C63® American National Standards Committee C63®

Electromagnetic Compatibility

Subcommittee 8 - Medical Device EMC Test Methods

Chair: David Schaefer **Vice Chair: Jeff Silberberg** **Secretary: Cathy Miller**

May 4, 2026; 2:45 PM – 4:45 PM - MDT
NIST, Boulder, CO
Meeting Minutes

1. **Call to Order: Chair** - The meeting was called to order at 2:46 PM - MDT
   - **1.1 Opening remarks and Announcements: Chair -** Thanks for attending!
   - **1.2 Meeting logistics announcements: Host** - restrooms down the hall
   - **1.3 Introductions: Secretary - roll call** (record attendees, absent, errors and excused members with their affiliations and guests separately below) **Report any roster errors to the ANSC-C63® Secretary (**SC8 membership roster from the website is shown below)

Subcommittee 8 Membership Roster

Name	Role in SC	Affiliation
Al-Kalaa, Omar	Member	Inovectrum
Ardeshirpour, Yasaman	Member	FDA (Expert)
Case, Dave	Member	TIMCO Engineering Inc. (Expert)
DeLisi, Bob	Member	UL LLC (Primary)
Hoolihan, Dan	Member	Hoolihan EMC Consulting (Individual)
Kuczynski, Victor	Member	Vican Electronics
Liu, Steve	Member	RF Safety Laboratory LLC
Schaefer, Dave	Chair	Element Materials Technology (Primary)
Silberberg, Jeff	Vice Chair	Member Emeritus
Zimmerman, Dave	Member	(Individual)

Guests and Observers: (non-voting) Jerry Ramie, Denys Shumakov, Jason Nixon, David Chamberlain, Ken Gjerde, Pao Thao, Steve Koster, Jason Coder, Bill Koerner, Henry Benitez

1.4 Quorum: (50% of roster) constitutes a quorum. (rounding up) (**Example**: 10 roster members / 2 = 5 >> 5 (therefore 5 people are required for a quorum) **Was quorum achieved? (Yes)** If not, any actions taken are subject to confirmation by electronic ballot or at a future meeting. (Quorum is not required for Working Group meetings)

2. **Approval of the Consent Agenda** (includes Agenda and Previous Minutes) **Secretary** - The consent agenda was approved by acclamation. (Approved Previous Minutes)

   2.1 Review of the patent slides - Secretary - The patent slides were shown and agreed upon.

3. **Review of Subcommittee Membership - Secretary – Report any errors to the ASC-C63® Secretary -** None

3.1 Review of Membership Guidelines – Any members at risk?

Subcommittees:
For an individual to remain a voting member of a Subcommittee, active participation in Subcommittee meetings and regular responses to Subcommittee email votes is required. Should a member fail to attend at least one of three consecutive scheduled meetings (in person or remotely via web conference (when used)) or respond to at least one of every two consecutive Subcommittee email votes, their membership in that Subcommittee may be at risk.

Note: Abstentions shall be treated the same as a "yes" or "no" vote regarding the requirement to respond to email votes.

Working Groups:
For an individual to remain a member of a Working Group, active participation is required. Should a member fail to attend at least one of three consecutive scheduled meetings (in person or via web conference (when used)) their membership in that Working Group may be at risk. Individual Working Groups may establish additional participation criteria and/or modify this requirement.

Member Attendance Log:

3/10/2021	5/17/2022	11/4/2022	5/9/2023	9/28/2023	5/16/2024	10/2/2024	5/7/2025	10/6/2025	5/4/2026	Name
							x	x		Al-Kalaa, Omar
							x	x	x	Ardeshipour, Yasaman
x							x			Case, Dave
x	x	x		x			x	x	x	DeLisi, Bob
x	x	x					x		x	Hoolihan, Dan
x							x	x		Kuczynski, Victor
x	x	x	x				x	x	x	Liu, Steve
x	x			x			x	x	x	Schaefer, Dave
x	x	x	x				x	x	x	Silberberg, Jeff
x		x	x	x			x	x		Zimmerman, Dave

Any members at risk? None are at risk: (send a letter to members at risk)

3.2 Consideration of new members Application for C63® Subcommittee Membership

4. Approval of Scope, Duties & Roster (Spring meeting only) (Report approval or any roster changes to the Main Committee)

Scope - Subcommittee 8 is responsible for writing and maintaining existing and proposed C63® standards for medical devices and systems, as assigned by the Main Committee ANSC 63®

Duties - C63.18, C63.19, C63.33

Roster (shown above)

Motion to approve Scope, Duties & Roster? **Jeff moved to approve, seconded by Dave. No objections.** The Scope, Duties & Roster were approved by acclamation. Jerry will update Subcommittee duties on all SC landing pages.

4.1 ~~Election of Officers~~ (as required): N/A

5. Working Group reports - Chair - More information about each standard is available on the Standards Status Matrix page of the C63® web site. This information will be reviewed for accuracy at each Subcommittee meeting. Report templates are available as the C63_PowerPoint_template_wide. (no password required)

5.1 C63.18: On Site Medical Device Immunity Testing - No Chair (insert link to WG report) **Jeff Silberberg** volunteered to create a **PINS** for a new edition. PINS form – Completed PINS C63.18

5.11 Status Matrix Review (Spring meeting only) Verify accuracy of document status matrix content and report any errors to the ASC-C63® Secretary.

C63.18-2014 Learn more	On-Site Medical Radiated RF Immunity testing	SC 8	None	No active PINS	Reaffirmed 2019.

C63.18: C63.18-2014 On-site, Ad-Hoc Test Method for Estimating Radiated Electromagnetic Immunity of Medical Devices to Specific Radio Frequency Transmitters
Contact: None
Scope: This recommended practice is a guide to evaluating the electromagnetic immunity of medical devices to radiated radio-frequency (RF) emissions from common RF transmitters (e.g., two-way radios; walkie-talkies; mobile phones; wireless-enabled tablets, e-readers, laptop computers, and similar devices; radio-frequency identification (RFID) readers; networked mp3 players; two-way pagers; and wireless personal digital assistants [PDAs])..
Status: Reaffirmed 2019.
Purchase: Search IEEE Standards - Enter C63 Standard number then Search (Enter) - Click on the version you want - Click on Purchase

Is this information correct? (Yes) (repeat this verification for all Standards covered by this Subcommittee)

5.2 C63.19: Hearing Aid Compatibility maintenance - Chair (insert link to WG report)

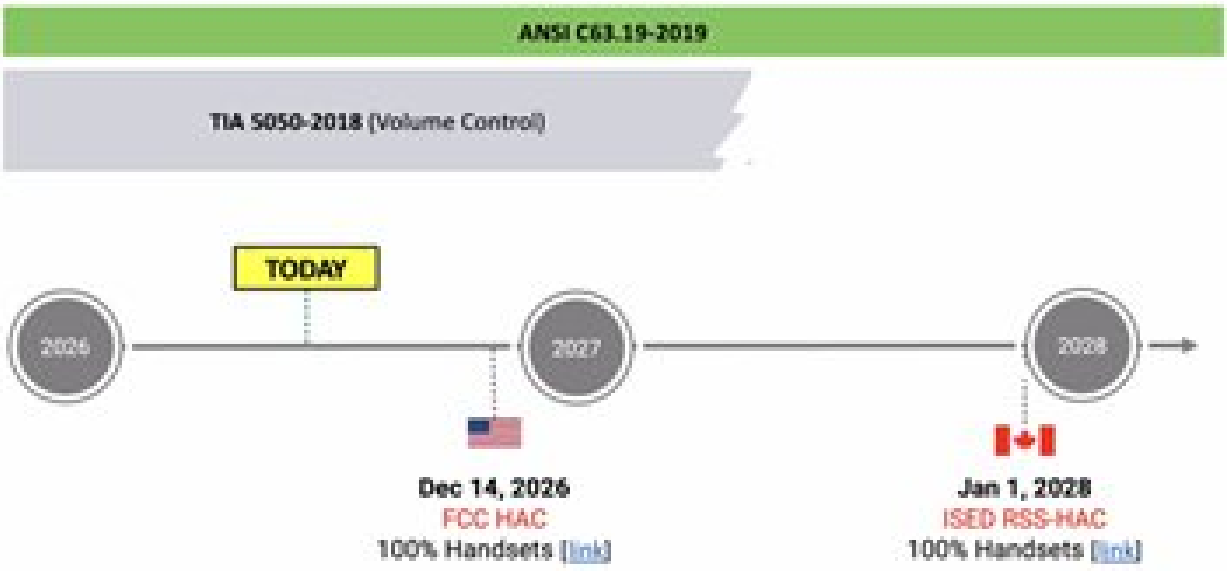
C63.19 PINS needs SC8 approval - voting started 2/13 – approved with comments, submitted to main committee, Updated version C63.19 PINS

Original Project Need: Review and revise standard for updates including dated versus undated references, updates for TIA5050, and explore harmonization with ISO/IEC standards.

Revised Project Need: Review and revise standard for updates including dated versus undated references, updates for TIA5050, and explore harmonization with ISO/IEC standards. New technologies will be addressed by extending the maximum frequency and test signals.

Steve Lui presented about C63.19 WG and will Chair the group

HAC/HLC Regulatory Deadlines

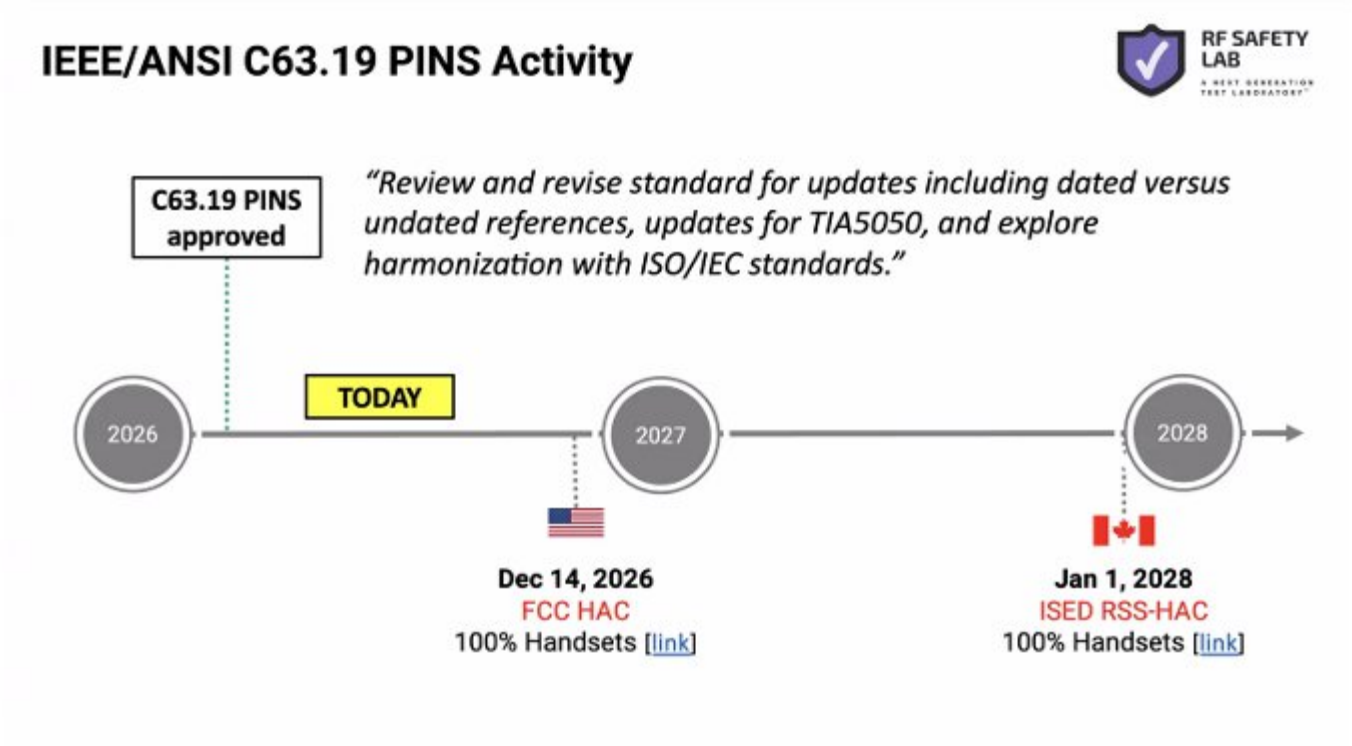


Ongoing work with TIA-5050

1. **Volume Control requirement adopted in ANSI C63.19-2019**
   1. ✅ Receiver Frequency Response
   2. ✅ 2N – person using hearing aids: CG = 6 dB+
   3. ⚠️ 8N – person not using hearing aids: CG = 18dB+
   4. ❌ Receiver Distortion 🚨PROBLEM🚨

2. **Today's noise suppression tech pose challenges for Distortion**
   A. Old: PD-SDNR
   B. In Study: "Delta-POLQA" MOS
   C. In Study: ETSI-STQ NLM
   D. Round Robin testing to validate (~3Q 2026)
   E. Distortion "PASS" criteria TBD





5.21 Status Matrix Review (Spring meeting only) Verify accuracy of document status matrix content and report any errors to the ASC-C63® Secretary.

C63.19-2019 Learn more	EMC for Hearing Aids,	SC 8	TBD	No active PINS	Published 2019

C63.19: C63.19-2011 American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids
Contact: TBD (Working Group Chair)
Scope: Uniform methods of measurement for compatibility between hearing aids and wireless communications devices are set forth.
Status: Published 2019
Purchase: Search IEEE Standards - Enter C63 Standard number then Search (Enter) - Click on the version you want - Click on Purchase

Is this information correct? (Yes)

5.3 C63.33: Immunity of Portable Medical Devices to Electronic Article Surveillance (EAS) Systems - Chair (insert link to WG report) **Draft nearing completion**?

5.31 Status Matrix Review (Spring meeting only) Verify accuracy of document status matrix content and report any errors to the ASC-C63® Secretary.

C63.33-draft Learn more	Immunity of Portable Medical Devices to Electronic Article Surveillance (EAS) Systems	SC 8	Abbondante, Nicholas	C63.33 PINS	New standard. Draft being written.

C63.33-draft: American National Standard for Evaluating Immunity of Portable Electronic Medical Devices to Electronic Article Surveillance (EAS) Systems and Metal Detectors
Contact: Abbondante, Nicholas (Working Group Chair)

Scope: Test methods and test levels for testing immunity of portable electronic medical devices to EAS systems and metal detectors, using actual EAS systems and metal detectors or simulated signals. Information on incorporation of results into risk management.
Status: New standard. Draft being written.
Purchase: Not yet available for sale.

Is this information correct? (Yesa)

6. Old Business: Chair

6.1 Written reports - Written reports of this Subcommittee meeting shall be presented by the Subcommittee Chair at the Main Committee meeting. These reports shall be made using the C63_PowerPoint_template_wide. Prior to the Main Committee meeting, the SC report and approved previous SC meeting minutes shall be provided to the projectionist for showing on the screen at the Main meeting. The Presentation and any written report shall also be sent by the Subcommittee Chair to the ASC-C63® Newsletter editor.

6.2 Coordination with SC2 for definitions - Before any Working Group draft can be submitted to the Subcommittee for approval, the document must be provided to the SC2 Chair for evaluation and coordination of the definitions used.

6.3 Coordination with SC3 for harmonization - Are there any documents that need to be brought to SC3 for harmonization? WG chairs to provide input:

7. New Business: Chair

8. C6 website use and updates: Secretary - We normally post documents to the SC8 protected area. If any SC or WG needs help with this posting, a Technical Secretary is available to assist.

9. Review of the Action Items: Secretary

9.1 Review of Action Items from this meeting: (read Action Items to Members, who must agree that they understand their meaning)

9.2 Review of Action Items from previous meeting: (insert consolidated Action Item table from the previous meeting Minutes as shown below)

Consolidated Action Items from 10/06/2025 Meeting of SC8

Action Item #	Subject	Responsible Person(s)	Status	Delivery Date	Comments
AI-1:	Propose a new PINS for C63.18	J. Silberberg	Completed	Next meeting	
AI-2:	Investigate PINS or PINS-C for Electro Surgical Unit immunity	D. Schaefer	Open	Next meeting	
AI-3:	Dave S. to develop a C63.19 PINS for review by SC8	D. Schaefer	Completed	Next meeting	
AI-4:	Yasaman to generate draft informative text to add to the existing C63.33 draft	Y. Ardeshirpour	Completed	Next meeting	non-technical text to be changed

10. Time and place of next meeting: Chair – week of October 19th at A2LA in Frederick, Maryland

11. Closing remarks and Adjournment: Chair – meeting adjourned at 2:25pm MDT

********** End of Meeting **********

Consolidated Action Items from 20260504 Meeting of SC8

Action Item #	Subject	Responsible Person(s)	Status	Delivery Date	Comments