

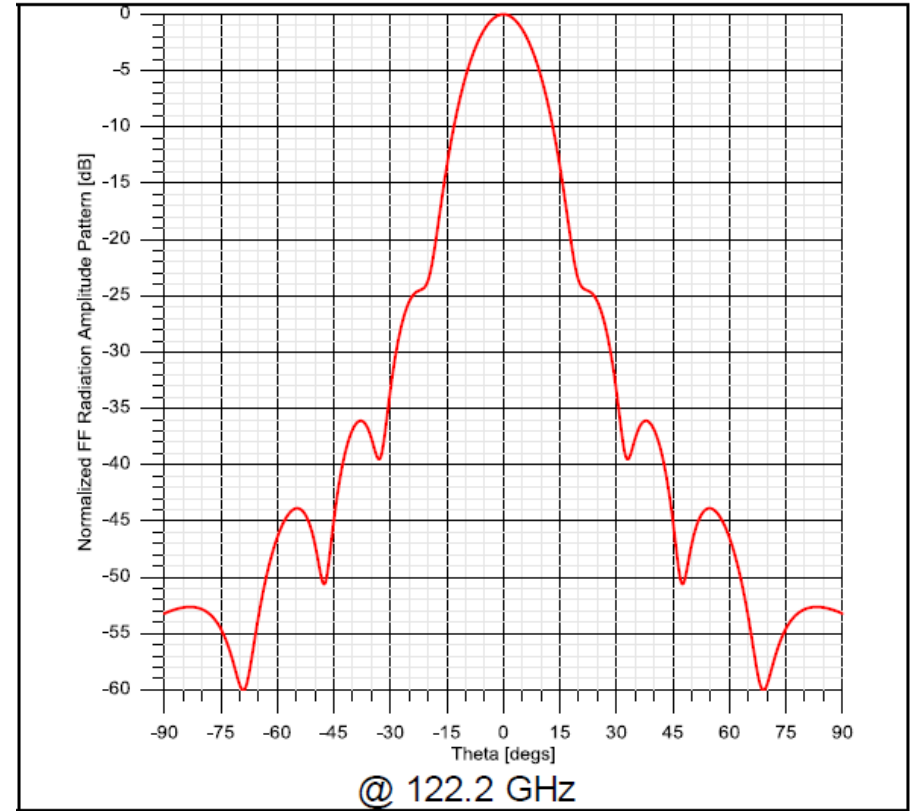
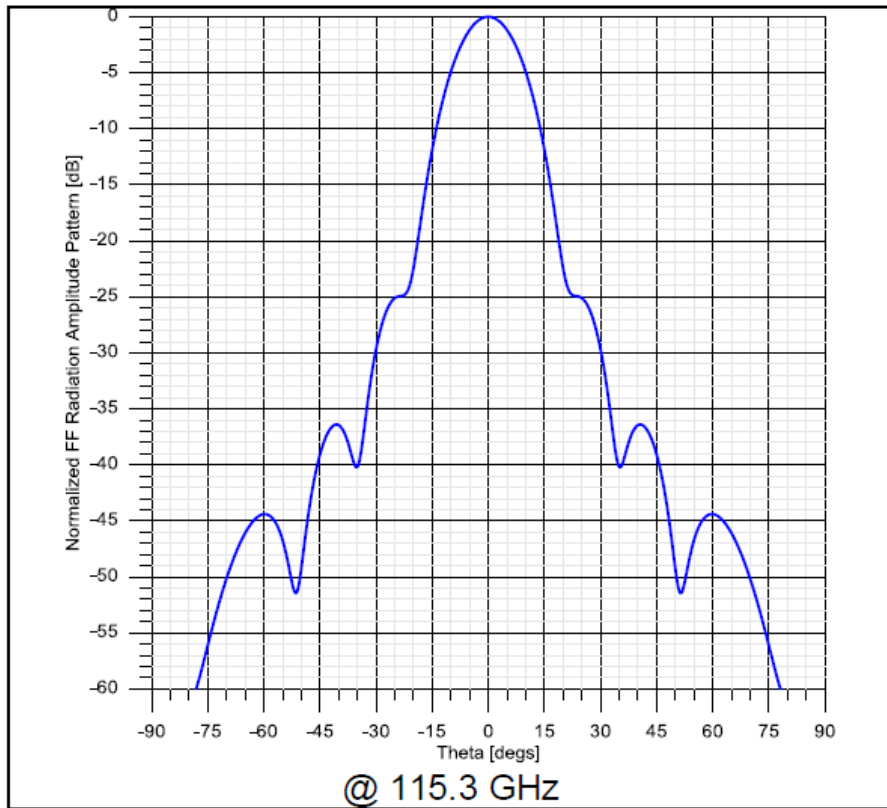
Annex1: ESA/EUMETSAT passive sensor parameters in the 116-122, 174.8-182 and 185-190 GHz bands

Sensor ID	MWI	MHS	MWI	MWS	ICI	AWS
<b>Frequency range (GHz)</b>	114.25-122.25	174.8-191.8				174.8-182
<b>Sensor type</b>	Conical scan	Nadir scan	Conical scan	Nadir scan	Conical scan	Nadir scan
<b>Orbit parameters</b>						
<b>Altitude (km)</b>	830	822	830	830	830	600
<b>Inclination (°)</b>	98.7	98.7	98.7	98.7	98.7	98.7
<b>Eccentricity</b>	0.001	0.001	0.001	0.001	0.001	0.001
<b>Repeat period (days)</b>	29	29	29	29	29	TBD <sup>1</sup>
<b>Sensor antenna parameters</b>						
<b>Maximum beam gain (dBi)</b>	55.5	44.8	56.9	43	52	50
<b>-3 dB beamwidth (°)</b>	Att.1	1.1	Att.2	Att.3	Att.4	Att.3
<b>Off nadir pointing angle (°)</b>	45.2	49.4	45.2	49	45.2	49
<b>Sensor protection criteria</b>						
<b>Reference bandwidth (MHz)</b>	200	200	200	200	200	200
<b>Maximum interference level (dBW)</b>	-166	-163	-163	-163	-163	-163
<b>Percentage of area or time permissible interference level may be exceeded (%)</b>	0.01	0.01	0.01	0.01	0.01	0.01

<sup>1</sup> the repeat cycle value depends on the number of satellites in a possible small constellation of small satellites

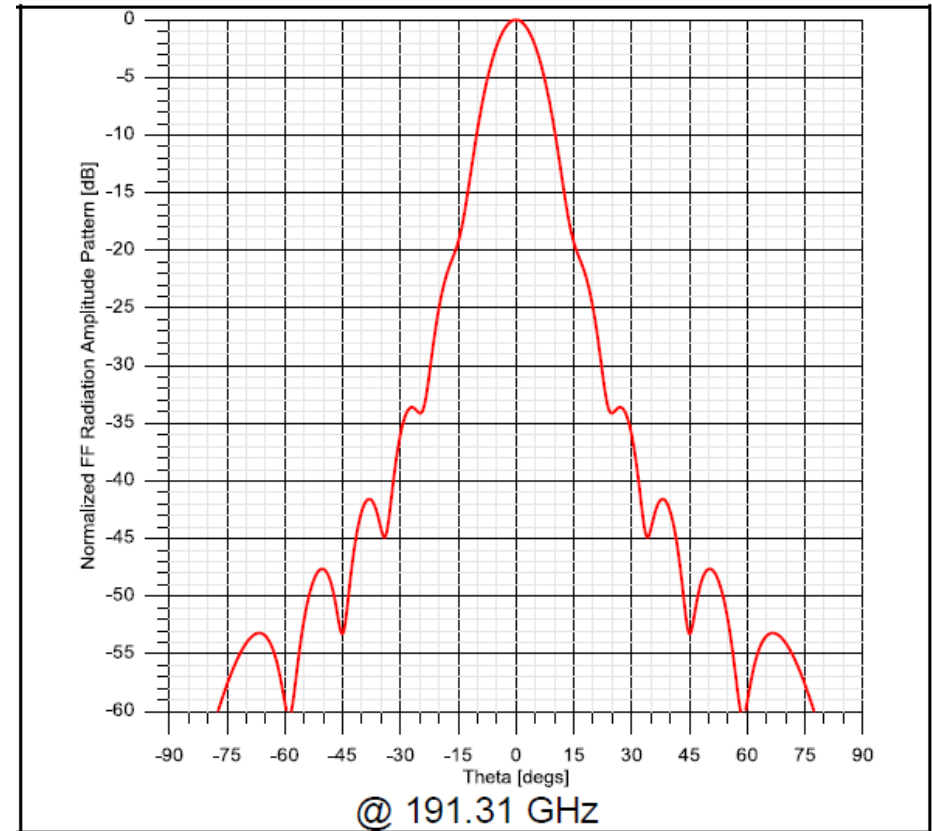
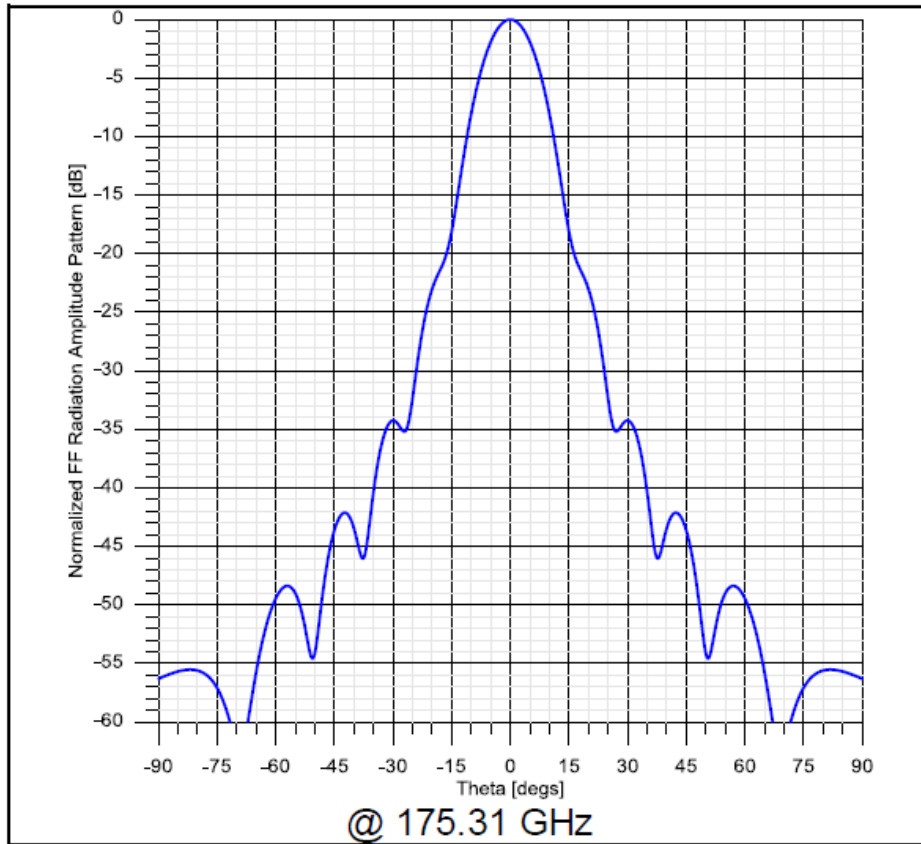


## ATTACHMENT 1 (Antenna Pattern for MWI, 118 GHz)



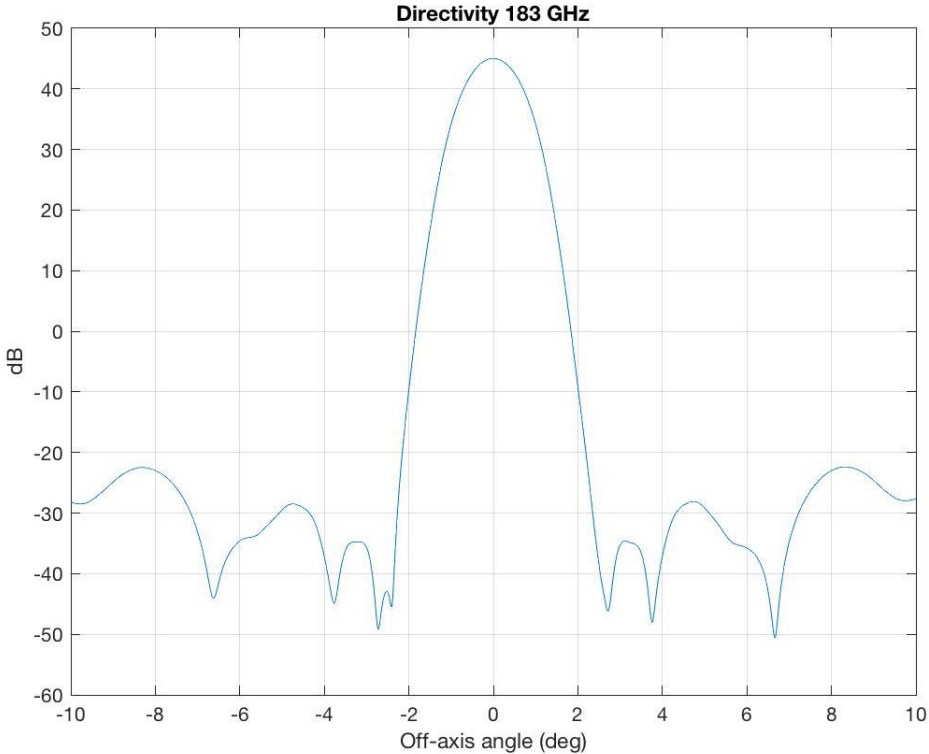
Note: The values on the X-axis should be interpreted as being 10 times the actual offset angle values (e.g. 15° on the X-axis means 1.5° offset angle)

## ATTACHMENT 2 (Antenna Pattern for MWI, 183 GHz)



Note: The values on the X-axis should be interpreted as being 10 times the actual offset angle values (e.g. 15° on the X-axis means 1.5° offset angle)

**ATTACHMENT 3 (Antenna Pattern for MWS, 183 GHz)**



### ATTACHMENT 4 (Antenna Pattern for ICI, 183 GHz)

(Co-polar radiation pattern zoomed area from -1.3 to 2.7°)

