## **AK96MI04** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## **AK96MI08** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

## **AK96MI13** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## CONE3-2AMI03 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## CONE3-2AMI05 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -0.50 -1.0 0.5 -0.25 0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

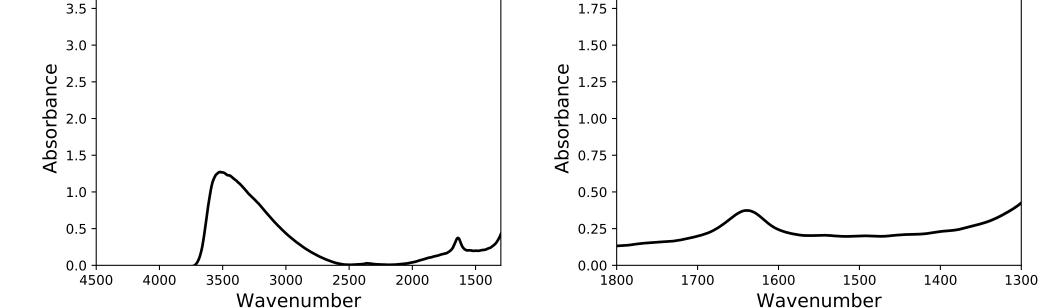
## CV09EMI05 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## CV09EMI06 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 0.5 0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300

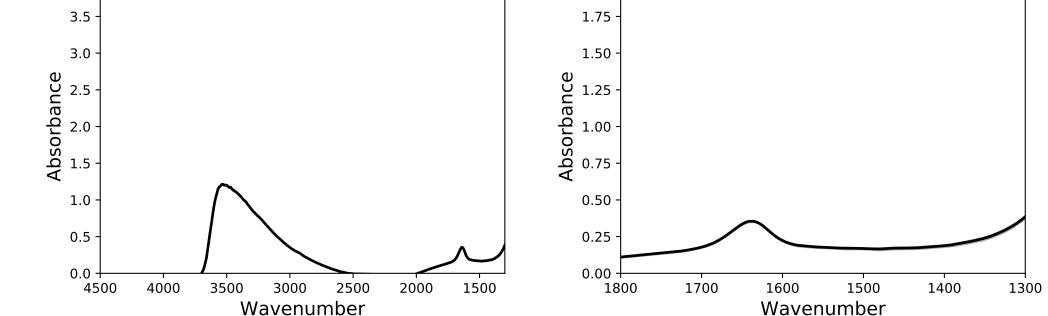
Wavenumber

Wavenumber

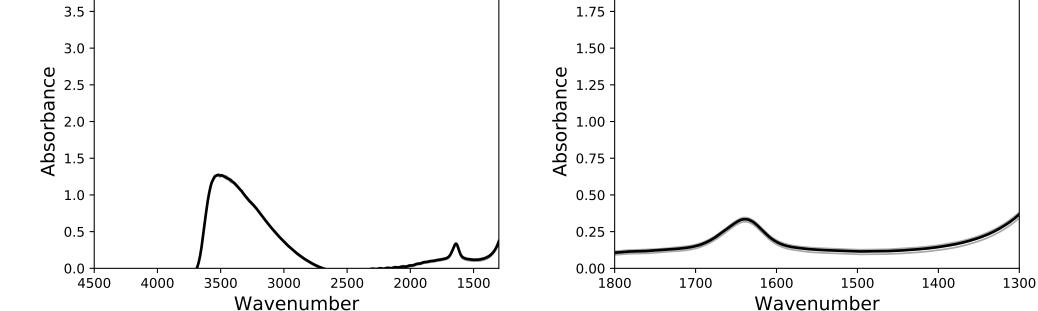
FI38MI01A 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -



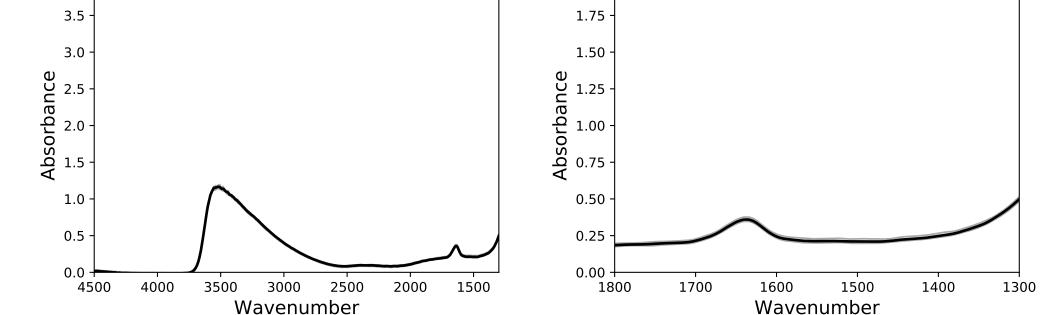
FI38MI01B 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -



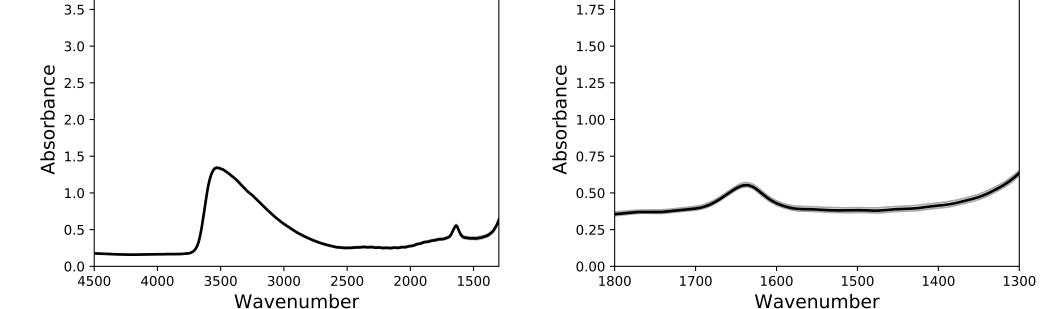
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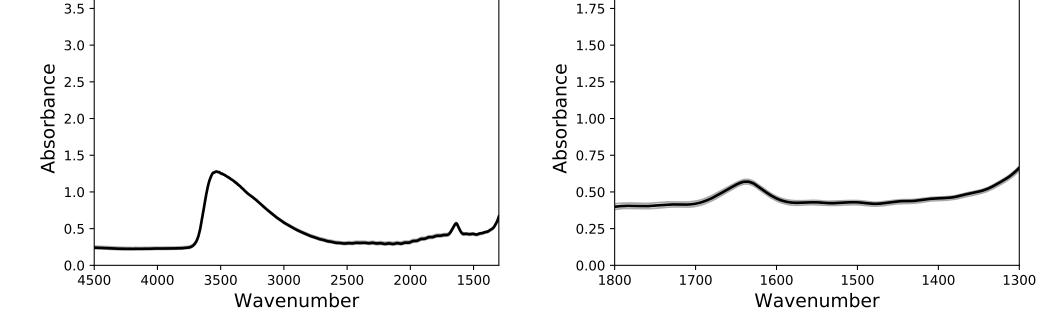
FI38MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -



FI38MI05A 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -



FI38MI05B 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -

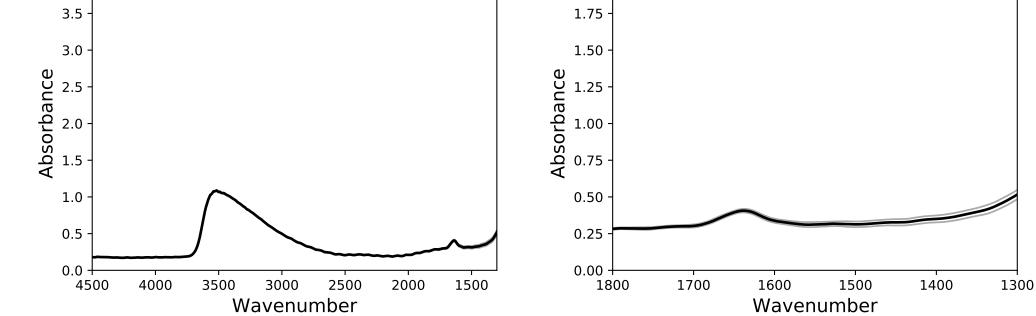


FI38MI06 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800

Wavenumber

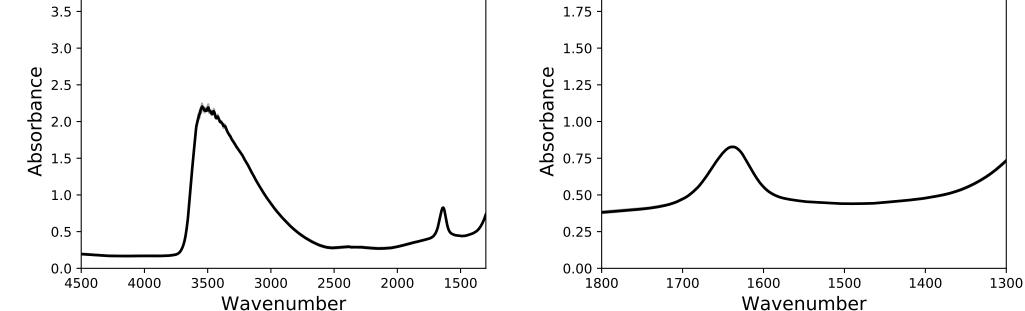
Wavenumber

FI38MI08 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -

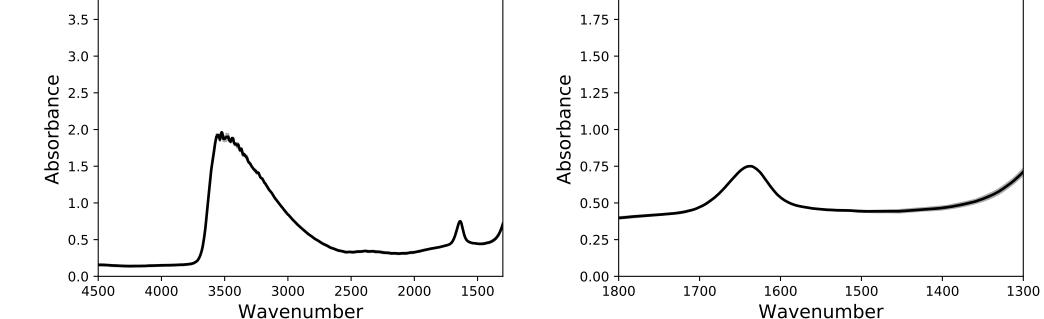


FI45MI01 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 0.0 4 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

FI45MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -



FI45MI04A 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -



FI45MI05 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -T.00 <sup>]</sup> 2.0 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

FI45MI06 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## JFL019BMI04 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

JFL19BMI08 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -

0.00 +

1800

1700

1600

1500

Wavenumber

1400

1300

0.0 +

4500

4000

3500

3000

Wavenumber

2500

2000

1500

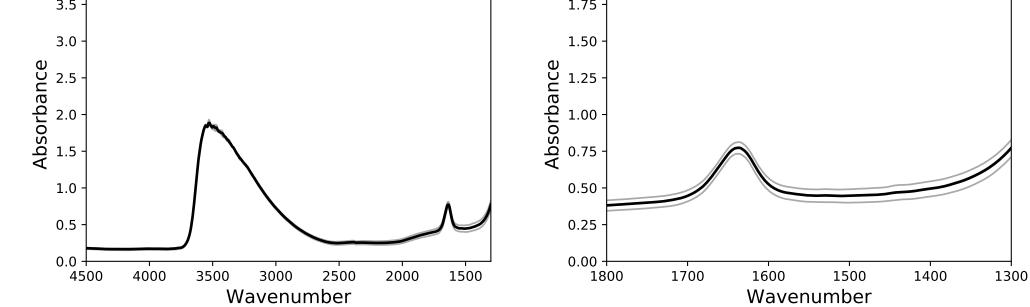
## JFL19BMI09 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## JFL19BMI11 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1800 1700 1600 1500 1400 1300 Wavenumber Wavenumber

## JFL19CMI01 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1800 1700 1600 1500 1400 1300 Wavenumber Wavenumber

## JFL30AMI05 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# JFL30AMI12 4.0 2.00 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -



## **OK14MI01** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -T.00 <sup>]</sup> 2.0 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## OK14MI06A 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## **OK14MI06B** 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

## OK14MI06C 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 -0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

## **OK14MI07** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## **OK14MI08** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

## **OK14MI09** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

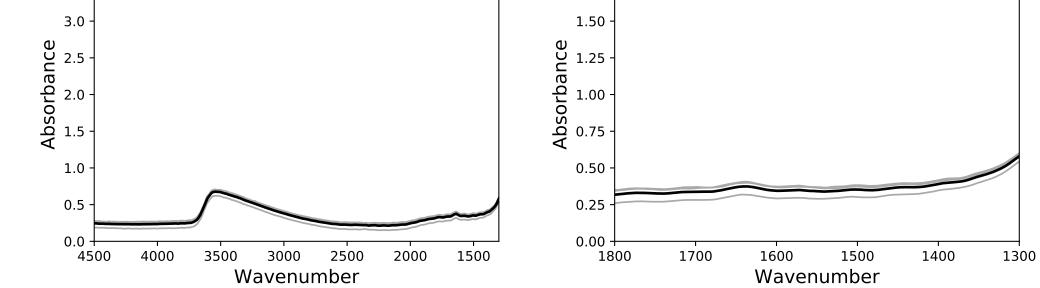
## **OK14MI10** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 -0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

## OK14MI12 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **OK17MI03** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# OK17MI05A 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# OK17MI05B 2.00 4.0 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -2.0 -1.00 -



# SH01MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# SH01MI05 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH01MI08** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH01MI09 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH01MI10** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH01MI11** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH01MI12A 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH01MI12B 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH01MI13** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH01MI15 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH01MI16 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH01MI17** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH01MI18** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH01MI19 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH01MI20 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -1.00 ┤ 2.0 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH01MI21 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1800 1700 1600 1500 1400 1300 Wavenumber Wavenumber

# **SH54MI03** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -1.00 ┤ 2.0 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

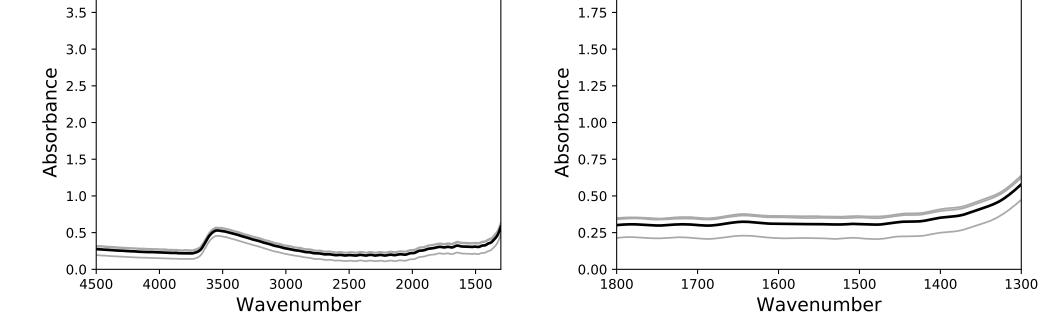
# **SH54MI11** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1800 1700 1600 1500 1400 1300 Wavenumber Wavenumber

# SH54MI12 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH55MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 ┤ 1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH58MI01 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH58MI11A 4.0 2.00 3.5 -1.75 -3.0 -1.50 -2.5 -1.25 -



# SH58MI13 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH58MI15 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 -0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH60MI01** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH60MI02** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800

Wavenumber

Wavenumber

# **SH60MI23** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH60MI24 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# SH60MI25 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH63MI03** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI04 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI05A 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# SH63MI05B 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800

Wavenumber

Wavenumber

# SH63MI10 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH63MI11** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 -0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI12 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH63MI13** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI14 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# SH63MI15 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI16 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH63MI17** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI19 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI22 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# SH63MI24 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI25 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -1.00 ┤ 2.0 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1800 1700 1600 1500 1400 1300 Wavenumber Wavenumber

# SH63MI27 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -1.00 ┤ 2.0 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI29 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH63MI31** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI34 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH63MI35** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **SH63MI36** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 0.5 0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# **SH63MI39** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# SH63MI40 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI43 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 4 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI47 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -1.00 ┤ 2.0 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI49 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 4 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI53 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -1.00 ┤ 2.0 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# SH63MI54 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# TAP18AMI03 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -L.00 -1.5 -0.75 -1.0 0.50 -0.5 0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# TAP18AMI04 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# TAP18AMI05 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -L.00 -1.5 -0.75 -1.0 0.50 -0.5 0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# Terry3MI01 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

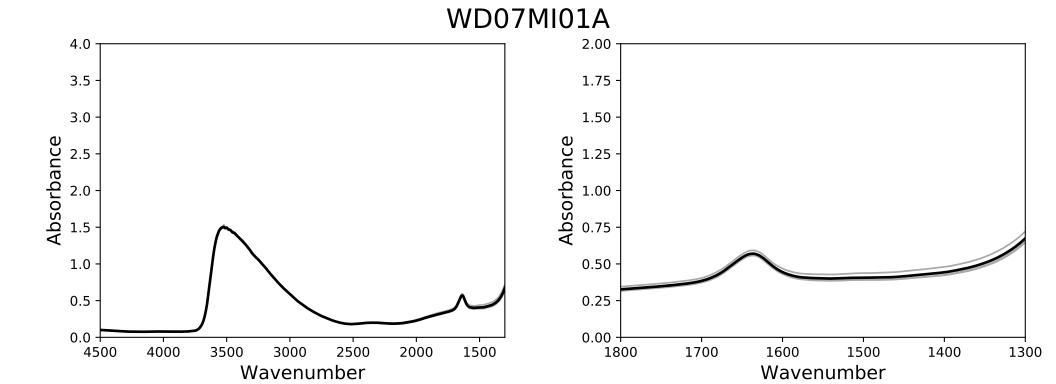
Terry3MI03 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# Terry3MI04A 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# Terry3MI05 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# VS73MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# VS74AMI01 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber



# WD07MI01B 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **WD07MI03** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# **WD10MI04** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.00 + 0.0 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **WD10MI05** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

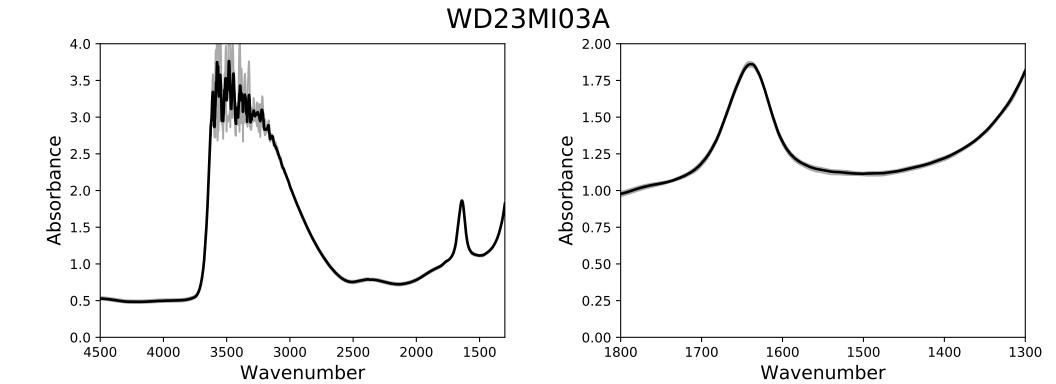
# WD12MI04A 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# **WD12MI04B** 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **WD12MI06** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **WD23MI01** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# WD23MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber



# **WD23MI04** 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **WD23MI06** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# WD32MI02 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

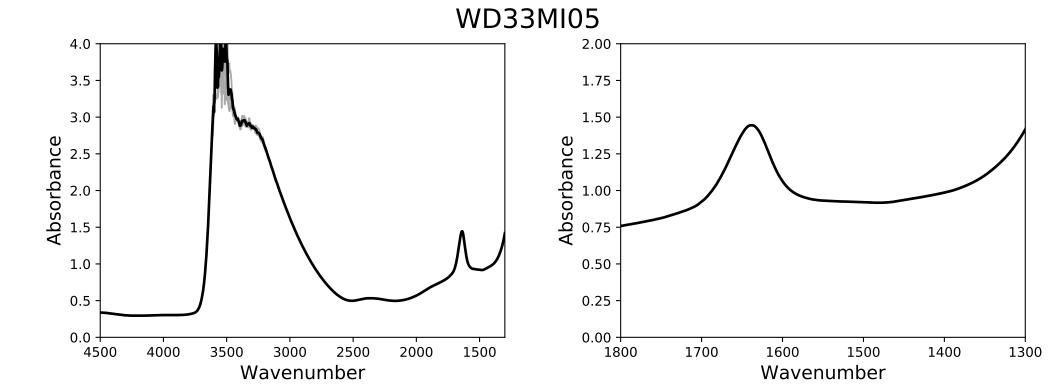
# **WD32MI03** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# WD32MI04 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# WD32MI05 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# WD33MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# WD33MI03 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 4 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber



# **WD33MI06** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# **WD35MI01** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# WD35MI02 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# WD35MI03 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# WD35MI04A 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# WD70MI01A 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# WD70MI01B 4.0 2.00 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# **WD70MI02** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 0.5 -0.25 -0.0 + 0.00 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber

# **WD70MI03** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# **WD70MI04** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 -0.5 -0.25 0.0 + 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1800 1300 Wavenumber Wavenumber

# **WD71AMI01** 2.00 4.0 3.5 -1.75 -3.0 -1.50 -Absorbance Absorbance 2.5 -1.25 -2.0 -1.00 -1.5 -0.75 -1.0 -0.50 0.5 -0.25 -0.0 4 0.00 + 4500 4000 3500 3000 2500 2000 1500 1700 1600 1500 1400 1300 1800 Wavenumber Wavenumber