

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
 - <https://apps.fcc.gov/oetcf/kdb/forms/FTSSearchResultPage.cfm?switch=P&id=44683>
 - 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
 - <https://apps.fcc.gov/oetcf/kdb/forms/FTSSearchResultPage.cfm?switch=P&id=44684>
 - Draft Publication
 - 2/23/2016 - 3/25/2016
 - 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



KDB 974614 Draft Publication

- 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



KDB 974614 Consideration/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



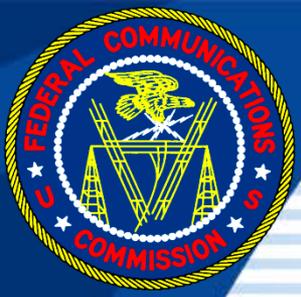
KDB 974614 Consideration/Comments

- Scope vs Test Method/Standard
 - Examples based on proposed draft scopes
 - Part 15 - 2.4 GHz Fundamental frequency transmitter test to 10th 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 to 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



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



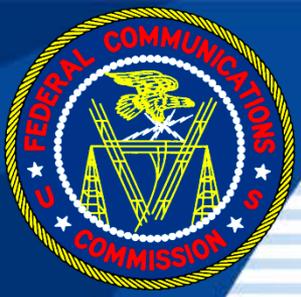
KDB 974614 Proposed draft publication scopes for 17025 Labs

Scope	Test Method(s)	Additional Guidance
Part 15, Unintentional Radiators	<ul style="list-style-type: none"> ANSI C63.4-2014 	
Part 18, Industrial, Scientific, and Medical Equipment	<ul style="list-style-type: none"> FCC MP-5 (February 1986) 	
Part 15 Intentional Radiators below 26.5 GHz – except Part 15D	<ul style="list-style-type: none"> ANSI C63.10-2013 	<ul style="list-style-type: none"> KDB Publication 789033
Part 15 Intentional Radiators above 26.5 GHz - except Part 15D	<ul style="list-style-type: none"> ANSI C63.10-2013 	
Part 15, Subpart D UPCS	<ul style="list-style-type: none"> ANSI C63.17-2013 	
Part 15 Subpart E UNII with DFS		<ul style="list-style-type: none"> KDB Publication 905462
Licensed Radio Service Equipment - Commercial Mobile Services-22(cellular), 24, 25, and 27	<ul style="list-style-type: none"> ANSI/TIA-603-D (2010) 	<ul style="list-style-type: none"> KDB Publication 971168



KDB 974614 proposed draft publication proposed scopes for 17025 Labs II

Scope	Test Method(s)	Additional Guidance
Licensed Radio Service Equipment - General Mobile Radio Services-22(non-cellular), 90, 95,and 97	<ul style="list-style-type: none"> ANSI/TIA-603-D (2010) 	
Licensed Radio Service Equipment - Part 96 Citizens Broadband Radio Service	<ul style="list-style-type: none"> ANSI/TIA-603-D (2010) 	<ul style="list-style-type: none"> KDB Publication 971168
Licensed Radio Service Equipment - Maritime (80) and Aviation (87) Radio Services	<ul style="list-style-type: none"> ANSI/TIA-603-D (2010) 	
Licensed Radio Service Equipment - Microwave Radio Services-27, 74, and 101	<ul style="list-style-type: none"> ANSI/TIA-603-D (2010) 	
Licensed Radio Service Equipment - Broadcast Radio Services-73 and 74	<ul style="list-style-type: none"> ANSI/TIA-603-D (2010) 	
RF Radiation Exposure	<ul style="list-style-type: none"> IEEE Std 1528™-2013 	<ul style="list-style-type: none"> KDB Publication 865664 KDB Publication 447498
Part 20 Hearing Aid Compatibility (HAC)	<ul style="list-style-type: none"> ANSI C63.19-2007 ANSI C63.19-2011 	<ul style="list-style-type: none"> KDB Publication 285076
Part 20 Signal Boosters		<ul style="list-style-type: none"> KDB Publication 935210



Questions and Answers

Thanks!