

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
6	↓	10700	12750	All
7	↑	12500	14500	All
8	↔	10700	12750	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)	7

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1200/1200/90	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
5E-06	800	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
LGSR KU, LMSR KU, LPSR KU	R	12750	14500	10
LGSE2KU5, LMSE2KU5, LPSE2KU5	E	12700	12750	10
LGSE1KU5, LMSE1KU5, LPSE1KU5	E	10700	12700	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
LGSR KU	R	121629665 121629666 121629667 121629668 121629669 121629670 121629725 121629726 121629727 121629728 121629729 121629730 121629745 121629746 121629747 121629748 121629749 121629750	12.75-13.25	1 - 36	7	TABLE 22-2	Pass	Favorable
LGSR KU	R	121629671 121629672	14-14.5	1 - 36	7	TABLE 22-2	Pass	Favorable

		121629673 121629674 121629675 121629676 121629731 121629732 121629733 121629734 121629735 121629736 121629751 121629752 121629753 121629754 121629755 121629756						
LGSR KU	R	121629701 121629702 121629737 121629738 121629757 121629758	13.75-14	1 - 36	7	TABLE 22-2	Pass	Favorable
LGSR KU	R	121629703 121629704 121629739 121629740 121629759 121629760	13.75- 13.772	1 - 36	7	TABLE 22-2	Pass	Favorable
LGSR KU	R	121629705 121629706 121629741 121629742 121629761 121629762	13.772- 13.778	1 - 36	7	TABLE 22-2	Pass	Favorable
LGSR KU	R	121629707 121629708 121629743 121629744 121629763 121629764	13.778-14	1 - 36	7	TABLE 22-2	Pass	Favorable
LMSR KU	R	121629677 121629678 121629679 121629680 121629681 121629682 121629765 121629766 121629767 121629768 121629769 121629770 121629785 121629786 121629787 121629788 121629789 121629790	12.75-13.25	1 - 36	7	TABLE 22-2	Pass	Favorable
LMSR KU	R	121629683 121629684 121629685 121629686 121629687 121629688 121629771 121629772 121629773 121629774 121629775 121629776 121629791 121629792 121629793	14-14.5	1 - 36	7	TABLE 22-2	Pass	Favorable

		121629794 121629795 121629796						
LMSR KU	R	121629709 121629710 121629777 121629778 121629797 121629798	13.75-14	1 - 36	7	TABLE 22-2	Pass	Favorable
LMSR KU	R	121629711 121629712 121629779 121629780 121629799 121629800	13.75- 13.772	1 - 36	7	TABLE 22-2	Pass	Favorable
LMSR KU	R	121629713 121629714 121629781 121629782 121629801 121629802	13.772- 13.778	1 - 36	7	TABLE 22-2	Pass	Favorable
LMSR KU	R	121629715 121629716 121629783 121629784 121629803 121629804	13.778-14	1 - 36	7	TABLE 22-2	Pass	Favorable
LPSR KU	R	121629689 121629690 121629691 121629692 121629693 121629694 121629805 121629806 121629807 121629808 121629809 121629810 121629825 121629826 121629827 121629828 121629829 121629830	12.75-13.25	1 - 36	7	TABLE 22-2	Pass	Favorable
LPSR KU	R	121629695 121629696 121629697 121629698 121629699 121629700 121629811 121629812 121629813 121629814 121629815 121629816 121629831 121629832 121629833 121629834 121629835 121629836	14-14.5	1 - 36	7	TABLE 22-2	Pass	Favorable
LPSR KU	R	121629717 121629718 121629817 121629818 121629837 121629838	13.75-14	1 - 36	7	TABLE 22-2	Pass	Favorable
LPSR KU	R	121629719 121629720 121629819 121629820	13.75- 13.772	1 - 36	7	TABLE 22-2	Pass	Favorable

		121629839 121629840						
LPSR KU	R	121629721 121629722 121629821 121629822 121629841 121629842	13.772- 13.778	1 - 36	7	TABLE 22-2	Pass	Favorable
LPSR KU	R	121629723 121629724 121629823 121629824 121629843 121629844	13.778-14	1 - 36	7	TABLE 22-2	Pass	Favorable
LGSE1KU5	E	121629485 121629486 121629487 121629488 121629489 121629490 121629845 121629846 121629847 121629848 121629849 121629850 121629899 121629900 121629901 121629902 121629903 121629904	10.7-11.45	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
LGSE1KU5	E	121629491 121629495 121629499 121629503 121629507 121629511 121629851 121629855 121629859 121629863 121629867 121629871 121629905 121629909 121629913 121629917 121629921 121629925	10.95-11.2	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
LGSE1KU5	E	121629492 121629496 121629500 121629504 121629508 121629512 121629852 121629856 121629860 121629864 121629868 121629872 121629906 121629910 121629914 121629918 121629922 121629926	11.45-11.7	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
LGSE1KU5	E	121629493 121629497 121629501 121629505 121629509	11.7-12.2	1 - 36	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable

		121629513 121629515 121629516 121629517 121629518 121629519 121629520 121629853 121629857 121629861 121629865 121629869 121629873 121629875 121629876 121629877 121629878 121629879 121629880 121629907 121629911 121629915 121629919 121629923 121629927 121629929 121629930 121629931 121629932 121629933 121629934						
LGSE1KU5	E	121629494 121629498 121629502 121629506 121629510 121629514 121629527 121629528 121629529 121629530 121629531 121629532 121629854 121629858 121629862 121629866 121629870 121629874 121629887 121629888 121629889 121629890 121629891 121629892 121629908 121629912 121629916 121629920 121629924 121629928 121629941 121629942 121629943 121629944 121629945 121629946	12.2-12.45	1 - 36	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
LGSE1KU5	E	121629521 121629522 121629523 121629524 121629525 121629526	12.45-12.7	1 - 36	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable

		121629533 121629534 121629535 121629536 121629537 121629538 121629881 121629882 121629883 121629884 121629885 121629886 121629893 121629894 121629895 121629896 121629897 121629898 121629935 121629936 121629937 121629938 121629939 121629940 121629947 121629948 121629949 121629950 121629951 121629952						
LGSE2KU5	E	121629539 121629540 121629541 121629542 121629543 121629544 121629953 121629954 121629955 121629956 121629957 121629958 121629959 121629960 121629961 121629962 121629963 121629964	12.7-12.75	1 - 36	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
LMSE1KU5	E	121629545 121629546 121629547 121629548 121629549 121629550 121629965 121629966 121629967 121629968 121629969 121629970 121630019 121630020 121630021 121630022 121630023 121630024	10.7-11.45	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
LMSE1KU5	E	121629551 121629555 121629559 121629563 121629567 121629571 121629971	10.95-11.2	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable

		121629975 121629979 121629983 121629987 121629991 121630025 121630029 121630033 121630037 121630041 121630045						
LMSE1KU5	E	121629552 121629556 121629560 121629564 121629568 121629572 121629972 121629976 121629980 121629984 121629988 121629992 121630026 121630030 121630034 121630038 121630042 121630046	11.45-11.7	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
LMSE1KU5	E	121629553 121629557 121629561 121629565 121629569 121629573 121629575 121629576 121629577 121629578 121629579 121629580 121629973 121629977 121629981 121629985 121629989 121629993 121629995 121629996 121629997 121629998 121629999 121630000 121630027 121630031 121630035 121630039 121630043 121630047 121630049 121630050 121630051 121630052 121630053 121630054	11.7-12.2	1 - 36	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
LMSE1KU5	E	121629554 121629558 121629562 121629566 121629570 121629574 121629587 121629588	12.2-12.45	1 - 36	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable

		121629589 121629590 121629591 121629592 121629974 121629978 121629982 121629986 121629990 121629994 121630007 121630008 121630009 121630010 121630011 121630012 121630028 121630032 121630036 121630040 121630044 121630048 121630061 121630062 121630063 121630064 121630065 121630066						
LMSE1KU5	E	121629581 121629582 121629583 121629584 121629585 121629586 121629593 121629594 121629595 121629596 121629597 121629598 121630001 121630002 121630003 121630004 121630005 121630006 121630013 121630014 121630015 121630016 121630017 121630018 121630055 121630056 121630057 121630058 121630059 121630060 121630067 121630068 121630069 121630070 121630071 121630072	12.45-12.7	1 - 36	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable
LMSE2KU5	E	121629599 121629600 121629601 121629602 121629603 121629604 121630073 121630074 121630075	12.7-12.75	1 - 36	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable

		121630076 121630077 121630078 121630079 121630080 121630081 121630082 121630083 121630084						
LPSE1KU5	E	121629605 121629606 121629607 121629608 121629609 121629610 121630085 121630086 121630087 121630088 121630089 121630090 121630139 121630140 121630141 121630142 121630143 121630144	10.7-11.45	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
LPSE1KU5	E	121629611 121629615 121629619 121629623 121629627 121629631 121630091 121630095 121630099 121630103 121630107 121630111 121630145 121630149 121630153 121630157 121630161 121630165	10.95-11.2	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
LPSE1KU5	E	121629612 121629616 121629620 121629624 121629628 121629632 121630092 121630096 121630100 121630104 121630108 121630112 121630146 121630150 121630154 121630158 121630162 121630166	11.45-11.7	1 - 36	6, 8	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
LPSE1KU5	E	121629613 121629617 121629621 121629625 121629629 121629633 121629635 121629636 121629637 121629638	11.7-12.2	1 - 36	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable

		121629639 121629640 121630093 121630097 121630101 121630105 121630109 121630113 121630115 121630116 121630117 121630118 121630119 121630120 121630147 121630151 121630155 121630159 121630163 121630167 121630169 121630170 121630171 121630172 121630173 121630174						
LPSE1KU5	E	121629614 121629618 121629622 121629626 121629630 121629634 121629647 121629648 121629649 121629650 121629651 121629652 121630094 121630098 121630102 121630106 121630110 121630114 121630127 121630128 121630129 121630130 121630131 121630132 121630148 121630152 121630156 121630160 121630164 121630168 121630181 121630182 121630183 121630184 121630185 121630186	12.2-12.45	1 - 36	6	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	N/A Pass N/A Pass	Favorable
LPSE1KU5	E	121629641 121629642 121629643 121629644 121629645 121629646 121629653 121629654 121629655 121629656 121629657	12.45-12.7	1 - 36	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	Favorable

		121629658 121630121 121630122 121630123 121630124 121630125 121630126 121630133 121630134 121630135 121630136 121630137 121630138 121630175 121630176 121630177 121630178 121630179 121630180 121630187 121630188 121630189 121630190 121630191 121630192						
LPSE2KU5	E	121629659 121629660 121629661 121629662 121629663 121629664 121630193 121630194 121630195 121630196 121630197 121630198 121630199 121630200 121630201 121630202 121630203 121630204	12.7-12.75	1 - 36	6, 8	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass N/A Pass N/A N/A	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.