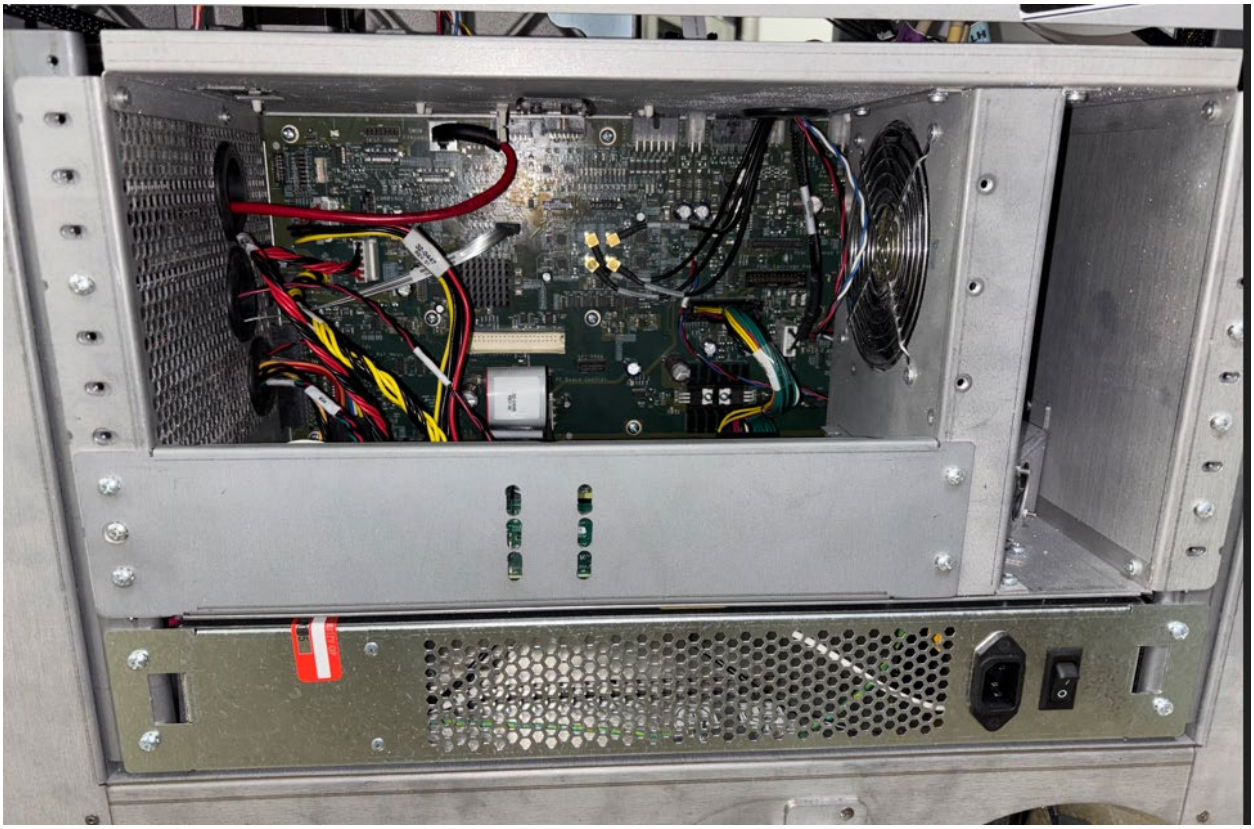
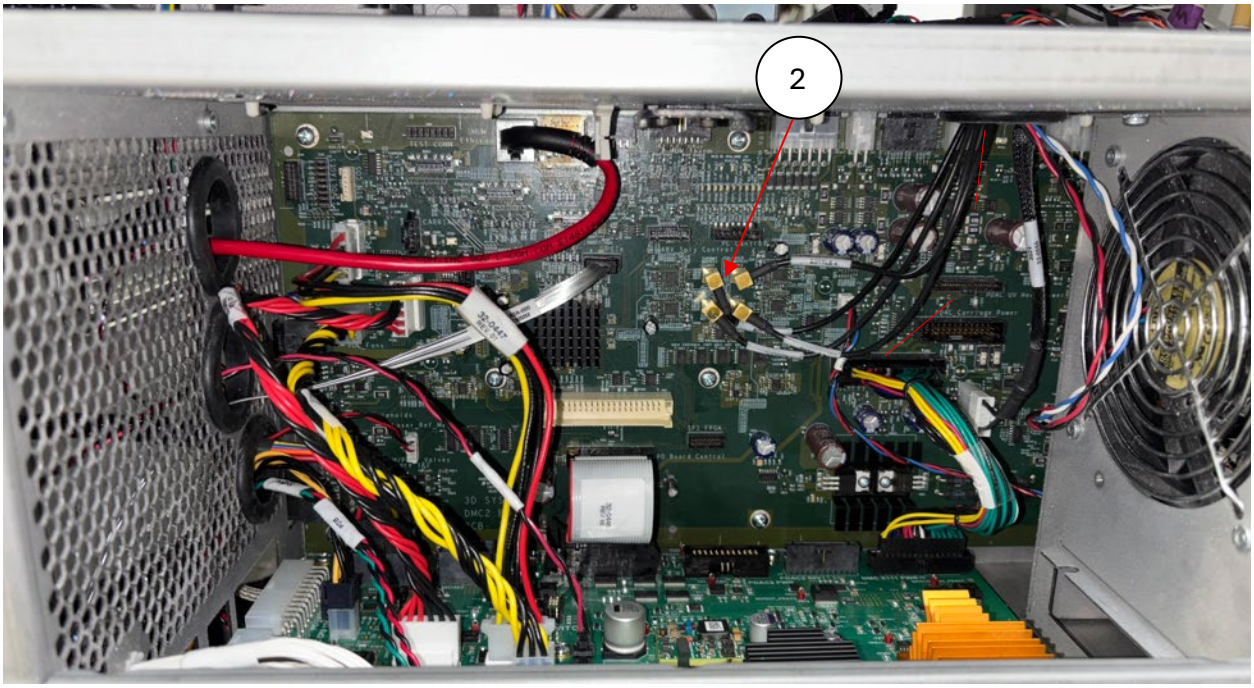
Internal Photographs of NextDent 300 Printer RFID Antennas and Controller

Rear view of the Printer with rear access door removed. (1) DMC/E-can cover.

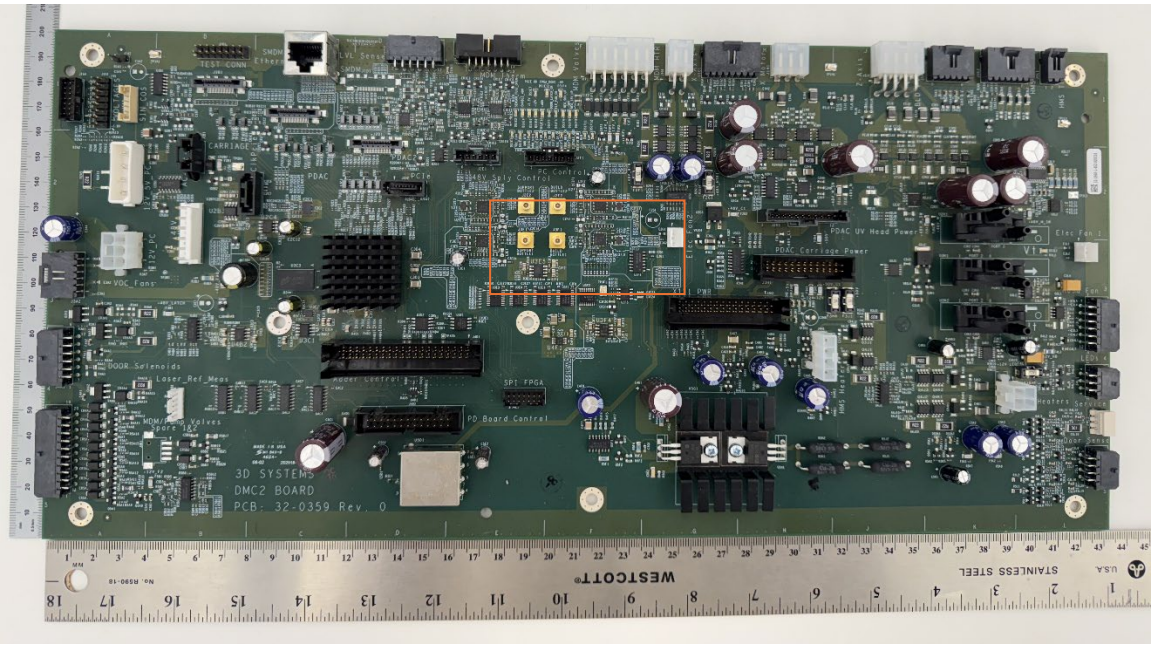
Rear of the printer. DMC with cover removed. Ribbon cables removed so RFID cables visible.



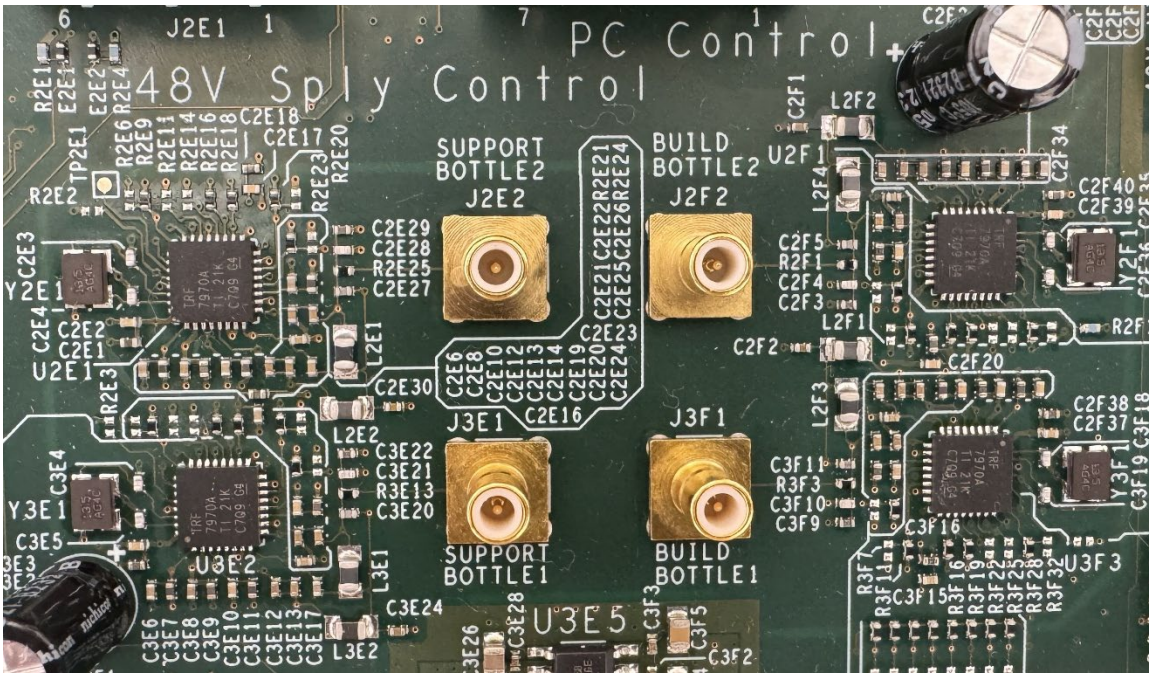
Close up DMC with ribbon cables removed so 4 RFID coax cables visible (2). Connecting to bottles 1 – 4 RFID routed out the top of E-can.



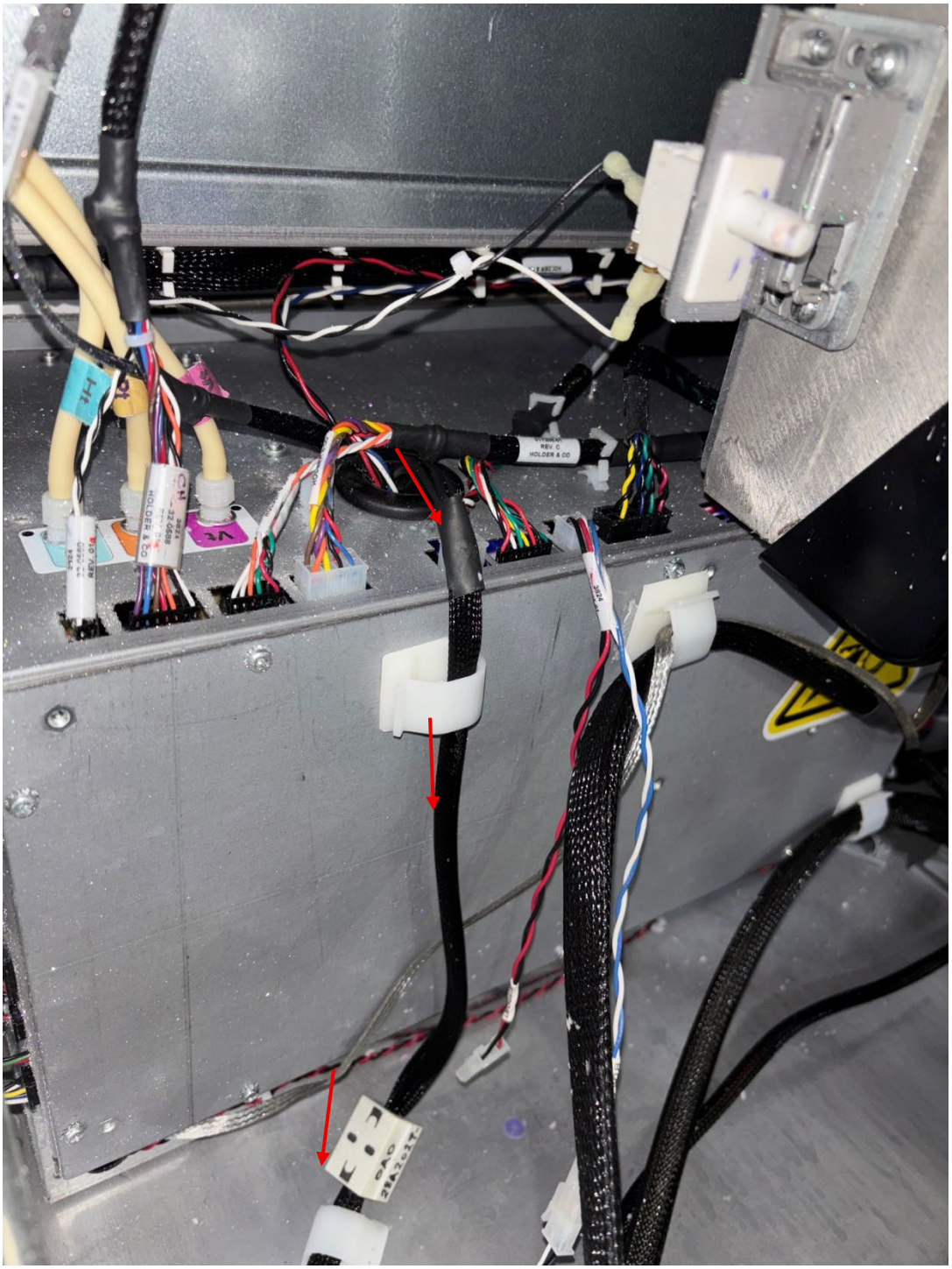
DMC PCBA (32-0360). 4 Independent RFID Ports. RFID Circuitry is in orange rectangle.



DMC PCBA. Close-up view of RFID circuitry. RFID ports are gold SMB connectors.

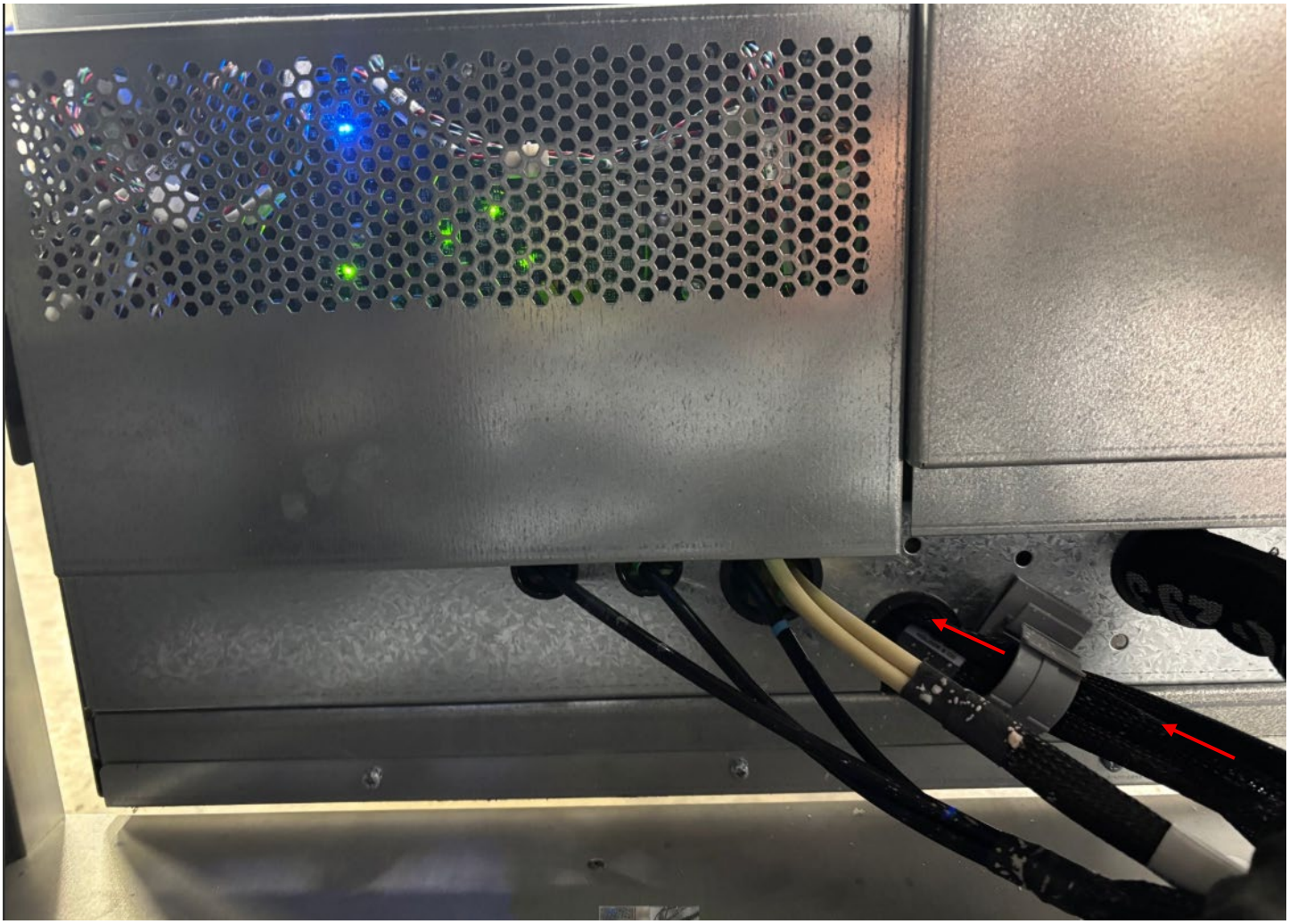


RFID Cable routed out top of E-can down backside of E-can with ferrite and cable clamps.

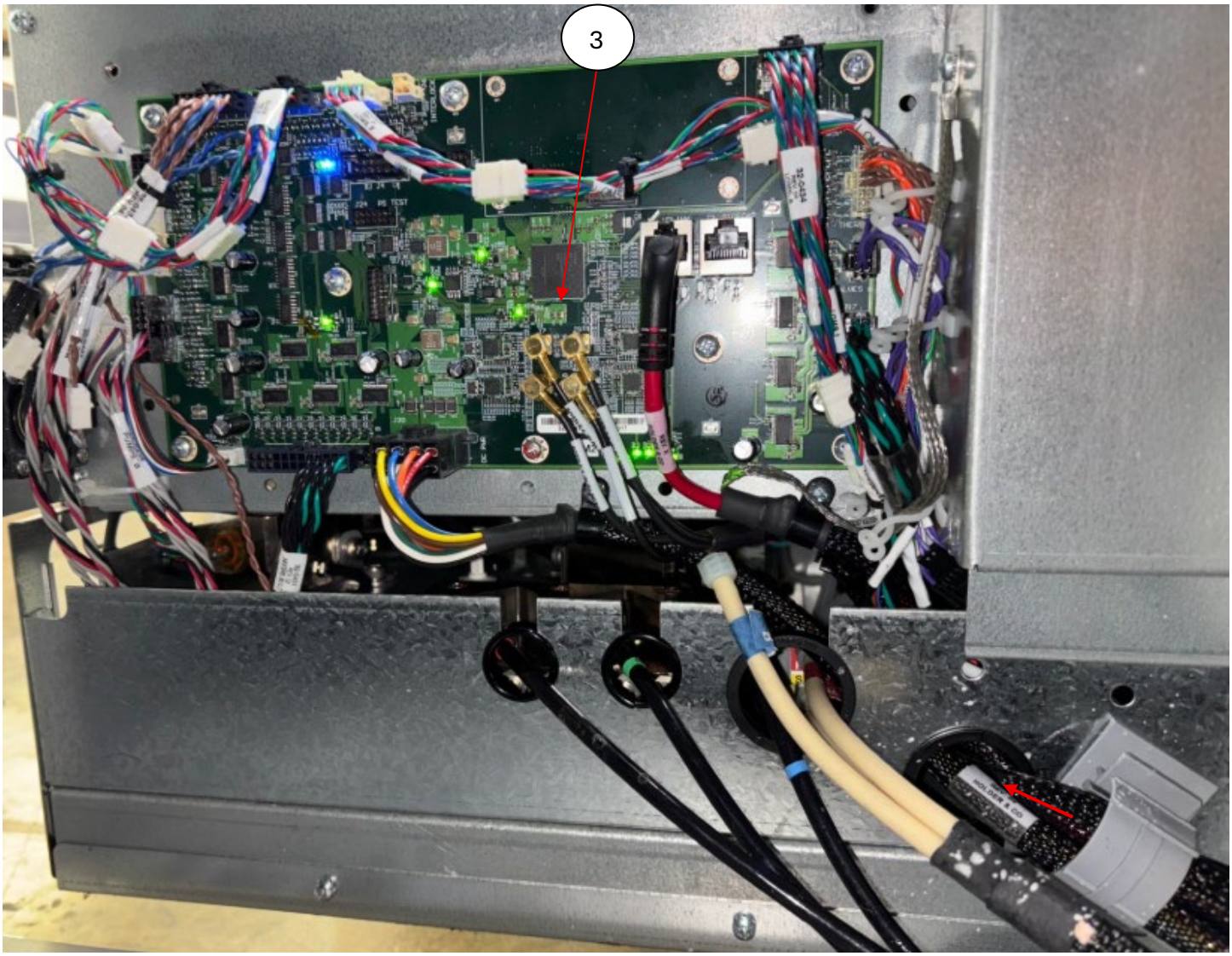


RFID cable routed to Material Delivery Drawer. Top view

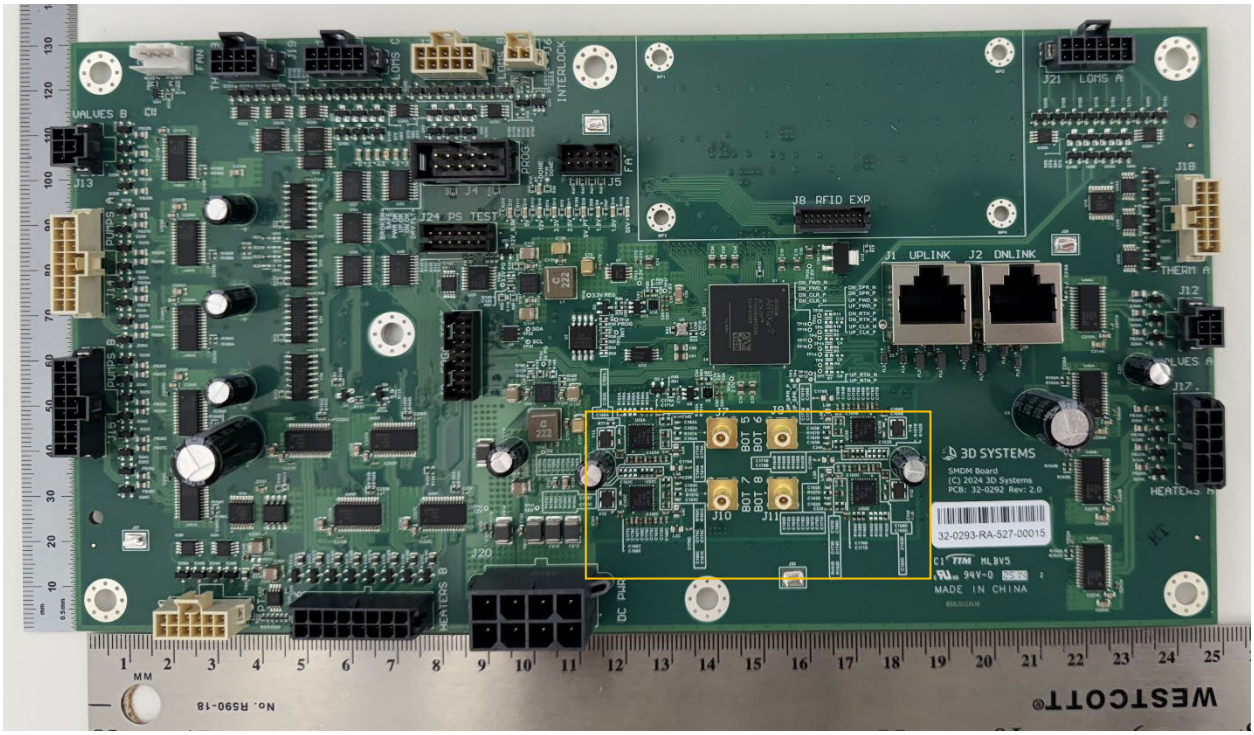
Back of Material Delivery Drawer



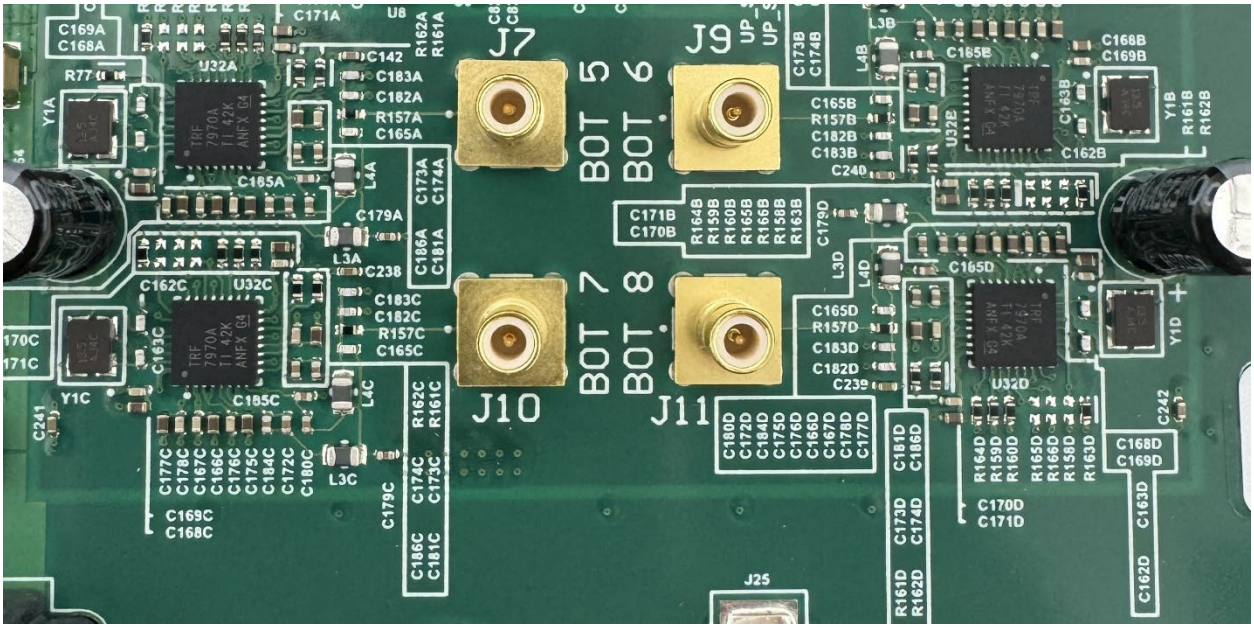
Back cover removed from Material Delivery Drawer. SMDM board shown. 4 RFID coax cables visible (3). Connecting to bottles 5 – 8.



SMDM PCBA (32-0293). 4 independent RFID ports. RFID circuitry is in orange rectangle.

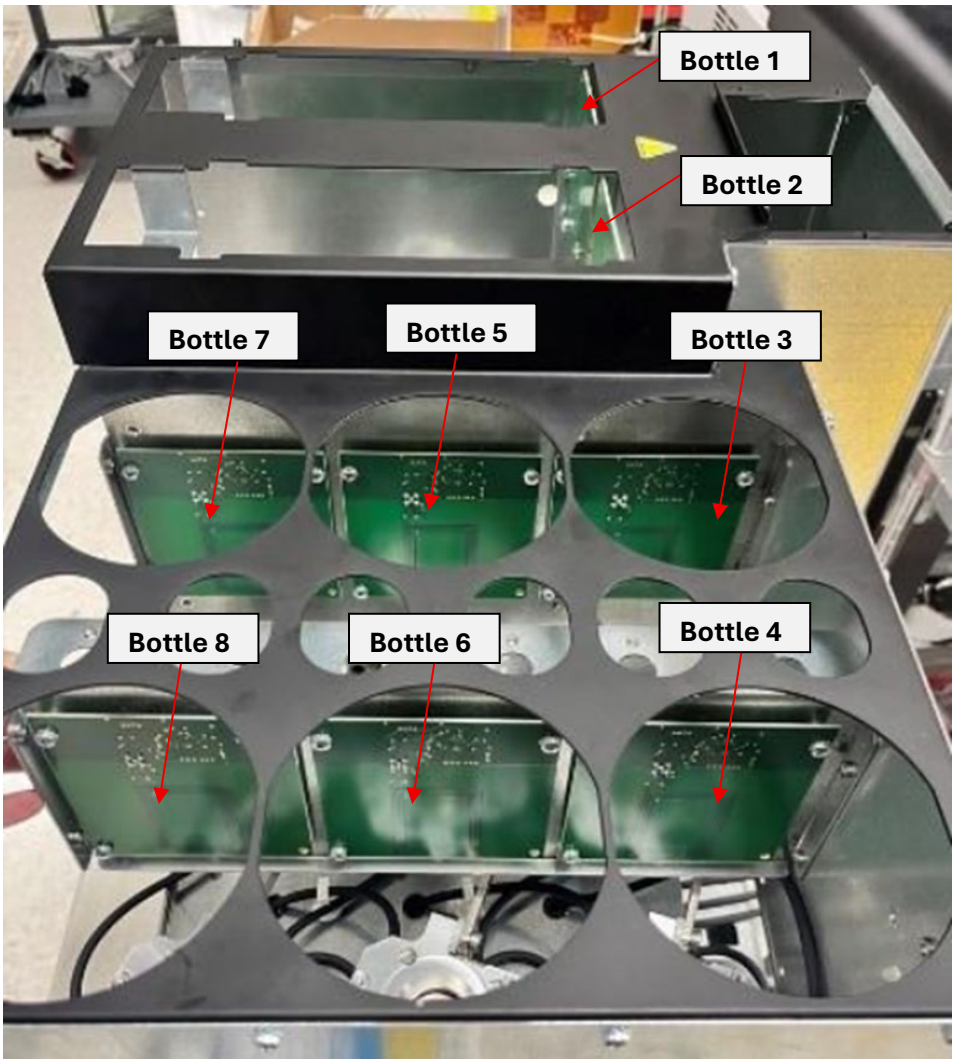


SMDM PCBA. Close-up view of RFID circuitry. RFID ports are gold SMB connectors.

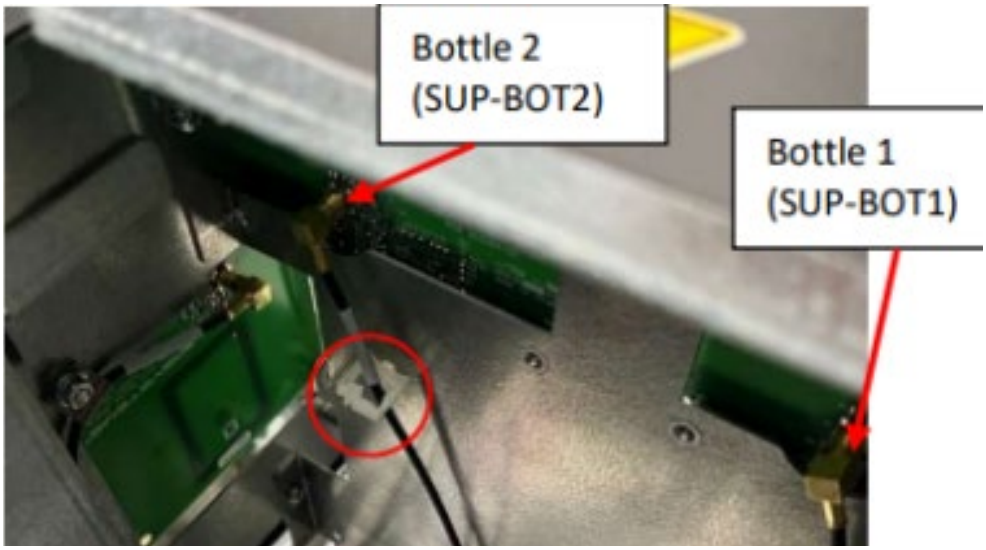


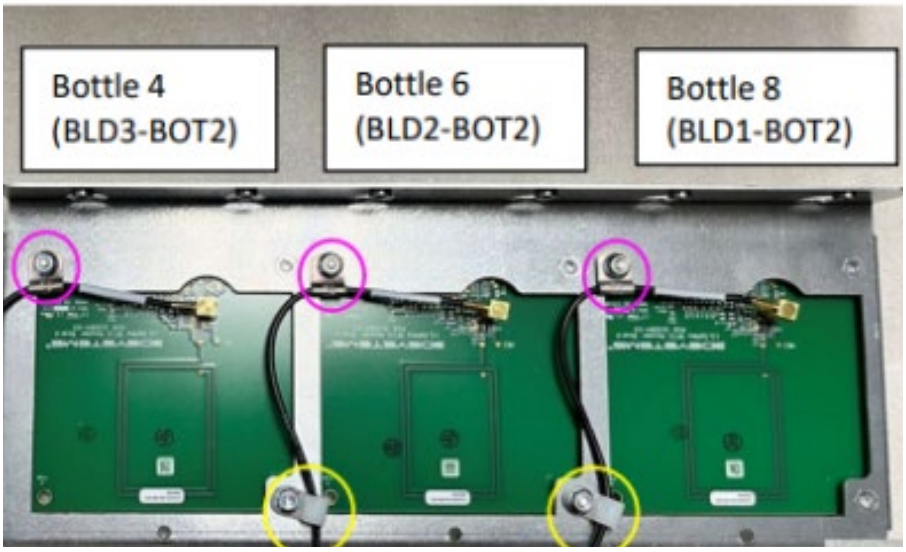
MDM Drawer open – top view.

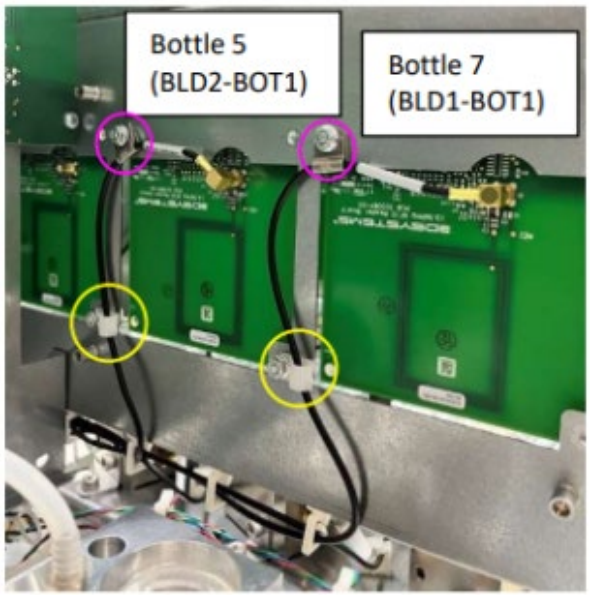
MDM Drawer showing locations of RFID antenna boards.

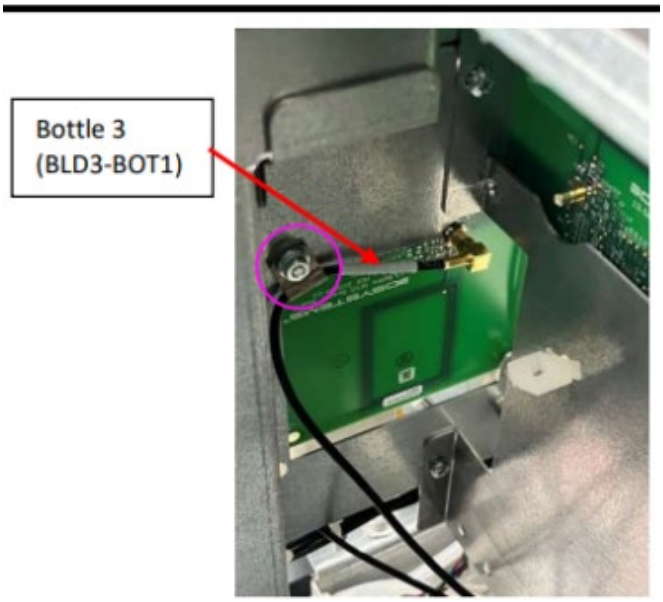


RFID Coax cables connected to all 8 anntena boards.

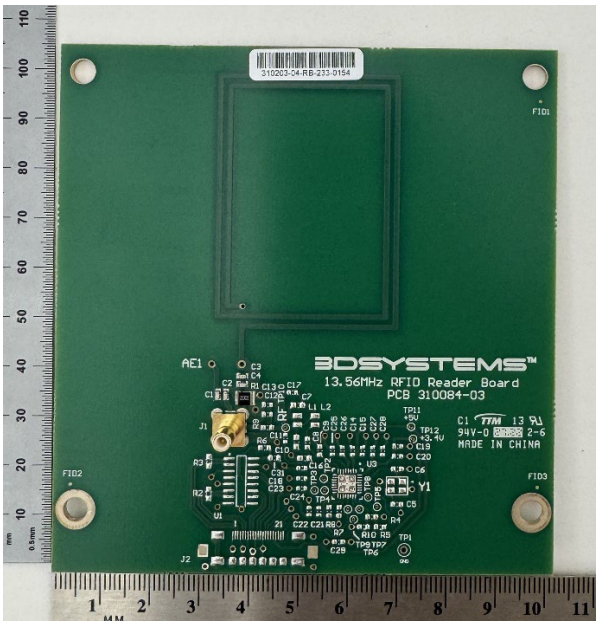








RFID Antenna board PCBA (top side). Only component is SMB connector. Antenna designed to resonate at 13.56MHz (50Ω)



RFID Antenna board PCBA (back side). Antenna designed to resonate at 13.56MHz (50Ω)