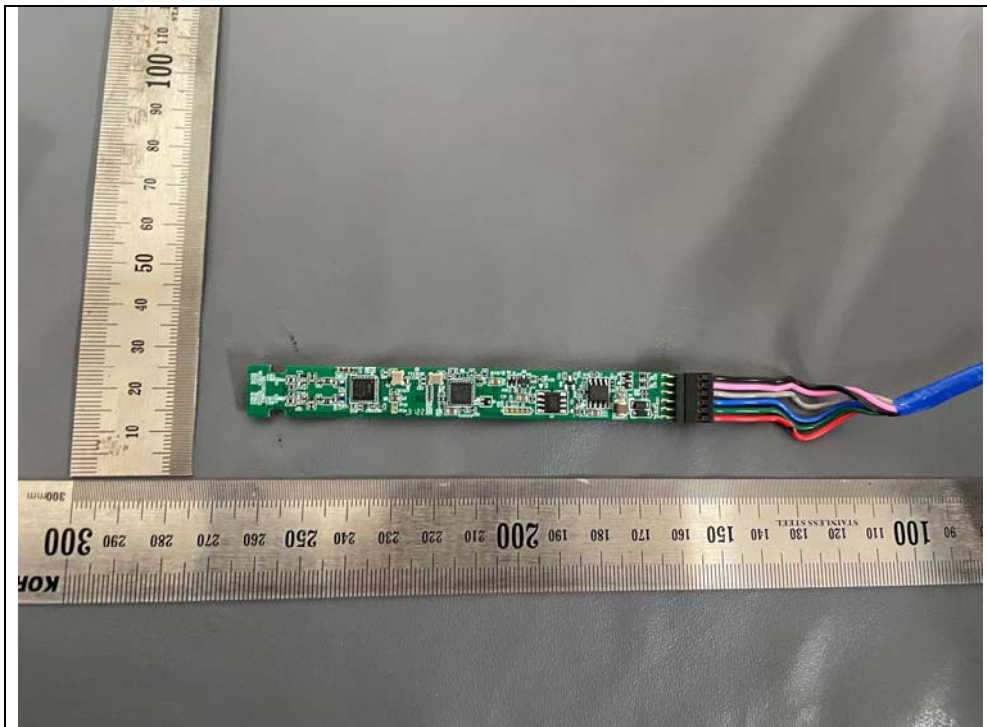
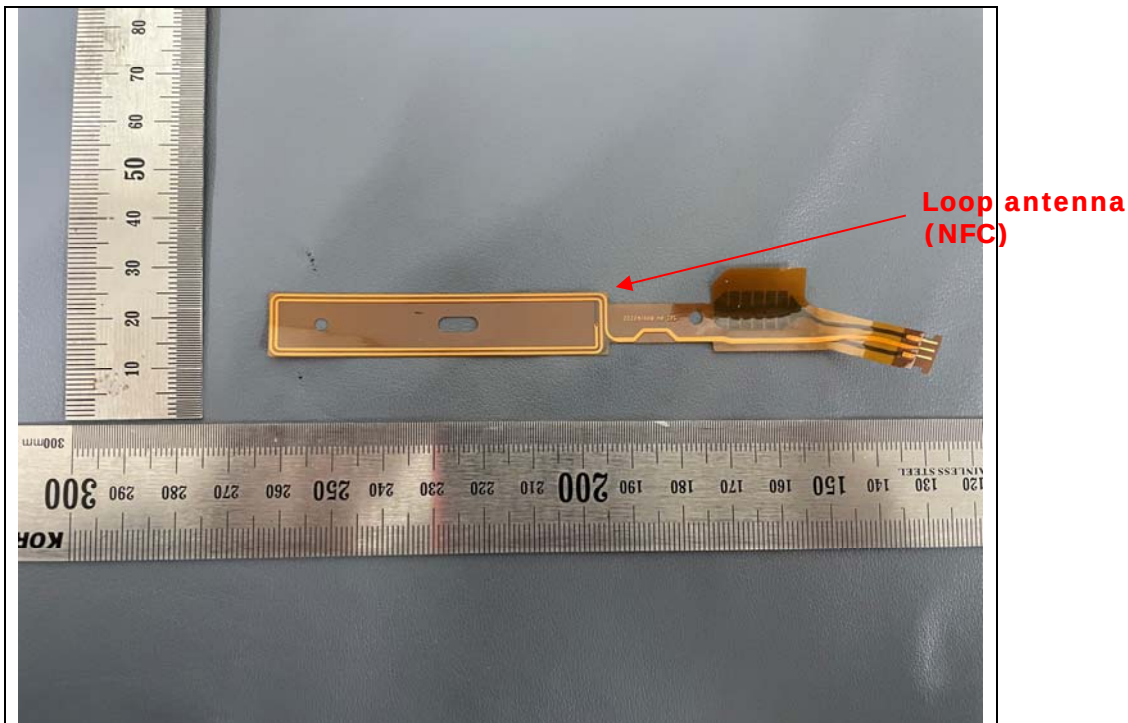


Internal photos of EUT

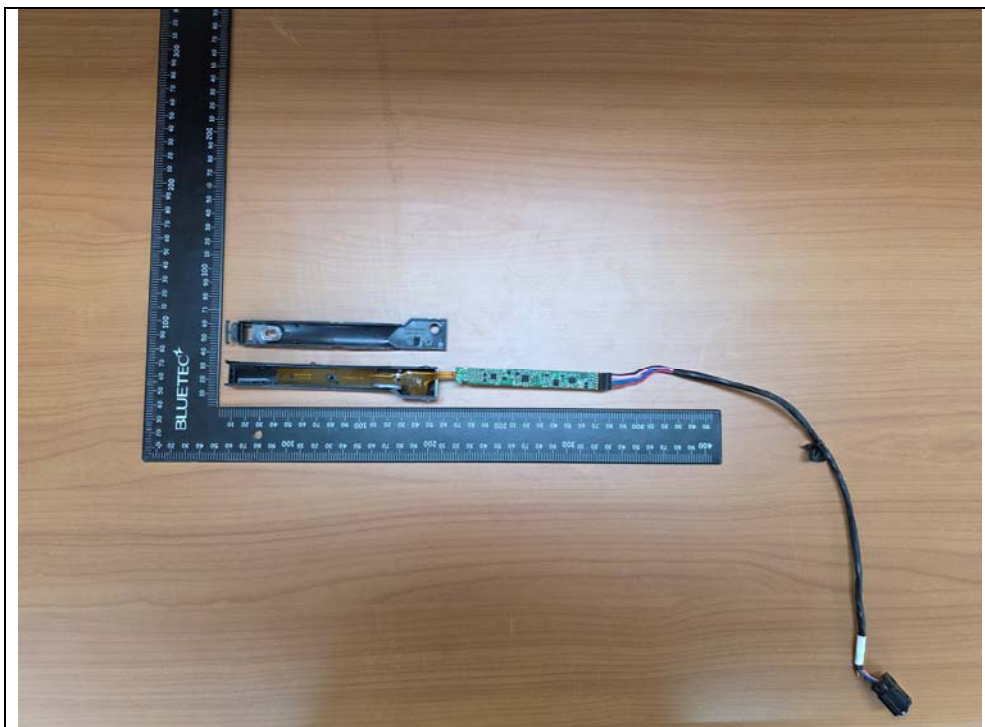
[Original]

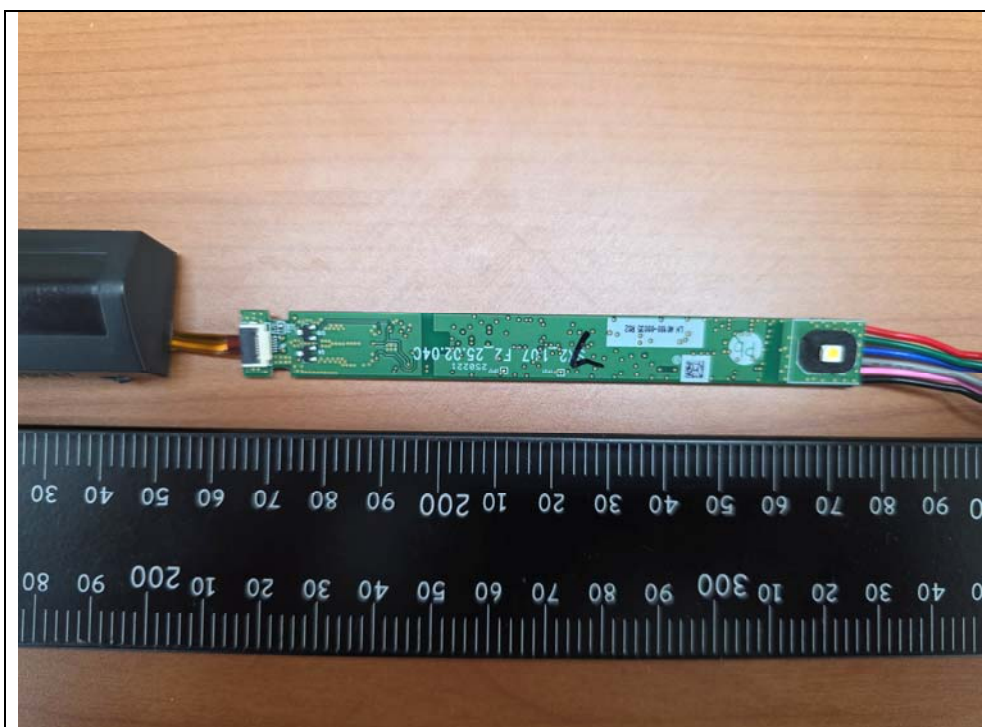
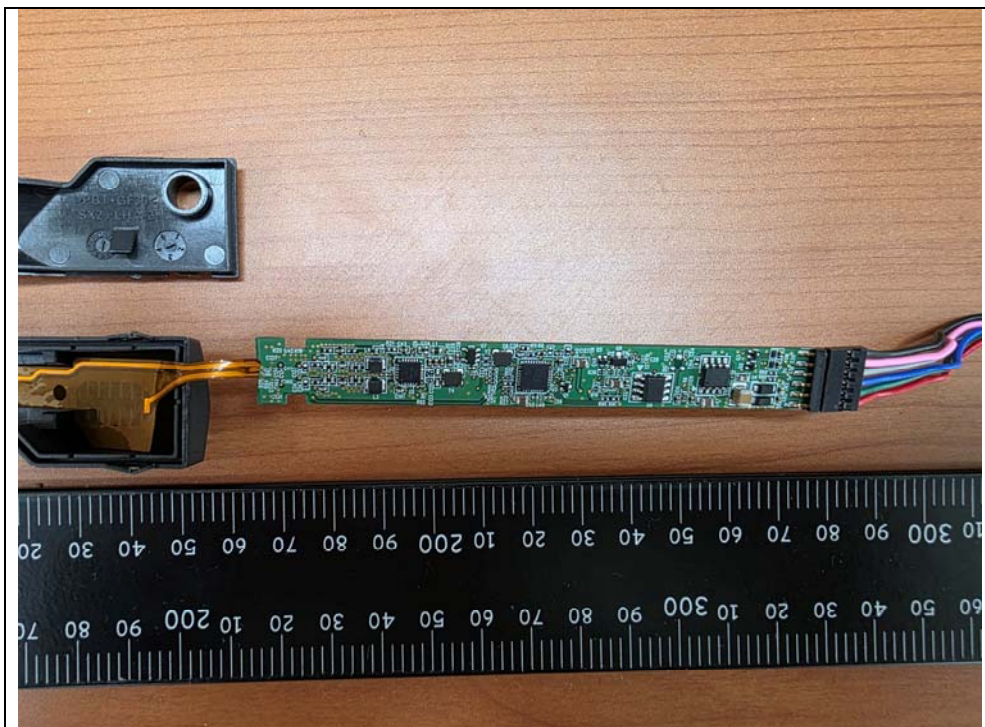






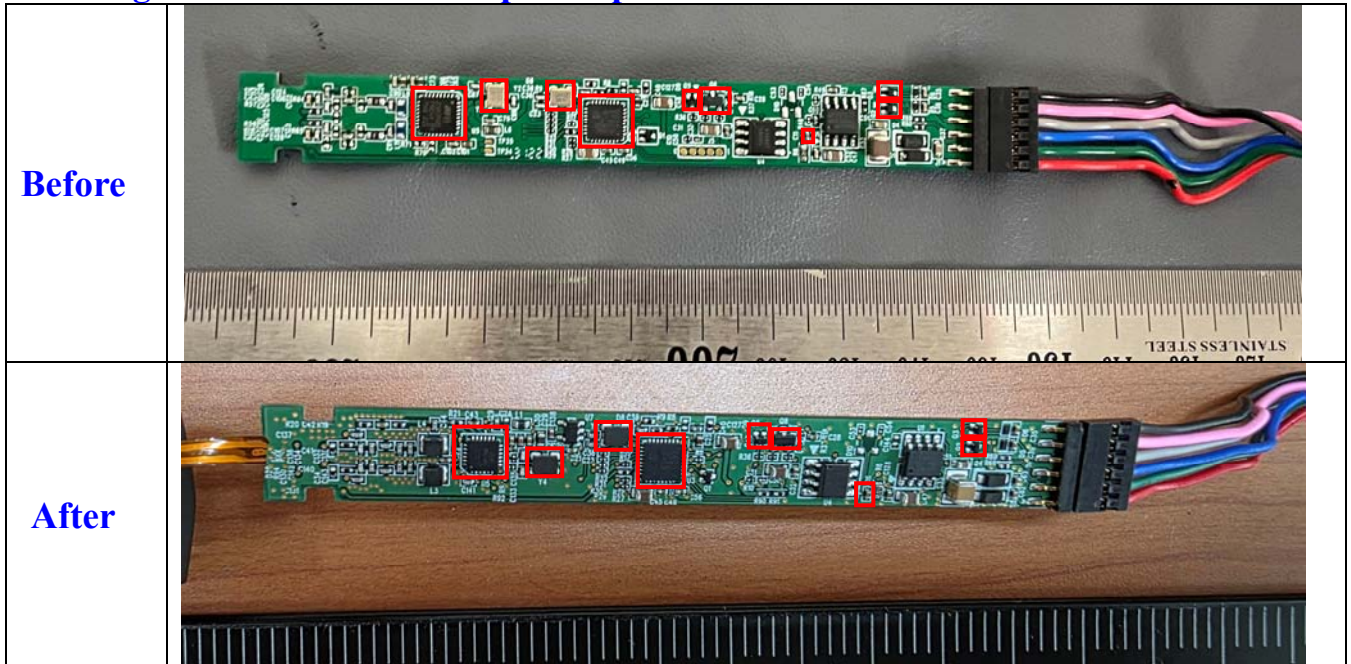
[New]





[Change of component]

1. Change to alternative development parts



Note:

1. D2 = FROM E0903-0001 TO E0903-00006 (Change pinheader company)

2. D1 = FROM E0300-00017 TO E0300-00020

D4 = FROM E0305-00034 TO E0305-00043

3. J6 = FROM E0902-00001 TO E0902-00000

(The existing FPCB had a problem with the compression part due to temperature changes, which caused the resonance frequency to change, and it was made of FPCB material applied to NX4, Due to the large number of pins, the FPCB exclusion issue occurred and the 6-pin CONNECTOR was changed)

4. U5 = FROM E0001-00003 TO E0001-00002 (U5 replacement changes peripheral circuitry)

5. Added NFC RESET NET to U3 PA03 pin

PA06, PA07 NET Deleted

(Change circuit due to NFC IC change)

6. Q2, Q3 = FROM E0400-00048 TO E0400-00063

7. Y3 = Delete

Y4 = Additional E0500-00008

(X-TAL frequency varies with NFC IC change

- Change from 27.12 MHz to 13.56 MHz)

8. Y2 = FROM E0500-00005 TO E0500-00002

C36, C23 : FROM 3.3PF TO 8PF(E0100-00291) (Changing the Device Value)

(Apply LOAD CAP tuning value due to X-TAL change)

9. Q5 = FROM E0400-00038 TO E0400-00063

Q8 = FROM E0401-00028 TO E0401-00034

10. C144 = Add Circuit

11. U7 pin description revised

1: VIN , 2:GND , 3:EN , 4:NC , 5:VOUT -> 1: VIN , 2:GND , 3:NC , 4:EN , 5:VOUT changes

12. C11 = Circuit position shift

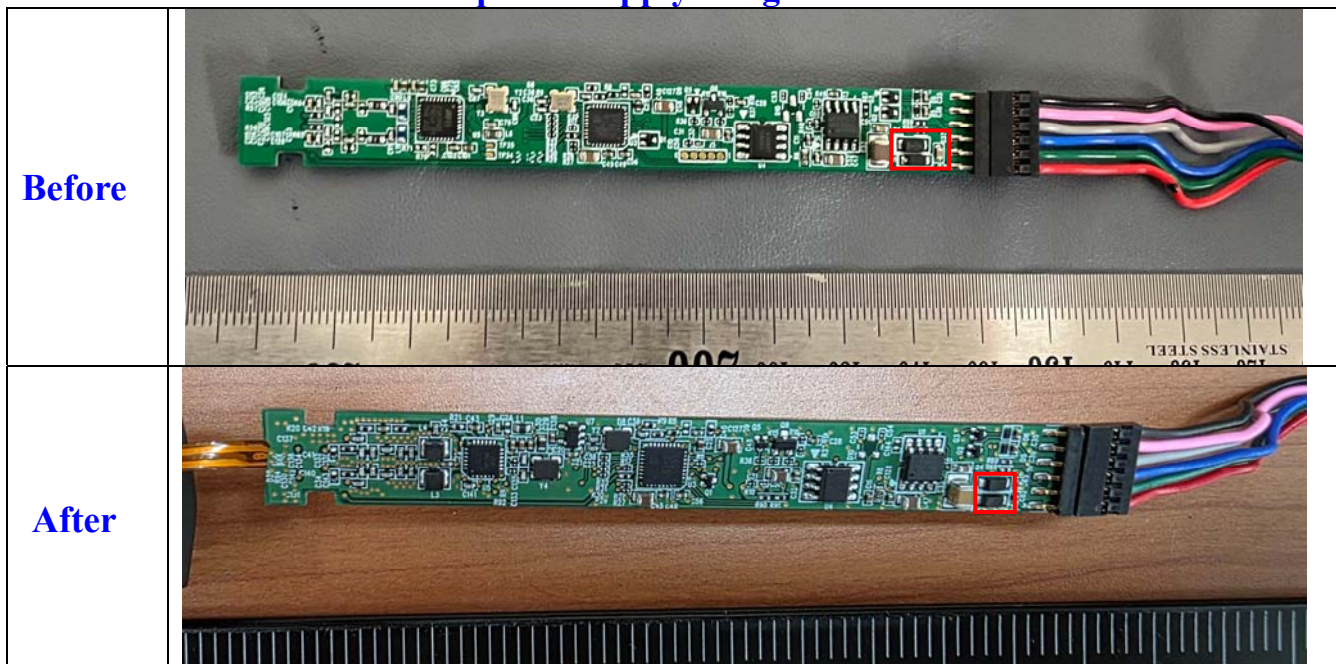
Before	
After	

Note:

Q4,Q10 pin description revised

1 Gate , 2: Souce , 3:Drain -> 1: Soure , 2:Gate ,3:Drain changes

2. Reflection of standardized power supply design

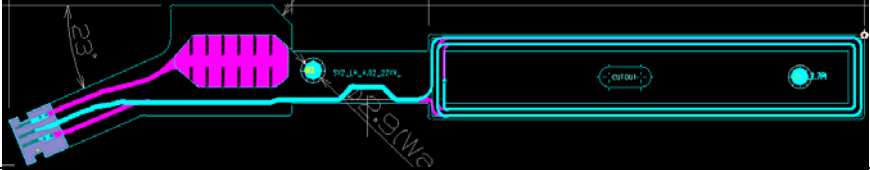
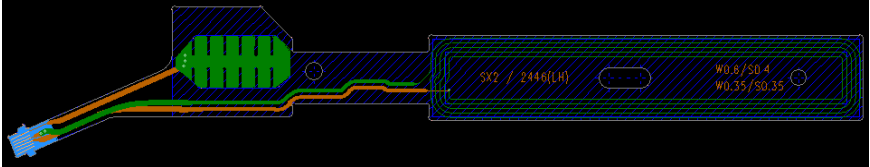


Note:

C37 0.1uF/1608/100V/Q deleted

C62, C63 0.1uF/1005/50V/Q added (E0100-01221)

3. FPCB change, corresponding component change

Before	 The 'Before' image shows a pink FPCB layout. It features a 6-pin connector on the left, a central antenna pattern with a 23° angle, and a rectangular component on the right. A dimension of 2.3mm is indicated for a small circular feature.
After	 The 'After' image shows a revised FPCB layout. The connector is now a 6-pin connector. The antenna pattern is green and has been standardized. The rectangular component is now labeled with 'SX2 / 2446(LN)' and 'W0.8/50.4' and 'W0.35/50.35'. A dimension of 2.3mm is also indicated for a small circular feature.

Note:

Reason for change:

- The resonant frequency changed due to the problem in the compression part due to the temperature change of the existing FPCB, and it is made of FPCB material applied to NX4.
- Due to the large number of pins, the FPCB exclusion issue occurred and the 6-pin CONNECTOR was changed
- Sample production reflecting FPCB standard design
 - > Design a pattern by keeping NFC pattern 2mm apart
 - > Standardize the Antenna pattern w/s
 - Change from 0.5mm/05mm to 0.35mm/0.35mm