

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/5024 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
630/630/51.9	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
0.0001	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	319862085 / 119675918 319862086 / 119675919 319862087 / 119675920 319862088 / 119675921 319862089 / 119675922	17.8-18.3	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGA1	E	319862090 / 119675966 319862091 / 119675967 319862092 / 119675968 319862093 / 119675969 319862094 / 119675970	18.3-18.6	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGA2	E	319862100 / 119675923 319862101 / 119675924 319862102 / 119675925 319862103 / 119675926 319862104 / 119675927	17.8-18.3	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGA2	E	319862105 / 119675971 319862106 / 119675972	18.3-18.6	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		319862107 / 119675973 319862108 / 119675974 319862109 / 119675975						
TGP1	E	319862115 / 119675928 319862116 / 119675929 319862117 / 119675930 319862118 / 119675931 319862119 / 119675932	17.8-18.3	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP1	E	319862120 / 119675976 319862121 / 119675977 319862122 / 119675978 319862123 / 119675979 319862124 / 119675980	18.3-18.6	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP2	E	319862130 / 119675933 319862131 / 119675934 319862132 / 119675935 319862133 / 119675936 319862134 / 119675937	17.8-18.3	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TGP2	E	319862135 / 119675981 319862136 / 119675982 319862137 / 119675983 319862138 / 119675984 319862139 / 119675985	18.3-18.6	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA1	E	319862145 / 119675938 319862146 / 119675939 319862147 / 119675940 319862148 / 119675941 319862149 / 119675942 319862150 / 119675943 319862151 / 119675944	17.8-18.3	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA1	E	319862152 / 119675986 319862153 / 119675987 319862154 / 119675988 319862155 / 119675989 319862156 / 119675990 319862157 / 119675991 319862158 / 119675992	18.3-18.6	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA2	E	319862159 / 119675945 319862160 / 119675946 319862161 / 119675947 319862162 / 119675948 319862163 / 119675949 319862164 / 119675950 319862165 / 119675951	17.8-18.3	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA2	E	319862166 / 119675993 319862167 / 119675994 319862168 / 119675995 319862169 / 119675996 319862170 / 119675997 319862171 / 119675998 319862172 / 119675999	18.3-18.6	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA3	E	319862173 / 119675952 319862174 / 119675953 319862175 / 119675954 319862176 / 119675955 319862177 / 119675956 319862178 / 119675957 319862179 / 119675958	17.8-18.3	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA3	E	319862180 / 119676000 319862181 / 119676001 319862182 / 119676002 319862183 / 119676003 319862184 / 119676004 319862185 / 119676005 319862186 / 119676006	18.3-18.6	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TUA4	E	319862187 / 119675959 319862188 / 119675960 319862189 / 119675961 319862190 / 119675962 319862191 / 119675963 319862192 / 119675964 319862193 / 119675965	17.8-18.3	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

TUA4	E	319862194 / 119676007 319862195 / 119676008 319862196 / 119676009 319862197 / 119676010 319862198 / 119676011 319862199 / 119676012 319862200 / 119676013	18.3-18.6	1 - 34	1, 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
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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.