

Import 3D antenna from Antios matrix

Release number v1.0

1. Introduction

This feature will create 3D antenna from Antios input file (Ascii format).

2. Parameters setting

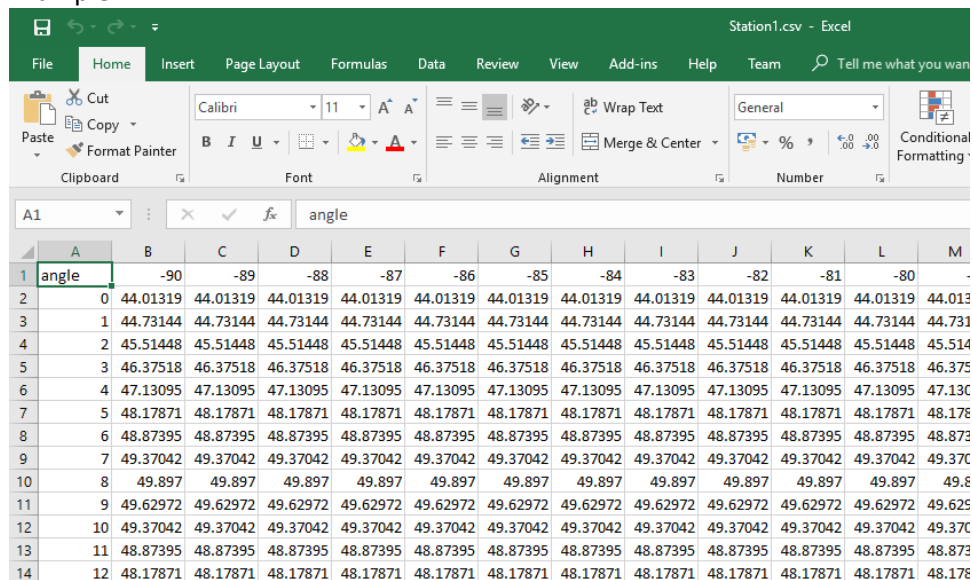
The function is available from the menu **Database/Library/Antenna database/Import 3D antenna from Antios matrix...**

1. First select the source 3D antenna file.

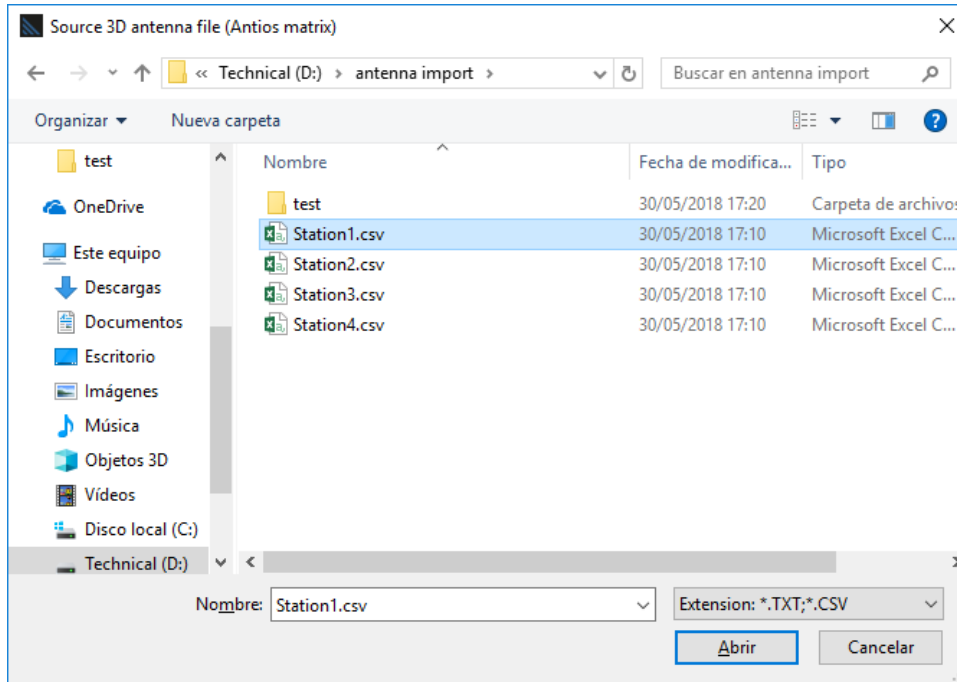
Format: for each azimuth (from 0° to 359°), the attenuation is given for each elevation angle (from -90° to 90°):

- Horizontal angles from 0 to 359° , every degree (360 values);
- Vertical angles from -90° to $+90^{\circ}$ with a step of either 1° (181 values) or a step of 0.1° (1801 values);
- Attenuations must be positive.

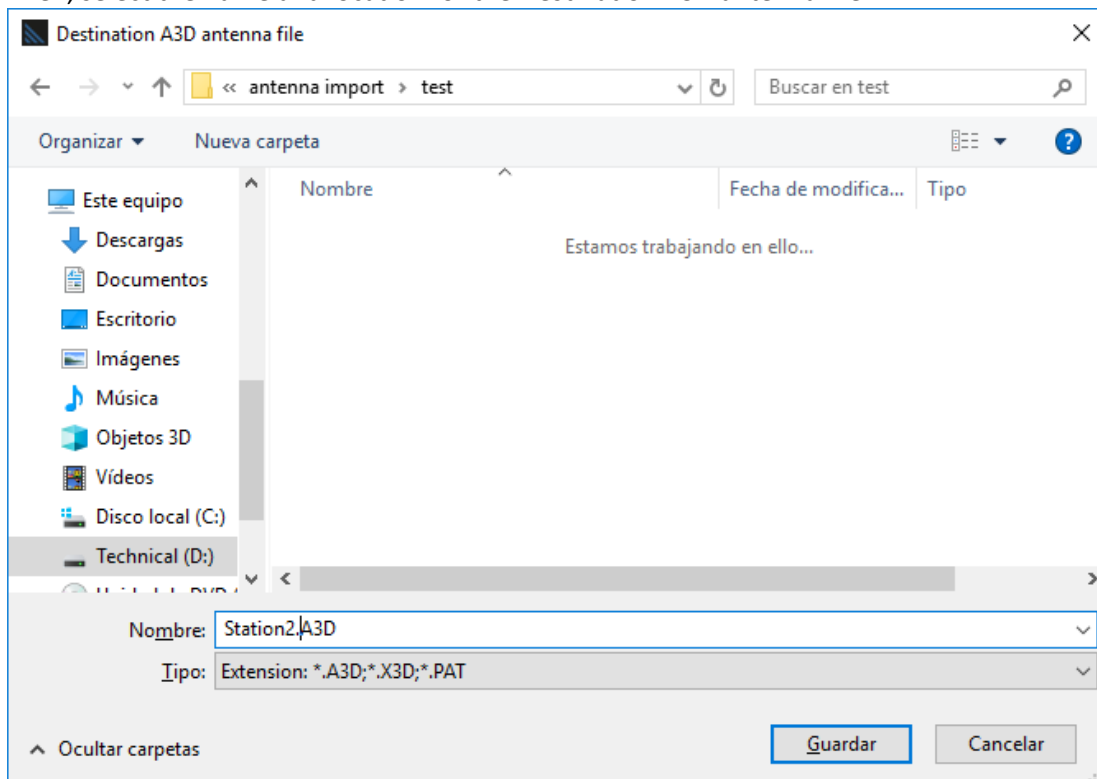
Example:



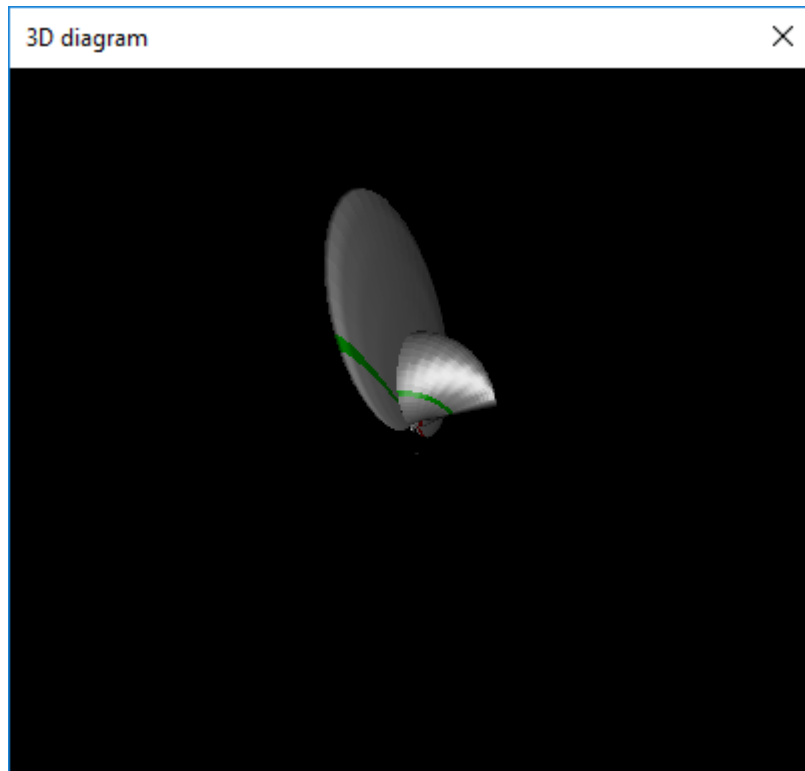
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	angle	-90	-89	-88	-87	-86	-85	-84	-83	-82	-81	-80	-
2	0	44.01319	44.01319	44.01319	44.01319	44.01319	44.01319	44.01319	44.01319	44.01319	44.01319	44.01319	44.01319
3	1	44.73144	44.73144	44.73144	44.73144	44.73144	44.73144	44.73144	44.73144	44.73144	44.73144	44.73144	44.73144
4	2	45.51448	45.51448	45.51448	45.51448	45.51448	45.51448	45.51448	45.51448	45.51448	45.51448	45.51448	45.51448
5	3	46.37518	46.37518	46.37518	46.37518	46.37518	46.37518	46.37518	46.37518	46.37518	46.37518	46.37518	46.37518
6	4	47.13095	47.13095	47.13095	47.13095	47.13095	47.13095	47.13095	47.13095	47.13095	47.13095	47.13095	47.13095
7	5	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871
8	6	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395
9	7	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042
10	8	49.897	49.897	49.897	49.897	49.897	49.897	49.897	49.897	49.897	49.897	49.897	49.897
11	9	49.62972	49.62972	49.62972	49.62972	49.62972	49.62972	49.62972	49.62972	49.62972	49.62972	49.62972	49.62972
12	10	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042	49.37042
13	11	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395	48.87395
14	12	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871	48.17871



2. Then, select the name and location for the Destination A3D antenna file:



The file will be created and a 3D diagram of the antenna will be displayed:



Once the A3D files are created, the patterns can be attached to a given station from the "Patterns" tab of the station parameters with:

