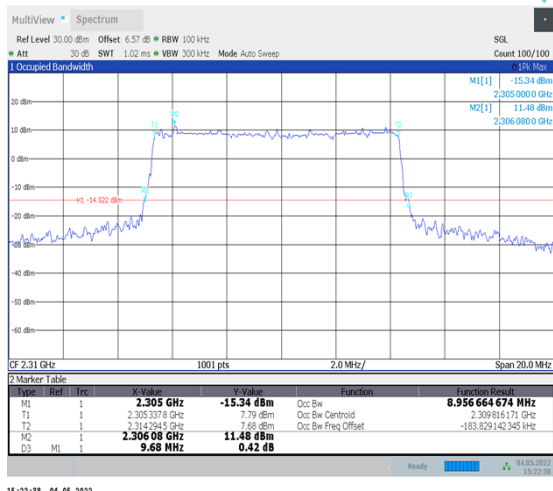
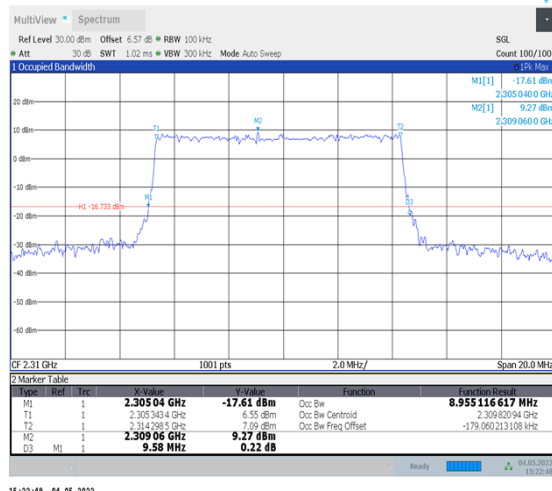
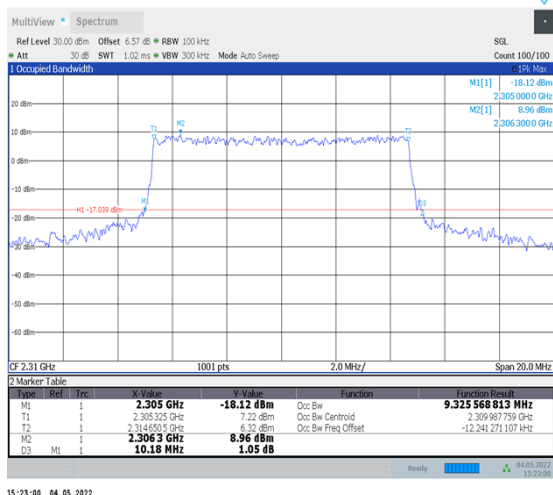




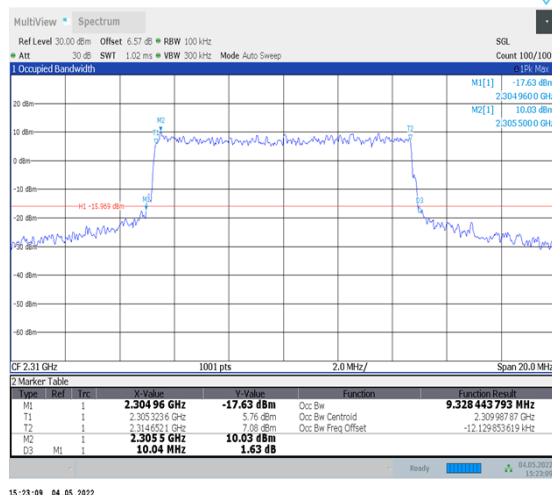
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1-N30--15-10-H-5-DFT-256QAM-Outer_Full-50@0-
Ant1-8.955-9.580-≤10-PASS



1-N30--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-
9.326-10.180-≤10-PASS



1-N30--15-10-H-7-CP-16QAM-Outer_Full-52@0-
Ant1-9.328-10.040≤10-PASS



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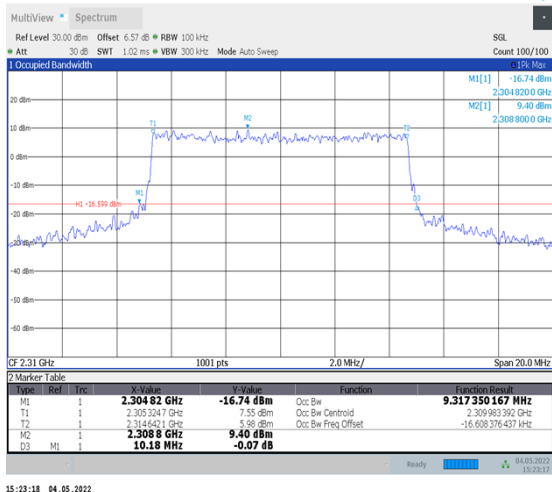
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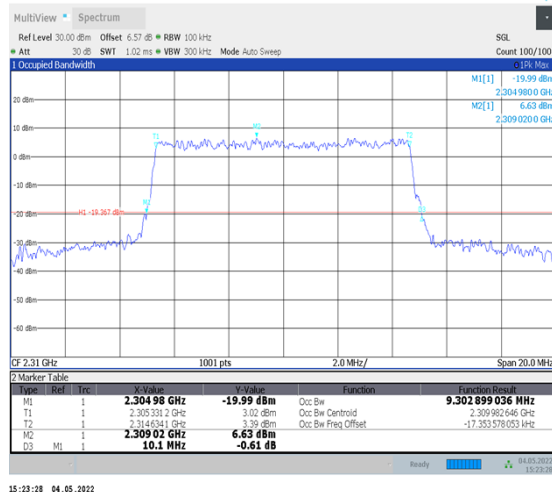
Report No.: SEWA2204000008RG02

Rev.: 01

Page: 30 of 46



1-N30--15-10-H-8-CP-64QAM-Outer_Full-52@0-
Ant1-9.317-10.180-≤10-PASS



1-N30--15-10-H-9-CP-256QAM-Outer_Full-52@0-
Ant1-9.303-10.100-≤10-PASS



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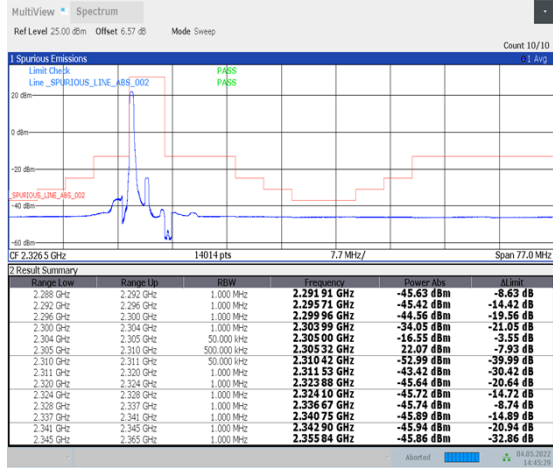
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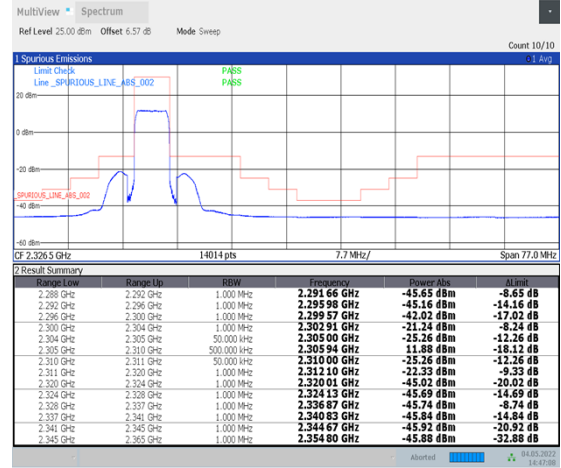
Band Edge for SA

Test Graphs



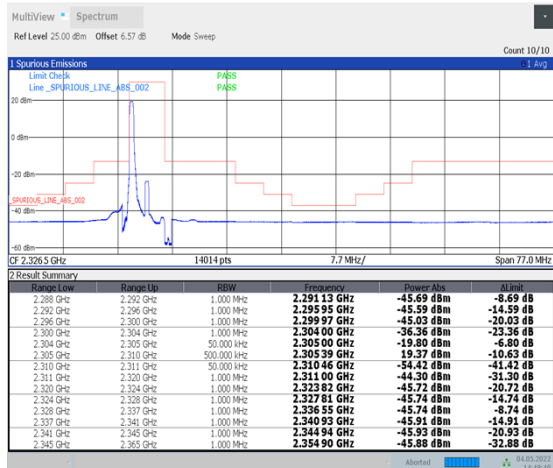
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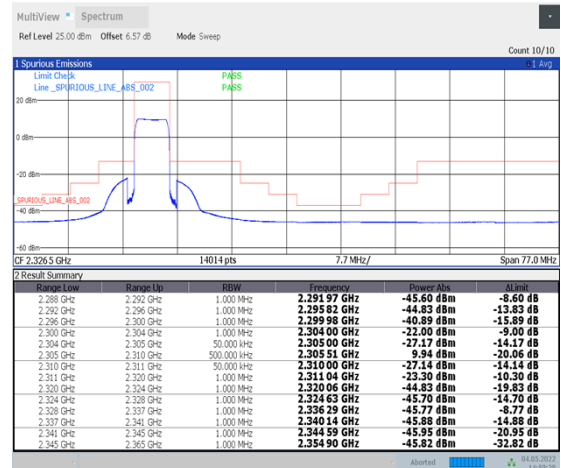
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1-N30--15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



14:50:29 04.05.2022

1-N30--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph

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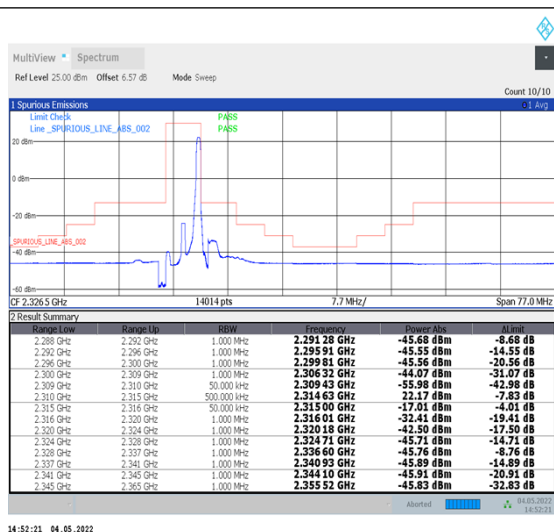
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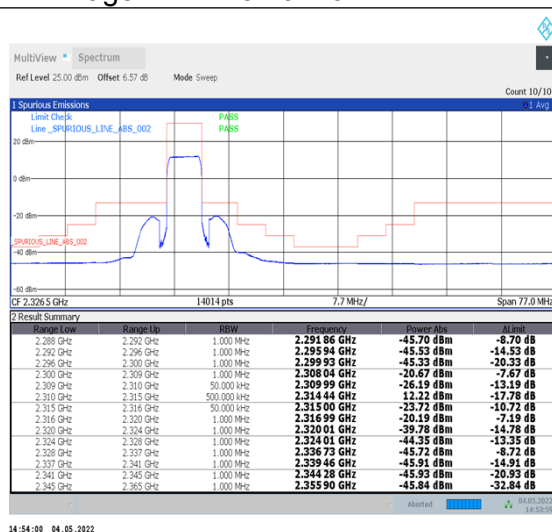
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Rev.: 01

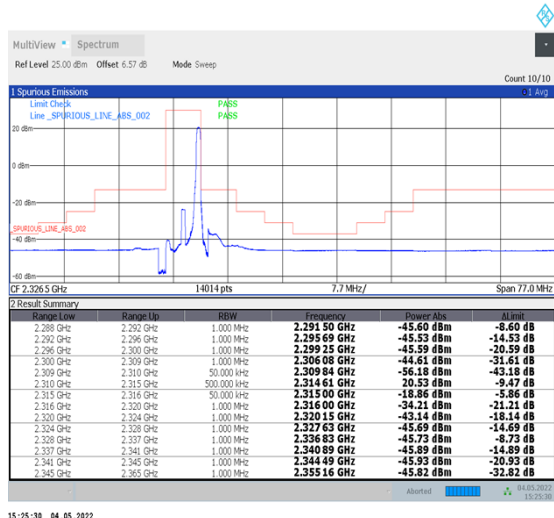
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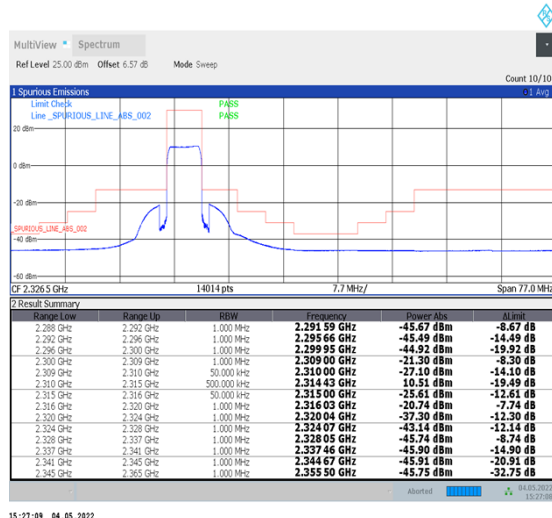
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1-N30--15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-PASS-see graph



1-N30--15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant1-PASS-see graph

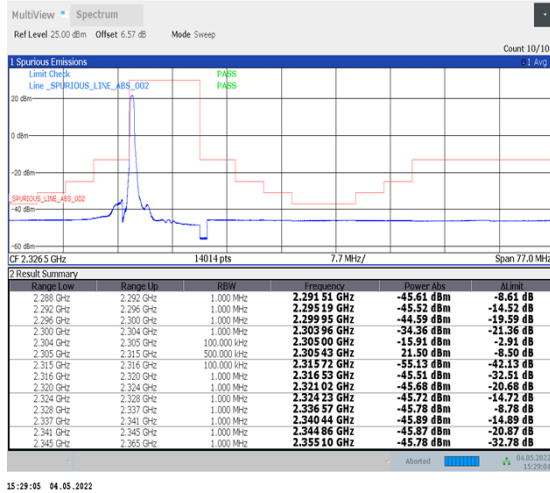


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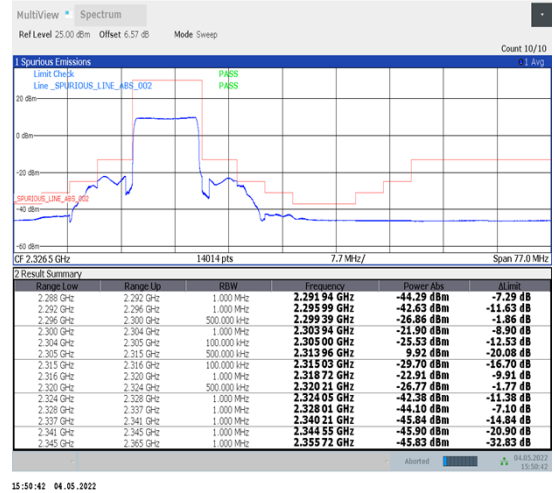
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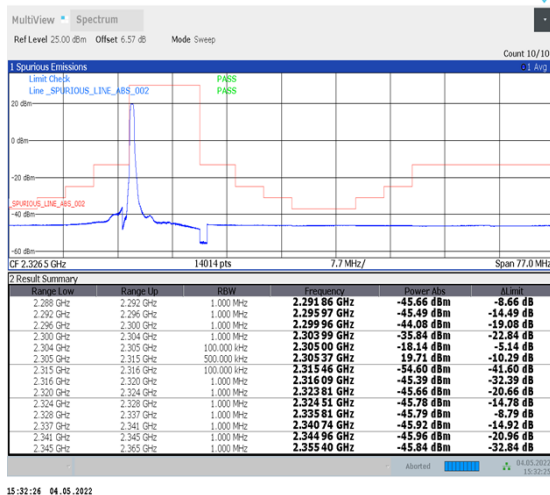
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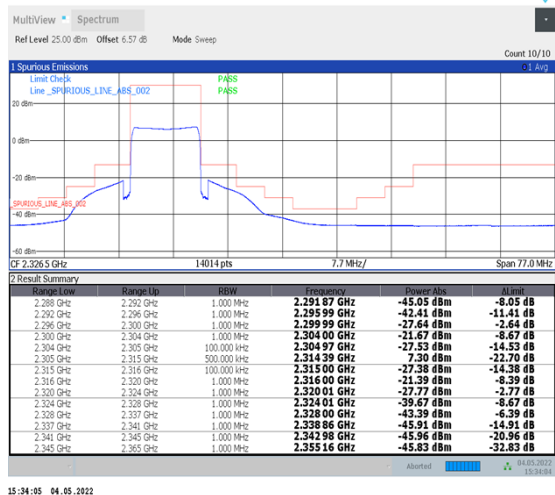
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1-N30--15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-PASS-see graph



1-N30--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



1-N30--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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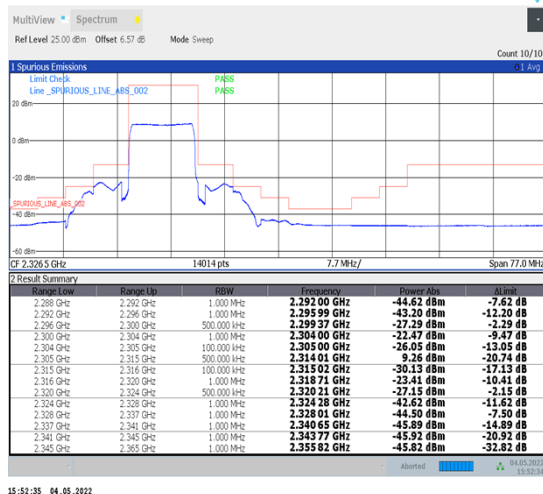
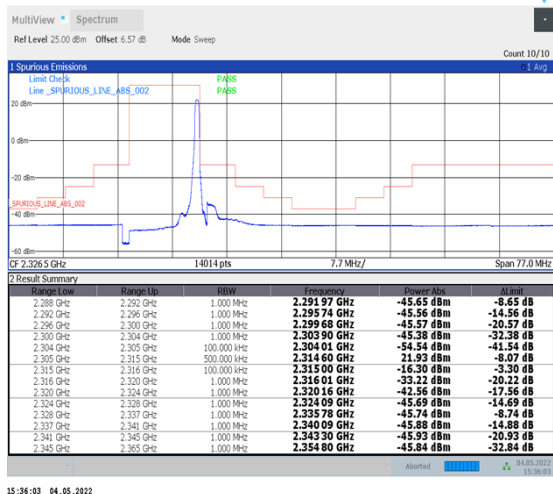
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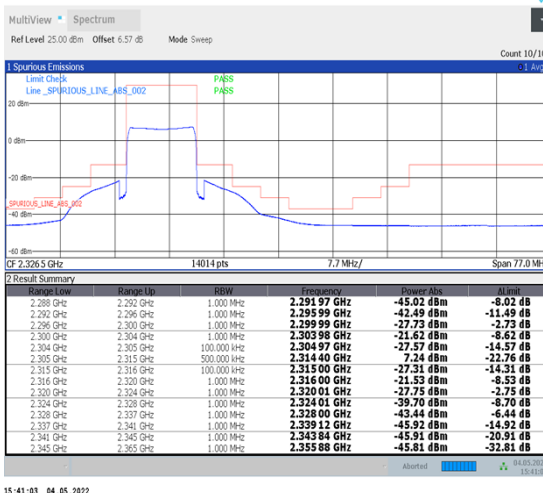
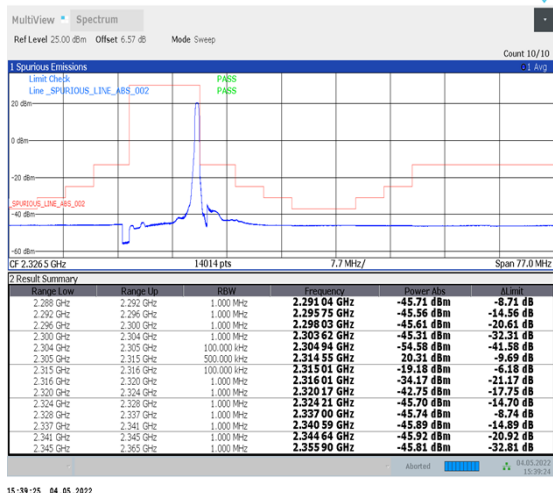
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Page: 34 of 46



1-N30--15-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@51-Ant1-PASS-see graph

1-N30--15-10-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-PASS-see graph



1-N30--15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant1-PASS-see graph

1-N30--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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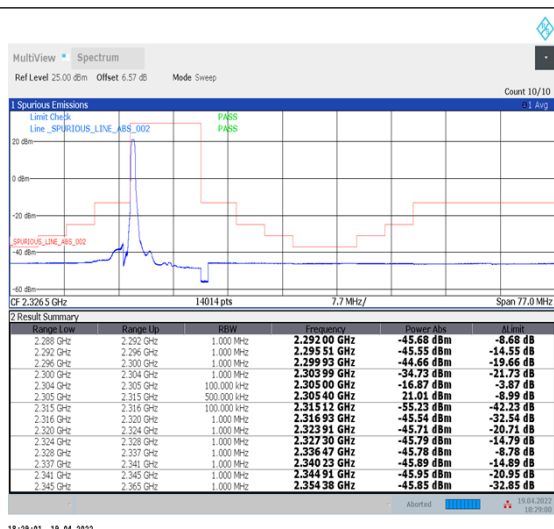
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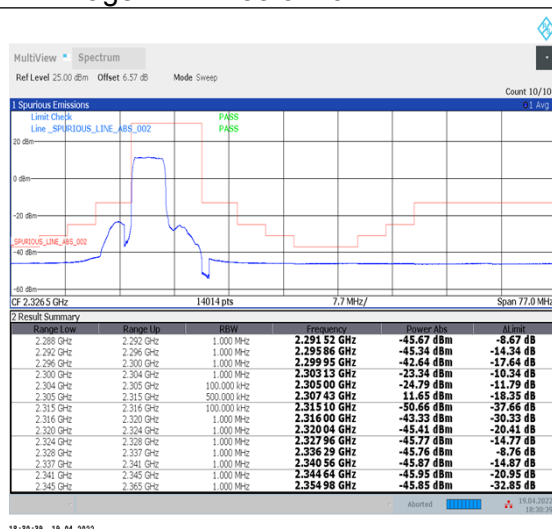
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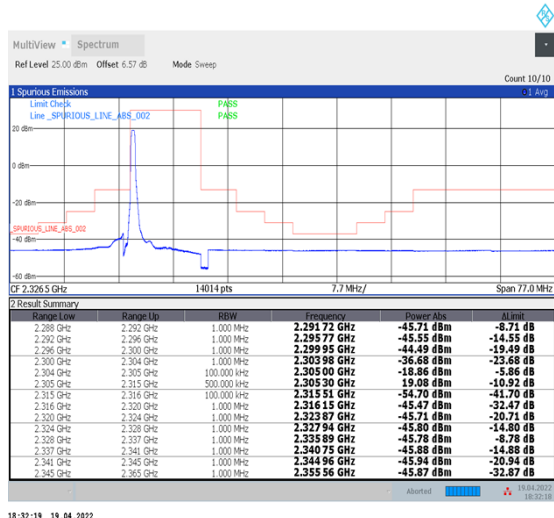
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Rev.: 01
Page: 35 of 46



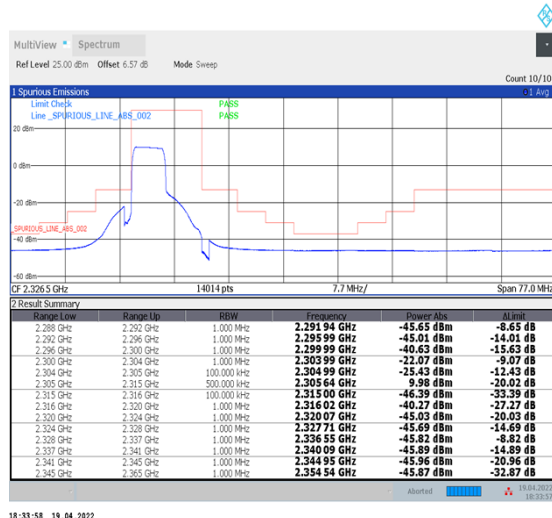
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1-N30--30-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



1-N30--30-10-L-6-CP-QPSK-Outer_Full-24@0-Ant1-PASS-see graph



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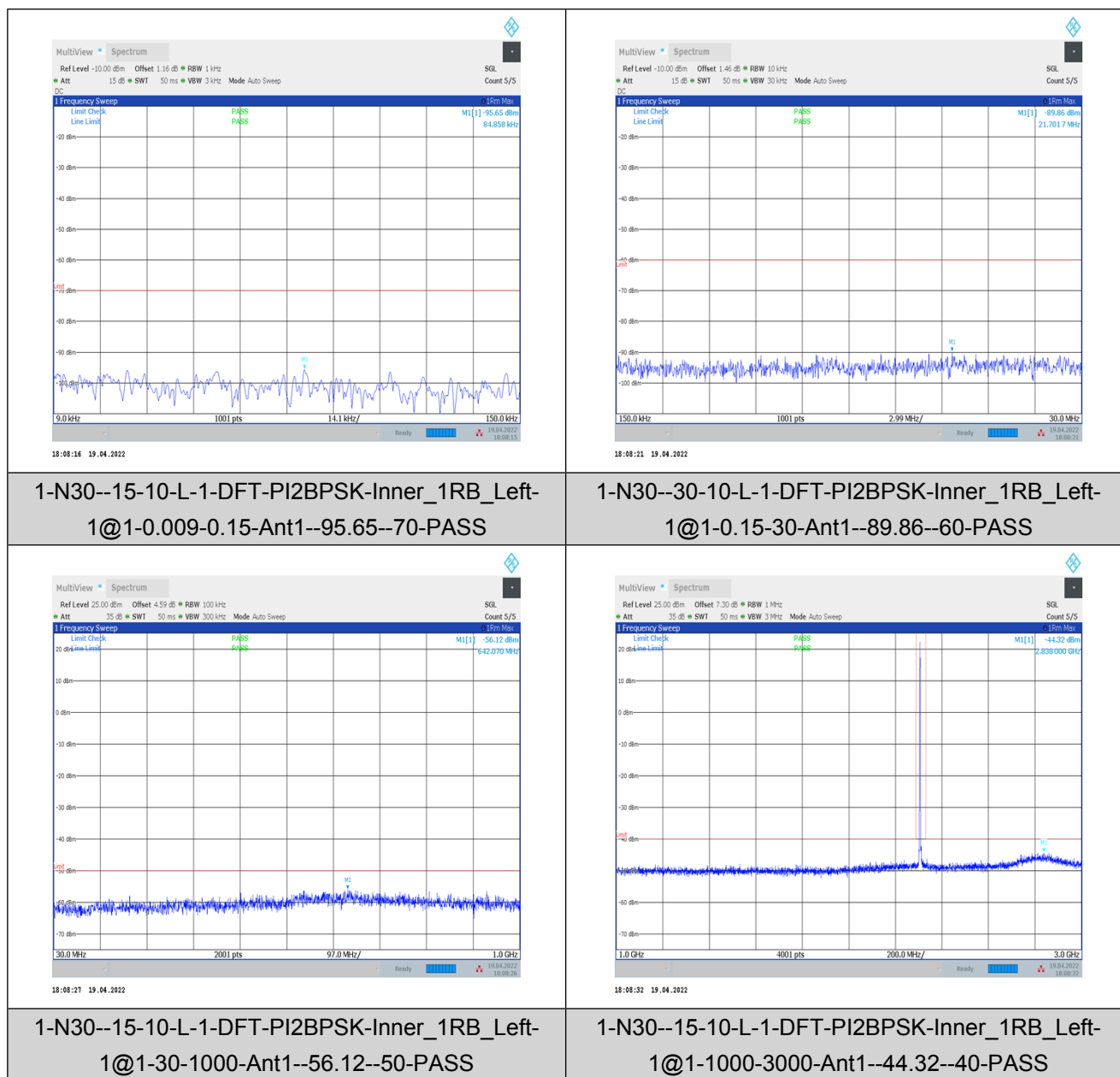
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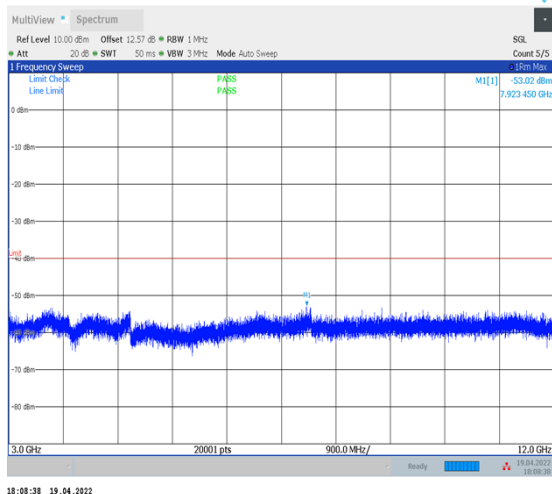
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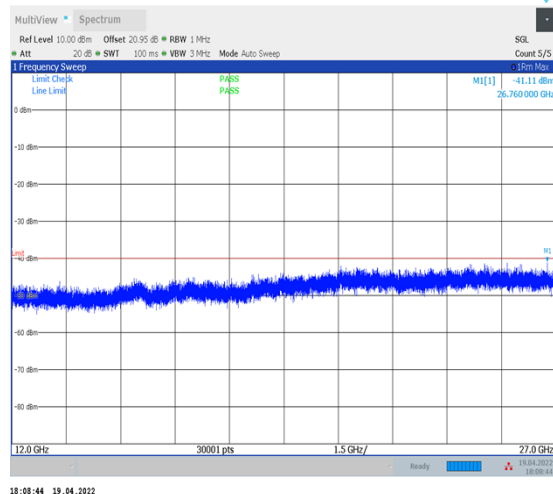
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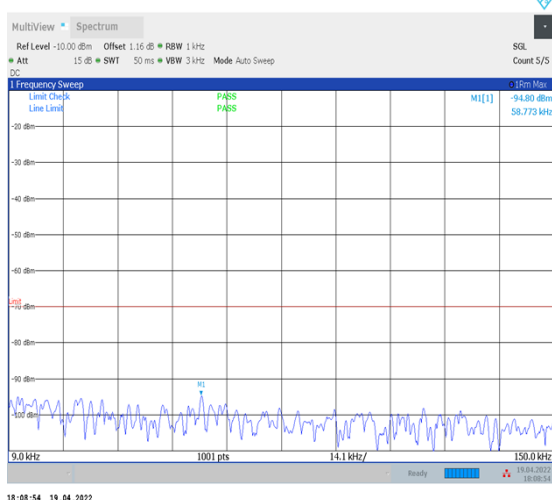
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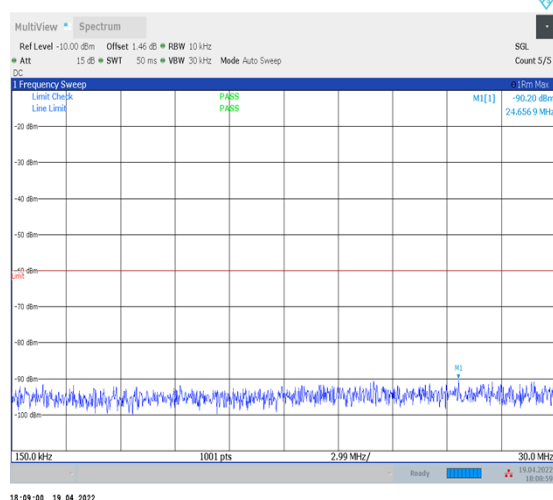
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1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--94.80--70-PASS



1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--90.20--60-PASS



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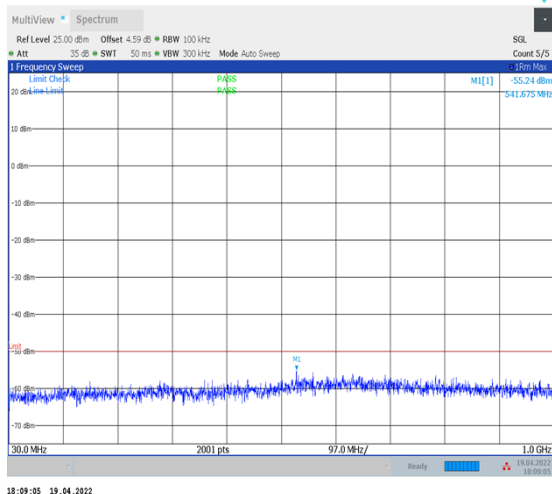
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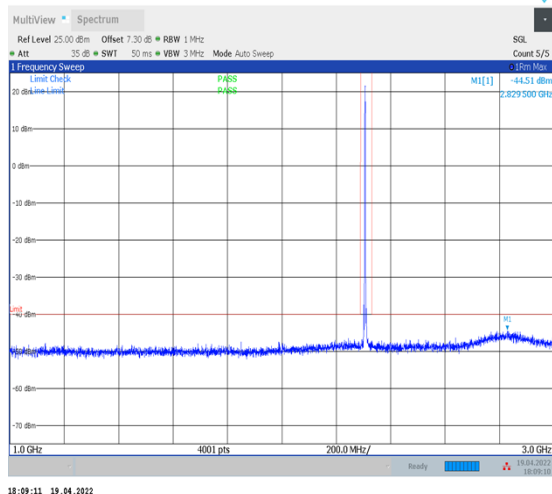
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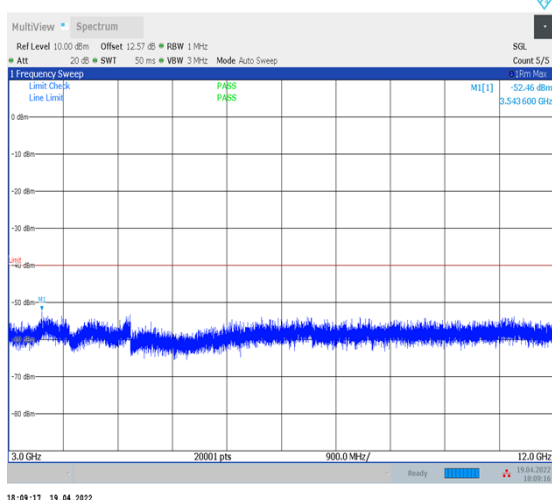
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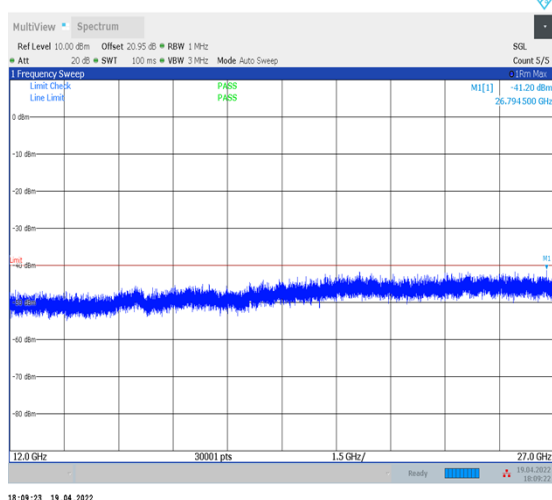
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1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1--52.46--40-PASS



1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-27000-Ant1--41.20--40-PASS



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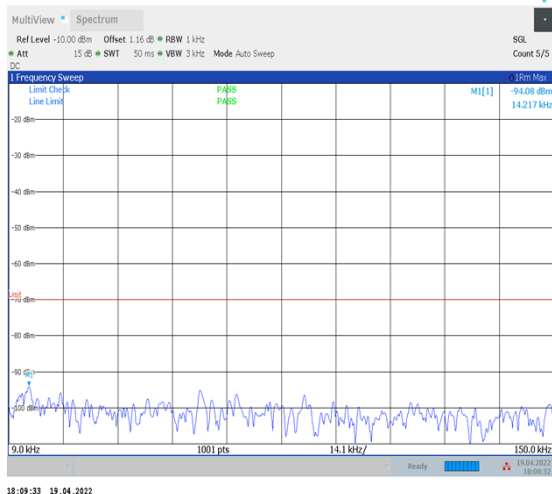
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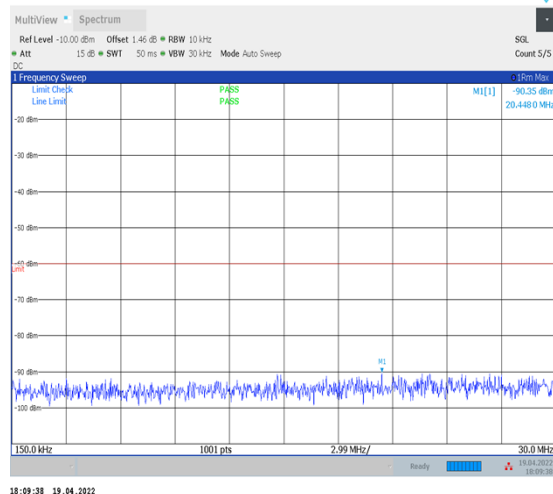
Report No.: SEWA2204000008RG02

Rev.: 01

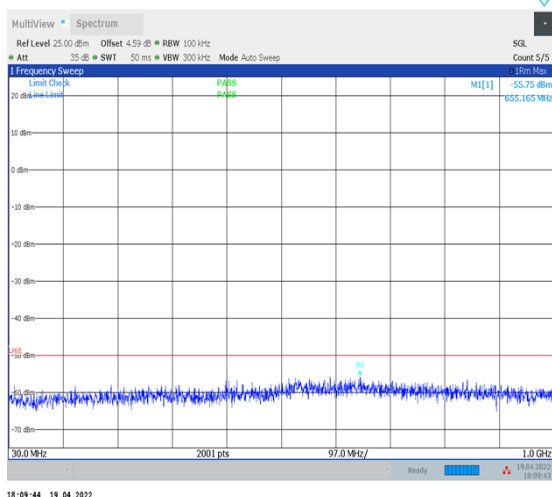
Page: 39 of 46



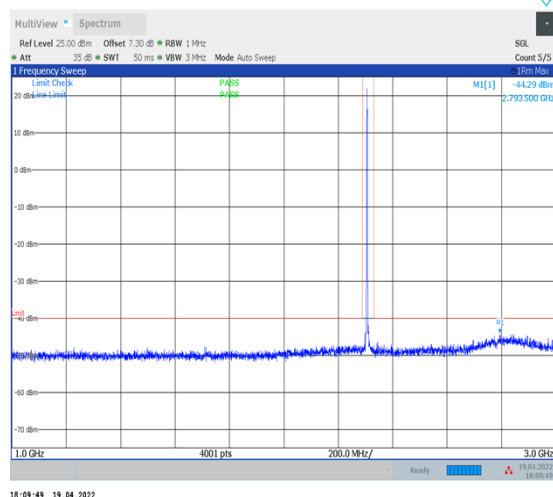
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1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--90.35--60-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--55.75--50-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--44.29--40-PASS



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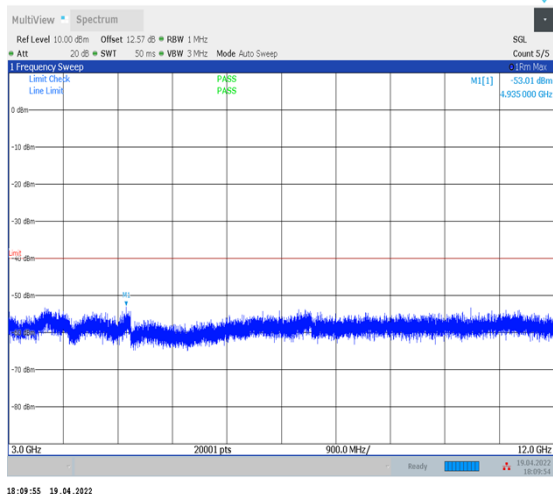
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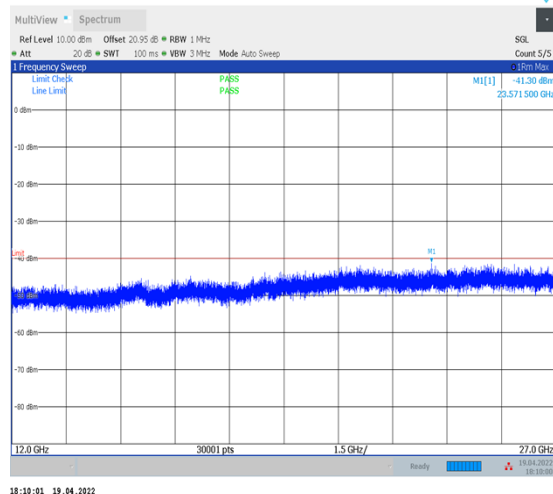
Report No.: SEWA2204000008RG02

Rev.: 01

Page: 40 of 46



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-3000-12000-Ant1--53.01--40-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-12000-27000-Ant1--41.30--40-PASS



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Report No.: SEWA2204000008RG02

Rev.: 01

Page: 41 of 46

Field Strength of Spurious Radiation

Test Band = SA Band 30 BW 10M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	50.73	-108.05	-57.32	-40.00	17.32	263	96	Horizontal
2	6916.77	47.76	-101.68	-53.92	-40.00	13.92	251	263	Horizontal
3	9222.36	46.21	-95.08	-48.87	-40.00	8.87	142	241	Horizontal
4	11527.95	42.88	-91.44	-48.56	-40.00	8.56	266	357	Horizontal
5	13833.54	42.16	-90.03	-47.87	-40.00	7.87	244	144	Horizontal
6	16139.13	41.92	-90.60	-48.68	-40.00	8.68	265	302	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	49.14	-108.05	-58.91	-40.00	18.91	263	1	Vertical
2	6916.77	49.70	-101.68	-51.98	-40.00	11.98	251	0	Vertical
3	9222.36	47.06	-95.08	-48.02	-40.00	8.02	142	278	Vertical
4	11527.95	42.64	-91.44	-48.80	-40.00	8.80	284	7	Vertical
5	13833.54	43.32	-90.03	-46.71	-40.00	6.71	176	81	Vertical
6	16139.13	42.40	-90.60	-48.20	-40.00	8.20	265	302	Vertical



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Report No.: SEWA2204000008RG02

Rev.: 01

Page: 42 of 46

Test Band = SA Band 30 BW 5M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	52.55	-108.05	-55.50	-40.00	15.50	163	161	Horizontal
2	6916.02	48.52	-101.68	-53.16	-40.00	13.16	251	185	Horizontal
3	9221.36	46.72	-95.08	-48.36	-40.00	8.36	174	104	Horizontal
4	11526.7	42.18	-91.44	-49.26	-40.00	9.26	186	115	Horizontal
5	13832.04	42.32	-90.05	-47.73	-40.00	7.73	265	151	Horizontal
6	16137.38	43.17	-90.62	-47.45	-40.00	7.45	244	209	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	51.43	-108.05	-56.62	-40.00	16.62	163	348	Vertical
2	6916.02	47.81	-101.68	-53.87	-40.00	13.87	284	7	Vertical
3	9221.36	46.94	-95.08	-48.14	-40.00	8.14	176	337	Vertical
4	11526.7	42.28	-91.44	-49.16	-40.00	9.16	255	348	Vertical
5	13832.04	42.67	-90.05	-47.38	-40.00	7.38	144	0	Vertical
6	16137.38	42.17	-90.62	-48.45	-40.00	8.45	177	326	Vertical



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Report No.: SEWA2204000008RG02

Rev.: 01

Page: 43 of 46

Test Band = SA Band 30 BW 5M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	51.22	-108.03	-56.81	-40.00	16.81	263	234	Horizontal
2	6923.52	49.49	-101.68	-52.19	-40.00	12.19	241	44	Horizontal
3	9231.36	47.60	-95.08	-47.48	-40.00	7.48	176	22	Horizontal
4	11539.2	41.65	-91.51	-49.86	-40.00	9.86	284	326	Horizontal
5	13847.04	42.05	-89.92	-47.87	-40.00	7.87	176	326	Horizontal
6	16154.88	41.95	-90.46	-48.51	-40.00	8.51	254	7	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	49.75	-108.03	-58.28	-40.00	18.28	263	47	Vertical
2	6923.52	49.50	-101.68	-52.18	-40.00	12.18	251	117	Vertical
3	9231.36	46.68	-95.08	-48.40	-40.00	8.40	174	314	Vertical
4	11539.2	41.11	-91.51	-50.40	-40.00	10.40	186	349	Vertical
5	13847.04	42.34	-89.92	-47.58	-40.00	7.58	254	57	Vertical
6	16154.88	42.59	-90.46	-47.87	-40.00	7.87	144	35	Vertical



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Report No.: SEWA2204000008RG02

Rev.: 01

Page: 44 of 46

Test Band = SA Band 30 BW 5M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	49.99	-108.00	-58.01	-40.00	18.01	142	44	Horizontal
2	6931.02	49.21	-101.68	-52.47	-40.00	12.47	263	196	Horizontal
3	9241.32	47.16	-95.08	-47.92	-40.00	7.92	286	303	Horizontal
4	11551.7	42.07	-91.59	-49.52	-40.00	9.52	241	44	Horizontal
5	13862.04	41.09	-89.78	-48.69	-40.00	8.69	177	44	Horizontal
6	16172.38	43.03	-90.28	-47.25	-40.00	7.25	266	92	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	49.40	-108.00	-58.60	-40.00	18.60	142	14	Vertical
2	6931.02	47.89	-101.68	-53.79	-40.00	13.79	263	14	Vertical
3	9241.32	48.85	-95.08	-46.23	-40.00	6.23	286	209	Vertical
4	11551.7	41.27	-91.59	-50.32	-40.00	10.32	241	245	Vertical
5	13862.04	42.08	-89.78	-47.70	-40.00	7.70	177	0	Vertical
6	16172.38	41.98	-90.28	-48.30	-40.00	8.30	261	245	Vertical



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Report No.: SEWA2204000008RG02

Rev.: 01

Page: 45 of 46

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
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	3.100000	0.001342	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	3.400000	0.001472	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.400000	-0.000606	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VH	NT	-2.500000	-0.001082	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VN	NT	2.000000	0.000866	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VL	NT	-3.400000	-0.001472	PASS



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Report No.: SEWA2204000008RG02

Rev.: 01

Page: 46 of 46

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	10.500000	0.004545	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	9.300000	0.004026	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	2.400000	0.001039	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	0	1.700000	0.000736	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	10	12.300000	0.005325	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	20	2.500000	0.001082	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	30	10.400000	0.004502	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	40	6.300000	0.002727	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	50	1.400000	0.000606	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-30	3.800000	0.001645	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-20	-0.700000	-0.000303	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-10	4.700000	0.002035	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	0	4.700000	0.002035	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	10	0.800000	0.000346	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	20	0.300000	0.000130	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	30	1.600000	0.000693	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	40	5.600000	0.002424	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	50	5.500000	0.002381	PASS

The End



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