

To: FCC STA Review Committee
From: Wen-Ping Ying, HTC America
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Applicant: HTC America

Request for info from FCC –

With respect to authorization of operation in the 3700-3800 MHz band included in this coordination, WTB/Mobility Division requests additional information on how the applicant will avoid causing harmful interference to incumbent operators in this band, including FSS earth stations. A list of registered incumbent FSS earth stations in the band can be found at the following link: <https://docs.fcc.gov/public/attachments/DA-20-823A2.xls>

Response from HTC -

1. **With respect to the frequencies in the 3700 - 3800 MHz band, here is our analysis that the operation of the radio for this trial application will not interfere with the operation of the incumbent FSS operators in this band.**

Here is the detailed analysis.

Below is LA convention Center location information where MWC 2021 will take place at, and HTC plans to set up the demo -

Antenna Information

File Number: 1531-EX-ST-2021
Antenna Location: Fixed Los Angeles, California
Coordinates: 34 2 26 N latitude 118 16 10 W longitude
Area of Operation:
Street Address: 1201 S Figueroa St, Los Angeles, CA 90015
City: Los Angeles
State: California
Radius of Operation: 0.01

Los Angeles Convention Center

1201 S Figueroa St, Los Angeles, CA 90015

34.04048959763828, -118.26950875940841

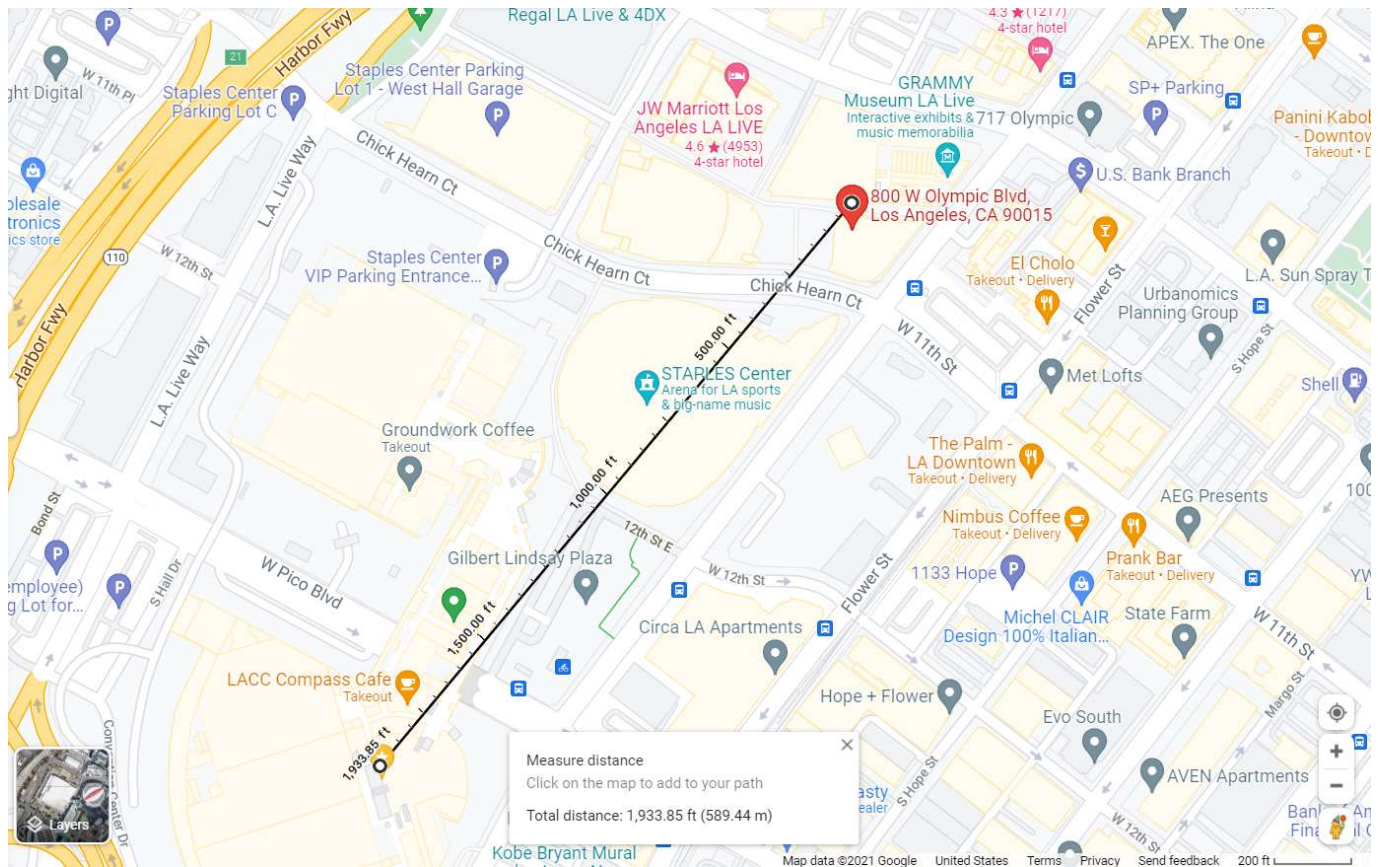
Station Location

City	State	Latitude	Longitude	Mobile	Radius of Operation
Los Angeles	California	North 34 2 26	West 118 16 10		0.01
Datum: NAD 83					

According to the Excel dataset from <https://docs.fcc.gov/public/attachments/DA-20-823A2.xls>, there are three FSS operators in the same postal ZIP code 90015 as the convention center, which are listed below. The two ESPN licenses are operated from the same location.

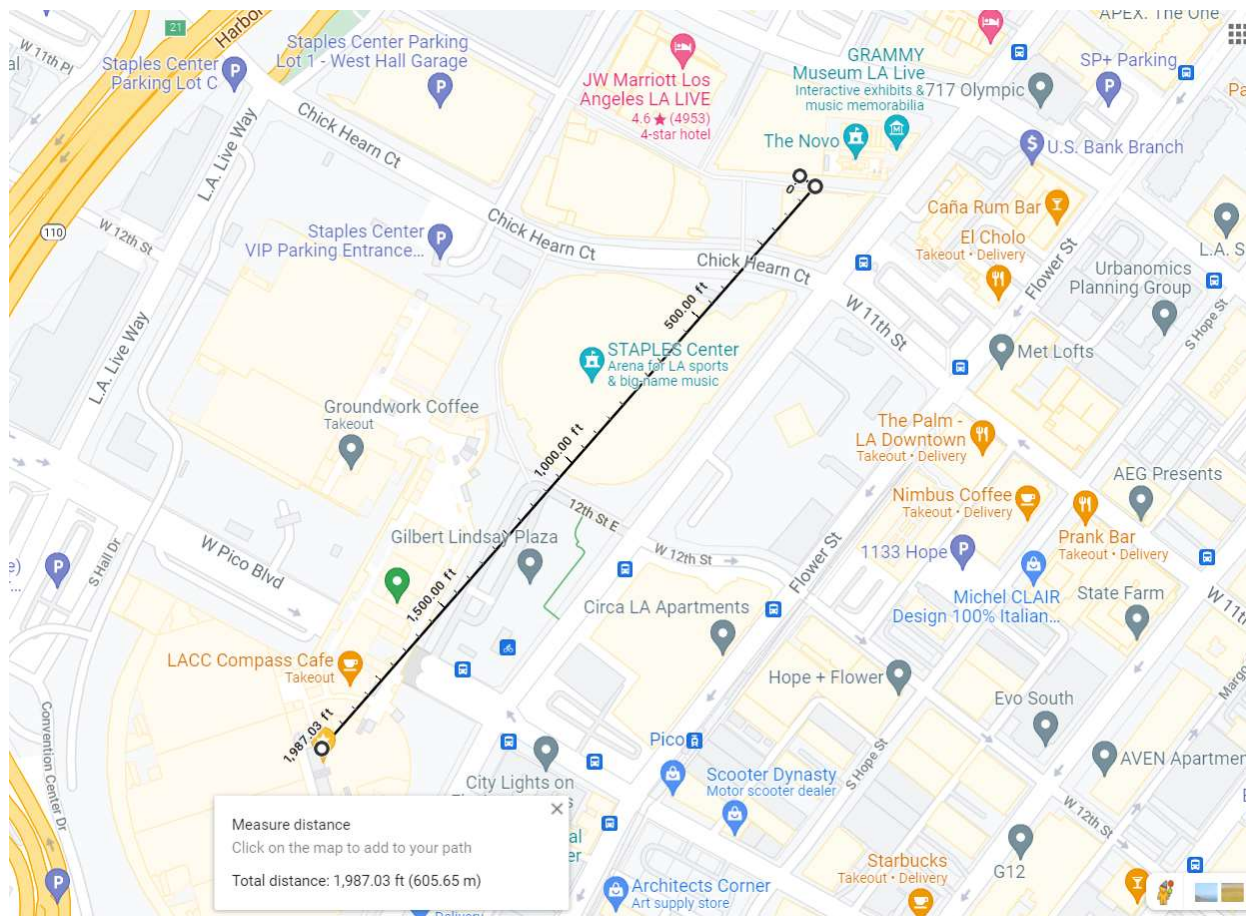
ApplicantName	Callsign	Class Of Earth Station	SiteStreet1	SiteCity	Site State	Site Zip Code	LatDeg	LatMin	LatSec	LatHem	LonDeg	LonMin	LonSec	LonHem
ABC Radio Los Angeles Assets, LLC	E190761	FES	800 W. Olympic Blvd.	LOS ANGELES	CA	90015	34	2	40.3	N	118	15	55.9	W
ESPN, Inc.	E180554	FES	1011 South Figueroa Street	LOS ANGELES	CA	90015	34	2	38.4	N	118	15	55.8	W
ESPN, Inc.	E180554	FES	1011 South Figueroa Street	Los Angeles	CA	90015	34	2	38.4	N	118	15	55.8	W

The closest FSS earth station location, which is operated by ABC Radio, is at 800 W. Olympic Blvd. LA. The distance between the nearest one and the Convention Center is about 589M.



The second closest one, which is located at 1011 South Figueroa Street, is about 605M from the convention center, the demo location.

ApplicantName	Callsign	Class Of Earth Station	SiteStreet1	SiteCity	Site State	Site Zip Code	LatDeg	LatMin	LatSec	LatHem	LonDeg	LonMin	LonSec	LonHem
ESPN, Inc.	E180554	FES	1011 South Figueroa Street	LOS ANGELES	CA	90015	34	2	38.4	N	118	15	55.8	W
ESPN, Inc.	E180554	FES	1011 South Figueroa Street	Los Angeles	CA	90015	34	2	38.4	N	118	15	55.8	W



The demo room at MWC T-Mobile exhibition area will be 5M x 5M. The RU TX power (downlink) will be limited to (max) 10dBm per port (2x2). We will also control the Tx power such that the **the RSRP will be less than -125dBm measured at the perimeter of the convention center,** including the attenuation from exhibition hall concrete walls and building structure etc).

With this provisioning in place, the 3.7GHz radio signal RSRP will be less than -225 dBm when it reaches ABC Radio FFS site at 800 W. Olympic Blvd (the free space loss is about 99.21 dB for 3.7GHz with distance of 589M). Similarly, the RSRP of the 3.7GHz radio signal will also be less than -225 dBm when it reaches ESPN FFS site at 1011 South Figueroa Street (the free space loss is about 99.44 dB for 3.7GHz with distance of 605M),

Therefore, we concluded that this signal level will not affect any incumbent operators outside the radius of 100 meter from the trial location.

HTC Radio Team