Equipment Authorization
Roles and Responsibilities and Scopes

TCB Workshop
April 2016

Laboratory Division
Office of Engineering and Technology
Federal Communications Commission
Overview

KDB 641163 and KDB 974614
- Cover closely related issues
- FCC plan to publish both soon after TCBC workshop
- Intent for today to provide FCC general approach and allow for last minute comments before final versions published
  - FCC prefers limited manageable number of test firm scopes to allow for flexibility for test firms but ensure each test firms capabilities are clearly understood
- How should FCC relate test firm capability to scope, standards and KDB publications?
KDB 641163 TCB Roles and Responsibilities

KDB Publication 641163
- Last release 7/31/2015
- Draft Publication
  - 12/16/15 – 1/22/2016
- Next final version just after TCBC Workshop
  - Waiting on 974614 to be finalized
- Change summary
  - Clarified ISO/IEC 17065 process requirements
    - Application, Application Review, Evaluation, Review and Certification Decision
  - Reorganized and updated text for clarity
  - Added TCB scope reference to accredited lab scopes
  - Added Key Personnel table
KDB 974614 Accredited Testing Laboratory Roles and Responsibilities

KDB Publication 974614
- Last release 6/23/2015
- Draft Publication
- Next final version just after TCBC Workshop

Electronic Filing System updates to accommodate scopes in progress
- Expected completion prior to July 12, 2016
- Accreditation Bodies may start assessing test labs to KDB scopes now
Review of major comments to draft publication

- Part 15 Intentional Radiator Scopes
  - Frequency in scope name is highest measured frequency
- “Partial” Scope Terminology Confusion
  - Scope vs test method/standard
- Labs in non-MRA countries
  - Petitions for Reconsideration pending
- KDBs as part of assessed scope
  - KDB updates after assessment

* Note that the FCC may not adopt all discussed comments
Part 15 Intentional Radiator Scopes

- Group by measured frequency range or not?
  - Not grouping by measured frequency reduces number of scopes to manage
  - Fewer scopes without range allows more flexibility for test firms and accredited labs but would be more difficult for FCC, TCBs and grantees to identify test firm capabilities
  - FCC website would need information to show scope limitations
    - Free form text fields can be inconsistent and difficult for external users to search
  - FCC received comments on both sides of issue
  - FCC preference to have minimum necessary scopes
KDB 974614 Consideration/Comments

Scope vs Test Method/Standard

- Examples based on proposed draft scopes

  - Part 15 - 2.4 GHz Fundamental frequency transmitter test to 10\textsuperscript{th} Harmonic
    - Only scope Part 15 under 26.5 GHz scope needed
  - Part 15 - 5 GHz Fundamental frequency transmitter test to 40 GHz
    - Scope Part 15 Transmitter under 26.5 GHz scope and Part Transmitter 26.5-40 GHz scope needed
  - For Part 15 Transmitter if test firm only assessed to 26.5 GHz but test standard is valid to 40 GHz, FCC doesn’t consider this a "partial" FCC scope
    - Accreditation body should note any test method/standard limitations on FCC designation information submitted

  - Part 18 Scope has no FCC frequency limit. Test lab has flexibility on range they want to be assessed too
    - Accreditation body should note limitation on FCC designation
    - Test firm can’t test outside assessed scope
KDB 974614 Consideration/Comments

KDB’s and Accreditation Scope

- Should KDB’s be assessed as part of 17025 assessment?
  - Lots of comments to FCC on both sides
  - KDBs can change faster than standards which makes it more difficult for AB’s to assess too
  - Should KDB publication date be listed on scope of accreditation
    - FCC proposed in draft allowing test firms to use newer versions of KDB’s until next scheduled assessment unless otherwise directed
  - KDB provide guidance where standards may not be clear or available
    - FCC Goal is to only use KDBs when standard not available or clarification of standard needed and remove KDB from scope test method list asap
  - Assessing Test Labs to KDBs give FCC higher confidence level in test labs capabilities

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KDB 974614 FCC modifications under consideration

- Update scopes
  - Minor scope name corrections for clarity
  - Added signal booster scope
  - Part 15 intentional radiator scopes

- Merged scope tables 1 and 2

- Reorganized some sections for clarity
# KDB 974614 Proposed draft publication scopes for 17025 Labs

<table>
<thead>
<tr>
<th>Scope</th>
<th>Test Method(s)</th>
<th>Additional Guidance</th>
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<tr>
<td>Part 15, Unintentional Radiators</td>
<td>• ANSI C63.4-2014</td>
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<tr>
<td>Part 18, Industrial, Scientific, and Medical Equipment</td>
<td>• FCC MP-5 (February 1986)</td>
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<td>Part 15 Intentional Radiators below 26.5 GHz – except Part 15D</td>
<td>• ANSI C63.10-2013</td>
<td>• KDB Publication 789033</td>
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<td>Part 15, Subpart D UPCS</td>
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<tr>
<td>Part 15 Subpart E UNII with DFS</td>
<td>• KDB Publication 905462</td>
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### Scope of Proposed Testing Methods for 17025 Labs II

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<tr>
<th>Scope</th>
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<td>Licensed Radio Service Equipment - General Mobile Radio Services</td>
<td>• ANSI/TIA-603-D (2010)</td>
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<tr>
<td>Licensed Radio Service Equipment - Maritime (80) and Aviation (87)</td>
<td>• ANSI/TIA-603-D (2010)</td>
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<tr>
<td>Licensed Radio Service Equipment - Microwave Radio Services</td>
<td>• ANSI/TIA-603-D (2010)</td>
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<td>Licensed Radio Service Equipment - Broadcast Radio Services</td>
<td>• ANSI/TIA-603-D (2010)</td>
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<td>RF Radiation Exposure</td>
<td>• IEEE Std 1528™-2013</td>
<td>KDB Publication 865664</td>
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<td>Part 20 Hearing Aid Compatibility (HAC)</td>
<td>• ANSI C63.19-2007</td>
<td>KDB Publication 285076</td>
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<td>Part 20 Signal Boosters</td>
<td>• ANSI C63.19-2011</td>
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KDB 974614 proposed draft publication
proposed scopes for 17025 Labs II

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