



**GOVERNMENT OF INDIA  
MINISTRY OF COMMUNICATIONS  
DEPARTMENT OF TELECOMMUNICATIONS  
TELECOMMUNICATION ENGINEERING CENTRE  
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001**

## **CERTIFICATE OF DESIGNATION**

**M/S UL INDIA PRIVATE LIMITED, BENGALURU**

has been assessed and designated as Conformity Assessment Body (CAB)  
for its facilities at

**30/A, I STAGE, VISHVESHWARYA INDUSTRIAL ESTATE,  
DODDANEKKUNDI, INDUSTRIAL AREA, BENGALURU - 560 048**

**In the field of Testing**

**Certificate No. TEC/MRA/CAB/IND-D/59-II**

**Issue Date: 30/10/2023**

**Validity: 28/10/2023 to 27/10/2026**

**This Certificate remains valid for the Scope of Designation as specified in the Annexure subject to the continued validity of NABL Accreditation and satisfied compliance to the Standards/specifications against which lab has been designated and strict compliance to the relevant terms and conditions of TEC CAB Designation Scheme.**

**(To see the scope of designation of this laboratory, you may also visit TEC website [www.tec.gov.in](http://www.tec.gov.in))**

**Signed for and on behalf of TEC**

**Vijay Dixit  
Director (CA)  
For Designating Authority  
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/59-II dated 30/10/2023 issued to  
M/S UL India Private Limited, Bengaluru  
30/A, I stage, Vishveshwarya Industrial Estate,  
Doddanekkundi, Industrial Area, Bengaluru - 560 048**



**Validity: - 28/10/2023 to 27/10/2026**

### **Terms & Conditions**

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 3 NO. TEC 04019:2023.

Some of the conditions are reiterated as under:

#### **A. Obligations of the Designated CAB.**

1. It shall ensure that it maintains its accreditation status from any recognised Indian accreditation body like NABL during validity period of certificate.
2. It shall follow the stipulated procedures, rules and policies laid down by Designating Authority (DA) or Mutual Recognition Agreement (MRA)\* partner for testing and evaluation.
3. In respect of tests for which it is seeking designation, it shall have no interest whatsoever in any business to carry on testing in an unfair or biased manner.
4. It shall fully indemnify DA from and against all liabilities, damages, claims, costs, and expenses incurred or sustained by DA as a result of any action taken or omitted by DA relating to the process of designation.
5. It shall comply with DA's or MRA partner's terms and conditions for designation and recognition as modified from time to time.
6. It shall be under obligation to participate in the online process prescribed by TEC for test and certification against TEC's GR/IR/ER and standards.
7. It shall have a record system which shall have a retention period of at least 5 years for documents related to the equipment testing. It shall maintain all the relevant documents including list of products submitted for testing, product-wise testing and evaluation reports. These documents shall be produced before the DA within seven days, as and when required.
8. It shall ensure the Intellectual Property Rights of the customers in the course of testing by maintaining professional ethics, secrecy and keeping all the product related information confidential.

\*Applicable only if recognized by MRA (Mutual Recognition Agreement) partner.

9. It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of its occurrence
  - a) Cessation of its business of conformity assessment for which it is Designated or accredited
  - b) Changes in its legal, commercial, or Organisational status
  - c) Changes, which may affect continuing compliance with any of the criteria or requirement specified by DA or MRA partner.
  - d) Change of premises

## **B. REFERENCE TO DESIGNATION STATUS**

1. Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.
2. The advertisement should not imply, or otherwise suggest that DA or MRA Partner has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.
3. CABs whose designations have been suspended or withdrawn for any reason, shall discontinue advertisement of their designated status and not make any misleading statements regarding their designation status.

## **C. POST-DESIGNATION SURVEILLANCE**

As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

## **D. SUSPENSION OR WITHDRAWAL OF DESIGNATION**

1. DA shall suspend or withdraw the designation of a CAB if
  - a. Its accreditation is withdrawn.
  - b. It is found that the CAB is not complying with the stipulated criteria or requirements.
  - c. It is guilty of any offence involving fraud or dishonesty.
  - d. DA concludes that there is a just cause for withdrawing the designation.
2. A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.
3. DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

## **E. AMENDMENT TO THE SCHEME**

DA reserves the rights to amend the scheme, as and when required, for the purpose of streamlining designation process.

## SCOPE OF DESIGNATION

### (ANNEXURE)

**Laboratory Name:** M/S UL India Private Limited, Bengaluru  
30/A, I stage, Vishveshwarya Industrial Estate,  
Doddanekkundi, Industrial Area, Bengaluru - 560 048

**Certificate Number:** TEC/MRA/CAB/IND-D/59-II

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**Validity:** 28/10/2023 to 27/10/2026\*

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
1.	<b>EMI/EMC Testing of Telecommunication Equipment</b>	Conducted Emission Test CISPR 32/ EN 55032	TEC/SD/DD/EMC -221/05/OCT-16
		Conducted Emission Test CISPR 11	TEC/SD/DD/EMC -221/05/OCT-16
		Radiated Emission Test CISPR 32/ EN 55032	TEC/SD/DD/EMC -221/05/OCT-16
		Radiated Emission Test CISPR 11	TEC/SD/DD/EMC -221/05/OCT-16
		Electrostatic Discharge Immunity Test IEC 61000-4-2/ EN 61000-4-2	TEC/SD/DD/EMC -221/05/OCT-16
		Radiated Radio Frequency Electromagnetic Field Immunity Test IEC 61000-4-3/ EN 61000-4-3	TEC/SD/DD/EMC -221/05/OCT-16
		Electrical Fast Transient (EFT)/ Burst Immunity Test IEC 61000-4-4/ EN 61000-4-4	TEC/SD/DD/EMC -221/05/OCT-16
		Surge Immunity Test IEC61000-4-5/ EN 61000-4-5	TEC/SD/DD/EMC -221/05/OCT-16
		Conducted RF Immunity Test IEC 61000-4-6/ EN 61000-4-6	TEC/SD/DD/EMC -221/05/OCT-16

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**Validity:** 28/10/2023 to 27/10/2026\*

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>EMI/EMC Testing of Telecommunication Equipment</b>	Voltage Dips, Short Interruption & Voltage Variations Immunity Test IEC61000-4-11/ EN 61000-4-11	TEC/SD/DD/EMC -221/05/OCT-16
		Voltage Dips, Short Interruptions and Voltage variations on DC Input Power Port Immunity Tests IEC 61000-4-29/ EN 61000-4-29	TEC/SD/DD/EMC -221/05/OCT-16
<b>2.</b>	<b>Equipment Operating in 2.4 GHz and 5 GHz Frequency Bands</b>	RF Output Power Clause- 4.3.1.2/ 4.3.2.2	ETSI EN 300 328 V2.1.1 (2016-11)
		Power Spectral Density Clause- 4.3.2.3	ETSI EN 300 328 V2.1.1 (2016-11)
		Duty cycle, Tx-Sequence Tx-gap Clause- 4.3.1.3/ 4.3.2.4	ETSI EN 300 328 V2.1.1 (2016-11)
		Accumulated transmit time, Frequency Occupation & Hopping Sequence Clause- 4.3.1.4	ETSI EN 300 328 V2.1.1 (2016-11)
		Hopping Frequency Separation Clause- 4.3.1.5	ETSI EN 300 328 V2.1.1 (2016-11)
		Medium Utilization Clause- 4.3.1.6/ 4.3.2.5	ETSI EN 300 328 V2.1.1 (2016-11)
		Adaptivity Clause- 4.3.1.7/4.3.2.6	ETSI EN 300 328 V2.1.1 (2016-11)
		Occupied Channel Bandwidth Clause- 4.3.1.8/ 4.3.2.7	ETSI EN 300 328 V2.1.1 (2016-11)

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**Validity:** 28/10/2023 to 27/10/2026\*

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Equipment Operating in 2.4 GHz and 5 GHz Frequency Bands</b>	Transmitter Unwanted Emissions in the OOB domain Clause- 4.3.1.9/ 4.3.2.8	ETSI EN 300 328 V2.1.1 (2016-11)
		Transmitter Unwanted Emissions in the Spurious Domain – Conducted and Radiated Clause- 4.3.1.10/4.3.2.9	ETSI EN 300 328 V2.1.1 (2016-11)
		Receiver Spurious Emission –Conducted and Radiated Clause- 4.3.1.11/4.3.2.10	ETSI EN 300 328 V2.1.1 (2016-11)
		Receiver Blocking Clause- 4.3.1.12/4.3.2.11	ETSI EN 300 328 V2.1.1 (2016-11)
		Maximum Conducted Output Power Clause- 15.247(b)	FCC Part 15 Subpart C
		Power Spectral Density Clause- 15.247(e)	FCC Part 15 Subpart C
		6 dB Bandwidth & 99% Occupied Channel Bandwidth Clause- 15.247(a)(2)	FCC Part 15 Subpart C
		Band Edge Compliance (Emissions in the Non-Restricted Frequency Band) and conducted Spurious Emission Clause- 15.247(d)	FCC Part 15 Subpart C
		Radiated Emission, Transmitter Spurious Emission, Receiver Spurious Emission, Unwanted Emissions Clause 15.209, 15.205	FCC Part 15 Subpart C

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**Validity:** 28/10/2023 to 27/10/2026\*

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Equipment Operating in 2.4 GHz and 5 GHz Frequency Bands</b>	Bandwidth Occupancy (20dB Bandwidth) Clause- 15.247(a)(1)/15.215(c)	FCC Part 15 Subpart C
		Number of Hopping Channel Clause- 15.247 (a)(1)	FCC Part 15 Subpart C
		Carrier Frequency Separation Clause- 15.247(a)(1)	FCC Part 15 Subpart C
		Time of Occupancy Clause- 15.247(a)(1)	FCC Part 15 Subpart C
		Carrier Frequencies Clause- 4.2.1	ETSI EN 301 893 V2.1.1 (2017-05)
		Nominal and Occupied Channel Bandwidth Clause- 4.2.2	ETSI EN 301 893 V2.1.1 (2017-05)
		RF Output Power Transmit Power Control (TPC) Power Density Clause- 4.2.3	ETSI EN 301 893 V2.1.1 (2017-05)
		Transmitter Unwanted Emissions within the 5 GHz RLAN bands Clause- 4.2.4.2	ETSI EN 301 893 V2.1.1 (2017-05)
		Transmitter Unwanted Emissions outside the 5 GHz RLAN bands –Conducted and Radiated Clause- 4.2.4.1	ETSI EN 301 893 V2.1.1 (2017-05)
		Receiver Spurious Emission- Conducted and Radiated Clause- 4.2.5	ETSI EN 301 893 V2.1.1 (2017-05)
		Adaptivity Clause- 4.2.7	ETSI EN 301 893 V2.1.1 (2017-05)

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**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Equipment Operating in 2.4 GHz and 5 GHz Frequency Bands</b>	Dynamic Frequency Selection (DFS) Clause- 4.2.6	ETSI EN 301 893 V2.1.1 (2017-05)
		Receiver Blocking Clause- 4.2.8	ETSI EN 301 893 V2.1.1 (2017-05)
		Maximum Conducted Output Power Clause 15.407(a)	FCC Part 15 Subpart E
		6 dB Bandwidth & 99% Occupied Channel Bandwidth Clause- 15.407(a)	FCC Part 15 Subpart E
		Maximum Power Spectral Density Clause- 15.407(a)	FCC Part 15 Subpart E
		Band Edge Compliance (Emissions in the Non-Restricted Frequency Band) and Conducted Spurious Emission Clause- 15.407(b)	FCC Part 15 Subpart E
		Emission Bandwidth (X dB Bandwidth) Clause- 15.407(a)	FCC Part 15 Subpart E
		Dynamic Frequency Selection Clause- 15.407(h)	FCC Part 15 Subpart E
		Radiated Emission, Transmitter Spurious Emission, Receiver Spurious Emission, Unwanted Emissions Clause- 15.209 & 15.407(b)	FCC Part 15 Subpart E
		Designation of Centre Frequencies & Frequency Error Clause- 4.2.1	ETSI EN 302 502 V2.1.1 (2017-03)

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Equipment Operating in 2.4 GHz and 5 GHz Frequency Bands</b>	Transmitter RF Output Power, EIRP, TPC and EIRP Spectral Density Clause- 4.2.2 & 4.2.4	ETSI EN 302 502 V2.1.1 (2017-03)
		Transmitter Unwanted Emissions within the 5725 MHz to 5875 MHz Band Clause- 4.2.3.2	ETSI EN 302 502 V2.1.1 (2017-03)
		Transmitter Unwanted Emissions outside the 5 GHz RLAN Bands –Conducted & Radiated Clause- 4.2.3.1	ETSI EN 302 502 V2.1.1 (2017-03)
		Receiver Spurious Emission –Conducted & Radiated Clause- 4.2.5	ETSI EN 302 502 V2.1.1 (2017-03)
<b>3. Point of Sale Devices</b>	<b>Interface: GSM/GPRS/EDGE</b>	Transmitter Maximum Output Power and Burst Timing for GSM EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017	TEC ER No. TEC17672301
		Transmitter Output Power for GPRS/EDGE EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017	TEC ER No. TEC17672301
		Transmitter - Output RF Spectrum for GSM EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017	TEC ER No. TEC17672301

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	<b>Point of Sale Devices</b>	<b>Interface:</b> <b>GSM/</b> <b>GPRS/</b> <b>EDGE</b>	Transmitter - Output RF Spectrum for GPRS/EDGE EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017	TEC ER No. TEC17672301
		Spurious Emissions - MS allocated a channel EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017	TEC ER No. TEC17672301	
		Spurious Emissions - MS in idle mode EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017	TEC ER No. TEC17672301	
		Frequency Error and Phase Error for GSM EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017	TEC ER No. TEC17672301	
		Frequency Error and Phase Error for GPRS/EDGE EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017	TEC ER No. TEC17672301	
		Reference Sensitivity Level (Speech Channels) EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.42:2019	TEC ER No. TEC17672301	

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**SCOPE OF DESIGNATION**  
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**Validity:** 28/10/2023 to 27/10/2026\*

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	Point of Sale Devices	<b>Interface:</b> GSM/ GPRS/ EDGE	Adjacent Channel Rejection - Speech channels EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.38:2019	TEC ER No. TEC17672301
			Receiver Blocking EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017	TEC ER No. TEC17672301
		<b>Interface:</b> WCDMA or HSPA	Spectrum Emissions Mask EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC17672301
			Transmitter Spurious Emissions EN 301 908-2 (UMTS) Clause- 4.2.4.1	TEC ER No. TEC17672301
			Receiver Spurious Emission EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC17672301
			Transmitter Minimum Output Power EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC17672301
			Receiver Reference Sensitivity Level EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC17672301
			Receiver Adjacent Channel Selectivity (ACS)	TEC ER No. TEC17672301

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	Point of Sale Devices	<b>Interface: WCDMA or HSPA</b>	EN 301 908-2 (UMTS) Clause- 4.2.6	
			Receiver In-band blocking EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC17672301
		<b>Interface: LTE or LTE-A</b>	Maximum Output Power EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC17672301
			Spectrum Emissions Mask EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC17672301
			Spurious Emissions EN 301 908-13 (LTE) Clause- 4.2.4.1	TEC ER No. TEC17672301
			Receiver Spurious Emission EN 301 908-13 (LTE) Clause- 4.2.10.1	TEC ER No. TEC17672301
			Receiver Reference Sensitivity level EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC17672301
			Receiver Adjacent Channel Selectivity (ACS) EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC17672301
			Receiver In-band blocking EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC17672301

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Point of Sale Devices</b>	<b>Interface: RFID</b>	
		Permitted Range of Operating Frequencies ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 4.3.1 Annexure-G6	TEC ER No. TEC17672301
		Frequency of Operation ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 6.2.2 Annexure-G 6 ETSI EN 300 220-1 V 3.1.1 Clause- 5.1.2 Annexure-G 5	TEC ER No. TEC17672301
		Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.3, Clause- 6.2.3 Annexure- G 6	TEC ER No. TEC17672301
		Transmitter Radiated Spurious domain Emission limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.9 (For equipment under class 1, 2 and 4 in clause- 6.1.2), Clause- 6.2.9 Annexure- G 6	TEC ER No. TEC17672301
		Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.4.2, Clause- 6.3.1 Annexure- G6	TEC ER No. TEC17672301

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	<b>Point of Sale Devices</b>	<b>Interface: RFID</b> EIRP for Interface ETSI EN 300 220-1 V3.1.1 Clause- 5.2.2 Annexure- G5	TEC ER No. TEC17672301
		Maximum Transmit Power ETSI EN 300 220-1 V3.1.1 Clause- 5.2.2 Annexure- G5	TEC ER No. TEC17672301
		Unwanted Emissions in the Spurious domain ETSI EN 300 220-1 V3.1.1 Clause- 5.9.3 Annexure- G5	TEC ER No. TEC17672301
		Transmitter radiated Spurious domain emission limits <30 MHz ETSI EN 300 330 V 2.1.1 (2017-02) Clause-4.3.8, 6.2.8 Annexure-G6	TEC ER No. TEC17672301
<b>4.</b>	<b>Feedback Device</b>	<b>Interface: GSM/GPRS/EDGE</b> Transmitter Maximum Output Power and Burst Timing for GSM EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017	TEC ER No. TEC23232106
		Transmitter Output Power for GPRS/EDGE EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017	TEC ER No. TEC23232106

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**DEPARTMENT OF TELECOMMUNICATIONS**  
**TELECOMMUNICATION ENGINEERING CENTRE**  
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001



**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name:** M/S UL India Private Limited, Bengaluru  
30/A, I stage, Vishveshwarya Industrial Estate,  
Doddanekkundi, Industrial Area, Bengaluru - 560 048

**Certificate Number:** TEC/MRA/CAB/IND-D/59-II

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**Validity:** 28/10/2023 to 27/10/2026\*

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Feedback Device</b>	<b>Interface: GSM/GPRS/EDGE</b>	
		Transmitter - Output RF Spectrum for GSM EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017	TEC ER No. TEC23232106
		Transmitter - Output RF Spectrum for GPRS/EDGE EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017	TEC ER No. TEC23232106
		Spurious Emissions - MS allocated a channel EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017	TEC ER No. TEC23232106
		Spurious Emissions - MS in idle mode EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017	TEC ER No. TEC23232106
		Frequency Error and Phase Error for GSM EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017	TEC ER No. TEC23232106
		Frequency Error and Phase Error for GPRS/EDGE EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017	TEC ER No. TEC23232106

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**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	<b>Feedback Device</b>	<b>Interface: GSM/GPRS/EDGE</b>	Reference Sensitivity Level (Speech Channels) EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.42:2019	TEC ER No. TEC23232106
			Adjacent Channel Rejection - Speech Channels EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.38:2019	TEC ER No. TEC23232106
			Receiver Blocking EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017	TEC ER No. TEC23232106
		<b>Interface: WCDMA or HSPA</b>	Spectrum Emissions Mask EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC23232106
			Transmitter Spurious Emissions EN 301 908-2 (UMTS) Clause- 4.2.4.1	TEC ER No. TEC23232106
			Receiver Spurious Emission EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC23232106
			Transmitter Minimum Output Power EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC23232106

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	<b>Feedback Device</b>	<b>Interface: WCDMA or HSPA</b>	Receiver Reference Sensitivity Level EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC23232106
			Receiver Adjacent Channel Selectivity (ACS) EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC23232106
			Receiver In-band blocking EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC23232106
		<b>Interface: LTE or LTE-A</b>	Maximum Output Power EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC23232106
			Spectrum Emissions Mask EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC23232106
			Spurious Emissions EN 301 908-13 (LTE) Clause- 4.2.4.1	TEC ER No. TEC23232106
			Receiver Spurious Emission EN 301 908-13 (LTE) Clause- 4.2.10.1	TEC ER No. TEC23232106
			Receiver Reference Sensitivity Level EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC23232106

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**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	<b>Feedback Device</b>	<b>Interface: LTE or LTE-A</b>	Receiver Adjacent Channel Selectivity (ACS) EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC23232106
			Receiver In-band blocking EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC23232106
		<b>Interface: LPWAN-LoRa</b>	Frequency of Operation ETSI EN 300 220-1 V3.1.1 Clause- 5.1.2 Annexure-G5	TEC ER No. TEC23232106
			EIRP for Interface ETSI EN 300 220-2 V3.1.1 Clause- 5.2.2 Annexure-G5	TEC ER No. TEC23232106
			Maximum Transmit Power ETSI EN 300 220-2 V3.1.1 Clause- 5.2.2 Annexure-G5	TEC ER No. TEC23232106
			Unwanted Emissions in the Spurious domain ETSI EN 300 220-2 V3.1.1 Clause- 5.9.3 Annexure-G5	TEC ER No. TEC23232106
			TX Transient ETSI EN 300 220-2 V3.1.1 Clause- 4.3.6 Annexure-G5	TEC ER No. TEC23232106
			TX Adjacent Channel Power ETSI EN 300 220-2 V3.1.1 Clause- 4.3.7 Annexure-G5	TEC ER No. TEC23232106

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	<b>Feedback Device</b>	<b>Interface: LPWAN-LoRa</b>	TX behaviour under low voltage conditions ETSI EN 300 220-2 V3.1.1 Clause- 4.3.8 Annexure-G5	TEC ER No. TEC23232106
			RX Sensitivity ETSI EN 300 220-2 V3.1.1 Clause- 4.4.1 Annexure-G5	TEC ER No. TEC23232106
			RX Blocking ETSI EN 300 220-2 V3.1.1 Clause- 5.18.6 Annexure-G5	TEC ER No. TEC23232106

**AD (CA), TEC**

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