

## 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	↓	10700	12750	All
2	↓	17800	18600	All
3	↓	19700	20200	All
5	↑	12750	13250	All
6	↑	13750	14500	All
7	↑	27500	28600	All
8	↑	29500	30000	All
11	↔	10700	11700	All
12	↔	12500	12750	All
13	↔	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
N - satellite based angle	10

##### Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
365/365/40	No keeping	Default

##### Uplink

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
5E-06	500	1

##### Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	5

##### Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
KUU3	R	13750	14000	10
KUU1, KUU2	R	12750	14500	10
KAU1, KAU2, KAU3	R	27500	30000	10
KUD1, KUD2	E	10700	12750	10
KAD1, KAD2, KAD3	E	17700	20200	10

### 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
KAU1	R	321774348 / 121759473 321774349 / 121759474 321774350 / 121759475 321774351 / 121759476	27.5-28.5	1 - 33	7	TABLE 22-2	Pass	Favorable
KAU1	R	321774352 / 121759477 321774353 / 121759478	29.5-30	1 - 33	8	TABLE 22-2	Pass	Favorable
KAU1	R	321774354 / 121759675 321774355 / 121759676 321774356 / 121759677 321774357 / 121759678	28.5-29.1	1 - 33	7	TABLE 22-2	Pass	Favorable
KAU2	R	321774358 / 121759483 321774359 / 121759484	27.5-28.5	1 - 33	7	TABLE 22-2	Pass	Favorable

		321774360 / 121759485 321774361 / 121759486						
KAU2	R	321774362 / 121759487 321774363 / 121759488	29.5-30	1 - 33	8	TABLE 22-2	Pass	Favorable
KAU2	R	321774364 / 121759679 321774365 / 121759680 321774366 / 121759681 321774367 / 121759682	28.5-29.1	1 - 33	7	TABLE 22-2	Pass	Favorable
KAU3	R	321774368 / 121759511 321774369 / 121759512 321774370 / 121759513 321774371 / 121759514	27.5-28.5	1 - 33	7	TABLE 22-2	Pass	Favorable
KAU3	R	321774372 / 121759515 321774373 / 121759516	29.5-30	1 - 33	8	TABLE 22-2	Pass	Favorable
KAU3	R	321774374 / 121759691 321774375 / 121759692 321774376 / 121759693 321774377 / 121759694	28.5-29.1	1 - 33	7	TABLE 22-2	Pass	Favorable
KUU1	R	321774378 / 121759597 321774379 / 121759598 321774380 / 121759599 321774381 / 121759600 321774382 / 121759601 321774383 / 121759602 321774384 / 121759603	12.75-13.25	1 - 33	5	TABLE 22-2	Pass	Favorable
KUU1	R	321774385 / 121759719 321774386 / 121759720 321774387 / 121759721 321774388 / 121759722 321774389 / 121759723 321774390 / 121759724	14-14.5	1 - 33	6	TABLE 22-2	Pass	Favorable
KUU1	R	321774391 / 121759725	13.75-14.5	1 - 33	6	TABLE 22-2	Pass	Favorable
KUU2	R	321774392 / 121759604 321774393 / 121759605 321774394 / 121759606 321774395 / 121759607 321774396 / 121759608 321774397 / 121759609 321774398 / 121759610	12.75-13.25	1 - 33	5	TABLE 22-2	Pass	Favorable
KUU2	R	321774399 / 121759726 321774400 / 121759727 321774401 / 121759728 321774402 / 121759729 321774403 / 121759730 321774404 / 121759731	14-14.5	1 - 33	6	TABLE 22-2	Pass	Favorable
KUU2	R	321774405 / 121759732	13.75-14.5	1 - 33	6	TABLE 22-2	Pass	Favorable
KUU3	R	321774406 / 121759615	13.75- 13.772	1 - 33	6	TABLE 22-2	Pass	Favorable
KUU3	R	321774407 / 121759616	13.773- 13.779	1 - 33	6	TABLE 22-2	Pass	Favorable
KUU3	R	321774408 / 121759617	13.778-14	1 - 33	6	TABLE 22-2	Pass	Favorable
KUU3	R	321774409 / 121759618	13.75-14	1 - 33	6	TABLE 22-2	Pass	Favorable
KAD1	E	321774236 / 121759453 321774237 / 121759454 321774238 / 121759455 321774239 / 121759456	17.7-18.2	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD1	E	321774240 / 121759457 321774241 / 121759458	19.7-20.2	1 - 33	3	TABLE 22-1C	Pass	Favorable
KAD1	E	321774242 / 121759659 321774243 / 121759661 321774244 / 121759663 321774245 / 121759665	18.1-18.6	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD1	E	321774246 / 121763445 321774247 / 121763446 321774248 / 121763447 321774249 / 121763448	17.8-18.2	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD2	E	321774250 / 121759463 321774251 / 121759464 321774252 / 121759465 321774253 / 121759466	17.7-18.2	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD2	E	321774254 / 121759467 321774255 / 121759468	19.7-20.2	1 - 33	3	TABLE 22-1C	Pass	Favorable

KAD2	E	321774256 / 121759667 321774257 / 121759669 321774258 / 121759671 321774259 / 121759673	18.1-18.6	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD2	E	321774260 / 121763449 321774261 / 121763450 321774262 / 121763451 321774263 / 121763452	17.8-18.2	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD3	E	321774264 / 121759501 321774265 / 121759502 321774266 / 121759503 321774267 / 121759504	17.7-18.2	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD3	E	321774268 / 121759505 321774269 / 121759506	19.7-20.2	1 - 33	3	TABLE 22-1C	Pass	Favorable
KAD3	E	321774270 / 121759683 321774271 / 121759685 321774272 / 121759687 321774273 / 121759689	18.1-18.6	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD3	E	321774274 / 121763453 321774275 / 121763454 321774276 / 121763455 321774277 / 121763456	17.8-18.2	1 - 33	2, 13	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KUD1	E	321774278 / 121759541 321774279 / 121759542 321774280 / 121759543 321774281 / 121759544 321774282 / 121759545 321774283 / 121759546 321774284 / 121759547	10.7-11.2	1 - 33	1, 11	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUD1	E	321774285 / 121759548 321774286 / 121759549 321774287 / 121759550 321774288 / 121759551 321774289 / 121759552 321774290 / 121759553 321774291 / 121759554	12.5-12.75	1 - 33	1,12	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUD1	E	321774292 / 121759555 321774293 / 121759556 321774294 / 121759557 321774295 / 121759558 321774296 / 121759559 321774297 / 121759560 321774298 / 121759561	11.7-12.2	1 - 33	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KUD1	E	321774299 / 121759562 321774300 / 121759563 321774301 / 121759564 321774302 / 121759565 321774303 / 121759566 321774304 / 121759567 321774305 / 121759568	12.2-12.75	1 - 33	1, 12	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUD1	E	321774306 / 121759705 321774307 / 121759706 321774308 / 121759707 321774309 / 121759708 321774310 / 121759709 321774311 / 121759710 321774312 / 121759711	11.2-11.7	1 - 33	1, 11	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUD2	E	321774313 / 121759569 321774314 / 121759570 321774315 / 121759571 321774316 / 121759572 321774317 / 121759573 321774318 / 121759574 321774319 / 121759575	10.7-11.2	1 - 33	1, 11	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUD2	E	321774320 / 121759576 321774321 / 121759577 321774322 / 121759578 321774323 / 121759579 321774324 / 121759580 321774325 / 121759581 321774326 / 121759582	12.5-12.75	1 - 33	1, 12	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUD2	E	321774327 / 121759583 321774328 / 121759584	11.7-12.2	1 - 33	1	RR 22.5C4 RR 22.5C8	Pass Pass	Favorable

		321774329 / 121759585 321774330 / 121759586 321774331 / 121759587 321774332 / 121759588 321774333 / 121759589				TABLE 22-1A TABLE 22-1D	Pass Pass	
KUD2	E	321774334 / 121759590 321774335 / 121759591 321774336 / 121759592 321774337 / 121759593 321774338 / 121759594 321774339 / 121759595 321774340 / 121759596	12.2-12.75	1 - 33	1, 12	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUD2	E	321774341 / 121759712 321774342 / 121759713 321774343 / 121759714 321774344 / 121759715 321774345 / 121759716 321774346 / 121759717 321774347 / 121759718	11.2-11.7	1 - 33	1, 11	RR 22.5C4 TABLE 22-1A TABLE 22-3	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.