**Measurement results for Laboratory exercises 2, Exercise 6 „Testing instrumentation amplifiers”**

You should select the measurement results for the specific measurement tasks according to your Neptun code as given in the following descriptions.

# Output voltage values of the amplifier

If the first letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**U1 ⇒ Ukioffset = 0 µV**

If the first letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**U2 ⇒ Ukioffset = -2 µV**

If the first letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**U3 ⇒ Ukioffset = 6 µV**

If the first letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**U4 ⇒ Ukioffset = 10 µV**

If the first letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

**U5 ⇒ Ukioffset = -11 µV**

# Output offset voltage values

If the second letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**U1 ⇒ U+kiOff = -40 µV** **U-kiOff = 35 µV**

If the second letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**U2 ⇒ U+kiOff =-39 µV** **U-kiOff = 34 µV**

If the second letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**U3 ⇒ U+kiOff = -33 µV** **U-kiOff = 42 µV**

If the second letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**U4 ⇒ U+kiOff = -28 µV** **U-kiOff = 46 µV**

If the second letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

**U5 ⇒ U+kiOff = -48 µV** **U-kiOff = 26 µV**

# Output offset voltage for the calculation of input offset voltages

If the third letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**U1 ⇒ UkiOffset =110 µV**

If the third letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**U2 ⇒ Ukioffset = -180 µV**

If the third letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**U3 ⇒ Ukioffset = 550 µV**

If the third letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**U4 ⇒ Ukioffset = 830 µV**

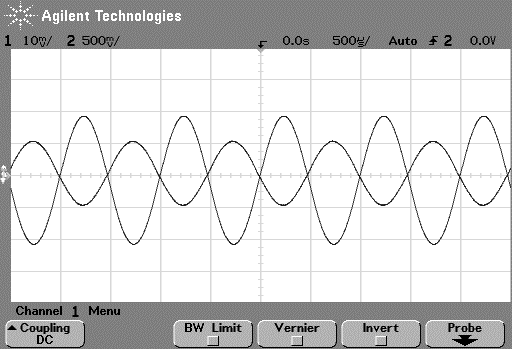
If the third letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

**U5 ⇒ Ukioffset = -670 µV**

# Measurement of the gain of the inverting amplifier

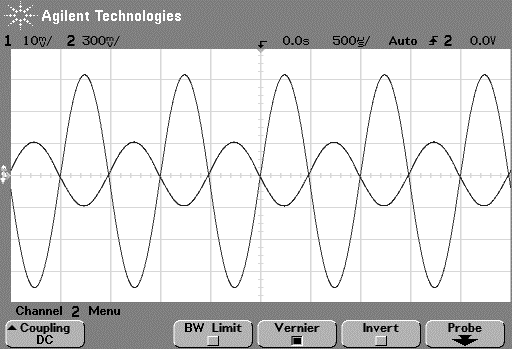
If the fourth letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**Signal 1:**

****

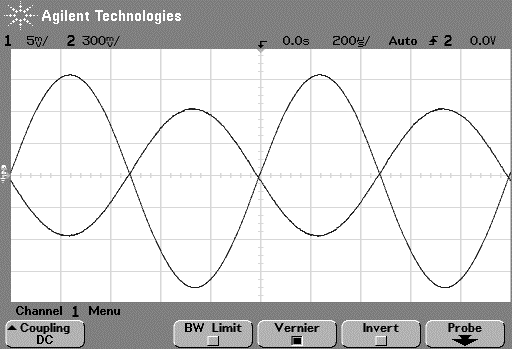
If the fourth letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**Signal 2:**



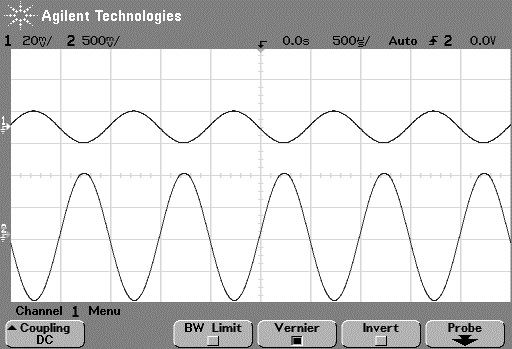
If the fourth letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**Signal 3:**

****

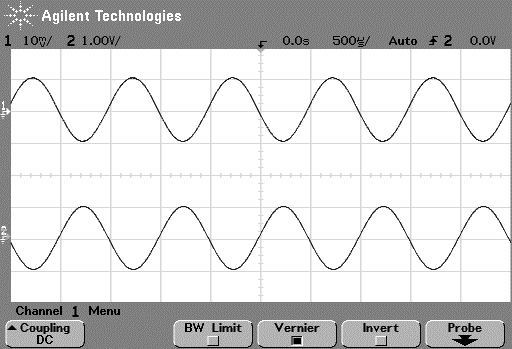
If the fourth letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**Signal 4:**

****

If the fourth letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

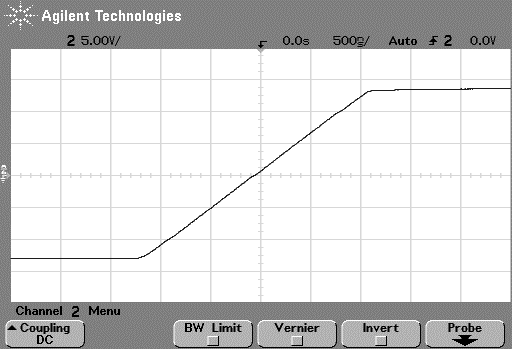
**Signal 5:**

****

# Results for measuring the slew-rate of the inverting amplifier

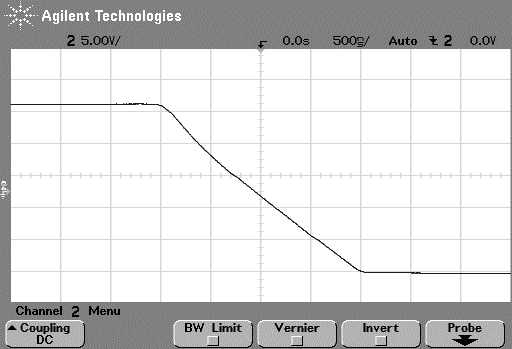
If the fifth letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**Signal 1:**

****

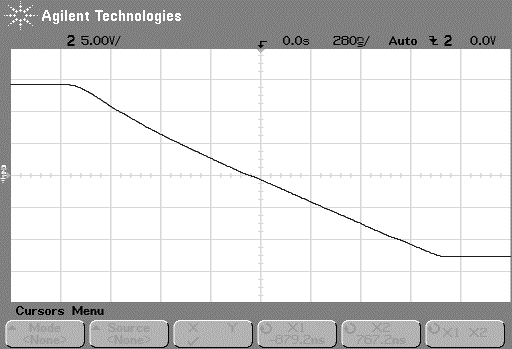
If the fifth letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**Signal 2:**

****

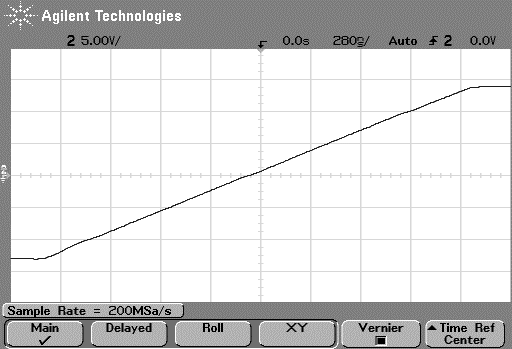
If the fifth letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**Signal 3:**

****

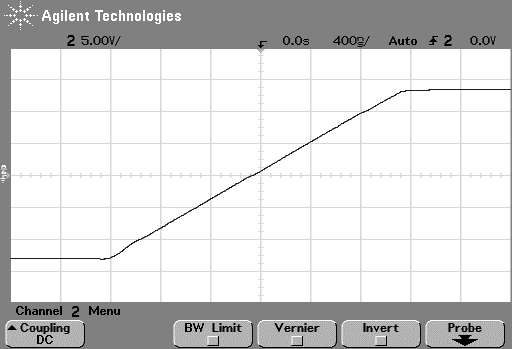
If the fifth letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**Signal 4:**

****

If the fifth letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

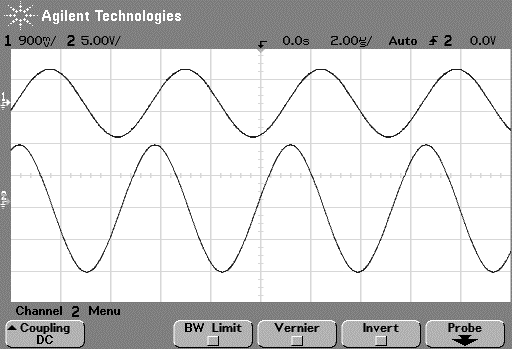
**Signal 5:**

****

# Output waveform for sine wave at frequency fkv

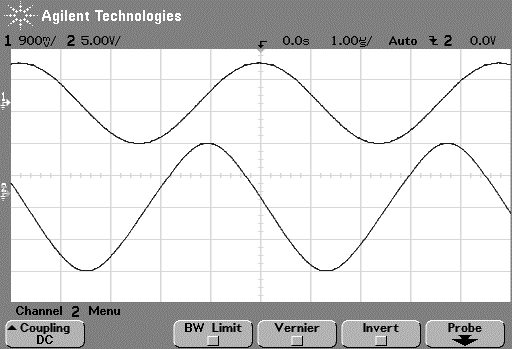
If the sixth letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**Signal 1:**



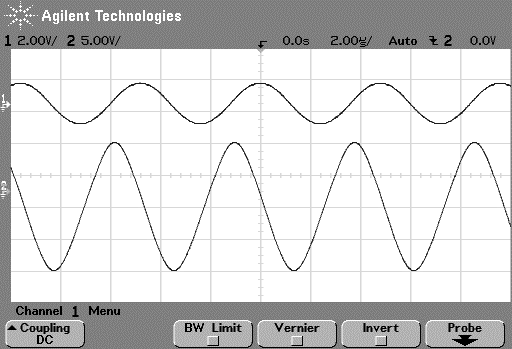
If the sixth letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**Signal 2:**



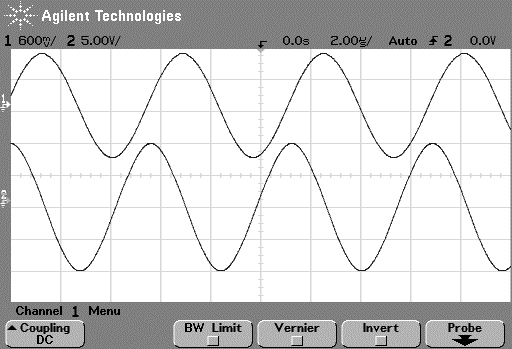
If the sixth letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**Signal 3:**



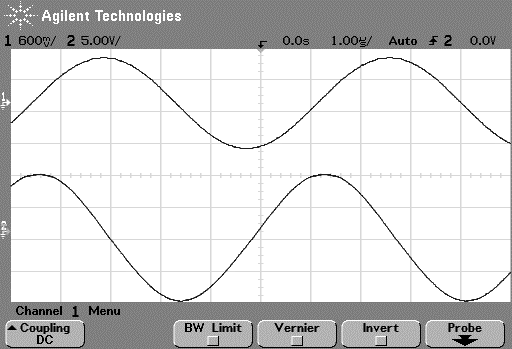
If the sixth letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**Signal 4:**



If the sixth letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

**Signal 5:**



# Measurement results for amplitude and phase characteristics of the inverting amplifier

If the first letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**Bode01\_Eredmeny.xlsx**

If the first letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**Bode02\_Eredmeny.xlsx**

If the first letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**Bode03\_Eredmeny.xlsx**

If the first letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**Bode04\_Eredmeny.xlsx**

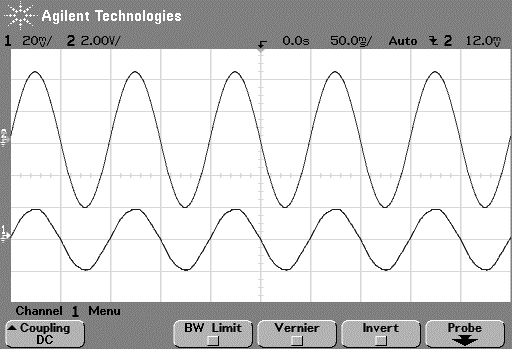
If the first letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

**Bode05\_Eredmeny.xlsx**

# Measurement results for the common mode gain measurement

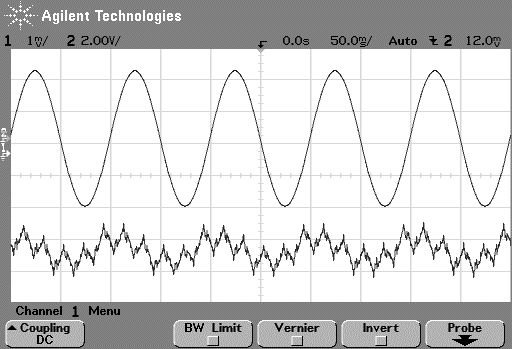
If the second letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**Signal 1:**



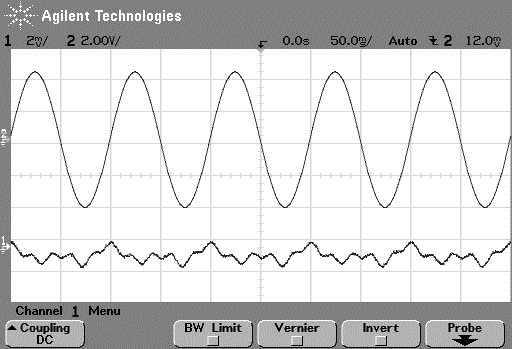
If the second letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**Signal 2:**



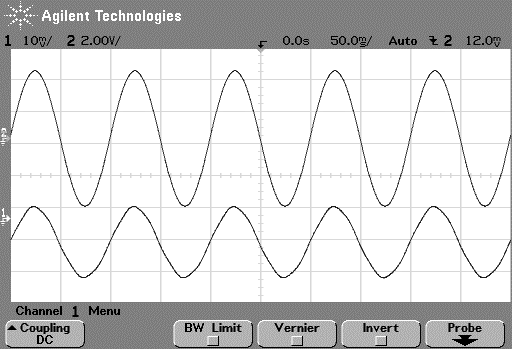
If the second letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**Signal 3:**



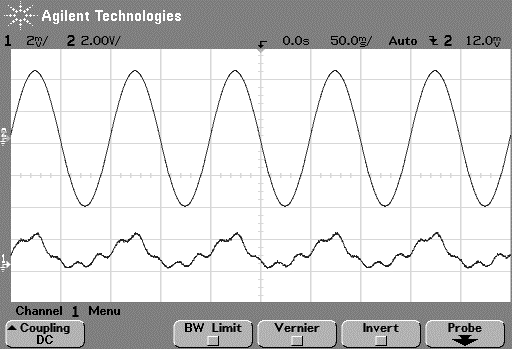
If the second letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**Signal 4:**



If the second letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

**Signal 5:**



# Measuring the common mode amplitude and phase characteristics

If the third letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**Bode01\_Eredmeny.xlsx**

If the third letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**Bode02\_Eredmeny.xlsx**

If the third letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**Bode03\_Eredmeny.xlsx**

If the third letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**Bode04\_Eredmeny.xlsx**

If the third letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

**Bode05\_Eredmeny.xlsx**

# Measurement results for noninverting amplifier’s amplitude and phase characteristics

If the fourth letter of your Neptun code is: '0', '5', 'A', 'F', 'K', 'P', 'U', 'Z'

**Bode01\_Eredmeny.xlsx**

If the fourth letter of your Neptun code is: '1', '6', 'B', 'G', 'L', 'Q', 'V'

**Bode02\_Eredmeny.xlsx**

If the fourth letter of your Neptun code is: '2', '7', 'C', 'H', 'M', 'R', 'W'

**Bode03\_Eredmeny.xlsx**

If the fourth letter of your Neptun code is: '3', '8', 'D', 'I', 'N', 'S', 'X'

**Bode04\_Eredmeny.xlsx**

If the fourth letter of your Neptun code is: '4', '9', 'E', 'J', 'O', 'T', 'Y'

**Bode05\_Eredmeny.xlsx**