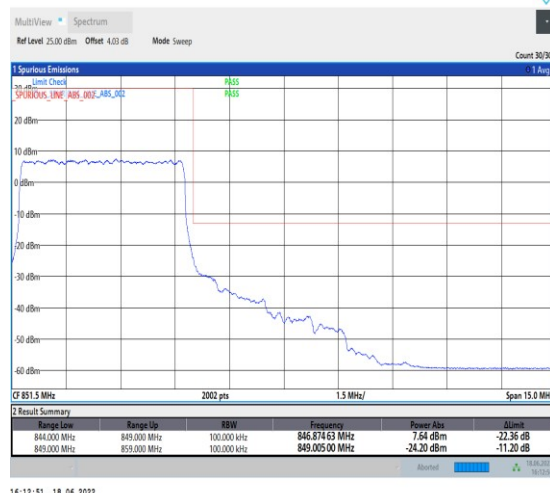
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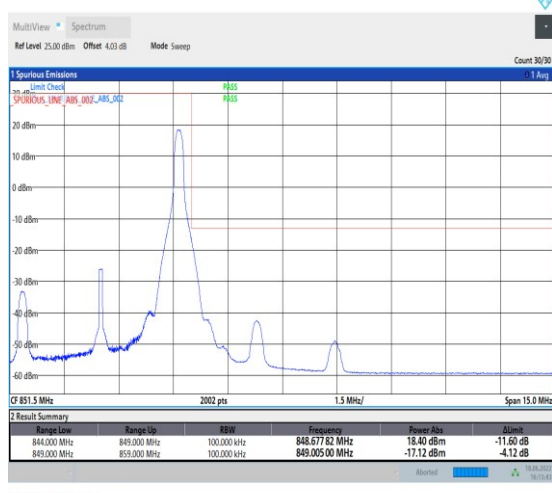
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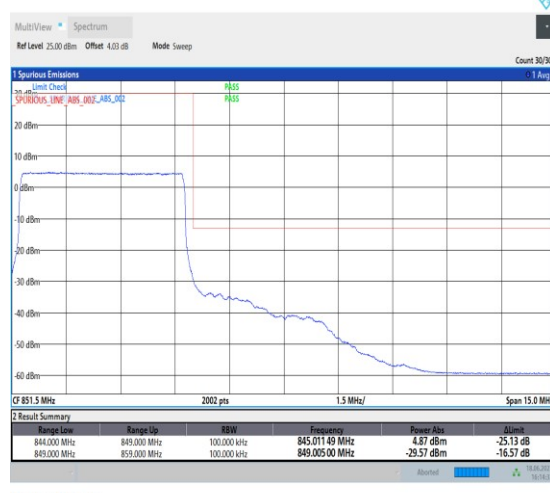
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4-Ant1-seegraph-PASS-see graph

1-N5--15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-A
nt1-seegraph-PASS-see graph



16:13:44 18.06.2022



16:14:32 18.06.2022

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1-N5--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-
seegraph-PASS-see graph



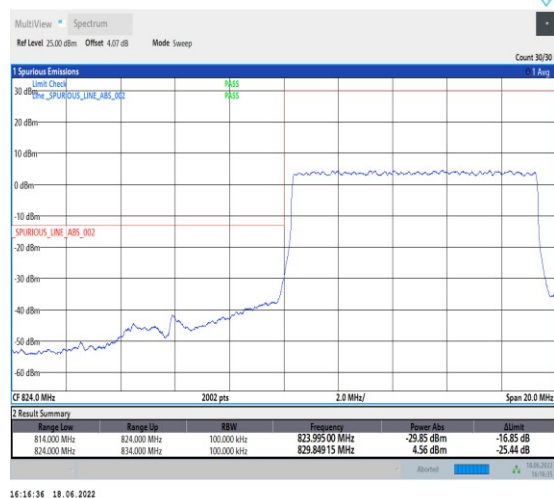
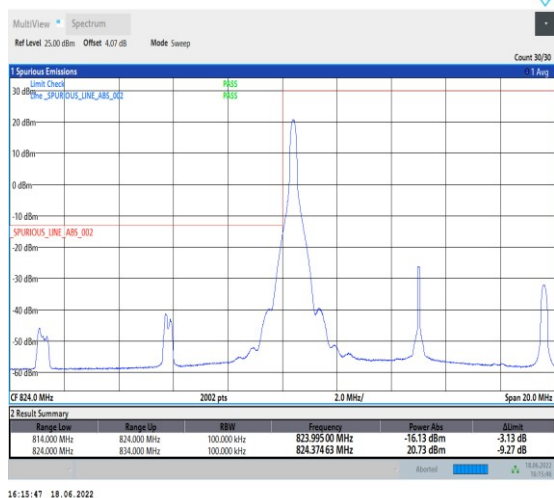
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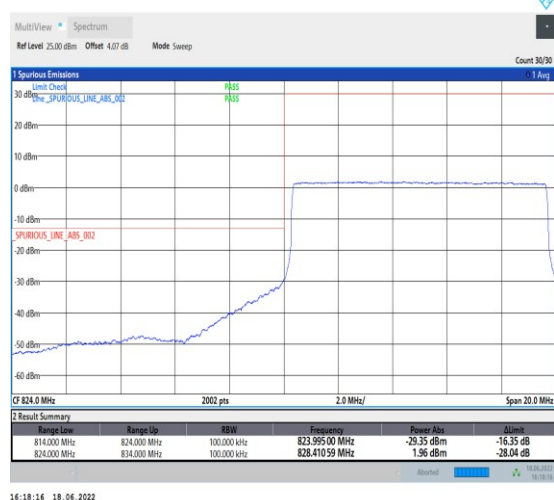
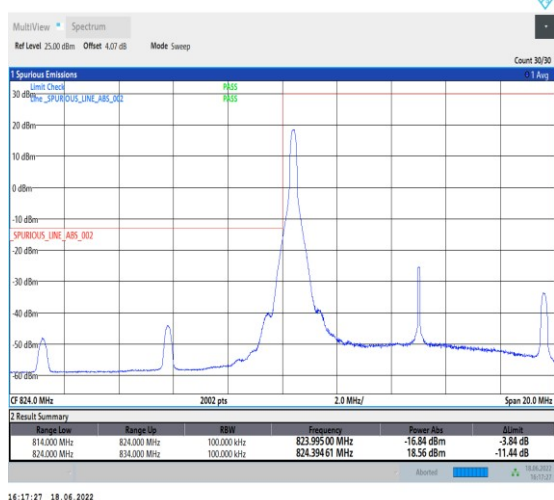
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1-N5--15-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph

1-N5--15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-seegraph-PASS-see graph



1-N5--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph

1-N5--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-seegraph-PASS-see graph



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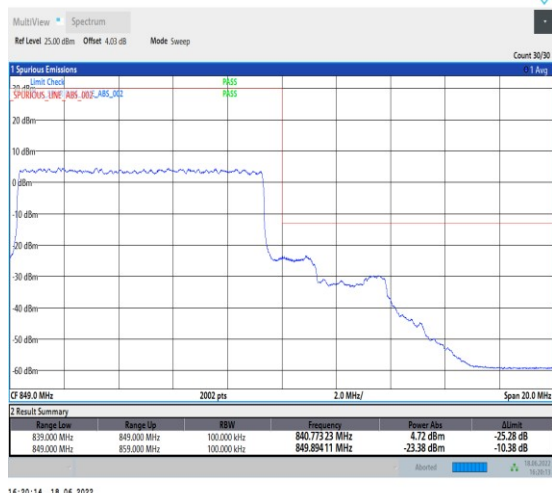
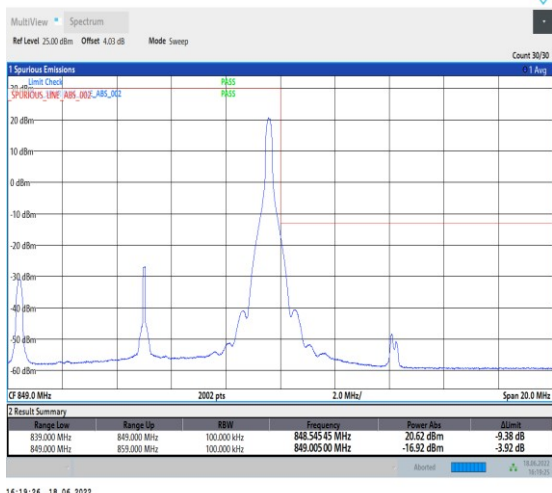
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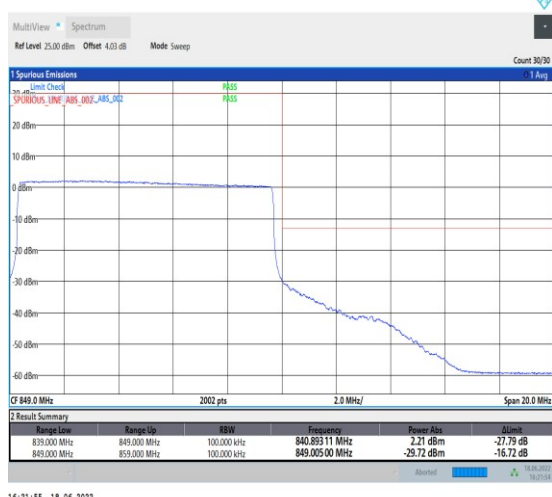
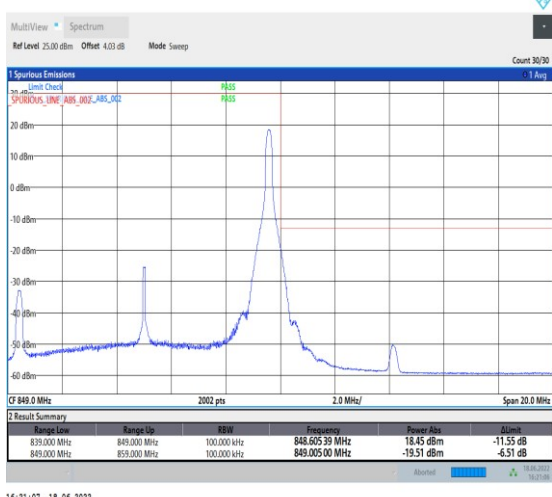
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1-N5--15-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@51-Ant1-seegraph-PASS-see graph

1-N5--15-10-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-seegraph-PASS-see graph



1-N5--15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant1-seegraph-PASS-see graph

1-N5--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-seegraph-PASS-see graph



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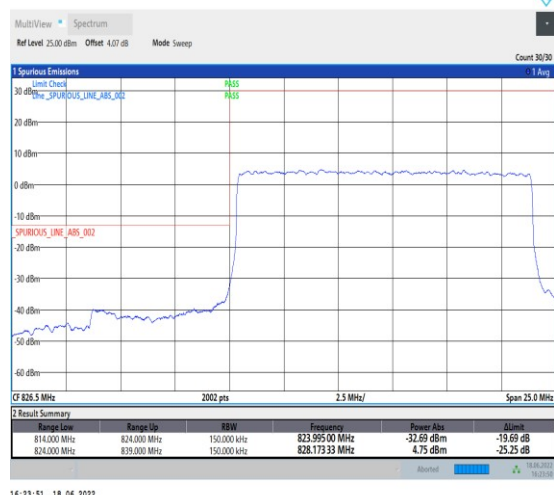
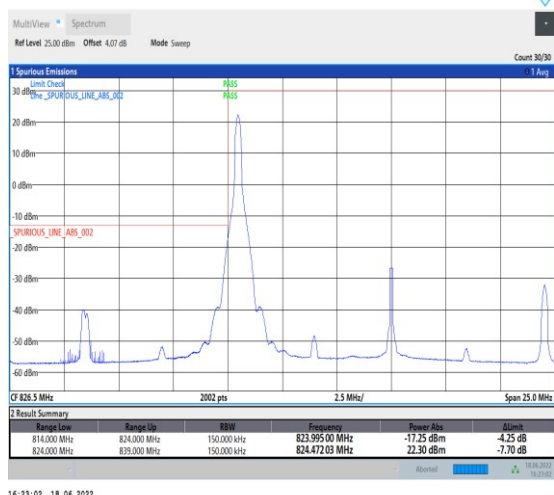
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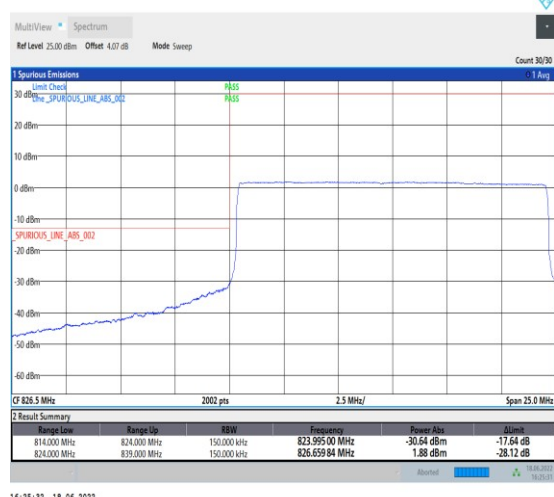
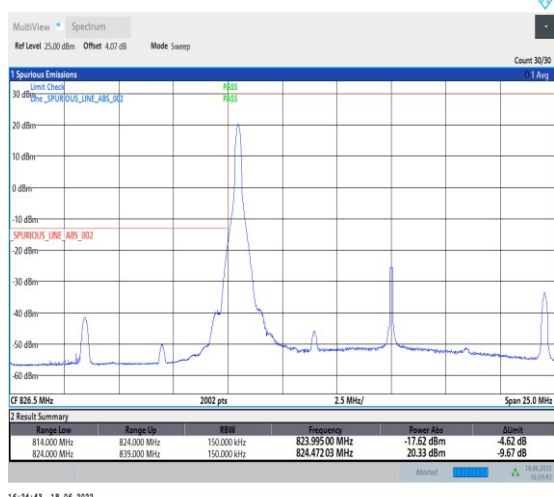
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1-N5--15-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph

1-N5--15-15-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-seegraph-PASS-see graph



1-N5--15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph

1-N5--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-seegraph-PASS-see graph



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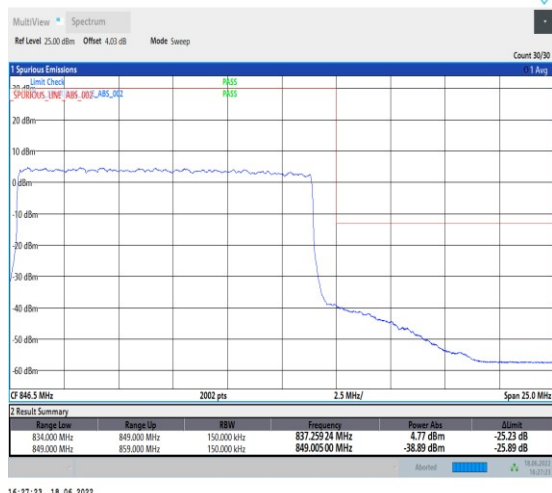
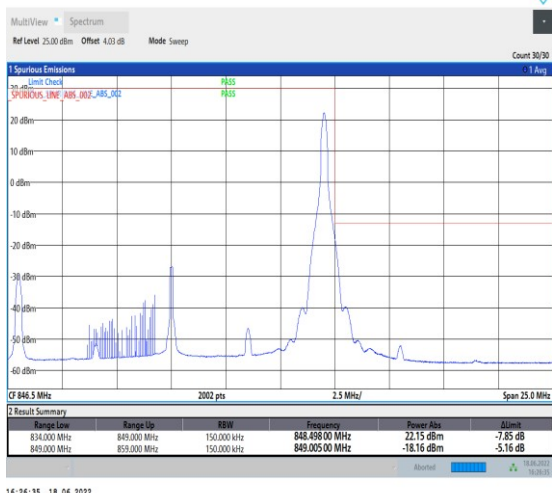
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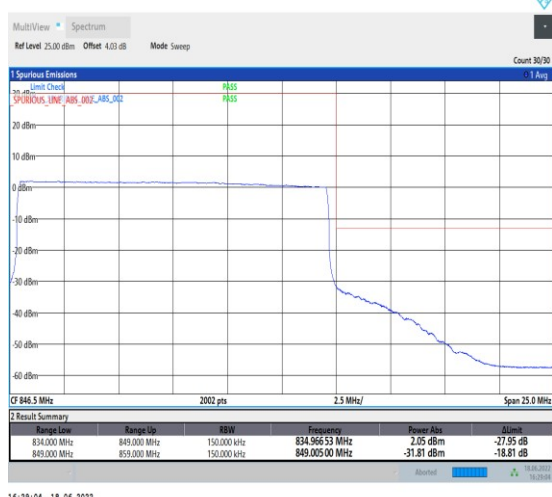
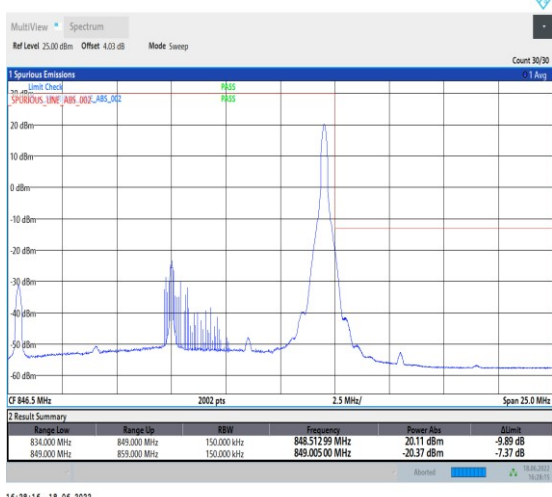
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1-N5--15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@78-Ant1-seegraph-PASS-see graph

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1-N5--15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant1-seegraph-PASS-see graph

1-N5--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-seegraph-PASS-see graph



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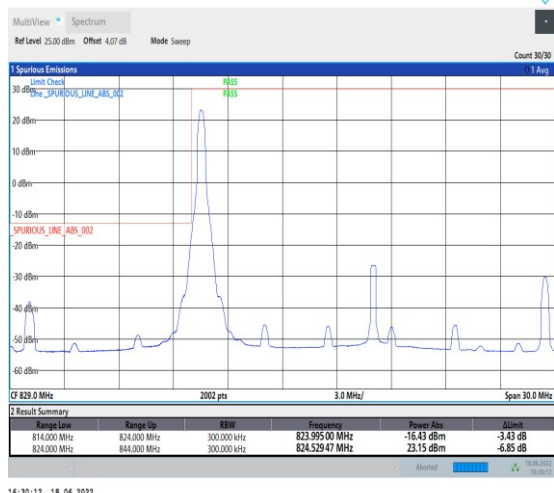
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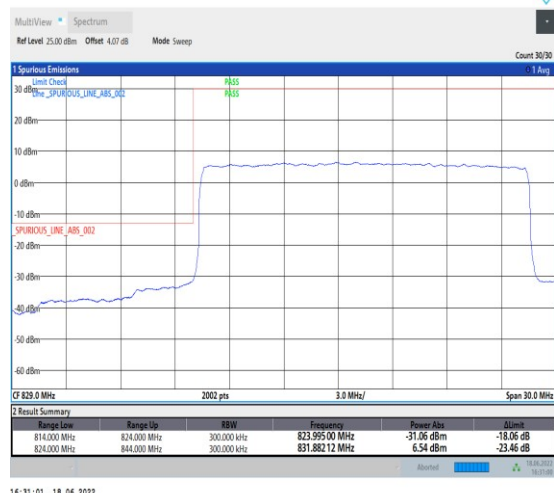
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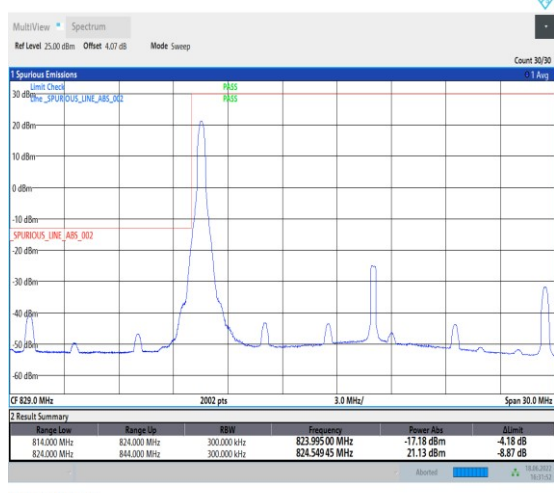
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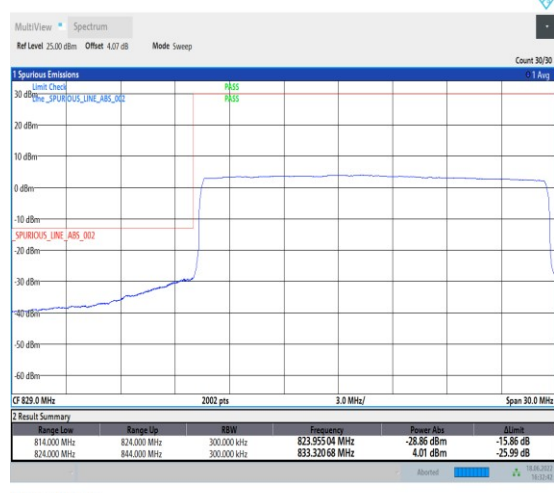
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16:32:42 18.06.2022

1-N5--15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant1-seegraph-PASS-see graph



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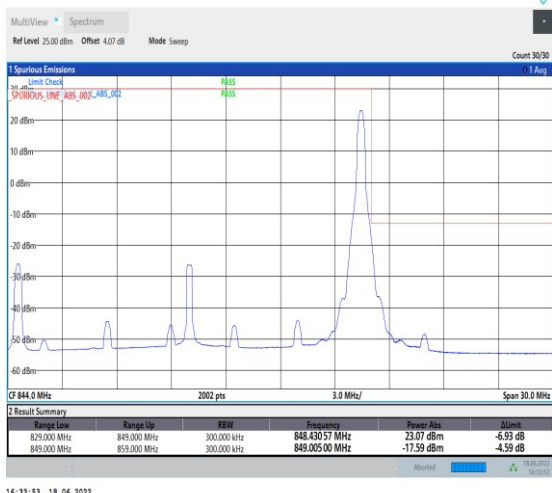
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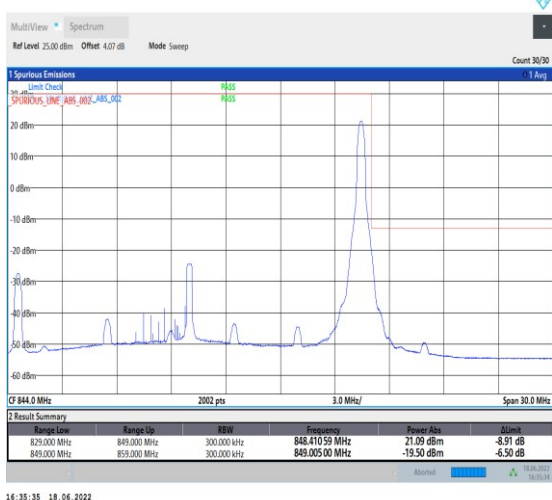
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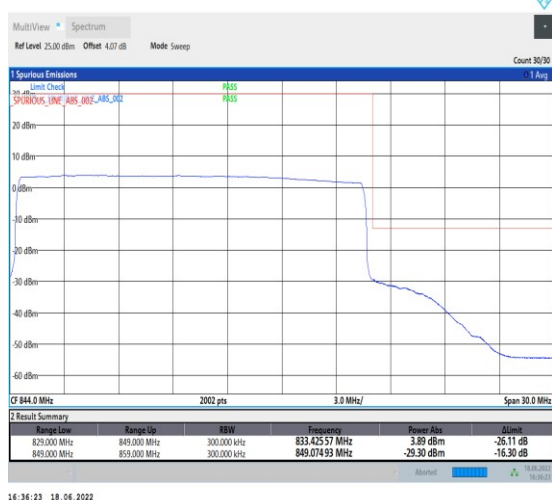
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1-N5--15-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant1-seegraph-PASS-see graph

1-N5--15-20-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-seegraph-PASS-see graph



16:35:35 18.06.2022



16:36:23 18.06.2022

1-N5--15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-seegraph-PASS-see graph

1-N5--15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant1-seegraph-PASS-see graph



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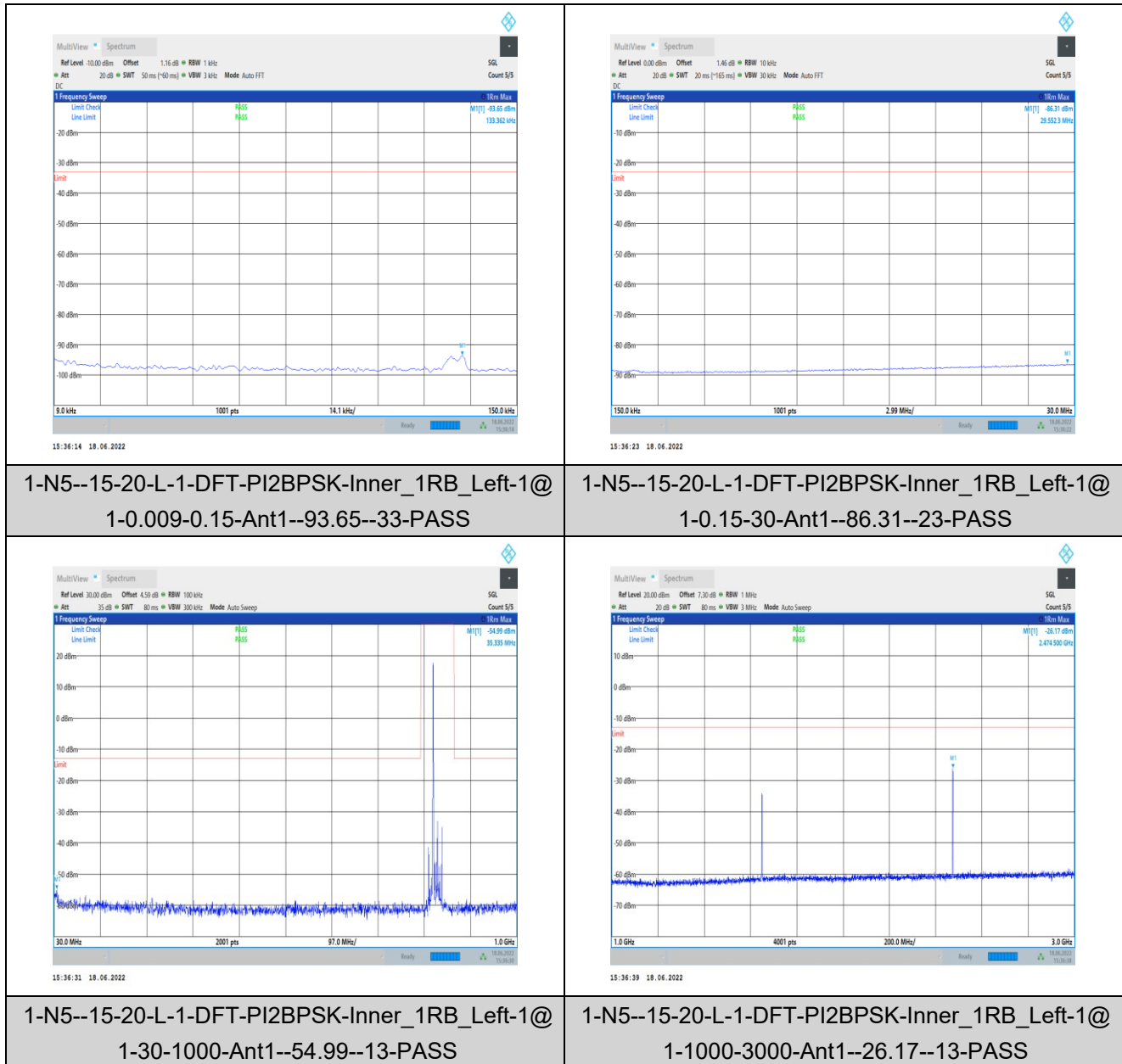
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Conducted Spurious Emission for SA

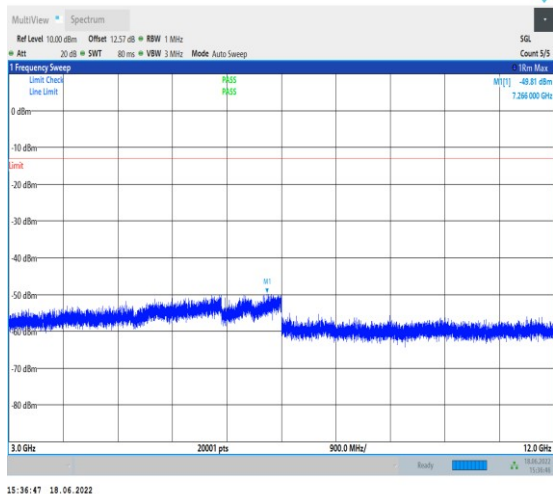
Test Graphs



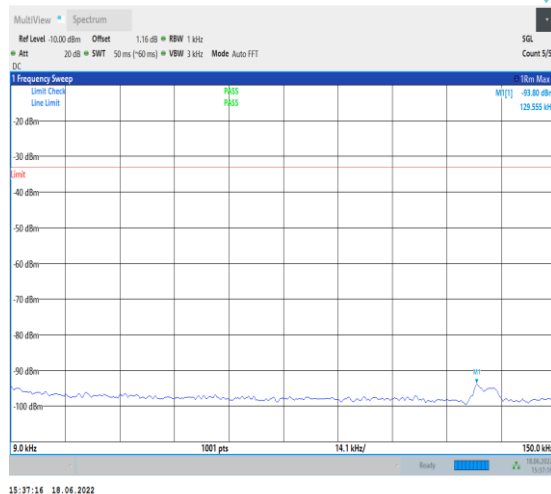
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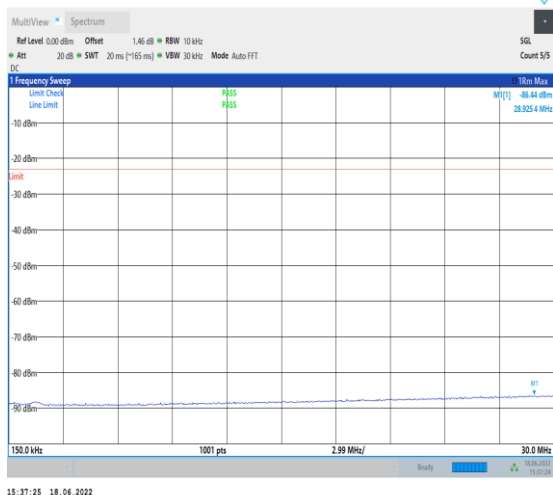
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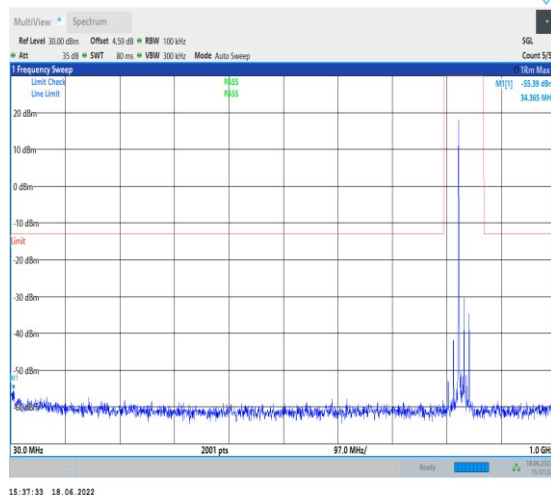
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1-3000-12000-Ant1--49.81--13-PASS



1-N5--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-0.009-0.15-Ant1--93.80--33-PASS



1-N5--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-0.15-30-Ant1--86.44--23-PASS



1-N5--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-30-1000-Ant1--55.39--13-PASS



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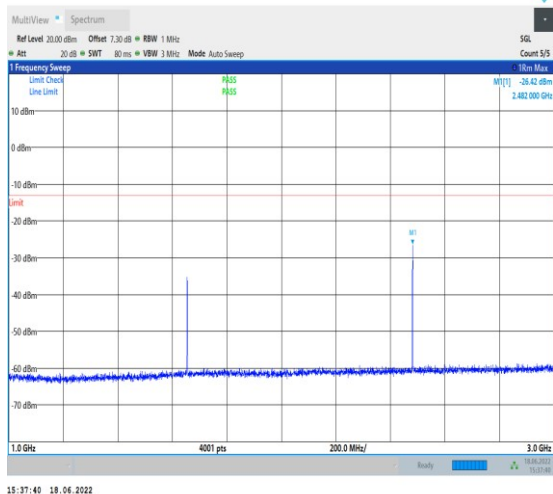
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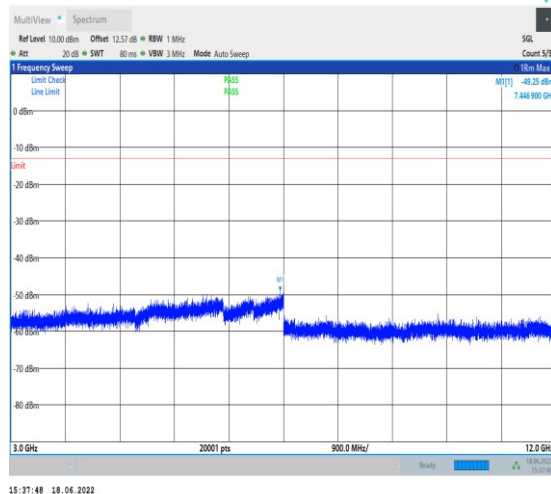
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Rev.: 01

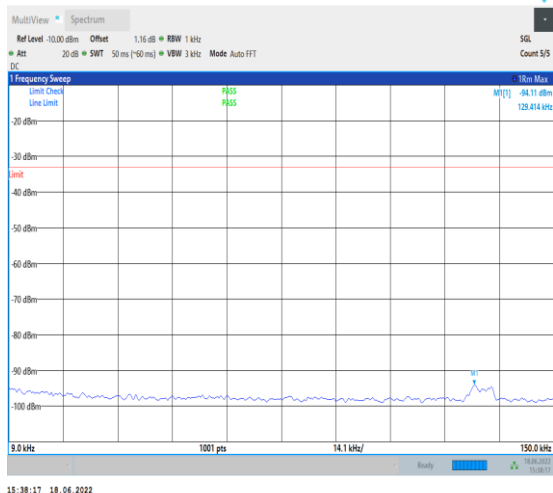
Page: 54 of 66



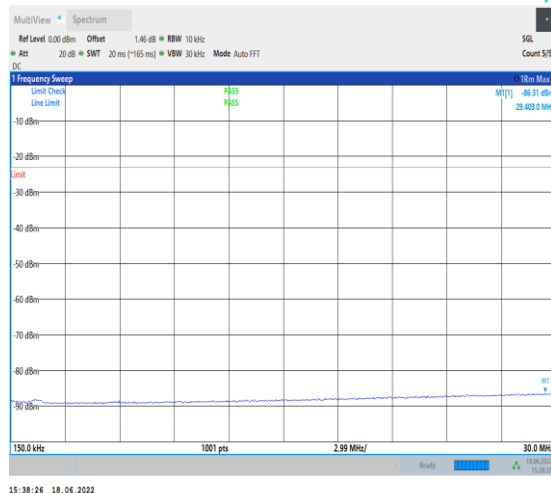
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1-1000-3000-Ant1--26.42--13-PASS



1-N5--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-3000-12000-Ant1--49.25--13-PASS



1-N5--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-0.009-0.15-Ant1--94.11--33-PASS



1-N5--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-0.15-30-Ant1--86.31--23-PASS



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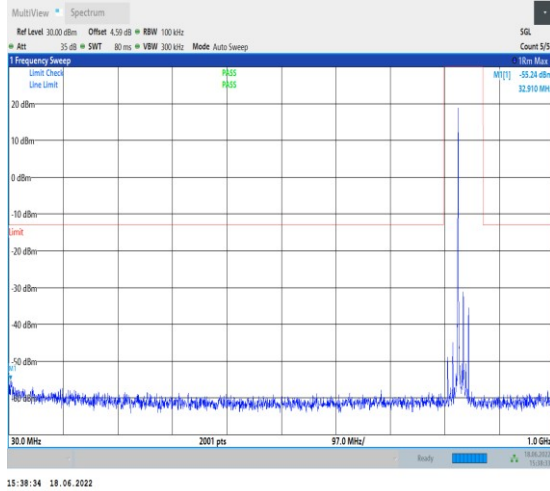
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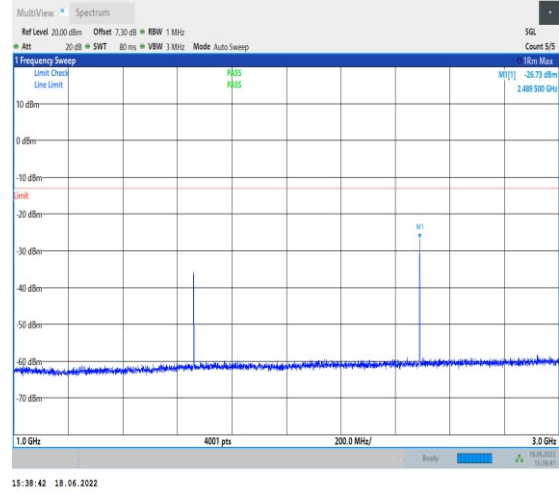
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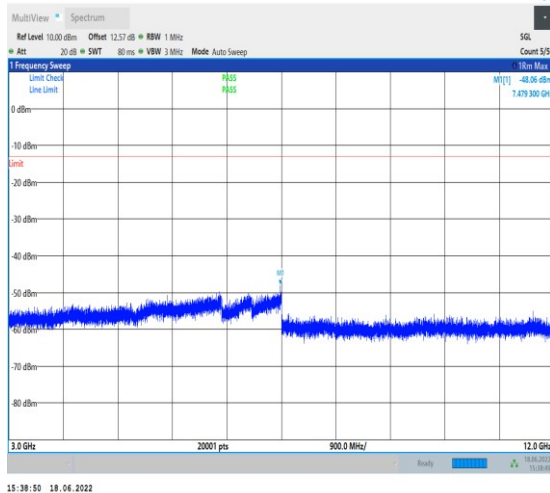
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1-N5--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-30-1000-Ant1--55.24--13-PASS



1-N5--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-1000-3000-Ant1--26.73--13-PASS



1-N5--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-3000-12000-Ant1--48.06--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band5_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.1800	52.53	-118.11	-65.58	-13.00	52.58	236	360	Horizontal
2	2475.2700	51.85	-114.89	-63.04	-13.00	50.04	191	4	Horizontal
3	3300.3600	51.00	-112.38	-61.38	-13.00	48.38	147	93	Horizontal
4	4125.4500	51.17	-110.19	-59.02	-13.00	46.02	182	265	Horizontal
5	4950.5400	50.18	-108.21	-58.03	-13.00	45.03	215	360	Horizontal
6	5775.6300	50.27	-106.24	-55.97	-13.00	42.97	263	187	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.1800	51.82	-118.11	-66.29	-13.00	53.29	189	1	Vertical
2	2475.2700	51.32	-114.89	-63.57	-13.00	50.57	174	322	Vertical
3	3300.3600	51.67	-112.38	-60.71	-13.00	47.71	256	17	Vertical
4	4125.4500	50.16	-110.19	-60.03	-13.00	47.03	236	68	Vertical
5	4950.5400	50.55	-108.21	-57.66	-13.00	44.66	191	356	Vertical
6	5775.6300	48.54	-106.24	-57.70	-13.00	44.70	142	282	Vertical



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Test Band = SA Band5_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.1800	52.63	-118.10	-65.47	-13.00	52.47	228	359	Horizontal
2	2482.7700	53.89	-114.85	-60.96	-13.00	47.96	194	239	Horizontal
3	3310.3600	50.08	-112.38	-62.30	-13.00	49.30	172	226	Horizontal
4	4137.9500	49.16	-110.18	-61.02	-13.00	48.02	236	133	Horizontal
5	4965.5400	50.65	-108.21	-57.56	-13.00	44.56	251	133	Horizontal
6	5793.1300	49.55	-106.19	-56.64	-13.00	43.64	160	344	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.1800	51.00	-118.10	-67.10	-13.00	54.10	194	1	Vertical
2	2482.7700	50.89	-114.85	-63.96	-13.00	50.96	175	10	Vertical
3	3310.3600	50.45	-112.38	-61.93	-13.00	48.93	230	125	Vertical
4	4137.9500	49.25	-110.18	-60.93	-13.00	47.93	136	255	Vertical
5	4965.5400	49.62	-108.21	-58.59	-13.00	45.59	169	30	Vertical
6	5793.1300	49.12	-106.19	-57.07	-13.00	44.07	191	269	Vertical



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Test Band = SA Band5_ TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.1800	51.83	-118.09	-66.26	-13.00	53.26	251	146	Horizontal
2	2490.2700	51.32	-114.81	-63.49	-13.00	50.49	136	39	Horizontal
3	3320.3600	51.95	-112.38	-60.43	-13.00	47.43	164	146	Horizontal
4	4150.4500	48.55	-110.16	-61.61	-13.00	48.61	195	66	Horizontal
5	4980.5400	50.25	-108.20	-57.95	-13.00	44.95	172	53	Horizontal
6	5810.6300	50.36	-106.18	-55.82	-13.00	42.82	215	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.1800	51.65	-118.09	-66.44	-13.00	53.44	213	215	Vertical
2	2490.2700	51.21	-114.81	-63.60	-13.00	50.60	236	0	Vertical
3	3320.3600	51.04	-112.38	-61.34	-13.00	48.34	164	4	Vertical
4	4150.4500	49.62	-110.16	-60.54	-13.00	47.54	194	97	Vertical
5	4980.5400	50.66	-108.20	-57.54	-13.00	44.54	172	357	Vertical
6	5810.6300	48.70	-106.18	-57.48	-13.00	44.48	299	201	Vertical



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Test Band = NSA 2A-n5A_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1125.3333	46.89	-94.91	-48.02	-13.00	35.02	162	219	Horizontal
2	1625.3333	43.51	-94.77	-51.26	-13.00	38.26	185	4	Horizontal
3	3062.4	59.75	-111.83	-52.08	-13.00	39.08	134	194	Horizontal
4	3702.1800	50.35	-110.79	-60.44	-13.00	47.44	248	222	Horizontal
5	5553.2700	49.21	-107.44	-58.23	-13.00	45.23	273	316	Horizontal
6	7404.3600	48.28	-102.17	-53.89	-13.00	40.89	146	330	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1124.6667	42.11	-94.91	-52.80	-13.00	39.80	285	230	Vertical
2	2125.3333	44.22	-92.35	-48.13	-13.00	35.13	274	130	Vertical
3	2680	40.82	-89.85	-49.03	-13.00	36.03	263	4	Vertical
4	3702.1800	51.02	-110.79	-59.77	-13.00	46.77	289	0	Vertical
5	5553.2700	48.93	-107.44	-58.51	-13.00	45.51	174	0	Vertical
6	7404.3600	47.59	-102.17	-54.58	-13.00	41.58	157	0	Vertical



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Test Band = NSA 2A-n5A_ TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1125.3333	46.64	-94.91	-48.27	-13.00	35.27	288	228	Horizontal
2	1350	40.03	-94.58	-54.55	-13.00	41.55	247	3	Horizontal
3	3742.1800	50.99	-110.82	-59.83	-13.00	46.83	235	270	Horizontal
4	5613.2700	48.12	-107.23	-59.11	-13.00	46.11	277	0	Horizontal
5	5898.3	54.77	-106.29	-51.52	-13.00	38.52	174	356	Horizontal
6	7484.3600	49.06	-101.99	-52.93	-13.00	39.93	189	61	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1242	40.78	-94.63	-53.85	-13.00	40.85	178	219	Vertical
2	1624.6667	40.62	-94.77	-54.15	-13.00	41.15	247	259	Vertical
3	2126	44.05	-92.35	-48.30	-13.00	35.30	187	120	Vertical
4	3742.1800	50.37	-110.82	-60.45	-13.00	47.45	280	16	Vertical
5	5613.2700	49.02	-107.23	-58.21	-13.00	45.21	283	89	Vertical
6	7484.3600	46.73	-101.99	-55.26	-13.00	42.26	180	0	Vertical



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Test Band = NSA 2A-n5A_TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1124.6667	46.69	-94.91	-48.22	-13.00	35.22	174	231	Horizontal
2	2754	40.32	-89.56	-49.24	-13.00	36.24	247	359	Horizontal
3	3782.1800	51.58	-110.84	-59.26	-13.00	46.26	236	357	Horizontal
4	5673.2700	47.42	-106.88	-59.46	-13.00	46.46	208	180	Horizontal
5	5898.3	54.90	-106.29	-51.39	-13.00	38.39	109	357	Horizontal
6	7564.3600	46.98	-101.86	-54.88	-13.00	41.88	125	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1124.6667	41.93	-94.91	-52.98	-13.00	39.98	285	230	Vertical
2	2124.6667	44.18	-92.36	-48.18	-13.00	35.18	265	120	Vertical
3	3782.1800	49.87	-110.84	-60.97	-13.00	47.97	241	0	Vertical
4	5673.2700	50.16	-106.88	-56.72	-13.00	43.72	175	0	Vertical
5	7372.8	51.95	-102.26	-50.31	-13.00	37.31	107	357	Vertical
6	7564.3600	46.66	-101.86	-55.20	-13.00	42.20	150	331	Vertical



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Test Band = NSA 66A-n5A_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.1800	36.99	-94.70	-57.71	-13.00	44.71	122	197	Horizontal
2	2475.2700	36.94	-91.12	-54.18	-13.00	41.18	145	144	Horizontal
3	3300.3600	50.25	-112.16	-61.91	-13.00	48.91	165	215	Horizontal
4	4125.4500	48.70	-110.03	-61.33	-13.00	48.33	251	1	Horizontal
5	4950.5400	48.58	-108.10	-59.52	-13.00	46.52	148	234	Horizontal
6	5775.6300	48.27	-106.37	-58.10	-13.00	45.10	195	2	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.1800	36.80	-94.70	-57.90	-13.00	44.90	169	293	Vertical
2	2475.2700	37.69	-91.12	-53.43	-13.00	40.43	154	359	Vertical
3	3300.3600	50.86	-112.16	-61.30	-13.00	48.30	185	20	Vertical
4	4125.4500	49.71	-110.03	-60.32	-13.00	47.32	148	357	Vertical
5	4950.5400	51.26	-108.10	-56.84	-13.00	43.84	176	72	Vertical
6	5775.6300	47.96	-106.37	-58.41	-13.00	45.41	191	307	Vertical



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Test Band = NSA 66A-n5A_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.1800	36.26	-94.69	-58.43	-13.00	45.43	169	323	Horizontal
2	2482.7700	38.17	-91.09	-52.92	-13.00	39.92	195	323	Horizontal
3	3310.3600	50.01	-112.16	-62.15	-13.00	49.15	148	214	Horizontal
4	4137.9500	48.85	-110.02	-61.17	-13.00	48.17	175	144	Horizontal
5	4965.5400	48.47	-108.08	-59.61	-13.00	46.61	251	233	Horizontal
6	5793.1300	47.63	-106.29	-58.66	-13.00	45.66	211	89	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.1800	36.99	-94.69	-57.70	-13.00	44.70	148	225	Vertical
2	2482.7700	36.94	-91.09	-54.15	-13.00	41.15	195	352	Vertical
3	3310.3600	50.47	-112.16	-61.69	-13.00	48.69	146	178	Vertical
4	4137.9500	50.21	-110.02	-59.81	-13.00	46.81	126	233	Vertical
5	4965.5400	49.25	-108.08	-58.83	-13.00	45.83	261	342	Vertical
6	5793.1300	48.10	-106.29	-58.19	-13.00	45.19	144	357	Vertical



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Test Band = NSA 66A-Nn5A_ TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.1800	37.53	-94.68	-57.15	-13.00	44.15	125	4	Horizontal
2	2490.2700	38.12	-91.06	-52.94	-13.00	39.94	236	13	Horizontal
3	3320.3600	51.26	-112.15	-60.89	-13.00	47.89	261	237	Horizontal
4	4150.4500	49.38	-110.00	-60.62	-13.00	47.62	145	201	Horizontal
5	4980.5400	48.98	-108.05	-59.07	-13.00	46.07	185	108	Horizontal
6	5810.6300	47.96	-106.26	-58.30	-13.00	45.30	194	273	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.1800	37.66	-94.68	-57.02	-13.00	44.02	251	158	Vertical
2	2490.2700	37.17	-91.06	-53.89	-13.00	40.89	142	67	Vertical
3	3320.3600	49.19	-112.15	-62.96	-13.00	49.96	236	255	Vertical
4	4150.4500	49.86	-110.00	-60.14	-13.00	47.14	261	1	Vertical
5	4980.5400	49.59	-108.05	-58.46	-13.00	45.46	194	0	Vertical
6	5810.6300	48.87	-106.26	-57.39	-13.00	44.39	175	20	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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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)	Limit (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.500000	-0.002989	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.700000	-0.006814	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.800000	-0.003347	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	0.400000	0.000478	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	-0.500000	-0.000598	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	3.000000	0.003586	±2.5	PASS



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Frequency Error VS. Temperature

Temperature											
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	2.100000	0.002510	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.400000	-0.006455	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	1.700000	0.002032	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	2.200000	0.002630	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	2.600000	0.003108	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	1.800000	0.002152	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	1.000000	0.001195	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	4.700000	0.005619	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	1.100000	0.001315	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	0.300000	0.000359	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	-0.500000	-0.000598	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	6.000000	0.007173	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	3.100000	0.003706	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	5.100000	0.006097	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	3.900000	0.004662	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	1.100000	0.001315	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	0.200000	0.000239	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	1.000000	0.001195	±2.5	PASS

The End



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