

## **Exhibit B**

### **18 GHz Frequency Coordination Report**

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**Inmarsat Inc.**  
**SOUTHBURY, CT**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
November 12, 2021

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## **1. CONCLUSIONS**

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

## **2. SUMMARY OF RESULTS**

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

### 3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 09/15/2021.

Company

AT&T Corp.  
American Broadcasting Companies, Inc.  
Bergen, County of  
Bloomfield Center Fire District  
Blue Blazer (DE) LLC  
Blueline Communications  
Borough of Fort Lee, New Jersey  
Business Only Broadband, LLC  
CBS Communications Services Inc  
CSC Holdings LLC  
Cablevision Lightpath, Inc.  
Cellco Partnership - (W-NY)  
Central Hudson Gas & Electric Corp.  
Chevra Hatzalah Inc.  
City of New York  
City of Springfield Police Department  
City of Westfield  
City of Yonkers, NY (Dept of Public Works)  
Clearwire Spectrum Holdings III, LLC  
Community Products, LLC  
Electric Railroad, LLC  
Entercom License, LLC  
Federal Home Loan Bank of New York  
Geodesic Networks LLC  
Greenwich, Town of (CT)  
Hauppauge Fire District  
High Voltage Communications LLC (CFN)  
Highway Networks, LLC  
Hoboken Fire Department  
Holtec Decommissioning International, LL  
Holyoke, City of  
Jefferson Microwave, LLC  
Lawrence School District  
Lehman College  
MTA - Long Island Railroad  
Mahwah Township New Jersey  
Manchester Town Police Department  
Marcus Spectrum Holdings, LLC  
Middletown, City of  
Mineola Union Free School District

Mount Sinai Hospital  
NBC Telemundo License LLC  
NW Technologies, LLC  
Nassau County Government  
Nassau County Police Department  
New Cingular Wireless PCS LLC - NJ  
New Cingular Wireless PCS, LLC (NY)  
New Line Networks, LLC  
New York City Police TARU  
New York Communications Co., Inc  
New York Methodist Hospital  
New York Power Authority  
New York SMSA Limited Partnership  
New York State Electric & Gas Corp  
New York, State of Div of State Police  
Pierce Broadband, LLC  
Portland, Town of  
Sachem Central School District  
Sesame Workshop  
Simsbury Fire District  
Simsbury, Town Of  
South Windsor Police  
Sprint Spectrum LLC  
Sprintcom, Inc  
St. Lukes Cornwall Hospital  
T-Mobile License LLC  
Towerstream Corp.  
Town Of Berlin  
Town of Greenburgh  
Town of North Hempstead  
Town of Smithtown Dept of Public Safety  
Town of Westport Connecticut  
Town of Wethersfield  
Verizon Wireless (VAW) LLC (NY)  
Vernon Police Department  
Vernon, Town of  
Weehawken, Township of  
West Springfield, Town of Fire Dept  
Westchester, County of  
Widmo Holdings LLC  
William Paterson University  
Windsor Town Connecticut  
Wireless Internetnetwork LLC  
Xchange Telecom Corporation  
Zen Networks, Inc

## **4. EARTH STATION COORDINATION DATA**

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.



# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5500 <http://www.comsearch.com>

Date: 11/12/2021  
Job Number: 210915COMSGE03

### Administrative Information

Status: ENGINEER PROPOSAL  
Call Sign:  
Licensee Code: INMSAT  
Licensee Name: Inmarsat Inc.

### Site Information

Venue Name: SOUTHBURY, CT  
Latitude (NAD 83): 41° 27' 6.7" N  
Longitude (NAD 83): 73° 17' 23.6" W  
Climate Zone: A  
Rain Zone: 2  
Ground Elevation (AMSL): 44.32 m / 145.4 ft

### Link Information

Satellite Type: Geostationary  
Mode: TR - Transmit-Receive  
Modulation: Digital  
Satellite Arc: 28° W to 55° West Longitude  
Azimuth Range: 123.2° to 153.5°  
Corresponding Elevation Angles: 23.9° / 38.6°  
Antenna Centerline (AGL): 9.14 m / 30.0 ft

### Antenna Information

Manufacturer:  
Model:  
Gain / Diameter:  
3-dB / 15-dB Beamwidth:

#### Receive - FCC32

General Dynamics  
13.2 Ka  
65.6 dBi / 13.2 m  
0.09° / 0.17°

#### Transmit - FCC32

General Dynamics  
13.2 Ka  
68.9 dBi / 13.2 m  
0.06° / 0.13°

Max Available RF Power (dBW/4 kHz)  
(dBW/MHz)

-27.9  
-3.9

Maximum EIRP (dBW/4 kHz)  
(dBW/MHz)

41.0  
65.0

Interference Objectives: Long Term -156.7 dBW/MHz 20%  
Short Term -146.7 dBW/MHz 0.01%

-151.0 dBW/4 kHz 20%  
-128.0 dBW/4 kHz 0.0025%

### Frequency Information

Emission / Frequency Range (MHz): 10K0G7W - 320MG7W / 17700.0 - 19700.0

#### Receive 18.0 GHz

#### Transmit 28.0 GHz

10K0G7W - 320MG7W / 27500.0 - 29500.0

Max Great Circle Coordination Distance: 101.3 km / 63.0 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

100.0 km / 62.1 mi  
100.0 km / 62.1 mi

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5500 <http://www.comsearch.com>

### Coordination Values

### SOUTHBURY, CT

Licensee Name Inmarsat Inc.  
Latitude (NAD 83) 41° 27' 6.7" N  
Longitude (NAD 83) 73° 17' 23.6" W  
Ground Elevation (AMSL) 44.32 m / 145.4 ft  
Antenna Centerline (AGL) 9.14 m / 30.0 ft  
Antenna Model General Dynamics 13.2 meter  
Antenna Mode Receive 18.0 GHz Transmit 28.0 GHz  
Interference Objectives: Long Term -156.7 dBW/MHz 20% -151.0 dBW/4 kHz 20%  
Short Term -146.7 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%  
Max Available RF Power -27.9 (dBW/4 kHz)

| Azimuth (°) | Horizon<br>Elevation (°) | Antenna<br>Discrimination (°) | Receive 18.0 GHz      |                               | Transmit 28.0 GHz     |                               |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|
|             |                          |                               | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) |
| 0           | 4.62                     | 121.16                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 5           | 4.48                     | 116.51                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 10          | 4.12                     | 111.80                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 15          | 3.47                     | 107.06                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 20          | 3.80                     | 102.42                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 25          | 3.78                     | 97.74                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 30          | 3.73                     | 93.04                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 35          | 3.85                     | 88.35                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 40          | 3.82                     | 83.65                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 45          | 3.67                     | 78.97                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 50          | 3.29                     | 74.34                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 55          | 2.87                     | 69.75                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 60          | 2.74                     | 65.17                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 65          | 2.21                     | 60.71                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 70          | 2.07                     | 56.24                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 75          | 2.24                     | 51.75                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 80          | 2.20                     | 47.39                         | -9.89                 | 100.00                        | -9.89                 | 100.00                        |
| 85          | 2.03                     | 43.19                         | -8.89                 | 100.00                        | -8.89                 | 100.00                        |
| 90          | 1.96                     | 39.11                         | -7.81                 | 100.00                        | -7.81                 | 100.00                        |
| 95          | 1.96                     | 35.18                         | -6.66                 | 100.00                        | -6.66                 | 100.00                        |
| 100         | 1.91                     | 31.55                         | -5.48                 | 100.00                        | -5.48                 | 100.00                        |
| 105         | 1.70                     | 28.41                         | -4.34                 | 100.00                        | -4.34                 | 100.00                        |
| 110         | 1.48                     | 25.84                         | -3.31                 | 101.33                        | -3.31                 | 100.00                        |
| 115         | 2.37                     | 22.96                         | -2.02                 | 100.00                        | -2.02                 | 100.00                        |
| 120         | 3.67                     | 20.45                         | -0.77                 | 100.00                        | -0.77                 | 100.00                        |
| 125         | 4.80                     | 19.15                         | -0.06                 | 100.00                        | -0.06                 | 100.00                        |
| 130         | 5.88                     | 19.18                         | -0.07                 | 100.00                        | -0.07                 | 100.00                        |
| 135         | 5.81                     | 21.45                         | -1.29                 | 100.00                        | -1.29                 | 100.00                        |
| 140         | 5.51                     | 24.49                         | -2.73                 | 100.00                        | -2.73                 | 100.00                        |
| 145         | 5.96                     | 26.76                         | -3.69                 | 100.00                        | -3.69                 | 100.00                        |
| 150         | 5.93                     | 29.16                         | -4.62                 | 100.00                        | -4.62                 | 100.00                        |
| 155         | 5.64                     | 31.50                         | -5.46                 | 100.00                        | -5.46                 | 100.00                        |
| 160         | 5.02                     | 33.83                         | -6.23                 | 100.00                        | -6.23                 | 100.00                        |
| 165         | 4.03                     | 36.20                         | -6.97                 | 100.00                        | -6.97                 | 100.00                        |
| 170         | 3.30                     | 38.50                         | -7.64                 | 100.00                        | -7.64                 | 100.00                        |
| 175         | 4.06                     | 39.97                         | -8.04                 | 100.00                        | -8.04                 | 100.00                        |
| 180         | 4.02                     | 42.54                         | -8.72                 | 100.00                        | -8.72                 | 100.00                        |
| 185         | 3.49                     | 45.77                         | -9.52                 | 100.00                        | -9.52                 | 100.00                        |

# COMSEARCH

## Earth Station Data Sheet

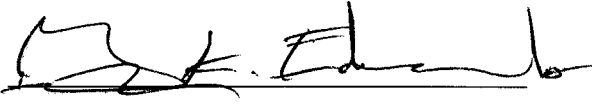
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(703)726-5500 <http://www.comsearch.com>

| Coordination Values      |            | SOUTHBURY, CT               |       |                   |         |
|--------------------------|------------|-----------------------------|-------|-------------------|---------|
| Licensee Name            |            | Inmarsat Inc.               |       |                   |         |
| Latitude (NAD 83)        |            | 41° 27' 6.7" N              |       |                   |         |
| Longitude (NAD 83)       |            | 73° 17' 23.6" W             |       |                   |         |
| Ground Elevation (AMSL)  |            | 44.32 m / 145.4 ft          |       |                   |         |
| Antenna Centerline (AGL) |            | 9.14 m / 30.0 ft            |       |                   |         |
| Antenna Model            |            | General Dynamics 13.2 meter |       |                   |         |
| Antenna Mode             |            | Receive 18.0 GHz            |       | Transmit 28.0 GHz |         |
| Interference Objectives: | Long Term  | -156.7 dBW/MHz              | 20%   | -151.0 dBW/4 kHz  | 20%     |
|                          | Short Term | -146.7 dBW/MHz              | 0.01% | -128.0 dBW/4 kHz  | 0.0025% |
| Max Available RF Power   |            | -27.9 (dBW/4 kHz)           |       |                   |         |

| Azimuth (°) | Horizon<br>Elevation (°) | Antenna<br>Discrimination (°) | Receive 18.0 GHz      |                               | Transmit 28.0 GHz     |                               |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|
|             |                          |                               | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) |
| 190         | 2.98                     | 49.20                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 195         | 2.82                     | 52.59                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 200         | 2.99                     | 55.98                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 205         | 3.30                     | 59.48                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 210         | 3.52                     | 63.17                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 215         | 3.59                     | 67.01                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 220         | 3.22                     | 71.05                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 225         | 2.81                     | 75.10                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 230         | 2.05                     | 79.21                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 235         | 1.46                     | 83.26                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 240         | 1.43                     | 87.23                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 245         | 1.80                     | 91.23                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 250         | 2.04                     | 95.24                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 255         | 1.89                     | 99.22                         | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 260         | 2.10                     | 103.22                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 265         | 2.46                     | 107.24                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 270         | 2.61                     | 111.19                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 275         | 2.60                     | 115.04                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 280         | 2.92                     | 118.92                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 285         | 3.01                     | 122.63                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 290         | 3.26                     | 126.31                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 295         | 4.10                     | 130.20                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 300         | 3.95                     | 133.34                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 305         | 4.63                     | 136.82                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 310         | 4.98                     | 139.82                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 315         | 4.57                     | 141.84                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 320         | 5.23                     | 144.32                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 325         | 5.20                     | 145.69                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 330         | 4.80                     | 146.07                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 335         | 4.42                     | 143.29                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 340         | 4.17                     | 138.96                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 345         | 4.06                     | 134.57                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 350         | 4.18                     | 130.17                        | -10.00                | 100.00                        | -10.00                | 100.00                        |
| 355         | 4.39                     | 125.70                        | -10.00                | 100.00                        | -10.00                | 100.00                        |

## 5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards  
Senior Manager  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147

DATED: November 12, 2021