

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 1 of 15

FCC TEST REPORT PART 0

SZCR2412004609WM **Application No.:**

vivo Mobile Communication Co., Ltd. Applicant:

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China **Address of Applicant:**

Manufacturer: vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China Address of Manufacturer:

Product Name: Mobile Phone

Model No.(EUT): V2427 Trade Mark: vivo

FCC ID: 2AUCY-V2427 Date of Receipt: 2024-12-10

Date of Test: 2024-12-12 to 2025-01-07

Date of Issue: 2025-01-08

Test conclusion: **PASS**

> Ceny. Ku Keny Xu **EMC Laboratory Manager**



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.ags.com/en/Terms-and-Conditions, Atlention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction forgery or flasification of the company and winauthorized alteration, forgery or flasification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@as.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Sherzhen, Suangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 2 of 15

REVISION HISTORY

	Revision Record			
Version	Description	Date	Remark	
01		2025-01-08		

Authorized for issue by:		
	Sherlock Fans	
	Sherlock Fang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	





SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 3 of 15

CONTENTS

1	GENERAL INFORMATION		4
	1.1	TEST LOCATION	4
	1.2	TEST FACILITY	4
	1.3	GENERAL DESCRIPTION OF EUT	5
	1.4	TIME-AVERAGING FOR SAR	
2	SAR	CHARACTERIZATION	9
	2.1	DSI AND SAR DETERMINATION	
	2.2	SAR DESIGN TARGET AND UNCERTAINTY	10
	2.3	SAR CHAR	11





SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 4 of 15

General Information

1.1 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Charley Yi

1.2 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.





SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 5 of 15

1.3 General Description of EUT

Product Name:	Mobile Phone			
Model No.:	V2427			
Trade Mark:	vivo			
Product Phase:	production unit			
Device Type:	portable device			
Exposure Category:	uncontrolled environme	nt / general population		
IMEI:	861994079993350; 861994079993012; 861994079994697; 861994079993335; 861994079993277; 861994079993392; 861994079994598.			
Hardware Version:	MP_0.1			
Software Version:	PD2437JF_EX_A_15.0.	8.0.W30		
Antenna Type:	Integrated Antenna			
Device Operating Configurations:				
Modulation Mode:	GSM:GMSK,8PSK; WCDMA:QPSK,16QAM LTE:QPSK,16QAM,64QAM,256QAM 5G NR:DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI:DSSS,OFDM, OFDMA; BT:GFSK, π/4DQPSK,8DPSK			
Device Class:	В			
GPRS Multi-slots Class:	33 EGPRS Multi-slots Class: 33			
HSDPA UE Category:	24 HSUPA UE Category: 7		7	
DC-HSDPA UE Category:	24			
	4, tested with power leve	el 5(GSM850)		
Power Class:	1, tested with power level 0(GSM1900)			
Power Class.	3, tested with power control "all 1"(WCDMA Band)			
	3, tested with power cor	itrol "max power"(LTE Band)	
	Band	Tx(MHz)	Rx(MHz)	
	GSM850	824~849	869~894	
	GSM1900	1850~1910	1930~1990	
Frequency Bands:	WCDMA Band II	1850~1910	1930~1990	
	WCDMA Band IV	1710~1755	2110~2155	
	WCDMA Band V	824~849	869~894	
	LTE Band 2	1850 ~1910	1930 ~1990	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's sinders at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com"

No.1 Workshop, Mi-10, Middle Section, Science & Technology Park, Nanchan Dictrict, Sherzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 6 of 15

	LTED	4740 4755	0440 0455
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869-894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704-716	734-746
	LTE Band 25	1850 ~1910	1930 ~1990
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 42	3450~3550	3450~3550
	LTE Band 66	1710~1780	2110~2180
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41 (Class 2/3)	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2180
	ND Dond n77	3450~3550	3450~3550
	NR Band n77	3700~3980	3700~3980
	NR Band n78(Class	3450~3550	3450~3550
	2/3)	3700~3800	3700~3800
	WIFI 2.4G	2412~2462	2412~2462
		5150~5250	5150~5250
	WIELEC	5250~5350	5250~5350
	WIFI 5G	5470~5725	5470~5725
		5725~5850	5725~5850
	BT	2402~2480	2402~2480
	NFC	13.56	13.56
RF Cable:	⊠Provided by applicant	Provided by the laboratory	
Battery Information:	Model:	BA77	
		1	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's sinders at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com"

or email: CN.Doccheck@sgs.com httl(filtrishtp,htl)kildlestedin, Sienter abenbulge / Rri. klanshar District, Sherzben, Guargtong, Chita 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 7 of 15

Normal Voltage:	3.84V
Rated capacity:	5870mAh
Manufacturer:	Sunwoda Electronic CO.,LTD.

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.





SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 8 of 15

1.4 Time-Averaging for SAR

The equipment under test (EUT) is a portable handset, it contains the Qualcomm modem supporting 2G/3G/4G/5G NR/BT/WLAN/NFC bands, but only 2G/3G/4G/5G NR are enabled with Qualcomm Smart Transmit feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement. we verification the applicable cases in part2.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time- varying) transmission scenario for WWAN technologies are reported in Part 2 report.

Nomenclature for Part 0 Report:

Technology	Term	Description
	Plimit	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties
WWAN	P _{max}	Maximum tune up output power
	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	SAR Char	Table containing Plimit for all technologies and bands





SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 9 of 15

SAR CHARACTERIZATION

2.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 1 represent different exposure scenarios.

Scenario	Description	SAR Test Cases	
Head (DSI = 2)	Device positioned next to head	Head SAR per KDB Publication 648474 D04	
	 Receiver Active 		
Hotspot mode (DSI = 9/10)	Device transmits in hotspot mode near body	Hotspot SAR per KDB Publication 941225 D06	
	 Hotspot Mode Active 		
Phablet (DSI = 5)	Device is held with handSensor Mode Active	Phablet SAR per KDB Publication 648474 D04 & KDB 616217 D04	
Phablet (DSI = 4)	 Device is held with hand Sensor Mode does not Active 	Phablet SAR per KDB Publication 648474 D04	
Body-worn (DSI = 4)	Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474 D04	

DSI and Corresponding Exposure Scenarios





SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

10 of 15 Page:

2.2 SAR Design Target And Uncertainty

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

$$SAR_design_target < SAR_{regulatory_limit} \times 10 \frac{-total \ uncertainty}{10}$$

Uncertainty dB (k=2)	All Band
Total uncertainty	1.49

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(1g)	SAR_design_target W/kg(1g)
Head	WWAN	1.6	0.60
Body worn	WWAN	1.6	0.75
Hotspot	WWAN	1.6	0.75

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(10g)	SAR_design_target W/kg(10g)
Product specific 10gSAR	WWAN	4.0	2.0





SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 11 of 15

2.3 SAR Char

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band. Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max}, when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit}. Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (DSI: Device State Index).

P_{limit} for supported technologies and bands (actual EFS settings)

				P _{limit} (average)					
Band	Mode	Antenna	P _{max*}	Head	Body Worn	Hotspot	Hotspot	Limbs	
				DSI 2	DSI 4	DSI 9	DSI 10	DSI 5	
	GPRS 2TS	24#	25.0	25.0	25.0	/	/	/	
0014.050	GPRS 4TS	31#	24.5	/	/	/	23.0	/	
GSM 850	GPRS 4TS	11#	24.5	24.0	/	/	22.6	/	
	GPRS 2TS	11#	25.0	/	25.0	/	/	/	
	GPRS 2TS	41#	22.0	22.0	22.0	/	/	/	
GSM 1900	GPRS 4TS	41#	21.5	/	/	/	21.0	/	
GSW 1900	GPRS 4TS	1.14	20.8	18.3	/	18.3	/	/	
	GPRS 2TS	14#	21.3	/	21.3	/	/	/	
MCDMA DO	RMC	41#	23.3	23.3	21.3	/	19.8	/	
WCDMA_B2	RMC	14#	22.6	17.1	22.6	19.1	/	/	
WCDMA B4	RMC	41#	24.0	24.0	21.0	/	20.0	/	
WCDIVIA_B4	RMC	14#	23.3	16.8	23.3	19.8	/	/	
WCDMA_B5	RMC	31#	24.0	24.0	24.0	/	23.5	/	
WCDIVIA_B3	RMC	11#	24.0	22.5	24.0	/	21.5	/	
	QPSK	41#	23.3	23.3	21.8	/	20.8	/	
LTC D2/25	QPSK	14#	22.6	17.6	22.6	20.6	/	/	
LTE_B2/25	QPSK	12#	22.5	18.5	21.5	/	20.0	/	
	QPSK	24#	21.0	19.5	21.0	/	21.0	/	
	QPSK	41#	24.3	24.3	20.8	/	19.8	/	
ITE DA	QPSK	14#	23.6	17.1	23.6	19.6	/	/	
LTE_B4	QPSK	12#	23.5	17.5	20.5	/	19.0	/	
	QPSK	24#	22.2	18.7	22.2	/	22.2	/	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's soile responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com

or email: CN_Doccheck@sgs.com

No.1 Workshop, M·10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guargdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 12 of 15

LTE DE	QPSK	31#	24.3	24.3	24.3	/	23.8	/
LTE_B5	QPSK	11#	24.3	22.3	24.3	/	20.8	/
	QPSK	41#	24.3	24.3	20.3	/	18.8	/
LTC D7	QPSK	14#	23.7	15.2	23.7	17.7	/	/
LTE_B7	QPSK	12#	23.7	15.7	18.7	/	17.2	/
	QPSK	24#	21.4	14.9	18.9	/	17.9	/
LTE DAG	QPSK	31#	23.5	23.5	23.5	/	23.5	/
LTE_B12	QPSK	11#	23.5	21.5	23.5	/	21.5	/
LTE DAG	QPSK	31#	23.5	23.5	23.5	/	23.5	/
LTE_B13	QPSK	11#	23.5	23.0	23.5	/	19.5	/
LTC D47	QPSK	31#	23.5	23.5	23.5	/	23.5	/
LTE_B17	QPSK	11#	23.5	21.5	23.5	/	21.0	/
	QPSK	41#	23.3	23.3	21.8	/	20.8	/
LTE DOE	QPSK	14#	22.6	17.6	22.6	20.6	/	/
LTE_B25	QPSK	12#	22.5	18.5	21.5	/	20.0	/
	QPSK	24#	21.0	19.5	21.0	/	21.0	/
LTE Doe	QPSK	31#	24.3	24.3	24.3	/	23.8	/
LTE_B26	QPSK	11#	24.3	22.3	24.3	/	20.8	/
	QPSK	41#	22.3	22.3	20.3	/	17.8	/
LTE DOG	QPSK	14#	21.3	14.8	21.3	18.3	/	/
LTE_B38	QPSK	12#	21.2	15.7	19.2	/	17.7	/
	QPSK	24#	20.3	15.3	20.3	/	18.8	/
	QPSK	41#	22.3	22.3	20.3	/	17.8	/
ITE D44	QPSK	14#	21.3	14.8	21.3	18.3	/	/
LTE_B41	QPSK	12#	21.2	15.7	19.2	/	17.7	/
	QPSK	24#	20.3	15.3	20.3	/	18.8	/
	QPSK	14#	21.5	13.0	21.5	13.0	/	17.5
LTE D40	QPSK	23#	18.5	13.5	18.5	/	18.0	/
LTE_B42	QPSK	13#	22.0	13.5	18.0	/	16.5	/
	QPSK	21#	18.5	18.5	18.5	/	18.5	/
LTE DOG	QPSK	41#	24.3	24.3	20.8	/	19.8	/
LTE_B66	QPSK	14#	23.6	17.1	23.6	19.6	/	/



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without providing approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAl.Doccheck@sgs.com"

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CM.Doccheck@ags.com

No.1 Workshop, M·I.Q, Middle Sedion, Science & Technology Part, Nanshan Districk, Sherzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10株1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 13 of 15

	QPSK	12#	23.5	17.5	20.5	/	19.0	/
	QPSK	24#	22.2	18.7	22.2	/	22.2	/
	QPSK	41#	23.3	23.3	20.8	/	19.3	/
ND50 NO CA	QPSK	14#	22.6	16.6	22.6	20.1	/	/
NR5G_N2-SA	QPSK	12#	22.5	17.0	21.5	/	20.0	/
	QPSK	24#	21.0	18.5	21.0	/	21.0	/
	QPSK	41#	23.8	23.8	21.3	/	19.8	/
NDEC NO NO	QPSK	14#	23.3	17.3	23.3	20.8	/	/
NR5G_N2-NSA	QPSK	12#	23.3	17.8	22.3	/	20.8	/
	QPSK	24#	21.8	19.3	21.8	/	21.8	/
NDEC NE	QPSK	31#	24.5	24.5	24.5	/	23.5	/
NR5G_N5	QPSK	11#	24.5	22.5	24.5	/	22.0	/
	QPSK	41#	24.0	24.0	20.0	/	18.5	/
NIDEO NIZ OA	QPSK	14#	23.0	15.5	23.0	18.0	/	19.5
NR5G_N7-SA	QPSK	12#	22.9	15.4	19.4	/	17.9	/
	QPSK	24#	20.7	14.2	18.2	/	17.2	/
	QPSK	41#	24.5	24.5	20.8	/	19.3	/
NDEC NZ NOA	QPSK	14#	23.7	16.5	23.7	19.0	/	20.5
NR5G_N7-NSA	QPSK	12#	23.7	16.5	20.5	/	19.0	/
	QPSK	24#	21.4	15.2	19.2	/	18.2	/
NR5G_N26	QPSK	31#	24.5	24.5	24.5	/	23.5	/
INKSG_INZO	QPSK	11#	24.5	22.5	24.5	/	22.0	23.0
	QPSK	41#	24.5	24.5	19.5	/	18.0	/
NR5G_N38-SA	QPSK	14#	23.5	14.5	23.5	18.0	/	/
NR3G_N36-3A	QPSK	12#	23.5	15.5	19.5	/	18.0	/
	QPSK	24#	22.6	14.1	19.1	/	17.6	/
	QPSK	41#	24.5	24.5	20.5	/	19.0	/
NR5G_N38-NSA	QPSK	14#	23.5	15.5	23.5	19.0	/	/
NCUC_N30-N3A	QPSK	12#	23.5	16.5	20.5	/	19.0	/
	QPSK	24#	21.2	14.1	19.1	/	17.6	/
NR5G_N41-PC2 SA	QPSK	41#	26.5	26.5	19.5	/	18.0	/
NICOG_N41-FOZ SA	QPSK	14#	25.5	16.0	24.0	18.5	/	20.0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without providing approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAl.Doccheck@sgs.com"

 or email:
 CN. Doccheck@sgs.com
 t (86-755) 26012053
 f (86-755) 26710594
 www.sgsgroup.com.cn

 No.1 Workshop, M-10, Middle Section, Science & Rectanding Part, Narshan District, Shenzhen, Guangtong, China 518057
 t (86-755) 26012053
 f (86-755) 26710594
 wwww.sgsgroup.com.cn

 中国・广东・深圳市南山区科技园中区M-10株1号厂房 邮编: 518057
 t (86-755) 26012053
 f (86-755) 26710594
 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

Page: 14 of 15

	QPSK	12#	25.4	16.4	19.4	/	17.9	/
	QPSK	24#	23.8	15.3	20.3	/	18.8	/
	QPSK	41#	26.5	26.5	20.5	/	19.0	/
NDEC NA DOONGA	QPSK	14#	25.7	17.0	25.0	19.5	/	21.0
NR5G_N41-PC2 NSA-	QPSK	12#	25.7	17.5	20.5	/	19.0	/
	QPSK	24#	24.2	16.5	21.5	/	20.0	/
	QPSK	41#	25.0	25.0	19.5	/	18.0	/
NDSO NAA DOO OA	QPSK	14#	24.0	16.0	24.0	18.5	/	20.0
NR5G_N41-PC3 SA	QPSK	12#	23.9	16.4	19.4	/	17.9	/
	QPSK	24#	22.3	15.3	20.3	/	18.8	/
	QPSK	41#	25.0	25.0	20.5	/	19.0	/
NIDEO NIA DOS NICA	QPSK	14#	24.2	17.0	24.2	19.5	/	21.0
NR5G_N41-PC3 NSA-	QPSK	12#	24.2	17.5	20.5	/	19.0	/
	QPSK	24#	22.7	16.5	21.5	/	20.0	/
	QPSK	41#	23.5	23.5	21.0	/	18.5	/
NDEC NCC CA	QPSK	14#	22.8	16.8	22.8	17.8	/	19.8
NR5G_N66 SA	QPSK	12#	22.7	17.2	20.7	/	19.2	/
	QPSK	24#	21.4	16.9	21.4	/	21.4	/
	QPSK	41#	24.1	24.1	21.6	/	19.1	/
NDEC NCCNCA	QPSK	14#	23.5	17.5	23.5	18.5	/	20.5
NR5G_N66 NSA	QPSK	12#	23.5	18.0	21.5	/	20.0	/
	QPSK	24#	22.4	17.9	22.4	/	22.4	/
	QPSK	14#	23.5	14.0	21.0	15.5	/	17.5
NDEC NZZ	QPSK	23#	20.5	13.5	18.5	/	17.0	/
NR5G_N77	QPSK	13#	24.0	12.5	18.5	/	17.0	/
	QPSK	21#	20.5	16.0	17.0	/	15.5	/
	QPSK	14#	26.5	14.0	21.0	15.5	/	17.5
NDEC NZO DOG	QPSK	23#	23.5	13.5	18.5	/	17.0	/
NR5G_N78 PC2	QPSK	13#	27.0	12.5	18.5	/	17.0	/
	QPSK	21#	23.5	16.0	17.0	/	15.5	/
NDEC NZO DOS	QPSK	14#	25.0	14.0	21.0	15.5	/	17.5
NR5G_N78 PC3	QPSK	23#	22.0	13.5	18.5	/	17.0	/



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without providing approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAl.Doccheck@sgs.com"

 or email:
 CN. Doccheck@sgs.com
 t (86-755) 26012053
 f (86-755) 26710594
 www.sgsgroup.com.cn

 No.1 Workshop, M-10, Middle Section, Science & Rectanding Part, Narshan District, Shenzhen, Guangtong, China 518057
 t (86-755) 26012053
 f (86-755) 26710594
 wwww.sgsgroup.com.cn

 中国・广东・深圳市南山区科技园中区M-10株1号厂房 邮编: 518057
 t (86-755) 26012053
 f (86-755) 26710594
 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200460901

15 of 15 Page:

QPSK	13#	25.5	12.5	18.5	/	17.0	/
QPSK	21#	22.0	16.0	17.0	/	15.5	/

Note:

- 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + Total uncertainty.
- 2) The max allowed output power is the Plimit + Total uncertainty, and if Plimit is higher than Pmax, the device output power will be P_{max} instead.
- 3) Note that WLAN operations are not enabled with Smart Transmit.

4) The following table is duty cycle and factor used for calculating time average power.

Mode	Duty Cycle	Time Average calculation Factor
GSM 1TX/CS	12.5%	-9.0
GSM 2TX	25.0%	-6.0
GSM 3TX	37.5%	-4.3
GSM 4TX	50.0%	-3.0
WCDMA / LTE FDD	100.0%	0.0
LTE TDD	63.3%	-2.0
LTE TDD HPUE	43.3%	-3.6
NR FDD/TDD	100.0%	0.0

- End of Report -

