

Attachment A

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
O3B Limited
WINDOW ROCK, AZ
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
December 01, 2020

TABLE OF CONTENTS

1. CONCLUSIONS	3
2. SUMMARY OF RESULTS	4
3. SUPPLEMENTAL SHOWING	5
4. EARTH STATION COORDINATION DATA.....	7
5. CERTIFICATION.....	11

1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

The following companies reported potential great circle interference conflicts that did not meet the objectives on a line-of-sight basis. When over-the-horizon losses are considered on the interfering paths, sufficient blockage exists to negate harmful interference from occurring with the proposed transmit-receive earth station.

Company

SBI License Corporation
Smith Bagley, Inc

No other carriers reported potential interference cases.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 10/27/2020.

Company

AC BidCO LLC
AT&T Corp.
AlignTec Incorporated
Apache County Schools
Bisti Fuels Company, LLC
Brainstorm Internet
Cellco Partnership-AZ/CO/NM/NV/UT
Commnet Four Corners, LLC
Conterra Ultra Broadband, LLC
El Paso Natural Gas Company, LLC
Empire Electric Association, Inc.
Enterprise Products Operating, LLC
Futurum Communications Corporation
Glacier Management Associates
Global Telecom & Technology Americas, In
Harvest Midstream Company
HiSpeed 4 U, Inc
Holbrook School District
Hopi Telecommunications, Inc.
McKinley, County of
Navajo Communications Company
Navajo County
Navajo Nation
Navajo Tribal Utility Authority
Navopache Electric Cooperative, Inc.
New Cingular Wireless PCS LLC -Colorado
New Cingular Wireless PCS, LLC - NM
Nextel West Corporation
Nimbus Solutions
Northland Pioneer College
Public Service Company of New Mexico
Qwest Corporation
Red Cedar Gathering Co
SBI License Corporation
Sacred Wind Communications, Inc
San Juan County New Mexico
SkyWerx Industries, LLC
Smith Bagley, Inc
Southwest Communications Systems
Sprint Spectrum L.P.

State of Colorado
T-Mobile License LLC
Transworld Network Corp
University of Utah - Education Network
Wecom, Inc.

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 10/27/2020
Job Number: 201027COMSGE05

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code 03BLIM
Licensee Name O3B Limited

Site Information

WINDOW ROCK, AZ
Venue Name
Latitude (NAD 83) 35° 40' 29.6" N
Longitude (NAD 83) 109° 3' 26.6" W
Climate Zone A
Rain Zone 5
Ground Elevation (AMSL) 2079.65 m / 6823.0 ft

Link Information

Satellite Type Medium Earth Orbit
Mode TR - Transmit-Receive
Modulation Digital
Minimum Elevation Angle 10.0°
Azimuth Range 0.0° to 360°
Antenna Centerline (AGL) 2.74 m / 9.0 ft

Antenna Information

		Receive - FCC32		Transmit - FCC32
Manufacturer		AVL		AVL
Model		2470		2470
Gain / Diameter		51.0 dBi / 2.4 m		54.5 dBi / 2.4 m
3-dB / 15-dB Beamwidth		0.14° / 0.32°		0.23° / 0.60°
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)			-22.5 1.5
Maximum EIRP	(dBW/4 kHz) (dBW/MHz)			32.0 56.0
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%

Frequency Information

	Receive 18.0 GHz	Transmit 28.0 GHz
Emission / Frequency Range (MHz)	1M00G7D - 216MG7D / 17800.0 - 18600.0 1M00G7D - 216MG7D / 18800.0 - 19300.0	1M00G7D - 216MG7D / 27600.0 - 28400.0 1M00G7D - 216MG7D / 28600.0 - 29100.0

Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

WINDOW ROCK, AZ

Licensee Name O3B Limited
Latitude (NAD 83) 35° 40' 29.6" N
Longitude (NAD 83) 109° 3' 26.6" W
Ground Elevation (AMSL) 2079.65 m / 6823.0 ft
Antenna Centerline (AGL) 2.74 m / 9.0 ft
Antenna Model AVL 2.4 meter
Antenna Mode Receive 18.0 GHz Transmit 28.0 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 -22.5 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.38	79.59	10.60	225.00	10.60	100.00
5	0.62	75.06	10.60	225.00	10.60	100.00
10	1.91	70.74	10.60	225.00	10.60	100.00
15	1.64	66.25	10.60	225.00	10.60	100.00
20	1.60	61.83	10.60	225.00	10.60	100.00
25	2.08	57.61	10.60	225.00	10.60	100.00
30	3.25	53.76	10.60	225.00	10.60	100.00
35	3.32	49.69	10.60	225.00	10.60	100.00
40	3.57	45.84	10.60	225.00	10.60	100.00
45	3.94	42.27	10.60	225.00	10.60	100.00
50	4.34	38.99	10.60	225.00	10.60	100.00
55	4.27	35.73	10.60	225.00	10.60	100.00
60	4.22	32.86	10.60	225.00	10.60	100.00
65	3.66	30.03	10.60	225.00	10.60	100.00
70	4.61	29.17	10.60	225.00	10.60	100.00
75	4.76	28.33	10.60	225.00	10.60	100.00
80	4.67	28.06	10.60	225.00	10.60	100.00
85	4.47	28.50	10.60	225.00	10.60	100.00
90	4.22	29.67	10.60	225.00	10.60	100.00
95	3.84	31.43	10.60	225.00	10.60	100.00
100	3.66	33.95	10.60	225.00	10.60	100.00
105	3.59	37.01	10.60	225.00	10.60	100.00
110	3.60	40.46	10.60	225.00	10.60	100.00
115	3.59	44.14	10.60	225.00	10.60	100.00
120	2.77	47.66	10.60	225.00	10.60	100.00
125	2.44	51.61	10.60	225.00	10.60	100.00
130	2.04	55.69	10.60	225.00	10.60	100.00
135	1.71	59.91	10.60	225.00	10.60	100.00
140	1.48	64.24	10.60	225.00	10.60	100.00
145	0.72	68.55	10.60	225.00	10.60	100.00
150	0.87	73.08	10.60	225.00	10.60	100.00
155	0.89	77.61	10.60	225.00	10.60	100.00
160	1.47	82.19	10.60	225.00	10.60	100.00
165	1.60	86.73	10.60	225.00	10.60	100.00
170	1.85	91.26	10.60	225.00	10.60	100.00
175	1.74	95.78	10.60	225.00	10.60	100.00
180	0.95	100.37	10.60	225.00	10.60	100.00
185	0.44	104.96	10.60	225.00	10.60	100.00

COMSEARCH

Earth Station Data Sheet

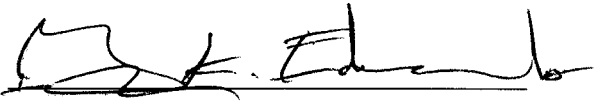
19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values		WINDOW ROCK, AZ			
Licensee Name		O3B Limited			
Latitude (NAD 83)		35° 40' 29.6" N			
Longitude (NAD 83)		109° 3' 26.6" W			
Ground Elevation (AMSL)		2079.65 m / 6823.0 ft			
Antenna Centerline (AGL)		2.74 m / 9.0 ft			
Antenna Model		AVL 2.4 meter			
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 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		-22.5 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.21	109.53	10.60	225.00	10.60	100.00
195	0.00	114.08	10.60	225.00	10.60	100.00
200	0.00	118.56	10.60	225.00	10.60	100.00
205	0.00	123.00	10.60	225.00	10.60	100.00
210	0.00	127.37	10.60	225.00	10.60	100.00
215	0.00	131.66	10.60	225.00	10.60	100.00
220	0.00	135.83	10.60	225.00	10.60	100.00
225	0.00	139.86	10.60	225.00	10.60	100.00
230	0.00	143.70	10.60	225.00	10.60	100.00
235	0.35	147.03	10.60	225.00	10.60	100.00
240	0.00	150.46	10.60	225.00	10.60	100.00
245	0.34	152.86	10.60	225.00	10.60	100.00
250	0.48	154.73	10.60	225.00	10.60	100.00
255	0.54	155.85	10.60	225.00	10.60	100.00
260	0.52	156.08	10.60	225.00	10.60	100.00
265	0.73	155.13	10.60	225.00	10.60	100.00
270	0.89	153.35	10.60	225.00	10.60	100.00
275	1.05	150.88	10.60	225.00	10.60	100.00
280	1.31	147.79	10.60	225.00	10.60	100.00
285	1.43	144.41	10.60	225.00	10.60	100.00
290	1.50	140.76	10.60	225.00	10.60	100.00
295	1.53	136.90	10.60	225.00	10.60	100.00
300	1.55	132.88	10.60	225.00	10.60	100.00
305	1.49	128.75	10.60	225.00	10.60	100.00
310	1.51	124.48	10.60	225.00	10.60	100.00
315	1.38	120.18	10.60	225.00	10.60	100.00
320	1.44	115.77	10.60	225.00	10.60	100.00
325	1.25	111.35	10.60	225.00	10.60	100.00
330	1.14	106.88	10.60	225.00	10.60	100.00
335	0.98	102.38	10.60	225.00	10.60	100.00
340	0.80	97.85	10.60	225.00	10.60	100.00
345	0.61	93.30	10.60	225.00	10.60	100.00
350	0.37	88.73	10.60	225.00	10.60	100.00
355	0.25	84.15	10.60	225.00	10.60	100.00

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: December 01, 2020

Ka-Band Earth Station – Window Rock, AZ

Frequency Coordination Report

28 GHz



Prepared on Behalf of
O3B LIMITED

December 1, 2020



COMSEARCH
A CommScope Company

Table of Contents

1. Summary of Results	- 1 -
2. 28 GHz Common Carrier and LTTS Coordination	- 1 -
3. 28 GHz UMFUS Coordination	- 2 -
4. Earth Station Coordination Data	- 3 -
5. Contact Information	- 7 -

1. Summary of Results

On behalf of O3B LIMITED, Comsearch performed a 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 temporary Ka-Band earth station in Window Rock, AZ, which will transmit at 28 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 December 1, 2020.

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

2. 28 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, the temporary Ka-Band earth station in Window Rock, AZ was prior-coordinated by Comsearch. A notification letter and datasheets 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
Frontier	Nationwide

A notification letter and datasheets for the temporary Ka-Band earth station in Window Rock, AZ were also sent to the following 28 GHz local television transmission licensee. This licensee is authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis.

Licensee	Authorized Geographic Area
Information Super Station, LLC	Continental US

No objections were received from the common carrier or local television transmission service incumbents.

¹ The proposed earth station will operate in the 27.5 – 28.35 GHz portion of the Ka-Band.

3. 28 GHz UMFUS Coordination

There were three 28 GHz UMFUS licensees identified within the coordination distance of the proposed temporary earth station. 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
Alta (DISH Network)	Market-Based
T-Mobile	Market-Based
Verizon	Market-Based

No objections were received from the UMFUS incumbents.

4. Earth Station Coordination Data

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

Job Number: 201027COMSGE05

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: 03BLIM
Licensee Name: O3B Limited

Site Information

Venue Name: **WINDOW ROCK, AZ**
Latitude (NAD 83): 35° 40' 29.6" N
Longitude (NAD 83): 109° 3' 26.6" W
Climate Zone: A
Rain Zone: 5
Ground Elevation (AMSL): 2079.65 m / 6823.0 ft

Link Information

Satellite Type: Medium Earth Orbit
Mode: TR - Transmit-Receive
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 2.74 m / 9.0 ft

Antenna Information

		Receive - FCC32		Transmit - FCC32
Manufacturer		AVL		AVL
Model		2470		2470
Gain / Diameter		51.0 dBi / 2.4 m		54.5 dBi / 2.4 m
3-dB / 15-dB Beamwidth		0.14° / 0.32°		0.23° / 0.60°
Max Available RF Power	(dBW/4 kHz)			-22.5
	(dBW/MHz)			1.5
Maximum EIRP	(dBW/4 kHz)			32.0
	(dBW/MHz)			56.0
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%

Frequency Information

	Receive 18.0 GHz	Transmit 28.0 GHz
Emission / Frequency Range (MHz)	1M00G7D - 216MG7D / 17800.0 - 18600.0 1M00G7D - 216MG7D / 18800.0 - 19300.0	1M00G7D - 216MG7D / 27600.0 - 28400.0 1M00G7D - 216MG7D / 28600.0 - 29100.0
Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi



O3B LIMITED
Ka-Band Earth Station – Window Rock, AZ
Frequency Coordination Report
28 GHz

Coordination Values	WINDOW ROCK, AZ		
Licensee Name	O3B Limited		
Latitude (NAD 83)	35° 40' 29.6" N		
Longitude (NAD 83)	109° 3' 26.6" W		
Ground Elevation (AMSL)	2079.65 m / 6823.0 ft		
Antenna Centerline (AGL)	2.74 m / 9.0 ft		
Antenna Model	AVL 2.4 meter		
Antenna Mode	Receive 18.0 GHz		Transmit 28.0 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	-22.5 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.38	79.59	10.60	225.00	10.60	100.00
5	0.62	75.06	10.60	225.00	10.60	100.00
10	1.91	70.74	10.60	225.00	10.60	100.00
15	1.64	66.25	10.60	225.00	10.60	100.00
20	1.60	61.83	10.60	225.00	10.60	100.00
25	2.08	57.61	10.60	225.00	10.60	100.00
30	3.25	53.76	10.60	225.00	10.60	100.00
35	3.32	49.69	10.60	225.00	10.60	100.00
40	3.57	45.84	10.60	225.00	10.60	100.00
45	3.94	42.27	10.60	225.00	10.60	100.00
50	4.34	38.99	10.60	225.00	10.60	100.00
55	4.27	35.73	10.60	225.00	10.60	100.00
60	4.22	32.86	10.60	225.00	10.60	100.00
65	3.66	30.03	10.60	225.00	10.60	100.00
70	4.61	29.17	10.60	225.00	10.60	100.00
75	4.76	28.33	10.60	225.00	10.60	100.00
80	4.67	28.06	10.60	225.00	10.60	100.00
85	4.47	28.50	10.60	225.00	10.60	100.00
90	4.22	29.67	10.60	225.00	10.60	100.00
95	3.84	31.43	10.60	225.00	10.60	100.00
100	3.66	33.95	10.60	225.00	10.60	100.00
105	3.59	37.01	10.60	225.00	10.60	100.00
110	3.60	40.46	10.60	225.00	10.60	100.00
115	3.59	44.14	10.60	225.00	10.60	100.00
120	2.77	47.66	10.60	225.00	10.60	100.00
125	2.44	51.61	10.60	225.00	10.60	100.00
130	2.04	55.69	10.60	225.00	10.60	100.00
135	1.71	59.91	10.60	225.00	10.60	100.00
140	1.48	64.24	10.60	225.00	10.60	100.00
145	0.72	68.55	10.60	225.00	10.60	100.00
150	0.87	73.08	10.60	225.00	10.60	100.00
155	0.89	77.61	10.60	225.00	10.60	100.00
160	1.47	82.19	10.60	225.00	10.60	100.00
165	1.60	86.73	10.60	225.00	10.60	100.00
170	1.85	91.26	10.60	225.00	10.60	100.00
175	1.74	95.78	10.60	225.00	10.60	100.00
180	0.95	100.37	10.60	225.00	10.60	100.00
185	0.44	104.96	10.60	225.00	10.60	100.00



O3B LIMITED
Ka-Band Earth Station – Window Rock, AZ
Frequency Coordination Report
28 GHz

Coordination Values	WINDOW ROCK, AZ		
Licensee Name	O3B Limited		
Latitude (NAD 83)	35° 40' 29.6" N		
Longitude (NAD 83)	109° 3' 26.6" W		
Ground Elevation (AMSL)	2079.65 m / 6823.0 ft		
Antenna Centerline (AGL)	2.74 m / 9.0 ft		
Antenna Model	AVL 2.4 meter		
Antenna Mode	Receive 18.0 GHz		Transmit 28.0 GHz
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Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	-22.5 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.21	109.53	10.60	225.00	10.60	100.00
195	0.00	114.08	10.60	225.00	10.60	100.00
200	0.00	118.56	10.60	225.00	10.60	100.00
205	0.00	123.00	10.60	225.00	10.60	100.00
210	0.00	127.37	10.60	225.00	10.60	100.00
215	0.00	131.66	10.60	225.00	10.60	100.00
220	0.00	135.83	10.60	225.00	10.60	100.00
225	0.00	139.86	10.60	225.00	10.60	100.00
230	0.00	143.70	10.60	225.00	10.60	100.00
235	0.35	147.03	10.60	225.00	10.60	100.00
240	0.00	150.46	10.60	225.00	10.60	100.00
245	0.34	152.86	10.60	225.00	10.60	100.00
250	0.48	154.73	10.60	225.00	10.60	100.00
255	0.54	155.85	10.60	225.00	10.60	100.00
260	0.52	156.08	10.60	225.00	10.60	100.00
265	0.73	155.13	10.60	225.00	10.60	100.00
270	0.89	153.35	10.60	225.00	10.60	100.00
275	1.05	150.88	10.60	225.00	10.60	100.00
280	1.31	147.79	10.60	225.00	10.60	100.00
285	1.43	144.41	10.60	225.00	10.60	100.00
290	1.50	140.76	10.60	225.00	10.60	100.00
295	1.53	136.90	10.60	225.00	10.60	100.00
300	1.55	132.88	10.60	225.00	10.60	100.00
305	1.49	128.75	10.60	225.00	10.60	100.00
310	1.51	124.48	10.60	225.00	10.60	100.00
315	1.38	120.18	10.60	225.00	10.60	100.00
320	1.44	115.77	10.60	225.00	10.60	100.00
325	1.25	111.35	10.60	225.00	10.60	100.00
330	1.14	106.88	10.60	225.00	10.60	100.00
335	0.98	102.38	10.60	225.00	10.60	100.00
340	0.80	97.85	10.60	225.00	10.60	100.00
345	0.61	93.30	10.60	225.00	10.60	100.00
350	0.37	88.73	10.60	225.00	10.60	100.00
355	0.25	84.15	10.60	225.00	10.60	100.00

5. Contact Information

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

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