



Newsletter

2025 Q3

Digital & Product Solutions
Business Line **EMC & RF**

innovating safety & security



Europe (EU-27 and UK)

Radio Equipment Directive Harmonised Standard List updated on May 14, 2025

Harmonised Standard List has been updated recently. Tables below highlight the main updates, see full list in URL below for further details.

Test Standards Versions Updated:

Test Standard	Title	Comments
EN 301 893 V2.2.1	5 GHz WAS/RLAN	Supersedes V2.1.1. Transition period up to 2028-05-15. New version includes the following updates: - Add technical requirements and methods of measurement for U-NII-3 band (5.725 – 5.850 MHz). - Add Adjacent Channel Selectivity Test Case. - Add User Access Restrictions Test Case. - Update Transmitter Unwanted Emissions to accommodate flexible use of spectrum for multi-channel operation and minimize interference. - Update Energy Detection Threshold (EDT) requirements in Adaptivity Test Case for Frame Based Equipment (FBE) and Load Based Equipment (LBE). - Remove the possibility of compliance by declaration for the Channel Access Mechanism and Maximum Channel Occupancy Time (COT).
EN 303 687 V1.1.1	6 GHz WAS/RLAN	New standard harmonised. Specify technical requirements for U-NII-5 band (5.945 – 6.425 MHz).
EN 301 908-3 V15.0.0	IMT cellular networks Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	Supersedes V13.1.1. Transition period up to 2026-11-15.
EN 301 908-13 V13.3.1	IMT cellular networks Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	Supersedes V13.2.1. Transition period up to 2026-11-15. New version includes the following updates: - Add Bands 41, 72, 87 and 88. - Add LTE Carrier Aggregation CA_8-41, CA_41-41, CA_41-42, CA_41-46 and CA_3-41-42 bands combinations. - Include additional spurious emissions limits for frequency range 470 to 694 MHz to protect Broadband Public Protection and Disaster Relief (BB-PPDR) and Digital Terrestrial Television (DTT) operations. - Add requirements for Transmitter adjacent channel leakage power ratio for intraband non-contiguous Carrier Aggregation.



Test Standard	Title	Comments
EN 301 908-23 V15.1.1	IMT cellular networks Part 23: Active Antenna System (AAS) Base Station (BS)	New standard harmonised.
EN 301 908-24 V15.1.1	IMT cellular networks Part 24: New Radio (NR) Base Stations (BS)	New standard harmonised.
EN 301 908-25 V15.1.1	IMT cellular networks Part 25: New Radio (NR) User Equipment (UE)	New standard harmonised.
EN 301 406-2 V3.1.1	Digital Enhanced Cordless Telecommunications (DECT) Part 2: DECT-2020 NR	New standard harmonised.
EN 302 064 V2.2.1	Wireless Digital Video Links operating in the 1,3 GHz to 50 GHz frequency band	Supersedes EN 302 064-2 V1.1.1. Transition period up to 2026-11-15. New standard includes the following updates: - Change Maximum allowable channel bandwidth requirements and necessary bandwidth limits. - Add new Receiver Sensitivity in Gaussian channel requirement. - Add new Blocking or desensitization requirement. - Add new Adjacent channel selectivity requirement. - Add channel occupancy test to limit channel bandwidth. - Add a new transmitter category with enhanced ACPR performance.
EN 303 661 V1.1.1	Short Range Devices (SRD) Ground Based Synthetic Aperture Radar (GBSAR) in the frequency range 17,1 GHz to 17,3 GHz and High Definition Ground Based Synthetic Aperture Radar (HD-GBSAR) in the frequency range 76 GHz to 77 GHz	New standard harmonised.
EN 303 753 V1.1.1	Wideband Data Transmission Systems (WDTs) for Mobile and Fixed Radio Equipment operating in the 57 - 71 GHz band	New standard harmonised.
EN 304 220-1 V1.2.1	Wideband data transmission SRD Part 1: Wideband data transmission devices: network access points operating in the frequency bands 863 MHz to 868 MHz and 915,8 MHz to 919,4 MHz	New standard harmonised.
EN 304 220-2 V1.2.1	Wideband data transmission SRD Part 2: Wideband data transmission devices: terminal node operating in the frequency bands 863 MHz to 868 MHz and 915,8 MHz to 919,4 MHz	New standard harmonised.



Test Standard	Title	Comments
EN 301 489-3 V2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	New standard harmonised.
EN 301 489-17 V3.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 17: Specific conditions for Broadband and Wideband Data Transmission Systems	New standard harmonised. New version includes the following updates with regard to EN 301 489-17 v3.2.2 (previous version not harmonised): - Removal of flicker and fluctuations requirements as these are covered by EN 61000-3-2 and EN 61000-3-3. - Scope increased to cover equipment operating in the 57 GHz to 71 GHz band that falls with the scope of article 3.2 standards ETSI EN 303 722. - Scope and title amended to cover both Broadband and Wideband equipment. - Scope of radiated emissions requirements expanded to cover enclosure port of radio equipment. - Annex A aligned with content of standard.
EN 301 489-19 V2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data	New standard harmonised.
EN 301 489-28 V2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 28: Specific conditions for wireless digital video links	New standard harmonised.
EN 301 489-52 V1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment	Supersedes V1.2.1. Transition period up to 2026-11- 15. New version includes in the scope 5G FR2.
EN 301 489-54 V1.1.1	ElectroMagnetic Compatibility (EMC)standard for radio equipment and services Part 54: Specific conditions for fixed ground based aeronautical and meteorological radars	

Additional Information:

- Amendment of 14 May 2025 to Implementing Decision (EU) 2022/2191: https://eur-lex.europa.eu/eli/dec_impl/2025/893/oj/eng



- Consolidated Harmonised Standard List (PDF): <https://webgate.ec.europa.eu/circabc-ewpp/d/d/workspace/SpacesStore/8e7cd43d-baab-4450-8f0c-7c9785e75f2c/download>
- Consolidated Harmonised Standard List (XLS): https://single-market-economy.ec.europa.eu/document/download/1b07bf21-0158-466f-9865-2fcb3bf67d6_en?filename=SummaryListForLegislation_generated%2013.10.2025.xlsx

ETSI RED Workprogramme New Standard Versions Updates

ETSI is continuously evolving the EMC/RF Test Standards, table below summarizes the latest updates for most common Test Standards during Q2/2025:

Test Standard	Title	Comments
Draft EN 300 328 V3.0.1_0.0.3	Wideband transmission systems Data transmission equipment operating in the 2,4 GHz band	Early Draft. Test Standard development work is just starting.
Draft EN 300 440-1 V3.1.1_0.0.8	Short Range Devices (SRD) operating in 1 GHz to 40 GHz Part 1: Radiocommunication equipment operating in the frequency range 2,4 GHz to 2,4835 GHz and 5,725 GHz to 5,875 GHz;	Early Draft. Test Standard development work is progressing.
Draft EN 300 440-2 V3.1.1_0.1.7	Short Range Devices (SRD) operating in 1 GHz to 40 GHz Part 2: Radiodetermination equipment for location tracking applications operating in the frequency range 2,4 GHz to 2,4835 GHz	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 300 440-3 V1.1.1_0.0.5	Short Range Devices (SRD) Harmonised Standard for access to radio spectrum for Intrusion radiodetermination equipment operating in the frequency range 1 GHz to 40 GHz	Early Draft. Test Standard development work is progressing.
Draft EN 300 422-1 V2.3.1_0.0.4	Wireless Microphones Audio PMSE up to 3 GHz Part 1: Audio PMSE Equipment up to 3 GHz	Early Draft. Test Standard development work is just starting.
Draft EN 301 406-1 V3.1.20	Digital Enhanced Cordless Telecommunications (DECT) Part 1: DECT, DECT Evolution and DECT ULE	Stable Draft. European Commission first assessment completed and currently addressing the comments.
Draft EN 301 783 V0.0.17	Commercially available amateur radio equipment	Early Draft. Test Standard development work is progressing.
Draft EN 301 908-23 V17.1.1_0.0.2	IMT cellular networks Part 23: Active Antenna System (AAS) Base Station (BS);	Early Draft. Test Standard development work is just starting.
Draft EN 301 908-24 V17.1.1_0.0.3	IMT cellular networks Part 24: New Radio (NR) Base Stations (BS)	Early Draft. Test Standard development work is just starting.
Draft EN 301 908-25 V17.1.1_0.0.1	IMT cellular networks Part 25: New Radio (NR) User Equipment (UE)	Early Draft. Test Standard development work is just starting.



Draft EN 301 908-26 V1.1.1_0.0.5	IMT cellular networks Part 26: Aerial User Equipment (UE)	Early Draft. Test Standard development work is just starting.
Draft ETSI EN 304 122 V1.1.1_0.0.4	Satellite Earth Stations & Systems (SES) NR-NTN (New Radio Non-Terrestrial Networks) capable User Equipment operating in Frequency bands below 7,125 GHz	Early Draft. Test Standard development work is just starting. New standard for 5G NTN for bands FDD n255 and FDD n256.
Draft EN 302 065-2-5 V1.1.1_0.1.4	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 2: Ultra Wide Band location tracking devices Sub-part 5: Requirements for enhanced indoor devices within 6,0 GHz to 8,5 GHz	Stable Draft. Under European Commission first assessment.
EN 302 729-1 V3.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 1: Level Probing Radar (LPR) equipment operating in the frequency ranges 6 GHz to 8,5 GHz, 24,05 GHz to 26,5 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz for strictly vertical downward installation	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU.
Draft EN 302 729-2 V3.1.1_0.1.7	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 2: Level Probing Radar (LPR) equipment operating in the frequency range 75 GHz to 85 GHz for tilted downward installation	Stable Draft. European Commission first assessment completed and comments already addressed.
Draft EN 303 940-1 V1.1.1_0.1.2	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 1: Millimeter Wave Security Scanners operating in 69,8-80,5 GHz	Stable Draft. Ready to send it to European Commission for first assessment.
Draft EN 302 194-1 V2.2.1_0.0.34	Navigational radars used on inland waterways Part 1: Magnetron Radars	Stable Draft. European Commission first assessment completed and currently addressing the comments.
Draft EN 302 326-2 V2.2.1_0.0.9	Fixed Radio Systems Multipoint Equipment and Antennas Part 2: Harmonised Standard for access to radio spectrum	Stable Draft. European Commission first assessment completed and comments already addressed.
EN 302 480 V3.1.1	Mobile Communication On Board Aircraft (MCOBA) systems	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU.
Draft EN 303 354 V1.1.9	Amplifiers and active antennas for TV broadcast reception in domestic premises	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.



EN 303 659 V1.1.1	Short Range Devices (SRD) in Data Networks Radio equipment to be used in the frequency ranges 865 MHz to 868 MHz and 915 MHz to 919,4 MHz	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU.
Draft EN 303 687 V1.1.7	6 GHz WAS/RLAN	Early Draft. Test Standard development work is just starting.
EN 303 851 V1.1.1	Radio Frequency Identification Equipment operating in the band 2 446 MHz to 2 454 MHz with power levels up to a maximum of 500 mW e.i.r.p. and up to a maximum of 4 W e.i.r.p.	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU.
Draft EN 302 858 V3.1.1_0.0.1	Short Range Devices; Transport and Traffic Telematics (TTT) Radar equipment operating in the 24,05 GHz to 24,25 GHz range	Early Draft. Test Standard development work is just starting.
Draft EN 303 867 V1.1.1_0.0.4	Rail telecommunications (RT) Urban rail radiocommunications equipment operating in the 5 875 MHz to 5 935 MHz frequency band	Early Draft. Test Standard development work is just starting.
Draft EN 303 699 V1.1.10	Satellite Earth Stations and Systems (SES) Fixed earth stations communicating with non-geostationary satellite systems in the 20 GHz and 30 GHz FSS bands	Early Draft. Test Standard development work is just starting.
Draft EN 304 118 V1.1.1_0.0.2	Medical Implantable Wireless Power Transmission (WPT) equipment	Early Draft. Test Standard development work is just starting.
Draft EN 305 550-3 V1.1.1_0.0.8	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 3: Radiodetermination devices for fixed, mobile and portable generic applications within 57 GHz to 64 GHz	Early Draft. Test Standard development work is just starting.
Draft EN 305 550-4 V1.1.1_0.0.4	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 4: Radiodetermination equipment for vehicular applications operating within 57 GHz to 64 GHz	Early Draft. Test Standard development work is just starting.
EN 305 550-6 V1.2.1	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 6: Specific radiodetermination applications - Tank Level Probing Radar (TLPR) and Level Probing Radar (LPR) equipment operating in the frequency ranges 116 GHz to 148,5 GHz; 167 GHz to 182 GHz and 231,5 GHz to 250 GHz	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU.



Draft EN 305 550-8 V1.1.1_0.0.1	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 8: exterior radiodetermination devices on vehicles within 122,25 GHz to 130 GHz and 134 GHz to 148,5 GHz	Early Draft. Test Standard development work is just starting.
Draft EN 305 550-9 V1.1.1_0.0.1	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 9: Radiodetermination for industrial applications (like RDI & RDI-S) equipment operating within 57 GHz to 64 GHz	Early Draft. Test Standard development work is just starting.
Draft EN 300 386 V2.2.10	Telecommunication network equipment Harmonised Standard for ElectroMagnetic Compatibility (EMC) requirements	Draft. European Commission first assessment received. Comments addressed and ready to initiate the Working Group approval process.
Draft EN 301 489-5 V2.2.9	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA)	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 301 489-9 V2.2.1_0.0.5	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio, in-ear monitoring and assistive listening devices	Stable Draft. Test Standard development work is progressing.
Draft EN 301 489-13 V2.1.1_0.0.14	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 301 489-50 V2.4.0	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 301 489-55 V1.1.1_0.0.17	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 55: Specific conditions for ground based equipment for air navigation operating in the frequency range 960 MHz to 1 215 MHz	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 301 489-56 V1.1.1_0.0.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 56: Specific conditions for ULP-AMI and ULP-AMI-P Harmonised Standard for ElectroMagnetic Compatibility	Early Draft. Test Standard development work is just starting.



Draft EN 301 843-2 V2.3.1_0.0.7	ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services Part 2: Specific conditions for VHF radiotelephone transmitters and receivers operating in the frequency range 156 MHz to 174 MHz	Stable Draft. European Commission first assessment completed and currently addressing the comments.
Draft EN 301 843-8 V1.1.1_0.0.9	ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services Part 8: Specific conditions for radio beacons and locating devices	Stable Draft. European Commission first assessment completed and currently addressing the comments.

Radio Equipment Directive Compliance Association (REDCA) Technical Guidance Notes (TGNs) #29 (Guidance related to NB EU-TEC updates) and #33 (RED as applied to vehicles) updated

TGN 29 – Guidance for Notified Bodies and manufacturers EU-type examination certificate maintenance has been updated in March 2025. New version includes a couple of important updates:

- **Clarification about the Validity and Expiration of the EU-TEC:** While the previous version implied continued EU-TEC validity unless withdrawn, the new version depicts conditions under which an EU-TEC may expire, including lack of corrective action by the manufacturer following changes in harmonized standards or the state of the art.
- **EU-TEC update initiated by Notified Body:** It clarifies that NBs must continuously monitor issued EU-TECs and notify manufacturers of any changes in applicable standards or essential requirements:
 - When **harmonised standards** were applied for all aspects of essential requirements covered by the EU-TEC and NB identifies the publication of new harmonized standards in the Official Journal of the European Union (OJEU), the NB should notify the manufacturer within approximately one month of the publication in OJEU and grant a transition period, which typically aligns with the withdrawal date of the superseded harmonized standard listed in the OJEU, to take the corrective actions to update the EU-TEC.
 - When using **non-harmonised standards** and/or other documents, such as draft standards, and they become harmonised in OJEU for the first time, then the NB itself must determine a reasonable transition period granted to the manufacturer (usually 18-24 months) to take the corrective actions to update the EU-TEC.

TGN 33 – Radio Equipment installed into Vehicles has been updated in June 2025. The scope of the TGN has been expanded to cover both type-approved and non-type-approved vehicles, whereas the previous version was focused more on general guidance for manufacturers and installers. New version clarifies the stakeholders' responsibilities:

- **Radio Equipment Manufacturer:** The risk assessment shall be based on the use of the radio equipment in a vehicle showing that the radio equipment, when it is installed in the



vehicle and it operates in combination with systems, parts or components of the vehicle (i.e. representative vehicle environment in which the radio equipment is intended to be used) will remain compliant with the RED essential requirements.

- **Vehicle Manufacturer:** The responsibilities of the vehicle manufacturer are dependent on (1) whether the radio equipment has been previously placed on the EU market or not, (2) whether the vehicle is subject to Vehicle Type Approval or not, and (3) how the radio equipment has been installed in the vehicle.
 - If the **radio equipment has been previously placed on the EU market**, the vehicle manufacturer needs to demonstrate or verify, by documenting, that the compliance of that radio equipment is not compromised when it functions, together with other systems/devices, in the vehicle. A risk assessment is the preferable option to carry out this activity.
 - If the **radio equipment has not been previously placed on the EU market** then the vehicle manufacturer is also the manufacturer of that radio equipment installed in the vehicle and therefore they must meet the applicable requirements of the RED (Article 10). Vehicle Manufacturer must perform a risk assessment (including additional testing, if necessary), verifying that the radio equipment, when it is installed in the vehicle and it operates in combination with systems, parts or components of the vehicle, is compliant with the RED essential requirements.
- **Radio Equipment Installer:** They must follow instructions provided by the original manufacturer of the radio equipment, do not modify the original performance, purpose or type of the radio equipment and install radio equipment into an environment in which it is intended to be used.

The new version clarifies that vehicle manufacturer or the radio equipment installer becomes the radio equipment manufacturer if (1) the relevant instructions that have been provided by the radio equipment manufacturer are not followed or (2) the original performance, purpose or type of the radio equipment is modified to such an extent that the compliance is impacted or (3) radio equipment is installed in an environment in which it is not intended to be used.

Additional Information:

- REDCA Technical Guidance Notes (TGNs): <https://www.redca.eu/Pages/Documents1.htm>

AdCo EMC report on market surveillance statistics for 2024

AdCo EMC published on April 2025 the market surveillance statistics for Year 2024 campaign which was focus on Chargers for e-bikes, e-scooters, hoverboards and other vehicles (chargers for electric cars and motorcycles were excluded from this campaign). Twelve national Market Surveillance Authorities (Croatia, Finland, Germany, Hungary, Ireland, Lithuania, Luxembourg, Netherlands, Poland, Romania, Sweden and Switzerland) have inspected 58 types of products.

A quasi-random sampling was performed over the whole price range, and from all origins (national, EEA, and imported from third countries). In general, the level of compliance with the



administrative and technical requirements was considered as low. Overall, 21 % of the Equipment Under Test were assessed as compliant.

Group	Devices Checked	Compliance Rate
Administrative		
CE Marking	58	56 (97%)
Declaration of Conformity	58	23 (40%)
User Manual	40	20 (50%)
Technical Documentation	13	2 (15%)
Traceability (Type, Batch or Serial Number)	44	43 (98%)
Traceability (Manufacturer Name/Address)	43	24 (56%)
Compliance with Harmonised Standards		
Emissions	53	26 (49%)
Immunity	5	5 (100%)

Additional Information:

- AdCo EMC report on market surveillance 2024: <https://webgate.ec.europa.eu/circabc-ewpp/d/d/workspace/SpacesStore/919329f7-8976-4740-818e-0b39b1f6b6b9/download>



North America (USA and Canada)

FCC KDBs Updates

Main KDBs published/updated during Q2/2025:

KDB	Status	Question	Comments
987594	Update	What are the requirements for obtaining a Certification for U-NII 6 GHz devices operating in the 5.925-7.125 GHz band under Part 15, Subpart E?	KDB extends Very Low Power Device (6VL) to 5.925 - 7.125 GHz band (U-NII-5, U-NII-6, U-NII-7 and U-NII-8). KDB provides further guidance for approval procedures for VLP devices and also specifically for VLP devices intended for use in vehicles only.

FCC approves measures to safeguard the Equipment Authorization Process from Bad Labs

On May 22, 2025, as part of the initiatives included in ET Docket No. 24-136, the FCC adopted new rules prohibiting Labs/TCBs which are related with Companies and/or Foreign Government Entities that US Government consider they are a risk for US national security.

The FCC has already restricted Companies included in "Covered List" from certifying products and with new rules they are extending this restriction to Labs and TCBs that have a participation larger than 10% from companies included in "Covered List" as well as other Foreign Government Entities identified by US Government as "Prohibited Entities".

Adopted rules requires that all Labs and TCBs listed in FCC:

- No later than 60 days after publication of new rules in Federal Register provide a certification to the FCC that the **Lab/TCB is not owned by, controlled by, or subject to the direction of a "Prohibited Entity"** pursuant to 47 CFR § 2.902.
- No later than 120 days after publication of new rules in Federal Register provide documentation to FCC **identifying any entity that has equity or voting interests of 5% or greater in the Lab/TCB.**

FCC defines "Owned by, controlled by, or subject to the direction of" as any entity in which a shareholder has 10% or more equity or voting interest or in which any other entity directly or indirectly has the power to determine, direct, or decide important matters.

"Prohibited Entities" are identified in CFR 47 Part 2.902:

- Each entity identified on the Covered List pursuant to 47 CFR §1.50002
- Entities identified as Foreign Adversaries by the Department of Commerce pursuant to 15 CFR 791.4
- Entities identified by any of the following sources:
 - [1]: Department of Commerce Bureau of Industry and Security Entity List pursuant to 15 CFR part 744, supplement no. 4.



- [2]: Department of Commerce Bureau of Industry and Security Military End-User List pursuant to 15 CFR part 744, supplement no. 7.
- [3]: Department of Homeland Security Uyghur Forced Labor Prevention Act Entity List as published by the Forced Labor Enforcement Task Force pursuant to 19 U.S.C. 4681.
- [4]: Section 5949 of the James M. Inhofe National Defense Authorization Act for Fiscal Year 2023 (Pub. L. 117-263).
- [5]: Section 1260H of the National Defense Authorization Act (NDAA) for Fiscal Year 2021 (Pub. L. 116-283).
- [6]: Department of Treasury Non-Specially Designated Nationals Chinese Military-Industrial Complex Companies List pursuant to 31 CFR part 586.

None of the DEKRA Laboratories or DEKRA TCB listed with the FCC have any “Prohibited Entity” holding 10% or more of their equity or voting interests. Therefore, they are not affected by the new FCC rules.

Additional Information:

- ET Docket No. 21-136 Adopted Rules: <https://www.fcc.gov/ecfs/search/search-filings/filing/105271115107819>
- Covered List: <https://www.fcc.gov/supplychain/coveredlist>
- Foreign Adversaries: <https://www.ecfr.gov/current/title-15/subtitle-B/chapter-VII/subchapter-E/part-791/subpart-A/section-791.4>
- Other Entities:
 - [1]: <https://www.ecfr.gov/current/title-15/subtitle-B/chapter-VII/subchapter-C/part-744/appendix-Supplement%20No.%204%20to%20Part%20744>
 - [2]: <https://www.ecfr.gov/current/title-15/subtitle-B/chapter-VII/subchapter-C/part-744/appendix-Supplement%20No.%207%20to%20Part%20744>
 - [3]: <https://www.govinfo.gov/content/pkg/USCODE-2023-title19/pdf/USCODE-2023-title19-chap29-subchapVI-partD-sec4681.pdf>
 - [4]: <https://www.govinfo.gov/content/pkg/PLAW-117publ263/pdf/PLAW-117publ263.pdf>
 - [5]: <https://www.govinfo.gov/content/pkg/PLAW-116publ283/pdf/PLAW-116publ283.pdf>
 - [6]: <https://www.ecfr.gov/current/title-31/subtitle-B/chapter-V/part-586>

TCB Council publishes Covered List Software Best Practices document

TCB Council has created a Best Practices document to guide Manufacturers, Laboratories and TCBs regarding reasonable due diligence in determining compliance with Covered List requirements.

This document outlines procedures for TCBs to ensure equipment does not include software from entities on the FCC’s Covered List, such as Kaspersky Lab. It emphasizes due diligence beyond attestations, requiring documentation showing how compliance was verified and including a technical justification (e.g., design limitations or analysis). Inherent compliance can be shown if a device cannot store or run covered software, otherwise, compliance may rely on a Software Bill of Materials (SBOM).

Additional Information:

- Covered List Best Practices Guidance Document: <https://tcbc.memberclicks.net/covered-list-best-practices>



ISED Updates

There is no ISED Radio Standards updates in Q2/2025.

ISED main General Notices published in Q2/2025:

Notice	Description	Comments
Notice 2025-DRS0002	RSS-HAC (Issue 2) Extension of Entry into Force of Hearing Aid Compatibility Requirements and Volume Control for Cellphone Device Manufacturers	ISED has extends the compliance date for cellphone device manufacturers for hearing aid compatibility and volume control requirements from January 1, 2026 until January 1, 2028.

ISED no longer accepts multiple Product Marketing Names (PMNs) in single field

Effective on June 30, 2025, ISED will no longer permit applications containing multiple PMNs in a single field, separated by commas, slashes, dashes, or other characters.

Applications containing more than one PMN are considered family applications and shall be submitted as such. If several PMNs exist for a single HVIN, this is considered a family certification.

Applications submitted on or after June 30, 2025 will require to be family applications if there is more than one PMN. Under a new family certification application, if more than one PMN exists, each PMN shall be listed individually under different Product Versions (PVs).

Example 1: Family application with 1 PMN and 5 HVINs	Example 2: Family application with 5 PMNs and 1 HVIN
First PV = HVIN 1 + PMN 1	First PV = HVIN 1 + PMN 1
Second PV = HVIN 2 + PMN 1	Second PV = HVIN 1 + PMN 2
Third PV = HVIN 3 + PMN 1	Third PV = HVIN 1 + PMN 3
Fourth PV = HVIN 4 + PMN 1	Fourth PV = HVIN 1 + PMN 4
Fifth PV = HVIN 5 + PMN 1	Fifth PV = HVIN 1 + PMN 5

Adding additional unique combinations of HVIN & PMN (Product Versions) can be done by adding models on the "List of Radio Models" page in SpectraWeb.

ISED has withdrawn the recognition to several Labs

ISED has formally withdrawn the recognition of the following Labs located in China:

- **BTF Testing Lab (Shenzhen) Co. Ltd** (CN0135). Eligible to re-apply on November 4, 2025
- **Shenzhen Anbotek Compliance Laboratory Ltd** (CN0059). Eligible to re-apply on May 20, 2026.
- **Shenzhen Tongce Testing Lab** (CN0031). Eligible to re-apply on May 20, 2026.



Standards Development Organizations (SDO)

International Electrotechnical Commission (IEC)

Main IEC Publications related with EMC/RF released in Q2/2025:

Publication	Scope
IEC 62232:2025	Determination of RF field strength, power density and SAR in the vicinity of base stations for the purpose of evaluating human exposure
IEC 61326-2-6:2025	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical electrical equipment
CISPR PAS 38:2025	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Requirements for radio beam wireless power transfer (RB-WPT) equipment
IEC 60730-2-8:2025 EXV	Automatic electrical controls - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements
IEC 60730-2-14:2025	Automatic electrical controls - Part 2-14: Particular requirements for electric actuators
IEC 60730-2-23:2025 EXV	Automatic electrical controls - Part 2-23: Particular requirements for electrical sensors and sensing elements
IEC 60947-3:2020+AMD1:2025 CSV	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
IEC 60947-7-1:2025	Low-voltage switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors
IEC 61000-2-9:2025	Electromagnetic compatibility (EMC) - Part 2-9: Environment - Description of HEMP environment - Radiated disturbance
IEC 62840-1:2025	Electric vehicle battery swap system - Part 1: General and guidance
IEC 62290-1:2025 RLV	Railway applications - Urban guided transport management and command/control systems - Part 1: System principles and fundamental concepts
IEC 62590-1:2025	Railway applications - Electronic power converters for fixed installations - Part 1: General requirements
IEC TR 61340-1-1:2025	Electrostatics - Part 1-1: Electrostatic phenomena - Measurement errors, uncertainties and expression of results

Additional Information:

- IEC Standards Search: <https://webstore.iec.ch/en/products/>



CEN-CENELEC

Main CEN-CENELEC Publications related with EMC/RF released in Q2/2025:

Publication	Scope
EN IEC 62232:2025	Determination of RF field strength, power density and SAR in the vicinity of base stations for the purpose of evaluating human exposure
EN IEC/IEEE 63184:2025	Assessment methods of the human exposure to electric and magnetic fields from wireless power transfer systems - Models, instrumentation, measurement and computational methods and procedures (frequency range of 3 kHz to 30 MHz)
EN IEC 60601-2-68:2025	Medical electrical equipment - Part 2-68: Particular requirements for the basic safety and essential performance of X-ray-based image-guided radiotherapy equipment for use with electron accelerators, light ion beam therapy equipment and radionuclide beam therapy equipment
EN IEC 60601-2-83:2020/A1:2025	Medical electrical equipment - Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment
EN IEC 62840-1:2025	Electric vehicle battery swap system - Part 1: General and guidance
EN 15955-1:2025	Railway applications - Infrastructure - Demountable machines, trailers and associated equipment - Part 1: Technical requirements for travelling and working
EN 15955-2:2025	Railway applications - Infrastructure - Demountable machines, trailers and associated equipment - Part 2: General safety requirements
EN IEC 60255-26:2025	Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements
EN IEC 60730-2-14:2025	Automatic electrical controls - Part 2-14: Particular requirements for electric actuators
EN IEC 60947-3:2021/A1:2025	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
EN IEC 60947-5-1:2025	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices
EN IEC 61000-4-2:2025	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
EN IEC 61557-9:2025	Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 9: Equipment for insulation fault location in IT systems
EN IEC 62657-2:2025	Industrial networks - Coexistence of wireless systems - Part 2: Coexistence management

Additional Information:

- CEN-CENELEC Standards Search: <https://standards.cenelec.eu/dyn/www/f?p=CEN:105::RESET:::>



International Organization for Standardization (ISO)

Main ISO Publications related with EMC/RF released in Q2/2025:

Publication	Scope
ISO 11451-1:2025	Road vehicles Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 1: General principles and terminology
ISO 11451-2:2025	Road vehicles Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 2: Off-vehicle radiation sources
ISO 11452-1:2025	Road vehicles Component test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 1: General principles and terminology
ISO 10924-2:2025	Road vehicles Circuit breakers Part 2: Guidance for users
ISO/TR 17716:2025	Road vehicles Electrical disturbances from narrowband radiated electromagnetic energy Radiated immunity for V2X
ISO 11680:2025	Machinery for forestry Safety requirements and testing for portable pole mounted powered pruners
ISO 7176-21:2025	Wheelchairs Part 21: Requirements and test methods for electromagnetic compatibility of electrically powered wheelchairs and scooters, and battery chargers
ISO 7176-25:2022/Amd 1:2025	Wheelchairs Part 25: Lead-acid batteries and chargers for powered wheelchairs — Requirements and test methods Amendment 1: Range of charging voltage and range of the minimum and maximum rated DC output voltage for testing
ISO 23551-10:2025	Safety and control devices for gas burners and gas-burning appliances Particular requirements Part 10: Vent valves

Additional Information:

- ISO Standards Search: <https://www.iso.org/advanced-search/x/>

CTIA – The Wireless Association

Main CTIA Publications related with Over-the-Air (OTA) Performance released in Q2/2025:



Publication	Scope
CTIA 01.01	Test Scope, Requirements, and Applicability v6.0.6 (June 2025)
CTIA 01.03	Normative Reporting Tables v6.0.4 (June 2025)
CTIA 01.20	Test Methodology, SISO, Anechoic Chamber v6.0.4 (April 2025)
CTIA 01.50	Wireless Technology, 3GPP Radio Access Technologies v6.0.5 (June 2025)
CTIA 01.51	Wireless Technology, Location Based Technologies v6.0.6 (June 2025)
CTIA 01.90	Informative Reference Material v6.0.2(April 2025)
CTIA 01.01	Test Scope, Requirements, and Applicability v8.0.1 (April 2025)
CTIA 01.03	Normative Reporting Tables v8.0.1 (April 2025)
CTIA 01.20	Test Methodology, SISO, Anechoic Chamber v8.0.1 (April 2025)
CTIA 01.50	Wireless Technology, 3GPP Radio Access Technologies v8.0.1 (April 2025)
CTIA 01.51	Wireless Technology, Location Based Technologies v8.0.1 (April 2025)
CTIA 01.90	Informative Reference Material v8.0.1 (April 2025)

Additional Information:

- CTIA Test Plans: <https://ctiacertification.org/test-plans/>