Ka-Band Earth Station – Moorefield, WV 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 Moorefield-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
T-Mobile	Market Based
UScellular	Market Based

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

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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. Earth Station Coordination Data

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

Date:	06/2	9/2021		
		210629COMSNR31		
Administrative Info	rmation			
		INICED DRODOCAL		
		INEER PROPOSAL		
Call Sign Licensee Code		*AT		
		VIASAT ViaSat, Inc		
Site Information	MO	DREFIELD, WV		
Venue Name		11 40 ET 11		
Latitude (NAD 83)		39° 4' 40.5" N		
Longitude (NAD 83) Climate Zone	78° :	55' 59.4" W		
Rain Zone	2			
Ground Elevation (AMS	_	2 307.37 m / 1008.4 ft		
	,			
Link Information	_	A-P		
Satellite Type		stationary		
Mode Modulation		TO - Transmit-Only		
Satellite Arc		Digital 78° W to 91° West Longitude		
Azimuth Range		5° to 198.7°		
Corresponding Elevation				
Antenna Centerline (A		n / 3.9 ft		
A		T		
Antenna Informatio Manufacturer	n	Transmit - VES000		
Model		VIA5AT INC. 13138XX		
Gain / Diameter		52.0 dBi / 1.8 m		
3-dB / 15-dB Beamwid	th	0.40° / 0.80°		
3-db / 13-db beamwidth		5.46 / 5.56		
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%		
Fraguance Informati	tion	Transmit 28.0 GHz		
Frequency Informat		1ransmit 28.0 GHZ 464MG7D / 27500 0 - 29500 0		
Emission / Frequency Rang	e (MICZ)	404MGTUTZT000.0 - 28000.0		
Coordination Distance		3.5 km / 2.18 mi		



4. Contact Information

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

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