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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 TUV SUD South Asia Private Limited, Bangalore

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

Plot No. 3-P1-B, Hitech Defence & Aerospace Park,
KIADB Industrial Area, BK Palya, Bengaluru- 562149, India

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/106

Issue Date: 05/08/2025 **Validity: 05/08/2025 to 04/08/2028**

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)

Signed for and on behalf of TEC

Digitally signed by
Sanjeev Kumar Arya
Date: 05-08-2025
12:44:45

Sanjeev Kumar Arya
Director (CA)
For Designating Authority
TEC

Certificate No: TEC/MRA/CAB/IND-D/106 dated 05/08/2025 issued to M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence &Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India

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Validity: - 05/08/2025 to 04/08/2028

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.

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 1 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
1	**Audio/Video, Information and Communication Technology equipment: Safety Requirements**	Fixing of conductors Clause-4.6	IEC 62368-1
		Equipment for direct insertion into mains socket-outlets Clause-4.7	IEC 62368-1
		Equipment containing coin / button cell batteries Clause-4.8	IEC 62368-1
		Likelihood of fire or shock due to entry of conductive objects Clause-4.9	IEC 62368-1
		Components requirements Clause-4.10	IEC 62368-1
		Electrically-caused injury Clause-5	IEC 62368-1
		Classification and limits of electrical energy sources Clause-5.2	IEC 62368-1
		Protection against electrical energy sources Clause-5.3	IEC 62368-1
		Insulation materials and requirements Clause-5.4	IEC 62368-1
		Components as safeguards Clause-5.5	IEC 62368-1
		Protective conductor Clause-5.6	IEC 62368-1
		Prospective touch voltage, touch current and protective conductor current Clause-5.7	IEC 62368-1

***The validity of Certificate is up to 04/08/2028 or the continued validity of NABL Accreditation, whichever is earlier.**

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 2 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology equipment: Safety Requirements	Backfeed safeguard in battery backed up supplies Clause- 5.8	IEC 62368-1
		Electrically-caused fire Clause-6	IEC 62368-1
		Classification of power sources (PS) and potential ignition sources (PIS) Clause-6.2	IEC 62368-1
		Safeguards against fire under normal operating conditions and abnormal operating conditions Clause- 6.3	IEC 62368-1
		Safeguards against fire under single fault conditions Clause-6.4	IEC 62368-1
		Internal and external wiring Clause-6.5	IEC 62368-1
		Safeguards against fire due to the connection of additional equipment Clause-6.6	IEC 62368-1
		Mechanically caused injury Clause-8	IEC 62368-1
		Mechanical energy source classifications Clause-8.2	IEC 62368-1
		Safeguards against mechanical energy sources Clause-8.3	IEC 62368-1
		Safeguards against parts with sharp edges and corners Clause-8.4	IEC 62368-1
		Safeguards against moving parts Clause-8.5	IEC 62368-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 3 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology equipment: Safety Requirements	Stability of equipment Clause-8.6	IEC 62368-1
		Equipment mounted to a wall, ceiling or other structure Clause-8.7	IEC 62368-1
		Handle strength Clause-8.8	IEC 62368-1
		Wheels or casters attachment requirements Clause-8.9	IEC 62368-1
		Carts, stands, and similar carriers Clause-8.10	IEC 62368-1
		Mounting means for slide-rail mounted equipment (SRME) Clause-8.11	IEC 62368-1
		Telescoping or rod antennas Clause8.12	IEC 62368-1
		Thermal burn injury Clause-9	IEC 62368-1
		Normal operating condition tests, abnormal operating condition tests and single fault condition tests Clause-Annex B	IEC 62368-1
		Test generators Clause-Annex D **(Expect D.3)**	IEC 62368-1
		Test conditions for equipment containing audio amplifiers Clause- Annex E	IEC 62368-1
		Equipment markings, instructions, and instructional safeguards Clause- Annex F	IEC 62368-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 4 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology equipment: Safety Requirements	Switches Clause-Annex G.1	IEC 62368-1
		Relays Clause-Annex G.2	IEC 62368-1
		Protective devices Clause-Annex G.3	IEC 62368-1
		Connectors Clause-Annex G.4	IEC 62368-1
		Wire insulation in wound components Clause-Annex G.5.1	IEC 62368-1
		Endurance test Clause-Annex G.5.2	IEC 62368-1
		General Clause-Annex G.5.3.1	IEC 62368-1
		Insulation Clause-Annex G.5.3.2	IEC 62368-1
		Transformers with basic insulation only Clause-Annex G.5.3.4.2	IEC 62368-1
		Transformers with double insulation or reinforced insulation Clause-Annex G.5.3.4.3	IEC 62368-1
		Transformers with FIW wound on metal or ferrite core Clause-Annex G.5.3.4.4	IEC 62368-1
		Thermal cycling test and compliance Clause-Annex G.5.3.4.5	IEC 62368-1
		Motors Clause-Annex G.5.4	IEC 62368-1
		Wire insulation Clause-Annex G.6	IEC 62368-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 5 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology equipment: Safety Requirements	Mains supply cords Clause-Annex G.7	IEC 62368-1
		Resistors Clause- Annex G.10	IEC 62368-1
		Capacitors and RC units Clause-Annex G.11	IEC 62368-1
		Optocouplers Clause-Annex G.12	IEC 62368-1
		Printed boards Clause-Annex G.13	IEC 62368-1
		Coatings on component terminals Clause- Annex G.14	IEC 62368-1
		Vibration test Clause-Annex G.15.2.4	IEC 62368-1
		Thermal cycling test Clause-Annex G.15.2.5	IEC 62368-1
		Force test Clause-Annex G.15.2.6	IEC 62368-1
		Criteria for telephone ringing signals Clause- Annex H	IEC 62368-1
		Insulated winding wires for use without interleaved insulation Clause-Annex J	IEC 62368-1
		Safety interlocks Clause-Annex K	IEC 62368-1
		Disconnect devices Clause-Annex L	IEC 62368-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 6 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology equipment: Safety Requirements	Equipment containing batteries and their protection circuits Clause-Annex M **(Except Annex M.4.2, M.4.4.4, M.7, M.8)**	IEC 62368-1
		Electrochemical potentials Clause-Annex N	IEC 62368-1
		Measurement of Creepage distances and clearances Clause-Annex O	IEC 62368-1
		Safeguards against conductive objects Clause-Annex P	IEC 62368-1
		Circuits intended for interconnection with building wiring Clause-Annex Q	IEC 62368-1
		Mechanical strength tests Clause-Annex T	IEC 62368-1
		Determination of accessible parts Clause-Annex V	IEC 62368-1
		Alternative method for determining clearances for insulation in circuits connected to an AC mains not exceeding 420 V peak (300 V RMS) 2877 Clause- Annex X	IEC 62368-1
		Protection of equipment within an outdoor enclosure Clause – Annex Y.5	IEC 62368-1
		Mechanical Strength of enclosure Clause- Annex Y.6	IEC 62368-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 7 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
2	**Information Technology Equipment-Safety Requirements**	Component Clause-1.5	IEC 60950-1
		Power Interface Clause-1.6	IEC 60950-1
		Marking and instructions Clause- 1.7	IEC 60950-1
		Protection from Electric Shock and energy hazards Clause- 2.1	IEC 60950-1
		Access to ELV wiring Clause- 2.1.1.3	IEC 60950-1
		Energy Hazards Clause- 2.1.1.5	IEC 60950-1
		Manual Controls Clause- 2.1.1.6	IEC 60950-1
		Discharge of capacitors in equipment Clause-2.1.1.7	IEC 60950-1
		Energy hazards d.c. main supplies Clause- 2.1.1.8	IEC 60950-1
		Audio Amplifiers in Information Technology Equipment Clause-2.1.1.9	IEC 60950-1
		Protection in service access areas Clause- 2.1.2	IEC 60950-1
		Protection in restricted access locations Clause-2.1.3	IEC 60950-1
		SELV Circuit Clause- 2.2	IEC 60950-1
		TNV Circuit Clause- 2.3	IEC 60950-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 8 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirements	Limited Currents Clause- 2.4	IEC 60950-1
		Limited Power Sources Clause-2.5	IEC 60950-1
		Provisions for earthing and bonding Clause- 2.6	IEC 60950-1
		Overcurrent and earth fault protection in primary circuits Clause-2.7	IEC 60950-1
		Safety Interlocks Clause- 2.8	IEC 60950-1
		Electrical insulation Clause-2.9	IEC 60950-1
		Clearances, creepage distances and distances through insulation Clause-2.10	IEC 60950-1
		Determination of working voltage Clause-2.10.2	IEC 60950-1
		Clearances Clause-2.10.3	IEC 60950-1
		Creepage distances Clause-2.10.4	IEC 60950-1
		Solid insulation Clause-2.10.5	IEC 60950-1
		Construction of printed boards Clause-2.10.6	IEC 60950-1
		Component external terminations Clause-2.10.7	IEC 60950-1

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirements	Tests on coated printed boards and coated components Clause-2.10.8	IEC 60950-1
		Thermal Cycling Clause-2.10.9	IEC 60950-1
		Test for Pollution Degree 1 environment and for insulating compound Clause-2.10.10	IEC 60950-1
		Tests for semiconductor devices and for cemented joints Clause-2.10.11	IEC 60950-1
		Enclosed and sealed parts Clause-2.10.12	IEC 60950-1
		Current rating and overcurrent protection Clause- 3.1.1	IEC 60950-1
		Protection against mechanical damage Clause-3.1.2	IEC 60950-1
		Securing of internal wiring Clause-3.1.3	IEC 60950-1
		Insulation of conductors Clause-3.1.4	IEC 60950-1
		Beads and ceramic insulators Clause-3.1.5	IEC 60950-1
		Screws for electrical contact pressure Clause-3.1.6	IEC 60950-1
		Insulating materials in electrical connections Clause-3.1.7	IEC 60950-1
		Self-tapping and spaced thread screws Clause-3.1.8	IEC 60950-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 10 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirements	Termination of conductors Clause- 3.1.9	IEC 60950-1
		Sleeving on wiring Clause-3.1.10	IEC 60950-1
		Connection to a mains supply Clause-3.2	IEC 60950-1
		Wiring terminals for connection of external conductors Clause-3.3	IEC 60950-1
		Disconnection from the mains supply Clause-3.4	IEC 60950-1
		Interconnection of equipment Clause-3.5	IEC 60950-1
		Stability Clause- 4.1	IEC 60950-1
		Mechanical Strength Clause-4.2	IEC 60950-1
		Design and construction Clause-4.3	IEC 60950-1
		Handles and manual controls Clause- 4.3.2	IEC 60950-1
		Adjustable controls Clause-4.3.3	IEC 60950-1
		Securing of parts Clause-4.3.4	IEC 60950-1
		Connection by plugs and sockets Clause-4.3.5	IEC 60950-1
		Direct plug-in equipment Clause-4.3.6	IEC 60950-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 11 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirements	Heating elements in earthed equipment Clause-4.3.7	IEC 60950-1
		Batteries Clause-4.3.8	IEC 60950-1
		Oil and grease Clause-4.3.9	IEC 60950-1
		Dust, powders, liquids and gases Clause-4.3.10	IEC 60950-1
		Containers for liquids or gases Clause-4.3.11	IEC 60950-1
		Protection against hazardous moving parts Clause-4.4	IEC 60950-1
		Thermal requirements Clause-4.5	IEC 60950-1
		Openings in enclosures Clause-4.6	IEC 60950-1
		Resistance to Fire Clause-4.7	IEC 60950-1
		Electrical requirements and simulated abnormal conditions Clause- 5	IEC 60950-1
		Electric strength Clause- 5.2	IEC 60950-1
		Abnormal operating and fault conditions Clause-5.3	IEC 60950-1
		Connection to telecommunication networks Clause- 6	IEC 60950-1

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Certificate Number: TEC/MRA/CAB/IND-D/106 **Page 12 of 87**

Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirements	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment Clause-6.1	IEC 60950-1
		Protection of equipment users from over voltages on telecommunication networks Clause-6.2	IEC 60950-1
		Protection of the telecommunication wiring system from overheating Clause-6.3	IEC 60950-1
		Connection to cable distribution systems Clause-7	IEC 60950-1
		Test for Resistance to Heat and Fire Annex A	IEC 60950-1
		Motor Tests under Abnormal Conditions Annex B	IEC 60950-1
		Transformers Annex C	IEC 60950-1
		Measuring Instrument for Touch Current Tests Annex D	IEC 60950-1
		Temperature Rise of a winding Annex E	IEC 60950-1
		Measurement of Clearances and Creepage Distances Annex F	IEC 60950-1
		Alternate Method for Determining Minimum Clearances Annex G	IEC 60950-1

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirements	Normal Load Conditions for Some Type of Electrical Business Equipment Annex L	IEC 60950-1
		Criteria for Telephone Ringing Signals Annex M	IEC 60950-1
		Impulse Test Generators Annex N	IEC 60950-1
		Voltages Dependent Resistors (VDRs) Annex Q	IEC 60950-1
		Procedure for Impulse Testing Annex S	IEC 60950-1
		Guidance on Protection against Ingress of Water Annex T	IEC 60950-1
		AC Power Distribution Systems Annex V	IEC 60950-1
		Summation of Touch Current Annex W	IEC 60950-1
		Maximum Heating Effect in Transformer Tests Annex X	IEC 60950-1
		Over voltages Categories Annex Z	IEC 60950-1
		Mandrel Test Annex AA	IEC 60950-1
		Requirement for the Mounting Means of Rack-Mounted Equipment Annex DD	IEC 60950-1
		Household and Home/Office/ Document/ Media Shredders Annex EE	IEC 60950-1

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
3	**Standard for Environmental Testing of Telecommunication Equipment**	Low Temperature (Cold Cycle) Test No. 1	QM-333
		High Temperature (Dry Heat Cycle) Test No. 2	QM-333
		Tropical Exposure (Damp Heat Cyclic) Test No. 3	QM-333
		Rapid Temperature Cycle Test No. 4	QM-333
		Damp Heat (Steady State) Test No. 5	QM-333
		Vibration Test Test No. 6	QM-333
		Sealing (Gas tightness)/ High Altitude Test No. 7	QM-333
		Water Immersion Test Test No. 8	QM-333
		Drop Test Test No.10	QM-333
		Fall Test Test No. 12	QM-333
		Bump Test Test No. 13	QM-333
4	**Electromagnetic Compatibility Standard for Telecommunication Equipment**	Conducted Emission Test CISPR 11	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission Test CISPR 32	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission Test - Electrical Appliances CISPR14-1	TEC/SD/DD/EMC-221/05/OCT-16

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Electromagnetic Compatibility Standard for Telecommunication Equipment	Radiated Emission Test CISPR 11	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission Test CISPR 32	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission Test - Electrical Appliances CISPR14- 1	TEC/SD/DD/EMC-21/05/OCT-16
		Immunity To AC Voltage Dips And Short Interruptions & Voltage Variations Immunity Test IEC: 61000-4-11	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity To AC Voltage Dips And Short Interruptions Voltage Variations Immunity Test IEC: 61000-4-34	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity To DC Voltage Dips And Short Interruptions Voltage Variations Immunity Test IEC:61000-4-29	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity To Electrostatic Discharge IEC:61000-4-2	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity To Electrical Fast Transients (Burst) IEC:61000-4-4	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity To RF Radiated Susceptibility Test IEC:61000-4-3	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity To Surges IEC:61000-4-5	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity To Conducted RF Susceptibility Test IEC:61000-4-6	TEC/SD/DD/EMC-21/05/OCT-16

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
5	**Equipments Operating in 2.4 GHz and 5 GHz Band**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC59432407
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC59432407
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC59432407
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC59432407
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC59432407
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC59432407
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC59432407
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC59432407

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipments Operating in 2.4 GHz and 5 GHz Band	**Interface: Wi-Fi**	Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC59432407
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC59432407
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC59432407
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC59432407
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC59432407
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC59432407
			Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC59432407
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC59432407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipments Operating in 2.4 GHz and 5 GHz Band	**Interface: Wi-Fi**	Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC59432407
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC59432407
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC59432407
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC59432407
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC59432407
			Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC59432407
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC59432407
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC59432407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipments Operating in 2.4 GHz and 5 GHz Band	**Interface: Wi-Fi**	Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC59432407
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC59432407
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC59432407
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC59432407
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC59432407
			Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC59432407
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC59432407
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC59432407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipments Operating in 2.4 GHz and 5 GHz Band	**Interface: Wi-Fi**	Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC59432407
6	**HF Radio**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC54372501
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC54372501
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC54372501
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC54372501
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC54372501
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC54372501
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC54372501

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	HF Radio	**Interface: Wi-Fi**	Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC54372501
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC54372501
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC54372501
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC54372501
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC54372501
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC54372501
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC54372501
			Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC54372501

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	HF Radio	**Interface: Wi-Fi**	RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC54372501
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC54372501
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC54372501
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC54372501
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC54372501
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC54372501
			Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC54372501
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC54372501

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	HF Radio	**Interface: Wi-Fi**	Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC54372501
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC54372501
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC54372501
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC54372501
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC54372501
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC54372501
			Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC54372501
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC54372501

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	HF Radio	**Interface: Wi-Fi**	User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC54372501
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC54372501
7	**IoT Gateway**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC24492408
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC24492408
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC24492408
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC24492408
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC24492408
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	**Interface: Wi-Fi**	Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC24492408
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC24492408
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC24492408
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC24492408
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC24492408
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC24492408
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC24492408
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC24492408

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	**Interface: Wi-Fi**	Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC24492408
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC24492408
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC24492408
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC24492408
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC24492408
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC24492408
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC24492408

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	**Interface: Wi-Fi**	Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC24492408
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC24492408
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC24492408
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC24492408
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC24492408
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC24492408
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC24492408
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	**Interface: Wi-Fi**	Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC24492408
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC24492408
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC24492408
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC24492408
		Interface: LTE or LTE-A	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC24492408
			Maximum Output Power ETSI EN 301 908-13 (LTE) Clause- 4.2.2	TEC ER No. TEC24492408
			Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC24492408
			Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause -4.2.12	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	**Interface: LTE or LTE-A**	Receiver Spurious Emission EN 301 908-13 (LTE) Clause 4.2.10)	TEC ER No. TEC24492408
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC24492408
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC24492408
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-2 (UMTS) Clause-4.2.6	TEC ER No. TEC24492408
			Receiver Reference Sensitivity Level ETSI EN 301 908-2 (UMTS) Clause-4.2.13	TEC ER No. TEC24492408
			Receiver Spurious Emission ETSI EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC24492408
			Transmitter Maximum Output Power ETSI EN 301 908-2 (UMTS) Clause-4.2.2	TEC ER No. TEC24492408
			Transmitter Minimum Output Power ETSI EN 301 908-2 (UMTS) Clause 4.2.5	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	**Interface: WCDMA or HSPA**	Transmitter Spectrum Emissions Mask ETSI EN 301 908-2 (UMTS) Clause 4.2.3	TEC ER No. TEC24492408
			Transmitter Spurious Emissions ETSI EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC24492408
8	**IP Multimedia Conferencing Equipment**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC34622401
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC34622401
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC34622401
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC34622401
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC34622401
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC34622401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IP Multimedia Conferencing Equipment	**Interface: Wi-Fi**	Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC34622401
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC34622401
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC34622401
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC34622401
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC34622401
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC34622401
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC34622401
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC34622401

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IP Multimedia Conferencing Equipment	**Interface: Wi-Fi**	Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC34622401
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC34622401
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC34622401
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC34622401
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC34622401
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC34622401
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC34622401

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SCOPE OF DESIGNATION
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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IP Multimedia Conferencing Equipment	**Interface: Wi-Fi**	Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC34622401
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC34622401
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC34622401
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC34622401
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC34622401
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC34622401
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC34622401
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC34622401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IP Multimedia Conferencing Equipment	**Interface: Wi-Fi**	Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC34622401
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC34622401
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC34622401
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC34622401
		Interface: LTE or LTE-A	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC34622401
			Maximum Output Power ETSI EN NFC-13 (LTE) Clause- 4.2.2	TEC ER No. TEC34622401
			Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC34622401
			Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause -4.2.12	TEC ER No. TEC34622401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IP Multimedia Conferencing Equipment	**Interface: LTE or LTE-A**	Receiver Spurious Emission ETSI EN 301 908-13 (LTE) Clause 4.2.10)	TEC ER No. TEC34622401
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC34622401
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC34622401
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-2 (UMTS) Clause-4.2.6	TEC ER No. TEC34622401
			Receiver Reference Sensitivity Level ETSI EN 301 908-2 (UMTS) Clause-4.2.13	TEC ER No. TEC34622401
			Receiver Spurious Emission ETSI EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC34622401
			Transmitter Maximum Output Power ETSI EN 301 908-2 (UMTS) Clause-4.2.2	TEC ER No. TEC34622401
			Transmitter Minimum Output Power ETSI EN 301 908-2 (UMTS) Clause 4.2.5	TEC ER No. TEC34622401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IP Multimedia Conferencing Equipment	**Interface: WCDMA or HSPA**	Transmitter Spectrum Emissions Mask ETSI EN 301 908-2 (UMTS) Clause 4.2.3	TEC ER No. TEC34622401
			Transmitter Spurious Emissions ETSI EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC34622401
9	**Mobile Radio Trunking System**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC56782407
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC56782407
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC56782407
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC56782407
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC56782407
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC56782407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile Radio Trunking System	**Interface: Wi-Fi**	Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC56782407
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC56782407
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC56782407
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC56782407
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC56782407
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC56782407
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC56782407
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC56782407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile Radio Trunking System	**Interface: Wi-Fi**	Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC56782407
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC56782407
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC56782407
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC56782407
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC56782407
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC56782407
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC56782407

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile Radio Trunking System	**Interface: Wi-Fi**	Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC56782407
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC56782407
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC56782407
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC56782407
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC56782407
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC56782407
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC56782407
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC56782407

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile Radio Trunking System	**Interface: Wi-Fi**	Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC56782407
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC56782407
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC56782407
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC56782407
10	**Mobile User Equipment**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC47722408
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC47722408
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC47722408
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC47722408

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SCOPE OF DESIGNATION
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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile User Equipment	**Interface: Wi-Fi**	Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC47722408
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC47722408
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC47722408
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC47722408
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC47722408
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC47722408
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC47722408
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC47722408
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC47722408

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile User Equipment	**Interface: Wi-Fi**	Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC47722408
			Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC47722408
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC47722408
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC47722408
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC47722408
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC47722408
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile User Equipment	**Interface: Wi-Fi**	Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC47722408
			Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC47722408
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC47722408
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC47722408
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC47722408
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC47722408
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC47722408
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile User Equipment	**Interface: Wi-Fi**	Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC47722408
			Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC47722408
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC47722408
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC47722408
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC47722408
		Interface: LTE or LTE-A	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC47722408
			Maximum Output Power ETSI EN 301 908-13 (LTE) Clause- 4.2.2	TEC ER No. TEC47722408
			Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile User Equipment	**Interface: LTE or LTE-A**	Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause-4.2.12	TEC ER No. TEC47722408
			Receiver Spurious Emission 3GPP TS 36.521-1 Clause 7.9/EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC47722408
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC47722408
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC47722408
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-2 (UMTS) Clause-4.2.6	TEC ER No. TEC47722408
			Receiver Reference Sensitivity Level ETSI EN 301 908-2 (UMTS) Clause-4.2.13	TEC ER No. TEC47722408
			Receiver Spurious Emission ETSI EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC47722408
			Transmitter Maximum Output Power ETSI EN 301 908-2 (UMTS) Clause-4.2.2	TEC ER No. TEC47722408

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile User Equipment	**Interface: WCDMA or HSPA**	Transmitter Minimum Output Power ETSI EN 301 908-2 (UMTS) Clause 4.2.5	TEC ER No. TEC47722408
			Transmitter Spectrum Emissions Mask ETSI EN 301 908-2 (UMTS) Clause 4.2.3	TEC ER No. TEC47722408
			Transmitter Spurious Emissions ETSI EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC47722408
11	**Point of Sale Devices**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC17672407
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC17672407
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC17672407
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC17672407
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC17672407

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Point of Sale Devices	**Interface: Wi-Fi**	Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC17672407
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC17672407
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC17672407
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC17672407
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC17672407
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC17672407
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC17672407
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC17672407
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Point of Sale Devices		Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC17672407
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC17672407
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC17672407
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC17672407
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC17672407
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC17672407
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC17672407

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Point of Sale Devices	**Interface: Wi-Fi**	Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC17672407
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC17672407
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC17672407
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC17672407
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC17672407
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC17672407
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC17672407
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Point of Sale Devices	**Interface: Wi-Fi**	Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC17672407
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC17672407
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC17672407
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC17672407
		Interface: LTE or LTE-A	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC17672407
			Maximum Output Power ETSI EN NFC-13 (LTE) Clause- 4.2.2	TEC ER No. TEC17672407
			Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC17672407
			Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause -4.2.12	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Point of Sale Devices	**Interface: LTE or LTE-A**	Receiver Spurious Emission ETSI EN 301 908-13 (LTE) Clause 4.2.10)	TEC ER No. TEC17672407
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC17672407
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC17672407
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-2 (UMTS) Clause-4.2.6	TEC ER No. TEC17672407
			Receiver Reference Sensitivity Level ETSI EN 301 908-2 (UMTS) Clause-4.2.13	TEC ER No. TEC17672407
			Receiver Spurious Emission ETSI EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC17672407
			Transmitter Maximum Output Power ETSI EN 301 908-2 (UMTS) Clause-4.2.2	TEC ER No. TEC17672407
			Transmitter Minimum Output Power ETSI EN 301 908-2 (UMTS) Clause 4.2.5	TEC ER No. TEC17672407

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Point of Sale Devices	**Interface: WCDMA or HSPA**	Transmitter Spectrum Emissions Mask ETSI EN 301 908-2 (UMTS) Clause 4.2.3	TEC ER No. TEC17672407
			Transmitter Spurious Emissions ETSI EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC17672407
12	**PON Family of Broadband Equipment**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC14762407
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC14762407
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC14762407
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC14762407
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC14762407
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC14762407

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SCOPE OF DESIGNATION
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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	PON Family of Broadband Equipment	**Interface: Wi-Fi**	Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC14762407
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC14762407
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC14762407
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC14762407
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC14762407
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC14762407
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC14762407
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC14762407

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SCOPE OF DESIGNATION
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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	PON Family of Broadband Equipment	**Interface: Wi-Fi**	Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC14762407
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC14762407
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC14762407
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC14762407
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC14762407
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC14762407
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC14762407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	PON Family of Broadband Equipment	**Interface: Wi-Fi**	Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC14762407
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC14762407
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC14762407
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC14762407
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC14762407
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC14762407
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC14762407
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC14762407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	PON Family of Broadband Equipment	**Interface: Wi-Fi**	Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC14762407
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC14762407
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC14762407
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC14762407
13	**Router**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC37682410
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC37682410
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC37682410
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC37682410

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	**Interface: Wi-Fi**	Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC37682410
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC37682410
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC37682410
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC37682410
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC37682410
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC37682410
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC37682410
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC37682410
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC37682410

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	**Interface: Wi-Fi**	Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC37682410
			Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC37682410
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC37682410
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC37682410
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC37682410
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC37682410
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC37682410

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	**Interface: Wi-Fi**	Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC37682410
			Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC37682410
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC37682410
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC37682410
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC37682410
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC37682410
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC37682410
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC37682410

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	**Interface: Wi-Fi**	Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC37682410
			Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC37682410
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC37682410
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC37682410
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC37682410
		Interface: LTE or LTE-A	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC37682410
			Maximum Output Power ETSI EN NFC-13 (LTE) Clause- 4.2.2	
			Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC37682410

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	**Interface: LTE or LTE-A**	Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause -4.2.12	TEC ER No. TEC37682410
			Receiver Spurious Emission ETSI EN 301 908-13 (LTE) Clause 4.2.10)	TEC ER No. TEC37682410
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC37682410
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC37682410
14	**Smart Camera**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC28822407
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC28822407
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC28822407
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	**Interface: Wi-Fi**	Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC28822407
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC28822407
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC28822407
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC28822407
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC28822407
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC28822407
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC28822407
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC28822407
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	**Interface: Wi-Fi**	Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC28822407
			Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC28822407
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC28822407
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC28822407
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC28822407
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC28822407
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC28822407

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	**Interface: Wi-Fi**	Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC28822407
			Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC28822407
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC28822407
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC28822407
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC28822407
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC28822407
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC28822407
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC28822407

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SCOPE OF DESIGNATION
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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	**Interface: Wi-Fi**	Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC28822407
			Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC28822407
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC28822407
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC28822407
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC28822407
		Interface: LTE or LTE-A	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC28822407
			Maximum Output Power ETSI EN NFC-13 (LTE) Clause- 4.2.2	
			Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	**Interface: LTE or LTE-A**	Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause -4.2.12	TEC ER No. TEC28822407
			Receiver Spurious Emission ETSI EN 301 908-13 (LTE) Clause 4.2.10)	TEC ER No. TEC28822407
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC28822407
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC28822407
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause-6.4/ EN 301 908-2 (UMTS) Clause-4.2.6	TEC ER No. TEC28822407
			Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause-6.2/ EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28822407
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8/ EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	**Interface: WCDMA or HSPA**	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause-5.2/ EN 301 908-2 (UMTS) Clause 4.2.2	TEC ER No. TEC28822407
			Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause-5.4.3/ EN 301 908-2 (UMTS) Clause-4.2.5	TEC ER No. TEC28822407
			Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause-5.9/ EN 301 908-2 (UMTS) Clause-4.2.3	TEC ER No. TEC28822407
			Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause-5.11/ EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC28822407
15	**Smart Electricity Meter**	**Interface: LTE or LTE-A**	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC28362408
			Maximum Output Power ETSI EN NFC-13 (LTE) Clause- 4.2.2	TEC ER No. TEC28362408
			Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC28362408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Electricity Meter	**Interface: LTE or LTE-A**	Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause -4.2.12	TEC ER No. TEC28362408
			Receiver Spurious Emission ETSI EN 301 908-13 (LTE) Clause 4.2.10)	TEC ER No. TEC28362408
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC28362408
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC28362408
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause-6.4/ EN 301 908-2 (UMTS) Clause-4.2.6	TEC ER No. TEC28362408
			Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause-6.2/ EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28362408
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8/ EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC28362408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Electricity Meter	**Interface: WCDMA or HSPA**	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause-5.2/ EN 301 908-2 (UMTS) Clause 4.2.2	TEC ER No. TEC28362408
			Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause-5.4.3/ EN 301 908-2 (UMTS) Clause-4.2.5	TEC ER No. TEC28362408
			Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause-5.9/ EN 301 908-2 (UMTS) Clause-4.2.3	TEC ER No. TEC28362408
			Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause-5.11/ EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC28362408
16	**Smart Watch**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC28982407
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC28982407
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	**Interface: Wi-Fi**	Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC28982407
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC28982407
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC28982407
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC28982407
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC28982407
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC28982407
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC28982407
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	**Interface: Wi-Fi**	Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC28982407
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC28982407
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC28982407
			Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC28982407
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC28982407
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC28982407
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC28982407
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC28982407

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	**Interface: Wi-Fi**	Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC28982407
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC28982407
			Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC28982407
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC28982407
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC28982407
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC28982407
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC28982407
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	**Interface: Wi-Fi**	Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC28982407
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC28982407
			Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC28982407
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC28982407
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC28982407
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC28982407
		Interface: LTE or LTE-A	Maximum Output Power 3GPP TS 36. 521-1 Clause-6.2.2/ EN 301 908-13 (LTE) Clause-4.2.2	TEC ER No. TEC28982407
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause-7.5/ EN 301 908-13 (LTE) Clause-4.2.6	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	**Interface: LTE or LTE-A**	Receiver Reference Sensitivity Level 3GPP TS 36.521-1 Clause-7.3/EN 301 908-13 (LTE) Clause-4.2.12	TEC ER No. TEC28982407
			Receiver Spurious Emission 3GPP TS 36.521-1 Clause - 7.9/EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC28982407
			Spectrum Emissions Mask 3GPP TS 36.521-1 Clause-6.2.2.1/ EN 301 908-13 (LTE) Clause-4. 2.3	TEC ER No. TEC28982407
			Spurious Emissions 3GPP TS 36.521- 1 Clause - 6.6.3.1, 6.6.3.2, 6.6.3.3/ EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC28982407
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause-6.4/ EN 301 908-2 (UMTS) Clause-4.2.6	TEC ER No. TEC28982407
			Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause-6.2/ EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	**Interface: WCDMA or HSPA**	Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8/ EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC28982407
			Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause-5.2/ EN 301 908-2 (UMTS) Clause 4.2.2	TEC ER No. TEC28982407
			Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause-5.4.3/ EN 301 908-2 (UMTS) Clause-4.2.5	TEC ER No. TEC28982407
			Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause-5.9/ EN 301 908-2 (UMTS) Clause-4.2.3	TEC ER No. TEC28982407
			Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause-5.11/ EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC28982407
17	**Tracking Device**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC28732408
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC28732408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	**Interface: Wi-Fi**	Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC28732408
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC28732408
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC28732408
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC28732408
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC28732408
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC28732408
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC28732408
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC28732408

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	**Interface: Wi-Fi**	Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC28732408
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC28732408
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC28732408
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC28732408
			Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC28732408
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC28732408
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC28732408
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC28732408

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SCOPE OF DESIGNATION
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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	**Interface: Wi-Fi**	Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC28732408
			Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC28732408
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC28732408
			Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC28732408
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC28732408
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC28732408
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC28732408
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC28732408

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Validity: 05/08/2025 to 04/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	**Interface: Wi-Fi**	Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC28732408
			Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC28732408
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC28732408
			Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC28732408
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC28732408
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC28732408
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC28732408
		Interface: LTE or LTE-A	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC28732408
			Maximum Output Power ETSI EN NFC-13 (LTE) Clause- 4.2.2	TEC ER No. TEC28732408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	**Interface: LTE or LTE-A**	Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC28732408
			Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause -4.2.12	TEC ER No. TEC28732408
			Receiver Spurious Emission ETSI EN 301 908-13 (LTE) Clause 4.2.10)	TEC ER No. TEC28732408
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC28732408
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC28732408
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause-6.4/ EN 301 908-2 (UMTS) Clause-4.2.6	TEC ER No. TEC28732408
			Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause-6.2/EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28732408
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8/ EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC28732408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	**Interface: WCDMA or HSPA**	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause-5.2/ EN 301 908-2 (UMTS) Clause 4.2.2	TEC ER No. TEC28732408
			Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause-5.4.3/ EN 301 908-2 (UMTS) Clause-4.2.5	TEC ER No. TEC28732408
			Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause-5.9/ EN 301 908-2 (UMTS) Clause-4.2.3	TEC ER No. TEC28732408
			Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause-5.11/ EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC28732408
18	**VHF UHF Radio System Equipment**	**Interface: Wi-Fi**	RF Output Power ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.2 or 4.3.2.2	TEC ER No. TEC58432407
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.3	TEC ER No. TEC58432407
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.3 or 4.3.2.4	TEC ER No. TEC58432407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	VHF UHF Radio System Equipment	**Interface: Wi-Fi**	Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.4	TEC ER No. TEC58432407
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.5	TEC ER No. TEC58432407
			Medium Utilization ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.6 or 4.3.2.5	TEC ER No. TEC58432407
			Adaptivity ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.7 or 4.3.2.6	TEC ER No. TEC58432407
			Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.8 or 4.3.2.7	TEC ER No. TEC58432407
			Transmitter Unwanted Emissions in the OOB Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.9 or 4.3.2.8	TEC ER No. TEC58432407
			Transmitter Unwanted Emissions in the Spurious Domain ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.9 or 4.3.1.10	TEC ER No. TEC58432407
			Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.2.10 or 4.3.1.11	TEC ER No. TEC58432407

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	VHF UHF Radio System Equipment	**Interface: Wi-Fi**	Receiver Blocking ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.12 or 4.3.2.11	TEC ER No. TEC58432407
			Geo-location Capability ETSI EN 300 328 V2.2.2 (2019) Clause-4.3.1.13 or 4.3.2.12	TEC ER No. TEC58432407
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.1	TEC ER No. TEC58432407
			Nominal, and Occupied, Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.2	TEC ER No. TEC58432407
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 (2017) Clause-4.2.3	TEC ER No. TEC58432407
			Transmitter Unwanted Emissions Within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.2	TEC ER No. TEC58432407
			Dynamic Frequency Selection ETSI EN 301 893 V2.1.1 Clause-4.2.6	TEC ER No. TEC58432407
			Adaptivity ETSI EN 301 893 V2.1.1 Clause-4.2.7	TEC ER No. TEC58432407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	VHF UHF Radio System Equipment	**Interface: Wi-Fi**	Receiver Blocking ETSI EN 301 893 V2.1.1 Clause-4.2.8	TEC ER No. TEC58432407
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause-4.2.4.1	TEC ER No. TEC58432407
			Receiver spurious emissions ETSI EN 301 893 V2.1.1 Clause-4.2.5	TEC ER No. TEC58432407
			User Access Restrictions ETSI EN 301 893 V2.1.1 Clause-4.2.9	TEC ER No. TEC58432407
			Geo-Location Capability ETSI EN 301 893 V2.1.1 Clause-4.2.10	TEC ER No. TEC58432407
			Designation of Centre Frequencies and Frequency Error ETSI EN 302 502 V2.1.1 Clause-4.2.1	TEC ER No. TEC58432407
			Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause-4.2.2	TEC ER No. TEC58432407
			Transmitter Power Control ETSI EN 302 502 V2.1.1 Clause-4.2.4	TEC ER No. TEC58432407

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Laboratory Name: **M/s TUV SUD South Asia Private Limited, Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru- 562149, India**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	VHF UHF Radio System Equipment	**Interface: Wi-Fi**	Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause-4.2.6	TEC ER No. TEC58432407
			Receiver Blocking ETSI EN 302 502 V2.1.1 Clause-4.2.7	TEC ER No. TEC58432407
			Transmitter unwanted emission outside the 5725MHz to 5875MHz ETSI EN 302 502 Clause-4.2.3.1	TEC ER No. TEC58432407
			Receiver Spurious Emissions ETSI EN 302 502 V2.1.1 Clause-4.2.5	TEC ER No. TEC58432407
			User Access Restrictions ETSI EN 302 502 V2.1.1 Clause-4.2.8	TEC ER No. TEC58432407
			Frequency for Wi-Fi Equipments (DoT WPC GSR No. 45(E) 1048(E). Annex-G1)	TEC ER No. TEC58432407
19	**LAN Switch**	**Interface: LTE or LTE-A**	Operating Frequency for LTE or LTE-A Int. NFAP Annex-F	TEC ER No. TEC37942410
			Maximum Output Power ETSI EN NFC-13 (LTE) Clause- 4.2.2	TEC ER No. TEC37942410

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	LAN Switch	**Interface: LTE or LTE-A**	Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-1(LTE) Clause-4.2.6	TEC ER No. TEC37942410
			Receiver Reference Sensitivity Level ETSI EN 301 908-13 (LTE) Clause -4.2.12	TEC ER No. TEC37942410
			Receiver Spurious Emission ETSI EN 301 908-13 (LTE) Clause 4.2.10)	TEC ER No. TEC37942410
			Spectrum Emissions Mask ETSI EN 301 908-13 (LTE) Clause- 4. 2.3	TEC ER No. TEC37942410
			Spurious Emissions ETSI EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC37942410
		Interface: WCDMA or HSPA	Receiver Adjacent Channel Selectivity (ACS) ETSI EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC37942410
			Receiver Reference Sensitivity Level ETSI EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC37942410
			Receiver Spurious Emission ETSI EN 301 908-2 (UMTS) Clause-4. 2.10	TEC ER No. TEC37942410

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	LAN Switch	**Interface: WCDMA or HSPA**	Transmitter Maximum Output Power ETSI EN 301 908-2 (UMTS) Clause- 4.2.2	TEC ER No. TEC37942410
			Transmitter Minimum Output Power ETSI EN 301 908-2 (UMTS) Clause- 4.2.5	TEC ER No. TEC37942410
			Transmitter Spectrum Emissions Mask ETSI EN 301 908-2 (UMTS) Clause- 4.2.3	TEC ER No. TEC37942410
			Transmitter Spurious Emissions ETSI EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC37942410

Digitally signed by
Rajeev Ranjan
Date: 05-08-2025
12:51:30

AD (CA-I), TEC

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