Backwall Reader (Tower) In Process Q/A

VR102601	
Reference Drawing:	VR102601-Interconnect Diagram_Rev A
Family Tree:	ISO-FAM-001
Q/A Checklist Reference:	Backwall Reader (Tower) QA Checklist Rev. E (ISO-QAC-52)
Sequence	

In Process Inspection_01

1	Plastics have been routed & deburred per Engineering specifications. **(Machining process M001 & M002; Part # VR102681/102682)**
2	Verify that Lot # of HDPE has been recorded.

In Process Inspection_02

1	Ground Plane cut to correct dimension and installed to routed HDPE.
2	Install FR4 with glue to HDPE using Heat Process per Engineering procedure.
3	Verify that Lot # of FR4 has been recorded.
4	Verify Mux Boards have been created and assigned an asset number in the database. (Primary & Secondary)
5	Verify Mux Boards have been installed in correct order to routed HDPE. (Primary & Secondary)
6	Inspect solder joint from ground plane to mux boards.
7	Inspect solder joints for feedlines to mux boards.

In Process Inspection_03

1	Verify M6e ThingMagic reader (Product ID # 225029) has been created and assigned an asset number in the database.
2	Verify M6e ThingMagic reader (Product ID # 225029) has a passing test per Engineering Test Procedure.
3	Verify that the Interface board has been installed per interconnect diagram VR102601.
4	Ensure cables have been tested by an identifying green dot (In-House Built). ***(If outsourced cables are used verify Lot # has been recorded.)***
5	Verify connections of Data, GPIO, & RF cables between mux boards per Interconnect diagram VR102601.

In Process Inspection_04

1	Verify RF cables have been connected to the Thingmagic Reader per interconnect diagram VR102601
2	Verify VSWR test has passed per Engineering Test Procedure.
3	Verify Interface board (Product ID # 225331) has been created and assigned an asset number in the database.
4	Verify RFID (Product ID # 225322) has been created and assigned an asset number in the database.
5	Verify that Asset # or VRSN label has been applied to FR4 per Interconnect diagram VR102601.
6	Verify unit has a passing System test per Engineering Test Procedure.
7	Verify unit has a passing Open Top Antenna Far Field Test per Engineering Test Procedure.
8	Verify all cable assemblies are installed and glued down.

In Process Inspection_05

1	Verify 1/8" Top ABS has been routed per Machining process ***M003;*** Part # ***VR102653_BDTOPABS_REV1***
2	Verify that Lot # of 1/8" ABS material has been recorded.
3	Verify 1/16" Bottom ABS has been routed per Machining process ***M004; Part # VR102654_BDBOTABS_REV1***
4	Verify that Lot # of 1/16" ABS material has been recorded.
5	Verify gluing of 1/16" & 1/8" ABS material to unit has been performed per Glue Process Procedure.
6	Verify that edges have been rounded and cleaned on unit.
7	Verify that mounting holes have been drilled per Machining process **M006; Part # VR102688 (BD Document # DTC20000025109-000-05)**

FINAL Q/A

1	Verify connector plate has been installed securely and has unit asset number applied.
2	Verify FCC/Certification labels have been applied per **(BD Document # DTC20000025109-000-05)**
3	Verify MFC & VRSN labels are applied per SRA-16 MFC label Requirements drawing. ***(SRA-16_MFC Label Requirements)***
4	Verify Connector on plate is covered with ESD film cover.
5	Place fixture on face up unit and verify unit dimensions. Remove fixture when complete
6	Verify unit has completed all passing tests (VSWR, System, Far Field, & Pre-Box Test)
7	Verify the Q/A Checklist has been completely filled out.
8	Verify all VRSN #'s have been linked accordingly in the database. **(Family Tree will also reflect VRSN #'s)**
9	Verify unit has been cleaned and free from loose debris.
10	Verify all In-Process inspections and Incoming Q/A Checklists have been completed prior to step 11.
11	Verify a Certificate of Conformance sheet has been printed, information is correct, and is attached to unit.