



## Supplier Quality Manual

SQ02-0020

## 1. Purpose

The purpose of this manual is to define the basic quality systems and business procedures required of external providers who currently or potentially manufacture and/or supply production material and/or services to Skyworks.

This manual also defines quality requirements, business practices, and applicable documents for these external providers to maintain their status as an approved supplier.

This manual, the Commercial Agreement, the Nondisclosure Agreement, and the Skyworks purchase orders are intended as the agreement on all the terms and provisions. This manual supersedes any prior written or oral agreements concerning any of the subject matter of this manual.

## 2. Scope

This procedure applies to Skyworks' external providers of Level 1 materials and Level 4 services that directly affect the form, fit, function, performance, and/or durability of the finished product.

## 3. Definitions

Terminology	Definition
<b>Approved</b>	The supplier status is such that Skyworks' Sourcing may buy qualified products from that supplier.
<b>ASL</b>	Approved Supplier List housed in the Lotus Notes "SWKS Supplier Management" database.
<b>Camline SQM</b>	Supplier Quality Management is a new system being deployed for the management of eCoC or eCoA data, including an SPC engine (SPACE) that controls conformance to specification and control limits as applicable.
<b>Certificate of Analysis (CoA)</b>	A signed document that provides quantitative data for the items being delivered certifies that the product conforms to all purchase order requirements and reference specifications.
<b>Certificate of Conformance (CoC)</b>	Signed document certifying that delivered products conform to all purchase order requirements and reference specifications.
<b>Disqualified</b>	Supplier status such that no further orders may be placed.
<b>Durability</b>	The probability that an item will continue to function at customer expectation levels, at the useful life, without requiring overhaul or rebuild due to wear-out.
<b>eCoC or eCoA</b>	Electronic form of CoC or CoA.
<b>Fitness for Use</b>	Product or service that fits Skyworks' defined purpose, under anticipated or specified operational conditions (e.g., JEDEC or other industry standards).
<b>Level 1 Material</b>	Goods used in the manufacture of finished products that directly affect the form, fit, function, performance, and/or durability of the finished product.
<b>Level 4 Service</b>	Service provided by an external provider that directly affects the form, fit, function, performance, and/or durability of the finished product.
<b>MPS</b>	Material Purchasing Specs is a controlled document that provides requirements and specifications of purchased material.
<b>QML</b>	The Qualified Material List provides the list of critical materials that shall follow this procedure. QML provides the material qualification status by source and by Skyworks plant
<b>Remaining Shelf Life</b>	The material lifetime before reaching the material expiration date at the time of delivery.
<b>RMA</b>	Returned Material Authorization is typically a requirement for returning nonconforming products to the supplier.
<b>SCAPA</b>	<a href="#">Supplier Corrective Action / Preventive Action Request, a formal request for improvement issued to an external provider.</a>
<b>Shelf Life or Shelf-Life Duration</b>	Guaranteed material lifetime as defined by the material manufacturer. The manufacturer guarantees that all specified parameters remain within the limits specified in the MPS throughout the material's shelf life.
<b>SQE</b>	Supplier Quality Engineer.
<b>SQM</b>	Supplier Quality Management (SQM) is a new system/software being deployed for the management of eCoC or eCoA data, including an SPC engine that controls conformance to specification and control limits as applicable.
<b>Sub Tier Suppliers</b>	Suppliers used by an external provider to Skyworks, i.e., the supplier's supplier.
<b>Supplier</b>	An external provider of goods or services to an organization.
<b>8D</b>	Problem Solving Methodology based on the eight disciplines.

## 4. External Provider Management

Supplier terms and conditions of purchase are outlined in **SQ04-0019 General Terms and Conditions**. Additional supplier quality expectations are included in Section 5 of this document. Conformance to these requirements is verified by means of supplier surveys, requested self-appraisals, and on-site assessments performed by Skyworks or a third party. All requirements in each applicable element shall be fulfilled for an external provider to be considered qualified to provide materials or services to Skyworks.

### 4.1. Supplier Qualification

Detailed work instructions regarding the assessment and qualification of external providers are contained in **SQ03-0138 Supplier Qualification and Monitoring**.

### 4.2. Supplier Monitoring

The procedures and requirements of the performance monitoring function for external suppliers are captured in **SQ03-0138 Supplier Qualification and Monitoring**. Supplier performance is monitored monthly based on a demerit system that gives equal weight to quality and delivery. Suppliers that fall below the criteria specified in SQ03-0138 are placed on probation, and improvement actions are formally requested; suppliers that fail to show improvement may be disqualified.

### 4.3. Supplier Development

The development of Skyworks' external providers is achieved by multiple means guided by the principles of engagement, customer focus, continuous improvement, and data-driven decision-making. These tenets drive for quality improvements in all aspects of the supplier-customer relationship, from delivery, cost, and performance to customer satisfaction. In addition to the sustaining relationships that drive improvement within the context of ongoing qualification and monitoring activities, further development of external providers is actively targeted by Skyworks. The identification of risks and opportunities associated with external providers, as well as action plans to address these issues, is fundamental to the supplier development function. Supplier development is further supported by the active use of the following tools:

Supplier Development Reviews per **SQ03-0037 Supplier Development Review**.

Surveillance audits performed per **SQ03-0218 Supplier Audit Protocol**.

## 5. External Provider Expectations

### 5.1. Corporate Policies and Objectives

It is the policy of Skyworks that materials and services used in the design and production of Skyworks products be procured professionally and ethically, resulting in achieving the lowest total cost of ownership for Skyworks and our customers. Further, all purchased materials and services must be in compliance with agreed-upon requirements, be delivered on time, and have competitive lead times and prices.

#### 5.1.1. Confidentiality

Confidentiality shall be strictly maintained in accordance with the supplier terms and conditions of purchase outlined in **SQ04-0019 General Terms and Conditions**.

### 5.2. Regulatory and Statutory Requirement Compliance

It is the supplier's responsibility to ensure that their product complies with all applicable regulatory, statutory, and product safety requirements and claims, including those stated in supplier-published product advertising, catalogs, and data sheets. The supplier must be prepared at all times to substantiate compliance by providing copies of test reports and making records available for review if requested.

### 5.3. Sustainability

All requirements outlined in **SQ03-0337 Skyworks Supplier Sustainability Specification** apply.

#### 5.3.1. Banned and Restricted Substances

Refer to **SQ03-0132 Green Procurement Supplier Specification** for all materials restrictions and reference to Skyworks' banned and restricted substances.

### 5.4. Customer Specific Requirements

Suppliers shall cascade all applicable statutory and regulatory requirements, and special product and process characteristics, down the supply chain to the point of manufacture.

The same quality system requirements shall apply to sub-suppliers, and the supplier is responsible for the compliance of all their sub-suppliers. Also refer to **CQI-19 Sub-Tier Supplier Management Process Guidelines**.

### 5.5. Risk Management Policy

The supplier shall have an up-to-date documented Risk Management Policy ensuring that in the event of disaster or inability to perform, the supplier has plans to take necessary action to minimize and/or eliminate such risk, from Skyworks. The supplier shall:

- Identify and evaluate internal and external risks to all manufacturing processes and infrastructure equipment essential to maintain production output.
- Define contingency plans according to risk and impact to customers, including key equipment failures, and interruption from externally provided products, processes, or services.
- Include a notification process for the extent and duration of any situation impacting customer operations.
- Periodically test and a multidisciplinary review the contingency plan for effectiveness.
- Document the contingency plan and retain documented information describing any revisions, including people authorizing the changes.
- Include the development and implementation of appropriate employee training and awareness.
- Include a provision to validate that the manufactured product continues to meet customer specifications after the restart of production following an emergency.

This needs to be provided through the completion of **SQ04-0005 Supplier Survey**. Upon request, the supplier shall provide evidence that second sources for critical supplies, materials, and components have been identified.

In the event of an interruption to the supplier's manufacturing production process, whether it be from a natural disaster, power outage, or similar, the supplier shall adhere to the following requirements:

#### Within 24 hours:

1. Notify Skyworks of the event per **SQ03-0590 Supplier Event Notification**.

#### Within 72 hours:

2. Equipment or process interruptions (alarm, abort, loss of power, etc., including partially processed materials) shall trigger standard OCAP or qualified rework or scrap.
3. Queue time or coupling time violation shall trigger standard OCAP or qualified rework.
4. Any non-recoverable materials shall be scrapped.
5. Any unqualified rework/recovery shall trigger the non-conforming material review (NCMR) protocols. Skyworks notification and approval through the **SQ04-0070 Skyworks Notification Form** or an official supplier document.
6. Supplier to provide the scrap and rework/recovery lot list for impact and risk assessment by Skyworks.

### 5.6. Notification of Product Quality or Delivery Issues

In the event a supplier causes a quality or delivery concern, they will be issued a Supplier Corrective Action Request by a Skyworks staff member initiating the concern. This format may also be used to notify external providers of other types of failures, such as warranty concerns, customer complaints due to a supplier issue, field failures due to a supplier issue, or other required documents rejection for the automotive industry.

The SCAR will define the concern and details regarding the quantity of parts identified with the concern. There are several concern classifications:

**Formal Concern:** Any concern that is formally documented by Skyworks and where formal corrective action is requested in the 8D Format. See 5.9.7 for Corrective Action Requirements.

**Formal Critical Concern:** Some formal concerns are considered critical when an impact or risk is identified and related to product safety, specification sheet requirements, reliability, design, environment, and or field action.

**Informal Concern:** A potential concern voiced by Skyworks that is not formally documented but must be addressed to drive preventive actions and continuous improvements by the supplier. The Supplier will be notified of an informal concern via email or telephone, and in case of a repeat issue will likely result in a formal concern.

**Delivery Concern:** This occurs when the supplier doesn't have the required quantity at Skyworks' facility on the target date it is due. This can be under-ship, over-ship, late, or early shipments.

**Warranty Concern:** Occurs when there is evidence that a field issue exists and is determined via product and data analysis to be caused by Skyworks' supplier.

#### 5.6.1. Supplier Charge Back

All costs incurred by Skyworks that are due to a supplier not adhering to Skyworks' quality and delivery requirements may be charged back to the responsible supplier. This includes but is not limited to customer issues, scrap, other in-process waste, warranty, and any other process fallout.

### 5.7. Product Identification

The Supplier shall have a manufacturing control system, such as a route card, run card, control software, etc., used for the identification of products regarding type, lot or serial number, and their status during all stages of production and test.

Shipments originating from any assembly and/or test location, including subcontractor shipments that are sent directly to customers, shall be labeled in accordance with **SQ03-0120 Skyworks Labeling Requirements**.

For Wafers suppliers, follow the requirements in **SQ03-0379 Wafer Labeling Requirement**.

### 5.8. Product Traceability

The external provider shall have a system for ensuring finished product traceability back to the subassembly, component, and raw materials. Traceability shall be achieved through date code, lot, and/or serial number.

### 5.9. Quality Plan

Skyworks, being a leader in the wireless industry, will continuously strive to improve Quality and provide world-class products to our customers. To ensure we can meet and maintain this objective, Skyworks expects the elements in this section to be present with its suppliers. In the event the supplier does not have an element of this plan, Skyworks will, at its discretion, decide if we want to work and assist the supplier to develop the missing element. The Quality plan may be reviewed by the Skyworks Supplier Quality Engineer before a supplier is qualified. For existing suppliers, Skyworks Quality Engineers may work with suppliers to document and/or develop an acceptable Quality Plan.

The requirement of the Quality Plan is one of the most critical steps in becoming an approved supplier to Skyworks. Skyworks intends to purchase material from suppliers on a Ship to Stock Program. This is a process where Skyworks receives parts and materials from suppliers and uses them with a minimum of internal inspection and test costs or losses resulting from the supplier's fault non-conformances. Skyworks will not accept the cost of excessive testing and poor quality, and will not pay the cost of our suppliers doing extensive testing or the resulting poor yields and escapes.

The intent is to emphasize process capability improvement and controls and/or monitoring that will have the greatest impact on quality and reliability, and ultimately zero defects, zero repeat issues, and low cost of ownership goals. Skyworks has adopted a new process audit standard, VDA6.3, see Section 5.15 for details.

The Quality Plan will normally consist of the following elements as a minimum; additional requirements may be requested by Skyworks as detailed in the following sub-sections:

#### 5.9.1. Quality System

Suppliers are expected to have an effective quality system in place that assures consistent on-time delivery of conforming products. Third-party certificates will be provided to Skyworks as part of the Supplier Survey (SQ04-0005), and when certificates are renewed, the updated certificates will be forwarded to Skyworks SQE.

Registration by an accredited third-party certification body is required as follows:

- **ISO 9001** certification is required with IATF 16949 certification as the long-term goal.
- **ISO/IEC 17025** is required for calibration and testing laboratories. The parameters and/or equipment applicable to the laboratory service being provided must be within the scope of accreditation.

Note: In the given case, if an ISO/IEC 17025 accredited laboratory or OEM is not found to calibrate measurement equipment, the selected vendor must comply with the requirements listed on the Supplier Survey (SQ04-0005) Section 5.9.1.1.

- **ANSI/ESD S.20.20** certification is required for all assembly and/or test suppliers.

Note: All third-party certificates must include a valid certification body accreditation mark.

Given the ISO9001 certification requirement, Skyworks' external providers shall have Quality management systems that support the principles of:

- Customer focus
- Leadership
- Engagement of people
- Process approach
- Improvement
- Evidence-based decision making
- Relationship management

External providers shall notify Skyworks of any change in the status of their Quality management system (e.g., change of scope, registrar, standard, etc.) in accordance with section 5.5.2. This requirement shall apply to ISO 9001, IATF 16949, and/or ISO/IEC 17025.

#### 5.9.2. Process Controls

The supplier shall plan and carry out manufacturing processes under controlled conditions that shall include:

- The use and development of control plans as outlined in the AIAG Control Plan manual.
- The use of documented work instructions available at the point of use.

- The use of suitable equipment supported by a preventive maintenance program for key process equipment.
- The use of equipment for testing, inspection, and measurement of Skyworks products. This equipment shall require Gage reproducibility and repeatability (R&R) studies to demonstrate the capability of the equipment and measuring process. These studies shall be performed using the ANOVA method outlined in the **AIAG Measurement System Analysis (MSA)** manual. All such equipment with > 10% error needs to be reported to Skyworks, and documented improvement plans shall be made available to Skyworks upon request.
- Adherence to Skyworks workmanship standards listed in section 3.0.
- The use of statistical tools such as Statistical Process Control (SPC) and capability studies (see section 5.12). The supplier shall initiate a reaction plan for characteristics that become incapable or unstable.
- A production scheduling system that supports Skyworks' delivery expectations.

#### 5.9.3. Purchasing

The external provider shall have a defined process for their purchasing process that includes:

- The use of approved sub-tier suppliers for the procurement of materials and/or services that directly affect the form, fit, function, or reliability of Skyworks products.
- A supplier development program that emphasizes the flow-down of the requirements outlined in this manual to sub-tier suppliers.
- The generation of purchasing information that clearly describes the product being purchased.
- The implementation of verification activities to ensure that the incoming product meets specified purchase requirements.
- Sub-tier supplier performance monitoring.

#### 5.9.4. Failure Mode and Effect Analysis (FMEA)

It is strongly recommended that the supplier develop a Process or Product FMEA and use those results to determine the appropriate test and inspection points and appropriate control methods. FMEA items with a severity ranking of 9 or 10 must be acted upon immediately. Other than that, actions must be taken on the top three highest-ranked risk items. In the case where 2 or more risk items have the same RPN, priority should be given to those with the highest severity. Additional information can be found in the **AIAG FMEA manual**. The supplier may also use the **SQ04-0099 Process FMEA Template**.

#### 5.9.5. Reliability

Suppliers shall have a qualification process for their products, processes, and/or components that ensures quality, reliability, and fitness for use (see section 2.0 for definition). This process must be followed for new products as well as product or process changes (see section 5.14). This process must also include ongoing (quarterly at a minimum) reliability testing that gathers and monitors reliability data on qualified production products and processes.

Component suppliers (e.g., capacitors, resistors, filters, etc.) must forward ongoing reliability reports to the Skyworks FA/Reliability department quarterly. This and other requirements are outlined in **SQ03-0353 Component Supplier Reliability Requirements**. Internal supplier qualification shall meet the sample size requirements outlined in this procedure, where applicable.

Other suppliers may be requested to provide these reports on an as-needed basis.

#### 5.9.6. Production Part Approval

Skyworks may request suppliers to conform to the production part approval process as outlined in **SQ03-0472 Supplier Production Part Approval Process**.

#### 5.9.7. Corrective Action and Failure Analysis

Skyworks will use a Supplier Corrective Action Request (SCAR) as the trigger to engage the supplier for a request for containment, root cause analysis, corrective action, and verification. All suppliers' responses must be in an 8D format; you may use form **SQ04-0372 Supplier 8D**.

The supplier must have a formal 8D process with evidence that key personnel have been trained. Failure Analysis capabilities and support need to be identified in the Quality Plan.

For a thorough root cause analysis, suppliers must use Drill Deep/Read Across, also called 3x5 Why Root Cause Analysis per **SQ03-0159 Drill Deep and Wide** using **SQ04-0092 Worksheet**, Fishbone, Fault-tree, or 5 whys. Additional root cause investigation tools can be used, such as Is/Is not, DMAIC, etc.

The initial response (3D) needs to be provided within 1 business day of the receipt of samples. The root cause analysis and corrective action plan (5D) shall be provided within 10 business days of the receipt of samples. The actual deployment and verification of corrective actions (6D through 8D) may take longer based on the complexity of the problem.

#### 5.9.8. Maverick Lot Program

Skyworks encourages suppliers to have a Maverick lot program in the spirit of **JESD-50**. Where applicable, the supplier shall use statistical methodology to set Maverick limits. Supplier shall notify and seek Skyworks Supplier Quality Engineering's approval before shipping any Maverick lots.

#### 5.9.9. Document Control System

Skyworks requires suppliers to have a Document control system in place. Suppliers must ensure that the latest Skyworks specifications, work instructions, and other related documents are maintained in this system for a minimum of 5 years.

For Automotive Programs, IATF 16949 Record Retention Requirements must be followed.

#### 5.9.10. Internal Quality Audits

Suppliers shall perform internal quality audits following documented procedures and control plans. The supplier shall also review audit results, plan corrective action(s), and perform follow-up verification of corrective action(s) and their effectiveness.

The supplier will publish the frequency of internal audits performed in the supplier facility in the Quality Plan. Periodically, the supplier may be requested to share details of the internal audits and follow-up items with the Skyworks Supplier Quality Engineer.

#### 5.9.11. Resource Management

##### 5.9.11.1 Human Resources

External providers shall ensure that personnel performing work affecting product quality or the quality management system are competent based on appropriate education, training, skills, and experience. External providers shall determine competency requirements, assess employee competence, and

maintain associated records as evidence. For audit service providers, auditor competence records must be made available to the Skyworks SQE representative so that auditor competence requirements can be verified before the audit.

#### **5.9.11.2 Work Environment**

External providers shall determine and manage the aspects of the work environment necessary to achieve conformity to product requirements. Examples of aspects may include, but are not limited to, temperature, humidity, cleanliness, and electrostatic discharge protection.

External providers who handle ESD-sensitive parts are expected to establish and maintain an ESD management system per **ANSI/ESD S20.20** (see section 5.8.1).

#### **5.9.12. Problem Resolution, Escalation, and Key Contacts**

The external provider shall define who has the authority to resolve quality, technical, and supply issues, and the escalation process to the next level of management if a decision can't be reached at any level.

The external provider is expected to designate a key contact person and furnish their name, daytime phone number, mobile number, and email address. This individual will be the owner for taking action on quality alerts and ensuring all reports and corrective action requests are rendered to Skyworks in a timely fashion. The external provider will be responsible for always assuring the availability of this individual or an available backup to Skyworks.

### **5.10. Reports**

All shipments must be accompanied by a certificate of conformance and/or certificate of analysis traceable back to the items being delivered.

The external provider may be requested to provide periodic reports or summary reports of inspection or test results. The Skyworks Supplier Quality Engineer may review the metrics and reporting formats, and frequency. Additionally, the supplier may be requested by the Skyworks Supplier Quality Engineer to provide periodic summary reports of FA and evaluation results on SCARs / RMAs. These will need to be in the format prescribed by the Skyworks Supplier Quality Engineer.

#### **5.10.1. Calibration Reports**

For calibration service providers, calibration reports must include evidence of conformance to requirements. Calibration shall be performed following the manufacturer's specifications unless otherwise noted on the purchase order. The calibration report shall include, as a minimum, the following information:

- Equipment identification, including the measurement standard against which the equipment is calibrated and traceable to international or national measurement standards. The associated standard's last calibration date and the next due date as part of the report. When no such standards exist, the basis used for calibration or verification shall be indicated.
- Any out-of-specification readings as received for calibration/verification.
- A statement of conformity to specification after calibration/verification.
- Revisions following engineering changes.

#### **5.10.1.1. Tamper-Proof Seals**

For Calibration Providers, if tamper-proof seals need to be broken to calibrate equipment or replace batteries, seals must be replaced upon return from calibration.

### **5.11. External Provider Self-Assessment Survey**

**SQ04-0005 Supplier Survey** shall be completed by the supplier during the initial supplier qualification and will be kept on file by Skyworks. An updated survey may be requested by the Skyworks Supplier Quality Engineer if deemed necessary.

### **5.12. Capability Indices**

The supplier shall establish a procedure to ensure that critical **CPKs are  $\geq 1.67$  but less than 3.0**. This procedure may be reviewed by the Skyworks Supplier Quality Engineer. For those critical CpK that are  $< 1.67$  and  $> 3.0$  for three consecutive months, documented improvement plans shall be made available to Skyworks upon request.

### **5.13. Control of Skyworks Owned Products or Equipment**

Secondary materials (such as carrier tape, trays, packaging, etc.) and consigned material provided or specified by Skyworks shall be verified to meet Skyworks requirements and fitness for use before being accepted.

Custom-owned equipment and/or tooling purchased by Skyworks shall remain the property of Skyworks. All Skyworks-owned equipment and tools will be marked with Skyworks' control numbers before shipment to an external provider.

Skyworks-owned equipment, tools, test correlation parts, secondary materials, or consigned materials shall be controlled, stored, handled, and maintained in a manner that protects against loss and damage.

For Skyworks-owned measurement equipment that requires calibration, an Accredited ISO/IEC 17025 or national equivalent supplier with a relevant scope of accreditation shall be used to calibrate the equipment. Calibration certificates need to be sent to Skyworks' point of contact to demonstrate compliance with this requirement.

### **5.14. Supplier Initiated Notifications**

#### **5.14.1. Product / Process Changes**

The Supplier shall have a process to manage and track changes per **SQ03-0393 Supplier Product / Process Change, Waiver, and Supplier Alert Notification Requirements**.

When submitting a Process Change Notice, the supplier shall complete the **SQ04-0070 Skyworks Notification Form** and provide a process map that highlights the process changes that are being proposed.

Manufacturing validation activities for new process qualifications must be coordinated in alignment with Skyworks' Technical Review Board processes.

In case of non-conformance to Skyworks' PCN process, the external provider will be responsible for all costs incurred by Skyworks (or its subcontractors) related to such non-conformance.

The Supplier should review and proactively send an Advance PCN (APCN) every 6 months with a minimum forecast of 2 years. It should be sent in the first week of October of the current year (first half of the fiscal year) and next in the first week of April of the following year (second half of the fiscal year).

#### 5.14.2. Waivers or Alerts

Delivery of products to Skyworks not meeting the supplier's internal manufacturing specifications for measurements, as identified on the control plan, acceptance criteria, outlier limits, Maverick limits, or Skyworks specifications should be prevented.

Supplier to review suspect non-conforming material or product through a cross-functional Material Review Board (MRB) to determine the acceptability of shipping material to Skyworks. Material found to be non-conforming should not ever be shipped to Skyworks.

Suppliers shall generate a waiver request to Skyworks' Supplier Quality Engineer specifying the nature of the deviation, associated MRB data, and why the supplier believes the deviation will not impact Skyworks' product performance, quality, safety, reliability, or yield.

For deviations detected after the material/product has already been shipped to Skyworks, the generation of an Alert is required. This applies to all deviations, even if the initial assessment is that such a deviation may not impact conformity (specs).

The supplier may generate a waiver or an alert request per **Form SQ04-0070 Skyworks Notification Form**.

#### 5.15. Second Party Audits

Second-party audits can be conducted on-site or remotely at the direction of Skyworks. Suppliers must ensure access to virtual auditing tools when needed to facilitate remote audit requests.

Skyworks audit types can be, but are not limited to, Process Audits, Product Audits, Quality Systems Audits, etc. The Lead Auditor will define the type, scope, dates, and agenda of the Audit.

Audits shall be performed, recorded, and tracked following **SQ03-0218 Supplier Audit Protocol**, and the Supplier must close all Action Items identified during the Audit in less than 90 days.

Skyworks is using VDA 6.3 as a tool for the process audits, and the checklist is documented in **SQ04-0338 – Process Audit Workbook**.

#### 5.16. Cyber Attack Response Plan

In the event of an incident involving Skyworks data or systems, the Supplier shall perform the following steps:

1. Gather and provide the following information noted in the table below:

Information	Description
Timing of Incident	Date of the incident or date it was first discovered
Type of Incident	DDoS, ransomware, malware, unauthorized access or disclosure, data exfiltration, etc.;
Nature of incident	Description of the incident and how it relates to Skyworks. If data has been exfiltrated, please provide details on the type of data that was exposed and how it occurred.
Source of incident information	Source of the incident. Was it reported by a user, through another third party or sub-provider, an audit/assessment, etc.
Investigation details	Actions taken to confirm the potential scope and impact of the incident
Remediation Activities	Mitigation activities to reduce the effects of the incident. What action has the supplier taken to contain and remediate the incident? Has the vendor engaged a 3rd party? Involved in law enforcement or informed regulatory authorities?
Impact Analysis	Is the process used to determine that Skyworks' information resources (data/ systems) were affected. Please provide audit logs as it relate to Skyworks data.

2. Notify Skyworks of the incident within 48 hours of discovery by emailing [cybersecurityteam@skyworksinc.com](mailto:cybersecurityteam@skyworksinc.com) and providing the above information to Skyworks.
3. Reach out to your Sourcing Contact to schedule a call with Skyworks' Cybersecurity department to provide further details on the incident and determine next steps.
4. Based on the nature and severity of the incident, Skyworks may implement risk mitigation activities that may include:
  - Revoking all supplier access to all Skyworks' systems and resources.
  - Isolating network access or disabling certain services.
  - Shifting to an alternate supplier.
  - Activating Skyworks' business continuity plan.

#### 5.17. Software Development Capability Assessment

Skyworks expects its suppliers to maintain a robust and well-documented software development process. Suppliers should utilize a formal methodology to assess their software development capabilities, with prioritization based on risk and potential customer impact. A documented self-assessment of software development capability must be retained and used to drive continuous improvement. Software development activities should be included within the scope of internal audits, with findings tracked and resolved. Additionally, suppliers are expected to manage software configuration and version control, define acceptance criteria, and provide test reports to validate software performance. Where applicable, suppliers should also monitor and assess their own suppliers' software capabilities through performance indicators and second-party audits.

### 6. Associated Documents

Access to generic Skyworks documentation is provided via our [Supplier Web Site](#). Access to product-related documents is enabled through the Agile system, with a Login required.

**Applicable to ALL suppliers:**

Document Number	Document Title
SQ03-0132	Green Procurement Supplier Specification
SQ03-0138	Supplier Qualification and Monitoring
SQ03-0337	Skyworks Supplier Sustainability Specification
SQ03-0353	Component Supplier Reliability Requirements
SQ03-0159	Drill Deep and Wide
SQ03-0393	Supplier Product / Process Change, Waiver, and Supplier Alert Notification Requirements
SQ03-0472	Supplier Production Part Approval Process
SQ04-0005	Supplier Survey
SQ04-0019	General Terms and Conditions
SQ04-0099	Process FMEA Template
SQ04-0070	Skyworks Notification Form
SQ03-0467	Skyworks General Manufacturing Requirements for SMT Placed Components
SQ03-0590	Supplier Event Notification
SQ04-0092	Drill Deep / Read Across Worksheet
SQ03-0037	Supplier Development Review
SQ03-0218	Supplier Audit Protocol
SQ04-0338	Process Audit Workbook
SQ04-0372	Supplier 8D

**Applicable to Foundries and Assembly suppliers:**

Document Number	Document Title
SQ03-0038	Wafer Acceptance Criteria GaAs (pHEMT and HBT) and Silicon CMOS Wafers
SQ03-0314	Silicon Diode Wafer Acceptance Criteria for Sub-Cons Silicon Diode Wafers

**Applicable to Probe and Test suppliers:**

Document Number	Document Title
SQ03-0050	Test Transfer Correlation Procedure
SQ03-0120	Skyworks Labeling Requirements
SQ03-0379	Wafer Labeling Requirement

**Applicable to Fab suppliers:**

Document Number	Document Title
SQ03-0679	SQM eCoA Supplier Training

**National and International Standards referenced in this document and applicable to all suppliers**

Document Number	Document Title
ANSI/ESD S.20.20	Development of an Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment.
IATF 16949	Quality Management System Standard for the Automotive industry
APQP	AIAG Advanced Product Quality Planning and Control Plan Manual
FMEA	AIAG Failure Mode Effects Analysis Manual
ISO 9001	Quality Management Systems – Requirements
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories
JESD-50	Special Requirements for Maverick Product Elimination
MSA	AIAG Measurement Systems Analysis Manual
PPAP	AIAG Production Part Approval Process Manual

**7. Reason for Change**

<i>Number shall match Doc Header</i>	<i>When was the change promoted?</i>	<i>Who is promoting the change?</i>	<i>Describe the change made to this document</i>	<i>Explain what triggered the change</i>	<i>Identify positive or negative consequences to the organization</i>	<i>How do you plan to deploy this change and what will be the impact to associated documents?</i>	<i>What group will be responsible to execute this change?</i>
<b>Revision</b>	<b>Date</b>	<b>Initiator</b>	<b>Change Description</b>	<b>Change Purpose</b>	<b>Potential Consequences</b>	<b>Deployment Strategy</b>	<b>Impacted Function</b>
44	3/20/23	Monica Morales	A new Word document template was applied to the document. Added SQ03-0679 as a reference document. Section 5.14.1 Updated with the Advance PCN requirement. Introduced the usage of the word durability and included it under the definitions table.	Process Update	Communication of the requirements	QSI Distribution and Supplier notification through the Skyworks supplier portal on the Webpage	Supplier Quality and Quality Systems
45	08/01/24	Monica Morales	Added requirements details in section 5.5 in case of interruptions at the supplier manufacturing process. Updated cybersecurity email in Section 5.16 Added detail on the Advanced PCN forecast in Section 5.14.1 SQ04-0338 updated the name to Process Audit Workbook Details added to section 5.9.7	Process Update and clarification details.	Communication of the requirements	QSI Distribution and Supplier notification through the Skyworks supplier portal on the Webpage	Supplier Quality and Quality Systems
46	12/13/24	Monica Morales	5.5 Added the time to adhere to the interruption requirements. 5.9.9 Added Retention Time Period. Remove Referenced Document SQ03-0268 due to obsolescence.	Process Details	Communication of the requirements	Approval of this document and Supplier Notification through the Skyworks supplier portal on the Webpage	Supplier Quality and Quality Systems
47	Sep 2 2025	Monica Morales	Added Section 5.17 Section 5.5 Modified the time to adhere to the interruption requirements.	New Section and included as part of the Supplier Survey SQ04-0005 rev 38	Communication of the requirements	Approval of this document and Supplier Notification through the Skyworks supplier portal on the Webpage	Supplier Quality and Quality Systems