

# DRAFT



Bruker BioSpin

**PH MAS DVT 750W4 BL4 X/Y/H**

**750.3 MHz**

**Probe ID: H8780\_0007**

**Inspection Lot: 2023-07-13**

**NMR TEST SERVICE**

**Jul 13, 2023**

NMR TEST SERVICE \*\*\* System: AV NEO (750.30 MHz) \*\*\* TopSpin 4.1.3  
Probe: H8780\_0007 PH MAS DVT 750W4 BL4 X/Y/H  
Sample: Potassium Bromide (KBr, 80 ul) (Z151220)  
Magic Angle setting, MAS (NPT\_79Br\_MAS\_magicAngle, spin rate 5000 Hz)

Line width main [achieved]: [142] <n/a>

# DRAFT



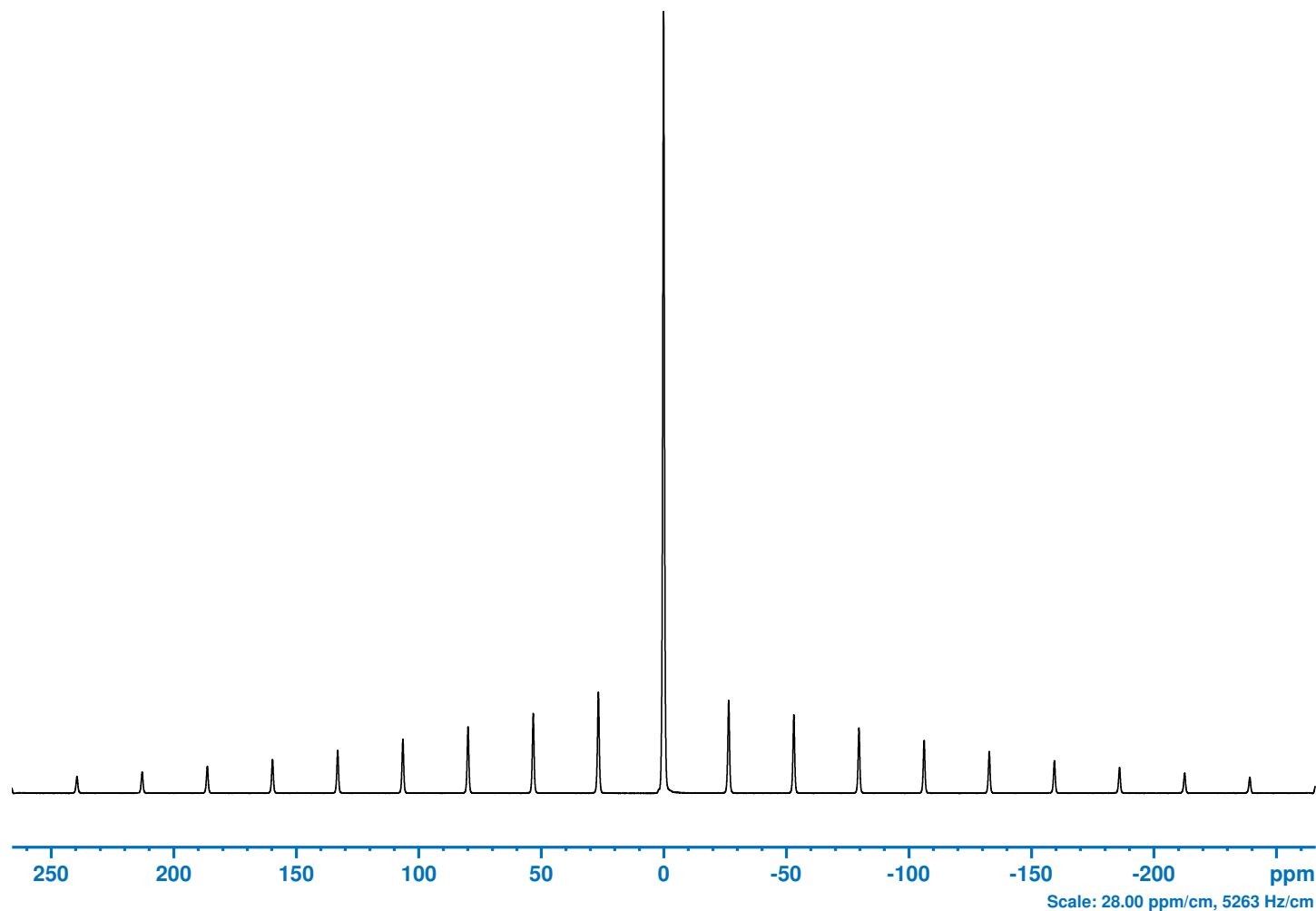
Bruker BioSpin

## NPT\_79Br\_MAS\_magicAngle

Current Data Parameters  
NAME NPT\_79Br\_MAS\_magicAngle  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20230713  
Time 16.26 h  
INSTRUM Avance NEO  
PROBHD H8780\_0007 (PH)  
PULPROG onepulse  
TD 8192  
SOLVENT H2O+D2O  
NS 16  
DS 0  
SWH 100000.000 Hz  
FIDRES 24.414062 Hz  
AQ 0.0409600 sec  
RG 101  
DW 5.000 usec  
DE 6.50 usec  
TE 294.4 K  
D1 0.25000000 sec  
SFO1 187.9904818 MHz  
NUC1 79Br  
P1 3.84 usec  
PLW1 189.75000000 W

F2 - Processing parameters  
SI 131072  
SF 187.9904818 MHz  
WDW no  
SSB 0  
LB 0 Hz  
GB 0  
PC 0.20



SHIM SEQUENCE  
skip shimming

NMR TEST SERVICE \*\*\* System: AV NEO (750.30 MHz) \*\*\* TopSpin 4.1.3  
Probe: H8780\_0007 PH MAS DVT 750W4 BL4 X/Y/H  
Sample: Potassium Bromide (KBr, 80 ul) (Z151220)  
Optimization of 79Br frequency (NPT\_79Br\_MAS\_fieldsetting, spin rate 5000 Hz)  
FIELD was set to 1989.7 for 79Br chemical shift of 59.700 ppm. One field unit corresponds to 0.0064 ppm.

# DRAFT



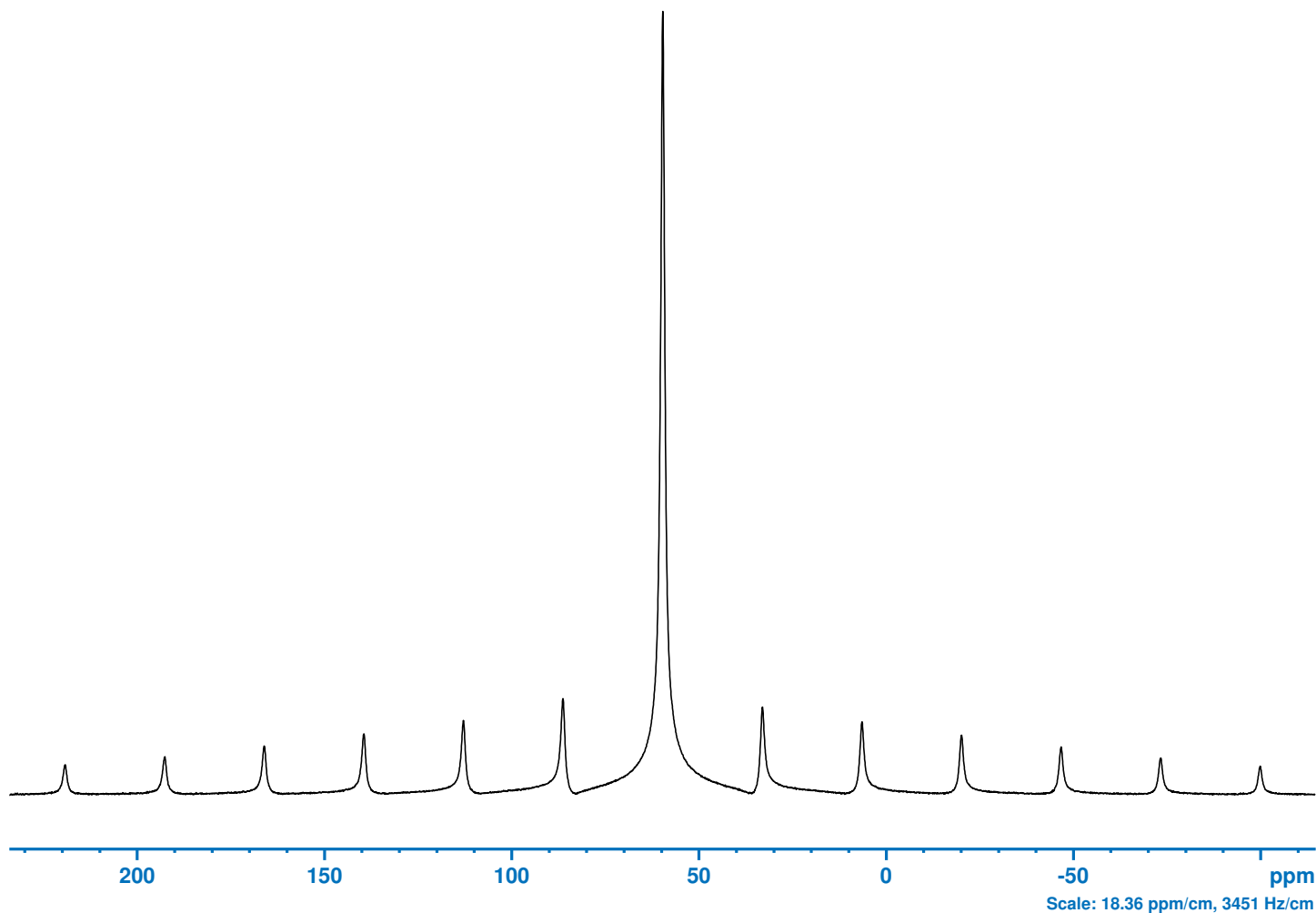
Bruker BioSpin

## NPT\_79Br\_MAS\_fieldsetting

Current Data Parameters  
NAME NPT\_79Br\_MAS\_fieldsetting  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20230713  
Time 16.26 h  
INSTRUM Avance NEO  
PROBHD H8780\_0007 (PH)  
PULPROG onepulse  
TD 4096  
SOLVENT H2O+D2O  
NS 1  
DS 0  
SWH 81967.211 Hz  
FIDRES 40.023052 Hz  
AQ 0.0249856 sec  
RG 101  
DW 6.100 usec  
DE 6.50 usec  
TE 294.4 K  
D1 0.50000000 sec  
SFO1 187.9912344 MHz  
NUC1 79Br  
P1 3.84 usec  
PLW1 189.7500000 W

F2 - Processing parameters  
SI 8192  
SF 187.9800120 MHz  
WDW EM  
SSB 0  
LB 0 Hz  
GB 0  
PC 0.50



SHIM SEQUENCE  
skip shimming

NMR TEST SERVICE \*\*\* System: AV NEO (750.30 MHz) \*\*\* TopSpin 4.1.3  
Probe: H8780\_0007 PH MAS DVT 750W4 BL4 X/Y/H  
Sample: Potassium Bromide (KBr, 80 ul) (Z151220)  
P90 79Br pulse calibration, MAS (NPT\_79Br\_MAS\_p90det\_79br, spin rate 5000 Hz)  
ATTENTION: Updated PROSOL Tables with [3.84 us @ 189.7 W].

P90 MAS 79Br pulse [achieved]: @ 174.0 W [4.01 us] <n/a>

DRAFT



Bruker BioSpin

NPT\_79Br\_MAS\_p90det\_79br

Current Data Parameters  
NAME NPT\_79Br\_MAS\_p90det\_79br  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20230713  
Time 16.22 h  
INSTRUM Avance NEO  
PROBHD H8780\_0007 (PH)  
PULPROG onepulse  
TD 2048  
SOLVENT H2O+D2O  
NS 1  
DS 0  
SWH 100000.000 Hz  
FIDRES 97.656250 Hz  
AQ 0.0102400 sec  
RG 101  
DW 5.000 usec  
DE 6.50 usec  
TE 294.5 K  
D1 0.25000000 sec  
SFO1 187.9912344 MHz  
NUC1 79Br  
P1 11.52 usec  
PLW1 174.0000000 W

F2 - Processing parameters  
SI 4096  
SF 187.9800119 MHz  
WDW no  
SSB 0  
LB 0 Hz  
GB 0  
PC 0.20

\*\*\*\*\* P90 Pulse Determination History \*\*\*\*\*  
PLW90 P90 P90[det] Deviation  
-----  
174.0 W 3.84 us  
174.0 W 3.84 us 4.01 us 4.4%

SHIM SEQUENCE

skip shimming

