

NMR Instrument Specifications

Varian ^{Unity}Inova 600 Liquid State NMR Spectrometer

Software: VnmrJ 2.1B

Three channels and Z gradients

Probes: 5 mm ^1H { ^{15}N - ^{31}P } Indirect Detection PFG
5 mm ^1H { ^{15}N - ^{31}P } Dual broadband
5 mm $^1\text{H}/^{13}\text{C}/^{15}\text{N}$ Triple Resonance PFG
10 mm ^1H { ^{13}C - ^{15}N } Dual broadband
10 mm ^1H { ^{15}N - ^{31}P } Dual broadband
4 mm gHX { ^{15}N - ^{31}P } Nano

Varian VNMRS 500 Solid State NMR Spectrometer

Software: VnmrJ 2.2D

Two channels

Probes: 3.2 mm HX MAS { ^{15}N - ^{31}P } broadband
4.0 mm HX MAS { ^{15}N - ^{31}P } broadband
6.0 mm HX MAS { ^{15}N - ^{31}P } broadband

Varian ^{Unity}Inova 400 spectrometer

Software: VnmrJ 2.1B

Two channels and Z gradients

Probes: 10 mm ^1H { ^{15}N - ^{31}P } Dual broadband
5 mm $^1\text{H}/^{19}\text{F}$ { ^{15}N - ^{31}P } Dual broadband PFG

Varian VNMRS 300 Liquid State NMR Spectrometer

Software: VnmrJ 2.2D

Two channels

Probes: 5 mm $^1\text{H}/^{19}\text{F}$ { ^{15}N - ^{31}P } Dual broadband
5 mm 4 nucleus ($^1\text{H}/^{13}\text{C}/^{19}\text{F}/^{31}\text{P}$)

CD Spectrometer Specifications

The Chirascan-plus combined Circular Dichroism/Fluorescence Spectropolarimeter with is a state-of-the art new generation chiroptical spectrometer with the following capabilities:

- Circular dichroism (CD)
- Fluorescence /Total Fluorescence
- UV/Visible absorbance
- Fluorescence detected CD
- Stopped Flow unit for real-time UV/Visible absorbance, CD and fluorescence measurements of mixtures.