

Report No.: SEWA2204000008RG02

Rev.: 01

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Test Band = NR UL CA n7A-n78A 3450M-3550M_ 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	5002.18	49.84	-105.84	-56.00	-13.00	43.00	175	12	Horizontal
2	6810.18	48.96	-101.85	-52.89	-13.00	39.89	152	63	Horizontal
3	7503.27	48.67	-100.33	-51.66	-13.00	38.66	265	167	Horizontal
4	10004.36	45.27	-93.80	-48.53	-13.00	35.53	241	255	Horizontal
5	10215.27	44.30	-93.16	-48.86	-13.00	35.86	263	226	Horizontal
6	13620.36	45.85	-89.80	-43.95	-13.00	30.95	241	21	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	50.76	-105.84	-55.08	-13.00	42.08	241	357	Vertical
2	6810.18	49.48	-101.85	-52.37	-13.00	39.37	175	46	Vertical
3	7503.27	48.98	-100.33	-51.35	-13.00	38.35	263	77	Vertical
4	10004.36	45.15	-93.80	-48.65	-13.00	35.65	284	118	Vertical
5	10215.27	43.85	-93.16	-49.31	-13.00	36.31	265	4	Vertical
6	13620.36	45.18	-89.80	-44.62	-13.00	31.62	241	0	Vertical



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Test Band = NR UL CA n7A-n78A 3450M-3550M_ 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	5052.18	50.97	-105.71	-54.74	-13.00	41.74	251	64	Horizontal
2	6910.18	48.20	-101.41	-53.21	-13.00	40.21	284	328	Horizontal
3	7578.27	49.60	-99.91	-50.31	-13.00	37.31	142	328	Horizontal
4	10104.36	45.11	-93.50	-48.39	-13.00	35.39	263	328	Horizontal
5	10365.27	43.21	-92.99	-49.78	-13.00	36.78	162	155	Horizontal
6	13820.36	42.99	-90.30	-47.31	-13.00	34.31	241	236	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	50.53	-105.71	-55.18	-13.00	42.18	263	134	Vertical
2	6910.18	49.55	-101.41	-51.86	-13.00	38.86	251	185	Vertical
3	7578.27	48.31	-99.91	-51.60	-13.00	38.60	142	1	Vertical
4	10104.36	45.35	-93.50	-48.15	-13.00	35.15	284	298	Vertical
5	10365.27	42.82	-92.99	-50.17	-13.00	37.17	262	275	Vertical
6	13820.36	43.14	-90.30	-47.16	-13.00	34.16	241	0	Vertical



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Test Band = NR UL CA n7A-n78A 3450M-3550M_ 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	5102.18	48.82	-105.59	-56.77	-13.00	43.77	263	94	Horizontal
2	7010.18	48.57	-101.46	-52.89	-13.00	39.89	251	6	Horizontal
3	7653.27	49.45	-99.71	-50.26	-13.00	37.26	142	62	Horizontal
4	10204.36	44.58	-93.15	-48.57	-13.00	35.57	263	0	Horizontal
5	10515.27	43.44	-92.59	-49.15	-13.00	36.15	254	276	Horizontal
6	14020.36	41.66	-90.28	-48.62	-13.00	35.62	185	62	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	49.09	-105.59	-56.50	-13.00	43.50	142	94	Vertical
2	7010.18	49.60	-101.46	-51.86	-13.00	38.86	263	276	Vertical
3	7653.27	49.16	-99.71	-50.55	-13.00	37.55	251	0	Vertical
4	10204.36	44.08	-93.15	-49.07	-13.00	36.07	174	125	Vertical
5	10515.27	43.55	-92.59	-49.04	-13.00	36.04	263	94	Vertical
6	14020.36	42.42	-90.28	-47.86	-13.00	34.86	254	135	Vertical



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Test Band = NR UL CA n66A-n78A 3450M-3550M_ 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	3404.18	35.75	-88.36	-52.61	-13.00	39.61	263	54	Horizontal
2	5106.27	49.30	-105.60	-56.30	-13.00	43.30	214	317	Horizontal
3	6808.36	49.25	-101.85	-52.60	-13.00	39.60	153	136	Horizontal
4	6810.18	49.69	-101.85	-52.16	-13.00	39.16	263	55	Horizontal
5	10215.27	43.61	-93.16	-49.55	-13.00	36.55	241	306	Horizontal
6	13620.36	44.13	-89.80	-45.67	-13.00	32.67	175	205	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3404.18	36.17	-88.36	-52.19	-13.00	39.19	142	148	Vertical
2	5106.27	49.52	-105.60	-56.08	-13.00	43.08	263	0	Vertical
3	6808.36	50.73	-101.85	-51.12	-13.00	38.12	241	185	Vertical
4	6810.18	49.23	-101.85	-52.62	-13.00	39.62	142	288	Vertical
5	10215.27	44.07	-93.16	-49.09	-13.00	36.09	263	206	Vertical
6	13620.36	43.09	-89.80	-46.71	-13.00	33.71	251	357	Vertical



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Test Band = NR UL CA n66A-n78A 3450M-3550M_ 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	3454.18	48.88	-88.16	-39.28	-13.00	26.28	263	210	Horizontal
2	5181.27	50.91	-105.75	-54.84	-13.00	41.84	251	206	Horizontal
3	6908.36	48.60	-101.41	-52.81	-13.00	39.81	175	1	Horizontal
4	6910.18	48.59	-101.41	-52.82	-13.00	39.82	263	116	Horizontal
5	10365.27	42.98	-92.99	-50.01	-13.00	37.01	254	17	Horizontal
6	13820.36	42.83	-90.30	-47.47	-13.00	34.47	114	349	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.18	46.57	-88.16	-41.59	-13.00	28.59	142	353	Vertical
2	5181.27	50.90	-105.75	-54.85	-13.00	41.85	263	108	Vertical
3	6908.36	48.21	-101.41	-53.20	-13.00	40.20	251	1	Vertical
4	6910.18	47.92	-101.41	-53.49	-13.00	40.49	142	168	Vertical
5	10365.27	43.28	-92.99	-49.71	-13.00	36.71	263	1	Vertical
6	13820.36	42.81	-90.30	-47.49	-13.00	34.49	241	0	Vertical



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Test Band = NR UL CA n66A-n78A 3450M-3550M_ 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	3504.18	46.74	-87.95	-41.21	-13.00	28.21	284	206	Horizontal
2	5256.27	51.06	-105.74	-54.68	-13.00	41.68	263	165	Horizontal
3	7008.36	48.53	-101.47	-52.94	-13.00	39.94	251	357	Horizontal
4	7010.18	48.59	-101.46	-52.87	-13.00	39.87	263	15	Horizontal
5	10515.27	41.95	-92.59	-50.64	-13.00	37.64	251	264	Horizontal
6	14020.36	42.09	-90.28	-48.19	-13.00	35.19	142	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.18	45.28	-87.95	-42.67	-13.00	29.67	112	353	Vertical
2	5256.27	51.96	-105.74	-53.78	-13.00	40.78	263	330	Vertical
3	7008.36	48.58	-101.47	-52.89	-13.00	39.89	251	117	Vertical
4	7010.18	48.88	-101.46	-52.58	-13.00	39.58	144	357	Vertical
5	10515.27	43.00	-92.59	-49.59	-13.00	36.59	155	280	Vertical
6	14020.36	42.49	-90.28	-47.79	-13.00	34.79	268	189	Vertical



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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	1328.18	40.86	-95.91	-55.05	-13.00	42.05	186	11	Horizontal
2	1992.27	39.11	-93.45	-54.34	-13.00	41.34	265	360	Horizontal
3	2656.36	38.82	-90.77	-51.95	-13.00	38.95	241	145	Horizontal
4	6810.18	49.36	-101.85	-52.49	-13.00	39.49	163	23	Horizontal
5	10215.27	44.90	-93.16	-48.26	-13.00	35.26	254	23	Horizontal
6	13620.36	43.97	-89.80	-45.83	-13.00	32.83	174	277	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.18	39.82	-95.91	-56.09	-13.00	43.09	142	177	Vertical
2	1992.27	39.88	-93.45	-53.57	-13.00	40.57	263	332	Vertical
3	2656.36	38.17	-90.77	-52.60	-13.00	39.60	251	346	Vertical
4	6810.18	49.29	-101.85	-52.56	-13.00	39.56	175	154	Vertical
5	10215.27	45.44	-93.16	-47.72	-13.00	34.72	263	204	Vertical
6	13620.36	43.80	-89.80	-46.00	-13.00	33.00	254	318	Vertical



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Test Band = NR UL CA 71A-n78A 3450M-3550M_ 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	1343.18	39.34	-95.86	-56.52	-13.00	43.52	163	160	Horizontal
2	2014.77	38.15	-93.34	-55.19	-13.00	42.19	254	240	Horizontal
3	2686.36	38.66	-90.61	-51.95	-13.00	38.95	174	130	Horizontal
4	6910.18	48.83	-101.41	-52.58	-13.00	39.58	145	170	Horizontal
5	10365.27	42.52	-92.99	-50.47	-13.00	37.47	321	50	Horizontal
6	13820.36	43.57	-90.30	-46.73	-13.00	33.73	142	180	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.18	40.72	-95.86	-55.14	-13.00	42.14	142	120	Vertical
2	2014.77	38.56	-93.34	-54.78	-13.00	41.78	263	180	Vertical
3	2686.36	37.57	-90.61	-53.04	-13.00	40.04	251	170	Vertical
4	6910.18	47.46	-101.41	-53.95	-13.00	40.95	185	320	Vertical
5	10365.27	44.01	-92.99	-48.98	-13.00	35.98	263	250	Vertical
6	13820.36	42.53	-90.30	-47.77	-13.00	34.77	241	10	Vertical



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Test Band = NR UL CA 71A-n78A 3450M-3550M_ 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	1358.18	41.03	-95.81	-54.78	-13.00	41.78	176	204	Horizontal
2	2037.27	38.99	-93.27	-54.28	-13.00	41.28	254	262	Horizontal
3	2716.36	38.51	-90.45	-51.94	-13.00	38.94	118	9	Horizontal
4	7010.18	49.42	-101.46	-52.04	-13.00	39.04	142	327	Horizontal
5	10515.27	43.81	-92.59	-48.78	-13.00	35.78	263	31	Horizontal
6	14020.36	41.52	-90.28	-48.76	-13.00	35.76	284	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.18	40.64	-95.81	-55.17	-13.00	42.17	146	324	Vertical
2	2037.27	39.76	-93.27	-53.51	-13.00	40.51	284	19	Vertical
3	2716.36	37.87	-90.45	-52.58	-13.00	39.58	175	360	Vertical
4	7010.18	49.44	-101.46	-52.02	-13.00	39.02	265	0	Vertical
5	10515.27	43.49	-92.59	-49.10	-13.00	36.10	142	22	Vertical
6	14020.36	42.05	-90.28	-48.23	-13.00	35.23	268	287	Vertical



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Test Band = NR UL CA n25A-n78A 3450M-3550M_ 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	3704.18	34.36	-87.25	-52.89	-13.00	39.89	186	274	Horizontal
2	5556.27	50.09	-105.32	-55.23	-13.00	42.23	265	0	Horizontal
3	6810.18	49.41	-101.85	-52.44	-13.00	39.44	163	64	Horizontal
4	7408.36	47.78	-100.77	-52.99	-13.00	39.99	241	247	Horizontal
5	10215.27	44.03	-93.16	-49.13	-13.00	36.13	251	1	Horizontal
6	13620.36	46.04	-89.80	-43.76	-13.00	30.76	174	149	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.18	33.58	-87.25	-53.67	-13.00	40.67	142	22	Vertical
2	5556.27	50.75	-105.32	-54.57	-13.00	41.57	263	166	Vertical
3	6810.18	49.05	-101.85	-52.80	-13.00	39.80	284	338	Vertical
4	7408.36	47.63	-100.77	-53.14	-13.00	40.14	175	247	Vertical
5	10215.27	44.22	-93.16	-48.94	-13.00	35.94	263	44	Vertical
6	13620.36	44.40	-89.80	-45.40	-13.00	32.40	254	357	Vertical



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Test Band = NR UL CA n25A-n78A 3450M-3550M_ 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	3729.18	34.35	-87.02	-52.67	-13.00	39.67	163	129	Horizontal
2	5593.77	50.39	-105.40	-55.01	-13.00	42.01	251	226	Horizontal
3	6910.18	47.93	-101.41	-53.48	-13.00	40.48	186	146	Horizontal
4	7458.36	49.44	-100.54	-51.10	-13.00	38.10	174	236	Horizontal
5	10365.27	43.82	-92.99	-49.17	-13.00	36.17	254	206	Horizontal
6	13820.36	43.57	-90.30	-46.73	-13.00	33.73	188	318	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.18	33.99	-87.02	-53.03	-13.00	40.03	142	51	Vertical
2	5593.77	50.96	-105.40	-54.44	-13.00	41.44	263	1	Vertical
3	6910.18	48.11	-101.41	-53.30	-13.00	40.30	284	35	Vertical
4	7458.36	47.38	-100.54	-53.16	-13.00	40.16	176	136	Vertical
5	10365.27	43.56	-92.99	-49.43	-13.00	36.43	254	197	Vertical
6	13820.36	43.22	-90.30	-47.08	-13.00	34.08	144	35	Vertical



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Test Band = NR UL CA n25A-n78A 3450M-3550M_ 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	3754.18	33.86	-86.80	-52.94	-13.00	39.94	241	3	Horizontal
2	5631.27	49.82	-105.28	-55.46	-13.00	42.46	175	338	Horizontal
3	7010.18	48.68	-101.46	-52.78	-13.00	39.78	142	187	Horizontal
4	7508.36	48.03	-100.30	-52.27	-13.00	39.27	263	134	Horizontal
5	10515.27	42.77	-92.59	-49.82	-13.00	36.82	263	308	Horizontal
6	14020.36	41.51	-90.28	-48.77	-13.00	35.77	285	207	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3754.18	33.34	-86.80	-53.46	-13.00	40.46	142	70	Vertical
2	5631.27	49.96	-105.28	-55.32	-13.00	42.32	263	126	Vertical
3	7010.18	48.63	-101.46	-52.83	-13.00	39.83	251	205	Vertical
4	7508.36	48.52	-100.30	-51.78	-13.00	38.78	174	17	Vertical
5	10515.27	44.98	-92.59	-47.61	-13.00	34.61	186	277	Vertical
6	14020.36	42.06	-90.28	-48.22	-13.00	35.22	254	35	Vertical



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	9.700000	0.002771	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	8.700000	0.002486	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	8.100000	0.002314	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	17.000000	0.004857	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	10.500000	0.003000	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	9.800000	0.002800	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	8.600000	0.002457	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	10.900000	0.003114	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	6.400000	0.001829	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	7.600000	0.002171	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	4.300000	0.001229	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	13.500000	0.003857	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	12.800000	0.003657	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	3.400000	0.000971	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	9.100000	0.002600	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	7.400000	0.002114	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	4.100000	0.001171	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	7.300000	0.002086	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	2.200000	0.000629	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	8.300000	0.002371	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	4.700000	0.001343	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	3.400000	0.000971	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	6.500000	0.001857	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	6.700000	0.001914	PASS

The End



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