



# **TEST REPORT**

**Report Number :** 13584001-E14V2

**Applicant :** APPLE, INC.  
1 APPLE PARK WAY  
CUPERTINO, CA 95014, U.S.A

**Models :** A2631 (Parent Model)  
A2635, A2633, A2634 (Variant Models)

**FCC IDs :** BCG-E3999A (Parent Model)  
BCG-E4032A, BCG-E4031A (Variant Models)

**IC IDs :** 579C-E3999A (Parent Model)  
579C-E4032A, 579C-E4031A (Variant Models)

**EUT Description :** SMARTPHONE

**Test Standard(s) :** FCC CFR 47 PART 15 SUBPART F §15.519  
ISED RSS-220 ISSUE 1 AMENDMENT 1

**Date Of Issue:**

August 10, 2021

**Prepared by:**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	07/15/2021	Initial Issue	Thu Chan
V2	08/10/2021	Address TCB Question	Livius Darmawan

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**1. ATTESTATION OF TEST RESULTS**

**COMPANY NAME:** APPLE, INC.  
ONE APPLE PARK WAY  
CUPERTINO, CA 95014, USA

**EUT DESCRIPTION:** SMARTPHONE

**MODELS:** A2631 (Parent Model)  
A2635, A2633, A2634 (Variant Models)

**BRAND:** APPLE

**FCC IDs:** BCG-E3999A (Parent Model)  
BCG-E4032A, BCG-E4031A (Variant Models)

**IC IDs:** 579C-E3999A (Parent Model)  
579C-E4032A, 579C-E4031A (Variant Models)

**SERIAL NUMBERS:** VYKQDXM279; XWGGFJ25JV

**SAMPLE RECEIPT DATES:** APRIL 13, 2021; JUNE 4, 2021

**DATE TESTED:** APRIL 16 – JUNE 4, 2021

<b>APPLICABLE STANDARDS</b>	
<b>STANDARD</b>	<b>TEST RESULTS</b>
FCC §15 Subpart F	Complies
ISED RSS-220 Issue 1 Amendment 1	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For  
UL Verification Services Inc. By:

Tested By:



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Thu Chan  
Staff Engineer  
UL Verification Services Inc.

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Alejandro Martinez  
Laboratory Engineer  
UL Verification Services Inc.

## 2. TEST RESULTS SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6
-	RSS-GEN 6.7	99% OBW	Reporting purposes only	ANSI C63.10 Section 6.9.4
15.503 & 15.519 (b)	RSS-220 Sect. 2	-10 dB BW	Complies	ANSI C63.10 Section 10.1
15.519 (c) & (e)	RSS-220 Sect. 4 (c) & 5.3.1 (d)	Pk Power & Max Avg Emissions	Complies	ANSI C63.10 Section 10.3
15.519 (a)(1)	RSS-220 Sect. 5.3.1 (b)	Cessation Time	Complies	None
15.519 (c) & 15.209 (a)	RSS-220 Sect. 3.4	Emissions Below 960 MHz	Complies	ANSI C63.10 Section 10.2
15.519 (c) & (d)	RSS-220 Sect. 5.3.1 (d) & (e)	Emissions Above 960 MHz	Complies	ANSI C63.10 Section 10.3
15.207 (a)	RSS-Gen 8.8	AC Power Line Conducted Emissions	Complies	ANSI C63.10 Section 6.2

## 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with CFR Title 47 Part 15 Subpart F, KDB 393764 D01 UWB FAQ v02, ISED RSS-220 Issue 1 Amendment 1 and ANSI C63.10-2013 and RSS GEN Issue 5.

## 4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	208313
<input checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104	22541	208313
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA	US0104	2324B	208313

## 5. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

### 5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U <sub>LAB</sub>
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

### 5.4. SAMPLE CALCULATION

#### RADIATED EMISSION

Where relevant, the following sample calculation is provided:

$$\begin{aligned}
 \text{EIRP (dBm)} &= \text{Meter Reading (dBm)} + \text{Antenna Factor (dB/m)} + \text{Pre-Amp Gain/Cbl Loss (dB)} \\
 &\quad + \text{dBm-to-dBm Unit Conversion Factor @ 3m} \\
 &= -60 \text{ dBm} + 28 \text{ dB/m} + (-27) \text{ dB} + 11.7 \\
 &= -48.3 \text{ dBm}
 \end{aligned}$$



## 6. EQUIPMENT UNDER TEST

### 6.1. DESCRIPTION OF EUT

The EUT is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G, CDMA, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS and NFC. All models support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

This test report addresses the UWB operational mode.

The EUT has a UWB transceiver with four integral antennas (ANT 0 = UWB1, ANT 1 = UWB2, ANT 2 = ANT6/UWB0 & ANT3 = UWB3). ANT0 and ANT1 only operates on 8 GHz (Channel 9). ANT2 and ANT3 operates on 6.5 GHz (Channel 5) and 8 GHz (Channel 9). The antennas are not user accessible. Six signal configurations (CONFIG 0,1,2,3,4 & 5) are available for each ANT/CH setting.

ANT	CH	CONFIG
0	9	0
0	9	1
0	9	2
0	9	3
0	9	4
0	9	5
1	9	0
1	9	1
1	9	2
1	9	3
1	9	4
1	9	5
2	5	0
2	5	1
2	5	2
2	5	3
2	5	4
2	5	5
2	9	0
2	9	1
2	9	2
2	9	3
2	9	4
2	9	5
3	5	0
3	5	1
3	5	2
3	5	3
3	5	4
3	5	5
3	9	0
3	9	1
3	9	2
3	9	3
3	9	4
3	9	5

Testing was performed on the parent model and is used to support the application for the parent and variants identified in this report based on the test plan submitted and approved via KDB inquiry by the FCC and by ISED-Canada.

The Model, FCC ID and IC ID covered by this report includes:

Parent Model: A2631; FCC ID: BCG-E3999A; IC ID: 579C-E3999A

Variant Models: A2635; FCC ID: BCG-E4032A; IC ID: 579C-E4032A

A2633; FCC ID: BCG-E4031A; IC ID: 579C-E4031A

A2634; FCC ID: BCG-E4032A; IC ID: 579C-E4032A

## 6.2. MAXIMUM OUTPUT POWER

Highest Average Powers based on ANT/CH.

ANT	CH	CONFIG	Average Power (dBm EIRP)
0	9	4	-42.31
1	9	4	-42.41
2	5	5	-42.37
2	9	1	-42.33
3	5	4	-42.38
3	9	2	-42.55

## 6.3. DESCRIPTION OF AVAILABLE ANTENNAS

Four integral antennas are employed and the antenna gains are listed as follow:

CH	Freq. Band (GHz)	Gain (dBi)			
		ANT 0 (UWB1)	ANT 1 (UWB2)	ANT 2 (ANT6/UWB0)	ANT 3 (UWB3)
5	6.5	n/a	n/a	-2.0	1.2
9	8.0	1.0	-1.3	1.9	1.9

## 6.4. MODULATION

The UWB signal is BPSK pulsed modulated signal.

## 6.5. SOFTWARE AND FIRMWARE

The Software and Firmware version used at test is 19A272.

## 7. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

SUPPORT EQUIPMENT LIST			
Description	Manufacturer	Model	Serial Number
Laptop + Adapter	Apple	Mac Book Pro	C02TK02YJ10C
Kanzi – USB Adapter	Apple	--	31EF77
Laptop + Adapter	Apple	Mac Book Pro	C02YVBP0LVDD
Kanzi – USB Adapter	Apple	--	316C5F
Smartphone	Apple	A2482	K16LWMQL91

### I/O CABLES

I/O CABLES					
Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
AC	1	AC	Un-shielded	2	N/A
USB	1	USB	Un-shielded	1	N/A

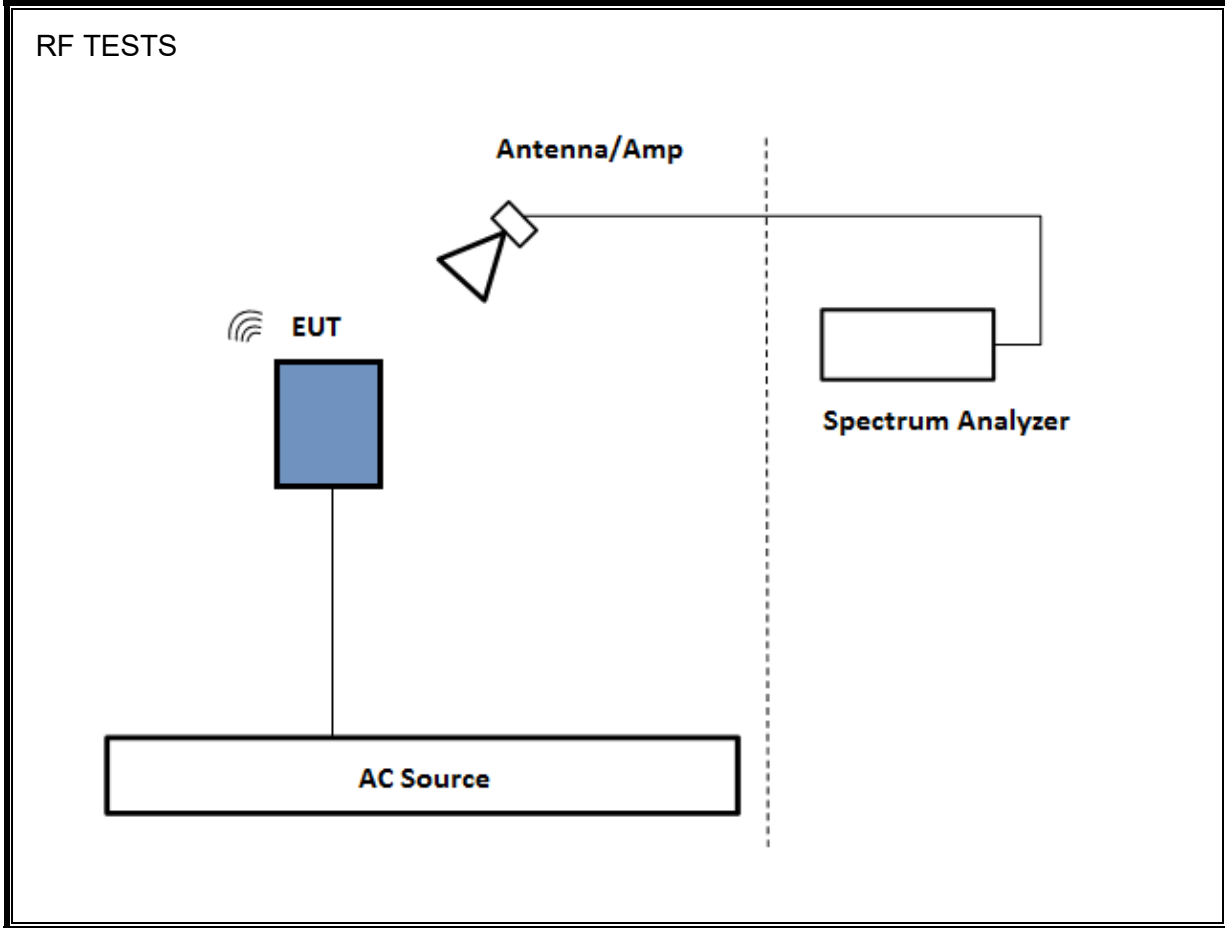
### TEST SETUP

The EUT was examined at pre-scan test using a fundamental frequency in the portrait (z), landscape (y), and flatbed (x) position and the worst case orientation of individual ANT/CH/CONFIG setting was determined for final spurious emission measurement. Config 3, Payload 125 of both CH5 and CH9 on all 4 antennas were selected to test for unwanted emissions as the worst case after pre-scan.

Measurements of spurious average emissions were made with the device operating at a higher power than production power to ensure compliance. Measurements of the in-band signal (peak and average emissions, 10 dBc bandwidth, 99% bandwidth) were all made at the production power settings.

EUT was connected to AC power adapter in all test cases.

For simultaneous transmission on the same antenna of multiple channels in the UWB and WiFi, no noticeable new emission was found.



## 8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List					
Description	Manufacturer	Model	Local ID	Cal Date	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESW44	PRE0203383	2/24/2021	2/24/2022
Horn Antenna, 1-18 GHz	ETS Lindgren	3117	T120	4/7/2021	4/7/2022
Preamp, 1-18 GHz	Miteq	AFS42-00101800-25-S-42	PRE0183207	6/11/2020	6/11/2021*
PXA Signal Analyzer	Agilent	N9030A	T906	1/27/2021	1/27/2022
Hybrid Antenna, 30-2000 MHz	SunAR	JB3	T900	2/24/2021	2/24/2022
Preamp, 0.1-1300 MHz	Sonoma Inst.	310	T173	7/22/2020	7/22/2021
Horn Antenna, 1-18 GHz	ETS Lindgren	3117	T712	3/22/2021	3/22/2022
Preamp, 1-18 GHz	Miteq	AFS42-00101800-25-S-42	PRE0183530	8/27/2020	8/27/2021
Antenna, Active Loop 9kHz-30MHz	ETS Lindgren	6502	T757	11/12/2020	11/12/2021
PXA Signal Analyzer	Agilent	N9030A	T1454	1/27/2021	1/27/2022
Preamplifier, 1-26.5GHz	Agilent	8449B	T404	4/19/2021	4/19/2022
Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	T449	4/22/2021	4/22/2022
Preamplifier, 26-40 GHz	Miteq	NSTTA2640-35-HG	T1864	4/19/2021	4/19/2022
Horn Antenna, 26-40 GHz	ARA	MWH-2640/B	PRE0183142	4/22/2021	4/22/2022
Low Pass Filter	Microtronics	LPM20143	188196	11/3/2020	11/3/2021
High Pass Filter, CH5	Wainwright Inst. GMBH	WHW2-7100-10000-18000-40DC	176232	11/3/2020	11/3/2021
High Pass Filter, CH9	Wainwright Inst. GMBH	WHW2-8165-11500-21000-40CD	176234	10/26/2020	10/26/2021
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	T1436	2/19/2021	2/19/2022
Power Cable, Line Conducted Emissions	Pasternack Enterprises	RG233/U	202327	10/16/2020	10/16/2021
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01	PRE0186446	1/20/2021	1/20/2022
Radiated Software	UL	UL EMC	Ver 9.5.07, July 2020		
AC Line Conducted Software	UL	UL EMC	Ver 9.5.07, July 2020		

\*Equipment was used to perform tests prior to the calibration due date.

## **9. APPLICABLE LIMITS AND TEST RESULTS**

### **9.1. 99% BANDWIDTH**

#### **LIMIT**

None; for reporting purposes only.

#### **TEST PROCEDURE**

ANSI C63.10 Section 6.9.4

The transmitter output is connected to a spectrum analyzer. The RBW is in the range of 1% to 5% of the OBW bandwidth. The VBW is set to  $\geq 3 \cdot \text{RBW}$ . The sweep time is coupled.

Tabulated data provides the test results of all available test configurations. The plots of Ant 3, CONFIG 0, Payload 125 bandwidth measurement on CH5 and CH9 are presented and same measurement settings apply to the rest of test configurations.

**RESULTS**

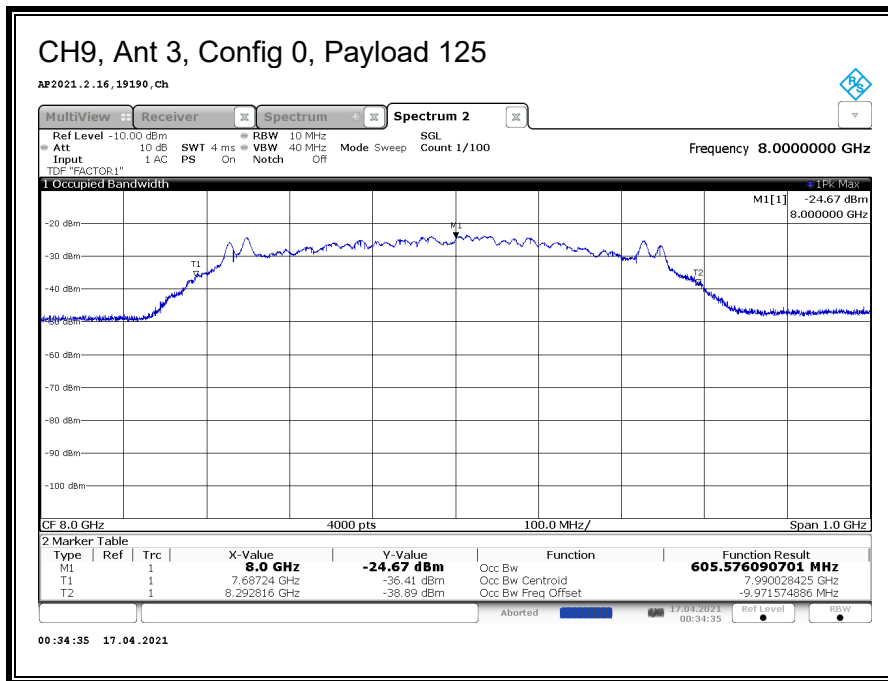
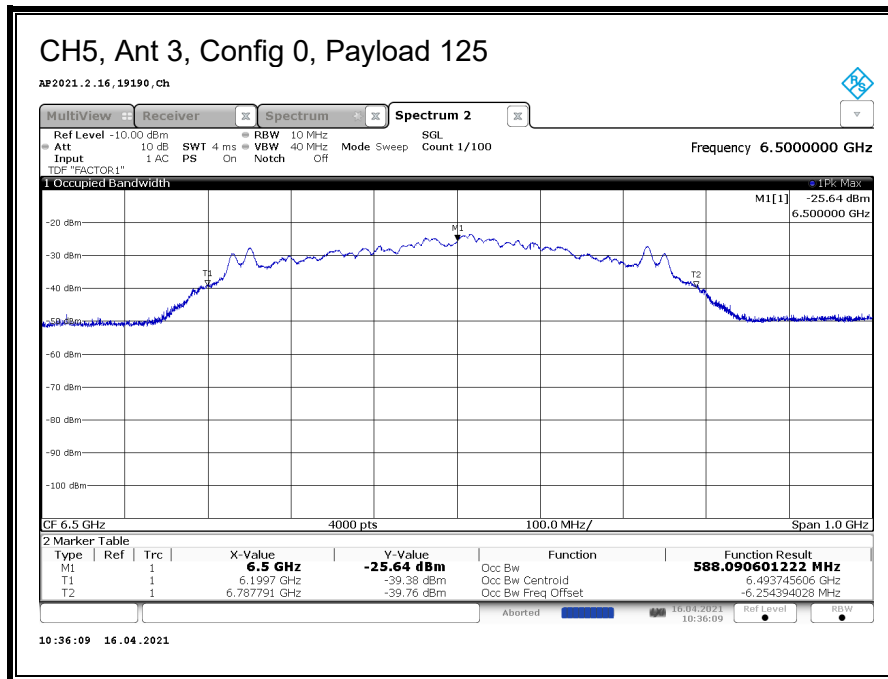
Employee IDs: 19419, 19190, 12471, 20737

Location: Chamber D

Test Date: 04/15/2021 – 04/16/2021

ANT	CH	CONFIG	Payload	EUT Orientation	Meas. Ant Polarity	99% BW (MHz)
0	9	0	125	Portrait	H	603.13
0	9	1	125	Portrait	H	597.46
0	9	2	125	Portrait	H	653.06
0	9	3	125	Portrait	H	647.75
0	9	4	0	Portrait	H	667.54
0	9	5	0	Portrait	H	616.00
1	9	0	125	Portrait	H	604.58
1	9	1	125	Portrait	H	592.38
1	9	2	125	Portrait	H	700.60
1	9	3	125	Portrait	H	680.27
1	9	4	0	Portrait	H	757.30
1	9	5	0	Portrait	H	656.41
2	5	0	125	Flatbed	V	604.38
2	5	1	125	Flatbed	V	603.93
2	5	2	125	Flatbed	V	626.02
2	5	3	125	Flatbed	V	627.85
2	5	4	0	Flatbed	V	620.91
2	5	5	0	Flatbed	V	603.87
2	9	0	125	Landscape	H	612.39
2	9	1	125	Landscape	H	603.10
2	9	2	125	Landscape	H	668.00
2	9	3	125	Landscape	H	664.43
2	9	4	0	Landscape	H	686.76
2	9	5	0	Landscape	H	633.88
3	5	0	125	Portrait	H	588.09
3	5	1	125	Portrait	H	580.08
3	5	2	125	Portrait	H	638.01
3	5	3	125	Portrait	H	625.11
3	5	4	0	Portrait	H	677.65
3	5	5	0	Portrait	H	614.54
3	9	0	125	Portrait	H	605.58
3	9	1	125	Portrait	H	599.18
3	9	2	125	Portrait	H	664.04
3	9	3	125	Portrait	H	655.16
3	9	4	0	Portrait	H	713.14
3	9	5	0	Portrait	H	648.21

**99% BW**





## 9.2. OPERATING BANDWIDTH

### LIMITS

#### FCC

§15.503 (a) *UWB bandwidth*. For the purpose of this subpart, the UWB bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna. The upper boundary is designated  $f_H$  and the lower boundary is designated  $f_L$ . The frequency at which the highest radiated emission occurs is designated  $f_M$ .

§15.503 (b) *Center frequency*. The center frequency,  $f_C$ , equals  $(f_H + f_L)/2$ .

§15.503 (c) *Fractional bandwidth*. The fractional bandwidth equals  $2(f_H - f_L)/(f_H + f_L)$ .

§15.503 (d) *Ultra-wideband (UWB) transmitter*. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

§15.519 (b) The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

#### RSS-220

Section 2 A *UWB device* is an intentional radiator that has either a *-10 dB bandwidth* of at least 500 MHz or a *-10 dB fractional bandwidth* greater than 0.2.

Section 5.1 (a) The *-10 dB bandwidth* of the device shall be totally contained in the band 3.1-10.6 GHz.

“-10 dB bandwidth  $B_{-10}$ ” and “-10 dB fractional bandwidth  $\mu_{-10}$ ” are defined as follows:

$$B_{-10} = f_H - f_L$$

$$\mu_{-10} = B_{-10}/f_C$$

where:

$f_M$  is the frequency of maximum UWB transmission;

$f_H$  is the highest frequency at which the power spectral density of the UWB transmission is -10 dB relative to  $f_M$ ;

$f_L$  is the lowest frequency at which the power spectral density of the UWB transmission is -10 dB relative to  $f_M$ ; and

$f_C = (f_H + f_L)/2$  is the centre frequency of the -10 dB bandwidth.

### TEST PROCEDURE

ANSI C63.10 Clause 10.1

RSS-220 Section 2 of the Annex

Tabulated data provides the test results of all available test configurations. The plots of Ant 3, CONFIG 0, Payload 125 bandwidth measurement on CH5 and CH9 are presented and same measurement settings apply to the rest of test configurations.

**RESULTS**

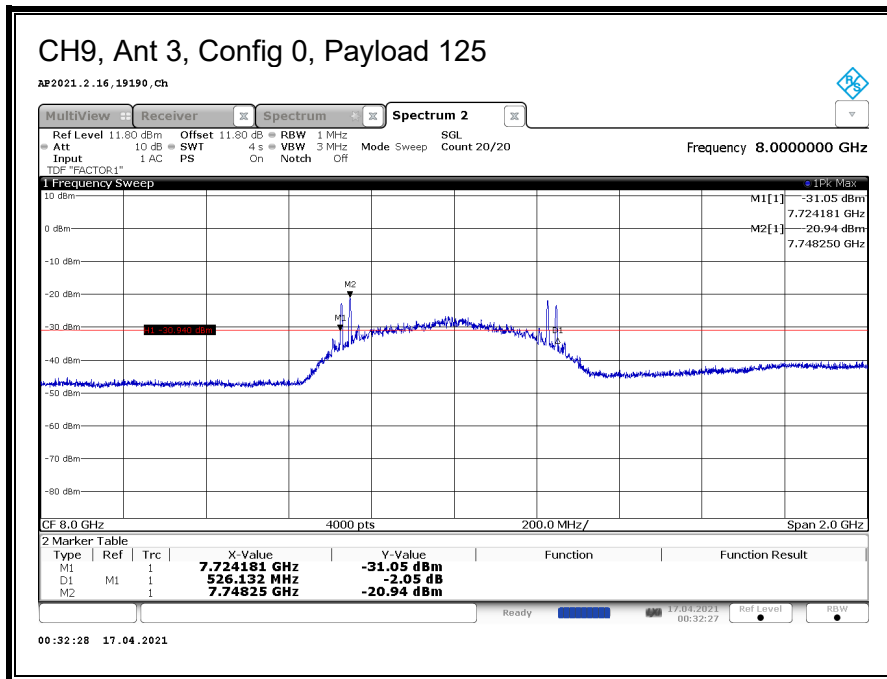
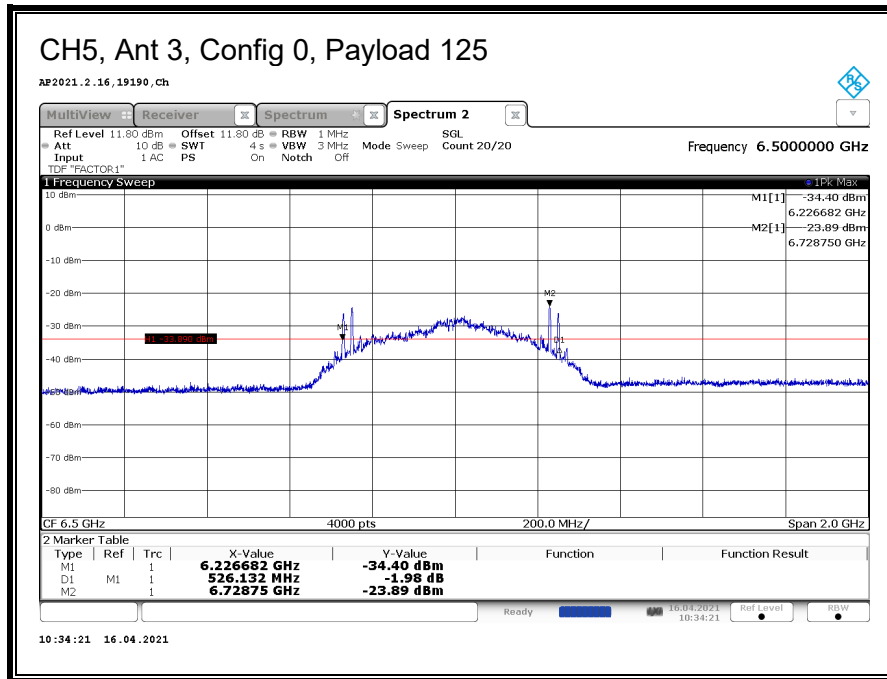
Employee IDs: 19419, 19190, 12471, 20737

Location: Chamber D

Test Date: 04/15/2021 – 04/16/2021

ANT	CH	CONFIG	Payload	EUT Orientation	Meas. Ant Polarity	FM (GHz)	FL (GHz)	FH (GHz)	FC (GHz)	OBW (MHz)	Min. OBW (MHz)	OBW Margin (MHz)	OBW Pass/Fail
0	9	0	125	Portrait	H	8.227	7.724	8.250	7.987	526.13	500	26.13	P
0	9	1	125	Portrait	H	8.226	7.724	8.250	7.987	526.13	500	26.13	P
0	9	2	125	Portrait	H	8.226	7.726	8.249	7.987	523.13	500	23.13	P
0	9	3	125	Portrait	H	7.748	7.726	8.248	7.987	522.63	500	22.63	P
0	9	4	0	Portrait	H	8.226	7.724	8.250	7.987	526.13	500	26.13	P
0	9	5	0	Portrait	H	8.226	7.723	8.251	7.987	528.13	500	28.13	P
1	9	0	125	Portrait	H	8.226	7.725	8.250	7.987	525.63	500	25.63	P
1	9	1	125	Portrait	H	8.226	7.724	8.250	7.987	526.13	500	26.13	P
1	9	2	125	Portrait	H	8.227	7.726	8.249	7.987	523.13	500	23.13	P
1	9	3	125	Portrait	H	8.226	7.726	8.248	7.987	522.13	500	22.13	P
1	9	4	0	Portrait	H	8.226	7.725	8.250	7.987	525.63	500	25.63	P
1	9	5	0	Portrait	H	8.226	7.724	8.251	7.987	527.63	500	27.63	P
2	5	0	125	Flatbed	V	6.250	6.227	6.752	6.489	525.63	500	25.63	P
2	5	1	125	Flatbed	V	6.250	6.227	6.752	6.489	525.63	500	25.63	P
2	5	2	125	Flatbed	V	6.250	6.228	6.751	6.489	523.63	500	23.63	P
2	5	3	125	Flatbed	V	6.250	6.228	6.751	6.489	522.63	500	22.63	P
2	5	4	0	Flatbed	V	6.250	6.226	6.752	6.489	526.13	500	26.13	P
2	5	5	0	Flatbed	V	6.251	6.226	6.753	6.489	527.63	500	27.63	P
2	9	0	125	Landscape	H	8.226	7.724	8.250	7.987	526.13	500	26.13	P
2	9	1	125	Landscape	H	8.226	7.724	8.250	7.987	526.13	500	26.13	P
2	9	2	125	Landscape	H	8.227	7.725	8.249	7.987	524.13	500	24.13	P
2	9	3	125	Landscape	H	8.226	7.726	8.249	7.987	522.63	500	22.63	P
2	9	4	0	Landscape	H	8.226	7.724	8.250	7.987	526.13	500	26.13	P
2	9	5	0	Landscape	H	8.226	7.723	8.251	7.987	528.13	500	28.13	P
3	5	0	125	Portrait	H	6.729	6.227	6.753	6.490	526.13	500	26.13	P
3	5	1	125	Portrait	H	6.729	6.227	6.753	6.490	526.13	500	26.13	P
3	5	2	125	Portrait	H	6.729	6.228	6.751	6.489	523.63	500	23.63	P
3	5	3	125	Portrait	H	6.729	6.228	6.751	6.489	522.63	500	22.63	P
3	5	4	0	Portrait	H	6.729	6.227	6.753	6.490	526.13	500	26.13	P
3	5	5	0	Portrait	H	6.729	6.226	6.754	6.490	528.13	500	28.13	P
3	9	0	125	Portrait	H	7.748	7.724	8.250	7.987	526.13	500	26.13	P
3	9	1	125	Portrait	H	7.748	7.724	8.250	7.987	526.13	500	26.13	P
3	9	2	125	Portrait	H	7.748	7.725	8.249	7.987	523.63	500	23.63	P
3	9	3	125	Portrait	H	7.748	7.726	8.248	7.987	522.63	500	22.63	P
3	9	4	0	Portrait	H	7.748	7.724	8.250	7.987	525.63	500	25.63	P
3	9	5	0	Portrait	H	7.749	7.723	8.251	7.987	527.63	500	27.63	P

**RESULTS**



### 9.3. PEAK POWER AND MAXIMUM AVERAGE EMISSIONS

#### LIMITS

#### FCC

15.519 (e) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs,  $f_M$ . That limit is 0 dBm EIRP.

15.519 (c) The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency in MHz	EIRP in dBm
3100 - 10600	-41.3

#### RSS-220

Annex, Section 4 (c) Peak measurements shall be made in addition to average measurements. Transmissions shall not exceed 0 dBm e.i.r.p. in any 50 MHz bandwidth when the average limit is -41.3 dBm/MHz.

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

Frequency	E.I.R.P. in a Resolution Bandwidth of 1 MHz
4.75 – 10.6 GHz	-41.3 dBm

#### TEST PROCEDURE

ANSI C63.10 Clause 10.3

RSS-220 Annex

Peak EIPR power is measured using RBW of 50 MHz.

The radiated emissions of 6 - 9 GHz frequency band are performed at 3-meter test distance.

Tabulated data provides the test results of all available test configurations. The plots of Ant 3, CONFIG 0, Payload 125 power measurement on CH5 and CH9 are presented and same measurement settings apply to the rest of test configurations.

**RESULTS**

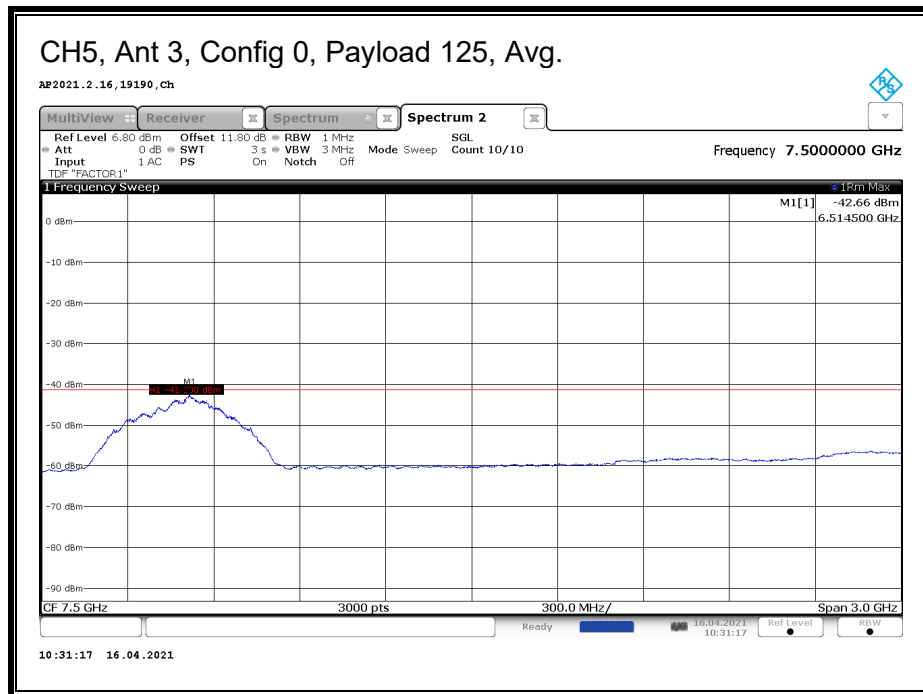
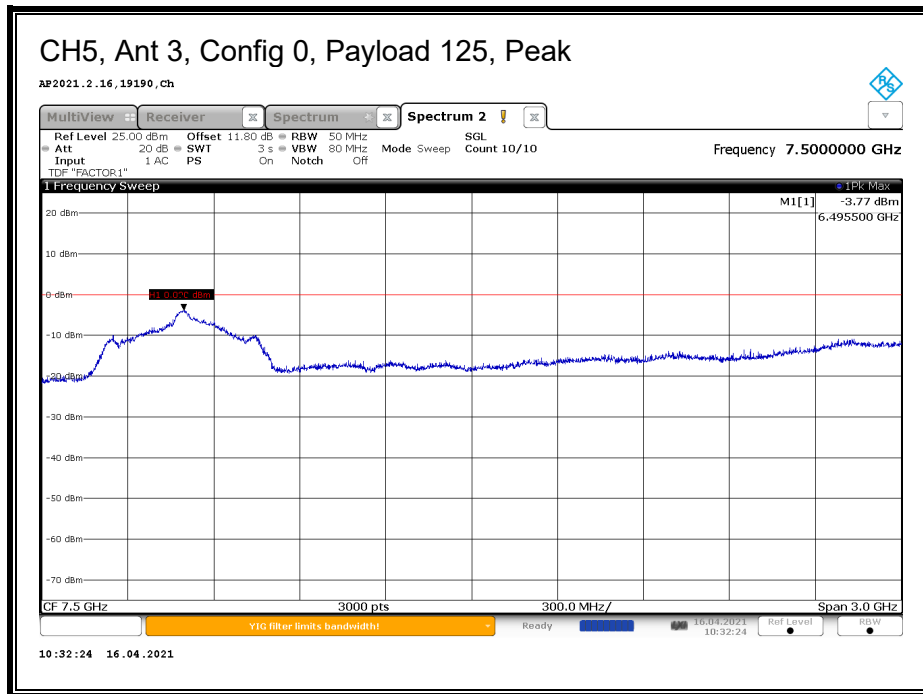
Employee IDs: 19419, 19190, 12471, 20737

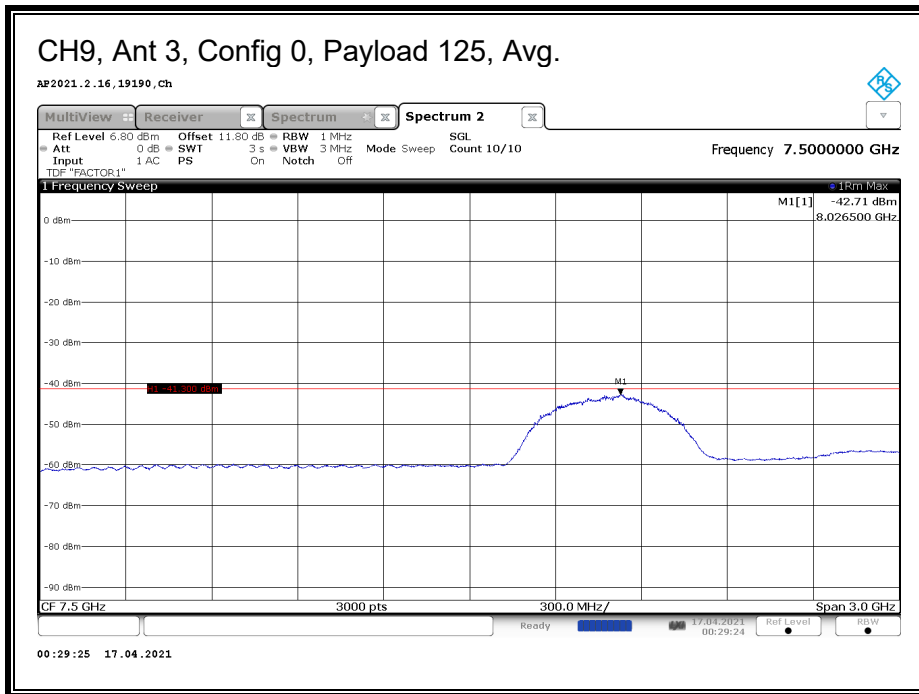
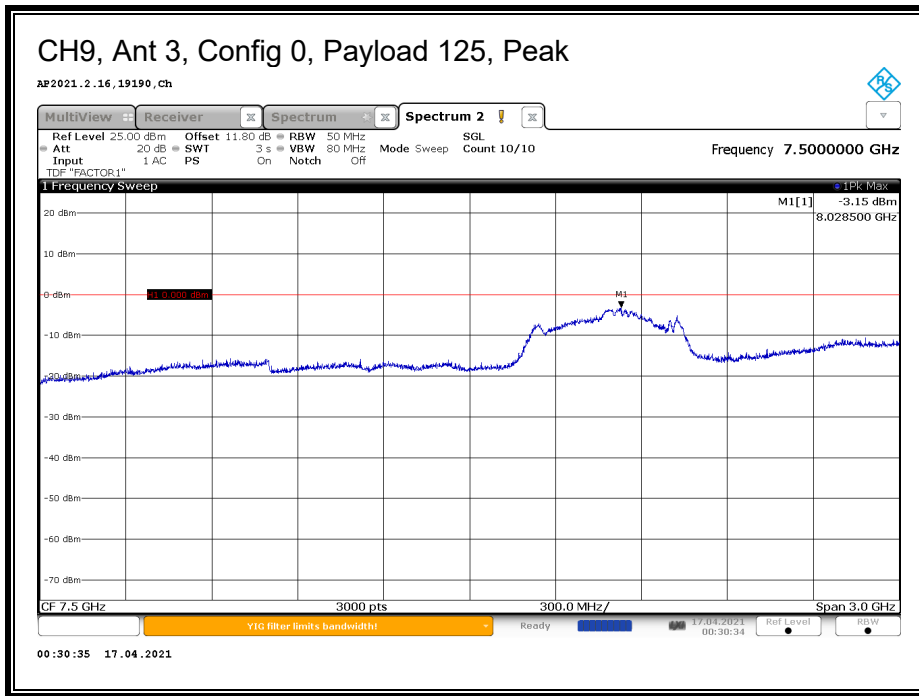
Location: Chamber D

Test Date: 04/15/2021 – 04/16/2021

ANT	CH	CONFIG	Payload	EUT Orientation	Meas. Ant. Polarity	Peak EIRP Power				Average EIRP Power			
						FM (GHz)	Peak Power (dBm/50MHz)	Peak Limit (0 dBm/50 MHz)	Margin (dB)	FM (GHz)	Avg Power (dBm/MHz)	Avg Limit (dBm/MHz)	Margin (dB)
0	9	0	125	Portrait	H	8.0615	-2.60	0	-2.60	8.0365	-42.56	-41.3	-1.26
0	9	1	125	Portrait	H	8.0615	-2.17	0	-2.17	8.0255	-42.58	-41.3	-1.28
0	9	2	125	Portrait	H	7.9885	-6.51	0	-6.51	8.0355	-42.62	-41.3	-1.32
0	9	3	125	Portrait	H	7.9855	-5.99	0	-5.99	8.0365	-42.55	-41.3	-1.25
0	9	4	0	Portrait	H	8.2225	-3.65	0	-3.65	8.0295	-42.31	-41.3	-1.01
0	9	5	0	Portrait	H	8.2225	-1.90	0	-1.90	8.0285	-42.42	-41.3	-1.12
1	9	0	125	Portrait	H	7.9975	-3.45	0	-3.45	8.0265	-42.81	-41.3	-1.51
1	9	1	125	Portrait	H	7.9755	-2.33	0	-2.33	8.0265	-42.56	-41.3	-1.26
1	9	2	125	Portrait	H	8.0015	-6.38	0	-6.38	8.0285	-42.89	-41.3	-1.59
1	9	3	125	Portrait	H	8.0255	-5.92	0	-5.92	8.0255	-42.53	-41.3	-1.23
1	9	4	0	Portrait	H	8.2255	-4.78	0	-4.78	8.0295	-42.41	-41.3	-1.11
1	9	5	0	Portrait	H	8.2245	-3.58	0	-3.58	8.0285	-42.68	-41.3	-1.38
2	5	0	125	Flatbed	V	6.4865	-4.27	0	-4.27	6.3445	-42.38	-41.3	-1.08
2	5	1	125	Flatbed	V	6.4835	-3.19	0	-3.19	6.3435	-42.50	-41.3	-1.20
2	5	2	125	Flatbed	V	6.4885	-7.38	0	-7.38	6.3445	-42.70	-41.3	-1.40
2	5	3	125	Flatbed	V	6.4895	-7.12	0	-7.12	6.3425	-42.48	-41.3	-1.18
2	5	4	0	Flatbed	V	6.2395	-5.03	0	-5.03	6.4075	-42.82	-41.3	-1.52
2	5	5	0	Flatbed	V	6.2455	-3.15	0	-3.15	6.3435	-42.37	-41.3	-1.07
2	9	0	125	Landscape	H	8.0625	-3.13	0	-3.13	8.0875	-42.73	-41.3	-1.43
2	9	1	125	Landscape	H	8.0975	-2.26	0	-2.26	8.0875	-42.33	-41.3	-1.03
2	9	2	125	Landscape	H	8.0515	-6.82	0	-6.82	8.0825	-42.57	-41.3	-1.27
2	9	3	125	Landscape	H	8.1015	-6.17	0	-6.17	8.0785	-42.52	-41.3	-1.22
2	9	4	0	Landscape	H	8.2225	-3.75	0	-3.75	8.0295	-42.57	-41.3	-1.27
2	9	5	0	Landscape	H	8.2245	-2.20	0	-2.20	8.0835	-42.63	-41.3	-1.33
3	5	0	125	Portrait	H	6.4955	-3.77	0	-3.77	6.5145	-42.66	-41.3	-1.36
3	5	1	125	Portrait	H	6.4845	-3.09	0	-3.09	6.5135	-42.52	-41.3	-1.22
3	5	2	125	Portrait	H	6.4845	-6.74	0	-6.74	6.5105	-42.61	-41.3	-1.31
3	5	3	125	Portrait	H	6.5005	-6.39	0	-6.39	6.5145	-42.52	-41.3	-1.22
3	5	4	0	Portrait	H	6.4855	-8.26	0	-8.26	6.5095	-42.38	-41.3	-1.08
3	5	5	0	Portrait	H	6.4855	-6.42	0	-6.42	6.5185	-42.61	-41.3	-1.31
3	9	0	125	Portrait	H	8.0285	-3.15	0	-3.15	8.0265	-42.71	-41.3	-1.41
3	9	1	125	Portrait	H	8.0255	-2.47	0	-2.47	8.0265	-42.71	-41.3	-1.41
3	9	2	125	Portrait	H	7.9865	-6.13	0	-6.13	8.0285	-42.55	-41.3	-1.25
3	9	3	125	Portrait	H	7.9835	-6.08	0	-6.08	8.0255	-42.61	-41.3	-1.31
3	9	4	0	Portrait	H	7.7255	-6.29	0	-6.29	8.0295	-42.57	-41.3	-1.27
3	9	5	0	Portrait	H	8.2235	-4.50	0	-4.50	8.0285	-42.73	-41.3	-1.43

**RESULTS**





## **9.4. CESSATION TIME**

### **LIMITS**

#### **FCC**

§15.519(a)(1) A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

#### **RSS-220**

Section 5.3.1 (b) The device is to transmit only when it is sending information to an associated receiver. The device shall cease transmission of information within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB device at least every 10 seconds or the UWB device shall cease transmitting any information other than periodic signals used for the establishment or re-establishment of a communication link with an associated receiver.

### **TEST PROCEDURES**

\* Initiator = EUT

\* Responder = associated receiver

Transmissions are monitored for two cases:

1. The Initiator ends the UWB link.
2. The Responder ends the UWB link.



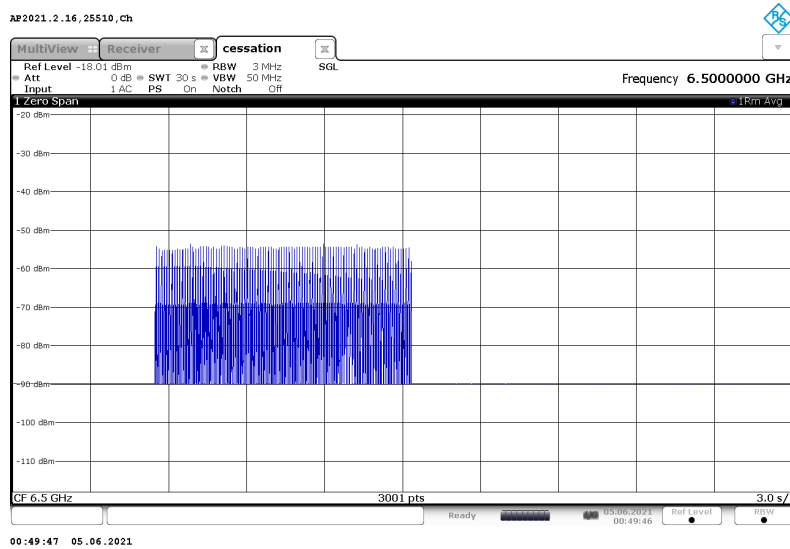
**RESULTS**

Employee ID: 19419  
Location: Chamber D  
Test Date: 06/04/2021

Signal Levels on all Plots

- Initiator is Low Amplitude
- Responder is High Amplitude

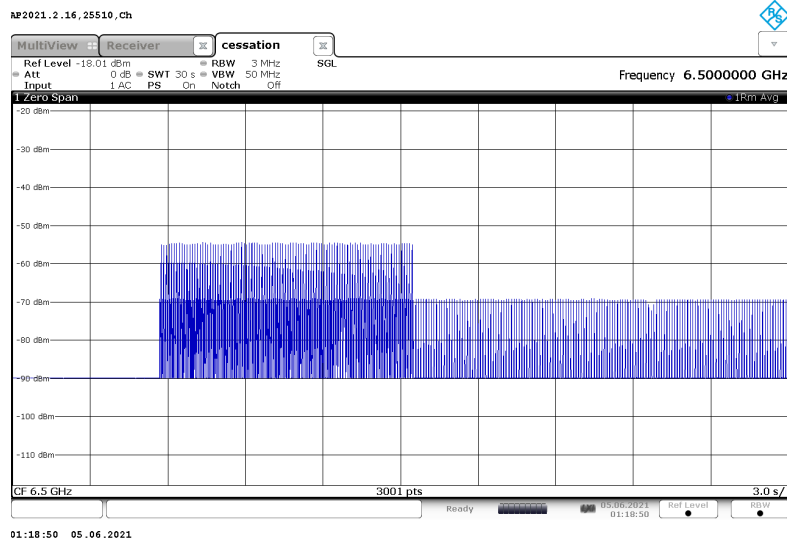
Case 1: Initiator ends the UWB link



**RESULT**

- All devices, including the Responder, cease transmissions

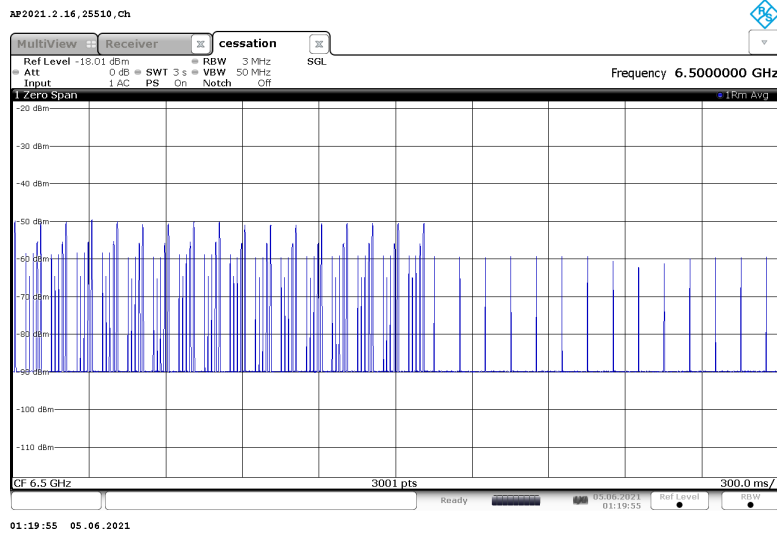
Case 2: Responder ends the UWB link



**RESULT**

- Responder ends the link, Initiator stops Acknowledgements but continues Polling.
- Responder ceases transmissions, does not respond to Polling Signals.

Zoom-in Plot during On-Off Transition



**RESULT**

- Shows Link Traffic, Acknowledgements and Polling Signals while Link is established
- Shows Polling Signals after Link has ended

## 9.5. EMISSIONS BELOW 960 MHz

### LIMITS

#### FCC

§15.519 (c) The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

#### 15.209 (a)

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3

#### RSS-220

Section 3.4 Radiated emissions at or below 960 MHz for all subclasses of UWB device shall not exceed the following limits. Measurements of radiated emissions at and below 960 MHz are to be made using a CISPR quasi-peak detector. CISPR measurement bandwidth specifications are to be used.

Frequency (MHz)	Field Strength (Microvolts/m)	Measurement Distance (Metres)	E.i.r.p. (dBmW)
0.009-0.490	2,400/F (F in kHz)	300	$10 \log (17.28 / F^2)$ (F in kHz)
0.490-1.705	24,000/F (F in kHz)	30	$10 \log (17.28 / F^2)$ (F in kHz)
1.705-30	30	30	-45.7
30-88	100	3	-55.2
88-216	150	3	-51.7
216-960	200	3	-49.2

**Note:** The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements employing an average emissions detector.

**TEST PROCEDURE**

ANSI C63.10 Clause 10.2

RSS-220 Annex

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 3m from the EUT.

For below 30 MHz testing, investigation was done on three antenna orientations: RX antenna Face-on, Face-off and horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-on and Face-off; therefore, all final tests were performed using these two orientations.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 meter open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

A final test is made at any frequencies at which emissions are found. During this final scan, the antenna is kept no further from the EUT than the maximum distance calculated for each band that yields a minimum system noise floor.

**RESULTS**

Employee IDs: 19419, 12471, 24544

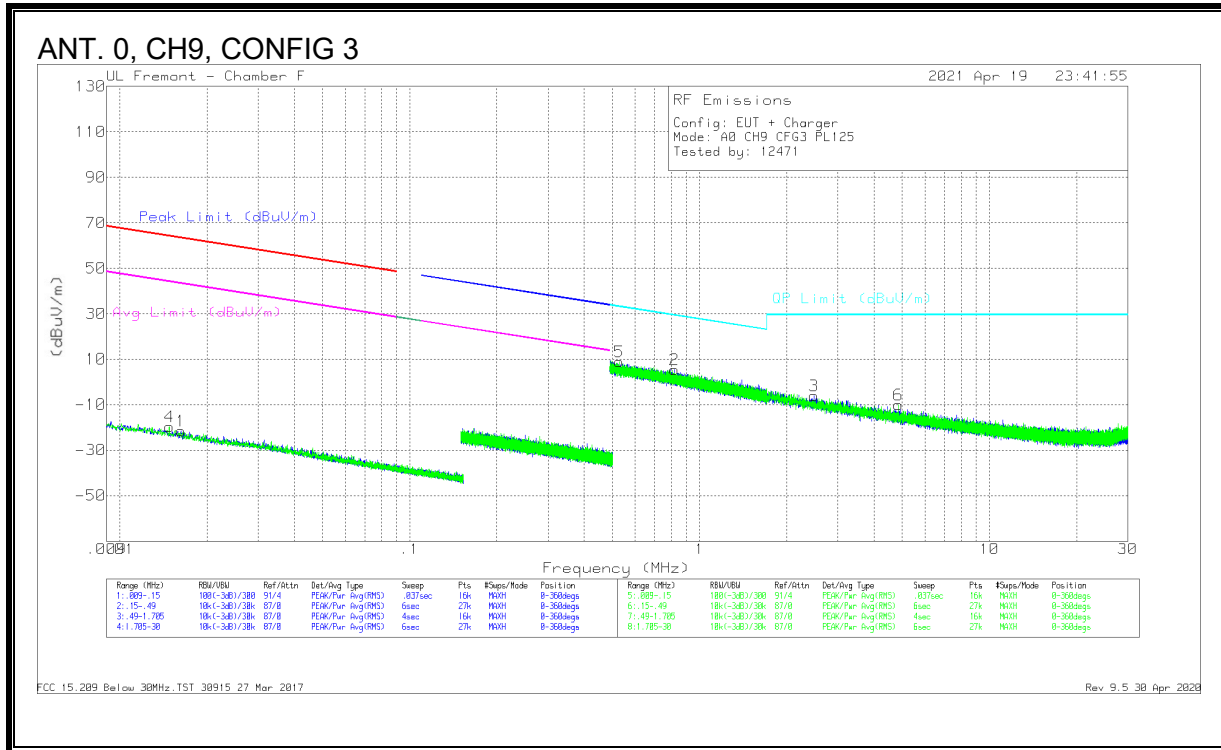
Location: Chamber F

Test Date: 04/19/2021 – 05/03/2021

**Emissions Summary**

Ant	CH	Config	Payload	Power Setting	Frequency Range	
					9 kHz - 30 MHz	30 - 960 MHz
0	9	3	125	Max	PASS	PASS
1	9	3	125	Max	PASS	PASS
2	5	3	125	Max	PASS	PASS
2	9	3	125	Max	PASS	PASS
3	5	3	125	Max	PASS	PASS
3	9	3	125	Max	PASS	PASS

9.5.1. EMISSIONS, 9 kHz – 30 MHz



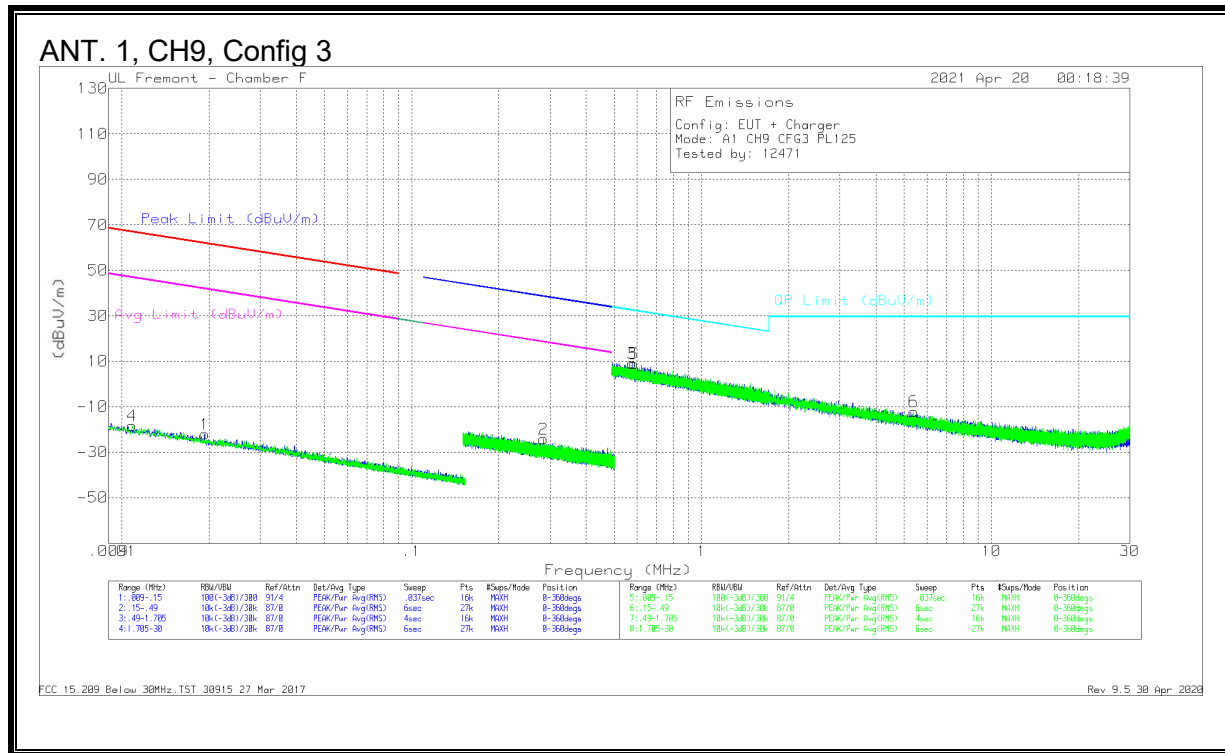
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.01625	42.06	Pk	16.5	0	-80	-21.44	63.37	-84.81	43.37	-84.81	0-360	On
4	.01482	43.36	Pk	17	0	-80	-19.64	64.17	-83.81	44.17	-83.81	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
2	.819	34.65	Pk	10.8	.1	-40	5.55	29.35	-23.8	0-360	On
3	2.48576	23.06	Pk	10.8	.2	-40	-5.94	29.5	-35.44	0-360	On
5	5.2929	37.97	Pk	10.8	.1	-40	8.87	33.13	-24.26	0-360	Off
6	4.84271	18.78	Pk	10.9	.2	-40	-10.12	29.5	-39.62	0-360	Off

Pk - Peak detector



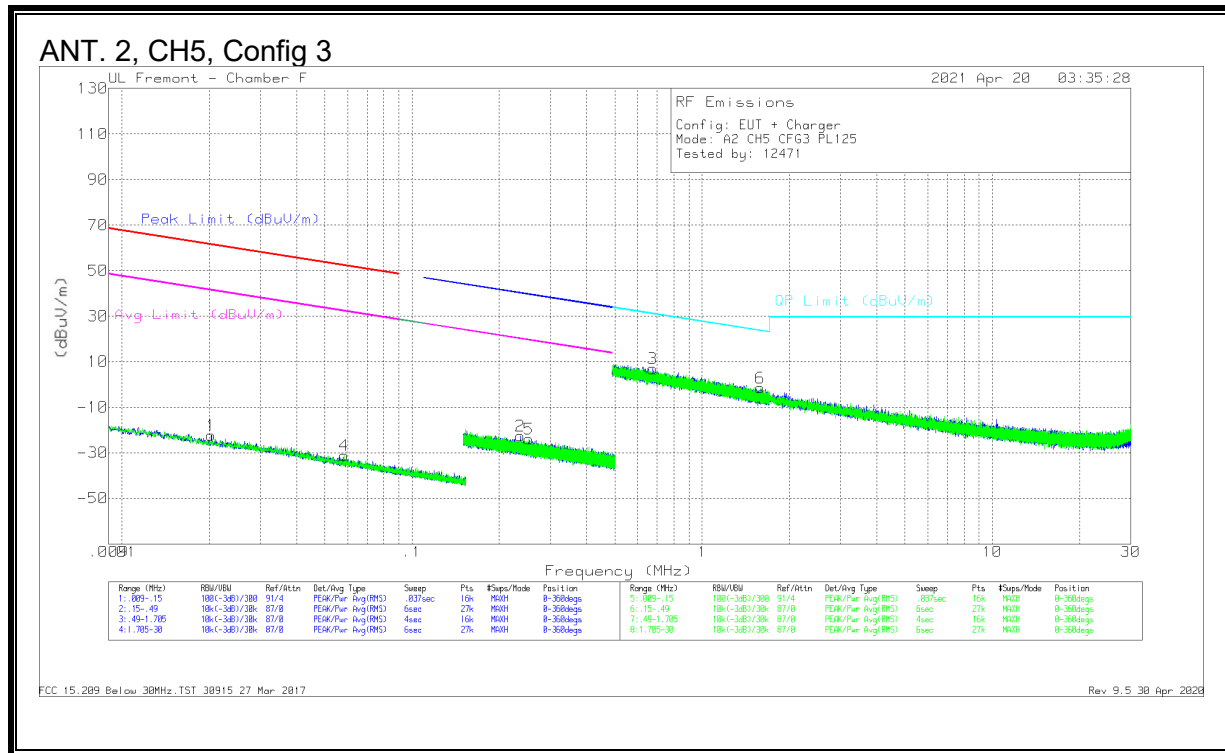
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.01931	42.58	Pk	15.3	0	-80	-22.12	61.87	-83.99	41.87	-63.99	-	-	-	-	0-360	On
2	.28563	44.7	Pk	11	1	-80	-24.2	-	-	-	-	38.5	-62.7	18.5	-42.7	0-360	On
4	.01086	43.06	Pk	18.6	0	-80	-18.34	66.87	-85.21	46.87	-65.21	-	-	-	-	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	.57664	38.23	Pk	10.8	.1	-40	9.13	32.39	-23.26	0-360	On
5	.585	38	Pk	10.8	.1	-40	8.9	32.27	-23.37	0-360	Off
6	5.40025	16.77	Pk	10.9	.3	-40	-12.03	29.5	-41.53	0-360	Off

Pk - Peak detector



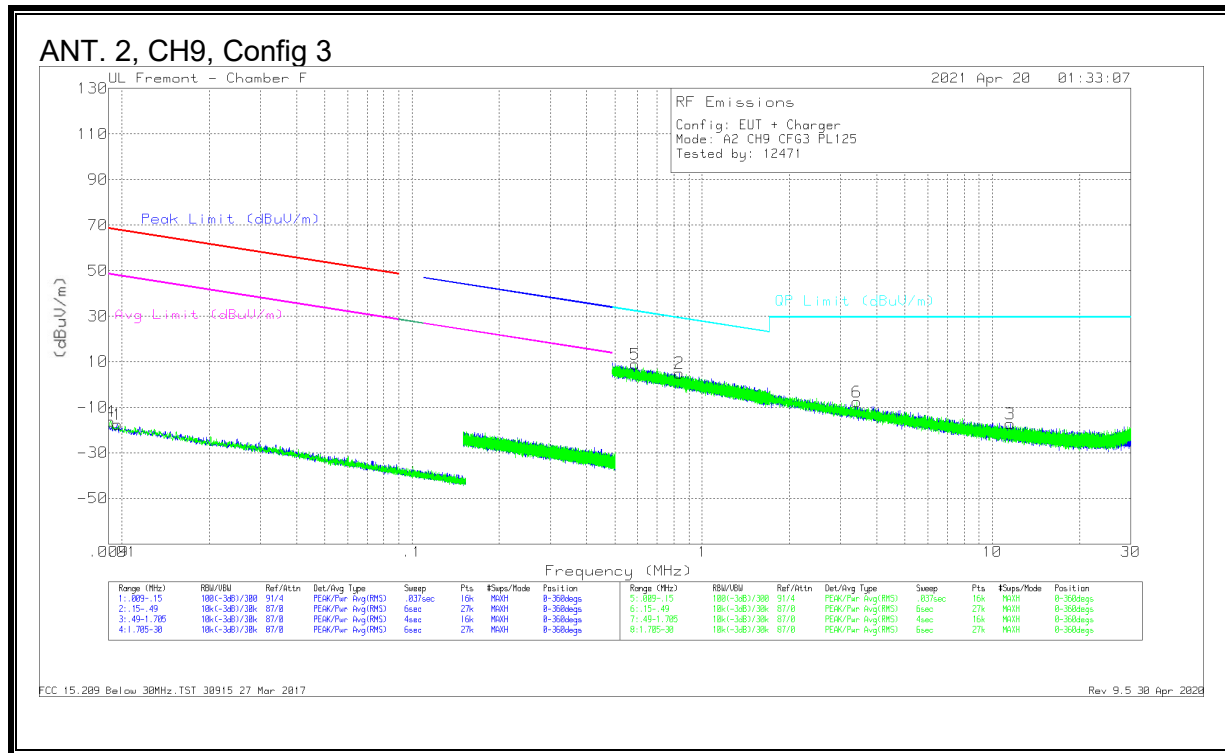
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.02036	42.73	Pk	15	0	-80	-22.27	61.41	-83.68	41.41	-63.68	-	-	20.13	-42.75	0-360	On
2	.23668	46.28	Pk	11	1	-80	-22.62	-	-	-	-	40.13	-62.75	20.13	-42.75	0-360	On
4	.05846	38.75	Pk	12.2	0	-80	-31.05	52.25	-83.3	32.25	-83.3	-	-	-	-	0-360	Off
5	.25261	45.09	Pk	11	-1	-80	-23.81	-	-	-	-	39.57	-63.38	19.57	-43.38	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	.67582	36.03	Pk	10.8	.1	-40	6.93	31.02	-24.09	0-360	On
6	1.58334	27.58	Pk	10.8	.1	-40	-1.52	23.64	-25.16	0-360	Off

Pk - Peak detector



Trace Markers

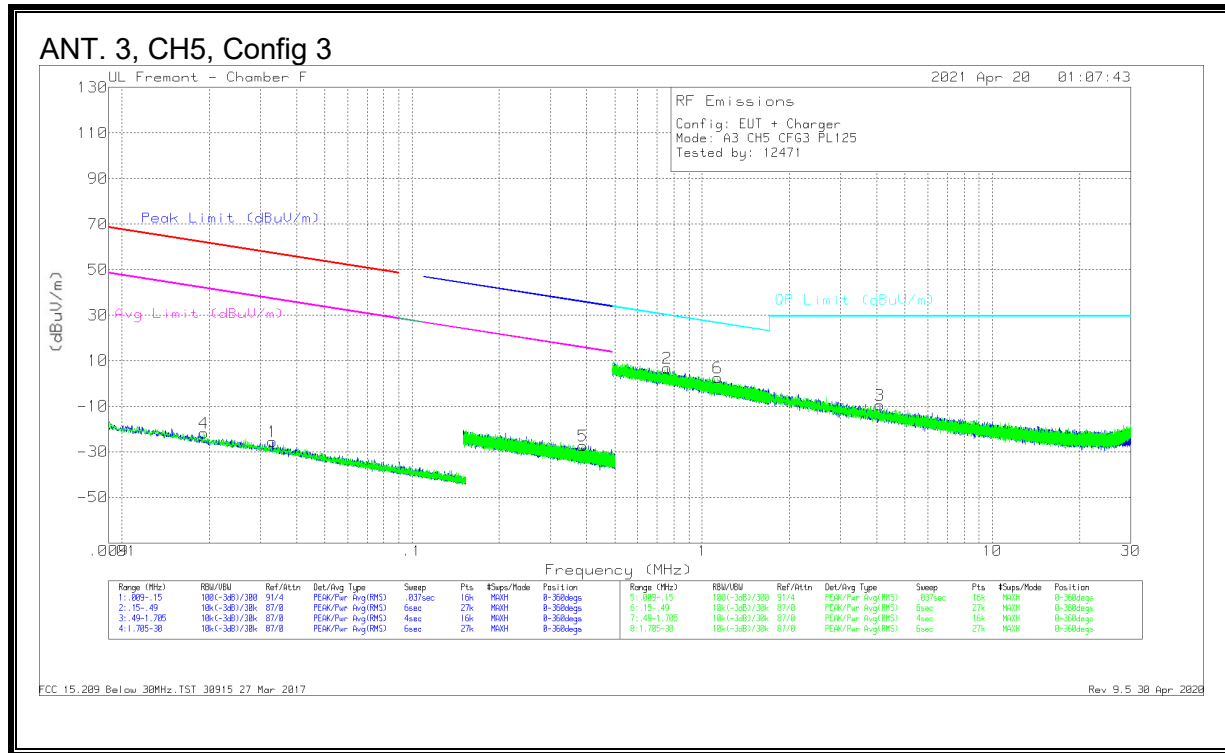
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.00967	43.35	Pk	19.2	0	-80	-17.45	67.88	-85.33	47.88	-65.33	0-360	On
4	.00914	44.06	Pk	19.7	0	-80	-16.24	68.36	-84.6	48.36	-64.6	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
2	83694	34.15	Pk	10.8	.1	-40	5.05	29.16	-24.11	0-360	On
3	11.52162	11.88	Pk	10.5	.4	-40	-17.22	29.5	-46.72	0-360	On
5	58865	38.1	Pk	10.8	.1	-40	9	32.21	-23.21	0-360	Off
6	3.40695	21.41	Pk	10.8	.2	-40	-7.59	29.5	-37.09	0-360	Off

Pk - Peak detector





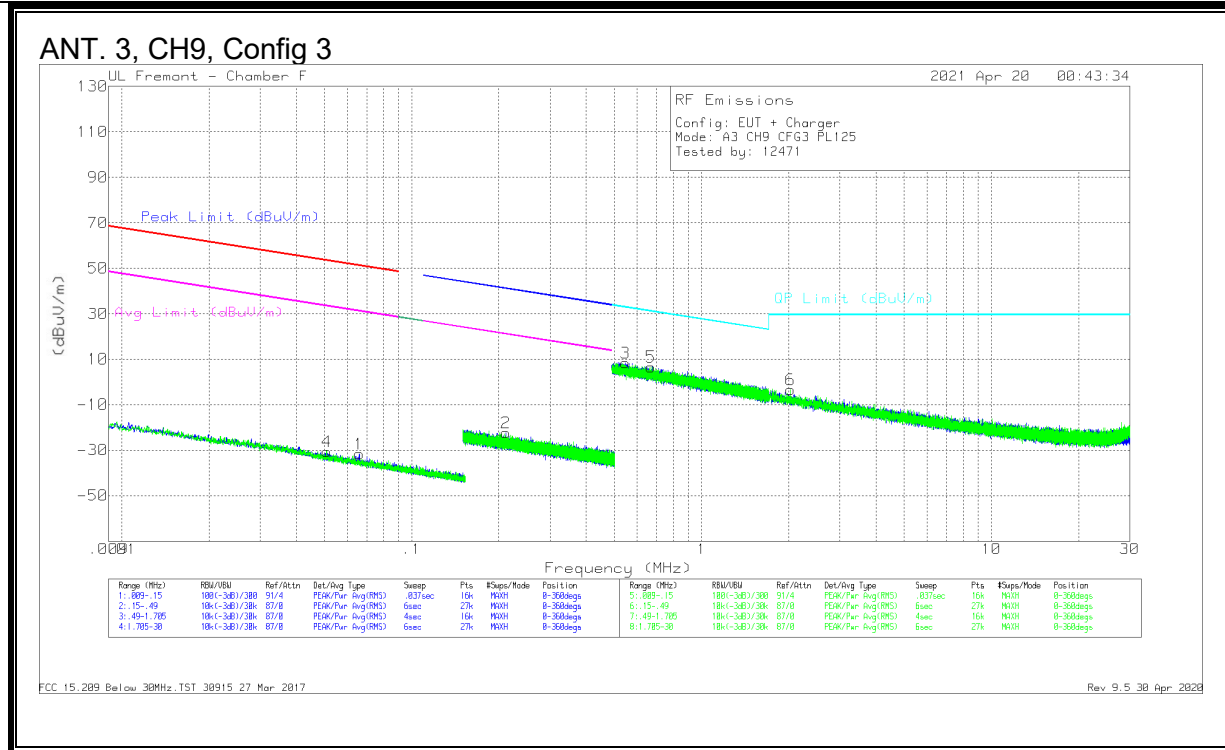
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.03312	40.56	Pk	13.9	0	-80	-25.54	57.18	-82.72	37.18	-62.72	-	-	-	-	0-360	On
4	.01919	42.93	Pk	15.3	0	-80	-21.77	61.92	-83.69	41.92	-63.69	-	-	-	-	0-360	Off
5	.38886	41.55	Pk	10.9	.1	-80	-27.45	-	-	-	-	35.81	-63.26	15.81	-43.26	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
2	.7595	35.84	Pk	10.8	.1	-40	6.74	30	-23.26	0-360	On
3	4.09339	19.34	Pk	10.9	.2	-40	-9.56	29.5	-39.06	0-360	On
6	1.12992	31.62	Pk	10.8	.1	-40	2.52	26.56	-24.04	0-360	Off

Pk - Peak detector



Trace Markers

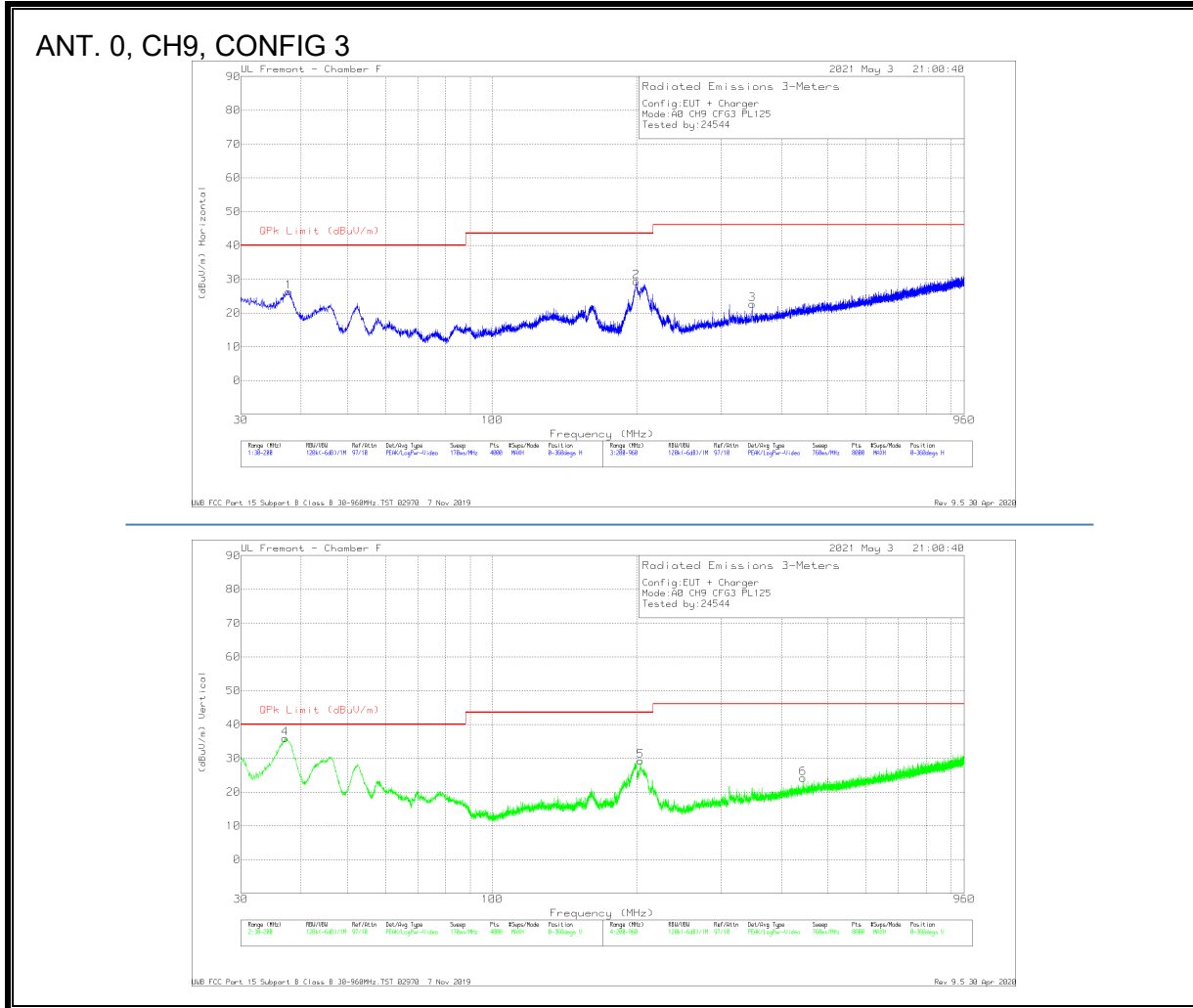
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.06601	36.27	Pk	12	0	-80	-31.73	51.19	-82.92	31.19	-62.92	-	-	-	-	0-360	On
2	.21146	46.39	Pk	11.1	.1	-80	-22.41	-	-	-	-	41.11	-63.52	21.11	-43.52	0-360	On
4	.05092	37.09	Pk	12.4	0	-80	-30.51	53.45	-83.96	33.45	-63.96	-	-	-	-	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	54639	37.52	Pk	10.8	.1	-40	8.42	32.86	-24.44	0-360	On
5	66951	35.75	Pk	10.8	.1	-40	6.65	31.1	-24.45	0-360	Off
6	2.02883	25.65	Pk	10.8	.2	-40	-3.35	29.5	-32.85	0-360	Off

Pk - Peak detector

9.5.2. EMISSIONS, 30 - 960 MHz

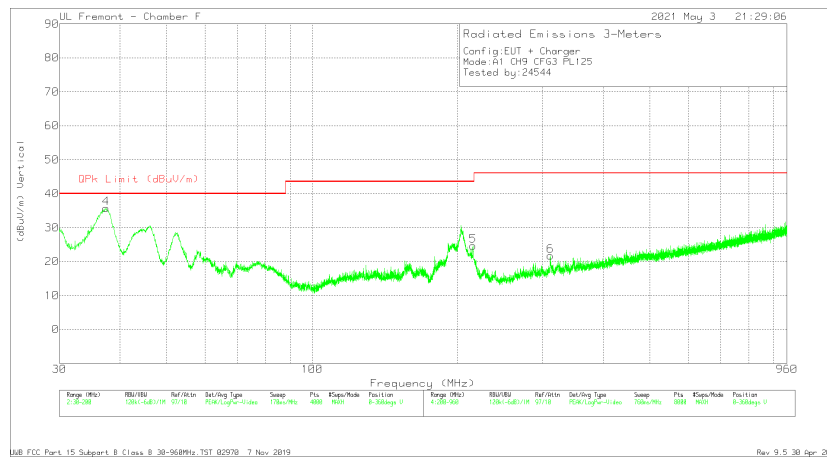
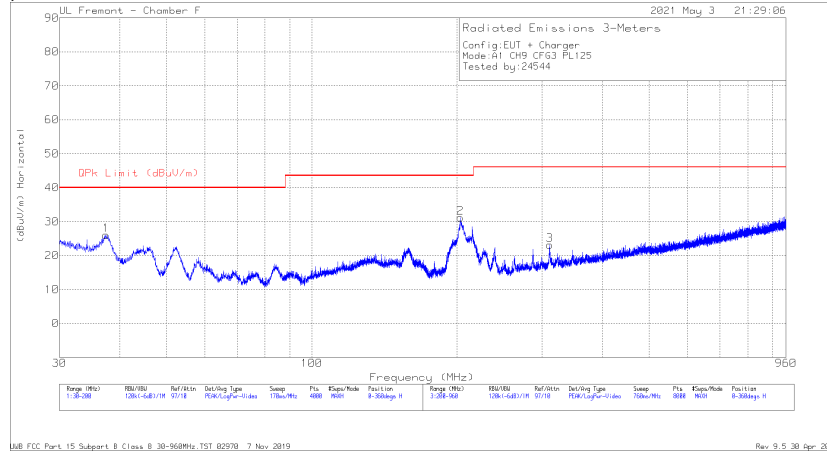


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	37.6945	35.54	Pk	22.6	-31.8	26.34	40	-13.66	0-360	300	H
2	199.3213	41.38	Pk	18.5	-30.5	29.38	43.52	-14.14	0-360	100	H
4	37.0568	44.59	Pk	23.1	-31.8	35.89	40	-4.11	0-360	100	V
	52.3025	42.84	Qp	13.4	-31.6	24.64	40	-15.36	352	117	V
3	347.4586	31.81	Pk	20.5	-29.7	22.61	46.02	-23.41	0-360	99	H
5	203.6105	41.63	Pk	18	-30.4	29.23	43.52	-14.29	0-360	99	V
6	443.4207	31.06	Pk	22.3	-29.2	24.16	46.02	-21.86	0-360	99	V

Pk - Peak detector  
Qp - Quasi-Peak detector

ANT. 1, CH9, CONFIG 3



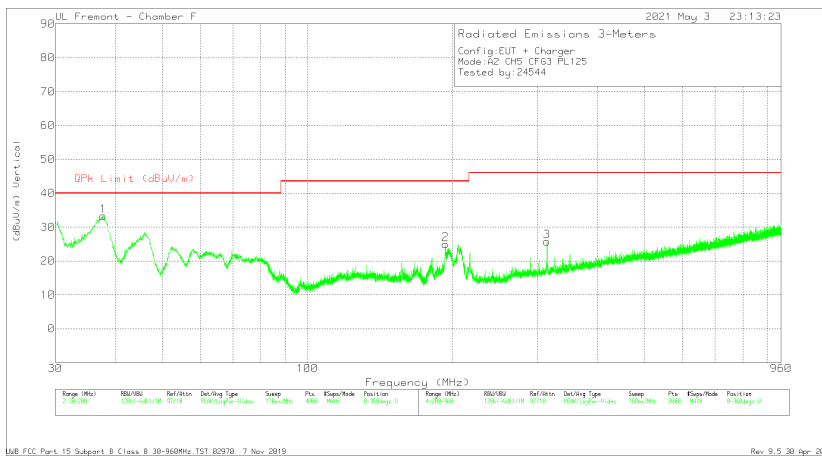
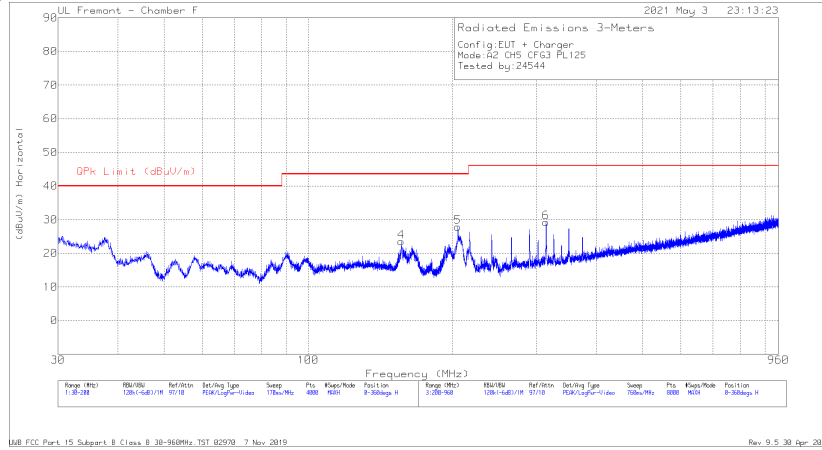
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	37.4394	35.06	Pk	22.8	-31.8	26.06	40	-13.94	0-360	301	H
4	37.4394	44.79	Pk	22.8	-31.8	35.79	40	-4.21	0-360	100	V
	52.4352	42.36	Qp	13.4	-31.7	24.06	40	-15.94	347	108	V
2	203.0404	43.23	Pk	18.3	-30.4	31.13	43.52	-12.39	0-360	200	H
3	311.069	33.21	Pk	19.8	-29.9	23.11	46.02	-22.91	0-360	99	H
5	215.1069	38.31	Pk	16.8	-30.4	24.71	43.52	-18.81	0-360	99	V
6	311.2591	31.78	Pk	19.8	-29.9	21.68	46.02	-24.34	0-360	99	V

Pk - Peak detector

Qp - Quasi-Peak detector

ANT.2, CH5, CONFIG 3

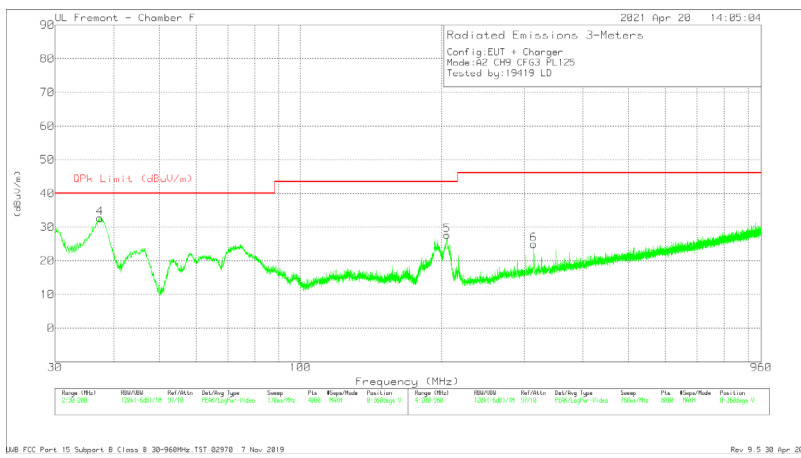
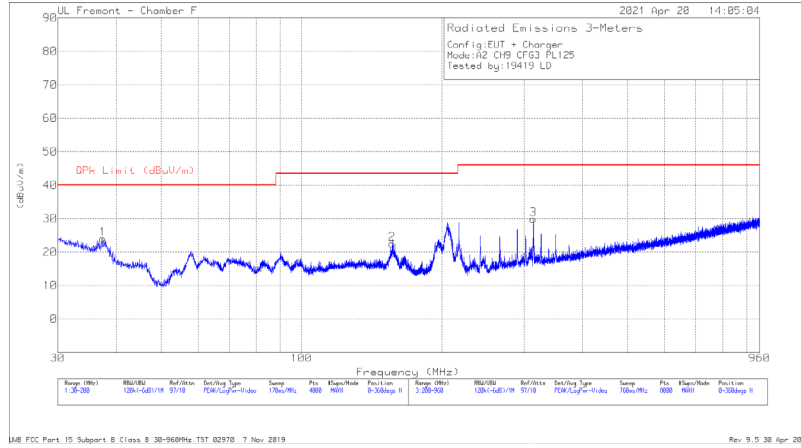


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	156.5127	36.3	Pk	18	-30.8	23.5	43.52	-20.02	0-360	200	H
1	37.6945	42.47	Pk	22.6	-31.8	33.27	40	-6.73	0-360	100	V
2	193.3273	38.08	Pk	17.3	-30.4	24.98	43.52	-18.54	0-360	100	V
5	205.4157	40.98	Pk	17.3	-30.4	27.88	43.52	-15.64	0-360	99	H
6	313.9194	39.1	Pk	19.9	-29.8	29.2	46.02	-16.82	0-360	99	H
3	313.9194	35.65	Pk	19.9	-29.8	25.75	46.02	-20.27	0-360	99	V

PK - Peak detector

ANT. 2, CH9, CONFIG 3

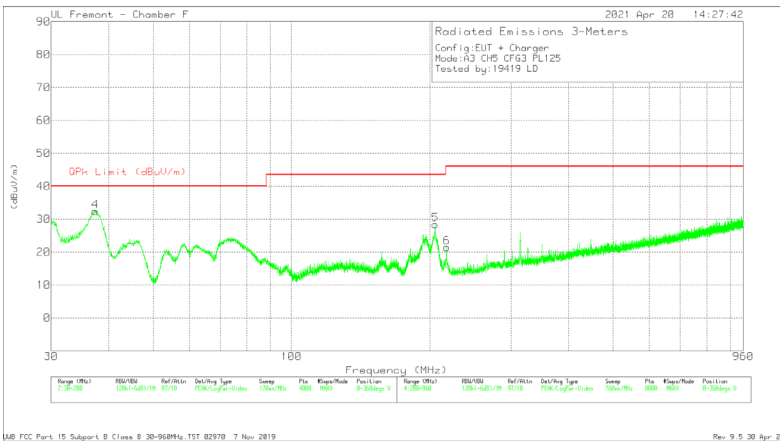
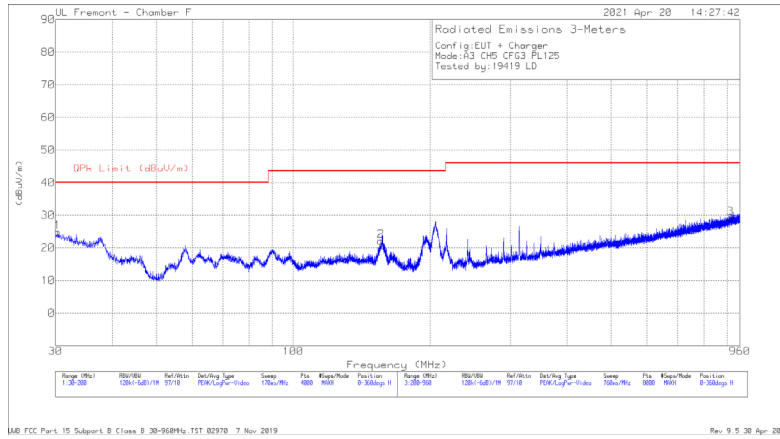


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	37.4819	32.99	Pk	22.8	-31.8	23.99	40	-16.01	0-360	400	H
2	156.2577	35.19	Pk	18.1	-30.8	22.49	43.52	-21.03	0-360	201	H
4	37.3969	41.68	Pk	22.8	-31.8	32.68	40	-7.32	0-360	100	V
3	314.2994	39.77	Pk	19.9	-29.8	29.87	46.02	-16.15	0-360	99	H
5	205.3207	40.72	Pk	17.3	-30.4	27.62	43.52	-15.9	0-360	99	V
6	314.2994	34.84	Pk	19.9	-29.8	24.94	46.02	-21.08	0-360	201	V

Pk - Peak detector

ANT. 3, CH5, CONFIG 3

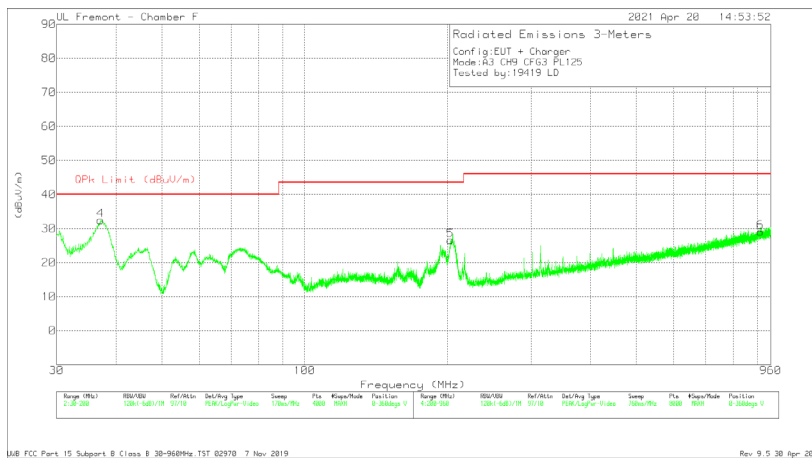
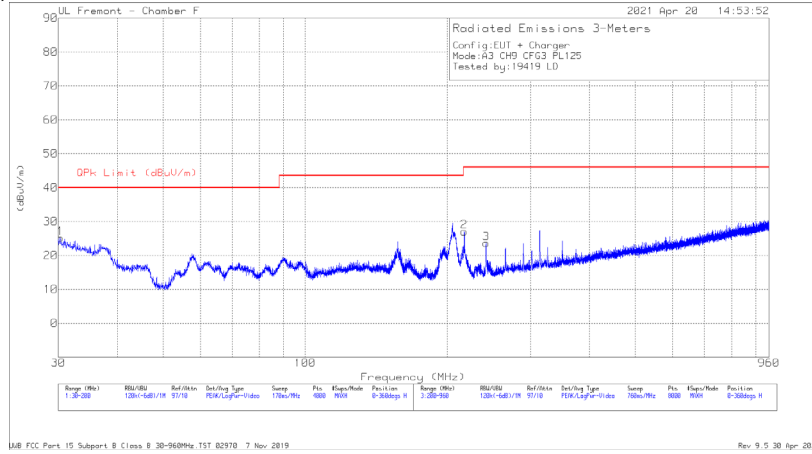


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.2976	28.88	Pk	27.9	-31.9	24.88	40	-15.12	0-360	301	H
2	155.8751	34.87	Pk	18.1	-30.8	22.17	43.52	-21.35	0-360	201	H
4	37.4394	41.42	Pk	22.8	-31.8	32.42	40	-7.58	0-360	100	V
3	915.0603	27.55	Pk	28.2	-26.6	29.15	46.02	-16.87	0-360	301	H
5	205.4157	41.52	Pk	17.3	-30.4	28.42	43.52	-15.1	0-360	99	V
6	217.4822	34.95	Pk	16.8	-30.3	21.45	46.02	-24.57	0-360	99	V

Pk - Peak detector

ANT. 3, CH9, CONFIG 3



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.2976	29.14	Pk	27.9	-31.9	25.14	40	-14.86	0-360	201	H
4	37.1418	41.23	Pk	23	-31.8	32.43	40	-7.57	0-360	100	V
2	217.1972	40.56	Pk	16.8	-30.3	27.06	46.02	-18.96	0-360	99	H
3	241.6153	36.18	Pk	17.6	-30.2	23.58	46.02	-22.44	0-360	99	H
5	202.9454	38.65	Pk	18.3	-30.4	26.55	43.52	-16.97	0-360	99	V
6	912.97	27.43	Pk	28.2	-26.6	29.03	46.02	-16.99	0-360	99	V

Pk - Peak detector



**9.6. AVERAGE EMISSIONS ABOVE 960 MHz****LIMITS****FCC**

15.519 (c)

Frequency in MHz	EIRP in dBm
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

§15.519 (d) In addition to the radiated emission limits specified in the table in paragraph (c) of this section, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency in MHz	EIRP in dBm
1164-1240	-85.3
1559-1610	-85.3

**RSS-220**

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

<b>Hand-held (Outdoor) Communication, Measurement, Location Sensing, and Tracking Devices</b>	
Frequency	E.i.r.p. in a Resolution Bandwidth of 1 MHz
960-1 610 MHz	-75.3 dBm
1.61-4.75 GHz	-70.0 dBm
4.75-10.6 GHz	-41.3 dBm
Above 10.6 GHz	-61.3 dBm

Section 5.3.1 (e) In addition to the limits specified in paragraph (d) of this section, radiated emissions shall not exceed the following average limits when measured using a resolution bandwidth greater than or equal to 1 kHz. The measurements shall demonstrate compliance with the stated limits at whatever resolution bandwidth is used.

Frequency	E.i.r.p. in a Resolution Bandwidth of no less than 1 kHz
1 164-1 240 MHz	-85.3 dBm
1 559-1 610 MHz	-85.3 dBm

**TEST PROCEDURE**

ANSI C63.10 Clause 10.3

RSS-220 Annex

Exploratory measurements for all frequency ranges are performed with the measurement antenna at close distances to the EUT as described in ANSI C63.10 6.6.4.2. Where emissions are observed the measurement antenna is then positioned at a height of 1.5m and a distance of 0.5m from the EUT and final measurements are made at the frequencies observed in the exploratory scans using the alternative measurement procedures detailed in ANSI C63.10 section 6.6.5. If no emissions are observed, a plot is made at a test distance of 0.5m from the EUT to show the measurement system noise floor.

**PROCEDURE FOR 0.96 TO 6 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A low pass filter with a cut off frequency of 6 GHz is used to suppress the fundamental and perform measurement for 0.96 - 6 GHz.

**RESULTS FOR 6 GHz TO 9 GHz**

The 6 - 9 GHz frequency band is covered in Section 9.3.

**PROCEDURE FOR 9 GHz TO 18 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A high pass filter with pass band frequency beyond 9 GHz is used to suppress the fundamental and perform measurement for 9 - 18 GHz.

**PROCEDURE FOR 1.164 TO 1.240 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

RBW = 120 kHz & VBW = 360 kHz were used at pre-scan.

A low pass filter with a cut off frequency of 6 GHz is used to suppress the fundamental and perform measurement for 1.164 – 1.240 GHz.

**PROCEDURE FOR 1.559 TO 1.610 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

RBW = 120 kHz & VBW = 360 kHz were used at pre-scan.

A low pass filter with a cut off frequency of 6 GHz is used to suppress the fundamental and perform measurement for 1.559 – 1.610 GHz.

**PROCEDURE FOR 18 GHz TO 40 GHz**

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A final test is made at any frequencies at which emissions are found. During this final scan, the antenna is kept no further from the EUT than the maximum distance calculated for each band that yields a minimum system noise floor.

Distance Correction Factor from 3m to 0.5m =  $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

**RESULTS**

Employee IDs: 24544, 12471, 19190

Location: Chamber F

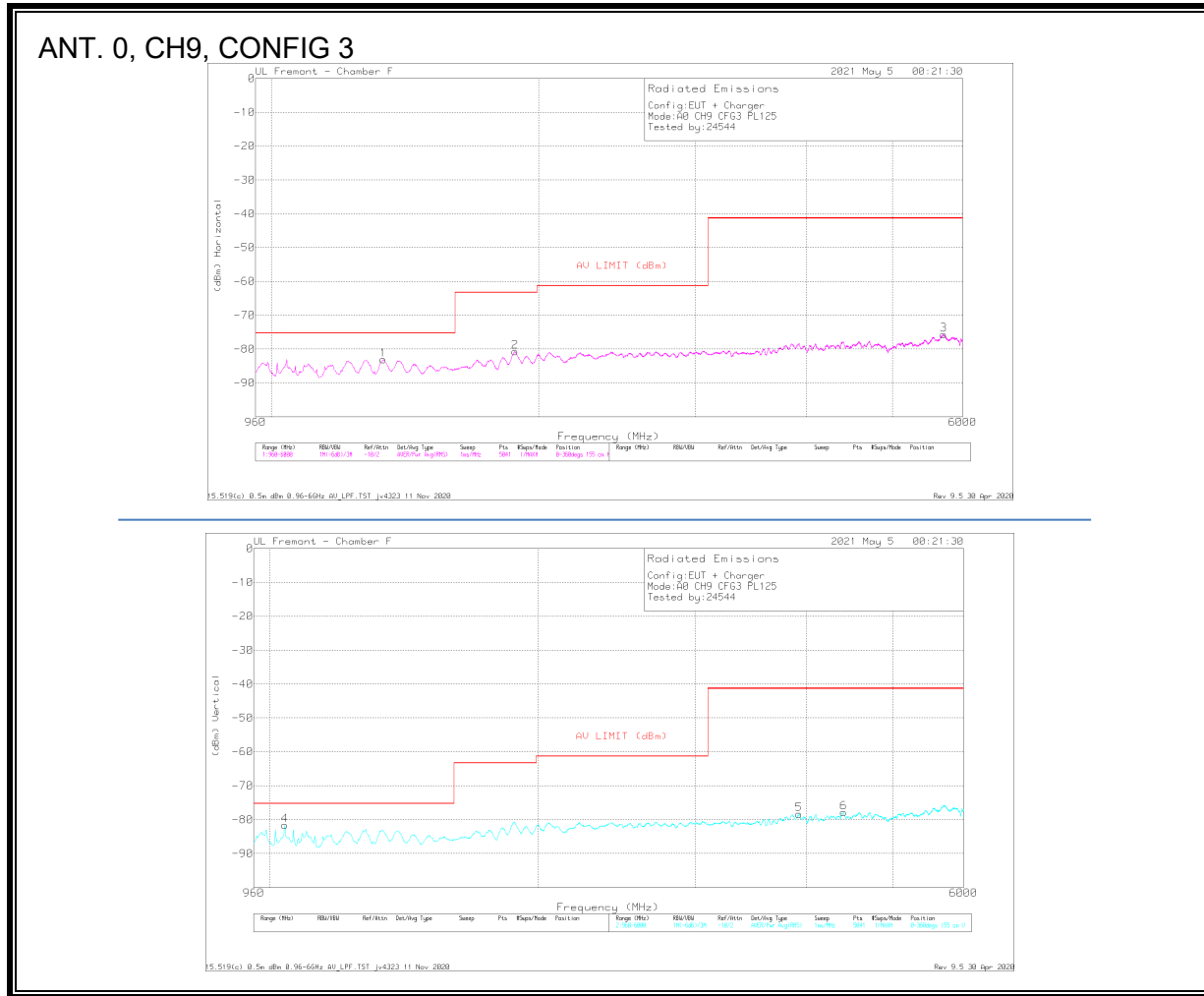
Test Date: 04/16/2021 – 05/05/2021

**Average Emissions Summary**

Ant	CH	Config	Payload	Power Setting	1164 - 1240 MHz	1559 - 1610 MHz	0.96 - 18 GHz	18 - 26 GHz	26 - 40 GHz
0	9	3	125	Max	PASS	PASS	PASS	PASS	PASS
1	9	3	125	Max	PASS	PASS	PASS	PASS	PASS
2	5	3	125	Max	PASS	PASS	PASS	PASS	PASS
2	9	3	125	Max	PASS	PASS	PASS	PASS	PASS
3	5	3	125	Max	PASS	PASS	PASS	PASS	PASS
3	9	3	125	Max	PASS	PASS	PASS	PASS	PASS

9.6.1. AVERAGE EMISSIONS, 0.96 – 6 GHz

9.6.1.1. FCC15.519 (C)



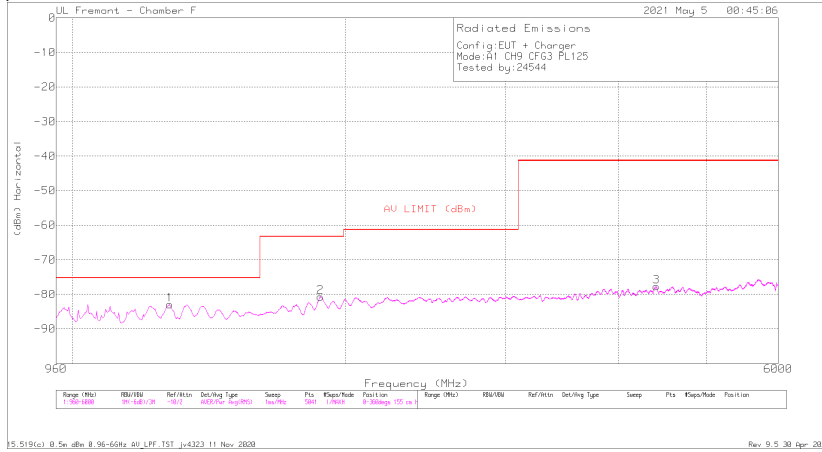
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dBm)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1337	-63.11	RMS	29	-45.3	-15.6	11.8	.1	-83.11	-75.3	-7.81	286	155	H
2	1881	-62.82	RMS	30.6	-45	-15.6	11.8	.3	-80.72	-63.3	-17.42	308	155	H
3	5714	-67.38	RMS	35	-41.5	-15.6	11.8	.2	-75.68	-41.3	-34.38	330	155	H
4	1040	-59.55	RMS	26.8	-45.3	-15.6	11.8	.2	-81.65	-75.3	-6.35	163	155	V
5	3922	-65.92	RMS	33.7	-42.8	-15.6	11.8	.5	-78.32	-41.3	-37.02	97	155	V
6	4403	-64.72	RMS	33.8	-43.6	-15.6	11.8	.5	-77.82	-41.3	-36.52	163	155	V

RMS - RMS detection

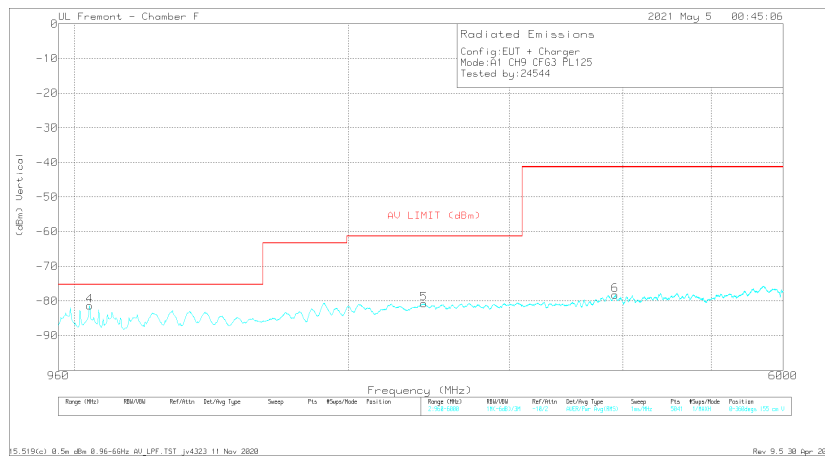
\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 1, CH9, CONFIG 3



15.519(c) 0.5m dBm 0.96-6000 40\_LPF\_15T j=4323 11 Nov. 2020

Rev. 9.5.30 Apr. 2020



15.519(c) 0.5m dBm 0.96-6000 40\_LPF\_15T j=4323 11 Nov. 2020

Rev. 9.5.30 Apr. 2020

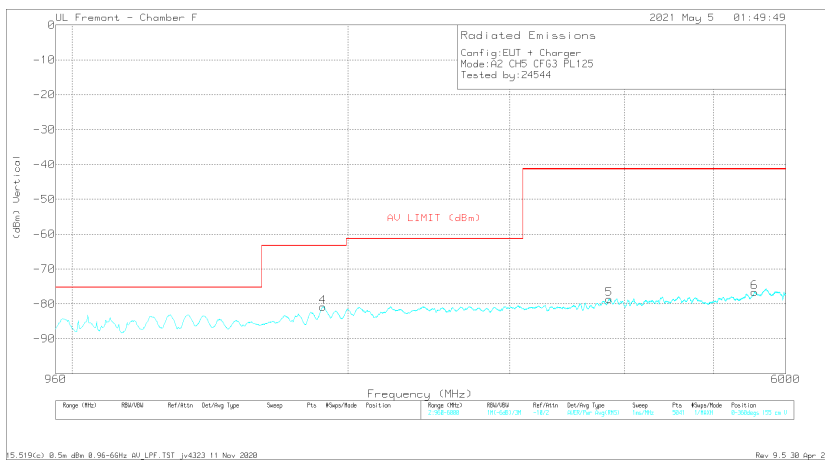
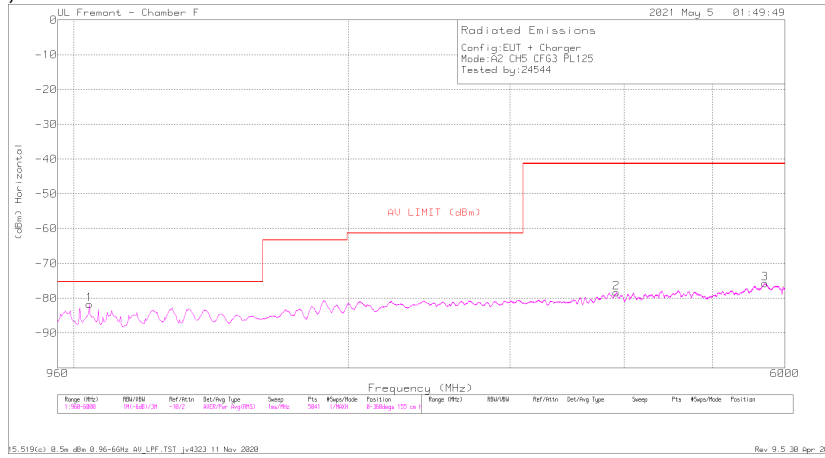
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1281	-62.96	RMS	29	-45.4	-15.6	11.8	.2	-82.96	-75.3	-7.66	197	155	H
2	1878	-62.95	RMS	30.7	-45	-15.6	11.8	.3	-80.75	-63.3	-17.45	88	155	H
3	4404	-64.6	RMS	33.8	-43.6	-15.6	11.8	.5	-77.7	-41.3	-36.4	154	155	H
4	1039	-59.28	RMS	26.8	-45.3	-15.6	11.8	.2	-81.38	-75.3	-6.08	163	155	V
5	2420	-64.11	RMS	32.2	-45.3	-15.6	11.8	.3	-80.71	-61.3	-19.41	163	155	V
6	3925	-66.08	RMS	33.7	-42.5	-15.6	11.8	.5	-78.18	-41.3	-36.88	31	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



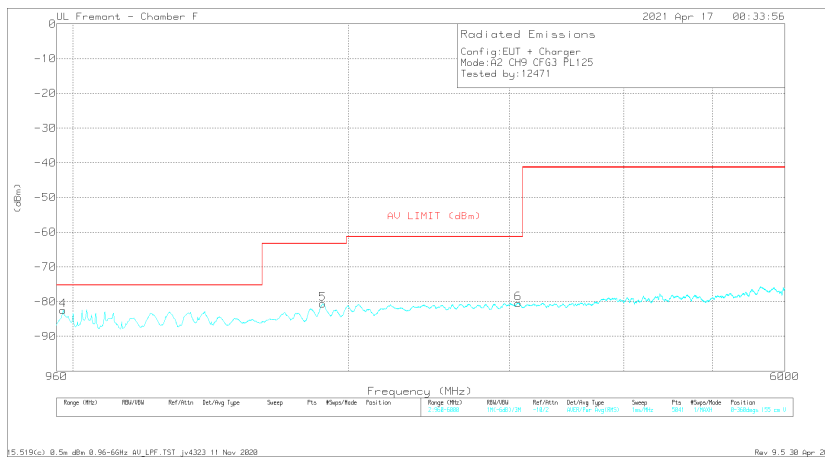
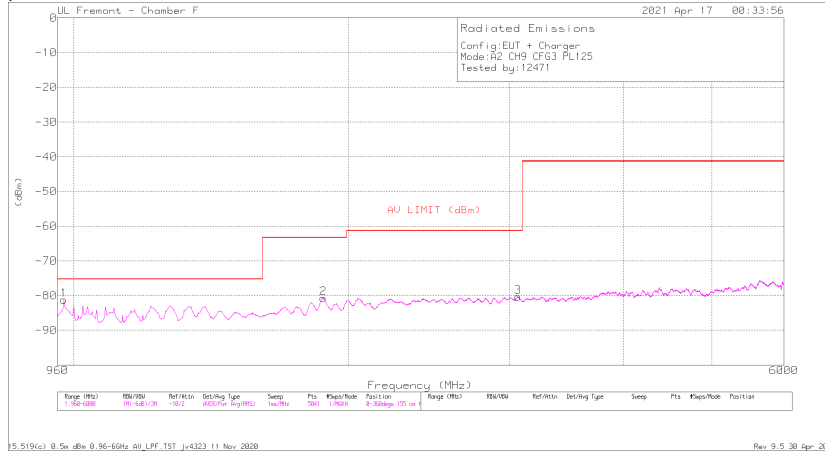
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LFP (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1040	-59.66	RMS	26.8	-45.3	-15.6	11.8	.2	-81.76	-75.3	-6.46	329	155	H
2	3925	-66.29	RMS	33.7	-42.5	-15.6	11.8	.5	-78.39	-41.3	-37.09	132	155	H
3	5706	-67.26	RMS	34.9	-41.6	-15.6	11.8	.2	-75.76	-41.3	-34.46	0	155	H
4	1877	-63.11	RMS	30.8	-45	-15.6	11.8	.3	-80.81	-63.3	-17.51	229	155	V
5	3853	-65.76	RMS	33.7	-43.3	-15.6	11.8	.5	-78.66	-41.3	-37.36	251	155	V
6	5548	-67.47	RMS	34.7	-42	-15.6	11.8	.2	-76.57	-41.3	-35.27	141	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3



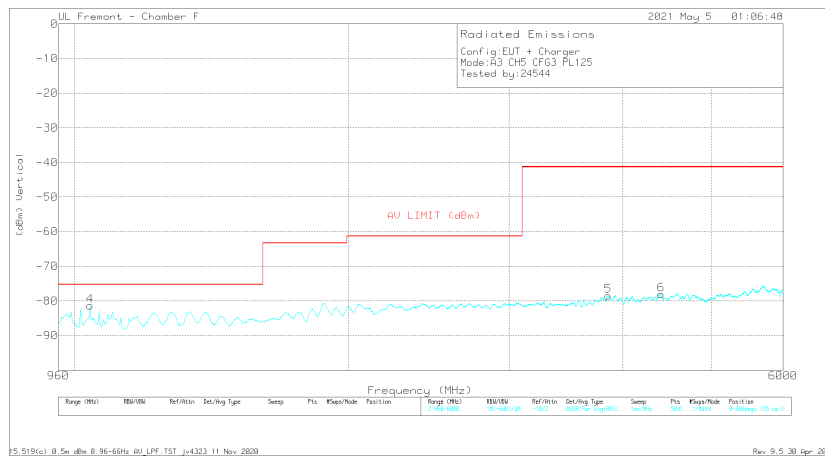
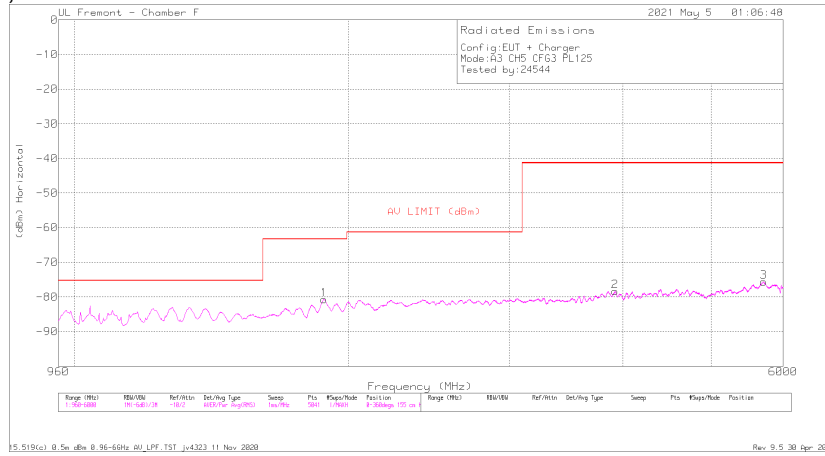
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LFP (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	976	-60.34	RMS	27.8	-45.1	-15.6	11.8	.2	-81.24	-75.3	-5.94	141	155	H
2	1877	-62.97	RMS	30.8	-45	-15.6	11.8	.3	-80.67	-63.3	-17.37	317	155	H
3	3066.5	-65.8	RMS	33	-44.1	-15.6	11.8	.3	-80.4	-61.3	-19.1	97	155	H
4	976	-61.57	RMS	27.8	-45.1	-15.6	11.8	.2	-82.47	-75.3	-7.17	176	155	V
5	1875	-62.84	RMS	30.8	-45.1	-15.6	11.8	.3	-80.64	-63.3	-17.34	66	155	V
6	3069	-65.83	RMS	33	-44.1	-15.6	11.8	.3	-80.43	-61.3	-19.13	330	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 3, CH5, CONFIG 3



Trace Markers

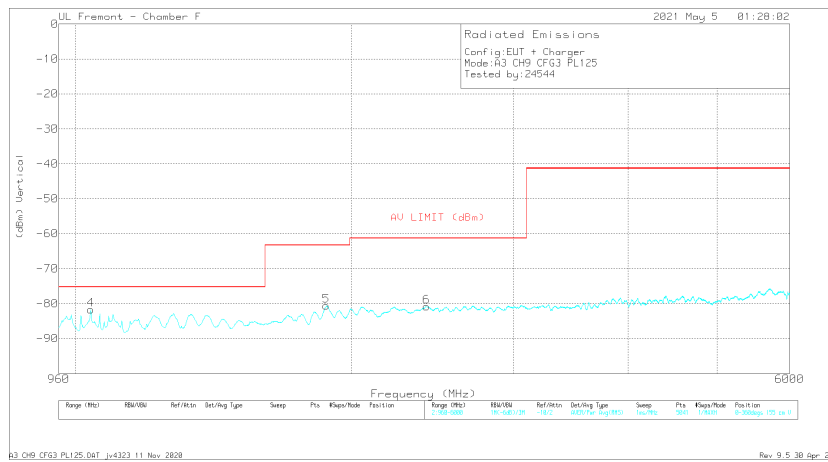
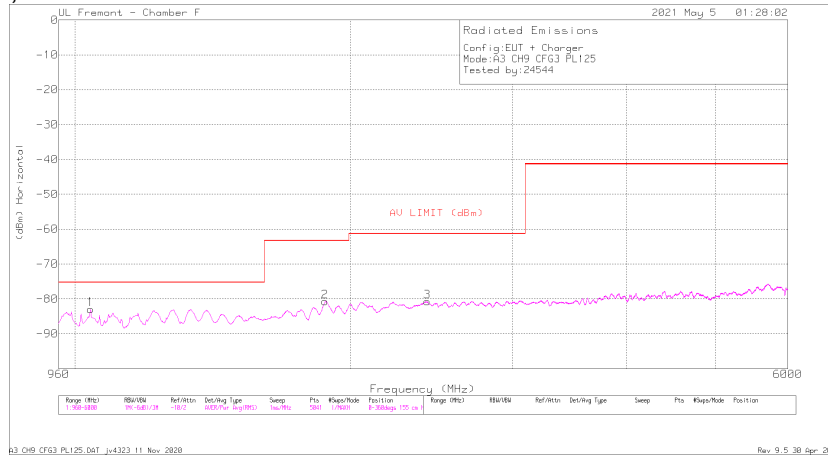
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1879	-62.93	RMS	30.7	-45	-15.6	11.8	.3	-80.73	-63.3	-17.43	330	155	H
2	3923	-66.08	RMS	33.7	-42.7	-15.6	11.8	.5	-78.38	-41.3	-37.08	88	155	H
3	5714	-67.32	RMS	35	-41.5	-15.6	11.8	2	-75.62	-41.3	-34.32	242	155	H
4	1040	-59.26	RMS	26.8	-45.3	-15.6	11.8	2	-81.36	-75.3	-6.06	163	155	V
5	3856	-65.66	RMS	33.8	-43.3	-15.6	11.8	.5	-78.46	-41.3	-37.16	295	155	V
6	4408	-64.91	RMS	33.8	-43.7	-15.6	11.8	.5	-78.11	-41.3	-36.81	97	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.



ANT. 3, CH9, CONFIG 3



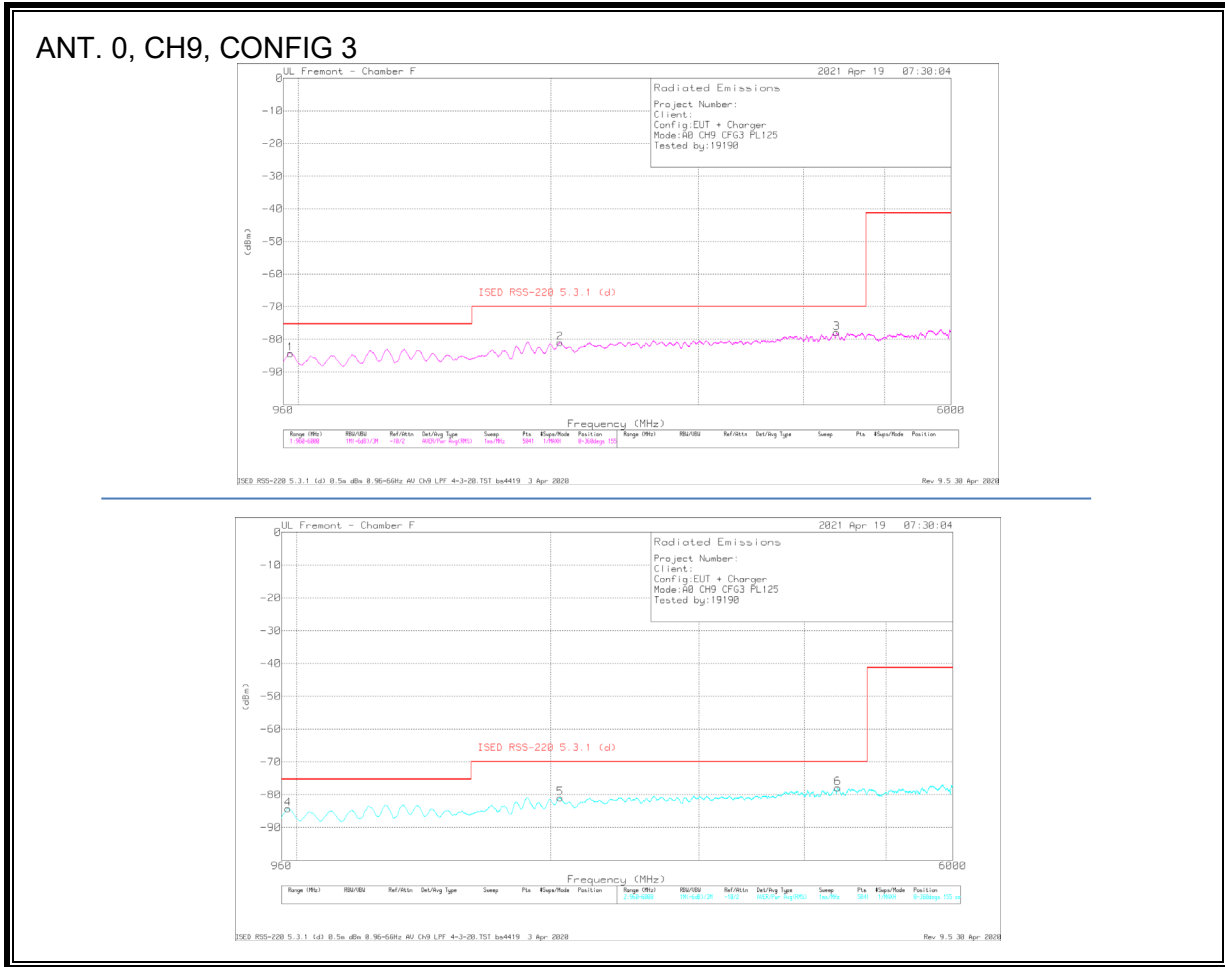
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LFP (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1040	-60.81	RMS	26.8	-45.3	-15.6	11.8	.2	-82.91	-75.3	-7.61	308	155	H
2	1876	-63	RMS	30.8	-45	-15.6	11.8	.3	-80.7	-63.3	-17.4	242	155	H
3	2424	-64.18	RMS	32.2	-45.3	-15.6	11.8	.3	-80.78	-61.3	-19.48	198	155	H
4	1040	-59.6	RMS	26.8	-45.3	-15.6	11.8	.2	-81.7	-75.3	-6.4	163	155	V
5	1878	-62.84	RMS	30.7	-45	-15.6	11.8	.3	-80.64	-63.3	-17.34	97	155	V
6	2413	-64.21	RMS	32.2	-45.3	-15.6	11.8	.3	-80.81	-61.3	-19.51	53	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 6 GHz to suppress CH9 fundamental signal.

9.6.1.2. RSS-220 5.3.1 (d)



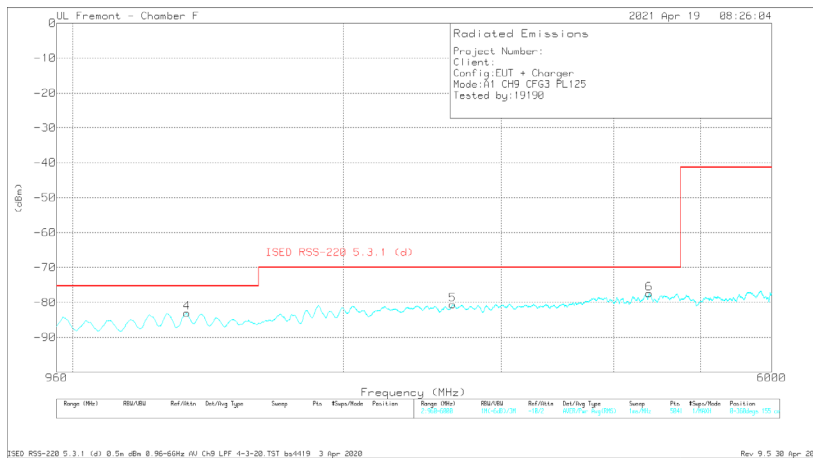
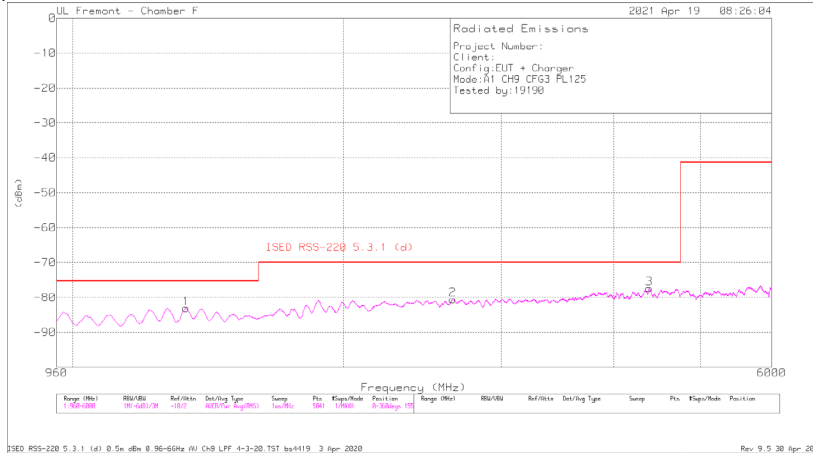
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	979	-63.19	RMS	27.7	-45.1	-15.6	11.8	.1	-84.29	-75.3	-8.99	153	155	H
2	2051	-63.36	RMS	31.3	-45.4	-15.6	11.8	.3	-80.96	-70	-10.96	264	155	H
3	4383	-65.19	RMS	33.9	-43.2	-15.6	11.8	.4	-77.89	-70	-7.89	44	155	H
4	977	-63.25	RMS	27.8	-45.1	-15.6	11.8	.1	-84.25	-75.3	-8.95	339	155	V
5	2054	-63.34	RMS	31.3	-45.4	-15.6	11.8	.3	-80.94	-70	-10.94	75	155	V
6	4383	-65.15	RMS	33.9	-43.2	-15.6	11.8	.4	-77.85	-70	-7.85	141	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to surpress CH9 fundamental signal.

ANT. 1, CH9, CONFIG 3



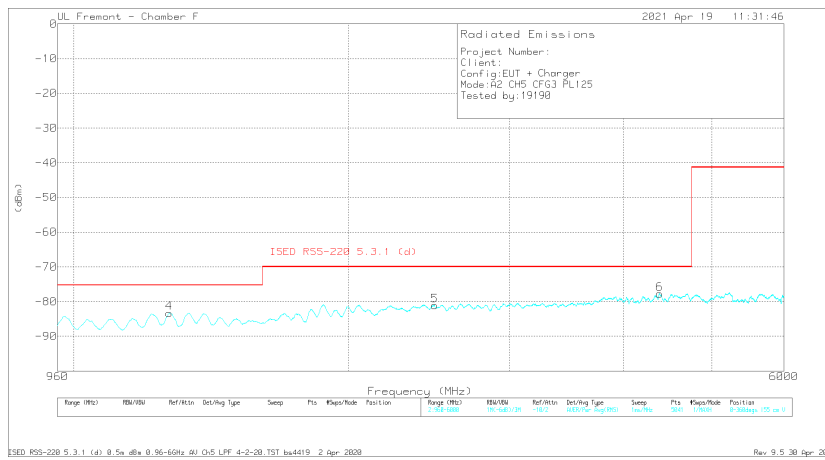
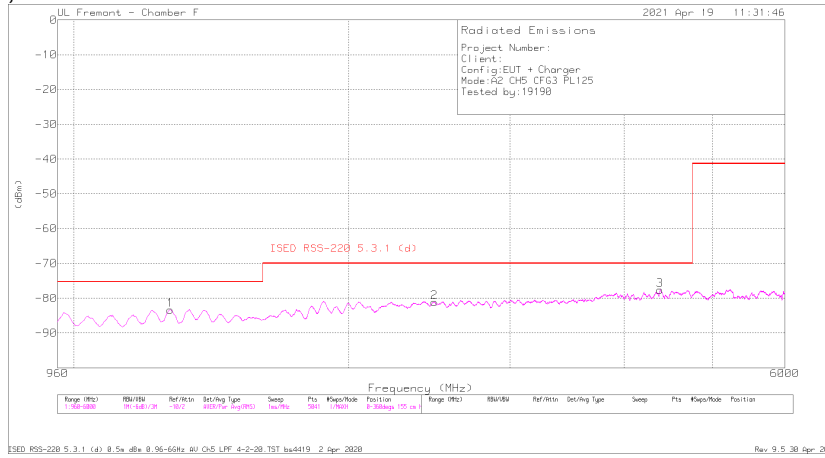
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1338	-63.38	RMS	29.1	-45.3	-15.6	11.8	.3	-83.08	-75.3	-7.78	175	155	H
2	2850	-64.55	RMS	32.5	-45.1	-15.6	11.8	.4	-80.55	-70	-10.55	22	155	H
3	4383	-64.69	RMS	33.9	-43.2	-15.6	11.8	.4	-77.39	-70	-7.39	329	155	H
4	1340	-63.37	RMS	29.1	-45.2	-15.6	11.8	.3	-82.97	-75.3	-7.67	229	155	V
5	2649	-64.51	RMS	32.5	-45.2	-15.6	11.8	.4	-80.61	-70	-10.61	229	155	V
6	4383	-64.73	RMS	33.9	-43.2	-15.6	11.8	.4	-77.43	-70	-7.43	52	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



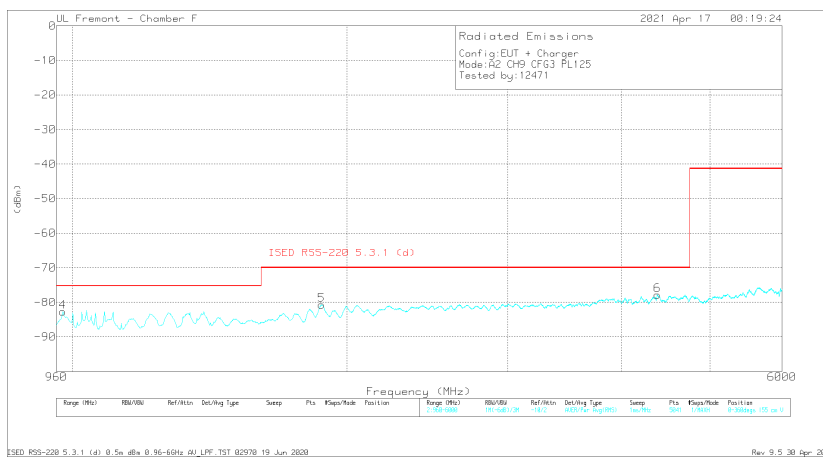
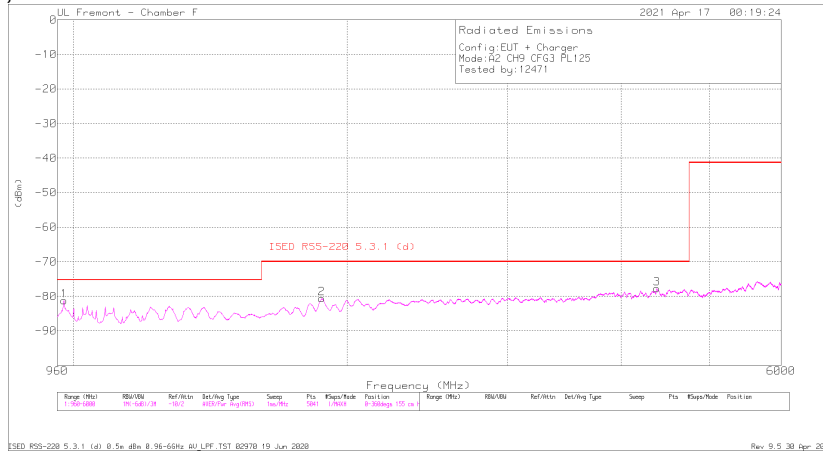
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1275	-63.42	RMS	29	-45.3	-15.6	11.8	.2	-83.32	-75.3	-8.02	53	155	H
2	2481	-65.06	RMS	32.4	-44.9	-15.6	11.8	.3	-81.06	-70	-11.06	118	155	H
3	4380	-64.85	RMS	33.9	-43.3	-15.6	11.8	.4	-77.65	-70	-7.65	251	155	H
4	1273	-63.38	RMS	29	-45.3	-15.6	11.8	.2	-83.28	-75.3	-7.98	132	155	V
5	2485	-65.08	RMS	32.4	-44.9	-15.6	11.8	.3	-81.08	-70	-11.08	154	155	V
6	4384	-64.99	RMS	33.9	-43.3	-15.6	11.8	.4	-77.79	-70	-7.79	132	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3



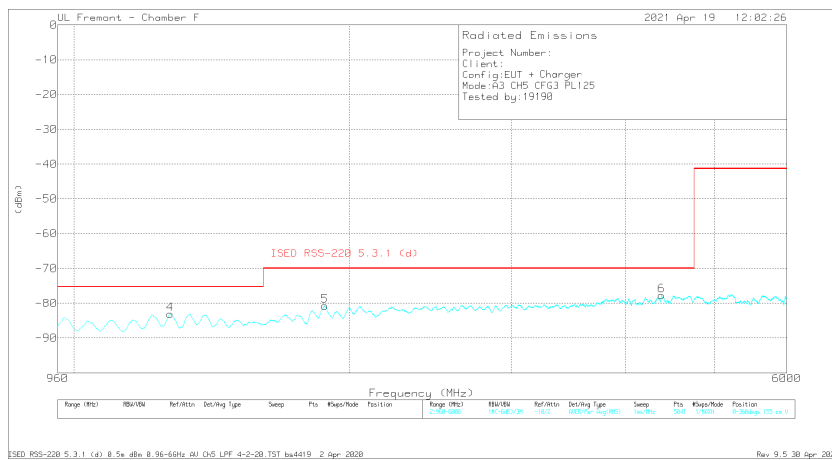
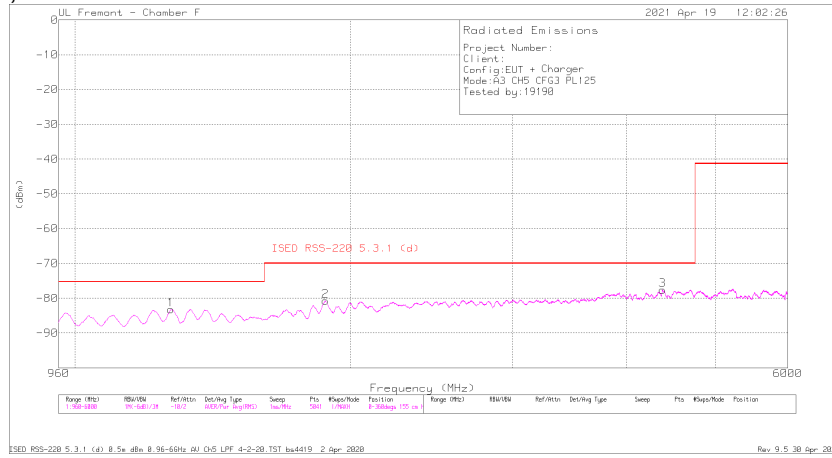
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LFP (dB)	Corrected Reading (dBm)	ISED R55-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	977	-60.34	RMS	27.8	-45.1	-15.6	11.8	.2	-81.24	-75.3	-5.94	198	155	H
2	1876	-62.94	RMS	30.8	-45	-15.6	11.8	.3	-80.64	-70	-10.64	22	155	H
3	4379	-65.03	RMS	33.9	-43.3	-15.6	11.8	.5	-77.73	-70	-7.73	44	155	H
4	976	-61.83	RMS	27.8	-45.1	-15.6	11.8	.2	-82.73	-75.3	-7.43	163	155	V
5	1875	-62.94	RMS	30.8	-45.1	-15.6	11.8	.3	-80.74	-70	-10.74	273	155	V
6	4381	-65.21	RMS	33.9	-43.2	-15.6	11.8	.5	-77.81	-70	-7.81	317	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 3, CH5, CONFIG 3



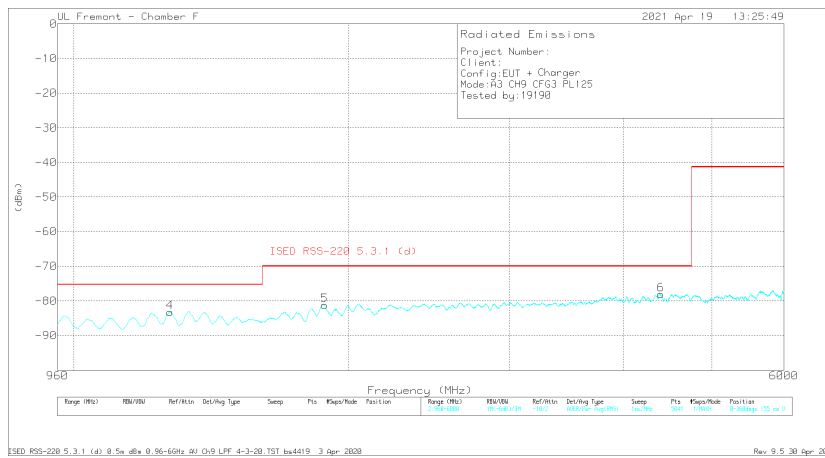
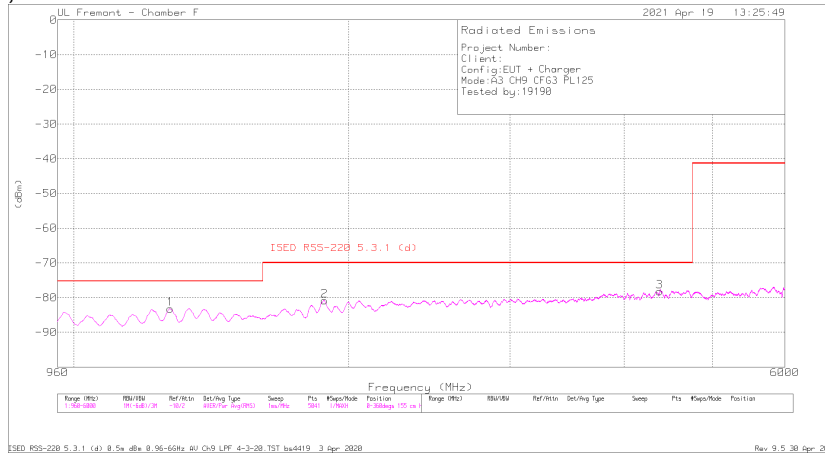
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISED RSS-228 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1273	-63.27	RMS	29	-45.3	-15.6	11.8	.2	-83.17	-75.3	-7.87	242	155	H
2	1877	-62.95	RMS	30.8	-45	-15.6	11.8	.2	-80.75	-70	-10.75	66	155	H
3	4382	-64.86	RMS	33.9	-43.2	-15.6	11.8	.4	-77.56	-70	-7.56	1	155	H
4	1274	-63.25	RMS	29	-45.3	-15.6	11.8	.2	-83.15	-75.3	-7.85	360	155	V
5	1879	-62.88	RMS	30.7	-45	-15.6	11.8	.2	-80.78	-70	-10.78	272	155	V
6	4382	-64.99	RMS	33.9	-43.2	-15.6	11.8	.4	-77.69	-70	-7.69	163	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 6 GHz to suppress CH5 fundamental signal.

ANT. 3, CH9, CONFIG 3



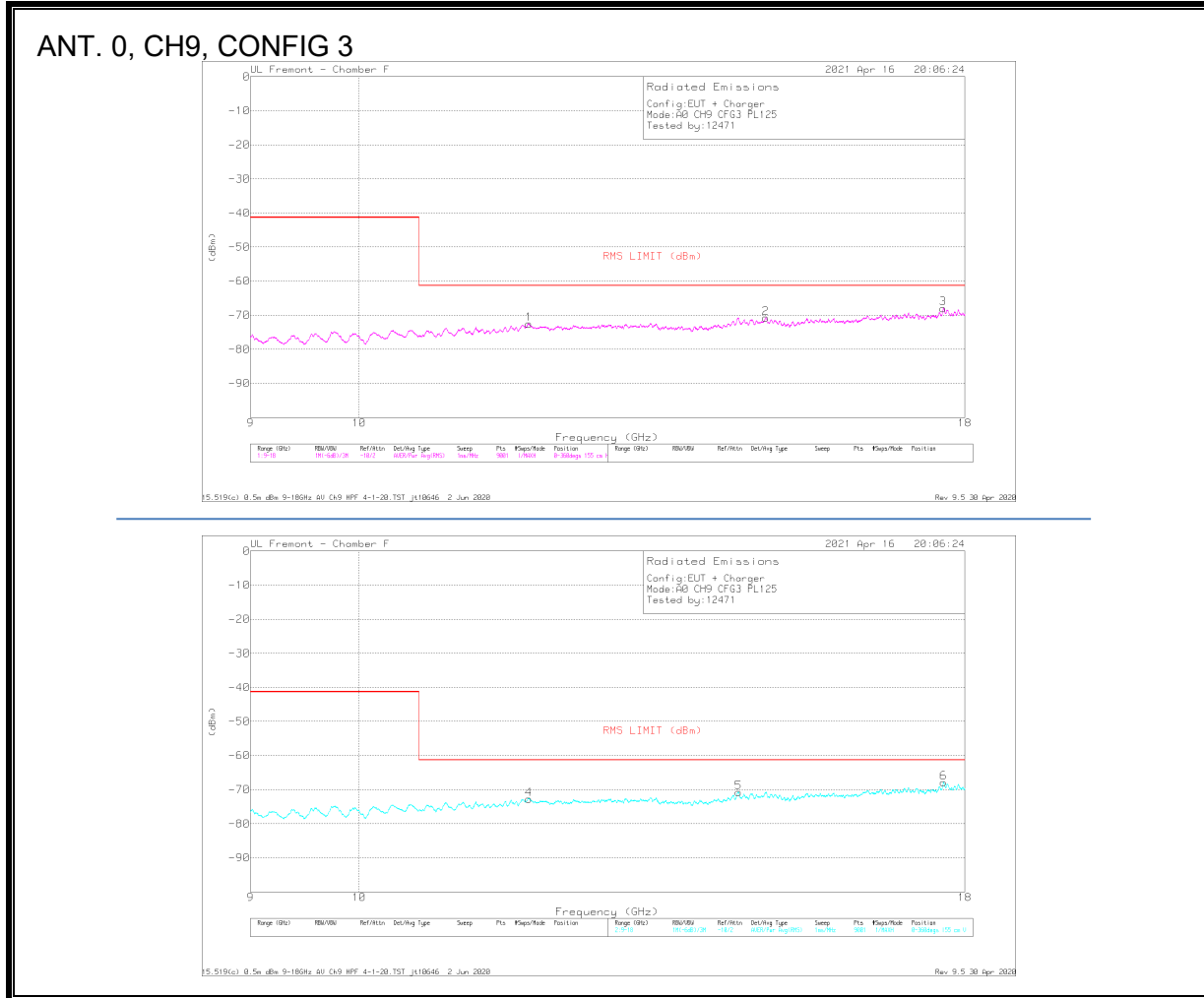
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1276	-63.37	RMS	29.1	-45.3	-15.6	11.8	.2	-83.17	-75.3	-7.87	110	155	H
2	1881	-62.86	RMS	30.6	-45	-15.6	11.8	.2	-80.86	-70	-10.86	286	155	H
3	4375	-65.27	RMS	33.9	-43.6	-15.6	11.8	.5	-78.27	-70	-8.27	132	155	H
4	1275	-63.3	RMS	29	-45.3	-15.6	11.8	.2	-83.2	-75.3	-7.9	96	155	V
5	1883	-63.24	RMS	30.6	-45	-15.6	11.8	.2	-81.24	-70	-11.24	185	155	V
6	4401	-64.86	RMS	33.8	-43.7	-15.6	11.8	.4	-78.16	-70	-8.16	316	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 6 GHz to suppress CH9 fundamental signal.

9.6.2. AVERAGE EMISSIONS, 9 – 18 GHz



Trace Markers

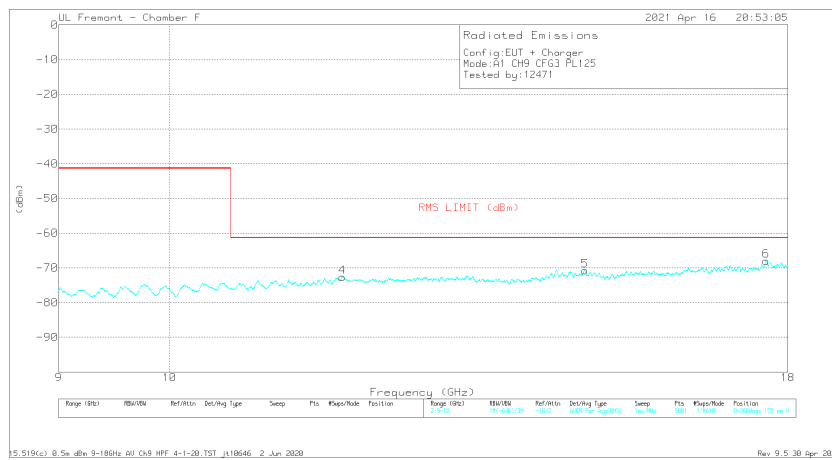
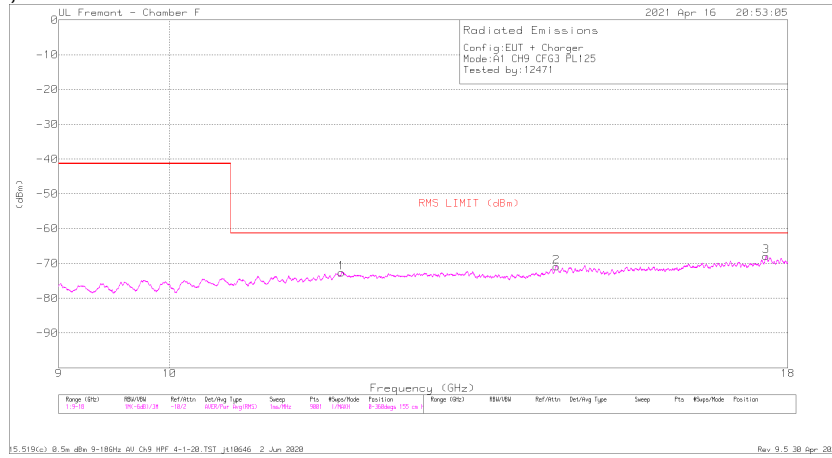
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH9_HPFF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	11.791	-70.76	RMS	38.9	-37.4	-15.6	11.8	.5	-72.56	-61.3	-11.26	53	155	H
2	14.838	-71.4	RMS	40	-36.4	-15.6	11.8	.8	-70.8	-61.3	-9.5	360	155	H
3	17.626	-71.35	RMS	41.5	-34.7	-15.6	11.8	.4	-67.95	-61.3	-6.65	53	155	H
4	11.791	-70.96	RMS	38.9	-37.4	-15.6	11.8	.5	-72.76	-61.3	-11.46	140	155	V
5	14.451	-71.77	RMS	39.8	-35.4	-15.6	11.8	.4	-70.77	-61.3	-9.47	295	155	V
6	17.633	-71.42	RMS	41.5	-34.6	-15.6	11.8	.4	-67.92	-61.3	-6.62	140	155	V

RMS - RMS detection

\*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH9 fundamental signal.



ANT. 1, CH9, CONFIG 3



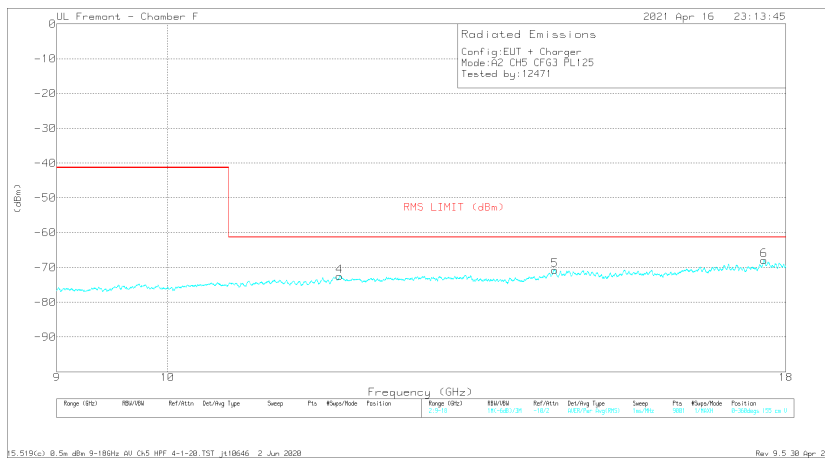
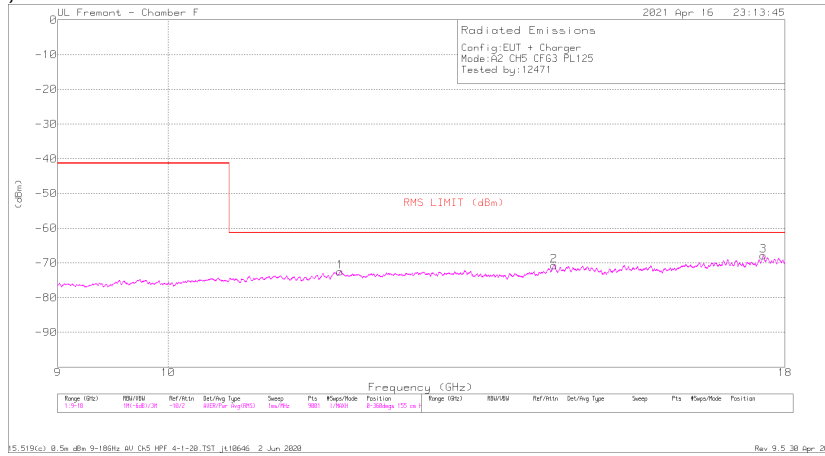
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH9_HPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	11.777	-70.68	RMS	38.9	-37.5	-15.6	11.8	.4	-72.68	-61.3	-11.38	264	155	H
2	14.446	-71.65	RMS	39.7	-35.4	-15.6	11.8	.3	-70.85	-61.3	-9.55	1	155	H
3	17.633	-71.42	RMS	41.5	-34.6	-15.6	11.8	.4	-67.92	-61.3	-6.62	88	155	H
4	11.788	-70.86	RMS	38.9	-37.4	-15.6	11.8	.5	-72.66	-61.3	-11.36	65	155	V
5	14.845	-71.4	RMS	40.1	-36.5	-15.6	11.8	.8	-70.8	-61.3	-9.5	0	155	V
6	17.631	-71.45	RMS	41.5	-34.6	-15.6	11.8	.4	-67.95	-61.3	-6.65	330	155	V

RMS - RMS detection

\*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



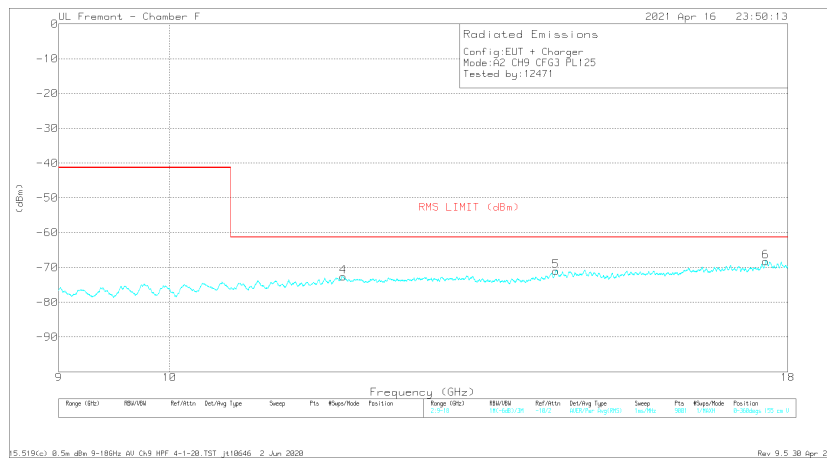
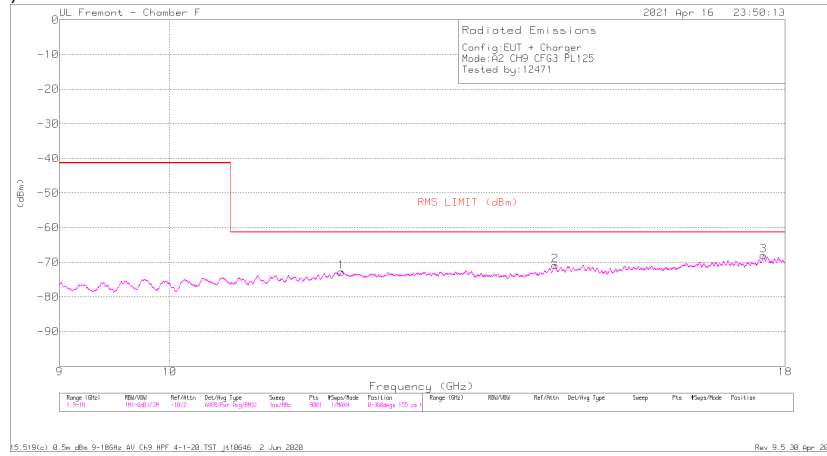
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH5_HPFF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	11.782	-70.75	RMS	38.9	-37.4	-15.6	11.8	.6	-72.45	-61.3	-11.15	251	155	H
2	14.445	-71.78	RMS	39.7	-35.5	-15.6	11.8	.6	-70.78	-61.3	-9.48	360	155	H
3	17.634	-71.63	RMS	41.5	-34.6	-15.6	11.8	.6	-67.93	-61.3	-6.63	229	155	H
4	11.777	-70.73	RMS	38.9	-37.5	-15.6	11.8	.6	-72.53	-61.3	-11.23	295	155	V
5	14.452	-71.83	RMS	39.8	-35.4	-15.6	11.8	.5	-70.73	-61.3	-9.43	163	155	V
6	17.632	-71.59	RMS	41.5	-34.6	-15.6	11.8	.6	-67.89	-61.3	-6.59	163	155	V

RMS - RMS detection

\*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3



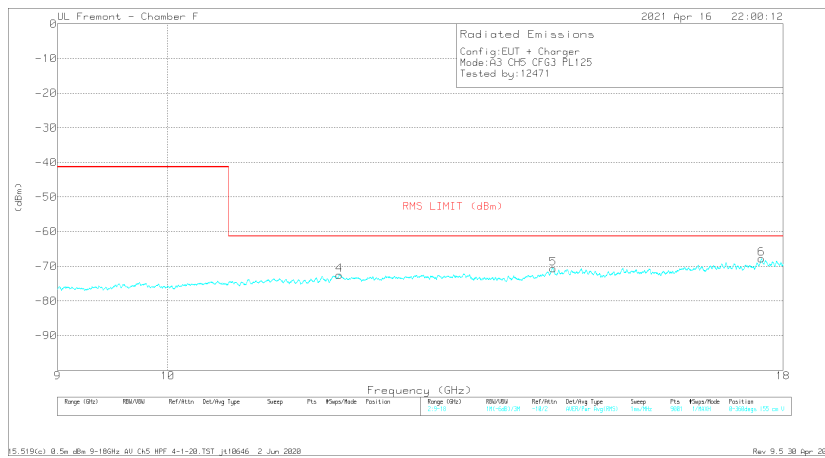
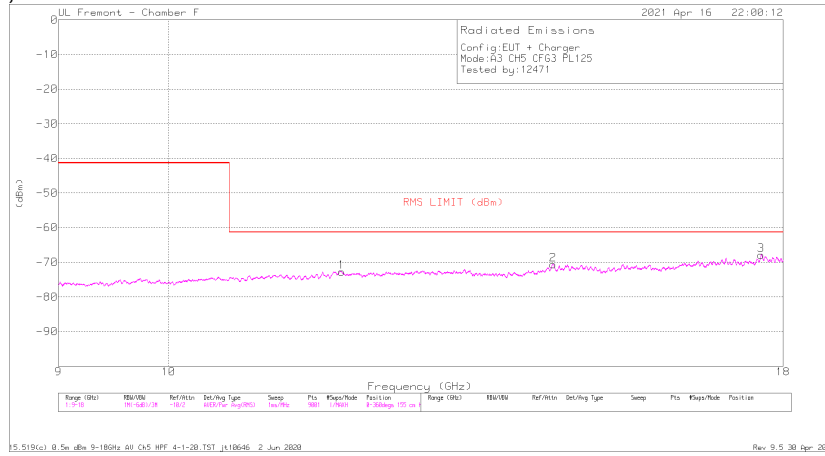
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH9_HP (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	11.782	-70.8	RMS	38.9	-37.4	-15.6	11.8	.4	-72.7	-61.3	-11.4	132	155	H
2	14.452	-71.9	RMS	39.8	-35.4	-15.6	11.8	.4	-70.9	-61.3	-9.6	197	155	H
3	17.635	-71.61	RMS	41.5	-34.6	-15.6	11.8	.5	-68.01	-61.3	-6.71	197	155	H
4	11.796	-70.68	RMS	38.9	-37.5	-15.6	11.8	.5	-72.58	-61.3	-11.28	31	155	V
5	14.44	-71.55	RMS	39.7	-35.6	-15.6	11.8	.3	-70.95	-61.3	-9.65	31	155	V
6	17.626	-71.69	RMS	41.5	-34.7	-15.6	11.8	.4	-68.29	-61.3	-6.99	97	155	V

RMS - RMS detection

\*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH9 fundamental signal.

ANT. 3, CH5, CONFIG 3



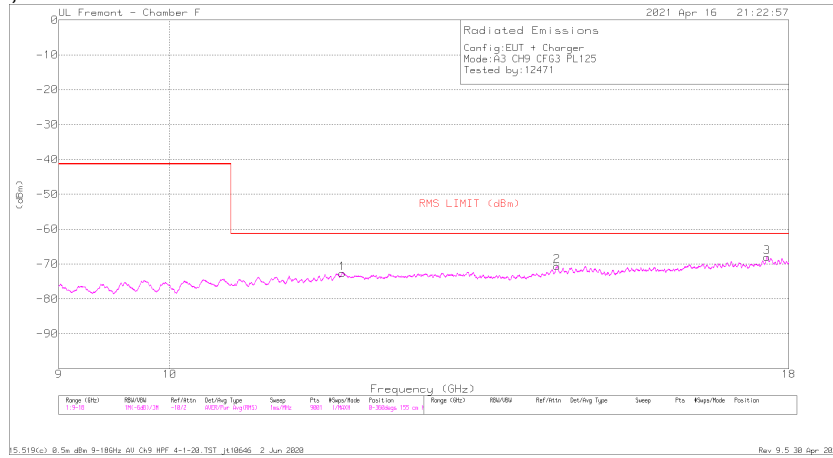
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH5_HP (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	11.801	-70.63	RMS	38.9	-37.7	-15.6	11.8	.5	-72.73	-61.3	-11.43	185	155	H
2	14.446	-71.75	RMS	39.7	-35.4	-15.6	11.8	.6	-70.65	-61.3	-9.35	316	155	H
3	17.629	-71.55	RMS	41.5	-34.6	-15.6	11.8	.6	-67.85	-61.3	-6.55	74	155	H
4	11.782	-70.79	RMS	38.9	-37.4	-15.6	11.8	.6	-72.49	-61.3	-11.19	219	155	V
5	14.452	-71.78	RMS	39.8	-35.4	-15.6	11.8	.5	-70.68	-61.3	-9.38	286	155	V
6	17.633	-71.43	RMS	41.5	-34.6	-15.6	11.8	.6	-67.73	-61.3	-6.43	286	155	V

RMS - RMS detection

\*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH5 fundamental signal.

ANT. 3, CH9, CONFIG 3



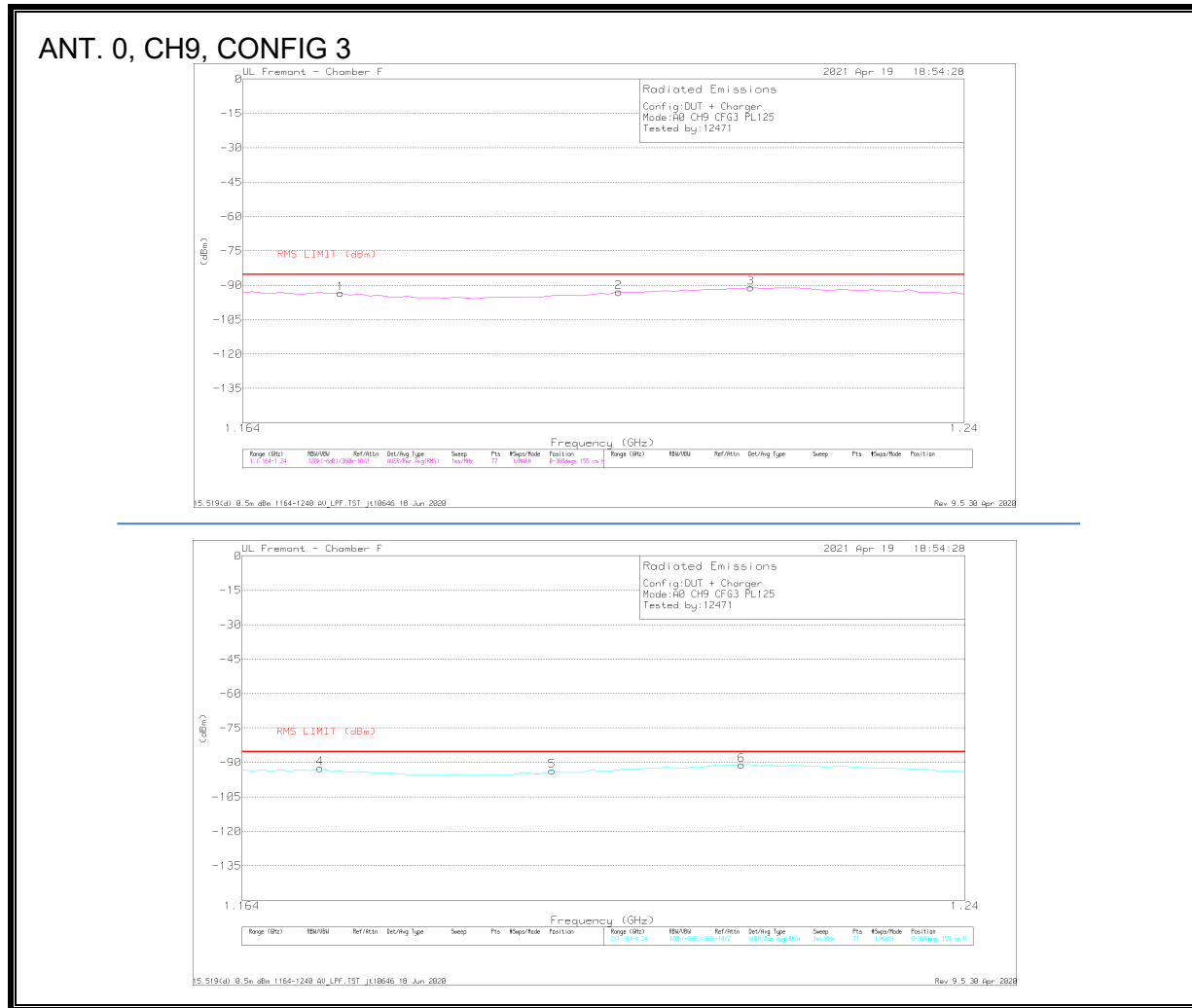
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH9_HPFF (dB)	Corrected Reading (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	11.782	-70.69	RMS	38.9	-37.4	-15.6	11.8	.4	-72.59	-61.3	-11.29	286	155	H
2	14.447	-71.37	RMS	39.7	-35.4	-15.6	11.8	.3	-70.57	-61.3	-9.27	22	155	H
3	17.634	-71.58	RMS	41.5	-34.6	-15.6	11.8	.5	-67.98	-61.3	-6.68	154	155	H
4	11.787	-70.85	RMS	38.9	-37.4	-15.6	11.8	.5	-72.65	-61.3	-11.35	228	155	V
5	14.445	-71.57	RMS	39.7	-35.5	-15.6	11.8	.3	-70.87	-61.3	-9.57	53	155	V
6	17.636	-71.46	RMS	41.4	-34.6	-15.6	11.8	.5	-67.96	-61.3	-6.66	31	155	V

RMS - RMS detection

\*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH9 fundamental signal.

**9.6.3. AVERAGE EMISSIONS, 1.164 – 1.240 GHz**



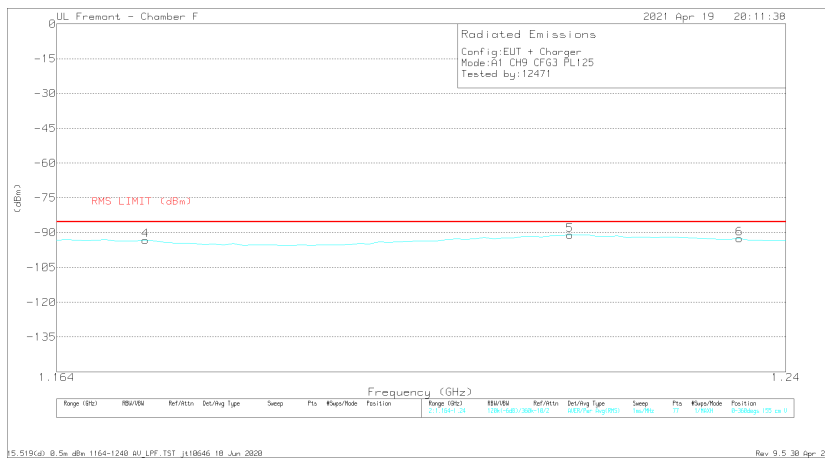
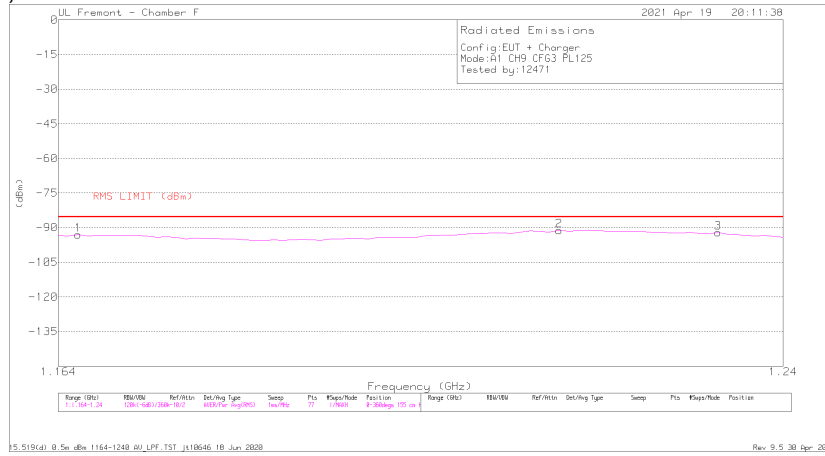
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.174	-73.08	RMS	28.6	-45.4	-15.6	11.8	.2	-93.48	-85.3	-8.18	132	155	H
2	1.203	-73.75	RMS	29.6	-45.2	-15.6	11.8	.2	-92.95	-85.3	-7.65	88	155	H
3	1.217	-72.01	RMS	29.9	-45.2	-15.6	11.8	.2	-90.91	-85.3	-5.61	110	155	H
4	1.172	-72	RMS	28.6	-45.4	-15.6	11.8	.2	-92.4	-85.3	-7.1	163	155	V
5	1.196	-74.36	RMS	29.4	-45.1	-15.6	11.8	.2	-93.66	-85.3	-8.36	163	155	V
6	1.216	-72.12	RMS	29.9	-45.2	-15.6	11.8	.2	-91.02	-85.3	-5.72	75	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 1, CH9, CONFIG 3



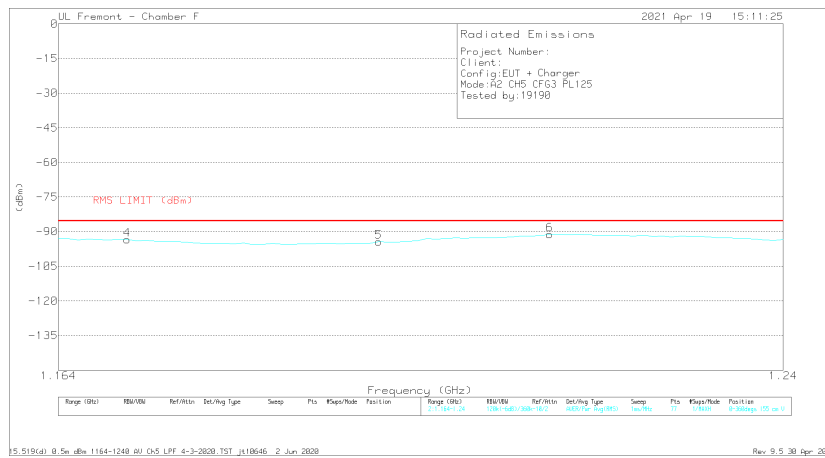
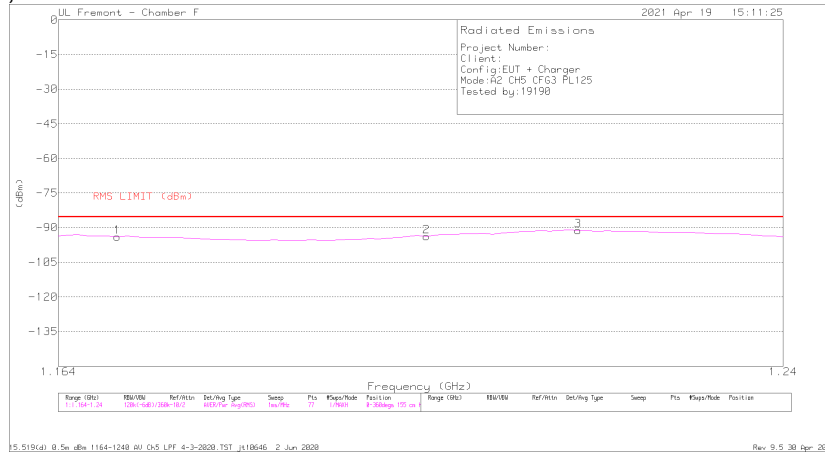
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.166	-72.53	RMS	28.5	-45.4	-15.6	11.8	.2	-93.03	-85.3	-7.73	44	155	H
2	1.216	-72.35	RMS	29.9	-45.2	-15.6	11.8	.2	-91.25	-85.3	-5.95	132	155	H
3	1.233	-72.92	RMS	29.8	-45.4	-15.6	11.8	.2	-92.12	-85.3	-6.82	330	155	H
4	1.173	-72.81	RMS	28.6	-45.4	-15.6	11.8	.2	-93.21	-85.3	-7.91	207	155	V
5	1.217	-72.06	RMS	29.9	-45.2	-15.6	11.8	.2	-90.96	-85.3	-5.66	31	155	V
6	1.235	-73.27	RMS	29.8	-45.4	-15.6	11.8	.2	-92.47	-85.3	-7.17	163	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



Trace Markers

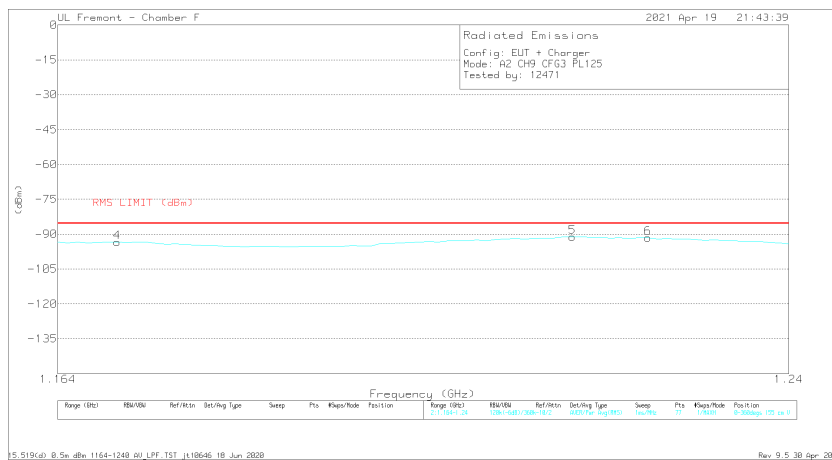
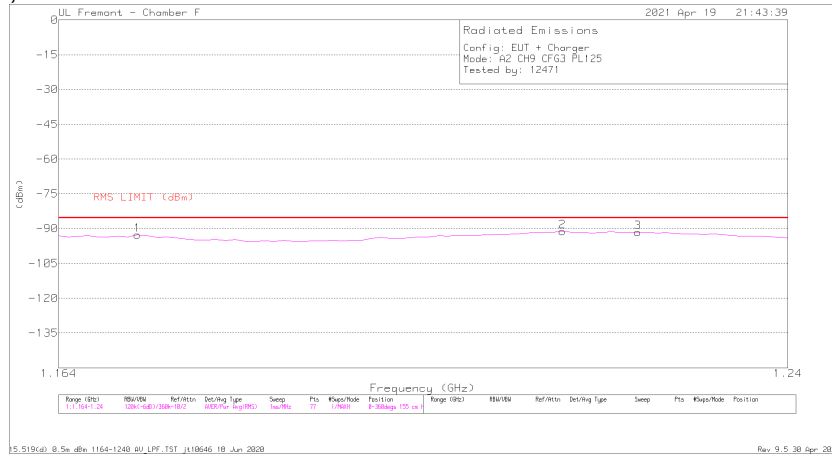
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	18196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.17	-73.54	RMS	28.6	-45.4	-15.6	11.8	.2	-93.94	-85.3	-8.64	317	155	H
2	1.202	-74.69	RMS	29.6	-45.1	-15.6	11.8	.2	-93.79	-85.3	-8.49	75	155	H
3	1.218	-72.21	RMS	29.9	-45.2	-15.6	11.8	.2	-91.11	-85.3	-5.81	251	155	H
4	1.171	-73.06	RMS	28.6	-45.4	-15.6	11.8	.2	-93.46	-85.3	-8.16	109	155	V
5	1.197	-75.13	RMS	29.5	-45.1	-15.6	11.8	.2	-94.33	-85.3	-9.03	109	155	V
6	1.215	-72.17	RMS	29.8	-45.2	-15.6	11.8	.2	-91.17	-85.3	-5.87	43	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.



ANT. 2, CH9, CONFIG 3



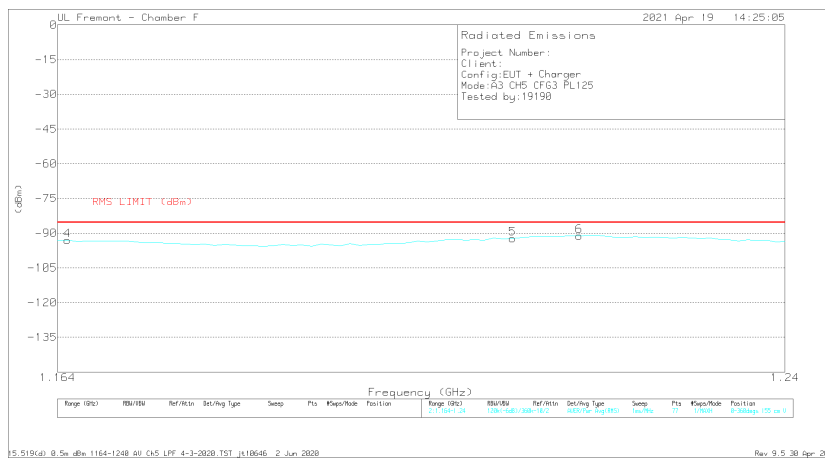
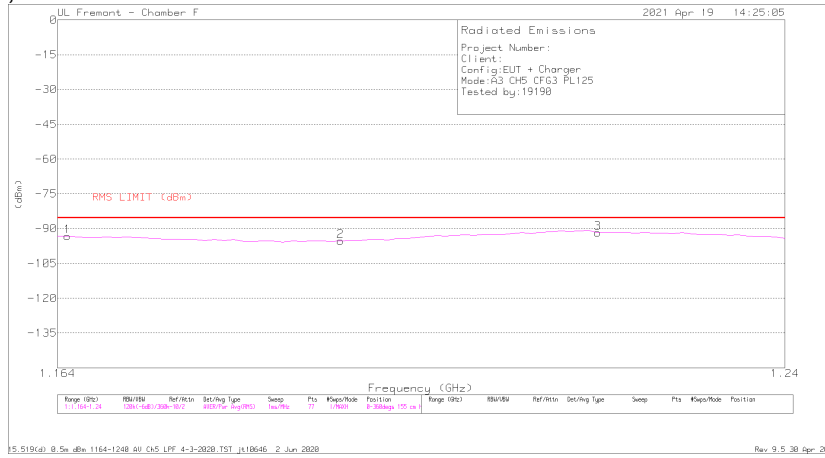
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.172	-72.32	RMS	28.6	-45.4	-15.6	11.8	.2	-92.72	-85.3	-7.42	330	155	H
2	1.216	-72.31	RMS	29.9	-45.2	-15.6	11.8	.2	-91.21	-85.3	-5.91	88	155	H
3	1.224	-72.48	RMS	29.9	-45.3	-15.6	11.8	.2	-91.48	-85.3	-6.18	176	155	H
4	1.17	-73.02	RMS	28.6	-45.4	-15.6	11.8	.2	-93.42	-85.3	-8.12	295	155	V
5	1.217	-72.31	RMS	29.9	-45.2	-15.6	11.8	.2	-91.21	-85.3	-5.91	31	155	V
6	1.225	-72.43	RMS	29.8	-45.4	-15.6	11.8	.2	-91.63	-85.3	-6.33	141	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 3, CH5, CONFIG 3



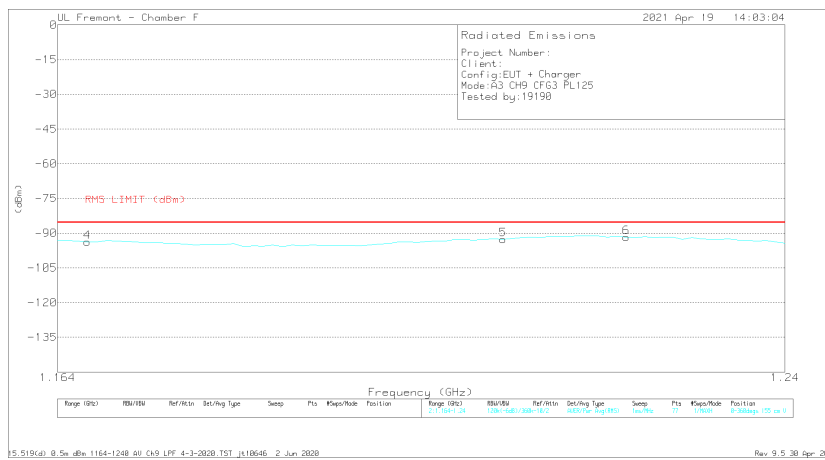
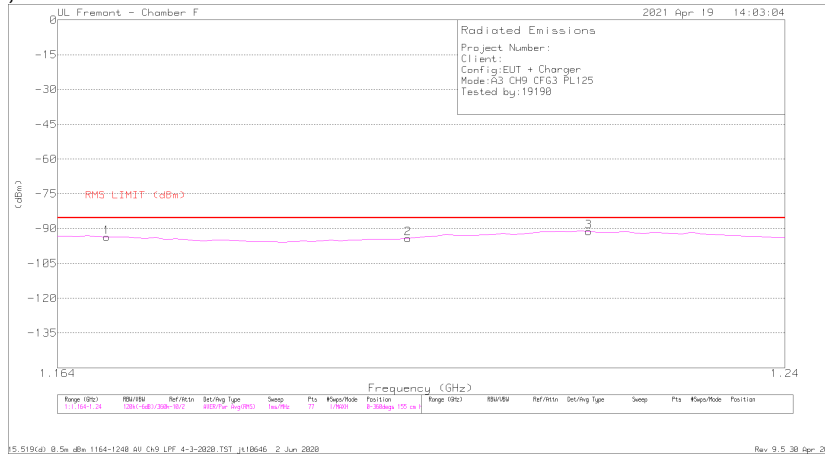
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.165	-72.78	RMS	28.5	-45.4	-15.6	11.8	.2	-93.28	-85.3	-7.98	66	155	H
2	1.193	-75.82	RMS	29.2	-45.1	-15.6	11.8	.2	-95.32	-85.3	-10.02	220	155	H
3	1.22	-72.82	RMS	29.9	-45.3	-15.6	11.8	.2	-91.82	-85.3	-6.52	220	155	H
4	1.165	-72.59	RMS	28.5	-45.4	-15.6	11.8	.2	-93.09	-85.3	-7.79	141	155	V
5	1.211	-73.07	RMS	29.6	-45.2	-15.6	11.8	.2	-92.27	-85.3	-6.97	184	155	V
6	1.218	-72.26	RMS	29.9	-45.2	-15.6	11.8	.2	-91.16	-85.3	-5.86	207	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 3, CH9, CONFIG 3



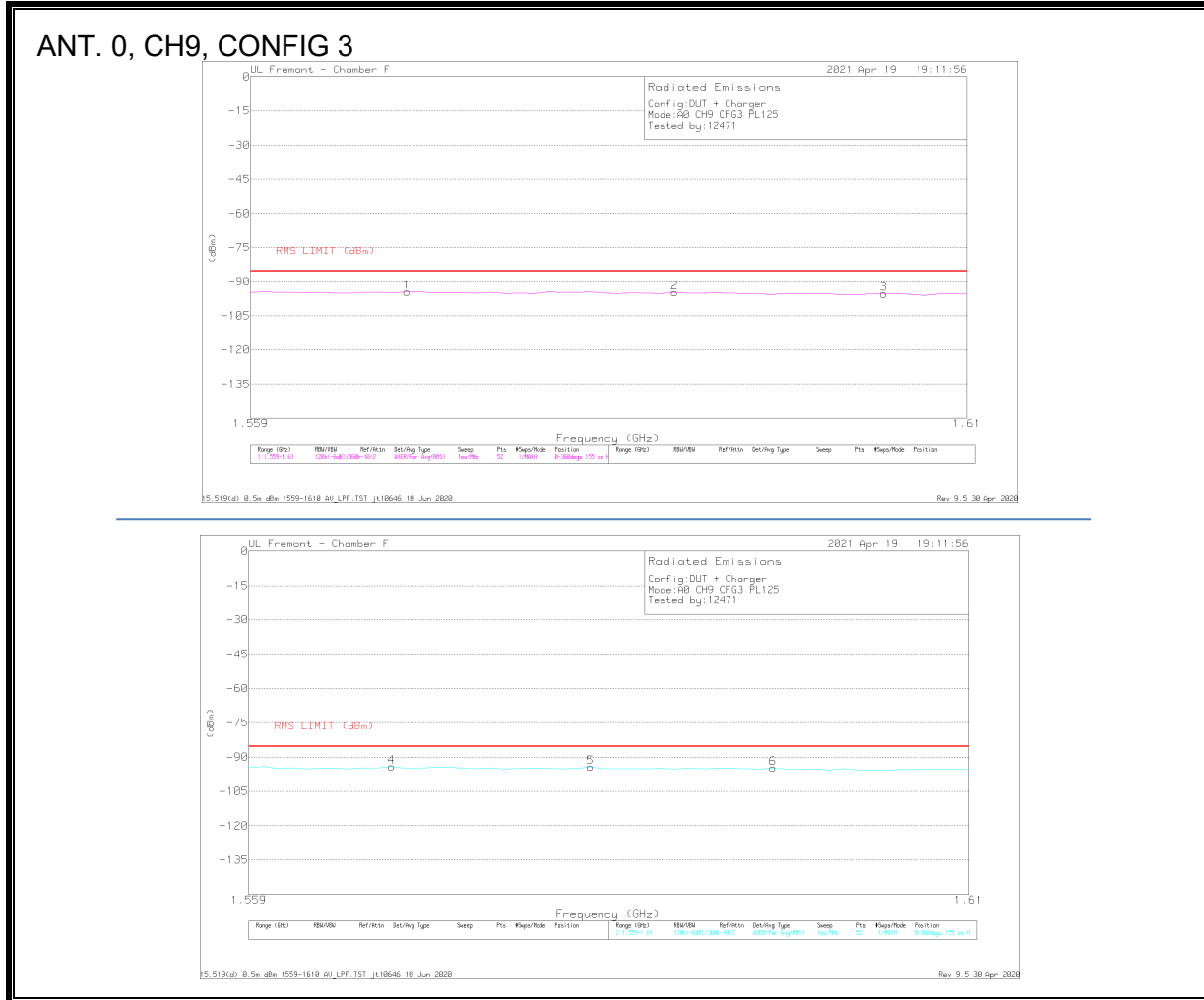
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.169	-73.17	RMS	28.6	-45.4	-15.6	11.8	.2	-93.57	-85.3	-8.27	132	155	H
2	1.2	-75.08	RMS	29.6	-45.1	-15.6	11.8	.2	-94.18	-85.3	-8.88	263	155	H
3	1.219	-72.22	RMS	29.9	-45.3	-15.6	11.8	.2	-91.22	-85.3	-5.92	220	155	H
4	1.167	-73.32	RMS	28.6	-45.4	-15.6	11.8	.2	-93.72	-85.3	-8.42	53	155	V
5	1.21	-73.36	RMS	29.6	-45.3	-15.6	11.8	.2	-92.66	-85.3	-7.36	251	155	V
6	1.223	-72.81	RMS	29.9	-45.3	-15.6	11.8	.2	-91.81	-85.3	-6.51	75	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

**9.6.4. AVERAGE EMISSIONS, 1.559 – 1.610 GHz**



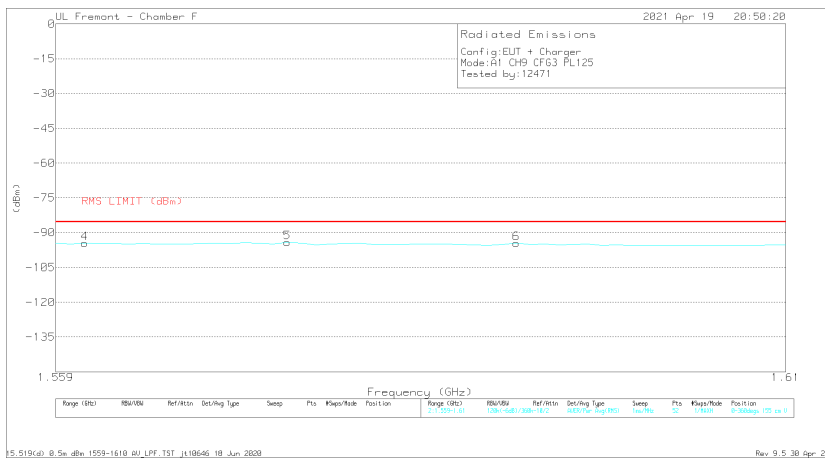
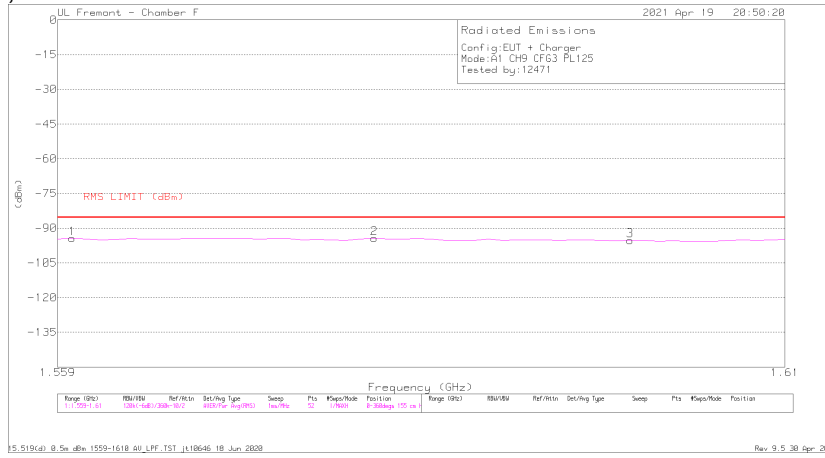
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.57	-73.75	RMS	28	-45.2	-15.6	11.8	.2	-94.55	-85.3	-9.25	229	155	H
2	1.589	-73.86	RMS	28	-45.3	-15.6	11.8	.2	-94.76	-85.3	-9.46	53	155	H
3	1.604	-74.48	RMS	28	-45.3	-15.6	11.8	.2	-95.38	-85.3	-10.08	30	155	H
4	1.569	-73.33	RMS	27.9	-45.2	-15.6	11.8	.2	-94.23	-85.3	-8.93	286	155	V
5	1.583	-73.41	RMS	27.9	-45.2	-15.6	11.8	.2	-94.31	-85.3	-9.01	330	155	V
6	1.596	-73.87	RMS	28	-45.2	-15.6	11.8	.2	-94.67	-85.3	-9.37	286	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 1, CH9, CONFIG 3



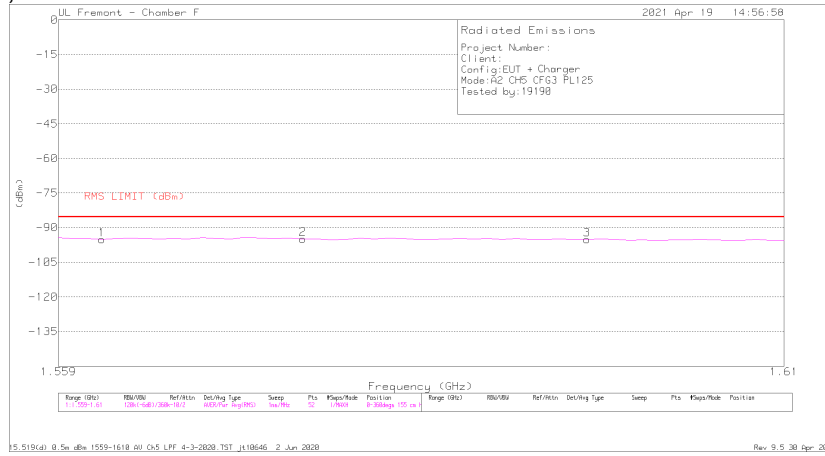
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) ERP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.56	-73.4	RMS	27.9	-45.2	-15.6	11.8	.2	-94.3	-85.3	-9	339	155	H
2	1.581	-73.27	RMS	27.9	-45.3	-15.6	11.8	.2	-94.27	-85.3	-8.97	53	155	H
3	1.599	-74.4	RMS	28	-45.2	-15.6	11.8	.2	-95.2	-85.3	-9.9	75	155	H
4	1.561	-73.56	RMS	27.9	-45.2	-15.6	11.8	.2	-94.46	-85.3	-9.16	153	155	V
5	1.575	-73.43	RMS	28	-45.2	-15.6	11.8	.2	-94.23	-85.3	-8.93	176	155	V
6	1.591	-73.69	RMS	28	-45.3	-15.6	11.8	.2	-94.59	-85.3	-9.29	220	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



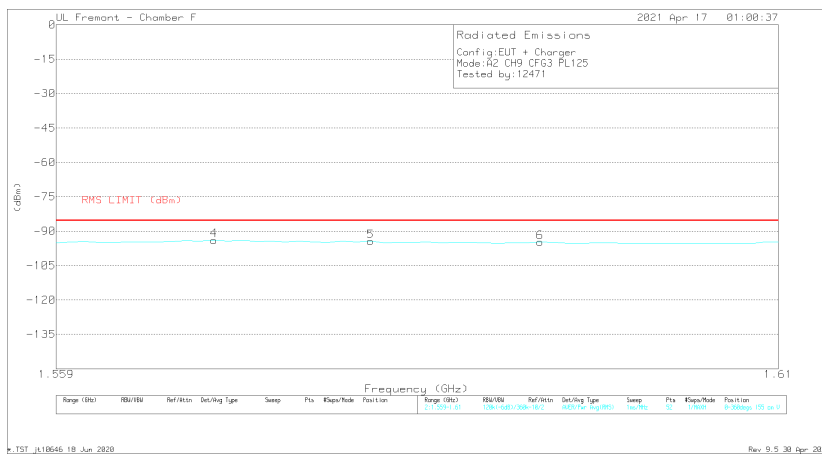
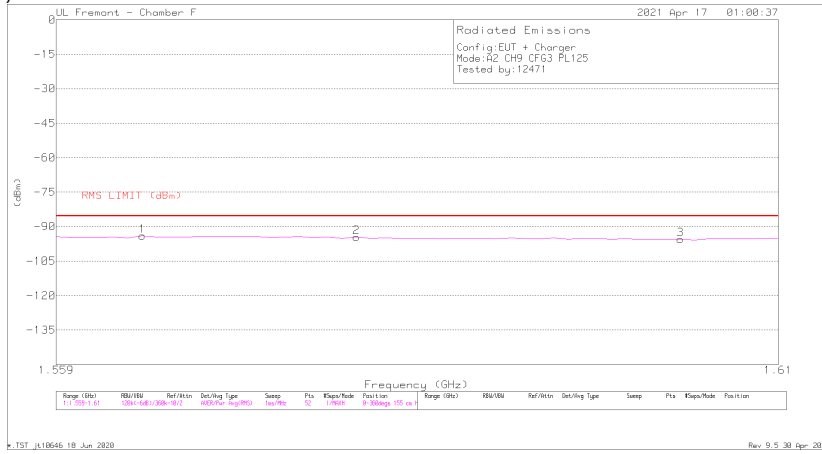
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.562	-74.18	RMS	27.9	-45.2	-15.6	11.8	.2	-95.08	-85.3	-9.78	176	155	H
2	1.576	-74.14	RMS	28	-45.2	-15.6	11.8	.2	-94.94	-85.3	-9.64	110	155	H
3	1.596	-74.27	RMS	28	-45.2	-15.6	11.8	.2	-95.07	-85.3	-9.77	264	155	H
4	1.56	-73.78	RMS	27.9	-45.2	-15.6	11.8	.2	-94.68	-85.3	-9.38	206	155	V
5	1.58	-73.75	RMS	28	-45.3	-15.6	11.8	.2	-94.65	-85.3	-9.35	141	155	V
6	1.604	-74.79	RMS	28	-45.3	-15.6	11.8	.2	-95.69	-85.3	-10.39	206	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3

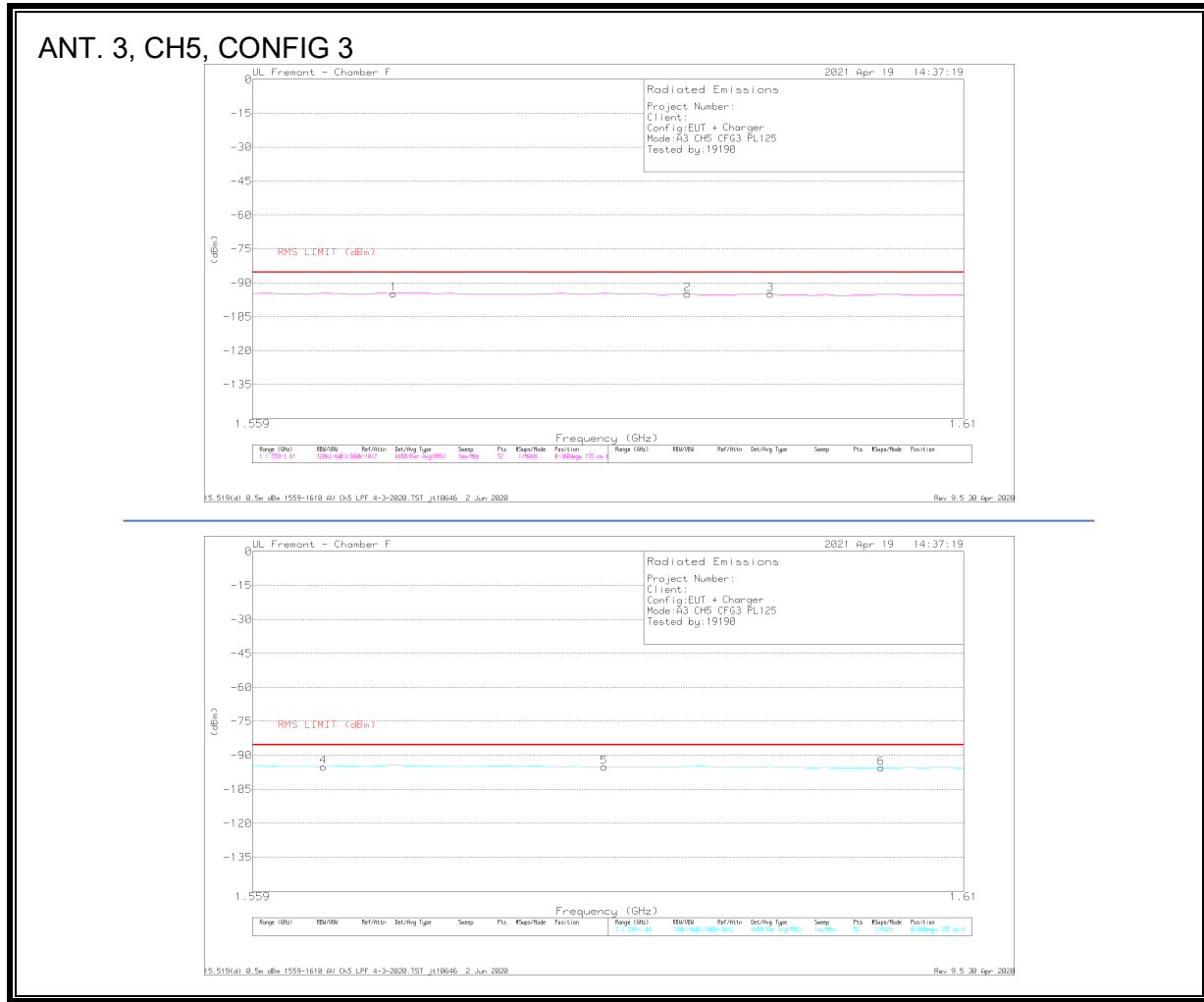


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dBm)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188198 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.565	-73	RMS	27.9	-45.2	-15.6	11.8	.2	-93.9	-85.3	-8.6	198	155	H
2	1.58	-73.67	RMS	28	-45.3	-15.6	11.8	.2	-94.57	-85.3	-9.27	154	155	H
3	1.603	-74.51	RMS	28	-45.3	-15.6	11.8	.2	-95.41	-85.3	-10.11	22	155	H
4	1.57	-73.09	RMS	28	-45.2	-15.6	11.8	.2	-93.99	-85.3	-8.69	110	155	V
5	1.581	-73.33	RMS	27.9	-45.3	-15.6	11.8	.2	-94.33	-85.3	-9.03	175	155	V
6	1.593	-73.97	RMS	28	-45.2	-15.6	11.8	.2	-94.77	-85.3	-9.47	198	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.



### Trace Markers

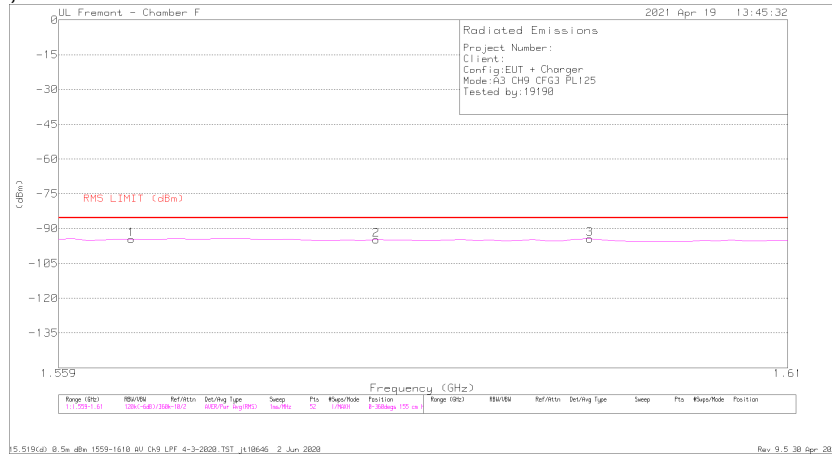
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.119(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.569	-73.84	RMS	27.9	-45.2	-15.6	11.8	.2	-94.74	-85.3	-9.44	219	155	H
2	1.59	-74.07	RMS	28	-45.3	-15.6	11.8	.2	-94.97	-85.3	-9.67	264	155	H
3	1.596	-74.15	RMS	28	-45.2	-15.6	11.8	.2	-94.95	-85.3	-9.65	286	155	H
4	1.564	-74.11	RMS	27.9	-45.2	-15.6	11.8	.2	-95.01	-85.3	-9.71	294	155	V
5	1.584	-74.23	RMS	27.9	-45.2	-15.6	11.8	.2	-95.13	-85.3	-9.83	317	155	V
6	1.604	-74.58	RMS	28	-45.3	-15.6	11.8	.2	-95.48	-85.3	-10.18	185	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 6 GHz to suppress CH5 fundamental signal.



ANT. 3, CH9, CONFIG 3



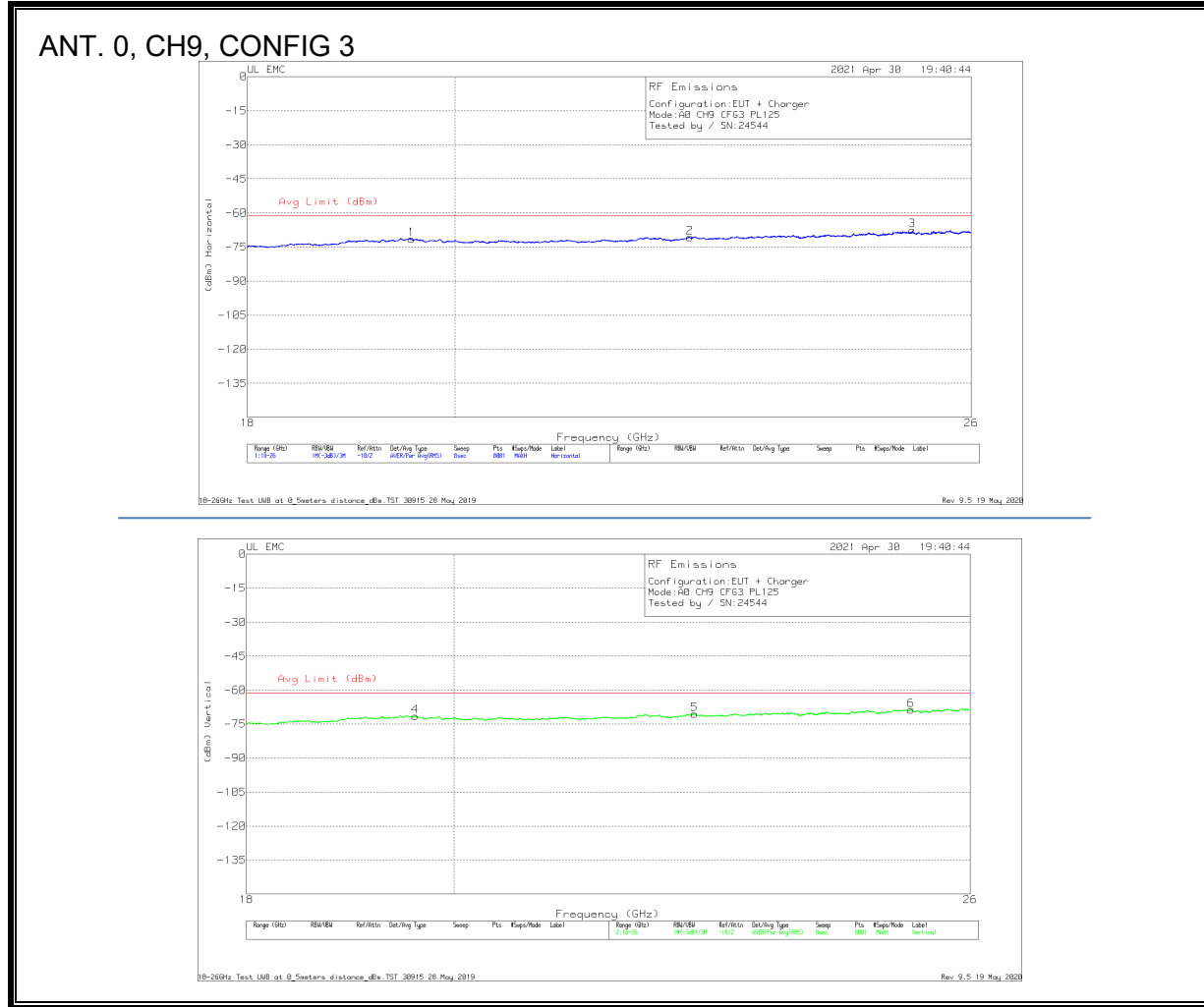
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.564	-73.79	RMS	27.9	-45.2	-15.6	11.8	.3	-94.59	-85.3	-9.29	141	155	H
2	1.581	-73.85	RMS	27.9	-45.3	-15.6	11.8	.3	-94.75	-85.3	-9.45	53	155	H
3	1.596	-73.66	RMS	28	-45.2	-15.6	11.8	.3	-94.36	-85.3	-9.06	163	155	H
4	1.57	-73.45	RMS	28	-45.2	-15.6	11.8	.4	-94.05	-85.3	-8.75	0	155	V
5	1.587	-73.78	RMS	28	-45.3	-15.6	11.8	.3	-94.58	-85.3	-9.28	198	155	V
6	1.593	-74.09	RMS	28	-45.2	-15.6	11.8	.3	-94.79	-85.3	-9.49	264	155	V

RMS - RMS detection

\*Note: Test was performed with a low-pass filter with cutoff frequency at 6 GHz to suppress CH9 fundamental signal.

**9.6.5. AVERAGE EMISSIONS, 18 – 26 GHz**

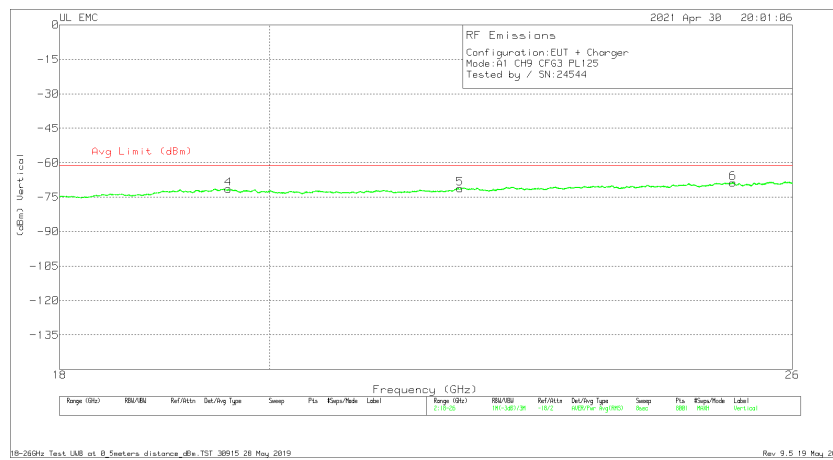
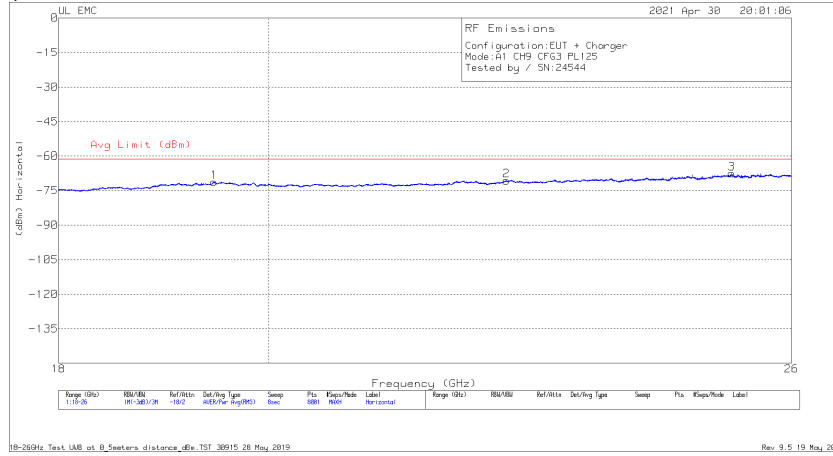


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.563	-81.87	RMS	32.7	-18.5	-15.6	11.8	-71.47	-61.3	-10.17	H
2	22.535	-81.7	RMS	33.4	-18.6	-15.6	11.8	-70.7	-61.3	-9.4	H
3	25.231	-80.43	RMS	34.2	-17.6	-15.6	11.8	-67.63	-61.3	-6.33	H
4	19.611	-81.9	RMS	32.8	-18.6	-15.6	11.8	-71.5	-61.3	-10.2	V
5	22.599	-81.51	RMS	33.4	-18.6	-15.6	11.8	-70.51	-61.3	-9.21	V
6	25.226	-81.45	RMS	34.2	-17.6	-15.6	11.8	-68.65	-61.3	-7.35	V

RMS - RMS detection

ANT. 1, CH9, CONFIG 3

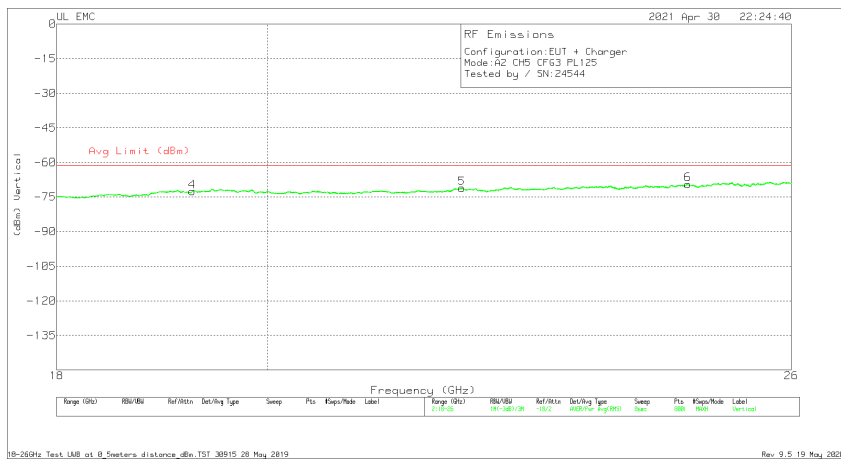
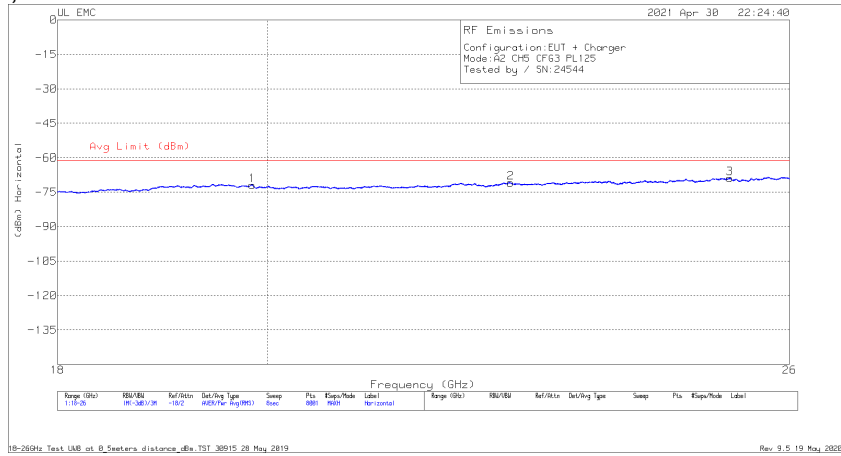


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.46	-82.45	RMS	32.6	-17.6	-15.6	11.8	-71.25	-61.3	-9.95	H
2	22.534	-81.74	RMS	33.4	-18.5	-15.6	11.8	-70.64	-61.3	-9.34	H
3	25.231	-80.32	RMS	34.2	-17.6	-15.6	11.8	-67.52	-61.3	-6.22	H
4	19.591	-81.65	RMS	32.8	-18.7	-15.6	11.8	-71.35	-61.3	-10.05	V
5	22.007	-81.41	RMS	33.3	-19.3	-15.6	11.8	-71.21	-61.3	-9.91	V
6	25.234	-81.45	RMS	34.2	-17.6	-15.6	11.8	-68.65	-61.3	-7.35	V

RMS - RMS detection

ANT. 2, CH5, CONFIG 3

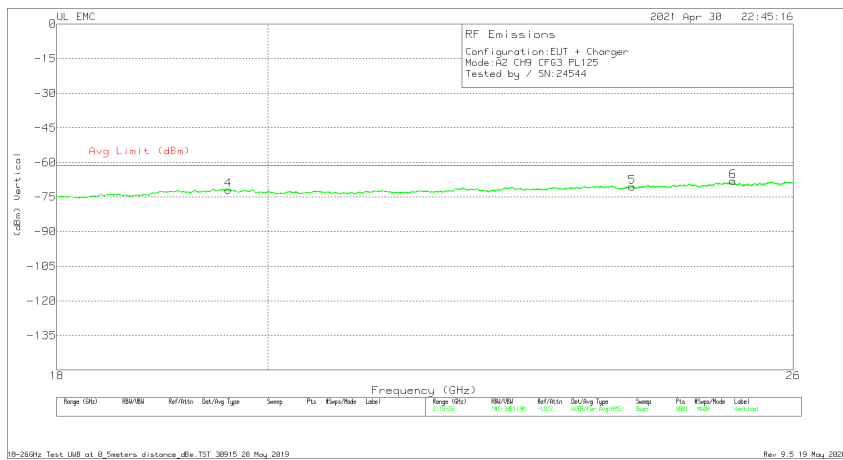
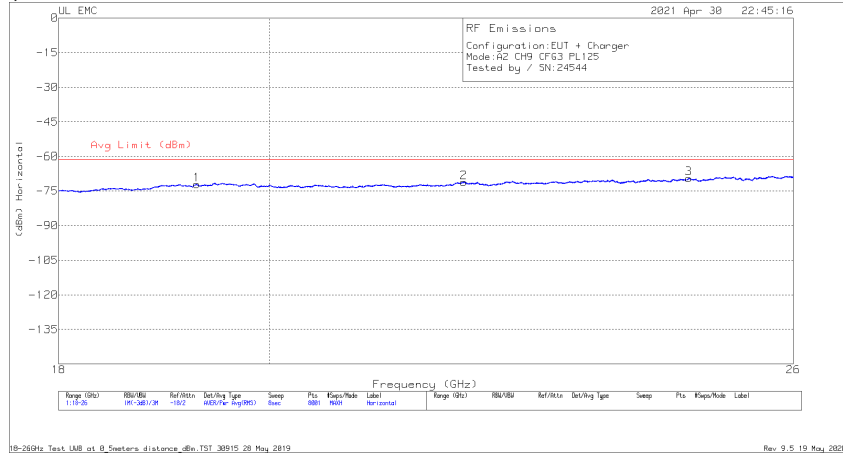


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.849	-82.09	RMS	32.7	-18.7	-15.6	11.8	-71.89	-61.3	-10.59	H
2	22.6005	-81.9	RMS	33.4	-18.6	-15.6	11.8	-70.9	-61.3	-9.6	H
3	25.232	-81.69	RMS	34.2	-17.6	-15.6	11.8	-68.89	-61.3	-7.59	H
4	19.265	-82.81	RMS	32.6	-18.5	-15.6	11.8	-72.51	-61.3	-11.21	V
5	22.047	-81.83	RMS	33.3	-18.8	-15.6	11.8	-71.13	-61.3	-9.83	V
6	24.687	-82.52	RMS	34	-17.1	-15.6	11.8	-69.42	-61.3	-8.12	V

RMS - RMS detection

ANT. 2, CH9, CONFIG 3

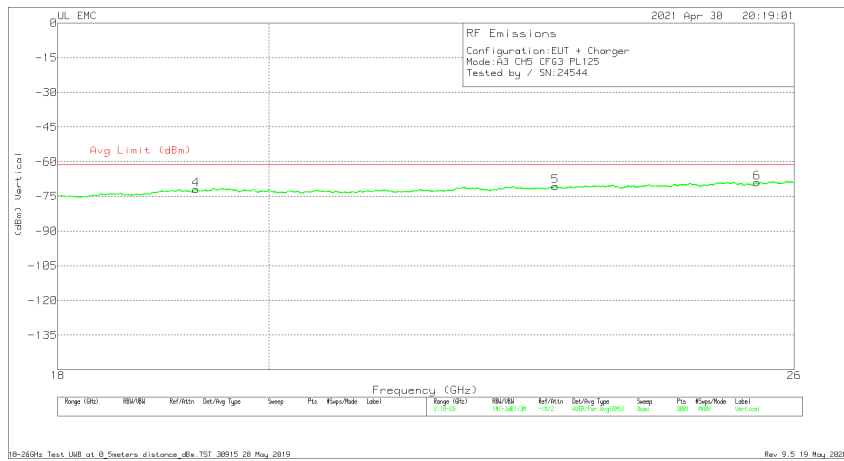
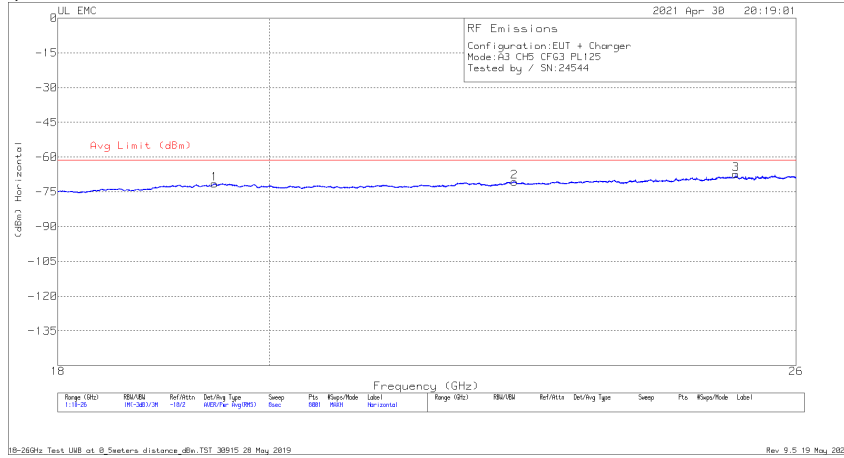


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.288	-82.96	RMS	32.7	-18	-15.6	11.8	-72.06	-61.3	-10.76	H
2	22.046	-81.87	RMS	33.3	-18.8	-15.6	11.8	-71.17	-61.3	-9.87	H
3	24.672	-82.46	RMS	33.9	-17.1	-15.6	11.8	-69.46	-61.3	-8.16	H
4	19.61	-82.27	RMS	32.8	-18.6	-15.6	11.8	-71.87	-61.3	-10.57	V
5	23.991	-82.48	RMS	33.8	-18	-15.6	11.8	-70.48	-61.3	-9.18	V
6	25.232	-80.81	RMS	34.2	-17.6	-15.6	11.8	-68.01	-61.3	-6.71	V

RMS - RMS detection

ANT. 3, CH5, CONFIG 3

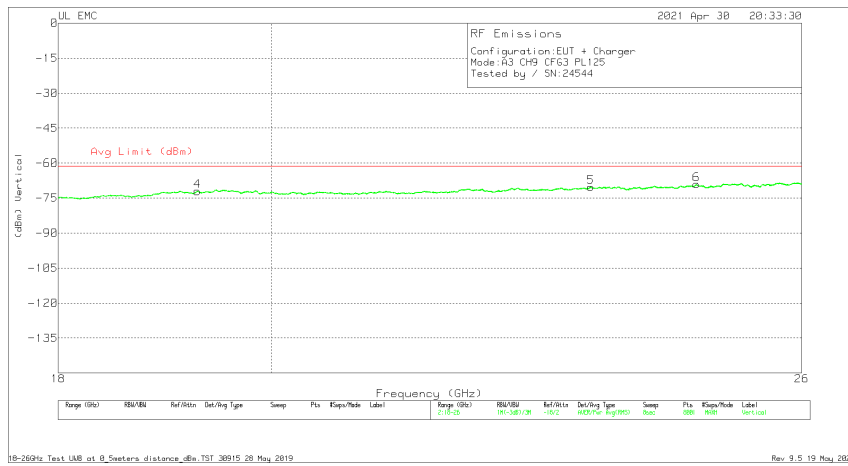
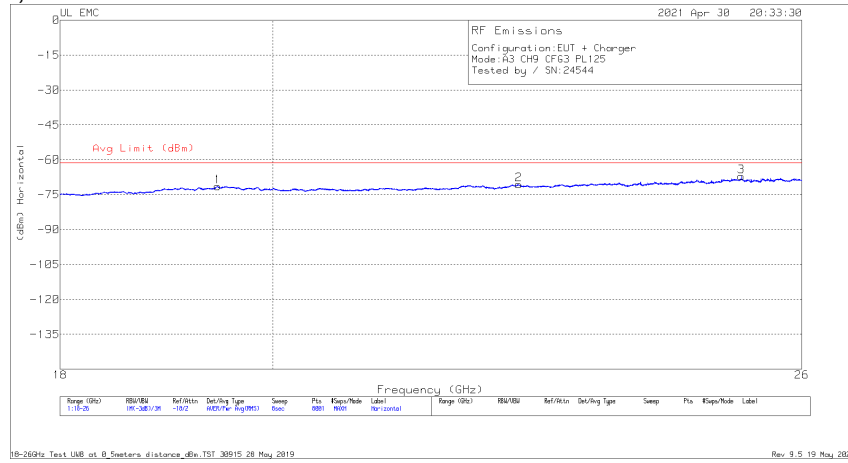


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.46	-82.66	RMS	32.6	-17.6	-15.6	11.8	-71.46	-61.3	-10.16	H
2	22.595	-81.72	RMS	33.4	-18.5	-15.6	11.8	-70.62	-61.3	-9.32	H
3	25.231	-80.08	RMS	34.2	-17.6	-15.6	11.8	-67.28	-61.3	-5.98	H
4	19.285	-82.75	RMS	32.7	-18.1	-15.6	11.8	-71.95	-61.3	-10.65	V
5	23.078	-81.91	RMS	33.4	-18.3	-15.6	11.8	-70.61	-61.3	-9.31	V
6	25.52	-81.71	RMS	34.1	-17.5	-15.6	11.8	-68.91	-61.3	-7.61	V

RMS - RMS detection

ANT. 3, CH9, CONFIG 3

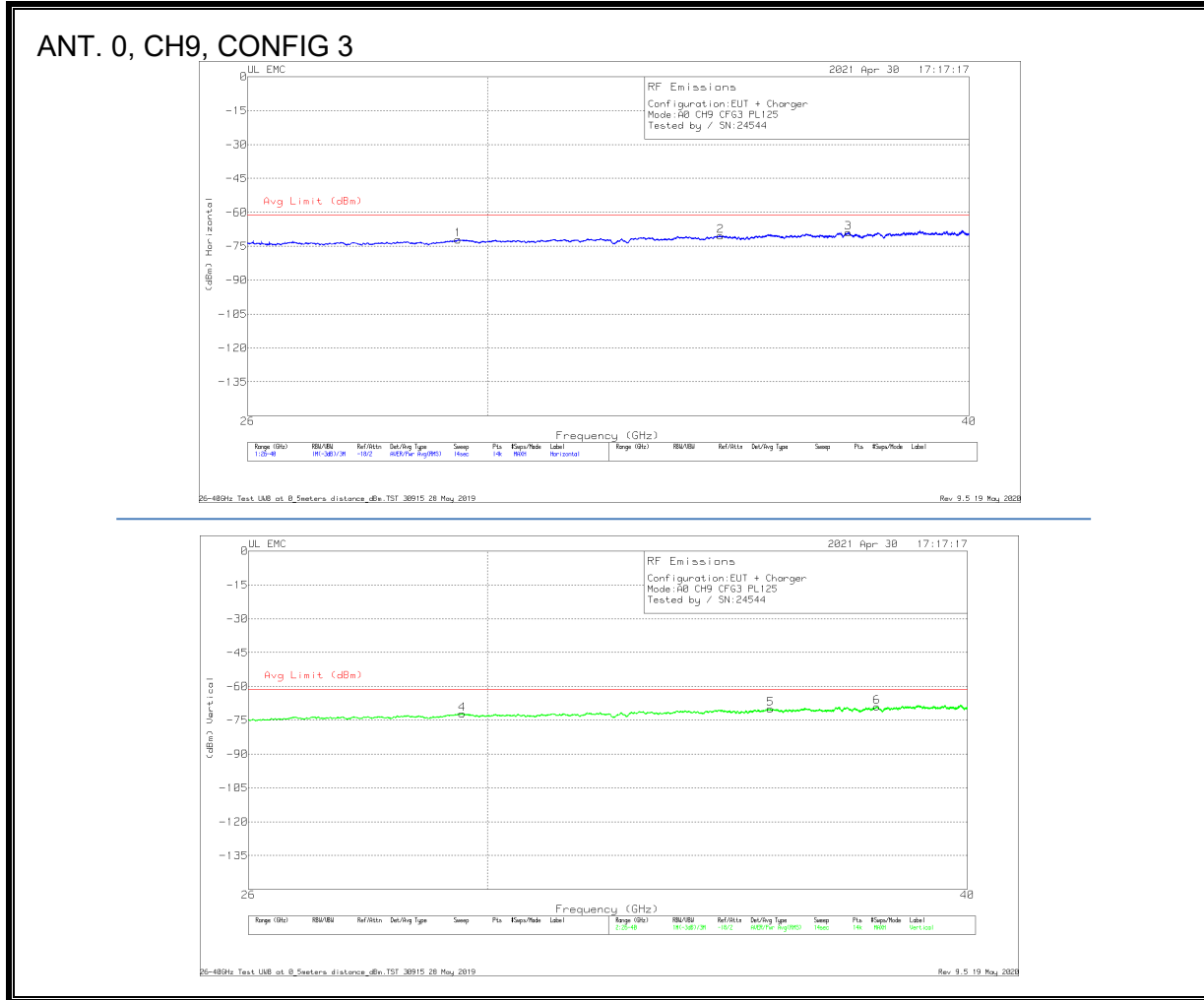


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.462	-82.61	RMS	32.6	-17.6	-15.6	11.8	-71.41	-61.3	-10.11	H
2	22.594	-81.7	RMS	33.4	-18.5	-15.6	11.8	-70.6	-61.3	-9.3	H
3	25.231	-79.91	RMS	34.2	-17.6	-15.6	11.8	-67.11	-61.3	-5.81	H
4	19.281	-82.79	RMS	32.7	-18.1	-15.6	11.8	-71.99	-61.3	-10.69	V
5	23.424	-81.76	RMS	33.8	-18.5	-15.6	11.8	-70.26	-61.3	-8.96	V
6	24.681	-82.22	RMS	34	-17	-15.6	11.8	-69.02	-61.3	-7.72	V

RMS - RMS detection

**9.6.6. AVERAGE EMISSIONS, 26 – 40 GHz**



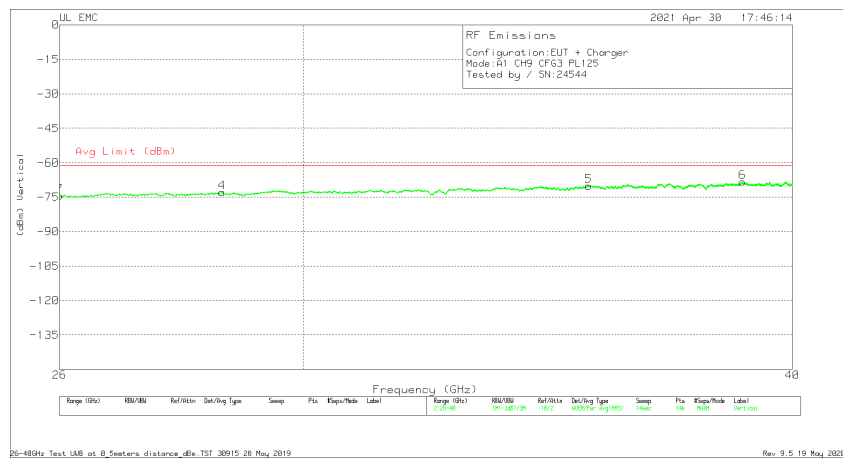
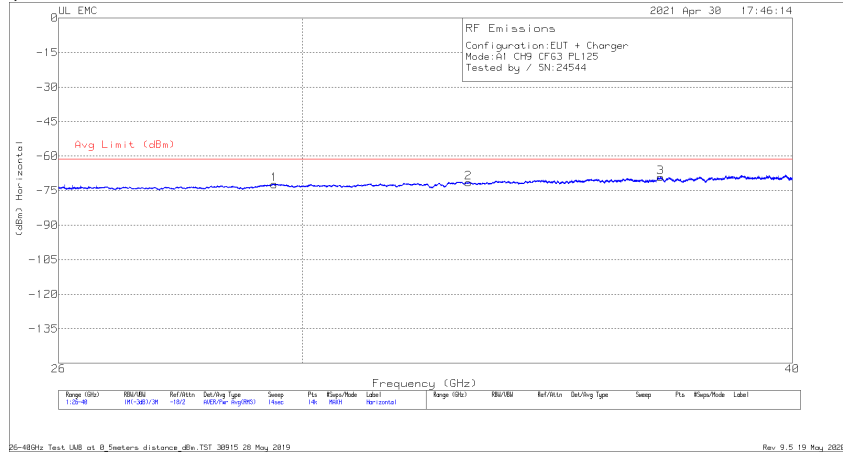
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	29.48	-80.3	RMS	37	-24.9	-15.6	11.8	-72	-61.3	-10.7	H
2	34.48	-80.29	RMS	37.4	-23.7	-15.6	11.8	-70.39	-61.3	-9.09	H
3	37.21	-80.09	RMS	38.2	-23.3	-15.6	11.8	-68.99	-61.3	-7.69	H
4	29.554	-80.57	RMS	37.1	-24.8	-15.6	11.8	-72.07	-61.3	-10.77	V
5	35.545	-80.18	RMS	37.6	-23.5	-15.6	11.8	-69.88	-61.3	-8.58	V
6	37.887	-80.49	RMS	38.1	-22.8	-15.6	11.8	-68.99	-61.3	-7.69	V

RMS - RMS detection



ANT. 1, CH9, CONFIG 3

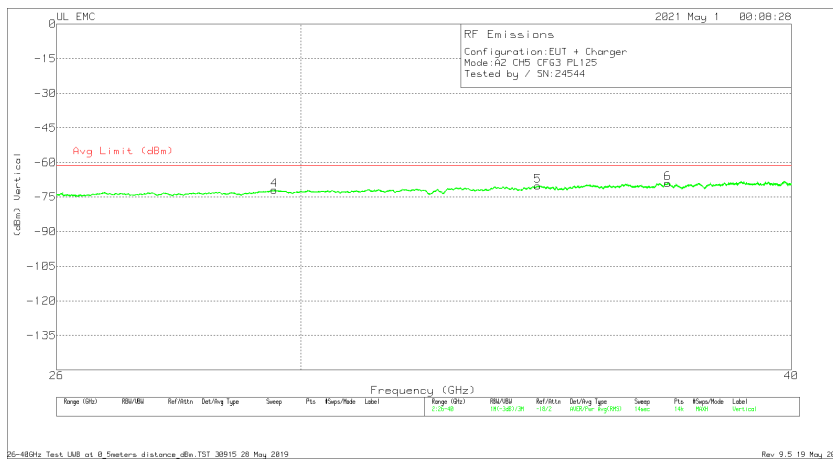
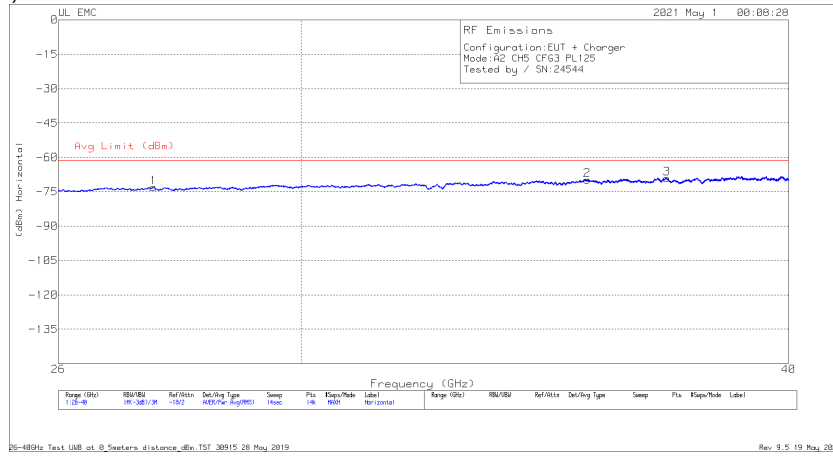


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	29.508	-80.75	RMS	37.1	-24.8	-15.6	11.8	-72.25	-61.3	-10.95	H
2	33.071	-79.76	RMS	37.2	-25.1	-15.6	11.8	-71.46	-61.3	-10.16	H
3	37.019	-80.66	RMS	38.1	-22.8	-15.6	11.8	-69.16	-61.3	-7.86	H
4	28.607	-80.27	RMS	36.4	-25.2	-15.6	11.8	-72.87	-61.3	-11.57	V
5	35.481	-80.53	RMS	37.7	-23.4	-15.6	11.8	-70.03	-61.3	-8.73	V
6	38.84	-80.49	RMS	38.5	-22.5	-15.6	11.8	-68.29	-61.3	-6.99	V
7	26.001	-76.57	RMS	35.7	-29.7	-15.6	11.8	-74.37	-61.3	-13.07	V

RMS - RMS detection

ANT. 2, CH5, CONFIG 3

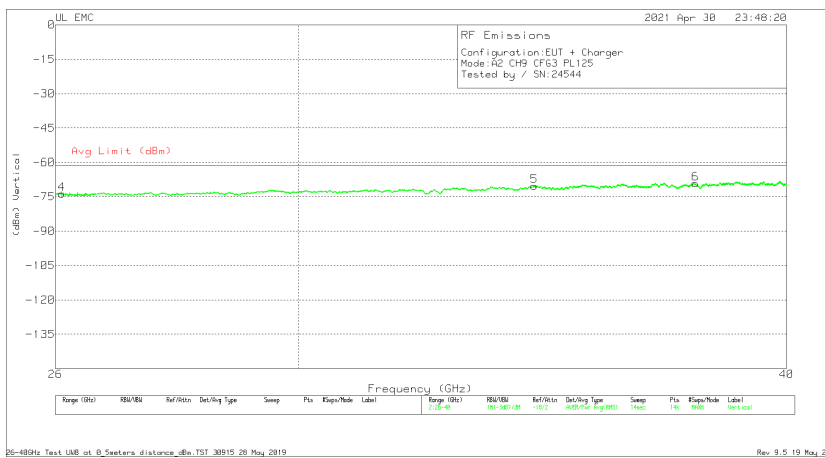
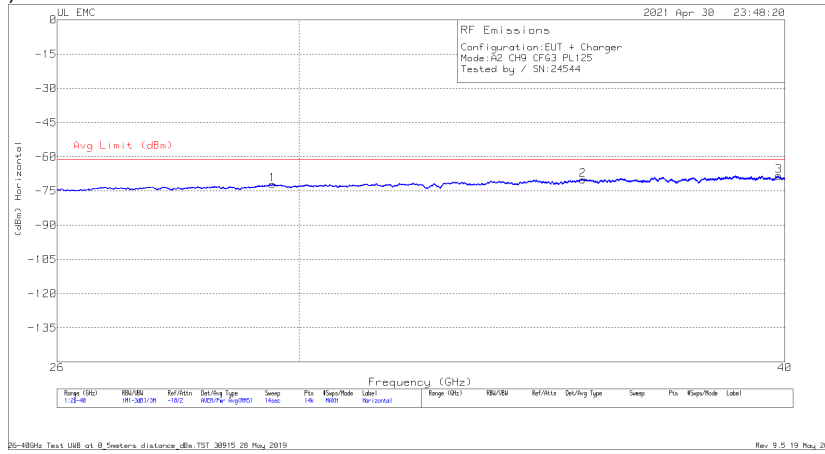


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	27.501	-78.07	RMS	36.1	-27.3	-15.6	11.8	-73.07	-61.3	-11.77	H
2	35.517	-80.01	RMS	37.7	-23.7	-15.6	11.8	-69.81	-61.3	-8.51	H
3	37.223	-80.21	RMS	38.2	-23.3	-15.6	11.8	-69.11	-61.3	-7.81	H
4	29.537	-80.58	RMS	37.1	-24.7	-15.6	11.8	-71.98	-61.3	-10.68	V
5	34.473	-80.05	RMS	37.4	-23.7	-15.6	11.8	-70.15	-61.3	-8.85	V
6	37.201	-79.99	RMS	38.2	-23.4	-15.6	11.8	-68.99	-61.3	-7.69	V

RMS - RMS detection

ANT. 2, CH9, CONFIG 3

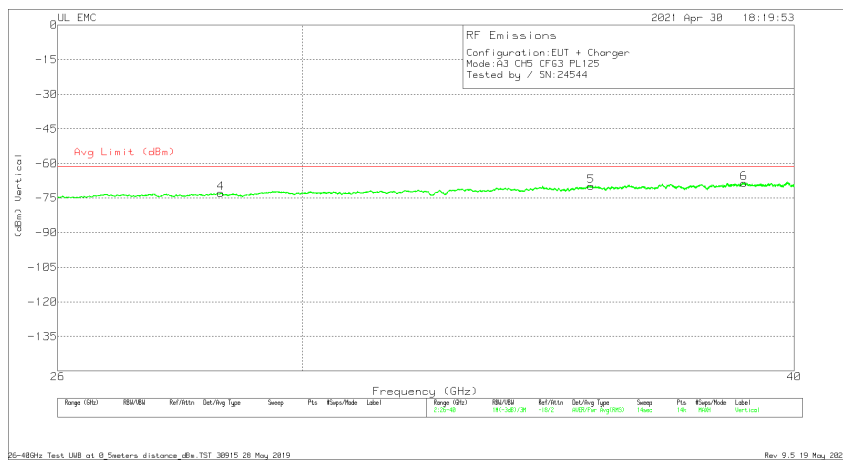
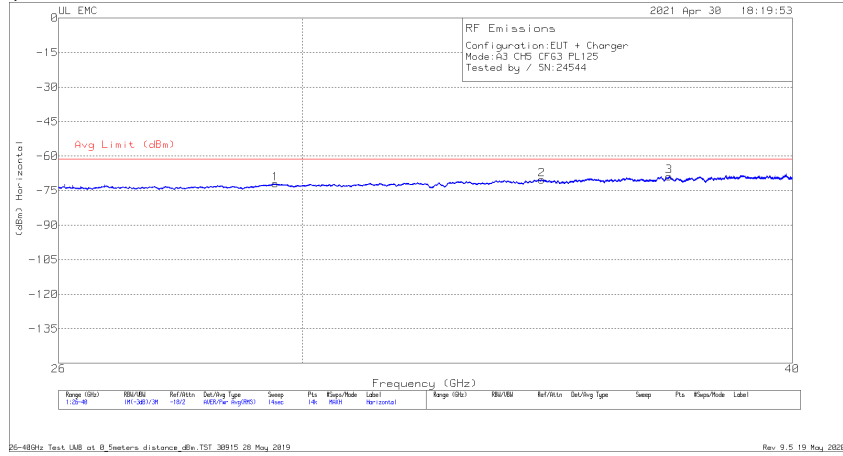


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	29.532	-80.7	RMS	37.1	-24.7	-15.6	11.8	-72.1	-61.3	-10.8	H
2	35.489	-80.57	RMS	37.7	-23.4	-15.6	11.8	-70.07	-61.3	-8.77	H
3	39.854	-81.35	RMS	38.6	-21.8	-15.6	11.8	-68.35	-61.3	-7.05	H
4	26.1	-75.78	RMS	35.4	-29.5	-15.6	11.8	-73.68	-61.3	-12.38	V
5	34.472	-80.2	RMS	37.4	-23.7	-15.6	11.8	-70.3	-61.3	-9	V
6	37.904	-80.55	RMS	38.1	-23	-15.6	11.8	-69.25	-61.3	-7.95	V

RMS - RMS detection

ANT. 3, CH5, CONFIG 3

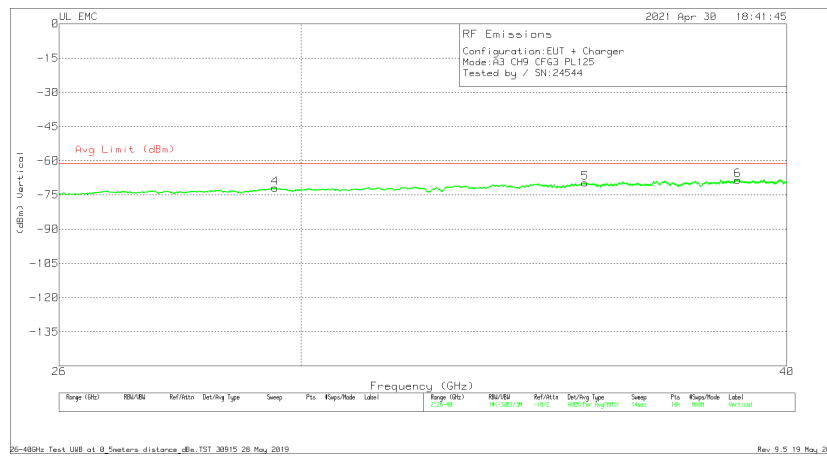
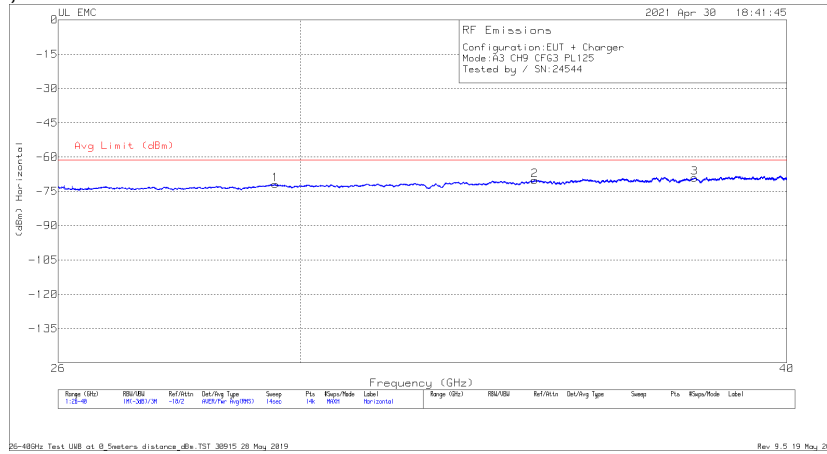


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	29.528	-80.54	RMS	37.1	-24.7	-15.6	11.8	-71.94	-61.3	-10.64	H
2	34.527	-79.92	RMS	37.4	-23.9	-15.6	11.8	-70.22	-61.3	-8.92	H
3	37.205	-79.9	RMS	38.2	-23.3	-15.6	11.8	-68.8	-61.3	-7.5	H
4	28.601	-80.16	RMS	36.4	-25.3	-15.6	11.8	-72.86	-61.3	-11.56	V
5	35.514	-80.12	RMS	37.8	-23.7	-15.6	11.8	-69.82	-61.3	-8.52	V
6	38.841	-80.69	RMS	38.5	-22.5	-15.6	11.8	-68.49	-61.3	-7.19	V

RMS - RMS detection

ANT. 3, CH9, CONFIG 3



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	29.561	-80.3	RMS	37.1	-24.9	-15.6	11.8	-71.9	-61.3	-10.6	H
2	34.457	-79.86	RMS	37.5	-23.9	-15.6	11.8	-70.06	-61.3	-8.76	H
3	37.874	-80.67	RMS	38.1	-22.7	-15.6	11.8	-69.07	-61.3	-7.77	H
4	29.546	-80.5	RMS	37.1	-24.7	-15.6	11.8	-71.9	-61.3	-10.6	V
5	35.496	-80.15	RMS	37.8	-23.5	-15.6	11.8	-69.65	-61.3	-8.35	V
6	38.852	-80.57	RMS	38.5	-22.6	-15.6	11.8	-68.47	-61.3	-7.17	V

RMS - RMS detection

**9.7. AC POWER LINE CONDUCTED EMISSIONS****LIMITS**

FCC §15.207 (a) &amp; RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 <sup>*</sup>	56 to 46 <sup>*</sup>
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency.

**TEST PROCEDURE**

ANSI C63.10 Section 6.2

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

**RESULTS**

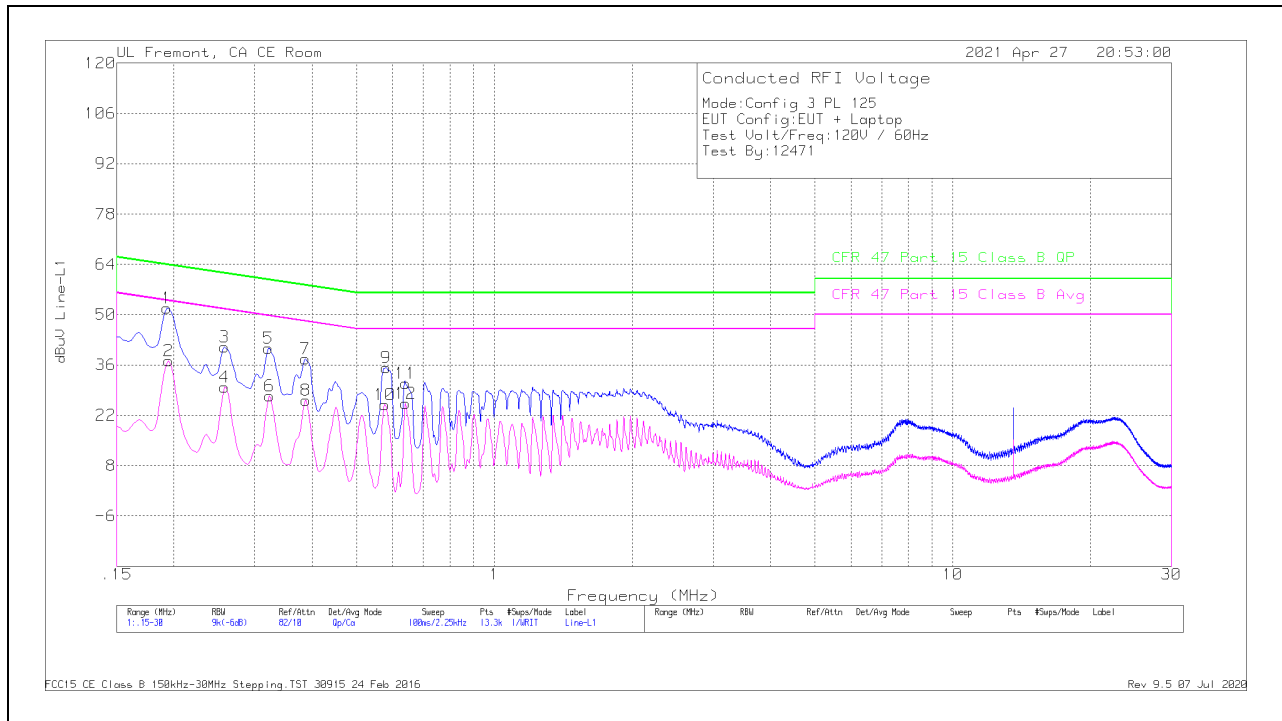
Employee IDs: 12471

Location: Immunity Test Room

Test Date: 04/27/2021

9.7.1. AC Power Line With Laptop

LINE 1 RESULTS



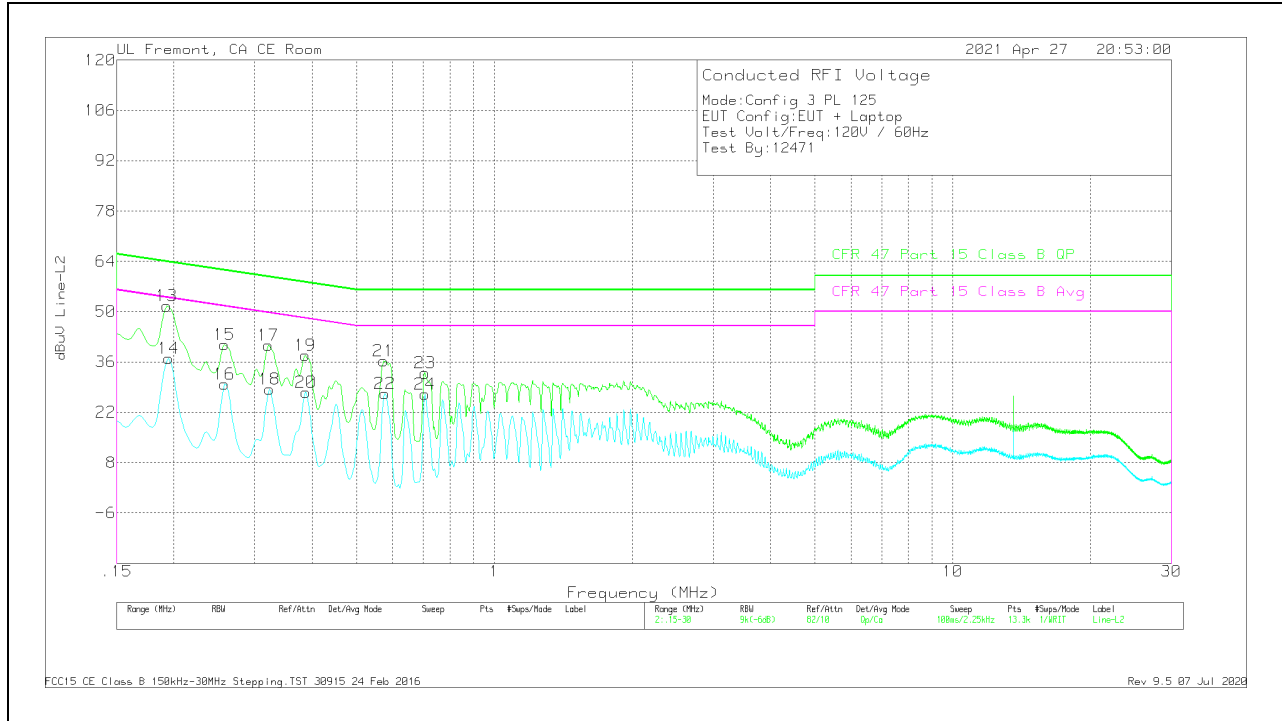
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186446 L1	LC Cables C1&C3 dB	Limiter	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.19275	41.71	Qp	0	0	10.1	51.81	63.92	-12.11	-	-
2	.195	27.02	Ca	0	0	10.1	37.12	-	-	53.82	-16.7
3	.258	30.86	Qp	0	0	10.1	40.96	61.5	-20.54	-	-
4	.258	19.68	Ca	0	0	10.1	29.78	-	-	51.5	-21.72
5	.321	30.58	Qp	0	0	10.1	40.68	59.68	-19	-	-
6	.32325	17.3	Ca	0	0	10.1	27.4	-	-	49.62	-22.22
7	.38625	27.67	Qp	0	0	10.1	37.77	58.14	-20.37	-	-
8	.3885	16.12	Ca	0	0	10.1	26.22	-	-	48.1	-21.88
9	.57975	25.22	Qp	0	0	10.1	35.32	56	-20.68	-	-
10	.5775	14.84	Ca	0	0	10.1	24.94	-	-	46	-21.06
11	.6405	20.81	Qp	0	0	10.1	30.91	56	-25.09	-	-
12	.6405	15.17	Ca	0	0	10.1	25.27	-	-	46	-20.73

Qp - Quasi-Peak detector

Ca - CISPR average detection

### LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

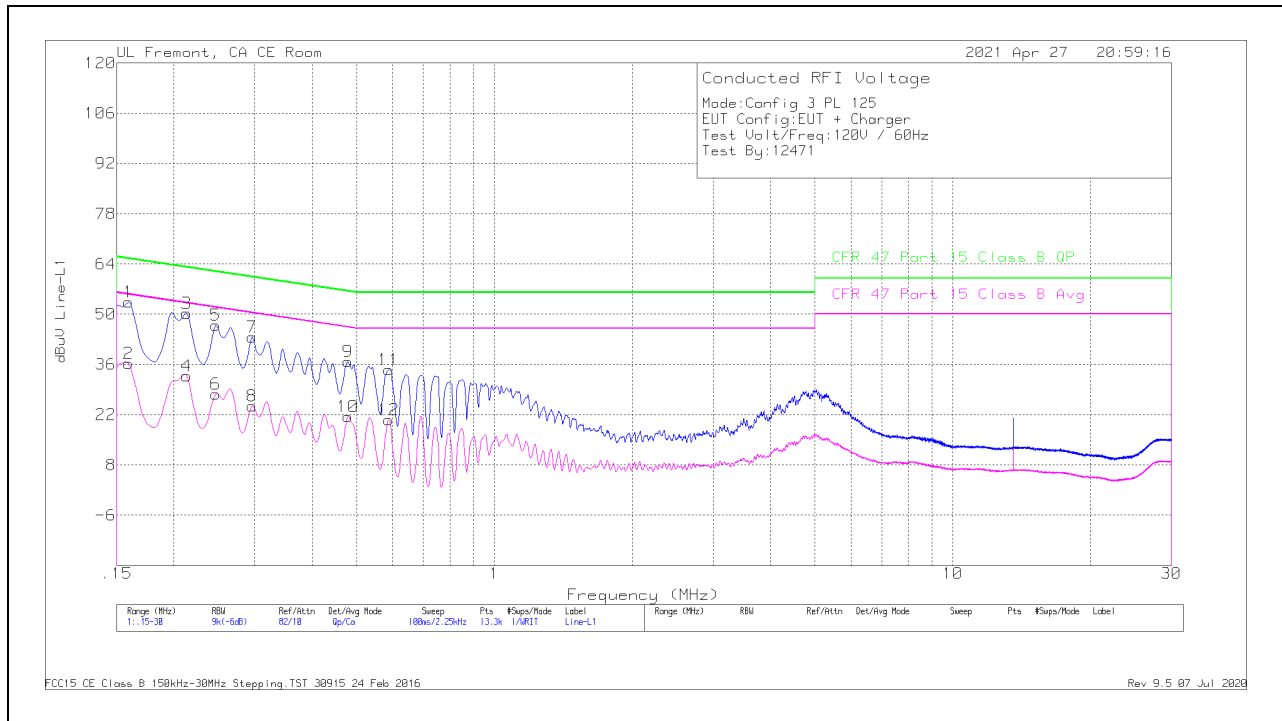
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186446 L2	LC Cables C2&C3 dB	Limiter	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
13	.19275	41.47	Qp	0	0	10.1	51.57	63.92	-12.35	-	-
14	.195	26.89	Ca	0	0	10.1	36.99	-	-	53.82	-16.83
15	.258	30.76	Qp	0	0	10.1	40.86	61.5	-20.64	-	-
16	.258	19.72	Ca	0	0	10.1	29.82	-	-	51.5	-21.68
17	.321	30.54	Qp	0	0	10.1	40.64	59.68	-19.04	-	-
18	.32325	18.27	Ca	0	0	10.1	28.37	-	-	49.62	-21.25
19	.38625	27.77	Qp	0	0	10.1	37.87	58.14	-20.27	-	-
20	.3885	17.48	Ca	0	0	10.1	27.58	-	-	48.1	-20.52
21	.573	26.15	Qp	0	0	10.1	36.25	56	-19.75	-	-
22	.5775	17.05	Ca	0	0	10.1	27.15	-	-	46	-18.85
23	.70575	22.8	Qp	0	0	10.1	32.9	56	-23.1	-	-
24	.70575	16.9	Ca	0	0	10.1	27	-	-	46	-19

Qp - Quasi-Peak detector  
Ca - CISPR average detection



9.7.2. AC Power Line With AC/DC Adapter

LINE 1 RESULTS

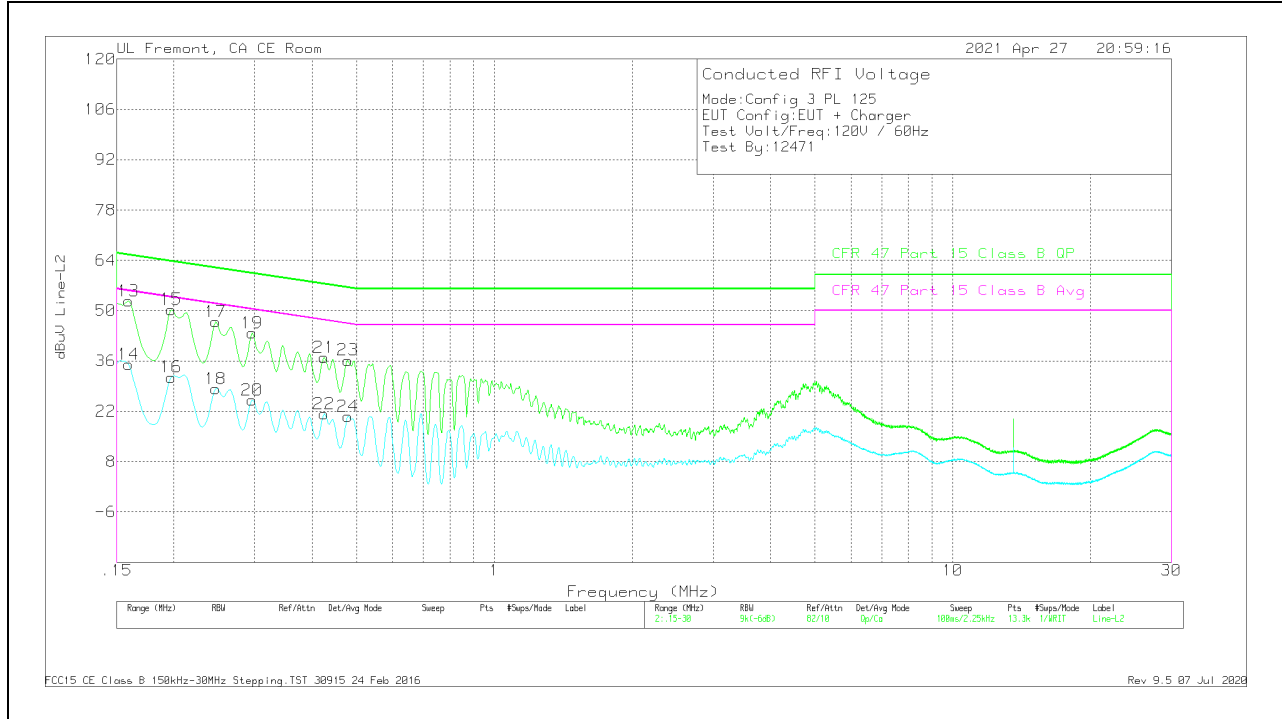


Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186446 L1	LC Cables C1&C3 dB	Limiter	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.159	43.26	Qp	.1	0	10.1	53.46	65.52	-12.06	-	-
2	.159	26.12	Ca	.1	0	10.1	36.32	-	-	55.52	-19.2
3	.213	40.08	Qp	0	0	10.1	50.18	63.09	-12.91	-	-
4	.213	22.67	Ca	0	0	10.1	32.77	-	-	53.09	-20.32
5	.24675	36.9	Qp	0	0	10.1	47	61.87	-14.87	-	-
6	.24675	17.6	Ca	0	0	10.1	27.7	-	-	51.87	-24.17
7	.29625	33.57	Qp	0	0	10.1	43.67	60.35	-16.68	-	-
8	.29625	14.33	Ca	0	0	10.1	24.43	-	-	50.35	-25.92
9	.4785	26.67	Qp	0	0	10.1	36.77	56.37	-19.6	-	-
10	.4785	11.36	Ca	0	0	10.1	21.46	-	-	46.37	-24.91
11	.58875	24.41	Qp	0	0	10.1	34.51	56	-21.49	-	-
12	.58875	10.43	Ca	0	0	10.1	20.53	-	-	46	-25.47

Qp - Quasi-Peak detector  
 Ca - CISPR average detection

**LINE 2 RESULTS**



**Range 2: Line-L2 .15 - 30MHz**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186446 L2	LC Cables C2&C3 dB	Limiter	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
13	.159	42.63	Qp	0	0	10.1	52.73	65.52	-12.79	-	-
14	.159	24.96	Ca	0	0	10.1	35.06	-	-	55.52	-20.46
15	.19725	40.24	Qp	0	0	10.1	50.34	63.73	-13.39	-	-
16	.19725	21.4	Ca	0	0	10.1	31.5	-	-	53.73	-22.23
17	.24675	36.89	Qp	0	0	10.1	46.99	61.87	-14.88	-	-
18	.24675	18.16	Ca	0	0	10.1	28.26	-	-	51.87	-23.61
19	.29625	33.68	Qp	0	0	10.1	43.78	60.35	-16.57	-	-
20	.29625	14.99	Ca	0	0	10.1	25.09	-	-	50.35	-25.26
21	.4245	26.88	Qp	0	0	10.1	36.98	57.36	-20.38	-	-
22	.4245	11.13	Ca	0	0	10.1	21.23	-	-	47.36	-26.13
23	.4785	26.11	Qp	0	0	10.1	36.21	56.37	-20.16	-	-
24	.4785	10.46	Ca	0	0	10.1	20.56	-	-	46.37	-25.81

Qp - Quasi-Peak detector  
 Ca - CISPR average detection

**END OF REPORT**

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## **10. SETUP PHOTOS**

Please refer to 13584001-EP14V1 for setup photos.