

Report No.: SEWA2211000080RG02

Rev.: 01

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TEST REPORT

Application No.: SEWA2211000080RG

Applicant: Continental Automotive Systems, Inc.

Address of Applicant: 21440 West Lake Cook, Deer Park, Illinois 60010, USA

Manufacturer: Continental Automotive Systems, Inc.

Address of Manufacturer: 21440 West Lake Cook, Deer Park, Illinois 60010, USA

EUT Description: FE5NAR131A

Model No.: FE5NAR131A

Trade Mark: Continental

FCC ID: LHJ-FE5NAR131A

Standards: 47 CFR Part 2

47 CFR Part 22 47 CFR Part 24 47 CFR Part 27

Date of Receipt: 2023/02/01

Date of Test: 2023/02/02 to 2023/09/05

Date of Issue: 2023/09/05

Test Result: PASS *

Authorized Signature:

well wei

Well Wei Wireless Laboratory Manager



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215000 t (86–512) 62992980 215000 t (86–512) 62992980

^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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Revision Record						
Version	Version Chapter Date Modifier Remark					
01		2023/09/05		Original		

Prepared By	(Levi Li) / Test Engineer
Checked By	Stone Gu) / Reviewer



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2 Test Summary

2.1 ENDC_2A_n5A

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Section 1 of Appendix B.23	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B.23	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.23	Pass
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 4 of Appendix B.23	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.23	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 6 of Appendix B.23	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Section 7 of Appendix B.23	Pass



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2.2 NR Band n41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix B.18	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B.18	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.18	Pass
Band Edges Compliance	§2.1051, §27.53(m4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as de ned in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.	Section 4 of Appendix B.18	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge · · · · · · · · · · · · · · · · · · ·	Section 5 of Appendix B.18	Pass
Field Strength §2.1053, §27.53(m)		Channel Edge	Section 6 of Appendix B.18	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.18	Pass



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2.3 NR Band n25/ ENDC_5A_n2A

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Section 1 of Appendix B.17&B.22	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B.17&B.22	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.17&B.22	Pass
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 4 of Appendix B.17&B.22	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.17&B.22	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.17&B.22	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.17&B.22	Pass



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2.4 NR Band n66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Section 1 of Appendix B.19	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B.19	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.19	Pass
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 4 of Appendix B.19	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.19	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.19	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.19	Pass



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2.5 NR Band n71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W	Section 1 of Appendix B.20	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.20	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.20	Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 4 of Appendix B.20	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.20	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.20	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the authorized bands of operation.	Section 7 of Appendix B.20	Pass



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2.6 NR Band n77

3700-3980MHz:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	Section 1 of Appendix B.21	Pass
Peak- Average Ratio		≤13 dB	Section 2 of Appendix B.21	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.21	Pass
Band Edges Compliance	§2.1051, §27.53(I)(2)	(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed - 13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.	Section 4 of Appendix B.21	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.	Section 5 of Appendix B.21	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(I)(2)	not exceed -13 dBm/MHz	Section 6 of Appendix B.21	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.21	Pass



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3 General Information

3.1 Client Information

Applicant:	Continental Automotive Systems, Inc.
Address of Applicant:	21440 West Lake Cook, Deer Park, Illinois 60010, USA
Manufacturer:	Continental Automotive Systems, Inc.
Address of Manufacturer:	21440 West Lake Cook, Deer Park, Illinois 60010, USA

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Levi Li, King-p Li

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

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Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	FE5NAR131A				
Model No.:	FE5NAR131A				
Trade Mark:	Continental				
Hardware Version:	P1.1				
Software Version:	MODEMSA515M_L	E.2.1_01	18.02		
Power Supply:	DC 14V				
INACI.	RF Conducted 355425590000170				
IMEI:	RSE	3554255	90000204		
Antenna Type:	⊠External, □Inte	⊠External, □Integrated			
HPUE Power Class:	NR Band n77				
	NR Band n2:	1.93dBi (Ant1)			
	NR Band n5: 2.56dBi (Ant1)				
	NR Band n25: 1.93dBi (Ant1)				
	NR Band n41: 1.24dBi (Ant1)				
Antenna Gain:	NR Band n66:	NR Band n66: 1.93dBi (Ant1)			
	NR Band n71:	0.91dBi (Ant1)			
	NR Band n77:	-0.84dBi	(Ant2)		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.				
DE O. I.I.	0.8dB (Below 1GHz	<u>z</u>)	1.0dB (1.0~2.4GHz)	1.2dB (2.4~3.4GHz)	
RF Cable:	1.5dB (Above 3.4GHz)				
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3.5 Test Mode

Test Mode	Test Modes Description
NR/TM1	NR system, DFT-s-Pi/2-BPSK modulation
NR/TM2	NR system, DFT-s-QPSK modulation
NR/TM3	NR system, DFT-s-16QAM modulation
NR/TM4	NR system, DFT-s-64QAM modulation
NR/TM5	NR system, DFT-s-256QAM modulation
NR/TM6	NR system, CP-QPSK modulation
NR/TM7	NR system, CP-16QAM modulation
NR/TM8	NR system, CP-64QAM modulation
NR/TM9	NR system, CP-256QAM modulation
Remark: The test mode(s)	are selected according to relevant radio technology specifications.

3.6 Test Environment

NT: Normal Temperature

Environment Parameter	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 % F	RH Ambient	
Value	Temperature(°C)	Voltage(Vdc)	
NTNV	22~23	4.0	
LTLV	-30	3.8	
LTHV	-30	4.2	
HTLV	50	3.8	
HTHV	50	4.2	
Remark:			
NV: Normal Voltage LV: Lov	w Extreme Test Voltage H	V: High Extreme Test Voltage	

LT: Low Extreme Test Temperature

3.7 Description of Support Units

The EUT has been tested as an independent unit.



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HT: High Extreme Test Temperature



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3.8 Technical Specification

Characteristics	Description					
Radio System Type	⊠ SA ⊠ NSA					
	Band	TX		RX		
	NR Band n2	1850 to 1910 MHz		1930 to 1990) MHz	
	NR Band n5	824 to 849 M	1Hz	869 to 894 N	1Hz	
	NR Band n25	1850 to 1915	5MHz	1930 to 1995	5 MHz	
	NR Band n41	2496 to 2690) MHz	2496 to 2690) MHz	
	NR Band n66	1710 to 1780) MHz	2110 to 2180) MHz	
	NR Band n71	663 to 698 M	1Hz	617 to 652 M	1Hz	
Supported Frequency	NR Band n77	3700 to 3980) MHz	3700 to 3980) MHz	
Range	ENDC:					
	DC_5A_n2A; DC_12	2A_n2A; DC_1	3A_n2A; DC_1	4A_n2A; DC_7	1A_n2A;	
	DC_2A_n5A; DC_7A_n5A; DC_66A_n5A;					
	DC_5A_n41A; DC_12A_n41A; DC_26A_n41A; DC_71A_n41A;					
	DC_5A_n66A; DC_12A_n66A; DC_13A_n66A; DC_14A_n66A; DC_71A_n66A;					
	DC_2A_n71A; DC_7A_n71A; DC_66A_n71A;					
	DC_2A_n77A; DC_5A_n77A; DC_7A_n77A; DC_12A_n77A; DC_13A_n77A;					
	DC_14A_n77A; DC_26A_n77A; DC_41A_n77A; DC_66A_n77A;					
	ND Dand no	SCS 15kHz:				
	NR Band n2	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
	ND Dand nE	SCS 15kHz:				
	NR Band n5	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
		SCS 15kHz:				
	NR Band n25	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
		⊠25 MHz	⊠30 MHz	⊠40 MHz		
Supported Channel Bandwidth		SCS 30kHz:				
Banawiati	NR Band n41	⊠20 MHz	⊠30 MHz	⊠40 MHz	⊠50 MHz	
		⊠60 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz	
		SCS 15kHz:				
	NR Band n66	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
		⊠40 MHz				
	ND David 74	SCS 15kHz:				
	NR Band n71	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	



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		SCS 30kHz			
	NR Band n77 (3700~3980)	⊠20 MHz	⊠30 MHz	⊠40 MHz	⊠50 MHz
	(2.00 000)	⊠60 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz
		DFT-s-Pi/2- BPSK	CP-16QAM		
		SCS 15kHz:			
	ENDC_5A_n2A	4M47G7D	4M48W7D		
		8M91G7D	9M28W7D		
		13M4G7D	14M1W7D		
		17M9G7D	19M0W7D		
		SCS 15kHz:			
		4M47G7D	4M48W7D		
	ENDC_2A_n5A	8M95G7D	9M30W7D		
		13M4G7D	14M1W7D		
		17M8G7D	19M0W7D		
Designation of	NR Band n25	SCS 15kHz:			
Emissions		4M47G7D	4M50W7D		
(Remark: the necessary		8M91G7D	9M27W7D		
bandwidth of which is the worst value from		13M4G7D	14M1W7D		
the measured occupied		17M9G7D	18M9W7D		
bandwidths for each		22M9G7D	23M8W7D		
type of channel bandwidth		28M6G7D	28M6W7D		
configuration.)		38M5G7D	38M5W7D		
,		SCS 30kHz:			
		17M9G7D	18M3W7D		
		26M8G7D	27M8W7D		
		35M7G7D	37M8W7D		
	NR Band n41	45M8G7D	47M5W7D		
		57M8G7D	57M8W7D		
		77M0G7D	77M4W7D		
		85M8G7D	87M2W7D		
		96M4G7D	97M4W7D		
		SCS 15kHz:			
	NR Band n66	4M47G7D	4M48W7D		
		4M46G7D	4M48W7D		



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		ı ugu.	10 01 00
81	M92G7D	9M27W7D	
13	3M4G7D	14M2W7D	
17	7M9G7D	18M9W7D	
38	3M4G7D	38M5W7D	
SC	CS 15kHz:		
41	M47G7D	4M49W7D	
d n71 8N	M92G7D	9M27W7D	
13	3M4G7D	14M1W7D	
17	7M8G7D	18M9W7D	
SC	CS 30kHz:		
17	7M8G7D	18M3W7D	
26	6M8G7D	27M9W7D	
	5M8G7D	37M8W7D	
1/16	5M7G7D	47M5W7D	
	7M9G7D	57M8W7D	
77	7M1G7D	77M7W7D	
85	5M7G7D	87M3W7D	
96	6M4G7D	97M6W7D	
	13 17 38 41 41 41 13 17 26 35 45 9980) 57 85	13M4G7D 17M8G7D SCS 30kHz: 17M8G7D 26M8G7D 35M8G7D	8M92G7D 9M27W7D 13M4G7D 14M2W7D 17M9G7D 18M9W7D 38M4G7D 38M5W7D SCS 15kHz: 4M47G7D 4M49W7D 8M92G7D 9M27W7D 13M4G7D 14M1W7D 17M8G7D 18M9W7D SCS 30kHz: 17M8G7D 18M3W7D 26M8G7D 27M9W7D 35M8G7D 37M8W7D 45M7G7D 47M5W7D 77M1G7D 77M7W7D 85M7G7D 87M3W7D



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3.9 Test Frequencies

3.10 Test Frequencies

3.10.1 Reference test frequencies for NR operating band n2

3.10.1.1 Test frequencies for NR operating band n2 and SCS 15 kHz

3.10.1.1 Test frequencies for NR operating band n2 and SCS 15 KHZ						
CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]	
		Low	1932.5	386500		
	Downlink	Mid	1960	392000	15	
5		High	1987.5	397500		
3		Low	1852.5	370500		
	Uplink	Mid	1880	376000	-	
		High	1907.5	381500		
		Low	1935	387000		
	Downlink	Mid	1960	392000	15	
10		High	1985	397000		
10		Low	1855	371000		
	Uplink	Mid	1880	376000	-	
		High	1905	381000		
		Low	1937.5	387500		
	Downlink	Mid	1960	392000	15	
15		High	1982.5	396500		
13		Low	1857.5	371500		
	Uplink	Mid	1880	376000	-	
		High	1902.5	380500		
		Low	1940	388000		
	Downlink	Mid	1960	392000	15	
20		High	1980	396000		
20		Low	1860	372000		
	Uplink	Mid	1880	376000	_	
	·	High	1900	380000		



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3.10.2 Reference test frequencies for NR operating band n5

3.10.2.1 Test frequencies for NR operating band n5 and SCS 15 kHz

CBW [MHz]	Range	<u> </u>	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	871.5	174300	
	Downlink	Mid	881.5	176300	15
5		High	891.5	178300	
3		Low	826.5	165300	
	Uplink	Mid	836.5	167300	-
		High	846.5	169300	
		Low	874	174800	
	Downlink	Mid	881.5	176300	15
10		High	889	177800	
10		Low	829	165800	
	Uplink	Mid	836.5	167300	-
		High	844	168800	
		Low	876.5	175300	
	Downlink	Mid	881.5	176300	15
15		High	886.5	177300]
15		Low	831.5	166300	
	Uplink	Mid	836.5	167300	-
		High	841.5	168300]
		Low	879	175800	
20	Downlink	Mid	881.5	176300	15
		High	884	176800]
		Low	834	166800	
	Uplink	Mid	836.5	167300] -
		High	839	167800	



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3.10.3 Reference test frequencies for NR operating band n25

3.10.3.1 Test frequencies for NR operating band n25 and SCS 15 kHz

CBW	Range		Carrier centre	Carrier centre	SS block SCS
[MHz]	Kange	•	[MHz]	[ARFCN]	[kHz]
[IVITIZ]		Low	1932.5	386500	[KIIZ]
	Downlink	Mid	1962.5	392500	15
	DOWIIIIK	High	1992.5	398500	- 13
5		Low	1852.5	370500	
	Uplink	Mid	1882.5	376500	_
	Оршк	High	1912.5	382500	-
		Low	1935	387000	
	Downlink	Mid	1962.5	392500	15
	DOWIIIIK	High	1902.3	398000	- 13
10		Low	1855	371000	
	Uplink	Mid	1882.5	376500	_
	Оршк	High	1910	382000	-
		Low	1937.5	387500	
	Downlink	Mid	1962.5	392500	15
	DOWNIIIK		1987.5	397500	- 13
15		High Low	1857.5	371500	
	Linlink	Mid	1882.5	376500	_
	Uplink				-
		High	1907.5 1940	381500	
	D limite	Low		388000	4.5
	Downlink	Mid	1962.5	392500	15
20		High	1985	397000	
		Low	1860	372000	
	Uplink	Mid	1882.5	376500	-
		High	1905	381000	
		Low	1942.5	388500	
	Downlink	Mid	1962.5	392500	15
25		High	1982.5	396500	
		Low	1862.5	372500	
	Uplink	Mid	1882.5	376500	-
		High	1902.5	380500	
		Low	1945	389000	
	Downlink	Mid	1962.5	392500	15
30		High	1980	396000	
		Low	1865	373000	_
	Uplink	Mid	1882.5	376500	
		High	1900	380000	
		Low	1950	390000	_
	Downlink	Mid	1962.5	392500	15
40		High	1975	395000	
40	Low 187	1870	374000		
	Uplink	Mid	1882.5	376500	┦ -
	op	High	1895	379000	1



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3.10.4 Reference test frequencies for NR operating band n41 3.10.4.1 Test frequencies for NR operating band n41 and SCS 30 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	2506.02	501204	
20	&	Mid	2592.99	518598	30
	Uplink	High	2670	534000	
	Downlink	Low	2511	502200	
30	&	Mid	2592.99	518598	30
	Uplink	High	2675	535000	
	Downlink	Low	2516.01	503202	
40	&	Mid	2592.99	518598	30
	Uplink	High	2670	534000	1
	Downlink	Low	2521.02	504204	
50	&	Mid	2592.99	518598	30
	Uplink	High	2664.99	532998	1
	Downlink	Low	2526	505200	
60	&	Mid	2592.99	518598	30
	Uplink	High	2659.98	531996	1
	Downlink	Low	2536.02	507204	
80	&	Mid	2592.99	518598	30
	Uplink	High	2649.99	529998	1
	Downlink	Low	2541	508200	
90	&	Mid	2592.99	518598	30
	Uplink	High	2644.98	528996	1
	Downlink	Low	2546.01	509202	
100	&	Mid	2592.99	518598	30
	Uplink	High	2640	528000	



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3.10.5 Reference test frequencies for NR operating band n66

3.10.5.1 Test frequencies for NR operating band n66 and SCS 15 kHz

CBW	Range Carrier centre Carrier centre			SS block SCS	
[MHz]	Kange		[MHz]	[ARFCN]	[kHz]
[2]		Low	2112.5	422500	[111.12]
	Downlink	Mid	2145	429000	15
_		High	2177.5	435500	
5		Low	1712.5	342500	
	Uplink	Mid	1745	349000	_
	'	High	1777.5	355500	
		Low	2115	423000	
	Downlink	Mid	2145	429000	15
40		High	2175	435000	
10		Low	1715	343000	
	Uplink	Mid	1745	349000	_
	·	High	1775	355000	
		Low	2117.5	423500	
	Downlink	Mid	2145	429000	15
15		High	2172.5	434500	
15		Low	1717.5	343500	
	Uplink	Mid	1745	349000	-
	•	High	1772.5	354500	
		Low	2120	424000	
	Downlink	Mid	2145	429000	15
20		High	2170	434000	
20		Low	1720	344000	
	Uplink	Mid	1745	349000	-
		High	1770	354000	
		Low	2130	426000	
40	Downlink Mid	Mid	2145	429000	15
		High	2160	432000	
40		Low	1730	346000	
	Uplink	Mid	1745	349000	_
		High	1760	352000	



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3.10.6 Reference test frequencies for NR operating band n71 3.10.6.1 Test frequencies for NR operating band n71 and SCS 15 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	619.5	123900	
	Downlink	Mid	634.5	126900	15
5		High	649.5	129900	
3		Low	665.5	133100	
	Uplink	Mid	680.5	136100	-
		High	695.5	139100	
		Low	622	124400	
	Downlink	Mid	634.5	126900	15
10		High	647	129400	
10		Low	668	133600	
	Uplink	Mid	680.5	136100	-
	-	High	693	138600	
		Low	624.5	124900	15
	Downlink	Mid	634.5	126900	
15		High	644.5	128900	
15		670.5	134100		
	Uplink	Mid	680.5	136100	-
	-	High	690.5	138100	
		Low	627	125400	
	Downlink	Mid	634.5	126900	15
20		High	642	128400	
20	20	Low	673	134600	
	Uplink	Mid	680.5	136100	-
		High	688	137600	



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3.10.7 Reference test frequencies for NR operating band n77 3.10.7.1 Test frequencies for NR operating band n77 and SCS 30 kHz

3700-3980:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3710.01	647334	
20	&	Mid	3840	656000	30
	Uplink	High	3969.99	664666	
	Downlink	Low	3714.99	647666	
30	&	Mid	3840	656000	30
	Uplink	High	3965.01	664334	
	Downlink	Low	3720	648000	
40	&	Mid	3840	656000	30
	Uplink	High	3960	664000	
	Downlink	Low	3725.01	648334	30
50	&	Mid	3840	656000	
	Uplink	High	3954.99	663666	
	Downlink	Low	3730.02	648668	
60	&	Mid	3840	656000	30
	Uplink	High	3949.98	663332	
	Downlink	Low	3740.01	649334	
80	&	Mid	3840	656000	30
	Uplink	High	3939.99	662666	
	Downlink	Low	3745.02	649668	
90	&	Mid	3840	656000	30
	Uplink	High	3934.98	662332	
	Downlink	Low	3750	650000	
100	&	Mid	3840	656000	30
	Uplink	High	3930	662000	



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4 Description of Tests

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1



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4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB



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4.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Remark: Reference test setup 1

Test Settings

- The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
 - 1 5% of the 99% occupied bandwidth observed in Step 7



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4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold

Remark: Reference test setup 1

Test Settings

- Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- VBW > 3 x RBW
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- Sweep time = auto couple
- 9. The trace was allowed to stabilize



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4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Remark: Reference test setup 1

Test Settings

- 1. Start frequency was set to 9kHz and stop frequency was set to at least 10* the fundamental frequency(Separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissinos, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings



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4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

Remark: Reference test setup 1

Test Settings

- The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



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4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case. Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

E (dB μ V/m) = Measured amplitude level (μ V/m) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dBμV/m) + 20 log D - 104.8; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

E (dBμV/m) = Measured amplitude level (dBμV) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ V/m) + 20 log D - 104.8; where D is the measurement distance in meters

- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Remark: Reference test setup 2

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

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than

20dB below the limit need not be reported.

3) All modes have been tested, but only the worst case data displayed in this report.



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4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01 Section 9

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3





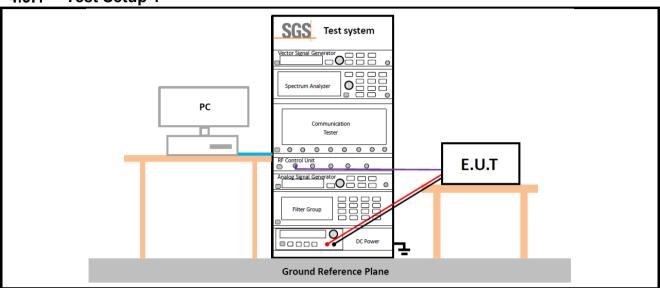
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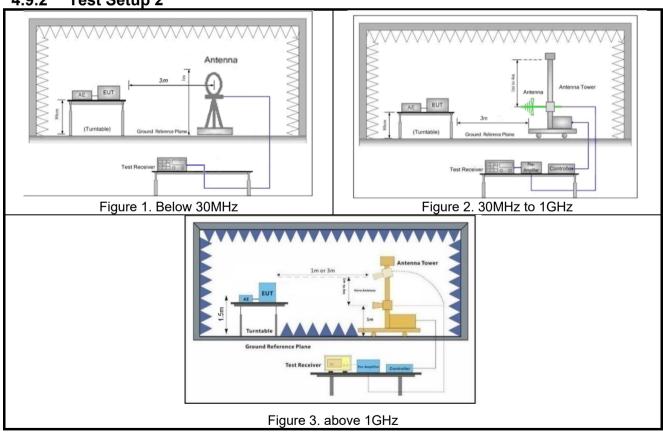
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4.9 Test Setups

Test Setup 1 4.9.1



4.9.2 Test Setup 2





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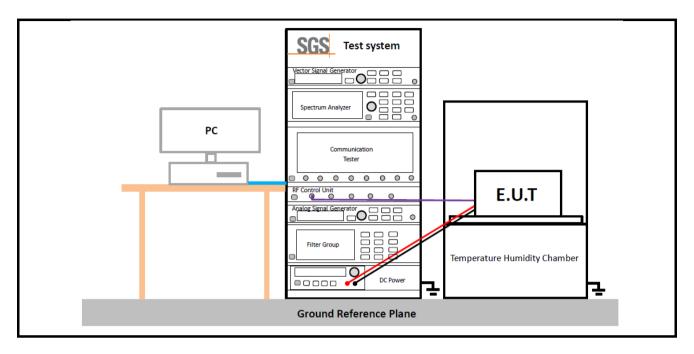


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4.9.3 Test Setup 3





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4.10 Test Conditions

	Transmit Output Power Data - Average Power, Total			
Test Case	Test Conditions			
Test Environment	Ambient Climate & Rated Voltage			
Test Setup	Test Setup 1			
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)			
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5			
	Peak-to-Average Ratio			
Test Case	Test Conditions			
Test Environment	Ambient Climate & Rated Voltage			
Test Setup	Test Setup 1			
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)			
Test Mode	NR/TM5; NR/TM9			
	Bandwidth - Occupied Bandwidth			
Test Case	Test Conditions			
Test Environment	Ambient Climate & Rated Voltage			
Test Setup	Test Setup 1			
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)			
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9			
	Bandwidth - Emission Bandwidth			
Test Case	Test Conditions			
Test Environment	Ambient Climate & Rated Voltage			
Test Setup	Test Setup 1			
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)			
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9			
	Band Edges Compliance			
Test Case	Test Conditions			
Test Environment	Ambient Climate & Rated Voltage			
Test Setup	Test Setup 1			
RF Channels (TX)	L, H (L= low channel, H= high channel)			
Test Mode	NR/TM1; NR/TM6			
	Spurious Emission at Antenna Terminals			
Test Case	Test Conditions			



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	1 ago: 00 01 00
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	NR/TM1
	Field Strength of Spurious Radiation
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 2
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	NR/TM1 Remark: All bandwidth and modulation of NR have been pre tested, and only the worst results are reflected in the report.
	Frequency Stability
Test Case	Test Conditions
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage
rest Environment	(2) VL, VN and VH of Rated Voltage at Ambient Climate.
Test Setup	Test Setup 3
RF Channels (TX)	M (M= middle channel)
Test Mode	NR/TM1 The report only show the bandwidth with the worst case.



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5 Main Test Instruments

	RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07	
Temperature and	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15	
humidity meter	WilligGao	ТПТОТЬ	3011-01-01	2023/02/06	2024/02/05	
Signal Analyzor	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16	
Signal Analyzer	ROHDE&SCHWARZ	F3 V3030	30771-01-02-02	2023/05/11	2024/05/10	
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR	
Radio Communication Analyzer	Anritsu	MT8821C	SUWI-01-26-03	2022/11/23	2023/11/22	
Wideband Radio	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13	
Communication Tester	ROHDE&SCHWARZ	OWW	30771-01-10-03	2023/02/06	2024/02/05	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14	
DC Power Supply	HYELEC	H 1 3003B	30771-01-10-01	2023/02/06	2024/02/05	
Tomporature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14	
Temperature Chamber	ESPEC	30-242	30771-01-13-01	2023/02/06	2024/02/05	
Wideband Radio Communication Test Ststion	Anritsu	MT8000A	SUWI-01-34-02	2022/09/16	2023/09/15	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Signal Analyzei	ROTIDEQUETIVARE	F3443	30 ((1-02-04	2023/05/11	2024/05/10	



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature	MinarOna	TU404D	CL 104/1 04 04 05	2022/02/16	2023/02/15
and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Cianal Analysis	DOLIDE & COLIMADA	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	ROHDE&SCHWARZ	F5VV43	30771-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
restreceivei	ROHDEASCHWARZ	ESK/	30771-01-10-01	2023/02/08	2024/02/07
Receiving	SCHWRZBECK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
antenna	MESS-ELEKTRONIK	VOLB 9103	3000-01-11-01	2023/05/13	2024/05/12
Receiving	SCHWRZBECK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
antenna	MESS-ELEKTRONIK	BBHA 9120D	3077-01-11-02	2023/05/13	2024/05/12
Receiving	SCHWRZBECK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
antenna	MESS-ELEKTRONIK	BBHA 9170	3077-01-11-03	2023/05/12	2024/05/11
Active Loop	SCHWRZBECK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Antenna	MESS-ELEKTRONIK	FWZB 1319B	3000-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Torisceria	1AF9R3G40	3000-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Torisceria	1AF01018030	30771-01-14-02	2023/02/06	2024/02/05
Amplifion	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Amplifier	Tonscend	TAP 16040046	30771-01-14-03	2023/02/08	2024/02/07
Wideband				2022/02/14	2023/02/13
Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2022/11/23	2023/11/22
UXM 5G			OLINAMI CA CA CA	2022/02/20	2023/02/19
Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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6 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

No.	ltem	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
		± 3.13dB (9k -30MHz)
7	Radiated Emission	± 4.8dB (30M -1GHz)
'	Radiated Effission	± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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7 Appendixes

Appendix A.2	WWAN Setup Photos
Appendix B.17	NR Band n25
Appendix B.18	NR Band n41
Appendix B.19	NR Band n66
Appendix B.20	NR Band n71
Appendix B.21	NR Band n77(3700-3980)
Appendix B.22	ENDC_5A_n2A
Appendix B.23	ENDC_2A_n5A

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