

Report No.: SEWA2204000009RG02

Rev.: 01

Page: 1 of 51

TEST REPORT

Application No: SEWA2204000009RG

Applicant: Fibocom Auto Inc.

Address of Applicant: 13th Floor, Building A, Building 6, International Innovation Valley,Xili

Street, Shenzhen

Manufacturer: Fibocom Auto Inc.

Address of Manufacturer: 13th Floor, Building A, Building 6, International Innovation Valley,Xili

Street, Shenzhen

EUT Description: 5G Module
Model No.: AN958-NA
Trade Mark: Fibocom

 FCC ID:
 2A8RBAN958NA

 Standards:
 47 CFR Part 2

 47 CFR Part 22

47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 90

Date of Receipt: 2022/08/30

Date of Test: 2022/09/01 to 2022/12/02

Date of Issue: 2023/01/03

Test Result: PASS *

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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



Report No.: SEWA2204000009RG02

Rev.: 01 Page: 2 of 51

1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2023/01/03		Original	

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	(Well Wei) / Reviewer



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 3 of 51

Content

1	Vers	sion	2
2	Tes	t Summary	5
	2.1 2.2	NR Band n5(ENDC DC_2A_n5A/ DC_7A_n5A/ DC_66A_n5A) NR Band n7(ENDC DC_5A_n7A / DC_12A_n7A/ DC_66A_n7A) / NR Band	5
	n41(E 2.3	NDC DC_2A_n41A/ DC_25A_n41A / DC_26A_n41A / DC_66A_n41A) NR Band n2(ENDC DC_5A_n2A/ DC_12A_n2A/ DC_66A_n2A/ DC_71A_n2A)	
		ind n25	
	2.6	NR Band n66(ENDC DC_2A_n66A/ DC_5A_n66A/ DC_12A_n66A)	.12
	2.7	NR Band n71(ENDC DC_2A_n71A/ DC_7A_n71A/ DC_66A_n71A)	.13
	2.8 DC 7/	NR Band n77/ NR Band n78 (ENDC DC_2A_n78A/ DC_5A_n78A/ A_n78A/DC_12A_n78A/ DC_66A_n78A)	.14
3		eral Information	
	3.1	Client Information	.16
	3.2	Test Location	.16
	3.3	Test Facility	.16
	3.4	General Description of EUT	.17
	3.5	Test Mode	.18
	3.6	Test Environment	
	3.7	Description of Support Units	
	3.8	Technical Specification	
	3.9	Test Frequencies	
	3.9.		
		2 Reference test frequencies for NR operating band n5	
	3.9.	Reference test frequencies for NR operating band n7	.25
	3.9.	4 Reference test frequencies for NR operating band n12	.26
	3.9.	5 Reference test frequencies for NR operating band n14	.27
	3.9.	6 Reference test frequencies for NR operating band n25	.28
	3.9.	7 Reference test frequencies for NR operating band n41	.29
	3.9.	8 Reference test frequencies for NR operating band n66	.30
	3.9.	9 Reference test frequencies for NR operating band n71	.31
	3.9.	10 Reference test frequencies for NR operating band n77	.32



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Report No.: SEWA2204000009RG02

Rev.:	01
Page:	4 of 51

	3.9.	11 Reference test frequencies for NR operating band n78	34
1	Des	cription of Tests	36
	4.1	Conducted Output Power	36
	4.2	Effective (Isotropic) Radiated Power of Transmitter	
	4.3	Occupied Bandwidth	
	4.4	Band Edge at Antenna Terminals	
	4.5	Spurious And Harmonic Emissions at Antenna Terminal	
	4.6	Peak-Average Ratio	
	4.7	Field Strength of Spurious Radiation	
	4.8	Frequency Stability / Temperature Variation	43
	4.9	Test Setups	44
	4.9.	1 Test Setup 1	44
	4.9.	2 Test Setup 2	44
	4.9.	3 Test Setup 3	45
	4.10	Test Conditions	46
5	Mair	n Test Instruments	48
3	Mea	asurement Uncertainty	50
7		endixes	



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 5 of 51

2 Test Summary

2.1 NR Band n5(ENDC DC_2A_n5A/ DC_7A_n5A/ DC_66A_n5A)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	FCC: ERP ≤ 7 W	Section 1 of Appendix B.18	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B.18	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.18	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.18	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 5 of Appendix B.18	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 6 of Appendix B.18	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.18	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Section 8 of Appendix B.18	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 6 of 51

2.2 NR Band n7(ENDC DC_5A_n7A / DC_12A_n7A/ DC_66A_n7A) / NR Band n41(ENDC DC_2A_n41A/ DC_25A_n41A / DC_26A_n41A / DC 66A n41A)

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.19&23	Pass	
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B.19&23	Pass	
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.19&23	Pass	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.19&23	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 5 of Appendix B.19&23	Pass	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz X MHz 10th harmonics X=Max {6MHz, EBW}	Section 6 of Appendix B.19&23	Pass	



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Rev.: 01 Page: 7 of 51

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 4 MHz 1 MHz	Section 7 of Appendix B.19&23	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.19&23	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 8 of 51

2.3 NR Band n2(ENDC DC_5A_n2A/ DC_12A_n2A/ DC_66A_n2A/ DC_71A_n2A)/ NR Band n25

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&22	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B.17&22	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.17&22	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.17&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 5 of Appendix B.17&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 6 of Appendix B.17&22	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.17&22	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.17&22	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 9 of 51

2.4 NR Band n12

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Section 1 of Appendix B.20	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.20	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.20	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 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 5 of Appendix B.20	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.20	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.20	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.20	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 10 of 51

2.5 NR Band n14

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(d)	ERP ≤ 3 W.	Section 1 of Appendix B.21	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.21	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.21	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.21	Pass
Emission Mask	§2.1051 §90.210(n)	Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission mask requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.	Section 5 of Appendix B.21	Pass
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in	Section 6 of Appendix B.21	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 11 of 51

		, 		
		a 6.25 kHz band segment, for mobile and portable stations.(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.		
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 7 of Appendix B.21	Pass
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559– 1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 8 of Appendix B.21	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Section 9 of Appendix B.21	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 12 of 51

2.6 NR Band n66(ENDC DC_2A_n66A/ DC_5A_n66A/ DC_12A_n66A)

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.24	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B.24	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.24	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.24	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 5 of Appendix B.24	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 6 of Appendix B.24	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.24	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.24	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 13 of 51

2.7 NR Band n71(ENDC DC_2A_n71A/ DC_7A_n71A/ DC_66A_n71A)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W	Section 1 of Appendix B.25	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.25	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.25	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.25	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 5 of Appendix B.25	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 6 of Appendix B.25	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.25	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the authorized bands of operation.	Section 8 of Appendix B.25	Pass



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Report No.: SEWA2204000009RG02

Rev.:

Page: 14 of 51

2.8 NR Band n77/ NR Band n78 (ENDC DC_2A_n78A/ DC_5A_n78A/ DC_7A_n78A/DC_12A_n78A/ DC_66A_n78A)

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.27&29	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B.27&29	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.27&29	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.27&29	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 5 of Appendix B.27&29	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.	Section 6 of Appendix B.27&29	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(I)(2)	not exceed -13 dBm/MHz	Section 7 of Appendix B.27&29	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.27&29	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 15 of 51

3450-3550MHz:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046, §27.50(k)(3)	EIRP ≤ 30dBm	Section 1 of Appendix	Pass
Data			B.26&28	
Peak-Average Ratio	§27.50(k)(4)	FCC: Limit≤13 dB	Section 2 of Appendix B.26&28	Pass
			Section 3 of	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Appendix	Pass
			B.26&28	
Band Edges Compliance	§2.1051, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 4 of Appendix B.26&28	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 5 of Appendix B.26&28	Pass
Field Strength of Spurious Radiation	§2.1053, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 6 of Appendix B.26&28	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.26&28	Pass



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 16 of 51

3 General Information

3.1 Client Information

Applicant:	Fibocom Auto Inc.
Address of Applicant:	13th Floor, Building A, Building 6, International Innovation Valley,Xili Street, Shenzhen
Manufacturer:	Fibocom Auto Inc.
Address of Manufacturer:	13th Floor, Building A, Building 6, International Innovation Valley,Xili Street, Shenzhen

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:	Weller Liu, 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

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

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 17 of 51

3.4 General Description of EUT

EUT Description:	5G Mo	5G Module				
Model No.:	AN958	AN958-NA				
Trade Mark:	Fiboco	Fibocom				
Hardware Version:	AN958	-MAQC-NA-00				
Software Version:	AN958	-GA-NA_R2.1_V.E	3.1.20			
INACI	RF Coi	nducted	866577040810566			
IMEI:	RSE		866577040810053			
HPUE Power Class:	Class 2	2: n77; n78				
Antenna Type:	Fixed E	External Antenna				
	n2:	2.31dBi				
	n5:	5: 2.20dBi				
	n7:	n7: 2.98dBi				
	n12:	n12: 2.20dBi				
	n14:	n14: 2.20dBi				
	n25:	n25: 2.31dBi				
Antenna Gain:	n41:	n41: 2.98dBi				
	n66:	n66: 2.33dBi				
	n71:	71: 2.20dBi				
	n77:	1.00dBi				
	n78:	1.00dBi				
		Note: The antenna gain are derived from the gain information report provided by the manufacturer.				
	0.8dB(Below 1GHz)	1.0dB(1.0~2.4GHz)	1.2dB(2.4~3.4GHz)		
RF Cable:	1.5dB(1.5dB(Above 3.4GHz)				
Remark: As above information is	provided ar	nd confirmed by the	e applicant. SGS is not lial	ole to the accuracy,		



suitability, reliability or/and integrity of the information.

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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 18 of 51

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

Environment Parameter	101.0kPa Selected Values During Tests			
Relative Humidity	44-46	44-46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)		
NTNV	22~23	3.8		
LTLV	-30	3.4		
LTHV	-30	4.2		
HTLV	50	3.4		
HTHV	50	4.2		
· · · · · · · · · · · · · · · · · · ·	ow Extreme Test Voltage ow Extreme Test Temperature	HV: High Extreme Test Voltage HT: High Extreme Test Temperature		

3.7 Description of Support Units

Description	Manufacturer	Model No.				
Test auxiliary PCB board	Fibocom	N/A				
Remark: all above the information of table are provided by client.						



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 19 of 51

3.8 Technical Specification

Characteristics	Description				
Radio System Type	⊠ SA ⊠ NSA				
	Band	d TX		RX	
	NR Band n2	1850 to 1910 MHz		1930 to 1990 MHz	
	NR Band n5	824 to 849	MHz	869 to 894 M	1Hz
	NR Band n7	2500 to 2570) MHz	2620 to 2690) MHz
	NR Band n12	699 to 716 M	ИНz	729 to 746 M	1Hz
	NR Band n14	788 to 798 N	ИHz	758 to 768 M	1Hz
Supported Frequency	NR Band n25	1850 to 1915	5MHz	1930 to 1995	5 MHz
Range	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 N	ИНz	617 to 652 M	1Hz
	NR Band n77	3700 to 3980) MHz	3700 to 3980) MHz
	INK Dallu III I	3450 to 3550) MHz	3450 to 3550) MHz
	ND Dand n70	3700 to 3800) MHz	3700 to 3800) MHz
	NR Band n78	3450 to 3550) MHz	3450 to 3550 MHz	
	NR Band n2	SCS 15kHz:			
		⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	NR Band n5	SCS 15kHz:			
		⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		SCS 15kHz:			
	NR Band n7	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		⊠25 MHz	⊠30 MHz	⊠40 MHz	
nnartad Channal	NR Band n12	SCS 15kHz:			
pported Channel Bandwidth	INIX Dallu IIIZ	⊠5 MHz	⊠10 MHz	⊠15 MHz	
	NR Band n14	SCS 15kHz:			
	NIT Dally 1114	⊠5 MHz	⊠10 MHz		
		SCS 15kHz:			
	NR Band n25	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		⊠25 MHz	⊠30 MHz	⊠40 MHz	
		SCS 30kHz:			
	NR Band n41	⊠20 MHz	⊠30 MHz	⊠40 MHz	⊠50 MHz
		⊠60 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz



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Report No.: SEWA2204000009RG02

Rev.: 0°

Page: 20 of 51

			i age.	20 01 3	
		SCS 15kHz:			
	NR Band n66	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		⊠30 MHz	⊠40 MHz		
	NR Band n71	SCS 15kHz:			
	NR Band n/ i	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		SCS 30kHz			
	NR Band n77	⊠20 MHz	⊠40 MHz	⊠50 MHz	⊠60 MHz
		⊠70 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz
		SCS 30kHz:			
	NR Band n78	⊠20 MHz	⊠40 MHz	⊠50 MHz	⊠60 MHz
		⊠70 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz
		DFT-s-Pi/2- BPSK	CP-16QAM		
		SCS 15kHz:			
	NR Band n2	4M47G7D	4M47W7D		
	NIV Band 112	8M94G7D	9M28W7D		
		13M4G7D	14M1W7D		
		17M9G7D	18M9W7D		
		SCS 15kHz:			
Designation of	NR Band n5	4M48G7D	4M47W7D		
Emissions		8M94G7D	9M28W7D		
(Remark: the necessary		13M4G7D	14M1W7D		
bandwidth of which is the worst value from		17M9G7D	18M9W7D		
the measured occupied	NR Band n7	SCS 15kHz:			
bandwidths for each		4M47G7D	4M47W7D		
type of channel bandwidth		8M93G7D	9M29W7D		
configuration.)		13M4G7D	14M1W7D		
,		17M9G7D	18M9W7D		
		SCS 15kHz:			
	NR Band n12	4M47G7D	4M48W7D		
	INIT DAILU IIIZ	8M93G7D	9M27W7D		
		13M4G7D	14M1W7D		
		SCS 15kHz:			
	NR Band n14	4M48G7D	4M48W7D		
		8M92G7D	9M27W7D		



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 21 of 51

SCS 15kHz: 4M48G7D				. 490.	
NR Band n25 NR Band n25 NR Band n25 NR Band n25 13M5G7D			SCS 15kHz:		
NR Band n25 13M5G7D			4M48G7D	4M47W7D	
NR Band n25 17M9G7D 19M0W7D 22M9G7D 23M8W7D 28M6G7D 28M6W7D 38M5G7D 38M4W7D SCS 30kHz: 17M8G7D 18M2W7D 26M8G7D 27M8W7D 26M8G7D 27M8W7D 35M7G7D 37M8W7D NR Band n41 45M7G7D 47M4W7D 57M9G7D 57M9W7D 76M8G7D 77M2W7D 86M5G7D 87M2W7D 96M2G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D NR Band n66 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 38M6W7D 38M4G7D 38M6W7D SCS 15kHz: 17M9G7D 19M0W7D 28M6G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			8M92G7D	9M29W7D	
17M9G7D 19M0W7D 22M9G7D 23M8W7D 28M6G7D 28M6W7D 38M5G7D 38M4W7D SCS 30kHz: 17M8G7D 18M2W7D 26M8G7D 27M8W7D 35M7G7D 37M8W7D 45M7G7D 37M8W7D 45M7G7D 47M4W7D 57M9G7D 57M9W7D 76M8G7D 77M2W7D 86M5G7D 97M1W7D 86M5G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D 13M4G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 8M92G7D 9M28W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 8M92G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D		ND Day day 05	13M5G7D	14M1W7D	
28M6G7D 28M6W7D 38M5G7D 38M4W7D SCS 30kHz: 17M8G7D 18M2W7D 26M8G7D 27M8W7D 35M7G7D 37M8W7D NR Band n41 45M7G7D 47M4W7D 57M9G7D 57M9W7D 76M8G7D 77M2W7D 86M5G7D 87M2W7D 96M2G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D NR Band n66 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D		NR Band n25	17M9G7D	19M0W7D	
38M5G7D 38M4W7D			22M9G7D	23M8W7D	
SCS 30kHz: 17M8G7D			28M6G7D	28M6W7D	
17M8G7D 18M2W7D 26M8G7D 27M8W7D 35M7G7D 37M8W7D 35M7G7D 37M8W7D 45M7G7D 47M4W7D 57M9G7D 57M9W7D 76M8G7D 77M2W7D 86M5G7D 87M2W7D 96M2G7D 97M1W7D 96M2G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D 38M4G7D 4M46W7D NR Band n71 8W95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 (3700-3980) 13M4G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			38M5G7D	38M4W7D	
NR Band n41 26M8G7D 27M8W7D 35M7G7D 37M8W7D 45M7G7D 47M4W7D 57M9G7D 57M9W7D 76M8G7D 77M2W7D 86M5G7D 87M2W7D 96M2G7D 97M1W7D 8M92G7D 97M1W7D 8M92G7D 9M28W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D 38M4G7D 38M6W7D 38M4G7D 4M46W7D 13M4G7D 4M46W7D 13M4G7D 4M46W7D 13M4G7D 4M46W7D 13M4G7D 4M46W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D 13M4G7D 18M9W7D 3CS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D 47M4W7D 45M7G7D 47M4W7D 47M4W7D 45M7G7D 47M4W7D 47M4W7D 45M7G7D 47M4W7D 47M4W7D 45M7G7D 47M4W7D			SCS 30kHz:		
NR Band n41 A5M7G7D 37M8W7D 45M7G7D 47M4W7D 57M9G7D 57M9W7D 76M8G7D 77M2W7D 86M5G7D 87M2W7D 96M2G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D NR Band n71 NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 SCS 30kHz: 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			17M8G7D	18M2W7D	
NR Band n41 45M7G7D 47M4W7D 57M9G7D 57M9W7D 76M8G7D 77M2W7D 86M5G7D 87M2W7D 96M2G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D NR Band n66 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			26M8G7D	27M8W7D	
57M9G7D 57M9W7D 76M8G7D 77M2W7D 86M5G7D 87M2W7D 96M2G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 17M9G7D 18M9W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D 17M9G7D 18M9W7D 35M8G7D 18M9W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			35M7G7D	37M8W7D	
T6M8G7D 77M2W7D		NR Band n41	45M7G7D	47M4W7D	
86M5G7D 87M2W7D 96M2G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			57M9G7D	57M9W7D	
96M2G7D 97M1W7D SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			76M8G7D	77M2W7D	
SCS 15kHz: 4M47G7D 4M46W7D 8M92G7D 9M28W7D 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			86M5G7D	87M2W7D	
NR Band n66 NR Band n66 NR Band n66 13M4G7D			96M2G7D	97M1W7D	
NR Band n66 NR Band n66 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 13M4G7D 14M1W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			SCS 15kHz:		
NR Band n66 13M4G7D 14M1W7D 17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			4M47G7D	4M46W7D	
17M9G7D 19M0W7D 28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			8M92G7D	9M28W7D	
28M6G7D 28M6W7D 38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D		NR Band n66	13M4G7D	14M1W7D	
38M4G7D 38M6W7D SCS 15kHz: 4M48G7D 4M46W7D 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			17M9G7D	19M0W7D	
NR Band n71 NR Band n71 NR Band n71 SCS 15kHz: 4M48G7D 4M46W7D 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			28M6G7D	28M6W7D	
NR Band n71 AM48G7D			38M4G7D	38M6W7D	
NR Band n71 8M95G7D 9M29W7D 13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			SCS 15kHz:		
13M4G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D NR Band n77 (3700-3980) 35M8G7D 37M9W7D 45M7G7D 47M4W7D			4M48G7D	4M46W7D	
17M9G7D 18M9W7D SCS 30kHz: 17M8G7D 18M2W7D 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D		NR Band n71	8M95G7D	9M29W7D	
SCS 30kHz: 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			13M4G7D	14M1W7D	
NR Band n77 (3700-3980) 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M4W7D			17M9G7D	18M9W7D	
NR Band n77 (3700-3980) 35M8G7D 37M9W7D 45M7G7D 47M4W7D			SCS 30kHz:		
(3700-3980) 35M8G7D 37M9W7D 45M7G7D 47M4W7D			17M8G7D	18M2W7D	
45M7G7D 47M4W7D			35M8G7D	37M9W7D	
57M0C7D 58M0M7D		(3700-3980)	45M7G7D	47M4W7D	
STINIBGT D SOLVIOUS TO			57M9G7D	58M0W7D	



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Report No.: SEWA2204000009RG02

Rev.: 0'

Page: 22 of 51

			ı aye.	22 01 31
		64M3G7D	67M6W7D	
		77M3G7D	77M5W7D	
		86M6G7D	87M4W7D	
		96M4G7D	97M7W7D	
		SCS 30kHz:		
		17M8G7D	18M2W7D	
		35M7G7D	37M9W7D	
		45M8G7D	47M4W7D	
	NR Band n78 (3450-3550)	58M0G7D	57M8W7D	
	(6166 6666)	64M3G7D	67M4W7D	
		77M1G7D	77M6W7D	
		86M7G7D	87M3W7D	
		96M5G7D	97M5W7D	
		SCS 30kHz:		
		17M9G7D	18M2W7D	
		35M8G7D	37M9W7D	
		45M8G7D	47M4W7D	
	NR Band n78 (3700-3800)	58M0G7D	57M9W7D	
	(3.30 0000)	64M3G7D	67M5W7D	
		77M1G7D	77M5W7D	
		86M7G7D	87M6W7D	
		96M4G7D	97M3W7D	
		•		



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 23 of 51

3.9 Test Frequencies

3.9.1 Reference test frequencies for NR operating band n2

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

CBW [MHz]	Range	<u> </u>	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	
15		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	1 - 1
	·	High	1900	380000	



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 24 of 51

3.9.2 Reference test frequencies for NR operating band n5

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

	Description of the control of the co	00 1-11- 000			
CBW	Range		Carrier centre	Carrier centre	SS block SCS
[MHz]			[MHz]	[ARFCN]	[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	
Downlink	Downlink	Mid	881.5	176300	15
20		High	884	176800	
20	20	Low	834	166800	
	Uplink	Mid	836.5	167300	_
	*	High	839	167800	



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 25 of 51

3.9.3 Reference test frequencies for NR operating band n7

3.9.3.1 Test frequencies for NR operating band n7 and SCS 15 kHz

3.9.3.1 Test free	quencies for NR opera	<u> </u>	Carrier centre	Carrier centre	SS block	
[MHz]	Range		[MHz]	[ARFCN]	SCS [kHz]	
•		Low	2622.5	524500		
	Downlink	Mid	2655	531000	15	
_		High	2687.5	537500		
5		Low	2502.5	500500		
	Uplink	Mid	2535	507000	-	
	·	High	2567.5	513500		
		Low	2625	525000		
	Downlink	Mid	2655	531000	15	
40		High	2685	537000		
10		Low	2505	501000		
	Uplink	Mid	2535	507000	-	
	·	High	2565	513000		
		Low	2627.5	525500		
	Downlink	Mid	2655	531000	15	
45		High	2682.5	536500		
15		Low	2507.5	501500		
	Uplink	Mid	2535	507000	_	
	-1	High	2562.5	512500		
		Low	2630	526000		
	Downlink	Mid	2655	531000	15	
20		High	2680	536000		
20		Low	2510	502000		
	Uplink	Mid	2535	507000	1 -	
	•	High	2560	512000		
		Low	2632.5	526500		
	Downlink	Mid	2655	531000	15	
05		High	2677.5	535500		
25		Low	2512.5	502500		
	Uplink	Mid	2535	507000	-	
	·	High	2557.5	511500		
		Low	2635	52700		
	Downlink	Mid	2655	531000	15	
20		High	2675	535000		
30		Low	2515	503000		
	Uplink	Mid	2535	507000	_	
	•	High	2555	511000		
		Low	2640	528000		
	Downlink	Mid	2655	531000	15	
	· · · · · · · · · · · · · · · ·	High	2670	534000	1	
40		Low	2520	504000		
	Uplink	Mid	2535	507000	1	
	Оршк				-	
		High	2550	510000		



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 26 of 51

3.9.4 Reference test frequencies for NR operating band n12

3.9.4.1 Test frequencies for NR operating band n12 and SCS 15 kHz

Bandwidth [MHz]	Rang	e	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	731.5	146300	
	Downlink	Mid	737.5	147500	15
5		High	743.5	148700	
5		Low	701.5	140300	
	Uplink	Mid	707.5	141500	
		High	713.5	142700	
		Low	734	146800	
	Downlink	Mid	737.5	147500	15
10		High	741	148200	
10		Low	704	140800	
	Uplink	Mid	707.5	141500	
		High	711	142200	
		Low	736.5	147300	
	Downlink	Mid	737.5	147500	15
15		High	738.5	147700	
	·	Low	706.5	141300	
	Uplink	Mid	707.5	141500	
		High	708.5	141700	



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 27 of 51

3.9.5 Reference test frequencies for NR operating band n14

3.9.5.1 Test frequencies for NR operating band n14 and SCS 15 kHz

Bandwidth [MHz]	Rang	Range		Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	760.5	151200	
	Downlink	Mid	763	152600	15
5		High	765.5	153100	
3		Low	790.5	158100	
	Uplink	Mid	793	158600	
		High	795.5	159100	
		Low	1	1	
	Downlink	Mid	763	152600	15
10		High	/	1	
10		Low	1	1	
	Uplink	Mid	763	152600	
		High	1	1	



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 28 of 51

3.9.6 Reference test frequencies for NR operating band n25

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

3.9.6.1 Test	Range Carrier centre Carrier centre SS					
[MHz]	Range		[MHz]	[ARFCN]	SS block SCS [kHz]	
[IVITZ]		Low	1932.5	386500	[KHZ]	
	Downlink	Low Mid	1962.5	392500	15	
	DOWNIIIK	High	1992.5	392500 398500	15	
5			1852.5	370500		
	I In Book	Low Mid		376500	=	
	Uplink		1882.5	382500	-	
		High	1912.5			
	D	Low	1935	387000	4.5	
	Downlink	Mid	1962.5	392500	15	
10		High	1990	398000		
		Low	1855	371000		
	Uplink	Mid	1882.5	376500	-	
		High	1910	382000		
		Low	1937.5	387500		
	Downlink	Mid	1962.5	392500	15	
15		High	1987.5	397500		
13		Low	1857.5	371500		
	Uplink	Mid	1882.5	376500	-	
		High	1907.5	381500		
		Low	1940	388000	15	
	Downlink	Mid	1962.5	392500		
00		High	1985	397000		
20		Low	1860	372000		
	Uplink	Mid	1882.5	376500	1 -	
	-1	High	1905	381000		
		Low	1942.5	388500		
	Downlink	Mid	1962.5	392500	15	
0.5		High	1982.5	396500		
25		Low	1862.5	372500		
	Uplink	Mid	1882.5	376500	-	
	-1	High	1902.5	380500		
		Low	1945	389000		
	Downlink	Mid	1962.5	392500	15	
		High	1980	396000	1	
30		Low	1865	373000		
	Uplink	Mid	1882.5	376500	1 -	
	Opiniit	High	1900	380000		
		Low	1950	390000		
	Downlink	Mid	1962.5	392500	15	
40	DOWNIIIK		1902.5	395000	- 13	
		High			-	
		Low	1870	374000	4	
	Uplink	Mid	1882.5	376500		
		High	1895	379000		



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Rev.: 01

Page: 29 of 51

3.9.7 Reference test frequencies for NR operating band n41

3.9.7.1 Test frequencies for NR operating band n41 and SCS 30 kHz

3.3.7.1 Test frequencies for NK operating band fight and 3C3 30 KHz							
Bandwidth [MHz]	Rai	nge	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]		
	Downlink	Low	2506.02	501204			
20	&	Mid	2592.99	518598	30		
	Uplink	High	2679.99	535998			
	Downlink	Low	2511	502200			
30	&	Mid	2592.99	518598	30		
	Uplink	High	2674.98	534996			
	Downlink	Low	2516.01	503202			
40	&	Mid	2592.99	518598	30		
	Uplink	High	2670	534000			
	Downlink	Low	2521.02	504204			
50	&	Mid	2592.99	518598	30		
	Uplink	High	2664.99	532998			
	Downlink	Low	2526	505200			
60	&	Mid	2592.99	518598	30		
	Uplink	High	2659.98	531996			
	Downlink	Low	2536.02	507204			
80	&	Mid	2592.99	518598	30		
	Uplink	High	2649.99	529998			
	Downlink	Low	2541	508200			
90	&	Mid	2592.99	518598	30		
	Uplink	High	2644.98	528996			
	Downlink	Low	2546.01	509202			
100	&	Mid	2592.99	518598	30		
	Uplink	High	2640	528000			



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 30 of 51

3.9.8 Reference test frequencies for NR operating band n66

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

CBW	Range	oporuming b	Carrier centre	Carrier centre	SS block SCS
[MHz]	Range		[MHz]	[ARFCN]	[kHz]
		Low	2112.5	422500	
	Downlink	Mid	2145	429000	15
l _		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
45		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
00		High	2170	434000	
20		Low	1720	344000	
	Uplink	Mid	1745	349000	-
	•	High	1770	354000	
		Low	2125	425000	
	Downlink	Mid	2145	429000	15
20		High	2165	433000	
30		Low	1725	345000	
	Uplink	Mid	1745	349000	-
	•	High	1765	353000	
		Low	2130	426000	
40	Downlink	Mid	2145	429000	15
		High	2160	432000	
40		Low	1730	346000	
	Uplink	Mid	1745	349000	† <u>-</u>
		High	1760	352000	



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 31 of 51

3.9.9 Reference test frequencies for NR operating band n71

3.9.9.1 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	
5		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	
	Downlink	Mid	634.5	126900	15
4.5		High	644.5	128900	
15		Low	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		Low	673	134600	
	Uplink	Mid	680.5	136100] -
	-	High	688	137600	



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Report No.: SEWA2204000009RG02

Rev.: Page: 32 of 51

3.9.10 Reference test frequencies for NR operating band n77 3.9.10.1 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	3720	648000	
40	&	Mid	3840	656000	30
	Uplink	High	3960	664000	
	Downlink	Low	3725.01	648334	
50	&	Mid	3840	656000	30
	Uplink	High	3954.99	663666	
	Downlink	Low	3730.02	648668	
60	&	Mid	3840	656000	30
	Uplink	High	3949.98	663332	
	Downlink	Low	3735	649000	
70	&	Mid	3840	656000	30
	Uplink	High	3945	663000	
	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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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 33 of 51

3450-3550:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
20	Downlink	Low	3460.02	630668	30
	&	Mid	3500.01	633334	
	Uplink	High	3540	636000	
	Downlink	Low	3470.01	631334	30
40	&	Mid	3500.01	633334	
	Uplink	High	3530.01	635334	
	Downlink	Low	3475.02	631668	30
50	&	Mid	3500.01	633334	
	Uplink	High	3525	635000	
	Downlink	Low	3480	632000	30
60	&	Mid	3500.01	633334	
	Uplink	High	3519.99	634666	
	Downlink	Low	3485.01	632334	30
70	&	Mid	3500.01	633334	
	Uplink	High	3515.01	634334	
80	Downlink	Low	3490.02	632668	30
	&	Mid	3500.01	633334	
	Uplink	High	3510	634000	
90	Downlink	Low	3495	633000	30
	&	Mid	3500.01	633334	
	Uplink	High	3504.99	633666	
100	Downlink	Low	\	\	30
	&	Mid	3500.01	633334	
	Uplink	High	\	\	



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Report No.: SEWA2204000009RG02

Rev.: 01 Page: 34 of 51

3.9.11 Reference test frequencies for NR operating band n78 3.9.11.1 Test frequencies for NR operating band n78 and SCS 30 kHz

3700-3800:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
20	Downlink	Low	3710.01	647334	30
	&	Mid	3750	650000	
	Uplink	High	3789.99	652666	
	Downlink	Low	3720	648000	30
40	&	Mid	3750	650000	
	Uplink	High	3780	652000	
	Downlink	Low	3725.01	648334	30
50	&	Mid	3750	650000	
	Uplink	High	3774.99	651666	
	Downlink	Low	3730.02	648668	30
60	&	Mid	3750	650000	
	Uplink	High	3769.98	651332	
	Downlink	Low	3735	649000	30
70	&	Mid	3750	650000	
	Uplink	High	3765	651000	
	Downlink	Low	3740.01	649334	30
80	&	Mid	3750	650000	
	Uplink	High	3759.99	650666	
	Downlink	Low	3745.02	649668	30
90	&	Mid	3750	650000	
	Uplink	High	3754.98	650332	
	Downlink	Low	1	1	30
100	&	Mid	3750	650000	
	Uplink	High	1	1	



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 35 of 51

3450-3550:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
20	Downlink	Low	3460.02	630668	30
	&	Mid	3500.01	633334	
	Uplink	High	3540	636000	
	Downlink	Low	3470.01	631334	30
40	&	Mid	3500.01	633334	
	Uplink	High	3530.01	635334	
	Downlink	Low	3475.02	631668	30
50	&	Mid	3500.01	633334	
	Uplink	High	3525	635000	
	Downlink	Low	3480	632000	30
60	&	Mid	3500.01	633334	
	Uplink	High	3519.99	634666	
	Downlink	Low	3485.01	632334	30
70	&	Mid	3500.01	633334	
	Uplink	High	3515.01	634334	
80	Downlink	Low	3490.02	632668	30
	&	Mid	3500.01	633334	
	Uplink	High	3510	634000	
90	Downlink	Low	3495	633000	30
	&	Mid	3500.01	633334	
	Uplink	High	3504.99	633666	
100	Downlink	Low	\	\	30
	&	Mid	3500.01	633334	
	Uplink	High	\	\	



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 36 of 51

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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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 37 of 51

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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Report No.: SEWA2204000009RG02

Rev.:

Page: 38 of 51

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.
- RBW = 1 5% of the expected OBW
- VBW ≥ 3 x RBW
- Detector = Peak
- Trace mode = max hold
- Sweep = auto couple
- 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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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 39 of 51

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 power.

Remark: Reference test setup 1

Test Settings

- 1. 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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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 40 of 51

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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Report No.: SEWA2204000009RG02

Rev.:

Page: 41 of 51

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

Remark: Reference test setup 1

Test Settings

- The signal analyzer's CCDF measurement profile is enabled
- Frequency = carrier center frequency
- 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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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 42 of 51

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 (dB μ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- 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 (dB μ V/m) = Measured amplitude level (dB μ V) + (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

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

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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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 43 of 51

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 $\pm 0.00025\%$ (± 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



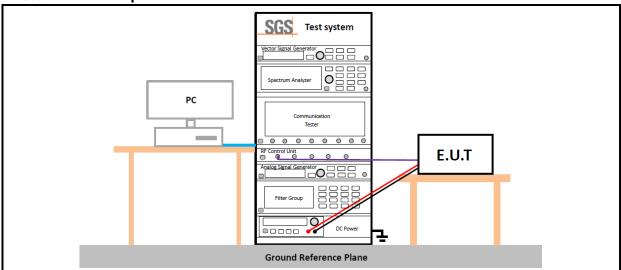


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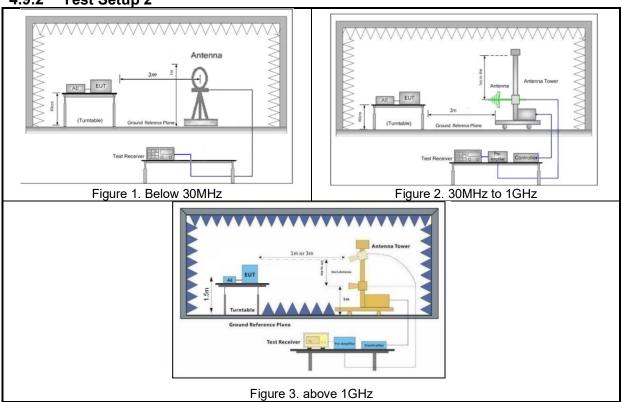
Rev.: 01 Page: 44 of 51

4.9 Test Setups

4.9.1 Test Setup 1



4.9.2 Test Setup 2





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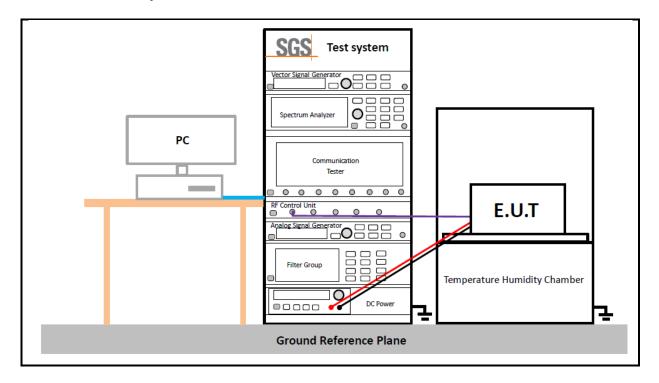


Report No.: SEWA2204000009RG02

Rev.:

45 of 51 Page:

4.9.3 **Test Setup 3**





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Report No.: SEWA2204000009RG02

Rev.:

Page: 46 of 51

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/TM1; NR/TM6			
	Modulation Characteristics			
Test Case	Test Conditions			
Test Environment	Ambient Climate & Rated Voltage			
Test Setup	Test Setup 1			
RF Channels (TX)	M (M= middle channel)			
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; 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			



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Report No.: SEWA2204000009RG02

Rev.: Page. 47 of 51

	Page: 47 of 51			
	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			
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: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.			
	Frequency Stability			
Test Case	Test Conditions			
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage			
	(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; NR/TM6			



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Report No.: SEWA2204000009RG02

Rev.:

Page: 48 of 51

Main Test Instruments 5

RF conducted 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 humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
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	2021/12/04	2022/12/03
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Test Ststion	Anritsu	MT8000A	SUWI-01-34-02	2022/09/16	2023/09/15



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 49 of 51

	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 and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/02/14	2023/02/13
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/04	2022/12/03
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2022/02/20	2023/02/19
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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Report No.: SEWA2204000009RG02

Rev.: 01

Page: 50 of 51

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.	Item	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 %
7		± 3.13dB (9k -30MHz)
	Radiated Emission	± 4.8dB (30M -1GHz)
	Radiated Emission	± 4.8dB (1GHz to 18 GHz)
		± 4.8dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispt/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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Report No.: SEWA2204000009RG02

Rev.:

Page: 51 of 51

Appendixes

Appendix A.2	WWAN Setup Photos
Appendix B.17	NR Band n2
Appendix B.18	NR Band n5
Appendix B.19	NR Band n7
Appendix B.20	NR Band n12
Appendix B.21	NR Band n14
Appendix B.22	NR Band n25
Appendix B.23	NR Band n41
Appendix B.24	NR Band n66
Appendix B.25	NR Band n71
Appendix B.26	NR Band n77(3450-3550)
Appendix B.27	NR Band n77(3700-3980)
Appendix B.28	NR Band n78(3450-3550)
Appendix B.29	NR Band n78(3700-3800)

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