

Description of EPFD validation and results of examination

This examination concerns only frequency band 17.8-18.6 GHz.

Correction of examination results under No. 22.5C and No. 9.7B published in Special Section CR/C/5025 MOD-1 (IFIC 2962/11.01.2022). Previous examination was using incorrectly attributed PFD-mask in the band 17.8-18.6 GHz.

Input parameters

Mask link data

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbit IDs / Satellite IDs
1	↓	17800	18600	All
3	↔	17800	18400	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)	18

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
610/610/42	No keeping	Default

Uplink

A.4.b.7.b Earth station density (1/km ²)	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
0	100	1

Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	1

Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
TUA1, TUA2, TUA3, TUA4	E	17800	18600	empty
TGA1, TGA2, TGP1, TGP2	E	17800	20200	empty

Results

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
TGA1	E	319862201 / 119676570 319862202 / 119676571 319862203 / 119676572 319862204 / 119676573 319862205 / 119676574	17.8-18.3	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGA1	E	319862206 / 119676618 319862207 / 119676619 319862208 / 119676620 319862209 / 119676621 319862210 / 119676622	18.3-18.6	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGA2	E	319862216 / 119676575 319862217 / 119676576 319862218 / 119676577 319862219 / 119676578 319862220 / 119676579	17.8-18.3	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

TGA2	E	319862221 / 119676623 319862222 / 119676624 319862223 / 119676625 319862224 / 119676626 319862225 / 119676627	18.3-18.6	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP1	E	319862231 / 119676580 319862232 / 119676581 319862233 / 119676582 319862234 / 119676583 319862235 / 119676584	17.8-18.3	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP1	E	319862236 / 119676628 319862237 / 119676629 319862238 / 119676630 319862239 / 119676631 319862240 / 119676632	18.3-18.6	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP2	E	319862246 / 119676585 319862247 / 119676586 319862248 / 119676587 319862249 / 119676588 319862250 / 119676589	17.8-18.3	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP2	E	319862251 / 119676633 319862252 / 119676634 319862253 / 119676635 319862254 / 119676636 319862255 / 119676637	18.3-18.6	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA1	E	319862261 / 119676590 319862262 / 119676591 319862263 / 119676592 319862264 / 119676593 319862265 / 119676594 319862266 / 119676595 319862267 / 119676596	17.8-18.3	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA1	E	319862268 / 119676638 319862269 / 119676639 319862270 / 119676640 319862271 / 119676641 319862272 / 119676642 319862273 / 119676643 319862274 / 119676644	18.3-18.6	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA2	E	319862275 / 119676597 319862276 / 119676598 319862277 / 119676599 319862278 / 119676600 319862279 / 119676601 319862280 / 119676602 319862281 / 119676603	17.8-18.3	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA2	E	319862282 / 119676645 319862283 / 119676646 319862284 / 119676647 319862285 / 119676648 319862286 / 119676649 319862287 / 119676650 319862288 / 119676651	18.3-18.6	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA3	E	319862289 / 119676604 319862290 / 119676605 319862291 / 119676606 319862292 / 119676607 319862293 / 119676608 319862294 / 119676609 319862295 / 119676610	17.8-18.3	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA3	E	319862296 / 119676652 319862297 / 119676653 319862298 / 119676654 319862299 / 119676655 319862300 / 119676656 319862301 / 119676657 319862302 / 119676658	18.3-18.6	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA4	E	319862303 / 119676611 319862304 / 119676612 319862305 / 119676613 319862306 / 119676614 319862307 / 119676615	17.8-18.3	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		319862308 / 119676616 319862309 / 119676617						
TUA4	E	319862310 / 119676659 319862311 / 119676660 319862312 / 119676661 319862313 / 119676662 319862314 / 119676663 319862315 / 119676664 319862316 / 119676665	18.3-18.6	1 - 36	1, 3	TABLE 22-1B TABLE 22-3	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.