

V-Band Earth Station – Iowa Falls, IA.

Frequency Coordination Report

V-Band

Receive: 37.5 – 42.0 GHz

Transmit: 47.2 – 50.2, 50.4 – 51.4 GHz



Prepared on Behalf of
AST & SCIENCE, LLC

May 5, 2026



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1. Summary of Results

On behalf of AST & SCIENCE, LLC, Comsearch performed a coordination notice under Section 25.203(c) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed V-Band earth station in Iowa Falls, IA, which will receive at 40 GHz and transmit at 50 GHz¹. Prior-notification letters 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 May 5, 2026.

There are no unresolved objections from any of the incumbent 40/50 GHz licensees.

2. 40/50 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, the V-Band earth station in Iowa Falls, IA was prior-coordinated by Comsearch. A notification letter and datasheets for this earth station were sent to the following 40/50 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
None Identified	

A notification letter and datasheets for the V-Band earth station in Iowa Falls, IA were also sent to the following 40 GHz LTTS licensee. This licensee is authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a market basis.

Licensee	Authorized Geographic Area
Broadcast Sports International, LLC	Nationwide
DCI II Inc	Nationwide
Remote Facilities Consulting Services inc.	Nationwide

¹ The proposed earth station will receive in the 37.5 – 42.0 GHz & transmit in the 47.2-50.5 GHz / 50.4-51.4 GHz portion of the V-Band.



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No objections were received from the common carrier or LTTS incumbents.

3. 40/50 GHz UMFUS Coordination

There were seven 40/50 GHz UMFUS licensees identified within the coordination distance of the proposed earth station. The proposed earth station will operate on frequencies that overlap portions of the UMFUS service which includes the following frequency ranges:

37.6 GHz – 40.0 GHz
47.2 GHz - 48.2 GHz

Licensee	Authorized Geographic Area
Verizon	Market Based
Windstream	Market Based
T-Mobile	Market Based
AT&T	Market Based
DISH Network	Market Based
Monarch Wireless	Market Based
US Cellular	Market Based

There were no objections from the UMFUS incumbents within coordination distance.



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4. Earth Station Coordination Data

This section presents the data pertinent to the proposed V-Band earth station in Iowa Falls, IA. This data was circulated to all incumbent licensees in the shared 40/50 GHz frequency ranges.



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Date: 04/14/2026
 Job Number: <PCNJobCode>

Administrative Information

Status ENGINEER PROPOSAL
 Call Sign <PCNCallSign>
 Licensee Code ASTMOB
 Licensee Name AST & Science, LLC

Site Information IOWA FALLS, IA

Venue Name
 Latitude (NAD 83) 42° 33' 18.9" N
 Longitude (NAD 83) 93° 15' 32.7" W
 Climate Zone A
 Rain Zone 2
 Ground Elevation (AMSL) 352.98 m / 1158.1 ft

Link Information

Satellite Type Low Earth Orbit
 Mode TR - Transmit-Receive
 Modulation Digital
 Minimum Elevation Angle 10.0°
 Azimuth Range 0.0° to 360°
 Antenna Centerline (AGL) 0.52 m / 1.7 ft

Antenna Information

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

Receive - FCC32

SVS Satellite Systems
 SATRAK 400
 55.2 dBi / 2.4 m
 0.22° / 0.44°

Transmit - FCC32

SVS Satellite Systems
 SATRAK 400
 57.3 dBi / 2.4 m
 0.17° / 0.34°

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

-28.7
 -4.7

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

28.6
 52.6

Interference Objectives: Long Term
 20%
 Short Term
 0.0025%

-156.0 dBW/MHz 20%
 -146.0 dBW/MHz 0.01%

-151.0 dBW/4 kHz
 -128.0 dBW/4 kHz

Frequency Information

Emission / Frequency Range (MHz)

Receive 40.0 GHz

5M00D7W - 100MD7W / 37500.0 - 42000.0

Transmit 50.0 GHz

5M00D7W - 100MD7W / 47200.0 - 50200.0
 5M00D7W - 100MD7W / 50400.0 - 51400.0

Max Great Circle Coordination Distance
 Precipitation Scatter Contour Radius

100.0 km / 62.1 mi
 100.0 km / 62.1 mi

100.0 km / 62.1 mi
 100.0 km / 62.1 mi



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Coordination Values		IOWA FALLS, IA					
Licensee Name		AST & Science, LLC					
Latitude (NAD 83)		42° 33' 18.9" N					
Longitude (NAD 83)		93° 15' 32.7" W					
Ground Elevation (AMSL)		352.98 m / 1158.1 ft					
Antenna Centerline (AGL)		0.52 m / 1.7 ft					
Antenna Model		SVS Satellite 2.4 meter					
Antenna Mode		Receive 40.0 GHz		Transmit 50.0 GHz			
Interference Objectives:		Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%	
		Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%	
Max Available RF Power		-28.7 (dBW/4 kHz)					
		Receive 40.0 GHz			Transmit 50.0 GHz		
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)	
0	0.00	87.84	4.00	100.00	4.00	100.00	
5	0.00	82.93	4.00	100.00	4.00	100.00	
10	0.00	78.02	4.00	100.00	4.00	100.00	
15	0.00	73.12	4.00	100.00	4.00	100.00	
20	0.00	68.22	4.00	100.00	4.00	100.00	
25	0.00	63.33	4.00	100.00	4.00	100.00	
30	0.00	58.45	4.00	100.00	4.00	100.00	
35	0.00	53.58	4.00	100.00	4.00	100.00	
40	0.00	48.73	4.00	100.00	4.00	100.00	
45	0.00	43.91	4.00	100.00	4.00	100.00	
50	0.00	39.12	4.00	100.00	4.00	100.00	
55	0.00	34.38	4.00	100.00	4.00	100.00	
60	0.00	29.71	4.00	100.00	4.00	100.00	
65	0.00	25.16	4.00	100.00	4.00	100.00	
70	0.00	20.80	4.00	100.00	4.00	100.00	
75	0.00	16.78	4.00	100.00	4.00	100.00	
80	0.00	13.41	4.00	100.00	4.00	100.00	
85	0.00	11.29	4.00	100.00	4.00	100.00	
90	0.00	11.16	4.00	100.00	4.00	100.00	
95	0.00	13.07	4.00	100.00	4.00	100.00	
100	0.00	16.33	4.00	100.00	4.00	100.00	
105	0.00	20.30	4.00	100.00	4.00	100.00	
110	0.00	24.63	4.00	100.00	4.00	100.00	
115	0.00	29.16	4.00	100.00	4.00	100.00	
120	0.00	33.82	4.00	100.00	4.00	100.00	
125	0.00	38.55	4.00	100.00	4.00	100.00	
130	0.00	43.34	4.00	100.00	4.00	100.00	
135	0.00	48.16	4.00	100.00	4.00	100.00	
140	0.00	53.01	4.00	100.00	4.00	100.00	
145	0.00	57.87	4.00	100.00	4.00	100.00	
150	0.00	62.75	4.00	100.00	4.00	100.00	
155	0.00	67.64	4.00	100.00	4.00	100.00	
160	0.00	72.54	4.00	100.00	4.00	100.00	
165	0.00	77.44	4.00	100.00	4.00	100.00	
170	0.00	82.35	4.00	100.00	4.00	100.00	
175	0.00	87.25	4.00	100.00	4.00	100.00	
180	0.00	92.16	4.00	100.00	4.00	100.00	
185	0.00	97.07	4.00	100.00	4.00	100.00	



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Antenna Model		SVS Satellite 2.4 meter			
Antenna Mode		Receive 40.0 GHz			
Interference Objectives: Long Term		-156.0 <u>dBW/MHz</u>	20%	Transmit 50.0 GHz	
Short Term		-146.0 <u>dBW/MHz</u>	0.01%	-151.0 <u>dBW/4 kHz</u>	20%
Max Available RF Power				-128.0 <u>dBW/4 kHz</u>	0.0025%
				-28.7 (<u>dBW/4 kHz</u>)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	101.98	4.00	100.00	4.00	100.00
195	0.00	106.88	4.00	100.00	4.00	100.00
200	0.00	111.78	4.00	100.00	4.00	100.00
205	0.00	116.67	4.00	100.00	4.00	100.00
210	0.00	121.55	4.00	100.00	4.00	100.00
215	0.00	126.42	4.00	100.00	4.00	100.00
220	0.00	131.27	4.00	100.00	4.00	100.00
225	0.00	136.09	4.00	100.00	4.00	100.00
230	0.00	140.88	4.00	100.00	4.00	100.00
235	0.00	145.62	4.00	100.00	4.00	100.00
240	0.00	150.29	4.00	100.00	4.00	100.00
245	0.00	154.84	4.00	100.00	4.00	100.00
250	0.00	159.20	4.00	100.00	4.00	100.00
255	0.00	163.22	4.00	100.00	4.00	100.00
260	0.00	166.59	4.00	100.00	4.00	100.00
265	0.00	168.71	4.00	100.00	4.00	100.00
270	0.00	168.84	4.00	100.00	4.00	100.00
275	0.00	166.93	4.00	100.00	4.00	100.00
280	0.00	163.67	4.00	100.00	4.00	100.00
285	0.00	159.70	4.00	100.00	4.00	100.00
290	0.00	155.37	4.00	100.00	4.00	100.00
295	0.00	150.84	4.00	100.00	4.00	100.00
300	0.00	146.18	4.00	100.00	4.00	100.00
305	0.00	141.45	4.00	100.00	4.00	100.00
310	0.00	136.66	4.00	100.00	4.00	100.00
315	0.00	131.84	4.00	100.00	4.00	100.00
320	0.00	126.99	4.00	100.00	4.00	100.00
325	0.00	122.13	4.00	100.00	4.00	100.00
330	0.00	117.25	4.00	100.00	4.00	100.00
335	0.00	112.36	4.00	100.00	4.00	100.00
340	0.00	107.46	4.00	100.00	4.00	100.00
345	0.00	102.56	4.00	100.00	4.00	100.00
350	0.00	97.65	4.00	100.00	4.00	100.00
355	0.00	92.75	4.00	100.00	4.00	100.00



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5. Contact Information

For questions or information regarding the 40/50 GHz Frequency Coordination Report, please contact:

Contact person:	Gary Edwards
Title:	Senior Manager, Satellite Services
Company:	Comsearch
Address:	21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
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