



Application Note AN-NIR-023

PET - NIRS

Determination of diethylene glycol, isophthalic acid, intrinsic viscosity, and acid number within one minute with NIRS

(ASTM D4603),(PET)(AN),,

DS2500 (Vis-NIR) PETVis-NIR PET .

EXPERIMENTAL EQUIPMENT

DS2500 (400–2500 nm) PET DS2500 , 1, Metrohm
Vision Air Complete

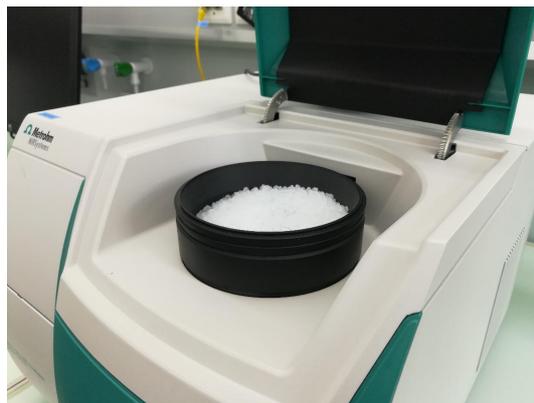


Figure 1. DS2500 DS2500 PET

1

DS2500 Solid Analyzer	2.922.0010
DS2500	6.7402.050
Vision Air 2.0 Complete	6.6072.208

RESULTS

Vis-NIR (2), Vis-NIR (FOM)

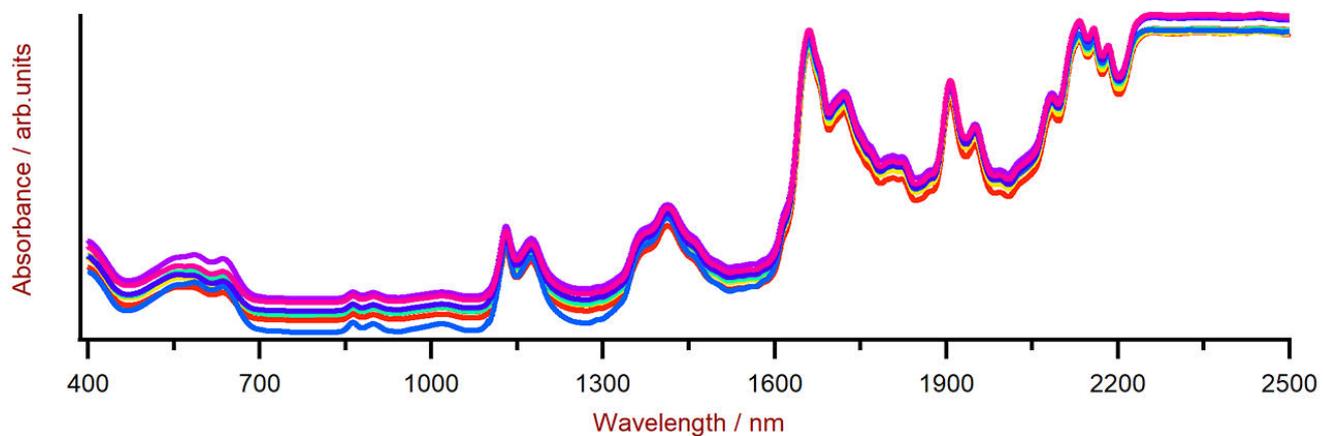


Figure 2. DS2500 DS2500 PET Vis-NIR

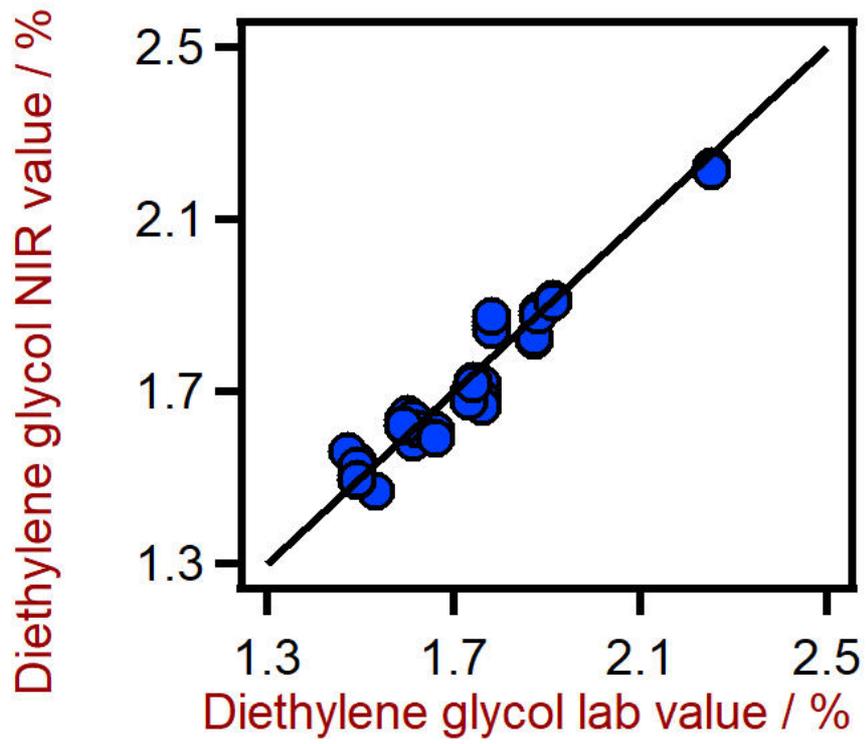


Figure 3. DS2500 PET HPLC-MS

2 DS2500 PET

R ²	0.931
	0.052%
	0.066%

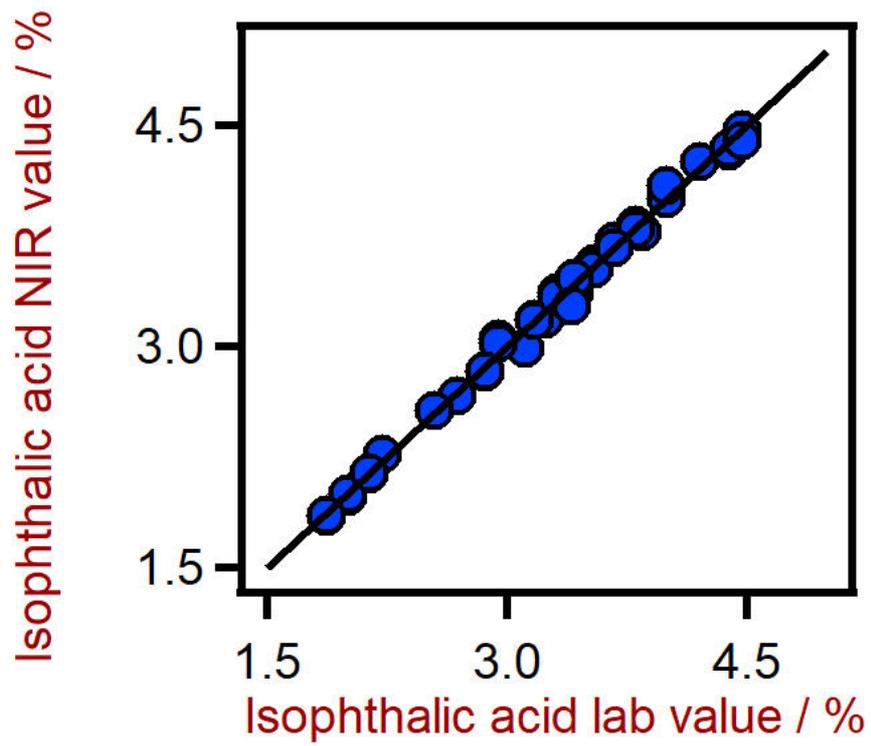


Figure 4. DS2500 PET HPLC

3 DS2500 PET

R^2	0.995
	0.059%
	0.085%

RESULTS

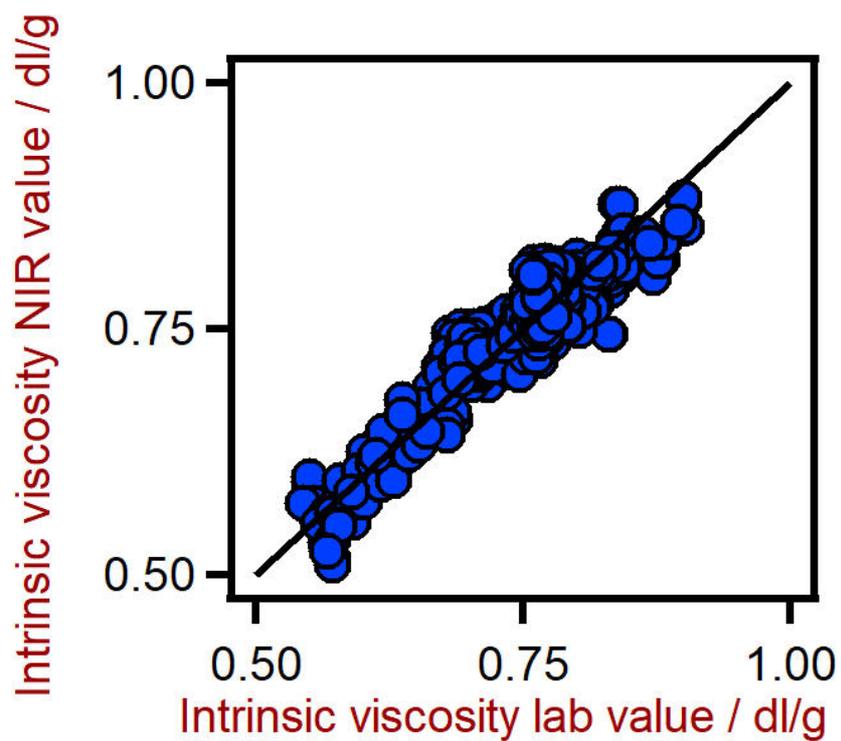


Figure 5. DS2500 PET

4 DS2500 PET

R^2	0.873
	0.0236
	0.0238

RESULTS

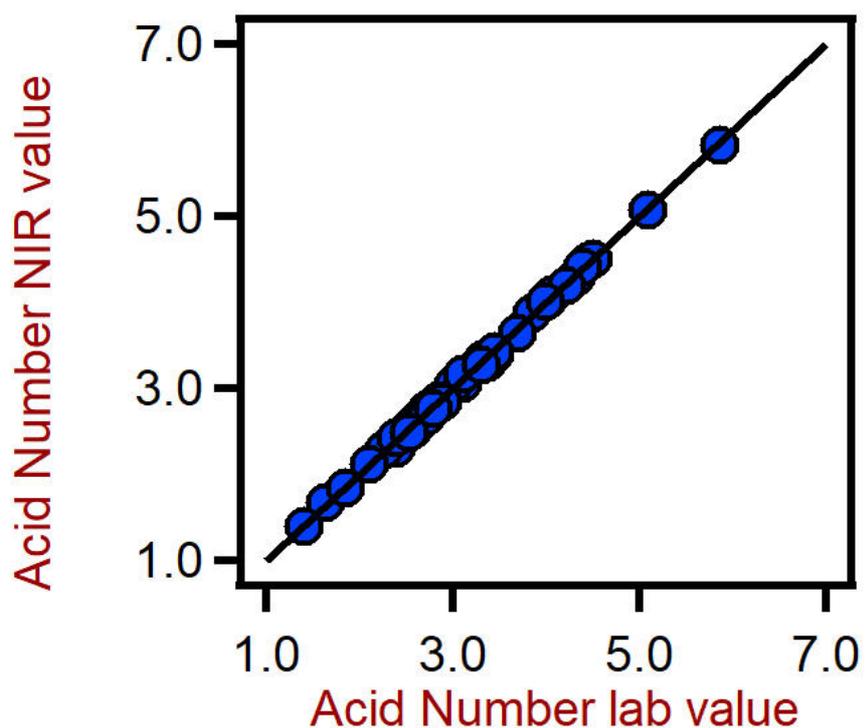


Figure 6. DS2500 PET

5 DS2500 PET

R ²	0.991
	0.093
	0.143

CONCLUSION

PET(6), .

+ HPLC-MS	~45 ()+ ~40 (HPLC)
+ HPLC	~45 ()+ ~40 (HPLC)
+	~90 ()+ ~1 ()
+	~90 ()+ ~10 ()

CONTACT

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DS2500 Solid Analyzer

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DS2500 , DS2500 Analyzer ,
DS2500 400 2500 nm ,DS2500 Analyzer ,
,,, MultiSample Cup , 9



DS2500

NIRS DS2500 Analyzer



Vision Air 2.0 Complete
Vision Air –

Vision Air Complete

Vision Air :

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- SQL ,

Vision Air Complete (66072208) :

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Vision Air Complete :

- 66072207 (Vision Air Network Complete)
- 66072209 (Vision Air Pharma Complete)
- 66072210 (Vision Air Pharma Network Complete)