

Y		<p>12. Are the measuring receiver(s) or spectrum analyzer(s) used for compliance measurements compliant with the requirements in C63.4-2003, Clause 4.1.1 (C63.4-2009, Clause 4.2)?</p> <p><i>Note: Part 15 requires the use of measuring equipment in compliance with CISPR Publication 16 (47 CFR §15.35). C63.4-2009 references the specification in C63.2 or CISPR 16-1-1:2007. C63.4-2009, Clause 4.2.2 contains significant information on using spectrum analyzers. Annex H: "Precautions in using spectrum analyzers" is also relevant.</i></p>	
Y		<p>13. Is any measurement software used by the testing laboratory documented in the test report? (C63.4-2009, Clause 10.2.7)</p> <p><i>Note: The test personnel should be prepared to demonstrate any measurement software used including demonstration it is adequate for the measurement. When parameters are entered by the user of the test instrumentation, it is considered a data transfer and subject to appropriate checks, i.e., check that the correct calibration corrections factors are used and revision of entered parameters, calculations and logic are adequate and under revision control consistent with ISO/IEC 17025, Clause 4.3 and 5.4.7.2.</i></p>	
Y		<p>14. Have the RF cables, RF switches, terminators, attenuators and pre-amplifiers been characterized in accordance with C63.4-2003, Clause 4.4.5 (C63.4-2009, Clause 4.7.5)?</p> <p><i>Note: The reference in C63.4-2009 provides guidance on the insertion loss of cables and the impact of their exposure to the environment, with specific guidance on addressing temperature variations.</i></p>	

III. TEST FACILITIES			
A. Facilities for measuring power-line conducted emissions			Comments
Y		15. Are the power-line conducted ambient signal levels at least 6 dB below the limit per C63.4-2003, Clause 5.1.2 (C63.4-2009, Clause 5.1.2) or can it be demonstrated that the testing personnel are capable of using alternative methods provided in C63.4?	
Y		16. Does each line conducted facility used by the testing laboratory comply with the conditions and requirements of C63.4-2003, Clause 5.2 (C63.4-2009, Clause 5.2) and MP-5 as appropriate? Is the LISN electrically bonded to the reference ground plane?	
Y		17. Is the vertical conducting plane, if used, installed and used in accordance with C63.4-2003, Clause 5.2.2 (C63.4-2009, Clause 5.2.2)? Is the vertical plane bonded (3 cm minimum strap width) properly to the horizontal reference ground plane (3 bonds minimum)?  <i>Note: The vertical conducting plane is optional in both editions of C63.4. Therefore the laboratory does not have to use it for table top products. However, in case of dispute, the test performed using a vertical conducting plane shall take precedence. This option was entered when conducted tests are performed at an open area test site with only a ground plane present and no conducting wall.</i>	
B. Facilities for measuring radiated emissions in the frequency range of 30 MHz to 1 GHz			Comments
Y		18. For each type and size of EUT to be measured, does each radiated emission test facility comply with the conditions and requirements of C63.4-2003, Clause 5.4 (C63.4-2009, Clause 5.4.4 and Annex D)?	
Y		19. Are LISN(s), filters, and isolation transformers, if used, installed in accordance with C63.4-2003, Clause 5.2.3 (C63.4-2009, Clause 5.2.3)? Is the LISN bonded to the ground reference plane?	

Y		20. Is the reflecting ground plane in accordance with C63.4-2003, Clause 5.4.3 (C63.4-2009, Clause 5.4.3)?	
Y		21. Is the EUT turntable installed and used in accordance with C63.4-2003, Clause 5.4.4 (C63.4-2009, Clause 5.1.3)?	
Y		22. Is the antenna positioner installed in accordance with C63.4-2003, Clause 5.4.5 (C63.4-2009, Clause 5.1.5)?	
Y		23. Does the radiated emission test site(s) meet the site validation requirements of C63.4-2003, Clause 5.4.6 (C63.4-2009, Clause 5.4.4) for the frequency range of 30 MHz to 1 GHz?  <i>Note: In C63.4-2009 detailed requirements for the site validation are contained in a new Annex D. In Clause 5.4.4 reference to ground plane mounted LISNs are presented and should be verified that such LISNs are in place when performing site validations. In addition, "Is the special cabling connected to the antenna used: if so, is that cabling also used while making emissions measurements?"</i>	
Y		24. Was the test site validation for performing radiated emissions measurements below 1 GHz completed in the last three years? (C63.4-2003 Clause 5.4.6.2 and C63.4-2009, Clause 5.4.4.2)	
<b>C. Facilities for measuring radiated emissions in the frequency range of 1 GHz to 40 GHz</b>			<b>Comments</b>
Y		25. Has the sensitivity of the complete measurement system been determined and have any preamplifiers used to attain this sensitivity been checked to ensure that they do not cause distortion, spurious signals or overload (C63.4-2003, Clause 4.1.5.4/C63.4-2009, Clause 8.2.4)?  <i>Note: In Clause 4.1.5.4 of C63.4-2003, there is a requirement that the overall measurement sensitivity is at least 6 dB below the applicable limits at the measurement distance used.</i>	The determination of the sensitivity of the entire measurement system to be at least 6dB below applicable limits has been initiated but is not completed yet all the way up to 40GHz.  The laboratory has data supporting sensitivity up to 18GHz. The laboratory scope of accreditation is only up to this 18GHz range.

Y		26. Are the beamwidths of the measurement antennas known so that the beamwidth versus size of the EUT can be taken into account (C63.4-2003, Clauses 4.1.5.4, 8.2.4 and 8.3.1.2/C63.4-2009, Clauses 4.5.4 and 8.2.4)? Has the antenna beamwidth been verified and then considered in making measurements over the full frequency range of the test?	
Y		27. Does the EMI receiver or spectrum analyzer cover the required frequency range per the scope of accreditation for the measurements to be performed by the testing laboratory? (47 CFR §15.33/C63.4-2003, Clause 4.1.1/C63.4-2009, Clause 4.2)	
Y		28. Does the radiated emission test site(s) meet the site validation requirements for measurements above 1 GHz? (C63.4-2003, Clause 5.5/C63.4-2009, Clause 5.5)  <i>Note: Site validation above 1 GHz includes that the site meets NSA below 1 GHz as required in both editions of C63.4. C63.4-2009 provides two options for test facilities used to make radiated emission measurements above 1 GHz, and clarifies that the use of RF absorbers on the top of the ground plane is permitted. (KDB Publication 704992)</i>	
<b>IV. EMISSION TESTS</b>			
<b>A. Power-line conducted emission tests</b>			<b>Comments</b>
Y		29. Are the AC power-line conducted emission tests performed in accordance with the applicable parts of C63.4-2003, Clauses 6 and 7 (C63.4-2009, Clauses 6 and 7), and 47 CFR §§15.31-15.35 and 15.107?  <i>Note: The test personnel should be prepared to demonstrate how the power-line conducted emission measurements are performed.</i>	

Y		<p>30. Are the guidelines in ANSI C63.4 and MP-5 followed for large EUTs, including <i>in-situ</i> measurements, if appropriate? C63.4-2003, Clause 4.1.3 (C63.4-2009, Clause 4.4)?</p> <p><i>Note: Ask for a demonstration or description of how large EUTs are handled Ask the test personnel to explain what special measurements, test equipment and conditions are required when the power requirement is greater than the rated capacity of the LISN.</i></p>	
Y		<p>31. Is the conducted emission test setup in accordance with C63.4 with the required separation between the EUT and any conducting surfaces maintained? (C63.4-2003, Clauses 6 and 7/C63.4-2009, Clauses 6 and 7)</p> <p><i>Note: (1) For a tabletop EUT, C63.4-2003 Figure 10a/C63.4-2009, Figure 7.</i></p> <p><i>(2) For a floor-standing EUT, C63.4-2003, Figure 10b/C63.4-2009, Figure 8.</i></p> <p><i>(3) For combination equipment, C63.4-2003, Figure 14/C63.4-2009, Figure 13.</i></p> <p><i>(4) For floor standing equipment interconnected via an overhead cable trays, C63.4-2003, Figures 12a and 12b/C63.4-2009, Figures 11 and 12.</i></p>	
Y		<p>32. Is the conducted emission test performed on the AC cord supplying power to a common power strip, when the device has the power strip as part of the EUT which contains multiple power cords that use the power strip? (C63.4-2003, Clause 7.2.1/C63.4-2009, Clause 7.3.1)</p>	
Y		<p>33. Is the excess power cord length between the EUT and the LISN folded back and forth in a bundle, located in the center of the power cord, not to exceed 40 cm? (C63.4-2003, Clause 7.2.1/C63.4-2009, Clause 7.3.1)</p>	
Y		<p>34. Is the EUT connected to one LISN and all the peripherals connected to one or more LISNs or a power strip to one LISN? (C63.4-2003, Clause 7.2.1/C63.4-2009, Clause 7.3.1)</p>	

Y		35. Does the final conducted emission test represent the maximized cable configuration and worst case mode of EUT operation as based on the configuration from the exploratory tests? (C63.4-2003, Clause 7.2.4/C63.4-2009, Clause 7.3.4)	
Y		36. For each type of EUT, are measurements made over the correct frequency ranges and the correct detectors and bandwidth as required by 47 CFR §§15.33, 15.35 and 18.309?	
<b>B. Radiated Emission Tests</b>			<b>Comments</b>
Y		37. Are the radiated emission tests performed in accordance with C63.4-2003 Clauses 6, 8, and 11 (C63.4-2009, Clauses 6, 8, and 11)?  <i>Note: The test personnel should be prepared to demonstrate how the radiated emission measurements are performed.</i>	
Y		38. Is the radiated emission test setup for an EUT with a video display in accordance with C63.4-2003, Clause 11.1.3/C63.4-2009, Clause 11.4 and Figure 15?	
Y		39. Do the procedures for handling ambient emissions follow C63.4-2003, Clause 5.1.2 (C63.4-2009, Clause 5.1.2)?	
Y		40. Are exploratory and final radiated measurements made in accordance with C63.4-2003, Clauses 8.3, and 11 (C63.4-2009, Clauses 8.3, and 11)?  <i>Note: An informative annex is provided in C63.-2003, Annex C/C63.4-2009, Annex E – Method of exploratory radiated emission maximization.</i>	
Y		41. Is the radiated emission test setup in accordance with C63.4-2003, Figures 11a (tabletop), 11b (floor standing), 14 (combination floor standing and tabletop), and 12a and 12b (floor standing interconnected via overhead cable trays/C63.4-2009, Figures 9 (tabletop), 10 (floor standing), 13 (combination table top and floor standing) and Figures 11 and 12 (floor standing interconnected via overhead cable trays).	

Y		42. For Information Technology Equipment (ITE), is the EUT operated and tested in accordance with the procedures in C63.4-2003, Clause 11 (C63.4-2009, Clause 11)?	
Y		43. Are unintentional radiators, other than ITE, tested in accordance with the requirements in 47 CFR §15.31 and the procedures in C63.4-2003, Clause 12 and Annex G (C63.4-2009, Clause 12) and MP-5?	
Y		44. Are intentional radiators tested in accordance with the requirements in 47 CFR §15.31 and the procedures in C63.4-2003, Clause 13 and Annex H (C63.4-2009, Clause 13)?	
Y		45. Does the radiated emission measurement represent the maximized cable configuration and worst case mode of EUT operation as based on exploratory testing configuration? (C63.4-2003, Clause 8.3.1.2/C63.4-2009, Clauses 8.3.2.1 and 8.3.2.2)	
Y		46. For each type of EUT, are the correct frequency ranges investigated and the correct measurement detectors and bandwidth used per 47 CFR §§15.33 and 15.35?	
Y		47. For products in which the limits from CISPR 22 are used to demonstrate compliance with 47 CFR Part 15, are the measurements made in accordance with 47 CFR §15.109(g)?  <i>Note: The test procedures in C63.4-2003 or C63.4-2009 shall be used to determine compliance to the radiated emission limits The EUT is required to comply with the FCC radiated emission limits above 1 GHz.</i>	
	N/A	48. If the laboratory has a TEM waveguide, are the requirements followed in making radiated emission measurements using TEM waveguides? (C63.4-2003, Annex L/C63.4-2009, Annex F)	Laboratory doesn't use TEM for radiated emission measurements.
<b>V. TEST REPORTS</b> ( <i>Assessor should request to review several sample test reports for various types of products.</i> )			<b>Comments</b>

Y		49. Does each of the test reports contain all the required information and does the laboratory follow the report disposition procedure (C63.4-2003, Clauses 10.1 and 10.2/C63.4-2009, Clauses 10.2 and 10.3, and 47 CFR Part 2)?	
Y		50. Does the test report reference the standard used (C63.4-2003, Clause 10.1.1/C63.4-2009, Clause 10.2.1 and FCC Public Notice DA 09-2478) and define any deviations (C63.4-2003, Clause 10.1.9/C63.4-2009, Clause 10.2.9 and FCC Public Notice DA 09-2478)?	
Y		51. Is the rationale for selecting and arranging the EUT clearly stated and are the components of the EUT system clearly identified per C63.4-2003, Clause 10.1.2 (C63.4-2009, Clause 10.2.2)?	
Y		52. Does the test report include photographs or detailed sketches of the EUT configuration per C63.4-2003, Clause 10.1.12 (C63.4-2009, Clause 10.2.12)?	
Y		53. Does the measurement report include a sample calculation with all conversion and correction factors used? (C63.4-2003, Clauses 10.1.4, 10.1.5 and 10.1.8/C63.4-2009 Clauses 10.2.4, 10.2.5 and 10.2.8)	
<b>VI. PERSONNEL COMPETENCY</b> <i>(The following is a list of general or lead-in questions, which are intended to be used as a guide to assess competency of laboratory personnel. Additional specific questions should be used to determine the technical competency of the personnel performing the measurement.)</i>			<b>Comments</b>
Y		54. Are laboratory personnel able to obtain recent and appropriate interpretations of the FCC Rules?	
Y		55. Do the test personnel know how to determine if an emission is from the EUT or is an ambient signal? Do the test personnel know how to handle an emission that is close to, or coincident with, an ambient signal? (C63.4-2003, Clause 5.1.2/C63.4-2009, Clause 5.1.2)?	

Y			56. Do the test personnel know how to identify and avoid potential overload conditions of the test instrumentation? (C63.4-2003, Clause 4.1.1.2/C63.4-2009, Clause 4.2.2 and Annex H.3)	
Y			57. For measurement of ISM equipment, are the test personnel knowledgeable of the intricacies and special procedures in MP-5 and the rules in 47 CFR Part 18?	
Y			58. Can the test personnel explain the FCC requirements for testing a product in accordance with the requirements in 47 CFR §§15.31-15.37? Are the test personnel knowledgeable of the FCC testing conditions for different types of products?	
		N/A	59. For a testing laboratory providing <i>in-situ</i> testing services, can the test personnel satisfactorily describe how measurements would be performed at the user's location (consistent with ANSI C63.4-2003, Clauses 5.6 and 8.3.2/C63.4-2009, Clauses 5.6 and 8.3.3, and IEEE 139)	Laboratory doesn't provide in-situ testing.
Y			60. Have one of the laboratory personnel, at each type of site, replicate at least three frequency points on the horizontal site attenuation and at least three frequency points on the vertical site attenuation. Is the test performed correctly and is the site attenuation data at these frequencies consistent with the previously recorded data?  <i>Note: Pick frequencies from previous data that have both low and high deviations from the NSA.</i>	

I hereby attest that at the time of assessment, the laboratory's technical capabilities met the aforementioned requirements based on a reasonable assessment sampling basis subject to effective corrective action for any nonconformities noted in the overall Accreditation Body (AB) reports of the assessment.

  
 \_\_\_\_\_  
 Assessor(s) Signature

*April 4 / 2013*  
 \_\_\_\_\_  
 Date



**Annex A: Site Attenuation Information**

Please complete the Site Attenuation information below during the on-site assessment.

NSA measurement verification facility address:	[REDACTED]
	[REDACTED]
Site Description (i.e., 3 m, 10 m, OATS, Chamber):	10m OATS with fiber-glass enclosure around EUT, large enough to cover 3m test distance

**Note:** Acceptance value is +/- 4 dB from the theoretical value (C63.4-2003, Clause 5.4.6/ C63.4-2009, Clause 5.4.4, *Site quality validation*).

Transmit antenna height: 1m				
Test distance: 10m				
<i>Frequency (MHz)</i>	<i>Old Value (dB) (Deviation from Theoretical NSA)</i>	<i>New Value (dB) (Deviation from Theoretical NSA)</i>	<i>Polarization</i>	<i>Position</i>
30	3.8	-3.8	Vertical	center
180	-2.3	-2.1	Vertical	center
800	0.3	0.7	Vertical	center
Transmit antenna height: 1m				
Test distance: 10m				
<i>Frequency (MHz)</i>	<i>Old Value (dB) (Deviation from Theoretical NSA)</i>	<i>New Value (dB) (Deviation from Theoretical NSA)</i>	<i>Polarization</i>	<i>Position</i>
40	0.0	1.8	Horizontal	center
160	0.7	1.5	Horizontal	center
900	-1.6	-2.2	Horizontal	center



## Scope of Accreditation For

[REDACTED]  
[REDACTED]  
6 [REDACTED] 19

In recognition of a successful assessment to ISO/IEC 17025 2005 and the requirements of the L-A-B Electromagnetics Compatibility & Telecommunications Laboratory Accreditation Program (EMC & T LAP), accreditation is granted to [REDACTED] to perform the following tests:

Accreditation granted through: June 4, 2013

### Testing – Electrical - EMC / EMI

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Measurement of Radio-Noise Emissions From Low-Voltage Electrical and Electronic Equipment	9 kHz to 18 GHz	ANSI C63.4 - 2003		

Notes:

- 1) This laboratory offers commercial testing service.

↑  
 changed the range [REDACTED] 4/4/13  
 [Signature] 4-4-13  
 [Signature] 4-4-2013

Issued: 6/4/12      Revised: 6/20/12



## Form 218.1 Technical Review Checklist

### Assessment Information

<b>Company Name</b>		<b>Date(s) of Assessment</b>	<b>Start:</b> 4/3/13	<b>Finish:</b> 4/4/13
<b>Location (site)</b>		<b>Assessment Type</b>	Year 0 Reassessment	
<b>L-A-B Program(s)</b>	LABPR 408 EMC			
<b>Lead Assessor</b>	Jason Stine	<b>Team Assessor / Tech Expert</b>	Victor Kuczynski	
<b>L-A-B Reviewer</b>	Ryan Fischer	<b>Date</b>	4/16/13	<b>TAG Reviewer</b>
				David Zimmerman
		<b>Date</b>	4/16/13	<b>Date</b>
				4/16/13

### Signatures of Approval

	D Hausch	4/16/13
Signature of L-A-B Admin Staff (Division Coordinator, Office Manager, Technical Support)	Print Name	Date
	David Zimmerman	4/29/13
Signature of TAG Reviewer (If necessary)	Print Name	Date
	Ryan Fischer	4/19/13
Signature of L-A-B Reviewer (If necessary)	Print Name	Date
	RDL	4/29/13
Signature of L-A-B Program Manager or Managing Director	Print Name	Date



## Form 218.1 Technical Review Checklist

### L-A-B Technical Reviewer Recommendation

Recommendation	INDICATOR	Comments
Unconditional Approval		
Conditional Approval		
Suspension Recommended		
Additional Review Necessary	<i>X OK</i>	Review of the uncertainty budgets to be completed by L-A-B TAG Member. <i>Review Done by 4/29/13</i>

### TAG Technical Reviewer Recommendation

Recommendation	INDICATOR	Comments
Unconditional Approval		
Conditional Approval		
Suspension Recommended		
Additional Review Necessary	<i>X OK</i>	In order to add ANSI C63.4 – 2009 to the scope of accreditation, the uncertainty figures for that test method will need to be reviewed. As for the current scope which shows ANSI C63.4 – 2003, if the uncertainty budget has been reviewed, then no further review is necessary for that test method. <i>Review Done by 4/29/13</i>

### Assessment Package Documentation

Documentation Requirements for Assessment	Date Sent to L-A-B	
	Electronic	Hard Copy
Assessment Summary (one submitted for each site, signed by assessor and client)	X	
Participants List	X	
Assessment Checklist (Form 48B, Form 214.2, Form 214.3, Form 403.3, etc.)	X	
Assessor & Client Approved Signed Scope of Accreditation	X	
Supporting Uncertainty Budgets for the Scope (Calibration / Dimensional Measurement Labs)	X	
Needs Assessment (and supporting uncertainties, if necessary) (Testing Labs)	X	
Traceability Tracking (submitted as completed by the laboratory)	X	
Non-compliance Report (Where necessary)	X	
ILC / PT Tracking and Laboratories most recent PT results	X	
Technical Competency Assessments (Form 205.1, Form 403.2, etc)	X	
Complete Expense Report (Must be sent to Accounting within 5 days of completion of the assessment)	x	

## Form 218.1 Technical Review Checklist

### Technical Review

Assessment Package Section	C / NC	Notes / Remarks
<b>Section 1 – Assessment Plan / Assessment Report / Participants List</b>		
<b>Assessment Plan</b> Verify that the Opening Meeting is within the assessment plan.	C	<u>L-A-B Admin Review</u> : Reviewed and approved. Opening meeting included on assessment plan; dh
<b>Assessment Report</b> Verify completeness. Must include comments on competence and conformity.	C	<u>L-A-B Admin Review</u> : Review and approved. Summary included on form 14 assessment report; dh
	C	<u>L-A-B Technical Review</u> : Assessment summary within the file. Summary provides a good narrative on the activities that took place during the assessment. Report identifies that there is a change to a scope range and 0 noncompliance's.
<b>Participants list</b> Verify availability and completeness.	C	<u>L-A-B Admin Review</u> : Reviewed and approved. dh
<b>Section 2 – Assessment Checklist</b>		
<b>Assessment Checklist</b> Verify completeness. Necessary for initial, full and surveillance assessments.	C	<u>L-A-B Technical Review</u> : Form 48B completed for the reassessment. Client provided a pdf version and completed the "Your Document" column. Checklist completed with expected level of detail on the observations made during the assessment.
	C	<u>TAG Review</u> : Form 48B is populated, and almost every line item has a comment associated with it. The items on the checklist appear to have been appropriately investigated for compliance.
<b>Section 3 – Scope of Accreditation / Uncertainty Budgets / Needs Assessment / Traceability Tracking</b>		
<b>Assessor and Client signed Scope of Accreditation</b> This should have the client and Assessor's signature. It should be reviewed for accuracy of scope. This must be present for all assessments.	C	<u>L-A-B Technical Review</u> : Proposed scope provided with signatures from the assessment team and client. Change identified on the proposed scope as referenced on the Form 14.
	C	<u>TAG Review</u> : There is a PDF version of form 28.6 that is signed by the client and assessor.

**Form 218.1 Technical Review Checklist**

Assessment Package Section	C / NC	Notes / Remarks
<p><b><u>Testing Laboratories</u></b> <i>Needs Assessment</i> The current year's documentation of uncertainty, if necessary. See Policy 001 for guidance to evaluate compliance.</p>	C	<p><u>L-A-B Technical Review:</u> Needs assessment provided identifying Type D test. The uncertainty provided and further review by TAG member is needed.</p>
<p><i>Traceability Tracking</i> Assure availability and suitability.</p>	C	<p><u>L-A-B Technical Review:</u> Traceability Tracking Form meets the requirements of Policy 001 and sources of traceability are compliant with the policy as well.</p>
<p><b>Section 4 – Non-Compliance</b></p>		
<p><b><i>Corrective Action – L-A-B Review</i></b>  Verify evidence is sufficient for closure of Non-Compliance.  Laboratory shall submit their internal corrective action along with sufficient evidence that the corrective and preventive action has been implemented. The evidence of implementation shall be present in the technical package.</p>	N/C #	L-A-B Technical Review - Comments
<p><b><i>Corrective Action - TAG Review</i></b>  Verify evidence is sufficient for closure of Non-Compliance.  Laboratory shall submit their internal corrective action along with sufficient evidence that the corrective and preventive action has been implemented. The evidence of implementation shall be present in the technical package.</p>	N/C #	L-A-B Technical Review - Comments

**Form 218.1 Technical Review Checklist**

Assessment Package Section	C / NC	Notes / Remarks
<b>Section 5 – Proficiency Testing</b>		
<p><b>Proficiency Testing</b> Verify laboratory Proficiency Testing activities have been reviewed and documented as part of the assessment package. Verify unique identification of participant. Assure current years PT is properly identified and data is available</p>	C	<u>L-A-B Technical Review:</u> As noted in the Form 48B The laboratory performs quality assurance activities where possible that support compliance with these requirements. The laboratory has very limited options available for the use of an approved PT provider but there does appear to be at least one approved provider offering a PT program. The laboratory has participated in this program. At the time of the assessment the final results were not completed by PT provider. The PT provider is currently compiling the data from other participants. Data will be provided to L-A-B once completed by the provider.
	C	<u>TAG Review:</u> As explained above by the L-A-B Technical Reviewer, the laboratory has participated in a PT program however, the results have not yet been provided to the lab by the PT provider.
<b>Section 6 – Technical Competence Evaluation</b>		
<p><b>Technical Competency Assessments</b> Verify form is completed with sufficient detail to establish the scope of the technical competence evaluation performed by the technical evaluators. This form should list the specific items from the scope witnessed and which laboratory personnel were involved in the witnessing.</p>	C	<u>L-A-B Technical Review:</u> Form 205.1 completed for the scope and Form 406 for FCC Technical Checklist questions have been addressed.
	C	<u>TAG Review:</u> Form 406 has been completed and signed indicating that the laboratory personnel are technically competent.

Any special notes or observations should be reported here.

<p><b>Comments from L-A-B Admin Staff</b> (Division Coordinator, Office Manager, Technical Support): None.</p>
<p><b>Comments from L-A-B Technical Review:</b> No further comments needed.</p>
<p><b>Comments from TAG Technical Review:</b> The assessment appears to have been thorough, and professionally performed. All documents appear to be in order, and properly populated.</p>



## Scope of Accreditation For

[REDACTED]

In recognition of a successful assessment to ISO/IEC 17025 2005 and the requirements of the L-A-B Electromagnetics Compatibility & Telecommunications Laboratory Accreditation Program (EMC & T LAP), accreditation is granted to [REDACTED] to perform the following tests:

Accreditation granted through: June 4, 2016

### Testing – Electrical - EMC / EMI

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Measurement of Radio-Noise Emissions From Low-Voltage Electrical and Electronic Equipment	9 kHz to 18 GHz	ANSI C63.4 - 2003		

#### Notes:

- 1) This laboratory offers commercial testing service.

Approved by:

R. Douglas Leonard  
Chief Technical Officer

Date: May 2, 2013

Reissued: 5/2/13



**LABORATORY  
ACCREDITATION  
BUREAU**



# Certificate of Accreditation

**ISO/IEC 17025:2005**

**Certificate Number** [REDACTED]

[REDACTED]

has met the requirements set forth in L-A-B's policies and procedures, all requirements of ISO/IEC 17025:2005 "General Requirements for the competence of Testing and Calibration Laboratories" and the requirements of the L-A-B Electromagnetics Compatibility & Telecommunications Laboratory Accreditation Program (EMC & T LAP).\*

The accredited lab has demonstrated technical competence to a defined "Scope of Accreditation" and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Accreditation valid through: June 4, 2016

**R. Douglas Leonard, Jr., President, COO  
Laboratory Accreditation Bureau  
Presented the 2<sup>nd</sup> of May 2013**

\*See the laboratory's Scope of Accreditation for details of accredited parameters

\*\*Laboratory Accreditation Bureau is found to be in compliance with ISO/IEC 17011:2004 and recognized by ILAC (International Laboratory Accreditation Cooperation) and NACLA (National Cooperation for Laboratory Accreditation).