



UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
**RADIO STATION AUTHORIZATION**

**Name:** KVH Industries, Inc.

**Call Sign:** E130226

**Authorization Type:** Modification of License

**File Number:** SES-MOD-20191002-01250

Non Common Carrier

**Grant date:** 10/01/2020

**Expiration Date:** 03/27/2029

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Fixed Earth Stations

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	1	50 Enterprise Center Middletown, Newport, RI 02842	41°31'14.8"N	71°17'15.0"W	44.2	83	

Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.

*Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantees are authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning March 27, 2014 (3 AM Eastern Standard Time) and ending March 27, 2029 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is October 1, 2021 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.*

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	5925.0000-6425.0000	H, V	9M98G7D	Tx	46.90	13.00	1		10 MHz Spread Spectrum Digital Service
2)	5925.0000-6425.0000	H, V	36M0G7D	Tx	46.90	7.40	1		Full Transponder Spread Spectrum Service
3)	5925.0000-6425.0000	H, V	27M0G7D	Tx	46.90	8.60	1		Half Transponder Spectrum Service1
4)	5925.0000-6425.0000	H, V	18M0G7D	Tx	46.90	10.40	1		Half Transponder Spectrum Service2
5)	3700.0000-4200.0000	H, V	36M0G7D	Rx			1		Spread Spectrum Digital Service
6)	5925.0000-6425.0000	H, V	9M98G7D	Tx	46.90	13.00	2		Spread Spectrum Digital Service
7)	5925.0000-6425.0000	H, V	30M0FXW	Tx	46.90	8.15	2		Frequency Modulated Digital Services



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8)	5925.0000-6425.0000	H, V	27M0G7D	Tx	46.90	8.60	2	Half Transponder Spectrum Service	Spread Spectrum
9)	5925.0000-6425.0000	H, V	36M0G7D	Tx	46.90	7.40	2	Full Transponder Spectrum Service	Spread Spectrum
10)	5925.0000-6425.0000	H, V	18M0G7D	Tx	46.90	10.40	2	Half Transponder Spectrum Service	Spread Spectrum
11)	5925.0000-6425.0000	H, V	25M0F8W	Tx	46.90	8.94	2	Frequency Modulated, Multiple Channel, Digital Services	
12)	5925.0000-6425.0000	H, V	32M2G7W	Tx	46.90	7.84	2	Frequency Modulated, Multiple Channel, Digital Services	
13)	5925.0000-6425.0000	H, V	35M9G7W	Tx	46.90	7.37	2	Frequency Modulated, Multiple Channel, Digital Services	
14)	5925.0000-6425.0000	H, V	36M0F8W	Tx	46.90	7.36	2	Frequency Modulated, Multiple Channel, Digital Services	

## **C) Frequency Coordination Limits**

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	5925.0000-6425.0000	25.0W-135.0W		23.2-10.8		122.4-251.9		-15.6	1
2)	3700.0000-4200.0000	25.0W-135.0W		23.2-10.8		122.4-251.9		-15.6	1
3)	5925.0000-6425.0000	25.0W-135.0W		23.2-10.8		122.4-251.9		-15.6	2

## **D) Points of Communications**

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) 1 to Permitted Space Station List



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**E) Antenna Facilities**

<b>Site ID</b>	<b>Antenna ID</b>	<b>Units</b>	<b>Diameter (meters)</b>	<b>Manufacturer</b>	<b>Model number</b>	<b>Site Elevation (Meters)</b>	<b>Max Antenna Height (Meters)</b>	<b>Special Provisions (Refer to Section H)</b>
1	1	1	1	KVH	TracPhone V11	44.2	1.52 AGL/ 45.7 AMSL	
				Max Gains(s) : 34.5 dBi @ 6.1380 GHz	31.3 dBi @ 3.9500 GHz			
				Maximum total input power at antenna flange (Watts) =		17.47		
				Maximum aggregate output EIRP for all carriers (dBW) =		46.90		
1	2	1		KVH INDUSTRIES		44.2	0 AGL/ 44.2 AMSL	
				Max Gains(s) : 34.5 dBi @ 6.1380 GHz				
				Maximum total input power at antenna flange (Watts) =		17.47		
				Maximum aggregate output EIRP for all carriers (dBW) =		46.90		

**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions

**H) Special and General Provisions**

**A)** This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.

6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.

8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)



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## **H) Special and General Provisions**

**A)** This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

3600-4200 MHz (space-to-Earth)  
5850-6725 MHz (Earth-to-space)  
10.95-11.2 GHz (space-to-Earth)  
11.45-12.2 GHz (space-to-Earth)  
13.75-14.5 GHz (Earth-to-space)  
18.3-18.8 GHz (space-to-Earth)  
19.7-20.2 GHz (space-to-Earth)  
24.75-25.25 GHz (Earth-to-space)  
28.35-28.6 GHz (Earth-to-space)  
29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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**B)** This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct by the required date was due to factors not under control of the grantee.

**Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.**