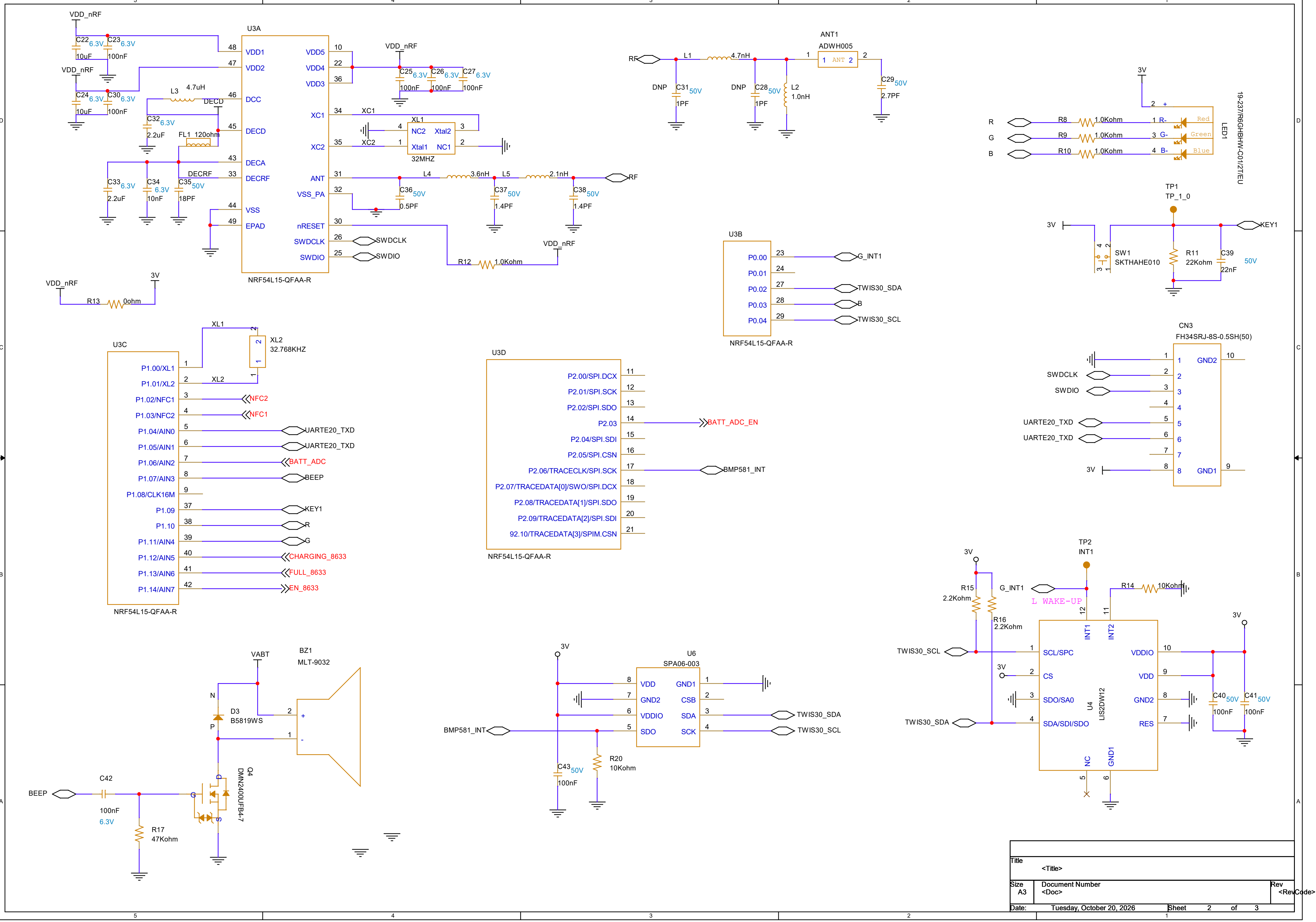
U3A
NRF54L15-QFAA-R
VDD1
VDD2
DCC
DECD
DECA
DECRF
VSS
EPAD
VDD5
VDD4
VDD3
XC1
XC2
ANT
VSS_PA
nRESET
SWDCLK
SWDIO
VDD_nRF
C22 6.3V 10uF
C23 6.3V 100nF
C24 6.3V 10uF
C30 6.3V 100nF
L3 4.7uH
C32 6.3V 2.2uF
FL1 120ohm
C33 6.3V 2.2uF
C34 6.3V 10nF
C35 50V 18PF
C25 6.3V 100nF
C26 6.3V 100nF
C27 6.3V 100nF
XL1 32MHZ
NC2 Xtal2 Xtal1 NC1
L4 3.6nH
L5 2.1nH
C36 50V 0.5PF
C37 50V 1.4PF
C38 50V 1.4PF
RF
R12 1.0Kohm
R13 0ohm
3V
ANT1
ADWH005
L1 4.7nH
DNP
C31 50V 1PF
C28 50V 1PF
L2 1.0nH
C29 50V 2.7PF
U3B
P0.00
P0.01
P0.02
P0.03
P0.04
G_INT1
TWIS30_SDA
B
TWIS30_SCL
NRF54L15-QFAA-R
LED1
19-237/R6GHBHW-C01/2T/EU
R8 1.0Kohm
R9 1.0Kohm
R10 1.0Kohm
R
G
B
R- G- B-
Red
Green
Blue
TP1
TP_1_0
SW1
SKTHAHE010
R11 22Kohm
C39 50V 22nF
KEY1
U3C
XL2 32.768KHZ
P1.00/XL1
P1.01/XL2
P1.02/NFC1
P1.03/NFC2
P1.04/AIN0
P1.05/AIN1
P1.06/AIN2
P1.07/AIN3
P1.08/CLK16M
P1.09
P1.10
P1.11/AIN4
P1.12/AIN5
P1.13/AIN6
P1.14/AIN7
NFC2
NFC1
UARTE20_TXD
UARTE20_TXD
BATT_ADC
BEEP
KEY1
R
G
CHARGING_8633
FULL_8633
EN_8633
NRF54L15-QFAA-R
U3D
P2.00/SPI.DCX
P2.01/SPI.SCK
P2.02/SPI.SDO
P2.03
P2.04/SPI.SDI
P2.05/SPI.CSN
P2.06/TRACECLK/SPI.SCK
P2.07/TRACEDATA[0]/SWO/SPI.DCX
P2.08/TRACEDATA[1]/SPI.SDO
P2.09/TRACEDATA[2]/SPI.SDI
92.10/TRACEDATA[3]/SPIM.CSN
BATT_ADC_EN
BMP581_INT
NRF54L15-QFAA-R
CN3
FH34SRJ-8S-0.5SH(50)
GND2
GND1
SWDCLK
SWDIO
UARTE20_TXD
UARTE20_TXD
3V
TP2
INT1
R15 2.2Kohm
R16 2.2Kohm
G_INT1
L WAKE-UP
R14 10Kohm
TWIS30_SCL
TWIS30_SDA
U4
LIS2DW12
SCL/SPC
CS
SDO/SA0
SDA/SDI/SDO
INT1
INT2
VDDIO
VDD
GND2
RES
NC
GND1
C40 50V 100nF
C41 50V 100nF
U6
SPA06-003
VDD
GND2
VDDIO
SDO
GND1
CSB
SDA
SCK
BMP581_INT
TWIS30_SDA
TWIS30_SCL
C43 50V 100nF
R20 10Kohm
VABT
BZ1
MLT-9032
D3
B5819WS
N
P
Q4
DMN2400UFB4-7
C42 100nF 6.3V
R17 47Kohm
BEEP
Title
<Title>
Size A3
Document Number
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Rev
<RevCode>
Date: Tuesday, October 20, 2026
Sheet 2 of 3