

Test Band = NR UL CA n7A-n78A 3700M-3800M_ 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	49.69	-105.59	-55.90	-13.00	42.90	263	0	Horizontal
2	7510.18	49.83	-100.29	-50.46	-13.00	37.46	263	357	Horizontal
3	7653.27	50.14	-99.71	-49.57	-13.00	36.57	141	357	Horizontal
4	10204.36	43.56	-93.15	-49.59	-13.00	36.59	263	275	Horizontal
5	11265.27	43.94	-91.08	-47.14	-13.00	34.14	284	34	Horizontal
6	15020.36	42.34	-90.39	-48.05	-13.00	35.05	321	327	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	50.25	-105.59	-55.34	-13.00	42.34	251	357	Vertical
2	7510.18	48.05	-100.29	-52.24	-13.00	39.24	142	278	Vertical
3	7653.27	49.31	-99.71	-50.40	-13.00	37.40	263	247	Vertical
4	10204.36	44.00	-93.15	-49.15	-13.00	36.15	284	298	Vertical
5	11265.27	42.42	-91.08	-48.66	-13.00	35.66	176	258	Vertical
6	15020.36	42.62	-90.39	-47.77	-13.00	34.77	254	196	Vertical



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Test Band = NR UL CA n66A-n78A 3700M-3800M_ 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	36.29	-88.36	-52.07	-13.00	39.07	263	360	Horizontal
2	5106.27	49.77	-105.60	-55.83	-13.00	42.83	241	286	Horizontal
3	6808.36	49.71	-101.85	-52.14	-13.00	39.14	175	17	Horizontal
4	7310.18	48.30	-100.63	-52.33	-13.00	39.33	263	0	Horizontal
5	10965.27	41.24	-91.32	-50.08	-13.00	37.08	254	65	Horizontal
6	14620.36	41.67	-89.81	-48.14	-13.00	35.14	185	275	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3404.18	36.91	-88.36	-51.45	-13.00	38.45	142	299	Vertical
2	5106.27	49.75	-105.60	-55.85	-13.00	42.85	263	338	Vertical
3	6808.36	49.04	-101.85	-52.81	-13.00	39.81	255	357	Vertical
4	7310.18	49.46	-100.63	-51.17	-13.00	38.17	244	277	Vertical
5	10965.27	42.35	-91.32	-48.97	-13.00	35.97	196	1	Vertical
6	14620.36	40.19	-89.81	-49.62	-13.00	36.62	221	318	Vertical



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Test Band = NR UL CA n66A-n78A 3700M-3800M_ 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	36.00	-88.16	-52.16	-13.00	39.16	142	3	Horizontal
2	5181.27	49.60	-105.75	-56.15	-13.00	43.15	263	21	Horizontal
3	6908.36	48.31	-101.41	-53.10	-13.00	40.10	254	145	Horizontal
4	7410.18	48.08	-100.76	-52.68	-13.00	39.68	142	307	Horizontal
5	11115.27	43.08	-90.92	-47.84	-13.00	34.84	263	297	Horizontal
6	14820.36	41.00	-89.81	-48.81	-13.00	35.81	251	115	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.18	36.69	-88.16	-51.47	-13.00	38.47	142	102	Vertical
2	5181.27	50.76	-105.75	-54.99	-13.00	41.99	263	179	Vertical
3	6908.36	48.36	-101.41	-53.05	-13.00	40.05	284	248	Vertical
4	7410.18	49.24	-100.76	-51.52	-13.00	38.52	176	200	Vertical
5	11115.27	42.73	-90.92	-48.19	-13.00	35.19	263	0	Vertical
6	14820.36	40.70	-89.81	-49.11	-13.00	36.11	241	357	Vertical



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Test Band = NR UL CA n66A-n78A 3700M-3800M_ 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	36.26	-87.95	-51.69	-13.00	38.69	122	180	Horizontal
2	5256.27	50.88	-105.74	-54.86	-13.00	41.86	251	0	Horizontal
3	7008.36	48.48	-101.47	-52.99	-13.00	39.99	142	194	Horizontal
4	7510.18	48.89	-100.29	-51.40	-13.00	38.40	286	31	Horizontal
5	11265.27	42.80	-91.08	-48.28	-13.00	35.28	254	184	Horizontal
6	15020.36	42.66	-90.39	-47.73	-13.00	34.73	144	6	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.18	35.16	-87.95	-52.79	-13.00	39.79	263	360	Vertical
2	5256.27	50.66	-105.74	-55.08	-13.00	42.08	251	106	Vertical
3	7008.36	48.58	-101.47	-52.89	-13.00	39.89	142	17	Vertical
4	7510.18	48.71	-100.29	-51.58	-13.00	38.58	262	288	Vertical
5	11265.27	44.11	-91.08	-46.97	-13.00	33.97	263	1	Vertical
6	15020.36	42.96	-90.39	-47.43	-13.00	34.43	241	17	Vertical



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Test Band = NR UL CA 71A-n78A 3700M-3800M_ 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	1328.18	40.26	-95.91	-55.65	-13.00	42.65	251	79	Horizontal
2	1992.27	40.18	-93.45	-53.27	-13.00	40.27	174	250	Horizontal
3	2656.36	38.13	-90.77	-52.64	-13.00	39.64	155	71	Horizontal
4	7310.18	48.94	-100.63	-51.69	-13.00	38.69	241	184	Horizontal
5	10965.27	42.26	-91.32	-49.06	-13.00	36.06	142	134	Horizontal
6	14620.36	41.11	-89.81	-48.70	-13.00	35.70	263	63	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.18	39.50	-95.91	-56.41	-13.00	43.41	152	94	Vertical
2	1992.27	38.60	-93.45	-54.85	-13.00	41.85	263	60	Vertical
3	2656.36	38.56	-90.77	-52.21	-13.00	39.21	241	28	Vertical
4	7310.18	48.28	-100.63	-52.35	-13.00	39.35	142	54	Vertical
5	10965.27	42.01	-91.32	-49.31	-13.00	36.31	263	246	Vertical
6	14620.36	41.65	-89.81	-48.16	-13.00	35.16	251	277	Vertical



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Test Band = NR UL CA 71A-n78A 3700M-3800M_ 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	39.58	-95.86	-56.28	-13.00	43.28	142	360	Horizontal
2	2014.77	39.14	-93.34	-54.20	-13.00	41.20	263	359	Horizontal
3	2686.36	37.92	-90.61	-52.69	-13.00	39.69	251	54	Horizontal
4	7410.18	48.48	-100.76	-52.28	-13.00	39.28	263	0	Horizontal
5	11115.27	45.24	-90.92	-45.68	-13.00	32.68	254	3	Horizontal
6	14820.36	41.49	-89.81	-48.32	-13.00	35.32	174	308	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.18	40.06	-95.86	-55.80	-13.00	42.80	142	186	Vertical
2	2014.77	38.79	-93.34	-54.55	-13.00	41.55	263	54	Vertical
3	2686.36	38.01	-90.61	-52.60	-13.00	39.60	284	360	Vertical
4	7410.18	48.32	-100.76	-52.44	-13.00	39.44	142	258	Vertical
5	11115.27	43.09	-90.92	-47.83	-13.00	34.83	263	146	Vertical
6	14820.36	41.63	-89.81	-48.18	-13.00	35.18	251	337	Vertical



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Test Band = NR UL CA 71A-n78A 3700M-3800M_ 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	39.84	-95.81	-55.97	-13.00	42.97	263	199	Horizontal
2	2037.27	38.96	-93.27	-54.31	-13.00	41.31	251	325	Horizontal
3	2716.36	37.94	-90.45	-52.51	-13.00	39.51	184	171	Horizontal
4	7510.18	47.47	-100.29	-52.82	-13.00	39.82	163	139	Horizontal
5	11265.27	43.68	-91.08	-47.40	-13.00	34.40	251	258	Horizontal
6	15020.36	42.99	-90.39	-47.40	-13.00	34.40	144	298	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.18	40.82	-95.81	-54.99	-13.00	41.99	163	333	Vertical
2	2037.27	39.05	-93.27	-54.22	-13.00	41.22	254	62	Vertical
3	2716.36	38.59	-90.45	-51.86	-13.00	38.86	147	112	Vertical
4	7510.18	48.38	-100.29	-51.91	-13.00	38.91	142	307	Vertical
5	11265.27	42.77	-91.08	-48.31	-13.00	35.31	263	218	Vertical
6	15020.36	41.95	-90.39	-48.44	-13.00	35.44	251	327	Vertical



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Test Band = NR UL CA n25A-n78A 3700M-3800M_ 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	7310.18	49.01	-100.63	-51.62	-13.00	38.62	263	94	Horizontal
4	7408.36	47.78	-100.77	-52.99	-13.00	39.99	241	247	Horizontal
5	10965.27	42.47	-91.32	-48.85	-13.00	35.85	142	44	Horizontal
6	14620.36	41.59	-89.81	-48.22	-13.00	35.22	251	104	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	7310.18	47.95	-100.63	-52.68	-13.00	39.68	142	1	Vertical
4	7408.36	47.63	-100.77	-53.14	-13.00	40.14	175	247	Vertical
5	10965.27	43.30	-91.32	-48.02	-13.00	35.02	263	146	Vertical
6	14620.36	40.57	-89.81	-49.24	-13.00	36.24	251	55	Vertical



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Test Band = NR UL CA n25A-n78A 3700M-3800M_ 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	7410.18	48.74	-100.76	-52.02	-13.00	39.02	142	348	Horizontal
4	7458.36	49.44	-100.54	-51.10	-13.00	38.10	174	236	Horizontal
5	11115.27	43.18	-90.92	-47.74	-13.00	34.74	263	46	Horizontal
6	14820.36	42.07	-89.81	-47.74	-13.00	34.74	251	276	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	7410.18	48.21	-100.76	-52.55	-13.00	39.55	142	237	Vertical
4	7458.36	47.38	-100.54	-53.16	-13.00	40.16	176	136	Vertical
5	11115.27	43.56	-90.92	-47.36	-13.00	34.36	263	74	Vertical
6	14820.36	41.14	-89.81	-48.67	-13.00	35.67	251	0	Vertical



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Test Band = NR UL CA n25A-n78A 3700M-3800M_ 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	7508.36	48.03	-100.30	-52.27	-13.00	39.27	263	134	Horizontal
4	7510.18	48.33	-100.29	-51.96	-13.00	38.96	163	187	Horizontal
5	11265.27	43.97	-91.08	-47.11	-13.00	34.11	251	25	Horizontal
6	15020.36	43.84	-90.39	-46.55	-13.00	33.55	144	144	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	7508.36	48.52	-100.30	-51.78	-13.00	38.78	174	17	Vertical
4	7510.18	47.49	-100.29	-52.80	-13.00	39.80	142	134	Vertical
5	11265.27	44.37	-91.08	-46.71	-13.00	33.71	263	0	Vertical
6	15020.36	43.78	-90.39	-46.61	-13.00	33.61	284	134	Vertical



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Test on the worst case for SEWM2304000122RG02:

Test Band = NR UL CA n5A-n78A 3700M-3800M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9568.1042	37.68	-37.88	38.54	-56.92	-13.00	43.92	285	93	Horizontal
2	13644.8542	34.65	-34.63	39.99	-55.25	-13.00	42.25	241	277	Horizontal
3	17279.8125	32.59	-31.81	39.72	-54.76	-13.00	41.76	142	360	Horizontal
4	7482.18	39.21	-41.66	36.49	-61.22	-13.00	48.22	263	347	Horizontal
5	11223.27	32.58	-35.10	39.38	-58.40	-13.00	45.40	295	277	Horizontal
6	14964.36	31.13	-34.32	39.24	-59.21	-13.00	46.21	287	277	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9194.3542	36.25	-38.25	38.58	-58.68	-13.00	45.68	196	235	Vertical
2	13324.2917	34.11	-35.07	39.79	-56.43	-13.00	43.43	265	343	Vertical
3	17051.7292	34.30	-32.16	38.81	-54.31	-13.00	41.31	284	273	Vertical
4	7482.18	38.93	-41.66	36.49	-61.50	-13.00	48.50	142	360	Vertical
5	11223.27	34.16	-35.10	39.38	-56.82	-13.00	43.82	263	3	Vertical
6	14964.36	31.10	-34.32	39.24	-59.24	-13.00	46.24	228	360	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_FuII	VH	NT	5.700000	0.001520	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_FuII	VN	NT	2.600000	0.000693	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_FuII	VL	NT	0.500000	0.000133	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_FuII	VH	NT	4.300000	0.001147	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_FuII	VN	NT	1.400000	0.000373	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_FuII	VL	NT	5.500000	0.001467	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SC S	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	-30	9.100000	0.002427	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	-20	8.900000	0.002373	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	-10	5.800000	0.001547	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	0	4.100000	0.001093	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	10	3.200000	0.000853	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	20	6.500000	0.001733	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	30	4.100000	0.001093	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	40	4.600000	0.001227	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Fu II	NV	50	5.500000	0.001467	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	-30	-0.200000	0.000053	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	-20	13.200000	0.003520	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	-10	2.000000	0.000533	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	0	7.500000	0.002000	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	10	4.800000	0.001280	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	20	7.700000	0.002053	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	30	3.700000	0.000987	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	40	-0.900000	-	PASS



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3800					II				0.000240	
N78-3700-3800	30	100	CP-QPSK	M	Outer_Fu II	NV	50	13.400000	0.003573	PASS



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