

Report Number: 14890696-EP1V1

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1. SCOPE

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

Reports
14890696-E1 FCC WPT Report
14890696-E2 FCC WPT RF Exposure Report
14890696-E5 FCC/IC BLE Report

2. WPT TECHNOLOGY (14890696-E1 Report)

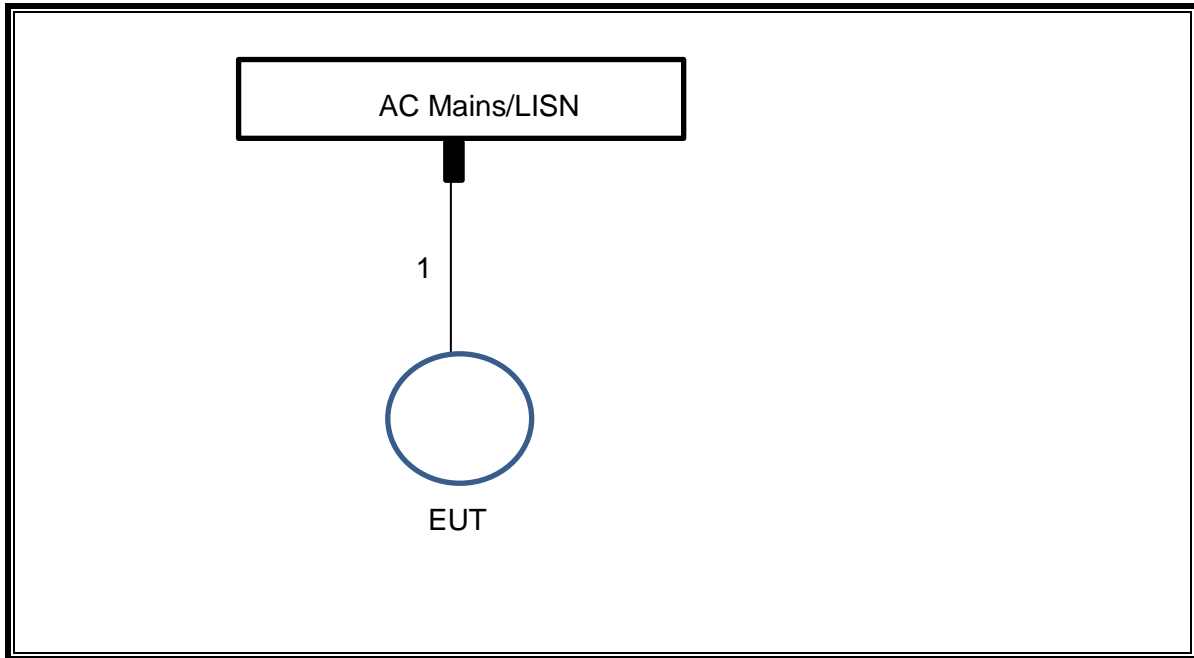
2.1. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
AC/DC Adapter	Belkin	S1C030A	S1#3-25	DoC		
iPhone 12 (Navy Blue)	Apple	A2342	F2LFW43K0D42	BCG-E3548A		
iPhone 12 (Navy Blue)	Apple	A2342	F2MFLFJA0D42	BCG-E3548A		
iPhone 12 (Navy Blue)	Apple	A2342	F2MFLHTF0D42	BCG-E3548A		
Legacy iPhone 11 Pro (grey)	Apple	A2161	FK1ZMDRGN70C	BCG-E3306A		
AirPods Pro Case (1)	Apple	A2700	PCWQTHFWXC	BCG-A2700		
AirPods Pro Case (2)	Apple	A2700	MGH2RNXRWX	BCG-A2700		
AirPods Pro Case (3)	Apple	A2700	F2LKXY3CW9	BCG-A2700		
I/O CABLES (RADIATED EMISSIONS/ AC LINE CONDUCTED)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	USB Type C	shielded	1.5	-

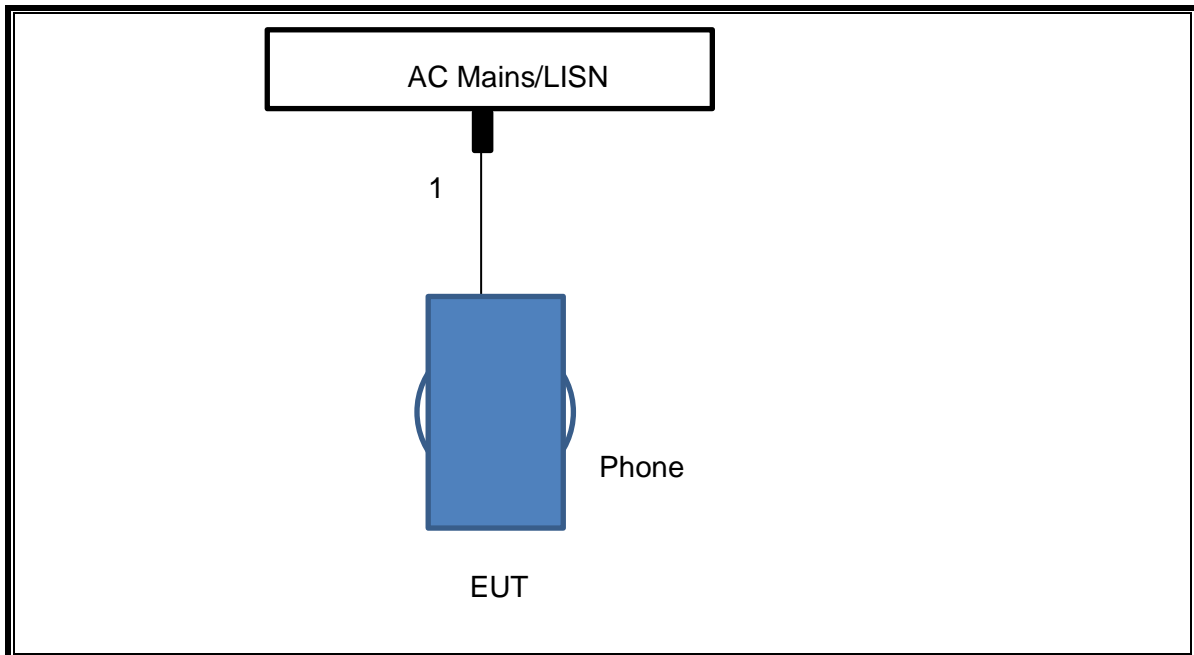
Note: Several units of support equipment (clients/receiving loads) were used during testing to help expedite testing due to battery levels.

TEST SETUP BLOCK DIAGRAM

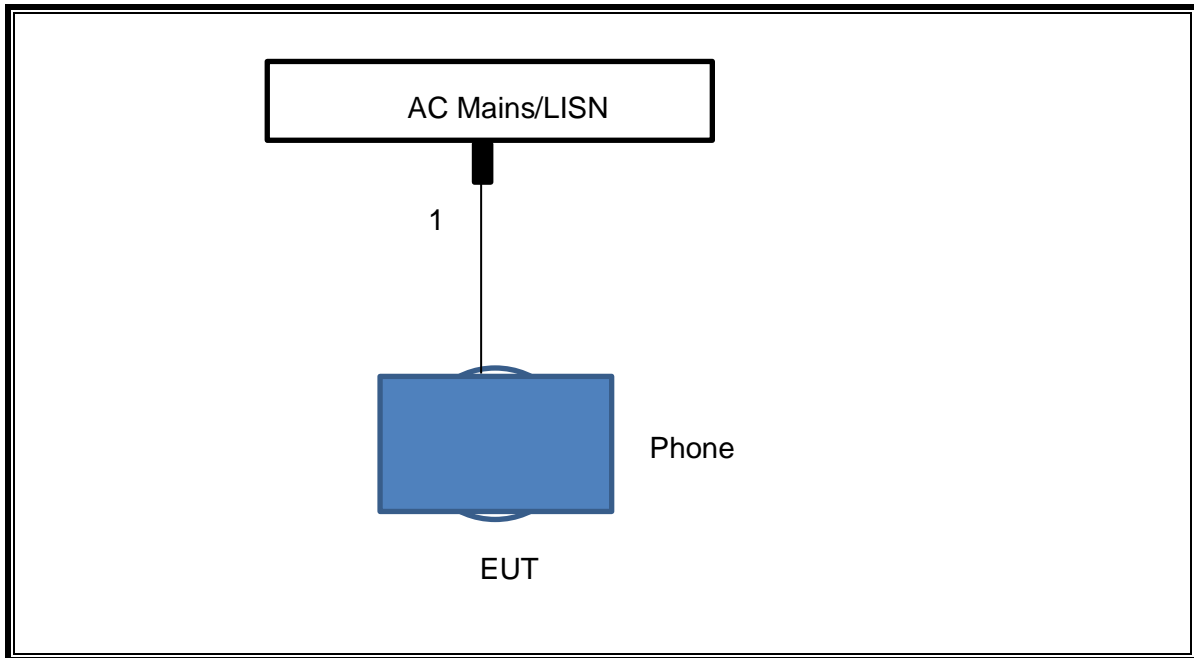
CONFIGURATION 1: WPT ON STANDBY



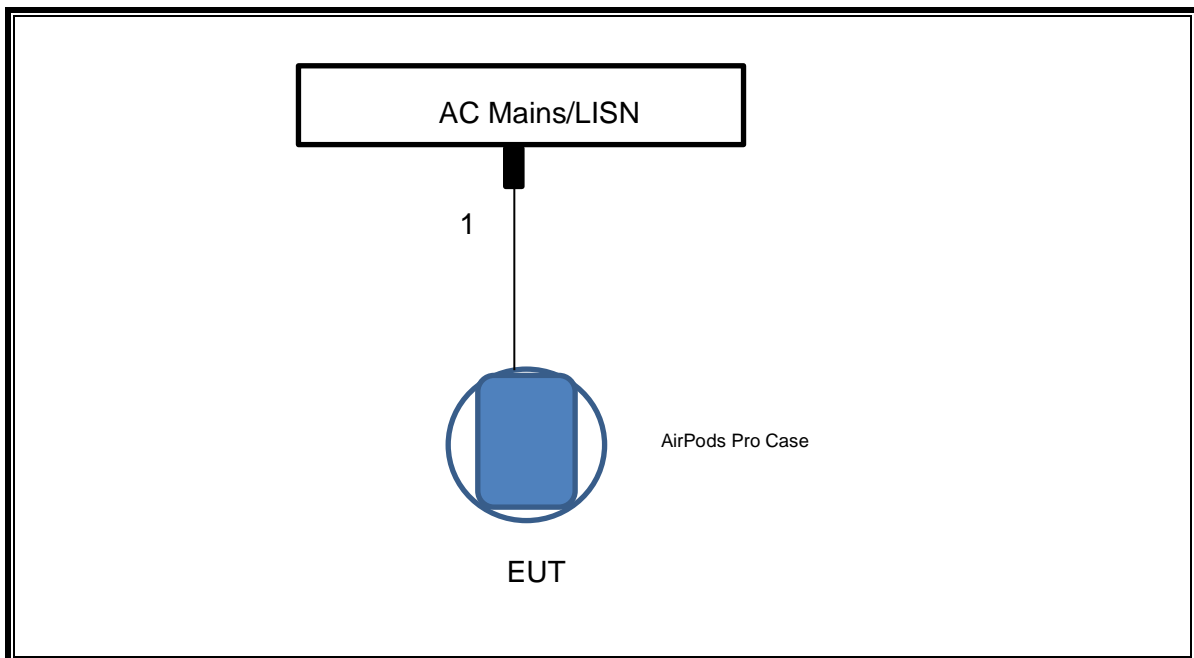
CONFIGURATION 2: OPERATING MODE WITH iPhone (360kHz)



CONFIGURATION 3: OPERATING MODE WITH iPhone (127.7kHz)

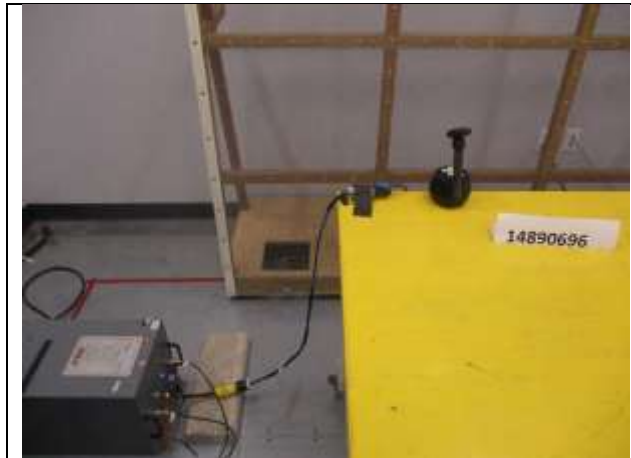


CONFIGURATION 4: OPERATING MODE WITH AirPods Pro Case (127.7kHz)



2.2. AC LINE CONDUCTED SETUP

2.2.1. CONFIGURATON 1: WPT ON STANDBY

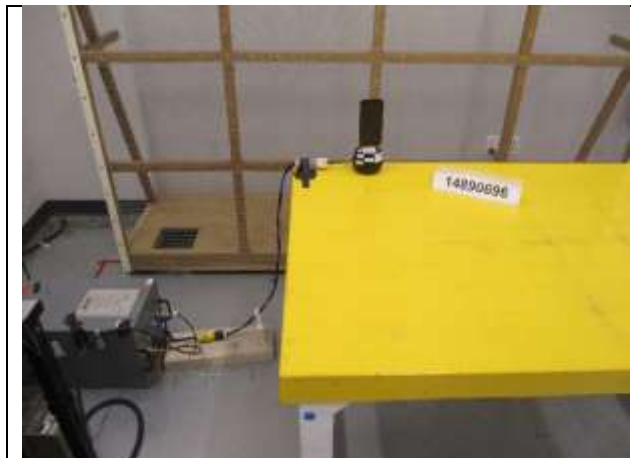


AC LINE CONDUCTED (FRONT)



AC LINE CONDUCTED (BACK)

2.2.2. CONFIGURATON 2: OPERATING MODE WITH iPhone (360kHz)



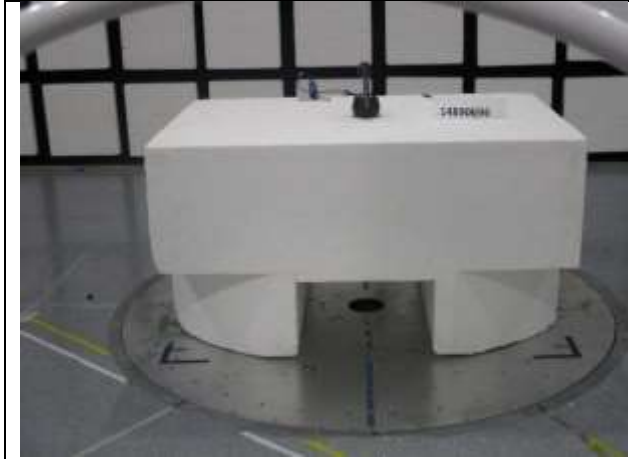
AC LINE CONDUCTED (FRONT)



AC LINE CONDUCTED (BACK)

2.3. WPT RADIATED RF MEASUREMENT SETUP

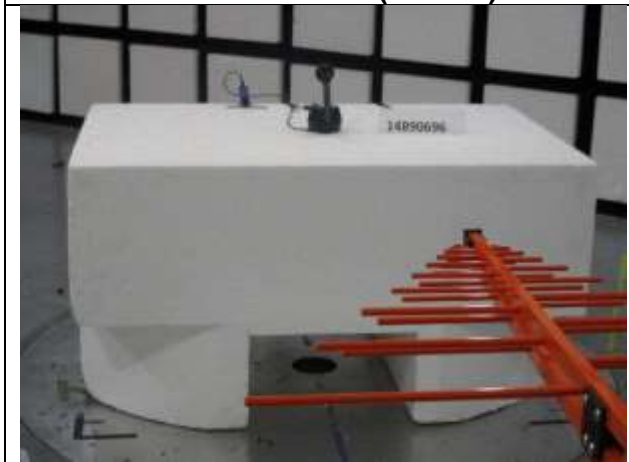
2.3.1. CONFIGURATION 1: WPT ON STANDBY



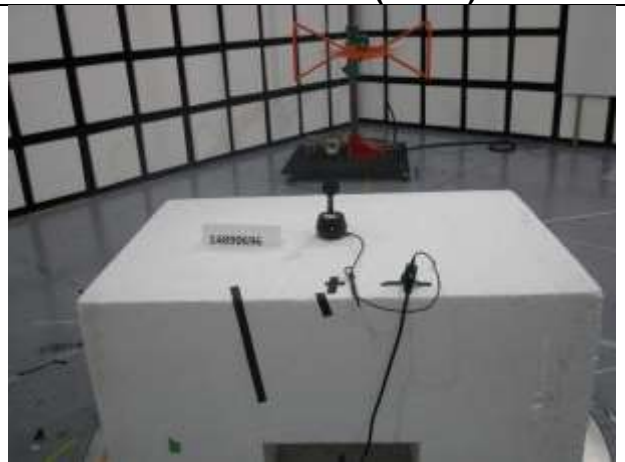
BELOW 30 MHz (FRONT)



BELOW 30 MHz (BACK)

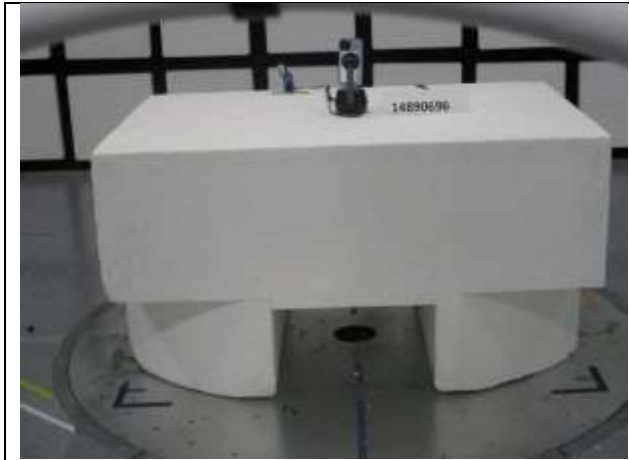


BELOW 1GHz (FRONT)



BELOW 1GHz (BACK)

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



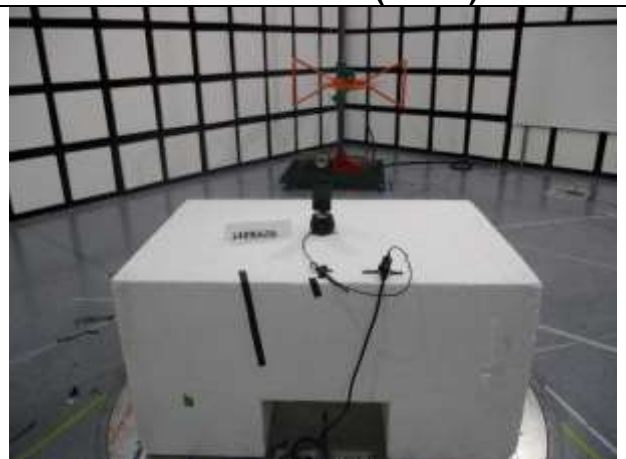
BELOW 30 MHz (FRONT)



BELOW 30 MHz (BACK)



BELOW 1GHz (FRONT)

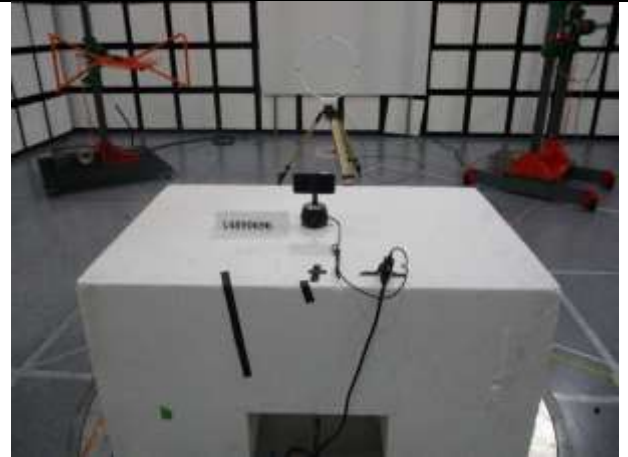


BELOW 1GHz (BACK)

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

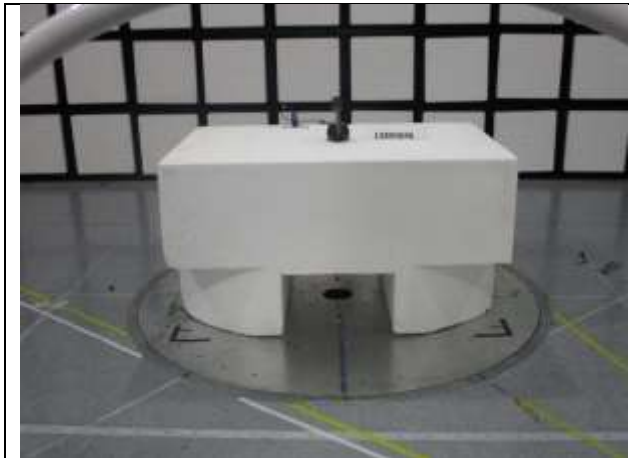


BELOW 30 MHz (FRONT)

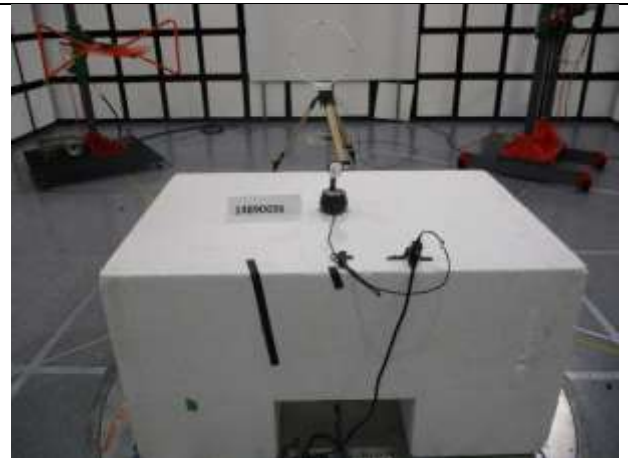


BELOW 30 MHz (BACK)

**2.3.4. CONFIGURATION 4: OPERATING MODE WITH AirPods Pro
Case (127.7kHz)**



BELOW 30 MHz (FRONT)



BELOW 30 MHz (BACK)

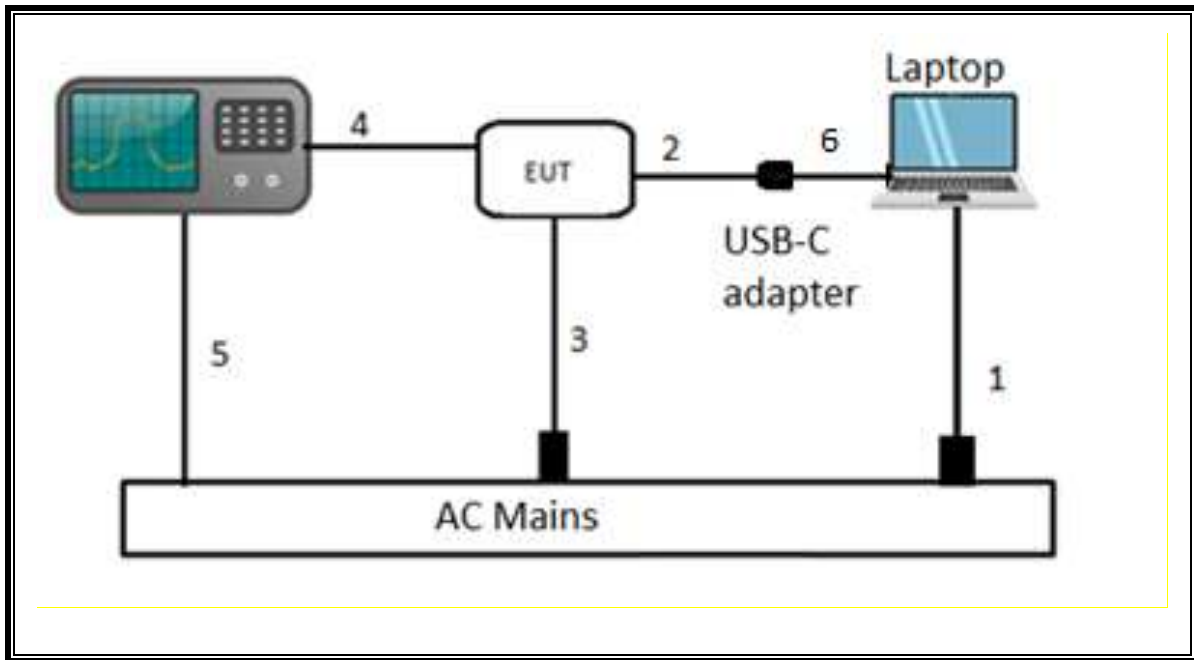
3. BLE TECHNOLOGY (14890696-E5 Report)

3.1. DESCRIPTION OF TEST SETUP

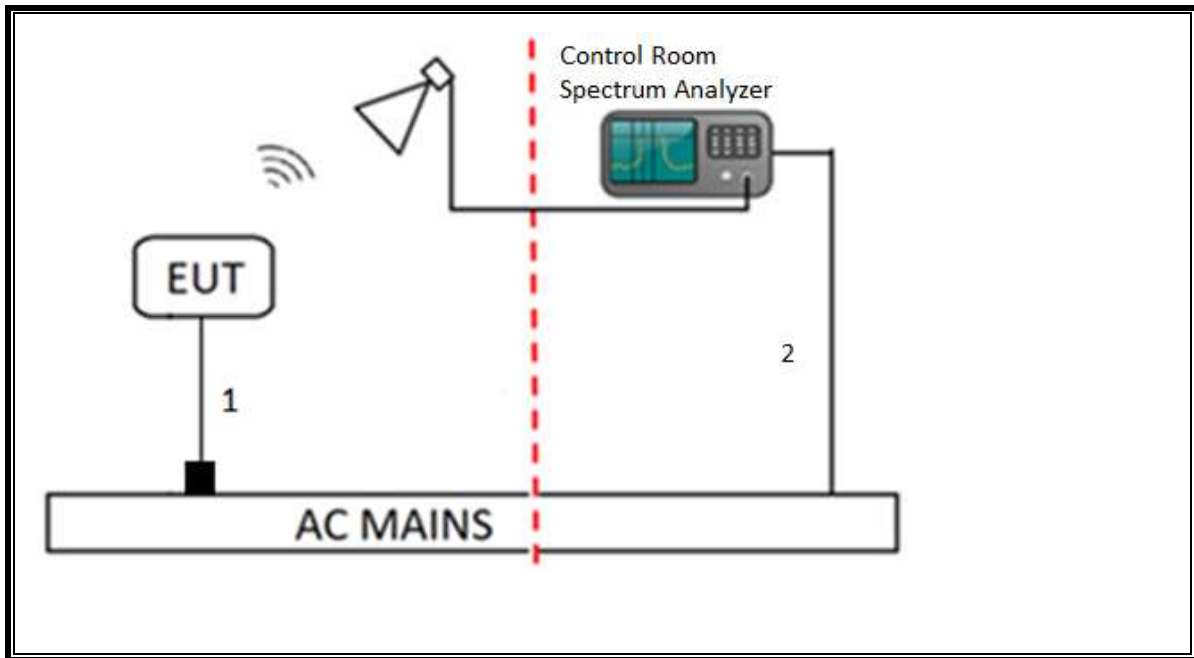
SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
AC/DC Adapter	Belkin	S1C030A	Not available	DoC		
USB-C 6 in 1 multiport adapter	Belkin	AVC008	Not available	DoC		
Support laptop	Apple	A2485	Not available	DoC		
Laptop AC/DC adapter	Apple	A2452	Not available	DoC		
I/O CABLES (CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	2-Prong	Un-shielded	1.5	AC Mains to Laptop
2	USB	1	USB A to USB C	Shielded	0.1	EUT to adapter
3	DC	1	USB Type C	Shielded	1.5	EUT to AC/DC Adapter
4	SMA	1	SMA	Coaxial	0.1	EUT to Spectrum Analyzer
5	AC	1	3-Prong	Un-shielded	1.5	AC Mains to Spectrum Analyzer
6	USB	1	USB Type C	Shielded	0.15	Adapter to Laptop
I/O CABLES (RADIATED TEST/AC POWER LINE EMISSIONS)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	USB Type C	Shielded	1.5	EUT to AC Mains
2	AC	1	3-Prong	Un-shielded	1.5	AC Mains to Spectrum Analyzer

TEST SETUP BLOCK DIAGRAM

CONDUCTED TEST



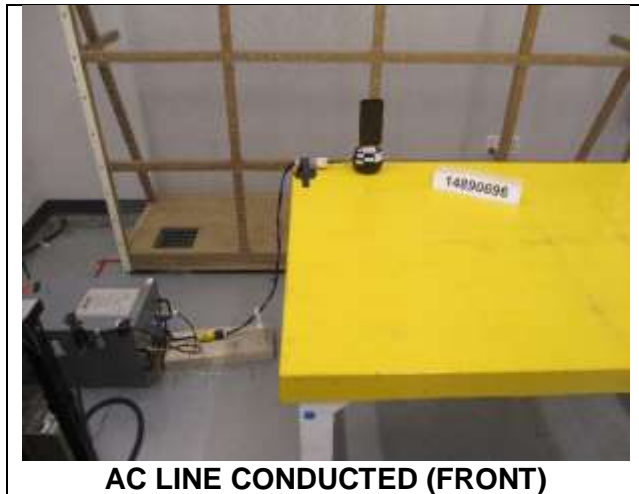
RADIATED EMISSIONS/AC POWERLINE EMISSIONS



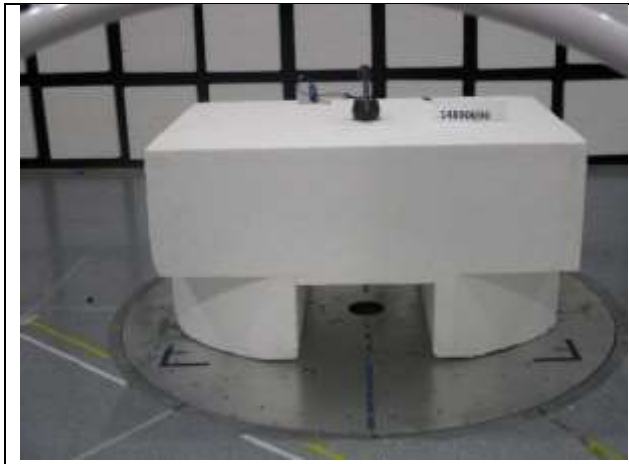
3.2. ANTENNA PORT SETUP



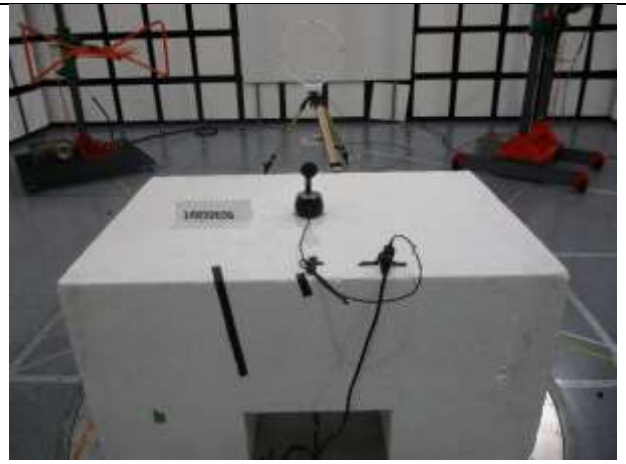
3.3. AC LINE CONDUCTED SETUP



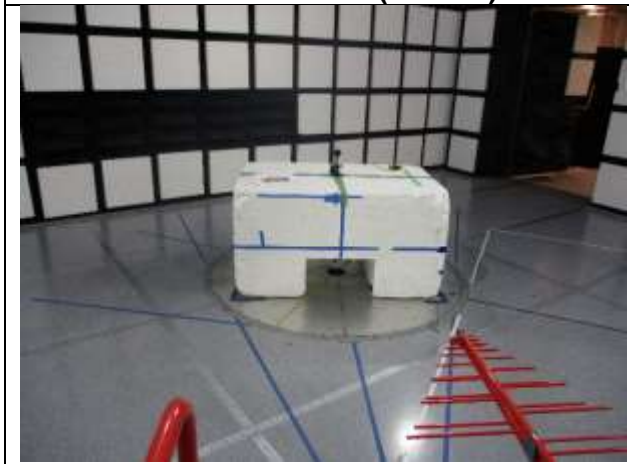
3.4. RADIATED RF MEASUREMENT SETUP



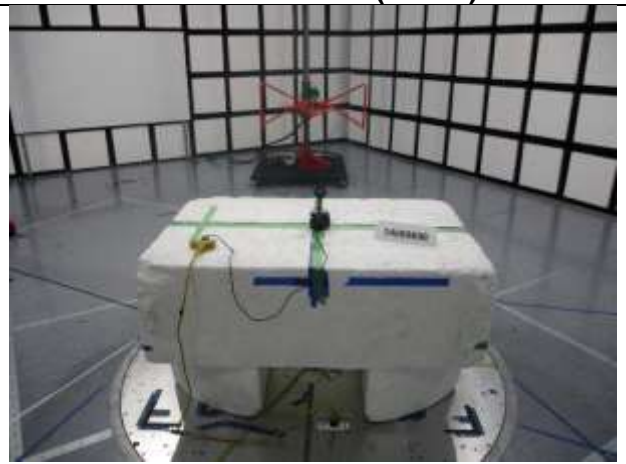
BELOW 30 MHz (FRONT)



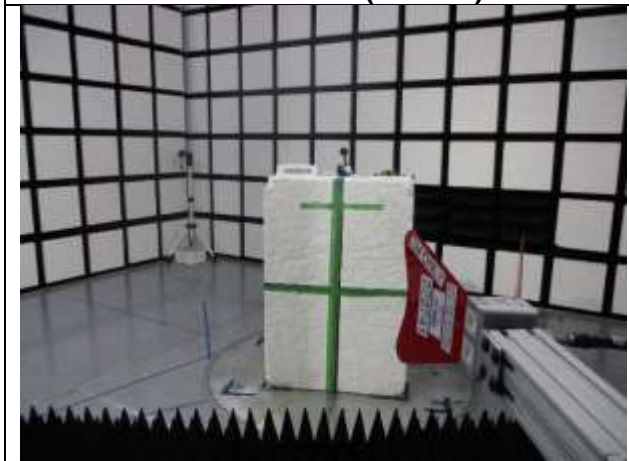
BELOW 30 MHz (BACK)



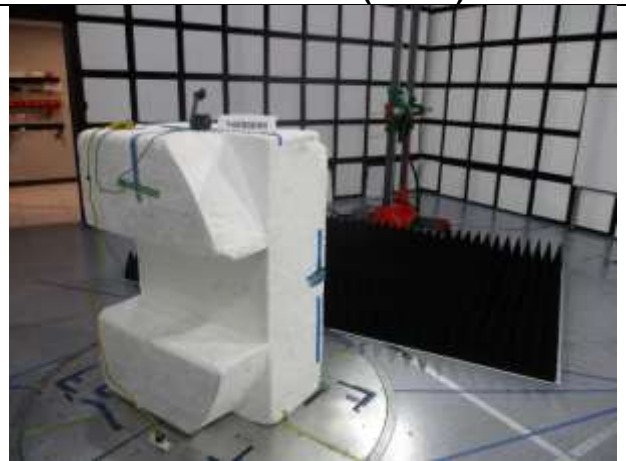
BELOW 1GHz (FRONT)



BELOW 1GHz (BACK)



ABOVE 1GHz (FRONT)



ABOVE 1GHz (BACK)

4. RF EXPOSURE (14890696-E2 Report)

4.1. DESCRIPTION OF TEST SETUP

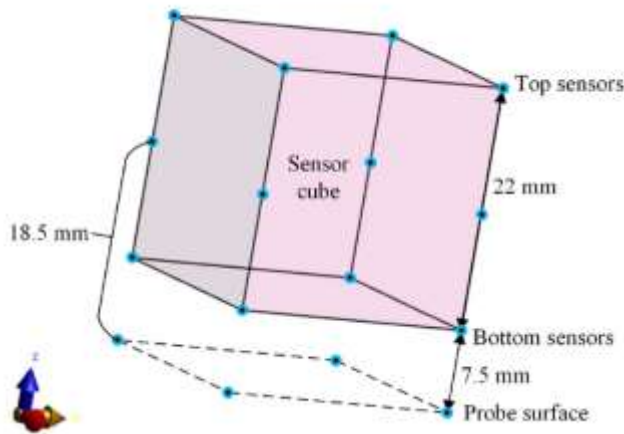
SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
AC/DC Adapter	Belkin	S1C030A	S1#3-24	DoC		
iPhone 12 (Golden color)	Apple	A2342	F2LFL6760D41	BCG-E3548A		
iPhone 12 (Golden color)	Apple	A2342	F2LFKNTW0D41	BCG-E3548A		
iPhone 12 (Golden color)	Apple	A2342	F2LFKP3R0D41	BCG-E3548A		
Legacy iPhone 11 (black)	Apple	A2111	C6KZHK1XN72J	BCG-E3309A		
Legacy iPhone Xs (black)	Apple	A2101	G6TX9247KPH1	BCG-E3234A		
Legacy iPhone X (black)	Apple	A1901	G6TV37H8JCLH	BCG-E3175A		
AirPods Pro Case (4)	Apple	A2700	YW326V6YJ3	BCG-A2700		
AirPods Pro Case (5)	Apple	A2700	N6001WGX35	BCG-A2700		
AirPods Pro Case (6)	Apple	A2700	LP6TYPWMM7	BCG-A2700		
I/O CABLES (RADIATED EMISSIONS)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	USB Type C	shielded	1.5	-

Note: All those support equipment (clients/receiving loads) were used during testing to help expedite testing due to battery levels.

MEASUREMENT SETUP

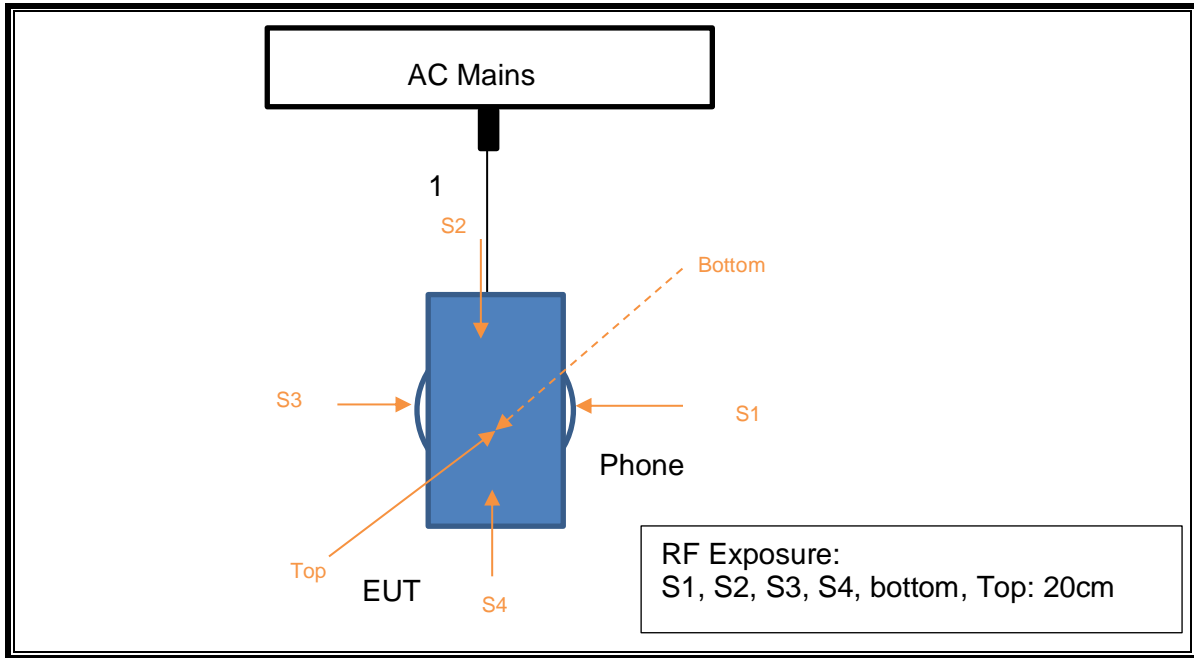
The measurements were taken using a probe placed 20 cm (as worse case) surrounding the device for all configurations on each individual coil per KDB 680106 D01. 1.85cm is compensated when measuring the 15cm or 20cm distance during testing.

E- field and H-field are evaluated at the center of the probe (which is 18.5mm above the surface of its tip).

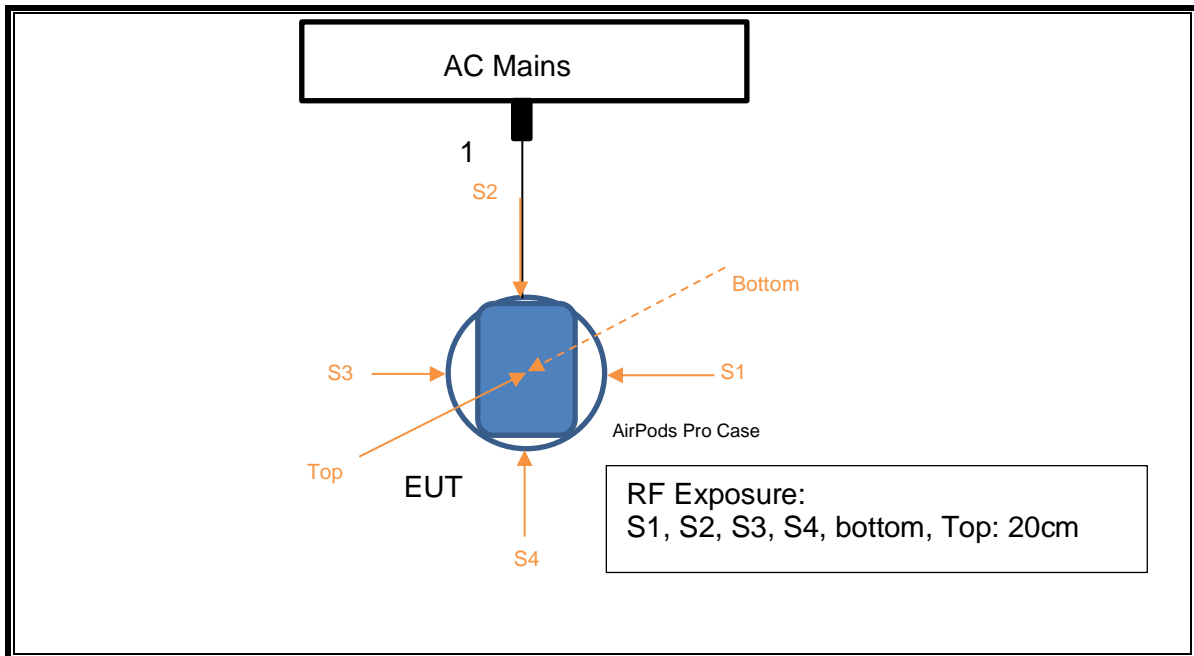


TEST SETUP BLOCK DIAGRAM

CONFIGURATION 2/3: OPERATING MODE WITH iPhone

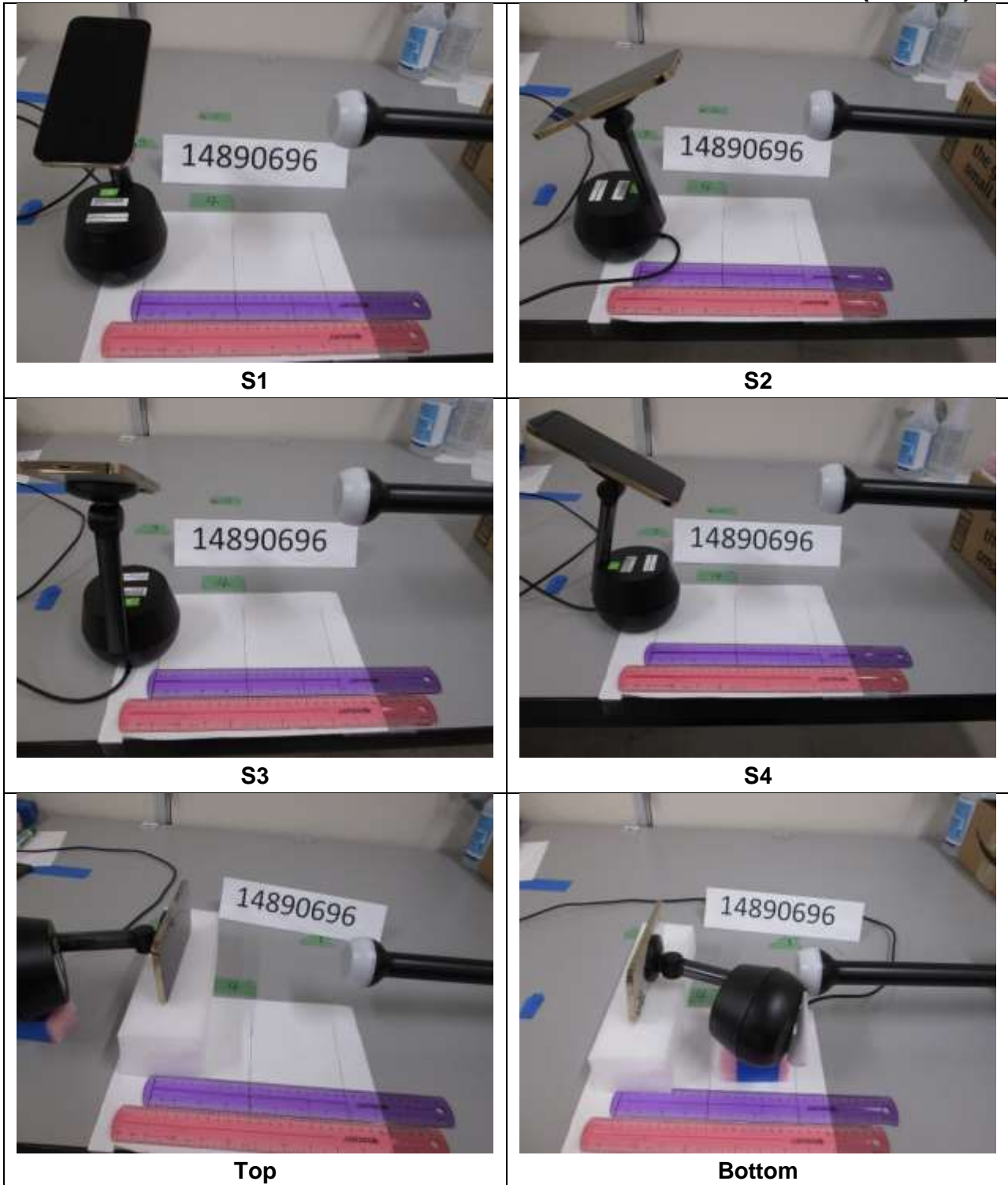


CONFIGURATION 4: OPERATING MODE WITH AirPods Pro Case (127.7kHz)

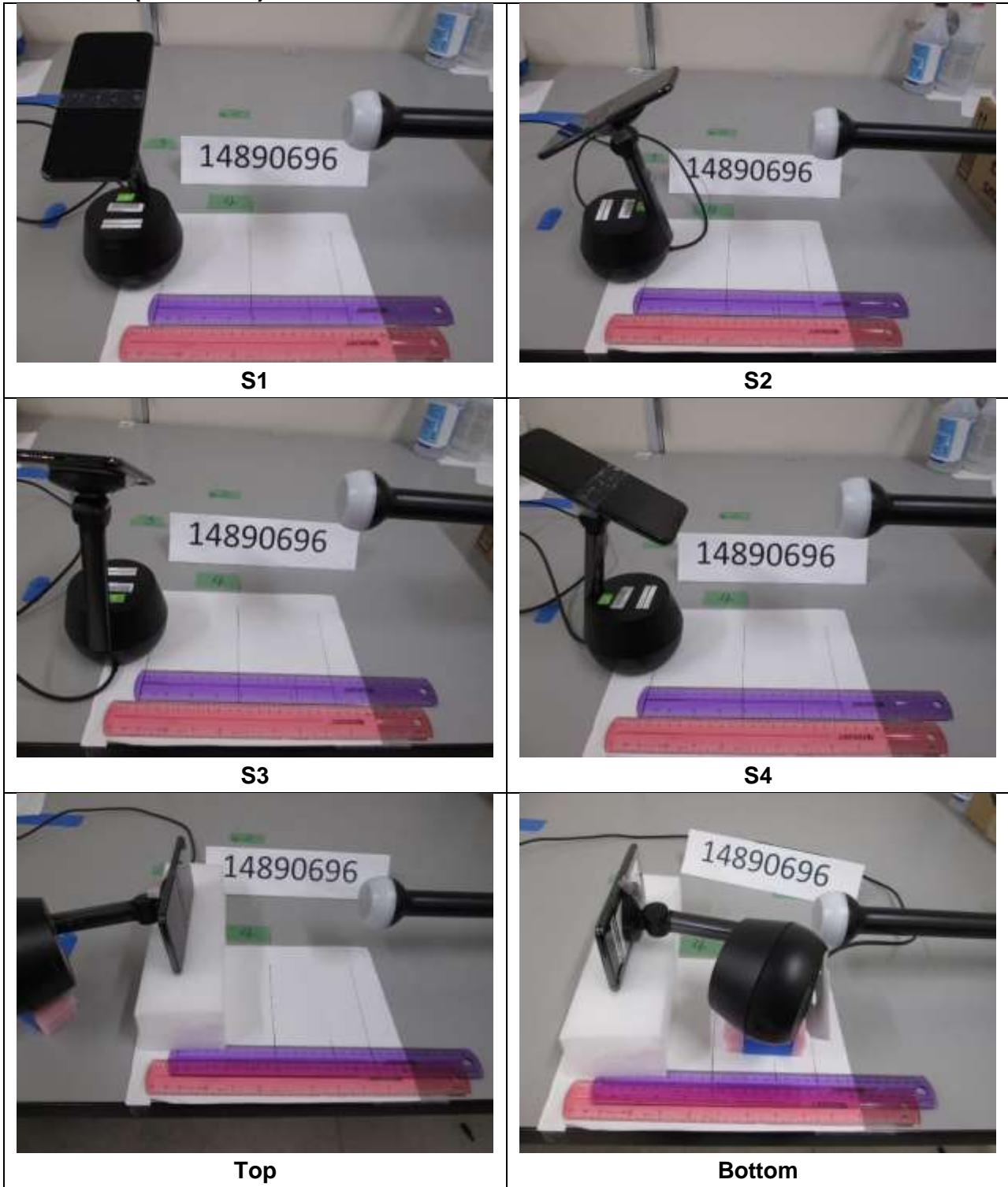


4.2. RF EXPOSURE SETUP PHOTO

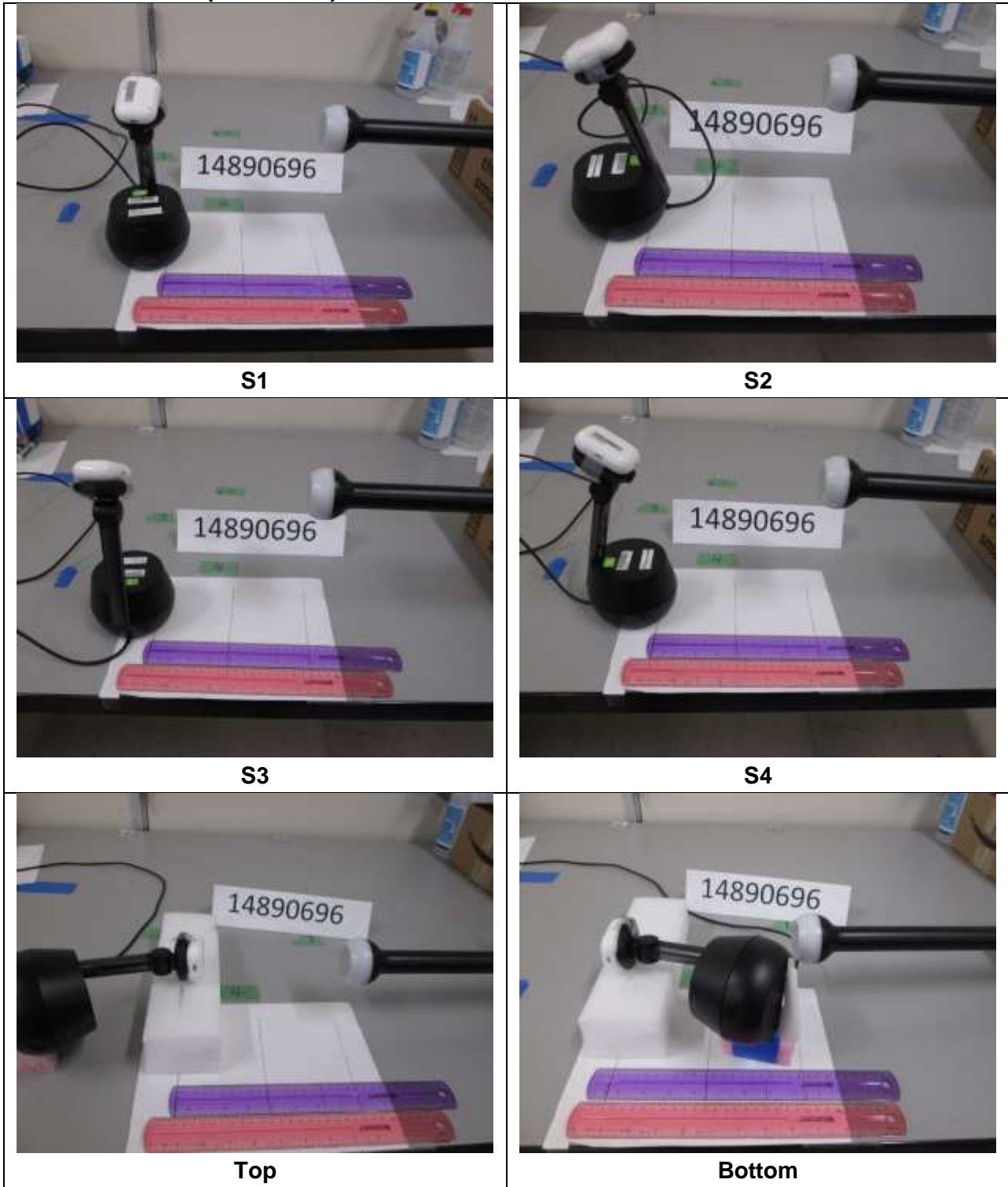
4.2.1. CONFIGURATION 2: OPERATING MODE WITH iPhone (360kHz)



4.2.2. CONFIGURATION 3: OPERATING MODE WITH iPhone (127.7kHz)



4.2.3. CONFIGURATION 4: OPERATING MODE WITH AirPods Pro Case (127.7kHz)



END OF REPORT