

v255b

[V255b Observers Wiki page](#)

Correlation notes

ATCA reference station is W104 (CA04).

Correlation: continuum - 256 spectral channels per 16 MHz subband.

Maser targets G9.62 and G8.68 were observed (interleaved with phase calibrators) in the time ranges UT 05:57:30 - 10:12:00, 13:25:00 - 14:36:00, 15:24:40 - 16:28:20. Output dataset has 2048 spectral channels across the 2 MHz frequency range 6667 - 6669 MHz.

Integration time: 2 seconds for all files. No cross-pols.

The two masers are strong and so should be visible at frequencies of 6668.3 and 6667.4 MHz for G9.62 and G8.68 respectively (with the first about a factor of 30 or more stronger than the second).

Output files:

File name	Description
1. v255b.0215-0557.rpf	UT time range 0215-0557. 4 IFs, 1 pol, 256 chans per 16 MHz IF
2. v255b.1436-1524.rpf	UT time range 1436-1524. 4 IFs, 1 pol, 256 chans per 16 MHz IF
3. v255b.G8.68.rpf	1st maser target: dual pol, 2048 channels across 6667-6669 MHz
4. v255b.G9.62.rpf	2nd maser target: dual pol, 2048 channels across 6667-6669 MHz
5. v255b.1105-1120.fullres.rpf	15 mins on calibrators with 2048 channels across 6667-6669 MHz
6. v255b.0557.ctm.rpf	2 IFs (IF3, IF4) dual pol, 256 chans per 16 MHz IF (all sources incl. maser targets)
7. v255b.1524.ctm.rpf	2 IFs (IF3,IF4) dual pol, 256 chans per 16 MHz IF

Analysis notes and links to plots

Verified by: Aquib

Date: May 13, 2009

File-1:

[Data Summary](#)

[Scan Listing](#)

[Autocorrelation plots](#)

[Amplitude and Phase against time](#)

[Amplitude and Phase against frequency](#)

Comments: The data looks Ok

File-2:

[Data Summary](#)

[Scan Listing](#)

[Autocorrelation plots](#)

Comments: Bandpass looks alright

[Amplitude and Phase against time](#)

[Amplitude and Phase against frequency](#)

Comments: Ceduna data lost after 14:36UT due to error in correlation

File-3:

[Data Summary](#)

[Scan Listing](#)

[Autocorrelation plots](#)

Comments: The bandpass plots require some further analysis

[Amplitude and Phase against time](#)

[Amplitude and Phase against frequency](#)

File-4:

[Data Summary](#)

[Scan Listing](#)

[Autocorrelation plots](#)

Comments: Parkes autocorrelation bandpass looks unusual

[Amplitude and Phase against time](#)

[Amplitude and Phase against frequency](#)

File-6:

[Data Summary](#)

[Scan Listing](#)

[Autocorrelation plots](#)

[Amplitude and Phase against time](#)

[Amplitude and Phase against frequency](#)

[Fringe-fit delay solutions](#)

[Fringe-fit phase solutions](#)

[Fringe-fit rate solutions](#)

[Plots of Amplitude and Phase against frequency with fringe-fitted solutions applied](#)

[Plots of Amplitude and Phase against time with fringe-fitted solutions applied](#)

File-7:

[Data Summary](#)

[Scan Listing](#)

[Autocorrelation plots](#)

Comments: There seems to be an unusual dip in Parkes bandpass?

[Amplitude and Phase against time](#)

Comments: Zero amplitude for some of the baselines e.g. Pks - Cd, Pks - Ho and some others

[Amplitude and Phase against frequency](#)

Comments: Same dip observed in baselines to Parkes

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