

Description of EPFD validation and results of examination

Input parameters

Downlink scenario

Mask link data

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbits id
2	↑	12750	13250	All
3	↓	11700	12750	All
4	↑	14000	14500	All
5	↔	10700	12750	All
6	↓	10700	11700	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)	22

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1110/1110/53.8	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
0.00038	51.3	1

Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	-50	1
-50	-20	1
-20	20	1
20	50	1
50	90	1

TT&C Uplink Scenario (13.75-14 GHz)

Mask link data

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbits id
1	↑	13750	14000	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
1110/1110/53.8	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
7.7E-08	3600	5

Results

<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>
UA263	R	317858551 / 117640426 317858552 / 117640427 317858553 / 117640428 317858554 / 117640429 317858555 / 117640430 317858556 / 117640431 317858557 / 117640432	12.75- 13.25	1 - 32	2	TABLE 22-2	Pass	Favorable
UA279	R	317858558 / 117640433 317858559 / 117640434 317858560 / 117640435 317858561 / 117640436 317858562 / 117640437 317858563 / 117640438 317858564 / 117640439	12.75- 13.25	1 - 32	2	TABLE 22-2	Pass	Favorable
UA299	R	317858565 / 117640440 317858566 / 117640441 317858567 / 117640442 317858568 / 117640443 317858569 / 117640444 317858570 / 117640445 317858571 / 117640446	12.75- 13.25	1 - 32	2	TABLE 22-2	Pass	Favorable
UA324	R	317858572 / 117640447 317858573 / 117640448 317858574 / 117640449 317858575 / 117640450 317858576 / 117640451 317858577 / 117640452 317858578 / 117640453	12.75- 13.25	1 - 32	2	TABLE 22-2	Pass	Favorable
UA359	R	317858579 / 117640454 317858580 / 117640455 317858581 / 117640456 317858582 / 117640457 317858583 / 117640458 317858584 / 117640459 317858585 / 117640460	12.75- 13.25	1 - 32	2	TABLE 22-2	Pass	Favorable
UA403	R	317858586 / 117640461 317858587 / 117640462 317858588 / 117640463 317858589 / 117640464 317858590 / 117640465 317858591 / 117640466 317858592 / 117640467	12.75- 13.25	1 - 32	2	TABLE 22-2	Pass	Favorable
UB263	R	317858593 / 117640468	13.75-14	1 - 32	1	TABLE 22-2	Pass	Favorable
UB279	R	317858594 / 117640469	13.75-14	1 - 32	1	TABLE 22-2	Pass	Favorable
UB299	R	317858595 / 117640470	13.75-14	1 - 32	1	TABLE 22-2	Pass	Favorable
UB324	R	317858596 / 117640471	13.75-14	1 - 32	1	TABLE 22-2	Pass	Favorable
UB359	R	317858597 / 117640472	13.75-14	1 - 32	1	TABLE 22-2	Pass	Favorable
UB403	R	317858598 / 117640473	13.75-14	1 - 32	1	TABLE 22-2	Pass	Favorable
UC263	R	317858599 / 117640474 317858600 / 117640475 317858601 / 117640476 317858602 / 117640477 317858603 / 117640478 317858604 / 117640479 317858605 / 117640480	14-14.5	1 - 32	4	TABLE 22-2	Pass	Favorable
UC279	R	317858606 / 117640481 317858607 / 117640482 317858608 / 117640483 317858609 / 117640484 317858610 / 117640485 317858611 / 117640486 317858612 / 117640487	14-14.5	1 - 32	4	TABLE 22-2	Pass	Favorable
UC299	R	317858613 / 117640488 317858614 / 117640489 317858615 / 117640490 317858616 / 117640491 317858617 / 117640492	14-14.5	1 - 32	4	TABLE 22-2	Pass	Favorable

		317858618 / 117640493 317858619 / 117640494						
UC324	R	317858620 / 117640495 317858621 / 117640496 317858622 / 117640497 317858623 / 117640498 317858624 / 117640499 317858625 / 117640500 317858626 / 117640501	14-14.5	1 - 32	4	TABLE 22-2	Pass	Favorable
UC359	R	317858627 / 117640502 317858628 / 117640503 317858629 / 117640504 317858630 / 117640505 317858631 / 117640506 317858632 / 117640507 317858633 / 117640508	14-14.5	1 - 32	4	TABLE 22-2	Pass	Favorable
UC403	R	317858634 / 117640509 317858635 / 117640510 317858636 / 117640511 317858637 / 117640512 317858638 / 117640513 317858639 / 117640514 317858640 / 117640515	14-14.5	1 - 32	4	TABLE 22-2	Pass	Favorable
UTTC	R	317858641 / 117640517 317858642 / 117640518 317858643 / 117640519 317858644 / 117640520	13.85-14	1 - 32	1 (TT&C)	TABLE 22-2	Pass	Favorable
DA263	E	317858202 / 117640078 317858203 / 117640079 317858204 / 117640080 317858205 / 117640081 317858206 / 117640082 317858207 / 117640083 317858208 / 117640084 317858209 / 117640085 317858210 / 117640086 317858211 / 117640087 317858212 / 117640088 317858213 / 117640089 317858214 / 117640090 317858215 / 117640091	10.7-11.2	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA263	E	317858216 / 117640092 317858217 / 117640093 317858218 / 117640094 317858219 / 117640095 317858220 / 117640096 317858221 / 117640097 317858222 / 117640098 317858223 / 117640099 317858224 / 117640100 317858225 / 117640101 317858226 / 117640102 317858227 / 117640103 317858228 / 117640104 317858229 / 117640105	11.2-11.7	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA279	E	317858230 / 117640106 317858231 / 117640107 317858232 / 117640108 317858233 / 117640109 317858234 / 117640110 317858235 / 117640111 317858236 / 117640112 317858237 / 117640113 317858238 / 117640114 317858239 / 117640115 317858240 / 117640116 317858241 / 117640117 317858242 / 117640118 317858243 / 117640119	10.7-11.2	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA279	E	317858244 / 117640120 317858245 / 117640121 317858246 / 117640122 317858247 / 117640123	11.2-11.7	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable

		317858248 / 117640124 317858249 / 117640125 317858250 / 117640126 317858251 / 117640127 317858252 / 117640128 317858253 / 117640129 317858254 / 117640130 317858255 / 117640131 317858256 / 117640132 317858257 / 117640133						
DA299	E	317858258 / 117640134 317858259 / 117640135 317858260 / 117640136 317858261 / 117640137 317858262 / 117640138 317858263 / 117640139 317858264 / 117640140 317858265 / 117640141 317858266 / 117640142 317858267 / 117640143 317858268 / 117640144 317858269 / 117640145 317858270 / 117640146 317858271 / 117640147	10.7-11.2	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA299	E	317858272 / 117640148 317858273 / 117640149 317858274 / 117640150 317858275 / 117640151 317858276 / 117640152 317858277 / 117640153 317858278 / 117640154 317858279 / 117640155 317858280 / 117640156 317858281 / 117640157 317858282 / 117640158 317858283 / 117640159 317858284 / 117640160 317858285 / 117640161	11.2-11.7	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA324	E	317858286 / 117640162 317858287 / 117640163 317858288 / 117640164 317858289 / 117640165 317858290 / 117640166 317858291 / 117640167 317858292 / 117640168 317858293 / 117640169 317858294 / 117640170 317858295 / 117640171 317858296 / 117640172 317858297 / 117640173 317858298 / 117640174 317858299 / 117640175	10.7-11.2	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA324	E	317858300 / 117640176 317858301 / 117640177 317858302 / 117640178 317858303 / 117640179 317858304 / 117640180 317858305 / 117640181 317858306 / 117640182 317858307 / 117640183 317858308 / 117640184 317858309 / 117640185 317858310 / 117640186 317858311 / 117640187 317858312 / 117640188 317858313 / 117640189	11.2-11.7	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA359	E	317858314 / 117640190 317858315 / 117640191 317858316 / 117640192 317858317 / 117640193 317858318 / 117640194 317858319 / 117640195 317858320 / 117640196	10.7-11.2	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable

		317858321 / 117640197 317858322 / 117640198 317858323 / 117640199 317858324 / 117640200 317858325 / 117640201 317858326 / 117640202 317858327 / 117640203						
DA359	E	317858328 / 117640204 317858329 / 117640205 317858330 / 117640206 317858331 / 117640207 317858332 / 117640208 317858333 / 117640209 317858334 / 117640210 317858335 / 117640211 317858336 / 117640212 317858337 / 117640213 317858338 / 117640214 317858339 / 117640215 317858340 / 117640216 317858341 / 117640217	11.2-11.7	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA403	E	317858342 / 117640218 317858343 / 117640219 317858344 / 117640220 317858345 / 117640221 317858346 / 117640222 317858347 / 117640223 317858348 / 117640224 317858349 / 117640225 317858350 / 117640226 317858351 / 117640227 317858352 / 117640228 317858353 / 117640229 317858354 / 117640230 317858355 / 117640231	10.7-11.2	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DA403	E	317858356 / 117640232 317858357 / 117640233 317858358 / 117640234 317858359 / 117640235 317858360 / 117640236 317858361 / 117640237 317858362 / 117640238 317858363 / 117640239 317858364 / 117640240 317858365 / 117640241 317858366 / 117640242 317858367 / 117640243 317858368 / 117640244 317858369 / 117640245	11.2-11.7	1 - 32	3, 5, 6	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
DB263	E	317858370 / 117640246 317858371 / 117640247 317858372 / 117640248 317858373 / 117640249 317858374 / 117640250 317858375 / 117640251 317858376 / 117640252 317858384 / 117640260 317858385 / 117640261 317858386 / 117640262 317858387 / 117640263 317858388 / 117640264 317858389 / 117640265 317858390 / 117640266	11.7-12.2	1 - 32	3, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
DB263	E	317858377 / 117640253 317858378 / 117640254 317858379 / 117640255 317858380 / 117640256 317858381 / 117640257 317858382 / 117640258 317858383 / 117640259 317858391 / 117640267 317858392 / 117640268 317858393 / 117640269	12.2-12.7	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable

		317858394 / 117640270 317858395 / 117640271 317858396 / 117640272 317858397 / 117640273						
DB279	E	317858398 / 117640274 317858399 / 117640275 317858400 / 117640276 317858401 / 117640277 317858402 / 117640278 317858403 / 117640279 317858404 / 117640280 317858412 / 117640288 317858413 / 117640289 317858414 / 117640290 317858415 / 117640291 317858416 / 117640292 317858417 / 117640293 317858418 / 117640294	11.7-12.2	1 - 32	3, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
DB279	E	317858405 / 117640281 317858406 / 117640282 317858407 / 117640283 317858408 / 117640284 317858409 / 117640285 317858410 / 117640286 317858411 / 117640287 317858419 / 117640295 317858420 / 117640296 317858421 / 117640297 317858422 / 117640298 317858423 / 117640299 317858424 / 117640300 317858425 / 117640301	12.2-12.7	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
DB299	E	317858426 / 117640302 317858427 / 117640303 317858428 / 117640304 317858429 / 117640305 317858430 / 117640306 317858431 / 117640307 317858432 / 117640308 317858440 / 117640316 317858441 / 117640317 317858442 / 117640318 317858443 / 117640319 317858444 / 117640320 317858445 / 117640321 317858446 / 117640322	11.7-12.2	1 - 32	3, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
DB299	E	317858433 / 117640309 317858434 / 117640310 317858435 / 117640311 317858436 / 117640312 317858437 / 117640313 317858438 / 117640314 317858439 / 117640315 317858447 / 117640323 317858448 / 117640324 317858449 / 117640325 317858450 / 117640326 317858451 / 117640327 317858452 / 117640328 317858453 / 117640329	12.2-12.7	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
DB324	E	317858454 / 117640330 317858455 / 117640331 317858456 / 117640332 317858457 / 117640333 317858458 / 117640334 317858459 / 117640335 317858460 / 117640336 317858468 / 117640344 317858469 / 117640345 317858470 / 117640346 317858471 / 117640347 317858472 / 117640348	11.7-12.2	1 - 32	3, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable

		317858473 / 117640349 317858474 / 117640350						
DB324	E	317858461 / 117640337 317858462 / 117640338 317858463 / 117640339 317858464 / 117640340 317858465 / 117640341 317858466 / 117640342 317858467 / 117640343 317858475 / 117640351 317858476 / 117640352 317858477 / 117640353 317858478 / 117640354 317858479 / 117640355 317858480 / 117640356 317858481 / 117640357	12.2-12.7	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
DB359	E	317858482 / 117640358 317858483 / 117640359 317858484 / 117640360 317858485 / 117640361 317858486 / 117640362 317858487 / 117640363 317858488 / 117640364 317858496 / 117640372 317858497 / 117640373 317858498 / 117640374 317858499 / 117640375 317858500 / 117640376 317858501 / 117640377 317858502 / 117640378	11.7-12.2	1 - 32	3, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
DB359	E	317858489 / 117640365 317858490 / 117640366 317858491 / 117640367 317858492 / 117640368 317858493 / 117640369 317858494 / 117640370 317858495 / 117640371 317858503 / 117640379 317858504 / 117640380 317858505 / 117640381 317858506 / 117640382 317858507 / 117640383 317858508 / 117640384 317858509 / 117640385	12.2-12.7	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
DB403	E	317858510 / 117640386 317858511 / 117640387 317858512 / 117640388 317858513 / 117640389 317858514 / 117640390 317858515 / 117640391 317858516 / 117640392 317858524 / 117640400 317858525 / 117640401 317858526 / 117640402 317858527 / 117640403 317858528 / 117640404 317858529 / 117640405 317858530 / 117640406	11.7-12.2	1 - 32	3, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
DB403	E	317858517 / 117640393 317858518 / 117640394 317858519 / 117640395 317858520 / 117640396 317858521 / 117640397 317858522 / 117640398 317858523 / 117640399 317858531 / 117640407 317858532 / 117640408 317858533 / 117640409 317858534 / 117640410 317858535 / 117640411 317858536 / 117640412 317858537 / 117640413	12.2-12.7	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable

DC263	E	317858538 / 117640414	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DC279	E	317858539 / 117640415	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DC299	E	317858540 / 117640416	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DC324	E	317858541 / 117640417	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DC359	E	317858542 / 117640418	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DC403	E	317858543 / 117640419	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DD263	E	317858544 / 117640420	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DD279	E	317858545 / 117640421	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DD299	E	317858546 / 117640422	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DD324	E	317858547 / 117640423	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DD359	E	317858548 / 117640424	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DD403	E	317858549 / 117640425	12.7-12.75	1 - 32	3, 5, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass N/A	Favorable
DTTC	E	317858550 / 117640516	12.15- 12.25	1 - 32	3, 6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass 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.

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.