



Publication Year	2020
Acceptance in OA	2024-03-07T13:09:05Z
Title	LIGO/Virgo S200208q : upper limits from AGILE/GRID observations
Authors	CARDILLO , MARTINA, Longo, F., TAVANI, Marco, CASENTINI, CLAUDIO, PIANO, Giovanni, URSI, ALESSANDRO, LUCARELLI, Fabrizio, PITTORI, Carlotta, VERRECCHIA, Francesco, BULGARELLI, ANDREA, FIORETTI, Valentina, PARMIGGIANI, NICOLO, PILIA, Maura, Agile Team
Handle	http://hdl.handle.net/20.500.12386/34939
Journal	GRB Coordinates Network
Volume	27021

TITLE: GCN CIRCULAR
NUMBER: 27021
SUBJECT: LIGO/Virgo S200208q : upper limits from AGILE/GRID observations
DATE: 20/02/08 17:52:26 GMT
FROM: Francesco Longo at U of Trieste, INFN Trieste
<franzlongo1969@gmail.com>

M. Cardillo (INAF/IAPS), F. Longo (Univ. Trieste, and INFN Trieste), M. Tavani (INAF/IAPS, and Univ. Roma Tor Vergata), C. Casentini, G. Piano, A. Ursi (INAF/IAPS), F. Lucarelli, C. Pittori, F. Verrecchia (SSDC, and INAF/OAR), A. Bulgarelli, V. Fioretti, N. Parmiggiani (INAF/OAS-Bologna), M. Pilia (INAF/OA-Cagliari), report on behalf of the AGILE Team:

In response to the LIGO-Virgo GW event S200208q at $T_0 = 2020-02-08 13:01:17.991$ (UTC) a preliminary analysis of the AGILE exposure at T_0 shows that the Gamma-Ray Imaging Detector (GRID) exposure covered the 37% of the 90% c.l. localization region (LR).

We performed an analysis of the GRID data in the energy range 50 MeV – 10 GeV on T_0 , where good exposure of the S200208q 90% c.l. LR was available.

No candidate gamma-ray transient was detected.

The following preliminary GRID values of 3-sigma upper limit (UL) are obtained:
from $7.0e-08$ to $7.4e-06$ erg cm^{-2} s^{-1} , with exposure of about 72% of the LR over the time interval (T_0 s ; $T_0 + 100$ s);

These measurements were obtained with AGILE observing a large portion of the sky in spinning mode. Additional analysis of AGILE data is in progress.