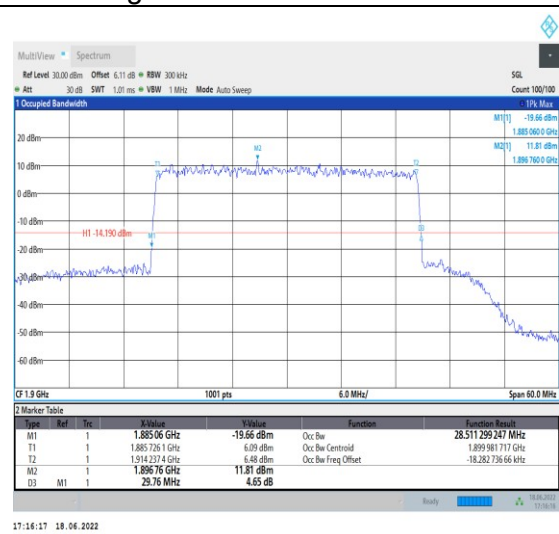
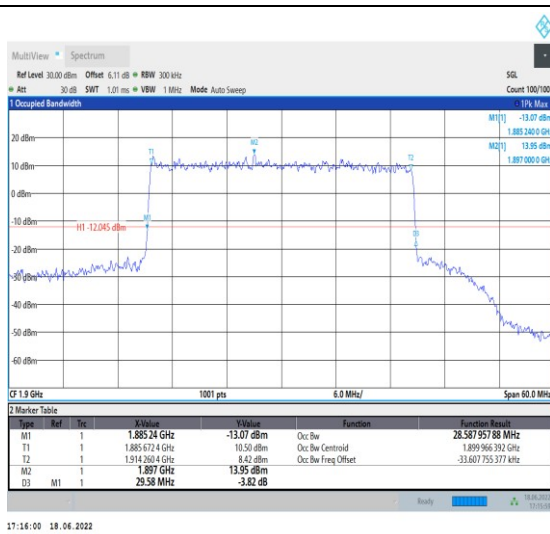


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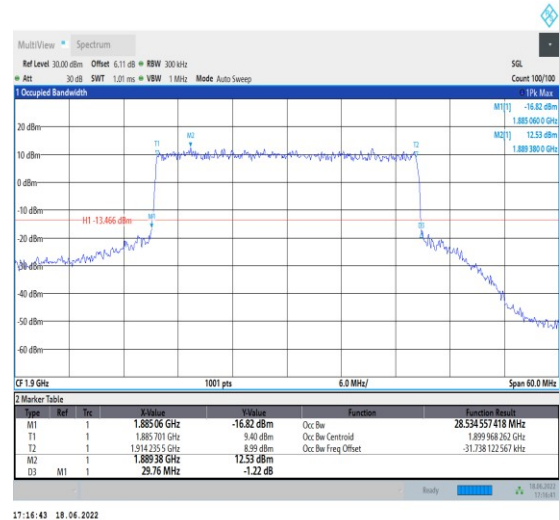
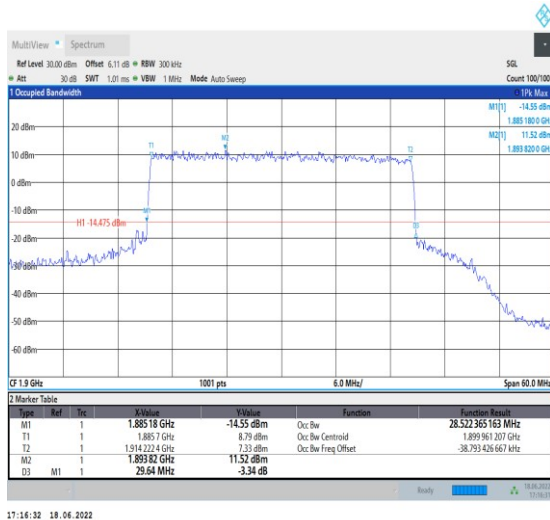
Rev.: 01

Page: 67 of 99



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1-N25-PC3-15-30-H-5-DFT-256QAM-Outer_Full-160
@0-Ant1-28.511-29.760-≤30-PASS



1-N25-PC3-15-30-H-6-CP-QPSK-Outer_Full-160@0
-Ant1-28.522-29.640-≤30-PASS

1-N25-PC3-15-30-H-7-CP-16QAM-Outer_Full-160@0
-Ant1-28.535-29.760-≤30-PASS



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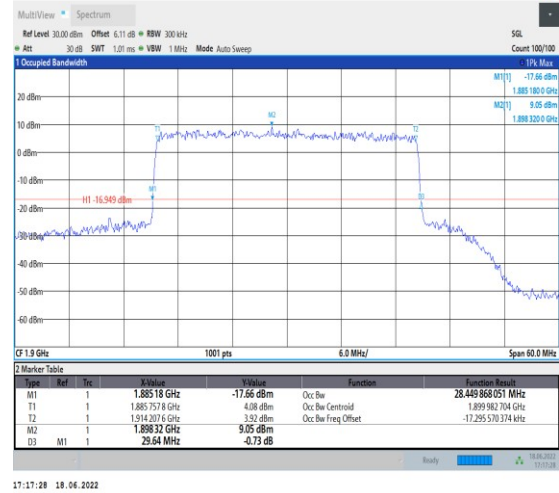
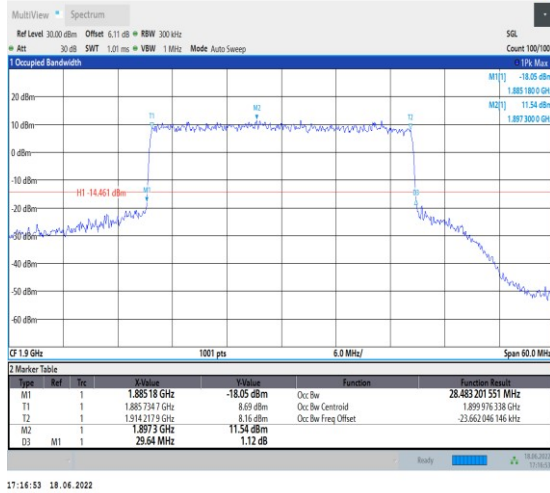
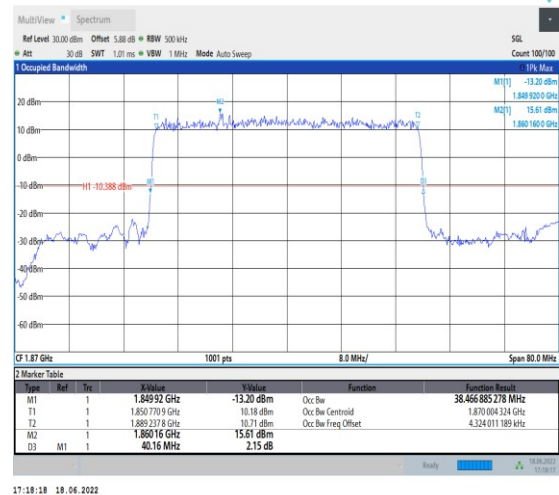
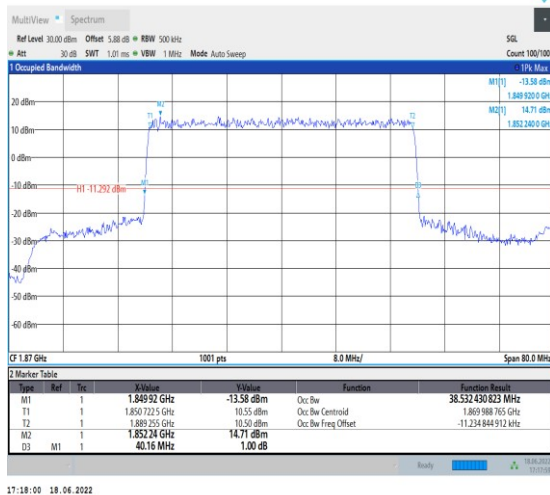
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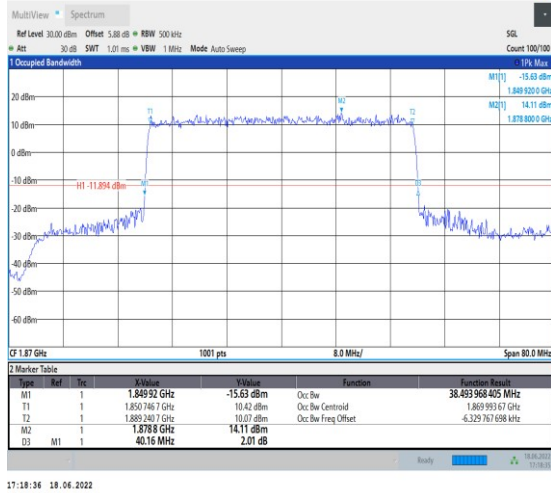
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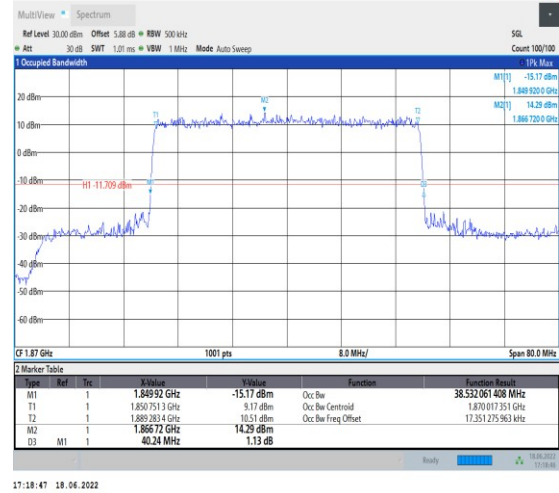
Report No.: SEWA2205000015RG02

Rev.: 01

Page: 69 of 99



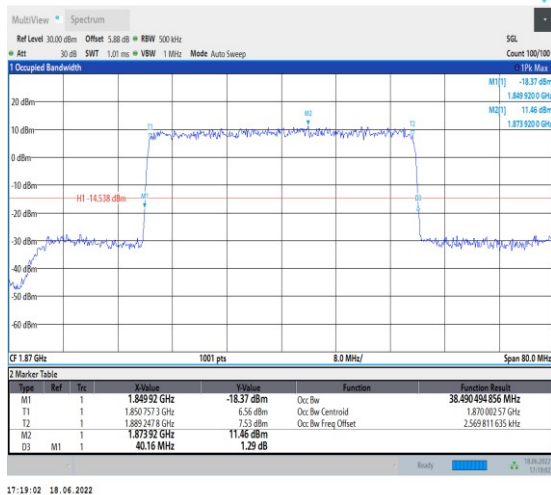
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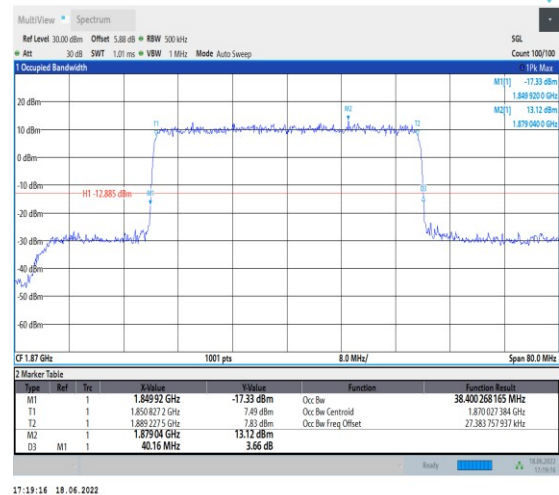
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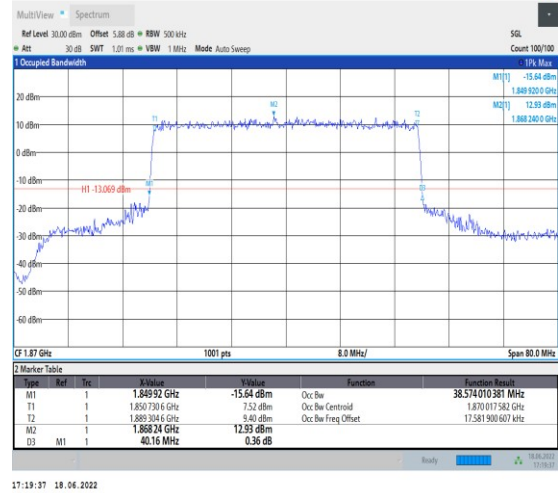
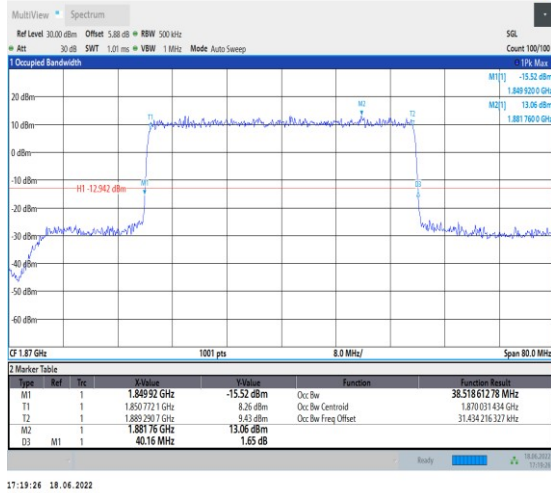
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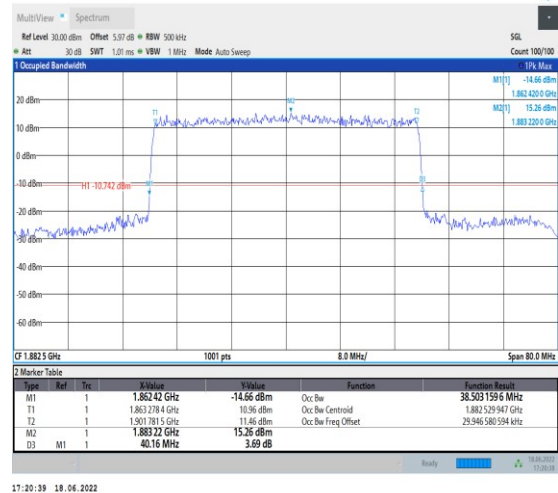
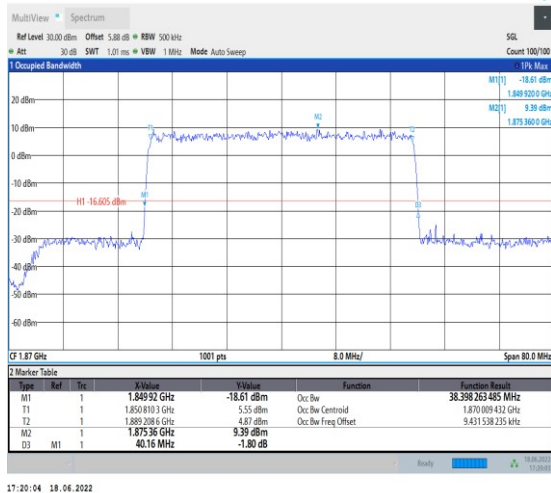
Rev.: 01

Page: 70 of 99



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1-N25-PC3-15-40-L-8-CP-64QAM-Outer_Full-216@
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1-N25-PC3-15-40-L-9-CP-256QAM-Outer_Full-216
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1-N25-PC3-15-40-M-1-DFT-QPSK-Outer_Full-216@
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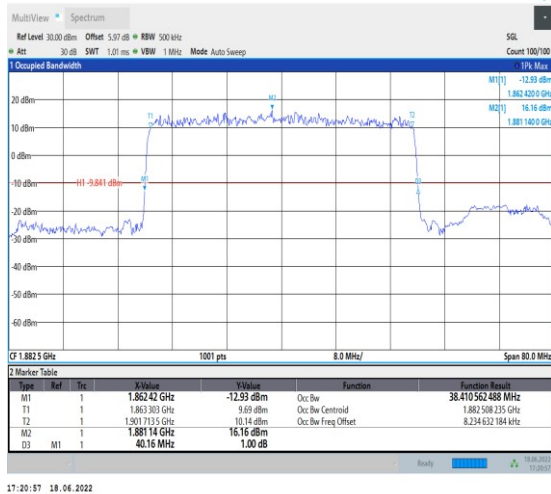
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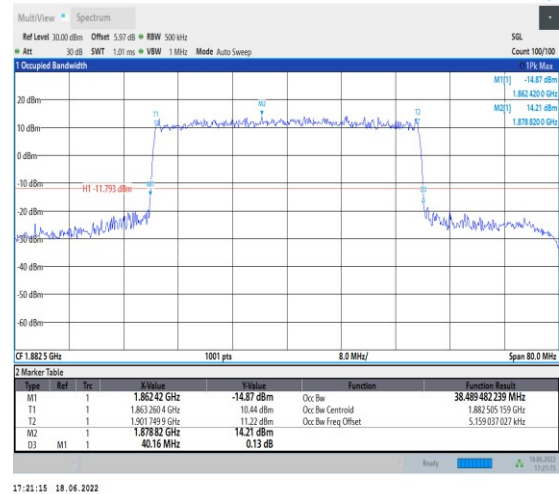
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Rev.: 01

Page: 71 of 99



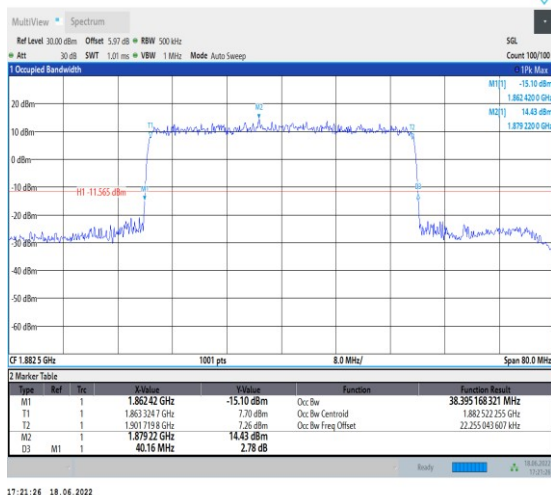
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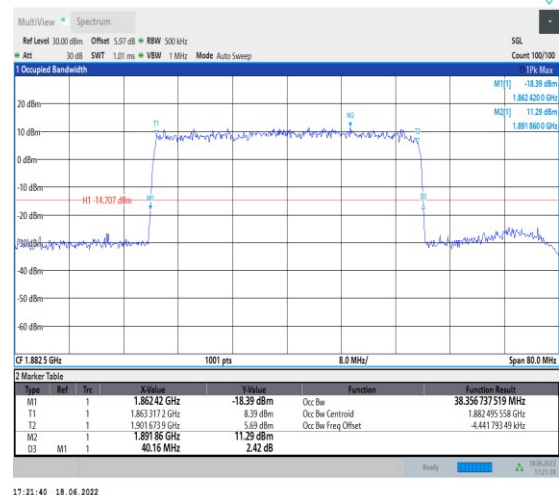
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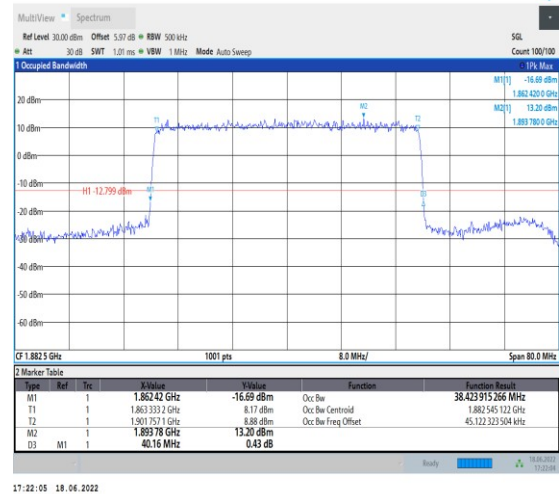
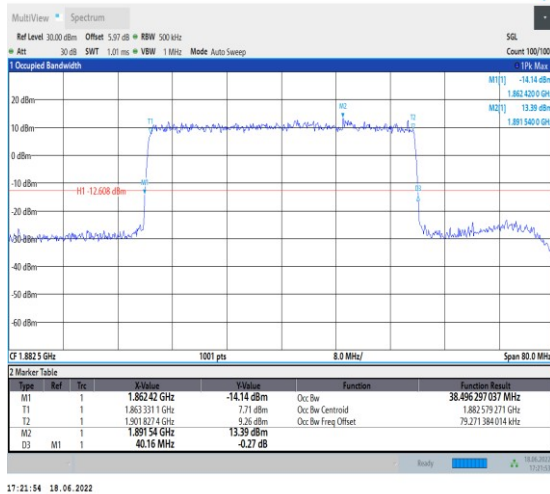
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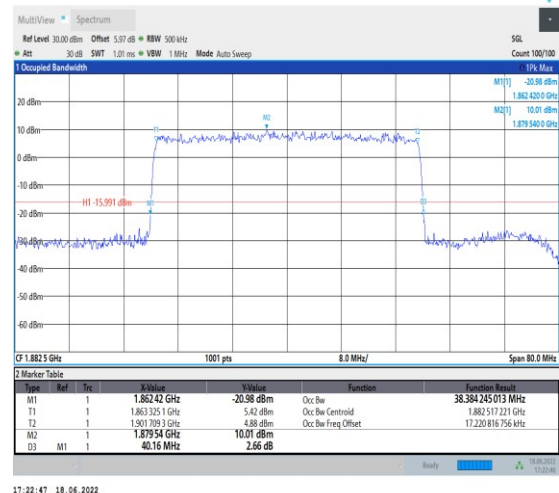
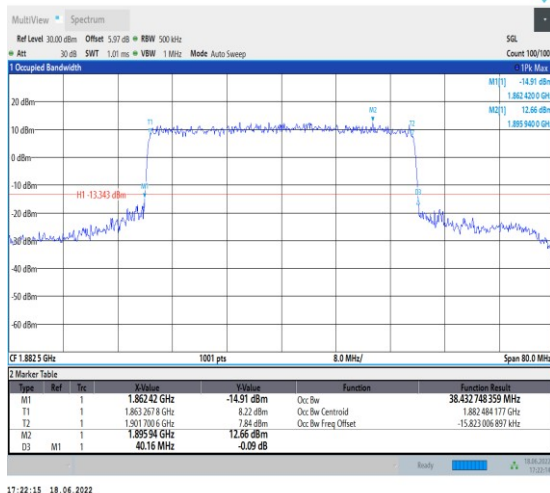
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Page: 72 of 99



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1-N25-PC3-15-40-M-9-CP-256QAM-Outer_Full-216@0-Ant1-38.384-40.160-≤40-PASS



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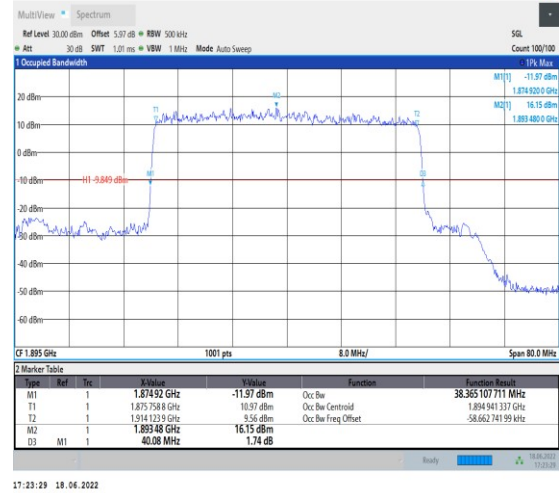
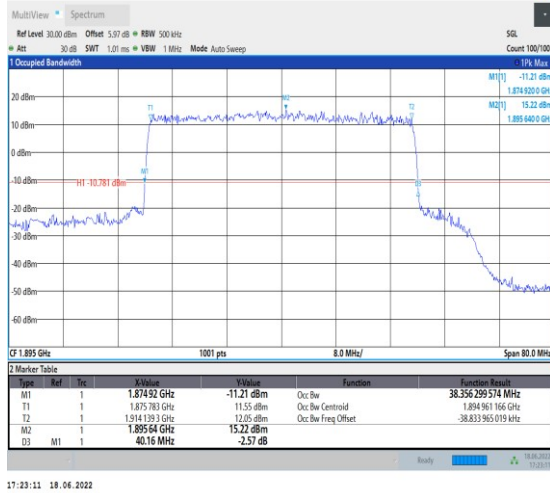
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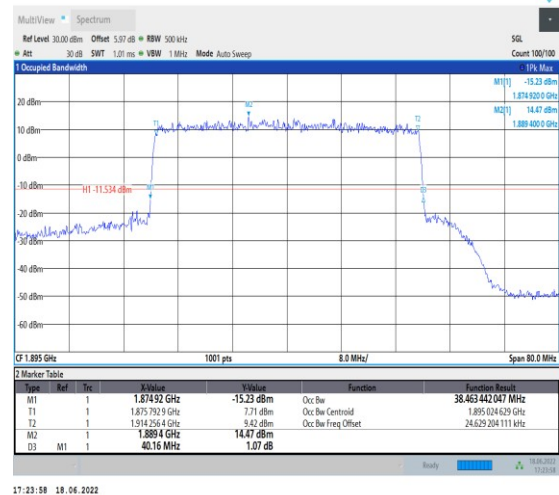
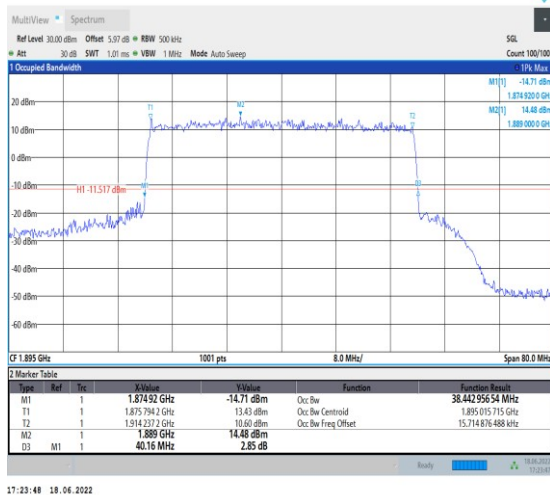
Rev.: 01

Page: 73 of 99



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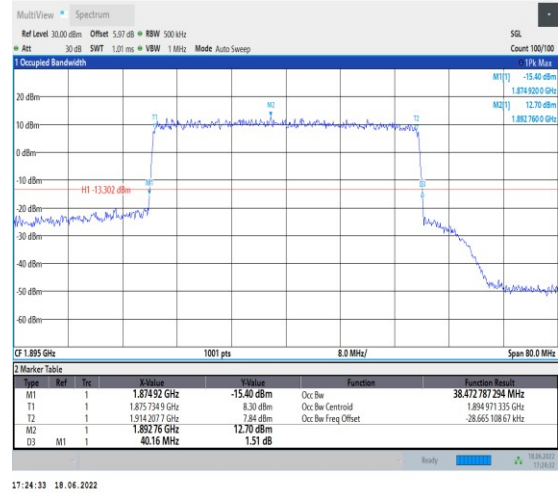
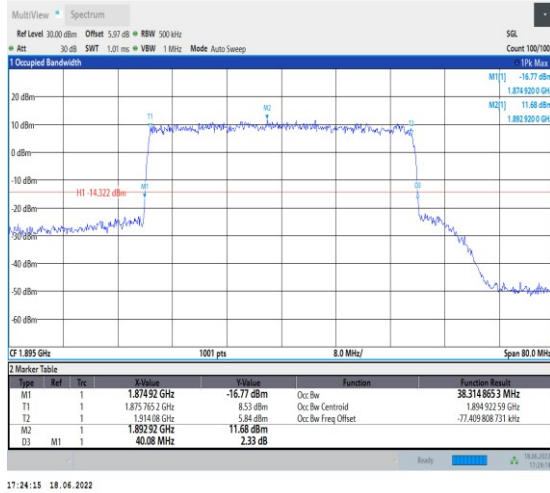
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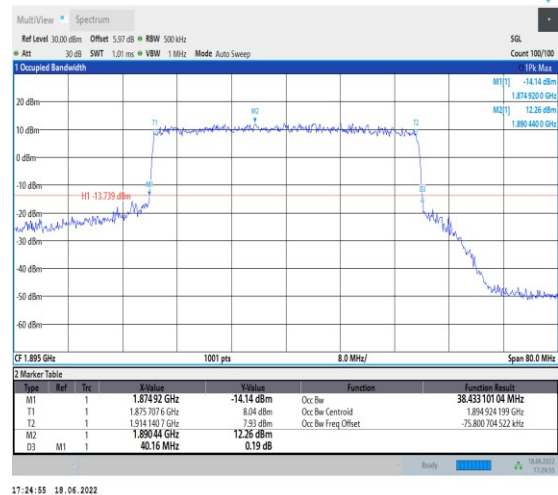
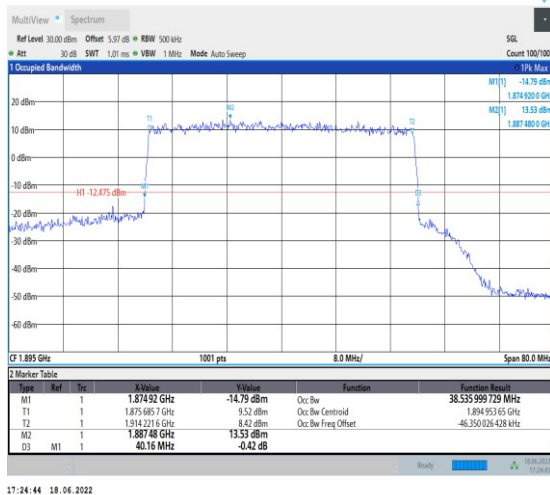
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Page: 74 of 99



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Rev.: 01

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1-N25-PC3-15-40-H-9-CP-256QAM-Outer_Full-216
@0-Ant1-38.5-40.080-≤40-PASS



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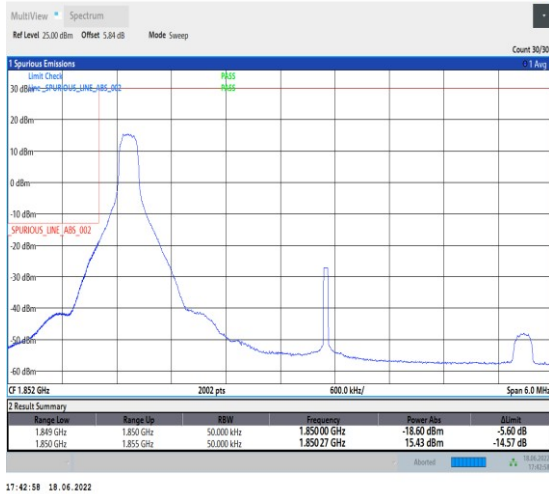
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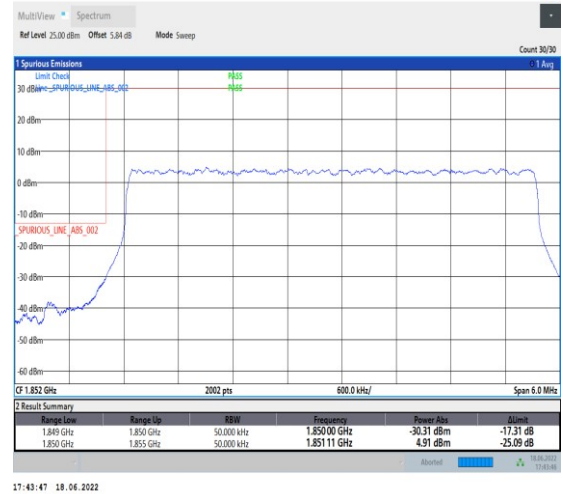
Report No.: SEWA2205000015RG02
 Rev.: 01
 Page: 76 of 99

Band Edge for SA

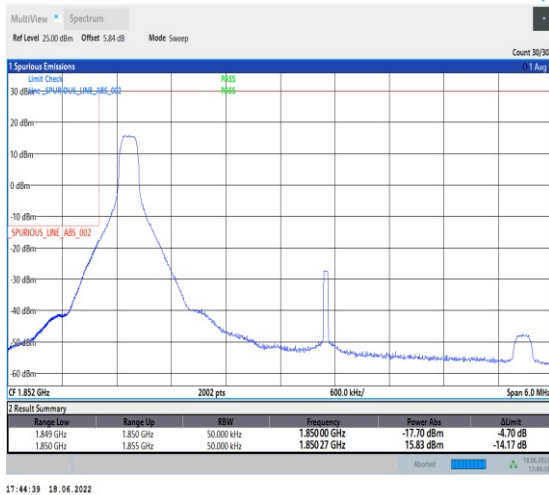
Test Graphs



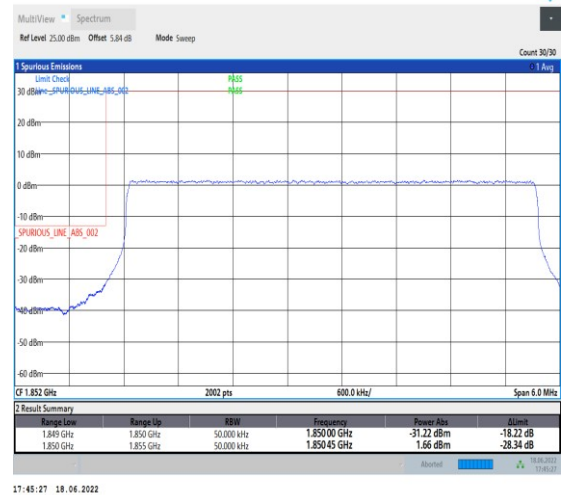
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1-N25--15-5-L-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-seegraph-PASS-see graph



1-N25--15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph



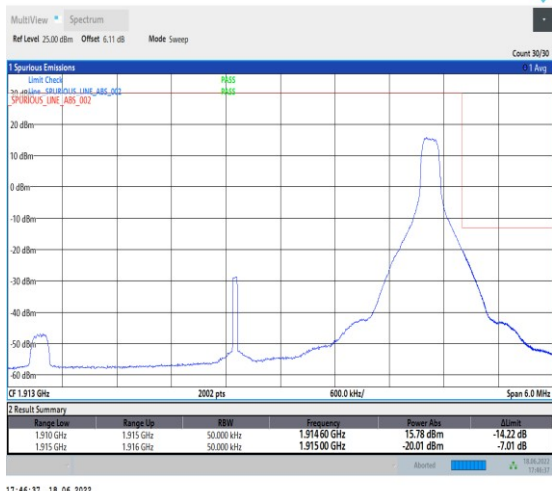
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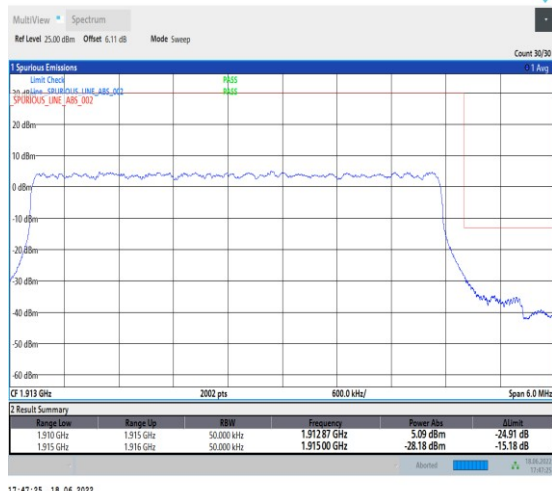
Rev.: 01

Page: 77 of 99



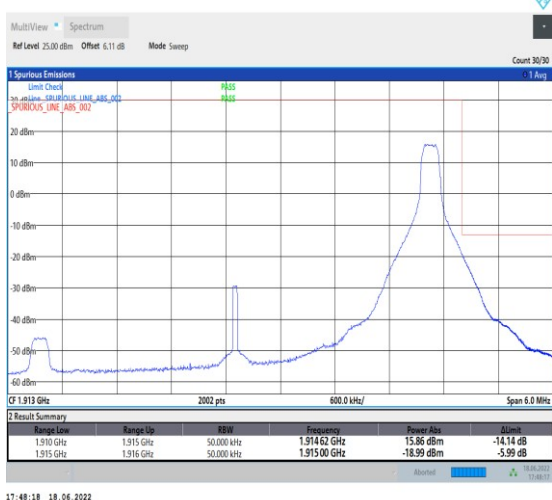
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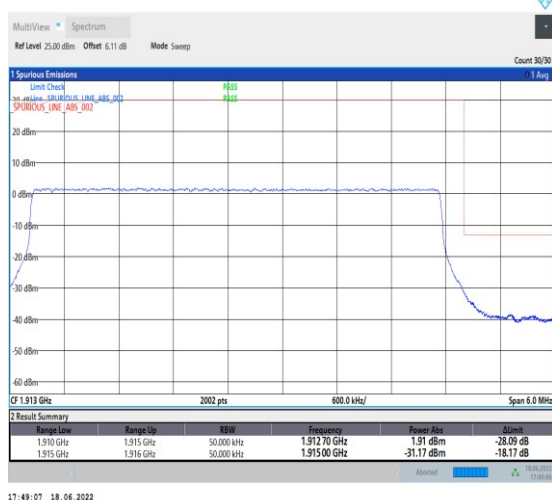
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1-N25--15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-seegraph-PASS-see graph



17:48:18 18.06.2022

1-N25--15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant1-seegraph-PASS-see graph



17:49:07 18.06.2022

1-N25--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-seegraph-PASS-see graph



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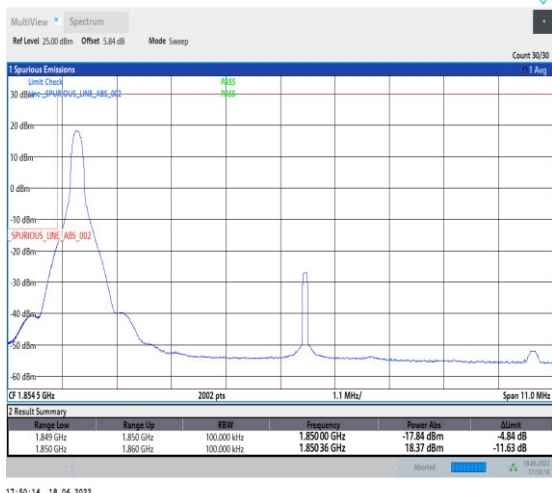
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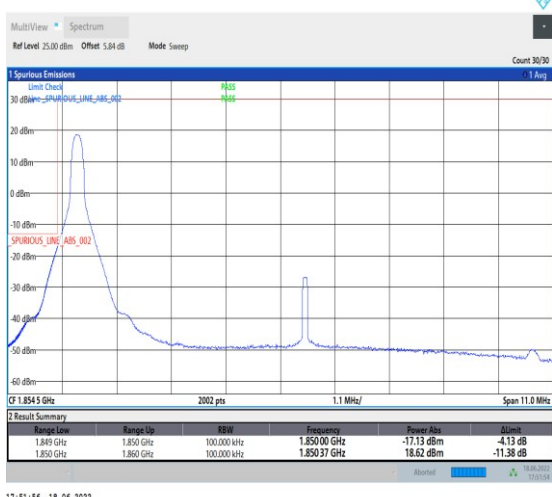
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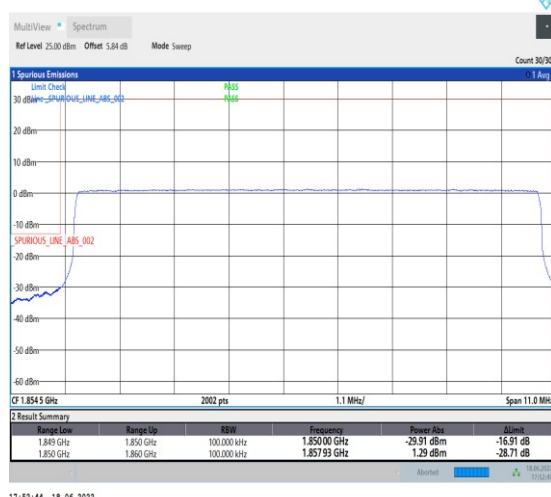
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-Ant1-seegraph-PASS-see graph



1-N25--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant
1-seegraph-PASS-see graph



1-N25--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant
1-seegraph-PASS-see graph



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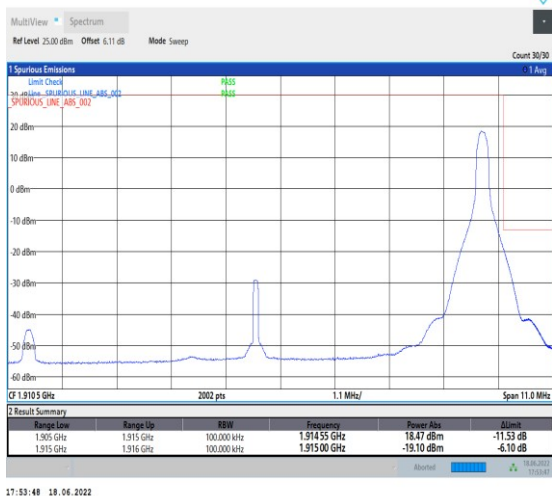
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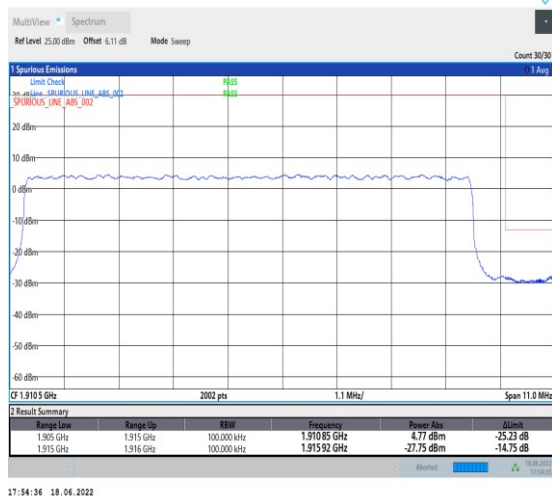
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Rev.: 01

Page: 79 of 99



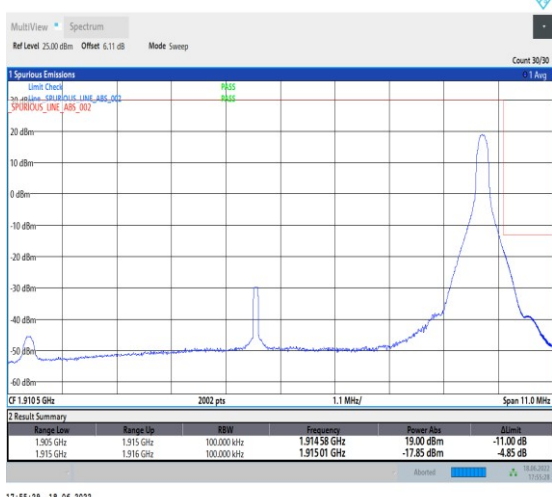
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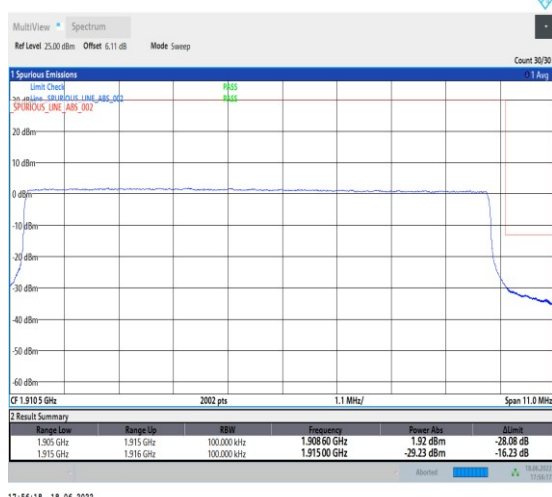
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@51-Ant1-seegraph-PASS-see graph

1-N25--15-10-H-3-DFT-PI2BPSK-Outer_Full-50@
0-Ant1-seegraph-PASS-see graph



17:55:29 18.06.2022



17:56:18 18.06.2022

1-N25--15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-
Ant1-seegraph-PASS-see graph

1-N25--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant
1-seegraph-PASS-see graph



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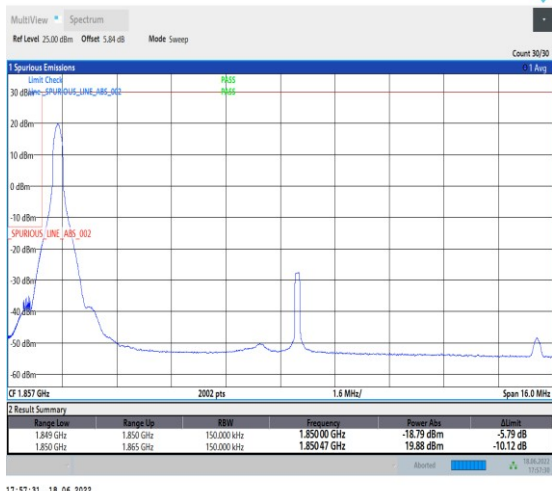
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Page: 80 of 99



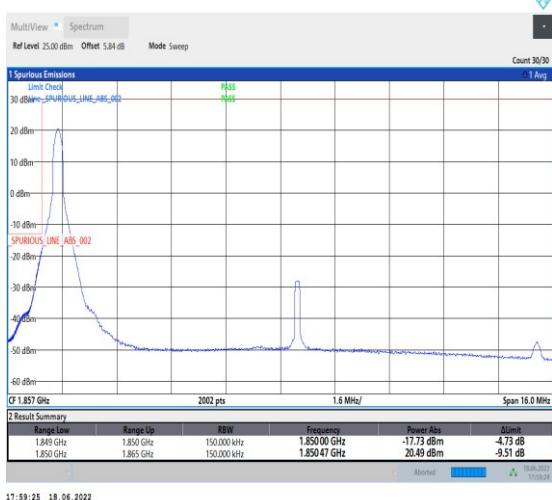
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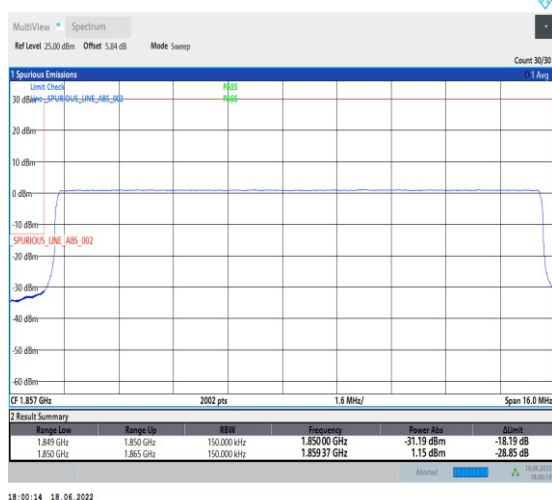
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1-N25--15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant
1-seegraph-PASS-see graph



18:00:14 18.06.2022

1-N25--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant
1-seegraph-PASS-see graph



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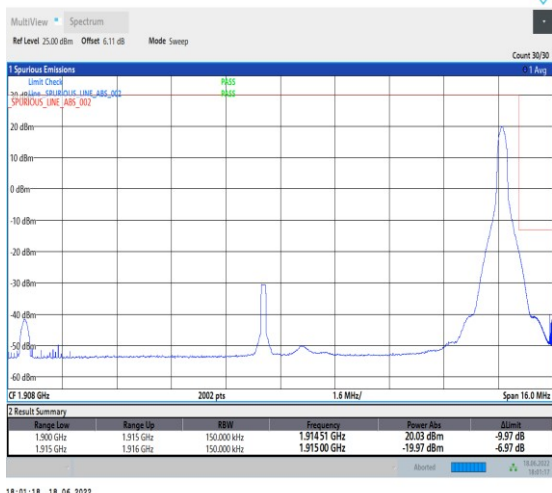
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Page: 81 of 99



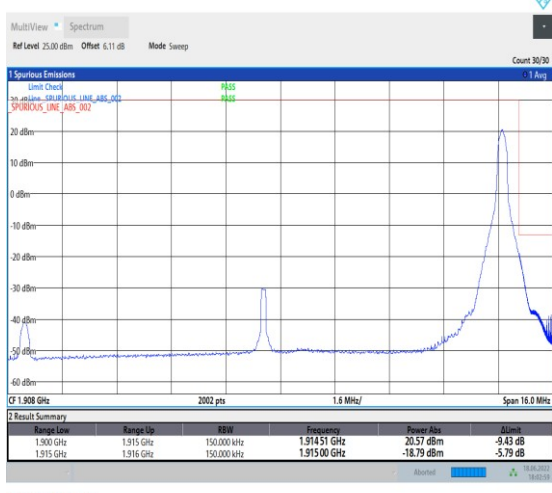
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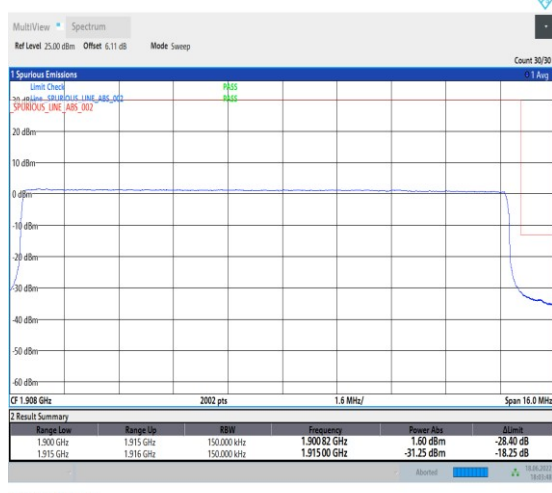
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@78-Ant1-seegraph-PASS-see graph

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0-Ant1-seegraph-PASS-see graph



18:03:00 18.06.2022



18:03:48 18.06.2022

1-N25--15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-
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1-N25--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant
1-seegraph-PASS-see graph



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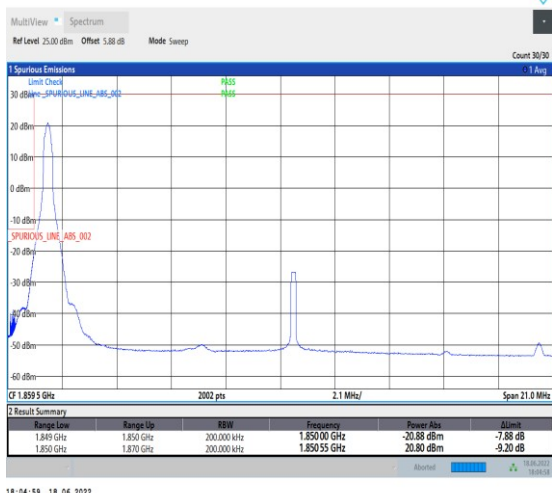
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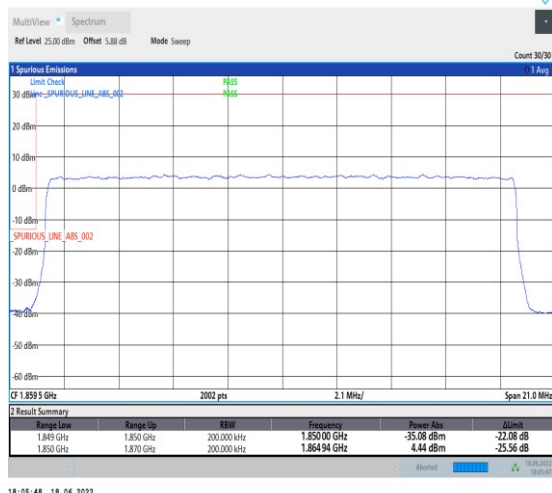
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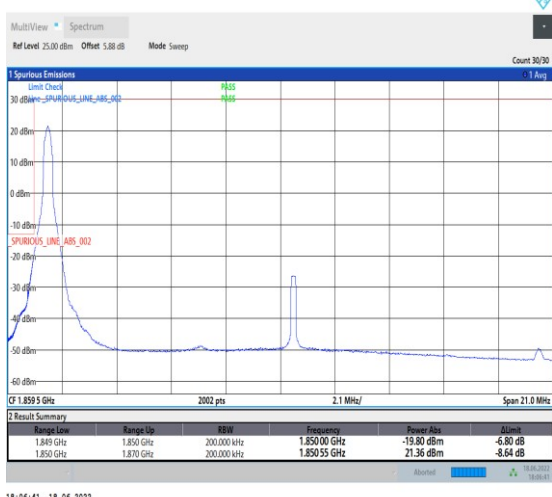
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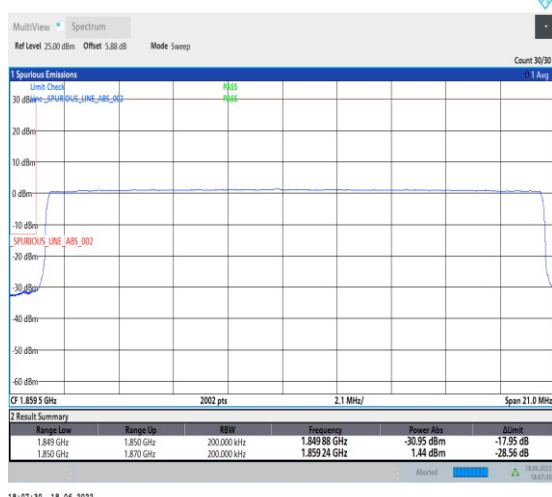
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1-N25--15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph



1-N25--15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant1-seegraph-PASS-see graph



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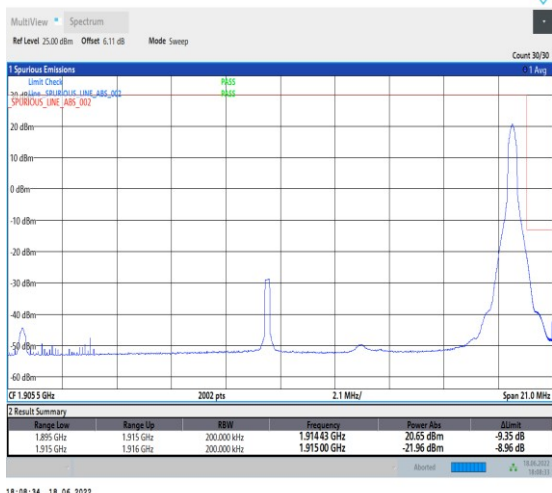
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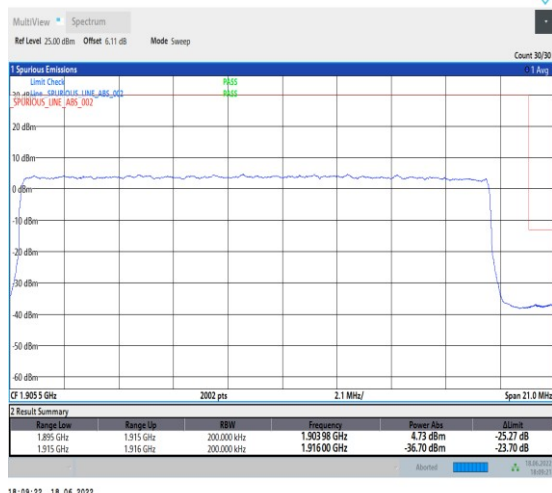
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Rev.: 01

Page: 83 of 99



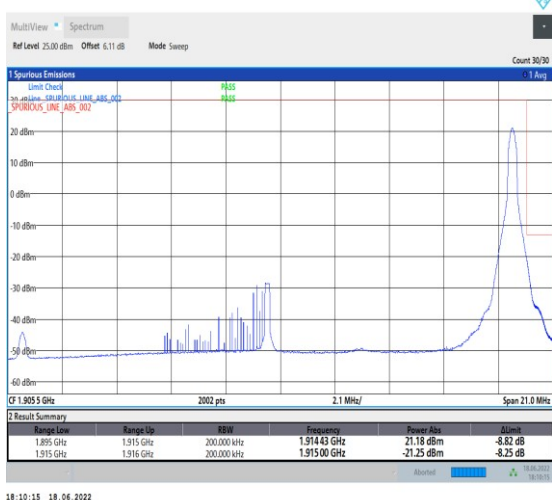
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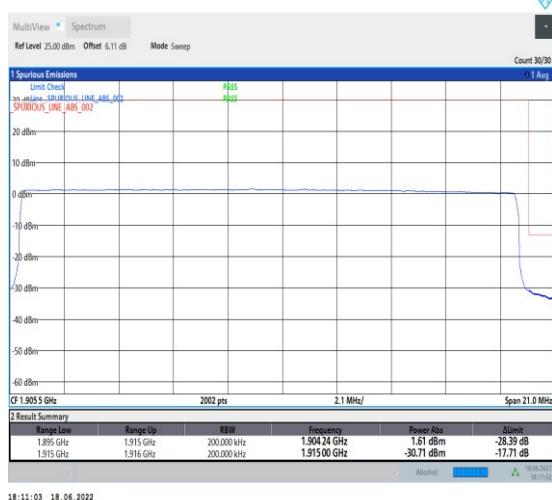
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@105-Ant1-seegraph-PASS-see graph

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@0-Ant1-seegraph-PASS-see graph



18:10:15 18.06.2022



18:11:03 18.06.2022

1-N25--15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105
-Ant1-seegraph-PASS-see graph

1-N25--15-20-H-6-CP-QPSK-Outer_Full-106@0-A
nt1-seegraph-PASS-see graph



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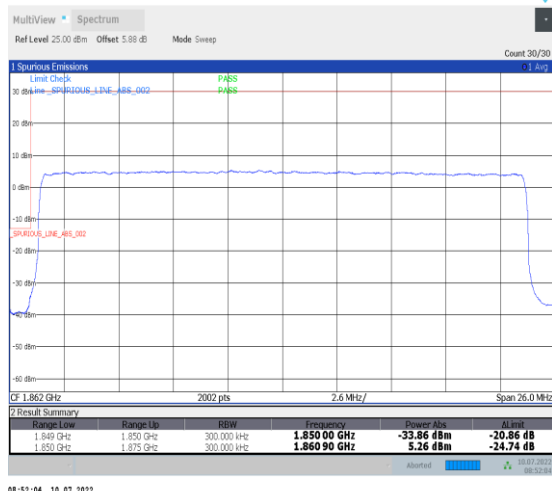
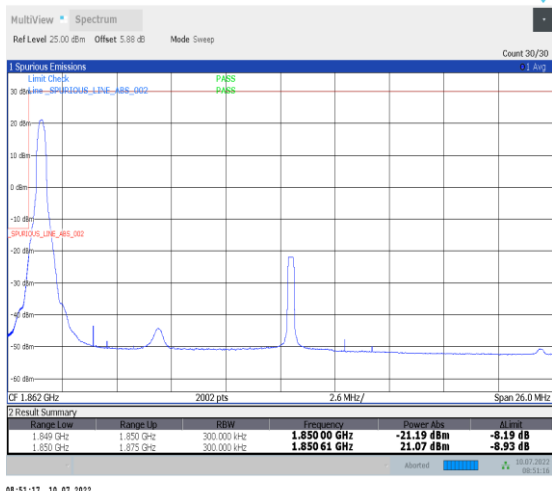
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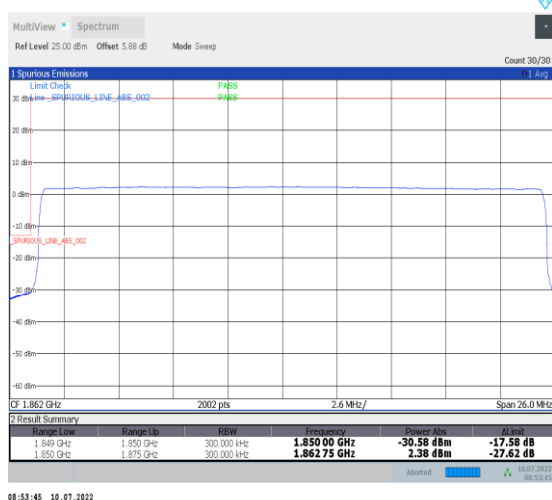
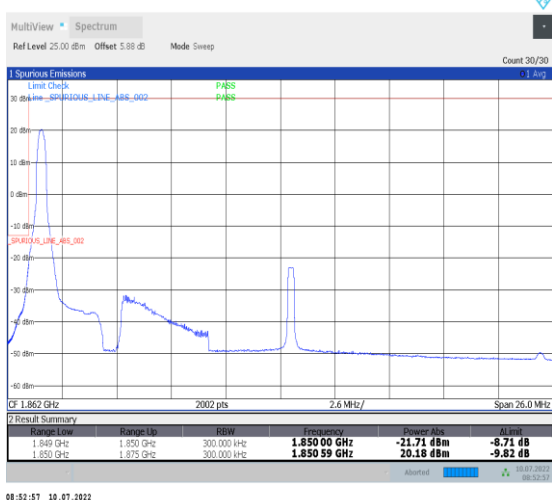
Rev.: 01

Page: 84 of 99



1-N25-PC3-15-25-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph

1-N25-PC3-15-25-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-seegraph-PASS-see graph



1-N25-PC3-15-25-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph

1-N25-PC3-15-25-L-6-CP-QPSK-Outer_Full-133@0-Ant1-seegraph-PASS-see graph



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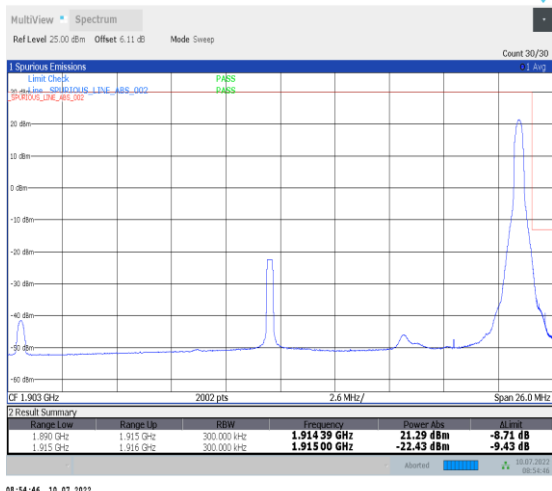
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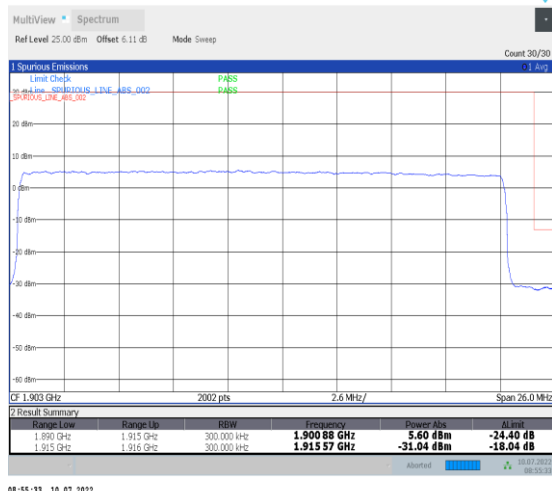
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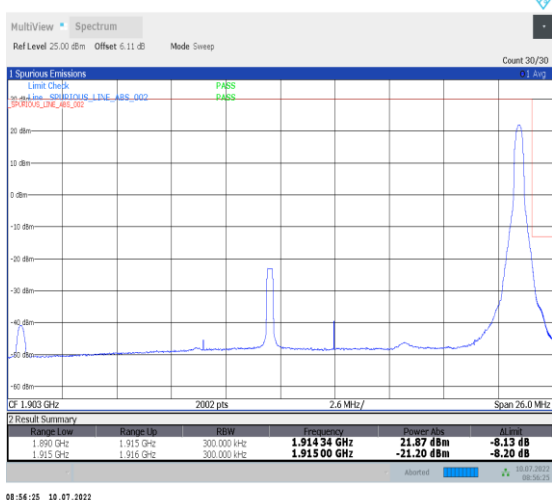
Page: 85 of 99



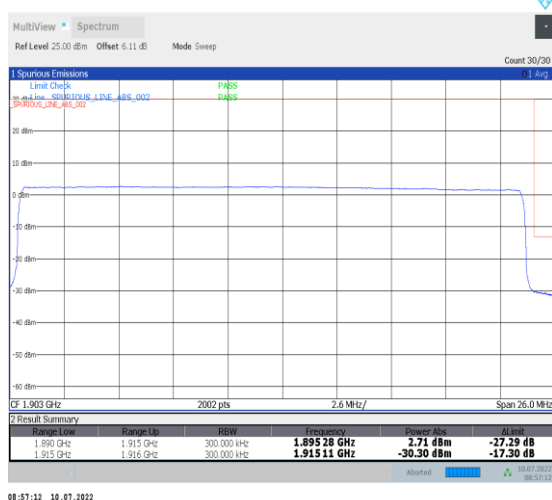
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1-N25-PC3-15-25-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-seegraph-PASS-see graph



1-N25-PC3-15-25-H-6-CP-QPSK-Outer_Full-133@0-Ant1-seegraph-PASS-see graph



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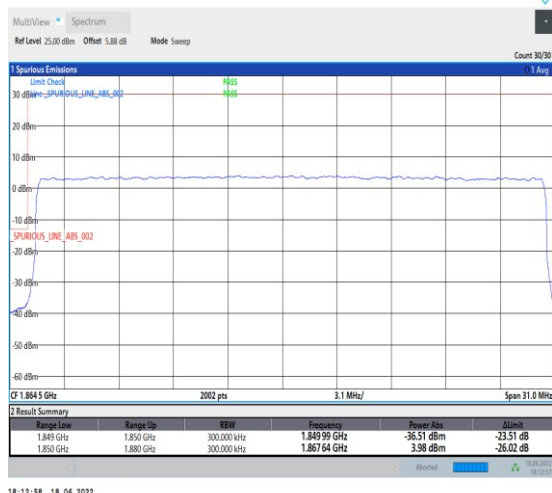
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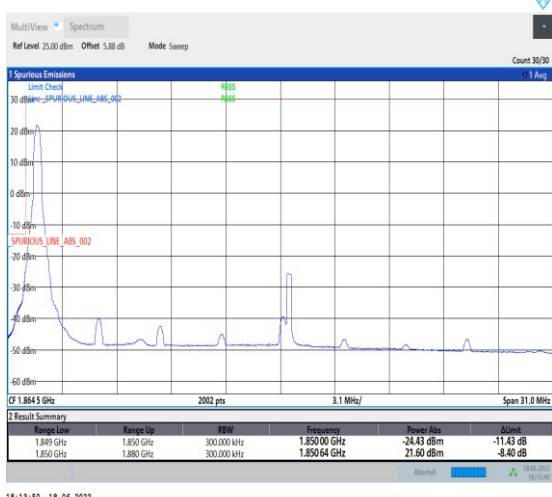
Page: 86 of 99



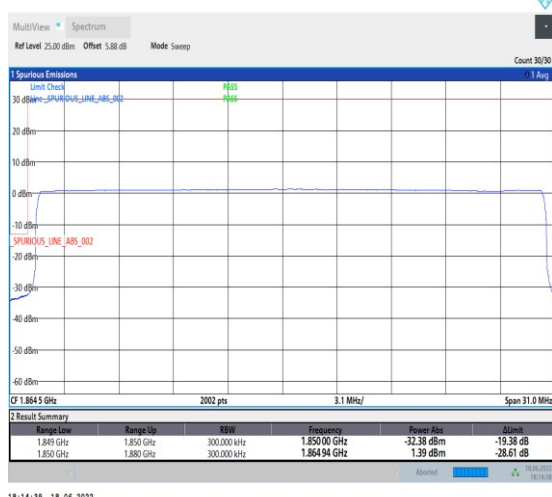
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1-N25--15-30-L-3-DFT-PI2BPSK-Outer_Full-160@0-Ant1-seegraph-PASS-see graph



1-N25--15-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph



1-N25--15-30-L-6-CP-QPSK-Outer_Full-160@0-Ant1-seegraph-PASS-see graph



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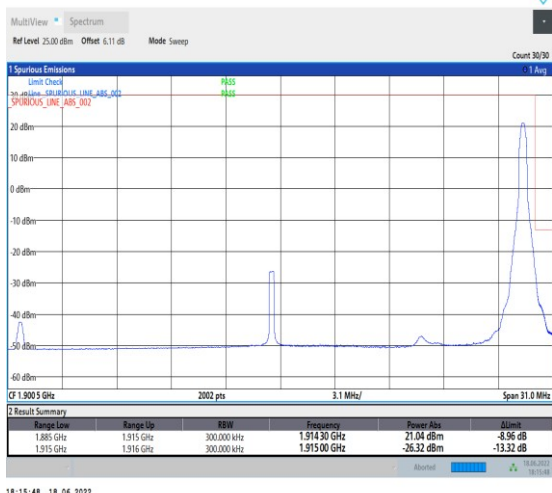
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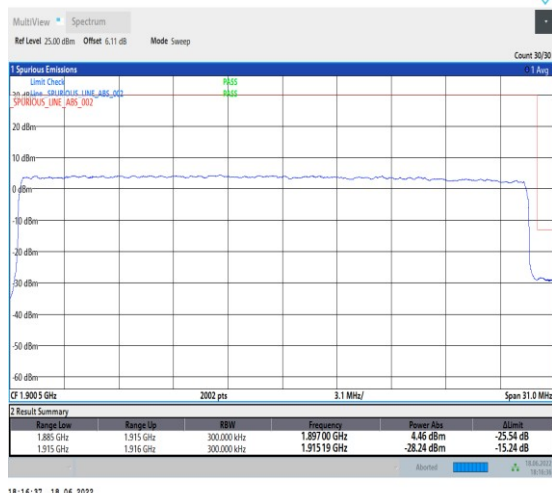
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Rev.: 01

Page: 87 of 99



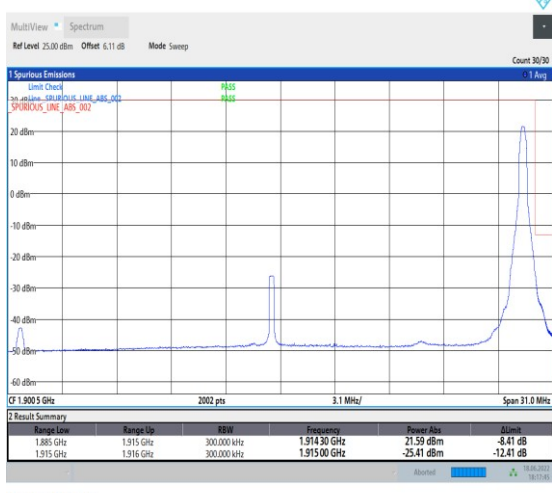
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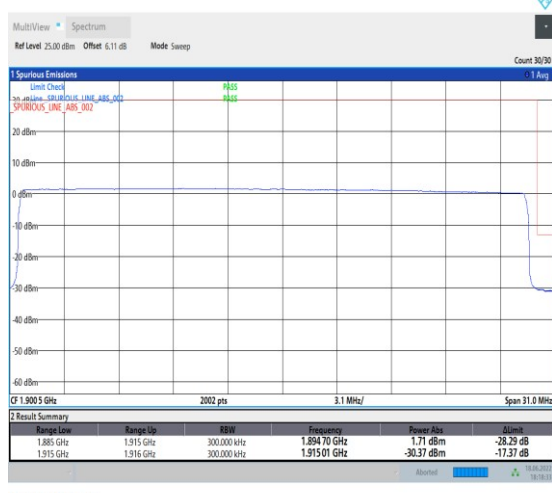
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@159-Ant1-seegraph-PASS-see graph

1-N25--15-30-H-3-DFT-PI2BPSK-Outer_Full-160
@0-Ant1-seegraph-PASS-see graph



18:17:45 18.06.2022



18:18:34 18.06.2022

1-N25--15-30-H-5-CP-QPSK-Edge_1RB_Right-1@159
-Ant1-seegraph-PASS-see graph

1-N25--15-30-H-6-CP-QPSK-Outer_Full-160@0-A
nt1-seegraph-PASS-see graph



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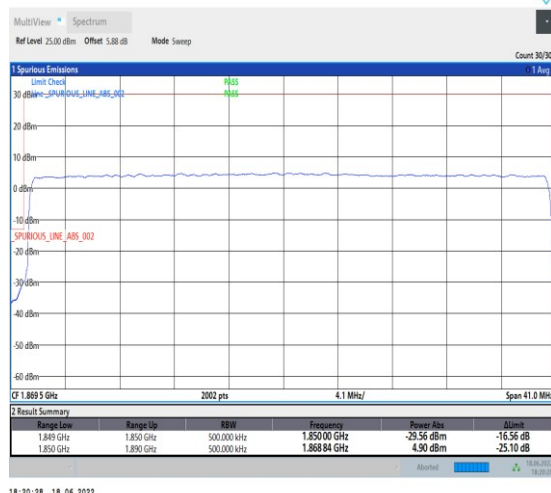
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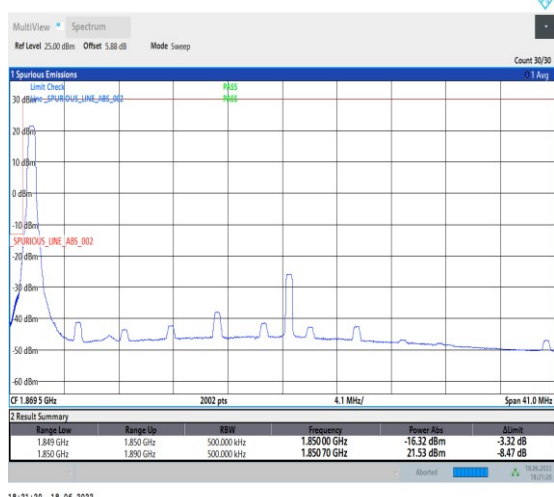
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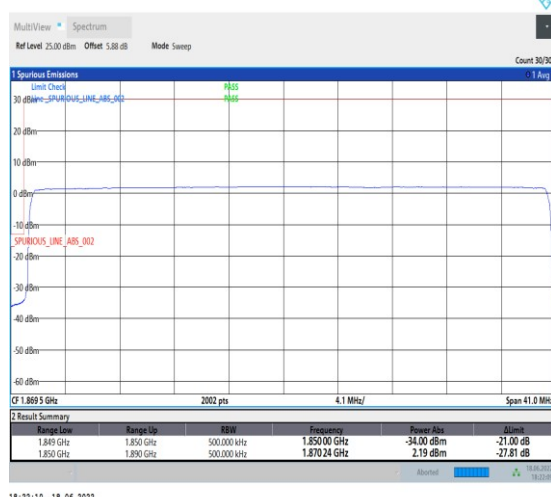
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1-N25--15-40-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-seegraph-PASS-see graph



1-N25--15-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph



1-N25--15-40-L-6-CP-QPSK-Outer_Full-216@0-Ant1-seegraph-PASS-see graph



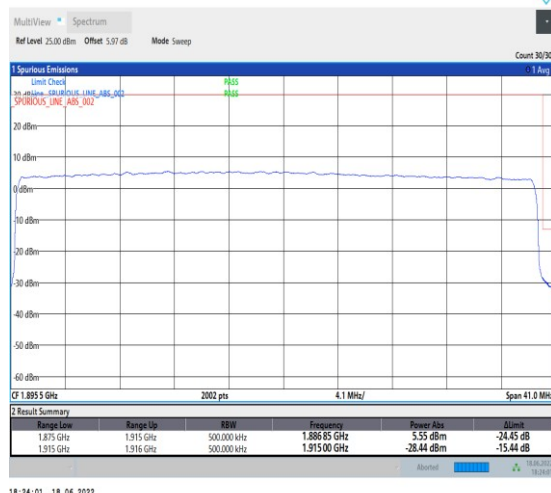
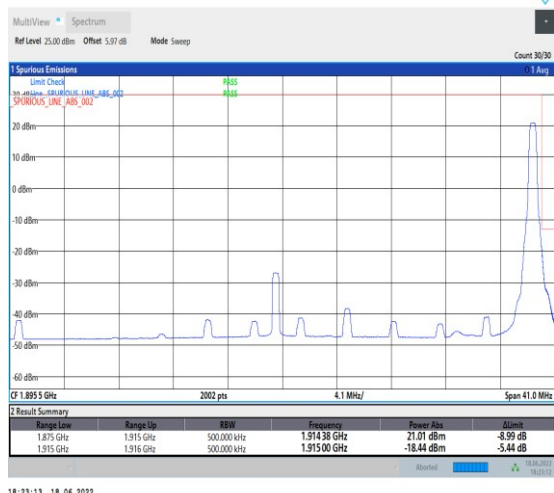
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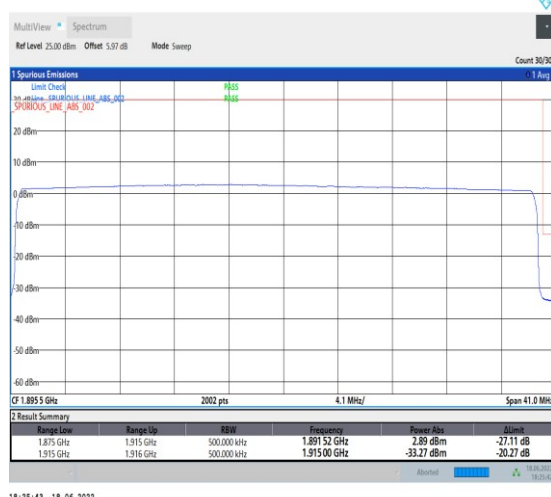
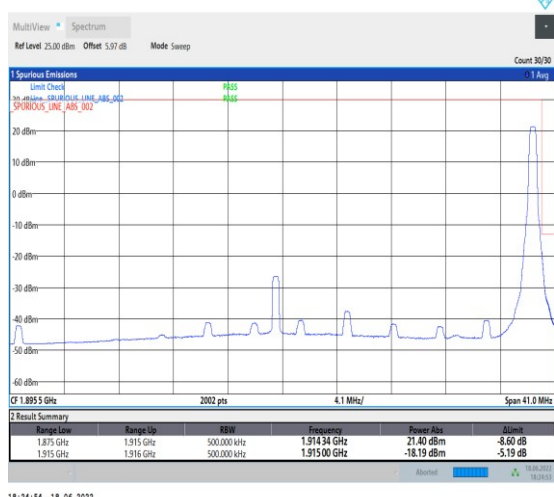
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1-N25--15-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1
@215-Ant1-seegraph-PASS-see graph

1-N25--15-40-H-3-DFT-PI2BPSK-Outer_Full-216
@0-Ant1-seegraph-PASS-see graph



1-N25--15-40-H-5-CP-QPSK-Edge_1RB_Right-1@215
-Ant1-seegraph-PASS-see graph

1-N25--15-40-H-6-CP-QPSK-Outer_Full-216@0-A
nt1-seegraph-PASS-see graph



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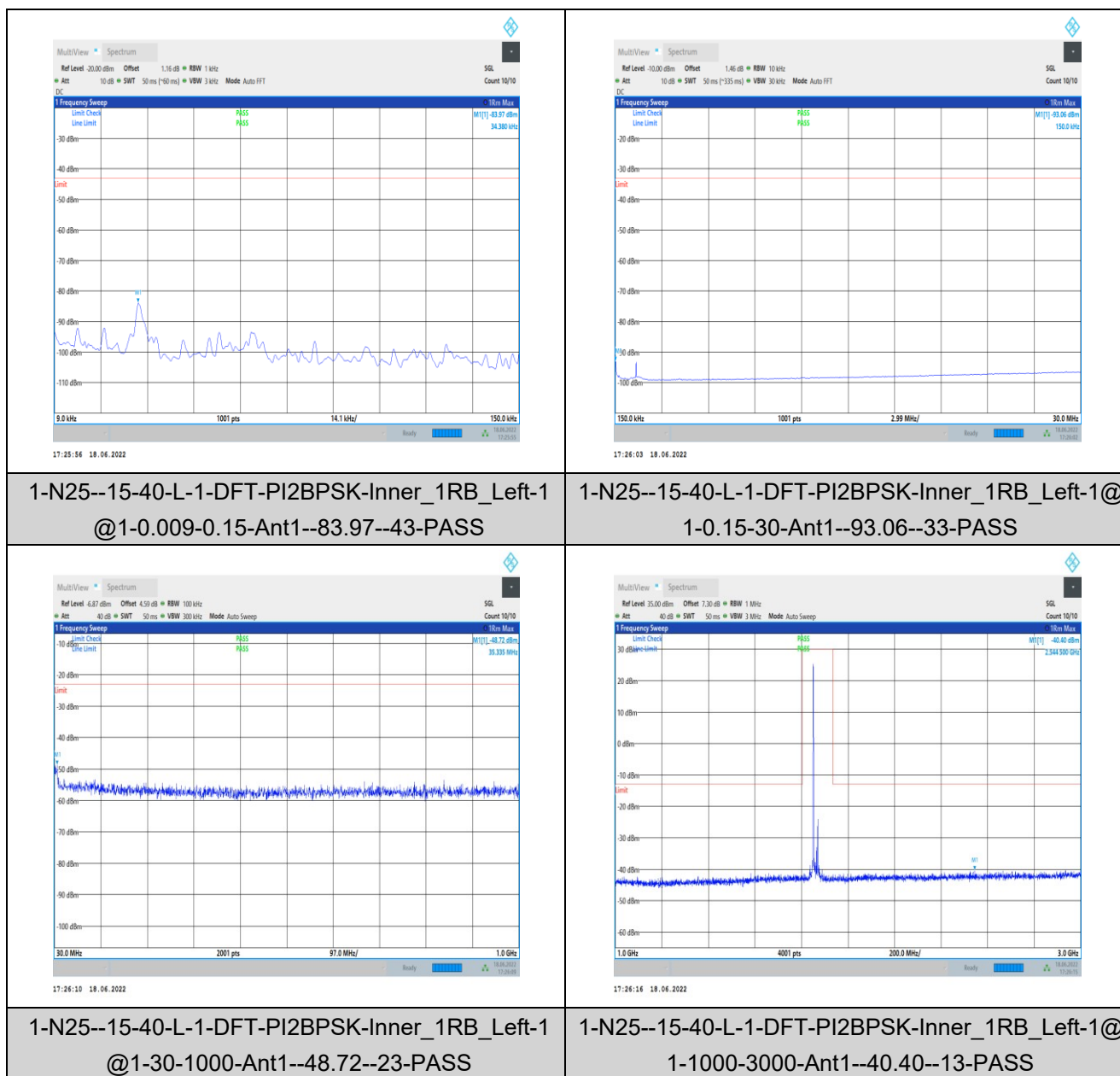
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Conducted Spurious Emission for SA

Test Graphs



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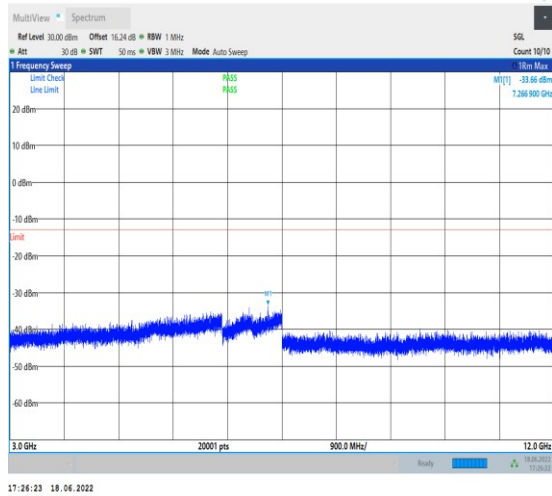
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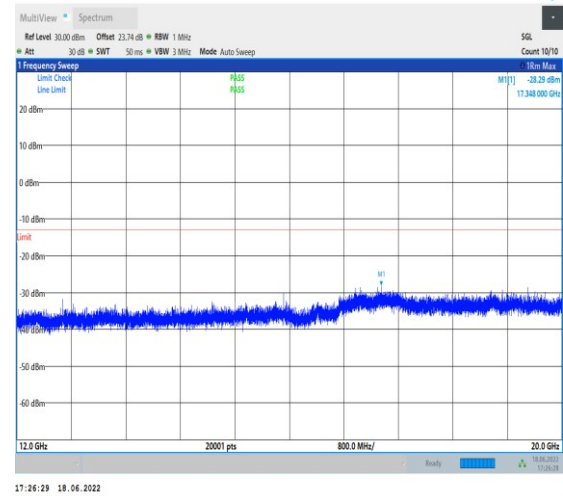
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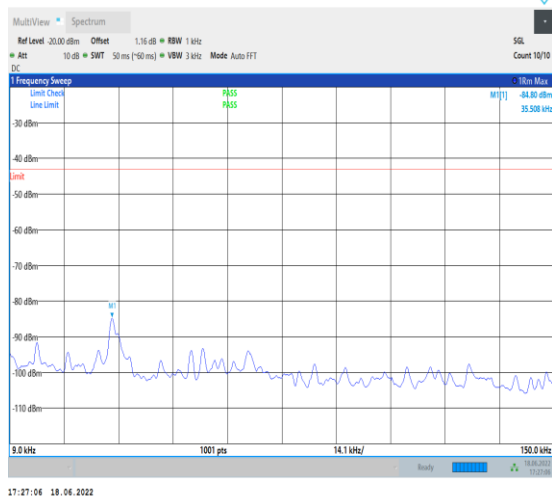
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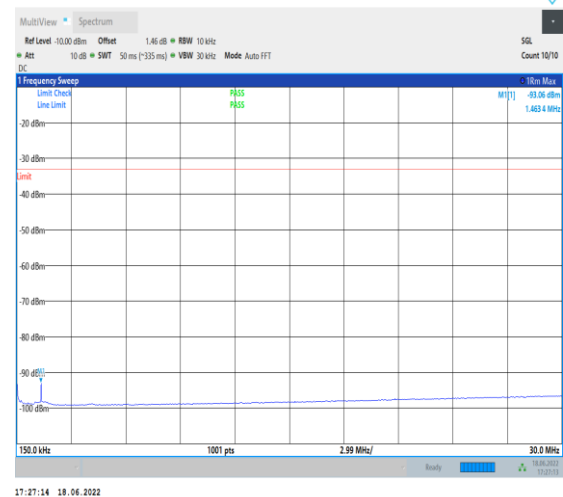
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1-12000-20000-Ant1--28.29--13-PASS



1-N25--15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.009-0.15-Ant1--84.80--43-PASS



1-N25--15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.15-30-Ant1--93.06--33-PASS



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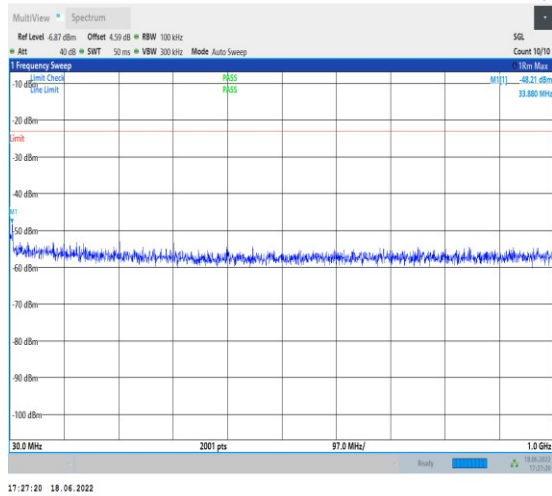
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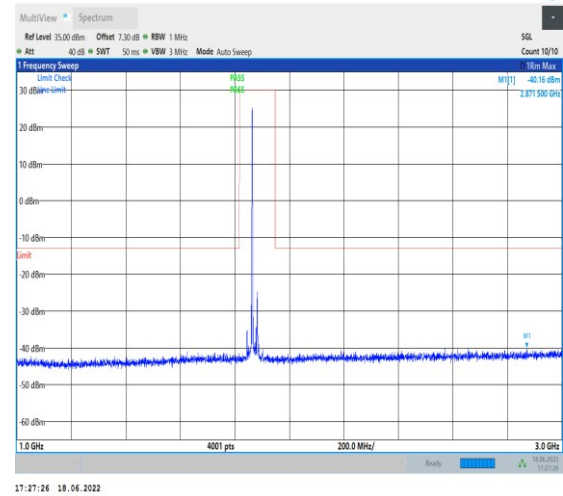
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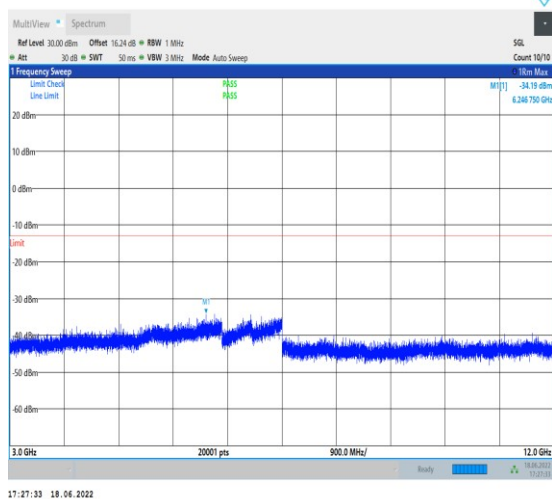
Page: 92 of 99



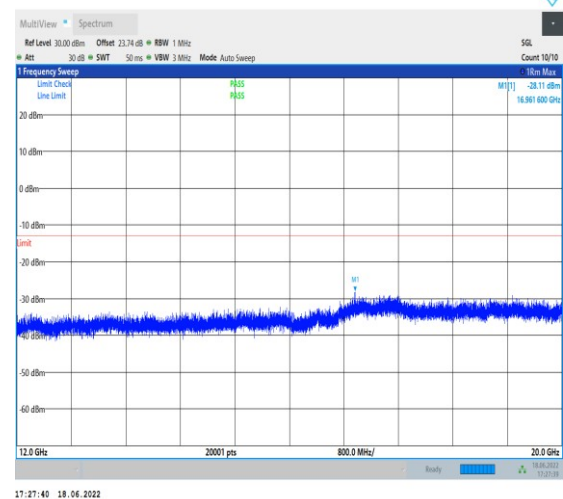
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@1-30-1000-Ant1--48.21--23-PASS



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@1-1000-3000-Ant1--40.16--13-PASS



1-N25--15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant1--34.19--13-PASS



1-N25--15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-12000-20000-Ant1--28.11--13-PASS



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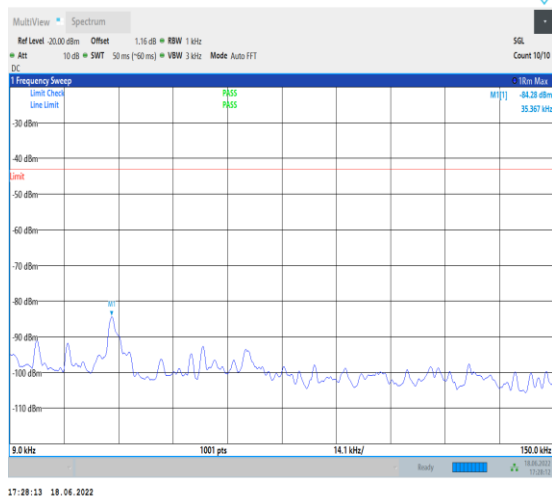
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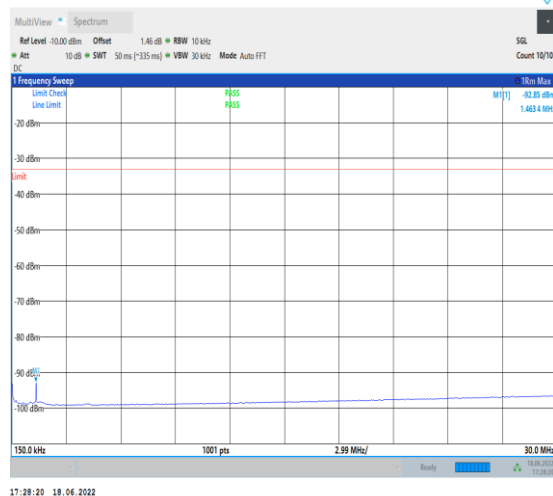
Report No.: SEWA2205000015RG02

Rev.: 01

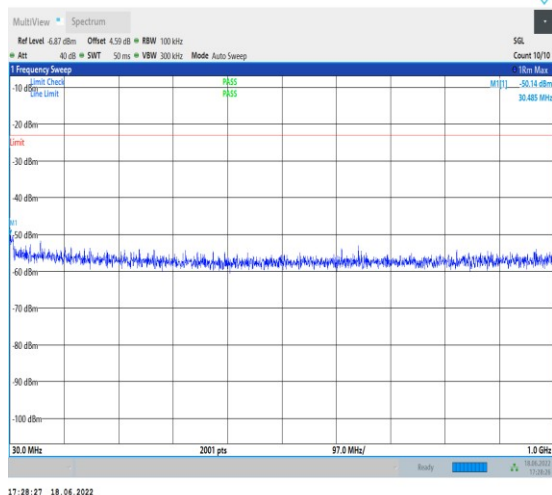
Page: 93 of 99



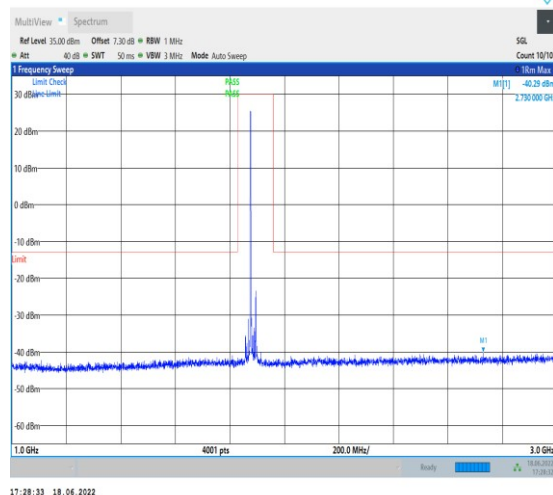
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@1-0.009-0.15-Ant1--84.28--43-PASS



1-N25--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.15-30-Ant1--92.85--33-PASS



1-N25--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-30-1000-Ant1--50.14--23-PASS



1-N25--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-1000-3000-Ant1--40.29--13-PASS



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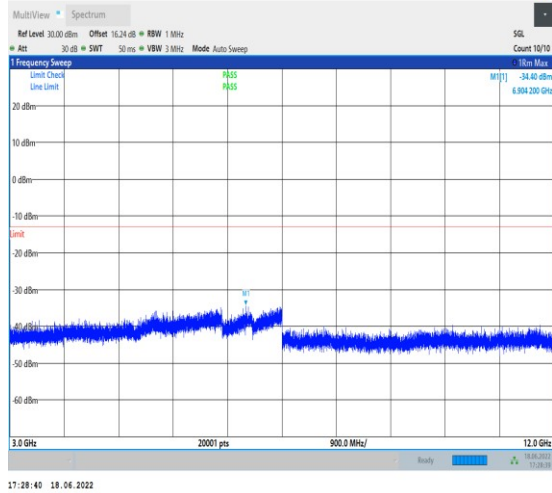
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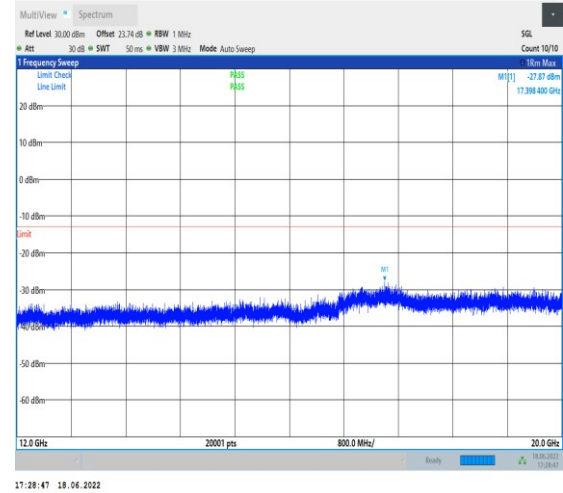
Report No.: SEWA2205000015RG02

Rev.: 01

Page: 94 of 99



1-N25--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant1--34.40--13-PASS



1-N25--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-12000-20000-Ant1--27.87--13-PASS



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Report No.: SEWA2205000015RG02

Rev.: 01

Page: 95 of 99

Field Strength of Spurious Radiation

Test Band = Band25_ 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	3704.1800	49.02	-110.79	-61.77	-13.00	48.77	236	0	Horizontal
2	5556.2700	49.07	-107.43	-58.36	-13.00	45.36	154	179	Horizontal
3	7408.3600	48.32	-102.16	-53.84	-13.00	40.84	125	346	Horizontal
4	9260.4500	45.20	-97.11	-51.91	-13.00	38.91	194	43	Horizontal
5	11112.5400	42.64	-94.06	-51.42	-13.00	38.42	132	194	Horizontal
6	12964.6300	41.73	-92.72	-50.99	-13.00	37.99	201	270	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.1800	50.01	-110.79	-60.78	-13.00	47.78	163	29	Vertical
2	5556.2700	48.63	-107.43	-58.80	-13.00	45.80	254	154	Vertical
3	7408.3600	48.09	-102.16	-54.07	-13.00	41.07	196	346	Vertical
4	9260.4500	45.57	-97.11	-51.54	-13.00	38.54	132	23	Vertical
5	11112.5400	42.29	-94.06	-51.77	-13.00	38.77	166	120	Vertical
6	12964.6300	41.55	-92.72	-51.17	-13.00	38.17	170	134	Vertical



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Report No.: SEWA2205000015RG02
 Rev.: 01
 Page: 96 of 99

Test Band = Band25_ 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	3729.1800	50.01	-110.81	-60.80	-13.00	47.80	125	104	Horizontal
2	5593.7700	48.81	-107.33	-58.52	-13.00	45.52	164	346	Horizontal
3	7458.3600	47.62	-102.05	-54.43	-13.00	41.43	133	330	Horizontal
4	9322.9500	45.57	-96.96	-51.39	-13.00	38.39	235	346	Horizontal
5	11187.5400	41.71	-93.61	-51.90	-13.00	38.90	148	1	Horizontal
6	13052.1300	40.60	-92.56	-51.96	-13.00	38.96	191	29	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.1800	49.86	-110.81	-60.95	-13.00	47.95	184	74	Vertical
2	5593.7700	48.33	-107.33	-59.00	-13.00	46.00	265	42	Vertical
3	7458.3600	49.53	-102.05	-52.52	-13.00	39.52	164	356	Vertical
4	9322.9500	45.09	-96.96	-51.87	-13.00	38.87	130	148	Vertical
5	11187.5400	43.06	-93.61	-50.55	-13.00	37.55	236	196	Vertical
6	13052.1300	40.84	-92.56	-51.72	-13.00	38.72	251	256	Vertical



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Report No.: SEWA2205000015RG02

Rev.: 01

Page: 97 of 99

Test Band = Band25_ 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	3754.1800	49.17	-110.82	-61.65	-13.00	48.65	154	15	Horizontal
2	5631.2700	48.35	-107.12	-58.77	-13.00	45.77	195	236	Horizontal
3	7508.3600	47.48	-101.95	-54.47	-13.00	41.47	146	1	Horizontal
4	9385.4500	44.26	-96.67	-52.41	-13.00	39.41	172	238	Horizontal
5	11262.5400	41.05	-93.56	-52.51	-13.00	39.51	230	6	Horizontal
6	13139.6300	39.86	-92.45	-52.59	-13.00	39.59	131	103	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3754.1800	49.37	-110.82	-61.45	-13.00	48.45	198	285	Vertical
2	5631.2700	49.87	-107.12	-57.25	-13.00	44.25	146	125	Vertical
3	7508.3600	48.03	-101.95	-53.92	-13.00	40.92	172	73	Vertical
4	9385.4500	43.63	-96.67	-53.04	-13.00	40.04	163	7	Vertical
5	11262.5400	42.80	-93.56	-50.76	-13.00	37.76	236	2	Vertical
6	13139.6300	39.83	-92.45	-52.62	-13.00	39.62	251	236	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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Report No.: SEWA2205000015RG02

Rev.: 01

Page: 98 of 99

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
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	8.700000	0.004622	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.900000	0.002603	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	7.200000	0.003825	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VH	NT	9.700000	0.005153	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VN	NT	-8.300000	-0.004409	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VL	NT	10.500000	0.005578	PASS



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Rev.: 01

Page: 99 of 99

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	10.600000	0.005631	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	6.900000	0.003665	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	7.100000	0.003772	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	8.200000	0.004356	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	8.200000	0.004356	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	6.200000	0.003293	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	8.800000	0.004675	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	4.300000	0.002284	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	5.000000	0.002656	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-30	2.700000	0.001434	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-20	-1.400000	-0.000744	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-10	2.000000	0.001062	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	0	4.200000	0.002231	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	10	4.700000	0.002497	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	20	6.800000	0.003612	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	30	6.500000	0.003453	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	40	5.500000	0.002922	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	50	6.500000	0.003453	PASS

The End



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