### **EMC TEST REPORT**

ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.1.1 (2019-03) ETSI EN 301 489-17 V3.2.4 (2020-09) ETSI EN 301 489-19 V2.1.1 (2019-04) ETSI EN 301 489-52 V1.2.1 (2021-11) EN 55032:2015+A1:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A2:2021

> Product : Smart phone Trade Mark : Blackview Model Name : BV9200 Family Model : N/A Report No. : STR221018001012E

#### **Prepared for**

DOKE COMMUNICATION (HK) LIMITED

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

#### Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China
 Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website: http://www.ntek.org.cn

#### Report No.: STR221018001012E Page 2 of 74

#### **TEST RESULT CERTIFICATION**

Applicant's Name	DOKE COMMUNICATION (HK) LIMITED
Address	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA
Manufacturer's Name	Shenzhen DOKE Electronic Co.,Ltd
Address	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China
Product description	
Product name:	Smart phone
Trade Mark:	Blackview
Model Name :	BV9200
Family Model:	N/A
	ETSI EN 301 489-1 V2.2.3 (2019-11)
	ETSI EN 301 489-3 V2.1.1 (2019-03)
	ETSI EN 301 489-17 V3.2.4 (2020-09)
Standards	ETSI EN 301 489-19 V2.1.1 (2019-04)
	ETSI EN 301 489-52 V1.2.1 (2021-11)
	EN 55032:2015+A1:2020; EN 55035:2017+A11:2020
	EN IEC 61000-3-2:2019+A1:2021;EN 61000-3-3:2013+A2:2021

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the of article 3.1(b) of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

Test Sample Number ...... T221018001R003

Date of Test

Date (s) of performance of tests .....: Oct 18, 2022 ~ Nov 15, 2022

Date of Issue..... Nov 15, 2022

Test Result..... Pass

Testing Engineer

Allen. Huang (Allen Huang)

Authorized Signatory:

(Alex Li)

#### Page 3 of 74 Report No.: STR221018001012E

			®
ΎΕ	· K '	76.	
		JUI	

			7
	Table of Contents	е	
	1. TEST SUMMARY	5	A.C.
	1.1 TEST FACILITY 1.2 MEASUREMENT UNCERTAINTY	7 7	
	2 . GENERAL INFORMATION 2.1 GENERAL DESCRIPTION OF EUT 2.2 DESCRIPTION OF TEST MODES	9 9 11	
	2.3 DESCRIPTION OF TEST SETUP 2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	13 14	
		15 19	
	3.1.1 POWER LINE CONDUCTED EMISSION 3.1.2 TELECOMMUNICATION PORT CONDUCTED EMISSION(VOLTAGE LIMIT 3.1.3 TEST PROCEDURE 3.1.4 TEST SETUP 3.1.5 EUT OPERATING CONDITIONS	19 19 22 22 22 23	20
	3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT23.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT23.2.3 TEST PROCEDURE23.2.4 TEST SETUP23.2.5 EUT OPERATING CONDITIONS23.2.6 TEST RESULTS (30-1000MHz)2	25 25 26 27 27 28 29 31	
	3.3.1 LIMITS OF HARMONICS CURRENT33.3.2 TEST PROCEDURE33.3.3 EUT OPERATING CONDITIONS33.3.4 TEST SETUP3	32 32 33 33 33 33 33	
2	3.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS33.4.2 TEST PROCEDURE33.4.3 EUT OPERATING CONDITIONS33.4.4 TEST SETUP3	35 35 35 35 35 36 37	

#### Page 4 of 74 Report No.: STR221018001012E

	Table of Contents	Page
	4. EMC IMMUNITY TEST	38
	4.1 GENERAL PERFORMANCE CRITERIA 4.1.1 PERFORMANCE CRITERIA	38 <b>3</b> 8 <b>3</b> 8
	4.2 GENERAL PERFORMANCE CRITERIA TEST SETUP	42
	4.3 ESD TESTING	43
	4.3.1 TEST SPECIFICATION	43
	4.3.2 TEST PROCEDURE 4.3.3 TEST SETUP	43 44
	4.3.4 TEST RESULTS	45
<	4.3.5 PHOTO(S) SHOWN THE LOCATION(S) OF ESD EVALUATED	48
	4.4 RS TESTING	49
	4.4.1 TEST SPECIFICATION	49
	4.4.2 TEST PROCEDURE 4.4.3 TEST SETUP	49 50
	4.4.4 TEST RESULTS	50
	4.5 EFT/BURST TESTING	55
	4.5.1 TEST SPECIFICATION	55
	4.5.2 TEST PROCEDURE	55
	4.5.3 TEST SETUP	56
	4.5.4 TEST RESULTS	57
	4.6 SURGE TESTING	59 59
	4.6.2 TEST PROCEDURE	59
	4.6.3 TEST SETUP	60
	4.6.4 TEST RESULTS	61
	4.7 INJECTION CURRENT TESTING	63
	4.7.1 TEST SPECIFICATION	63
	4.7.2 TEST PROCEDURE 4.7.3 TEST SETUP	63 63
	4.7.4 TEST RESULTS	65
	4.8 VOLTAGE INTERRUPTION/DIPS TESTING	68
	4.8.1 TEST SPECIFICATION	68
	4.8.2 TEST PROCEDURE	68
	4.8.3 TEST SETUP 4.8.4 TEST RESULTS	68 69
	5.EUT TEST PHOTO	70

NTEK 北测<sup>®</sup>

Page 5 of 74 Report No.: STR221018001012E

TEST SUMMARY				7		
ETSI EN 301 489-1 V ETSI EN 301 489-3 V	/2.2.3 (2 /2.1.1 (2	2019-03)			- 4	*
	V2.1.1( V1.2.1( 2020; EN	(2019-04)				
		EMC Emission				
Standard		Test Item		Limit	Judgmer	nt Remar
* stor	Cond	ucted Emission On AC And Te Port 150kHz to 30MHz	lecom	Class	BPASS	
		sturbance Voltage at The Anter Terminals (30MHz To 2150MHz			N/A	×
EN 55032:2015+A1:202 0		d signal and disturbance voltag RF output terminals (30MHz To 2150MHz)	,		N/A	
	1 1	Radiated Emission 30MHz to 1000MHz	~	Class	B PASS	
Ref of		Radiated Emission 1GHz to 6GHz	L'É	Class	B PASS	
EN IEC 61000-3-2:2019+A1: 2021		Harmonic Current Emission		Class	A N/A	NOTE (1
EN 61000-3-3:2013+A2: 2021		Voltage Fluctuations & Flicker	*		PASS	2+
		EMC Immunity				
Section EN 55035:2017+A11	1:2020	Test Item	Perform Crite		Judgment	Remark
EN 61000-4-2:20	09	Electrostatic Discharge	В	1	PASS	
EN 61000-4-3:200 A1:2008+A2:201		RF electromagnetic field	A		PASS	
EN 61000-4-4:20	)12	Fast transients	В		PASS	4
EN 61000-4-5:20 <sup>-</sup> A1:2017	14+	Surges	В		PASS	
EN 61000-4-6:20	)14	Continuous radio frequency disturbances or Injected Current	A		PASS	A.C.
EN 61000-4-8:20	110	Power Frequency Magnetic Field	A	۹ 	N/A	NOTE (3
EN 61000-4-11:20	004	Volt. Interruptions Volt. Dips	В / С <b>NO</b> TE		PASS	

N2017.03.22.0322.V.1.0

#### Page 6 of 74 Report No.: STR221018001012E

#### NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2) Voltage dip: 100% reduction – Performance Criteria B

Voltage dip: 30% reduction – Performance Criteria C

Voltage Interruption: 100% Interruption – Performance Criteria C

(3) Applicable only to equipment containing devices intrinsically susceptible to magnetic fields, such as CRT monitors, Hall effect elements, electro-dynamic microphones, magnetic field sensors or audio frequency transformers.

(4) For client's request and manual description, the test will not be executed.

Page 7 of 74 \_\_\_\_ Report No.: STR221018001012E

#### 2 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd. Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China

CNAS-Lab.	:	The Certificate Registration Number is L5516
IC-Registration	:	The Certificate Registration Number is CN0074
FCC- Accredited	:	Test Firm Registration Number: 463705
		Designation Number: CN1184
A2LA-Lab.	:	The Certificate Registration Number is 4298.01
		This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.
		This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

#### **3 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

Test Item	Measurement Frequency Range	к	U(dB)
AC Mains Conducted Emission	0.009kHz ~ 0.15MHz	2	2.66
AC Mains Conducted Emission	0.15MH ~ 30MHz	2	2.80
Telecom Conducted Emission (Cat 3)	0.15MHz ~ 30MHz	2	2.40
Telecom Conducted Emission (Cat 5)	0.15MHz ~ 30MHz	2	2.58
Radiated Emission	30MHz ~ 1000MHz	2	2.64
Radiated Emission	1000MHz ~ 6000MHz	2	2.40
Radiated Emission	6000MHz ~ 18000MHz	2	2.52
	AC Mains Conducted Emission AC Mains Conducted Emission Telecom Conducted Emission (Cat 3) Telecom Conducted Emission (Cat 5) Radiated Emission Radiated Emission	AC Mains Conducted Emission0.009kHz ~ 0.15MHzAC Mains Conducted Emission0.15MH ~ 30MHzTelecom Conducted Emission (Cat 3)0.15MHz ~ 30MHzTelecom Conducted Emission (Cat 5)0.15MHz ~ 30MHzRadiated Emission30MHz ~ 1000MHzRadiated Emission1000MHz ~ 6000MHz	AC Mains Conducted Emission0.009kHz ~ 0.15MHz2AC Mains Conducted Emission0.15MH ~ 30MHz2Telecom Conducted Emission (Cat 3)0.15MHz ~ 30MHz2Telecom Conducted Emission (Cat 5)0.15MHz ~ 30MHz2Radiated Emission30MHz ~ 1000MHz2Radiated Emission1000MHz ~ 6000MHz2

Page 8 of 74 \_\_\_\_ Report No.: STR221018001012E

Report No.	Version	Description	Issued Date
STR221018001012E	Rev.01	Initial issue of report	Nov 15, 2022
		2	, -
	5		
			<del>Y</del>
	×		
Æ		ς	
	<b>Ç</b>		
<b>C</b>		S' I	
	<u>S</u>		
A S			
		ふ 、 、 、 、 、 、	
<u> </u>			1
* * .			
V ·	Q		×-
	4		
- 5		L L	
•	×	<u>k</u>	X
		く	S.
		X X	•
<u> </u>			
		* *	
< <	*		
4			~ ~

Page 9 of 74 \_\_\_\_ Report No.: STR221018001012E

.1 GENERAL DESCR	
Equipment	Smart phone
Trade Mark	Blackview
Model Name	BV9200
Family Model	N/A
Model Difference	N/A
	<ul> <li>☑BT: 2402~2480 MHz</li> <li>☑2.4G WIFI: 802.11b/g/n(20MHz): 2412~2472MHz 802.11n(40MHz):2422~2462MHz</li> <li>☑5G WIFI:802.11a/ n(20/40)/ ac(20/40/80): 5180MHz~5240MHz;(20MHz) 5190MHz~5230MHz;(40MHz) 5210MHz;(80MHz) 5745-5825 MHz for 802.11a/n20/ac20; 5755-5795 MHz for 802.11a/n20/ac20; 5775MHz for 802.11 ac80;</li> <li>☑GSM/GPRS/EGPRS 900: 880~915MHz(TX) 925~960MHz (Rx)</li> <li>☑GSM/GPRS/EGPRS 1800: 1710~1785MHz(TX) 1805~1880MHz(Rx)</li> <li>☑WCDMA Band I: 1920 MHz ~1980 MHz(TX); 2110 MHz~2170 MHz(RX)</li> <li>WCDMA Band VII: 880~915MHz(TX); 925~960MHz(RX)</li> </ul>
Frequency Bands:	<ul> <li>E-UTRA FDD Band I, III, VII, VIII, XX , XXVIII</li> <li>E-UTRA TDD XL</li> <li>FDD Band I: Uplink: 1920 MHz to 1980MHz</li> <li>Downlink: 2110 MHz to 2170 MHz</li> <li>FDD Band III: Uplink:1710 MHz to 1785 MHz</li> <li>Downlink: 1805 MHz to 1880 MHz</li> <li>FDD Band VII: Uplink: 2500 MHz to 2570 MHz</li> <li>Downlink: 2620 MHz to 2690 MHz</li> <li>FDD Band VIII: Uplink: 880MHz to 915 MHz</li> <li>Downlink: 925 MHz to 960 MHz</li> <li>FDD Band XX: Uplink: 832 MHz to 862 MHz</li> <li>Downlink: 791 MHz – 821 MHz</li> <li>FDD Band XXVIII: Uplink: 703 MHz to 748MHz</li> <li>Downlink: 758 MHz to 803 MHz</li> <li>TDD Band XL: Uplink &amp; Downlink: 2300 MHz to 2400 MHz</li> <li>MReceiver: 87.5 MHz to 108 MHz</li> </ul>

Page 10 of 74 Report No.: STR221018001012E

Modulation Mode:	BT(1Mbps)/BLE: GFSK         BT EDR(2Mbps): π/4-DQPSK         BT EDR(3Mbps): 8-DPSK         BLE(2Mbps): GFSK         IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK)         IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)         802.11a:OFDM (BPSK / QPSK / 16QAM)         802.11a:OFDM (QPSK/BPSK/16QAM/64QAM)         802.11a:OFDM (QPSK/BPSK/16QAM/64QAM)         802.11a:OFDM (QPSK/BPSK/16QAM/64QAM)         S02.11a:OFDM (QPSK/BPSK/16QAM/64QAM/256QAM)         S03       GPS: BPSK modulation         FM Receiver: FM;         SNFC: ASK         WPT:(Load modulation)
Adapter	Model: QZ-06502EC00 Input: 100-240V~50/60Hz 1.5A Output: 5.0V3.0A or 9.0V3.0A or 12.0V3.0A or 15.0V3.0A or 20.0V 3.25A (PPS)3.3V~21.0V3.15A(66.0W Max)
Battery	DC 3.87V, 5000mAh, 19.35Wh
Rating	DC 3.87V from battery or DC 5V from adapter
Connecting I/O Port(s)	Please refer to the User's Manual
Antenna:	BT/WIFI/GPS: PIFA Antenna; GSM/WCDMA/LTE: PIFA Antenna; FM: Use earphone as Antenna; NFC/ WPT: Induction coil
Hard Ware Version	HCT-G680MB-A4
Soft Ware Version	BV9200_EEA_G680_V1.0_20221109V11

#### Page 11 of 74 Report No.: STR221018001012E

### NTEK 北测<sup>®</sup>

#### 1.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

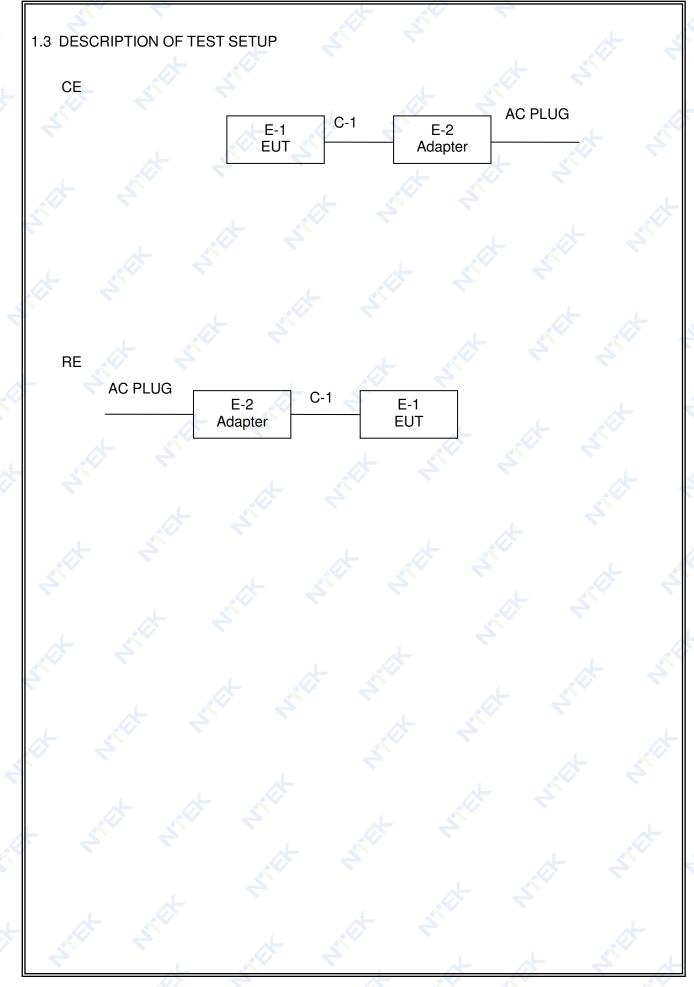
Pretest Mode	Description		
Mode 1	Charging + REC(Rear / Front)		
Mode 2	Charging + TF Playing		
Mode 3	Data transmission		
Mode 4	Charging + FM(87.6MHz / 98MHz / 107.9MHz)		
Mode 5	BT Link mode		
Mode 6	Wi-Fi 2.4G/ Wi-Fi 5.2G/ Wi-Fi 5.8G		
Mode 7	GSM / GPRS / EGPRS 900 / 1800		
Mode 8	WCDMA / HSDPA / HSUPA B1 / B8		
Mode 9	LTE Band 1 / 3 / 7 / 8 / 20 / 28 / 40		
Mode 10	GPS Receiver		
Mode 11 NFC			
Mode 12	WPT		

For Conducted Test		
Final Test Mode	Description	
Mode 1	Charging + REC(Rear)	

	For Radiated Test
Final Test Mode	Description
Mode 1	Charging + REC(Rear)
<u> </u>	
	For EMS Test
Pretest Mode	Description
Mode 1	Charging + REC(Rear / Front)
Mode 2	Charging + TF Playing
Mode 3	Data transmission
Mode 4	Charging + FM(87.6MHz / 98MHz / 107.9MHz)
Mode 5	BT Link mode
Mode 6	Wi-Fi 2.4G/ Wi-Fi 5.2G/ Wi-Fi 5.8G
Mode 7	GSM / GPRS / EGPRS 900 / 1800
Mode 8	WCDMA / HSDPA / HSUPA B1 / B8
Mode 9	LTE Band 1 / 3 / 7 / 8 / 20 / 28 / 40
Mode 10	GPS Receiver
Mode 11	NFC
Mode 12	WPT

NOTE: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data was showed.

Page 13 of 74 Report No.: STR221018001012E



#### 1.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Smart phone	BV9200	N/A	EUT
E-2	Adapter	QZ-06502EC00	< <u> </u> N/A	Peripherals
	1			×
				~ ~
	1	A I		

			•		
Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	💉 1.0m 🤝	4
	5	. [			
			7		

Note:

(1) (2)

- The support equipment was authorized by Declaration of Confirmation.
- For detachable type I/O cable should be specified the length in cm in [Length] column.

#### Page 15 of 74 Report No.: STR221018001012E

#### 1.5 MEASUREMENT INSTRUMENTS LIST

#### 1.5.1CONDUCTED EMISSION

	.0.10	CONDUCTED E						
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
	4	Test Cable	N/A	C01	N/A	Mar. 29, 2021	Mar. 28, 2024	3 years
	2	Test Cable	N/A	C02	N/A	Mar. 29, 2021	Mar. 28, 2024	3 years
	3	Test Cable	N/A	C03	N/A	Mar. 29, 2021	Mar. 28, 2024	3 years
	4	Pulse Limiter	SCHWARZBE CK	VTSD 9561F	9716	Apr .06, 2022	Apr .05, 2023	1 year
	5	50Ω Switch	ANRITSU CORP	MP59B	620098370 4	May. 11, 2021	May. 10, 2024	3 year
2	6	EMI Test Receiver	R&S	ESCI	101160	Apr .06, 2022	Apr .05, 2023	1 year
	7	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Apr .06, 2022	Apr .05, 2023	1 year
	8	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Apr .06, 2022	Apr .05, 2023	1 year
	9	LISN	SCHWARZBE CK	NNLK 8129	8129245	Apr .06, 2022	Apr .05, 2023	1 year
	10		R&S	ENV216	101313	Apr .06, 2022	Apr .05, 2023	1 year
	<b>F</b> 0			* *				
I	_	RADIATED TES						Calibration
	Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	period
					4			ponoa
	1	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
	1 2	Turn Table	EM EM	SC100_1 SC100	N/A 060531	N/A N/A	N/A N/A	
								N/A
	2	Turn Table EMI Test	EM	SC100	060531 101318 620098370 5	N/A Apr .06, 2022 May. 11, 2021	N/A	N/A N/A
	2 3	Turn Table EMI Test Receiver 50Ω Switch Spectrum Analyzer	EM R&S	SC100 ESCI-7	060531 101318	N/A Apr .06, 2022 May. 11, 2021	N/A Apr .05, 2023	N/A N/A 1 year
	2 3 4	Turn Table EMI Test Receiver 50Ω Switch Spectrum	EM R&S Anritsu Corp	SC100 ESCI-7 MP59B	060531 101318 620098370 5 MY451080	N/A Apr .06, 2022 May. 11, 2021	N/A Apr .05, 2023 May. 10, 2024	N/A N/A 1 year 3 year
	2 3 4 5	Turn Table EMI Test Receiver 50Ω Switch Spectrum Analyzer Unversal radio communication	EM R&S Anritsu Corp Aglient R&S	SC100 ESCI-7 MP59B E4407B	060531 101318 620098370 5 MY451080 40 1100.008.0	N/A Apr .06, 2022 May. 11, 2021 Apr .01, 2022	N/A Apr .05, 2023 May. 10, 2024 Mar .31 2023	N/A N/A 1 year 3 year 1 year
	2 3 4 5 6	Turn Table EMI Test Receiver 50Ω Switch Spectrum Analyzer Unversal radio communication tester Wideband Radio Communication Tester	EM R&S Anritsu Corp Aglient R&S	SC100 ESCI-7 MP59B E4407B CMU200	060531 101318 620098370 5 MY451080 40 1100.008.0 2	N/A Apr .06, 2022 May. 11, 2021 Apr .01, 2022 Jun.16, 2022	N/A Apr .05, 2023 May. 10, 2024 Mar .31 2023 Jun.15, 2023	N/A N/A 1 year 3 year 1 year 1 year
	2 3 4 5 6 7	Turn Table EMI Test Receiver 50Ω Switch Spectrum Analyzer Unversal radio communication tester Wideband Radio Communication Tester Specifications	EM R&S Anritsu Corp Aglient R&S R&S	SC100 ESCI-7 MP59B E4407B CMU200 CMW500	060531 101318 620098370 5 MY451080 40 1100.008.0 2 148500	N/A Apr .06, 2022 May. 11, 2021 Apr .01, 2022 Jun.16, 2022 Jun.16, 2022	N/A Apr .05, 2023 May. 10, 2024 Mar .31 2023 Jun.15, 2023 Jun.15, 2023	N/A N/A 1 year 3 year 1 year 1 year 1 year
	2 3 4 5 6 7 8	Turn Table EMI Test Receiver 50Ω Switch Spectrum Analyzer Unversal radio communication tester Wideband Radio Communication Tester Specifications Test Cable	EM R&S Anritsu Corp Aglient R&S R&S N/A	SC100 ESCI-7 MP59B E4407B CMU200 CMW500 R-01	060531 101318 620098370 5 MY451080 40 1100.008.0 2 148500 N/A	N/A Apr .06, 2022 May. 11, 2021 Apr .01, 2022 Jun.16, 2022 Jun.16, 2022 Jun. 17, 2022	N/A Apr .05, 2023 May. 10, 2024 Mar .31 2023 Jun.15, 2023 Jun.15, 2023 Jun. 16, 2025	N/A N/A 1 year 3 year 1 year 1 year 1 year 3 years
T X N	2 3 4 5 6 7 8 9	Turn Table EMI Test Receiver 50Ω Switch Spectrum Analyzer Unversal radio communication tester Wideband Radio Communication Tester Specifications Test Cable Test Cable	EM R&S Anritsu Corp Aglient R&S R&S N/A N/A	SC100 ESCI-7 MP59B E4407B CMU200 CMW500 R-01 R-02	060531 101318 620098370 5 MY451080 40 1100.008.0 2 148500 N/A N/A	N/A Apr .06, 2022 May. 11, 2021 Apr .01, 2022 Jun.16, 2022 Jun.16, 2022 Jun. 17, 2022 Jun. 17, 2022	N/A Apr .05, 2023 May. 10, 2024 Mar .31 2023 Jun.15, 2023 Jun.15, 2023 Jun. 16, 2025 Jun. 16, 2025	N/A N/A 1 year 3 year 1 year 1 year 1 year 3 years 3 years

Page 16 of 74 Report No.: STR221018001012E

.5.3	HARMONICS A	ND FILCK					
Item	Kind of	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio period
1	Harmonic & Flicker	EM TEST	DPA500	0303-04	Apr .06, 2022	Apr .05, 2023	1 year
2	AC Power Source	EM TEST	ACS500	0203-01	Apr .06, 2022	Apr .05, 2023	1 year
3	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jun. 16, 2022	Jun. 15, 2023	1 year
4	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jun. 16, 2022	Jun. 15, 2023	1 year
.5.4	ESD						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jun. 16, 2022	Jun. 15, 2023	1 year
2	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jun. 16, 2022	Jun. 15, 2023	1 year
3	Electrostatic Discharge Generator	Lioncel	ESD-203B	ESD203B0 150402	Jun. 16, 2022	Jun. 15, 2023	1 year
.5.5	RS	~ ~		,		*	
Item	Kind of	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio period
1	Unversal radio communication		1				
	tester	R&S	CMU200	1100.008.0 2	Jun. 16, 2022	Jun. 15, 2023	1 year
2		R&S R&S	CMU200 CMW500		Jun. 16, 2022 Jun. 16, 2022	Jun. 15, 2023 Jun. 15, 2023	1 year 1 year
2	tester Wideband Radio Communication Tester	7		2	Jun. 16, 2022		
	tester Wideband Radio Communication Tester Specifications Audio Power	R&S	CMW500	2	Jun. 16, 2022	Jun. 15, 2023	1 year
3	tester Wideband Radio Communication Tester Specifications Audio Power Amplifier Mouth Simulator Sound Calibrator	R&S Brüel & Kjær	CMW500 4602B	2 148500 2185667	Jun. 16, 2022 Jun. 16, 2022 Apr .06, 2022	Jun. 15, 2023 Apr .05, 2023	1 year 1 year
3	tester Wideband Radio Communication Tester Specifications Audio Power Amplifier Mouth Simulator Sound Calibrator 1/2" Pressure- field Microphone	R&S Brüel & Kjær Brüel & Kjær	CMW500 4602B 2669	2 148500 2185667 2143265	Jun. 16, 2022 Jun. 16, 2022 Apr .06, 2022 Apr .06, 2022	Jun. 15, 2023 Apr .05, 2023 Apr .05, 2023	1 year 1 year 1 year
3 4 5	tester Wideband Radio Communication Tester Specifications Audio Power Amplifier Mouth Simulator Sound Calibrator 1/2" Pressure- field	R&S Brüel & Kjær Brüel & Kjær Brüel & Kjær	CMW500 4602B 2669 4185	2 148500 2185667 2143265 2194825	Jun. 16, 2022 Jun. 16, 2022 Apr .06, 2022 Apr .06, 2022	Jun. 15, 2023 Apr .05, 2023 Apr .05, 2023 Apr .05, 2023	1 year 1 year 1 year 1 year

Page 17 of 74 Report No.: STR221018001012E

9	Ear Simulator for Telephonometr y	Brüel & Kjær	4185	2553612	Apr .06, 2022	Apr .05, 2023	1 year
10	Bilog Antenna	ETS	3142E(Fequ ency range 30MHz to 6 GHz)	00214344	Mar. 30, 2022	Jun. 29, 2023	1 year
11	Broadband Amplifier	AR	60S1G6	0350414	Jun. 26, 2022	Jun. 25, 2023	1 year
12	MXG Vector Signal Generator	Agilent	N5182A	MY470703 17	Jun. 16, 2022	Jun. 15, 2023	1 year
13	Power Amplifier	rflight	NTWPA-00 810200	17063153	Jun. 17, 2022	Jun. 16, 2023	1 year
14	Power Amplifier	AR	25S1G4A	308598	Jun. 17, 2022	Jun. 16, 2023	1 year
15	Power Meter	Agilent	E4419B	MY451025 38	Jun. 17, 2022	Jun. 16, 2023	1 year
16	Power Sensor	Agilent	E9301A	MY414956 44	Jun. 17, 2022	Jun. 16, 2023	1 year
17	Power Sensor	Agilent	E9301A	US392121 48	Jun. 17, 2022	Jun. 16, 2023	1 year

#### 1.5.6 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Surge Generator	EVERFINE	EMS61000- 5A-V1	1101002	Apr .06, 2022	Apr .05, 2023	1 year
2	DIPS Generator 🗸	EVERFINE	EMS61000- 11K	1011002	Apr .06, 2022	Apr .05, 2023	1 year
3	EFT/B Generator	EVERFINE	EMS61000- 4A-V2	1012005	Apr .06, 2022	Apr .05, 2023	1 year
4	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jun. 16, 2022	Jun. 15, 2023	1 year
5	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jun. 16, 2022	Jun. 15, 2023	1 year

#### 1.5.7 INJECTION CURRENT

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Attenuator	TESEQ	ATN 6075	38411	N/A	N/A	N/A
2	RF Cable	TESEQ	RF Cable	N/A	N/A	N/A	N/A
3	Signal Generator	R&S	SML03	100954	Nov.10, 2021 Nov.01, 2022	Nov. 09, 2022 Oct.31, 2023	1 year
4	Power Amplifier	TESEQ	CBA 230M-080	T44376	Jun. 16, 2022	Jun. 15, 2023	1 year
5	EM Clamp	FCC	F-203I-23M M	504	Apr .06, 2022	Apr .05, 2023	1 year
6	Audio Power Amplifier	Brüel & Kjær	4602B	2185667	Apr .06, 2022	Apr .05, 2023	1 year

Page 18 of 74 Report No.: STR221018001012E

7	, Mouth Simulator	Brüel & Kjær	2669	2143265	Apr .06, 2022	Apr .05, 2023	1 year
8	Sound Calibrator	Brüel & Kjær	4185	2194825	Apr .06, 2022	Apr .05, 2023	1 year
0	1/2" Pressure- field Microphone	Brüel & Kjær	735	2641678	Apr .06, 2022	Apr .05, 2023	1 year
1	0 Audio Analyzer	R&S	UPV	100419	Apr .06, 2022	Apr .05, 2023	1 year
1	Ear Simulator for Telephonometr y	Brüel & Kjær	4185	2553612	Apr .06, 2022	Apr .05, 2023	1 year
1:	2 Telephone Test Head	Brüel & Kjær	4185	2631728	Apr .06, 2022	Apr .05, 2023	1 year
	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jun .16, 2022	Jun .15, 2023	1 year
1	Wideband Radio 4 Communication Tester Specifications	R&S	CMW500	148500	Jun .16, 2022	Jun .15, 2023	1 year
1	Coupling and	TESEQ	CDN M016	38722	Apr .06, 2022	Apr .05, 2023	1 year

#### 2. EMC EMISSION TEST

#### 2.1 CONDUCTED EMISSION MEASUREMENT 2.1.1 POWER LINE CONDUCTED EMISSION

(Frequency Range 150kHz-30MHz)

 
 Table A.8 – Requirements for conducted emissions from the AC mains power ports of Class A equipment

Applicabl	e to			
1. AC mai	ns power ports (3.1.1)			
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class A limits dB(μV)
A8.1	0,15 - 0,5	A.M.N.I	Overi Deek / 0 kl la	79
	0,5 - 30	AMN	Quasi Peak / 9 kHz -	73
A8.2	0,15 - 0,5	AMN		66
	0,5 - 30	AIVIN	Average / 9 kHz	60

Apply A8.1 and A8.2 across the entire frequency range.

### Table A.9 – Requirements for conducted emissions from the AC mains power ports of Class B equipment

Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class B limits dB(µV)
A9.1	0,15 - 0,5			66 – 56
	0,5 – 5	AMN	Quasi Peak / 9 kHz	56
	5 – 30			60
A9.2	0,15 - 0,5			56 – 46
	0,5 – 5	AMN	Average / 9 kHz	46
	5 – 30			50

Apply A9.1 and A9.2 across the entire frequency range.

#### Note:

Applicable to

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 2.1.2 TELECOMMUNICATION PORT CONDUCTED EMISSION(VOLTAGE LIMITS)

#### (Frequency Range 150kHz-30MHz)

### Table A.10 – Requirements for asymmetric mode conducted emissions from Class A equipment

Арр	licab	le to
-----	-------	-------

wired network ports (3.1.30)
 optical fibre ports (3.1.24) with metallic shield or tension members
 antenna ports (3.1.3)

Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class A voltage limits dB(µV)	Class A current limits dB(µA)
A10.1	0,15 – 0,5				
	0,5 – 30	AAN	Quasi Peak / 9 kHz	87	
	0,15 – 0,5			84 – 74	n/a
	0,5 – 30	AAN	Average / 9 kHz	74	1
A10.2	0,15 – 0,5	5 CVP	Oursei Darsh (Olikila	97 – 87	53 – 43
	0,5 – 30	and current probe	Quasi Peak / 9 kHz	87	43
	0,15 – 0,5	CVP		84 – 74	40 – 30
	0,5 – 30	and current probe	Average / 9 kHz	74	30
A10.3	0,15 – 0,5	Current Drohe	Overi Beek / 0 kHz		53 – 43
	0,5 – 30	Current Probe	Quasi Peak / 9 kHz		43
	0,15 – 0,5	Ourset Darks		n/a	40 – 30
	0,5 – 30	Current Probe	Average / 9 kHz		30

The choice of coupling device and measurement procedure is defined in Annex C.

AC mains ports that also have the function of a wired network port shall meet the limits given in Table A.8.

The test shall cover the entire frequency range.

The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 for applicability.

Testing is required at only one EUT supply voltage and frequency.

Applicable to ports listed above and intended to connect to cables longer than 3 m.

#### Page 21 of 74 Report No.: STR221018001012E

#### Table A.12 – Requirements for conducted differential voltage emissions from Class B equipment

Applicable to

1. TV broadcast receiver tuner ports (3.1.8) with an accessible connector

2. RF modulator output ports (3.1.27)
 3. FM broadcast receiver tuner ports (3.1.8) with an accessible connector

Table clause	Frequency Detector type/ range bandwidth			Class B limits dB(μV) 75 Ω				
	MHz		Other	Local Oscillator Fundamental	Local Oscillator Harmonics			
A12.1	30 - 950		46	46	46	See a)		
	950 – 2 150	For frequencies ≤1 GHz	46	54	54			
A12.2	950 – 2 150	Quasi Peak/	46	54	54	See b)		
A12.3	30 – 300	120 kHz	46	54	50	See c)		
	300 – 1 000				52			
A12.4	30 – 300	For frequencies	46	66	59	See d)		
	300 – 1 000	≥1 GHz			52			
A12.5	30 – 950	Peak/ 1 MHz	46	76	46	See e)		
	950 – 2 150	1 1/11/2		n/a	54			

a) Television receivers (analogue or digital), video recorders and PC TV broadcast receiver tuner cards working in channels between 30 MHz and 1 GHz, and digital audio receivers.

b) Tuner units (not the LNB) for satellite signal reception.

c) Frequency modulation audio receivers and PC tuner cards.

d) Frequency modulation car radios.

e) Applicable to EUTs with RF modulator output ports (for example DVD equipment, video recorders, camcorders and decoders etc.) designed to connect to TV broadcast receiver tuner ports.

Testing is required at only one EUT supply voltage and frequency.

The term 'other' refers to all emissions other than the fundamental and the harmonics of the local oscillator.

The test shall be performed with the device operating at each reception channel.

The test shall cover the entire frequency range.

#### The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz 💉 🔶

#### Page 22 of 74 Report No.: STR221018001012E

#### 2.1.3 TEST PROCEDURE

2.1.4 TEST SETUP

**NTEK** 北测

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

### Vertical Reference Ground Plane EUT BOCM BOCM Horizontal Reference Ground Plane Horizontal Reference Ground Plane

#### Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 2.1.5 EUT OPERATING CONDITIONS

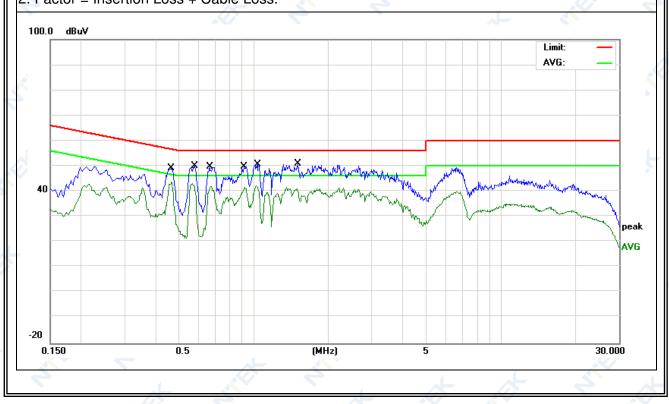
The EUT tested system was configured as the statements of 2.2 Unless otherwise a special operating condition is specified in the follows during the testing.

Page 23 of 74 Report No.: STR221018001012E

#### 2.1.6 TEST RESULTS

EUT:	Smart phone		Model Nan	ne:	BV9200	
Temperature:	<b>24.7</b> ℃	4	Relative H	Relative Humidity: 53%		
Pressure:	1010hPa		Phase:		L	
Test Voltage:	Test Voltage: DC 5V from Adapter AC 230V/50Hz		Test Mode:		Mode 1	
		1	* 5	- L		
Frequency	Meter Reading	Factor	Emission Level	Limit	s Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµ\	/) (dB)	neillain
0.4620	39.48	9.66	49.14	56.6	6 -7.52	QP
0.4620	33.96	9.66	43.62	46.6	6 -3.04	AVG
0.5780	40.24	9.67	49.91	56.0	0 -6.09	QP
0.5780	33.13	9.67	42.80	46.0	0 -3.20	AVG
0.6620	40.21	9.67	49.88	56.00	0 -6.12	QP
0.6620	32.19	9.67	41.86	46.0	0 -4.14	AVG
0.9100	40.13	9.68	49.81	56.0	0 -6.19	QP
0.9100	32.09	9.68	41.77	46.0	0 -4.23	AVG
1.0380	41.09	9.68	50.77	56.0	0 5.23	QP
1.0380	32.59	9.68	42.27	46.0	0 -3.73	AVG
1.5060	41.18	9.67	50.85	56.0	0 -5.15	QP
1.5060	31.83	9.67	41.50	46.0	0 -4.50	AVG

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



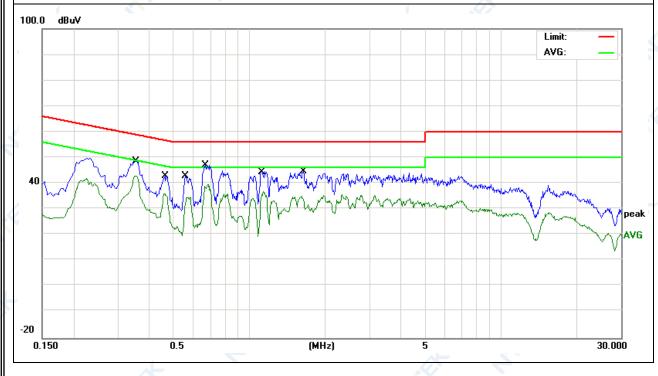
N2017.03.22.0322.V.1.0

Report No.: STR221018001012E Page 24 of 74

EUT:	Smart phone		Model Nar	ne:	BV9200	
Temperature:	21.1℃	Relative H	Relative Humidity: 50%			
Pressure:	1010hPa		Phase:		N	
Test Voltage:	DC 5V from Adap AC 230V/50Hz	Test Mode	Test Mode: Mode 1			
		× _ `		_		* *
Frequency	Meter Reading	Factor	Emission Level	Limit	s Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµ\	/) (dB)	nemark
0.3539	38.96	9.66	48.62	58.8	7 -10.25	QP
0.3539	33.20	9.66	42.86	48.8	7 -6.01	AVG
0.4620	33.10	9.66	42.76	56.6	6 -13.90	QP
0.4620	26.29	9.66	35.95	46.6	6 -10.71	AVG
0.5580	33.30	9.67	42.97	56.0	0 -13.03	QP
0.5580	25.00	9.67	34.67	46.0	0 -11.33	AVG
0.6700	37.27	9.67	46.94	56.0	0 -9.06	QP
0.6700	30.02	9.67	39.69	46.0	0 -6.31	AVG
1.1379	35.05	9.68	44.73	56.0	0 -11.27	QP
1.1379	27.04	9.68	36.72	46.0	0 -9.28	AVG
1.6419	34.90	9.67	44.57	56.0	0 -11.43	QP
1.6419	25.37	9.67	35.04	46.0	0 -10.96	AVG

#### Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



Note: The test modes were carried out for all operation modes. The worst test mode for test data was showed in the report.

Page 25 of 74 Report No.: STR221018001012E

#### 2.2 RADIATED EMISSION MEASUREMENT

#### 2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

#### Table A.2 – Requirements for radiated emissions at frequencies up to 1 GHz for Class A equipment

Table clause	Frequency range	Measurement		Class A limits dB(µV/m)
clause	MHz	Distance m	Detector type/ bandwidth	OATS/SAC (see Table A.1)
A2.1	30 – 230	10		40
	230 – 1 000	10	Quasi Peak /	47
A2.2	30 – 230	<u> </u>	120 kHz	50
	230 – 1 000	3		57

Apply only A2.1 or A2.2 across the entire frequency range.

#### Table A.4 – Requirements for radiated emissions at frequencies up to 1 GHz for Class B equipment

Table clause	Frequency range	Measurement		Class B limits dB(µV/m)
ciuuse	MHz	Distance m	Detector type/ bandwidth	OATS/SAC (see Table A.1)
A4.1	30 – 230	10		30
	230 – 1 000	10	Quasi Peak /	37
A4.2	30 – 230	0	120 kHz	40
	230 – 1 000	3	-	47

Apply only table clause A4.1 or A4.2 across the entire frequency range.

#### Table A.6 – Requirements for radiated emissions from FM receivers

Table	Frequency range	Measurement		Class B lim	it dB(μV/m)	
clause	MHz	Distance	Detector type/	Fundamental	Harmonics	
		m bai		OATS/SAC (see Table A.1)	OATS/SAC (see Table A.1)	
A6.1	30 – 230				42	
	230 – 300	10		50	42	
	300 – 1 000		Quasi peak/		46	
A6.2	30 – 230		120 kHz		52	
	230 – 300	3		60	52	
	300 – 1 000				56	

Apply only A.6.1 or A.6.2 across the entire frequency range.

These relaxed limits apply only to emissions at the fundamental and harmonic frequencies of the local oscillator. Signals at all other frequencies shall be compliant with the limits given in Table A.4.

#### 2.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

### Table A.3 – Requirements for radiated emissions at frequencies above 1 GHz for Class A equipment

Table clause	Frequency range	Me	easurement	Class A limits dB(µV/m)
MHz		Distance Detector type/ m bandwidth		FSOATS (see Table A.1)
A3.1	1 000 – 3 000		Average /	56
	3 000 - 6 000	2	1 MHz	60
A3.2	1 000 – 3 000	3	Peak /	76
	3 000 - 6 000		1 MHz	80

Apply A3.1 and A3.2 across the frequency range from 1 000 MHz to the highest required frequency of measurement derived from Table 1.

### Table A.5 – Requirements for radiated emissions at frequencies above 1 GHz for Class B equipment

Table clause	Frequency range	Measurement		Class B limits dB(µV/m)
	MHz	Distance m	Detector type/ bandwidth	FSOATS (see Table A.1)
A5.1	1 000 – 3 000		Average/	50
	3 000 – 6 000	3	1 MHz	54
A5.2	1 000 – 3 000	5	Peak/	70
	3 000 – 6 000		1 MHz	74

Apply A5.1 and A5.2 across the frequency range from 1 000 MHz to the highest required frequency of measurement derived from Table 1.

#### Notes:

- (1) The limit for radiated test was performed according to as following: CISPR 32.
- (2) The tighter limit applies at the band edges.
- (3) Emission level ( $dB\mu V/m$ )=20log Emission level (uV/m).

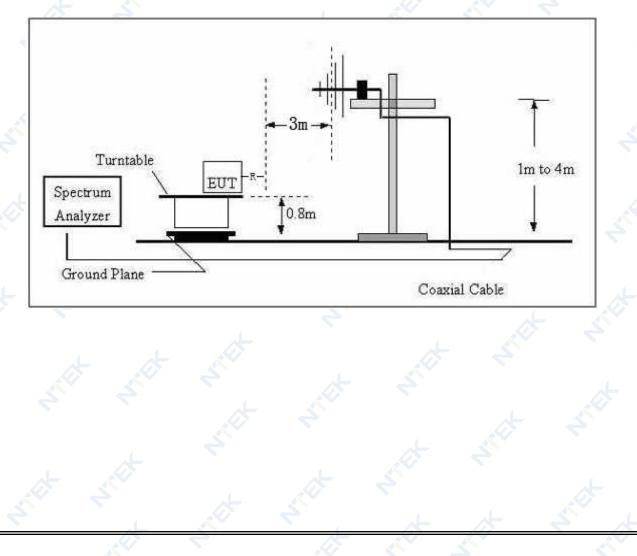
Page 27 of 74 Report No.: STR221018001012E

#### 2.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

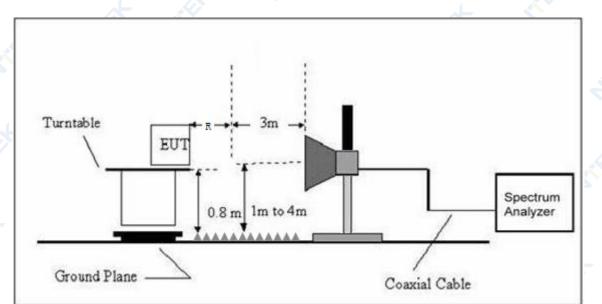
#### 2.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



Page 28 of 74 Report No.: STR221018001012E

(B) Radiated Emission Test Set-Up Frequency Above 1GHz



#### 2.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.2** Unless otherwise a special operating condition is specified in the follows during the testing.



Page 29 of 74 Report No.: STR221018001012E

#### 2.2.6 TEST RESULTS (30-1000MHz)

EUT:	Smart phone			Model Nar			200	
emperature:	<b>23.9</b> ℃		X	Relative H	umidity:	52%		
Pressure:	1010 hPa			Polarization:		Vertical		
Test Power: DC 5V from Adapter AC 230V/50Hz			Test Mode:		Mode 1			
					2	[		
Frequency	Meter Reading	Factor	>	ion Level	Limit		Margin	Remark
(MHz)	(dBµV)	(dB)		βμV/m)	(dBµV		(dB)	
32.9791	10.11	24.48		4.59	40.0		-5.41	QP
45.2166	15.38	17.66	3	3.04	40.0	0	-6.96	QP
66.0342	16.25	13.02	2	9.27	40.0	0	-10.73	QP
173.8135	10.74	17.27	2	8.01	40.0	0	-11.99	QP
807.4290	7.37	29.55	3	6.92	47.0	0	-10.08	QP
979.1803	6.63	31.45	3	8.08	47.0	0	-8.92	QP
Remark: . Emission Le 72.0 dBuV/m	evel= Meter Readi	ng+ Facto	or, Margi	in= Emissic	on Level-	Limit	Limit: Margin:	
. Emission Le	evel= Meter Readi	ng+ Facto	or, Margi	in= Emissic	on Level-	Limit	Limit:	
. Emission Le	evel= Meter Readi	ng+ Facto	or, Margi	in= Emissic		Limit	Limit:	
. Emission Le	evel= Meter Readi	ng+ Facto	or, Margi	in= Emissic	4 5 4 ×		Limit: Margin:	6
Emission Le	C				4 5 4 ×		Limit: Margin:	6
. Emission Le	C				4 5 4 ×		Limit:	6
. Emission Le					4 5 4 ×		Limit: Margin:	6
. Emission Le	C				4 5 4 ×		Limit: Margin:	6
. Emission Le	C				4 5 4 ×		Limit: Margin:	6
. Emission Le	C						Limit: Margin:	6
. Emission Le						hhlum		S

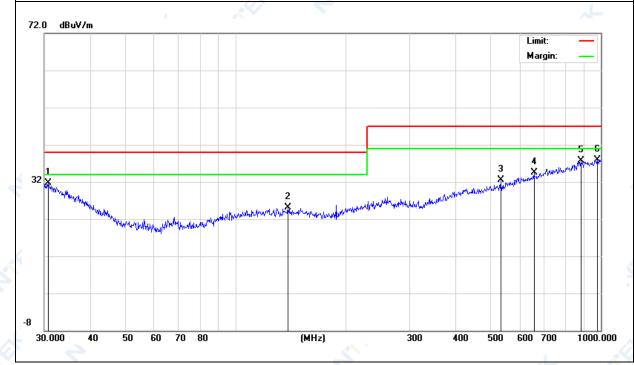
Page 30 of 74 Report No.: STR221018001012E

~			
EUT:	Smart phone	Model Name:	BV9200
Temperature:	24.5℃	Relative Humidity:	51%
Pressure:	1010 hPa	Polarization:	Horizontal
Test Power:	DC 5V from Adapter AC 230V/50Hz	Test Mode:	Mode 1

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Domork
4	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Remark
	30.7454	5.82	25.87	31.69	40.00	-8.31	QP
ĺ	139.3613	6.35	18.74	25.09	40.00	-14.91	QP
	531.9634	7.41	25.14	32.55	47.00	-14.45	QP
0	656.5300	7.28	27.19	34.47	47.00	-12.53	QP
ĺ	884.5028	7.30	30.36	37.66	47.00	-9.34	QP
	979.1803	6.40	31.45	37.85	47.00	-9.15	QP
ľ						$\overline{\nabla}$	

Remark:

1. Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.



Note: The test modes were carried out for all operation modes. The worst test mode for test data was showed in the report.

#### 2.2.7 TEST RESULTS(1000-6000MHz)

EUT:	Smart phone	Model Name:	BV9200		
Temperature:	<b>24.5</b> ℃	Relative Humidity:	51%		
Pressure:	1010 hPa	Test Mode:	Mode 1		
Test Power:	DC 5V from Adapter AC 230V/50Hz				2

4							
Polar	Frequency	Meter Reading (dBµV/m)	Factor (dB)	Emission Level	Limits	Margin (dB)	Remark
(H/V)	(MHz)			(dBµV/m)	(dBµV/m)		
V	2075.000	37.86	11.02	48.88	70.00	-21.12	peak
v	2075.000	24.22	11.02	35.24	50.00	-14.76	AVG
V	2775.000	37.90	11.59	49.49	70.00	-20.51	peak
V	2775.000	24.61	11.59	36.20	50.00	-13.80	AVG
V	3812.500	36.05	15.39	51.44	74.00	-22.56	peak
V	3812.500	23.51	15.39	38.90	54.00	-15.10	AVG
V	4237.500	38.03	17.64	55.67	74.00	-18.33	peak
V	4237.500	24.69	17.64	42.33	54.00	-11.67	AVG
V	4812.500	36.03	19.78	55.81	74.00	-18.19	peak
V	4812.500	22.74	19.78	42.52	54.00	-11.48	AVG
V _	5700.000	35.79	19.51	55.30	74.00	-18.70	peak
V	5700.000	22.59	19.51	42.10	54.00	-11.90	AVG
Н	2162. <mark>5</mark> 00	38.48	11.23	49.71	70.00	-20.29	peak
Н	2162.500	24.40	11.23	35.63	50.00	-14.37	AVG
Н	2862.500	37.80	11.72	49.52	70.00	-20.48	peak
Н	2862.500	24.17	11.72	35.89	50.00	-14.11	AVG
Н	3662.500	36.91	14.40	51.31	74.00	-22.69	peak
Н	3662.500	22.40	14.40	36.80	54.00	-17.20	AVG
Н	4287.500	38.14	17.77	55.91	74.00	-18.09	peak
Н	4287.500	24.54	17.77	42.31	54.00	-11.69	AVG
н	4850.000	35.54	19.95	55.49	74.00	-18.51	peak
Н	4850.000	22.55	19.95	42.50	54.00	-11.50	AVG
Н	5400.000	36.15	18.85	55.00	74.00	-19.00	peak
Н	5400.000	23.05	18.85	41.90	54.00	-12.10	AVG

Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit

Note: The test modes were carried out for all operation modes. The worst test mode for test data was showed in the report.

Page 32 of 74 Report No.: STR221018001012E

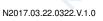
#### 2.3 HARMONICS CURRENT

#### 2.3.1LIMITS OF HARMONICS CURRENT

Table 1 – Limits for Class A equipment

Harmonic order (n)	Maximum permissible harmonic current (A)		
Odd ł	narmonics		
3	2.3		
5	1.14		
7	0.77		
9	0.4		
11 🔶	0.33		
13	0.21		
15≤n≤39	0.15*(15/n)		
Even	harmonics		
2	1.08		
4	0.43		
6	0.30		
8≪n≪40	0.23*(8/n)		

Note: Reference standard of the table above: EN61000-3-2.



Page 33 of 74 Report No.: STR221018001012E

#### 3.3.2 TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

b. The classification of EUT is according to section 5 of EN 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

Class D: Equipment having a specified power less than or equal to 600W of the following types: Personal computers and personal computer monitors and television receivers.

c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

#### 3.3.3 EUT OPERATING CONDITIONS

3.3.4 TEST SETUP

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

# Voltage Supply To EUT Power Source EUT Non-Metallic Table

N2017.03.22.0322.V.1.0

Page 34 of 74 Report No.: STR221018001012E

#### 3.3.5 TEST RESULTS

EUT:	Smart phone	Model Name:	BV9200
Temperature:	<b>22</b> °C	Relative Humidity:	53%
Pressure:	1012hPa	Test duration:	150s
Classification:	Class A	Test Power:	N/A
Test Mode:	N/A		x x

Note: The active input power of the EUT is less than 75 W. No limits apply for equipment with an active input power up to and including 75W.

#### 2.4 VOLTAGE FLUCTUATION AND FLICKERS

#### 2.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

	Test items	Limits(EN61000-3-3)	Descriptions
	P <sub>st</sub>	≤1.0, T <sub>p</sub> =10min	short-term flicker indicator
	Pit	<0.65, T <sub>p</sub> =2h	long-term flicker indicator
	d <sub>c</sub>	≤3.3%	relative steady-state voltage change
	d <sub>max</sub>	≪4%(or 6% <sub>Note(1)</sub> , 7% <sub>Note(2)</sub> )	maximum relative voltage change:
$d_{(t)}$		≤3.3%, more than 500ms	relative voltage change characteristic

#### Note:

- 1. 6 % for equipment which is:
  - a. switched manually, or

b. switched automatically more frequently than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds), or manual restart, after a power supply interruption.

#### 2. 7 % for equipment which is

a. attended whilst in use (for example: hair dryers, vacuum cleaners, kitchen equipment such as mixers, garden equipment such as lawn mowers, portable tools such as electric drills), or b. switched on automatically, or is intended to be switched on manually, no more than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds) or manual restart, after a power supply interruption.

#### 3.4.2 TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:

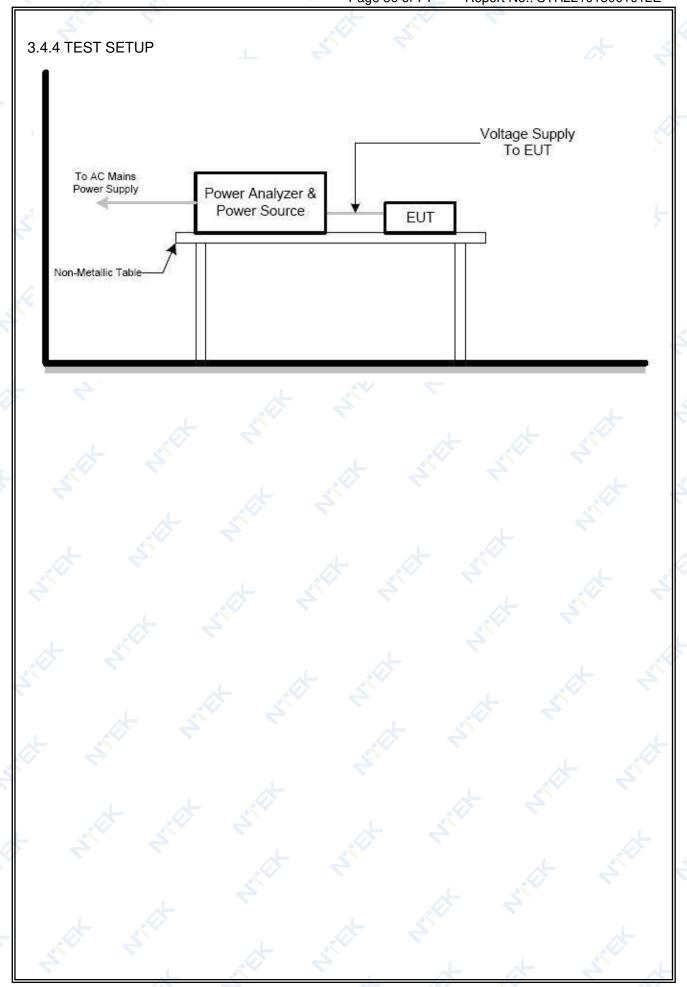
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

#### 3.4.3 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

Page 36 of 74 Report No.: STR221018001012E

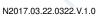


Page 37 of 74 Report No.: STR221018001012E

#### 3.4.5 TEST RESULTS

EUT:	Smart phone		Model Name:	BV9200
Temperature:	<b>22.2</b> ℃		Relative Humidity:	52%
Pressure:	1010 hPa	A.C.T.	Test Power:	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1	7		A A

	EUT values	Limit	Result
Pst	0.028	1.00	PASS
Plt	0.028	0.65	PASS
dc [%]	0.000	3.30	PASS
dmax [%]	0.069	4.00	PASS
Tmax [s]	0.000	0.50	PASS



Page 38 of 74 Report No.: STR221018001012E

#### 3. EMC IMMUNITY TEST

#### 3.1 GENERAL PERFORMANCE CRITERIA

#### 3.1.1 PERFORMANCE CRITERIA

According to EN 55035 standard, the general performance criteria as following:

	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.
Criterion A	The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criterion B	After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.
Criterion C	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

According to EN 301 489-3 standard, the general performance criteria as following:

Criteria	During the test	After the test						
	Operate as intended	Operate as intended						
	No loss of function	No loss of function						
А	No unintentional responses	No degradation of performance						
		No loss of stored data or user programmable						
		functions						
	<u> </u>	Operate as intended						
	May about loss of function	Lost function(s) shall be self-recoverable						
В	May show loss of function No unintentional responses	No degradation of performance No loss of stored data or user programmable						
	No unintentional responses							
		functions						

### NTEK 北测

Page 39 of 74 Report No.: STR221018001012E

Criteria	During the test	After the test
×	Shall operate as intended (see note 1).	Shall operate as intended.
	Shall be no loss of function.	Shall be no degradation of performance
<u> </u>	Shall be no unintentional	(see note 3).
A	transmissions	Shall be no loss of function.
		Shall be no loss of stored data or user
		programmable functions
	May show loss of function (one or	Functions shall be self-recoverable.
	more).	Shall operate as intended after recovering.
в	May show degradation of performance	Inded (see note 1).Shall operate as intended.Inction.Shall be no degradation of performanceIonal(see note 3).IonalShall be no loss of function.IonalShall be no loss of stored data or userIonalProgrammable functionsIction (one orFunctions shall be self-recoverable.IonalShall be no degradation of performanceIonalShall be no degradation of performanceIonalShall be no loss of stored data or userIonalShall be no degradation of performanceIonalShall be no loss of stored data or userIonalProgrammable functions.IonalShall be no loss of stored data or userIonalShall operate as intended after recoveIonalShall operate as intended after recoveIonalShall be no degradatio
D	(see note 2).	(see note 3).
	Shall be no unintentional	Shall be no loss of stored data or user
	transmissions.	programmable functions.
		Functions shall be recoverable by the
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	operator.
C <	May be loss of function (one or more)	Shall operate as intended after recovering.
		Shall be no degradation of performance
		(see note 3).

NOTE 1: Operate as intended during the test allows a level of degradation not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended. NOTE 2: Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 3: No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

### NTEK 北测

Page 40 of 74 Report No.: STR221018001012E

According to EN 301 489-19 standard, the general performance criteria as following:

If the EUT is of a non specialized nature or the EUT is combined with an ancillary equipment, the test modulation, test arrangements, etc. as required in clause 4 shall apply.

The EUT, for all immunity tests according to the present document, except the spot frequency test of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2), shall be assessed for:

• the storage of messages in the memory of the EUT at the start of the test;

- unintentional responses of the EUT during the test;
- the maintenance of the EUT memory assessed at the conclusion of the test;

• the ability to receive and store messages at the conclusion of the test.

For the spot frequency test of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2) the EUT shall be assessed by monitoring the accuracy of the call received alert signal.

Performance criteria for Continuous phenomena applied to ROMES and ROGNSS receivers (CR)

For the EUT, excluding spot frequency tests as part of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2):

- the general performance criteria set out in clause 6.1;
- during the test no false calls shall occur;

• at the conclusion of the test comprising the series of individual exposures the EUT shall operate as intended with no loss of functions or stored data (messages), as declared by the manufacturer.

For the spot frequency test as part of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2) the EUT shall be assessed by monitoring the accuracy of the call received alert signal.

### Performance criteria for Transient phenomena applied to ROMES and ROGNSS receivers (TR)

For the EUT:

- the general performance criteria set out in clause 6.1;
- during the test no false calls shall occur;
- at the conclusion of the test comprising the series of individual exposures, the EUT shall operate as intended with no loss of function and/or stored data (messages), as declared by the manufacturer.

#### Report No.: STR221018001012E Page 41 of 74

### Special conditions for EMC immunity tests Table 2: Special conditions for EMC immunity tests

Reference to clauses in ETSI EN 301 489-1 [1]	Special product-related conditions, additional to or modifying the test conditions in ETSI EN 301 489-1 [1], clause 9
9.1 Test configuration; Test methods and levels for immunity tests	The message memory shall be loaded with recognizable messages. The EUT shall operate in stand-by mode of operation, except for the spot frequency test as part of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2) where repetitive calls shall be coupled to the input of the receiver. • for the immunity tests of ancillary equipment, without a separate pass/fail criteria, an EUT coupled to the ancillary equipment shall be used to judge whether the ancillary equipment passes or fails.
9.2.2 Test method; Radio frequency electromagnetic field	Spot frequency test: A spot frequency test shall additionally be performed at:

### NTEK 北测

#### Page 42 of 74 Report No.: STR221018001012E

#### PERFORMANCE FOR TT

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply. Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

#### PERFORMANCE FOR TR

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply. Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

#### PERFORMANCE FOR CT

The performance criteria A shall apply. Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an Acknowledgement (ACK) or Not Acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

#### PERFORMANCE FOR CR

The performance criteria A shall apply. Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

According to EN 301 489-52 standard, the general performance criteria as following:

**GSM and DCS Performance Criteria** Please refer to the standard ETSI EN 301 489-52 V1.2.1 clause 6.1.

**CDMA Direct Spread (UTRA and E-UTRA) Performance Criteria** Please refer to the standard ETSI EN 301 489-52 V1.2.1 clause 6.2.

#### 3.2 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **2.2** Unless otherwise a special operating condition is specified in the follows during the testing.

Page 43 of 74 Report No.: STR221018001012E

#### 3.3 ESD TESTING

#### 3.3.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	В
Discharge Voltage:	Air Discharge: 2kV/4kV/8kV
	Contact Discharge: 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point
	Contact Discharge: min. 200 times in total
Discharge Mode:	A/C Discharge
Discharge Period:	1 second minimum

#### 3.3.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

- a. Indirect application of the discharge:
  - Vertical Coupling Plane (VCP):

At least 10 single discharges (in the most sensitive polarity) shall be applied to the centre of one vertical edge of the coupling plane. The coupling plane, of dimensions 0,5 m  $\times$  0,5 m, is placed parallel to, and positioned at a distance of 0,1 m from, the EUT.

Discharges shall be applied to the coupling plane, with sufficient different positions such that the four faces of the EUT are completely illuminated. One VCP position is considered to illuminate 0,5 m  $\times$  0,5 m area of the EUT surface.

#### Horizontal Coupling Plane (HCP):

Discharge to the HCP shall be made horizontally to the edge of the HCP.

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the centre point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

The discharge electrode shall be in contact with the edge of the HCP before the discharge switch is operated

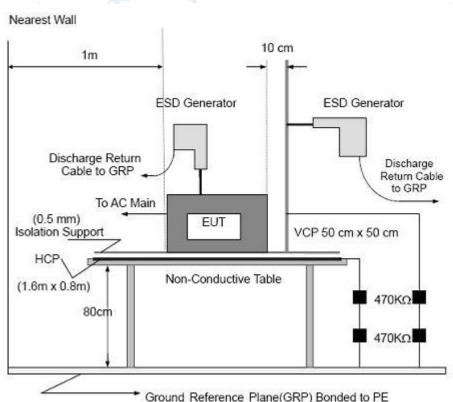
b. Direct application of discharges to the EUT

The test shall be performed with single discharges. On each pre-selected point at least 10 single discharges (in the most sensitive polarity) shall be applied.

For the time interval between successive single discharges an initial value of 1 s is recommended. Longer intervals may be necessary to determine whether a system failure has occurred.

Page 44 of 74 Report No.: STR221018001012E

#### 3.3.3 TEST SETUP



#### Note:

#### TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

#### FLOOR-STANDING EQUIPMENT

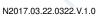
The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

Page 45 of 74 Report No.: STR221018001012E

#### 3.3.4 TEST RESULTS

EUT:	Smart phone	Model Name:	BV9200
Temperature:	<b>22°</b> C	Relative Humidity:	53%
Pressure:	1010 hPa		DC 5V from Adapter AC 230V/50Hz / DC 5V from PC
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12	4	X X

×	Mode	Contact D	isch	arge	ə (Ir	dire						
	Test level(kV)	Test Point	2	2	2	4		6	Criterion	Result		
	Test Location		+	-	+	-	+	-				
	~	Front	Ρ	Ρ	Ρ	Ρ						
	HCP	Rear	Ρ	Ρ	Ρ	Ρ				at at		
		Left	Ρ	Ρ	Ρ	Ρ			×			
		Right	Ρ	Ρ	Ρ	Ρ	大		Б	Complies		
	4	Front	Ρ	Ρ	Ρ	P				Complies		
	VCP	Rear	Ρ	Ρ	Ρ	Ρ				, A		
	VCF	🖉 Left 🦷	Ρ	Ρ	Ρ	Ρ			At A			
		Right	Ρ	Ρ	Ρ	Ρ						

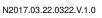


Page 46 of 74 Report No.: STR221018001012E

### TEST RESULT

Mode 5/6/7/8/9/10/11	
----------------------	--

	/0/	3/ I																		·	
Mode		A	ir [	Dis	cha	arg	е		(	Cor	ntad	ct D	Disc	cha	rge	9	BT / WIFI / GSM /				
Test level(kV)	2	2	4	ŀ	ε	3	1	5	2	2 4 6 8		3	WCDMA / LTE /	GPS /WPT	Crite	Result					
Test Location	+	-	+	-	+	I	+	-	+	-	+	-	+	-	+	I	NFC/ Observati on	Obser vation	rion		
A1	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ					1	ХT			1.		1				
A2	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	k			۸.									X		
A3	Ρ	Р	Ρ	Ρ	Ρ	Ρ															
A4	Р	Ρ	Ρ	Ρ	Ρ	Ρ											~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
A5	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ					$\mathbf{i}$			Λ.			TT,TR	TR	В	Complies	
C1									Ρ	Ρ	Ρ	Ρ					A-				
C2				Α.					Ρ	Ρ	Ρ	Ρ			ł			5		2	
C3									Ρ	Ρ	Ρ	Ρ		1			1				
C4									Ρ	Ρ	Ρ	Ρ	~							X	



#### Page 47 of 74 Report No.: STR221018001012E

#### Mode 1/2/3/4

1/2	/3/4													Ť						
	Mode		A	ir I	Dis	cha	arg	е		(	Cor	ntad	ct D	Disc	cha	rge	Ű			
	Test level(kV)	2	2	2	1	8	3	1	5	2	2	2	1	6	5	8	3	Crite rion	Result	
	Test Location	+	-	+	-	+	1	+	-	+	-	+	-	+	-	+	1			
	A1	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ											Ŷ	5	
	A2	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ						).				$\mathbf{N}$			
	A3	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ						1							
	A4	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ											X		
	A5	Ρ	Р	Ρ	Ρ	Ρ	Ρ										Ś	В	Complies	
	C1									Ρ	Ρ	Ρ	Ρ							
	C2						A.			Ρ	Ρ	Ρ	Ρ						At 1	
	C3									Ρ	Ρ	Ρ	Ρ				$\overline{\mathbf{S}}$		<u> </u>	
	C4									Ρ	Ρ	Ρ	Ρ			S.				

#### Note:

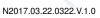
1) +/- denotes the Positive/Negative polarity of the output voltage.

2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.

3) There was not any unintentional transmission in standby mode.

Page 48 of 74 Report No.: STR221018001012E

# 3.3.5 PHOTO(S) SHOWN THE LOCATION(S) OF ESD EVALUATED Photo 1 A2 C2 4 01 01 08 08 A1 2 9. Mi 8 04 94 09 05 8 3 Photo 2 A4 C<sub>3</sub> Mit B B R D B OF OF OF 3



Page 49 of 74 Report No.: STR221018001012E

#### 3.4 RS TESTING

#### 3.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-3
Required Performance	A
Frequency Range:	According to EN 301 489-1:
	80 MHz - 6000 MHz ;
	According to EN 55035:
	80 MHz to 1000 MHz
	1800 MHz
4	2600 MHz
	3500 MHz
	5000 MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m 🗡 🖉 🍣
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

#### 3.4.2 TEST PROCEDURE

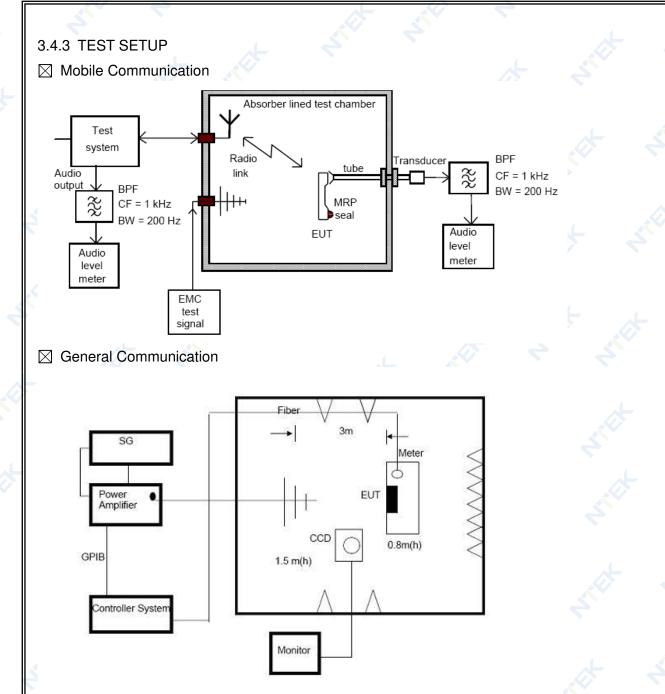
The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

- a. The field strength level was 3V/m.
- b. The frequency range is swept from 80 MHz to 6000 MHz, 1800 MHz, 2600 MHz, 3500 MHz, 5000 MHz with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5 x 10<sup>-3</sup> decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- c. Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
- d. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- e. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Page 50 of 74 Report No.: STR221018001012E



#### Note:

For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

#### FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

Page 51 of 74 Report No.: STR221018001012E

#### 3.4.4 TEST RESULTS

EUT:	Smart phone	Model Name:	BV9200
Temperature:	<b>23</b> °C	Relative Humidity:	57%
Pressure:	1010 hPa		DC 5V from Adapter AC 230V/50Hz / DC 5V from PC
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12		* * `

#### TEST RESULT

#### LTE FDD B1 / B3 / B7 / B8 / B20 / B28 / B40 Data Link

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Observation	Results
~ ~		2 1/(m (rma)	Front		P
80~1000	H/V	3 V/m (rms) AM Modulated	Rear	OT OD	
1000-6000			Left	CT,CR	
		1000Hz, 80%	Right	· · · ·	

#### Note:

The exclusion band has not been tested in 80MHz~6GHz.
 For channelized equipment the exclusion band shall be calculated by using the following formulae:

For the lower edge for the exclusion band:

EXband(lower) = BandRX(lower) - nChWRX

and for the upper edge of the exclusion band:

EXband(upper) = BandRX(upper) + nChWRX

- Where n = number of channel widths required for exclusion band.
- 2. In the data transfer mode, the performance criteria shall be that the throughput shall be  $\geq$  95 % of the maximum throughput of the reference measurement channel

Page 52 of 74 Report No.: STR221018001012E

GSM 900 / 1800 / WCDMA 2100 / 900 Uplink and Downlink									
Frequency Range	RF Field	R.F.	A -insuth	Observation	Perform.	Deculto			
(MHz)	Position	Field Strength	Azimuth	Observation	Criteria	Results			
Str.			Front						
80~1000 1000-6000	н / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Rear	OT OD	A	P			
			Left	CT,CR		P			
			Right						

#### Note:

1. The exclusion band has not been tested in 80MHz~6GHz.

For channelized equipment the exclusion band shall be calculated by using the following formulae:

For the lower edge for the exclusion band:

EXband(lower) = BandRX(lower) - nChWRX

and for the upper edge of the exclusion band:

EXband(upper) = BandRX(upper) + nChWRX

Where n = number of channel widths required for exclusion band.

2: "A" stand for: the uplink/downlink speech output level shall be at least 35 dB less than the previously recorded reference levels, when measured through an audio band pass filter of width 200 Hz, centred on 1 kHz (audio breakthrough check). The RXQUAL of the downlink is not exceeding the value of three, measured during each individual exposure in the test sequence. Or During and after the test, the apparatus continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level.

Page 53 of 74 Report No.: STR221018001012E

#### GPRS / EGPRS / HSDPA / HSUPA Uplink and Downlink

							_
Frequency	RF Field	R.F.	Azimuth	Observation	Perform.	Results	
Range (MHz)	Position	Field Strength	Azimum	Observation	Criteria	riesuits	
<u> </u>			Front				
80~1000 1000-6000	H/V	3 V/m (rms) AM Modulated	Rear	CT,CR	•	Л	
			Left	CI,CR	A _	P	
x 3		1000Hz, 80%	Right	<u>a</u> 1			

#### Note:

1. The exclusion band has not been tested in 80MHz~6GHz.

For channelized equipment the exclusion band shall be calculated by using the following formulae:

For the lower edge for the exclusion band:

EXband(lower) = BandRX(lower) - nChWRX

and for the upper edge of the exclusion band:

EXband(upper) = BandRX(upper) + nChWRX

Where n = number of channel widths required for exclusion band.

2. During the test, the Maximum Bit Error Ratio was less than 1×10<sup>-3</sup>.

3. During the test, the Maximum Block Error Ratio was less than 1×10<sup>-2</sup>.

#### BT / WIFI/ NFC link

Frequency	RF Field	R.F.	Azimuth	Observation	Perform.	Deculto	
Range (MHz)	Position	Field Strength	Azimum	Observation	Criteria	Results	
5			Front	<u> </u>	A		
80~1000	H/V	3 V/m (rms) AM Modulated 1000Hz, 80%	Rear			P	
1000-6000			Left	CT,CR			
		1000112, 00 /8	Right	Ť ,			

Note:

- 1. The exclusion band has not been tested in 80MHz~6GHz.
- The exclusion band for immunity testing of equipment operating in the 2,4 GHz band shall be: lower limit of exclusion band = lowest allocated band edge frequency -120 MHz, i.e. 2 280 MHz; • upper limit of exclusion band = highest allocated band edge frequency +120 MHz, i.e. 2 603,5MHz.
- 2. "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

Page 54 of 74 Report No.: STR221018001012E

GPS/WPT Receive	GPS/WPT Receiver Mode Link										
Frequency Range	RF Field	R.F.	Azimuth	Observation	Perform.	Results					
(MHz)	Position	Field Strength	Azimum	Observation	Criteria	nesuits					
L''V V		.L	Front								
80~1000 1000-6000	н/ V	3 V/m (rms) AM Modulated	Rear	CR	A	P					
		1000Hz, 80%	Left	Ch		F					
			Right	7		×					
80,104,136,			Front		Ŷ	25					
165,200,260,	5	3 V/m (rms)	Rear								
330,430,560,	H/V	Unmodulated		CR	Α	Р					
715 MHz ± 1,		200Hz, 100%	Left								
920 MHz ± 1		N.	Right								

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

#### REC / TF Playing /Data Transmission / FM Mode

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	
80~1000 1000~6000 1800 2600 3500 5000	H/V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front Rear Left Right	A	ster	

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions. There was not any unintentional transmission in standby mode.

Page 55 of 74 Report No.: STR221018001012E

#### 3.5 EFT/BURST TESTING

#### 3.5.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4
Required Performance	B
Test Voltage:	Power Line: 1 kV
	DC/Signal/ wired network Line: 0.5 KV
Polarity:	Positive & Negative
Impulse Frequency:	For xDSL wired network ports: 100 kHz
	For DC/AC ports: 5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

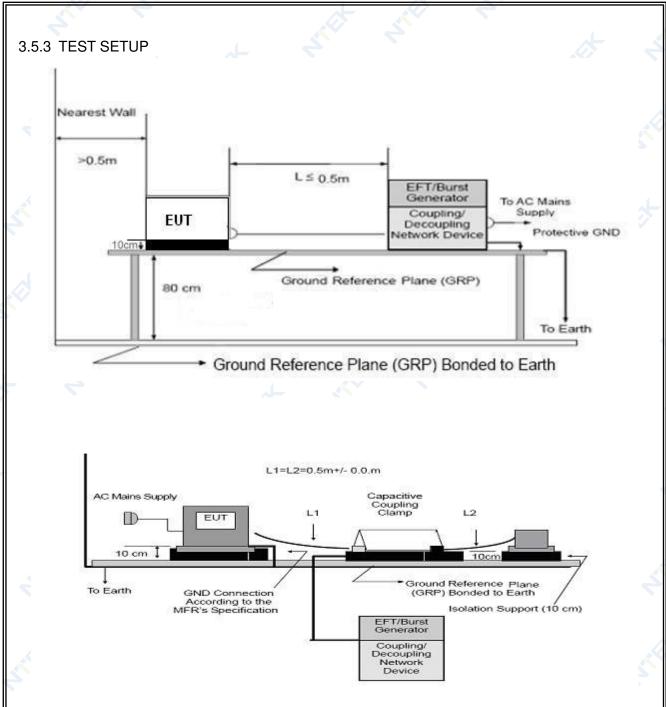
#### 3.5.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m\*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute
- d. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Page 56 of 74 Report No.: STR221018001012E



Note:

#### TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure. FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

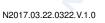
Page 57 of 74 Report No.: STR221018001012E

#### 3.5.4 TEST RESULTS

EUT:	Smart phone	Model Name:	BV9200
Temperature:	<b>22</b> °C	Relative Humidity:	53%
Pressure:	1010 hPa	LAST POWAR	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1/2/4/5/6/7/8/9/10/11/12		

#### TEST RESULT Mode 5/6/7/8/9/10/11

MOU	e 5/0/1/0/9/										4		
Cou	Coupling Line		.5	Tes	st lev 1	rel (kV)			1	BT / WIFI / GSM / WCDMA /	GPS/ WPT Observ	Criteri on	Result
		+	-	+	-	+	-	+	-	LTE/ NFC Observation	ation		
	L	Ρ	Р	Ρ	Ρ	V	4				Ŷ		Complies
	Ν	Ρ	Ρ	Ρ	Ρ					X X	9		Complies
	PE						X						
AC line	L+N	Ρ	Р	Ρ	Ρ							1	Complies
	L+PE			<b>\$</b>						TT,TR	TR	В	
	N+PE	V								* *			
	L+N+PE					7			5				
D	C Line		X										2
Sig	nal Line												



Page 58 of 74 Report No.: STR221018001012E

Mode 1/2/4	1				2						the second
				Т	est lev	vel (k					
Coupli	ing Line	0	.5		1		2		4	Criterion	Result
		+	-	+	-	+	-	+	-		
	<u>لل</u>	Р	Р	P	Р					<u>ل</u> ح	Complies
1	N	Р	Ρ	Р	Р			Y			Complies
	PE				3		5		7		6
AC line	L+N	Р	Р	Р	Р					1 1	Complies
	L+PE									В	
	N+PE								1		
	L+N+PE					7					-
DC	DC Line			2							
Signa	al Line 🔷 🗧						J			7	~

Note:

- 1)There was not any unintentional transmission in standby mode
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.

Page 59 of 74 Report No.: STR221018001012E

#### 3.6 SURGE TESTING

#### 3.6.1 TEST SPECIFICATION

IEC/EN 61000-4-5
B
Combination Wave
1.2 / 50 us Open Circuit Voltage
8 / 20 us Short Circuit Current
Power Line:0.5 kV, 1 kV, 2 kV
L-N, L-PE, N-PE
2 ohm between networks
12 ohm between network and ground
Positive / Negative
0 / 90 / 180 / 270
1 time / min. (maximum)
5 positive and 5 negative at selected points

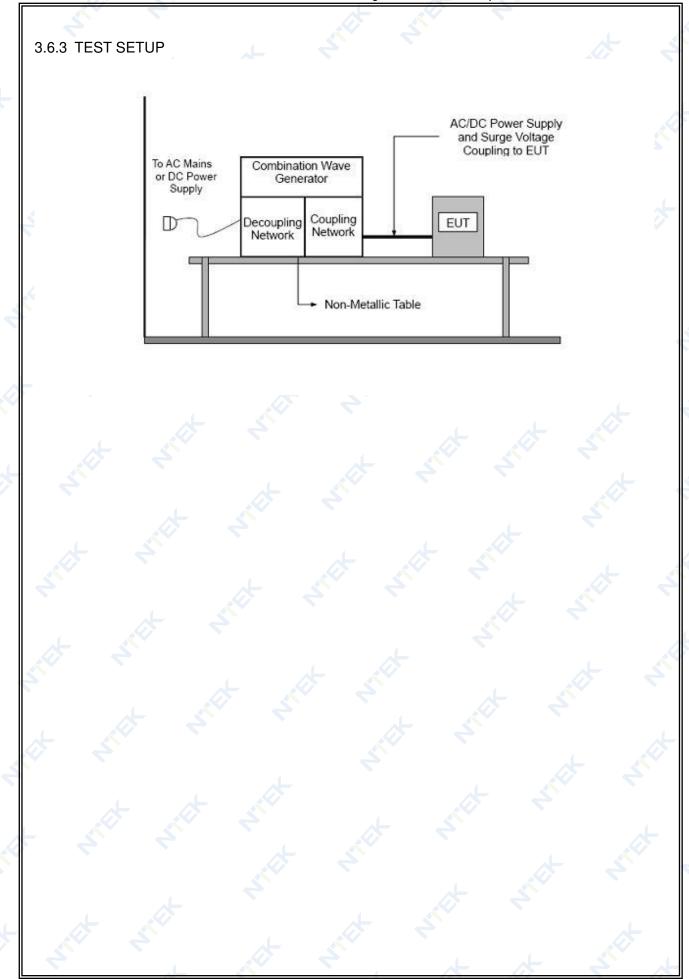
#### 3.6.2 TEST PROCEDURE

- a. For EUT power supply:
- The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).
- b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT: The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:

The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

d. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Page 60 of 74 Report No.: STR221018001012E



Page 61 of 74 Report No.: STR221018001012E

#### 3.6.4 TEST RESULTS

EUT:	Smart phone	Model Name:	BV9200
Temperature:	<b>22℃</b>	Relative Humidity:	53%
Pressure:	1010 hPa	LAST POWAR	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1/2/4/5/6/7/8/9/10/11/12		

### TEST RESULT

Mode	5/6/7/8/9/10/11	

						Te	est le	eve				BT / WIFI / GSM /			
	Coupling Line		0.5kV 1kV 2kV 4kV		WCDMA	WCDMA GPS	Critorian	Deput							
			Ine	+	-	+	-	+	-	+	-	/ LTE/ NFC Observati on	Observati on	Criterion	Result
			0°	Ρ	Р	Ρ	Ρ							•	
		L-N	90°	Ρ	Ρ	Ρ	Р						>		Complies
			180°	Р	Ρ	Ρ	Ρ							*	Complies
		X	270°	Р	Ρ	Ρ	Ρ						67 s		
												5 4	6		~
	AC									1.		тттр	тр	Р	
	line	L-PE		k		A.						TT,TR	TR	В	
			5									×			
													4		x 3
		N-PE							V					- 3	
		IN-PC			Λ.										
		Ê										×			
		DC Line	)											<u>í</u>	- 4
	S	ignal Liı	ne					S						1	

Page 62 of 74 Report No.: STR221018001012E

N	lode 1/2/4			L		~							
					Test level								
	Co	upling Line	e	0.5	kV	1	kV	2	kV	4 kV		Criterion	Result
				+	-	+	-	+	-	+	-		
		4	0°	Р	Р	Ρ	Р	V					み か
	4	L-N	90°	Ρ	Р	Ρ	Ρ					- 5	Complies
	¢.	4	180°	Ρ	Р	Ρ	Р					· · ·	Complied
			270°	Р	Р	Р	Р	7					
		*			7								4
	AC line	L-PE	7									В	
	2												
			X										
		÷ .								4	ţ.	~~``	S <sup>V</sup>
		N-PE											
							5	·					
			x-	5								.L	
	×	DC Line											~
	S	ignal Line							7			2	

Note:

- 1) There was not any unintentional transmission in standby mode
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.

### NTEK 北测

Page 63 of 74 Report No.: STR221018001012E

#### 3.7 INJECTION CURRENT TESTING

#### 3.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6
Required Performance	A
Frequency Range:	0.15 MHz - 80 MHz
Field Strength:	3 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

#### 3.7.2 TEST PROCEDURE

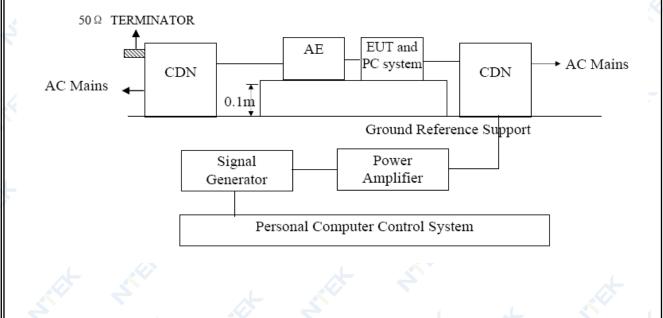
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m\*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The field strength level was 3V.
- b. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5 x 10<sup>-3</sup> decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 3.7.3 TEST SETUP

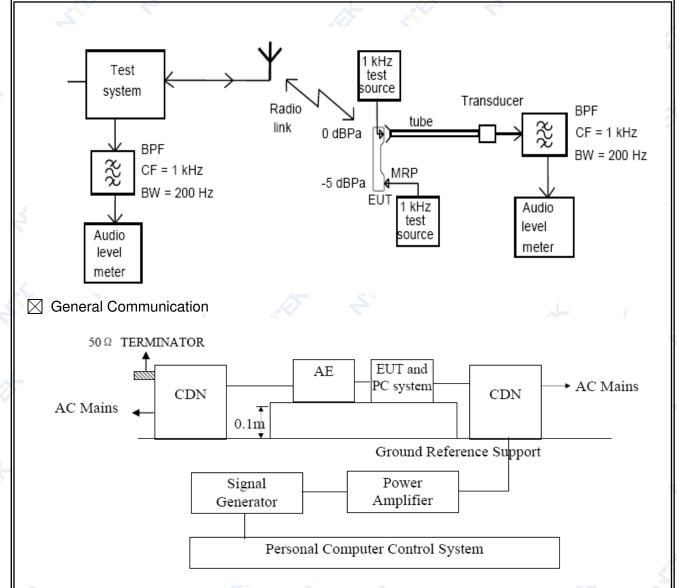
Mobile Communication



N2017.03.22.0322.V.1.0

# NTEK 北测

Page 64 of 74 Report No.: STR221018001012E



For the actual test configuration, please refer to the related Item –EUT Test Photos. NOTE:

#### FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

Page 65 of 74 Report No.: STR221018001012E

#### 3.7.4 TEST RESULTS

EUT:	Smart phone	Model Name:	BV9200
Temperature:	<b>22</b> ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode1/2/4/5/6/7/8/9/10/11/12		

#### TEST RESULT LTE FDD B1 / B3 / B7 / B8 / B20 / B28 / B40Link

-				
Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Observation	Results
Input / Output AC. Power Port	0.1580	3V(rms)	CT, CR	Р
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A
Signal Line	0.15 80		N/A	N/A

Note: In the data transfer mode, the performance criteria shall be that the throughput shall be  $\geq$  95 % of the maximum throughput of the reference measurement channel

#### GSM 900 / 1800 / WCDMA 2100 / 900 Uplink and Downlink

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Observation	Perform. Criteria	Results
Input / Output AC. Power Port	0.1580	3V(rms)	CT, CR	۲ ۲	Р
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A	N/A
Signal Line	0.15 80		N/A	N/A	▼ N/A

EUT is used for this calibration, the output of the audio source was adjusted to achieve a reference Level equivalent to a SPL of –5 dB Pa at 1 kHz at the Mouth Reference Point (MRP), the reading of the audio level meter, which was connected to the output of the communication tester, was recorded as a reference level. During the test, the uplink speech output level was monitored, it was confirmed to be at least 35 dB less than the previously- recorded reference level.



# NTEK 北测

Page 66 of 74 Report No.: STR221018001012E

GPRS / EGPRS / HSDPA / HSUPA Uplink and Downlink										
Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Observation	Perform. Criteria	Results					
Input / Output AC. Power Port	0.1580	3V(rms)	CT, CR	Α	Р					
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A	N/A					
Signal Line	0.15 80	t s	N/A	N/A	N/A					

Note: During the test, the Maximum Bit Error Ratio was less than  $1 \times 10^{-3}$ . During the test, the Maximum Block Error Ratio was less than  $1 \times 10^{-2}$ .

#### BT / WIFI / NFC link

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Observation	Perform. Criteria	Results
Input / Output AC. Power Port	0.1580	3V(rms)	CT, CR	Α	Р
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A	N/A
Signal Line	0.15 80	A	<b>N/A</b>	N/A	N/A

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

#### **GPS /WPT Receiver Mode Link**

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Perform. Criteria	Results
Input / Output AC. Power Port	0.15 80	3V(rms)	A-A	Р
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A
Signal Line	0.15 80	<b>C</b>	N/A	N/A

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

Page 67 of 74 Report No.: STR221018001012E

#### REC / TF Playing / FM Mode

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Perform. Criteria	Results	
AC. Power Port	0.1580	3V(rms)	A	Р	
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A	
Signal Line	0.15 80		N/A	N/A	<u>k</u>

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

Note:

- 1)There was not any unintentional transmission in standby mode
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.

#### 4.8 VOLTAGE INTERRUPTION/DIPS TESTING

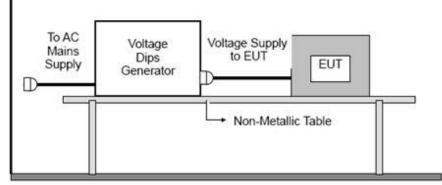
#### 4.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11
Required Performance	100% reduction, 0.5 Cycle
	100% reduction, 1.0 Cycle
	30% reduction, 25 Cycles 🧹 💦 🔶
	30% reduction, 0.5 Cycle
Voltage Interruptions:	100% reduction, 250 Cycles
Test Duration Time:	Minimum three test events in sequence
Interval between Event:	Minimum ten seconds
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°
Test Cycle:	3 times

#### 4.8.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

#### 4.8.3 TEST SETUP



For the actual test configuration, please refer to the related Item -EUT Test Photos.

Page 69 of 74 Report No.: STR221018001012E

#### 4.8.4 TEST RESULTS

EUT:	Smart phone	Model Name:	BV9200
Temperature:	<b>22</b> °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1/2/4/5/6/7/8/9/10/11/12		

#### TEST RESULT

#### Mode 5/6/7/8/9/10/11

Voltage Reduction	Duration (ms)	BT / WIFI / GSM / WCDMA / LTE/ NFC Observation	GPS /WPT Observation	Perform Criteria	Results
Voltage dip: 0%	10	TT, TR	TR	В	P
Voltage dip: 0%	20	TT, TR	TR	В	Р
Voltage dip: 70%	10	TT, TR	TR	С	Р
Voltage dip: 70%	500	TT, TR	TR	C	Р
Voltage interruptions: 0%	5000	TT, TR	TR	С	Р

#### Mode 1/2/4

Voltage	Duration	Perform	Deputto
Reduction	(ms)	Criteria	Results
Voltage dip: 0%	10	В	Р
Voltage dip: 0%	20	В	P
Voltage dip: 70%	10	С	Р
Voltage dip: 70%	500	С	P A
Voltage interruptions: 0%	5000	С	P

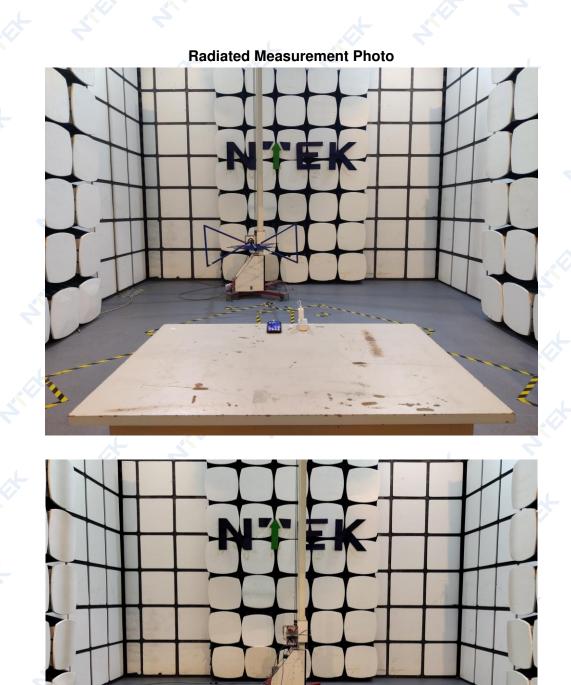
#### Note:

1) There was not any unintentional transmission in standby mode

- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.

Page 70 of 74 Report No.: STR221018001012E

### 4. EUT TEST PHOTO



Report No.: STR221018001012E Page 71 of 74



#### Page 72 of 74 Report No.: STR221018001012E





#### Page 73 of 74 Report No.: STR221018001012E



Page 74 of 74 Report No.: STR221018001012E

