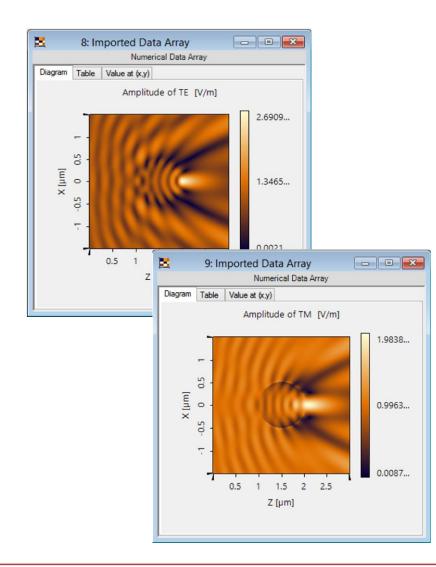


#### **Data Array Import with Saved Settings**

#### Abstract



Data is often stored in the form of .txt, .csv, .bmp etc. VirtualLab Fusion supports to import these data forms and store them into Data Array. It is often the case that the engineer needs to import multiple Data Arrays which have similar settings, e.g. the sampling distance, the label of axis, the units, etc. VirtualLab Fusion supports to save the settings and load the settings for multiple Data Arrays.

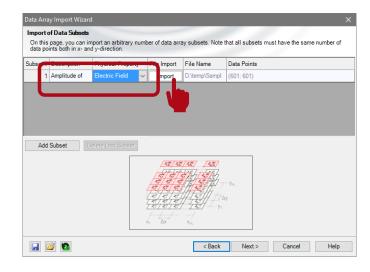
# **Initialize Data Array Import Wizard**

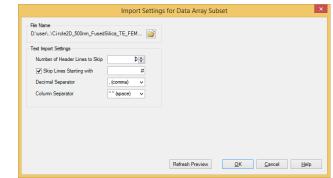
- Click *File*, click *Import* to choose *Import to Numerical Data Array*.
- Then the Data Array Import Wizard is shown.
- Click Next.



## **Import Data Array**

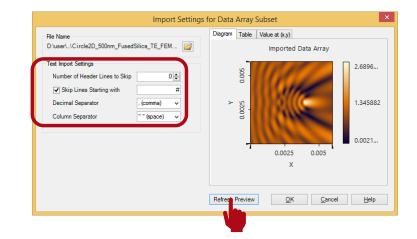
- We come to *Import of Data Subsets*.
- Fill the Description, e.g. Amplitude of TE.
- Choose Physical Property, e.g. Electric field.
- Click *Import* and choose the data file to import.
- After choosing the data file, then the Import Settings is shown.





## **Import Data Array**

- Set the Text Import Settings according to the original data file, e.g. as shown in the figure.
- Click *Refresh Preview* to see the preview.
- Click OK to finish this part.



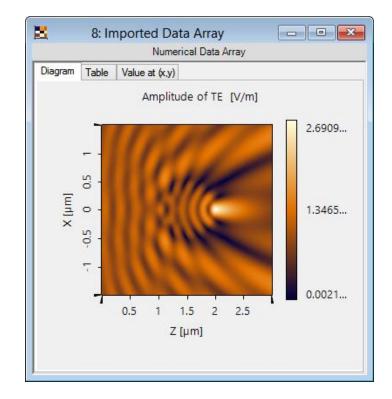
# **Save Import Settings**

- Click *Next* to go to the Coordinate Settings.
- Set all the Coordinate parameters according to the original file, e.g. as shown in the figure.
- Click Save Import Settings to save the daImport file.
- Click Finish.

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Add	Subset	elete Last Subset					
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	ž 🛐			< Back	Net >	Cancel H	lelp
					IJ		
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Coord Set u	-	Z		sampled in both x-	and y-direction.	X Length	
Coord Set u	p the coordinates of Description	Z	, equidistantly s	sampled in both x- Descrip Physica	and y-direction.	Length	
Coord Set u	p the coordinates Crass Description Physical Property	Z	, equidistantly s	sampled in both x- Descrip Physica	and y-direction. tion I Property tion Method	Length	
Coord Set u	p the coordinates Description Physical Property Interpolation Meth	Z Length od Cubic 8 Po	, equidistantly s	Dimens	and y-direction. tion I Property tion Method	Length	
Coord Set u	p the coordinates Description Physical Property Interpolation Meth- Dimensions	Z Length od Cubic 8 Po	, equidistantly s	Dimens	and y-direction. ion I Property tion Method ions ig Distance	Length Cubic 8 Point	
Coord Set u	p the coordinates of Description Physical Property Interpolation Meth- Dimensions Sampling Distance	Z Length od Cubic 8 Po	, equidistantly s	Descrip Physica Dimens Samplir Postion	and y-direction. ion I Property tion Method ions ig Distance	Length Cubic 8 Point	
Coord Set u	p the coordinates of Description Physical Property Interpolation Methodismons Sampling Distance Positioning	Z Length od Cubic 8 Pr	oint v	Descrip Physica Dimens Samplir Postion	and y-direction. I Property tion Method ions ig Distance ing	Length Cubic 8 Point	

### **Import Imported Data Array**

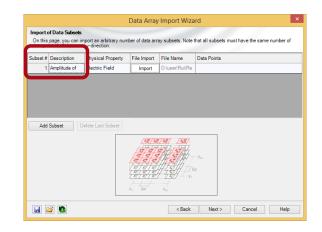
• The imported data is shown.



### **Import Data Array with Saved Setting**

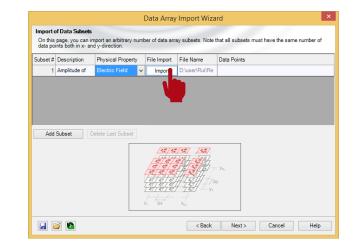
- Click Load Import Settings and load the saved .daImport file
- Click next to go to Import of Data Subsets.
- Change the Description if necessary, e.g. Amplitude of TM.

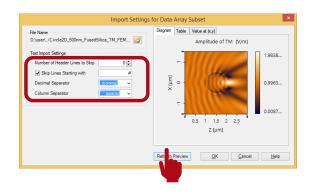




## **Import Data Array with Saved Setting**

- Click *Import* and choose another data file to import.
- After choosing the data file, then the Import Settings is shown.
- The saved settings are already there.
- Click *Refresh Preview* to see the preview.
- Click OK to finish this part.





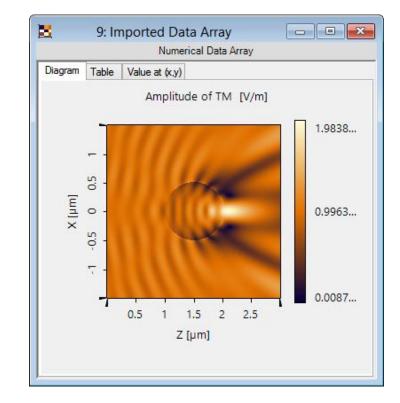
## **Import Data Array with Saved Setting**

- Click next to go to
   Coordinate Settings.
- The parameters are already there as saved.
- Click Finish.

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	of Data Subsets						
a po	ints both in x-a	mport an arbitrary nu nd y-direction.	mber of data ar	ray subsets. Note	that all subse	ets must have the s	same number of
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			<u> </u>		— У <sub>М</sub> , Ду		
1 6	<i>i</i>			< Back	Next	Cancel	Help
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	Coordinate Setti	inates of the data array h			d nd y-direction.	x	
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	Coordinate Setti Set up the coord Description Physical Pr Interpolation Dimension Sampling I Positioning	nates of the data array h	ere, equidistantly a v 8 Point v 5 nm	sampled in both x- a y-Axis Descripti Physical Interpolat Dimensio Sampling Postionin	d nd y-direction. on Property on Method na p Distance ng	Length Cubic 8 Point	×
	Coordinate Setti Set up the coord Description Physical Pr Interpolation Dimension Sampling I Positioning	nates of the data array h	ere, equidistantly a v 8 Point v 5 nm	sampled in both x- a y-Axis Descripti Physical Interpolat Dimensio Sampling Postionin	d nd y-direction. on Property on Method na p Distance ng	Length Cubic 8 Point	×
	Coordinate Sati Set up the coord Description Physical Pr Interpolatio Dimension Sampling I Postioning Stat Coord	nates of the data array h	ere, equidistantly a v 8 Point v 5 nm	sampled in both x- a y-Axis Descripti Physical Interpolat Dimensio Sampling Positionin Center A	d nd y-direction. on Property on Method na p Distance ng	Length Cubic 8 Point	×

# **View Imported Data Array**

• The imported data is shown.



#### **Document Information**

title	Data Array Import with Saved Settings
version	1.0
VL version used for simulations	7.0.3.4
category	Feature Use Case