

Report Number: 13941435-EP1V2

1. SCOPE

The purpose of this document is to show test setup diagrams and photos for the following reports

Reports
13941435-E1 FCC WPT Report
13941435-E3 FCC WPT RF Exposure Report

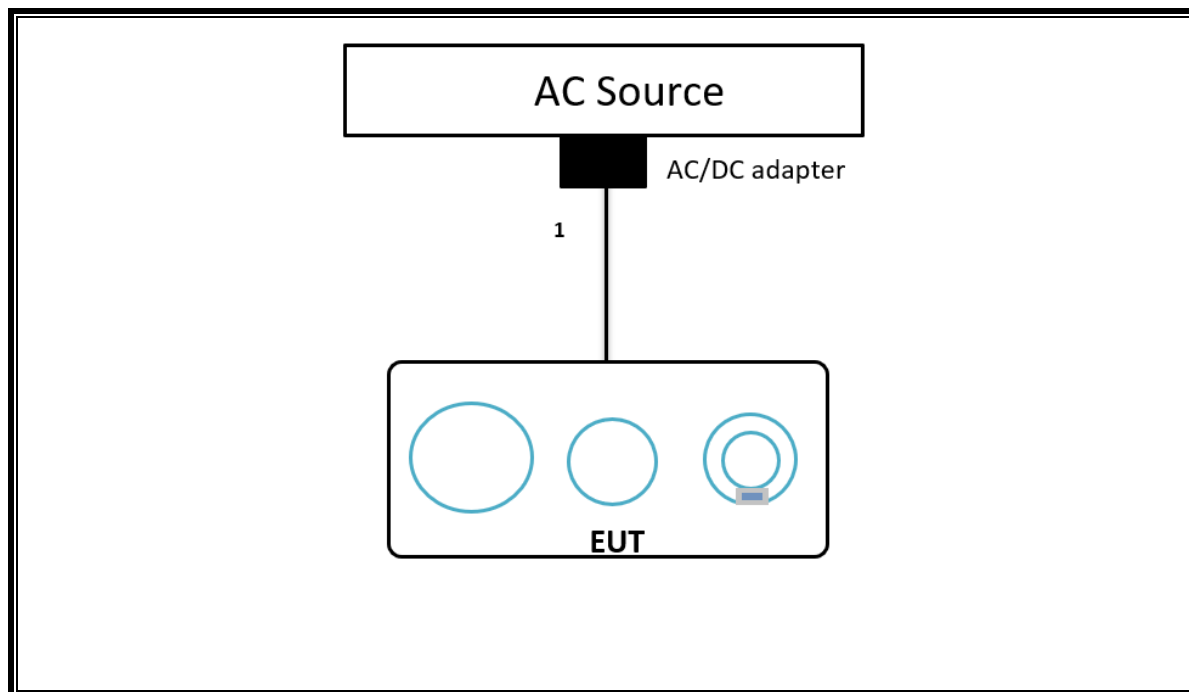
2. WPT TECHNOLOGY (13941435-E1 Report)

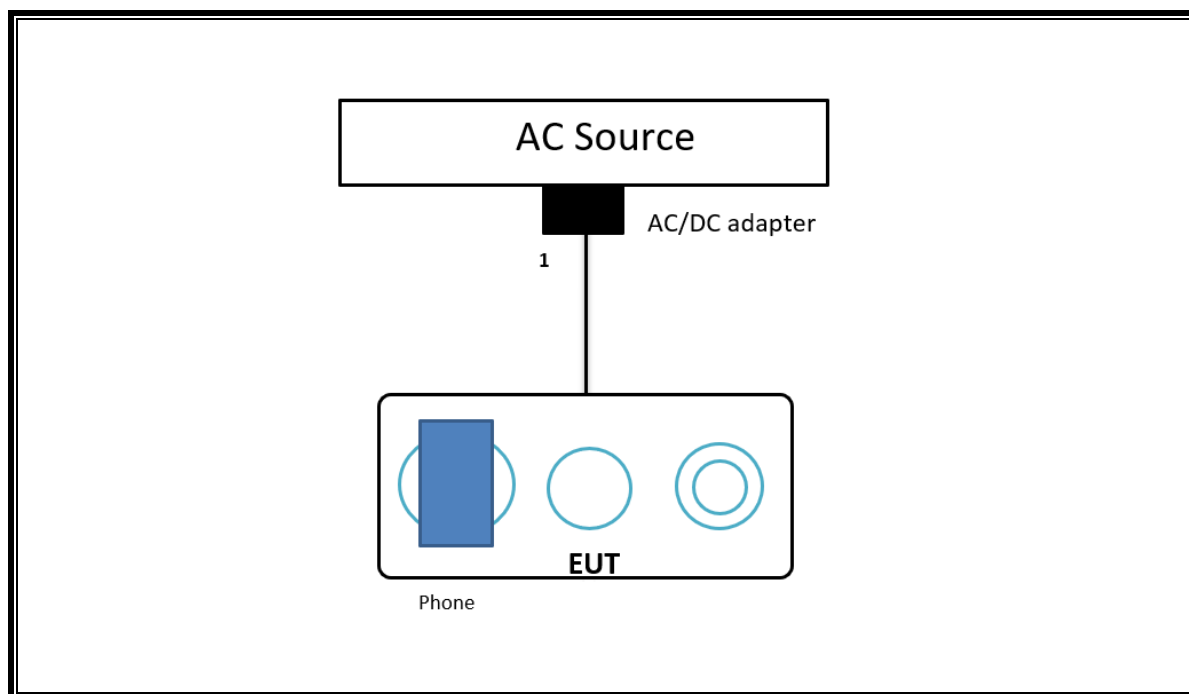
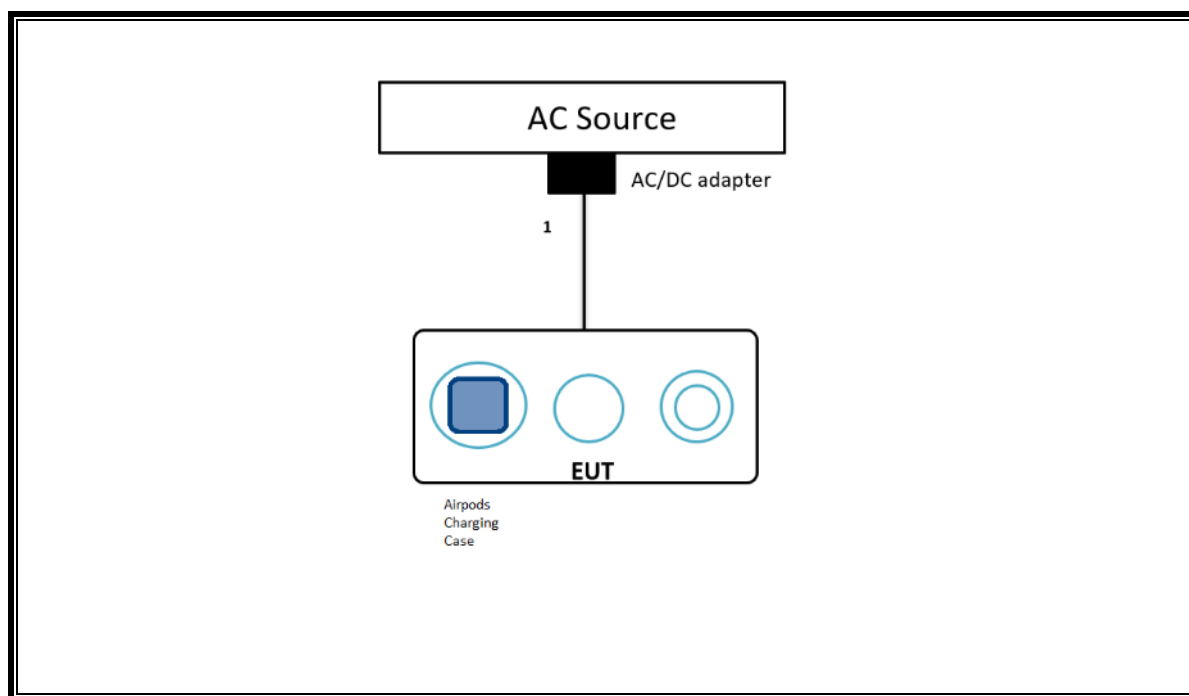
2.1. DESCRIPTION OF TEST SETUP

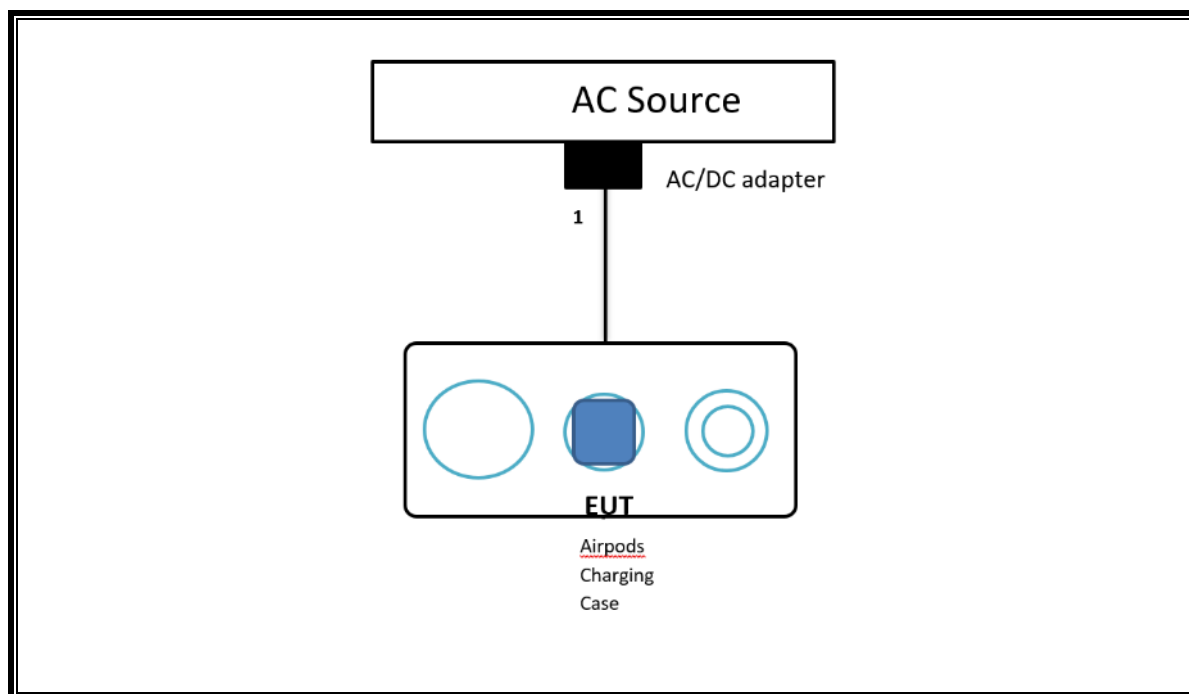
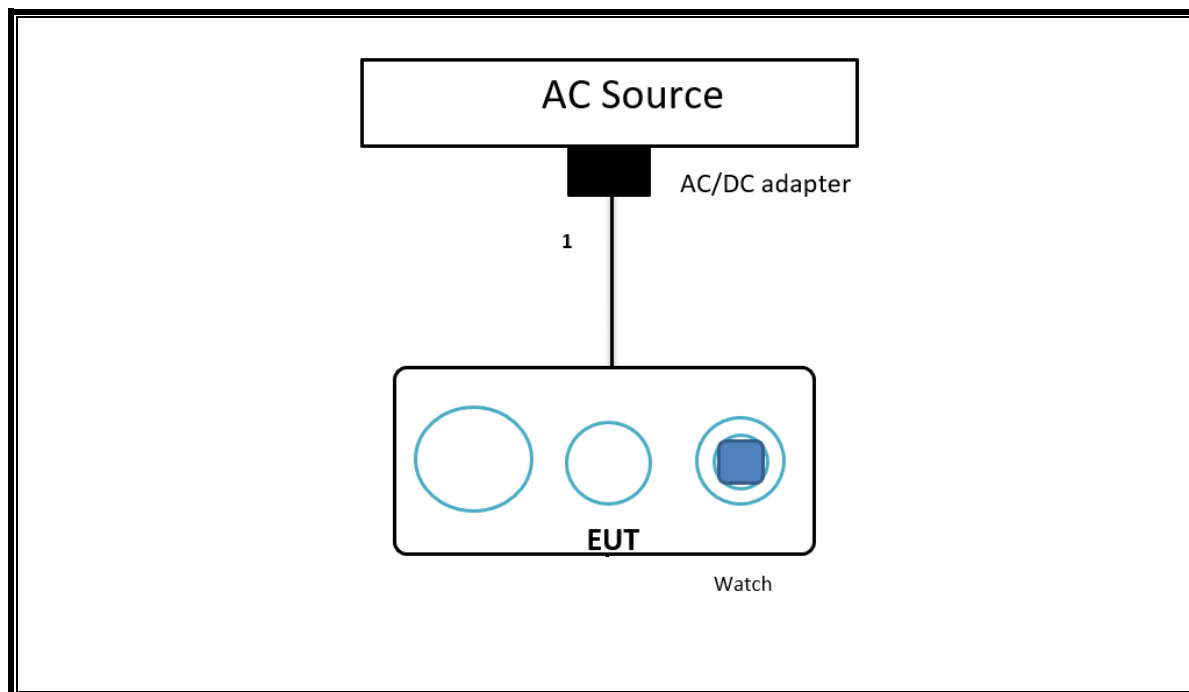
SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
AC/DC adapter		Channel Well Technology Co., Ltd.	2ACR040G NJ	N/A		DoC
Apple Watch		Apple	A2477	JCXW12XMW5		BCG-A2477
Apple Watch		Apple	A2476	GT27CP24C9		BCG-A2476
Apple Watch		Apple	A2474	FFW3V72W9R		BCG-A2474
Legacy Apple Watch		Apple	A1977	FH7XG2HZKDH2		BCG-A1977
Legacy Apple Watch		Apple	A1554	FHLPLLZFG9J8		BCG-E2871
Legacy Apple Watch		Apple	A2092	FHLZM8YQMLTK		BCG-A2092
iPhone 12 Pro Max		Apple	A2342	F2LFKP3R0D41		BCG-E3548A
iPhone 12 Pro Max		Apple	A2342	F2LFL6760D41		BCG-E3548A
iPhone 12 Pro Max		Apple	A2342	F2MFLHTF0D42		BCG-E3548A
iPhone 12 Pro Max		Apple	A2342	F2MFLFJA0D42		BCG-E3548A
iPhone 12 Pro Max		Apple	A2342	F2LFKNTW0D41		BCG-E3548A
iPhone 11 Pro Max		Apple	A2161	FK1ZMDRGN70C		BCG-E3306A
iPhone 11		Apple	A2111	C6KZHK1XN72J		BCG-E3309A
iPhone X		Apple	A1901	G6TVJ7H8JCLH		BCG-E3175A
AirPods		Apple	A2031	H7GDX95ZJMMT		BCG-A2031
AirPods		Apple	A2031	H7GDXCR1JMMT		BCG-A2031
AirPods		Apple	A2031	H7GDXCPQJMMT		BCG-A2031
AirPods		Apple	A2031	H7GDW039JMMT		BCG-A2031
AirPods		Apple	A2031	H7GDW12PJMMT		BCG-A2031
AirPods		Apple	A2031	H7GDW2MUJMMT		BCG-A2031
I/O CABLES (AC LINE CONDUCTED)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC Jack	Un-shielded	1.2	

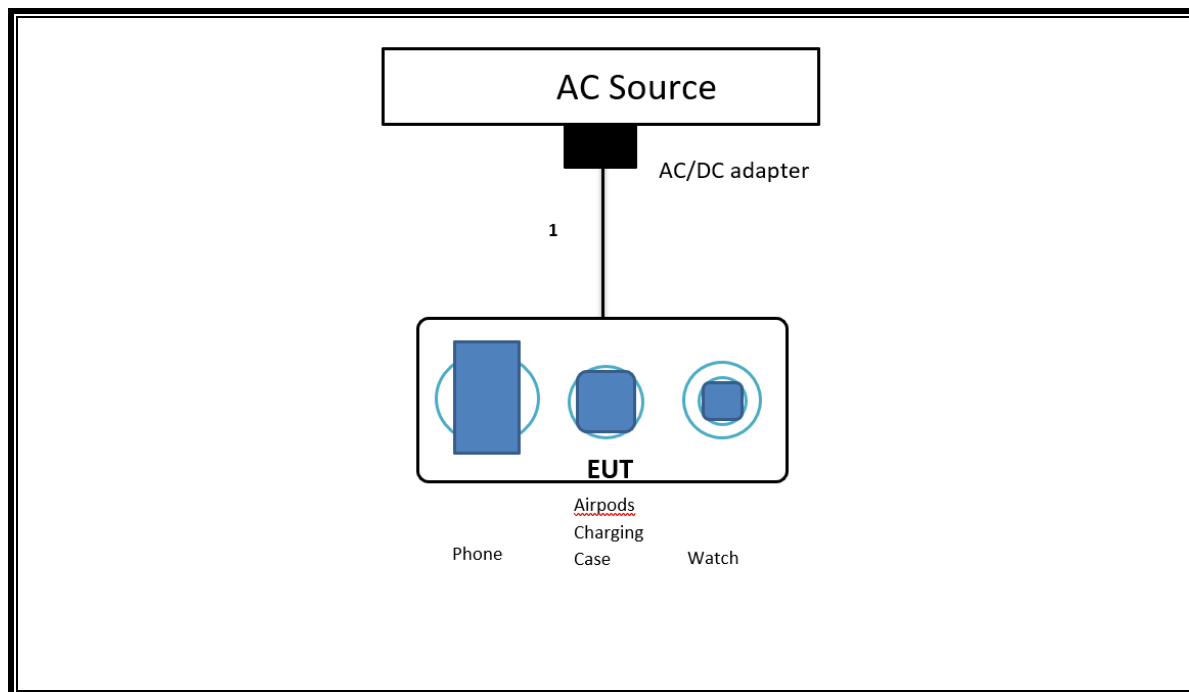
TEST SETUP

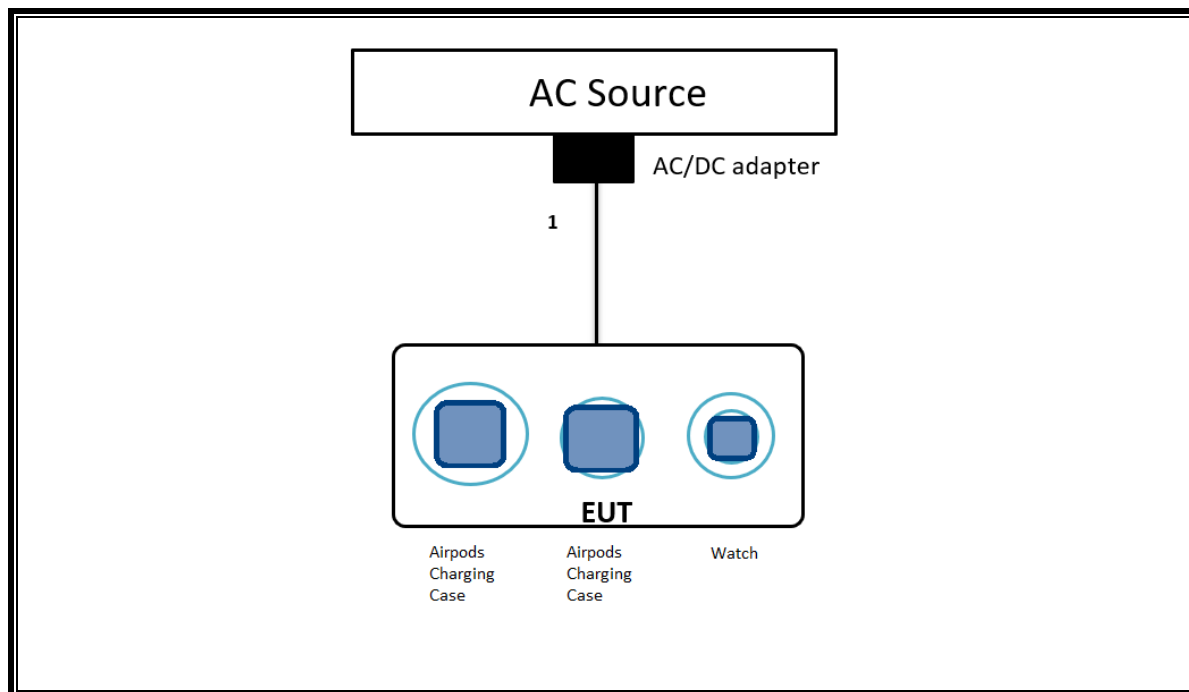
The EUT is directly connected to an AC/DC adapter via cable. Testing for coils 1 and 3, testing is based on direct contact with no shifts in position due to the embedded magnet in the charger pad. Coil 2 has no magnetic hold. The AirPods Charging Case is placed at the maximum power position during the testing.

CONFIGURATION 1: STANDBY MODE

CONFIGURATION 2, 3: OPERATING MODE WITH iPhone**CONFIGURATION 4: OPERATING MODE WITH AirPods Charging Case**

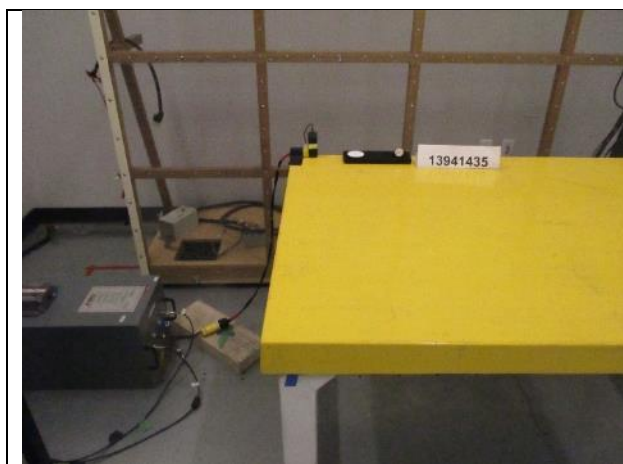
CONFIGURATION 5: OPERATING MODE WITH AirPods Charging Case**CONFIGURATION 6, 7: OPERATING MODE WITH Apple Watch**

CONFIGURATION 8, 9, 10, 11: OPERATING MODE WITH iPhone + AirPods Charging Case + Apple Watch

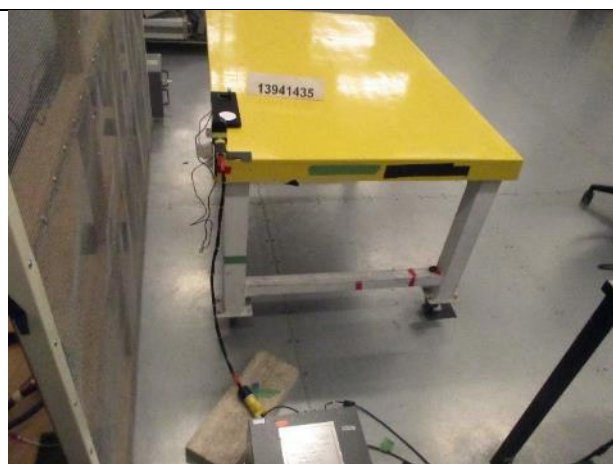
CONFIGURATION 12, 13: OPERATING MODE WITH AirPods Charging Case + AirPods Charging Case + Apple Watch

2.2. AC LINE CONDUCTED SETUP

2.2.1. CONFIGURATION 1: STANDBY MODE



AC LINE CONDUCTED (FRONT)



AC LINE CONDUCTED (BACK)

2.2.2. CONFIGURATION 8: OPERATING WITH iPhone, Apple Watch, and AirPods Charging Case



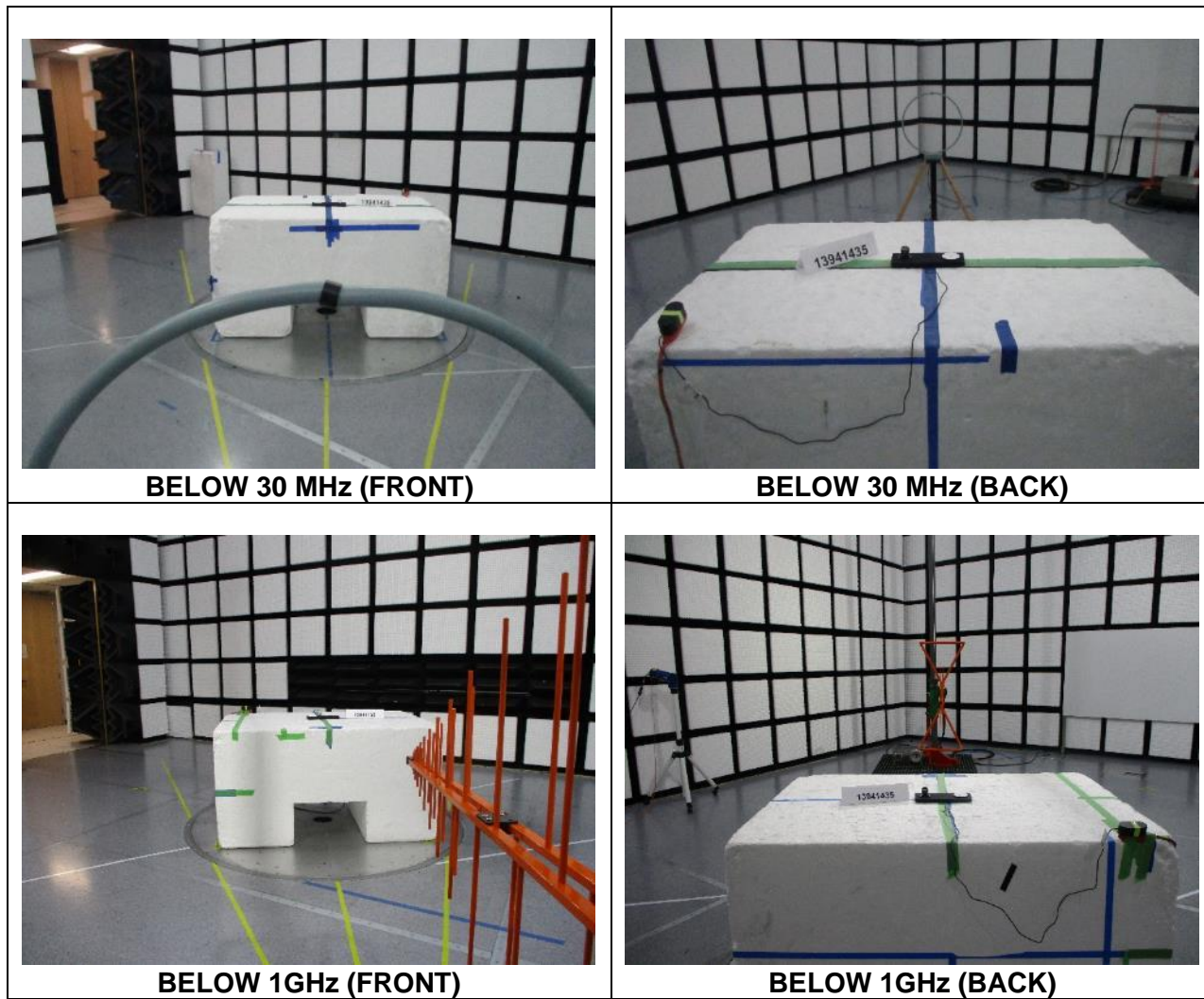
AC LINE CONDUCTED (FRONT)



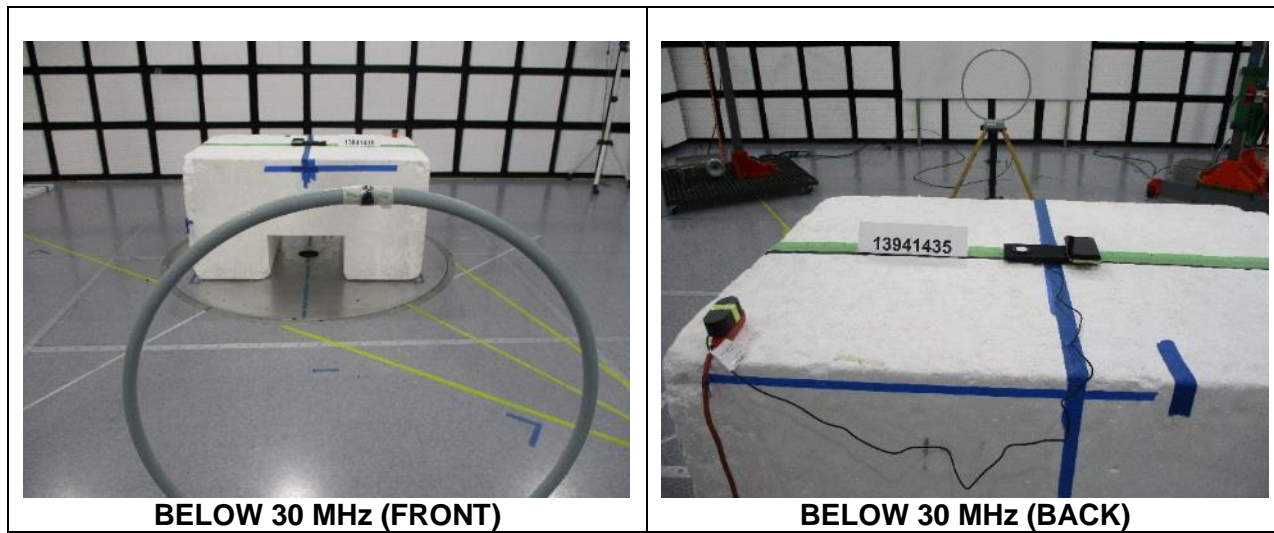
AC LINE CONDUCTED (BACK)

2.3. WPT RADIATED RF MEASUREMENT SETUP

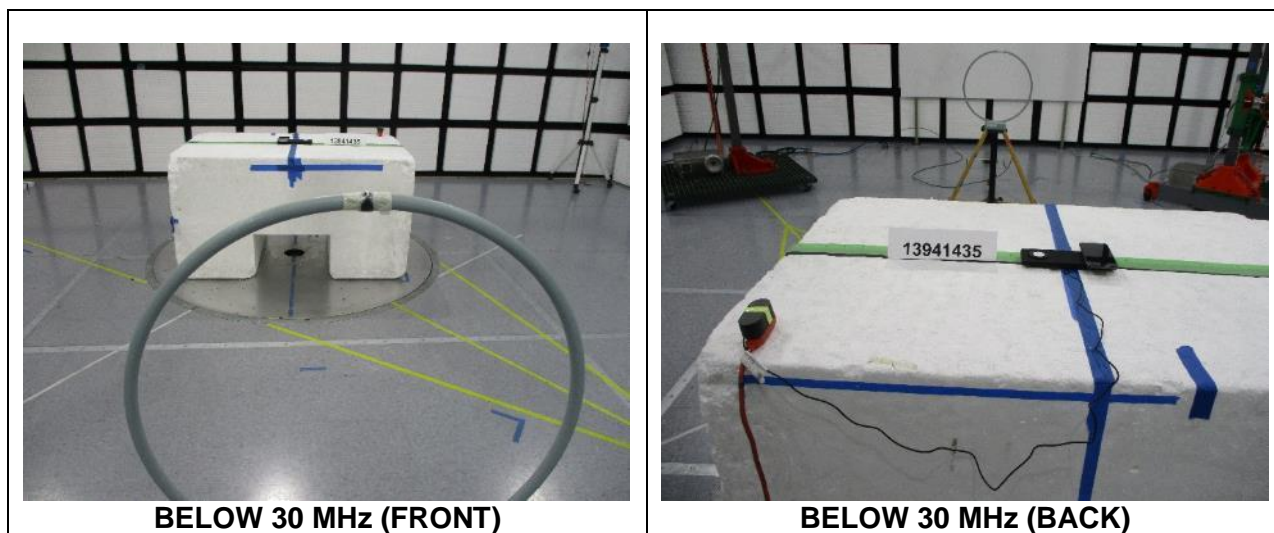
2.3.1. CONFIGURATION 1: STANDBY MODE



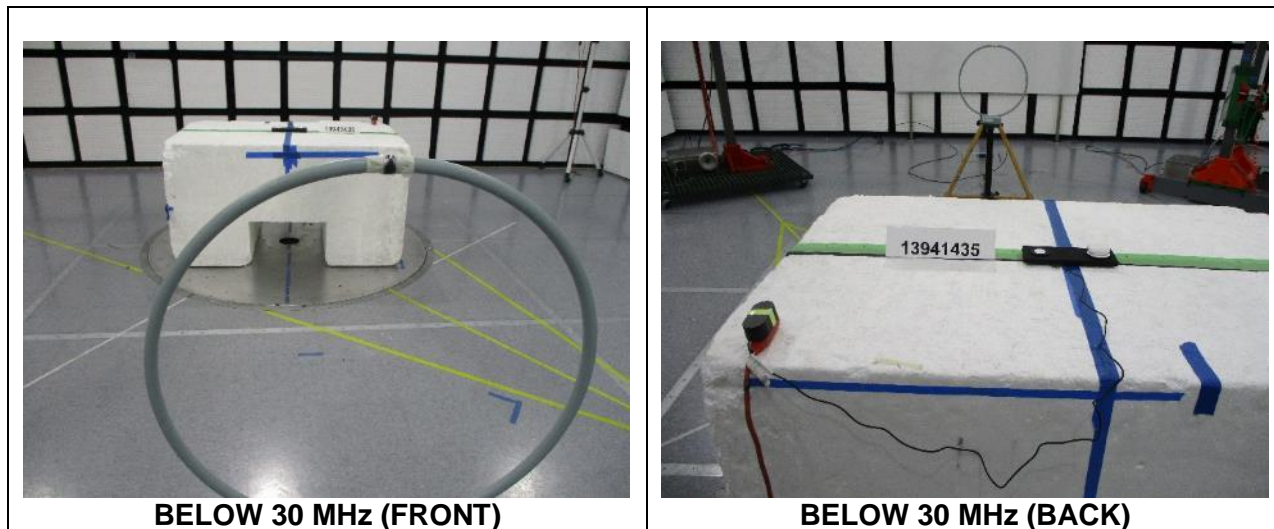
2.3.2. CONFIGURATION 2: OPERATING WITH iPhone (360kHz)



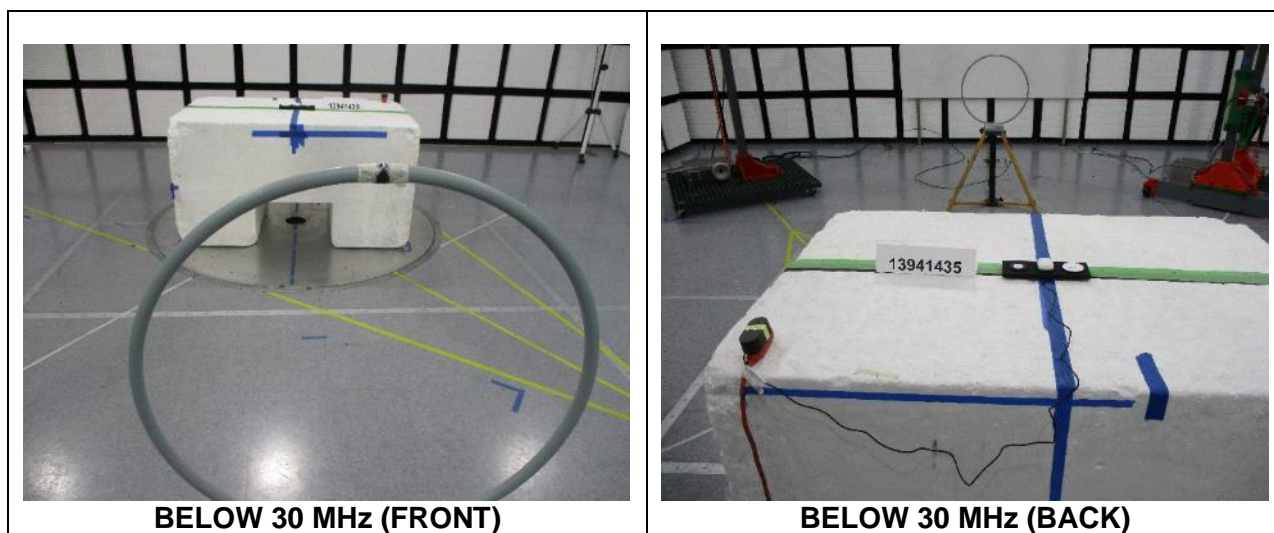
2.3.3. CONFIGURATION 3: OPERATING WITH iPhone (127.7kHz)

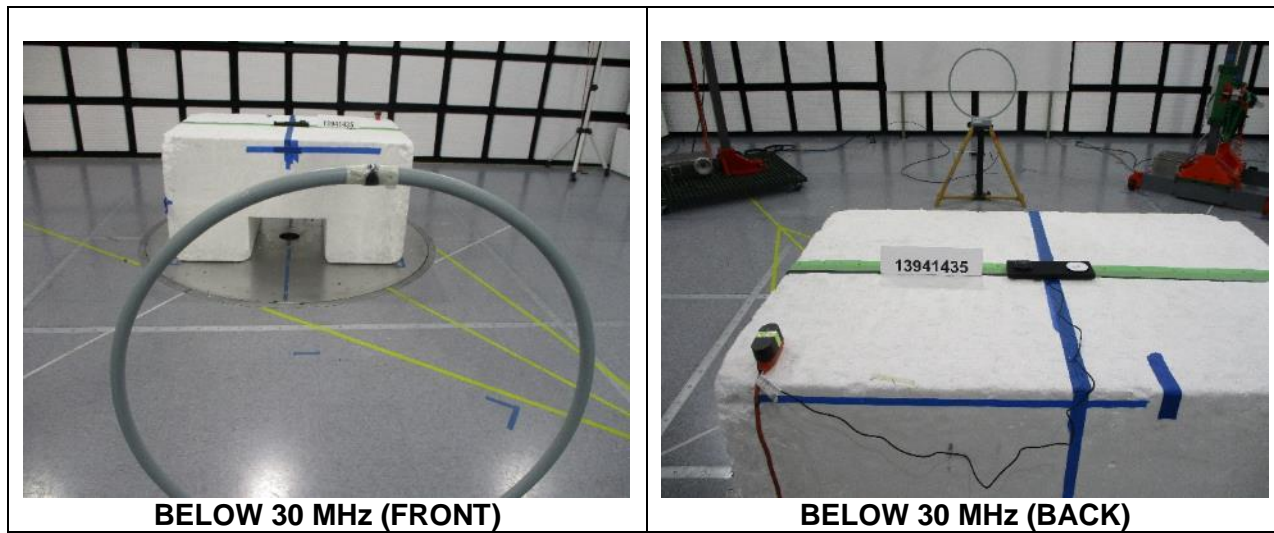
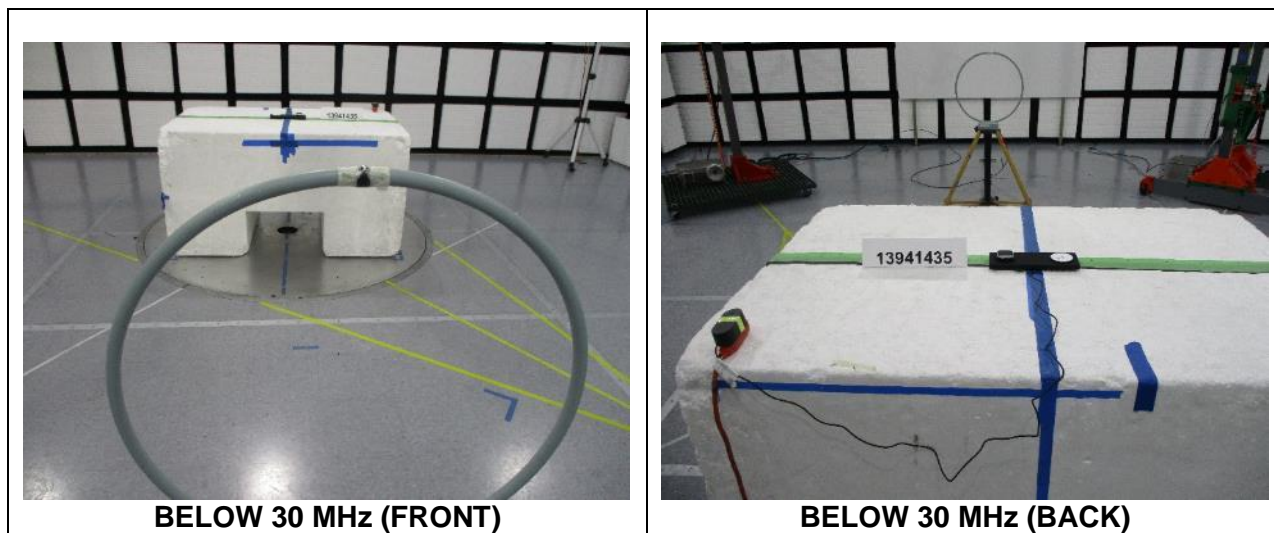


2.3.4. CONFIGURATION 4: OPERATING WITH AirPods Charging Case (127.7kHz)

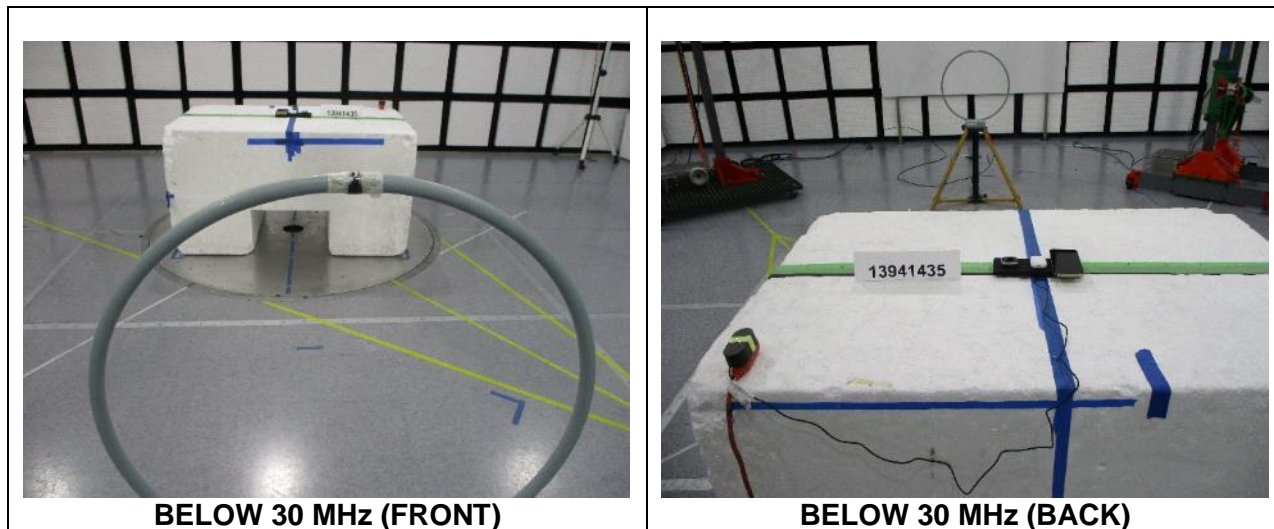


2.3.5. CONFIGURATION 5: OPERATING WITH AirPods Charging Case (110.5kHz to 148.5kHz)

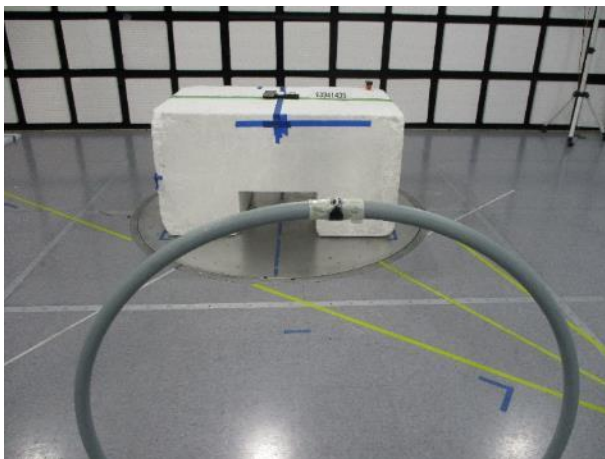


2.3.6. CONFIGURATION 6: OPERATING WITH Apple Watch (326.5kHz)**2.3.7. CONFIGURATION 7: OPERATING WITH Apple Watch (1.778MHz)**

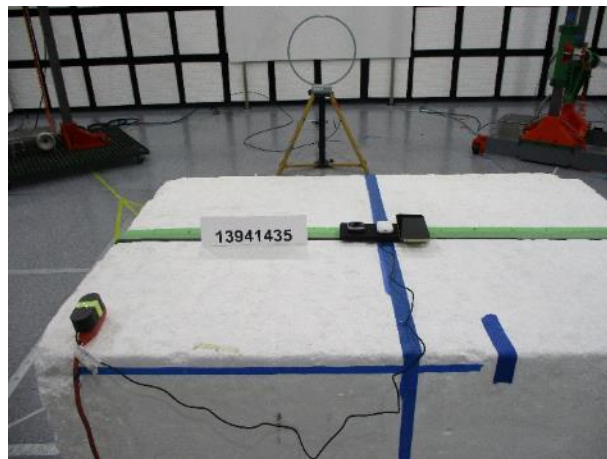
2.3.8. CONFIGURATION 8: OPERATING WITH iPhone + AirPods Charging Case+ Apple Watch)



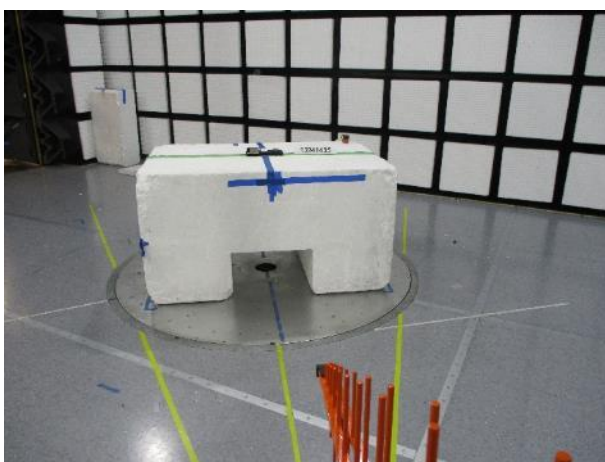
2.3.9. CONFIGURATION 9: OPERATING WITH iPhone + AirPods Charging Case+ Apple Watch



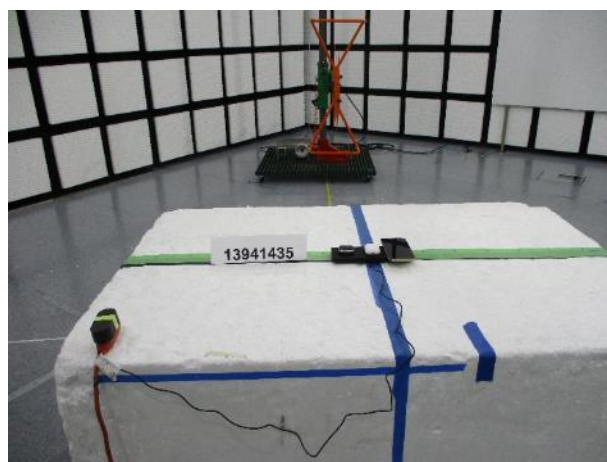
BELOW 30 MHz (FRONT)



BELOW 30 MHz (BACK)

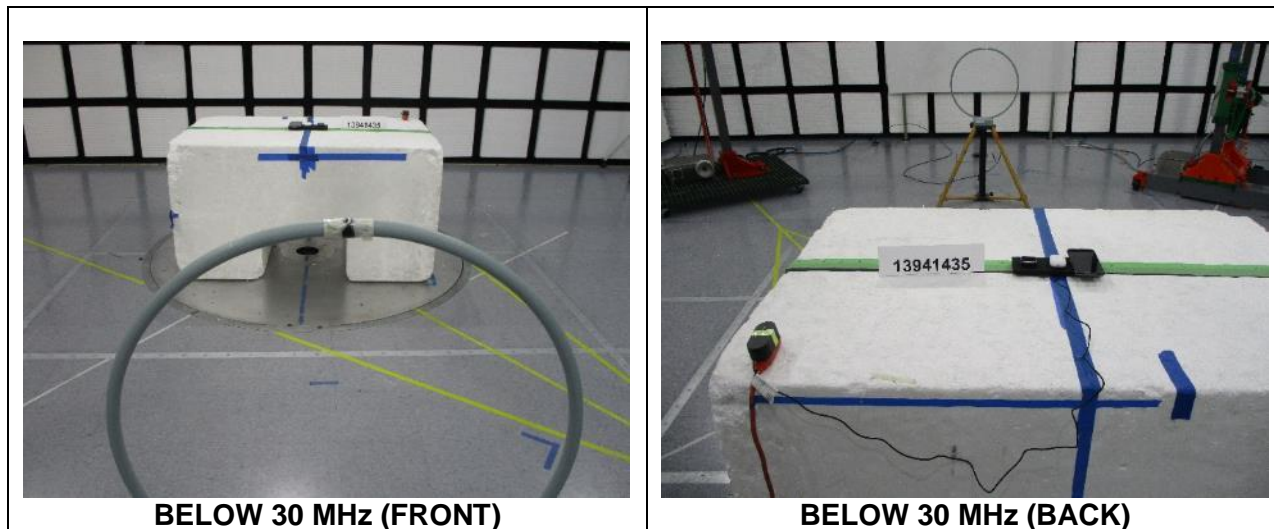


BELOW 1GHz (FRONT)

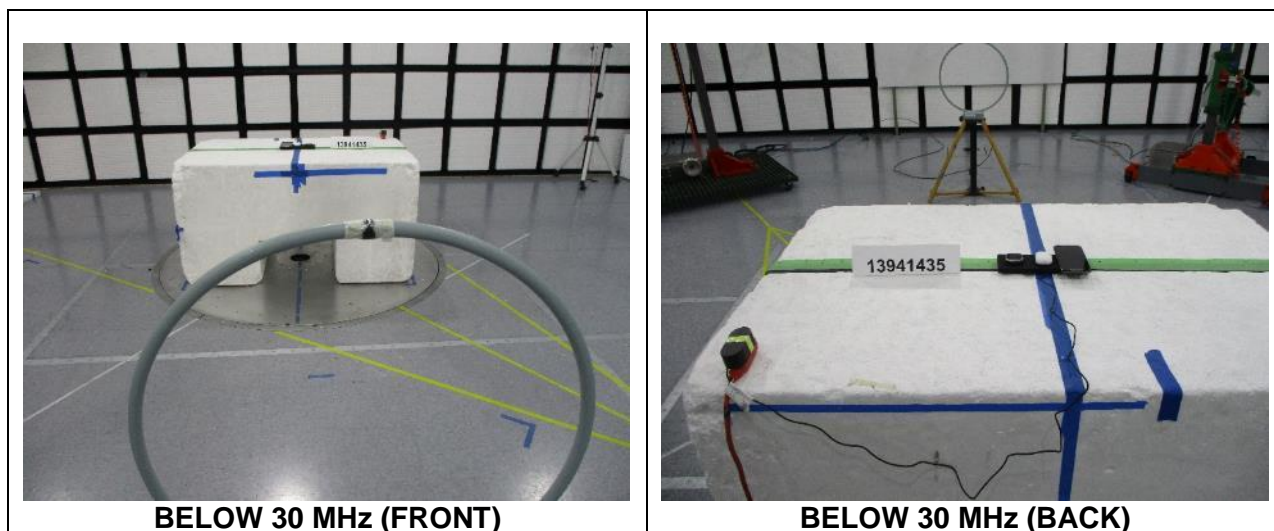


BELOW 1GHz (BACK)

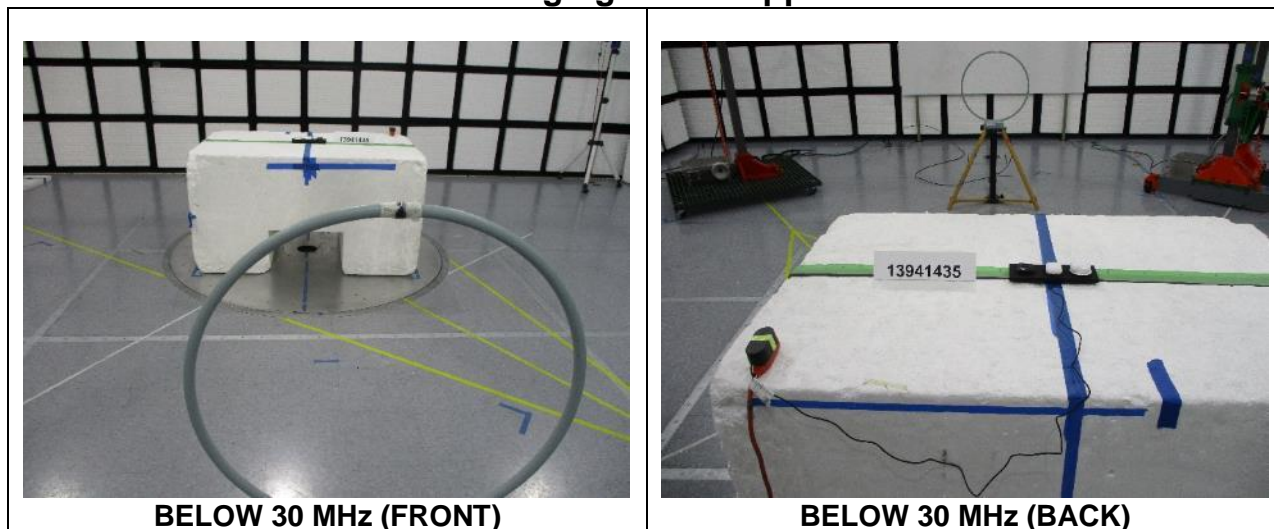
2.3.10. CONFIGURATION 10: OPERATING WITH iPhone + AirPods Charging Case+ Apple Watch



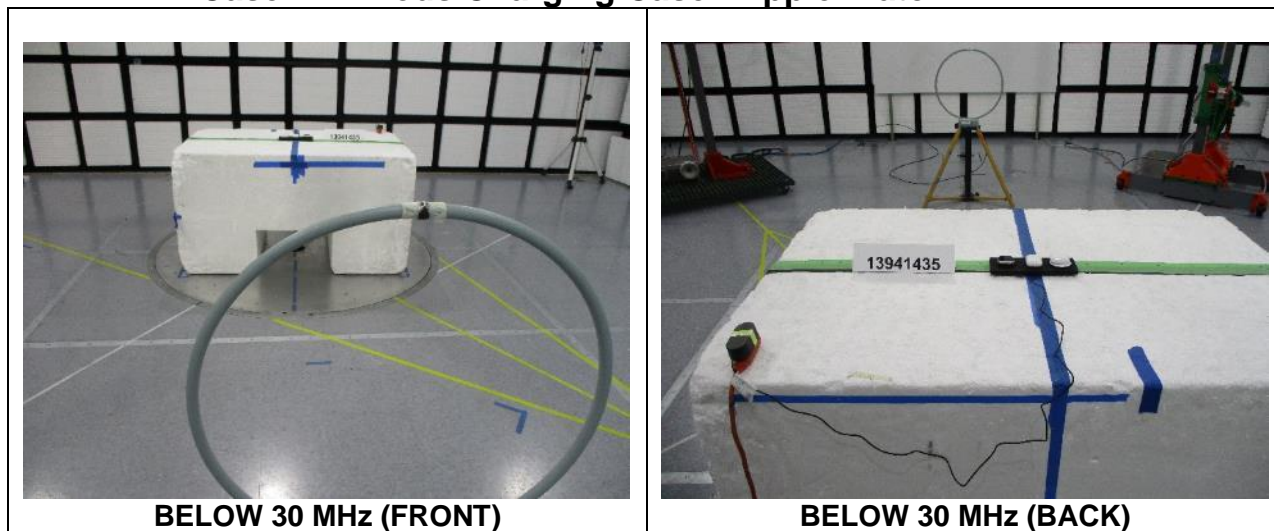
2.3.11. CONFIGURATION 11: OPERATING WITH iPhone + AirPods Charging Case+ Apple Watch



2.3.12. CONFIGURATION 12: OPERATING WITH AirPods Charging Case + AirPods Charging Case+ Apple Watch



2.3.13. CONFIGURATION 13: OPERATING WITH AirPods Charging Case + AirPods Charging Case+ Apple Watch



3. RF EXPOSURE (13941435-E3 Report)

3.1. DESCRIPTION OF TEST SETUP

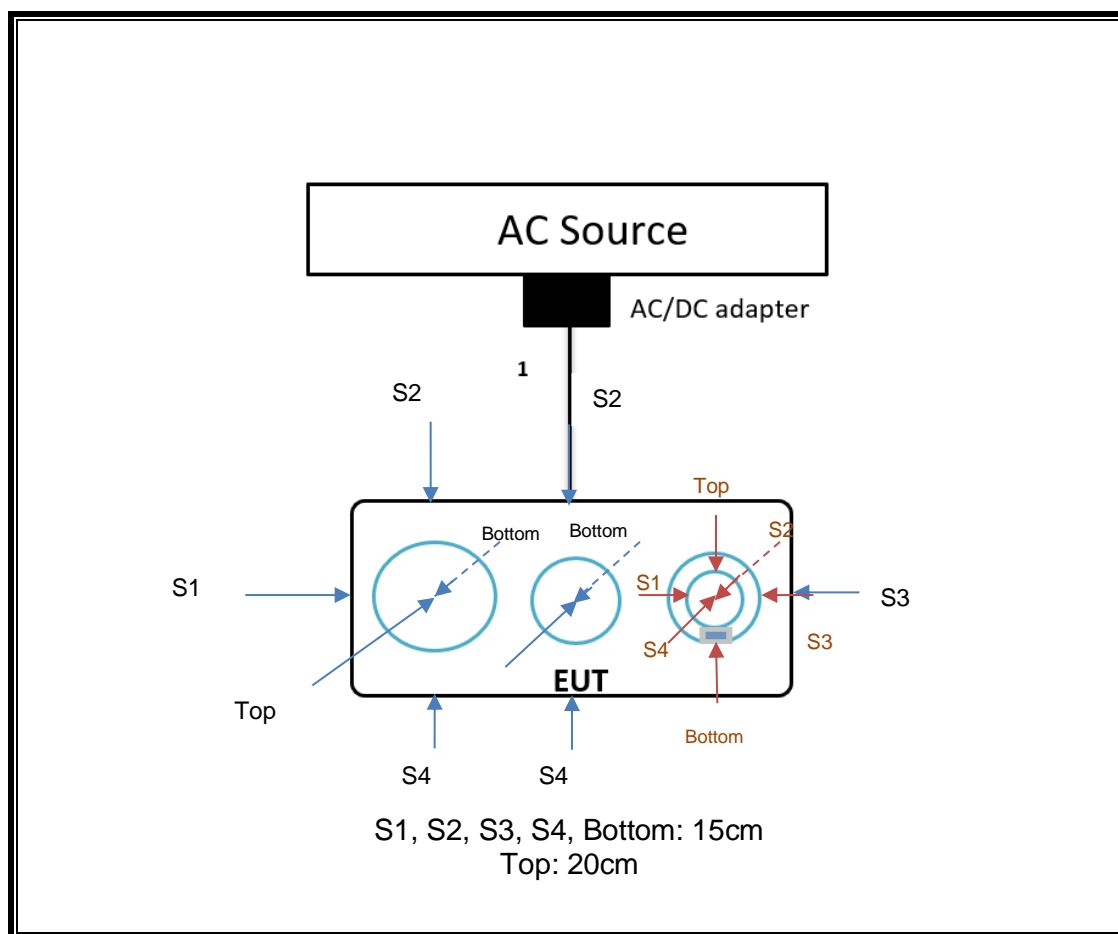
SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
AC/DC adapter		Channel Well Technology Co., Ltd.	2ACR040G NJ	N/A		DoC
Apple Watch		Apple	A2477	JCXW12XMW5		BCG-A2477
Apple Watch		Apple	A2476	GT27CP24C9		BCG-A2476
Apple Watch		Apple	A2474	FFW3V72W9R		BCG-A2474
Legacy Apple Watch		Apple	A1977	FH7XG2HZKDH2		BCG-A1977
Legacy Apple Watch		Apple	A1554	FHLPLLZFG9J8		BCG-E2871
Legacy Apple Watch		Apple	A2092	FHLZM8YQMLTK		BCG-A2092
iPhone 12 Pro Max		Apple	A2342	F2LFKP3R0D41		BCG-E3548A
iPhone 12 Pro Max		Apple	A2342	F2LFL6760D41		BCG-E3548A
iPhone 12 Pro Max		Apple	A2342	F2MFLHTF0D42		BCG-E3548A
iPhone 12 Pro Max		Apple	A2342	F2MFLFJA0D42		BCG-E3548A
iPhone 12 Pro Max		Apple	A2342	F2LFKNTW0D41		BCG-E3548A
iPhone 11 Pro Max		Apple	A2161	FK1ZMDRGN70C		BCG-E3306A
iPhone 11		Apple	A2111	C6KZHK1XN72J		BCG-E3309A
iPhone X		Apple	A1901	G6TVJ7H8JCLH		BCG-E3175A
AirPods Pro		Apple	A2084	H32DW5EP0C6L		BCG-A2084
AirPods Pro		Apple	A2084	H7CDM9870C6L		BCG-A2084
I/O CABLES (AC LINE CONDUCTED)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC Jack	Un-shielded	1.2	

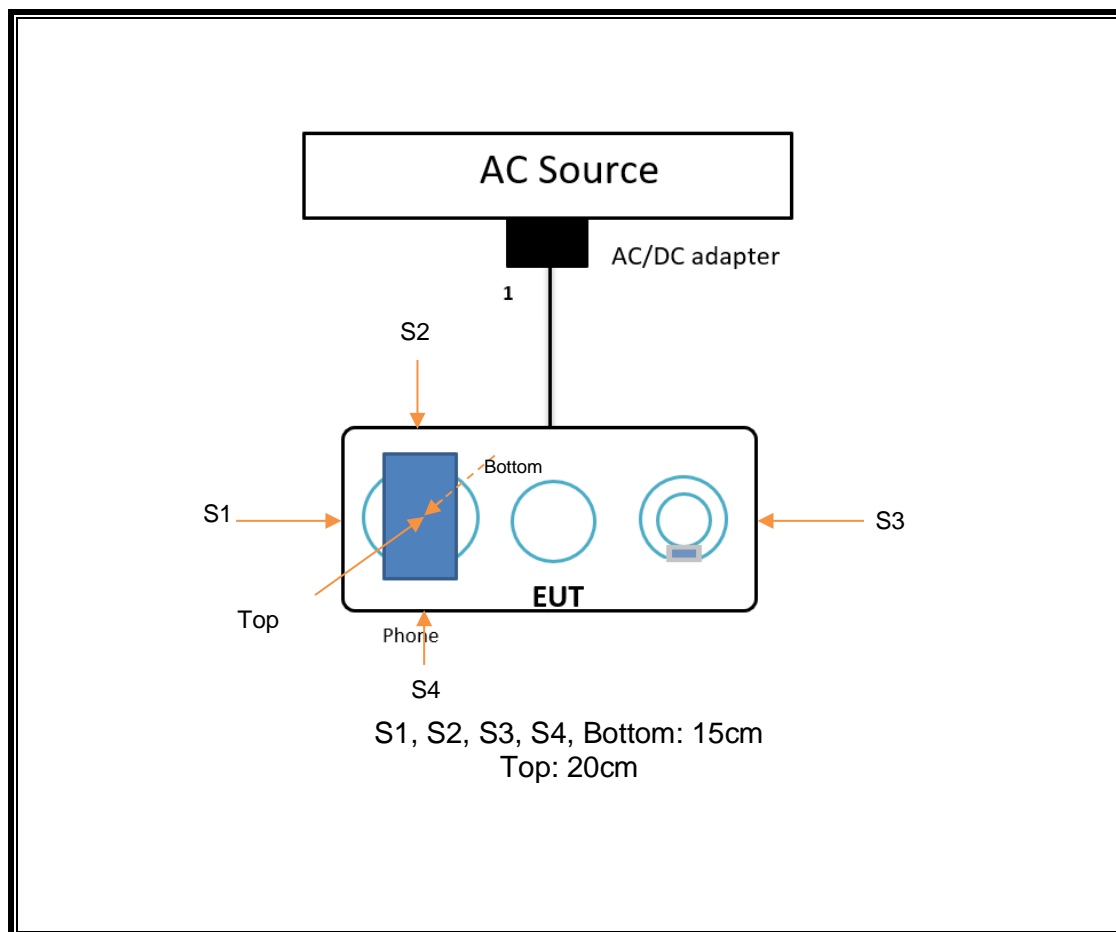
TEST SETUP

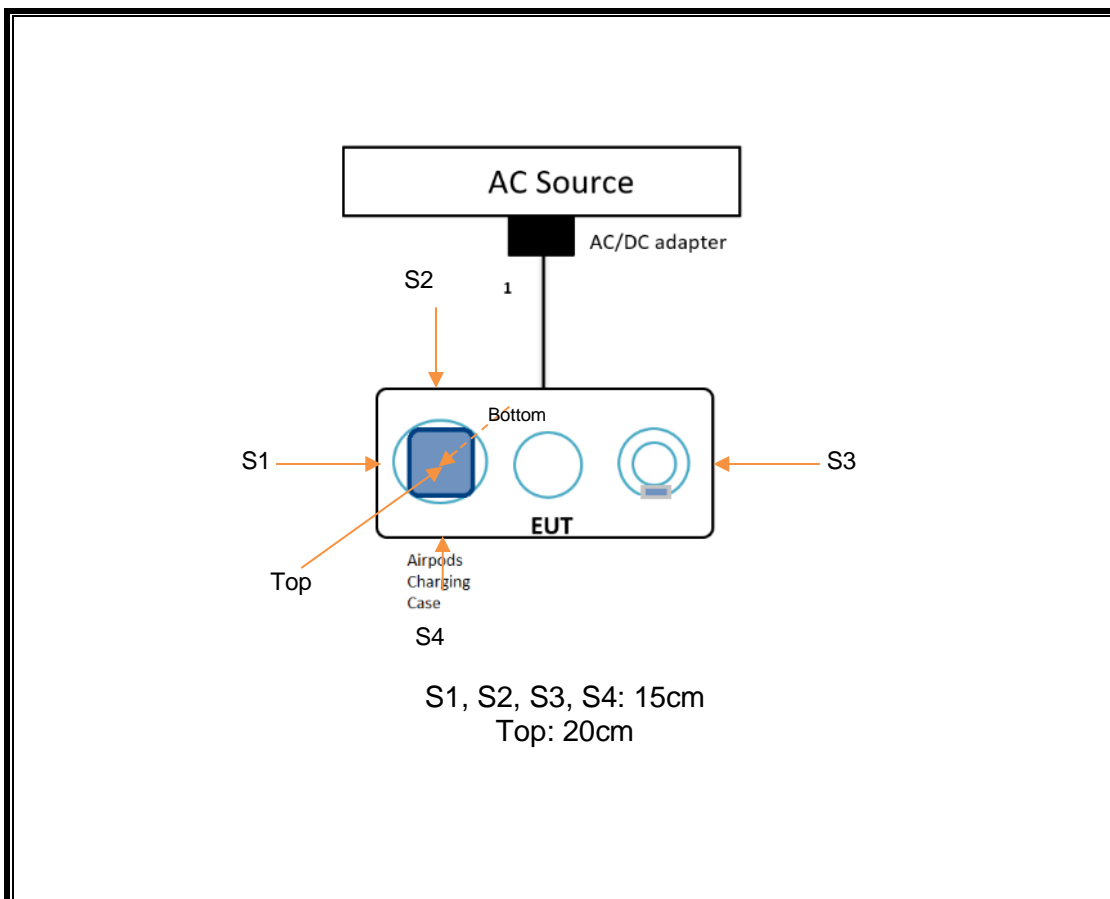
The following configurations are tested:

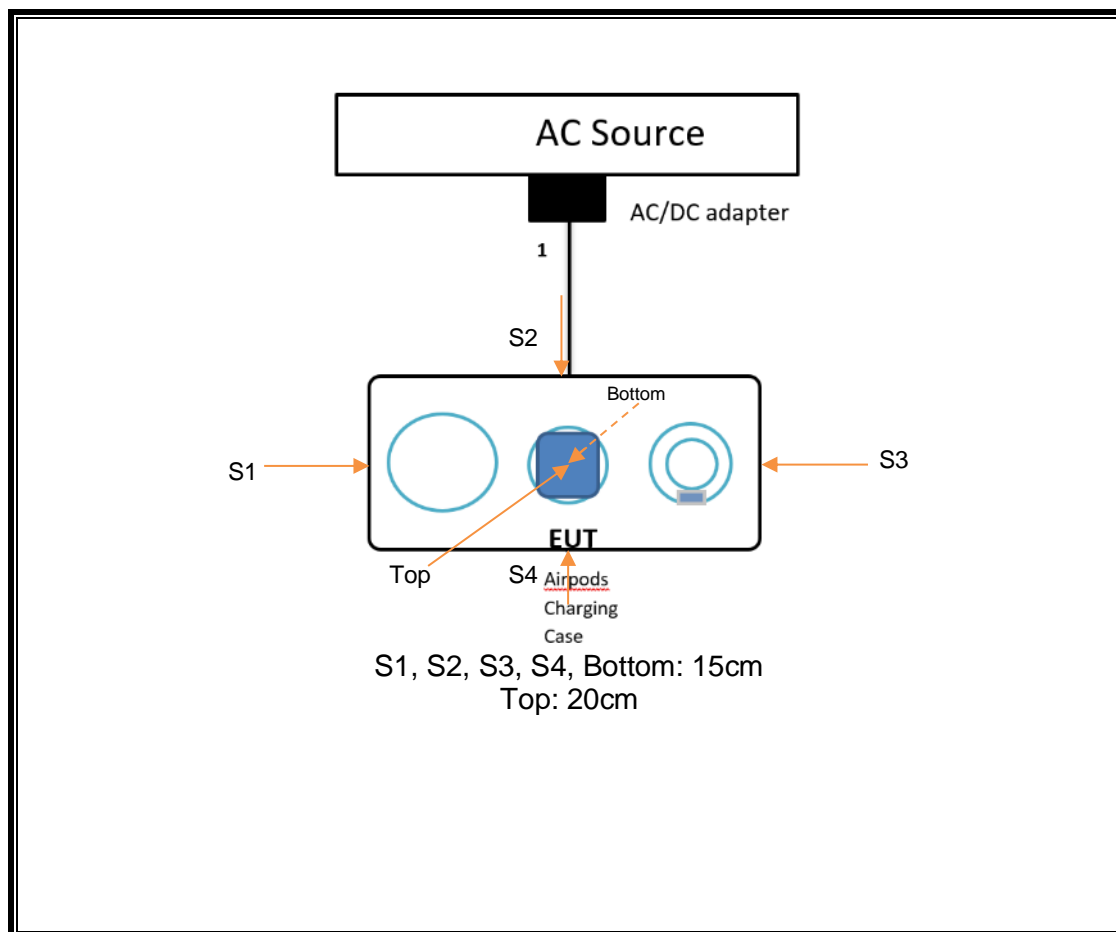
MEASUREMENT SETUP

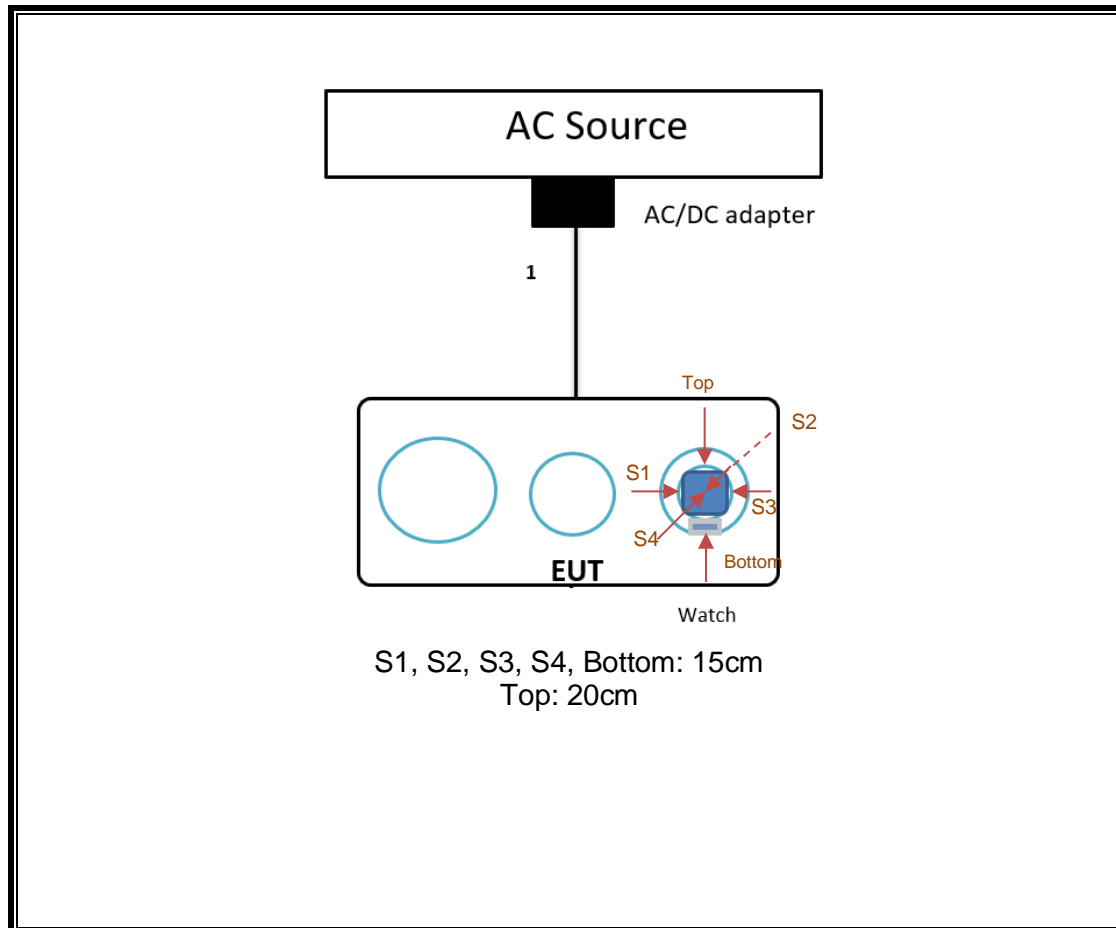
The measurements were taken using a probe placed 15 cm surrounding the device and 20 cm above the top surface for all configurations on each individual coil per KDB 680106 D01.

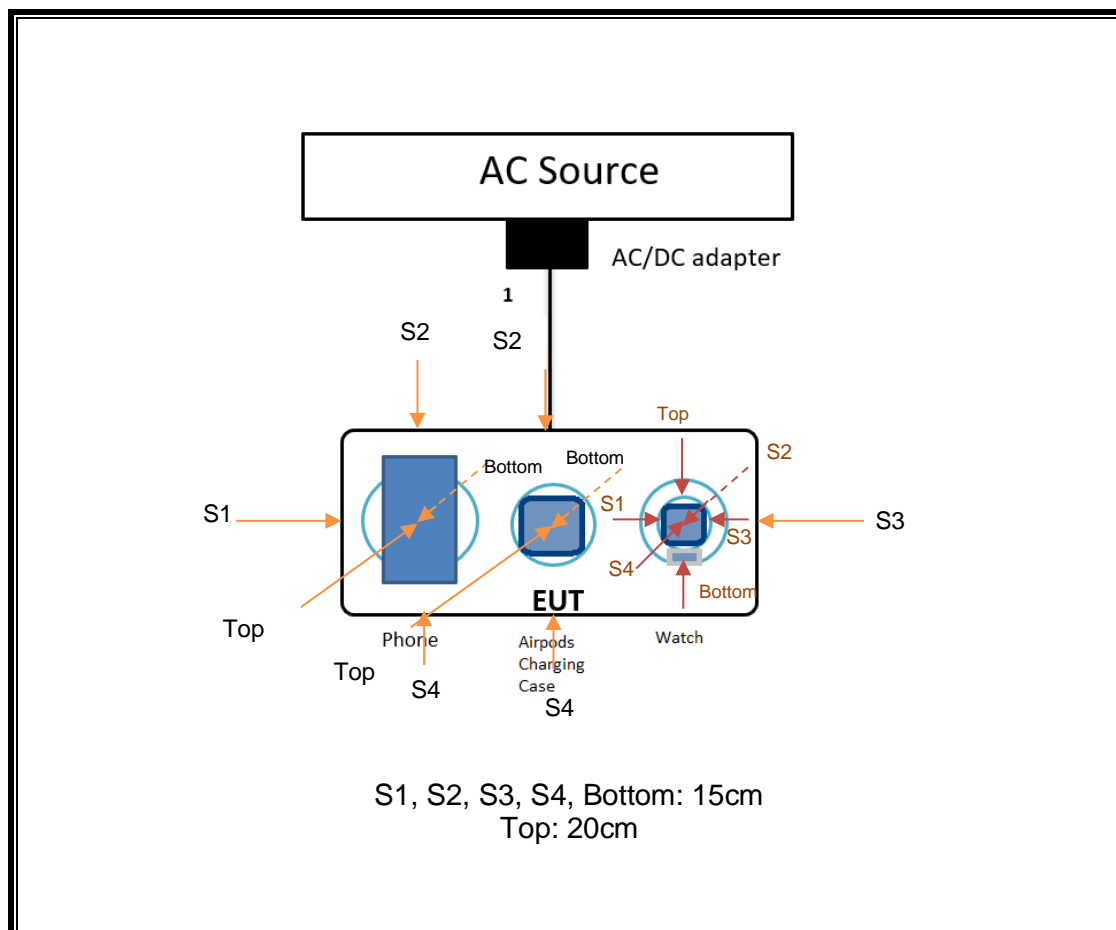
CONFIGURATION 1: Standby

CONFIGURATION 2, 3: iPhone

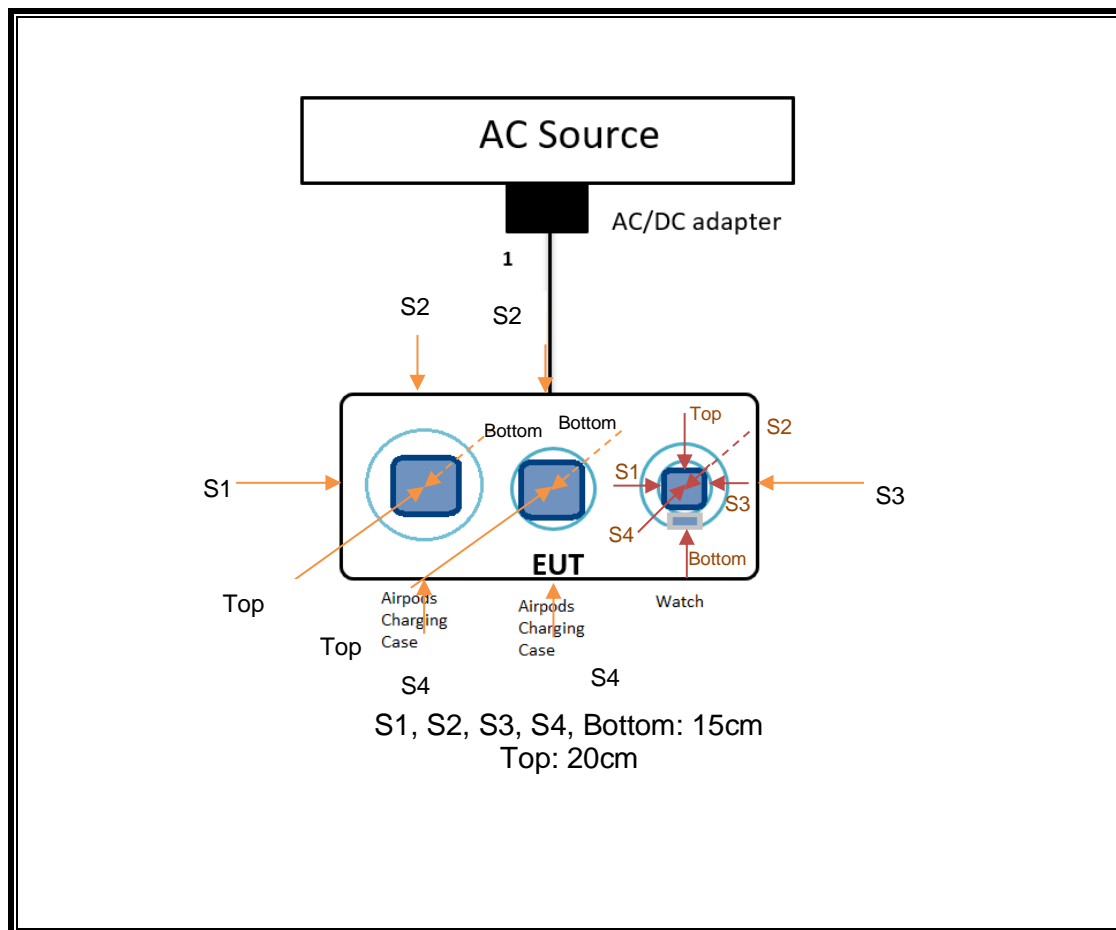
CONFIGURATION 4: AirPods Charging Case with AirPods

CONFIGURATION 5: AirPods Charging Case with AirPods

CONFIGURATION 6, 7: Apple Watch

CONFIGURATION 8, 9, 10, 11: iPhone + AirPods Charging Case with AirPods + Apple Watch

CONFIGURATION 12, 13: AirPods Charging Case with AirPods + AirPods Charging Case with AirPods + Apple Watch

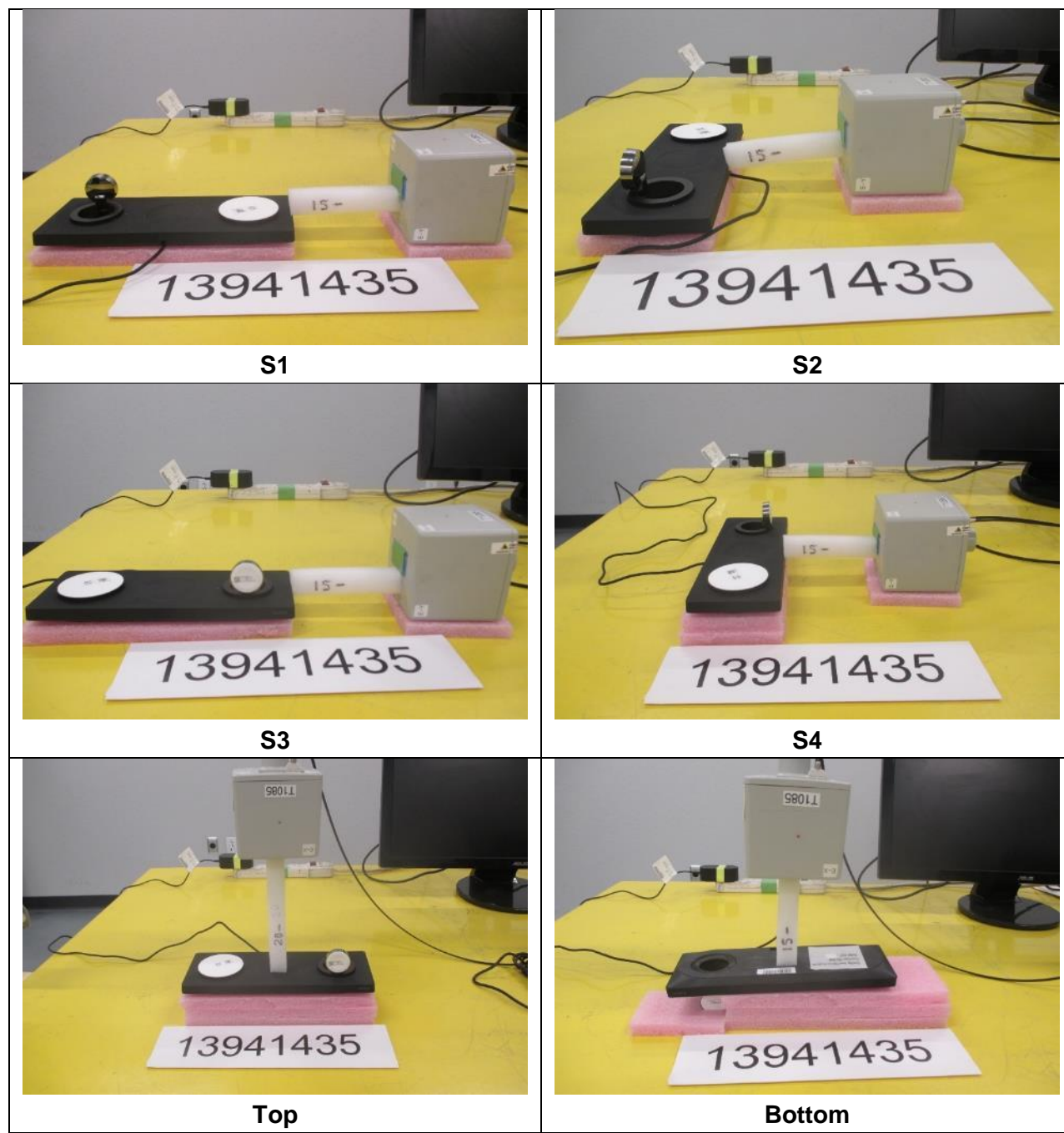


3.2. FCC RF EXPOSURE SETUP PHOTO

1. FCC setting: Top=20cm, S1/S2/S3/S4/Bottom=15cm from the charging coil

3.2.1. FCC CONFIGURATION 1: STANDBY MODE

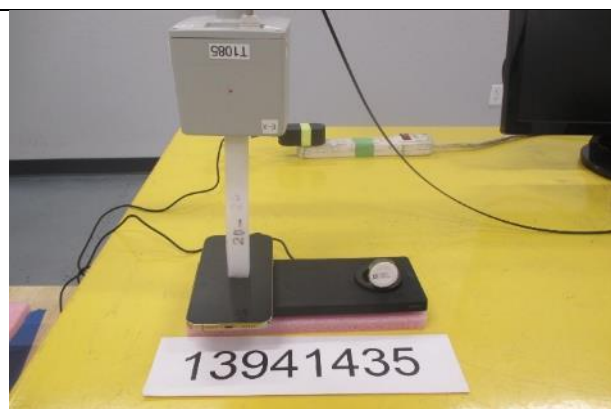
110.5 -148.5kHz Coil



326.5kHz Coil**S1****S2****S3****S4****Top****Bottom**

3.2.2. FCC CONFIGURATION 2: OPERATING WITH iPhone

360.kHz Coil

**S1****S2****S3****S4****Top****Bottom**

3.2.3. FCC CONFIGURATION 3: OPERATING WITH iPhone

127.7kHz



S1



S2



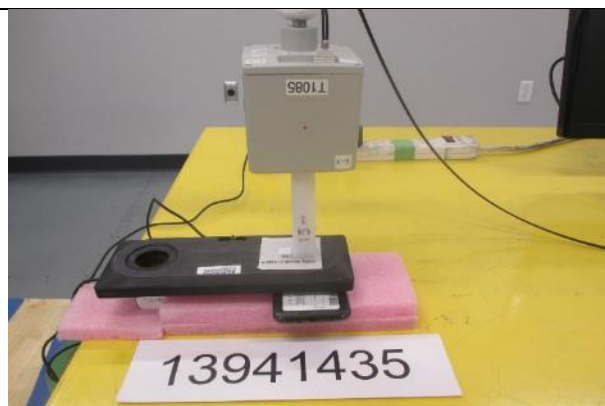
S3



S4



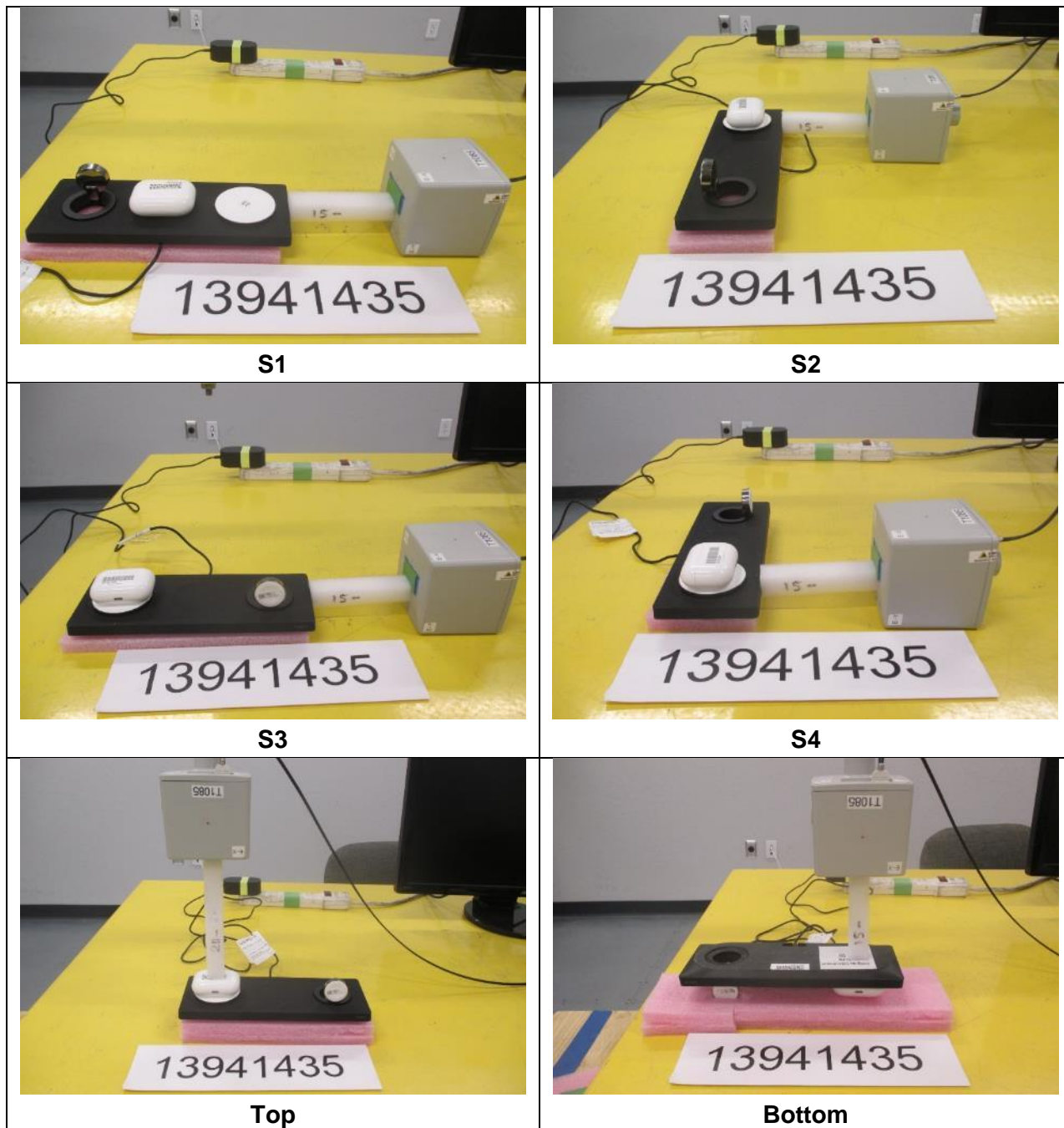
Top



Bottom

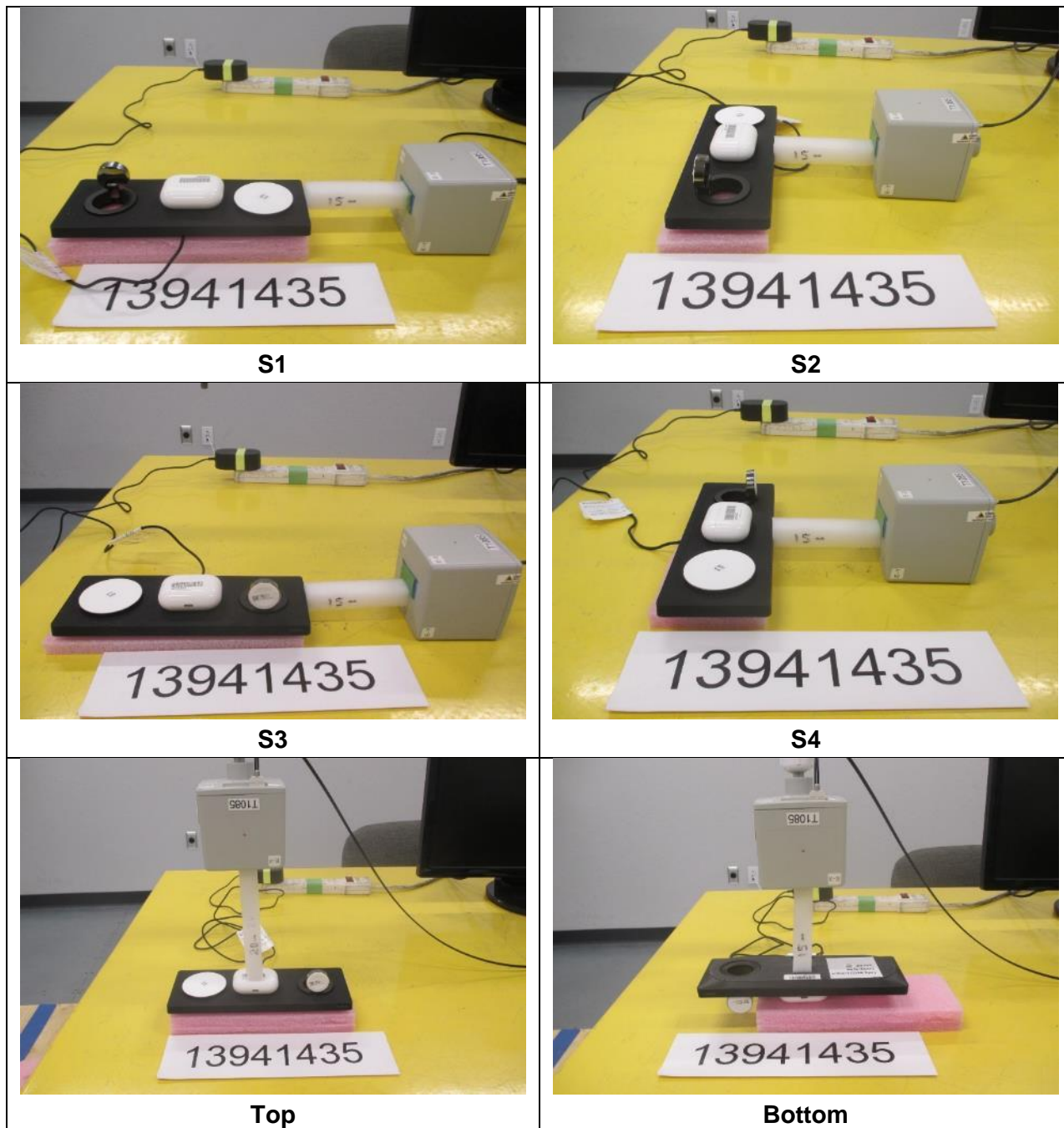
3.2.4. FCC CONFIGURATION 4: OPERATING WITH AirPods Charging Case

127.7kHz Coil



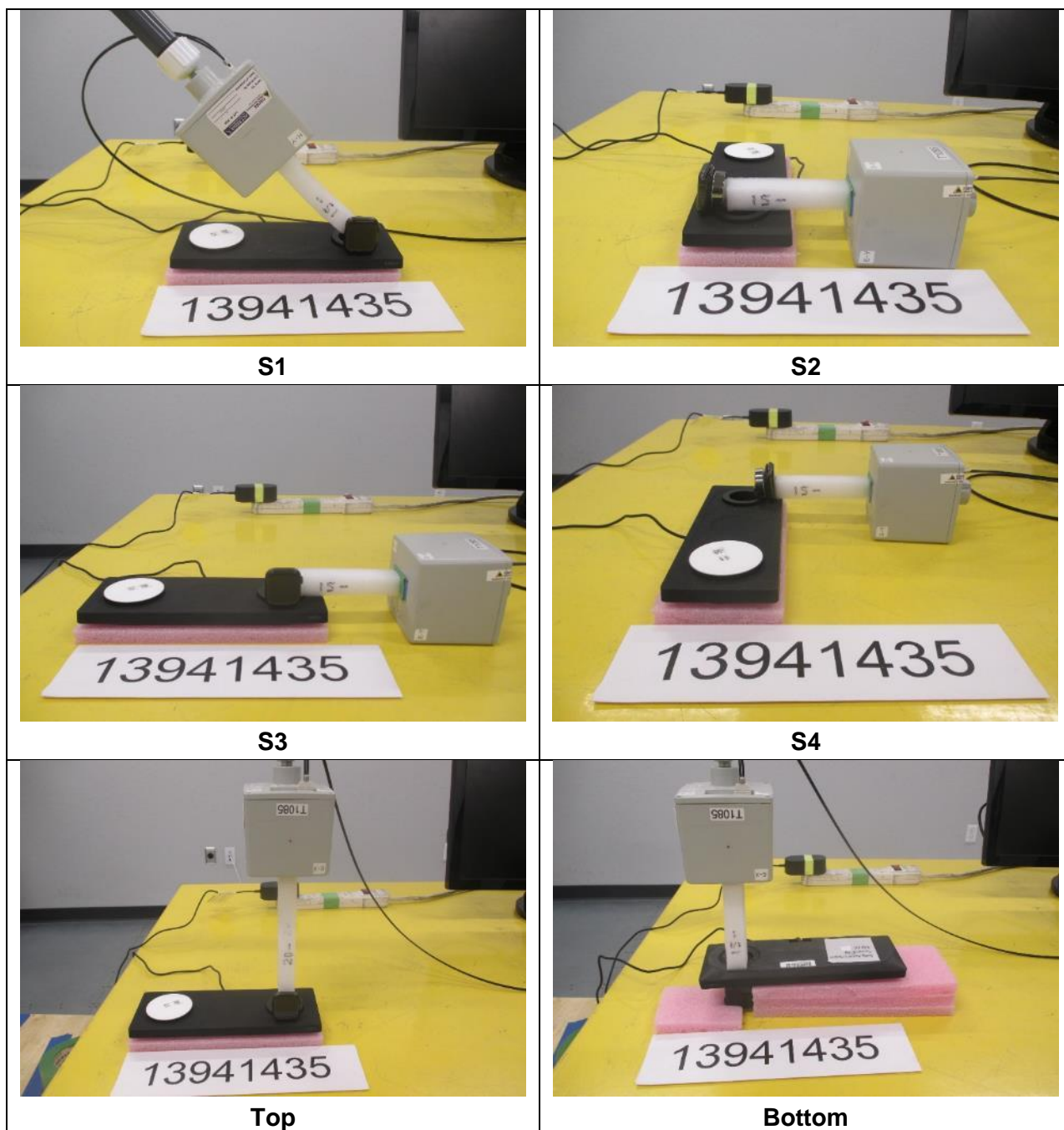
3.2.5. FCC CONFIGURATION 5: OPERATING WITH AirPods Charging Case

110.5 -148.5kHz Coil



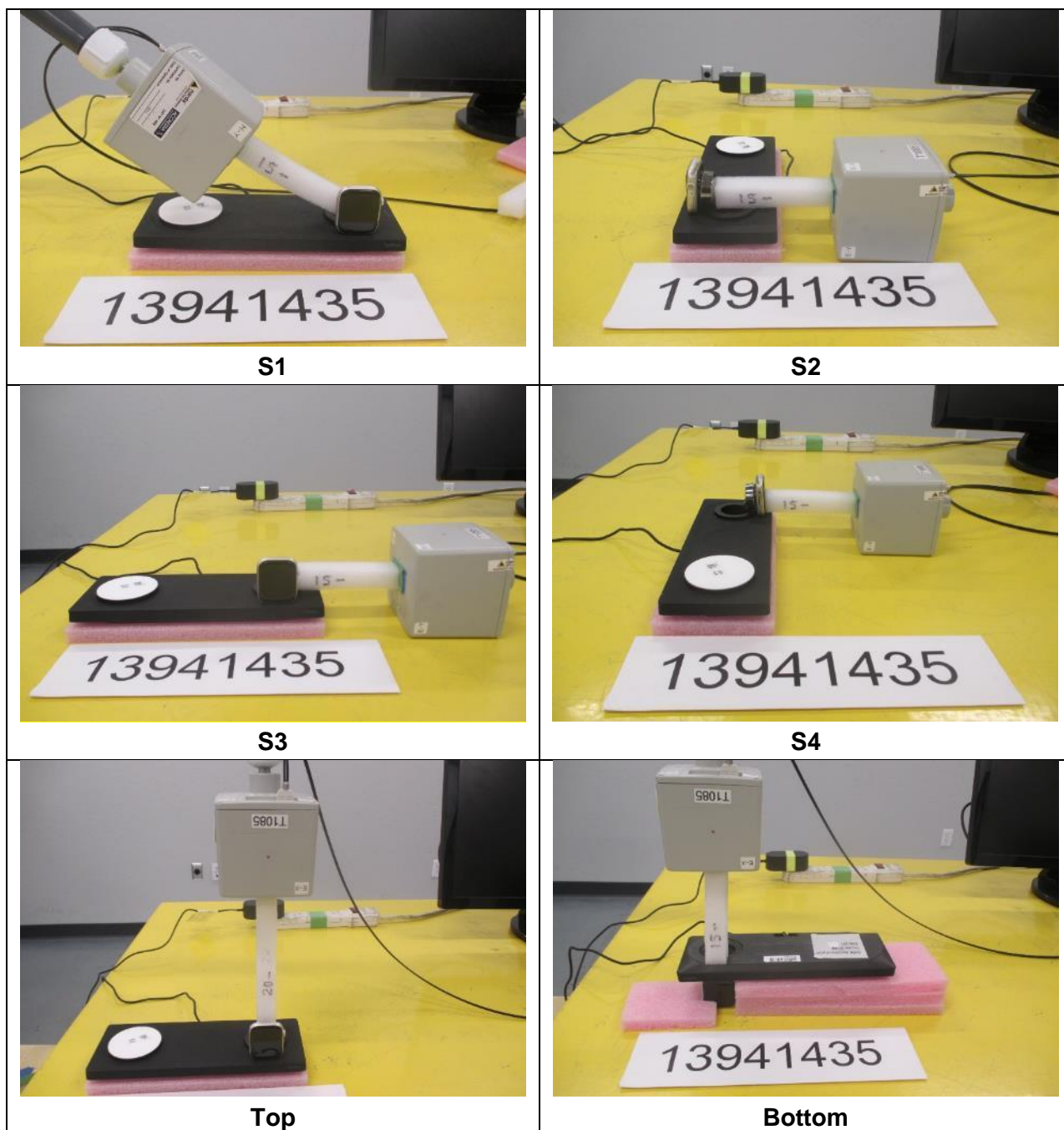
3.2.6. FCC CONFIGURATION 6: OPERATING WITH Apple Watch

326.5kHz Coil



3.2.7. FCC CONFIGURATION 7: OPERATING WITH Apple Watch

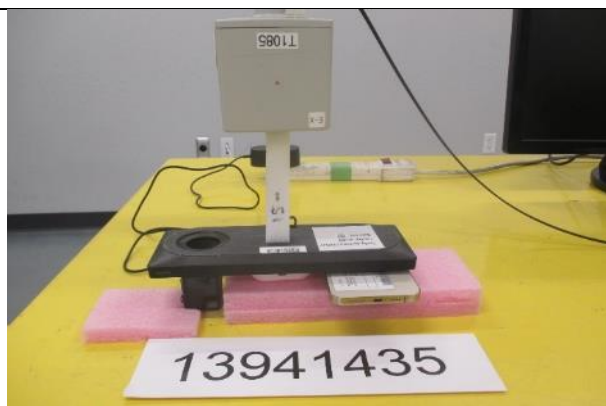
1.778MHz Coil

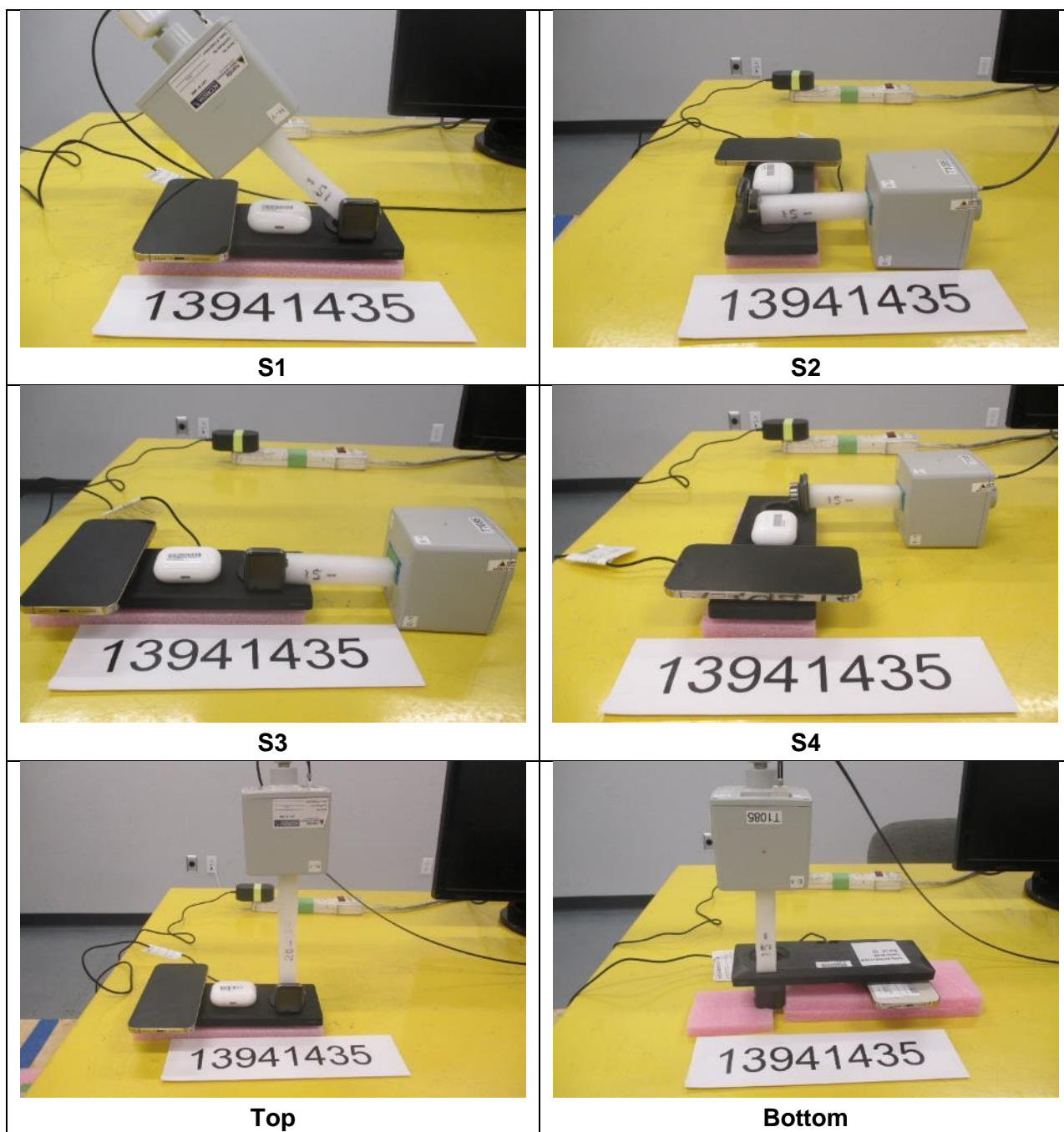


3.2.8. FCC CONFIGURATION 8: OPERATING WITH iPhone + AirPods Charging Case + Apple Watch

360kHz Coil

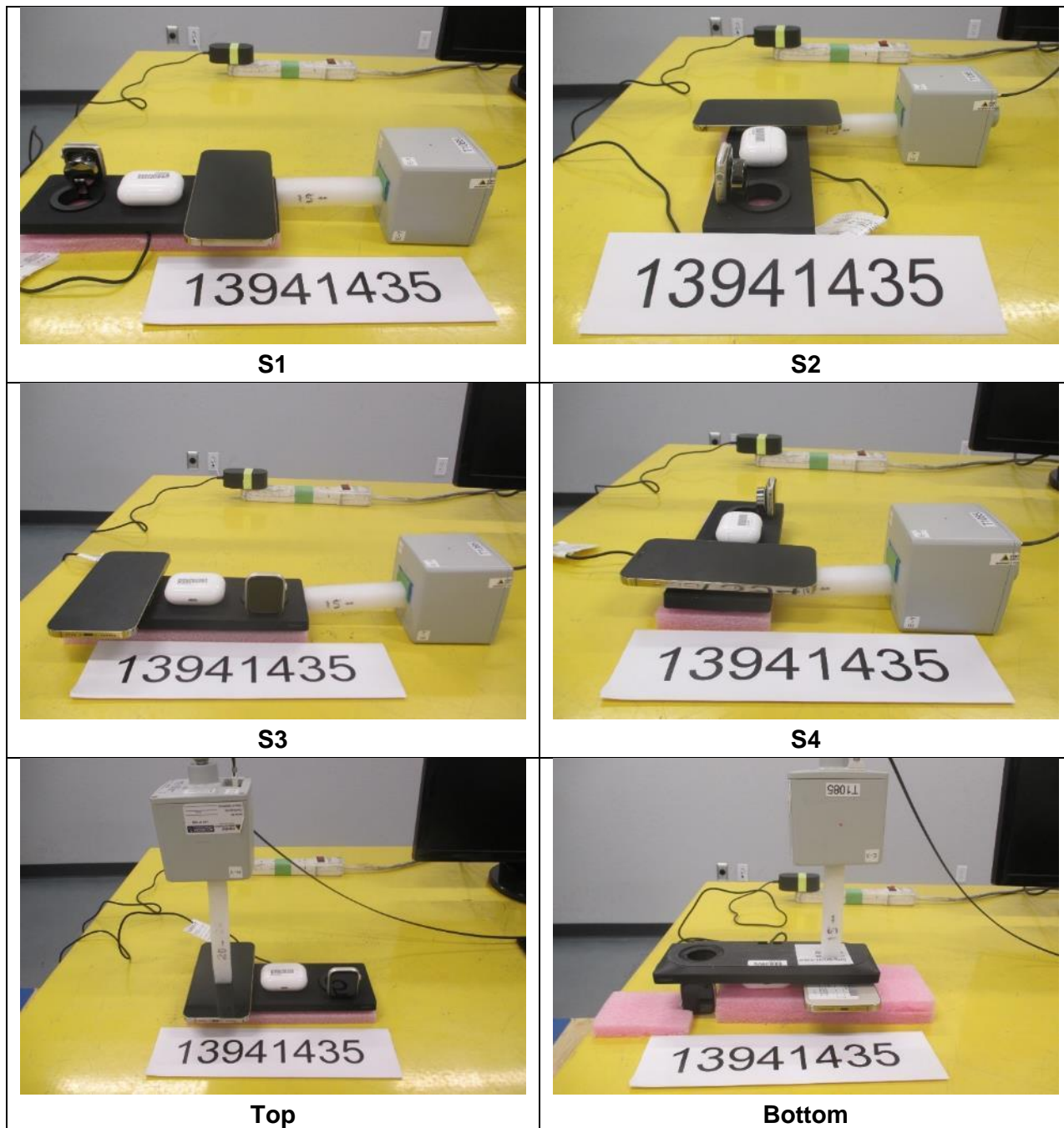


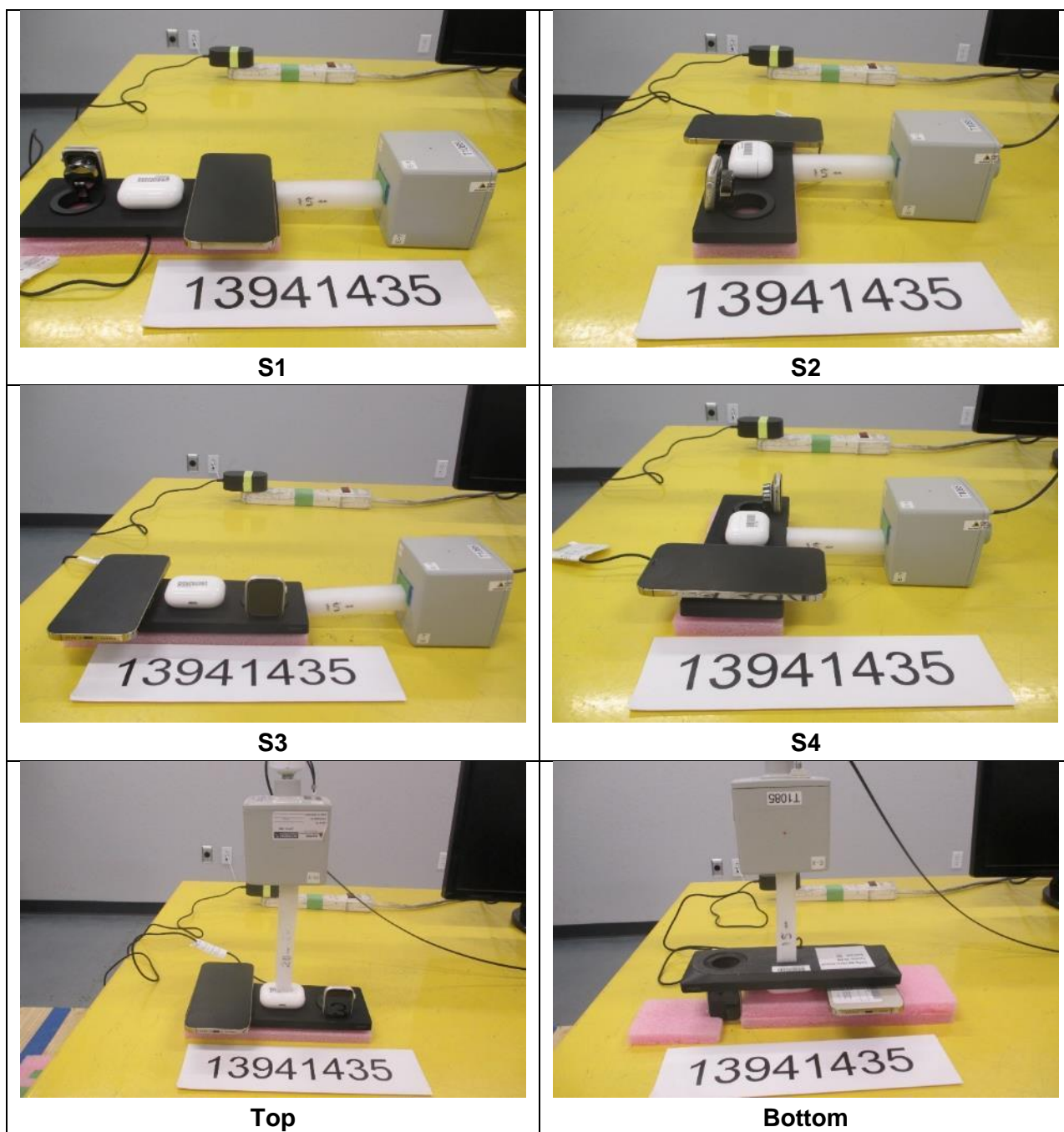
110.5 -148.5kHz Coil**S1****S2****S3****S4****Top****Bottom**

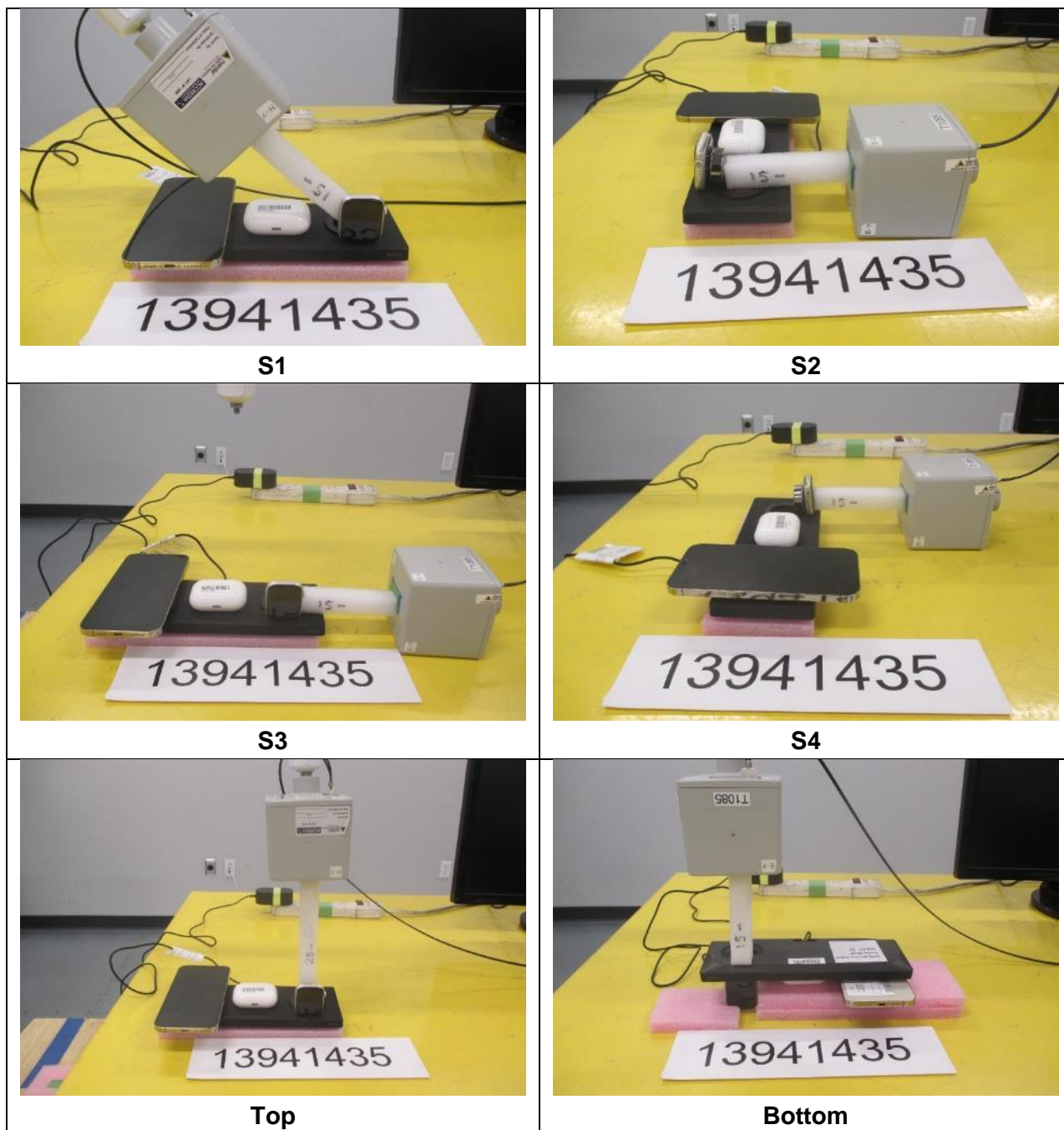
326.5kHz Coil

3.2.9. FCC CONFIGURATION 9: OPERATING WITH iPhone + AirPods Charging Case + Apple Watch

360kHz Coil

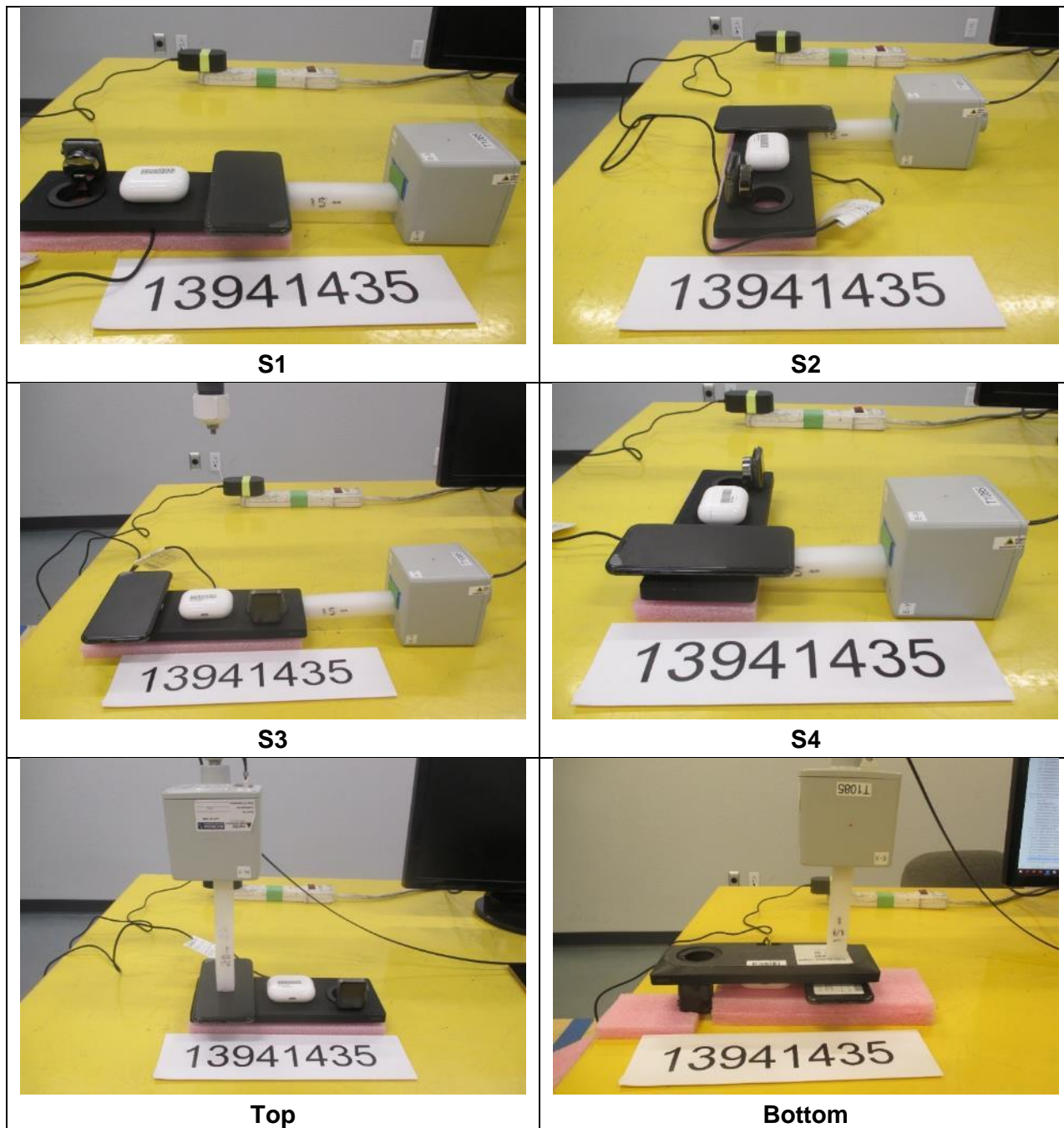


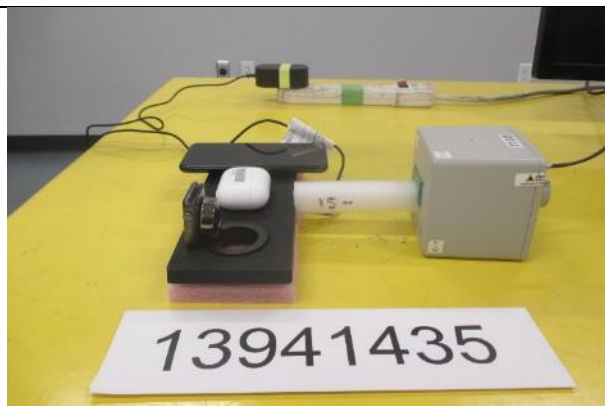
110.5 -148.5kHz Coil

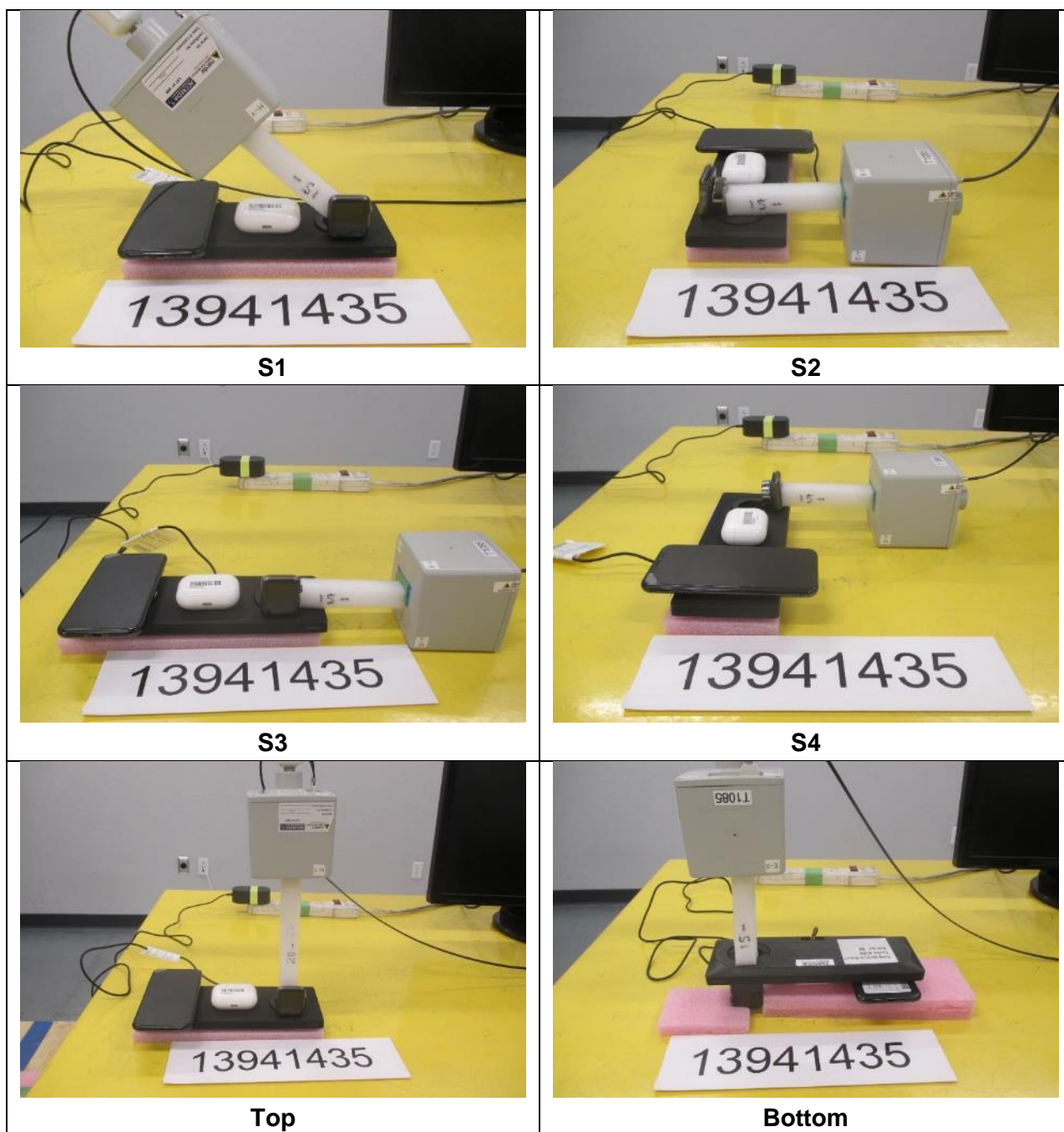
1.778MHz Coil

3.2.10. FCC CONFIGURATION 10: OPERATING WITH iPhone + AirPods Charging Case + Apple Watch

127.7kHz Coil

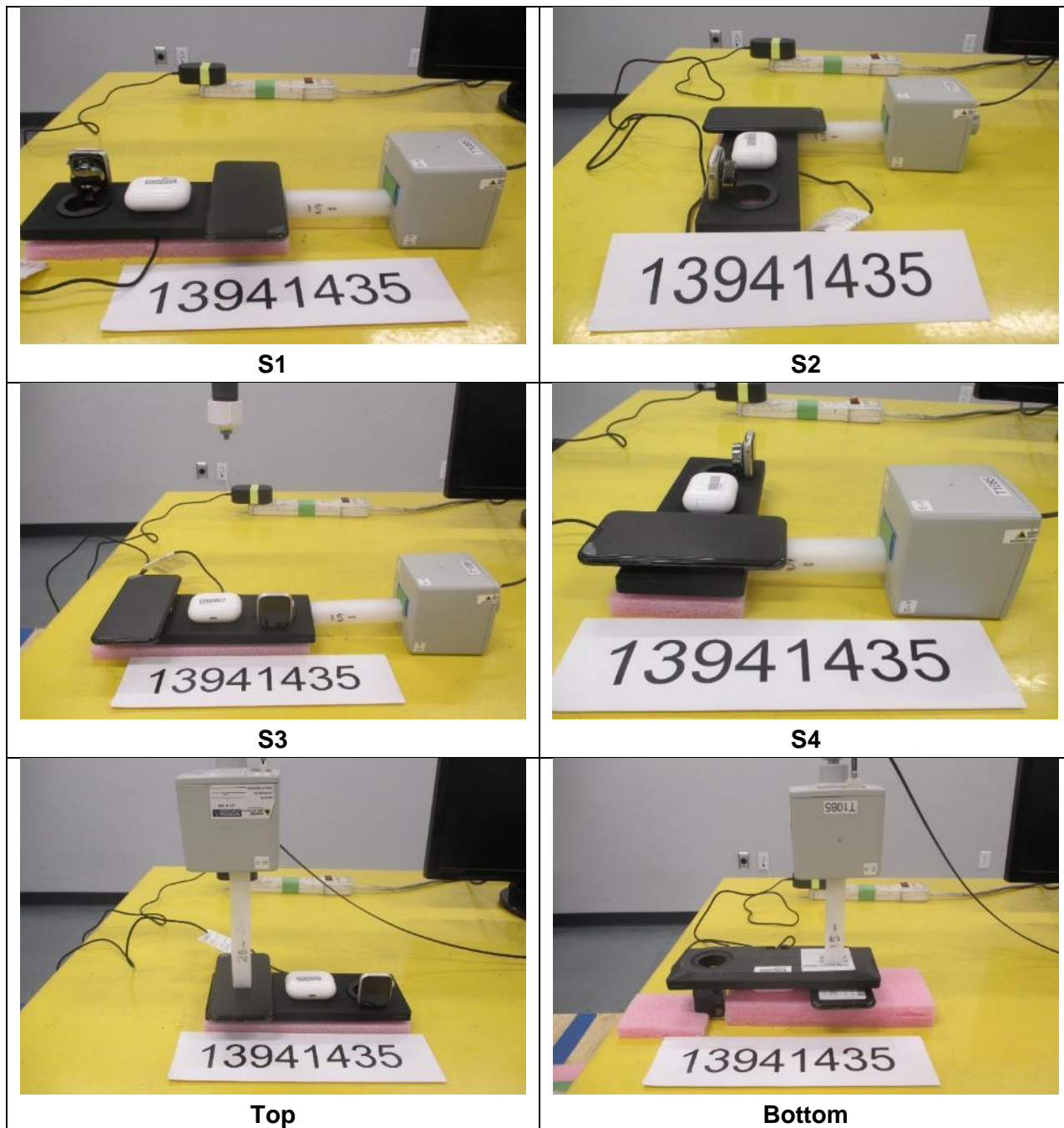


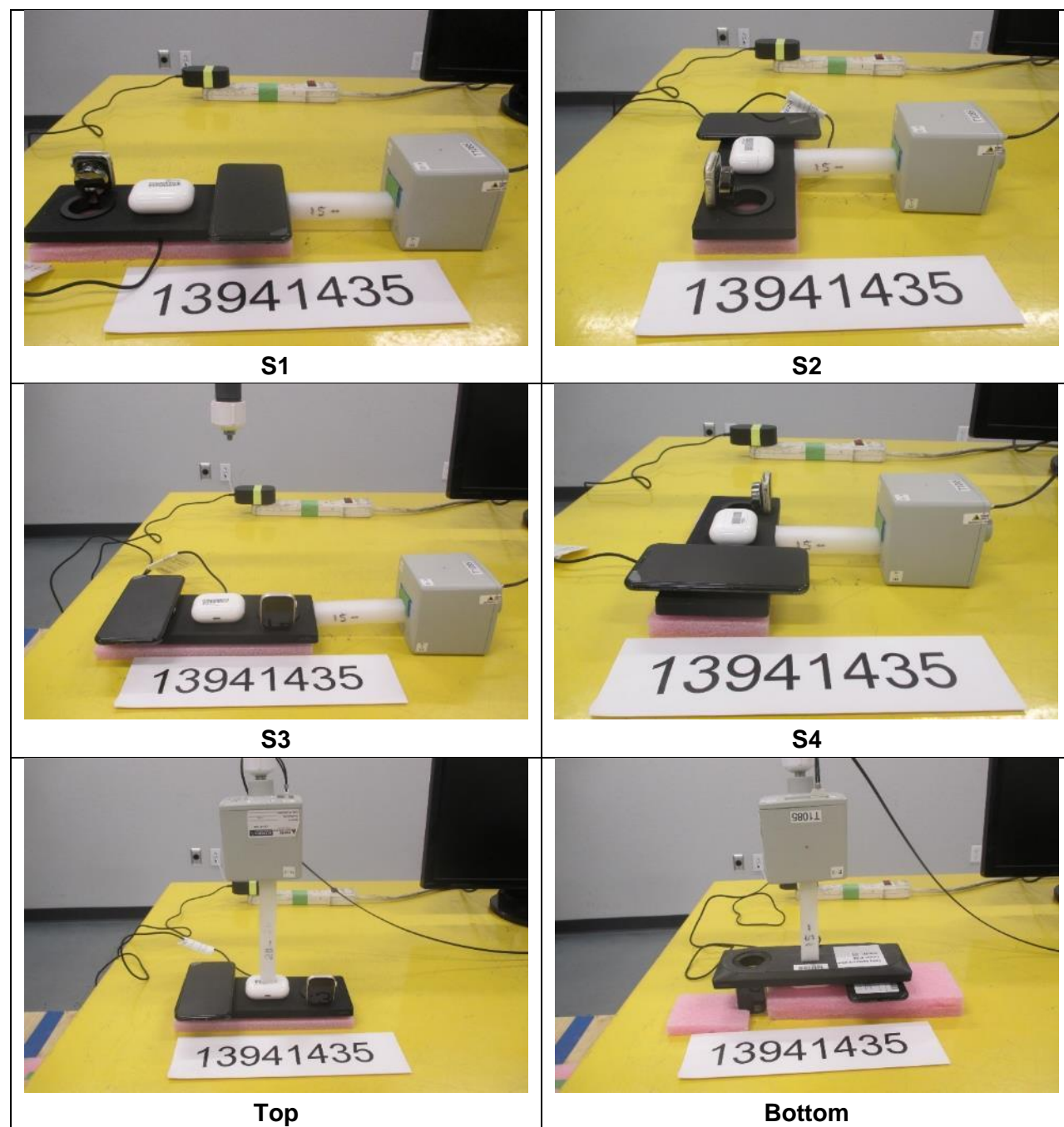
110.5 -148.5kHz Coil**S1****S2****S3****S4****Top****Bottom**

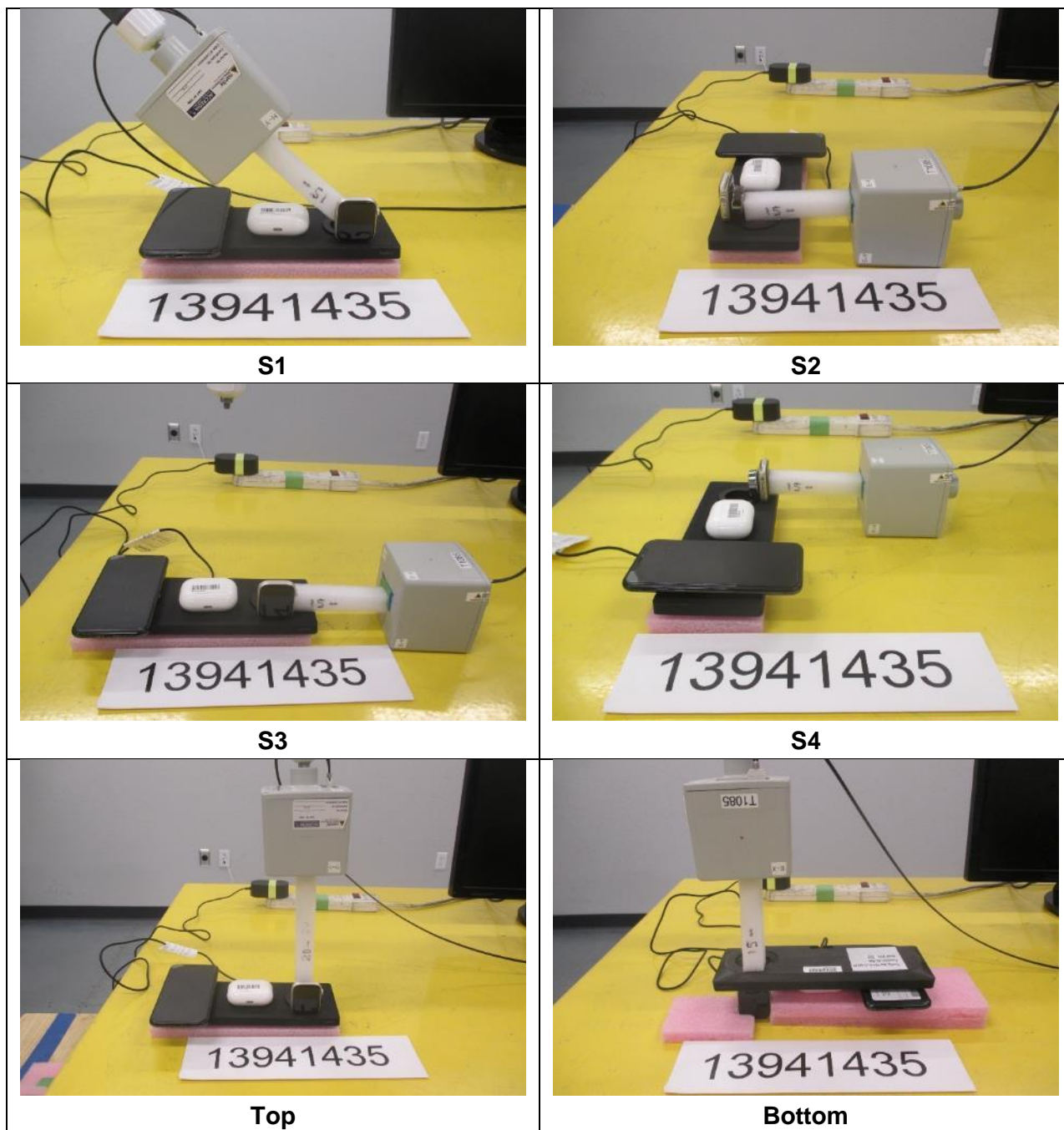
326.5kHz Coil

3.2.11. FCC CONFIGURATION 11: OPERATING WITH iPhone + AirPods Charging Case + Apple Watch

127.7kHz Coil

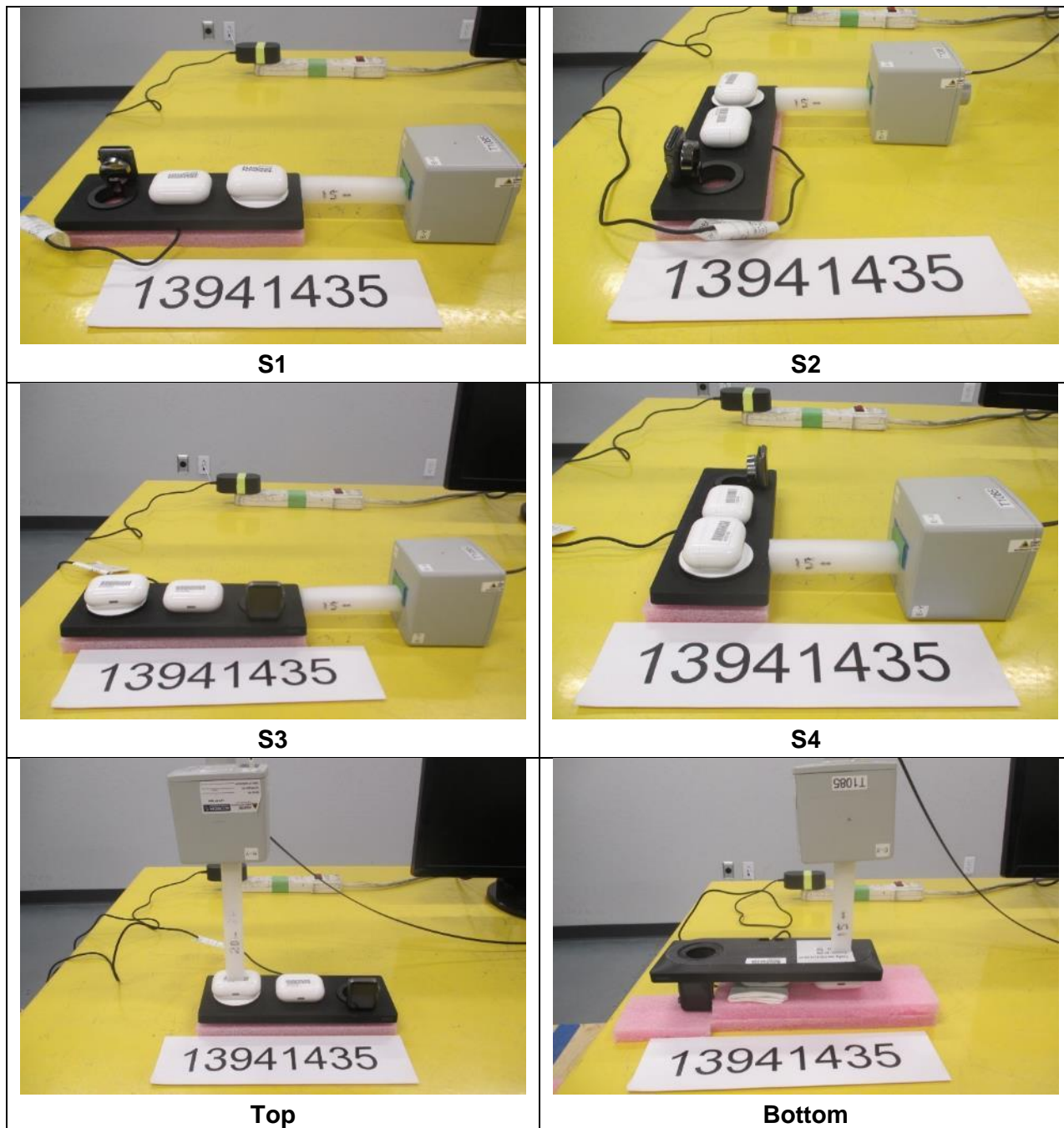


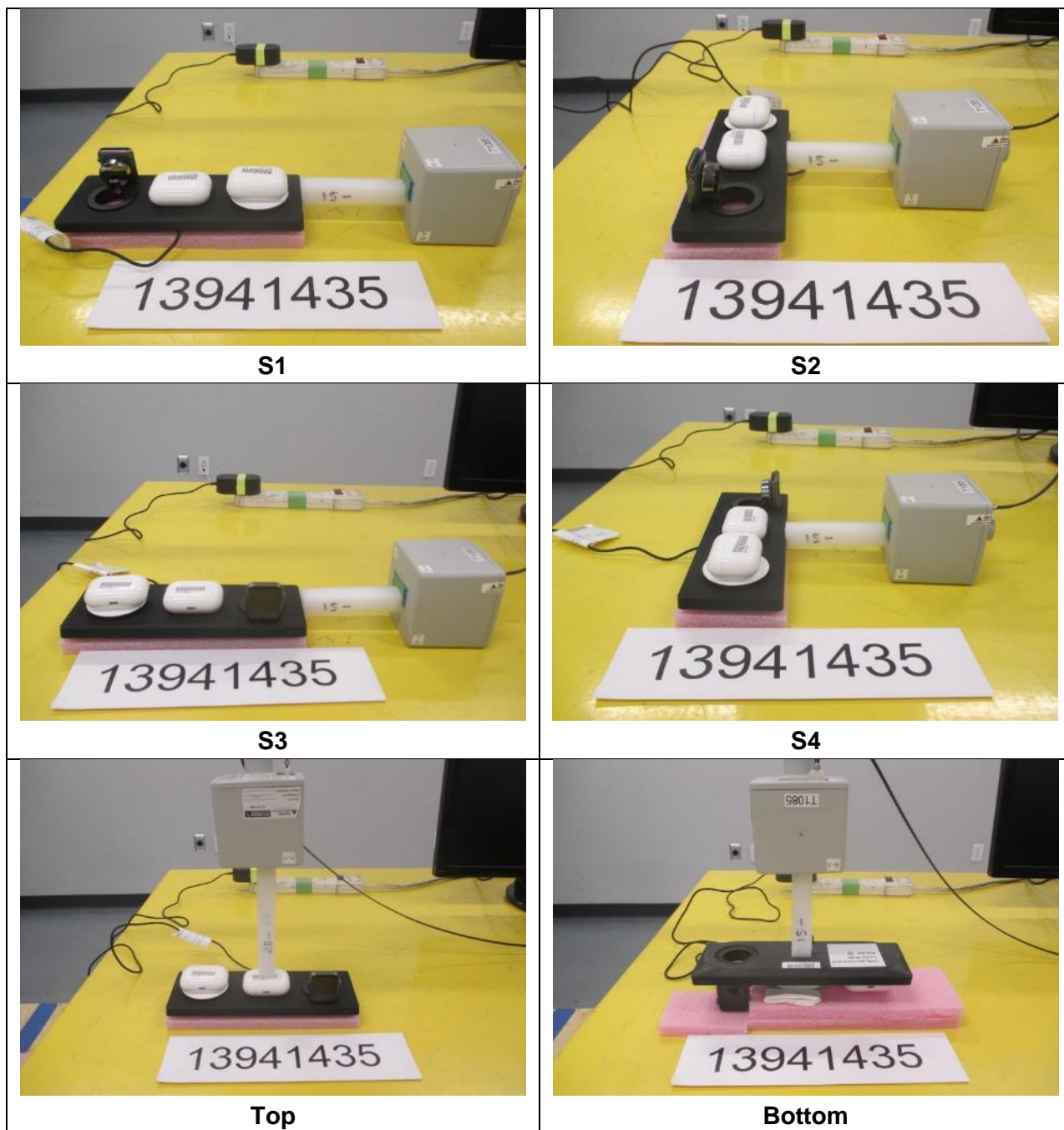
110.5 -148.5kHz Coil

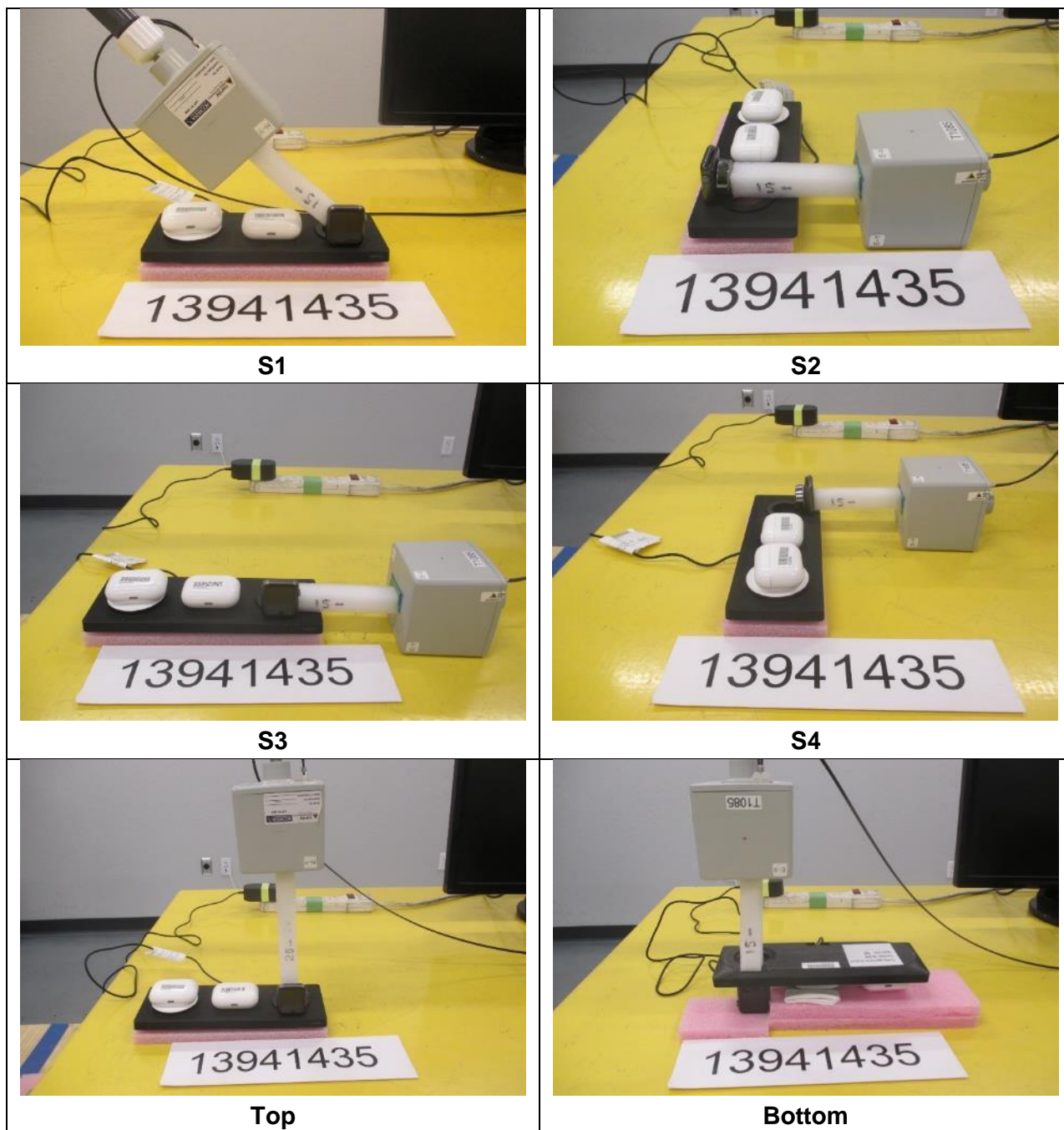
1.778MHz Coil

3.2.12. FCC CONFIGURATION 12: OPERATING WITH AirPods Charging + AirPods Charging Case + Apple Watch

127.7kHz Coil



110.5 -148.5kHz Coil

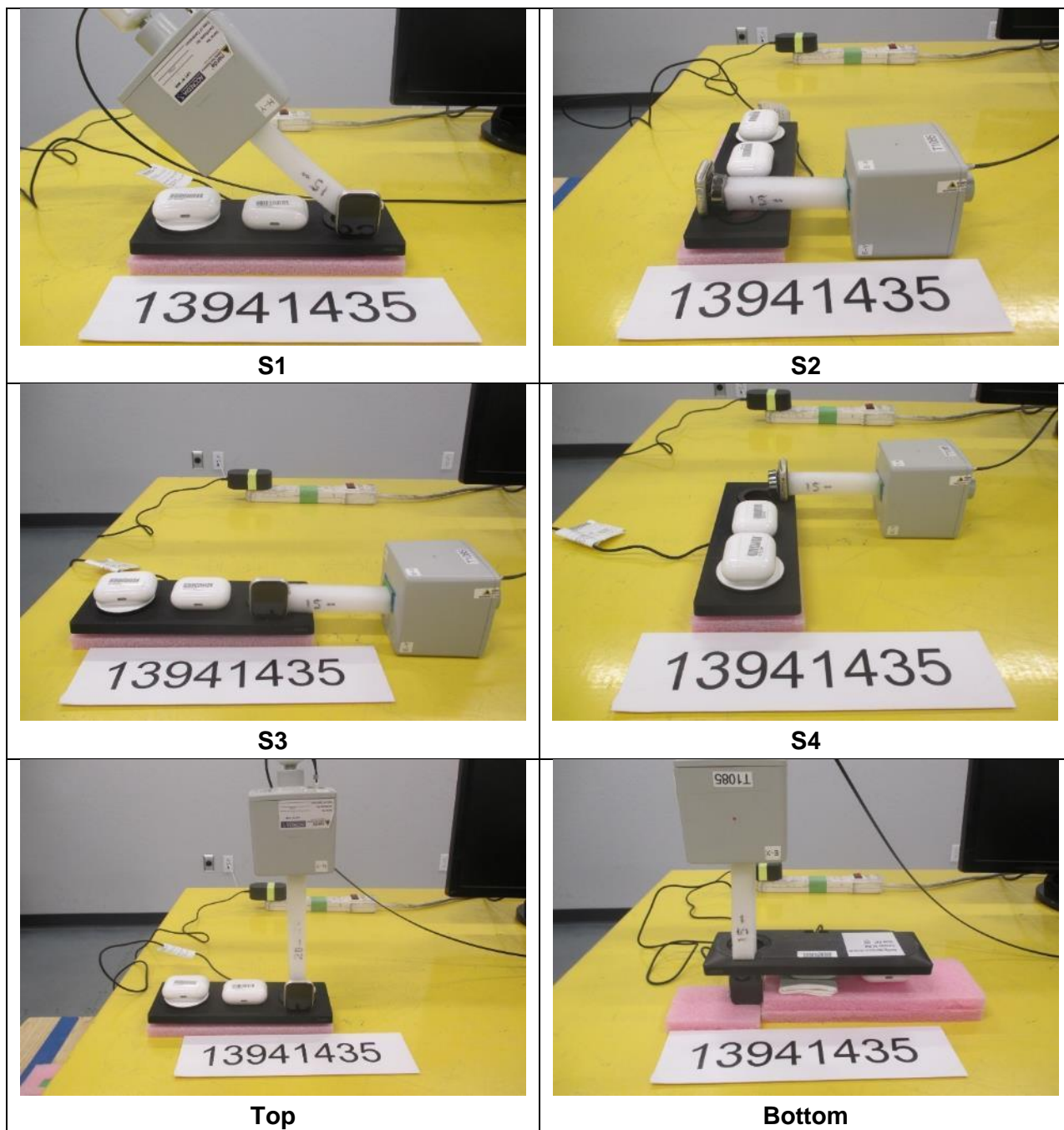
326.5kHz Coil

3.2.13. FCC CONFIGURATION 13: OPERATING WITH AirPods Charging + AirPods Charging Case + Apple Watch

127.7kHz Coil



110.5 -148.5kHz Coil

1.778MHz Coil**END OF REPORT**