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| U.S. Radiocommunications Sector  Fact Sheet | |
| **Working Party:** ITU-R WP1A | **Document No:** USWP1A-05 |
| **Ref:** Res. 731 (Rev. WRC-23) WRC-23 [Prov.Fin.Acts](https://www.itu.int/dms_pub/itu-r/opb/act/R-ACT-WRC.15-2023-PDF-E.pdf) p. 412  [Chairs of Study Groups 1, 5 and 7](https://www.itu.int/dms_ties/itu-r/md/23/wp1a/c/R23-WP1A-C-0006!!MSW-E.docx),  STUDIES UNDER RESOLUTION 731 (REV.WRC-23)  Consideration of sharing and adjacent-band compatibility  between passive and active services above 71 GHz. [Document 1A/6-E](https://www.itu.int/dms_ties/itu-r/md/23/wp1a/c/R23-WP1A-C-0006!!MSW-E.docx)  [Annex 16](https://www.itu.int/dms_ties/itu-r/md/19/wp5b/c/R19-WP5B-C-0819!N16!MSW-E.docx) to Document 5B/819-E  15 August 2023 | **Date:** 4 March 2024 |
| Document Title: Proposal on development of the working document towards a preliminary draft report on emission limits for spectrum sharing in 71-275 GHz for Terahertz Spectroscopy (THzS)/Radiodetermination systems for industry automation in shielded environments (RDI-S) | |
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| **Purpose/Objective:**  To legitimize and normalize the ongoing developing, marketing, and use in industrial manufacturing facilities of THzS/RDI-S technology on a worldwide basis with equitable treatment for US entities consistent with the protection of critical passive services in 71-275 GHz | |
| **Abstract:** For several decades THzS/RDI-S technology has been developed, marketed and used worldwide in production processes and by a few other applications under nontransparent regulatory terms. This technology improves real time quality control in many manufacturing operations is an essentially a very short range radiodetermination system. The present total ITU regulatory vacuum damages US interests in both the development of this technology and creates complex issues for potential users with respect to emission limits. Consistent worldwide emission limits in a Res. 731 framework would address these concerns while also protecting critical passive services. | |