Report Number: 15107843-EP1V3

TABLE OF CONTENTS

1. SCOPE 2
2. WPT/NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN TECHNOLOGIES 3
2.1. DESCRIPTION OF TEST SETUP 3
2.1.1. WPT TEST SETUP BLOCK DIAGRAM 4
2.1.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN TEST SETUP BLOCK DIAGRAM 5
2.2. ANTENNA PORT SETUP 7
2.2.1. RF Antenna Port test 7
2.2.2. 6G WLAN 987594 D02 U-NII 6 GHz EMC Measurement (Section K and L) 7
2.2.3. WWAN 2G/3G/4G/5G 8
2.3. AC LINE CONDUCTED SETUP 9
2.3.1. WPT 9
2.3.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN 9
2.4. TEMPERATURE CHAMBER SETUP (NFC) 10
2.5. RADIATED RF MEASUREMENT SETUP 11
2.5.1. WPT 11
2.5.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN 12
2.5.3. WWAN 2G/3G/4G/5G/NTN 15
3. CBRS 18
4. DYNAMIC FREQUENCY SELECTION MEASUREMENT SETUP 19
5. CONTENTION PROTOCOL MEASUREMENT SETUP 22

1. SCOPE

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

Reports
15107843-E1V1 FCC Report WWAN (2G3G)
15107843-E2V1 FCC Report WWAN (4G5G)
15107843-E3V1 FCC Report Carrier Aggregation
15107843-E4V1 FCC Report NTN Bands
15107843-E5V1 FCC B48 CBRS Report
15107843-E6V1 FCC Report BT_BLE Channel Sounding Mode2_DSS
15107843-E7V1 FCC Report BT_BLE_Channel Sounding_Mode0_DTS
15107843-E8V1 FCC Report 802.15.4_Thread_DTS
15107843-E9V1 FCC Report 2.4G_DTS WLAN
15107843-E10V1 FCC Report UNII 5G WLAN
15107843-E11V1 FCC Report UNII WLAN DFS
15107843-E12V1 FCC Report UNII WLAN 6GHz
15107843-E13V1 FCC Report UNII WLAN CBP
15107843-E14V1 FCC Report NFC
15107843-E15V1 FCC Report WPT

2. WPT/NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN TECHNOLOGIES

2.1. DESCRIPTION OF TEST SETUP

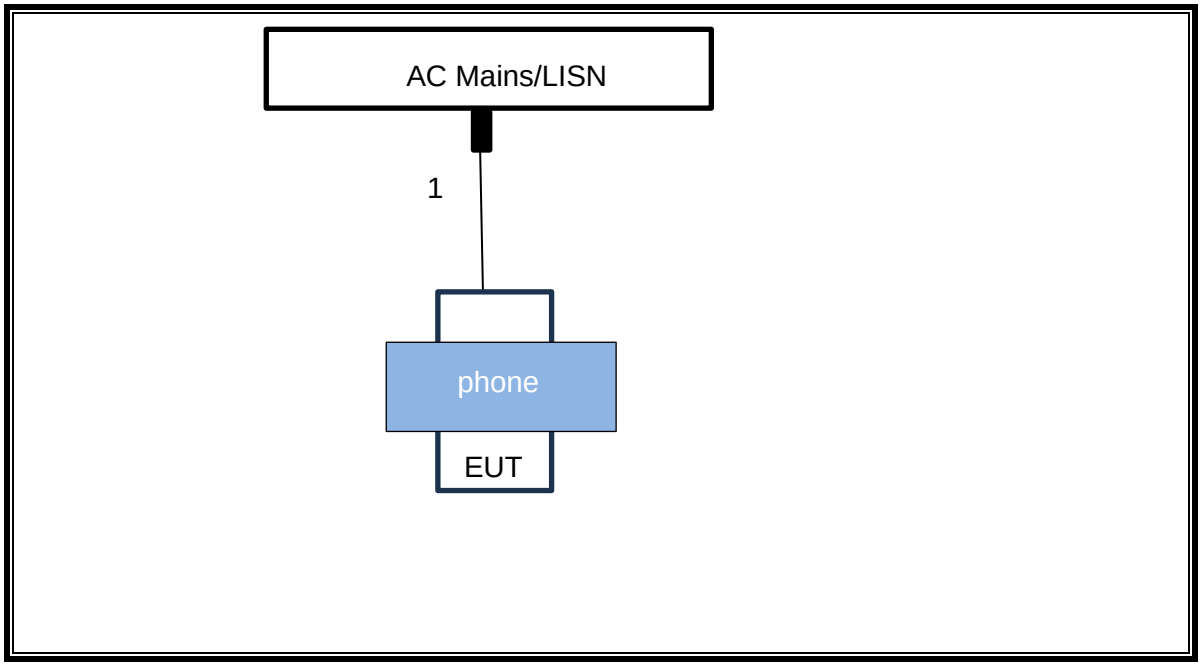
SUPPORT TEST EQUIPMENT				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID/ DoC**
Laptop	Dell	Latitude 5310	00330-80000-00000-AA366	DoC
AC/DC Adapter	Dell	LA65NM191	1A5-0653-A02	DoC
AC/DC Adapter	Google	45 W	1HV003B90100315DE	DoC
Phone (WPT supporting client)	Google	G2YBB	41061FDAQ0003E	A4RG2YBB

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	
2	DC	1	DC	Un-shielded	1.5	
3	USB	1	USB C to USB C	Un-shielded	1	
4	SMA	1	SMA	Un-shielded	0.1	
5	AC	1	3-Prong	Un-shielded	1.5	
6	USB-C	1	USB-C	Shielded	1	

I/O CABLES (RADIATED TEST/AC POWER LINE EMISSIONS)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	USB-C	1	USB-C	Shielded	1	
2	AC	1	3-Prong	Un-shielded	1.5	

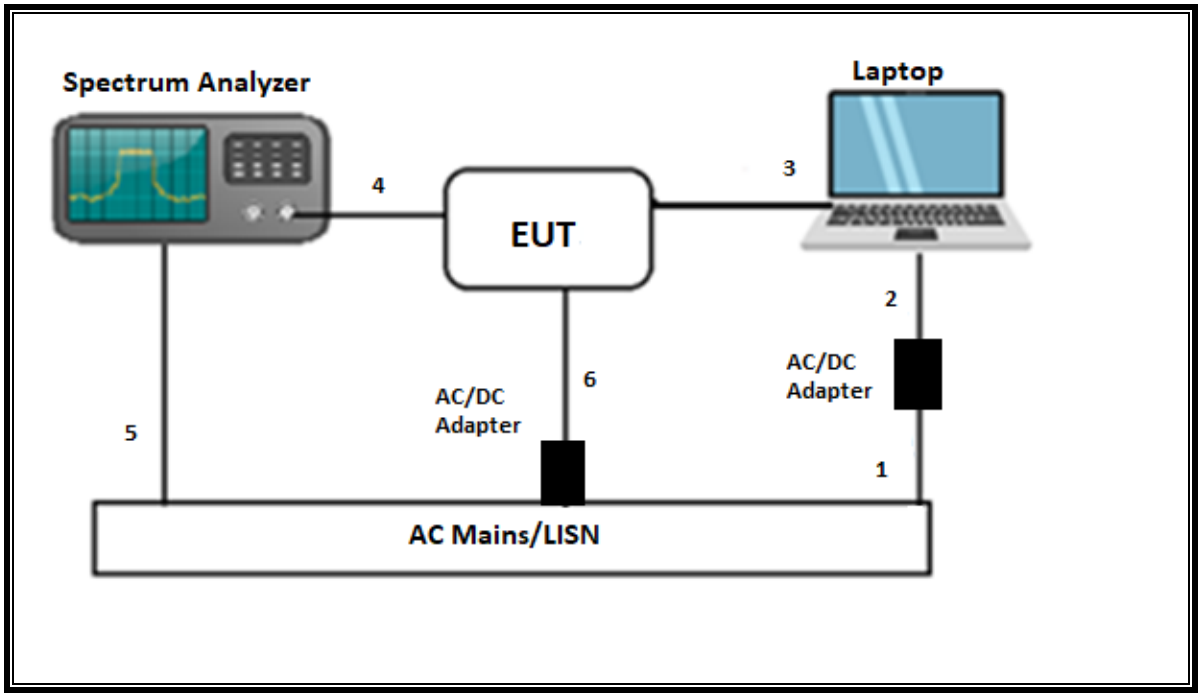
2.1.1. WPT TEST SETUP BLOCK DIAGRAM

CONFIGURATION 2: OPERATING MODE (RADIATED EMISSIONS/AC POWERLINE EMISSIONS)

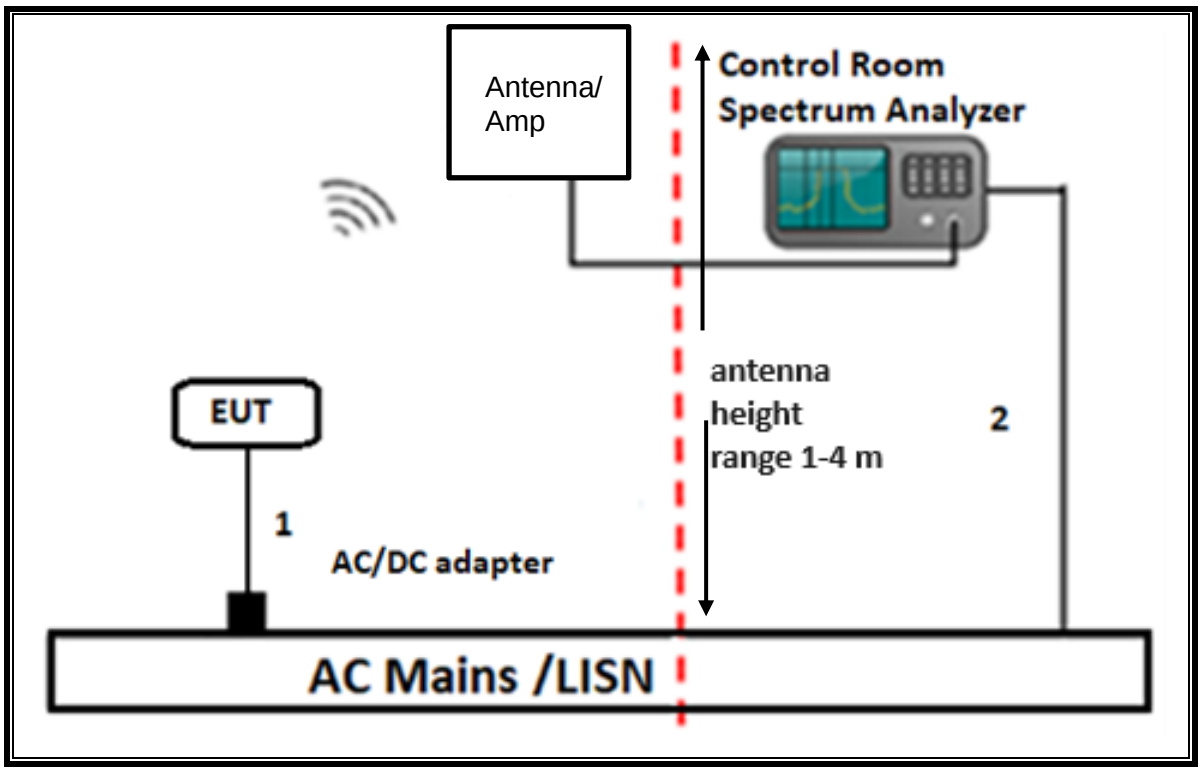


2.1.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN TEST SETUP BLOCK DIAGRAM

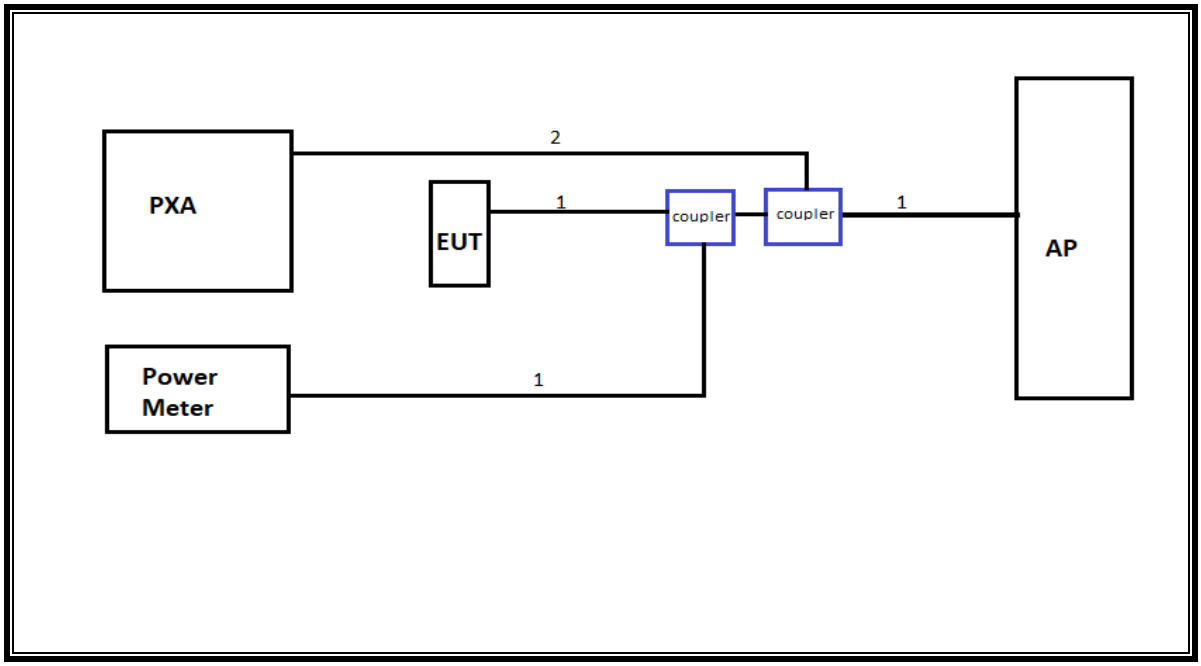
CONDUCTED TEST



RADIATED EMISSIONS/AC POWERLINE EMISSIONS



6G WLAN 987594 D02 U-NII 6 GHz EMC Measurement (Section K and L)



2.2. ANTENNA PORT SETUP

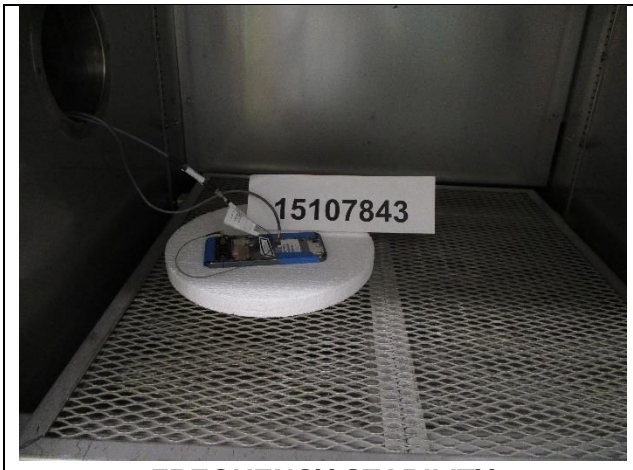
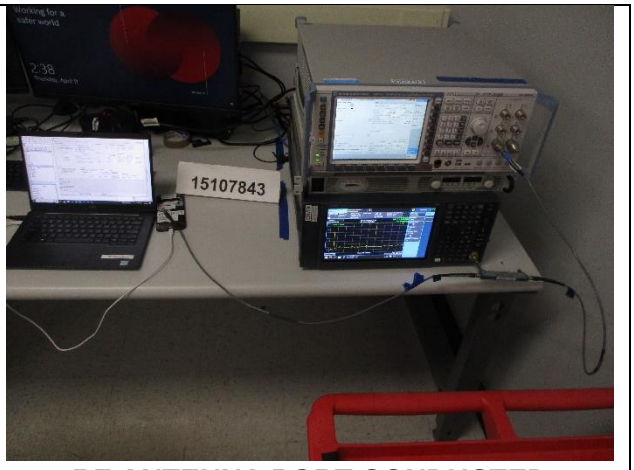
2.2.1. RF Antenna Port test

RF ANTENNA PORT CONDUCTED

2.2.2. 6G WLAN 987594 D02 U-NII 6 GHz EMC Measurement (Section K and L)

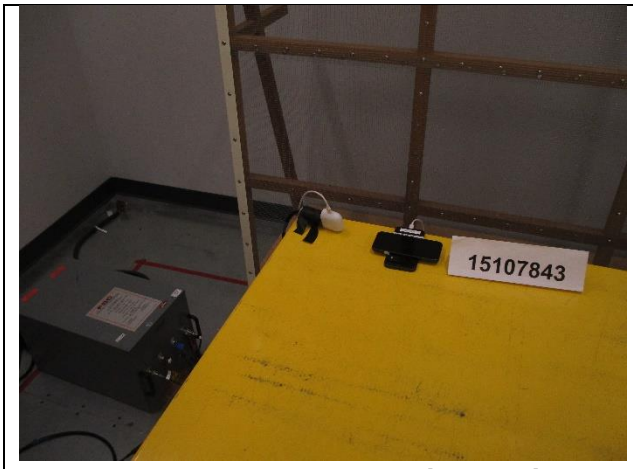
RF ANTENNA PORT CONDUCTED

2.2.3. WWAN 2G/3G/4G/5G

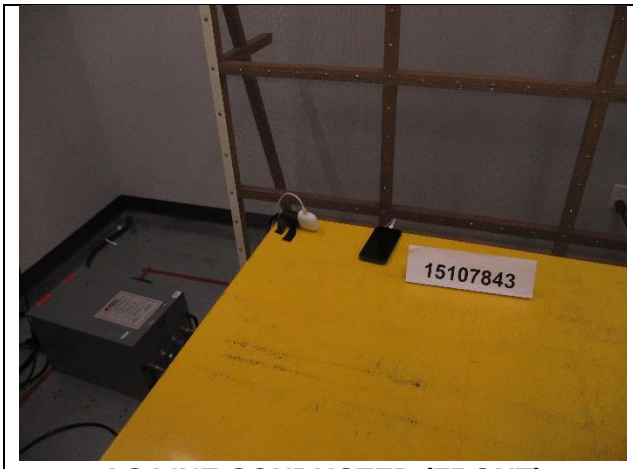
	
FREQUENCY STABILITY	**RF ANTENNA PORT CONDUCTED**

2.3. AC LINE CONDUCTED SETUP

2.3.1. WPT

	
AC LINE CONDUCTED (FRONT)	**AC LINE CONDUCTED (BACK)**

2.3.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN

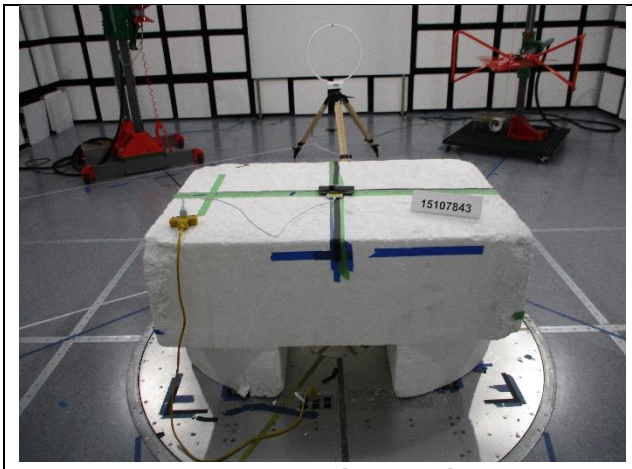
	
AC LINE CONDUCTED (FRONT)	**AC LINE CONDUCTED (BACK)**

2.4. TEMPERATURE CHAMBER SETUP (NFC)

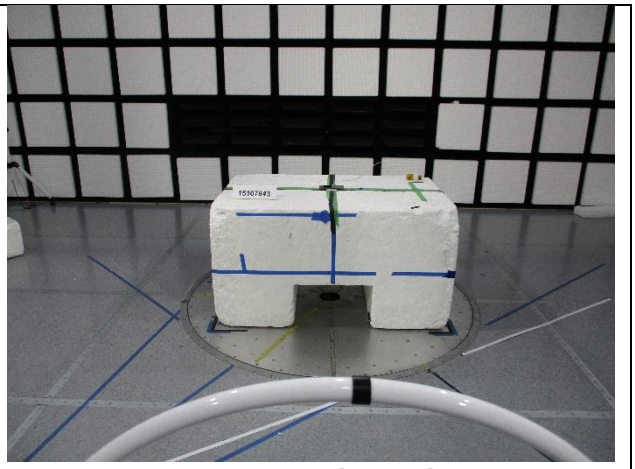
TEMPERATURE CHAMBER

2.5. RADIATED RF MEASUREMENT SETUP

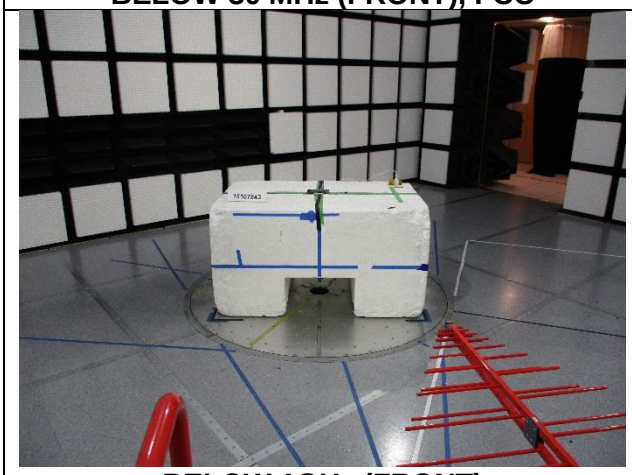
2.5.1. WPT



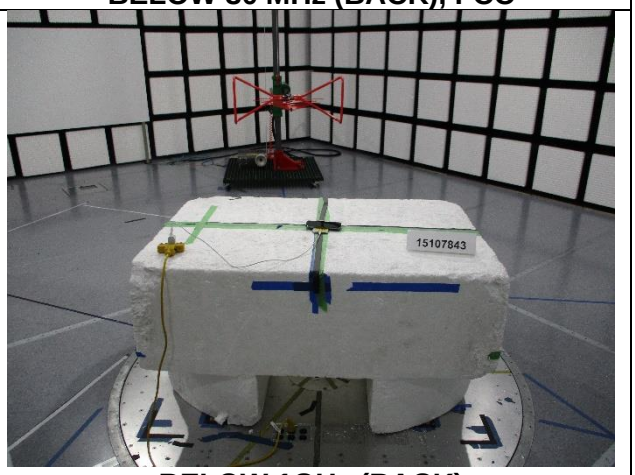
BELOW 30 MHz (FRONT), FCC



BELOW 30 MHz (BACK), FCC



BELOW 1GHz (FRONT)

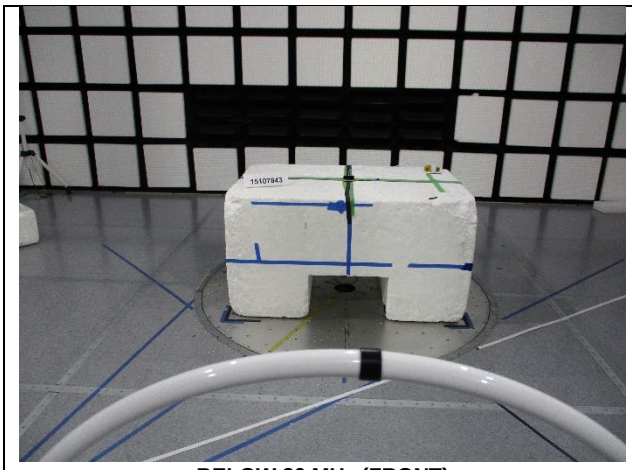


BELOW 1GHz (BACK)

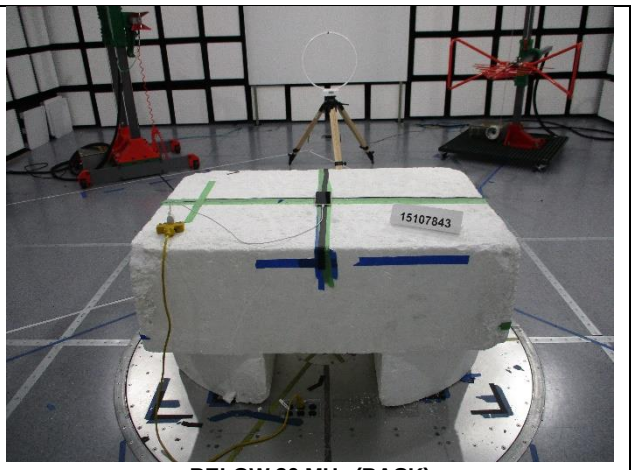
2.5.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN

Refer to each test report for worst case orientation.

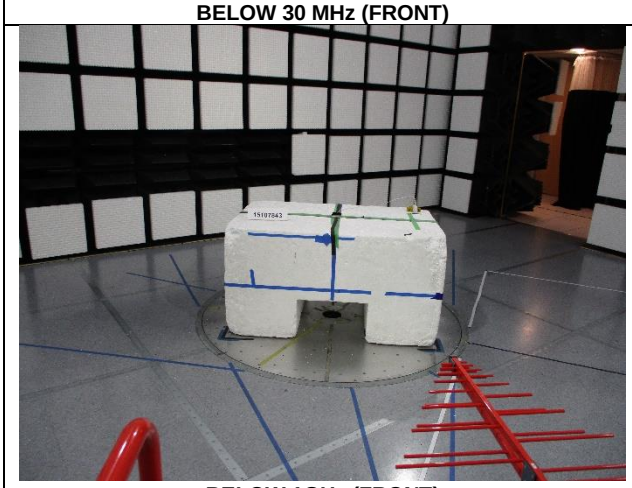
X (Flatbed Orientation)



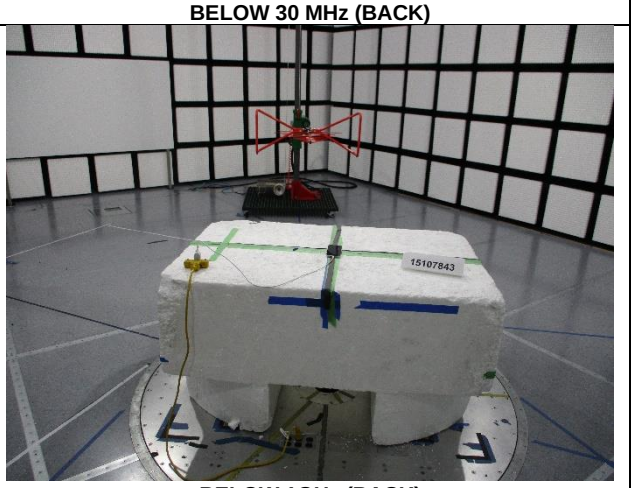
BELOW 30 MHz (FRONT)



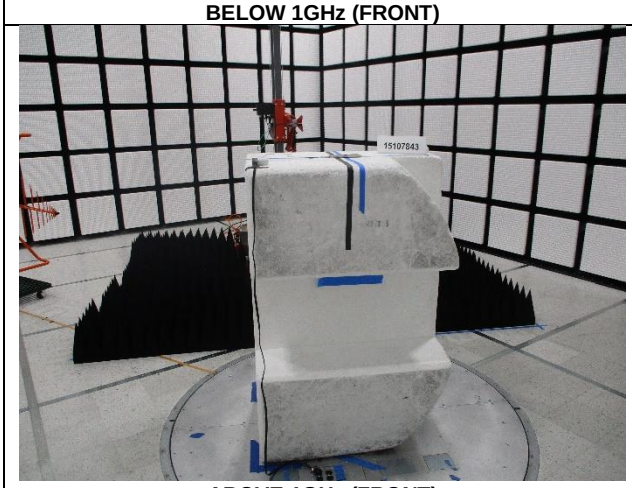
BELOW 30 MHz (BACK)



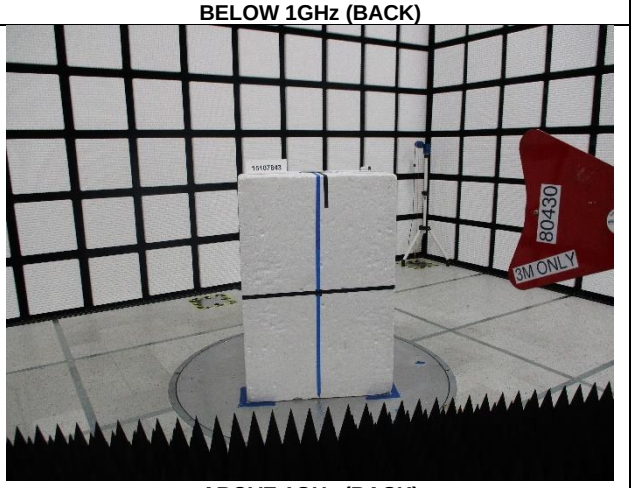
BELOW 1GHz (FRONT)



BELOW 1GHz (BACK)

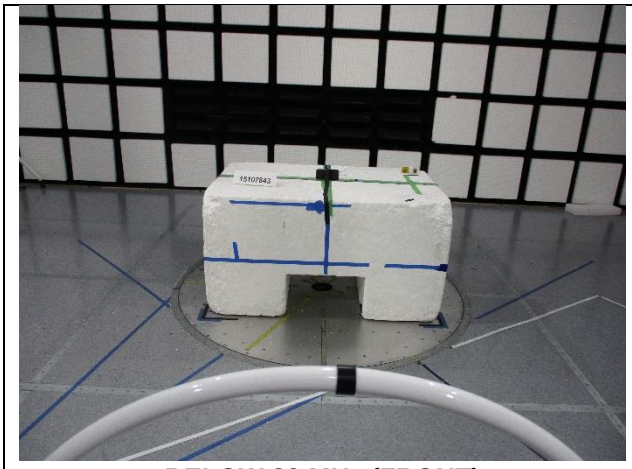


ABOVE 1GHz (FRONT)

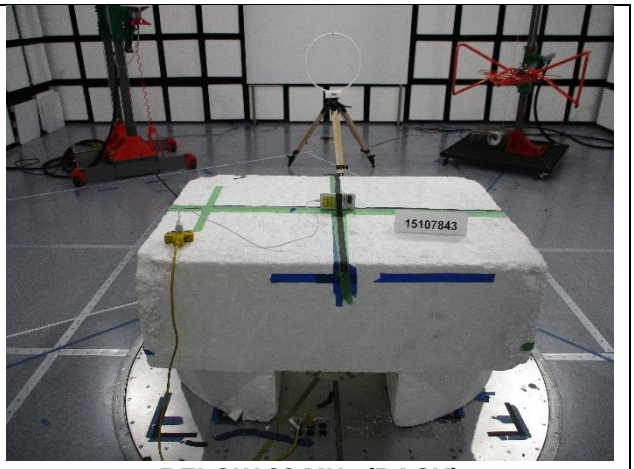


ABOVE 1GHz (BACK)

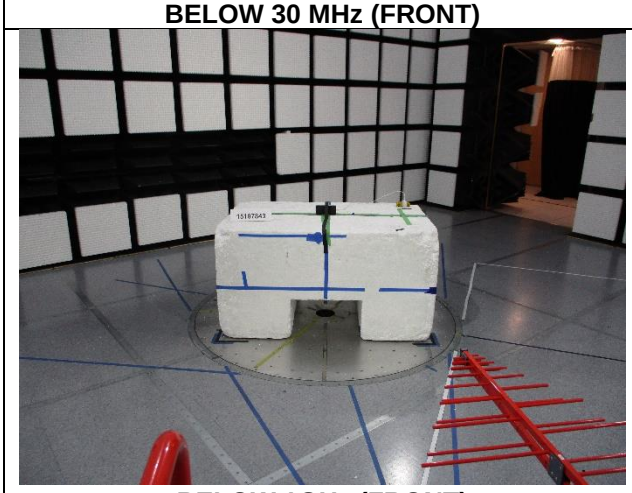
Y (Landscape Orientation)



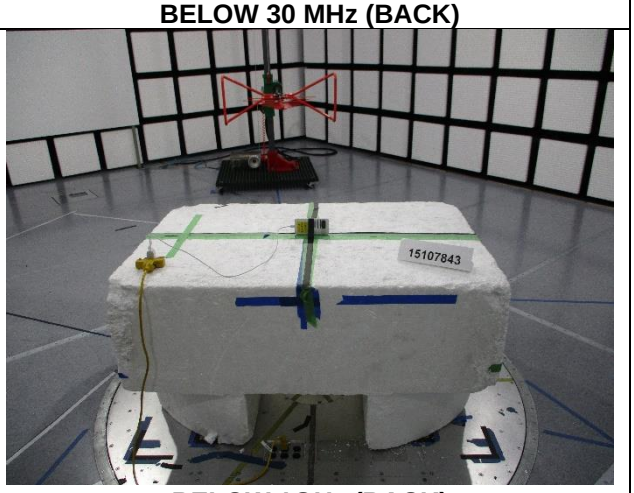
BELOW 30 MHz (FRONT)



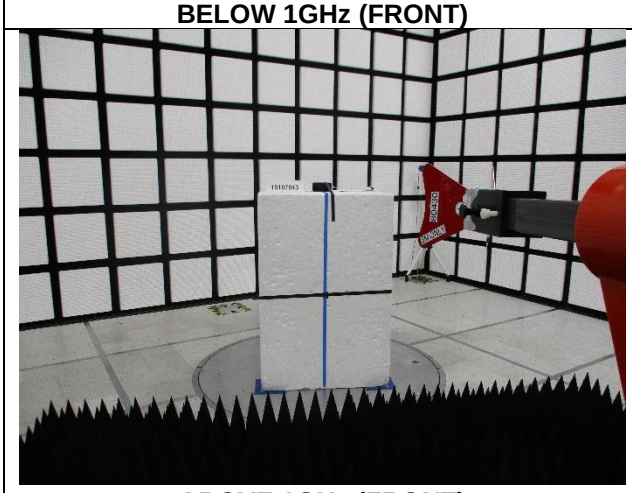
BELOW 30 MHz (BACK)



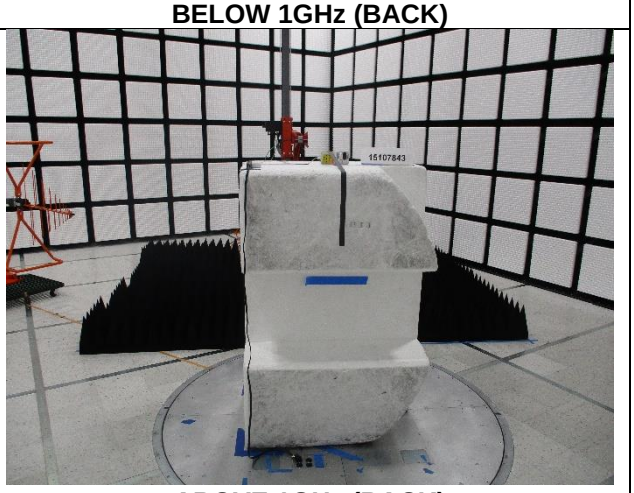
BELOW 1GHz (FRONT)



BELOW 1GHz (BACK)

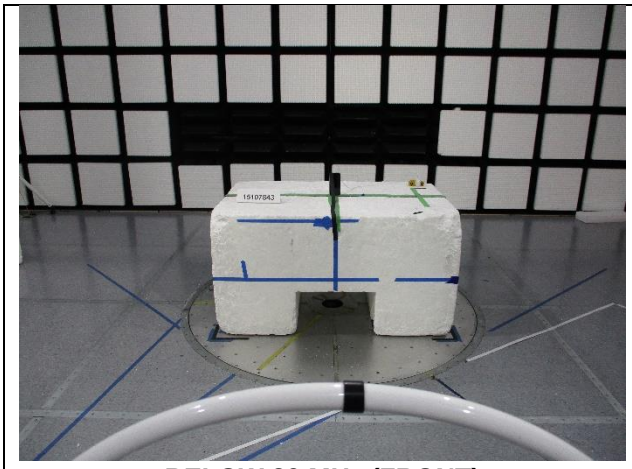


ABOVE 1GHz (FRONT)

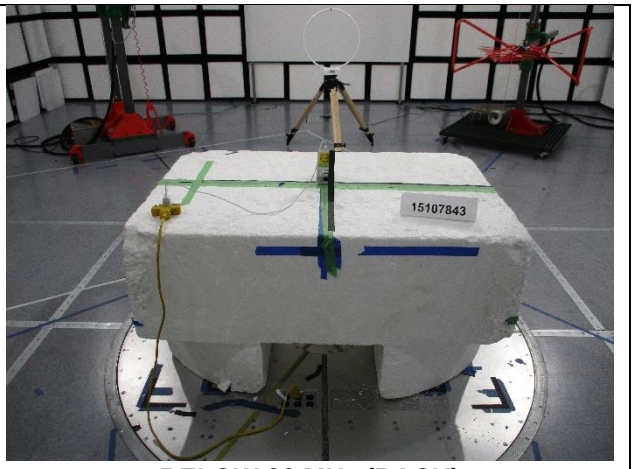


ABOVE 1GHz (BACK)

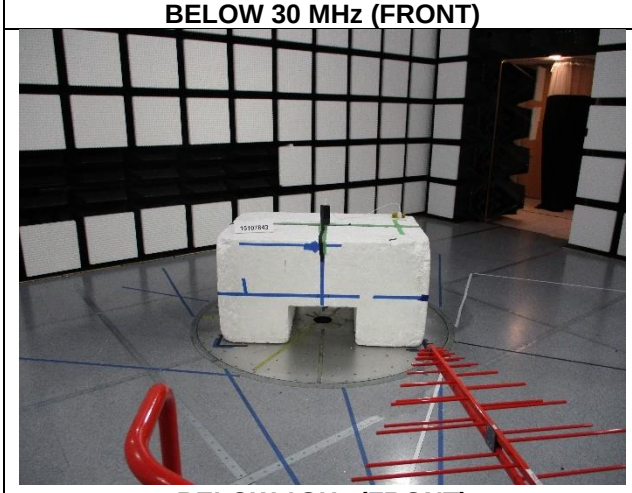
Z (Portrait Orientation)



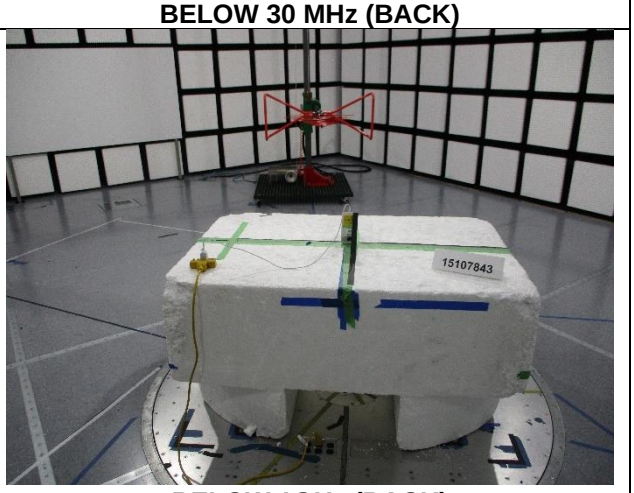
BELOW 30 MHz (FRONT)



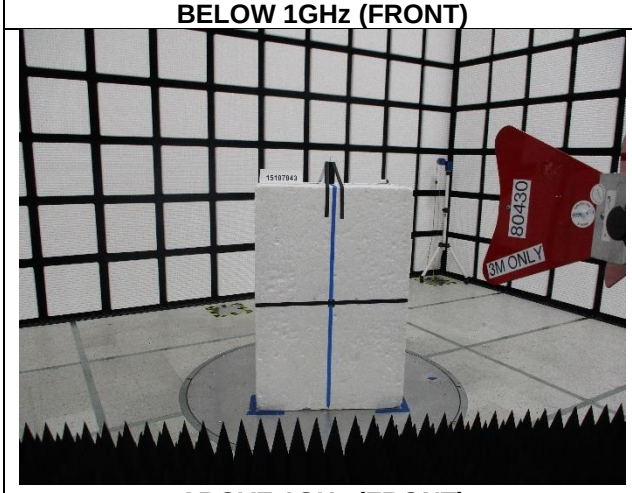
BELOW 30 MHz (BACK)



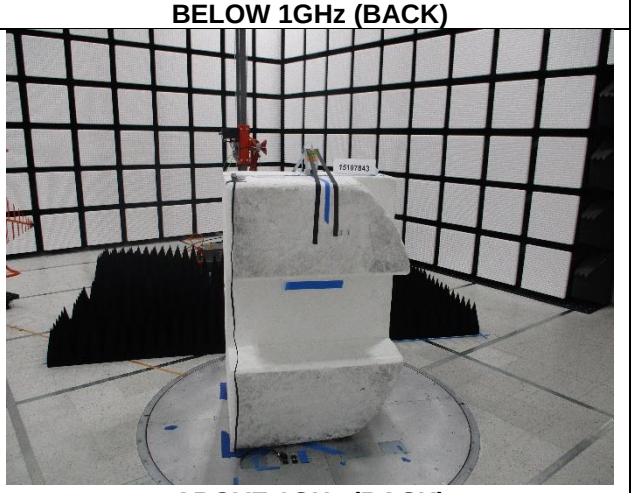
BELOW 1GHz (FRONT)



BELOW 1GHz (BACK)



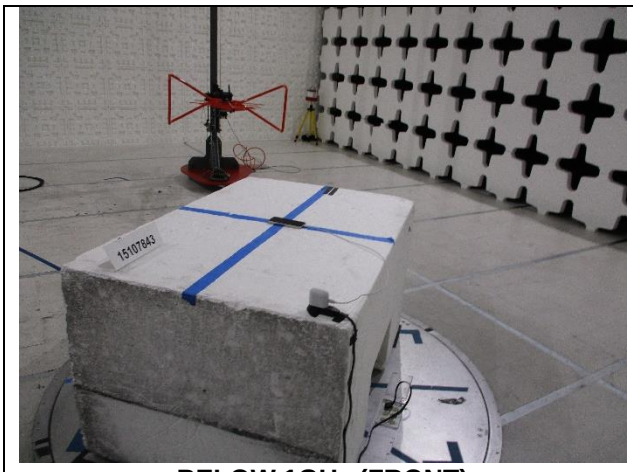
ABOVE 1GHz (FRONT)



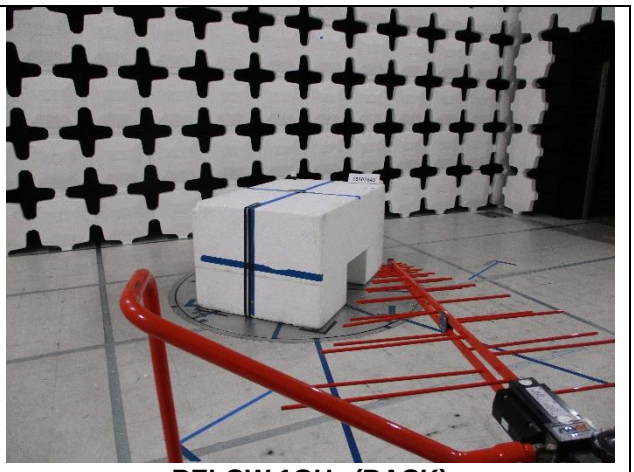
ABOVE 1GHz (BACK)

2.5.3. WWAN 2G/3G/4G/5G/NTN

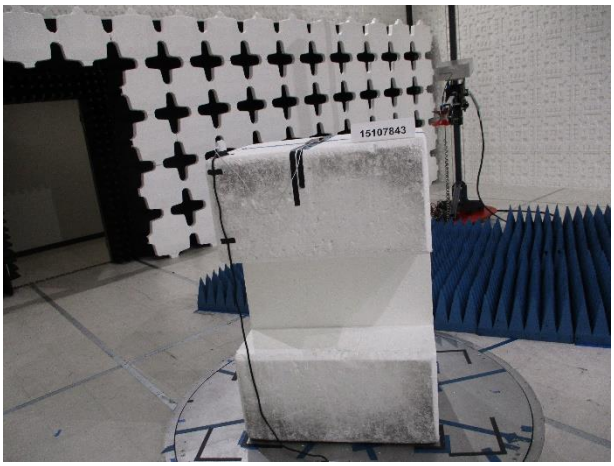
X (Flatbed Orientation)



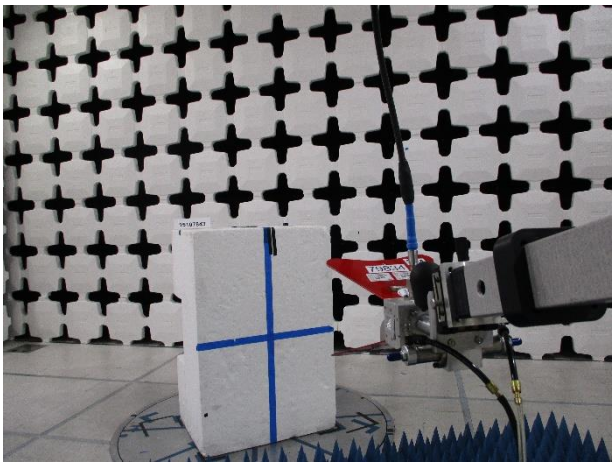
BELOW 1GHz (FRONT)



BELOW 1GHz (BACK)

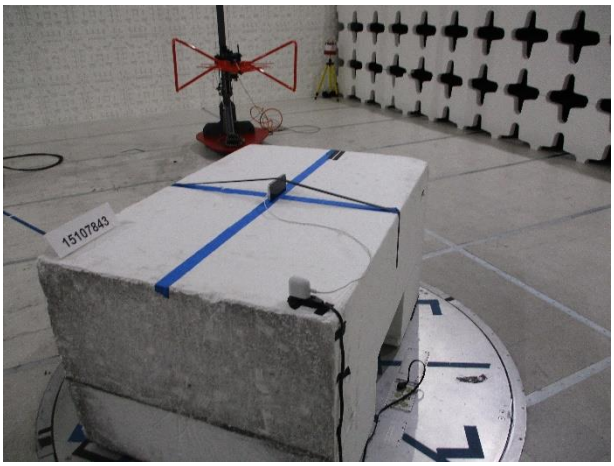


ABOVE 1GHz (FRONT)

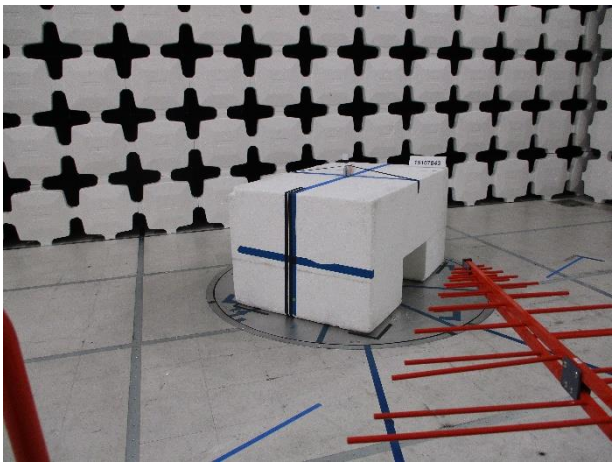


ABOVE 1GHz (BACK)

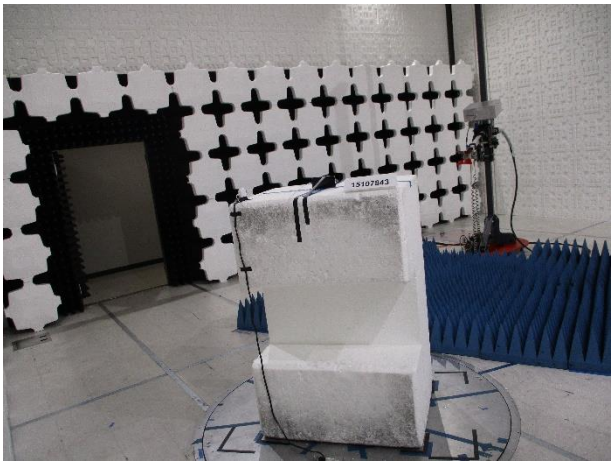
Y (Landscape Orientation)



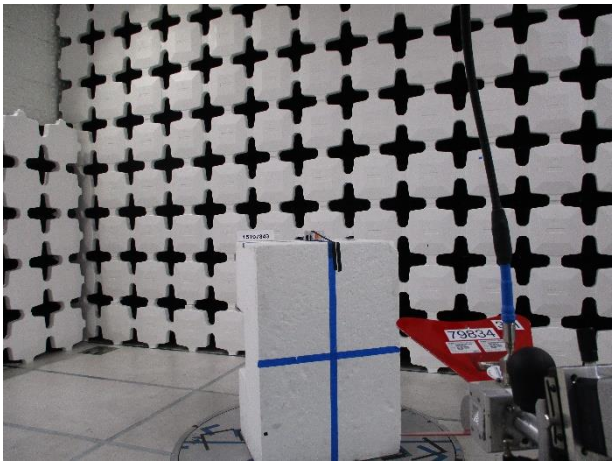
BELOW 1GHz (FRONT)



BELOW 1GHz (BACK)

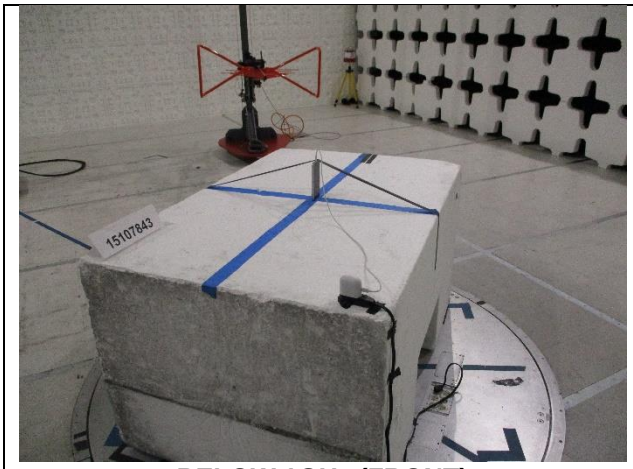


ABOVE 1GHz (FRONT)

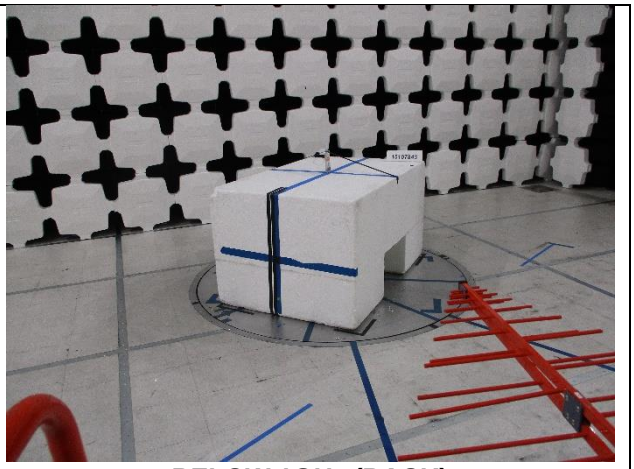


ABOVE 1GHz (BACK)

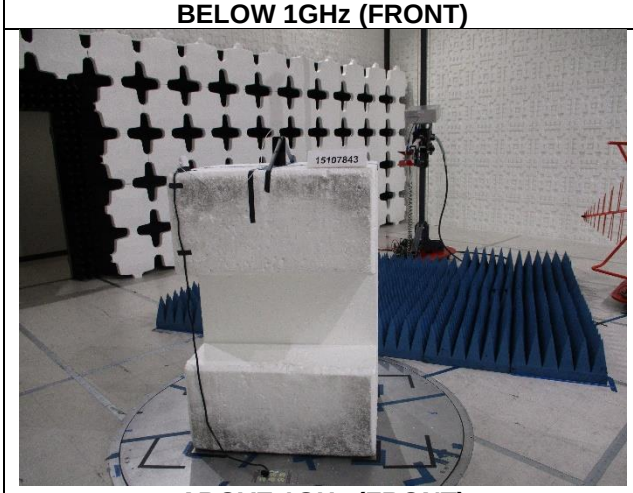
Z (Portrait Orientation)



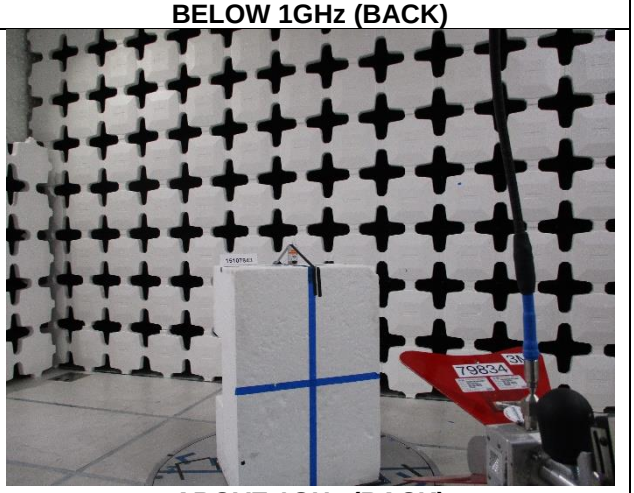
BELOW 1GHz (FRONT)



BELOW 1GHz (BACK)



ABOVE 1GHz (FRONT)

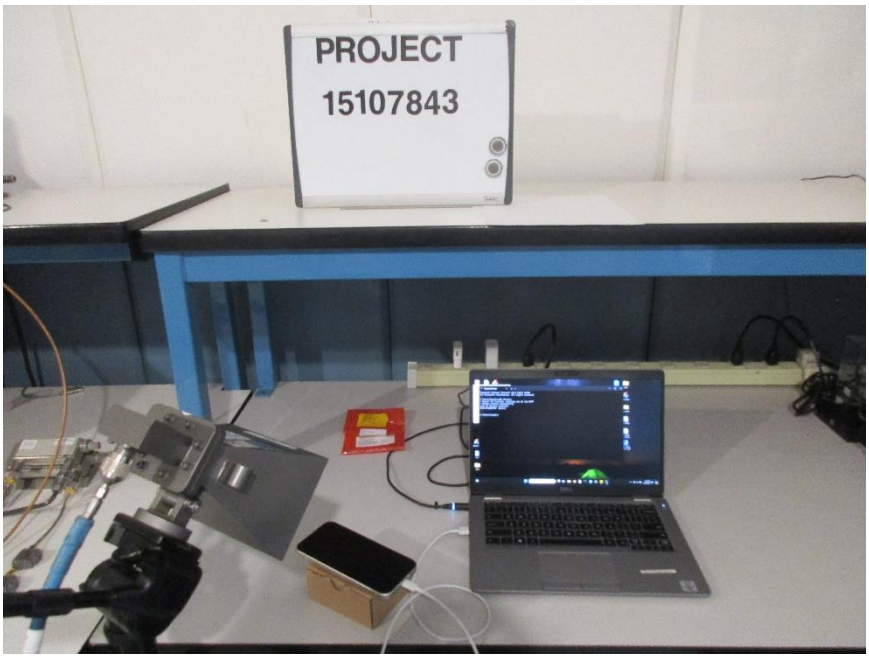


ABOVE 1GHz (BACK)

3. CBRS

4. DYNAMIC FREQUENCY SELECTION MEASUREMENT SETUP

DFS CLIENT MODE FRONT PHOTO

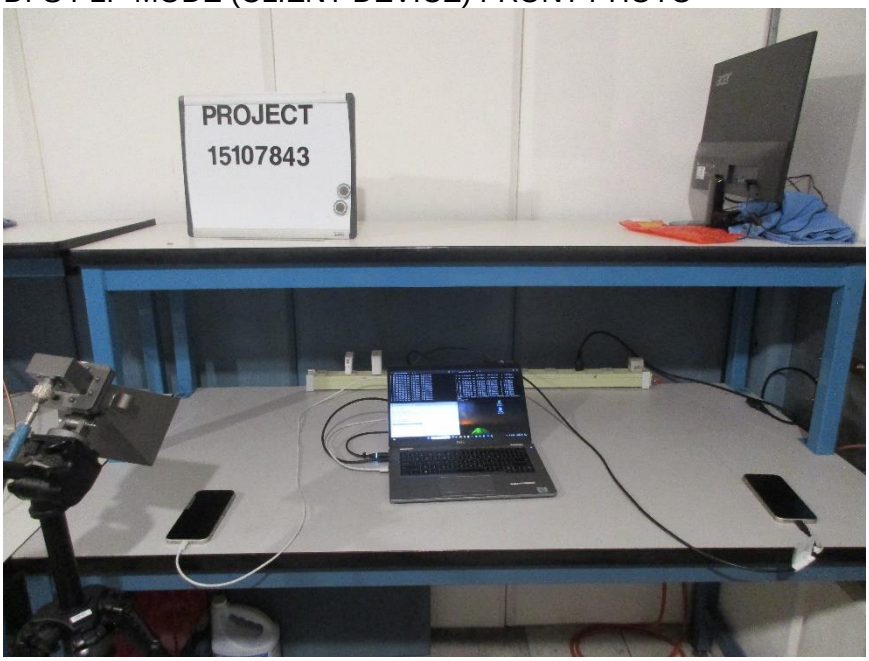


DFS CLIENT MODE SIDE PHOTO

DFS P2P MODE (OWNER DEVICE) FRONT PHOTO

DFS P2P MODE (OWNER DEVICE) SIDE PHOTO

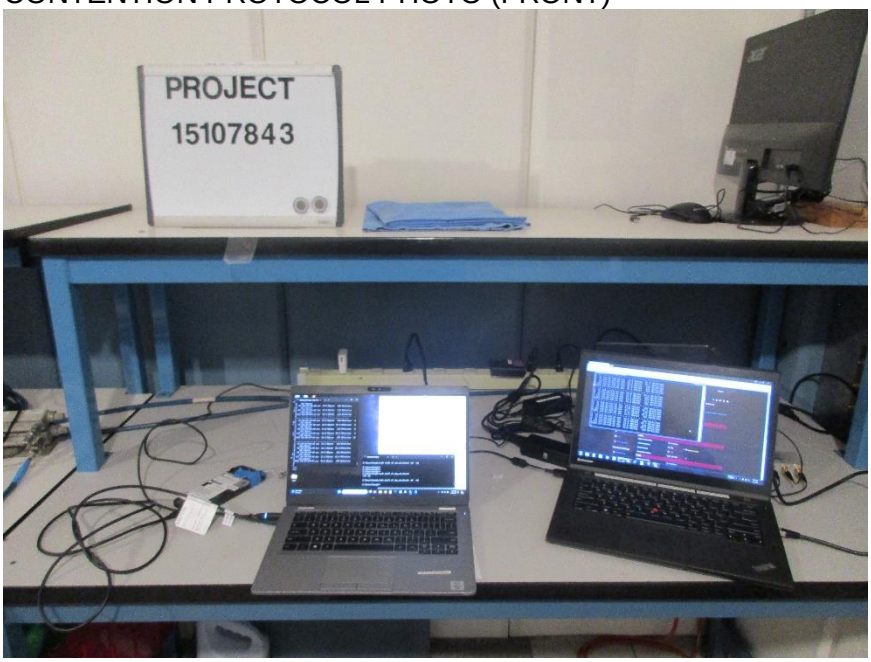
DFS P2P MODE (CLIENT DEVICE) FRONT PHOTO



DFS P2P MODE (CLIENT DEVICE) SIDE PHOTO

5. CONTENTION PROTOCOL MEASUREMENT SETUP

CONTENTION PROTOCOL PHOTO (FRONT)



CONTENTION PROTOCOL PHOTO (BACK)

END OF REPORT