



Certificación 1<sup>er</sup> trimestre 2019 FNMT-RCM  
Datos de tiempo de la central de red FNMT1

Real Instituto y Observatorio de la Armada

1 de Abril de 2019

| Datos de tiempo de la central de red FNMT1 |          |            |           |            |           |           |       |
|--|----------|------------|-----------|------------|-----------|-----------|-------|
| Mes de Enero de 2019                       |          |            |           |            |           |           |       |
| Día  | Sinc/día | Media(s)   | Max.(s)   | Min.(s)    | RMS(s)    | Frec(ppm) | +/-   |
| 01   | 5237     | 5.489e-08  | 5.257e-06 | -5.597e-06 | 1.179e-06 | 10.48     | 0.084 |
| 02   | 5241     | -3.968e-08 | 3.660e-06 | -3.851e-06 | 1.020e-06 | 10.51     | 0.046 |
| 03   | 5237     | 4.556e-08  | 5.185e-06 | -6.982e-06 | 1.348e-06 | 10.47     | 0.083 |
| 04   | 5243     | 9.365e-08  | 5.364e-06 | -5.160e-06 | 1.115e-06 | 10.48     | 0.079 |
| 05   | 5240     | 9.798e-09  | 6.357e-06 | -4.101e-06 | 1.096e-06 | 10.49     | 0.059 |
| 06   | 5236     | 4.053e-08  | 4.144e-06 | -5.255e-06 | 1.111e-06 | 10.46     | 0.074 |
| 07   | 5246     | 5.840e-08  | 4.258e-06 | -4.466e-06 | 1.128e-06 | 10.48     | 0.066 |
| 08   | 5241     | 1.423e-08  | 3.952e-06 | -5.429e-06 | 1.107e-06 | 10.48     | 0.075 |
| 09   | 5239     | 7.908e-07  | 3.722e-05 | -6.015e-05 | 8.168e-06 | 10.94     | 0.551 |
| 10   | 5239     | -4.185e-08 | 9.432e-06 | -1.456e-05 | 2.463e-06 | 11.29     | 0.150 |
| 11   | 5239     | -1.552e-07 | 1.610e-05 | -7.315e-05 | 5.163e-06 | 11.28     | 0.179 |
| 12   | 5234     | -2.664e-08 | 9.593e-06 | -1.727e-05 | 3.102e-06 | 11.25     | 0.160 |
| 13   | 5236     | 2.907e-08  | 9.839e-06 | -1.038e-05 | 2.470e-06 | 11.22     | 0.158 |
| 14   | 5237     | -1.365e-06 | 1.730e-05 | -2.919e-04 | 1.546e-05 | 12.02     | 1.024 |
| 15   | 5239     | 8.236e-08  | 8.230e-06 | -9.052e-06 | 2.352e-06 | 11.25     | 0.135 |
| 16   | 5239     | -2.003e-07 | 1.272e-05 | -1.621e-05 | 2.868e-06 | 11.13     | 0.234 |
| 17   | 5249     | -3.329e-08 | 7.735e-06 | -1.064e-05 | 2.362e-06 | 10.92     | 0.149 |
| 18   | 5242     | 1.515e-07  | 8.003e-06 | -1.193e-05 | 2.155e-06 | 10.89     | 0.159 |
| 19   | 5239     | 8.720e-08  | 8.395e-06 | -1.807e-05 | 2.176e-06 | 10.87     | 0.193 |
| 20   | 5243     | 2.390e-07  | 7.391e-06 | -8.566e-06 | 2.089e-06 | 10.86     | 0.174 |
| 21   | 5246     | -9.868e-10 | 8.285e-06 | -1.708e-05 | 2.748e-06 | 10.94     | 0.222 |
| 22   | 5242     | 1.493e-08  | 1.031e-05 | -1.324e-05 | 2.975e-06 | 10.89     | 0.179 |
| 23   | 5234     | -3.263e-07 | 7.646e-06 | -5.985e-05 | 5.187e-06 | 10.81     | 0.215 |
| 24   | 5245     | 2.723e-08  | 9.068e-06 | -2.536e-05 | 2.715e-06 | 10.86     | 0.158 |
| 25   | 5247     | 3.530e-07  | 9.471e-06 | -1.313e-05 | 2.630e-06 | 10.97     | 0.232 |
| 26   | 5245     | -4.276e-07 | 1.197e-05 | -2.964e-05 | 5.616e-06 | 11.04     | 0.155 |
| 27   | 5240     | -5.681e-07 | 1.058e-05 | -9.356e-05 | 7.140e-06 | 10.99     | 0.247 |
| 28   | 5243     | -1.394e-07 | 1.103e-05 | -2.641e-05 | 5.000e-06 | 11.00     | 0.246 |
| 29   | 5236     | -3.158e-08 | 1.186e-05 | -2.133e-05 | 3.001e-06 | 11.11     | 0.231 |
| 30   | 5240     | -5.871e-08 | 8.264e-06 | -1.522e-05 | 2.479e-06 | 11.25     | 0.158 |
| 31   | 5236     | -2.220e-07 | 7.986e-06 | -1.846e-05 | 2.622e-06 | 11.13     | 0.181 |

| Datos de tiempo de la central de red FNMT1 |          |            |           |            |           |           |       |
|--|----------|------------|-----------|------------|-----------|-----------|-------|
| Mes de Febrero de 2019                     |          |            |           |            |           |           |       |
| Día  | Sinc/día | Media(s)   | Max.(s)   | Min(s).    | RMS(s)    | Frec(ppm) | +/-   |
| 01   | 5240     | 1.443e-07  | 1.134e-05 | -1.071e-05 | 2.539e-06 | 11.03     | 0.212 |
| 02   | 5242     | -3.669e-07 | 1.504e-05 | -4.633e-05 | 5.362e-06 | 11.12     | 0.232 |
| 03   | 5249     | 7.799e-08  | 1.270e-05 | -3.898e-05 | 3.666e-06 | 11.11     | 0.308 |
| 04   | 5234     | 3.262e-08  | 7.734e-06 | -1.183e-05 | 1.947e-06 | 11.29     | 0.175 |
| 05   | 5241     | 1.812e-07  | 8.798e-06 | -8.352e-06 | 2.014e-06 | 11.36     | 0.125 |
| 06   | 5242     | -1.489e-08 | 1.141e-05 | -1.005e-05 | 2.111e-06 | 11.32     | 0.165 |
| 07   | 5244     | -5.388e-08 | 8.770e-06 | -1.151e-05 | 2.135e-06 | 11.31     | 0.157 |
| 08   | 5233     | 2.415e-08  | 8.889e-06 | -1.820e-05 | 3.297e-06 | 11.14     | 0.288 |
| 09   | 5240     | -5.590e-10 | 7.003e-06 | -9.150e-06 | 1.973e-06 | 11.30     | 0.167 |
| 10   | 5239     | 5.805e-08  | 7.579e-06 | -1.638e-05 | 2.197e-06 | 11.28     | 0.179 |
| 11   | 5239     | -2.267e-07 | 1.003e-05 | -3.603e-05 | 3.868e-06 | 11.10     | 0.294 |
| 12   | 5246     | 1.138e-07  | 1.826e-05 | -3.962e-05 | 4.600e-06 | 11.17     | 0.272 |
| 13   | 5235     | -1.327e-07 | 1.042e-05 | -2.094e-05 | 2.736e-06 | 11.32     | 0.186 |
| 14   | 5229     | 7.438e-08  | 1.096e-05 | -1.608e-05 | 2.349e-06 | 11.34     | 0.182 |
| 15   | 5237     | 1.409e-07  | 1.036e-05 | -9.009e-06 | 1.814e-06 | 11.33     | 0.191 |
| 16   | 5250     | 6.946e-08  | 1.055e-05 | -6.004e-06 | 1.659e-06 | 11.37     | 0.135 |
| 17   | 5243     | 7.956e-08  | 8.030e-06 | -1.012e-05 | 2.032e-06 | 11.34     | 0.151 |
| 18   | 5253     | 8.940e-08  | 8.828e-06 | -1.074e-05 | 2.057e-06 | 11.33     | 0.189 |
| 19   | 5240     | -7.974e-08 | 6.070e-06 | -1.101e-05 | 1.788e-06 | 11.38     | 0.132 |
| 20   | 5236     | -8.456e-07 | 1.180e-05 | -6.133e-05 | 6.152e-06 | 11.03     | 0.475 |
| 21   | 5240     | 1.567e-08  | 4.064e-06 | -5.696e-06 | 1.094e-06 | 10.54     | 0.061 |
| 22   | 5239     | 3.961e-08  | 4.496e-06 | -4.657e-06 | 1.043e-06 | 10.55     | 0.043 |
| 23   | 5243     | -9.348e-07 | 6.391e-06 | -2.113e-04 | 1.105e-05 | 11.16     | 0.712 |
| 24   | 5234     | 9.679e-08  | 3.857e-06 | -5.251e-06 | 1.052e-06 | 10.49     | 0.069 |
| 25   | 5243     | -3.937e-07 | 5.421e-06 | -6.631e-05 | 4.174e-06 | 10.65     | 0.214 |
| 26   | 5239     | 6.905e-08  | 4.530e-06 | -5.833e-06 | 1.195e-06 | 10.52     | 0.069 |
| 27   | 5238     | -5.526e-08 | 5.033e-06 | -6.288e-06 | 1.235e-06 | 10.52     | 0.061 |
| 28   | 5234     | 8.303e-08  | 4.991e-06 | -7.096e-06 | 1.205e-06 | 10.50     | 0.076 |

| Datos de tiempo de la central de red FNMT1 |          |            |           |            |           |           |       |
|--|----------|------------|-----------|------------|-----------|-----------|-------|
| Mes de Marzo de 2019                       |          |            |           |            |           |           |       |
| Día  | Sinc/día | Media(s)   | Max.(s)   | Min(s).    | RMS(s)    | Frec(ppm) | +/-   |
| 01   | 5241     | -1.255e-08 | 4.801e-06 | -4.743e-06 | 1.092e-06 | 10.50     | 0.066 |
| 02   | 5238     | -4.602e-08 | 4.262e-06 | -5.212e-06 | 1.152e-06 | 10.48     | 0.075 |
| 03   | 5246     | -8.012e-08 | 4.784e-06 | -1.273e-05 | 1.646e-06 | 10.47     | 0.092 |
| 04   | 5233     | -4.317e-08 | 7.774e-06 | -2.765e-05 | 2.949e-06 | 10.42     | 0.117 |
| 05   | 5237     | 5.461e-08  | 5.127e-06 | -5.938e-06 | 1.306e-06 | 10.48     | 0.066 |
| 06   | 5226     | -1.438e-08 | 5.263e-06 | -5.733e-06 | 1.385e-06 | 10.46     | 0.088 |
| 07   | 5235     | 8.511e-09  | 5.946e-06 | -7.947e-06 | 1.321e-06 | 10.48     | 0.091 |
| 08   | 5242     | 6.570e-08  | 5.427e-06 | -5.053e-06 | 1.068e-06 | 10.53     | 0.053 |
| 09   | 5245     | 3.097e-09  | 5.403e-06 | -6.922e-06 | 1.124e-06 | 10.51     | 0.069 |
| 10   | 5236     | 9.999e-08  | 3.654e-06 | -4.497e-06 | 9.845e-07 | 10.52     | 0.047 |
| 11   | 5233     | 4.970e-08  | 4.592e-06 | -4.970e-06 | 1.175e-06 | 10.51     | 0.077 |
| 12   | 5236     | 4.167e-08  | 5.529e-06 | -5.305e-06 | 1.111e-06 | 10.50     | 0.054 |
| 13   | 5235     | 8.632e-08  | 5.512e-06 | -4.731e-06 | 1.068e-06 | 10.51     | 0.069 |
| 14   | 5241     | -9.107e-08 | 3.464e-06 | -6.696e-06 | 1.227e-06 | 10.49     | 0.073 |
| 15   | 5243     | -1.088e-07 | 9.821e-06 | -1.829e-05 | 2.676e-06 | 10.43     | 0.086 |
| 16   | 5236     | -8.833e-08 | 7.545e-06 | -2.286e-05 | 2.714e-06 | 10.44     | 0.101 |
| 17   | 5239     | -2.467e-08 | 6.822e-06 | -1.664e-05 | 2.038e-06 | 10.44     | 0.086 |
| 18   | 5148     | 5.809e-08  | 5.487e-06 | -8.959e-06 | 1.694e-06 | 10.40     | 0.082 |
| 19   | 5240     | 3.538e-08  | 7.105e-06 | -2.292e-05 | 2.092e-06 | 10.43     | 0.090 |
| 20   | 5077     | 1.620e-07  | 4.301e-05 | -3.071e-05 | 4.801e-06 | 10.91     | 0.534 |
| 21   | 5230     | -2.808e-08 | 4.352e-06 | -1.522e-05 | 1.715e-06 | 10.42     | 0.086 |
| 22   | 5233     | 2.782e-08  | 4.393e-06 | -5.432e-06 | 1.215e-06 | 10.47     | 0.066 |
| 23   | 5230     | -4.048e-08 | 6.666e-06 | -1.143e-05 | 1.578e-06 | 10.42     | 0.080 |
| 24   | 5235     | 1.608e-08  | 5.590e-06 | -1.305e-05 | 1.659e-06 | 10.41     | 0.085 |
| 25   | 5239     | 5.058e-08  | 4.404e-06 | -9.137e-06 | 1.313e-06 | 10.43     | 0.080 |
| 26   | 5235     | -5.120e-07 | 7.418e-06 | -1.180e-04 | 6.321e-06 | 10.71     | 0.420 |
| 27   | 5241     | 5.502e-08  | 5.315e-06 | -8.172e-06 | 1.500e-06 | 10.42     | 0.091 |
| 28   | 5245     | -8.651e-08 | 5.593e-06 | -1.113e-05 | 1.739e-06 | 10.43     | 0.079 |
| 29   | 5243     | -5.402e-08 | 7.909e-06 | -1.325e-05 | 2.363e-06 | 10.40     | 0.099 |
| 30   | 5247     | 2.460e-08  | 5.451e-06 | -9.383e-06 | 1.651e-06 | 10.42     | 0.088 |
| 31   | 5240     | 4.620e-08  | 7.620e-06 | -8.318e-06 | 1.572e-06 | 10.42     | 0.097 |



San Fernando a 1 de Abril de 2019



El CF., Jefe de la Sección de Hora