

FCC TEST REPORT

Name of Sample: Mobile Cellular Phone
Model of Sample: XT2657-1
Applicant: Motorola Mobility LLC
Issue Date: 2025-11-20



ADR TEST AND CERTIFICATION CENTER
Motorola Mobility LLC, a Lenovo Company

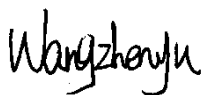
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Phone: (86) 13696970830

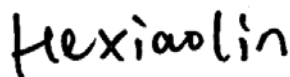
E-mail: suyj3@motorola.com

Name of Client	Motorola Mobility LLC		
Address of Client	222 W, Merchandise Mart Plaza, Chicago IL 60654 USA		
Trademark	Motorola	Type Name or ID	FCC ID: IHDT56AR8
Applicant No.	RF199443	Sample No.	1#: N1MR140006
Delivering Date	2025-11-03	Test Date	2025-11-03 to 2025-11-20
Sample Illustration	None		
Standard	47 CFR Part 2; 47 CFR Part 22; 47 CFR Part 24; 47 CFR Part 27; 47 CFR Part 90;		
Conclusion	Pass		
Remarks	N/A		

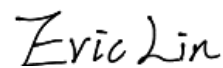
Editor: Wangzhenyu



Reviewer: Hexiaolin



Signatory: HuangshengLin



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Revision History

Report No.	Version	Description	Issued Date
TR-25ADRTCC7014	Rev.01	Initial issue of report	2025-11-20
TR-25ADRTCC7014	Rev.02	Remove the data reuse description, only the verification data kept.	2025-12-17

Catalogue

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1. Test Summary**1.1. 5G NR Band n5/n26**

Test Item	Rule No.	Requirements	Verdict
Frequency Stability	§2.1055 §22.355	< ±2.5ppm	Pass

1.2. 5G NR Band n2

Test Item	Rule No.	Requirements	Verdict
Frequency Stability	§24.235	< ±2.5 ppm	Pass

1.3. 5G NR Band n66

Test Item	Rule No.	Requirements	Verdict
Frequency Stability	§27.54	Within authorized bands	Pass

1.4. 5G NR Band n7/n38/n41

Test Item	Rule No.	Requirements	Verdict
Frequency Stability	§27.54	Within authorized bands	Pass

1.5. 5G NR Band n26 (814-824)

Test Item	Rule No.	Requirements	Verdict
Frequency Stability	§90.213	< ±2.5ppm	PASS

1.6. 5G NR Band n77 (3700-3980)/n78 (3700-3800)

Test Item	Rule No.	Requirements	Verdict
Frequency Stability	§27.54	Within authorized bands	Pass

Remark:

- 1, This is a variant report for XT2657-1, based on the similarity between current and previous project, only battery capacity of the EUT changed from 4200mAh to 4800mAh, and the working voltage changed from 4.48v/3.88v/3.40v to 4.57v/3.80v/3.60v, the other part keeps same, thus, only voltage related cases were tested, the data for previous project can be referred to the original report (conducted NR RPT No.: **TR-24ADRTCC7008**; radiated NR RPT No.: **422203-01**), the detailed difference can refer to the confidential documents (Product Equality Declaration for Merlin(Row) vs Glory(Row))

2. Frequency Stability Data

2.1. NR band n2A (1850-1910)

2.1.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-7.00	-0.003723	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-2.30	-0.001223	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-5.50	-0.002926	Pass

2.1.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-5.10	-0.002713	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-2.00	-0.001064	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	-4.10	-0.002181	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-7.30	-0.003883	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-6.20	-0.003298	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-1.40	-0.000745	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-4.40	-0.002340	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-1.70	-0.000904	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-8.10	-0.004309	Pass

2.2. NR band n5A (824-849)

2.2.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-8.60	-0.010281	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-8.30	-0.009922	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-9.70	-0.011596	Pass

2.2.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-6.40	-0.007651	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-9.00	-0.010759	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	-7.30	-0.008727	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-7.20	-0.008607	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-9.80	-0.011715	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-7.50	-0.008966	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-8.30	-0.009922	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-5.70	-0.006814	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-9.20	-0.010998	Pass

2.3. NR band n7A (2500-2570)

2.3.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-3.30	-0.001302	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-2.00	-0.000789	Pass

15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-1.80	-0.000710	Pass
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2.3.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-7.50	-0.002959	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-9.30	-0.003669	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	-2.70	-0.001065	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-2.60	-0.001026	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-4.70	-0.001854	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-5.70	-0.002249	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-6.00	-0.002367	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-3.40	-0.001341	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-5.30	-0.002091	Pass

2.4. NR band n26A (814-824)**2.4.1. Frequency Error Vs Voltage**

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-5.00	-0.005977	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-5.20	-0.006216	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-6.60	-0.007890	Pass

2.4.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-6.60	-0.007890	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-5.60	-0.006695	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	-7.80	-0.009325	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-7.40	-0.008846	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-6.80	-0.008129	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-7.60	-0.009085	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-8.90	-0.010640	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-6.90	-0.008249	Pass
15KHz	20MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-7.30	-0.008727	Pass

2.5. NR band n38A (2570-2620)**2.5.1. Frequency Error Vs Voltage**

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-5.70	-0.002197	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-3.70	-0.001426	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-2.90	-0.001118	Pass

2.5.1. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-5.30	-0.002042	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	4.80	0.001850	Pass

30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	3.80	0.001464	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-6.20	-0.002389	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-5.00	-0.001927	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-7.80	-0.003006	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-3.30	-0.001272	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-2.80	-0.001079	Pass
30KHz	40MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-5.10	-0.001965	Pass

2.6. NR band n41A (2496-2690)

2.6.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-12.50	-0.004821	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-7.90	-0.003047	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-9.90	-0.003818	Pass

2.6.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-11.00	-0.004242	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-5.10	-0.001967	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	-6.60	-0.002545	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-7.00	-0.002700	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-4.20	-0.001620	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-2.80	-0.001080	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-3.00	-0.001157	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-5.30	-0.002044	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-5.70	-0.002198	Pass

2.7. NR band n41A MIMO (2496-2690)

2.7.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-6.00	-0.002314	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-7.70	-0.002970	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-7.10	-0.002738	Pass

2.7.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-7.80	-0.003008	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-8.90	-0.003432	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	-6.80	-0.002622	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-7.00	-0.002700	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-7.00	-0.002700	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-5.70	-0.002198	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-9.00	-0.003471	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-8.90	-0.003432	Pass

30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-8.20	-0.003162	Pass
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2.8. NR band n66A (1710-1780)**2.8.1. Frequency Error Vs Voltage**

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	5.60	0.003209	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	3.40	0.001948	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-2.20	-0.001261	Pass

2.8.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-1.90	-0.001089	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	1.60	0.000917	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	1.20	0.000688	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	4.60	0.002636	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	3.30	0.001891	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	1.90	0.001089	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	1.70	0.000974	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	1.40	0.000802	Pass
15KHz	40MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	3.00	0.001719	Pass

2.9. NR band n77A (3700-3980)**2.9.1. Frequency Error Vs Voltage**

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-5.00	-0.001302	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-4.80	-0.001250	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-7.50	-0.001953	Pass

2.9.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-4.30	-0.001120	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-4.50	-0.001172	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	-3.50	-0.000911	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	3.40	0.000885	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-5.40	-0.001406	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-9.10	-0.002370	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-6.00	-0.001563	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-3.50	-0.000911	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-3.10	-0.000807	Pass

2.10. NR band n78A (3700-3800)**2.10.1. Frequency Error Vs Voltage**

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-12.10	-0.003227	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-12.00	-0.003200	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-12.00	-0.003200	Pass

2.10.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-8.20	-0.002187	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-10.70	-0.002853	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	-10.30	-0.002747	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-12.10	-0.003227	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-13.60	-0.003627	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-13.50	-0.003600	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-14.70	-0.003920	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-13.00	-0.003467	Pass
30KHz	100MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	-8.50	-0.002267	Pass

3. General Information

3.1. General Description of EUT

EUT Description:	Mobile Cellular Phone
Brand Name:	Motorola
Model Name:	XT2657-1
FCC ID:	IHDT56AR8
IMEI Code:	1#: 356743630002835/356743630002843 (Conducted);
Hardware Version:	DVT1
Software Version:	WWC36.8
NR Modulation:	DFT-s-OFDM: ☒ Pi/2BPSK; ☒ QPSK; ☒ 16QAM; ☒ 64QAM; ☒ 256QAM; CP-OFDM: ☒ QPSK; ☒ 16QAM; ☒ 64QAM; ☒ 256QAM;
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Gain:	n2 (1850-1910): -2.41dBi (Ant0); -3.16dBi (Ant1); -2.28dBi (Ant2); -2.73dBi (Ant3); n5 (824-849): -3.82dBi (Ant0); -4.93dBi (Ant1); n7 (2500-2570): -1.33dBi (Ant0); -1.33dBi (Ant1); -3.56dBi (Ant2); -3.48dBi (Ant3); n26 (814-849): -3.82dBi (Ant0); -4.93dBi (Ant1); n38 (2570-2620): 0.01dBi (Ant0); -0.66dBi (Ant1); -3.13dBi (Ant2); -3.30dBi (Ant3); n41 (2496-2690): 0.01dBi (Ant0); -0.66dBi (Ant1); -3.13dBi (Ant2); -3.30dBi (Ant3); n66 (1710-1780): -2.18dBi (Ant0); -1.88dBi (Ant1); -2.18dBi (Ant2); -3.41dBi (Ant3); n77 (3700-3980): -5.82dBi (Ant3); -1.89dBi (Ant4); -2.96dBi (Ant6); -3.00dBi (Ant8); n78 (3700-3800): -5.82dBi (Ant3); -1.89dBi (Ant4); -2.96dBi (Ant6); -3.00dBi (Ant8);

Remark

- The information above was declared by manufacture. Please refer to the specifications or user manual for more detailed description.

3.2. Test Environment

Relative Humidity:	52.0% - 62.0%	
Atmospheric Pressure:	101.32 KPa	
Temperature:	NT (normal temperature)	25.0 °C – 27.5 °C
Voltage:	LV (Low voltage)	3.60V
	NV (Nominal voltage)	3.80V
	HV (High voltage)	4.57V

3.3. Specification of Accessories

Accessory	Brand Name	Model Name
AC Adapter 1 (US)	Motorola (Salcomp)	MC-331L
AC Adapter 2 (EU)	Motorola (Salcomp)	MC-332L
AC Adapter 3 (UK)	Motorola (Salcomp)	MC-333L
AC Adapter 4 (AR)	Motorola (Salcomp)	MC-336L
AC Adapter 5 (BR)	Motorola (Salcomp)	MC-337L
AC Adapter 6 (CHILE)	Motorola (Salcomp)	MC-339L
AC Adapter 7 (US)	Motorola (Chenyang)	MC-331L
AC Adapter 8 (EU)	Motorola (Chenyang)	MC-332L
AC Adapter 9 (UK)	Motorola (Chenyang)	MC-333L

AC Adapter 10 (AR)	Motorola (Chenyang)	MC-336L
AC Adapter 11 (BR)	Motorola (Chenyang)	MC-337L
Battery 1	Motorola	SM12
Battery 2	Motorola	SM36
USB Cable 1	Saibao	SC18D22297
USB Cable 2	Cabletech	SC18D22298
USB Cable 3	Saibao	SC18D86732
USB Cable 4	Cabletech	SC18E05246

4. Test Configuration of Equipment Under Test

4.1. Test Mode for NR Configuration

Test Case	5G NR	SCS		Bandwidth	Modulation					Channel			RB	
		15KHz	30KHz		PI/2BPSK	QPSK	16QAM	64QAM	256QAM	LCH	MCH	HCH	1	Full
Frequency Stability	N2 (1850-1910)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	●
	N5 (824-849)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	●
	N7 (2500-2570)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	●
	N26 (814-824)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	●
	N26 (824-849)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	●
	N38 (2570-2620)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	●
	N41 (2496-2690)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	●
	N66 (1710-1780)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	●
	N77 (3700-3980)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	●
	N78(3700-3800)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	●

Remark:

- the mark “●” means this configuration was chosen for testing, mark “○” means not selected, and the mark “✕” means not applicable.
- All Supported BW means all supported bandwidth for selected SCS configuration.

4.2. Test Frequencies

4.2.1 5G NR System

4.2.1.1. NR Band n2 (1850-1910)

4.2.1.1.1. SCS=15KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	370500	1852.5	376000	1880.0	381500	1907.5
10MHz	371000	1855.0	376000	1880.0	381000	1905.0
15MHz	371500	1857.5	376000	1880.0	380500	1902.5
20MHz	372000	1860.0	376000	1880.0	380000	1900.0
25MHz	372500	1862.5	376000	1880.0	379500	1897.5
30MHz	373000	1865.0	376000	1880.0	379000	1895.0
35MHz	373500	1867.5	376000	1880.0	378500	1892.5
40MHz	374000	1870.0	376000	1880.0	378000	1890.0

4.2.1.2. NR Band n5 (824-849)**4.2.1.2.1. SCS=15KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	165300	826.5	167300	836.5	169300	846.5
10MHz	165800	829.0	167300	836.5	168800	844.0
15MHz	166300	831.5	167300	836.5	168300	841.5
20MHz	166800	834.0	167300	836.5	167800	839.0

4.2.1.3. NR Band n7 (2500-2570)**4.2.1.3.1. SCS=15KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	500500	2502.5	507000	2535.0	513500	2567.5
10MHz	501000	2505.0	507000	2535.0	513000	2565.0
15MHz	501500	2507.5	507000	2535.0	512500	2562.5
20MHz	502000	2510.0	507000	2535.0	512000	2560.0
25MHz	502500	2512.5	507000	2535.0	511500	2557.5
30MHz	503000	2515.0	507000	2535.0	511000	2555.0
35MHz	503500	2517.5	507000	2535.0	510500	2552.5
40MHz	504000	2520.0	507000	2535.0	510000	2550.0
50MHz	505000	2525.0	507000	2535.0	509000	2545.0

4.2.1.4. NR Band n26 (814-824)**4.2.1.4.1. SCS=15KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	163300	816.5	163800	819.0	164300	821.5
10MHz	163800	819.0	163800	819.0	163800	819.0
15MHz	164300	821.5	164300	821.5	164300	821.5
20MHz	164800	824.0	164800	824.0	164800	824.0

4.2.1.5. NR Band n26 (824-849)**4.2.1.5.1. SCS=15KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	165300	826.5	167300	836.5	169300	846.5
10MHz	165800	829.0	167300	836.5	168800	844.0
15MHz	166300	831.5	167300	836.5	168300	841.5
20MHz	166800	834.0	167300	836.5	167800	839.0

4.2.1.6. NR Band n38 (2570-2620)**4.2.1.6.1. SCS=30KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	515000	2575.0	519000	2595.0	523000	2615.0
15MHz	515500	2577.5	519000	2595.0	522500	2612.5
20MHz	516000	2580.0	519000	2595.0	522000	2610.0
25MHz	516500	2582.5	519000	2595.0	521500	2607.5
30MHz	517000	2585.0	519000	2595.0	521000	2605.0
40MHz	518000	2590.0	519000	2595.0	520000	2600.0

4.2.1.7. NR Band n41 (2496-2690)**4.2.1.7.1. SCS=30KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	500202	2501.01	518598	2592.99	537000	2685.00
15MHz	500700	2503.50	518598	2592.99	536496	2682.48
20MHz	501204	2506.02	518598	2592.99	535998	2679.99
25MHz	501702	2508.01	518598	2592.99	535500	2677.50
30MHz	502200	2511.00	518598	2592.99	534996	2674.98
35MHz	502701	2513.505	518598	2592.99	534500	2672.50
40MHz	503202	2516.01	518598	2592.99	534000	2670.00
45MHz	503700	2518.50	518598	2592.99	533500	2667.50
50MHz	504204	2521.02	518598	2592.99	532998	2664.99
60MHz	505200	2526.00	518598	2592.99	531996	2659.98
70MHz	506202	2531.01	518598	2592.99	531000	2655.00
80MHz	507204	2536.02	518598	2592.99	529998	2649.99
90MHz	508200	2541.00	518598	2592.99	528996	2644.98
100MHz	509202	2546.01	518598	2592.99	528000	2640.00

4.2.1.8. NR Band n66 (1710-1780)**4.2.1.8.1. SCS=15KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	342500	1712.5	349000	1745.0	355500	1777.5
10MHz	343000	1715.0	349000	1745.0	355000	1775.0
15MHz	343500	1717.5	349000	1745.0	354500	1772.5
20MHz	344000	1720.0	349000	1745.0	354000	1770.0
25MHz	344500	1722.5	349000	1745.0	353500	1767.5
30MHz	345000	1725.0	349000	1745.0	353000	1765.0
35MHz	345500	1727.5	349000	1745.0	352500	1762.5
40MHz	346000	1730.0	349000	1745.0	352000	1760.0

4.2.1.9. NR Band N77 (3700-3980)**4.2.1.9.1. SCS=30KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	647000	3705.00	656000	3840.00	665000	3975.00
15MHz	647168	3707.52	656000	3840.00	664832	3972.48
20MHz	647334	3710.01	656000	3840.00	664666	3969.99
25MHz	647500	3712.50	656000	3840.00	664500	3967.50
30MHz	647668	3715.02	656000	3840.00	664332	3964.98
40MHz	648000	3720.00	656000	3840.00	664000	3960.00
50MHz	648334	3725.01	656000	3840.00	663666	3954.99
60MHz	648668	3730.02	656000	3840.00	663332	3949.98
70MHz	649000	3735.00	656000	3840.00	663000	3945.00
80MHz	649334	3740.01	656000	3840.00	662666	3939.99
90MHz	649668	3745.02	656000	3840.00	662332	3934.98
100MHz	650000	3750.00	656000	3840.00	662000	3930.00

4.2.1.10. NR Band N78 (3700-3800)**4.2.1.10.1. SCS=30KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	647000	3705.00	650000	3750.00	653000	3795.00
15MHz	647168	3707.52	650000	3750.00	652832	3792.48
20MHz	647334	3710.01	650000	3750.00	652666	3789.99
25MHz	647500	3712.50	650000	3750.00	652500	3787.50
30MHz	647668	3715.02	650000	3750.00	652332	3784.98
40MHz	648000	3720.00	650000	3750.00	652000	3780.00
50MHz	648334	3725.01	650000	3750.00	651666	3774.99
60MHz	648668	3730.02	650000	3750.00	651332	3769.98
70MHz	649000	3735.00	650000	3750.00	651000	3765.00
80MHz	649334	3740.01	650000	3750.00	650666	3759.99
90MHz	649668	3745.02	650000	3750.00	650332	3754.98
100MHz	650000	3750.00	650000	3750.00	650000	3750.00

5. Description of Tests**5.1. Frequency Stability Measurement****5.1.1. Description of Frequency Stability Measurement**

The Frequency Stability should be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emissions stays within the authorized frequency block

5.1.2. Measurement Procedure for Temperature Variation

- 1, The testing follows ANSI C63.26 section 5.6.4.
- 2, The EUT was set up in the thermal chamber and connected with the system simulator.
- 3, With power off, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.

- 4, With power off, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum change in frequency was recorded within one minute.

5.1.3. Measurement Procedure for Voltage Variation

- 1, The testing follows ANSI C63.26 section 5.6.5.
- 2, The EUT was placed in a thermal chamber at 20±5°C and connected with the system simulator.
- 3, The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 4, For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5, The variation in frequency was measured for the worst case.

6. List of Measuring Equipment

Equipment	Model	Manufacture	Device No.	Cal Date	Cal Due
Radio Communication Analyzer	MT8000A	Anritsu	6272427164	2025-11-06	2026-11-05
	MT8000A	Anritsu	6272354086	2025-07-03	2026-07-02
	MT8821C	Anritsu	6272374630	2025-11-06	2026-11-05
Spectrum Analyzer (50Hz-40GHz)	FSV	R&S	101046	2025-11-05	2026-11-04
Spectrum Analyzer (50Hz-40GHz)	FSV	R&S	101334	2025-11-04	2026-11-03
Power Supply	2036	Keithley	4058748	2025-11-07	2026-11-06
Temperature Chamber	C/64/40/3	Weiss	56246017780020	2025-03-24	2026-03-25
Power Divider	-	WOKEN	0120A04051801O	NCR	
Power Divider	-	WOKEN	0120A02051801M	NCR	

Remark:

- 1, For equipment listed above that has a calibration date or calibration due date that falls within the test date range, and the equipment was used after calibrate date and before calibrate due date.
- 2, "NCR" means no calibration required.

7. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26. All the measurement uncertainties value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be directly to specified limit to determine compliance.

7.1. Uncertainty of Conducted Measurement

Contribution	Expanded Uncertainty
Conducted Power	± 1.09 dB
Peak-to-Average Ratio	± 2.28 dB
Channel Bandwidth	± 0.15% MHz
Conducted Emission (f <1GHz)	± 2.23 dB
Conducted Emission (1GHz < f <18GHz)	± 2.24 dB
Conducted Emission (18GHz < f <40GHz)	± 2.11 dB
Frequency	± 0.02 KHz

The End