Ka-Band Earth Station – Tupelo, MS Frequency Coordination Report 28 GHz



Prepared on Behalf of ViaSat, Inc.

July 31, 2021





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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 Tupelo-MS, 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 30, 2021.

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

2. 28 GHz Common Carrier Coordination

In accordance with FCC Rules and Regulations, the Ka-Band earth station in Tupelo, MS was prior-coordinated by Comsearch. A notification email, datasheet and Google Earth file showing the area around the site outside which the -77.6 dBm/m2 per MHz threshold value is not exceeded for this earth station were sent to the following 28 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
AT&T	Statewide

No objections were received from the common carrier incumbent.

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 $^{^{1}}$ The proposed earth station will operate in the 27.5 – 29.1 GHz & 29.5 – 30.0 GHz portion of the KaBand.



3. 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
Verizon	Market Based

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



4. Earth Station Coordination Data

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

Date: Job Number:		0/2021 630COMSNR17
Administrative Information Status ENG Call Sign		INEER PROPOSAL
Licensee Code Licensee Name	VIAS ViaS	AT at, Inc
Site Information Venue Name	TUP	ELO, MS
Latitude (NAD 83) Longitude (NAD 83) Climate Zone	88° 4	3' 24.66" N 3' 04.08" W
Rain Zone Ground Elevation (AMSI	A 1 L) 94.51	1 m / 310.1 ft
Link Information Satellite Type Mode Modulation Satellite Arc Azimuth Range Corresponding Elevation Antenna Centerline (AG	TO - Digita 78° V 161.4 n Angles 48.6°	V to 91° West Longitude 4° to 184.1°
Antenna Information Manufacturer Model Gain / Diameter 3-dB / 15-dB Beamwidth		Transmit - VES000 VIASAT INC. 13138XX 52.0 dBi / 1.8 m 0.40° / 0.80°
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)	42.5 -18.5
Maximum EIRP	(dBW/4 kHz) (dBW/MHz)	9.5 33.5
	Long Term Short Term	-141.0 dBW/4 kHz 20% -118.0 dBW/4 kHz 0.0025%
Frequency Information Emission / Frequency Range		Transmit 28.0 GHz 464MG7D / 27500.0 - 29500.0
Coordination Distance		3.5 km / 2.18 mi



5. Contact Information

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

Contact person: Naveen Raghavan
Title: Engineering Manager

Company: Comsearch

Address: 19700 Janelia Farm Blvd., Ashburn, VA 20147

Telephone: 703-726-5648

Email: nraghavan@Comsearch.com

Web site: www.comsearch.com