**1D-NMR (400 MHz)**

**Day measurements\*:** **Night measurements: Serial measurements:**

🞎 1H 🞎 1H, 13C (*1024 scans*) from 1 to x = \_\_\_

🞎 13C (*256 scans*) 🞎 1H, 13C, DEPT *(label NMR-tubes from 1 to x)*

🞎 11B{1H} 🞎 11B no dec.🞎 29Si{1H} DEPT (draw formula!)

🞎 31P{1H} 🞎 31P no dec.

🞎19F{1H} 🞎 19F no dec.

 **Please note:**

 **CLEAN the NMR tube at the outside!**

 length : 17.8 – 21.5 cm

 filling height : 4.5 to 5 cm

 reaction number : only digits, no letters!

**\* Hint:** *1H spectra will be measured with highest priority!*

Sample name : **JOE** \_\_ \_\_ \_\_ \_\_ \_\_ ( - x )

 *(your acronym) (reaction number) (number of serial)*

Amount : \_\_\_\_\_\_\_\_ mg

Solvent : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 *(use marker if solvent is not CDCl3)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date: | Name: | Email: | 🕿 | Group: |
|  | **my name** | **my.email** @wwu.de | **999** | **my group** |

**1D-NMR (400 MHz)**

**Day measurements\*:** **Night measurements: Serial measurements:**

🞎 1H 🞎 1H, 13C (*1024 scans*) from 1 to x = \_\_\_

🞎 13C (*256 scans*) 🞎 1H, 13C, DEPT *(label NMR-tubes from 1 to x)*

🞎 11B{1H} 🞎 11B no dec.🞎 29Si{1H} DEPT (draw formula!)

🞎 31P{1H} 🞎 31P no dec.

🞎19F{1H} 🞎 19F no dec.

 **Please note:**

 **CLEAN the NMR tube at the outside!**

 length : 17.8 – 21.5 cm

 filling height : 4.5 to 5 cm

 reaction number : only digits, no letters!

**\* Hint:** *1H spectra will be measured with highest priority!*

Sample name : **JOE** \_\_ \_\_ \_\_ \_\_ \_\_ ( - x )

 *(your acronym) (reaction number) (number of serial)*

Amount : \_\_\_\_\_\_\_\_ mg

Solvent : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 *(use marker if solvent is not CDCl3)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date: | Name: | Email: | 🕿 | Group: |
|  | **my name** | **my.email** @wwu.de | **999** | **my group** |

**1D- & 2D-NMR, VT and special experiments (highfield)**

 - only after consultation -

1D: 2D: VT:

🞎 1H 🞎 gCOSY from : \_\_\_\_\_\_°C

🞎 13C 🞎 13C{1H,19F} 🞎 gHSQC δ(13C)\*: \_\_\_\_\_\_ - \_\_\_\_\_\_ ppm to : \_\_\_\_\_\_°C

🞎 DEPT 🞎 gHMBC δ(13C)\*: \_\_\_\_\_\_ - \_\_\_\_\_\_ ppm step : \_\_\_\_\_\_°C

🞎 19F 🞎 19F19F-gCOSY 🞎 1H{19F} δ(19F)\*: \_\_\_\_\_\_\_\_\_\_\_\_ ppm

🞎 31P{1H} / 31P 🞎 29Si-DEPT 🞎 \_\_\_\_\_\_\_\_ *\* Info is necessary to set up experiments!*

Formula:

🞎 11B{1H} / 11B 🞎 29Si-gHMQC 🞎 \_\_\_\_\_\_\_\_

🞎 1D-NOESY 🞎 1D-TOCSY 🞎 \_\_\_\_\_\_\_\_

Sample name : **JOE** \_\_ \_\_ \_\_ \_\_ \_\_

*(8 digits maximum) (your acronym) (reaction number)*

Amount : \_\_\_\_\_\_\_\_ mg

Solvent : \_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date: | Name: | Email: | 🕿 | Group: |
|  | **my name** | **my.email** @wwu.de | **999** | **my group** |

**1D- & 2D-NMR, VT and special experiments (highfield)**

 - only after consultation -

1D: 2D: VT:

🞎 1H 🞎 gCOSY from : \_\_\_\_\_\_°C

🞎 13C 🞎 13C{1H,19F} 🞎 gHSQC δ(13C)\*: \_\_\_\_\_\_ - \_\_\_\_\_\_ ppm to : \_\_\_\_\_\_°C

🞎 DEPT 🞎 gHMBC δ(13C)\*: \_\_\_\_\_\_ - \_\_\_\_\_\_ ppm step : \_\_\_\_\_\_°C

🞎 19F 🞎 19F19F-gCOSY 🞎 1H{19F} δ(19F)\*: \_\_\_\_\_\_\_\_\_\_\_\_ ppm

🞎 31P{1H} / 31P 🞎 29Si-DEPT 🞎 \_\_\_\_\_\_\_\_ *\* Info is necessary to set up experiments!*

Formula:

🞎 11B{1H} / 11B 🞎 29Si-gHMQC 🞎 \_\_\_\_\_\_\_\_

🞎 1D-NOESY 🞎 1D-TOCSY 🞎 \_\_\_\_\_\_\_\_

Sample name : **JOE** \_\_ \_\_ \_\_ \_\_ \_\_

*(8 digits maximum) (your acronym) (reaction number)*

Amount : \_\_\_\_\_\_\_\_ mg

Solvent : \_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date: | Name: | Email: | 🕿 | Group: |
|  | **my name** | **my.email** @wwu.de | **999** | **my group** |

Name:  Tel.: Group:

Solvent: Sample name: **\_\_ \_\_ \_\_ \_\_ \_\_ - \_\_**

✂

Name:  Tel.: Group:

Solvent: Sample name: **\_\_ \_\_ \_\_ \_\_ \_\_ - \_\_**

✂

Name:  Tel.: Group:

Solvent: Sample name: **\_\_ \_\_ \_\_ \_\_ \_\_ - \_\_**

✂

Name:  Tel.: Group:

Solvent: Sample name: **\_\_ \_\_ \_\_ \_\_ \_\_ - \_\_**

✂

Name:  Tel.: Group:

Solvent: Sample name: **\_\_ \_\_ \_\_ \_\_ \_\_ - \_\_**

✂

Name:  Tel.: Group:

Solvent: Sample name: **\_\_ \_\_ \_\_ \_\_ \_\_ - \_\_**

✂

Name:  Tel.: Group:

Solvent: Sample name: **\_\_ \_\_ \_\_ \_\_ \_\_ - \_\_**

✂

Name:  Tel.: Group:

Solvent: Sample name: **\_\_ \_\_ \_\_ \_\_ \_\_ - \_\_**

✂