

Data Sheet CUV

TPX Cuvette for THz transmission measurements of liquids



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1 General

The **TPX Cuvette (CUV)** has been developed for simple transmission measurements of liquids. For the best results we recommend using our **Sample Holder Transmission (SHT)**¹ to position the **TPX Cuvette** properly in the THz beam path.

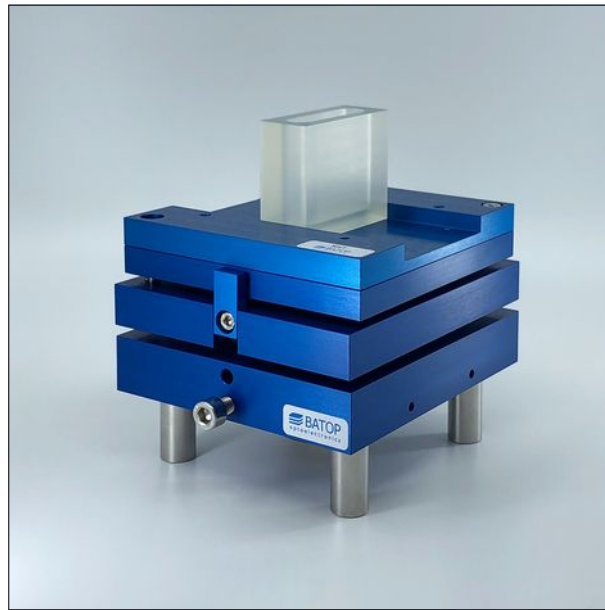


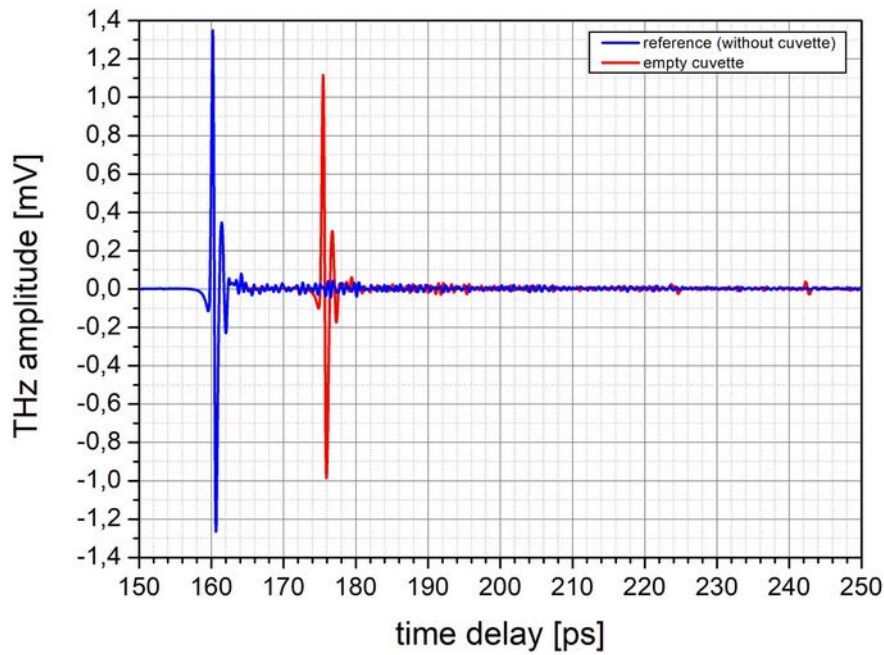
Figure 1: **CUV** on our **Sample Holder Transmission (SHT)**¹

2 Parameter

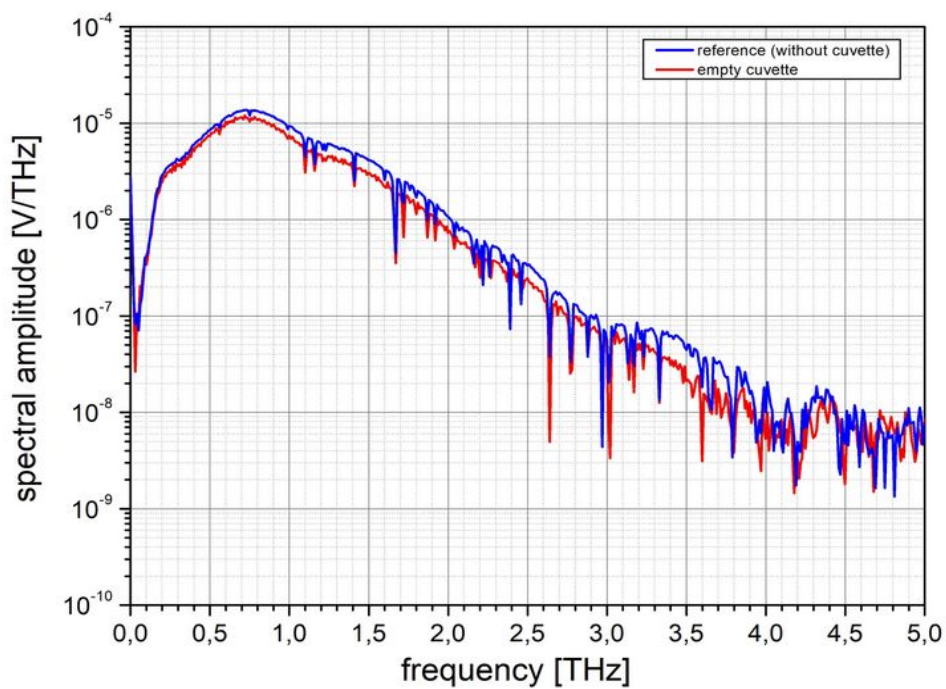
Material	TPX
Complex refractive index	1.46 ($k = 0.85 \cdot 10^{-3}$)
Dimensions	50 x 20 x 41 mm (L x W x H)
Volume	13.6 ml
Path length (TPX)	2x 5.0 mm
Path length (liquid)	10.0 mm
Time delay	15.3 ps

¹ Not included

3 Terahertz Transmission Measurements

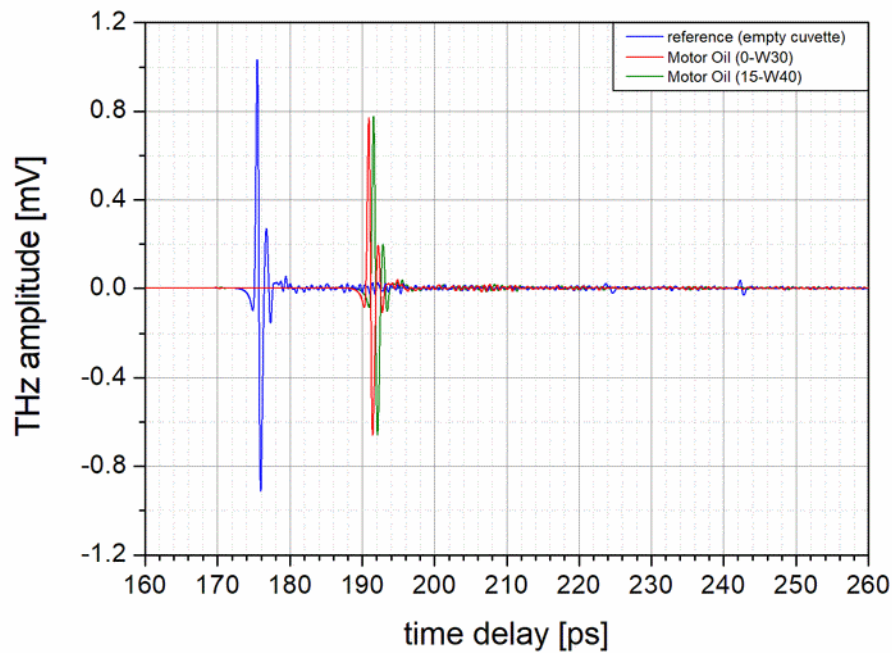


(a)

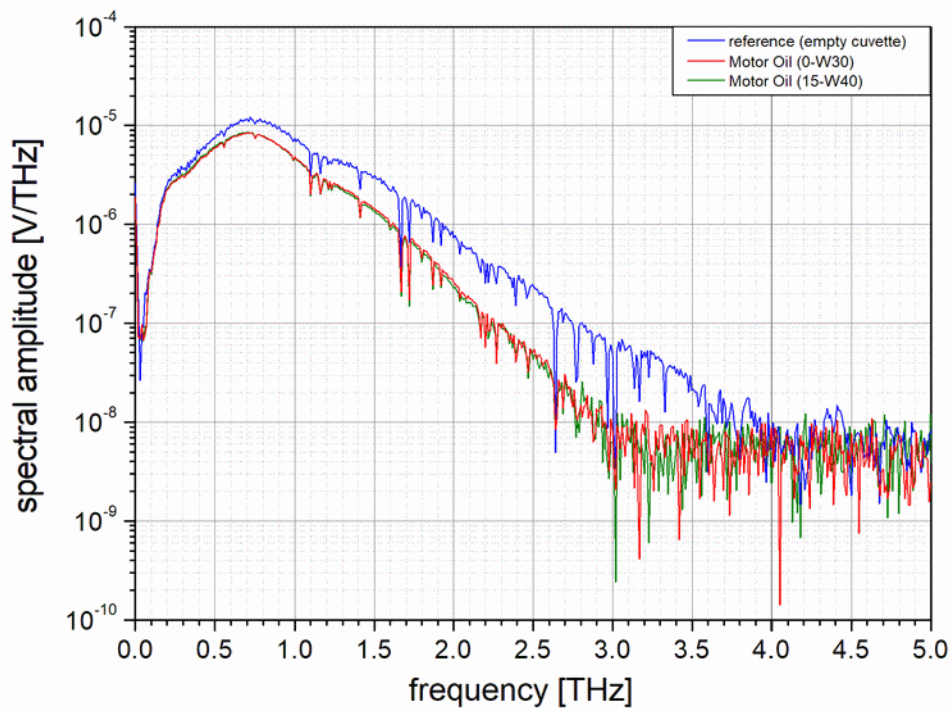


(b)

Figure 2: THz pulse (a) and spectrum (b) without and with an empty CUV



(a)



(b)

Figure 3: THz pulse (a) and spectrum (b) with an empty CUV and with two motor oil samples

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