

Test Band = NR UL CA 71A-n77A 3700M-3980M_ 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	142	184	Horizontal
5	10965.27	42.26	-91.32	-49.06	-13.00	36.06	256	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	175	54	Vertical
5	10965.27	42.01	-91.32	-49.31	-13.00	36.31	265	246	Vertical
6	14620.36	41.65	-89.81	-48.16	-13.00	35.16	241	277	Vertical



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Test Band = NR UL CA 71A-n77A 3700M-3980M_ 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	7590.18	49.11	-99.85	-50.74	-13.00	37.74	144	107	Horizontal
5	11835.27	43.12	-91.75	-48.63	-13.00	35.63	254	32	Horizontal
6	15180.36	42.79	-89.91	-47.12	-13.00	34.12	184	32	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	7590.18	49.25	-99.85	-50.60	-13.00	37.60	175	4	Vertical
5	11835.27	43.43	-91.75	-48.32	-13.00	35.32	265	35	Vertical
6	15180.36	43.17	-89.91	-46.74	-13.00	33.74	241	155	Vertical



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Test Band = NR UL CA 71A-n77A 3700M-3980M_ 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	7870.18	46.71	-98.77	-52.06	-13.00	39.06	163	347	Horizontal
5	11805.27	42.89	-91.86	-48.97	-13.00	35.97	251	317	Horizontal
6	15740.36	44.52	-90.73	-46.21	-13.00	33.21	142	317	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	7870.18	47.15	-98.77	-51.62	-13.00	38.62	185	54	Vertical
5	11805.27	44.18	-91.86	-47.68	-13.00	34.68	263	3	Vertical
6	15740.36	41.81	-90.73	-48.92	-13.00	35.92	241	318	Vertical



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Test Band = NR UL CA n25A-n77A 3700M-3980M_ 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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 Wireless Laboratory

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Test Band = NR UL CA n25A-n77A 3700M-3980M_ 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	33.49	-87.02	-53.53	-13.00	40.53	163	163	Horizontal
2	5593.77	50.55	-105.40	-54.85	-13.00	41.85	254	156	Horizontal
3	7458.36	47.86	-100.54	-52.68	-13.00	39.68	188	356	Horizontal
4	7590.18	49.05	-99.85	-50.80	-13.00	37.80	163	206	Horizontal
5	11835.27	43.42	-91.75	-48.33	-13.00	35.33	251	266	Horizontal
6	15180.36	42.76	-89.91	-47.15	-13.00	34.15	174	277	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.18	34.46	-87.02	-52.56	-13.00	39.56	142	104	Vertical
2	5593.77	50.52	-105.40	-54.88	-13.00	41.88	263	208	Vertical
3	7458.36	48.02	-100.54	-52.52	-13.00	39.52	254	15	Vertical
4	7590.18	49.06	-99.85	-50.79	-13.00	37.79	185	93	Vertical
5	11835.27	42.89	-91.75	-48.86	-13.00	35.86	265	74	Vertical
6	15180.36	42.25	-89.91	-47.66	-13.00	34.66	241	329	Vertical



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Test Band = NR UL CA n25A-n77A 3700M-3980M_ 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	34.90	-86.80	-51.90	-13.00	38.90	142	323	Horizontal
2	5631.27	50.74	-105.28	-54.54	-13.00	41.54	263	186	Horizontal
3	7508.36	48.76	-100.30	-51.54	-13.00	38.54	251	226	Horizontal
4	7870.18	46.74	-98.77	-52.03	-13.00	39.03	174	195	Horizontal
5	11805.27	43.43	-91.86	-48.43	-13.00	35.43	186	76	Horizontal
6	15740.36	42.64	-90.73	-48.09	-13.00	35.09	255	65	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3754.18	34.53	-86.80	-52.27	-13.00	39.27	142	78	Vertical
2	5631.27	50.13	-105.28	-55.15	-13.00	42.15	263	280	Vertical
3	7508.36	48.72	-100.30	-51.58	-13.00	38.58	254	209	Vertical
4	7870.18	47.26	-98.77	-51.51	-13.00	38.51	175	178	Vertical
5	11805.27	43.95	-91.86	-47.91	-13.00	34.91	265	0	Vertical
6	15740.36	42.33	-90.73	-48.40	-13.00	35.40	218	16	Vertical



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Test Band = NR UL CA n13A-n77A 3700M-3980M_ 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	1554.68	39.40	-95.18	-55.78	-13.00	42.78	163	360	Horizontal
2	2332.02	38.36	-92.24	-53.88	-13.00	40.88	274	175	Horizontal
3	3109.36	37.38	-88.89	-51.51	-13.00	38.51	166	11	Horizontal
4	7310.18	47.85	-100.63	-52.78	-13.00	39.78	254	147	Horizontal
5	10965.27	43.33	-91.32	-47.99	-13.00	34.99	196	238	Horizontal
6	14620.36	42.04	-89.81	-47.77	-13.00	34.77	264	347	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	40.15	-95.18	-55.03	-13.00	42.03	262	273	Vertical
2	2332.02	38.67	-92.24	-53.57	-13.00	40.57	241	70	Vertical
3	3109.36	37.19	-88.89	-51.70	-13.00	38.70	175	3	Vertical
4	7310.18	48.43	-100.63	-52.20	-13.00	39.20	284	328	Vertical
5	10965.27	41.96	-91.32	-49.36	-13.00	36.36	221	93	Vertical
6	14620.36	41.17	-89.81	-48.64	-13.00	35.64	145	74	Vertical



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Test Band = NR UL CA n13A-n77A 3700M-3980M_ 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	1559.68	39.33	-95.17	-55.84	-13.00	42.84	263	284	Horizontal
2	2339.52	38.94	-92.21	-53.27	-13.00	40.27	185	360	Horizontal
3	3119.36	37.77	-88.84	-51.07	-13.00	38.07	196	236	Horizontal
4	7590.18	49.30	-99.85	-50.55	-13.00	37.55	241	287	Horizontal
5	11835.27	43.95	-91.75	-47.80	-13.00	34.80	175	317	Horizontal
6	15180.36	42.59	-89.91	-47.32	-13.00	34.32	142	277	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	39.74	-95.17	-55.43	-13.00	42.43	142	103	Vertical
2	2339.52	39.33	-92.21	-52.88	-13.00	39.88	241	49	Vertical
3	3119.36	37.38	-88.84	-51.46	-13.00	38.46	142	42	Vertical
4	7590.18	49.46	-99.85	-50.39	-13.00	37.39	263	0	Vertical
5	11835.27	42.32	-91.75	-49.43	-13.00	36.43	106	278	Vertical
6	15180.36	42.60	-89.91	-47.31	-13.00	34.31	302	0	Vertical



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Test Band = NR UL CA n13A-n77A 3700M-3980M_ 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	1564.68	40.16	-95.16	-55.00	-13.00	42.00	142	3	Horizontal
2	2347.02	38.82	-92.18	-53.36	-13.00	40.36	263	348	Horizontal
3	3129.36	37.37	-88.79	-51.42	-13.00	38.42	284	95	Horizontal
4	7870.18	47.22	-98.77	-51.55	-13.00	38.55	176	279	Horizontal
5	11805.27	43.23	-91.86	-48.63	-13.00	35.63	253	4	Horizontal
6	15740.36	43.05	-90.73	-47.68	-13.00	34.68	254	156	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	39.13	-95.16	-56.03	-13.00	43.03	142	221	Vertical
2	2347.02	38.60	-92.18	-53.58	-13.00	40.58	263	70	Vertical
3	3129.36	36.90	-88.79	-51.89	-13.00	38.89	284	360	Vertical
4	7870.18	47.09	-98.77	-51.68	-13.00	38.68	175	357	Vertical
5	11805.27	43.66	-91.86	-48.20	-13.00	35.20	263	225	Vertical
6	15740.36	42.89	-90.73	-47.84	-13.00	34.84	241	236	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
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	9.100000	0.002370	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	25.200000	0.006563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	12.900000	0.003359	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	8.900000	0.002318	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	14.600000	0.003802	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	13.900000	0.003620	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.200000	0.002396	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	13.300000	0.003464	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	15.200000	0.003958	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.500000	0.001953	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	11.700000	0.003047	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	16.000000	0.004167	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	12.800000	0.003333	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	13.900000	0.003620	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.800000	0.001771	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	9.200000	0.002396	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	5.300000	0.001380	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	3.500000	0.000911	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	15.800000	0.004115	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	12.200000	0.003177	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	6.200000	0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	13.700000	0.003568	PASS



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 Wireless Laboratory

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Test Result for MIMO

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-7.100000	-0.003242	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-6.500000	-0.006352	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	12.200000	0.004712	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-6.100000	-0.003257	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-12.400000	-0.003658	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-13.500000	-0.003657	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-7.200000	-0.002563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-10.500000	-0.002736	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	14.500000	0.003752	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-8.200000	-0.002234	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-15.500000	-0.004063	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-19.500000	-0.005134	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.200000	-0.001533	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	13.500000	0.003456	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.700000	-0.001512	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-9.200000	-0.002325	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-20.200000	-0.005352	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-12.200000	-0.003254	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	-8.700000	-0.002235	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-8.200000	-0.002123	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-10.300000	-0.002744	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-14.200000	-0.003732	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-7.500000	-0.002025	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	10.200000	0.002563	PASS

---End of Attachment---



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