

EXHIBIT 4A.2 – MANUFACTURERS’ DECLARATIONS FOR C-BAND ANTENNAS

Declarations that:

The Antennas comply with the off-axis EIRP Density Envelopes set forth in 25.218(d)

And that

The Antennas will automatically cease transmissions with a mute command to the modem within 100 milliseconds if (there is a pointing error in which the angle) between the target satellite and the axis of the main lobe of the antenna exceeds 0.5° and will not resume until such angle is less than 0.2° -- thereby assuring compliance with 25.115(l)(3)(i) in accordance with 25.228(b).

FCC Declaration of Conformity

Intellian Technologies, manufactures of stabilized maritime VSAT antenna systems for satellite communication at sea, supplies stabilized maritime VSAT antenna systems to the satellite communication service providers for their ESV (Earth Station on Vessels) networks.

FCC §25.218 defines the provisions for blanket licensing of ESV antennas operation in the C-, Ku- and Ka-band. It defines the antennas radiation, and each article regulates the followings;

- §25.218 (d)(1): Regulation for Azimuth Direction & Co Polarization in the C-band
- §25.218 (d)(2): Regulation for Other Direction & Co Polarization in the C-band
- §25.218 (d)(3): Regulation for Cross Polarization in the C-band

- §25.218 (f)(1): Regulation for Azimuth Direction & Co Polarization in the Ku-band
- §25.218 (f)(2): Regulation for Other Direction & Co Polarization in the Ku-band
- §25.218 (f)(3): Regulation for Cross Polarization in the Ku-band

- §25.218 (i)(1)&(3): Regulation for Azimuth Direction & Co Polarization in the Ka-band
- §25.218 (i)(2)&(3): Regulation for Other Direction & Co Polarization in the Ka-band
- §25.218 (i)(4): Regulation for Cross Polarization in the Ka-band

Intellian Technologies, Inc. declares that v240MT complies with the threshold level as defined in §25.218(d)(1), §25.218(f)(1) and §25.218(i)(1)&(3);, and declares that v240MT is in accordance with all defined regulations from §25.218(d)(2) to §25.218(d)(3), §25.218(f)(2) to §25.218(f)(3) and §25.218(i)(2)&(3) to §25.218(i)(4) at the below stated input power spectral density, with an N value of 1

Product description	Intellian v240MT, 2.4m C/Ku/Ka-band VSAT antenna system	
EIRP spectral density limit	C-Band	-7.43 dBW/ 4KHz
	Ku-band	-18.37 dBw/ 4KHz
	Ka-band	+0.02 dBw/ MHz

Intellian Technologies, Inc. declares that the above antennas will automatically cease the transmission with a mute command to the modem within 100 milliseconds if the target satellite and the axis of the main lobe of the ESV antenna exceeds 0.5 degree and will not resume until such angle is less than or equal to 0.2 degree in accordance with the requirements of §25.228 (b) and §25.228 (c).

Radiation pattern data is available upon request to verify the conformance.

Authority: **Steve Cha**
/ CTO, R&D



Signature: _____

Date: _____ May 5, 2020

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FCC Declaration of Conformity

Intellian Technologies, manufactures of stabilized maritime VSAT antenna systems for satellite communication at sea, supplies stabilized maritime VSAT antenna systems to the satellite communication service providers for their ESV (Earth Station on Vessels) networks.

FCC §25.218 defines the provisions for blanket licensing of ESV antennas operation in the C-, Ku- and Ka-band. It defines the antennas radiation, and each article regulates the followings;

- §25.218 (d)(1): Regulation for Azimuth Direction & Co Polarization in the C-band
- §25.218 (d)(2): Regulation for Other Direction & Co Polarization in the C-band
- §25.218 (d)(3): Regulation for Cross Polarization in the C-band

- §25.218 (f)(1): Regulation for Azimuth Direction & Co Polarization in the Ku-band
- §25.218 (f)(2): Regulation for Other Direction & Co Polarization in the Ku-band
- §25.218 (f)(3): Regulation for Cross Polarization in the Ku-band

- §25.218 (i)(1)&(3): Regulation for Azimuth Direction & Co Polarization in the Ka-band
- §25.218 (i)(2)&(3): Regulation for Other Direction & Co Polarization in the Ka-band
- §25.218 (i)(4): Regulation for Cross Polarization in the Ka-band

Intellian Technologies, Inc. declares that v240MT Gen-II complies with the threshold level as defined in §25.218(d)(1), §25.218(f)(1) and §25.218(i)(1)&(3);, and declares that v240MT is in accordance with all defined regulations from §25.218(d)(2) to §25.218(d)(3), §25.218(f)(2) to §25.218(f)(3) and §25.218(i)(2)&(3) to §25.218(i)(4) at the below stated input power spectral density, with an N value of 1

Product description	Intellian v240MT Gen-II, 2.4m C/Ku/Ka-band VSAT antenna system	
EIRP spectral density limit	C-Band	-6.22 dBW/ 4KHz
	Ku-band	-15.69 dBw/ 4KHz
	Ka-band	+3.16 dBw/ MHz

Intellian Technologies, Inc. declares that the above antennas will automatically cease the transmission with a mute command to the modem within 100 milliseconds if the target satellite and the axis of the main lobe of the ESV antenna exceeds 0.5 degree and will not resume until such angle is less than or equal to 0.2 degree in accordance with the requirements of §25.228 (b) and §25.228 (c).

Radiation pattern data is available upon request to verify the conformance.

Authority: **Steve Cha**
/ CTO, R&D

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FCC Declaration of Conformity

1. Sea Tel, Inc. designs, develops, manufactures and services marine stabilized antenna systems for satellite communication at sea. These products are in turn used by our customers as part of their C, Ku and Ka-band Earth Station on Vessels (ESV) networks.

2. FCC regulation 47 C.F.R. § 25.218 defines the Off-axis EIRP density envelopes for FSS earth stations transmitting in the C, Ku and Ka-band. This declaration covers the requirements for meeting § 25.218 (d), (f) and (i) by the demonstrations outlined in paragraphs § 25.115 (g)(1). The paragraph numbers in this declaration refer to the Oct, 2019 version of FCC 47 C.F.R. § 25.218 and § 25.115.

3. Sea Tel hereby declares that the antennas listed below will meet the off-axis EIRP spectral density requirements of § 25.218 (d), (f) and (i) when the following input power spectral density limitations, at the corresponding antenna feed flange, are met:

2.4 Meter C Band, Models SeaTel 2400 family are limited to -8.6 dBW/4kHz
2.4 Meter Ku Band, Models SeaTel 2400 family are limited to -15.5 dBW/4kHz
2.4 Meter Ka Band, Models SeaTel 2400 family are limited to 3.5 dBW/MHz

4. Sea Tel hereby declares that the antennas referenced in paragraph 3 above, will automatically cease transmission within 100 milliseconds if the stabilization error should exceed 0.1 degrees for C-Band and 0.2 degrees for Ku or Ka Band operation and will not resume transmission until the error drops below these thresholds. Furthermore, these pointing error thresholds are considered in the input power spectral density limits specified in paragraph 3 above thus fulfilling the requirements of § 25.228 (b).

5. Sea Tel maintains all relevant data, which is available upon request, to verify these declarations.



Rami Adada, Director of Technology
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