

Operating Instructions for the Probe PH MASDVT850W6 BL1.3 X/Y/F-H (H13863/0003)

1. Table of available X/Y combinations

X/Y-combination	X	Y	Modification mode
	f/MHz	f/MHz	
$^{13}\text{C}/^{15}\text{N}-^2\text{H}$	213.7	86.0 – 130.5	$\lambda/4$ -mode (screw in)
$^{13}\text{C}/^{14}\text{N}$	213.7	61.4	Not possible!
$^{23}\text{Na}/^{15}\text{N}-^2\text{H}$	224.8	86.0 – 130.5	$\lambda/4$ -mode (screw in)
$^{23}\text{Na}/^{29}\text{Si}$	224.8	168.9	$\lambda/2$ -mode (screw out)
$^{23}\text{Na}/^{14}\text{N}$	224.8	61.4	with 220pF shunt and $\lambda/4$ -mode (screw in)
$^{27}\text{Al}/^{15}\text{N}-^{29}\text{Si}$	221.5	86.0 – 168.9	the same modifications as ^{23}Na only with 180pF for ^{14}N
$^{29}\text{Si}/^{15}\text{N}-^2\text{H}$	168.9	86.0 – 130.5	$\lambda/4$ -mode (screw in)
$^{11}\text{B}/^{17}\text{O}-^{29}\text{Si}$	272.7	115.2 – 168.9	$\lambda/2$ -mode (screw out)

Note:

^1H or ^{19}F experiments in $\lambda/4$ -mode use the corresponding arrows, labeled at the λ -tube, see Figure 1 and 2.

In all ^{14}N – experiments on the Y – channel it is necessary to install a shunt capacitor as shown in Figure 3, 4 and 5 and in addition, set the short circuit screw to the $\lambda/4$ mode, see also Figure 1 and 2.



Figure 1 $\lambda/4$ -mode for ^1H

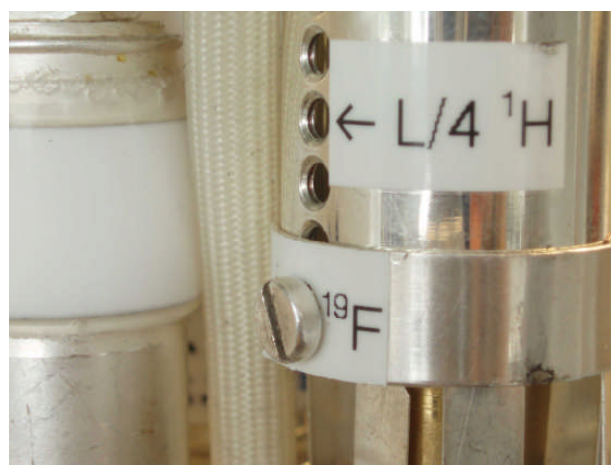


Figure 2 $\lambda/4$ -mode for ^{19}F



Figure 3 complete view



Figure 4 fixing beneath the clamb



Figure 5 fixing at the cube