

# C191D/MM016 Correlation Report

## General information

- Consists of only one science project: **MM016**
- PI: Marscher
- Targets: FERMI sources
- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: [http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr19/feedback\\_apr19.asc](http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr19/feedback_apr19.asc)
- Text file with detailed antenna statistics, scroll down to get to the cumulative statistics for the whole experiment:  
[c191d.antrep](http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr19/c191d.antrep)

## Current Status

correlation finished, data **released** on 19/09/2019.

the **second release** was made on 18/01/2020 to fix the double autocorrelation issue.

## Fringes

Fourfit fringe plots with fringes to multiple antennas:

Scan No0106, source 1749+096, fringes to Ef, On, Br, Fd, Kp, La, Nl, Ov: [No0106\\_all.pdf](#)

Scan No0126, source BLLAC, fringes to Ef, On, Mh, Gl, Fd, Ov, Pt: [No0126\\_all.pdf](#)

Scan No0142, source 3C84, fringes to Ef, On, Mh, Br, Fd, Kp, La, Ov, Pt: [No0142\\_all.pdf](#)

Scan No0149, source 3C84, fringes to Ef, On, Mh, Br, Fd, Kp, La, Mk, Ov, Pt: [No0149\\_all.pdf](#)

Scan No0176, source 3C84, fringes to Fd, Kp, La, Ov, Pt, Kt, Ku, Ky: [No0176\\_all.pdf](#)

Scan No0217, source 0716+714, fringes to Ef, On, Mh, Kt, Ku: [No0217\\_all.pdf](#)

Scan No0259, source 3C454.3, fringes to Ef, On, Ys, Mh, Br, Fd, Kp, La, Nl, Ov, Pt: [No0259\\_all.pdf](#)

Station	Code	Fringes	Plots	Comments
Ef	B	yes	<p>Fringe overview of all baselines (all of C191D) including this antenna in LL (left for each baseline) and RR (right for each baseline).</p> <p>Legend: white - scheduled, but no data, blue - no fringe, dark red/brown/green - fringes of different quality.</p> <p><a href="#">c191d FRINGE RfAnt Ef LLRR AllSrc.pdf</a></p> <p>Examples of fourfit fringe plots:</p> <p><a href="#">No0106_all.pdf</a>, <a href="#">No0126_all.pdf</a>, <a href="#">No0142_all.pdf</a>, <a href="#">No0149_all.pdf</a>, <a href="#">No0217_all.pdf</a>, <a href="#">No0259_all.pdf</a></p>	weather mixed, everything from clear sky to light rain

Station	Code	Fringes	Plots	Comments
			Same for all antennas below unless otherwise noted.	
On	X	yes	<a href="#">c191d_FRINGE_RfAnt_On_LLRR_AllSrc.pdf</a> <a href="#">No0106_all.pdf</a> , <a href="#">No0126_all.pdf</a> , <a href="#">No0142_all.pdf</a> , <a href="#">No0149_all.pdf</a> , <a href="#">No0217_all.pdf</a> , <a href="#">No0259_all.pdf</a>	
Ys	Y	yes	<a href="#">c191d_FRINGE_RfAnt_Ys_LLRR_AllSrc.pdf</a> <a href="#">No0259_all.pdf</a>	no fringes for most of the experiment
Mh	Z	yes	<a href="#">c191d_FRINGE_RfAnt_Mh_LLRR_AllSrc.pdf</a> <a href="#">No0126_all.pdf</a> , <a href="#">No0142_all.pdf</a> , <a href="#">No0149_all.pdf</a> , <a href="#">No0217_all.pdf</a> , <a href="#">No0259_all.pdf</a>	weather deteriorated towards the end of the experiment
Pv	P	no	<a href="#">c191d_FRINGE_RfAnt_Pv_LLRR_AllSrc.pdf</a>	Down due to the weather
GLT: Gl	g	yes	<a href="#">c191d_FRINGE_RfAnt_Gl_LLRR_AllSrc.pdf</a> <a href="#">No0126_all.pdf</a>	confirmed correct polarization configuration for this session
VLBA: Br	b	yes	<a href="#">c191d_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf</a> <a href="#">No0106_all.pdf</a> , <a href="#">No0142_all.pdf</a> , <a href="#">No0149_all.pdf</a> , <a href="#">No0259_all.pdf</a>	rain, problems with updating Tsys, possible problems by the end of the experiment for technical reasons
VLBA: Fd	f	yes	<a href="#">c191d_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf</a> <a href="#">No0106_all.pdf</a> , <a href="#">No0126_all.pdf</a> , <a href="#">No0142_all.pdf</a> , <a href="#">No0149_all.pdf</a> , <a href="#">No0176_all.pdf</a> , <a href="#">No0259_all.pdf</a>	
VLBA: Kp	k	yes	<a href="#">c191d_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf</a> <a href="#">No0106_all.pdf</a> , <a href="#">No0142_all.pdf</a> , <a href="#">No0149_all.pdf</a> , <a href="#">No0176_all.pdf</a> , <a href="#">No0259_all.pdf</a>	pointing issues, problems with updating Tsys

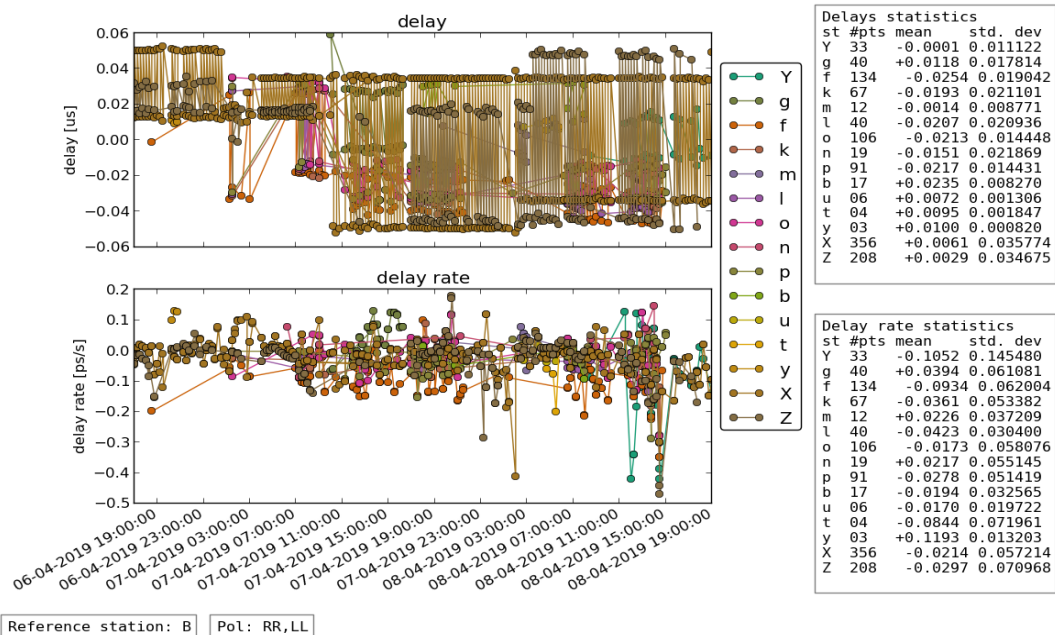
Station	Code	Fringes	Plots	Comments
VLBA: La	l	yes	<a href="#">c191d FRINGE RfAnt La LLRR AllSrc.pdf</a> <a href="#">No0106_all.pdf</a> , <a href="#">No0142_all.pdf</a> , <a href="#">No0149_all.pdf</a> , <a href="#">No0176_all.pdf</a> , <a href="#">No0259_all.pdf</a>	rotation errors, problems with updating Tsys, autostowed several times due to power glitch
VLBA: Mk	m	yes	<a href="#">c191d FRINGE RfAnt Mk LLRR AllSrc.pdf</a> <a href="#">No0149_all.pdf</a>	Windy. Receiver is slightly warm. Long non-recording periods for technical reasons. Taken out for several scans because of USNO observing.
VLBA: Nl	n	yes	<a href="#">c191d FRINGE RfAnt Nl LLRR AllSrc.pdf</a> <a href="#">No0106_all.pdf</a> , <a href="#">No0259_all.pdf</a>	rain, problems with updating Tsys
VLBA: Ov	o	yes	<a href="#">c191d FRINGE RfAnt Ov LLRR AllSrc.pdf</a> <a href="#">No0106_all.pdf</a> , <a href="#">No0126_all.pdf</a> , <a href="#">No0142_all.pdf</a> , <a href="#">No0149_all.pdf</a> , <a href="#">No0176_all.pdf</a> , <a href="#">No0259_all.pdf</a>	.
VLBA: Pt	p	yes	<a href="#">c191d FRINGE RfAnt Pt LLRR AllSrc.pdf</a> <a href="#">No0126_all.pdf</a> , <a href="#">No0142_all.pdf</a> , <a href="#">No0149_all.pdf</a> , <a href="#">No0176_all.pdf</a> , <a href="#">No0259_all.pdf</a>	Errors following power outage. Taken out for several scans because of USNO observing. Parked temporarily due to cryo work.
KVN: Kt	t	yes	<a href="#">c191d FRINGE RfAnt Kt LLRR AllSrc.pdf</a> <a href="#">No0176_all.pdf</a> , <a href="#">No0217_all.pdf</a>	only a few fringes, polarization seems to be off: snr for II pols is similar to X pols
KVN: Ku	u	yes	<a href="#">c191d FRINGE RfAnt Ku LLRR AllSrc.pdf</a> <a href="#">No0176_all.pdf</a> , <a href="#">No0217_all.pdf</a>	only a few fringes, polarization seems to be off: snr for II pols is similar to X pols
KVN: Ky	y	yes	<a href="#">c191d FRINGE RfAnt Ky LLRR AllSrc.pdf</a> <a href="#">No0176_all.pdf</a>	only a few fringes, polarization seems to be off: snr for II pols is similar to X pols

## Notes

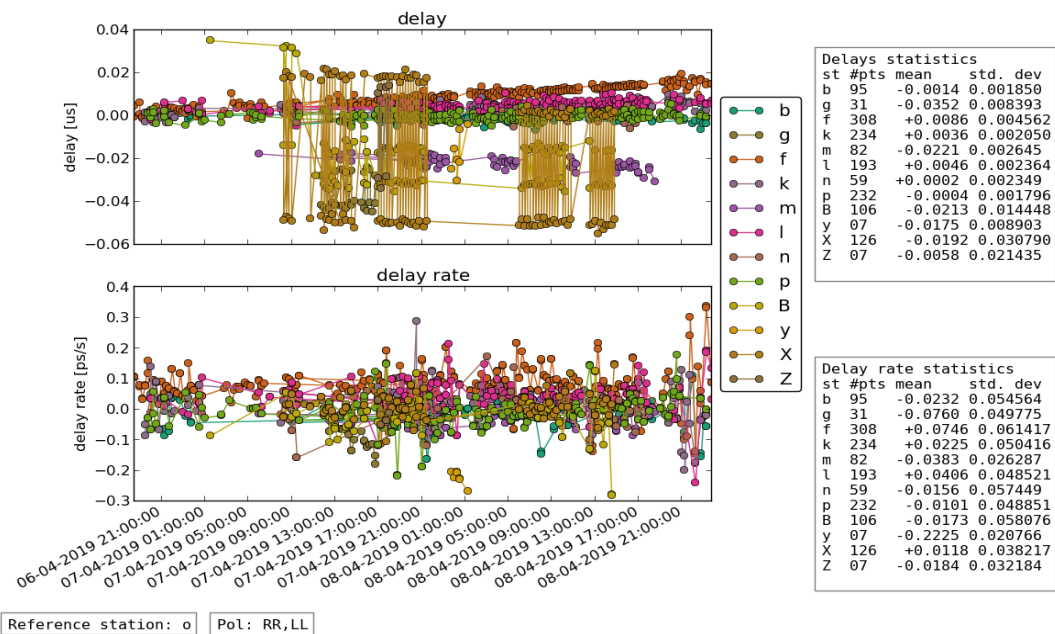
### Post-Correlation checks

### Residuals

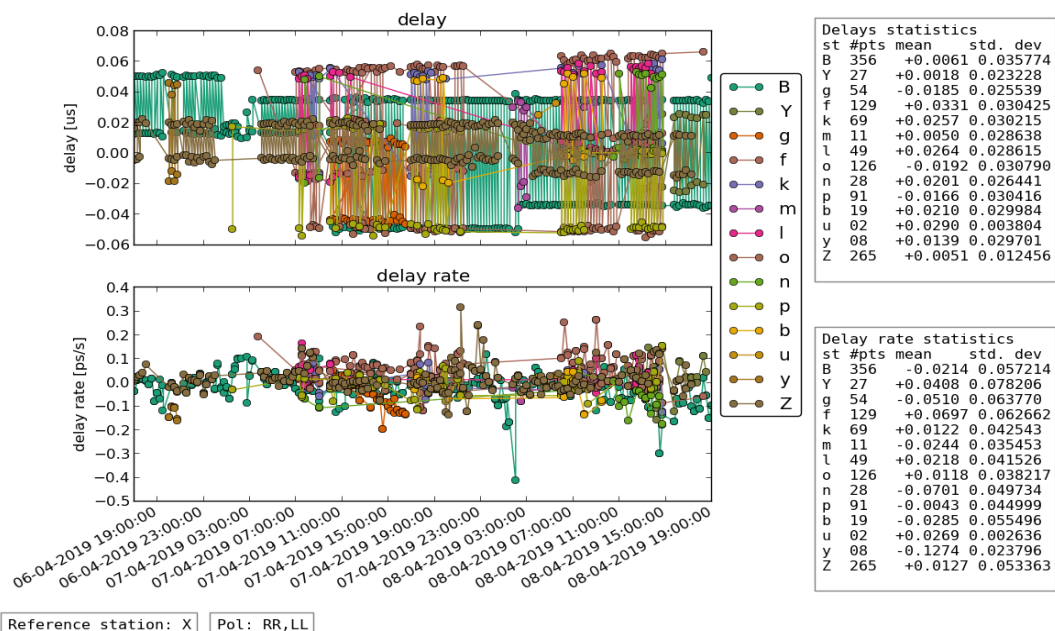
Ef:



Ov:



On:



**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

**mm016.fits:**

				EF	ON	YS	PV	MH	GL	NL	FD	OV	PT	BR	KP	LA	KY	KU	KT	MK
c191d_001	No0001	3C120	3mm_RDBE	o	o	o	x	o	x	o	.	.	.	.	.	.	.	.	.	.
c191d_002	No0002	0716+714	3mm_RDBE	.	.	.	.	.	.	.	56	53	x	o	o	o	o	o	o	.
c191d_003	No0003	3C120	3mm_RDBE	o	o	o	x	o	x	o	.	.	.	.	.	.	.	.	.	.
c191d_004	No0004	0716+714	3mm_RDBE	.	.	.	.	.	.	.	o	o	x	o	o	o	o	o	o	.
c191d_005	No0005	3C120	3mm_RDBE	o	o	o	x	o	x	o	.	.	.	.	.	.	.	.	.	.
c191d_006	No0006	0716+714	3mm_RDBE	.	.	.	.	.	.	.	o	o	x	o	o	o	o	o	o	.
c191d_007	No0007	3C120	3mm_RDBE	o	o	o	x	o	x	o	.	.	.	.	.	.	.	.	.	.
c191d_008	No0008	0716+714	3mm_RDBE	.	.	.	.	.	.	.	o	o	x	o	o	o	o	o	o	.
c191d_009	No0009	3C120	3mm_RDBE	o	o	o	x	o	x	o	.	.	x	.	.	.	.	.	.	.
c191d_010	No0010	0716+714	3mm_RDBE	.	.	.	.	.	.	.	o	.	o	o	o	o	o	o	o	.
c191d_011	No0011	3C120	3mm_RDBE	o	o	o	x	o	x	o	.	.	x	.	.	o	.	.	.	.
c191d_012	No0012	0716+714	3mm_RDBE	.	.	.	.	.	.	.	o	.	o	o	.	o	o	o	o	.
c191d_013	No0013	0420-014	3mm_RDBE	o	o	o	x	.	x	o	o	o	x	.	o	o	.	.	.	.
c191d_014	No0014	3C120	3mm_RDBE	o	o	o	x	o	x	o	87	87	x	o	o	.	.	.	.	.
c191d_015	No0015	3C120	3mm_RDBE	o	o	o	x	.	x	o	87	87	x	o	o	.	.	.	.	.
c191d_016	No0016	3C120	3mm_RDBE	o	o	o	x	.	x	o	87	87	x	o	o	.	.	.	.	.
c191d_017	No0017	3C120	3mm_RDBE	o	o	o	x	.	x	o	87	87	87	o	o	o	.	.	.	.

c191d_018	No0018	3C120	3mm_RDBE	o	.	o	x	.	x	o	87	87	87	o	o	o	.	.	.	.
c191d_019	No0019	0420-014	3mm_RDBE	.	.	o	x	.	x	o	o	o	o	o	o	o	.	.	.	.
c191d_020	No0020	0716+714	3mm_RDBE	o	o	.	.	o	.	.	.	.	.	.	.	o	o	o	.	.
c191d_021	No0021	3C120	3mm_RDBE	.	.	o	x	.	x	o	o	o	o	o	o	o	.	.	.	.
c191d_022	No0022	0716+714	3mm_RDBE	o	o	.	.	o	.	.	.	.	.	.	.	o	o	o	.	.
c191d_023	No0023	3C120	3mm_RDBE	.	.	o	x	.	x	o	66	87	o	95	o	o	.	.	.	.
c191d_024	No0024	0716+714	3mm_RDBE	o	o	.	.	o	.	.	.	.	.	.	.	o	o	o	.	.
c191d_025	No0025	3C120	3mm_RDBE	.	.	.	.	.	x	o	o	90	o	o	o	o	.	.	.	x
c191d_026	No0026	0716+714	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	o	o	o	.	.
c191d_027	No0027	3C120	3mm_RDBE	.	.	.	.	.	x	o	o	o	o	o	o	o	.	.	.	x
c191d_028	No0028	0420-014	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	x
c191d_029	No0029	4C39.25	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_030	No0030	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	x
c191d_031	No0031	4C39.25	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_032	No0032	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	x
c191d_033	No0033	1156+295	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_034	No0034	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	x
c191d_035	No0035	4C39.25	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_036	No0036	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o
c191d_037	No0037	1156+295	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_038	No0038	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o
c191d_039	No0039	4C39.25	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_040	No0040	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	x	o	.	.	.	o
c191d_041	No0041	1156+295	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_042	No0042	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	13	o	o	o	.	.	.	o
c191d_043	No0043	4C39.25	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_044	No0044	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o
c191d_045	No0045	1156+295	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_046	No0046	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o
c191d_047	No0047	4C39.25	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_048	No0048	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o
c191d_049	No0049	1156+295	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_050	No0050	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o
c191d_051	No0051	4C39.25	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_052	No0052	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o
c191d_053	No0053	1156+295	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_054	No0054	3C120	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o
c191d_055	No0055	4C39.25	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_056	No0056	3C120	3mm_RDBE	.	.	.	.	.	.	o	46	o	o	o	o	o	.	.	.	o
c191d_057	No0057	1156+295	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	.	.	.
c191d_058	No0058	4C39.25	3mm_RDBE	o	o	o	x	o	x	o	o	o	o	o	o	o	.	.	.	o
c191d_059	No0059	4C39.25	3mm_RDBE	o	o	o	x	o	x	o	o	o	o	o	o	o	.	.	.	o
c191d_060	No0060	1156+295	3mm_RDBE	o	o	o	x	o	x	o	o	o	o	o	o	o	.	.	.	.
c191d_061	No0061	4C39.25	3mm_RDBE	o	o	o	x	o	x	o	o	o	o	87	o	o	.	.	.	o
c191d_062	No0062	4C39.25	3mm_RDBE	o	o	o	x	o	x	o	o	o	o	75	o	o	.	.	.	o
c191d_063	No0063	1156+295	3mm_RDBE	o	o	o	x	o	x	o	o	o	o	45	o	o	.	.	.	.
c191d_064	No0064	4C39.25	3mm_RDBE	o	o	o	x	o	x	o	54	o	o	o	o	o	.	.	.	o
c191d_065	No0065	4C39.25	3mm_RDBE	o	o	o	x	o	x	o	o	o	o	o	o	o	.	.	.	o
c191d_066	No0066	1156+295	3mm_RDBE	o	o	o	x	o	x	o	83	o	83	08	o	o	.	.	.	.
c191d_067	No0067	4C39.25	3mm_RDBE	o	o	o	x	o	x	o	91	o	91	o	o	o	.	.	.	o

c191d_068	No0068	4C39.25	3mm_RDBE	o	o	.	o	x	o	o	o	o	o	o	.	.	.	o	
c191d_069	No0069	1156+295	3mm_RDBE	.	o	o	x	o	x	o	83	o	83	o	o	o	.	.	o
c191d_070	No0070	4C39.25	3mm_RDBE	.	.	.	.	x	o	o	o	o	o	o	.	.	.	o	
c191d_071	No0071	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_072	No0072	4C39.25	3mm_RDBE	.	.	.	.	x	o	o	o	o	o	o	.	.	.	o	
c191d_073	No0073	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_074	No0074	1156+295	3mm_RDBE	.	.	.	.	x	o	96	o	o	23	o	o	.	.	o	
c191d_075	No0075	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_076	No0076	4C39.25	3mm_RDBE	.	.	.	.	x	o	o	o	o	o	o	.	.	.	o	
c191d_077	No0077	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_078	No0078	4C39.25	3mm_RDBE	.	.	.	.	x	o	o	o	o	o	o	.	.	.	o	
c191d_079	No0079	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_080	No0080	1156+295	3mm_RDBE	.	.	.	.	x	o	o	o	o	o	o	.	.	.	o	
c191d_081	No0081	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_082	No0082	4C39.25	3mm_RDBE	.	.	.	.	x	o	o	o	o	o	o	.	.	.	o	
c191d_083	No0083	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_084	No0084	4C39.25	3mm_RDBE	.	.	.	.	x	o	o	o	o	o	o	o	o	o	o	
c191d_085	No0085	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_086	No0086	1156+295	3mm_RDBE	.	.	.	.	x	o	o	o	o	16	o	o	.	.	o	
c191d_087	No0087	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	
c191d_088	No0088	4C39.25	3mm_RDBE	.	.	.	.	x	.	o	o	o	86	o	o	o	o	o	
c191d_089	No0089	1749+096	3mm_RDBE	o	o	o	x	o	.	o	.	.	.	.	.	.	.	.	
c191d_090	No0090	4C39.25	3mm_RDBE	.	.	.	.	x	.	43	o	o	o	o	o	93	96	96	o
c191d_091	No0091	1749+096	3mm_RDBE	o	o	o	x	o	.	o	.	.	.	.	.	.	.	.	
c191d_092	No0092	4C39.25	3mm_RDBE	.	.	.	.	x	.	o	o	o	40	o	o	96	96	96	o
c191d_093	No0093	1749+096	3mm_RDBE	o	o	o	x	o	.	o	.	.	.	.	.	.	.	.	
c191d_094	No0094	4C39.25	3mm_RDBE	.	.	.	.	x	.	o	.	o	o	o	96	96	96	o	
c191d_095	No0095	1749+096	3mm_RDBE	o	o	o	x	o	.	o	o	.	o	.	.	.	.	.	
c191d_096	No0096	1749+096	3mm_RDBE	o	o	o	x	o	x	o	o	.	o	.	o	o	.	.	
c191d_097	No0097	4C39.25	3mm_RDBE	.	.	.	.	.	.	.	o	.	o	.	.	96	o	o	o
c191d_098	No0098	1749+096	3mm_RDBE	o	o	o	x	o	x	o	83	.	83	.	o	o	.	.	.
c191d_099	No0099	4C39.25	3mm_RDBE	.	.	.	.	.	.	.	o	.	23	.	.	o	o	93	o
c191d_100	No0100	1749+096	3mm_RDBE	o	o	o	x	o	x	o	83	.	83	.	o	o	.	.	.
c191d_101	No0101	4C39.25	3mm_RDBE	.	.	.	.	.	.	.	o	.	o	.	.	o	o	96	73
c191d_102	No0102	1749+096	3mm_RDBE	o	o	o	x	o	x	o	83	o	x	o	o	.	.	.	.
c191d_103	No0103	1749+096	3mm_RDBE	o	o	o	x	o	x	o	83	83	x	66	o	o	.	.	.
c191d_104	No0104	1749+096	3mm_RDBE	o	o	o	x	o	x	o	83	83	x	20	o	o	.	.	.
c191d_105	No0105	1749+096	3mm_RDBE	o	o	o	x	.	x	o	83	83	x	33	o	o	.	.	.
c191d_106	No0106	1749+096	3mm_RDBE	o	o	o	x	.	x	o	83	83	x	o	o	.	.	.	.
c191d_107	No0107	1749+096	3mm_RDBE	o	.	o	x	.	x	o	83	79	x	08	o	o	.	.	.
c191d_108	No0108	1749+096	3mm_RDBE	o	.	o	x	.	x	o	83	79	x	33	o	o	.	.	.
c191d_109	No0109	1749+096	3mm_RDBE	o	.	o	x	.	x	o	83	79	83	o	o	o	.	.	.
c191d_110	No0110	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	75	79	o	o	o	.	.	.
c191d_111	No0111	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	75	79	o	o	o	.	.	.
c191d_112	No0112	2013+370	3mm_RDBE	o	o	o	x	o	o	o	75	16	75	o	o	o	.	.	.
c191d_113	No0113	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	79	79	o	29	o	.	.	.
c191d_114	No0114	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	20	79	79	o	o	o	.	.	.
c191d_115	No0115	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	79	79	o	o	o	.	.	.
c191d_116	No0116	2013+370	3mm_RDBE	o	o	o	x	o	o	o	75	o	75	o	o	o	.	.	o
c191d_117	No0117	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	79	79	o	o	o	.	.	.

c191d_118	No0118	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	79	79	o	o	o	.	.	.	.
c191d_119	No0119	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	79	79	o	o	o	.	.	.	.
c191d_120	No0120	2013+370	3mm_RDBE	o	o	o	x	o	o	o	75	o	75	o	o	o	.	.	.	o
c191d_121	No0121	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	79	79	o	o	o	.	.	.	.
c191d_122	No0122	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	79	79	o	o	o	.	.	.	.
c191d_123	No0123	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	37	79	o	o	o	.	.	.	.
c191d_124	No0124	2013+370	3mm_RDBE	o	o	o	x	o	o	o	87	75	87	41	o	o	.	.	.	75
c191d_125	No0125	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	83	79	83	41	o	o	.	.	.	62
c191d_126	No0126	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	83	79	83	o	o	o	.	.	.	79
c191d_127	No0127	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	83	79	83	o	o	o	.	.	.	79
c191d_128	No0128	2013+370	3mm_RDBE	o	o	o	x	o	o	o	87	75	o	o	o	o	.	.	.	75
c191d_129	No0129	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	o	o	o	o	o	.	.	.	79
c191d_130	No0130	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	83	79	83	91	o	o	.	.	.	79
c191d_131	No0131	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	83	50	83	o	o	o	.	.	.	79
c191d_132	No0132	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	87	79	87	54	o	o	.	.	.	79
c191d_133	No0133	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	83	83	83	25	o	o	.	.	.	83
c191d_134	No0134	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	83	83	83	29	o	o	.	.	.	83
c191d_135	No0135	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	79	83	79	83	o	o	.	.	.	83
c191d_136	No0136	BLLAC	3mm_RDBE	o	o	o	.	o	o	16	83	90	83	43	o	o	.	.	.	90
c191d_137	No0137	2013+370	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.	o
c191d_138	No0138	3C84	3mm_RDBE	o	o	o	x	o	x	o	o	o	o	08	o	o	.	.	.	.
c191d_139	No0139	3C84	3mm_RDBE	o	o	o	x	o	x	o	29	70	70	o	o	o	.	.	.	.
c191d_140	No0140	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	58	o	o	.	.	.	.
c191d_141	No0141	3C84	3mm_RDBE	o	o	o	x	o	x	16	70	70	70	16	o	o	.	.	.	.
c191d_142	No0142	3C84	3mm_RDBE	o	o	o	x	o	x	o	29	70	70	41	o	o	.	.	.	.
c191d_143	No0143	3C84	3mm_RDBE	o	o	o	x	o	x	o	12	70	70	04	o	o	.	.	.	.
c191d_144	No0144	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	o	70	o	o	o	.	.	.	o
c191d_145	No0145	3C84	3mm_RDBE	o	o	o	x	o	x	o	04	o	70	33	o	o	.	.	.	o
c191d_146	No0146	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	o	70	o	o	o	.	.	.	o
c191d_147	No0147	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	o	70	62	o	o	.	.	.	o
c191d_148	No0148	3C84	3mm_RDBE	o	o	o	x	o	x	o	45	70	70	o	o	o	.	.	.	70
c191d_149	No0149	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	o	o	o	.	.	.	70
c191d_150	No0150	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	83	o	o	.	.	.	70
c191d_151	No0151	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	29	o	o	.	.	.	70
c191d_152	No0152	3C84	3mm_RDBE	o	o	o	x	o	x	o	08	70	70	04	o	o	.	.	.	70
c191d_153	No0153	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	70	16	87	o	o	.	.	.	70
c191d_154	No0154	3C84	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	12	o	o	.	.	.	70
c191d_155	No0155	3C84	3mm_RDBE	o	o	o	x	o	x	o	37	70	70	50	o	o	.	.	.	70
c191d_156	No0156	3C84	3mm_RDBE	o	o	o	x	o	x	91	70	70	70	62	o	o	.	.	.	70
c191d_157	No0157	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.
c191d_158	No0158	3C84	3mm_RDBE	.	.	.	.	x	o	75	75	70	29	o	o	.	.	.	75	
c191d_159	No0159	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.
c191d_160	No0160	3C84	3mm_RDBE	.	.	.	.	x	o	66	75	70	66	o	o	.	.	.	75	
c191d_161	No0161	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.
c191d_162	No0162	3C84	3mm_RDBE	.	.	.	.	x	o	33	80	76	33	o	o	.	.	.	80	
c191d_163	No0163	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.
c191d_164	No0164	3C84	3mm_RDBE	.	.	.	.	x	o	80	80	76	46	o	o	.	.	.	80	
c191d_165	No0165	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.
c191d_166	No0166	3C84	3mm_RDBE	.	.	.	.	x	o	80	80	76	23	o	o	.	.	.	80	
c191d_167	No0167	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.



c191d_168	No0168	3C84	3mm_RDBE	.	.	.	.	.	x	50	80	80	76	50	o	o	.	.	.	80
c191d_169	No0169	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.
c191d_170	No0170	3C84	3mm_RDBE	.	.	.	.	.	x	o	16	80	76	40	o	o	.	.	.	80
c191d_171	No0171	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.
c191d_172	No0172	3C84	3mm_RDBE	.	.	.	.	.	x	o	80	80	76	10	o	o	o	o	o	80
c191d_173	No0173	1055+018	3mm_RDBE	o	o	o	x	o	.	o	.	.	.	.	.	.	.	.	.	.
c191d_174	No0174	3C84	3mm_RDBE	.	.	.	.	.	x	.	80	70	76	13	o	o	o	o	o	80
c191d_175	No0175	1055+018	3mm_RDBE	o	o	o	x	o	.	o	.	.	.	.	.	.	.	.	.	.
c191d_176	No0176	3C84	3mm_RDBE	.	.	.	.	.	x	.	80	80	80	06	o	o	o	o	o	80
c191d_177	No0177	1055+018	3mm_RDBE	o	o	o	x	o	.	o	o	.	.	.	.	.	.	.	.	.
c191d_178	No0178	3C84	3mm_RDBE	.	.	.	.	.	x	.	80	76	06	o	o	o	o	o	o	80
c191d_179	No0179	1055+018	3mm_RDBE	o	o	o	x	o	.	45	66	.	.	.	.	.	.	.	.	.
c191d_180	No0180	3C84	3mm_RDBE	.	.	.	.	.	x	.	80	76	20	o	o	o	o	o	o	80
c191d_181	No0181	1055+018	3mm_RDBE	o	o	o	x	.	.	o	o	.	o	.	o	o	.	.	.	.
c191d_182	No0182	3C84	3mm_RDBE	.	.	.	.	.	x	.	13	.	03	.	.	o	o	o	o	76
c191d_183	No0183	1055+018	3mm_RDBE	o	o	o	x	.	.	o	o	.	o	.	87	o	.	.	.	.
c191d_184	No0184	3C84	3mm_RDBE	.	.	.	.	.	x	.	43	.	46	.	.	o	o	o	o	76
c191d_185	No0185	1055+018	3mm_RDBE	o	o	o	x	.	.	70	o	.	o	.	o	o	.	.	.	.
c191d_186	No0186	3C84	3mm_RDBE	.	.	.	.	.	x	.	76	.	66	.	.	o	o	o	o	80
c191d_187	No0187	1055+018	3mm_RDBE	o	o	o	x	.	.	o	o	o	o	25	o	o	.	.	.	.
c191d_188	No0188	1055+018	3mm_RDBE	o	.	o	x	.	.	o	08	o	o	58	o	o	.	.	.	.
c191d_189	No0189	0716+714	3mm_RDBE	.	o	.	.	o	x	.	.	.	.	.	.	.	o	o	o	90
c191d_190	No0190	1055+018	3mm_RDBE	.	.	o	x	.	.	o	20	o	o	37	o	o	.	.	.	.
c191d_191	No0191	0716+714	3mm_RDBE	o	o	.	.	o	x	.	.	.	.	.	.	.	o	o	o	o
c191d_192	No0192	1055+018	3mm_RDBE	.	.	o	x	.	.	o	o	o	o	04	o	o	.	.	.	.
c191d_193	No0193	0716+714	3mm_RDBE	o	o	.	.	o	x	.	.	.	.	.	.	.	o	o	o	83
c191d_194	No0194	1055+018	3mm_RDBE	.	.	o	x	.	.	o	41	o	79	29	o	o	.	.	.	.
c191d_195	No0195	0716+714	3mm_RDBE	o	o	.	.	o	x	.	.	.	.	.	.	.	o	o	o	79
c191d_196	No0196	1055+018	3mm_RDBE	.	.	.	.	.	.	o	16	o	83	26	o	o	.	.	.	.
c191d_197	No0197	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	83
c191d_198	No0198	1055+018	3mm_RDBE	.	.	.	.	.	.	36	o	o	o	10	o	o	.	.	.	.
c191d_199	No0199	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	83
c191d_200	No0200	1055+018	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	23	o	o	.	.	.	o
c191d_201	No0201	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.
c191d_202	No0202	1055+018	3mm_RDBE	.	.	.	.	.	.	46	o	o	o	10	o	o	.	.	.	o
c191d_203	No0203	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.
c191d_204	No0204	1055+018	3mm_RDBE	.	.	.	.	.	.	o	53	o	o	60	o	o	.	.	.	o
c191d_205	No0205	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.
c191d_206	No0206	1055+018	3mm_RDBE	.	.	.	.	.	.	90	o	33	o	40	o	o	.	.	.	o
c191d_207	No0207	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.
c191d_208	No0208	1055+018	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	16	o	o	.	.	.	o
c191d_209	No0209	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.
c191d_210	No0210	1055+018	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	06	o	o	.	.	.	o
c191d_211	No0211	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.
c191d_212	No0212	1055+018	3mm_RDBE	.	.	.	.	.	.	o	43	o	o	40	o	o	.	.	.	o
c191d_213	No0213	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.
c191d_214	No0214	1055+018	3mm_RDBE	.	.	.	.	.	.	o	70	o	o	13	o	o	.	.	.	o
c191d_215	No0215	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.
c191d_216	No0216	1055+018	3mm_RDBE	.	.	.	.	.	.	o	40	o	o	06	o	o	.	.	.	o
c191d_217	No0217	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.

c191d_218	No0218	1055+018	3mm_RDBE	.	.	.	.	.	.	.	o	13	o	o	06	o	o	.	.	.	o
c191d_219	No0219	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	.	o	o	o	.
c191d_220	No0220	1055+018	3mm_RDBE	.	.	.	.	.	.	.	o	56	o	o	03	o	o	.	.	.	o
c191d_221	No0221	0716+714	3mm_RDBE	o	o	o	x	o	x	.	.	.	.	.	.	.	o	o	o	.	.
c191d_222	No0222	3C345	3mm_RDBE	o	o	o	x	o	x	o	83	o	o	04	o	o	.	.	.	.	.
c191d_223	No0223	1633+38	3mm_RDBE	o	o	o	x	o	x	o	12	70	70	54	54	o	.	.	.	.	.
c191d_224	No0224	3C345	3mm_RDBE	o	o	o	x	o	x	o	16	70	70	16	o	o	.	.	.	.	.
c191d_225	No0225	1633+38	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	08	o	o	.	.	.	.	.
c191d_226	No0226	3C345	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	16	o	o	.	.	.	.	.
c191d_227	No0227	1633+38	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	12	o	o	.	.	.	.	.
c191d_228	No0228	3C345	3mm_RDBE	o	o	o	x	o	x	o	04	70	70	41	o	o	.	.	.	.	.
c191d_229	No0229	1633+38	3mm_RDBE	o	o	o	x	o	x	o	41	87	70	12	o	66	.	.	.	.	87
c191d_230	No0230	3C345	3mm_RDBE	o	o	o	x	o	x	o	16	o	70	33	o	o	.	.	.	.	o
c191d_231	No0231	1633+38	3mm_RDBE	o	o	o	x	o	x	o	70	o	62	37	o	o	.	.	.	.	91
c191d_232	No0232	3C345	3mm_RDBE	o	o	o	x	o	x	o	70	66	x	12	o	o	.	.	.	.	x
c191d_233	No0233	1633+38	3mm_RDBE	o	o	o	x	o	x	o	75	70	x	16	o	o	.	.	.	.	x
c191d_234	No0234	3C345	3mm_RDBE	o	o	o	x	o	x	o	70	70	x	08	o	o	.	.	.	.	x
c191d_235	No0235	1633+38	3mm_RDBE	o	o	o	x	o	x	o	75	70	x	45	o	o	.	.	.	.	x
c191d_236	No0236	3C345	3mm_RDBE	o	o	o	x	o	x	o	70	70	x	37	o	o	.	.	.	.	x
c191d_237	No0237	1633+38	3mm_RDBE	o	o	o	x	o	x	o	75	70	x	33	o	o	.	.	.	.	x
c191d_238	No0238	3C345	3mm_RDBE	o	o	o	x	o	x	o	70	70	x	41	o	o	.	.	.	.	x
c191d_239	No0239	1633+38	3mm_RDBE	o	o	o	x	o	x	o	70	70	x	66	o	o	.	.	.	.	x
c191d_240	No0240	3C345	3mm_RDBE	o	o	o	x	o	x	o	70	70	x	o	o	o	.	.	.	.	x
c191d_241	No0241	1633+38	3mm_RDBE	.	o	.	.	o	x	o	80	76	80	20	o	o	.	.	.	.	76
c191d_242	No0242	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	.	.	.	.	.	.	.	.	.	.	.
c191d_243	No0243	3C345	3mm_RDBE	.	.	.	.	.	.	.	80	80	76	06	o	o	.	.	.	.	80
c191d_244	No0244	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	.	.	.	.	.	.	.	.	.	.	.
c191d_245	No0245	1633+38	3mm_RDBE	.	.	.	.	.	.	.	o	80	o	13	o	o	.	.	.	.	80
c191d_246	No0246	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	.	.	.	.	.	.	.	.	.	.	.
c191d_247	No0247	3C345	3mm_RDBE	.	.	.	.	.	.	.	80	80	76	13	o	o	.	.	.	.	80
c191d_248	No0248	CTA102	3mm_RDBE	o	o	o	x	o	x	o	o	.	.	.	.	.	.	.	.	.	.
c191d_249	No0249	1633+38	3mm_RDBE	.	.	.	.	.	.	.	o	76	03	o	o	.	.	.	.	.	o
c191d_250	No0250	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	o	.	o	.	.	o	.	.	.	.	.
c191d_251	No0251	3C345	3mm_RDBE	.	.	.	.	.	.	.	.	76	.	06	o	.	.	.	.	.	80
c191d_252	No0252	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	o	.	o	.	o	o	.	.	.	.	.
c191d_253	No0253	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	04	87	70	12	o	o	.	.	.	.	.
c191d_254	No0254	CTA102	3mm_RDBE	o	o	o	x	o	x	o	25	70	70	16	o	91	.	.	.	.	.
c191d_255	No0255	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	33	70	70	04	o	o	.	.	.	.	.
c191d_256	No0256	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	12	70	70	04	o	o	.	.	.	.	.
c191d_257	No0257	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	04	o	o	.	.	.	.	.
c191d_258	No0258	CTA102	3mm_RDBE	o	o	o	x	.	x	o	70	70	75	08	o	o	.	.	.	.	.
c191d_259	No0259	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	25	o	o	.	.	.	.	.
c191d_260	No0260	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	04	o	o	.	.	.	.	.
c191d_261	No0261	3C454.3	3mm_RDBE	o	o	o	x	o	x	o	70	70	70	20	o	o	.	.	.	.	.
c191d_262	No0262	3C454.3	3mm_RDBE	o	o	o	x	.	x	o	70	o	70	20	o	o	.	.	.	.	o
c191d_263	No0263	3C454.3	3mm_RDBE	o	.	o	x	.	x	o	30	83	76	16	o	o	.	.	.	.	o
c191d_264	No0264	3C454.3	3mm_RDBE	.	.	o	x	.	x	o	56	o	76	06	o	o	.	.	.	.	o
c191d_265	No0265	CTA102	3mm_RDBE	.	.	.	.	.	x	o	56	76	o	10	o	o	.	.	.	.	76
c191d_266	No0266	0420-014	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c191d_267	No0267	3C454.3	3mm_RDBE	.	.	.	.	.	x	o	80	60	76	x	o	o	.	.	.	.	80

