

Solution state research NMR instruments in the Yusuf Hamied Department Of Chemistry - 2021/22

	Open-access spectrometers					User Operated spectrometers			Service Operated	
Bruker Console	AVIII 400	AVIII 400	AVIII 500	Neo 400	AVII+ 700*	AVIII 500	Avance 500	AVII+ 700*	AVIII 500	AVIII 400
Probe Type	BBO Smartprobe	BBO	BBO SmartProbe	Prodigy Cryoprobe	Dual 13C/1H RT Probe	BBO Smartprobe	TCI Cryoprobe	TBO Cryoprobe	Dual 13C/1H Cryoprobe	QNP Cryoprobe
Location	B18	B12	B13a	B25	B14	B19	B19	B14	B28	B28
System Name	Laphroaig	Lagavulin	Glenfairn	Tobermory	Arran	Glengrant	Glenlivet	Arran	Aberlour	Cragganmore
Cryoprobe	No	No	No	Nitrogen	No	No	Helium	Helium	Helium	Helium
1H (inc. 2D)	✓	✓	✓✓	✓✓	✓✓	✓	✓✓✓	✓✓✓	✓✓	✓✓
13C	✓	✓	✓✓	✓✓	✓✓	✓	✓✓	✓✓	✓✓✓	✓✓
19F	✓	✓	✓✓	✓✓	✗	✓	✗	✗	✗	✗
31P	✓	✓	✓✓	✓✓	✗	✓	✗	✗	✗	✗
Other Nuclei	✓	✓	✓✓	✓✓	✗	✓✓	✗	✗	✗	✗
VT Work	✗	✗	✗	✗	✗	✓✓✓	✗	✗	✗	✗
Biological NMR	✗	✗	✗	✗	✗	✓✓	✓✓✓	✓✓✓	✗	✗
Solid samples	✗	✗	✗	✗	✗	✗	✗	✓✓✓	✗	✗

The ticks are only an approximation of relative s/n. May scale exponentially!

Tobermory requires additional SampleJet training and special tubes/caps

* Arran usually operates in open-access mode but is occasionally used with solid-state probes or the helium cryoprobe