

**Test Band =NSA DC\_7A-n78A \_ TM1 3450M-3550M\_ANT4\_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	7010.18	47.75	-100.96	-53.21	-13.00	40.21	264	116	Horizontal
2	9314.2143	49.46	-94.75	-45.29	-13.00	32.29	185	339	Horizontal
3	10515.27	43.60	-92.32	-48.72	-13.00	35.72	215	187	Horizontal
4	13114.1429	45.38	-90.12	-44.74	-13.00	31.74	164	139	Horizontal
5	14020.36	43.11	-90.10	-46.99	-13.00	33.99	155	339	Horizontal
6	17525.45	40.27	-86.18	-45.91	-13.00	32.91	188	257	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.18	48.14	-100.96	-52.82	-13.00	39.82	126	3	Vertical
2	9332.2857	48.62	-94.74	-46.12	-13.00	33.12	189	186	Vertical
3	10515.27	44.79	-92.32	-47.53	-13.00	34.53	214	161	Vertical
4	12524.3571	46.05	-90.84	-44.79	-13.00	31.79	196	149	Vertical
5	14020.36	41.70	-90.10	-48.40	-13.00	35.40	218	360	Vertical
6	17525.45	39.51	-86.18	-46.67	-13.00	33.67	145	68	Vertical



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**Test Band =NSA DC\_38A-n78A \_ TM1 3450M-3550M\_ 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	6810.18	49.33	-101.66	-52.33	-13.00	39.33	152	360	Horizontal
2	8750.7143	49.09	-95.91	-46.82	-13.00	33.82	174	212	Horizontal
3	10215.27	44.22	-92.60	-48.38	-13.00	35.38	162	176	Horizontal
4	12315.7143	46.06	-91.22	-45.16	-13.00	32.16	185	3	Horizontal
5	13620.36	44.24	-88.67	-44.43	-13.00	31.43	214	360	Horizontal
6	17025.45	41.84	-88.50	-46.66	-13.00	33.66	188	107	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.18	50.61	-101.66	-51.05	-13.00	38.05	261	3	Vertical
2	9135.1429	47.75	-95.19	-47.44	-13.00	34.44	294	57	Vertical
3	10215.27	43.90	-92.60	-48.70	-13.00	35.70	185	352	Vertical
4	13620.36	43.22	-88.67	-45.45	-13.00	32.45	264	335	Vertical
5	15299.1429	44.29	-90.18	-45.89	-13.00	32.89	185	218	Vertical
6	17025.45	41.98	-88.50	-46.52	-13.00	33.52	214	324	Vertical



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**Test Band =NSA DC\_38A-n78A \_ TM1 3450M-3550M\_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	6910.18	48.24	-101.58	-53.34	-13.00	40.34	126	43	Horizontal
2	9260	49.14	-94.77	-45.63	-13.00	32.63	196	43	Horizontal
3	10365.27	42.08	-92.76	-50.68	-13.00	37.68	214	78	Horizontal
4	12774.0714	46.37	-90.96	-44.59	-13.00	31.59	285	43	Horizontal
5	13820.36	42.59	-90.17	-47.58	-13.00	34.58	145	290	Horizontal
6	17275.45	39.46	-86.62	-47.16	-13.00	34.16	321	21	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.18	48.26	-101.58	-53.32	-13.00	40.32	196	102	Vertical
2	9312.5714	49.10	-94.75	-45.65	-13.00	32.65	218	230	Vertical
3	10365.27	42.92	-92.76	-49.84	-13.00	36.84	214	150	Vertical
4	12475.0714	45.23	-90.66	-45.43	-13.00	32.43	264	356	Vertical
5	13820.36	42.67	-90.17	-47.50	-13.00	34.50	185	359	Vertical
6	17275.45	38.69	-86.62	-47.93	-13.00	34.93	218	126	Vertical



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**Test Band =NSA DC\_38A-n78A \_ TM1 3450M-3550M\_ 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	7010.18	47.75	-100.96	-53.21	-13.00	40.21	264	116	Horizontal
2	9314.2143	49.46	-94.75	-45.29	-13.00	32.29	185	339	Horizontal
3	10515.27	43.60	-92.32	-48.72	-13.00	35.72	215	187	Horizontal
4	13114.1429	45.38	-90.12	-44.74	-13.00	31.74	164	139	Horizontal
5	14020.36	43.11	-90.10	-46.99	-13.00	33.99	155	339	Horizontal
6	17525.45	40.27	-86.18	-45.91	-13.00	32.91	188	257	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.18	48.14	-100.96	-52.82	-13.00	39.82	126	3	Vertical
2	9332.2857	48.62	-94.74	-46.12	-13.00	33.12	189	186	Vertical
3	10515.27	44.79	-92.32	-47.53	-13.00	34.53	214	161	Vertical
4	12524.3571	46.05	-90.84	-44.79	-13.00	31.79	196	149	Vertical
5	14020.36	41.70	-90.10	-48.40	-13.00	35.40	218	360	Vertical
6	17525.45	39.51	-86.18	-46.67	-13.00	33.67	145	68	Vertical



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Report No.: SUAR/2021/C000302  
 Rev.: 01  
 Page: 136 of 140

**Test Band =NSA DC\_41A-n78A \_ TM1 3450M-3550M\_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	6810.18	49.33	-101.66	-52.33	-13.00	39.33	152	360	Horizontal
2	8750.7143	49.09	-95.91	-46.82	-13.00	33.82	174	212	Horizontal
3	10215.27	44.22	-92.60	-48.38	-13.00	35.38	162	176	Horizontal
4	12315.7143	46.06	-91.22	-45.16	-13.00	32.16	185	3	Horizontal
5	13620.36	44.24	-88.67	-44.43	-13.00	31.43	214	360	Horizontal
6	17025.45	41.84	-88.50	-46.66	-13.00	33.66	188	107	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.18	50.61	-101.66	-51.05	-13.00	38.05	261	3	Vertical
2	9135.1429	47.75	-95.19	-47.44	-13.00	34.44	294	57	Vertical
3	10215.27	43.90	-92.60	-48.70	-13.00	35.70	185	352	Vertical
4	13620.36	43.22	-88.67	-45.45	-13.00	32.45	264	335	Vertical
5	15299.1429	44.29	-90.18	-45.89	-13.00	32.89	185	218	Vertical
6	17025.45	41.98	-88.50	-46.52	-13.00	33.52	214	324	Vertical



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**Test Band =NSA DC\_41A-n78A \_ TM1 3450M-3550M\_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	6910.18	48.24	-101.58	-53.34	-13.00	40.34	126	43	Horizontal
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6	17275.45	39.46	-86.62	-47.16	-13.00	34.16	321	21	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.18	48.26	-101.58	-53.32	-13.00	40.32	196	102	Vertical
2	9312.5714	49.10	-94.75	-45.65	-13.00	32.65	218	230	Vertical
3	10365.27	42.92	-92.76	-49.84	-13.00	36.84	214	150	Vertical
4	12475.0714	45.23	-90.66	-45.43	-13.00	32.43	264	356	Vertical
5	13820.36	42.67	-90.17	-47.50	-13.00	34.50	185	359	Vertical
6	17275.45	38.69	-86.62	-47.93	-13.00	34.93	218	126	Vertical



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**Test Band =NSA DC\_41A-n78A \_ TM1 3450M-3550M\_ANT4**  
**Test Channel =High Channel**

Final Data List									
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6	17525.45	39.51	-86.18	-46.67	-13.00	33.67	145	68	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	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-5.034000	-0.001438	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-0.065000	-0.000019	PASS
N78-345 0-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.122000	-0.000892	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-7.836000	-0.002239	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-2.920000	-0.000834	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-8.202000	-0.002343	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	1.269000	0.000363	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-7.840000	-0.002240	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-7.606000	-0.002173	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.363000	-0.001247	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-0.031000	-0.000009	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.211000	-0.000917	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-7.176000	-0.002050	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.079000	-0.000594	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.624000	-0.001321	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-6.297000	-0.001799	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-4.789000	-0.001368	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-0.192000	-0.000055	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-4.675000	0.02357	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-5.933000	-0.001695	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	-5.083000	-0.001452	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	-0.415000	-0.000119	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	1.558000	0.000445	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-6.172000	-0.001763	PASS

The End



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