

**Description of EPFD validation and results of examination**

Downlink examination of frequency ranges 17.8 – 18.6 GHz and 19.7 – 20.2 GHz.

Inter-satellite examination of frequency ranges 17.8 – 18.4 GHz.

Uplink examination of frequency ranges 27.5 – 28.6 GHz and 29.5-30 GHz.

**Scenario 1. “Inclined” Orbit (orbital planes 7 to 11 with orbit inclination 37.4 degrees) in 17.8-18.6 GHz, 27.5-28.6 GHz and 29.5-30 GHz**

<i>B1A</i> <i>Beam designation</i>	<i>B2</i> <i>Emi-Rcp</i>	<i>BR7a</i> <i>Group id./</i> <i>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>
KAULEO	R	317788094/115637874 317788095/115637875 317788096/115637876 317788097/115637877	28	7 - 11	3, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KAULEO	R	317788099/115637891 317788101/115637893 317788103/115637895 317788105/115637897	29	7 - 11	3, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KADLEO	E	317788072/115637870 317788073/115637871 317788074/115637872 317788075/115637873	17	7 - 11	3, 9 - 11	TABLE 22-3 TABLE 22-1B	Pass Pass	FAVORABLE
KADLEO	E	317788076/115637878 317788079/115637881 317788082/115637884 317788085/115637887	18	7 - 11	3, 9 - 11	TABLE 22-3 TABLE 22-1B	Pass Pass	FAVORABLE

**Scenario 2. “Inclined” Orbit (orbital planes 7 to 11 with orbit inclination 37.4 degrees) in 19.7-20.2 GHz**

<i>B1A</i> <i>Beam designation</i>	<i>B2</i> <i>Emi-Rcp</i>	<i>BR7a</i> <i>Group id./</i> <i>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>
KADLEO	E	317788078/115637880 317788081/115637883 317788084/115637886 317788087/115637889	19	7 - 11	7	TABLE 22-1C	Pass	FAVORABLE

**Scenario 3. “Polar” Orbit (orbital planes 1 to 6 with orbit inclination 99.5 degrees) in 17.8-18.6 GHz, 27.5-28.6 GHz and 29.5-30 GHz**

<i>B1A</i> <i>Beam designation</i>	<i>B2</i> <i>Emi-Rcp</i>	<i>BR7a</i> <i>Group id./</i> <i>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>
KAU1	R	317788088/112714486	27	1 - 6	1, 9 - 11	TABLE 22-2	Pass	FAVORABLE

<i>B1A</i>	<i>B2</i>	<i>BR7a</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>
<i>Beam designation</i>	<i>Emi-Rcp</i>	<i>Group id./ Target Group id.</i>						
KAU1	R	317788089/112714487	29	1 - 6	1, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KAU1	R	317788091/112721849	28	1 - 6	1, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KAD1	E	317788066/112721850	17	1 - 6	1, 9 - 11	TABLE 22-3 TABLE 22-1B	Pass Pass	FAVORABLE
KAD1	E	317788067/112721851	18	1 - 6	1, 9 - 11	TABLE 22-3 TABLE 22-1B	Pass Pass	FAVORABLE

**Scenario 4. "Polar" Orbit (orbital planes 1 to 6 with orbit inclination 99.5 degrees) in 19.7-20.2 GHz**

<i>B1A</i>	<i>B2</i>	<i>BR7a</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>
<i>Beam designation</i>	<i>Emi-Rcp</i>	<i>Group id./ Target Group id.</i>						
KAD1	E	317788064/112714489	19	1 - 6	5	TABLE 22-1C	Pass	FAVORABLE

**Scenario 5. Simultaneous operation (orbital planes 1 to 11) in 17.8-18.6 GHz, 27.5-28.6 GHz and 29.5-30 GHz**

<i>B1A</i>	<i>B2</i>	<i>BR7a</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>
<i>Beam designation</i>	<i>Emi-Rcp</i>	<i>Group id./ Target Group id.</i>						
KAU1	R	317788088/112714486	27	1 - 11	1, 3, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KAU1	R	317788089/112714487	29	1 - 11	1, 3, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KAU1	R	317788091/112721849	28	1 - 11	1, 3, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KAULEO	R	317788094/115637874 317788095/115637875 317788096/115637876 317788097/115637877	28	1 - 11	1, 3, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KAULEO	R	317788099/115637891 317788101/115637893 317788103/115637895 317788105/115637897	29	1 - 11	1, 3, 9 - 11	TABLE 22-2	Pass	FAVORABLE
KAD1	E	317788066/112721850	17	1 - 11	1, 3, 9 - 11	TABLE 22-3 TABLE 22-1B	Pass Pass	FAVORABLE
KAD1	E	317788067/112721851	18	1 - 11	1, 3, 9 - 11	TABLE 22-3 TABLE 22-1B	Pass Pass	FAVORABLE
KADLEO	E	317788072/115637870 317788073/115637871 317788074/115637872 317788075/115637873	17	1 - 11	1, 3, 9 - 11	TABLE 22-3 TABLE 22-1B	Pass Pass	FAVORABLE

<i>B1A</i>	<i>B2</i>	<i>BR7a</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>
<i>Beam designation</i>	<i>Emi-Rcp</i>	<i>Group id./ Target Group id.</i>						
KADLEO	E	317788076/115637878 317788079/115637881 317788082/115637884 317788085/115637887	18	1 - 11	1, 3, 9 - 11	TABLE 22-3 TABLE 22-1B	Pass Pass	FAVORABLE

**Scenario 6. Simultaneous operation (orbital planes 1 to 11) in 19.7-20.2 GHz**

<i>B1A</i>	<i>B2</i>	<i>BR7a</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>
<i>Beam designation</i>	<i>Emi-Rcp</i>	<i>Group id./ Target Group id.</i>						
KAD1	E	317788064/112714489	19	1 - 11	5, 7	TABLE 22-1C	Pass	FAVORABLE
KADLEO	E	317788078/115637880 317788081/115637883 317788084/115637886 317788087/115637889	19	1 - 11	5, 7	TABLE 22-1C	Pass	FAVORABLE

**Notes:**

- Findings are promulgated as favorable when all applicable limits in Article 22 are met for given group of frequency assignments in all applicable scenarios.
- 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.