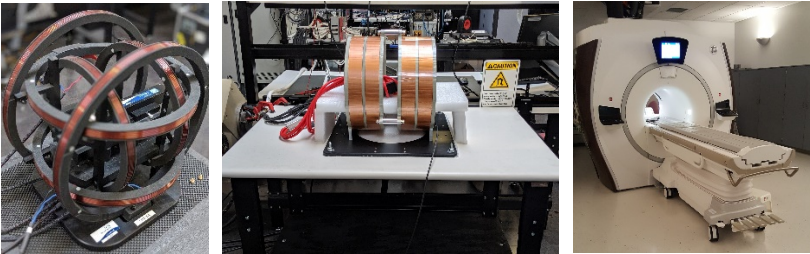
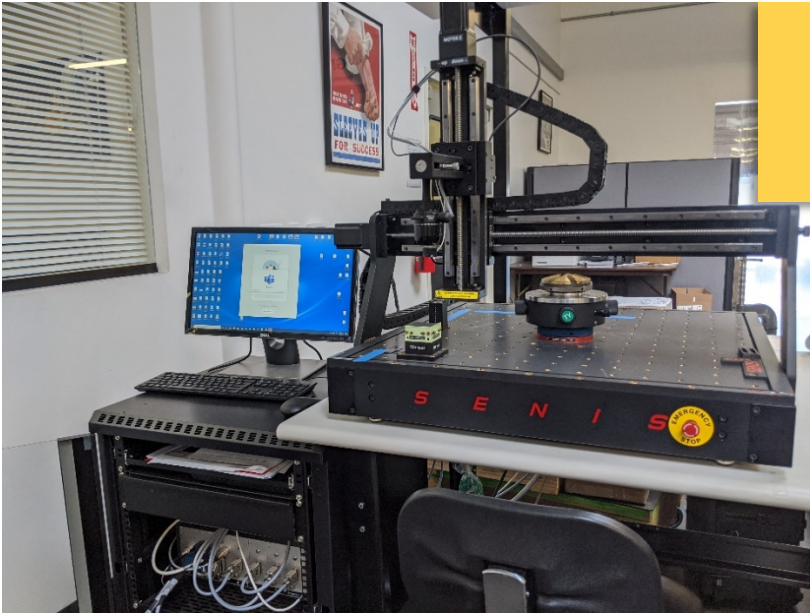


# GMW Magnetic Field Calibration Lab



## OVERVIEW

Your ability to deliver accurate and reliable measurements depends on the stability of your equipment, and your equipment depends on the accuracy and quality of its calibration. With over 25 years of calibration experience, GMW has become a recognized leader in magnetic field calibration. GMW calibrates or brokers calibrations for the following manufactures: Metrolab, Bartington, Group 3 and Senis.

GMW also has the capability to do in-house repairs if required. Beyond calibrations and repairs GMW offers Mapping of samples using a Senis Mapper and in-house and on-site normalization services for the Metrolab 3048 / 9046 probe array.

Delivery is typically 10 business days after receipt and 30 days for probe arrays.

Revised February 16, 2021

## Capabilities

- NIST Traceable Calibration for DC Magnetic Field Calibration up to 3T
- Magnetic Object Mapping
- Magnetic Field Exposure Testing, DC to 50mT
- Magnetic Field manufacturers calibrated by GMW include
  - Metrolab, Bartington, G3 and Senis

## Applications

- Metrology
- Mapping
- Motors and Motor Drives
- Particle Accelerators
- Electromagnets
- MRI Gradient Magnets

[RMA Request Form](#)

**GMW** Associates

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📍 955 Industrial Road  
San Carlos, California, USA

Sales Order: 30695  
 Normalization date : 4/23/2020  
 Environmental Conditions: 22C / 42%

Probe Array Model Number : MFC3048 3.0T  
 Probe Array SN : 481574  
 MFC3045 Camera SN : 450539

Target Average Value [MHz] : 127.7296007

Before MFC probe Normalization:

Probe #	NMR f. [MHz]	Probe Deviation +/- 0.2 [ppm]
1	127.729583	-0.140
2	127.729621	0.158
3	127.729620	0.153
4	127.729604	0.024
5	127.729621	0.158
6	127.729628	0.211
7	127.729590	-0.085
8	127.729610	0.072
9	127.729607	0.052
10	127.729622	0.163
11	127.729607	0.048
12	127.729579	-0.168
13	127.729603	0.014
14	127.729605	0.034
15	127.729621	0.162
16	127.729590	-0.082
17	127.729622	0.168
18	127.729610	0.076
19	127.729585	-0.121
20	127.729595	-0.044
21	127.729595	-0.043
22	127.729583	-0.140
23	127.729594	-0.053
24	127.729585	-0.121
25	127.729595	-0.044
26	127.729600	-0.005
27	127.729583	-0.142
28	127.729584	-0.131
29	127.729598	-0.024
30	127.729595	-0.043
31	127.729596	-0.034
32	127.729592	-0.072

After MFC Probe Normalization:

Probe #	NMR f. [MHz]	Probe Deviation +/- 0.2 [ppm]
1	127.7295828	-0.140
2	127.7296209	0.158
3	127.7296203	0.153
4	127.7296038	0.024
5	127.7296209	0.158
6	127.7296020	0.010
7	127.7295898	-0.085
8	127.7296099	0.072
9	127.7296074	0.052
10	127.7296215	0.163
11	127.7296068	0.048
12	127.7295792	-0.168
13	127.7296025	0.014
14	127.7296050	0.034
15	127.7296214	0.162
16	127.7295902	-0.082
17	127.7296222	0.168
18	127.7296104	0.076
19	127.7295853	-0.121
20	127.7295951	-0.044
21	127.7295952	-0.043
22	127.7295828	-0.140
23	127.7295939	-0.053
24	127.7295853	-0.121
25	127.7295951	-0.044
26	127.7296001	-0.005
27	127.7295826	-0.142
28	127.7295840	-0.131
29	127.7295976	-0.024
30	127.7295952	-0.043
31	127.7295963	-0.034
32	127.7295915	-0.072

\*Probe deviation is measured by placing each probe successively into a fixed uniform magnetic field.  
 Only probes exceeding the deviation tolerance are readjusted and measured.  
 Probe deviation target is shall not exceed +/- 0.2 PPM.

Figure 1 – Before and After data of 32 points for probe array MFC3048

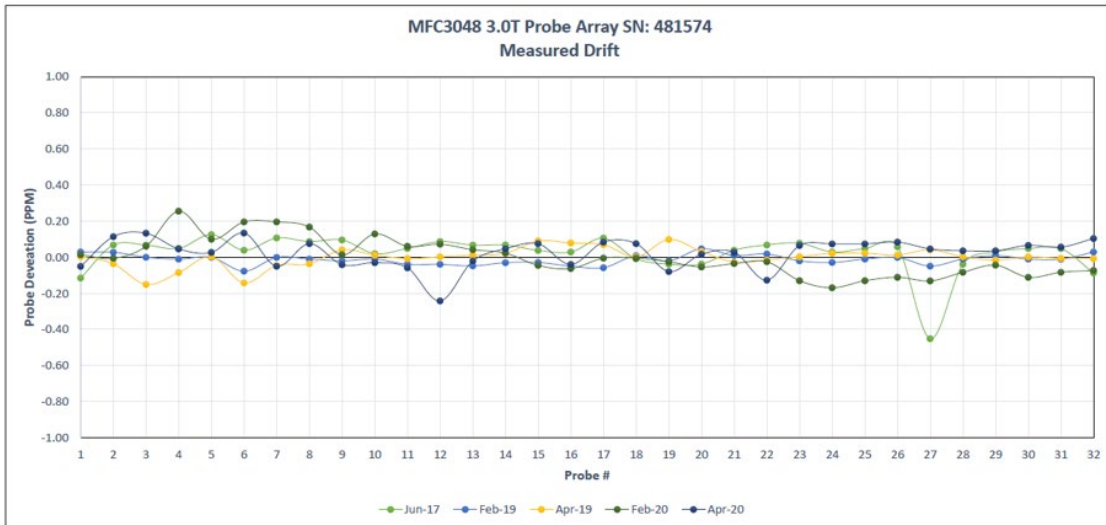


Figure 2 – Yearly data plotted of 32 points for probe array MFC3048