

Report No.: SUAR/2021/C000302

Rev.: 01

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Test Band =NSA DC\_7A-n78A \_ TM1 3700M-3800M ANT4

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	7510.18	48.42	-99.93	-51.51	-13.00	38.51	218	360	Horizontal
2	9830.0714	54.29	-94.05	-39.76	-13.00	26.76	185	3	Horizontal
3	11265.27	42.79	-90.97	-48.18	-13.00	35.18	154	294	Horizontal
4	11942.7857	44.00	-91.35	-47.35	-13.00	34.35	152	80	Horizontal
5	15020.36	43.39	-90.41	-47.02	-13.00	34.02	164	92	Horizontal
6	17804.5	42.34	-85.03	-42.69	-13.00	29.69	124	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.18	47.75	-99.93	-52.18	-13.00	39.18	261	166	Vertical
2	9297.7857	48.95	-94.76	-45.81	-13.00	32.81	196	4	Vertical
3	11265.27	43.09	-90.97	-47.88	-13.00	34.88	142	359	Vertical
4	13646.4286	44.75	-89.12	-44.37	-13.00	31.37	112	360	Vertical
5	15020.36	43.46	-90.41	-46.95	-13.00	33.95	185	202	Vertical
6	17750.2857	41.27	-84.77	-43.50	-13.00	30.50	110	4	Vertical



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**Test Band =NSA DC\_38A-n78A \_ TM1 3700M-3800M ANT4**  
**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	7310.18	47.19	-100.45	-53.26	-13.00	40.26	162	127	Horizontal
2	9830.0714	53.95	-94.05	-40.10	-13.00	27.10	185	327	Horizontal
3	10965.27	43.11	-91.12	-48.01	-13.00	35.01	214	3	Horizontal
4	13128.9286	45.01	-90.07	-45.06	-13.00	32.06	264	11	Horizontal
5	14620.36	40.53	-89.74	-49.21	-13.00	36.21	185	291	Horizontal
6	17756.8571	41.54	-84.81	-43.27	-13.00	30.27	196	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	48.06	-100.45	-52.39	-13.00	39.39	196	33	Vertical
2	9830.0714	51.28	-94.05	-42.77	-13.00	29.77	214	150	Vertical
3	10965.27	41.30	-91.12	-49.82	-13.00	36.82	268	57	Vertical
4	13122.3571	45.52	-90.09	-44.57	-13.00	31.57	175	348	Vertical
5	14620.36	40.71	-89.74	-49.03	-13.00	36.03	154	117	Vertical
6	17730.5714	41.02	-84.65	-43.63	-13.00	30.63	145	44	Vertical



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Test Band =NSA DC\_38A-n78A \_ TM1 3700M-3800M ANT4

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	7410.18	47.54	-100.59	-53.05	-13.00	40.05	162	282	Horizontal
2	9830.0714	54.25	-94.05	-39.80	-13.00	26.80	196	163	Horizontal
3	11115.27	42.48	-90.95	-48.47	-13.00	35.47	241	270	Horizontal
4	13654.6429	45.68	-89.28	-43.60	-13.00	30.60	185	185	Horizontal
5	14820.36	42.02	-89.94	-47.92	-13.00	34.92	145	211	Horizontal
6	17724	41.52	-84.61	-43.09	-13.00	30.09	214	348	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.18	46.69	-100.59	-53.90	-13.00	40.90	196	292	Vertical
2	9830.0714	50.77	-94.05	-43.28	-13.00	30.28	214	221	Vertical
3	11115.27	42.85	-90.95	-48.10	-13.00	35.10	185	3	Vertical
4	13638.2143	45.11	-88.97	-43.86	-13.00	30.86	233	187	Vertical
5	14820.36	40.89	-89.94	-49.05	-13.00	36.05	164	141	Vertical
6	17694.4286	40.80	-84.55	-43.75	-13.00	30.75	185	57	Vertical



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Test Band =NSA DC\_38A-n78A \_ TM1 3700M-3800M ANT4

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	7510.18	47.19	-99.93	-52.74	-13.00	39.74	162	356	Horizontal
2	9830.0714	53.89	-94.05	-40.16	-13.00	27.16	185	335	Horizontal
3	11265.27	43.05	-90.97	-47.92	-13.00	34.92	142	184	Horizontal
4	12930.1429	44.00	-90.13	-46.13	-13.00	33.13	132	124	Horizontal
5	15020.36	41.59	-90.41	-48.82	-13.00	35.82	145	266	Horizontal
6	17960.5714	41.20	-83.82	-42.62	-13.00	29.62	218	208	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.18	47.34	-99.93	-52.59	-13.00	39.59	269	4	Vertical
2	9830.0714	50.53	-94.05	-43.52	-13.00	30.52	175	83	Vertical
3	11265.27	42.35	-90.97	-48.62	-13.00	35.62	214	307	Vertical
4	12737.9286	45.41	-90.77	-45.36	-13.00	32.36	185	360	Vertical
5	15020.36	42.34	-90.41	-48.07	-13.00	35.07	144	117	Vertical
6	17894.8571	42.41	-84.27	-41.86	-13.00	28.86	167	360	Vertical



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**Test Band =NSA DC\_41A-n78A \_ TM1 3700M-3800M ANT4**  
**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	7310.18	48.07	-100.45	-52.38	-13.00	39.38	194	80	Horizontal
2	9830.0714	54.44	-94.05	-39.61	-13.00	26.61	125	222	Horizontal
3	10965.27	42.72	-91.12	-48.40	-13.00	35.40	118	303	Horizontal
4	12954.7857	44.04	-90.19	-46.15	-13.00	33.15	194	315	Horizontal
5	14620.36	40.83	-89.74	-48.91	-13.00	35.91	111	80	Horizontal
6	17967.1429	41.20	-83.78	-42.58	-13.00	29.58	185	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	48.19	-100.45	-52.26	-13.00	39.26	400	105	Vertical
2	9830.0714	50.19	-94.05	-43.86	-13.00	30.86	100	360	Vertical
3	10965.27	40.90	-91.12	-50.22	-13.00	37.22	315	105	Vertical
4	14620.36	40.51	-89.74	-49.23	-13.00	36.23	214	105	Vertical
5	16984.7143	43.80	-88.66	-44.86	-13.00	31.86	296	346	Vertical
6	17916.2143	41.97	-84.12	-42.15	-13.00	29.15	185	126	Vertical



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**Test Band =NSA DC\_41A-n78A \_ TM1 3700M-3800M ANT4**  
**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	7410.18	48.37	-100.59	-52.22	-13.00	39.22	185	45	Horizontal
2	9830.0714	54.29	-94.05	-39.76	-13.00	26.76	214	269	Horizontal
3	11115.27	42.54	-90.95	-48.41	-13.00	35.41	196	81	Horizontal
4	13634.9286	44.64	-88.91	-44.27	-13.00	31.27	218	304	Horizontal
5	14820.36	42.28	-89.94	-47.66	-13.00	34.66	261	359	Horizontal
6	17719.0714	40.94	-84.58	-43.64	-13.00	30.64	214	102	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.18	47.20	-100.59	-53.39	-13.00	40.39	196	3	Vertical
2	9830.0714	50.76	-94.05	-43.29	-13.00	30.29	215	82	Vertical
3	11115.27	41.63	-90.95	-49.32	-13.00	36.32	264	210	Vertical
4	13127.2857	46.11	-90.08	-43.97	-13.00	30.97	186	268	Vertical
5	14820.36	41.14	-89.94	-48.80	-13.00	35.80	218	151	Vertical
6	17991.7857	41.07	-83.62	-42.55	-13.00	29.55	184	257	Vertical



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**Test Band =NSA DC\_41A-n78A \_ TM1 3700M-3800M ANT4**  
**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	7510.18	48.38	-99.93	-51.55	-13.00	38.55	121	359	Horizontal
2	9830.0714	54.13	-94.05	-39.92	-13.00	26.92	161	162	Horizontal
3	11265.27	43.45	-90.97	-47.52	-13.00	34.52	185	245	Horizontal
4	13201.2143	44.41	-89.86	-45.45	-13.00	32.45	194	3	Horizontal
5	15020.36	42.20	-90.41	-48.21	-13.00	35.21	164	359	Horizontal
6	17903.0714	41.64	-84.21	-42.57	-13.00	29.57	215	150	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.18	48.73	-99.93	-51.20	-13.00	38.20	162	3	Vertical
2	9830.0714	50.58	-94.05	-43.47	-13.00	30.47	196	230	Vertical
3	11265.27	43.66	-90.97	-47.31	-13.00	34.31	214	325	Vertical
4	13585.6429	44.04	-88.51	-44.47	-13.00	31.47	185	266	Vertical
5	15020.36	41.54	-90.41	-48.87	-13.00	35.87	214	218	Vertical
6	17986.8571	41.50	-83.65	-42.15	-13.00	29.15	211	359	Vertical

Remark: all the antenna were tested, but only showed the worst case in this report.



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## Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.818000	-0.001018	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.985000	-0.001329	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.420000	0.000112	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VH	NT	-3.226000	-0.000860	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VN	NT	3.349000	0.000893	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VL	NT	-5.401000	-0.001440	PASS



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**Frequency Error VS. Temperature**

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.821000	-0.001286	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.296000	-0.000612	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.875000	-0.001833	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	0.315000	0.000084	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.157000	-0.000575	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-11.391000	-0.003038	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	0.145000	0.000039	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-4.794000	-0.001278	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-3.523000	-0.000939	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-30	-8.973000	-0.002393	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-20	-10.809000	-0.002882	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-10	-3.651000	-0.000974	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	0	2.046000	0.000546	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	10	-4.098000	-0.001093	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	20	-5.264000	-0.001404	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	30	-3.130000	-0.000835	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	40	-7.115000	-0.001897	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	50	-5.716000	-0.001524	PASS

The End



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