

Ka-Band Earth Station – California, PA

Frequency Coordination Report

28 GHz



Prepared on Behalf of
ViaSat, Inc.

July 31, 2021



Table of Contents

1. Summary of Results	- 2 -
2. 28 GHz UMFUS Coordination	- 2 -
3. Earth Station Coordination Data	- 3 -
4. Contact Information	- 4 -

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 California-PA, 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
Verizon	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 California, PA. This data was circulated to all incumbent licensees in the shared 28 GHz frequency ranges.

Date:	06/29/2021
Job Number:	210629COMSNR02
Administrative Information	
Status	ENGINEER PROPOSAL
Call Sign	
Licensee Code	VIASAT
Licensee Name	ViaSat, Inc
Site Information	
CALIFORNIA, PA	
Venue Name	
Latitude (NAD 83)	40° 04' 2.65" N
Longitude (NAD 83)	79° 54' 2.95" W
Climate Zone	A
Rain Zone	2
Ground Elevation (AMSL)	235.9 m / 773.9 ft
Link Information	
Satellite Type	Geostationary
Mode	TO - Transmit-Only
Modulation	Digital
Satellite Arc	78° W to 91° West Longitude
Azimuth Range	177.1° to 196.9°
Corresponding Elevation Angles	43.6° / 42.2°
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:

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