

## C181D Correlation Report

### General information

- Includes [MG004](#) and [MM013C](#).
- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: [http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr18/feedback\\_apr18.asc](http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr18/feedback_apr18.asc)
- GBT calibration info (Tsys files for download) and other related information for this session can be found here: <https://safe.nrao.edu/wiki/bin/view/GB/Observing/WbandVLBACal/C181>
- *Special processing* was applied to all data in order to correlate mismatching frequency setups of ALMA and other GMVA stations. See details [here](#).

### Current Status

Correlation finished, data **released** on 10/12/2018.

A **second** data release, with a problem, spotted in the original release, corrected, was made on 31/01/2019.

A **third** data release, rerunning PolConvert with the latest (25.06.2019) ALMA QA2 release, was made on 30/09/2019.

### Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	yes	<p>Fringe overview of all baselines including Ef in LL (left for each baseline) and RR (right for each baseline). Legend: white - scheduled, but no data, blue - no fringe, red-green - fringes of different quality. D -- fourfit error, in this case due to mixing upper and lower subbands in the KVN compatibility mode, no real problem with the data.</p> <p>Scans 18-20, 24-26, 28-29, 31, 33, 35-36 are missing from all diagnostic plots due to a difx2mark4 error. They are present in the final correlation products.</p> <p><a href="#">c181d FRINGE RfAnt_Ef_LLRR_AllSrc.pdf</a></p> <p>Examples of fourfit fringe plots:</p> <p><a href="#">c181d_No0038_1055+018_AB_LL.pdf</a>, <a href="#">c181d_No0038_1055+018_AB_LR.pdf</a>,  <a href="#">c181d_No0038_1055+018_AB_RL.pdf</a>, <a href="#">c181d_No0038_1055+018_AB_RR.pdf</a></p> <p><a href="#">c181d_No0052_2013+370_Bt_RL.pdf</a>, <a href="#">c181d_No0052_2013+370_Bt_RR.pdf</a>,</p> <p>no LL or LR fringe</p> <p><a href="#">c181d_No0052_2013+370_Bu_RL.pdf</a>, <a href="#">c181d_No0052_2013+370_Bu_RR.pdf</a>,</p> <p>no LL or LR fringe</p> <p><a href="#">c181d_No0052_2013+370_By_RL.pdf</a>, <a href="#">c181d_No0052_2013+370_By_RR.pdf</a>,</p> <p>no LL or LR fringe</p> <p>Same for all antennas below unless otherwise noted.</p>	<p>in the plots Ef is "missing" all the baselines except to ALMA, GLT and KVN. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.</p>

Station	Code	Fringes	Plots	Comments
On	X	yes	<p><a href="#">c181d FRINGE RfAnt On LLRR AllSrc.pdf</a></p> <p><a href="#">c181d No0038 1055+018 AX LL.pdf</a>, <a href="#">c181d No0038 1055+018 AX LR.pdf</a>,  <a href="#">c181d No0038 1055+018 AX RL.pdf</a>, <a href="#">c181d No0038 1055+018 AX RR.pdf</a></p> <p><a href="#">c181d No0041 2013+370 tX LL.pdf</a>, <a href="#">c181d No0041 2013+370 tX LR.pdf</a>,  <a href="#">c181d No0041 2013+370 tX RL.pdf</a>, <a href="#">c181d No0041 2013+370 tX RR.pdf</a></p> <p><a href="#">c181d No0041 2013+370 uX LL.pdf</a>, <a href="#">c181d No0041 2013+370 uX LR.pdf</a>,  <a href="#">c181d No0041 2013+370 uX RL.pdf</a>, <a href="#">c181d No0041 2013+370 uX RR.pdf</a></p> <p><a href="#">c181d No0041 2013+370 yX LL.pdf</a>, <a href="#">c181d No0041 2013+370 yX LR.pdf</a>,  <a href="#">c181d No0041 2013+370 yX RL.pdf</a>, <a href="#">c181d No0041 2013+370 yX RR.pdf</a></p>	<p>in the plots On is "missing" all the baselines except to ALMA, GLT and KVN. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.</p>
Ys	Y	yes	<p><a href="#">c181d FRINGE RfAnt Ys LLRR AllSrc.pdf</a></p> <p><a href="#">c181d No0038 1055+018 AY LL.pdf</a>, <a href="#">c181d No0038 1055+018 AY LR.pdf</a>,  <a href="#">c181d No0038 1055+018 AY RL.pdf</a>, <a href="#">c181d No0038 1055+018 AY RR.pdf</a></p>	<p>As usual, Ys observed LCP only, but it was also recorded as fake RCP, that's why there are common Ys "right" to other antenna's left fringes.</p> <p>in the plots Ys is "missing" all the baselines except to ALMA, GLT and KVN. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the</p>

Station	Code	Fringes	Plots	Comments
				final correlation products.
Mh	Z	yes	<a href="#">c181d FRINGE RfAnt Mh LLRR AllSrc.pdf</a> <a href="#">c181d No0023 1055+018 AZ LL.pdf</a> , <a href="#">c181d No0023 1055+018 AZ LR.pdf</a> , <a href="#">c181d No0023 1055+018 AZ RL.pdf</a> , <a href="#">c181d No0023 1055+018 AZ RR.pdf</a>	in the plots Mh is "missing" all the baselines except to ALMA, GLT and KVN. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.
Pv	P	yes	<a href="#">c181d FRINGE RfAnt Pv LLRR AllSrc.pdf</a> <a href="#">c181d No0016 OJ287 AP LL.pdf</a> , <a href="#">c181d No0016 OJ287 AP LR.pdf</a> , <a href="#">c181d No0016 OJ287 AP RL.pdf</a> , <a href="#">c181d No0016 OJ287 AP RR.pdf</a> <a href="#">c181d No0016 OJ287 gP LL.pdf</a> , <a href="#">c181d No0016 OJ287 gP LR.pdf</a> , <a href="#">c181d No0016 OJ287 gP RL.pdf</a> , <a href="#">c181d No0016 OJ287 gP RR.pdf</a>	in the plots Pv is "missing" all the baselines except to ALMA, GLT and KVN. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.
VLBA: Br	b	yes	<a href="#">c181d FRINGE RfAnt Br LLRR AllSrc.pdf</a> <a href="#">c181d No0010 BLLAC bf LL.pdf</a> , <a href="#">c181d No0010 BLLAC bf RR.pdf</a> , no LR or RL fringe	Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final

Station	Code	Fringes	Plots	Comments
			<p><a href="#">c181d No0012 BLLAC bl LL.pdf</a>, <a href="#">c181d No0012 BLLAC bl RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC bp LL.pdf</a>, <a href="#">c181d No0012 BLLAC bp RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0039 OJ287 Ab LL.pdf</a>, <a href="#">c181d No0039 OJ287 Ab LR.pdf</a>, <a href="#">c181d No0039 OJ287 Ab RL.pdf</a>, <a href="#">c181d No0039 OJ287 Ab RR.pdf</a></p>	correlation products.
VLBA: Fd	f	yes	<p><a href="#">c181d FRINGE RfAnt Fd LLRR AllSrc.pdf</a></p> <p><a href="#">c181d No0010 BLLAC bf LL.pdf</a>, <a href="#">c181d No0010 BLLAC bf RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0010 BLLAC fk LL.pdf</a>, <a href="#">c181d No0010 BLLAC fk RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0010 BLLAC fl LL.pdf</a>, <a href="#">c181d No0010 BLLAC fl LR.pdf</a>, <a href="#">c181d No0010 BLLAC fl RL.pdf</a>, <a href="#">c181d No0010 BLLAC fl RR.pdf</a></p> <p><a href="#">c181d No0010 BLLAC fo LL.pdf</a>, <a href="#">c181d No0010 BLLAC fo RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0010 BLLAC fp LL.pdf</a>, <a href="#">c181d No0010 BLLAC fp RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC fk LL.pdf</a>, <a href="#">c181d No0012 BLLAC fk RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC fl LL.pdf</a>, <a href="#">c181d No0012 BLLAC fl LR.pdf</a>, np RL fringe, <a href="#">c181d No0012 BLLAC fl RR.pdf</a></p> <p><a href="#">c181d No0012 BLLAC fo LL.pdf</a>, <a href="#">c181d No0012 BLLAC fo RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC fp LL.pdf</a>, <a href="#">c181d No0012 BLLAC fp RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0038 1055+018 Af LL.pdf</a>, <a href="#">c181d No0038 1055+018 Af LR.pdf</a>, <a href="#">c181d No0038 1055+018 Af RL.pdf</a>, <a href="#">c181d No0038 1055+018 Af RR.pdf</a></p>	Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.
VLBA: Kp	k	yes	<p><a href="#">c181d FRINGE RfAnt Kp LLRR AllSrc.pdf</a></p> <p><a href="#">c181d No0010 BLLAC fk LL.pdf</a>, <a href="#">c181d No0010 BLLAC fk RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC fk LL.pdf</a>, <a href="#">c181d No0012 BLLAC fk RR.pdf</a>, no LR or RL fringe</p>	Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final

Station	Code	Fringes	Plots	Comments
			<p><a href="#">c181d No0010 BLLAC kl LL.pdf</a>, <a href="#">c181d No0010 BLLAC kl RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0010 BLLAC ko LL.pdf</a>, <a href="#">c181d No0010 BLLAC ko RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0010 BLLAC kp LL.pdf</a>, <a href="#">c181d No0010 BLLAC kp RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC kl LL.pdf</a>, <a href="#">c181d No0012 BLLAC kl RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC ko LL.pdf</a>, <a href="#">c181d No0012 BLLAC ko RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC kp LL.pdf</a>, <a href="#">c181d No0012 BLLAC kp RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0038 1055+018 Ak LL.pdf</a>, <a href="#">c181d No0038 1055+018 Ak LR.pdf</a>,</p> <p><a href="#">c181d No0038 1055+018 Ak RL.pdf</a>, <a href="#">c181d No0038 1055+018 Ak RR.pdf</a></p>	correlation products.
VLBA: La	1	<b>yes</b>	<p><a href="#">c181d FRINGE RfAnt La LLRR AllSrc.pdf</a></p> <p><a href="#">c181d No0010 BLLAC kl LL.pdf</a>, <a href="#">c181d No0010 BLLAC kl RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0012 BLLAC bl LL.pdf</a>, <a href="#">c181d No0012 BLLAC bl RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0010 BLLAC fl LL.pdf</a>, <a href="#">c181d No0010 BLLAC fl LR.pdf</a>,</p> <p><a href="#">c181d No0010 BLLAC fl RL.pdf</a>, <a href="#">c181d No0010 BLLAC fl RR.pdf</a></p> <p><a href="#">c181d No0012 BLLAC fl LL.pdf</a>, <a href="#">c181d No0012 BLLAC fl LR.pdf</a>,</p> <p>np RL fringe, <a href="#">c181d No0012 BLLAC fl RR.pdf</a></p> <p><a href="#">c181d No0012 BLLAC kl LL.pdf</a>, <a href="#">c181d No0012 BLLAC kl RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0010 BLLAC lo LL.pdf</a>, <a href="#">c181d No0010 BLLAC lo RR.pdf</a>,</p> <p>no LR or RL fringe</p> <p><a href="#">c181d No0010 BLLAC lp LL.pdf</a>, no LR fringe,</p> <p><a href="#">c181d No0010 BLLAC lp RL.pdf</a>, <a href="#">c181d No0010 BLLAC lp RR.pdf</a></p> <p><a href="#">c181d No0012 BLLAC lo LL.pdf</a>, no LR fringe,</p> <p><a href="#">c181d No0012 BLLAC lo RL.pdf</a>, <a href="#">c181d No0012 BLLAC lo RR.pdf</a></p> <p><a href="#">c181d No0012 BLLAC lp LL.pdf</a>, <a href="#">c181d No0012 BLLAC lp LR.pdf</a>,</p> <p><a href="#">c181d No0012 BLLAC lp RL.pdf</a>, <a href="#">c181d No0012 BLLAC lp RR.pdf</a></p>	Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.

Station	Code	Fringes	Plots	Comments
			<a href="#">c181d No0038 1055+018 Al LL.pdf</a> , <a href="#">c181d No0038 1055+018 Al LR.pdf</a> , <a href="#">c181d No0038 1055+018 Al RL.pdf</a> , <a href="#">c181d No0038 1055+018 Al RR.pdf</a>	
VLBA: Mk	m	yes	<a href="#">c181d FRINGE RfAnt Mk LLRR AllSrc.pdf</a> <a href="#">c181d No0039 OJ287 Am LL.pdf</a> , <a href="#">c181d No0039 OJ287 Am LR.pdf</a> , <a href="#">c181d No0039 OJ287 Am RL.pdf</a> , <a href="#">c181d No0039 OJ287 Am RR.pdf</a>	<p>Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.</p> <p>Taken out for several scans because of USNO observing.</p> <p>General performance in c181d poor, with fringes mostly to ALMA.</p>
VLBA: Nl	n	yes	<a href="#">c181d FRINGE RfAnt Nl LLRR AllSrc.pdf</a> <a href="#">c181d No0038 1055+018 An LL.pdf</a> , <a href="#">c181d No0038 1055+018 An LR.pdf</a> , <a href="#">c181d No0038 1055+018 An RL.pdf</a> , <a href="#">c181d No0038 1055+018 An RR.pdf</a>	<p>Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.</p>
VLBA: Ov	o	yes	<a href="#">c181d FRINGE RfAnt Ov LLRR AllSrc.pdf</a> <a href="#">c181d No0010 BLLAC fo LL.pdf</a> , <a href="#">c181d No0010 BLLAC fo RR.pdf</a> , no LR or RL fringe <a href="#">c181d No0010 BLLAC ko LL.pdf</a> , <a href="#">c181d No0010 BLLAC ko RR.pdf</a> , no LR or RL fringe <a href="#">c181d No0010 BLLAC lo LL.pdf</a> , <a href="#">c181d No0010 BLLAC lo RR.pdf</a> ,	<p>Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.</p>

Station	Code	Fringes	Plots	Comments
			<p>no LR or RL fringe  <a href="#">c181d No0012 BLLAC fo LL.pdf</a>, <a href="#">c181d No0012 BLLAC fo RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0012 BLLAC ko LL.pdf</a>, <a href="#">c181d No0012 BLLAC ko RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0012 BLLAC lo LL.pdf</a>, no LR fringe,  <a href="#">c181d No0012 BLLAC lo RL.pdf</a>, <a href="#">c181d No0012 BLLAC lo RR.pdf</a>  <a href="#">c181d No0010 BLLAC op LL.pdf</a>, <a href="#">c181d No0010 BLLAC op RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0012 BLLAC op LL.pdf</a>, <a href="#">c181d No0012 BLLAC op RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0038 1055+018 Ao LL.pdf</a>, no LR fringe,  <a href="#">c181d No0038 1055+018 Ao RL.pdf</a>, <a href="#">c181d No0038 1055+018 Ao RR.pdf</a></p>	
VLBA: Pt	p	<b>yes</b>	<p><a href="#">c181d FRINGE RfAnt Pt LLRR AllSrc.pdf</a>  <a href="#">c181d No0010 BLLAC fp LL.pdf</a>, <a href="#">c181d No0010 BLLAC fp RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0010 BLLAC kp LL.pdf</a>, <a href="#">c181d No0010 BLLAC kp RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0010 BLLAC lp LL.pdf</a>, no LR fringe,  <a href="#">c181d No0010 BLLAC lp RL.pdf</a>, <a href="#">c181d No0010 BLLAC lp RR.pdf</a>  <a href="#">c181d No0010 BLLAC op LL.pdf</a>, <a href="#">c181d No0010 BLLAC op RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0012 BLLAC bp LL.pdf</a>, <a href="#">c181d No0012 BLLAC bp RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0012 BLLAC fp LL.pdf</a>, <a href="#">c181d No0012 BLLAC fp RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0012 BLLAC kp LL.pdf</a>, <a href="#">c181d No0012 BLLAC kp RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0012 BLLAC lp LL.pdf</a>, <a href="#">c181d No0012 BLLAC lp LR.pdf</a>,  <a href="#">c181d No0012 BLLAC lp RL.pdf</a>, <a href="#">c181d No0012 BLLAC lp RR.pdf</a>  <a href="#">c181d No0012 BLLAC op LL.pdf</a>, <a href="#">c181d No0012 BLLAC op RR.pdf</a>,  no LR or RL fringe  <a href="#">c181d No0038 1055+018 Ap LL.pdf</a>, <a href="#">c181d No0038 1055+018 Ap LR.pdf</a>,</p>	<p>Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.  Taken out for several scans because of USNO observing.</p>

Station	Code	Fringes	Plots	Comments
			<a href="#">c181d_No0038_1055+018_Ap_RL.pdf</a> , <a href="#">c181d_No0038_1055+018_Ap_RR.pdf</a>	
GBT: Gb	G	yes	<a href="#">c181d_FRINGE_RfAnt_Gb_LLRR_AllSrc.pdf</a> <a href="#">c181d_No0016_OJ287_AG_LL.pdf</a> , <a href="#">c181d_No0016_OJ287_AG_RR.pdf</a> , no LR or RL fringe	Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products. For most of this experiment: unrecoverable read error of the Mk5 module, logs indicate bad weather, so this loss is considered non-critical
GLT: Gl	g	yes	<a href="#">c181d_FRINGE_RfAnt_Gl_LLRR_AllSrc.pdf</a> <a href="#">c181d_No0038_1055+018_Ag_LL.pdf</a> , <a href="#">c181d_No0038_1055+018_Ag_LR.pdf</a> , <a href="#">c181d_No0038_1055+018_Ag_RL.pdf</a> , <a href="#">c181d_No0038_1055+018_Ag_RR.pdf</a>	Data analysis has shown that GLT recorded in unknown polarization instead of circular (most probably unknown elliptic). At this moment IT <b>SHOULD NOT BE USED FOR ANY POLARIMETRY</b> and in general dealt with very carefully.



Station	Code	Fringes	Plots	Comments
ALMA: Aa	A	yes	<p><a href="#">c181d FRINGE RfAnt Aa LLRR AllSrc.pdf</a></p> <p><a href="#">c181d No0016 OJ287 AG LL.pdf</a>, <a href="#">c181d No0016 OJ287 AG RR.pdf</a>, no LR or RL fringe</p> <p><a href="#">c181d No0023 1055+018 AZ LL.pdf</a>, <a href="#">c181d No0023 1055+018 AZ LR.pdf</a>, <a href="#">c181d No0023 1055+018 AZ RL.pdf</a>, <a href="#">c181d No0023 1055+018 AZ RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 AB LL.pdf</a>, <a href="#">c181d No0038 1055+018 AB LR.pdf</a>, <a href="#">c181d No0038 1055+018 AB RL.pdf</a>, <a href="#">c181d No0038 1055+018 AB RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 Af LL.pdf</a>, <a href="#">c181d No0038 1055+018 Af LR.pdf</a>, <a href="#">c181d No0038 1055+018 Af RL.pdf</a>, <a href="#">c181d No0038 1055+018 Af RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 Ag LL.pdf</a>, <a href="#">c181d No0038 1055+018 Ag LR.pdf</a>, <a href="#">c181d No0038 1055+018 Ag RL.pdf</a>, <a href="#">c181d No0038 1055+018 Ag RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 Ak LL.pdf</a>, <a href="#">c181d No0038 1055+018 Ak LR.pdf</a>, <a href="#">c181d No0038 1055+018 Ak RL.pdf</a>, <a href="#">c181d No0038 1055+018 Ak RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 Al LL.pdf</a>, <a href="#">c181d No0038 1055+018 Al LR.pdf</a>, <a href="#">c181d No0038 1055+018 Al RL.pdf</a>, <a href="#">c181d No0038 1055+018 Al RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 An LL.pdf</a>, <a href="#">c181d No0038 1055+018 An LR.pdf</a>, <a href="#">c181d No0038 1055+018 An RL.pdf</a>, <a href="#">c181d No0038 1055+018 An RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 Ao LL.pdf</a>, no LR fringe, <a href="#">c181d No0038 1055+018 Ao RL.pdf</a>, <a href="#">c181d No0038 1055+018 Ao RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 Ap LL.pdf</a>, <a href="#">c181d No0038 1055+018 Ap LR.pdf</a>, <a href="#">c181d No0038 1055+018 Ap RL.pdf</a>, <a href="#">c181d No0038 1055+018 Ap RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 AX LL.pdf</a>, <a href="#">c181d No0038 1055+018 AX LR.pdf</a>, <a href="#">c181d No0038 1055+018 AX RL.pdf</a>, <a href="#">c181d No0038 1055+018 AX RR.pdf</a></p> <p><a href="#">c181d No0038 1055+018 AY LL.pdf</a>, <a href="#">c181d No0038 1055+018 AY LR.pdf</a>, <a href="#">c181d No0038 1055+018 AY RL.pdf</a>, <a href="#">c181d No0038 1055+018 AY RR.pdf</a></p> <p><a href="#">c181d No0039 OJ287 Ab LL.pdf</a>, <a href="#">c181d No0039 OJ287 Ab LR.pdf</a>, <a href="#">c181d No0039 OJ287 Ab RL.pdf</a>, <a href="#">c181d No0039 OJ287 Ab RR.pdf</a></p> <p><a href="#">c181d No0039 OJ287 Am LL.pdf</a>, <a href="#">c181d No0039 OJ287 Am LR.pdf</a>, <a href="#">c181d No0039 OJ287 Am RL.pdf</a>, <a href="#">c181d No0039 OJ287 Am RR.pdf</a></p> <p>-----</p>	<p>Observed in linear polarization, converted to circular polarization in post-correlation using PolConvert. For technical reasons the atmospheric correction was applied twice -- both in original ALMA data and during the correlation. Although a special procedure was developed to compensate for this, we found that its application leads to other difficulties, in particular to abnormally high fringe rate jumps, so in the final production run the double atmospheric correction was left as is.</p>
KVN: Kt	t	yes	<p><a href="#">c181d FRINGE RfAnt Kt LLRR AllSrc.pdf</a></p>	

Station	Code	Fringes	Plots	Comments
			<p><a href="#">c181d No0041 2013+370 tu LL.pdf</a>, <a href="#">c181d No0041 2013+370 tu LR.pdf</a>,  <a href="#">c181d No0041 2013+370 tu RL.pdf</a>, <a href="#">c181d No0041 2013+370 tu RR.pdf</a></p> <p><a href="#">c181d No0041 2013+370 tX LL.pdf</a>, <a href="#">c181d No0041 2013+370 tX LR.pdf</a>,  <a href="#">c181d No0041 2013+370 tX RL.pdf</a>, <a href="#">c181d No0041 2013+370 tX RR.pdf</a></p> <p><a href="#">c181d No0041 2013+370 ty LL.pdf</a>, <a href="#">c181d No0041 2013+370 ty LR.pdf</a>,  <a href="#">c181d No0041 2013+370 ty RL.pdf</a>, <a href="#">c181d No0041 2013+370 ty RR.pdf</a></p> <p><a href="#">c181d No0052 2013+370 Bt RL.pdf</a>, <a href="#">c181d No0052 2013+370 Bt RR.pdf</a>,  no LL or LR fringe</p> <p><a href="#">c181d No0087 OJ287 tu LL.pdf</a>, <a href="#">c181d No0087 OJ287 tu LR.pdf</a>,  <a href="#">c181d No0087 OJ287 tu RL.pdf</a>, <a href="#">c181d No0087 OJ287 tu RR.pdf</a></p> <p><a href="#">c181d No0087 OJ287 ty LL.pdf</a>, <a href="#">c181d No0087 OJ287 ty LR.pdf</a>,  <a href="#">c181d No0087 OJ287 ty RL.pdf</a>, <a href="#">c181d No0087 OJ287 ty RR.pdf</a></p>	
KVN: Ku	u	yes	<p><a href="#">c181d FRINGE RfAnt Ku LLRR AllSrc.pdf</a></p> <p><a href="#">c181d No0041 2013+370 tu LL.pdf</a>, <a href="#">c181d No0041 2013+370 tu LR.pdf</a>,  <a href="#">c181d No0041 2013+370 tu RL.pdf</a>, <a href="#">c181d No0041 2013+370 tu RR.pdf</a>  <a href="#">c181d No0041 2013+370 uX LL.pdf</a>, <a href="#">c181d No0041 2013+370 uX LR.pdf</a>,  <a href="#">c181d No0041 2013+370 uX RL.pdf</a>, <a href="#">c181d No0041 2013+370 uX RR.pdf</a></p> <p><a href="#">c181d No0041 2013+370 uy LL.pdf</a>, <a href="#">c181d No0041 2013+370 uy LR.pdf</a>,  <a href="#">c181d No0041 2013+370 uy RL.pdf</a>, <a href="#">c181d No0041 2013+370 uy RR.pdf</a></p> <p><a href="#">c181d No0052 2013+370 Bu RL.pdf</a>, <a href="#">c181d No0052 2013+370 Bu RR.pdf</a>,  no LL or LR fringe</p> <p><a href="#">c181d No0087 OJ287 tu LL.pdf</a>, <a href="#">c181d No0087 OJ287 tu LR.pdf</a>,  <a href="#">c181d No0087 OJ287 tu RL.pdf</a>, <a href="#">c181d No0087 OJ287 tu RR.pdf</a></p>	
KVN: Ky	y	yes	<p><a href="#">c181d FRINGE RfAnt Ky LLRR AllSrc.pdf</a></p> <p><a href="#">c181d No0041 2013+370 ty LL.pdf</a>, <a href="#">c181d No0041 2013+370 ty LR.pdf</a>,  <a href="#">c181d No0041 2013+370 ty RL.pdf</a>, <a href="#">c181d No0041 2013+370 ty RR.pdf</a></p> <p><a href="#">c181d No0041 2013+370 uy LL.pdf</a>, <a href="#">c181d No0041 2013+370 uy LR.pdf</a>,  <a href="#">c181d No0041 2013+370 uy RL.pdf</a>, <a href="#">c181d No0041 2013+370 uy RR.pdf</a></p> <p><a href="#">c181d No0041 2013+370 yX LL.pdf</a>, <a href="#">c181d No0041 2013+370 yX LR.pdf</a>,  <a href="#">c181d No0041 2013+370 yX RL.pdf</a>, <a href="#">c181d No0041 2013+370 yX RR.pdf</a></p> <p><a href="#">c181d No0052 2013+370 By RL.pdf</a>, <a href="#">c181d No0052 2013+370 By RR.pdf</a>,  no LL or LR fringe</p>	

Station	Code	Fringes	Plots	Comments
			<a href="#">c181d_No0087_OJ287_ty_LL.pdf</a> , <a href="#">c181d_No0087_OJ287_ty_LR.pdf</a> , <a href="#">c181d_No0087_OJ287_ty_RL.pdf</a> , <a href="#">c181d_No0087_OJ287_ty_RR.pdf</a>	

### Notes

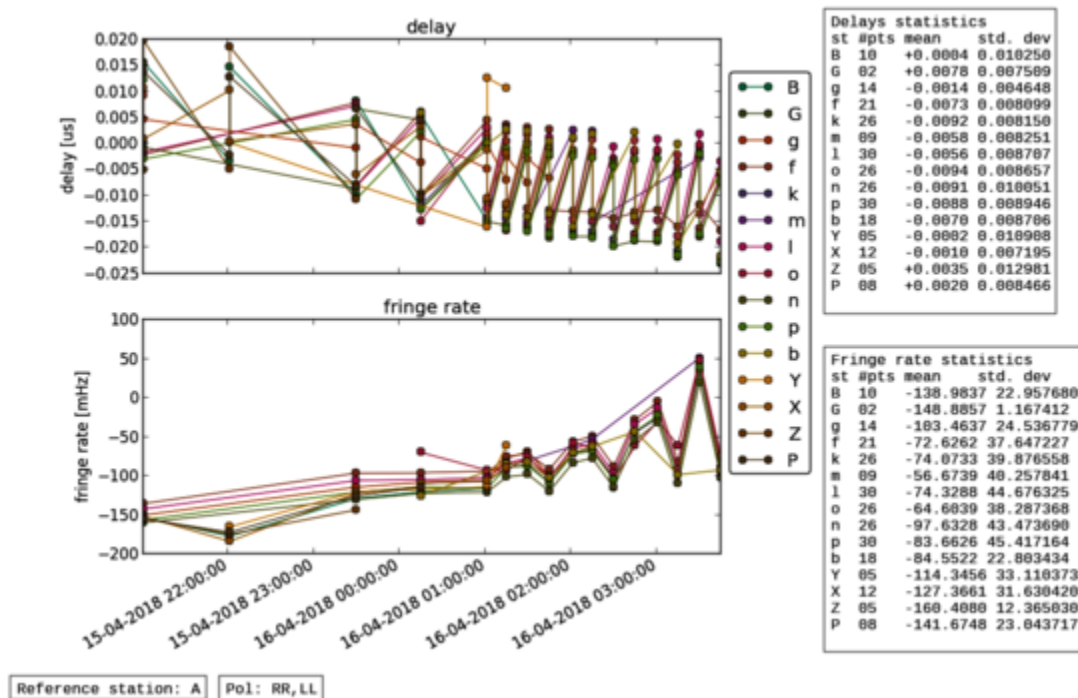
There were problems with some diagnostic plots of this experiment due to yet poorly understood errors of fourfit and other HOPS components. But this does not change the quality of the final correlation products. *(These issues were fixed in the second data release of 31/01/2019)*

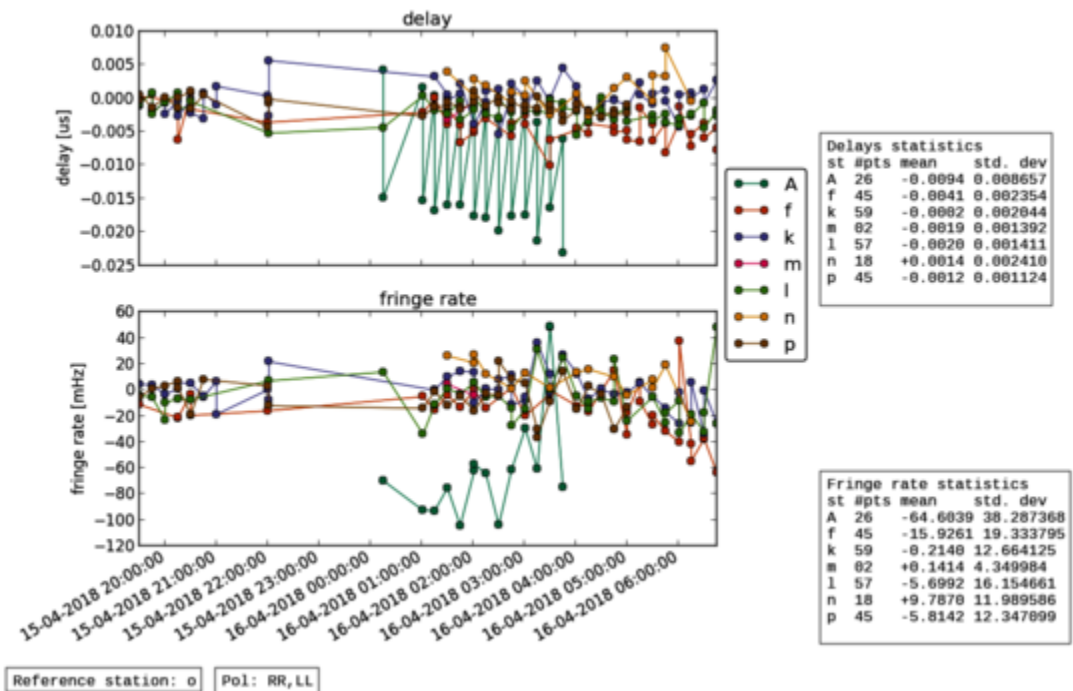
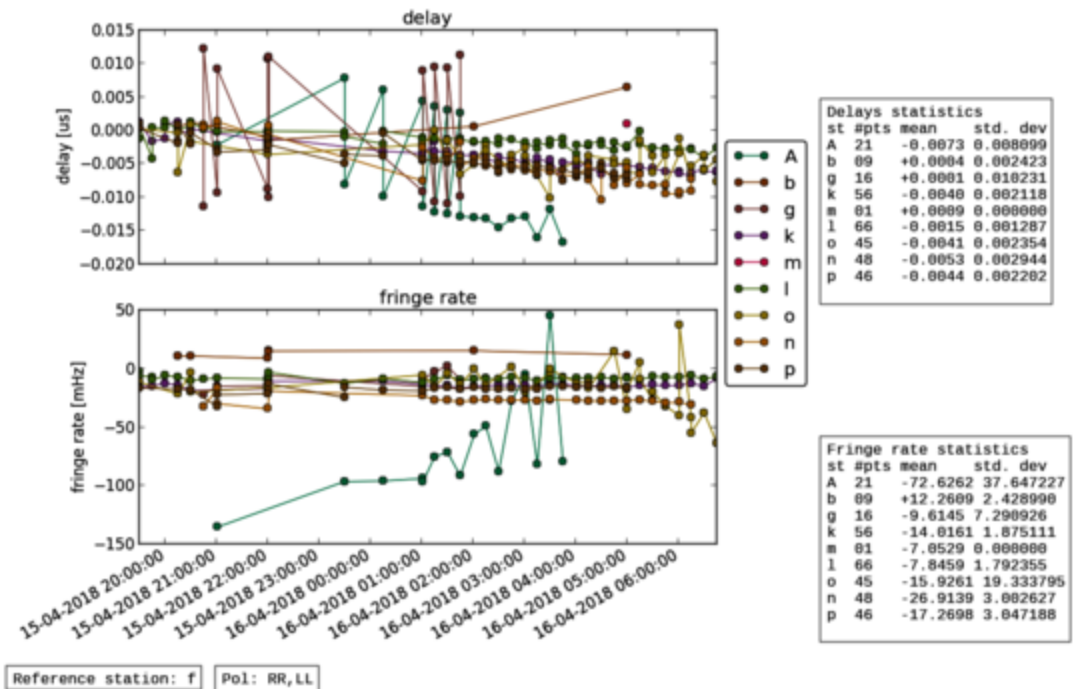
GLT participated in this session for the first time as a test, and serious problems were detected when analysing its data. Be very carerful when using them.

For technical reasons the correlation output is saved as 4 different fits files, see their content below in the plist section.

### Post-Correlation checks

#### Residuals





**FITS completeness (plist)**

**legend:**

- o -- station scheduled and fully accounted for in the fits file
- 42 (or another number) -- station scheduled, but data found only for 42% of the scheduled interval
- x -- station scheduled, but corresponding entry not found in the fits file
- . -- station not scheduled

## c181d\_setup1.fits:

				GB	EF	ON	PV	YS	MH	GL	NL	FD	PT	LA	OV	KP	BR	MK	AA	AA	KY	KU	KT
c181d_01D2D	No0002	OJ287	3mm_RDBE	o	o	x	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c181d_02D2D	No0003	BLLAC	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	.	.
c181d_03D2D	No0004	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c181d_04D2D	No0005	BLLAC	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	.	.
c181d_05D2D	No0006	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	x	x	.	.	.
c181d_06D2D	No0007	BLLAC	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	.	.
c181d_07D2D	No0009	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	x	x	.	.	.
c181d_08D2D	No0010	BLLAC	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	.	.
c181d_09D2D	No0011	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	x	x	.	.	.
c181d_10D2D	No0012	BLLAC	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	.	.
c181d_11D2D	No0013	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	.	.	.	.	.	x	x	.	.	.
c181d_12D2D	No0014	BLLAC	3mm_RDBE	.	.	.	.	.	.	.	.	o	.	o	o	o	o	o	.	.	.	.	.
c181d_13D2D	No0016	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.	96	96	.	.	.
c181d_14D2D	No0017	BLLAC	3mm_RDBE	.	.	.	.	.	.	.	.	.	.	.	o	o	o	o	.	.	.	.	.
c181d_15D2D	No0018	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.
c181d_16D2D	No0019	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.
c181d_18D2D	No0021	OJ287	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.	.	.	.
c181d_34D2D	No0040	OJ287	3mm_RDBE	x	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_36D2D	No0042	1055+018	3mm_RDBE	x	.	.	.	.	.	o	o	o	o	o	o	o	o	.	o	o	.	.	.
c181d_38D2D	No0045	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_40D2D	No0047	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_42D2D	No0049	1055+018	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_44D2D	No0051	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_46D2D	No0054	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_48D2D	No0056	1055+018	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_50D2D	No0058	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_52D2D	No0060	1055+018	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_54D2D	No0063	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.	.	.
c181d_56D2D	No0065	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.	.	.
c181d_58D2D	No0067	1055+018	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	.	.
c181d_60D2D	No0069	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.	.	.
c181d_62D2D	No0072	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	o	o	o
c181d_64D2D	No0074	1055+018	3mm_RDBE	x	.	.	.	.	.	.	o	o	x	o	o	o	o	25	.	.	.	.	.
c181d_66D2D	No0076	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	x	o	o	o	o	x	.	.	o	o	o
c181d_68D2D	No0078	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	x	o	o	o	o	x	.	.	o	o	o
c181d_70D2D	No0081	1055+018	3mm_RDBE	x	.	.	.	.	.	.	o	o	x	o	o	o	o	x	.	.	.	.	.
c181d_72D2D	No0083	OJ287	3mm_RDBE	x	.	.	.	.	.	.	o	o	x	o	o	o	o	x	.	.	o	o	o
c181d_74D2D	No0085	OJ287	3mm_RDBE	.	.	.	.	.	.	.	o	o	x	o	o	o	o	x	.	.	o	o	o
c181d_76D2D	No0087	OJ287	3mm_RDBE	.	.	.	.	.	.	.	o	o	x	o	o	o	o	85	.	.	o	o	o

## c181d\_setup2.fits:

				GB	EF	ON	PV	YS	MH	GL	NL	FD	PT	LA	OV	KP	BR	MK	AA	AA	KY	KU	KT
c181d_17D2D	No0020	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.	.

## c181d\_setup3.fits:

				GB	EF	ON	PV	YS	MH	GL	NL	FD	PT	LA	OV	KP	BR	MK	AA	AA	KY	KU	KT
c181d_20D2D	No0023	1055+018	3mm_RDBE	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	o	o	.	.	.
c181d_21D2D	No0024	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.	.
c181d_22D2D	No0025	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.	.
c181d_23D2D	No0026	OJ287	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.	.
c181d_24D2D	No0028	OJ287	3mm_RDBE	x	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.	.

## c181d\_setup4.fits:

				GB	EF	ON	PV	YS	MH	GL	NL	FD	PT	LA	OV	KP	BR	MK	AA	AA	KY	KU	KT
c181d_25D2D	No0029	OJ287	3mm_RDBE	x	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.	.
c181d_26D2D	No0030	1055+018	3mm_RDBE	x	o	o	o	o	o	o	o	o	o	o	.	.	.	.	o	o	.	.	.
c181d_27D2D	No0031	OJ287	3mm_RDBE	x	o	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	.	.	.
c181d_28D2D	No0033	OJ287	3mm_RDBE	x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181d_29D2D	No0034	1055+018	3mm_RDBE	x	o	o	o	o	.	o	o	o	o	o	o	o	o	.	o	o	.	.	.
c181d_30D2D	No0035	OJ287	3mm_RDBE	x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181d_31D2D	No0036	OJ287	3mm_RDBE	x	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181d_32D2D	No0038	1055+018	3mm_RDBE	x	o	o	o	o	.	o	o	o	o	o	o	o	o	.	o	o	.	.	.
c181d_33D2D	No0039	OJ287	3mm_RDBE	x	.	o	o	o	.	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181d_35D2D	No0041	2013+370	3mm_RDBE	.	o	o	95	o	o	.	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_37D2D	No0043	2013+370	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_39D2D	No0046	BLLAC	3mm_RDBE	.	o	o	52	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_41D2D	No0048	2013+370	3mm_RDBE	.	o	o	52	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_43D2D	No0050	BLLAC	3mm_RDBE	.	o	o	52	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_45D2D	No0052	2013+370	3mm_RDBE	.	o	o	52	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_47D2D	No0055	BLLAC	3mm_RDBE	.	o	o	52	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_49D2D	No0057	2013+370	3mm_RDBE	.	o	o	52	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_51D2D	No0059	BLLAC	3mm_RDBE	.	o	o	52	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_53D2D	No0061	2013+370	3mm_RDBE	.	o	o	52	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_55D2D	No0064	BLLAC	3mm_RDBE	.	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_57D2D	No0066	2013+370	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_59D2D	No0068	BLLAC	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_61D2D	No0070	BLLAC	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_63D2D	No0073	2013+370	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.	.
c181d_65D2D	No0075	BLLAC	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_67D2D	No0077	2013+370	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.	.
c181d_69D2D	No0079	BLLAC	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.	.
c181d_71D2D	No0082	BLLAC	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	o	o	o
c181d_73D2D	No0084	2013+370	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.	.
c181d_75D2D	No0086	BLLAC	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.	.
c181d_77D2D	No0088	BLLAC	3mm_RDBE	.	o	o	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.	.