

Tests witnessed by: ..... on date: ..... performed @ test range: .....

ANTENNA ASSEMBLY S/N: ..... FEED ASSEMBLY S/N: .....

<b>FREQUENCY ( GHz)</b>		<b>10.70 ÷ 12.75</b>	<b>13.75</b>	<b>14.0</b>	<b>14.25</b>	<b>14.5</b>
<b>PLANE, POLARISATION</b>						
<b>AZ (E-PLANE), HOR POL</b>	<b>SL PEAK [<math>\alpha \div 9.2^\circ</math>]</b>					
	<b>SL PEAK [<math>9.2^\circ \div 48^\circ</math>]</b>					
	<b>XPD</b>					
<b>AZ (H-PLANE), VER POL</b>	<b>SL PEAK [<math>\alpha \div 9.2^\circ</math>]</b>					
	<b>SL PEAK [<math>9.2^\circ \div 48^\circ</math>]</b>					
	<b>XPD</b>					
<b>EL (H-PLANE), HOR POL</b>	<b>SL PEAK [<math>\alpha \div 9.2^\circ</math>]</b>					
	<b>XPD</b>					
<b>EL (E-PLANE), VER POL</b>	<b>SL PEAK [<math>\alpha \div 9.2^\circ</math>]</b>					
	<b>XPD</b>					
<b>AZ (E-PLANE), HOR POL</b>	<b>SL PEAK [<math>48^\circ \div 180^\circ</math>]</b>					
<b>AZ (H-PLANE), VER POL</b>	<b>SL PEAK [<math>48^\circ \div 180^\circ</math>]</b>					
<b>AZ, HOR + 20° POL</b>	<b>SL PEAK [<math>\alpha \div 9.2^\circ</math>]</b>					
	<b>XPD</b>					
<b>AZ, HOR - 20° POL</b>	<b>SL PEAK [<math>\alpha \div 9.2^\circ</math>]</b>					
	<b>XPD</b>					
<b>AZ, VER + 20° POL</b>	<b>SL PEAK [<math>\alpha \div 9.2^\circ</math>]</b>					
	<b>XPD</b>					
<b>AZ, VER - 20° POL</b>	<b>SL PEAK [<math>\alpha \div 9.2^\circ</math>]</b>					
	<b>XPD</b>					
<b>GAIN TX HOR / VER POL</b>						
<b>GAIN RX HOR / VER POL</b>						

Note 1: in reporting values [all values in dB] under AZ or EL cuts, indicate the available margin with respect to the EESS masks (EESS 502 refers).

Note 2: in reporting values under XPD (Cross-Polar Discrimination) cuts, indicate the worst case measured XPD value at the -1 dB contour of the main beam.

Note 3: additional measurements of the 9 points XPD shall be performed, in line with ESOG Vol I Module 130 Par. 7.2, for both H and V polarisations at the frequencies indicated, see Fig. 3.

**FIG. 1: KU-BAND TYPE APPROVAL SPREADSHEET**

**Antenna Diameter : ..... Mask starts at  $\alpha = 100\lambda/D$  (or  $1^\circ$ ) = .....**

**(REPEAT FOR MINIMUM THREE ANTENNA SYSTEMS)**

Tests witnessed by: ..... on date: ..... performed @ test range: .....  
 ANTENNA ASSEMBLY S/N: ..... FEED ASSEMBLY S/N: .....

<i>FREQUENCY ( GHz)</i>		<b>3.60 ÷ 4.20</b>	<b>5.85</b>	<b>6.135</b>	<b>6.425</b>
<i>PLANE, POLARISATION</i>					
AZ (E-PLANE), RHCP	SL PEAK [ $\alpha \div 9.2^\circ$ ] SL PEAK [ $9.2^\circ \div 48^\circ$ ] XPD				
AZ (H-PLANE), LHCP	SL PEAK [ $\alpha \div 9.2^\circ$ ] SL PEAK [ $9.2^\circ \div 48^\circ$ ] XPD				
EL (H-PLANE), RHCP	SL PEAK [ $\alpha \div 9.2^\circ$ ] XPD				
EL (E-PLANE), LHCP	SL PEAK [ $\alpha \div 9.2^\circ$ ] XPD				
AZ (E-PLANE), RHCP	SL PEAK [ $48^\circ \div 180^\circ$ ]				
AZ (H-PLANE), LHCP	SL PEAK [ $48^\circ \div 180^\circ$ ]				
AZ, RHCP + 20° POL	SL PEAK [ $\alpha \div 9.2^\circ$ ] XPD				
AZ, RHCP - 20° POL	SL PEAK [ $\alpha \div 9.2^\circ$ ] XPD				
AZ, LHCP + 20° POL	SL PEAK [ $\alpha \div 9.2^\circ$ ] XPD				
AZ, LHCP - 20° POL	SL PEAK [ $\alpha \div 9.2^\circ$ ] XPD				
GAIN TX RHCP / LHCP					
GAIN RX RHCP / LHCP					

Note 1: in reporting values [all values in dB] under AZ or EL cuts, indicate the available margin with respect to the EESS masks (EESS 502 refers).

Note 2: in reporting values under XPD (Cross-Polar Discrimination) cuts, indicate the worst case measured XPD value at the -1 dB contour of the main beam.

Note 3: additional measurements of the 9 points XPD shall be performed, in line with ESOG Vol I Module 130 Par. 7.2, for both H and V polarisations at the frequencies indicated, see Fig. 3.

**FIG. 2: C-BAND TYPE APPROVAL SPREADSHEET**

Antenna Diameter : ..... Mask starts at  $\alpha = 100/\lambda D$  (or  $1^\circ$ ) = .....

(REPEAT FOR MINIMUM THREE ANTENNA SYSTEMS)