RADIO TEST REPORT
ETSI EN 301 511 V12.5.1 (2017-03)

Product :	Smartphone
Trade Mark :	CUBOT
Model Name :	A10
Family Model :	N/A
Report No. :	S24040904103006

Prepared for

Shenzhen Huafurui Technology Co., Ltd.

Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	Shenzhen Huafurui Technology Co., Ltd.
Address	:	Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China
Manufacturer's Name	:	Shenzhen Huafurui Technology Co., Ltd.
Address	:	Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Product description

Product name	:	Smartphone
Trademark	:	CUBOT
Model Name	:	A10
Family Model	:	N/A
Standards	:	ETSI EN 301 511 V12.5.1 (2017-03)

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 3.2 of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report.
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Test Sample Number	S240409041003
Date of Test	
Date (s) of performance of tests	Apr 09, 2024 ~ May 13, 2024
Date of Issue	May 13, 2024
Test Result	**Pass**

Prepared By	Reviewed By	Approved By
Allen Liu	Aaron Cheng	Alex Li
(Project Engineer)	(Supervisor)	(Manager)

Shenzhen NTEK Testing Technology Co., Ltd. NTEK Report Seal

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1. SUMMARY OF TEST RESULTS

Leading Reference Documents For Testing:

No.	Identity	Document Title
1	ETSI EN 301 511 V12.5.1 (2017-03)	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Specific Reference Documents For Testing:

No.	Identity	Document Title
2	ETSI TS 151 010-1 V12.8.0 (2016-05)	Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 12.8.0 Release 12)

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.
Add. : 1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, China
FCC Registered No.: 463705 IC Registered No.:9270A
CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U** , where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2** , providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±3.6dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.8dB
5	All emissions,radiated(>1G)	±5.0dB
6	Temperature	±0.5°C
7	Humidity	±2%

Revision History

Report No.	Version	Description	Issued Date
S24040904103006	Rev.01	Initial issue of report	May 13, 2024

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment :	Smartphone
Trade Mark:	CUBOT
Model Name:	A10
Family Model	N/A
Model Difference	N/A
Support Band:	☒GSM 900 (EU-Band) ☒DCS 1800 (EU-Band) ☒GSM 850 (U.S.-Band) ☒PCS 1900(U.S.-Band)
Release Version:	R99
GPRS Class:	12
Frequency Bands:	Uplink:GSM/GPRS/ EGPRS 900:880~915MHz GSM/GPRS /EGPRS 1800:1710~1785 MHz GSM/GPRS/ EGPRS 850: 824.2~848.8MHz GSM/GPRS /EGPRS 1900: 1850.2~1909.8MHz
	Downlink:GSM/GPRS/EGPRS 900:925~960MHz GSM/GPRS/EGPRS 1800:1805~1880MHz GSM/GPRS/EGPRS 850: 869.2~893.8MHz GSM/GPRS/EGPRS 1900:1930.2~1989.8MHz
Modulation Mode:	GMSK/8-PSK
SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.
Antenna Description:	PIFA Antenna (GSM900: 0.75 dBi)/(DCS1800: 0.27 dBi) (GSM850:0.29dBi)/(PCS1900: 0.16 dBi)
Adapter	Adapter 1: Model: QZ-01001EA00 Input: AC100-240V~50/60Hz 0.3A Output: 5.0V⎓2.0A (10.0W) Adapter 2: Model: HJ-0502000W2-EU Input: AC100-240V~50/60Hz 0.3A Output: 5.0V⎓2.0A 10.0W Output Power: 10.0W
Battery	DC 3.87V, 5100mAh, 19.74Wh
Rating	DC 3.87V from battery or DC 5V from adapter
Hardware	Q12D V2.0
Software	CUBOT_A10_E045C_V01

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 LIST OF TEST EQUIPMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.03.12	2025.03.11	1 year
2	Test Receiver	R&S	ESPI7	101318	2024.03.12	2025.03.11	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
5	Spectrum Analyzer	Agilent	N9020A	MY46471732	2024.03.12	2025.03.11	1 year
6	Horn Antenna	EM	EM-AH-20180	2011071402	2022.03.31	2025.03.30	3 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2025.11.06	3 year
8	Amplifier	EMC	EMC051835SE	980246	2023.05.29	2024.05.28	1 year
9	Loop Antenna	ARA	PLA-2030/B	1029	2023.05.29	2024.05.28	1 year
10	Temperature & Humitidy Chamber	GIANT FORCE	GTH-056P	GF-94454-1	2023.05.29	2024.05.28	1 year
11	LTE Wireless Communications Test Set	R&S	CMW500	1100.008.02	2023.05.29	2024.05.28	1 year
12	Power Splitter	Mini-Circuits	ZN2PD-63-S+	SF025101428	2023.03.27	2026.03.26	3 year
13	Wireless Communication Test	Anritsu	MT8821C	6262192315	2023.11.03	2024.11.02	1 year
14	Power Meter	DARE	RPR3006W	15I00041SNO84	2023.05.29	2024.05.28	1 year
15	ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2023.09.14	2024.09.13	1 year
16	Spectrum Analyzer	R&S	FSV40	101417	2023.05.29	2024.05.28	1 year

2.3 TYPE OF MOBILE STATION AND ADDITIONAL INFORMATION

Table A.2: Type of Mobile Station (Re. ETSI EN 301 511 Annex A)

Item	Type of Mobile Station	Support	Mnemonic
1	HSCSD Multislot MS	NO	Type_HSCSD_Multislot
2	R-GSM MS	NO	Type_R-GSM
3	Support of GPRS Multislot class on the uplink	YES	Type_GPRS_Multislot_uplink
4	EGPRS	YES	Type_EGPRS
5	EGPRS capable of 8PSK in Uplink, of all Multislot classes	YES	Type_EGPRS_8PSK_uplink

Type A.3: Additional information (Re. ETSI EN 301 511 Annex A)

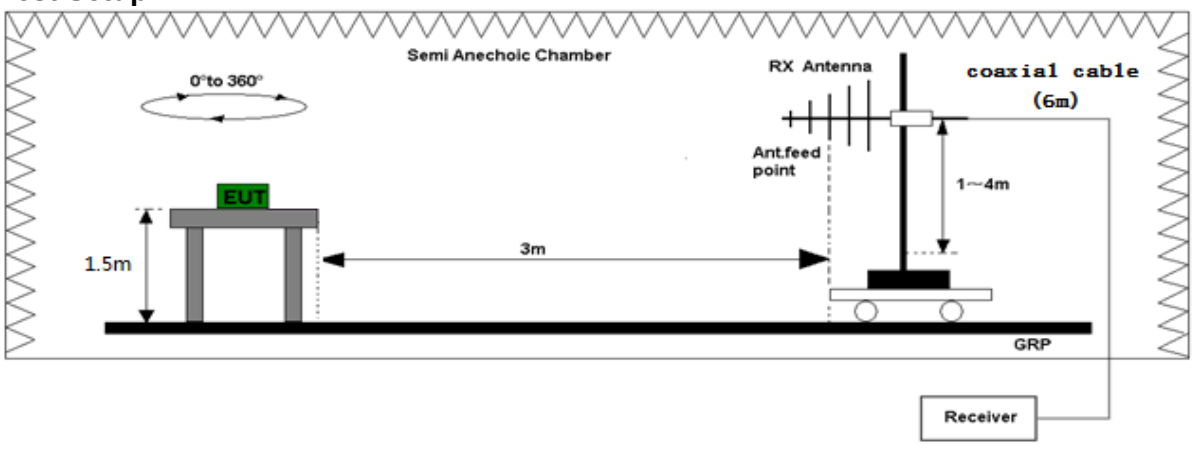
Item	Additional Information	Support	Mnemonic
1	Telephony.	YES	TSPC_Serv_TS11
2	Permanent Antenna Connector	YES	TSPC_AddInfo_PermAntenna

2.4 TEST ENVIRONMENT/CONDITIONS

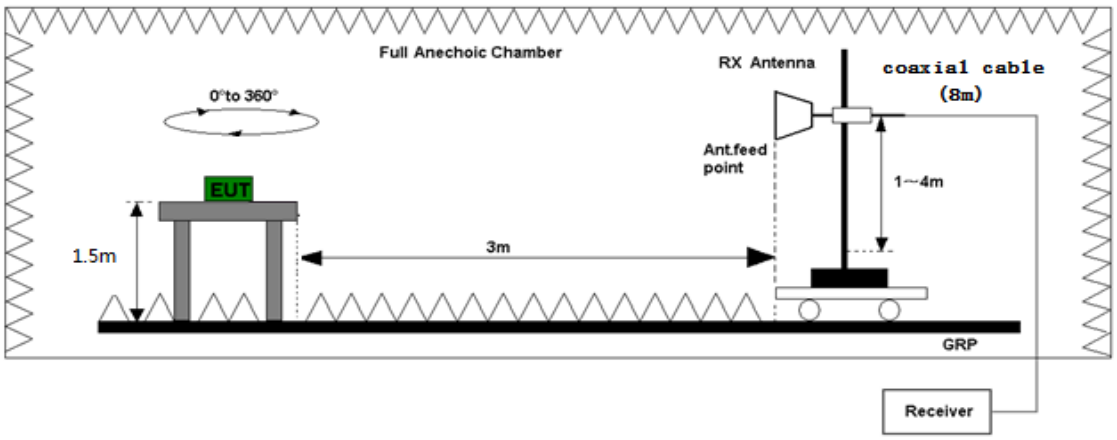
Normal Temperature (NT):	20 ... 25 °C
Relative Humidity:	30 ... 75 %
Air Pressure:	980 ... 1020 hPa
Extreme Temperature:	Low Temperature (LT) = -10°C High Temperature (HT) = 45°C
Extreme Voltage of the EUT (Declared by manufacturer):	Normal Voltage (NV) = DC 3.87V Low Voltage (LV) = DC 3.29V High Voltage (HV) = DC 4.45V

Note: The High Voltage DC 4.45V and Low Voltage DC 3.29V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage. The High temperature and Low temperature was declared by manufacturer

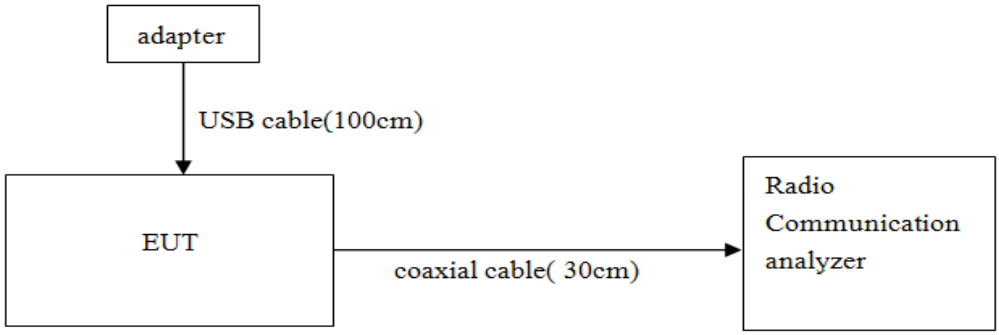
2.5 Test Setup



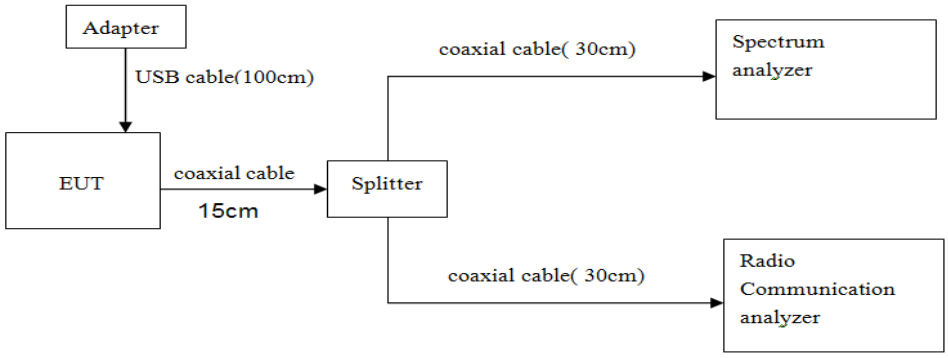
Radiated spurious emissions(30MHz-1GHz)



Radiated spurious emissions(Above 1G)



Conducted Test



Conducted spurious emissions

3. SUMMARY OF TEST REPORT

3.1 TERMS IN THE COLUMN "VERDICT" FOR THE TEST RESULTS LIST OF THISSECTION:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
Decl.	"Declaration": NTEK has received documents from the applicant and/or manufacturer which show conformity to the applied standards for this test case.
N/A	Test case not applicable for the EUT, please see the column "Note" for detailed

3.2 TABLE 1 EN REQUIREMENTS TABLE

Testcase in ETSI EN 301511 V12.5.1	Testcase in 3GPP TS 51.010-1	Description	Condtion	GSM/GPRS/EGPRS 900/850		GSM/GPRS/EGPRS 1800/1900		Test Data
				Sample	Result	Sample	Result	
Section 4.2.1	13.1.5	Transmitter - Frequency error and phase error	NT / NV	A01	PASS	A01	PASS	Appendix A - GSM - Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			Vibration(X)	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			Vibration(Y)	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			Vibration(Z)	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
Section 4.2.2	13.2.5	Transmitter - Frequency error under multipath and interference conditions	NT / NV	A01	PASS	A01	PASS	Appendix A - GSM - Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
Section 4.2.4	13.16.1.5	Frequency error and phase error in GPRS multislot configuration	NT / NV	A01	PASS	A01	PASS	Appendix A - GSM - Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			Vibration(X)	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			Vibration(Y)	A01	PASS	A01	PASS	Appendix B - GSM -Extreme
			Vibration(Z)	A01	PASS	A01	PASS	Appendix B - GSM -Extreme

Testcase in ETSI EN 301511 V12.5.1	Testcase in 3GPP TS 51.010-1	Description	Condtion	GSM/GPRS/EGPRS 900/850		GSM/GPRS/EGPRS 1800/1900		Test Data
				Sample	Result	Sample	Result	
Section 4.2.5	13.3.5	Transmitter output power and burst timing	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
Section 4.2.6	13.4.5	Transmitter - Output RF spectrum	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
Section 4.2.10	13.16.2.5	Transmitter output power in GPRS multislot configuration	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
Section 4.2.11	13.16.3.5	Output RF spectrum in GPRS multislot configuration	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
Section 4.2.12	12.1.1.5	Conducted spurious emissions - MS allocated a channel	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal (Only record the worst test data)
			NT / LV	A01	PASS	A01	PASS	
			NT / HV	A01	PASS	A01	PASS	
Section 4.2.13	12.1.2.5	Conducted spurious emissions - MS in idle mode	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal (Only record the worst test data)
			NT / LV	A01	PASS	A01	PASS	
			NT / HV	A01	PASS	A01	PASS	
Section 4.2.16	12.2.1.5	Radiated spurious emissions - MS allocated a channel	NT / NV	A01	PASS	A01	PASS	Refer to the report
			NT / LV	A01	PASS	A01	PASS	
			NT / HV	A01	PASS	A01	PASS	
Section 4.2.17	12.2.2.5	Radiated spurious emissions - MS in idle mode	NT / NV	A01	PASS	A01	PASS	Refer to the report
			NT / LV	A01	PASS	A01	PASS	
			NT / HV	A01	PASS	A01	PASS	
Section 4.2.20	14.7.1.5	Receiver Blocking and spurious response - speech channels	NT / NV	A01	PASS	A01	PASS	Appendix C -GSM-Blocking

Testcase in ETSI EN 301511 V12.5.1	Testcase in 3GPP TS 51.010-1	Description	Condtion	GSM/GPRS/EGPRS 900/850		GSM/GPRS/EGPRS 1800/1900		Test Data
				Sample	Result	Sample	Result	
Section 4.2.26	13.17.1.5	Frequency error and Modulation accuracy in EGPRS Configuration	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			Vibration(X)	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			Vibration(Y)	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			Vibration(Z)	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
Section 4.2.27	13.17.2.5	Frequency error under multipath and interference conditions in EGPRS Configuration	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
Section 4.2.28	13.17.3.5	EGPRS Transmitter output power	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
Section 4.2.29	13.17.4.5	Output RF spectrum in EGPRS configuration	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
			LT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			LT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / LV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
			HT / HV	A01	PASS	A01	PASS	Appendix B -GSM-Extreme
Section 4.2.30	14.18.5.5	Blocking and spurious response in EGPRS configuration	NT / NV	A01	PASS	A01	PASS	Appendix C -GSM-Blocking
Section 4.2.31	14.18.5b.5	Blocking and spurious response in DLMC configuration	NT / NV	A01	N/A	A01	N/A	N/A
Section 4.2.32	14.6.1.5	Intermodulation rejection - speech channels	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.33	14.6.2.5	Intermodulation rejection - control channels	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.34	14.18.4.5	Intermodulation rejection - EGPRS	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal

Testcase in ETSI EN 301511 V12.5.1	Testcase in 3GPP TS 51.010-1	Description	Condtion	GSM/GPRS/EGPRS 900/850		GSM/GPRS/EGPRS 1800/1900		Test Data
				Sample	Result	Sample	Result	
Section 4.2.35	14.8.1.5	AM suppression - speech channels	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.36	14.8.2.5	AM suppression - control channels	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.37	14.8.3.5	AM suppression - packet channels	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.38	14.5.1.1.5	Adjacent channel rejection - speech channels (TCH/FS)	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.39	14.5.2.5	Adjacent channel rejection - control channels	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.40	14.18.3.5	Adjacent channel rejection - EGPRS	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.41	14.18.3d.5	Adjacent channel rejection in DLMC configuration	NT / NV	A01	N/A	A01	N/A	N/A
Section 4.2.42	14.2.1.5	Reference sensitivity - TCH/FS	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.43	14.2.3.5	Reference sensitivity - FACCH/F	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.44	14.16.1.5	Minimum Input level for Reference Performance - GPRS	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal
Section 4.2.45	14.18.1.5	Minimum Input level for Reference Performance - EGPRS	NT / NV	A01	PASS	A01	PASS	Appendix A -GSM-Normal

4. RADIATED SPURIOUS EMISSIONS

4.1 RADIATED SPURIOUS EMISSIONS – MS ALLOCATED A CHANNEL

Environmental Conditions

Temperature	25°C
Relative Humidity	56%
ATM Pressure	100.2kPa

Test Requirements:

Frequency range		Power level in dBm		
		GSM 400, GSM 700, T-GSM 810, GSM 850, GSM 900	DCS 1 800	PCS 1 900
30 MHz to	1 GHz	-36	-36	-36
1 GHz to	4 GHz	-30		-30
1 GHz to	1 710 MHz		-30	
1 710 MHz to	1 785 MHz		-36	
1 785 MHz to	4 GHz		-30	

TEST RESULT

GSM 900

Normal Voltage,Middle Channel

Frequency (MHz)	Polar (H/V)	ReadingLevel (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
operation frequency:Middle channel						
40.482	V	-59.69	11.22	-48.47	-36.00	-12.47
78.59	V	-62.82	12.45	-50.37	-36.00	-14.37
141.276	V	-62.26	12.88	-49.38	-36.00	-13.38
1783.962	V	-59.83	16.38	-43.45	-30.00	-13.45
2773.806	V	-69.88	14.83	-55.05	-30.00	-25.05
3345.916	V	-66.88	15.64	-51.24	-30.00	-21.24
32.297	H	-61.56	12.29	-49.27	-36.00	-13.27
76.729	H	-61.68	9.79	-51.89	-36.00	-15.89
440.785	H	-69.92	16.72	-53.20	-36.00	-17.20
1736.26	H	-67.09	15.95	-51.14	-30.00	-21.14
2063.079	H	-63.14	12.86	-50.28	-30.00	-20.28
3437.183	H	-62.16	14.69	-47.47	-30.00	-17.47

GSM 1800

Normal Voltage,Middle Channel

Frequency (MHz)	Polar (H/V)	ReadingLevel (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
operation frequency:Middle channel						
36.423	V	-69.65	10.68	-56.08	-36.00	-20.08
78.144	V	-61.58	13.13	-45.56	-36.00	-9.56
255.836	V	-68.62	12.44	-53.29	-36.00	-17.29
1873.679	V	-65.36	14.96	-47.51	-30.00	-17.51
2663.248	V	-62.69	13.91	-45.89	-30.00	-15.89
5005.714	V	-66.55	10.51	-53.15	-30.00	-23.15
31.776	H	-61.57	15.02	-43.66	-36.00	-7.66
79.782	H	-64.78	16.36	-45.53	-36.00	-9.53
444.702	H	-59.47	12.22	-44.36	-36.00	-8.36
1557.397	H	-60.52	14.14	-43.49	-30.00	-13.49
2464.237	H	-69.01	11.31	-54.81	-30.00	-24.81
5516.341	H	-59.05	12.74	-43.42	-30.00	-13.42

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

The laboratory has completed all tests for normal and extreme voltage conditions This report shows only the worst test data.

GSM 850

Normal Voltage,Middle Channel

Frequency (MHz)	Polar (H/V)	ReadingLevel (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
operation frequency:Middle channel						
33.415	V	-65.83	11.22	-54.61	-36.00	-18.61
76.328	V	-63.01	12.45	-50.56	-36.00	-14.56
144.948	V	-64.26	12.88	-51.38	-36.00	-15.38
1673.495	V	-59.48	16.38	-43.10	-30.00	-13.10
2518.215	V	-69	14.83	-54.17	-30.00	-24.17
4493.553	V	-60.72	15.64	-45.08	-30.00	-15.08
37.27	H	-62.3	12.29	-50.01	-36.00	-14.01
77.182	H	-63.14	9.79	-53.35	-36.00	-17.35
243.603	H	-66.66	16.72	-49.94	-36.00	-13.94
1497.079	H	-68.25	15.95	-52.30	-30.00	-22.30
2564.775	H	-64.71	12.86	-51.85	-30.00	-21.85
4357.068	H	-61.51	14.69	-46.82	-30.00	-16.82

GSM 1900

Normal Voltage,Middle Channel

Frequency (MHz)	Polar (H/V)	ReadingLevel (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
operation frequency:Middle channel						
38.92	V	-66.32	10.68	-55.64	-36.00	-19.64
74.132	V	-59.99	13.13	-46.86	-36.00	-10.86
244.298	V	-59.97	12.44	-47.53	-36.00	-11.53
1926.265	V	-64.62	14.96	-49.66	-30.00	-19.66
2835.81	V	-60.82	13.91	-46.91	-30.00	-16.91
3106.976	V	-66.09	10.51	-55.58	-30.00	-25.58
35.702	H	-60.67	15.02	-45.65	-36.00	-9.65
75.986	H	-69.49	16.36	-53.13	-36.00	-17.13
302.156	H	-65.11	12.22	-52.89	-36.00	-16.89
1410.97	H	-68.65	14.14	-54.51	-30.00	-24.51
2567.31	H	-69	11.31	-57.69	-30.00	-27.69
3014.483	H	-67.81	12.74	-55.07	-30.00	-25.07

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

The laboratory has completed all tests for normal and extreme voltage conditions This report shows only the worst test data.

4.2 RADIATED SPURIOUS EMISSIONS – MS IN IDLE MODE

Environmental Conditions

Temperature	25°C
Relative Humidity	56%
ATM Pressure	100.2kPa

Test Requirements:

Frequency range		Power level in dBm	
		GSM 400, T-GSM 810, GSM 900, DCS 1 800	GSM 700, GSM 850, PCS 1 900
30 MHz to	880 MHz	-57	-57
880 MHz to	915 MHz	-59	-57
915 MHz to	1 000 MHz	-57	-57
1 GHz to	1 710 MHz	-47	
1 710 MHz to	1 785 MHz	-53	
1 785 MHz to	4GHz	-47	
1 GHz to	1 850 MHz		-47
1 850 MHz to	1 910 MHz		-53
1 910 MHz to	4GHz		-47

TEST RESULT

GSM 900

Frequency (MHz)	Polar (H/V)	ReadingLevel (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
operation frequency:Middle channel						
99.544	V	-88.71	14.90	-73.81	-57.00	-16.81
167.283	V	-87.52	15.17	-72.35	-57.00	-15.35
534.508	V	-89.05	14.05	-75.00	-57.00	-18.00
1666.046	V	-87.94	15.58	-72.36	-47.00	-25.36
2068.203	V	-87.8	14.06	-73.74	-47.00	-26.74
4445.885	V	-88.56	13.93	-74.63	-47.00	-27.63
49.518	H	-85.33	11.78	-73.55	-57.00	-16.55
159.4	H	-87.55	10.46	-77.09	-57.00	-20.09
439.135	H	-88.64	11.73	-76.91	-57.00	-19.91
1091.965	H	-88.06	12.83	-75.23	-47.00	-28.23
2520.74	H	-86.51	12.64	-73.87	-47.00	-26.87
5663.627	H	-85	9.82	-75.18	-47.00	-28.18

GSM 1800

Frequency (MHz)	Polar (H/V)	ReadingLevel (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
operation frequency:Middle channel						
50.821	V	-82.34	14.39	-67.95	-57.00	-10.95
134.39	V	-82	13.74	-68.26	-57.00	-11.26
663.618	V	-84.26	10.20	-74.06	-57.00	-17.06
1426.25	V	-79.83	13.33	-66.50	-47.00	-19.50
2887.192	V	-81.04	11.86	-69.18	-47.00	-22.18
4004.134	V	-83.91	14.51	-69.40	-47.00	-22.40
88.055	H	-88.81	9.89	-78.92	-57.00	-21.92
200.548	H	-84.3	12.81	-71.49	-57.00	-14.49
781.898	H	-81.06	16.85	-64.21	-57.00	-7.21
1091.213	H	-87.14	14.98	-72.16	-47.00	-25.16
2313.54	H	-87.76	9.28	-78.48	-47.00	-31.48
5950.482	H	-85.58	11.36	-74.22	-47.00	-27.22

Note: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit
The laboratory has completed all tests for normal and extreme voltage conditions. This report shows only the worst test data.

GSM 850

Frequency (MHz)	Polar (H/V)	ReadingLevel (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
operation frequency:Middle channel						
42.566	V	-89.4	14.90	-74.50	-57.00	-17.50
192.956	V	-89.94	15.17	-74.77	-57.00	-17.77
512.685	V	-88.83	14.05	-74.78	-57.00	-17.78
1400.422	V	-88.88	15.58	-73.30	-47.00	-26.30
2201.412	V	-84.33	14.06	-70.27	-47.00	-23.27
5330.686	V	-84.17	13.93	-70.24	-47.00	-23.24
81.951	H	-87.29	11.78	-75.51	-57.00	-18.51
255.261	H	-89.09	10.46	-78.63	-57.00	-21.63
716.505	H	-85.4	11.73	-73.67	-57.00	-16.67
1783.496	H	-84.9	12.83	-72.07	-47.00	-25.07
2377.391	H	-86.28	12.64	-73.64	-47.00	-26.64
3992.877	H	-88.29	9.82	-78.47	-47.00	-31.47

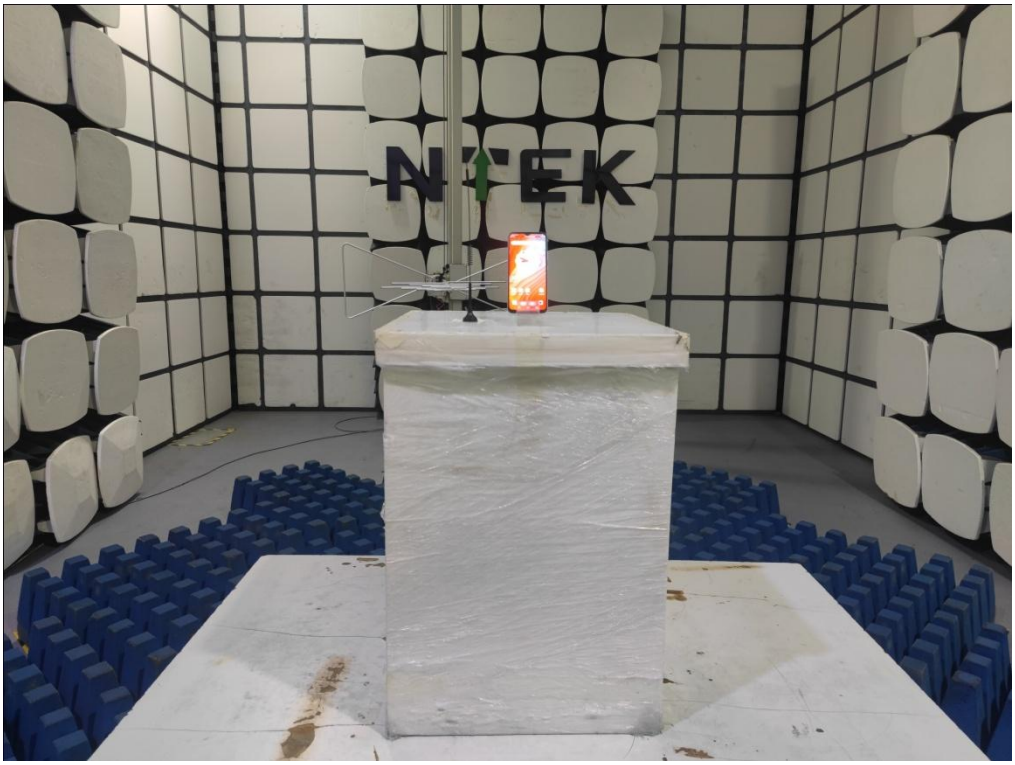
GSM 1900

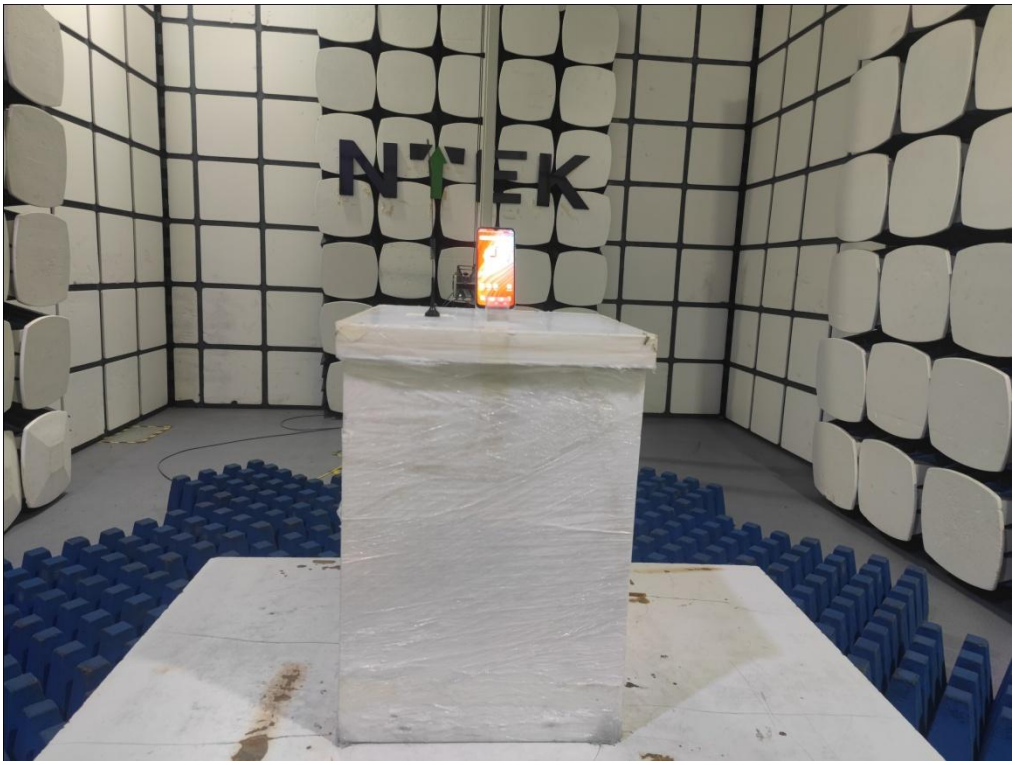
Frequency (MHz)	Polar (H/V)	ReadingLevel (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
operation frequency:Middle channel						
62.325	V	-81.49	14.39	-67.10	-57.00	-10.10
276.702	V	-79.92	13.74	-66.18	-57.00	-9.18
859.866	V	-87.32	10.20	-77.12	-57.00	-20.12
1046.109	V	-80.93	13.33	-67.60	-47.00	-20.60
2665.713	V	-82.55	11.86	-70.69	-47.00	-23.69
5313.136	V	-82.24	14.51	-67.73	-47.00	-20.73
71.849	H	-88.84	9.89	-78.95	-57.00	-21.95
154.22	H	-85.94	12.81	-73.13	-57.00	-16.13
415.329	H	-88.52	16.85	-71.67	-57.00	-14.67
1007.138	H	-80.79	14.98	-65.81	-47.00	-18.81
2598.824	H	-80.37	9.28	-71.09	-47.00	-24.09
3641.856	H	-81.28	11.36	-69.92	-47.00	-22.92

Note: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit
The laboratory has completed all tests for normal and extreme voltage conditions. This report shows only the worst test data.

5. PHOTOGRAPHS OF THE TEST SETUP

Radiated Spurious Emission Test





END OF REPORT