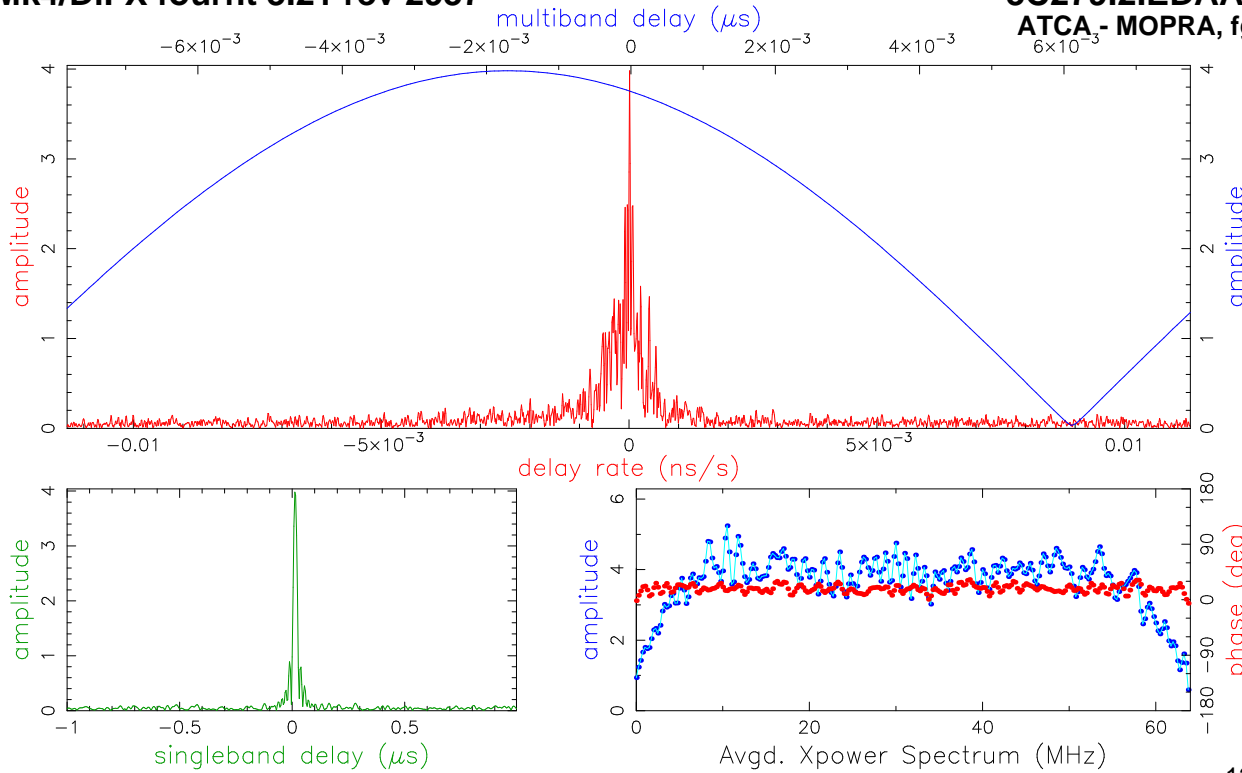


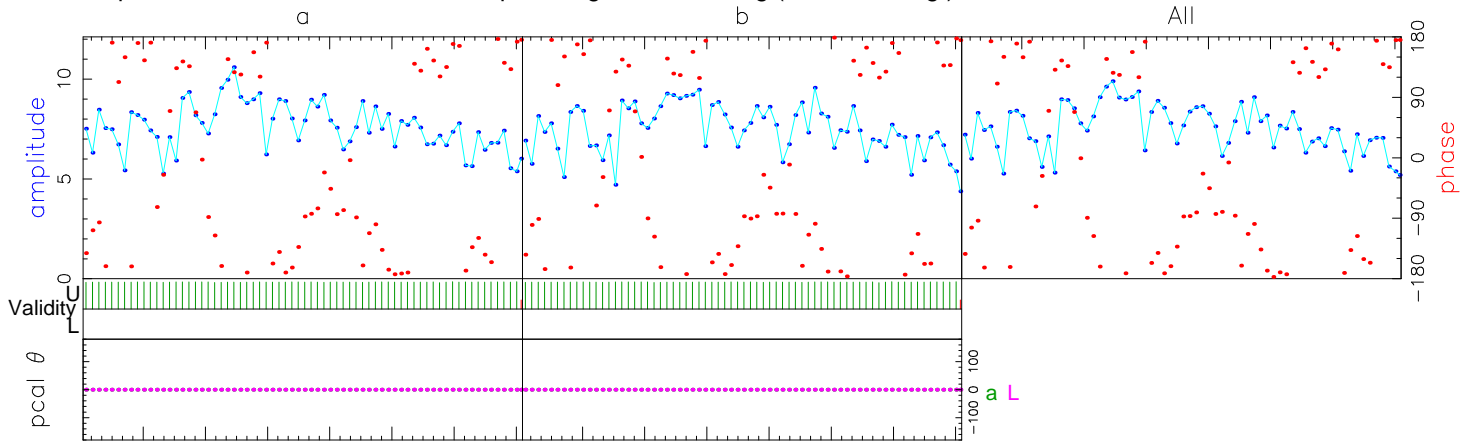
Mk4/DiFX fourfit 3.21 rev 2937

3C279.2IEDAA, No0205, aL
ATCA - MOPRA, fgroup W, pol LX



Fringe quality 5
SNR 112.0
Int time 411.022
Amp 4.041
Phase -169.6
PFD 0.0e+00
Delays (us)
SBD 0.013316
MBD -0.001669
Fringe rate (Hz)
0.001204
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 150002.00
Stop 150701.84
FRT 150332.00
Corr/FF/build
2022:353:162037
2022:354:003053
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 69 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec

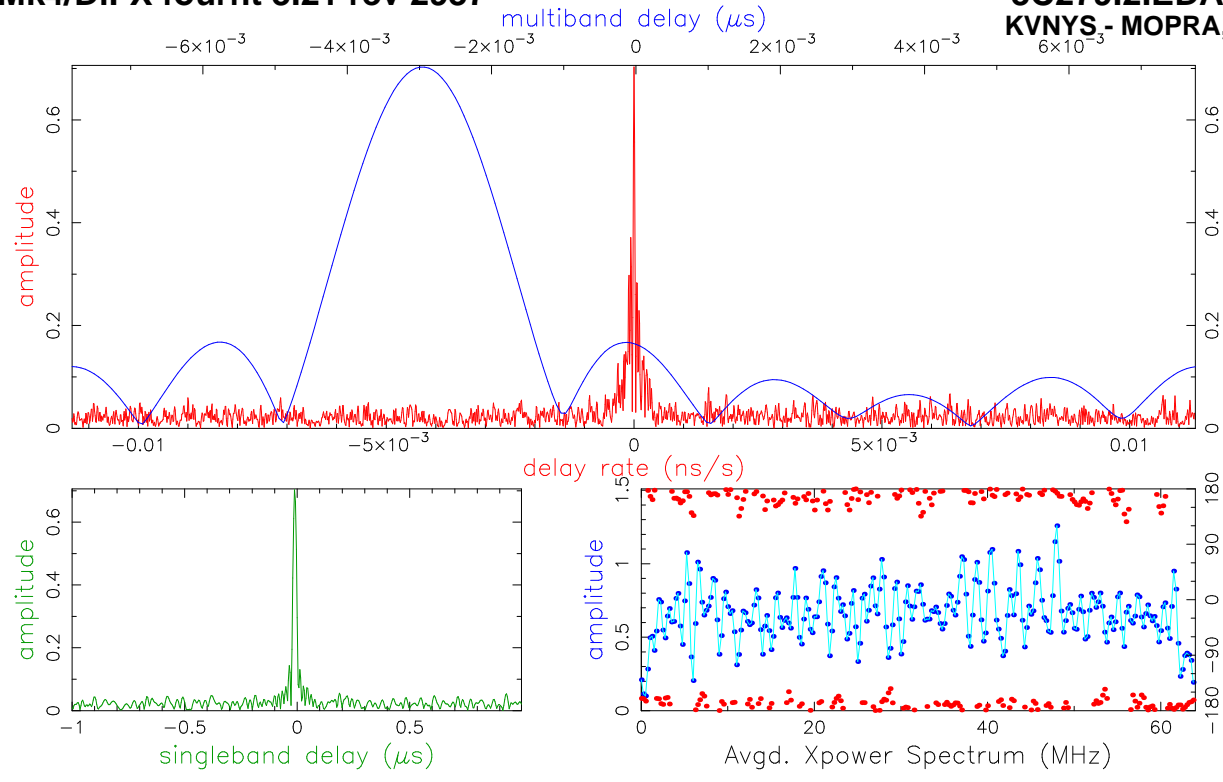


86012.00	86076.00	Freq (MHz)	All				
-169.3	-170.0	Phase	-169.6				
4.0	3.9	Ampl.	4.0				
260.0	260.8	Sbd box	260.4				
U/L 820/0	820/0	APs used					
a 0	0	PC freqs					
L 0	0	PC freqs					
a:L 0:0	0:0	PC phase					
a:L 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
L 1000	1000						
a W00UL	W01UL	Chan ids					
L W00UX	W01UX	Tracks					
		Chan ids					
		Tracks					
Group delay (usec)(sbd)	7.09671510867E+01	Apriori delay (usec)	7.09531953896E+01	Resid mbdelay (usec)	-1.66930E-03	+/-	4.4E-05
Sband delay (usec)	7.09665111396E+01	Apriori clock (usec)	-3.7933807E+01	Resid sbdelay (usec)	1.33158E-02	+/-	7.7E-05
Phase delay (usec)	7.09531899192E+01	Apriori clockrate (us/s)	4.3690000E-07	Resid phdelay (usec)	-5.47038E-06	+/-	3.3E-08
Delay rate (us/s)	-1.35935061325E-02	Apriori rate (us/s)	-1.35935201145E-02	Resid rate (us/s)	1.39820E-08	+/-	1.4E-10
Total phase (deg)	-79.3	Apriori accel (us/s/s)	-7.45716083739E-07	Resid phase (deg)	-169.6	+/-	1.0

ph/seg (deg) 65.5 4.2 Amplitude 4.041 +/- 0.036 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 91.7 7.4 Search (2048X8) 3.892 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 1.7 1.3 Inc. seg. avg. 7.548 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
a: az 332.5 el 63.0 pa 156.4 L: az 334.2 el 62.4 pa 157.9 u,v (fr/asec) 77.419 132.608 Data rate(Mb/s): 512 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c221c/v1/3mm/3000/No0205/aL..2IEDAA Output file: /Exps/c221c/v1/3mm/3000/No0205/aL.W.16.2IEDAA simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

3C279.2IEDAA, No0205, yL
KVNS₃- MOPRA, fgroup W, pol LX

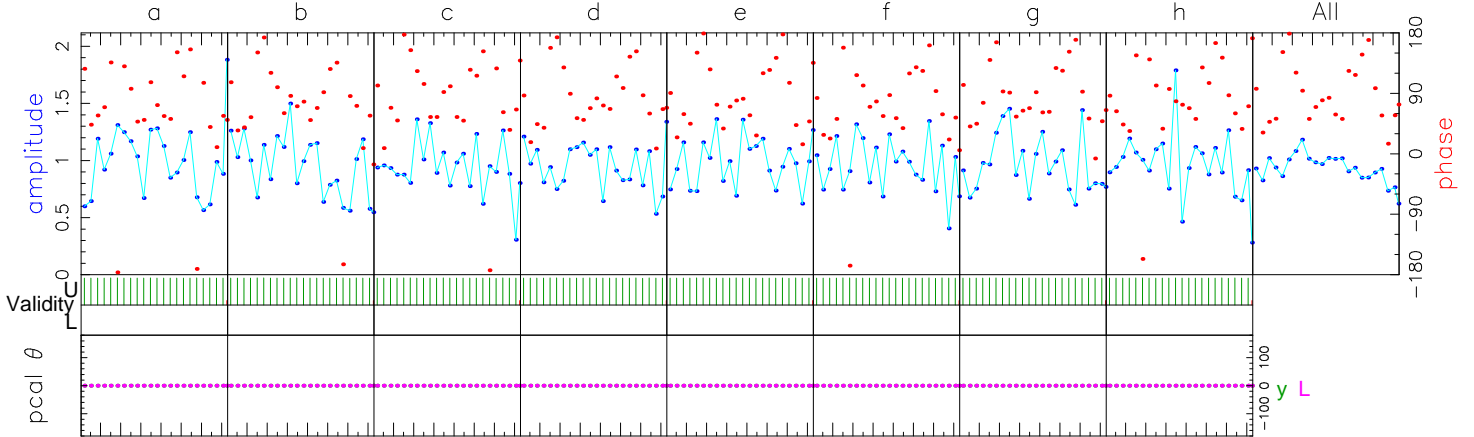


Fringe quality 8

SNR 39.1
Int time 411.021
Amp 0.706
Phase 86.5
PFD 0.0e+00
Delays (us)
SBD -0.010883
MBD -0.002955
Fringe rate (Hz)
-0.000336
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

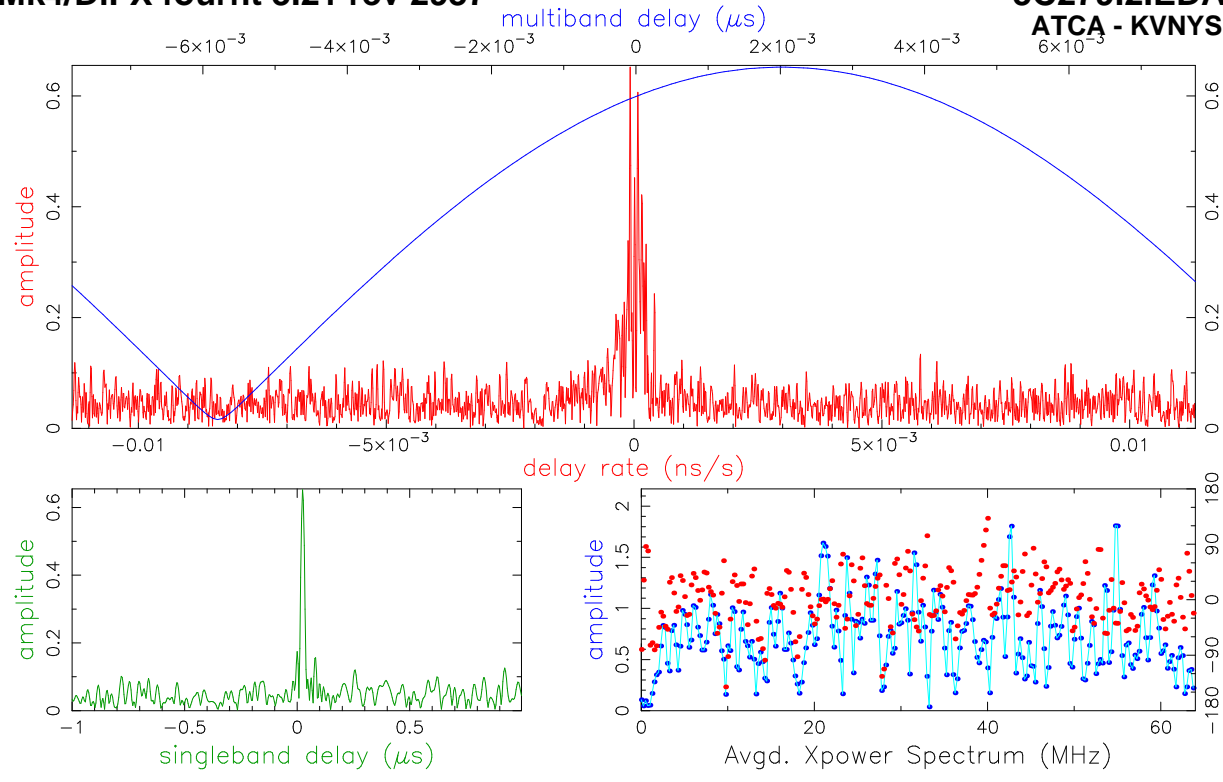
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 150002.00
Stop 150701.84
FRT 150332.00
Corr/FF/build
2022:353:162037
2022:354:003033
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	92.6	81.6	90.9	82.0	83.4	85.4	88.1	88.7	Phase	86.5
	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	Ampl.	0.7
	254.1	254.4	254.2	254.0	254.3	254.1	254.2	254.3	Sbd box	254.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
y:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W00UX	W01UX	W02UX	W03UX	W04UX	W05UX	W06UX	W07UX	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.56721542205E+03		Apriori delay (usec)		-3.56719684177E+03		Resid mbdelay (usec)		-2.95528E-03	+/- 2.8E-05
Sband delay (usec)	-3.56720772527E+03		Apriori clock (usec)		3.9011040E+00		Resid sbdelay (usec)		-1.08835E-02	+/- 2.2E-04
Phase delay (usec)	-3.56719683898E+03		Apriori clockrate (us/s)		5.0000000E-07		Resid phdelay (usec)		2.79078E-06	+/- 9.4E-08
Delay rate (us/s)	4.91374143407E-01		Apriori rate (us/s)		4.91374147307E-01		Resid rate (us/s)		-3.89990E-09	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		5.91339644789E-06		Resid phase (deg)		86.5	+/- 2.9

ph/seg (deg) 44.1 7.0 Search (2048X32) 0.683 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 36.4 12.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 4.5 4.1 Inc. seg. avg. 0.934 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 3.7 7.2 Inc. frq. avg. 0.703 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
y: az 165.1 el 45.4 pa -10.9 L: az 334.2 el 62.4 pa 157.9 u,v (fr/asec) -2816.579 9868.722 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/v1/3mm/3000/No0205/yL..2IEDAA Output file: /Exps/c221c/v1/3mm/3000/No0205/yL.W.2.2IEDAA

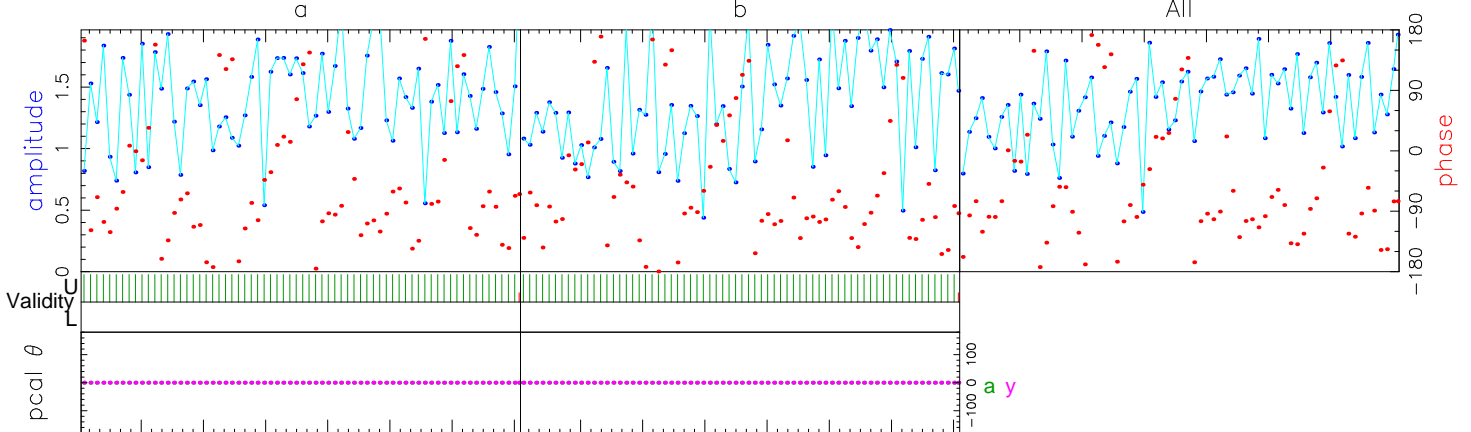


Fringe quality 9

SNR 18.4
Int time 419.825
Amp 0.655
Phase -99.0
PFD 0.0e+00
Delays (us)
SBD 0.024354
MBD 0.002049
Fringe rate (Hz)
-0.006316
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 150002.00
Stop 150701.84
FRT 150332.00
Corr/FF/build
2022:353:162037
2022:354:003051
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 69 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



86012.00	86076.00	Freq (MHz)	All				
-98.7	-99.4	Phase	-99.0				
0.6	0.7	Ampl.	0.6				
262.9	263.6	Sbd box	263.2				
U/L 820/0	820/0	APs used					
a 0	0	PC freqs					
y 0	0	PC freqs					
a:y 0:0	0:0	PC phase					
a:y 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
y 1000	1000						
a W00UL	W01UL	Chan ids					
y W00UL	W01UL	Tracks					
		Chan ids					
		Tracks					
Group delay (usec)(sbd)	3.63816771128E+03	Apriori delay (usec)	3.63815003716E+03	Resid mbdelay (usec)	2.04912E-03	+/-	2.7E-04
Sband delay (usec)	3.63817439066E+03	Apriori clock (usec)	-4.1834915E+01	Resid sbdelay (usec)	2.43535E-02	+/-	4.7E-04
Phase delay (usec)	3.63815003396E+03	Apriori clockrate (us/s)	-6.3099997E-08	Resid phdelay (usec)	-3.19352E-06	+/-	2.0E-07
Delay rate (us/s)	-5.04967740742E-01	Apriori rate (us/s)	-5.04967667422E-01	Resid rate (us/s)	-7.33201E-08	+/-	8.3E-10
Total phase (deg)	-26.8	Apriori accel (us/s/s)	-6.65911253163E-06	Resid phase (deg)	-99.0	+/-	6.2

ph/seg (deg) RMS Theor. Amplitude 0.655 +/- 0.036 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.4 25.9 Search (2048X8) 0.622 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 117.3 45.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 4.4 Inc. seg. avg. 1.234 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 2.5 7.7 Inc. frq. avg. 0.650 Data rate(Mb/s): 512 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

a: az 332.5 el 63.0 pa 156.4 y: az 165.1 el 45.4 pa -10.9 u,v (fr/asec) 2893.997 -9736.115 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/v1/3mm/3000/No0205/ay..2IEDAA Output file: /Exps/c221c/v1/3mm/3000/No0205/ay.W.11.2IEDAA