

## Description of EPFD validation and results of examination

### Input parameters

#### Mask link data

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbit IDs / Satellite IDs
1	↔	10950	12241	All
2	↑	14000	14495	All
3	↑	13002	13247	All
4	↑	13864	13995	All
514	↓	10950	12150	All
5141	↓	12158	12241	All

#### Common SNS Data

##### Common

A.4.b.7.d.1 Exclusion zone type	A.4.b.7.d.1 Exclusion zone size, degrees
Y - topocentric angle (earth based)	12

##### Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
514/514/97.4	No keeping	Default

##### Uplink (Ku-up)

A.4.b.7.b Earth station density (1/km <sup>2</sup> )	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
4.9383E-07	1423	1

##### Uplink (TT&C)

A.4.b.7.b Earth station density (1/km <sup>2</sup> )	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
7.7E-08	3600	1

##### Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	2

### Results

#### Ku-down, Ku-up

B1A Beam designation	B2 Emi-Rcp	BR7a Group id./ Target Group id.	GHz	Orbital planes id. no.	Mask ID	Article 22 Limit	Result	Article 22 Examination
KU UP	R	318750622 / 118734909	13.0025- 13.2475	1	3	TABLE 22-2	Pass	Favorable
KU UP	R	318750623 / 118734910	14.005- 14.495	1	2	TABLE 22-2	Pass	Favorable
KUDOWN	E	318750612 / 118734911	10.955- 11.195	1	1, 514	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDOWN	E	318750613 / 118734914	11.205- 11.445	1	1, 514	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDOWN	E	318750614 / 118734915 318750615 / 118734917	11.705- 12.195	1	514	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable

**TT&C**

<i>B1A Beam designation</i>	<i>B2 Emi-Rcp</i>	<i>BR7a Group id./ Target Group id.</i>	<i>GHz</i>	<i>Orbital planes id. no.</i>	<i>Mask ID</i>	<i>Article 22 Limit</i>	<i>Result</i>	<i>Article 22 Examination</i>
COMMAND	R	318750621 / 118734912	13.8543- 13.9957	1	4	TABLE 22-2	Pass	Favorable
KUDOWN	E	318750614 / 118734915 318750615 / 118734917	11.705- 12.195	1	5141	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
TLM	E	318750616 / 118744397 318750618 / 118744399	12.1583- 12.1997	1	5141	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
TLM	E	318750617 / 118744398 318750619 / 118744400 318750620 / 118744401	12.2003- 12.2417	1	5141	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable

**Notes:**

1. Findings are promulgated as favorable when all applicable limits in Article 22 are met for given group of frequency assignments in all applicable scenarios.
2. The Result column can be either Pass or Fail (see Rec. ITU-R S.1503-2). N/A (Non Applicable) refers to the case when an applicable Article 22 limit is not examined in the current scenario.
3. Qualified Favorable is established due to continuous application of Resolution 85 (WRC-03) on request by the notifying administration.