

5. Probe Tuning Table

Table 3: Probehead Tuning Table

X nucleus	Insert 1	Insert 2	Insert 3
¹¹ B	-	S	0R5
¹²⁵ Te ¹⁴¹ Pr ⁷¹ Ga	E	S	0R5
⁶⁵ Cu ¹²⁹ Xe ⁸¹ Br	1R5	S	1R0
⁶³ Cu ²³ Na ⁵¹ V ¹²³ Te ²⁷ Al	E	S	1R0
¹³ C ⁷⁹ Br ¹⁵¹ Eu ⁵⁵ Mn ⁹³ Nb ²⁰⁹ Po ⁴⁵ Sc	2C	-	1R0
¹⁵⁹ Tb ²³¹ Pa ⁶⁹ Ga ¹²¹ Sb ⁵⁹ Co ¹⁸⁷ Re	0R5	-	2R0
¹⁸⁵ Re ⁹⁹ Tc	0R5	-	5R1

¹¹³ Cd ¹¹⁵ In ¹¹³ In	1R2	-	1R5
¹⁹⁵ Pt ¹¹¹ Cd ¹⁶⁵ Ho ²⁰⁷ Pb ¹²⁷ I	1R5	-	3R0
²⁹ Si ⁷⁷ Se	2R4	-	3R0
¹⁹⁹ Hg ¹⁷¹ Yb	3R0	-	4R3
⁷⁵ As ²⁰⁹ Bi ² H	5R1	-	4R3
⁶ Li ¹³⁹ La ⁹ Be ¹⁷ O	100	-	3R0
¹³⁸ La ¹³³ Cs ¹²³ Sb	100	-	220
¹⁸¹ Ta ¹⁷⁵ Lu ¹³⁷ Ba ¹⁵³ Eu	220	-	4R3
¹⁰ B ¹⁵ N	220	5R1 7R5	4R3 5R1

2C = Two small Chip Capacitors
 E = Empty Insert
 - = No Insert
 S = Short Circuit

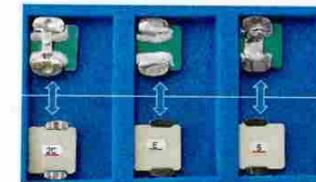


Figure: 9

In some situations, impedance mismatch between filters and cables can lead to a spurious resonance appearing close to the ¹H resonance. This issue can be resolved by extending the length of the cable connecting the X channel of the probe to the preamplifier or extending the length of the cable connecting the ¹H channel of the probe to the preamplifier, using the connectors that are provided with the probe.



Figure: 10