

Ka-Band Earth Station – Morgantown, WV

Frequency Coordination Report

28 GHz



Prepared on Behalf of
ViaSat, Inc.

July 31, 2021



COMSEARCH
A CommScope Company

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1. Summary of Results

On behalf of ViaSat, Inc., Comsearch issued coordination notice under Section 25.203(c) and Section 25.136(a)(4) of the FCC’s rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka-Band earth station in Morgantown-WV, which will transmit at 28 GHz¹. Prior-notification emails were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on July 29, 2021.

No objections were received from any of the incumbent 28 GHz licensees.

2. 28 GHz UMFUS Coordination

All 28 GHz UMFUS licensees within the coordination distance of the proposed earth station were identified. The proposed earth station will operate on frequencies that overlap Channel L1 & L2 of the UMFUS service. The total frequency allocation for Channels L1 & L2 of the UMFUS spectrum appears below.

Channel: **L1** 27.500 - 27.925 GHz
 L2 27.925 - 28.350 GHz

| Licensee | Authorized Geographic Area |
|------------|----------------------------|
| UScellular | Market Based |

No objections were received from the UMFUS incumbents within coordination distance.

¹ The proposed earth station will operate in the 27.5 – 29.1 GHz & 29.5 – 30.0 GHz portion of the Ka-Band.

3. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka-Band earth station in Morgantown, WV. This data was circulated to all incumbent licensees in the shared 28 GHz frequency ranges.

| | | | |
|-----------------------------------|-----------------------------|------------------|---------|
| Date: | 06/29/2021 | | |
| Job Number: | 210629COMSNR19 | | |
| Administrative Information | | | |
| Status | ENGINEER PROPOSAL | | |
| Call Sign | | | |
| Licensee Code | VIASAT | | |
| Licensee Name | ViaSat, Inc | | |
| Site Information | | | |
| MORGANTOWN, WV | | | |
| Venue Name | | | |
| Latitude (NAD 83) | 39° 38' 02.36" N | | |
| Longitude (NAD 83) | 79° 55' 35.38" W | | |
| Climate Zone | A | | |
| Rain Zone | 2 | | |
| Ground Elevation (AMSL) | 301.06 m / 987.7 ft | | |
| Link Information | | | |
| Satellite Type | Geostationary | | |
| Mode | TO - Transmit-Only | | |
| Modulation | Digital | | |
| Satellite Arc | 78° W to 91° West Longitude | | |
| Azimuth Range | 177.0° to 197.1° | | |
| Corresponding Elevation Angles | 44.1° / 42.7° | | |
| Antenna Centerline (AGL) | 1.2 m / 3.9 ft | | |
| Antenna Information | | | |
| Transmit - VES000 | | | |
| Manufacturer | VIASAT INC. | | |
| Model | 13138XX | | |
| Gain / Diameter | 52.0 dBi / 1.8 m | | |
| 3-dB / 15-dB Beamwidth | 0.40° / 0.80° | | |
| Max Available RF Power | (dBW/4 kHz) | -42.5 | |
| | (dBW/MHz) | -18.5 | |
| Maximum EIRP | (dBW/4 kHz) | 9.5 | |
| | (dBW/MHz) | 33.5 | |
| Interference Objectives: | Long Term | -141.0 dBW/4 kHz | 20% |
| | Short Term | -118.0 dBW/4 kHz | 0.0025% |
| Frequency Information | | | |
| Transmit 28.0 GHz | | | |
| Emission / Frequency Range (MHz) | 464MG7D / 27500.0 - 29500.0 | | |
| Coordination Distance | 3.5 km / 2.18 mi | | |



4. Contact Information

For questions or information regarding the 28 GHz Frequency Coordination Report, please contact:

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