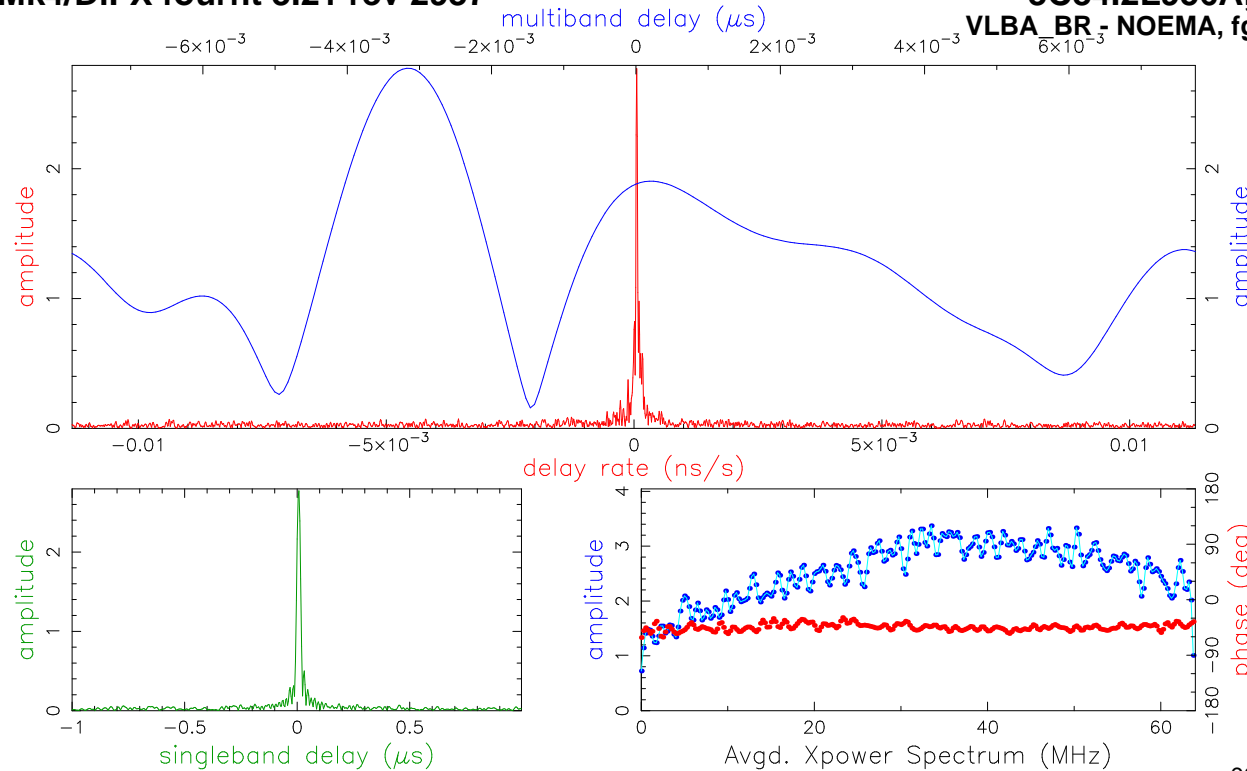


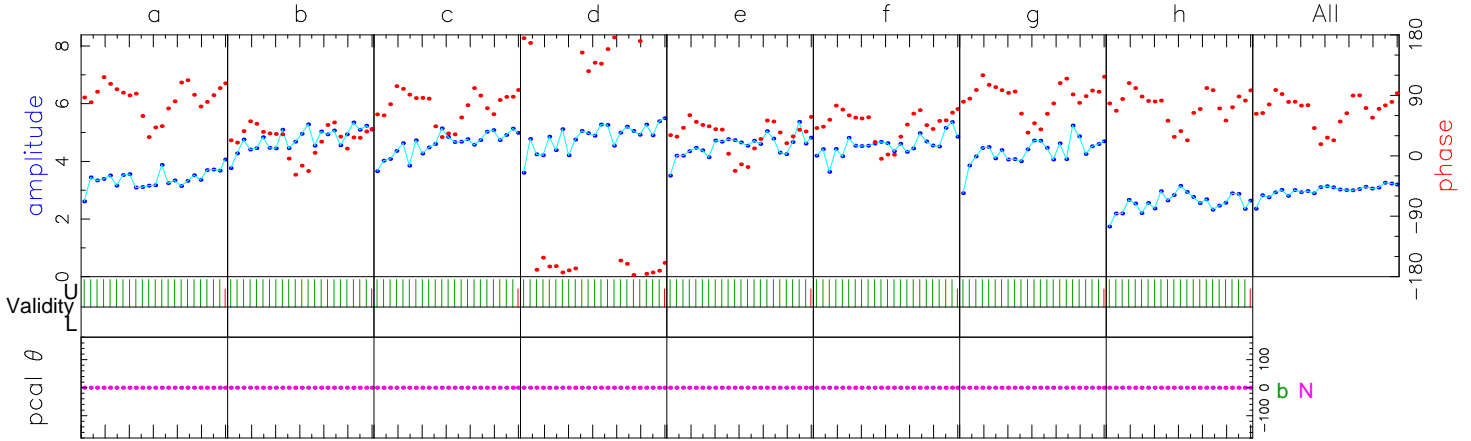
Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, bN  
VLBA\_BR - NOEMA, fgroup W, pol RR



Fringe quality 4  
SNR 145.0  
Int time 359.512  
Amp 2.796  
Phase 67.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.006586  
MBD -0.003199  
Fringe rate (Hz) 0.004366  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130518  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

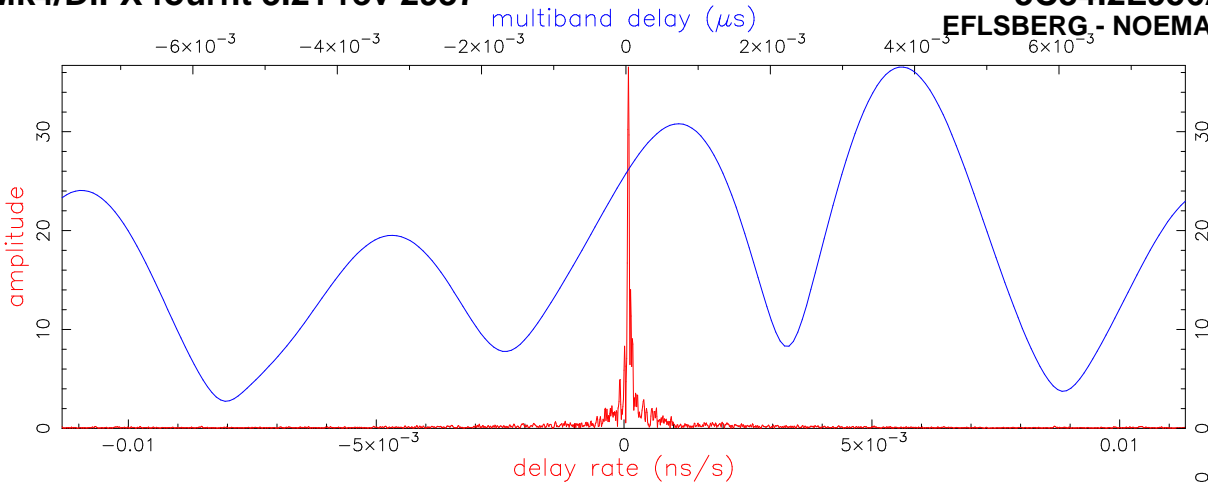


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	85.2	23.3	73.6	178.4	29.9	46.4	86.6	73.2	Phase	67.4
	3.1	4.4	4.3	4.5	4.2	4.2	4.0	2.4	Ampl.	3.9
	257.1	259.2	259.5	259.3	259.6	259.3	258.5	256.7	Sbd box	258.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -1.98656503708E+02 Apriori delay (usec) -1.98668930002E+02 Resid mbdelay (usec) -3.19871E-03 +/- 7.5E-06  
 Sband delay (usec) -1.98662343502E+02 Apriori clock (usec) 1.1861453E+01 Resid sbdelay (usec) 6.58650E-03 +/- 5.9E-05  
 Phase delay (usec) -1.98668927828E+02 Apriori clockrate (us/s) -3.3918999E-07 Resid phdelay (usec) 2.17400E-06 +/- 2.5E-08  
 Delay rate (us/s) 1.42486393737E+00 Apriori rate (us/s) 1.42486388669E+00 Resid rate (us/s) 5.06796E-08 +/- 1.2E-10  
 Total phase (deg) -159.5 Apriori accel (us/s/s) 4.25714325303E-06 Resid phase (deg) 67.4 +/- 0.8

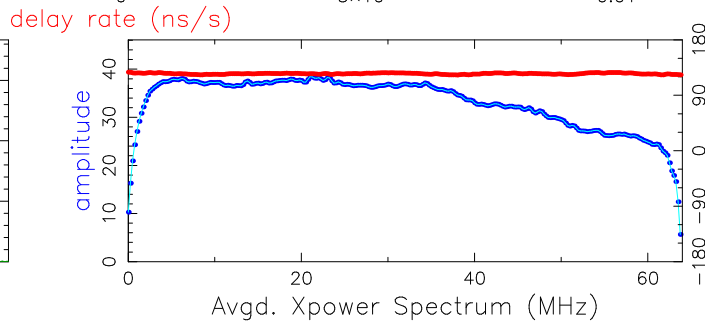
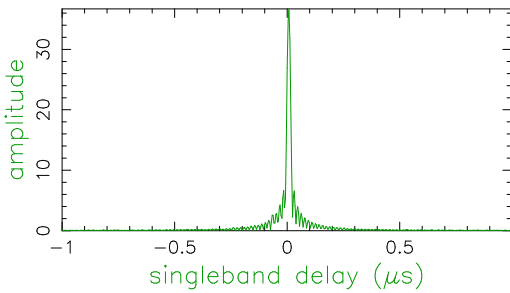
RMS Theor. Amplitude 2.796 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 22.0 1.9 Search (2048X32) 2.602 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 9.6 3.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 53.0 1.1 Inc. seg. avg. 2.989 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 46.2 2.0 Inc. frq. avg. 3.883 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

b: az 72.9 el 44.7 pa -58.5 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -10902.613 676.149 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/bN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/bN.W.11.2L956A



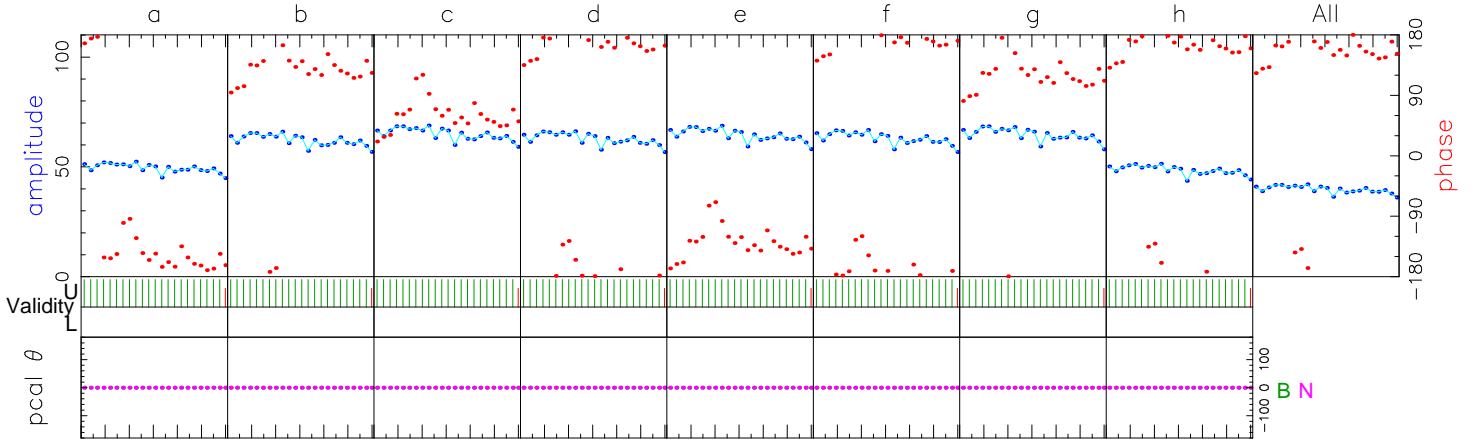
Fringe quality 3

SNR 1904.5  
Int time 359.888  
Amp 36.713  
Phase 162.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.006934  
MBD 0.003789  
Fringe rate (Hz) 0.007994  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512



Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130541  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

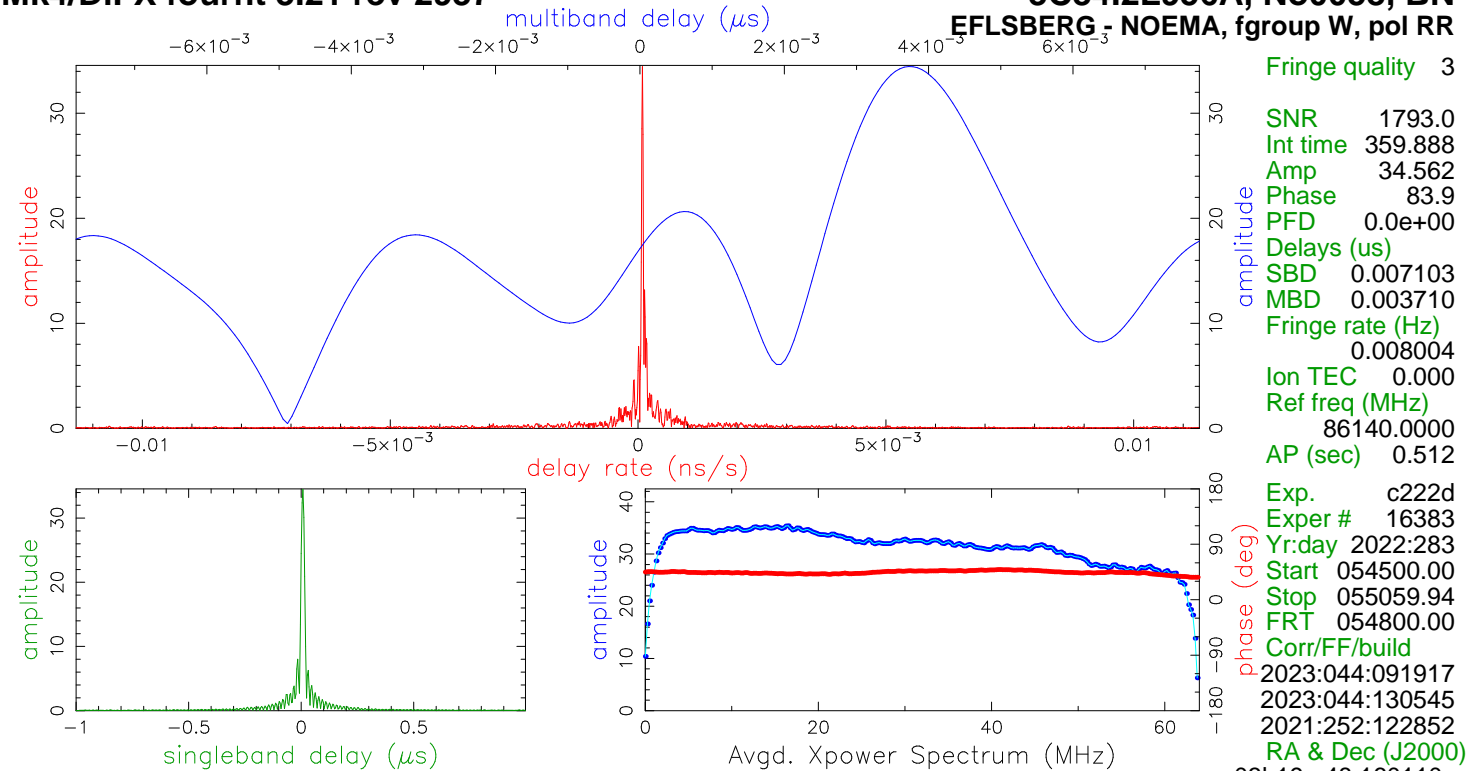


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-153.1	133.5	61.0	173.9	-128.4	-179.1	121.4	170.1	Phase	162.0
	45.5	57.2	59.7	57.7	59.3	57.9	59.4	44.6	Ampl.	55.2
	257.3	258.3	259.3	259.3	259.5	259.3	258.9	257.7	Sbd box	258.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

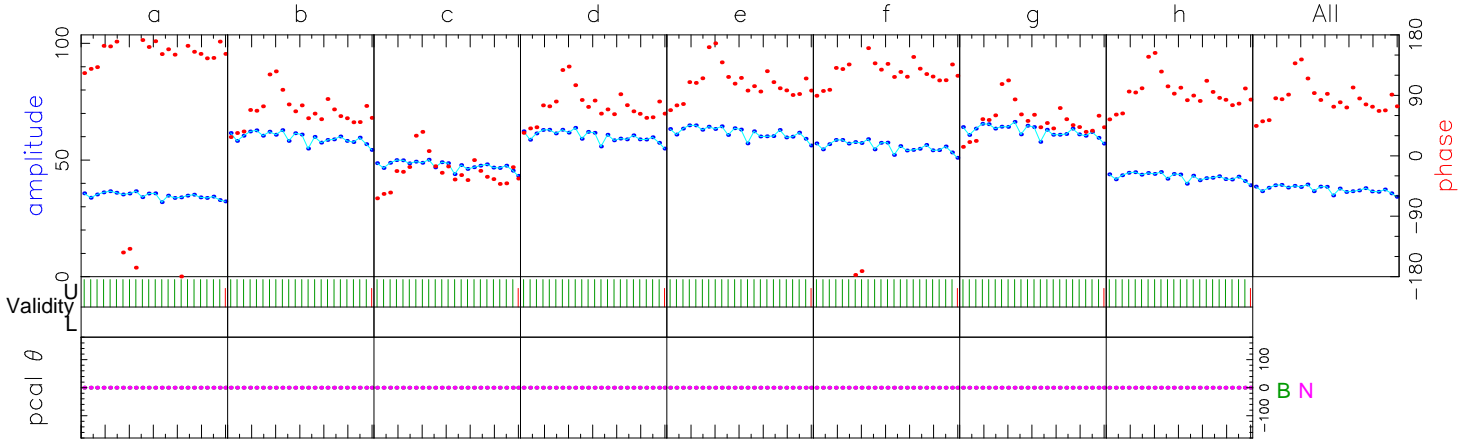
Group delay (usec)(sbd)	2.27539055169E+02	Apriori delay (usec)	2.27535265843E+02	Resid mbdelay (usec)	3.78933E-03	+/-	5.7E-07
Sband delay (usec)	2.2754220093E+02	Apriori clock (usec)	-1.5400979E+01	Resid sbdelay (usec)	6.93425E-03	+/-	4.5E-06
Phase delay (usec)	2.27535271068E+02	Apriori clockrate (us/s)	2.2999999E-08	Resid phdelay (usec)	5.22504E-06	+/-	1.9E-09
Delay rate (us/s)	7.14999763224E-02	Apriori rate (us/s)	7.14998835155E-02	Resid rate (us/s)	9.28069E-08	+/-	9.3E-12
Total phase (deg)	89.9	Apriori accel (us/s/s)	3.89008766940E-06	Resid phase (deg)	162.0	+/-	0.1

ph/seg (deg)	23.5	RMS	23.5	Theor.	0.1	Amplitude	36.713 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	9.4	0.3	Search (2048X32)	35.291	Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
ph/frq (deg)	57.9	0.1	Inc. seg. avg.	39.796	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	52.8	0.1	Inc. frq. avg.	55.171	Sample rate(MISamp/s):	128		dr window (ns/s)	-0.011	0.011	
					Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 282.5 el 47.8 pa 56.1 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -541.966 734.707 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/BN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/BN.W.118.2L956A



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

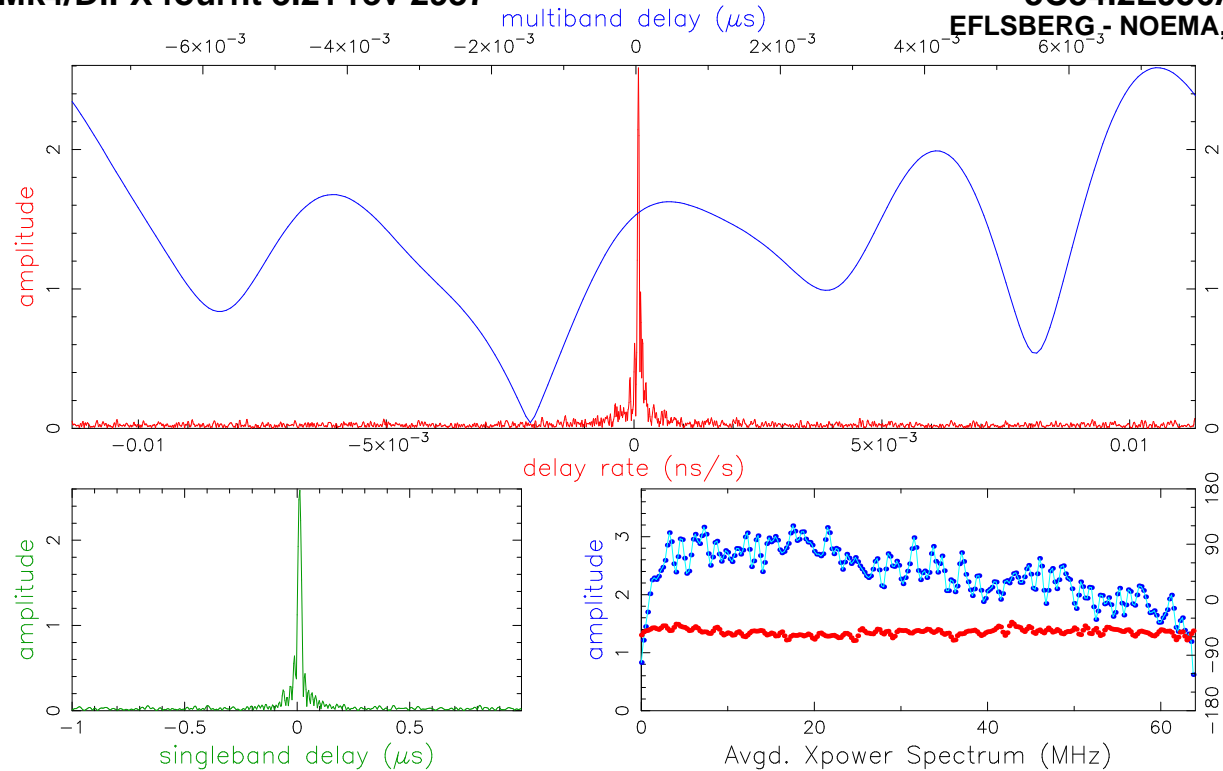


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
162.4	66.9	-24.1	73.6	107.9	128.8	52.9	93.7	93.7	Phase	83.9
31.9	54.7	43.8	55.3	56.7	51.3	57.4	39.3	39.3	Ampl.	48.8
256.4	258.4	259.1	259.0	259.3	259.1	258.9	257.4	257.4	Sbd box	258.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.27538976075E+02		Apriori delay (usec)		2.27535265843E+02		Resid mbdelay (usec)	3.71023E-03	+/-	6.1E-07
Sband delay (usec)	2.27542368343E+02		Apriori clock (usec)		-1.5400979E+01		Resid sbdelay (usec)	7.10250E-03	+/-	4.8E-06
Phase delay (usec)	2.27535268549E+02		Apriori clockrate (us/s)		2.2999999E-08		Resid phdelay (usec)	2.70671E-06	+/-	2.1E-09
Delay rate (us/s)	7.14999764294E-02		Apriori rate (us/s)		7.14998835155E-02		Resid rate (us/s)	9.29139E-08	+/-	9.9E-12
Total phase (deg)		11.8	Apriori accel (us/s/s)		3.89008766940E-06		Resid phase (deg)	83.9	+/-	0.1

	RMS	Theor.	Amplitude	34.562 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	23.6	0.2	Search (2048X32)	33.023	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	9.4	0.3	Interp.	0.000	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	60.4	0.1	Inc. seg. avg.	37.527	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	48.4	0.2	Inc. frq. avg.	48.809	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

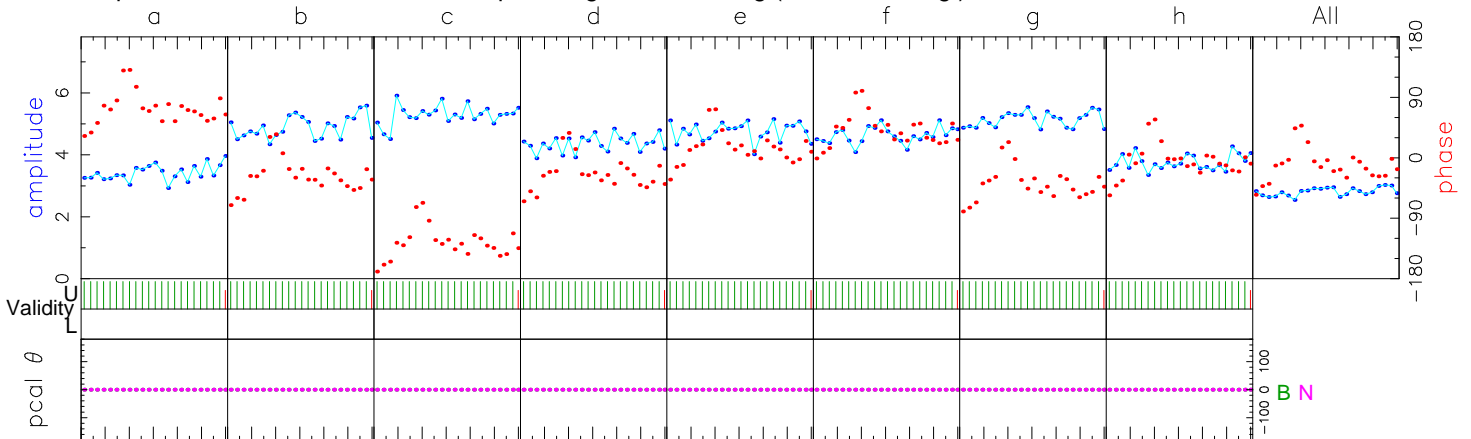
Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, BN  
EFLSBERG - NOEMA, fgroup W, pol LR



Fringe quality 3  
 SNR 135.1  
 Int time 359.888  
 Amp 2.604  
 Phase -11.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.010674  
 MBD 0.007194  
 Fringe rate (Hz) 0.007990  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. c222d  
 Exper # 16383  
 Yr:day 2022:283  
 Start 054500.00  
 Stop 055059.94  
 FRT 054800.00  
 Corr/FF/build  
 2023:044:091917  
 2023:044:130549  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160110s  
 +41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	72.4	-27.8	-126.4	-24.4	13.4	40.5	-38.7	-5.5	Phase	-11.6
	3.1	4.5	4.9	4.0	4.4	4.2	4.7	3.4	Ampl.	4.2
	257.7	259.1	259.7	260.2	260.1	259.7	259.6	258.7	Sbd box	259.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

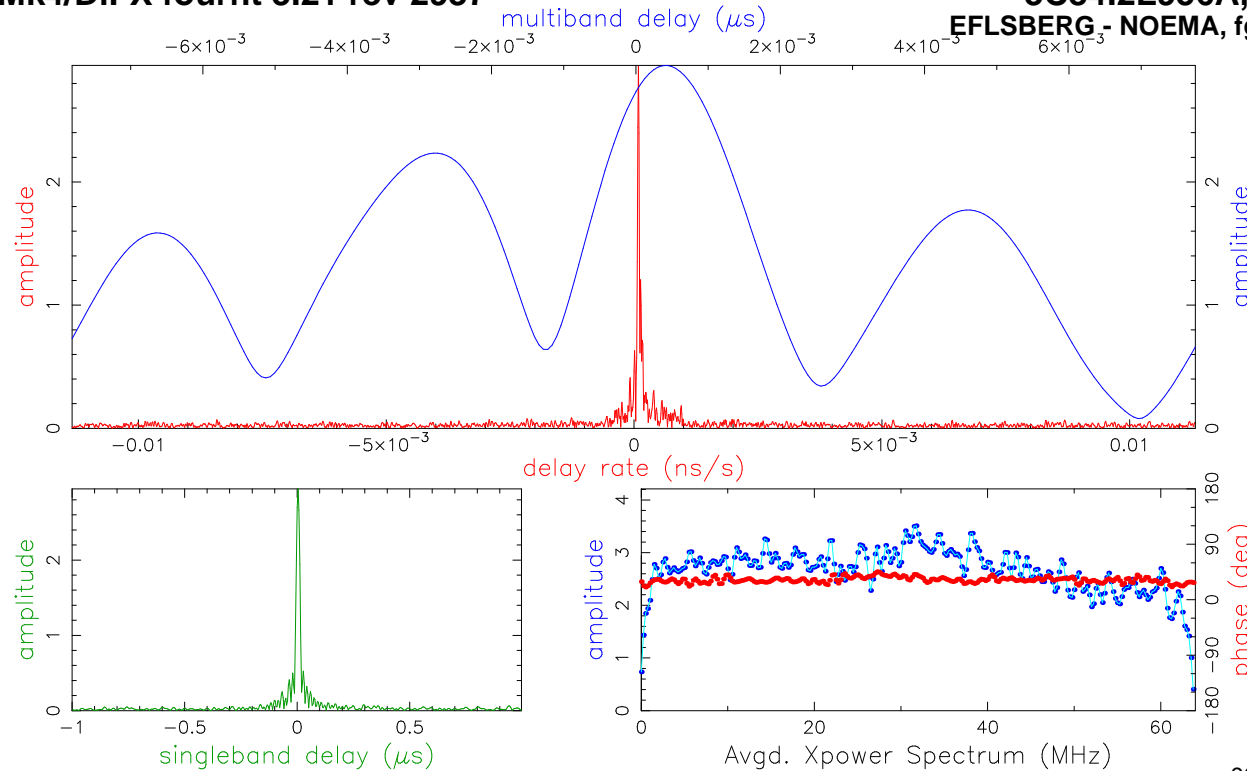
Group delay (usec)(sbd)	2.27542459356E+02	Apriori delay (usec)	2.27535265843E+02	Resid mbdelay (usec)	7.19351E-03	+/-	8.0E-06
Sband delay (usec)	2.27545939843E+02	Apriori clock (usec)	-1.5400979E+01	Resid sbdelay (usec)	1.06740E-02	+/-	6.4E-05
Phase delay (usec)	2.27535265468E+02	Apriori clockrate (us/s)	2.2999999E-08	Resid phdelay (usec)	-3.74188E-07	+/-	2.7E-08
Delay rate (us/s)	7.14999762706E-02	Apriori rate (us/s)	7.14998835155E-02	Resid rate (us/s)	9.27552E-08	+/-	1.3E-10
Total phase (deg)	276.3	Apriori accel (us/s/s)	3.89008766940E-06	Resid phase (deg)	-11.6	+/-	0.8

ph/seg (deg)	23.9	RMS	23.9	Theor.	2.0	Amplitude	2.604 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	9.5		9.5		3.6	Search (2048X32)	2.499	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	64.3		64.3		1.2	Inc. seg. avg.	2.812	Sample rate(MISamp/s):	128	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	63.5		63.5		2.1	Inc. frq. avg.	4.159	Data rate(Mb/s):	2048							

B: az 282.5 el 47.8 pa 56.1 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -541.966 734.707 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/BN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/BN.W.175.2L956A

Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, BN  
EFLSBERG - NOEMA, fgroup W, pol RL

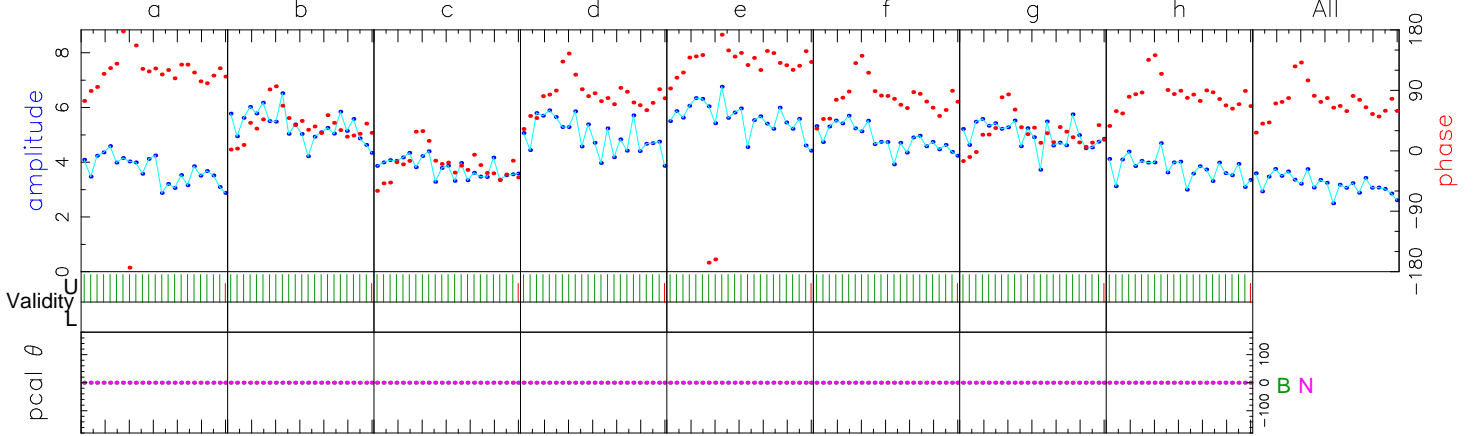


Fringe quality 3

SNR 152.8  
Int time 359.888  
Amp 2.946  
Phase 71.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.003781  
MBD 0.000408  
Fringe rate (Hz) 0.008013  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

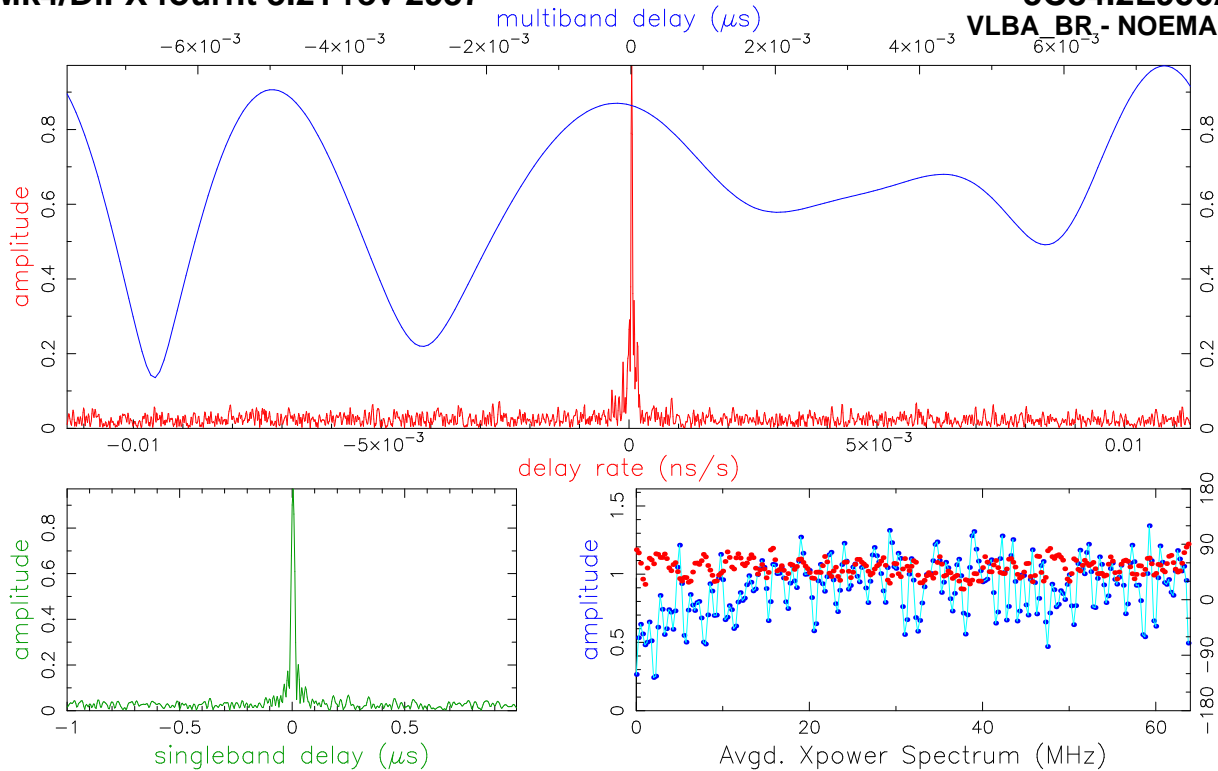
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130552  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	120.4	38.2	-21.2	82.0	139.4	78.5	26.0	83.1	Phase	71.3
	3.4	4.9	3.5	4.5	5.2	4.4	4.6	3.5	Ampl.	4.2
	256.0	257.6	258.6	258.4	258.5	258.4	258.3	256.9	Sbd box	258.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.27535674169E+02		Apriori delay (usec)		2.27535265843E+02		Resid mbdelay (usec)		4.08326E-04	+/- 7.1E-06
Sband delay (usec)	2.27539046343E+02		Apriori clock (usec)		-1.5400979E+01		Resid sbdelay (usec)		3.78050E-03	+/- 5.6E-05
Phase delay (usec)	2.27535268141E+02		Apriori clockrate (us/s)		2.2999999E-08		Resid phdelay (usec)		2.29866E-06	+/- 2.4E-08
Delay rate (us/s)	7.14999765392E-02		Apriori rate (us/s)		7.14998835155E-02		Resid rate (us/s)		9.30237E-08	+/- 1.2E-10
Total phase (deg)	359.2		Apriori accel (us/s/s)		3.89008766940E-06		Resid phase (deg)		71.3	+/- 0.7

ph/seg (deg) 23.9 1.8 Theor. Amplitude 2.946 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 14.4 3.1 Search (2048X32) 2.840 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 56.4 1.1 Inc. seg. avg. 3.219 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 49.4 1.9 Inc. frq. avg. 4.247 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 B: az 282.5 el 47.8 pa 56.1 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -541.966 734.707 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/BN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/BN.W.195.2L956A

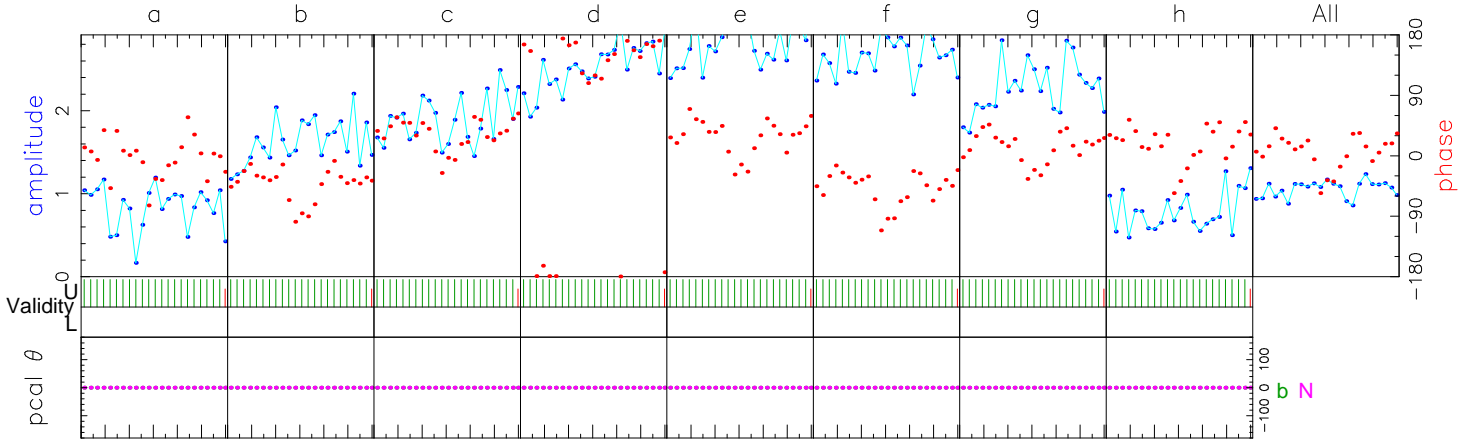


Fringe quality 3

SNR 50.4  
Int time 359.512  
Amp 0.972  
Phase 5.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.003467  
MBD 0.007383  
Fringe rate (Hz) 0.004377  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130514  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-3.8	-41.8	33.0	159.6	28.1	-49.2	12.4	19.3		5.9
	0.7	1.5	1.8	2.3	2.6	2.4	2.1	0.7		1.8
	256.1	258.1	258.6	258.3	258.1	258.2	257.5	255.2		257.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

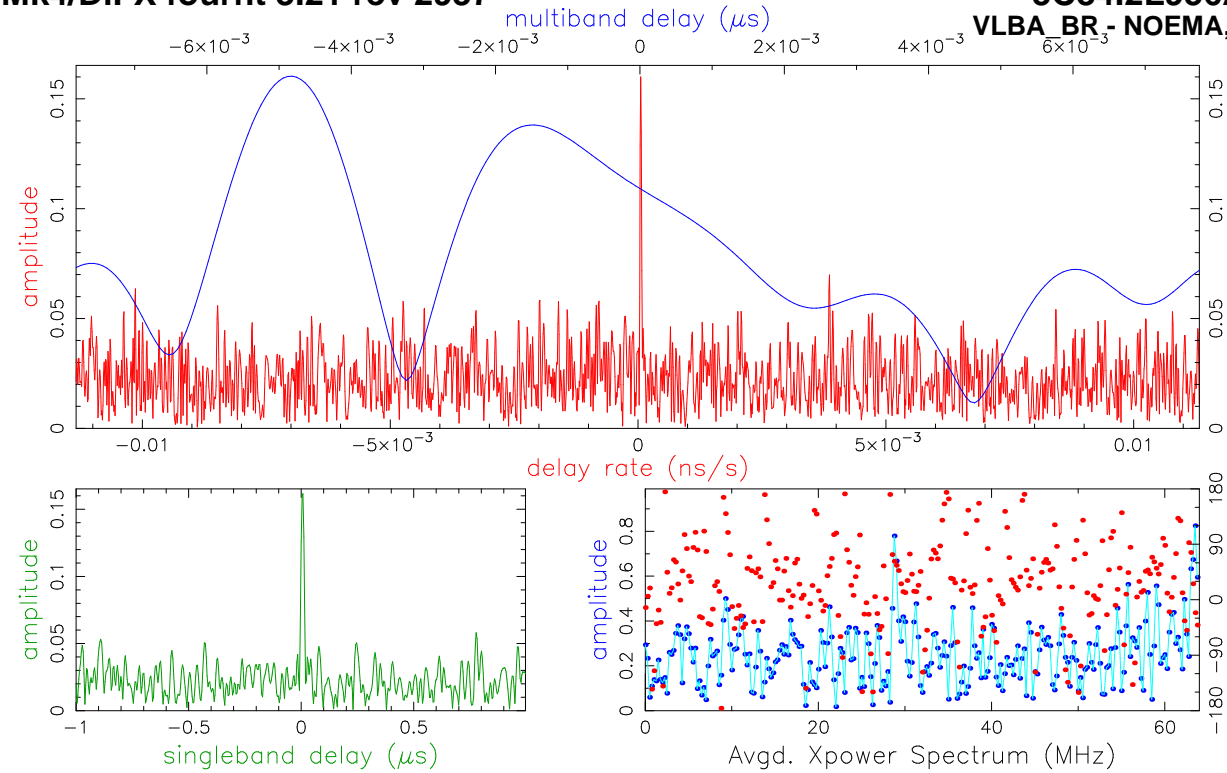
Group delay (usec)(sbd)	-1.98661546770E+02	Apriori delay (usec)	-1.98668930002E+02	Resid mbdelay (usec)	7.38323E-03	+/-	2.2E-05
Sband delay (usec)	-1.98665462752E+02	Apriori clock (usec)	1.1861453E+01	Resid sbdelay (usec)	3.46725E-03	+/-	1.7E-04
Phase delay (usec)	-1.98668929813E+02	Apriori clockrate (us/s)	-3.3918999E-07	Resid phdelay (usec)	1.88795E-07	+/-	7.3E-08
Delay rate (us/s)	1.42486393750E+00	Apriori rate (us/s)	1.42486388669E+00	Resid rate (us/s)	5.08107E-08	+/-	3.5E-10
Total phase (deg)	-221.1	Apriori accel (us/s/s)	4.25714325303E-06	Resid phase (deg)	5.9	+/-	2.3

ph/seg (deg)	23.9	Theor.	5.5	Amplitude	0.972 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	13.5	Search (2048X32)	0.935	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	71.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	107.6	Inc. seg. avg.	1.055	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	1.761	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 72.9 el 44.7 pa -58.5 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -10902.613 676.149 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/bN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/bN.W.2.2L956A



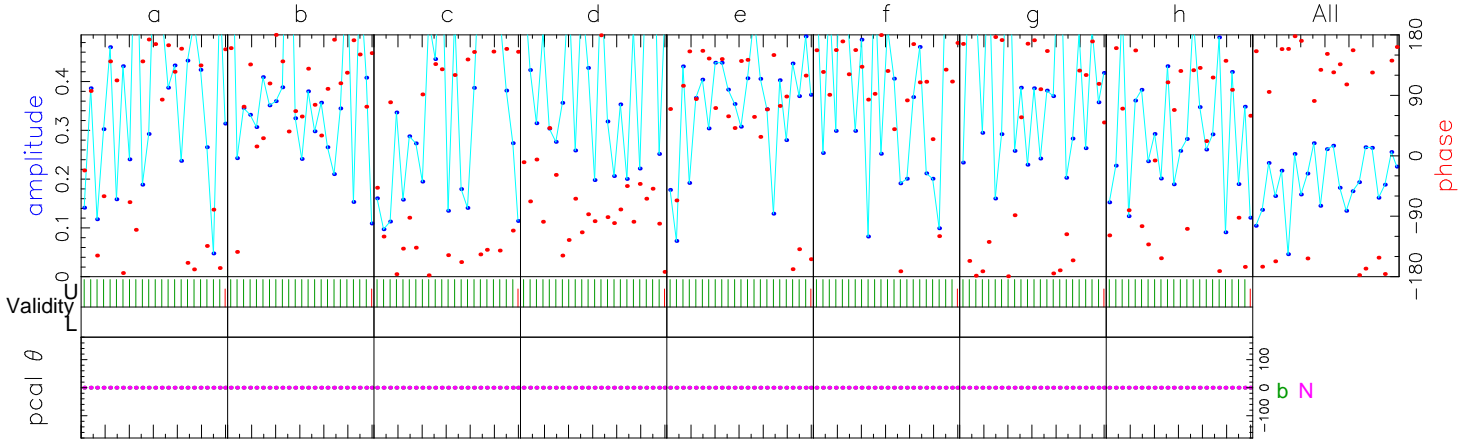


Fringe quality 9

SNR 8.6  
Int time 359.512  
Amp 0.165  
Phase 154.9  
PFD 3.8e-09  
Delays (us)  
SBD 0.006039  
MBD -0.004771  
Fringe rate (Hz) 0.004496  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c222d  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130521  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



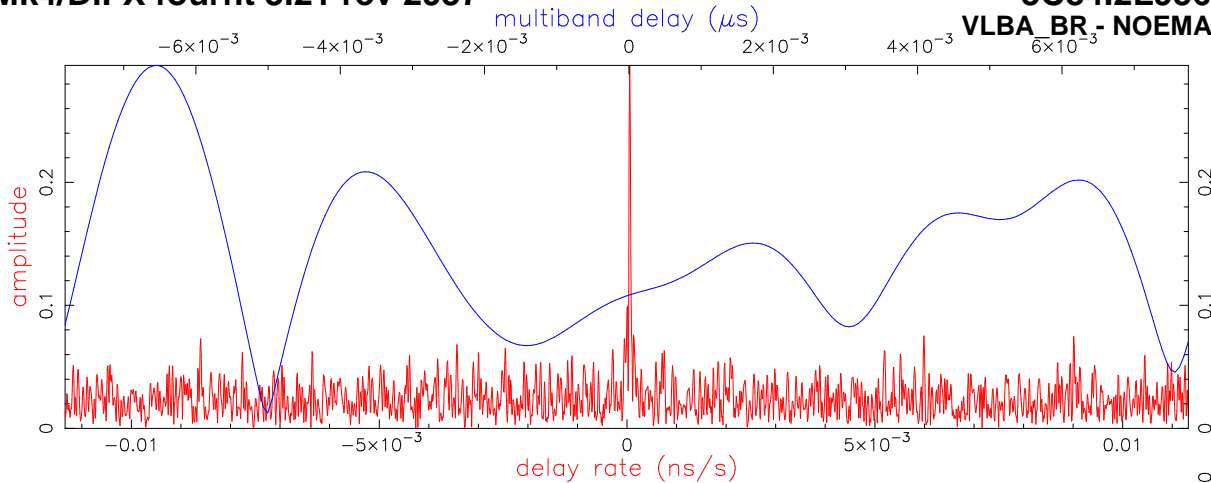
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.98658076052E+02	Apriori delay (usec)	-1.98668930002E+02	Resid mbdelay (usec)	-4.77105E-03	+/-	1.3E-04
Sband delay (usec)	-1.98662891002E+02	Apriori clock (usec)	1.1861453E+01	Resid sbdelay (usec)	6.03900E-03	+/-	1.0E-03
Phase delay (usec)	-1.98668925006E+02	Apriori clockrate (us/s)	-3.3918999E-07	Resid phdelay (usec)	4.99547E-06	+/-	4.3E-07
Delay rate (us/s)	1.42486393888E+00	Apriori rate (us/s)	1.42486388669E+00	Resid rate (us/s)	5.21916E-08	+/-	2.1E-09
Total phase (deg)	-72.0	Apriori accel (us/s/s)	4.25714325303E-06	Resid phase (deg)	154.9	+/-	13.4

ph/seg (deg)	35.1	Theor.	32.1	Amplitude	0.165 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	40.3		56.0	Search (2048X32)	0.158	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	60.4		18.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	59.3		33.0	Inc. seg. avg.	0.170	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
				Inc. frq. avg.	0.231	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

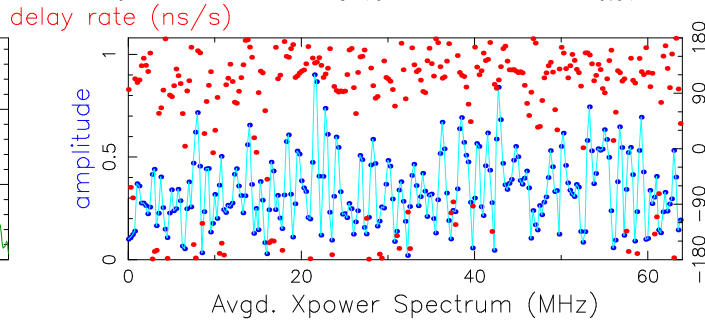
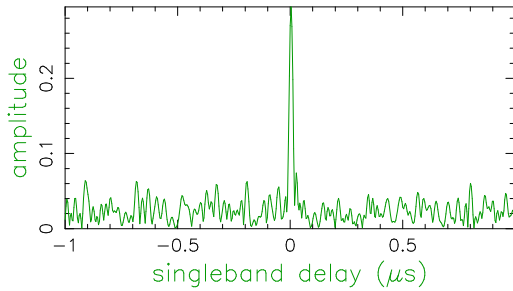
b: az 72.9 el 44.7 pa -58.5 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -10902.613 676.149 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/bN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/bN.W.34.2L956A



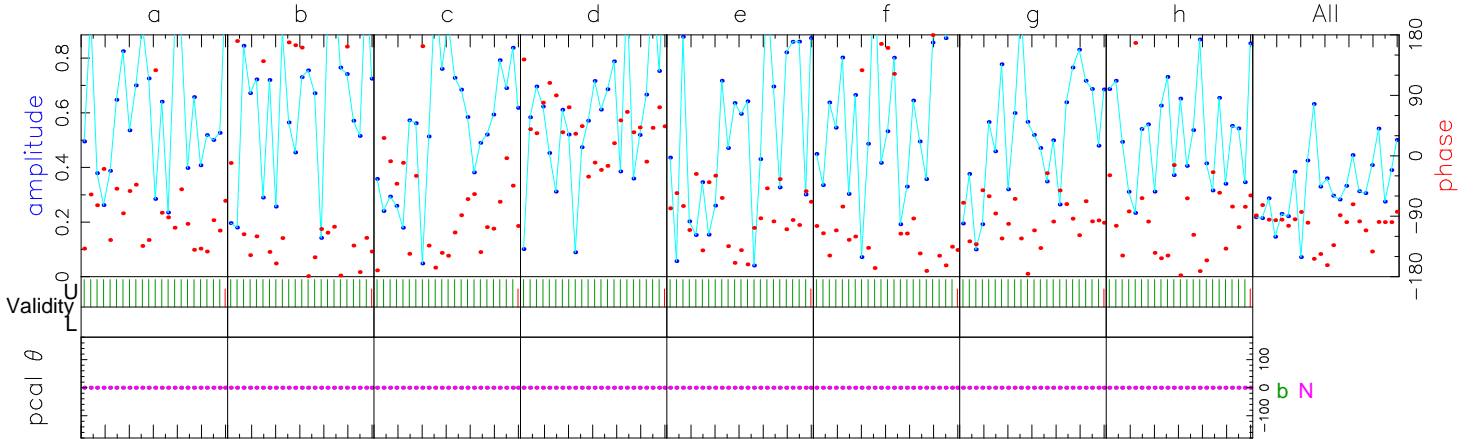
Fringe quality 7

SNR 15.3  
Int time 359.512  
Amp 0.295  
Phase -107.8  
PFD 4.8e-44  
Delays (us)  
SBD 0.003878  
MBD -0.006554  
Fringe rate (Hz)  
0.004541  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130525  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

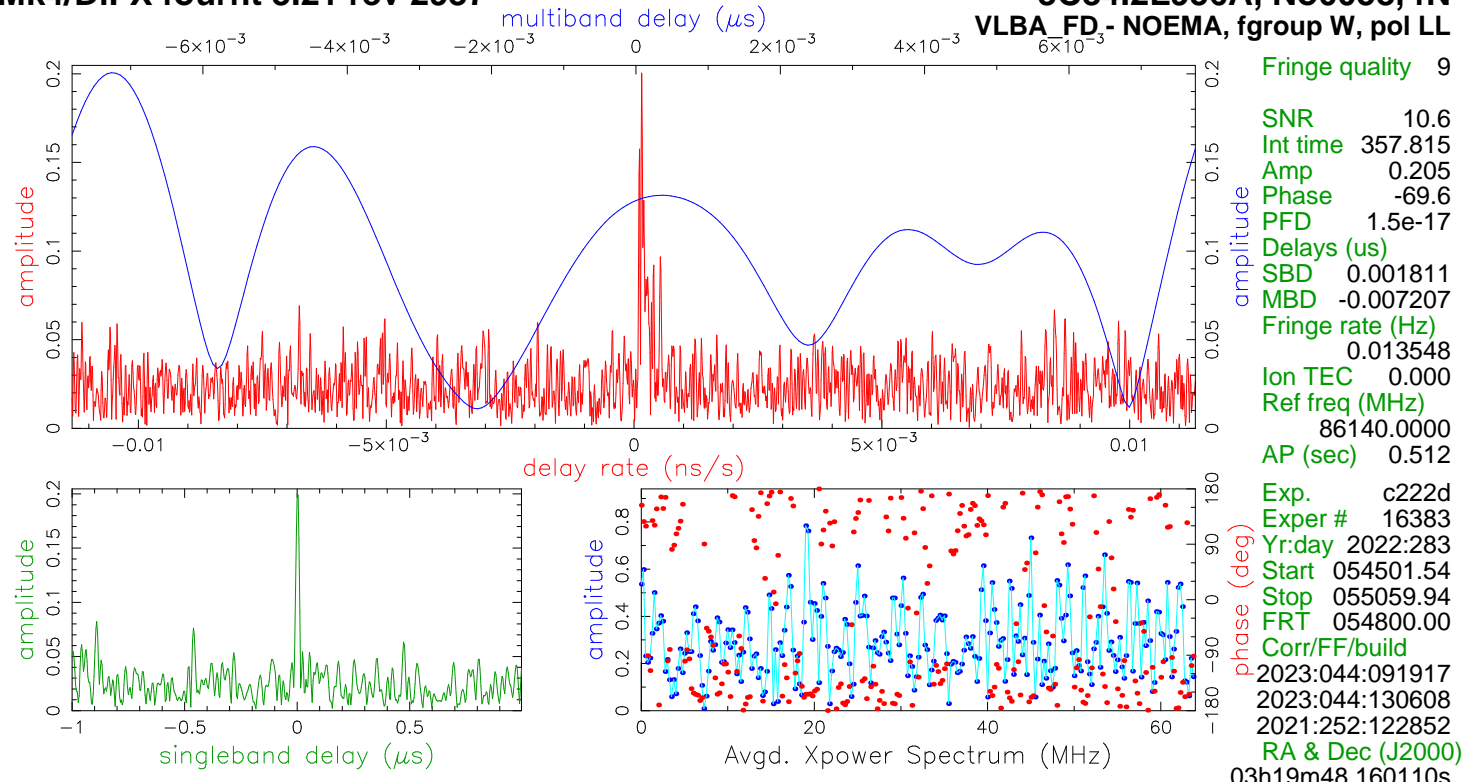


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.9	-147.7	-100.3	36.6	-92.9	-145.8	-98.1	-106.9	Phase	-107.8
	0.5	0.5	0.3	0.5	0.4	0.5	0.4	0.3	Ampl.	0.4
	256.7	258.9	259.1	258.8	258.8	258.5	257.7	256.4	Sbd box	258.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.98659858520E+02		Apriori delay (usec)		-1.98668930002E+02		Resid mbdelay (usec)		-6.55352E-03	+/- 7.1E-05
Sband delay (usec)	-1.98665052502E+02		Apriori clock (usec)		1.1861453E+01		Resid sbdelay (usec)		3.87750E-03	+/- 5.6E-04
Phase delay (usec)	-1.98668933479E+02		Apriori clockrate (us/s)		-3.3918999E-07		Resid phdelay (usec)		-3.47763E-06	+/- 2.4E-07
Delay rate (us/s)	1.42486393941E+00		Apriori rate (us/s)		1.42486388669E+00		Resid rate (us/s)		5.27174E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		4.25714325303E-06		Resid phase (deg)		-107.8	+/- 7.5

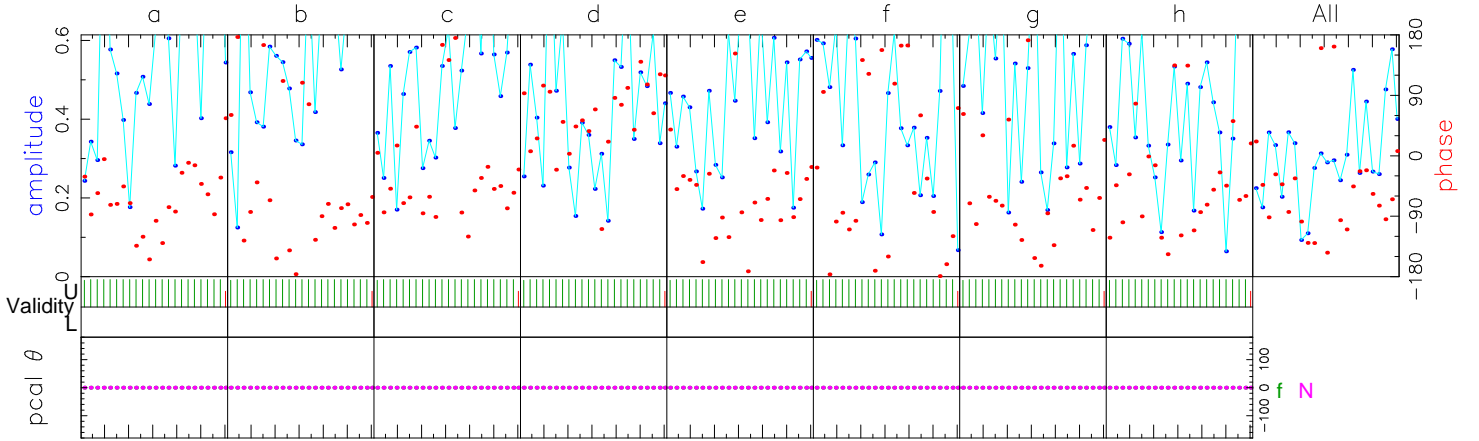
	RMS	Theor.	Amplitude	0.295 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	24.6	18.0	Search (2048X32)	0.284	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	43.5	31.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	63.9	10.6	Inc. seg. avg.	0.313	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	52.6	18.5	Inc. frq. avg.	0.430	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 72.9 el 44.7 pa -58.5 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -10902.613 676.149 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/bN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/bN.W.58.2L956A





Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-59.3	-102.7	-56.5	70.5	-66.4	-145.9	-72.0	-63.5	Phase	-69.6
	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.2	Ampl.	0.3
	256.8	257.2	258.6	258.6	258.0	258.0	257.6	256.0	Sbd box	257.5
U/L	700/0	700/0	700/0	700/0	700/0	700/0	700/0	700/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.70959629741E+02	Apriori delay (usec)	9.70951211869E+02	Resid mbdelay (usec)	-7.20713E-03	+/-	1.0E-04
Sband delay (usec)	9.70953022369E+02	Apriori clock (usec)	3.3605877E+01	Resid sbdelay (usec)	1.81050E-03	+/-	8.1E-04
Phase delay (usec)	9.70951209623E+02	Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	-2.24588E-06	+/-	3.5E-07
Delay rate (us/s)	1.47440950105E+00	Apriori rate (us/s)	1.47440934377E+00	Resid rate (us/s)	1.57274E-07	+/-	1.7E-09
Total phase (deg)	70.9	Apriori accel (us/s/s)	-1.94479803379E-05	Resid phase (deg)	-69.6	+/-	10.8

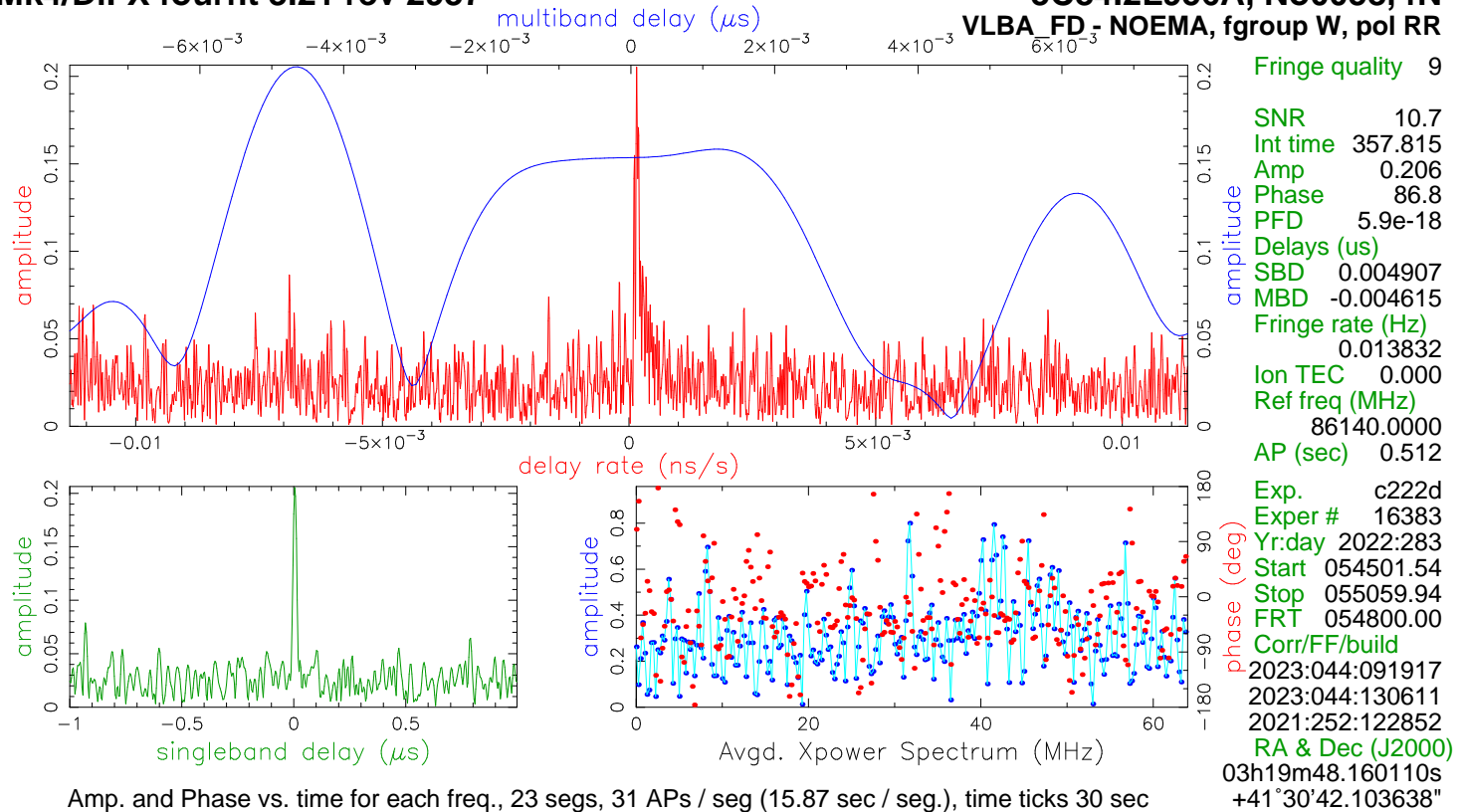
ph/seg (deg)	RMS 56.3	Theor. 25.9	Amplitude Search (2048X32) 0.197	0.205 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	77.0	45.3	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	66.9	15.3	Inc. seg. avg. 0.281	0.281	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	55.2	26.7	Inc. frq. avg. 0.286	0.286	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 60.4 el 49.2 pa -88.7 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -11318.006 -2529.855 simultaneous interpolator

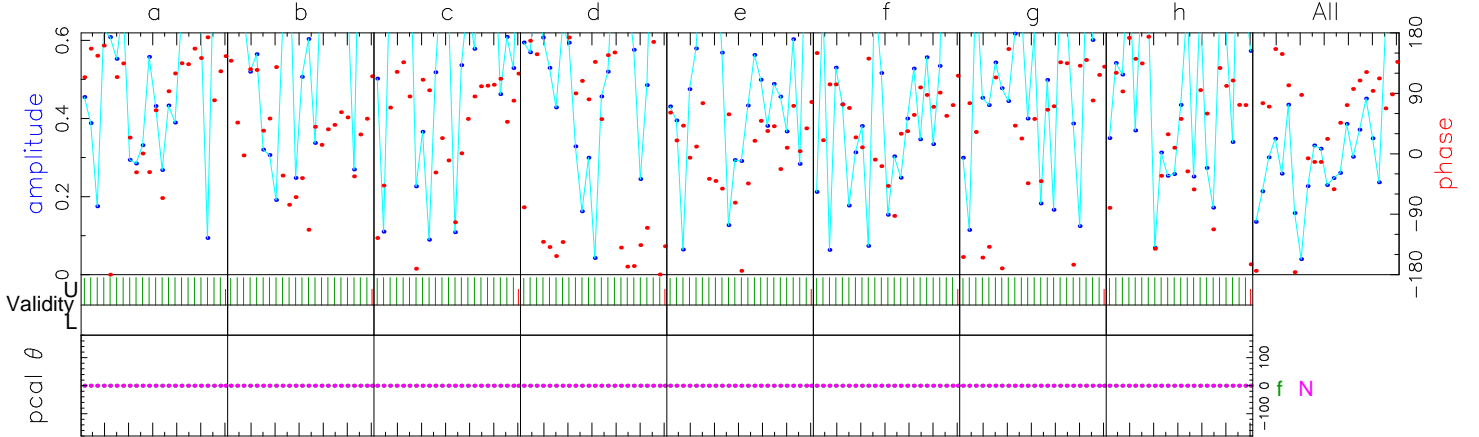
Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/fN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/fN.W.208.2L956A

Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, fN  
VLBA\_FD - NOEMA, fgroup W, pol RR

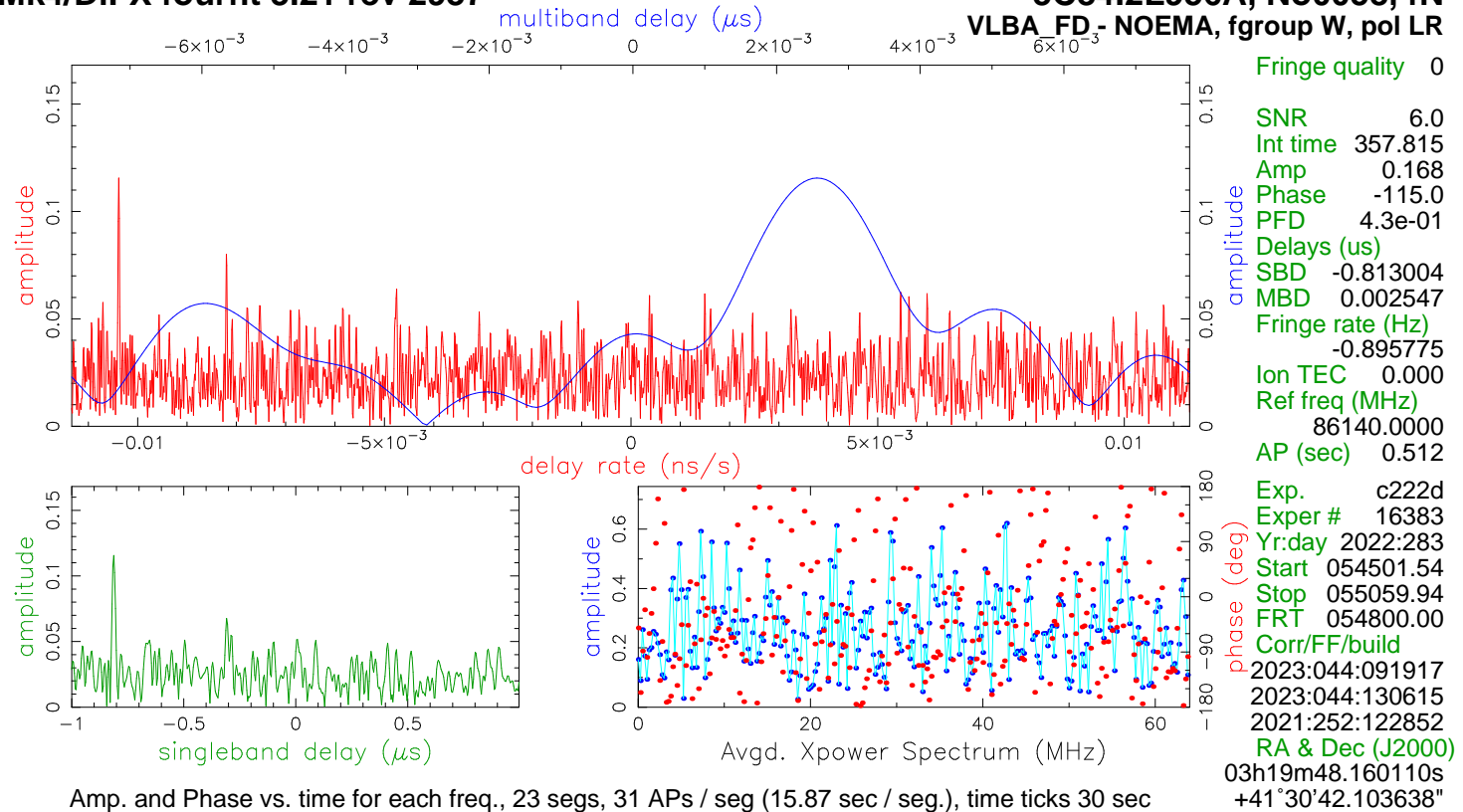


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

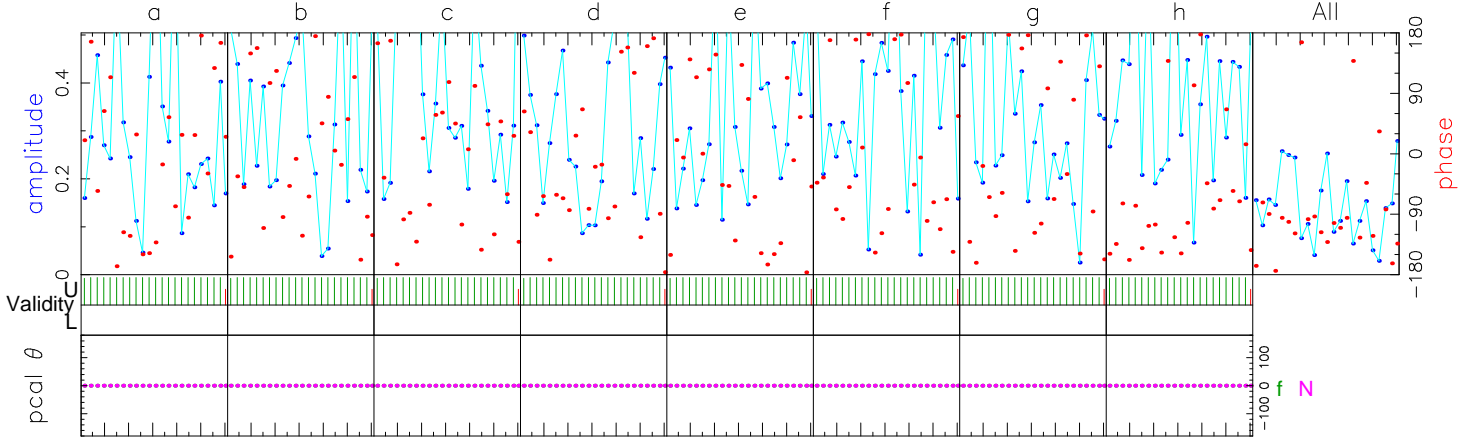


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
126.4	36.6	81.5	-172.6	15.4	56.1	110.7	103.6	103.6	Phase	86.8
0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.2	Ampl.	0.3
257.1	258.9	259.0	258.8	259.1	258.3	257.4	257.2	257.2	Sbd box	258.3
U/L	700/0	700/0	700/0	700/0	700/0	700/0	700/0	700/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.70962222120E+02		Apriori delay (usec)	9.70951211869E+02	Resid mbdelay (usec)	-4.61475E-03	+/-	1.0E-04		
Sband delay (usec)	9.70956119369E+02		Apriori clock (usec)	3.3605877E+01	Resid sbdelay (usec)	4.90750E-03	+/-	8.1E-04		
Phase delay (usec)	9.70951214668E+02		Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	2.79866E-06	+/-	3.5E-07		
Delay rate (us/s)	1.47440950435E+00		Apriori rate (us/s)	1.47440934377E+00	Resid rate (us/s)	1.60579E-07	+/-	1.7E-09		
Total phase (deg)		227.3	Apriori accel (us/s/s)	-1.94479803379E-05	Resid phase (deg)	86.8	+/-	10.7		

ph/seg (deg) 61.9 25.7 Search (2048X32) 0.191 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 92.8 44.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 59.3 15.2 Inc. seg. avg. 0.294 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 63.2 26.5 Inc. frq. avg. 0.315 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
f: az 60.4 el 49.2 pa -88.7 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -11318.006 -2529.855 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/fN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/fN.W.210.2L956A



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

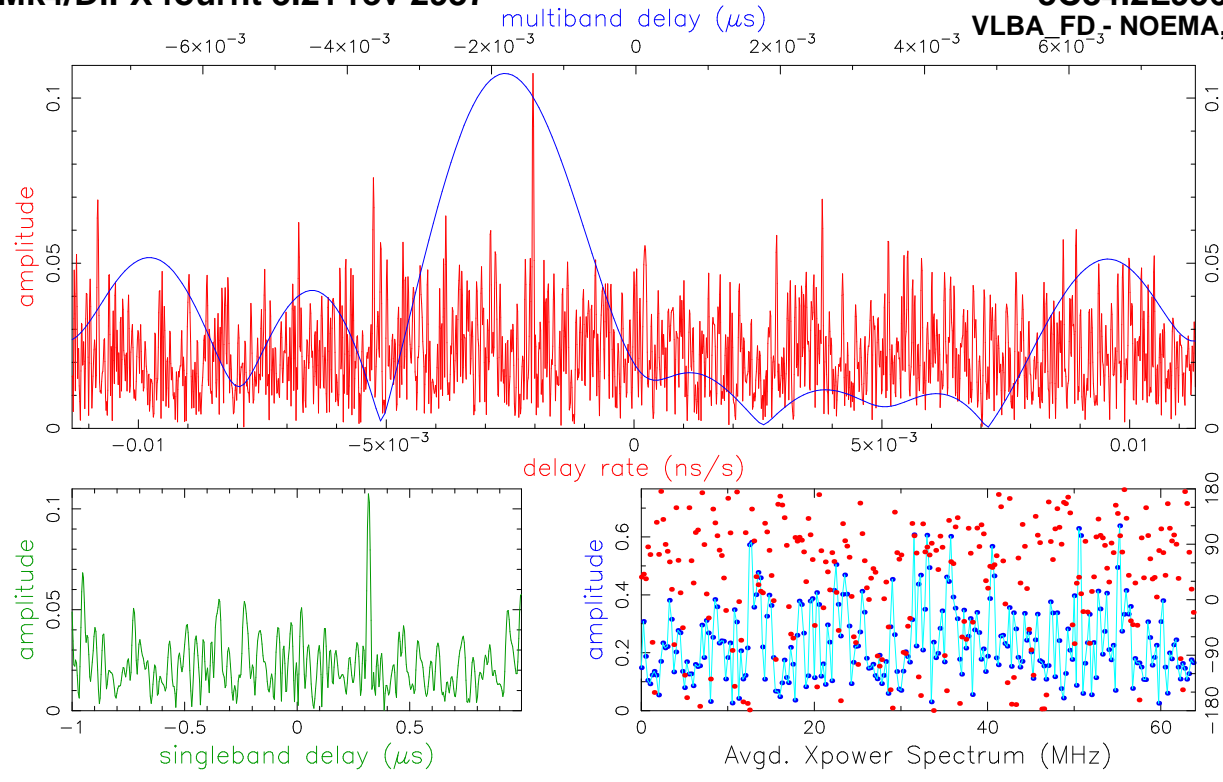


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-122.6	-90.6	-145.7	-103.6	-154.2	-103.6	-134.7	-105.8	Phase	-115.0
	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.4	Ampl.	0.2
	177.1	212.4	426.5	383.4	183.6	49.4	437.8	48.6	Sbd box	48.9
U/L	700/0	700/0	700/0	700/0	700/0	700/0	700/0	700/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.70141258554E+02		Apriori delay (usec)	9.70951211869E+02	Resid mbdelay (usec)	2.54669E-03	+/-	1.8E-04		
Sband delay (usec)	9.70138208119E+02		Apriori clock (usec)	0.113	Resid sbdelay (usec)	-8.13004E-01	+/-	1.4E-03		
Phase delay (usec)	9.70951208161E+02		Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	-3.70771E-06	+/-	6.2E-07		
Delay rate (us/s)	1.47439894471E+00		Apriori rate (us/s)	1.47440934377E+00	Resid rate (us/s)	-1.03991E-05	+/-	3.0E-09		
Total phase (deg)		25.6	Apriori accel (us/s/s)	-1.94479803379E-05	Resid phase (deg)	-115.0	+/-	19.1		

	RMS	Theor.	Amplitude	0.168 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	51.3	45.9	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	65.2	80.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.4	27.1	Inc. seg. avg.	0.157	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	60.9	47.2	Inc. frq. avg.	0.158	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

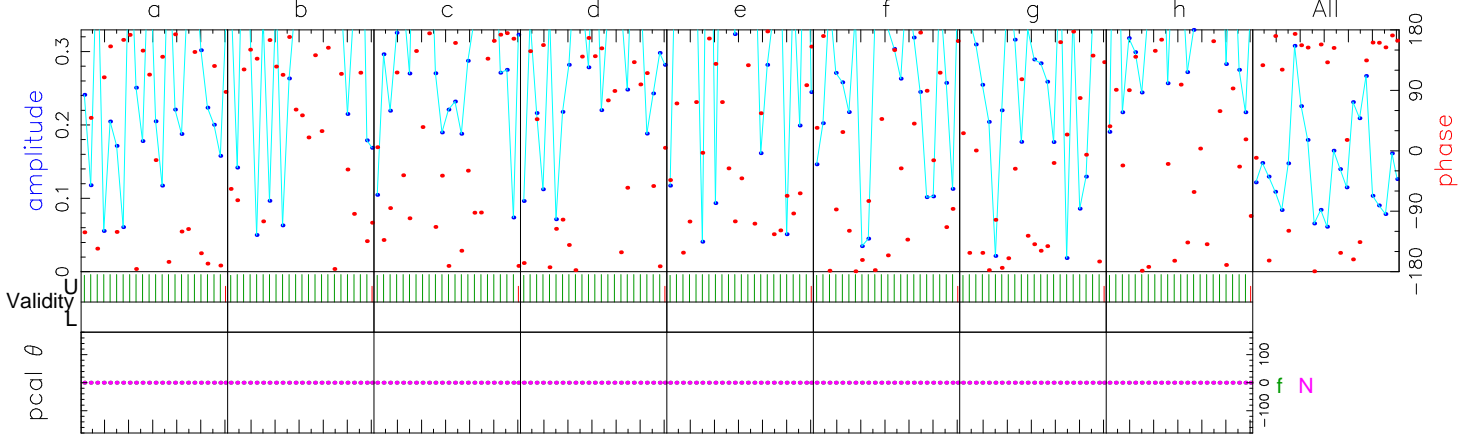
f: az 60.4 el 49.2 pa -88.7 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -11318.006 -2529.855 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/fN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/fN.W.214.2L956A



Fringe quality 0  
SNR 5.6  
Int time 357.815  
Amp 0.110  
Phase 169.3  
PFD 9.9e-01  
Delays (us)  
SBD 0.317592  
MBD -0.001802  
Fringe rate (Hz)  
-0.175628  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054501.54  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130618  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

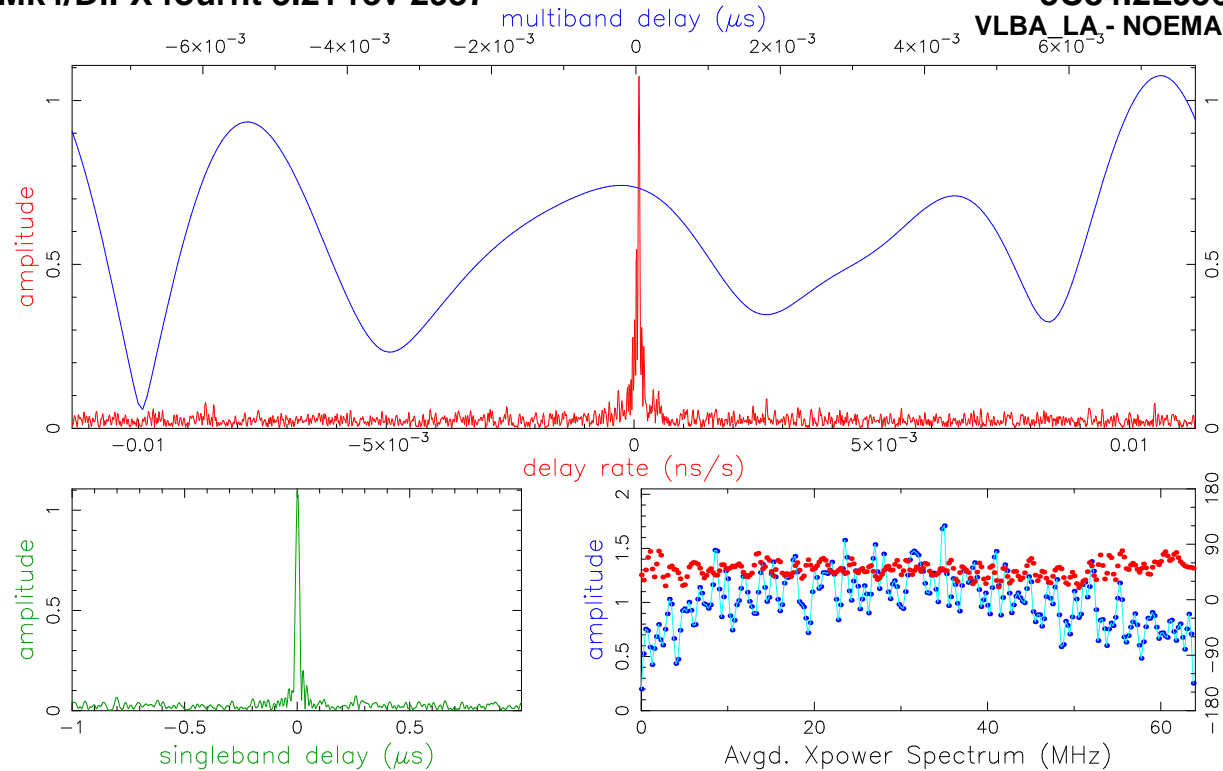
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-180.0	124.8	-163.4	152.9	-163.2	-177.7	-167.4	136.8	Phase	169.3
	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	324.8	439.8	14.4	422.7	494.4	442.9	2.9	43.4	Sbd box	338.3
U/L	700/0	700/0	700/0	700/0	700/0	700/0	700/0	700/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.71261910091E+02	Apriori delay (usec)	9.70951211869E+02	Resid mbdelay (usec)	-1.80178E-03	+/-	1.9E-04
Sband delay (usec)	9.71268803869E+02	Apriori clock (usec)	3.3605877E+01	Resid sbdelay (usec)	3.17592E-01	+/-	1.5E-03
Phase delay (usec)	9.70951217327E+02	Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	5.45817E-06	+/-	6.6E-07
Delay rate (us/s)	1.47440730490E+00	Apriori rate (us/s)	1.47440934377E+00	Resid rate (us/s)	-2.03887E-06	+/-	3.2E-09
Total phase (deg)	309.8	Apriori accel (us/s/s)	-1.94479803379E-05	Resid phase (deg)	169.3	+/-	20.4

ph/seg (deg)	57.3	Theor.	49.0	Amplitude	0.110 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	69.0	Search (2048X32)	0.106	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	30.7	Inc. seg. avg.	0.108	Inc. frq. avg.	0.107	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	31.2	Inc. frq. avg.	0.107			Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
f: az 60.4 el 49.2 pa -88.7		N: az 288.1 el 46.8 pa 64.9		u,v (fr/asec)	-11318.006 -2529.855	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

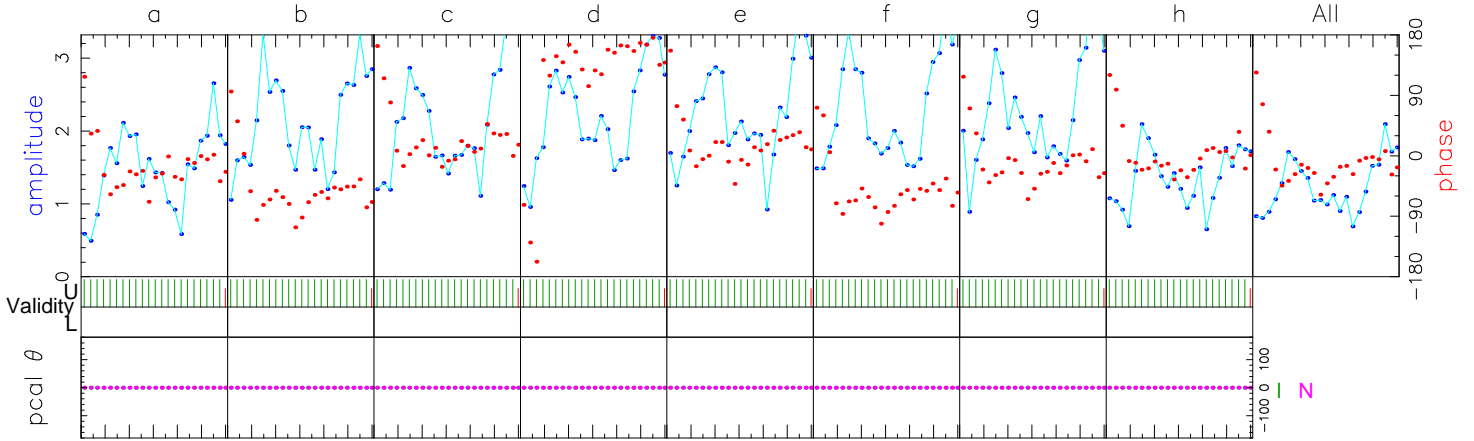


Fringe quality 2

SNR 57.4  
Int time 359.838  
Amp 1.107  
Phase -15.5  
PFD 0.0e+00  
Delays (us)  
SBD 0.001582  
MBD 0.007204  
Fringe rate (Hz)  
0.008566  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130518  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



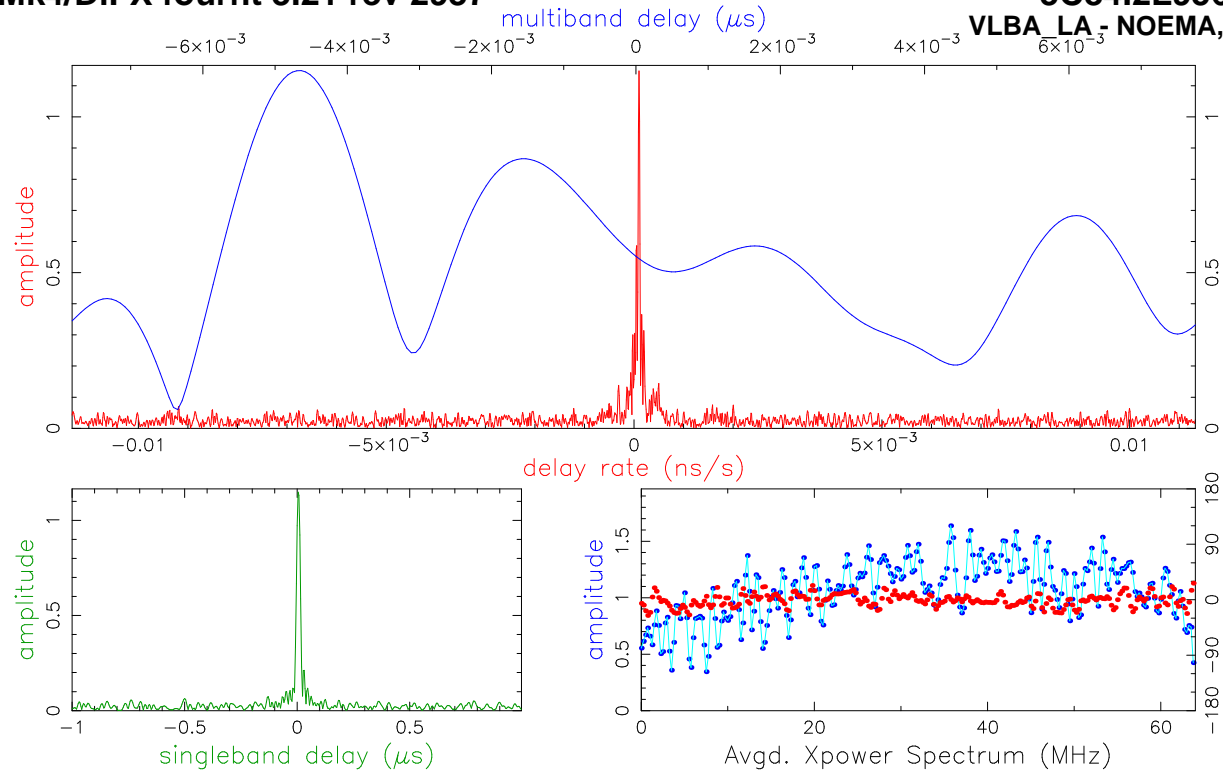
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-22.6	-58.1	16.9	151.7	14.4	-56.7	-14.6	-2.5	Phase	-15.5
	1.3	1.8	1.8	2.0	1.9	2.0	2.0	1.2	Ampl.	1.7
	256.1	257.7	258.5	258.4	258.3	258.1	257.5	255.6	Sbd box	257.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.09326543131E+03		Apriori delay (usec)		1.09325822693E+03		Resid mbdelay (usec)		7.20438E-03	+/- 1.9E-05
Sband delay (usec)	1.09325980943E+03		Apriori clock (usec)		1.0660861E+01		Resid sbdelay (usec)		1.58250E-03	+/- 1.5E-04
Phase delay (usec)	1.09325822643E+03		Apriori clockrate (us/s)		-1.3148000E-07		Resid phdelay (usec)		-5.00183E-07	+/- 6.4E-08
Delay rate (us/s)	1.45647479409E+00		Apriori rate (us/s)		1.45647469465E+00		Resid rate (us/s)		9.94446E-08	+/- 3.1E-10
Total phase (deg)	224.9		Apriori accel (us/s/s)		-1.46019411242E-05		Resid phase (deg)		-15.5	+/- 2.0

ph/seg (deg) 39.9 4.8 Search (2048X32) 1.068 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 34.7 8.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 74.9 2.8 Inc. seg. avg. 1.232 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 64.1 4.9 Inc. frq. avg. 1.747 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 I: az 65.5 el 49.8 pa -81.1 N: az 288.1 el 46.8 pa 64.9 u, v (fr/asec) -11173.732 -1696.287 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/IN...2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/IN.W.15.2L956A



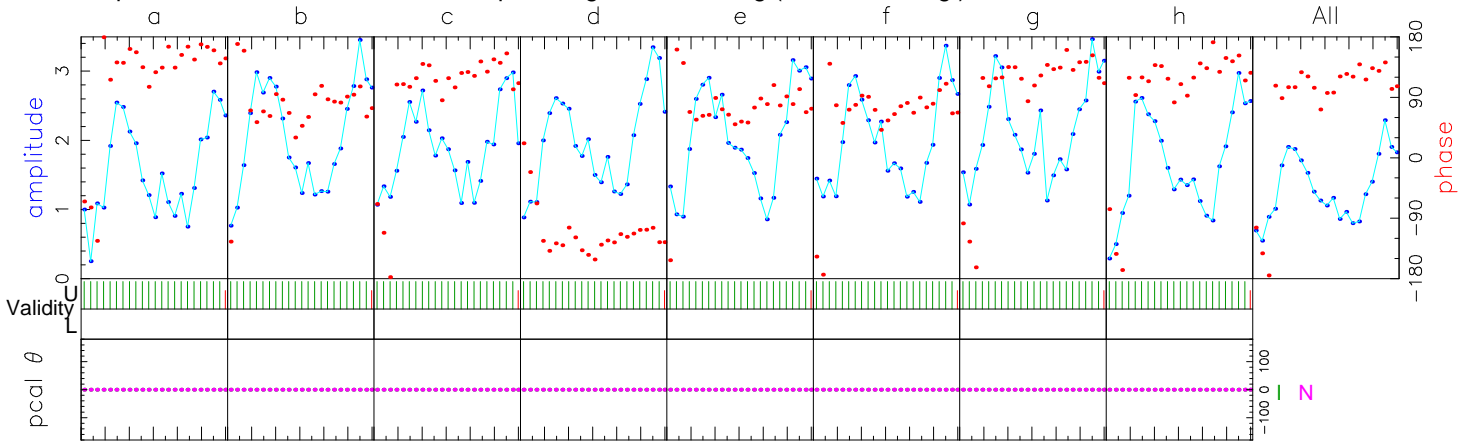
Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, IN  
VLBA LA - NOEMA, fgroup W, pol RR



Fringe quality 1  
SNR 60.5  
Int time 359.838  
Amp 1.165  
Phase 117.5  
PFD 0.0e+00  
Delays (us)  
SBD 0.005542  
MBD -0.004618  
Fringe rate (Hz) 0.008647  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build 2023:044:091917  
2023:044:130522  
2021:252:122852  
RA & Dec (J2000) 03h19m48.160110s  
+41°30'42.103638"

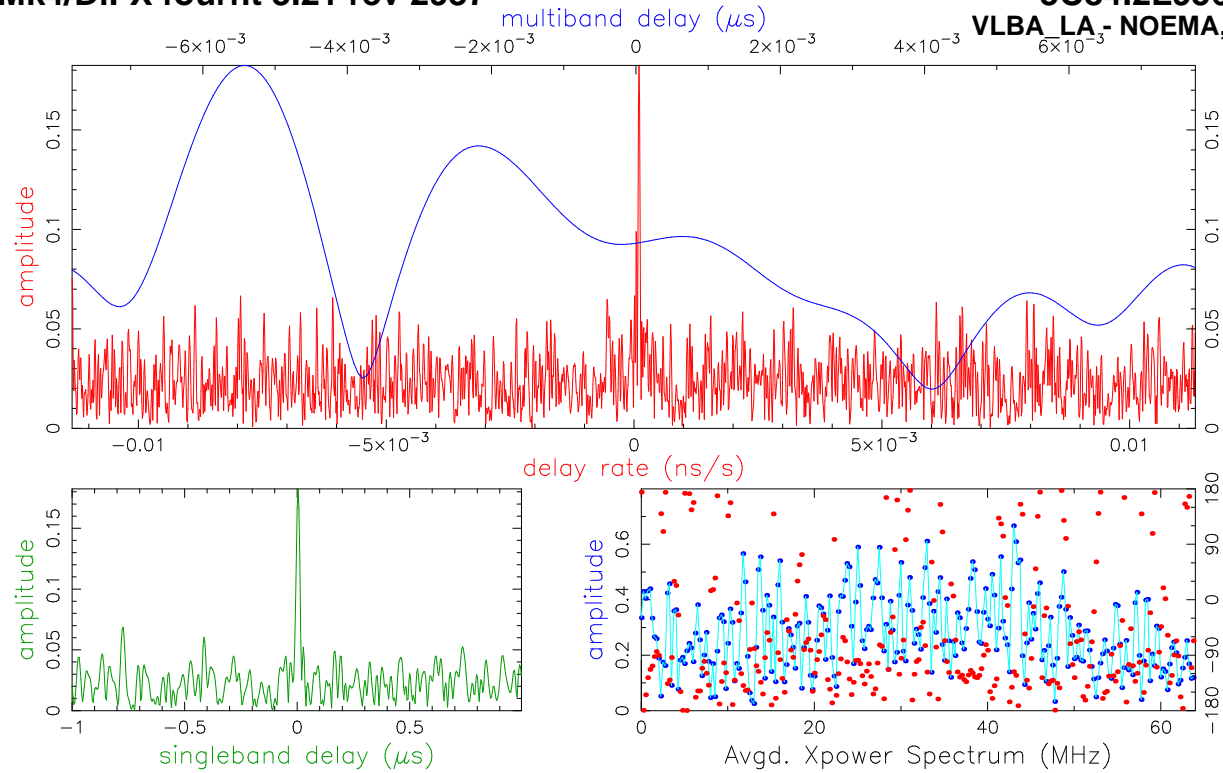
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
I	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.09326923372E+03			1.09325822693E+03					
Sband delay (usec)		1.09326376918E+03			1.0660861E+01					
Phase delay (usec)		1.09325823072E+03			-1.3148000E-07					
Delay rate (us/s)		1.45647479504E+00			1.45647469465E+00					
Total phase (deg)			357.9		-1.46019411242E-05					
			Apriori delay (usec)		Resid mbdelay (usec)					
			Apriori clock (usec)		Resid sbdelay (usec)					
			Apriori clockrate (us/s)		Resid phdelay (usec)					
			Apriori rate (us/s)		Resid rate (us/s)					
			Apriori accel (us/s/s)		Resid phase (deg)					
ph/seg (deg)	42.1	4.5	Search (2048X32)	1.121	Pcal mode: MANUAL, MANUAL					
amp/seg (%)	41.8	7.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)					
ph/frq (deg)	59.4	2.7	Inc. seg. avg.	1.308	Bits/sample: 2x2					
amp/frq (%)	45.7	4.7	Inc. frq. avg.	1.673	SampCntNorm: enabled					
					Sample rate(MISamp/s): 128					
					Data rate(Mb/s): 2048					
					nlags: 256					
					t_cohere infinite					
I: az 65.5 el 49.8 pa -81.1			N: az 288.1 el 46.8 pa 64.9		u,v (fr/asec) -11173.732 -1696.287					
Control file: cf_1234_gmva			Input file: /Exps/c222d/v1/3mm/3001/No0058/IN...2L956A		Output file: /Exps/c222d/v1/3mm/3001/No0058/IN.W.42.2L956A					

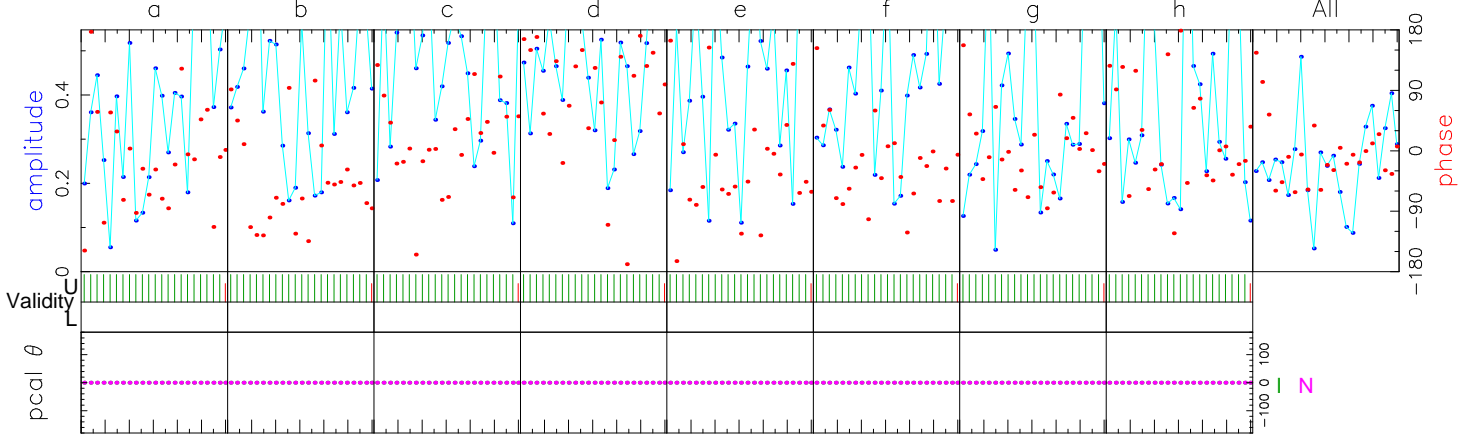
simultaneous interpolator





Fringe quality 9  
 SNR 9.5  
 Int time 359.838  
 Amp 0.182  
 Phase -14.7  
 PFD 1.2e-12  
 Delays (us)  
 SBD 0.003894  
 MBD -0.005424  
 Fringe rate (Hz) 0.008473  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. c222d  
 Exper # 16383  
 Yr:day 2022:283  
 Start 054500.00  
 Stop 055059.94  
 FRT 054800.00  
 Corr/FF/build  
 2023:044:091917  
 2023:044:130526  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160110s  
 +41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

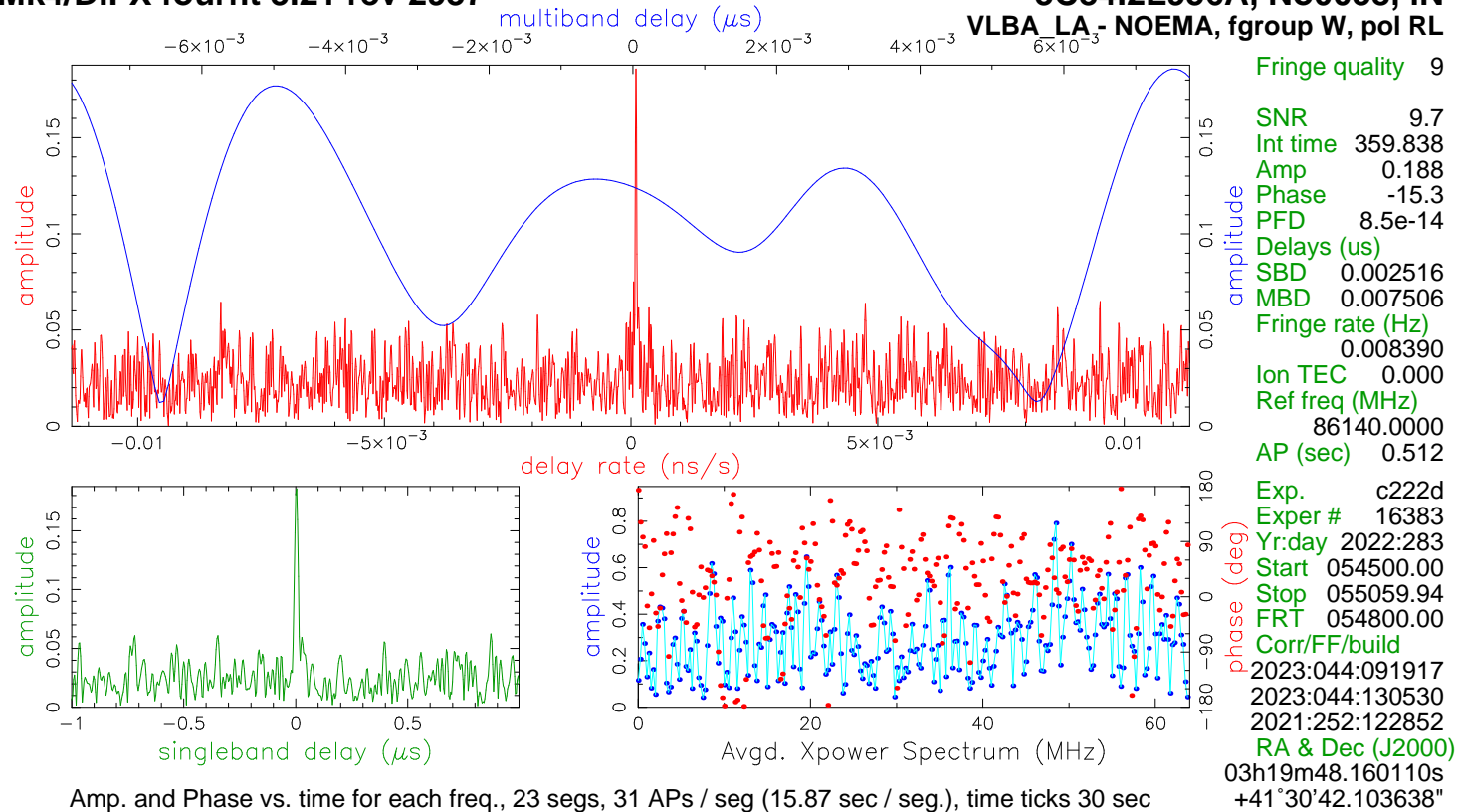


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-6.5	-69.3	14.6	110.8	-42.8	-33.2	-8.7	-14.2	Phase	-14.7
	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	Ampl.	0.3
	255.4	257.3	259.6	259.0	258.6	258.4	258.3	255.6	Sbd box	258.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)		1.09326842815E+03				1.09325822693E+03			Resid mbdelay (usec)	-5.42378E-03 +/- 1.1E-04
Sband delay (usec)		1.09326212068E+03				1.0660861E+01			Resid sbdelay (usec)	3.89375E-03 +/- 9.1E-04
Phase delay (usec)		1.09325822646E+03				-1.3148000E-07			Resid phdelay (usec)	-4.74143E-07 +/- 3.9E-07
Delay rate (us/s)		1.45647479301E+00				1.45647469465E+00			Resid rate (us/s)	9.83598E-08 +/- 1.9E-09
Total phase (deg)			225.7			-1.46019411242E-05			Resid phase (deg)	-14.7 +/- 12.1

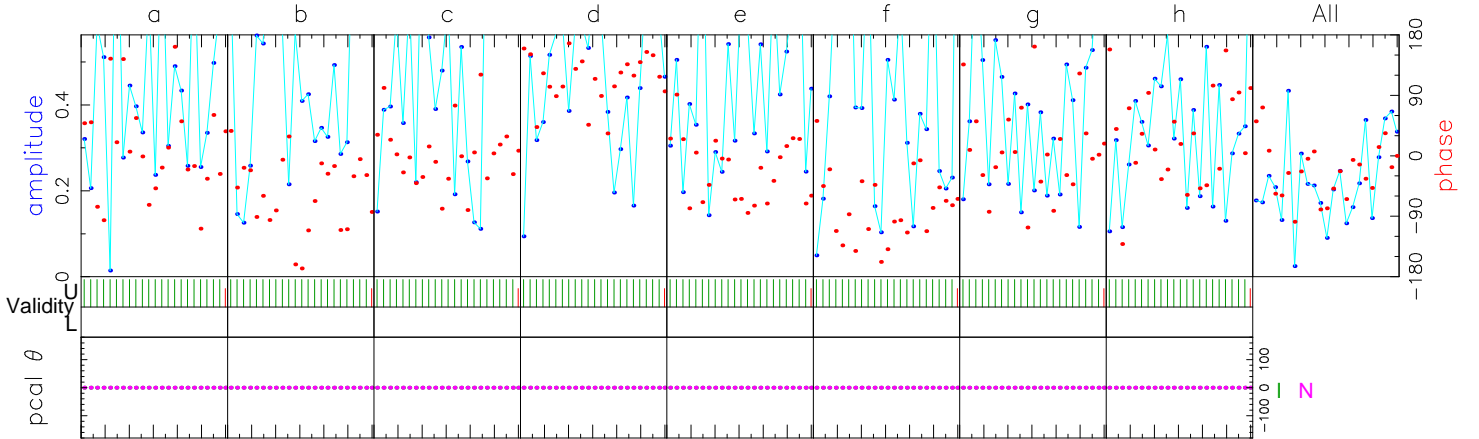
ph/seg (deg) 51.4 29.0 Amplitude 0.182 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 63.9 50.7 Interp. 0.181 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 58.9 17.1 Inc. seg. avg. 0.218 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 53.2 29.9 Inc. frq. avg. 0.255 Data rate (Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 I: az 65.5 el 49.8 pa -81.1 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -11173.732 -1696.287 simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, IN  
VLBA LA- NOEMA, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

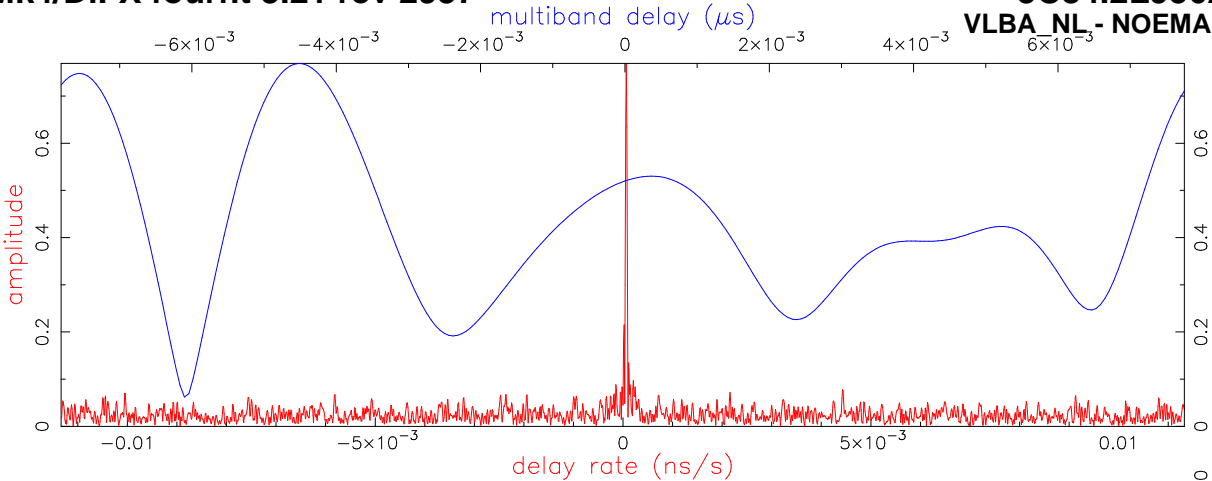


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-5.1	-52.6	-7.0	117.1	-24.0	-88.4	-2.1	21.8	Phase	-15.3
	0.3	0.3	0.4	0.4	0.3	0.4	0.2	0.2	Ampl.	0.3
	256.5	258.1	258.1	258.0	258.0	258.8	258.8	255.8	Sbd box	257.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.09326573290E+03		Apriori delay (usec)		1.09325822693E+03		Resid mbdelay (usec)		7.50597E-03	+/- 1.1E-04
Sband delay (usec)	1.09326074268E+03		Apriori clock (usec)		1.0660861E+01		Resid sbdelay (usec)		2.51575E-03	+/- 8.8E-04
Phase delay (usec)	1.09325822644E+03		Apriori clockrate (us/s)		-1.3148000E-07		Resid phdelay (usec)		-4.92772E-07	+/- 3.8E-07
Delay rate (us/s)	1.45647479205E+00		Apriori rate (us/s)		1.45647469465E+00		Resid rate (us/s)		9.73983E-08	+/- 1.8E-09
Total phase (deg)	225.1		Apriori accel (us/s/s)		-1.46019411242E-05		Resid phase (deg)		-15.3	+/- 11.8

	RMS	Theor.	Amplitude	0.188 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	42.2	28.2	Search (2048X32)	0.180	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	56.1	49.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	65.9	16.6	Inc. seg. avg.	0.200	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	76.3	29.0	Inc. frq. avg.	0.302	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

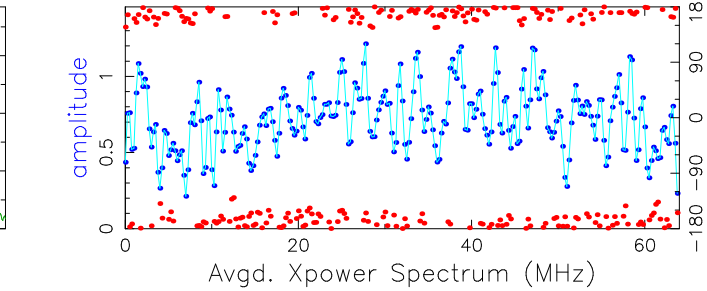
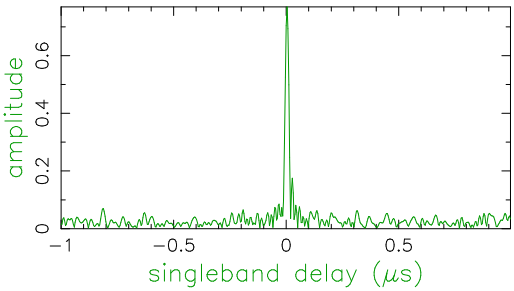
I: az 65.5 el 49.8 pa -81.1 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -11173.732 -1696.287 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/IN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/IN.W.84.2L956A



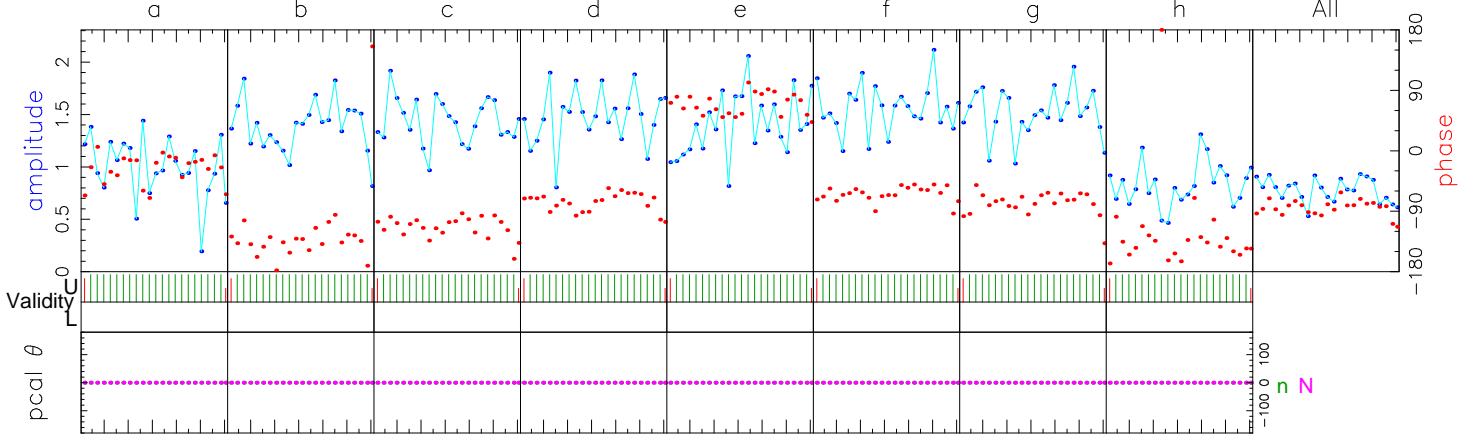
Fringe quality 5

SNR 39.6  
Int time 354.693  
Amp 0.769  
Phase -83.6  
PFD 0.0e+00  
Delays (us)  
SBD 0.003774  
MBD -0.004519  
Fringe rate (Hz)  
0.006125  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054502.56  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130540  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



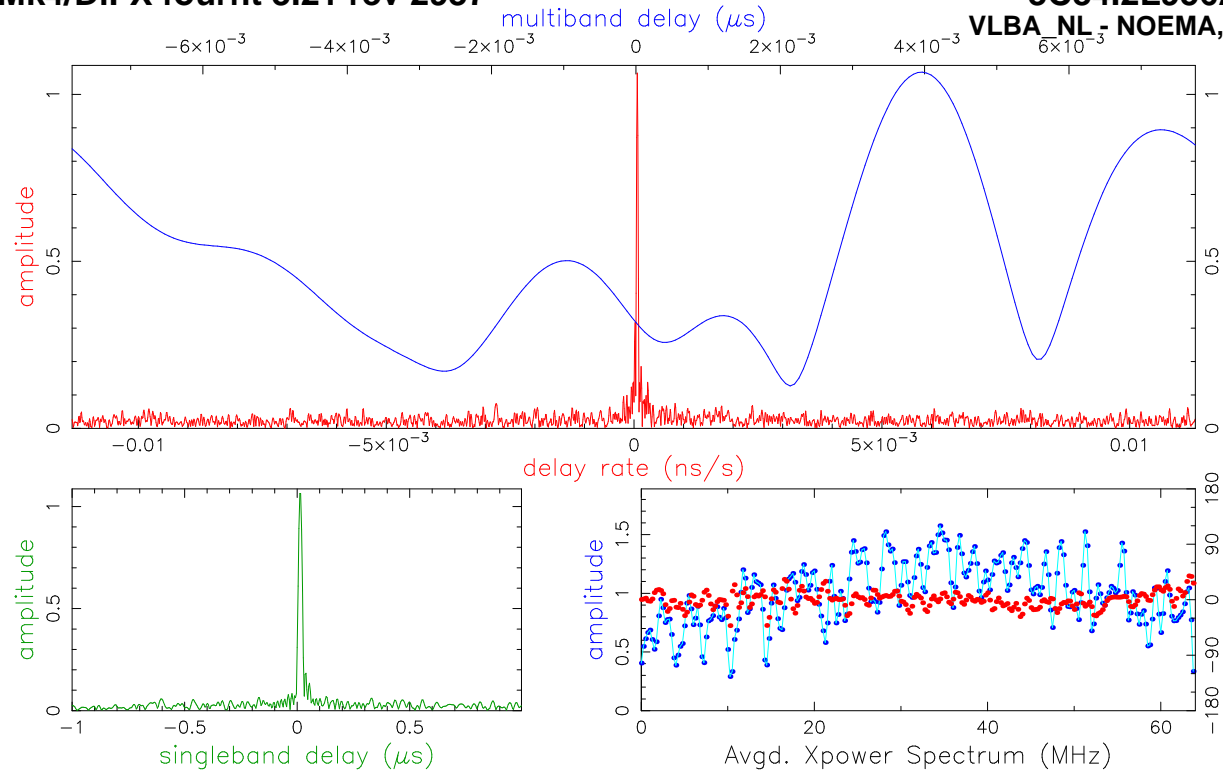
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-25.9	-133.2	-112.8	-76.3	70.5	-63.7	-75.8	-135.9	Phase	-83.6
	0.9	1.3	1.4	1.4	1.3	1.5	1.5	0.8	Ampl.	1.3
	256.2	257.7	258.6	258.3	258.7	258.2	257.9	256.0	Sbd box	258.0
U/L	696/0	696/0	696/0	696/0	696/0	696/0	696/0	696/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.69231215344E+03	Apriori delay (usec)	3.69230104783E+03	Resid mbdelay (usec)	-4.51939E-03	+/-	2.7E-05
Sband delay (usec)	3.69230482208E+03	Apriori clock (usec)	3.6974396E+01	Resid sbdelay (usec)	3.77425E-03	+/-	2.2E-04
Phase delay (usec)	3.69230104513E+03	Apriori clockrate (us/s)	4.2387000E-07	Resid phdelay (usec)	-2.69581E-06	+/-	9.3E-08
Delay rate (us/s)	1.23682785504E+00	Apriori rate (us/s)	1.23682778393E+00	Resid rate (us/s)	7.11094E-08	+/-	4.5E-10
Total phase (deg)	10.0	Apriori accel (us/s/s)	-2.21863194441E-05	Resid phase (deg)	-83.6	+/-	2.9

ph/seg (deg)	RMS 10.7	Theor. 6.9	Amplitude Search (2048X32)	0.769 +/- 0.019	0.738	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	14.3	12.1	Interp.	0.000	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	74.9	4.1	Inc. seg. avg.	0.777	0.777	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	73.6	7.1	Inc. frq. avg.	1.271	1.271	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

n: az 77.8 el 62.5 pa -76.8 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -9505.968 -1701.338 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/nN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/nN.W.110.2L956A

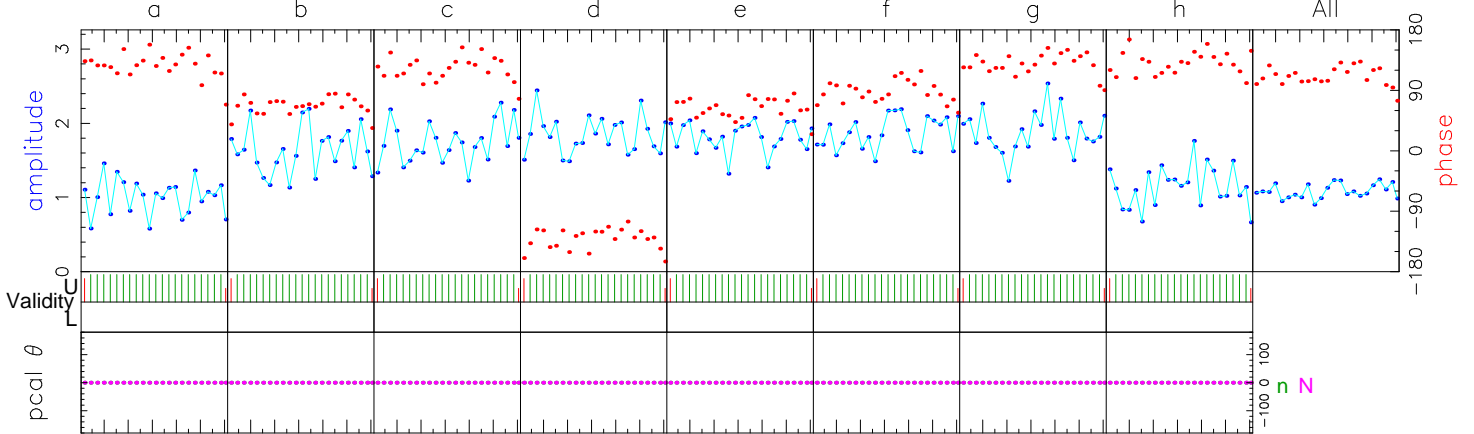


Fringe quality 4

SNR 56.0  
Int time 354.694  
Amp 1.087  
Phase 111.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.013680  
MBD 0.003880  
Fringe rate (Hz)  
0.006120  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054502.56  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130543  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



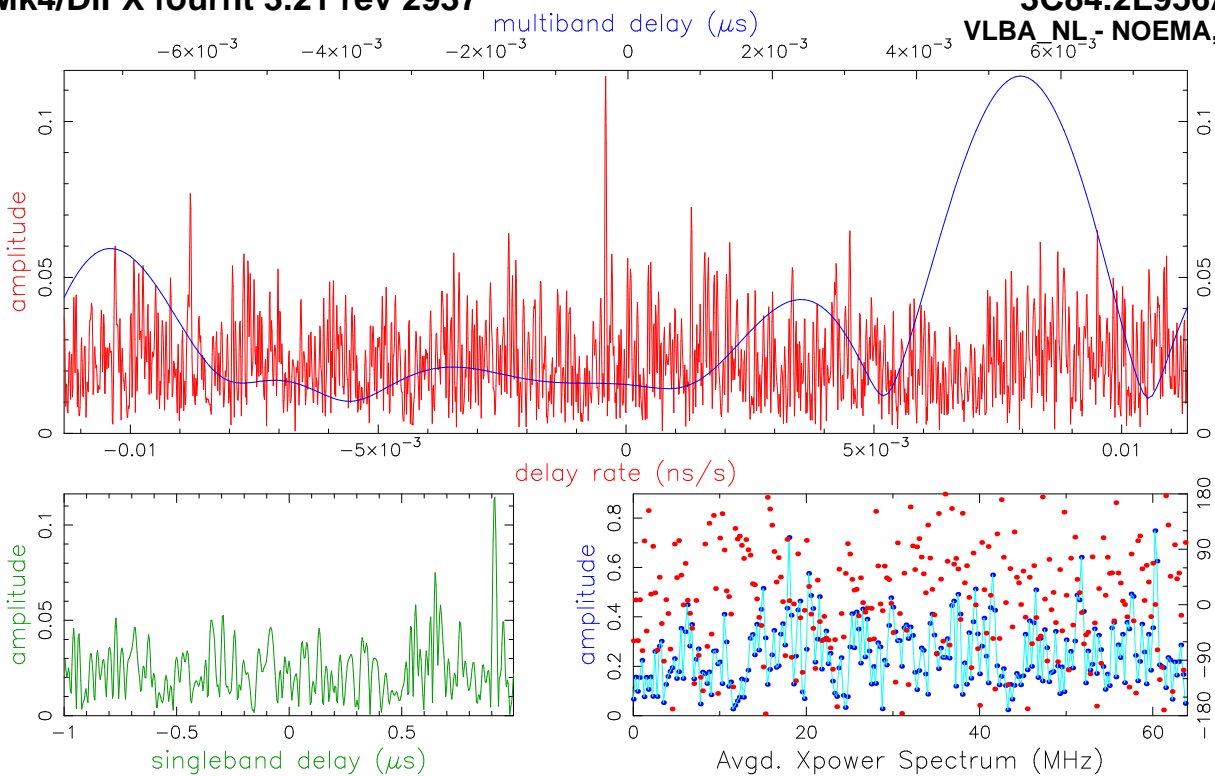
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	127.9	68.3	123.1	-129.7	64.1	89.0	130.6	130.0	Phase	111.8
	1.0	1.6	1.7	1.8	1.8	1.8	1.8	1.1	Ampl.	1.6
	258.5	261.0	261.3	261.2	261.1	261.1	260.3	258.8	Sbd box	260.5
U/L	696/0	696/0	696/0	696/0	696/0	696/0	696/0	696/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.69232055247E+03		Apriori delay (usec)		3.69230104783E+03		Resid mbdelay (usec)		3.87964E-03	+/- 1.9E-05
Sband delay (usec)	3.69231472833E+03		Apriori clock (usec)		3.6974396E+01		Resid sbdelay (usec)		1.36805E-02	+/- 1.5E-04
Phase delay (usec)	3.69230105143E+03		Apriori clockrate (us/s)		4.2387000E-07		Resid phdelay (usec)		3.60452E-06	+/- 6.6E-08
Delay rate (us/s)	1.23682785498E+00		Apriori rate (us/s)		1.23682778393E+00		Resid rate (us/s)		7.10471E-08	+/- 3.2E-10
Total phase (deg)	205.4		Apriori accel (us/s/s)		-2.21863194441E-05		Resid phase (deg)		111.8	+/- 2.0

ph/seg (deg) 12.6 4.9 Search (2048X32) 1.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 8.7 8.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 57.4 2.9 Inc. seg. avg. 1.086 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 52.6 5.1 Inc. frq. avg. 1.565 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
n: az 77.8 el 62.5 pa -76.8 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -9505.968 -1701.338 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/nN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/nN.W.134.2L956A

Mk4/DiFX fourfit 3.21 rev 2937

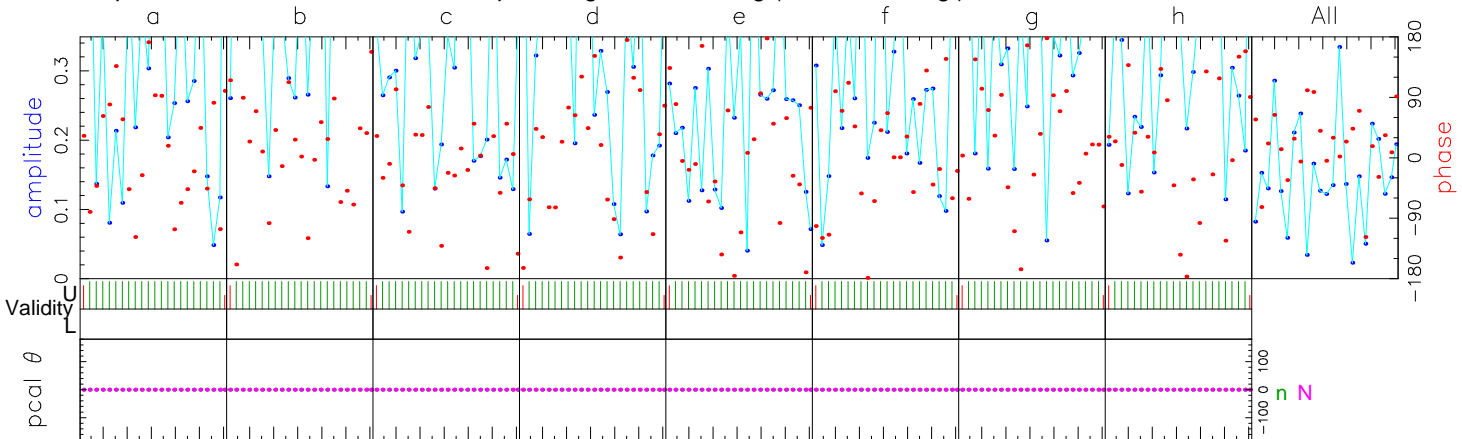
3C84.2L956A, No0058, nN

VLBA\_NL- NOEMA, fgroup W, pol LR



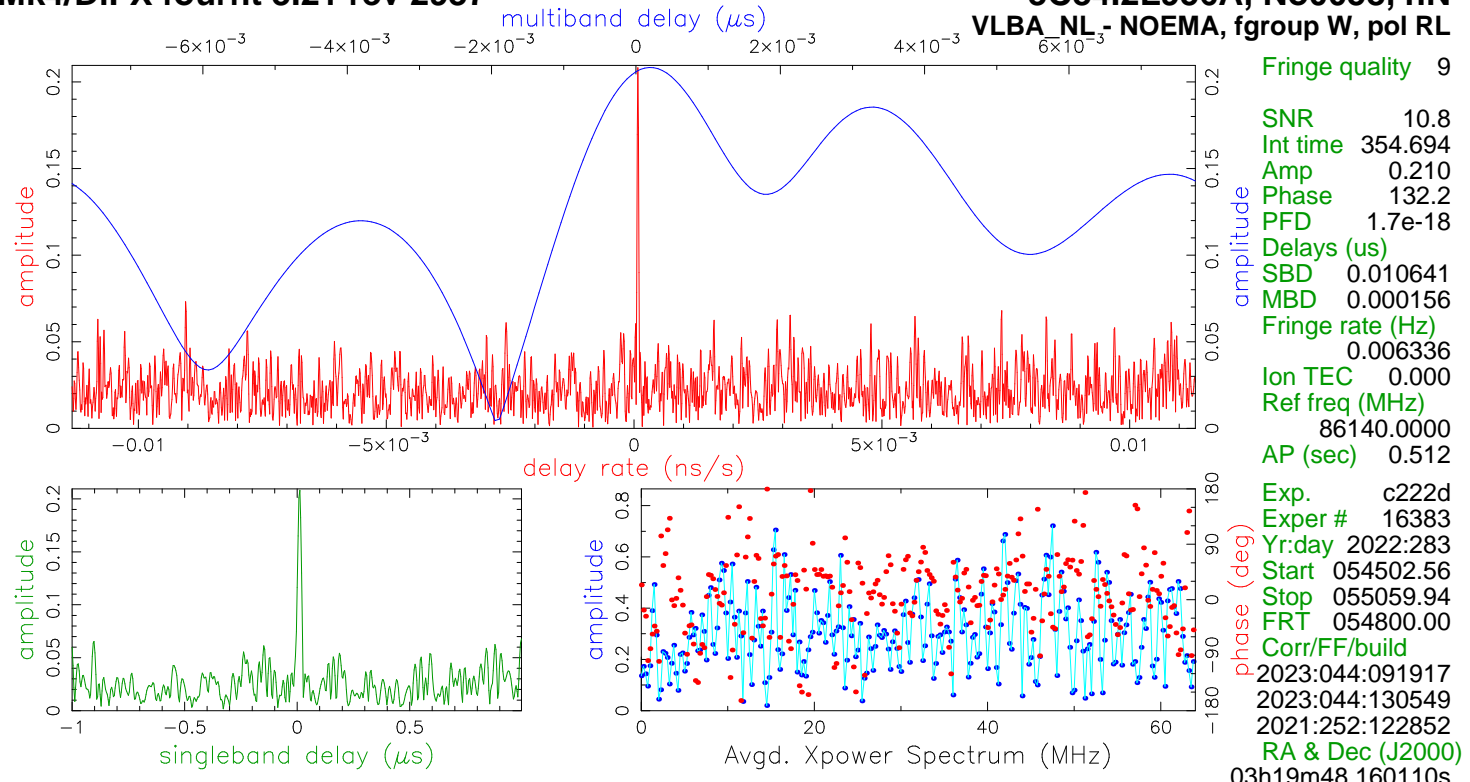
Fringe quality 0  
 SNR 6.0  
 Int time 354.693  
 Amp 0.116  
 Phase 22.0  
 PFD 4.2e-01  
 Delays (us)  
 SBD 0.912437  
 MBD 0.005398  
 Fringe rate (Hz) -0.035280  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. c222d  
 Exper # 16383  
 Yr:day 2022:283  
 Start 054502.56  
 Stop 055059.94  
 FRT 054800.00  
 Corr/FF/build  
 2023:044:091917  
 2023:044:130546  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160110s  
 +41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

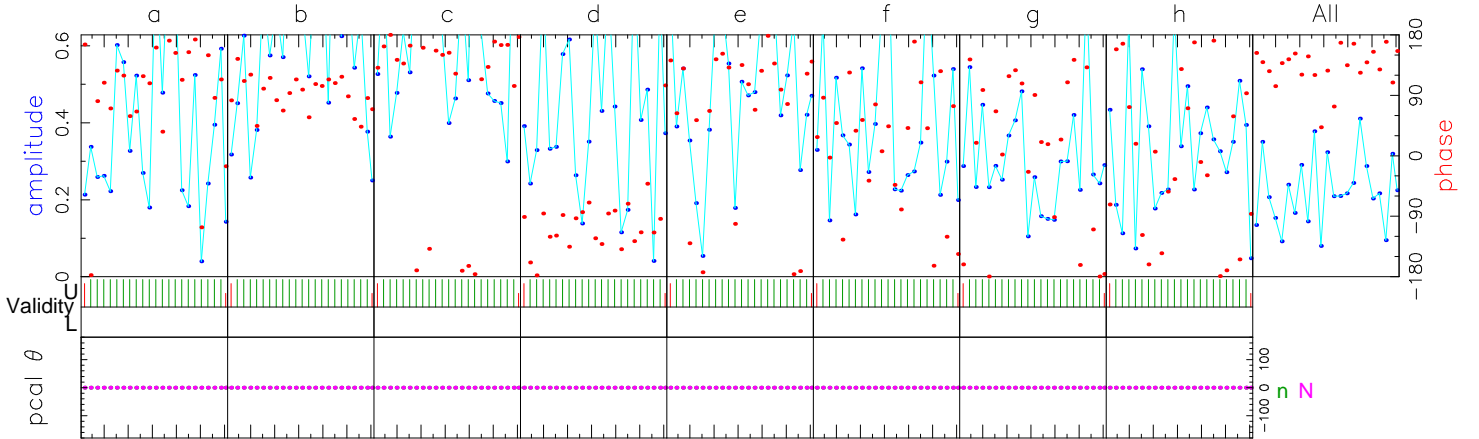


86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
13.7	27.8	4.4	65.0	8.5	8.0	19.3	44.5	Phase	22.0	
0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1	
508.8	491.9	423.1	58.7	132.5	476.4	127.0	12.3	Sbd box	490.6	
U/L 696/0	696/0	696/0	696/0	696/0	696/0	696/0	696/0	APs used		
n 0	0	0	0	0	0	0	0	PC freqs		
N 0	0	0	0	0	0	0	0	PC freqs		
n:N 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
n:N 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
n 1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
N 1000	1000	1000	1000	1000	1000	1000	1000			
n W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
N W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
Group delay (usec)(sbd)										
3.69321269631E+03		Apriori delay (usec)		3.69230104783E+03		Resid mbdelay (usec)		5.39848E-03	+/- 1.8E-04	
Sband delay (usec)		3.69321348458E+03		Apriori clock (usec)		3.6974396E+01		Resid sbdelay (usec)	9.12437E-01	+/- 1.4E-03
Phase delay (usec)		3.69230104854E+03		Apriori clockrate (us/s)		4.2387000E-07		Resid phdelay (usec)	7.10176E-07	+/- 6.2E-07
Delay rate (us/s)		1.23682737437E+00		Apriori rate (us/s)		1.23682778393E+00		Resid rate (us/s)	-4.09564E-07	+/- 3.0E-09
Total phase (deg)		115.7		Apriori accel (us/s/s)		-2.21863194441E-05		Resid phase (deg)	22.0	+/- 19.1
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5										
ph/seg (deg)		50.4	Theor. 45.8	Search (2048X32) 0.113		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000
amp/seg (%)		71.1	80.0	Interp. 0.000		Bits/sample: 2x2 SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)		22.9	27.1	Inc. seg. avg. 0.113		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)		41.8	47.2	Inc. frq. avg. 0.108		Data rate(Mb/s): 2048		ion window (TEC)	0.00	0.00
n: az 77.8 el 62.5 pa -76.8 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -9505.968 -1701.338 simultaneous interpolator										
Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/nN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/nN.W.155.2L956A										





Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	127.3	94.8	160.4	-105.1	132.7	56.1	120.8	172.7	Phase	132.2
	0.3	0.6	0.6	0.4	0.4	0.2	0.2	0.0	Ampl.	0.3
	257.5	260.2	260.5	260.2	260.3	260.3	17.5	197.7	Sbd box	259.7
U/L	696/0	696/0	696/0	696/0	696/0	696/0	696/0	696/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.69231682853E+03	Apriori delay (usec)	3.69230104783E+03	Resid mbdelay (usec)	1.55700E-04	+/-	1.0E-04
Sband delay (usec)	3.69231168833E+03	Apriori clock (usec)	3.6974396E+01	Resid sbdelay (usec)	1.06405E-02	+/-	8.0E-04
Phase delay (usec)	3.69230105209E+03	Apriori clockrate (us/s)	4.2387000E-07	Resid phdelay (usec)	4.26158E-06	+/-	3.4E-07
Delay rate (us/s)	1.23682785749E+00	Apriori rate (us/s)	1.23682778393E+00	Resid rate (us/s)	7.35561E-08	+/-	1.7E-09
Total phase (deg)	225.8	Apriori accel (us/s/s)	-2.21863194441E-05	Resid phase (deg)	132.2	+/-	10.6

ph/seg (deg)	RMS 29.3	Theor. 25.4	Amplitude Search (2048X32)	0.210 +/- 0.019	0.202	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	43.6	44.4	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	64.3	15.0	Inc. seg. avg.	0.206	0.206	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	101.8	26.2	Inc. frq. avg.	0.311	0.311	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

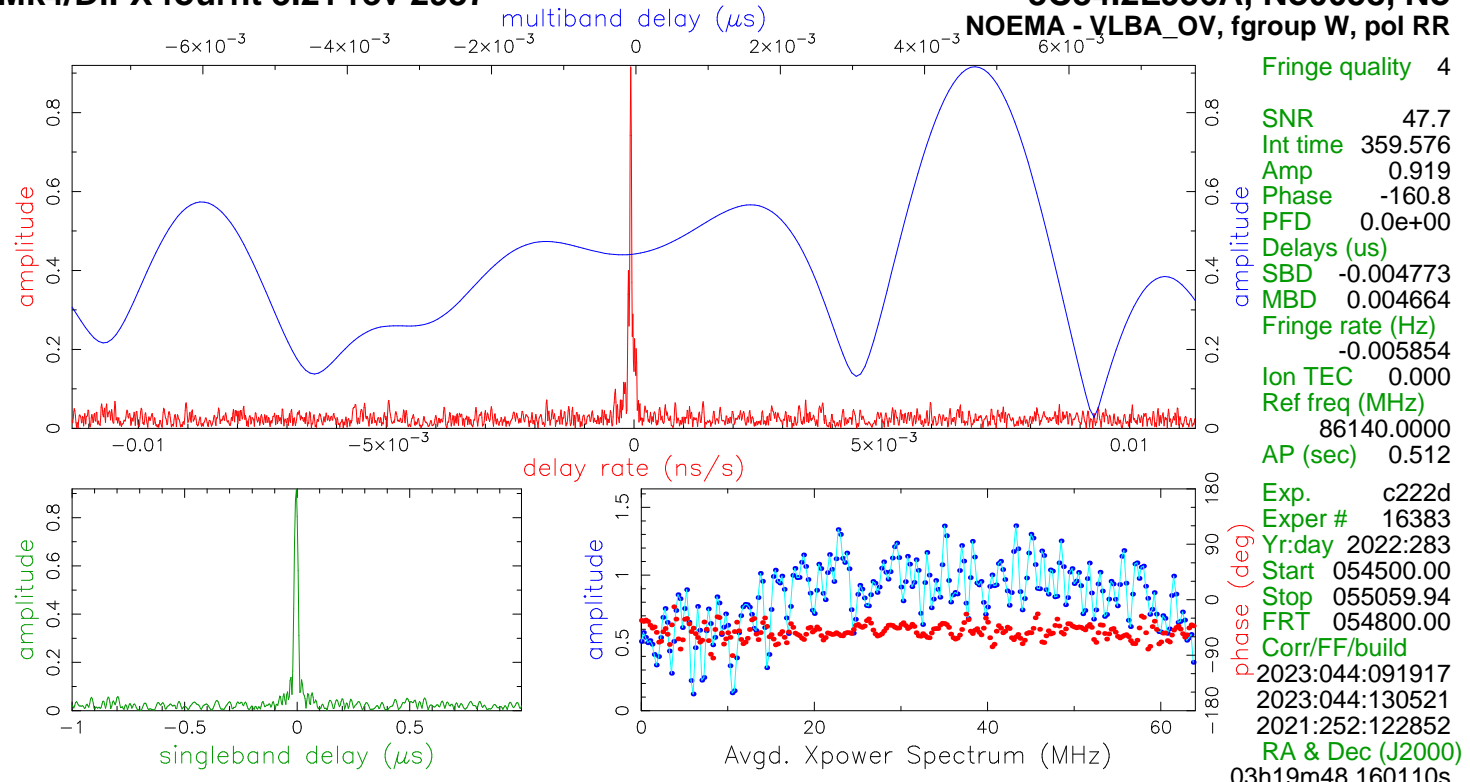
n: az 77.8 el 62.5 pa -76.8 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -9505.968 -1701.338 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/nN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/nN.W.177.2L956A

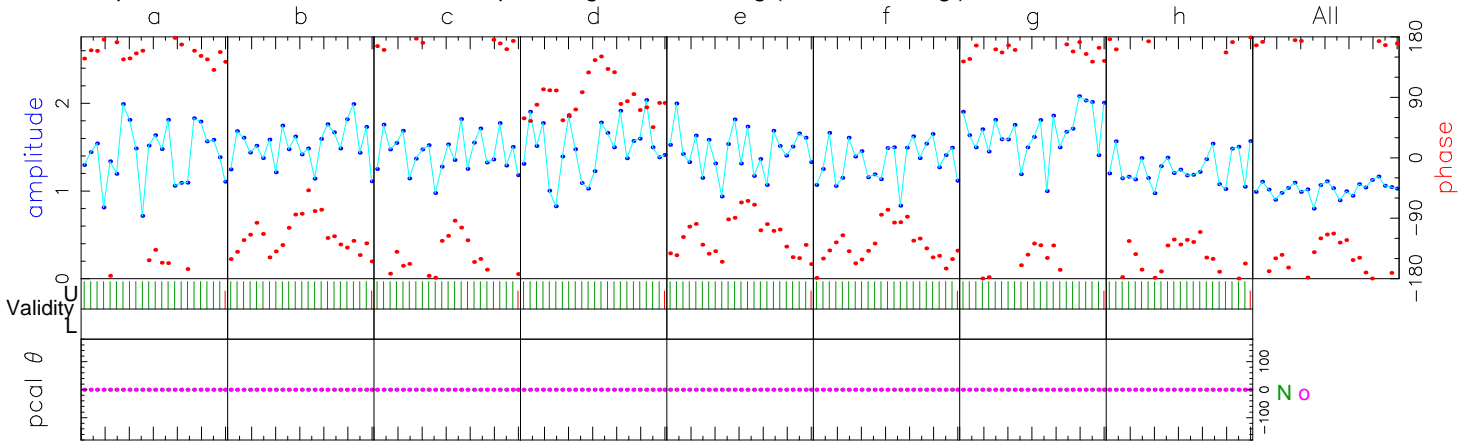


Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, No  
NOEMA - VLBA\_OV, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

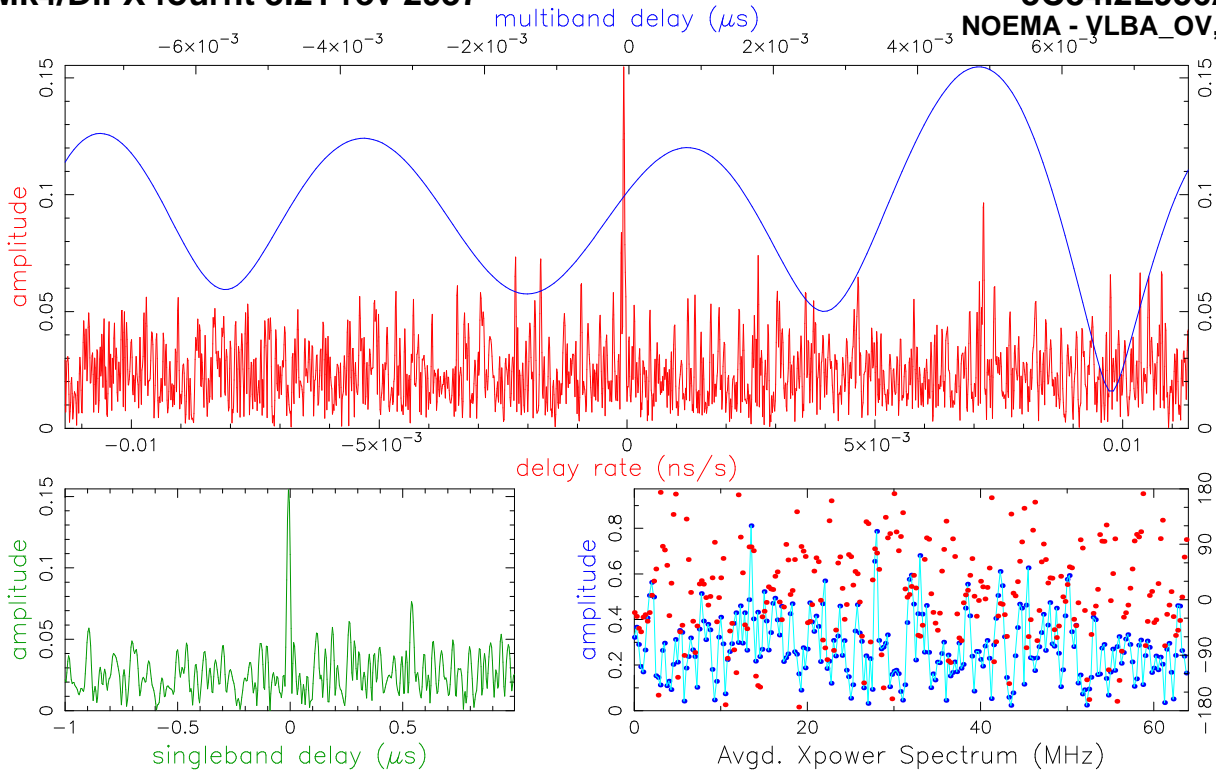


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	167.8	-116.9	-162.1	88.3	-116.8	-130.7	175.3	-158.8	Phase	-160.8
	1.3	1.4	1.2	1.3	1.3	1.2	1.5	1.1	Ampl.	1.3
	257.5	255.1	254.9	254.9	255.1	254.8	255.8	257.7	Sbd box	255.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.85194657102E+02		Apriori delay (usec)	9.85205617917E+02	Resid mbdelay (usec)	4.66418E-03	+/-	2.3E-05		
Sband delay (usec)	9.85200844917E+02		Apriori clock (usec)	-2.2553070E+01	Resid sbdelay (usec)	-4.77300E-03	+/-	1.8E-04		
Phase delay (usec)	9.85205612732E+02		Apriori clockrate (us/s)	-3.2452001E-07	Resid phdelay (usec)	-5.18489E-06	+/-	7.8E-08		
Delay rate (us/s)	-1.54909003148E+00		Apriori rate (us/s)	-1.54908996352E+00	Resid rate (us/s)	-6.79585E-08	+/-	3.7E-10		
Total phase (deg)		173.1	Apriori accel (us/s/s)	1.96182436512E-06	Resid phase (deg)	-160.8	+/-	2.4		

ph/seg (deg) 26.5 5.8 Search (2048X32) 0.896 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 14.3 10.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 55.7 3.4 Inc. seg. avg. 1.018 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 41.7 5.9 Inc. frq. avg. 1.288 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 N: az 288.1 el 46.8 pa 64.9 o: az 63.9 el 41.7 pa -72.8 u,v (fr/asec) 11861.993 673.695 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/No..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/No.W.32.2L956A

Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, No  
NOEMA - VLBA\_OV, fgroup W, pol LR

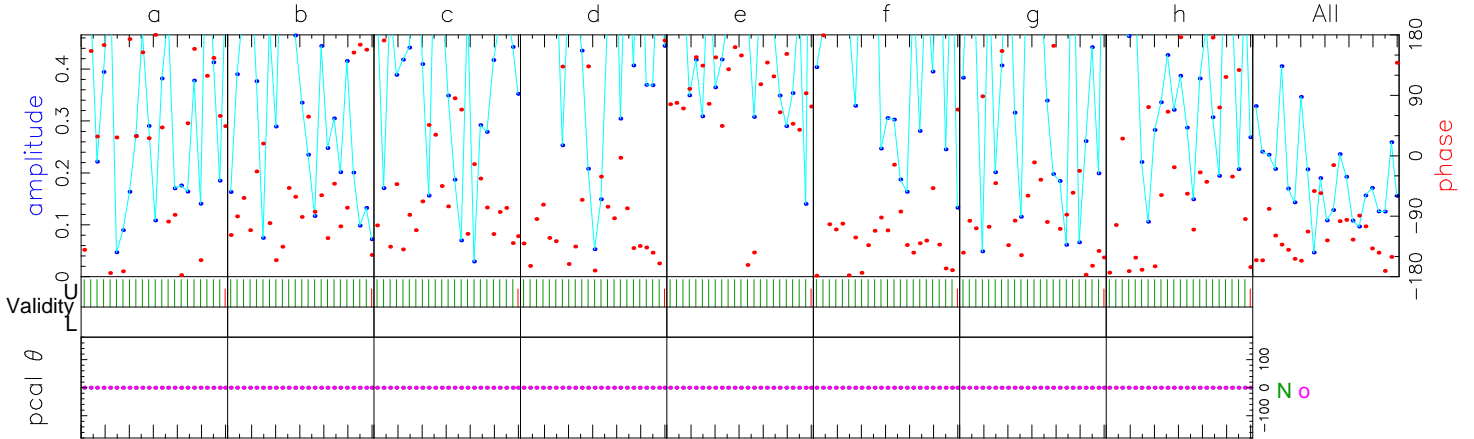


Fringe quality 9

SNR 8.1  
Int time 359.576  
Amp 0.155  
Phase -127.0  
PFD 2.7e-07  
Delays (us)  
SBD -0.006990  
MBD 0.004888  
Fringe rate (Hz)  
-0.005764  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130524  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



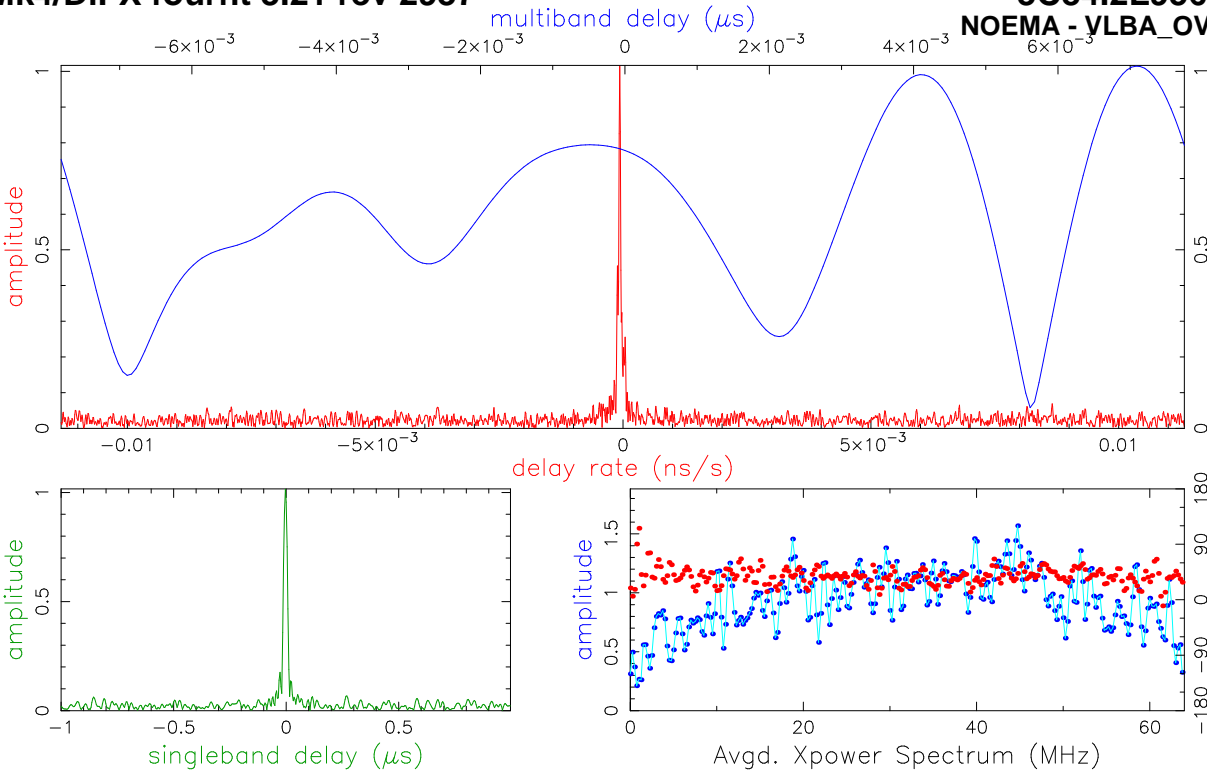
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	148.5	-88.1	-89.0	-120.9	104.6	-131.6	-102.0	-127.7	Phase	-127.0
	0.1	0.2	0.3	0.4	0.4	0.4	0.2	0.1	Ampl.	0.2
	182.1	255.0	254.5	256.0	256.3	256.2	256.4	259.1	Sbd box	255.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	9.85194881352E+02	Apriori delay (usec)	9.85205617917E+02	Resid mbdelay (usec)	4.88843E-03	+/-	1.3E-04
Sband delay (usec)	9.85198628417E+02	Apriori clock (usec)	-2.2553070E+01	Resid sbdelay (usec)	-6.98950E-03	+/-	1.1E-03
Phase delay (usec)	9.85205613823E+02	Apriori clockrate (us/s)	-3.2452001E-07	Resid phdelay (usec)	-4.09407E-06	+/-	4.6E-07
Delay rate (us/s)	-1.54909003043E+00	Apriori rate (us/s)	-1.54908996352E+00	Resid rate (us/s)	-6.69098E-08	+/-	2.2E-09
Total phase (deg)	206.9	Apriori accel (us/s/s)	1.96182436512E-06	Resid phase (deg)	-127.0	+/-	14.2

ph/seg (deg)	43.0	Theor.	34.1	Amplitude	0.155 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	59.1		59.5	Search (2048X32)	0.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	67.4		20.1	Inc. seg. avg.	0.162	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	94.4		35.1	Inc. frq. avg.	0.245	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

N: az 288.1 el 46.8 pa 64.9 o: az 63.9 el 41.7 pa -72.8 u,v (fr/asec) 11861.993 673.695 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/No..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/No.W.56.2L956A

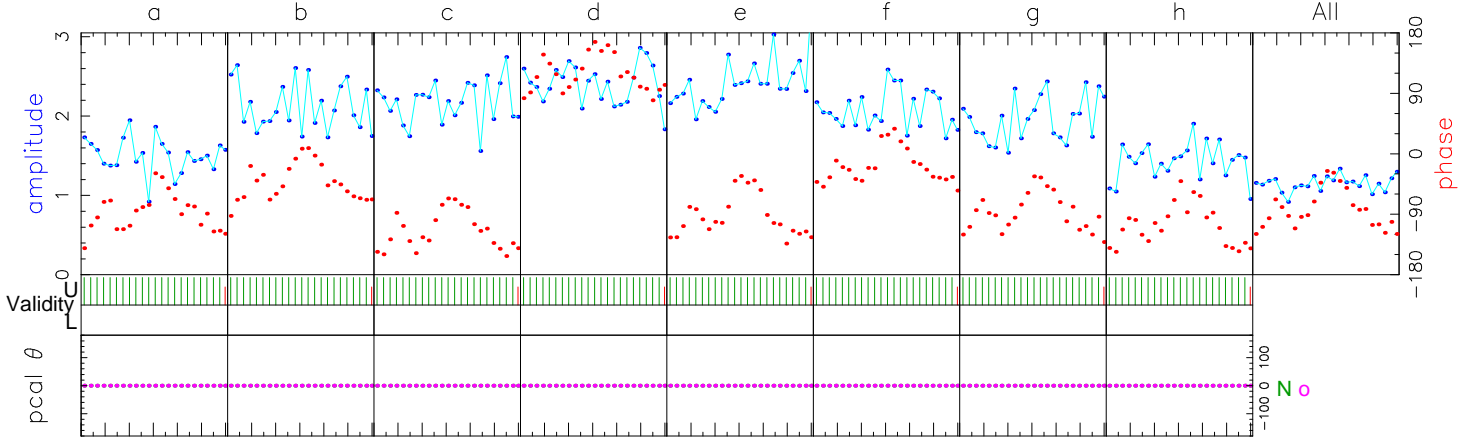


Fringe quality 3

SNR 52.7  
Int time 359.576  
Amp 1.017  
Phase -82.4  
PFD 0.0e+00  
Delays (us)  
SBD -0.003323  
MBD 0.007106  
Fringe rate (Hz)  
-0.005850  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

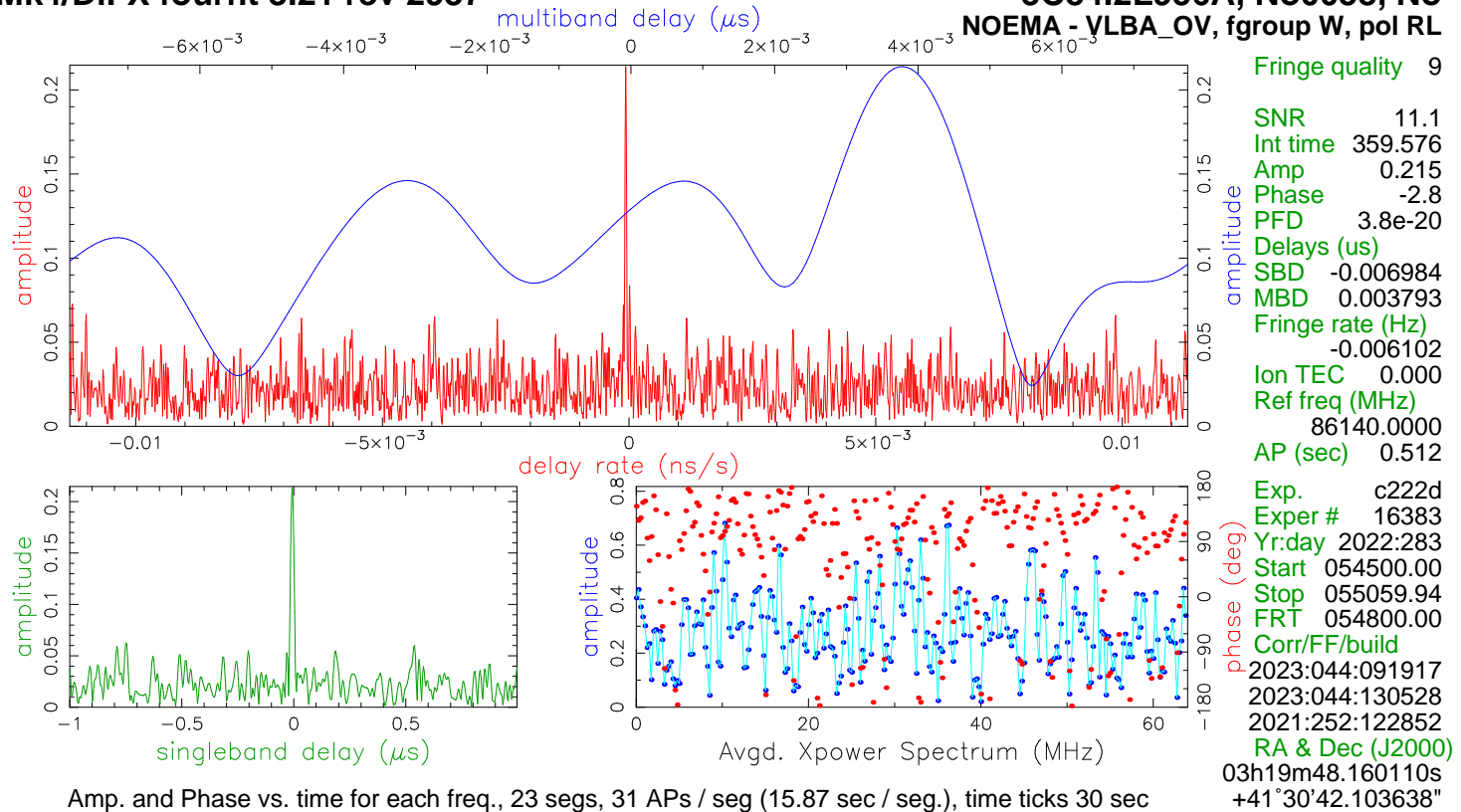
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130517  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

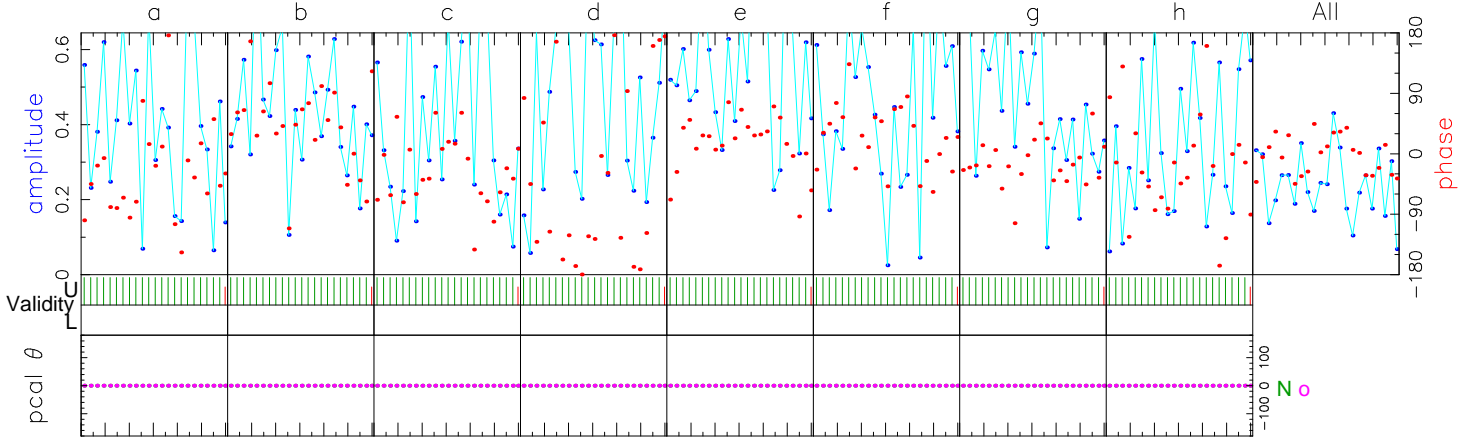


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-88.5	-42.8	-115.4	117.4	-92.8	-17.8	-86.5	-105.4		-82.4
	1.3	1.9	1.9	2.2	2.1	1.9	1.7	1.3		1.8
	257.6	256.0	255.3	255.5	255.6	255.4	256.0	257.8		256.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
N	0	0	0	0	0	0	0	0		
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	9.85197098633E+02		Apriori delay (usec)		9.85205617917E+02		Resid mbdelay (usec)		7.10572E-03	+/- 2.1E-05
Sband delay (usec)	9.85202294667E+02		Apriori clock (usec)		-2.2553070E+01		Resid sbdelay (usec)		-3.32325E-03	+/- 1.6E-04
Phase delay (usec)	9.85205615259E+02		Apriori clockrate (us/s)		-3.2452001E-07		Resid phdelay (usec)		-2.65844E-06	+/- 7.0E-08
Delay rate (us/s)	-1.54909003143E+00		Apriori rate (us/s)		-1.54908996352E+00		Resid rate (us/s)		-6.79160E-08	+/- 3.4E-10
Total phase (deg)	251.4		Apriori accel (us/s/s)		1.96182436512E-06		Resid phase (deg)		-82.4	+/- 2.2

ph/seg (deg) 28.0 5.2 Search (2048X32) 0.983 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 16.0 9.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 74.4 3.1 Inc. seg. avg. 1.145 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 81.7 5.4 Inc. frq. avg. 1.785 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 N: az 288.1 el 46.8 pa 64.9 o: az 63.9 el 41.7 pa -72.8 u,v (fr/asec) 11861.993 673.695 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/No..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/No.W.6.2L956A



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



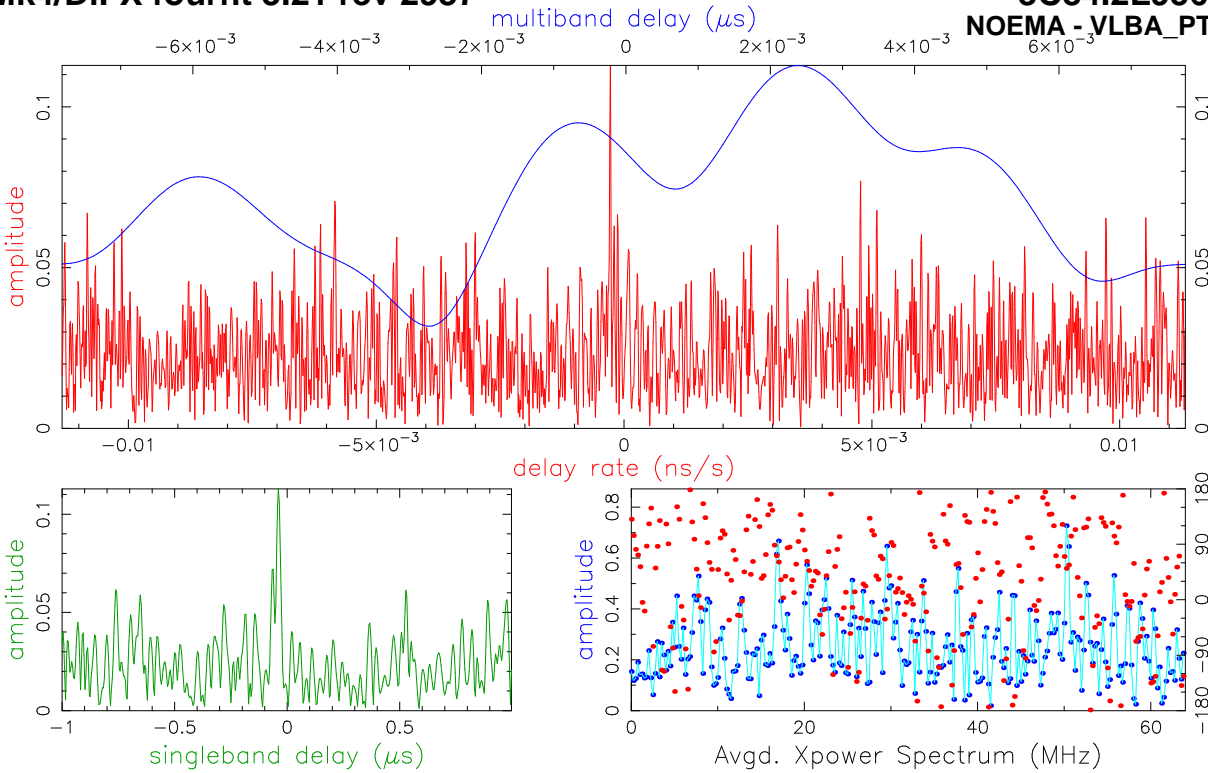
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-40.6	49.4	-20.2	-151.2	21.6	22.2	-12.6	-34.9	Phase	-2.8
	0.3	0.3	0.3	0.3	0.5	0.3	0.4	0.2	Ampl.	0.3
	255.0	254.5	254.9	253.9	255.3	254.5	255.5	256.9	Sbd box	255.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	9.85193785915E+02	Apriori delay (usec)	9.85205617917E+02	Resid mbdelay (usec)	3.79300E-03	+/-	9.7E-05
Sband delay (usec)	9.85198633667E+02	Apriori clock (usec)	-2.2553070E+01	Resid sbdelay (usec)	-6.98425E-03	+/-	7.7E-04
Phase delay (usec)	9.85205617828E+02	Apriori clockrate (us/s)	-3.2452001E-07	Resid phdelay (usec)	-8.95015E-08	+/-	3.3E-07
Delay rate (us/s)	-1.54909003436E+00	Apriori rate (us/s)	-1.54908996352E+00	Resid rate (us/s)	-7.08388E-08	+/-	1.6E-09
Total phase (deg)	331.1	Apriori accel (us/s/s)	1.96182436512E-06	Resid phase (deg)	-2.8	+/-	10.3

ph/seg (deg)	28.0	Theor.	24.7	Amplitude	0.215 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	41.3		43.0	Search (2048X32)	0.205	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	69.3		14.5	Inc. seg. avg.	0.222	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	61.1		25.4	Inc. frq. avg.	0.311	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

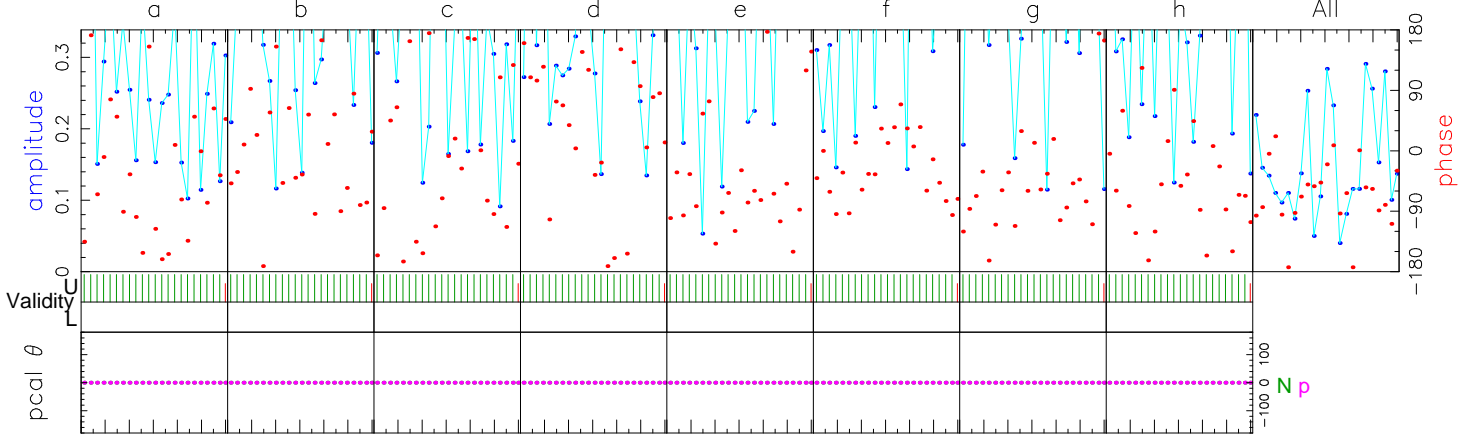
N: az 288.1 el 46.8 pa 64.9 o: az 63.9 el 41.7 pa -72.8 u,v (fr/asec) 11861.993 673.695 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/No..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/No.W.76.2L956A



Fringe quality 0  
SNR 5.9  
Int time 359.838  
Amp 0.113  
Phase -57.8  
PFD 7.0e-01  
Delays (us)  
SBD -0.038911  
MBD 0.002378  
Fringe rate (Hz)  
-0.024028  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130541  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

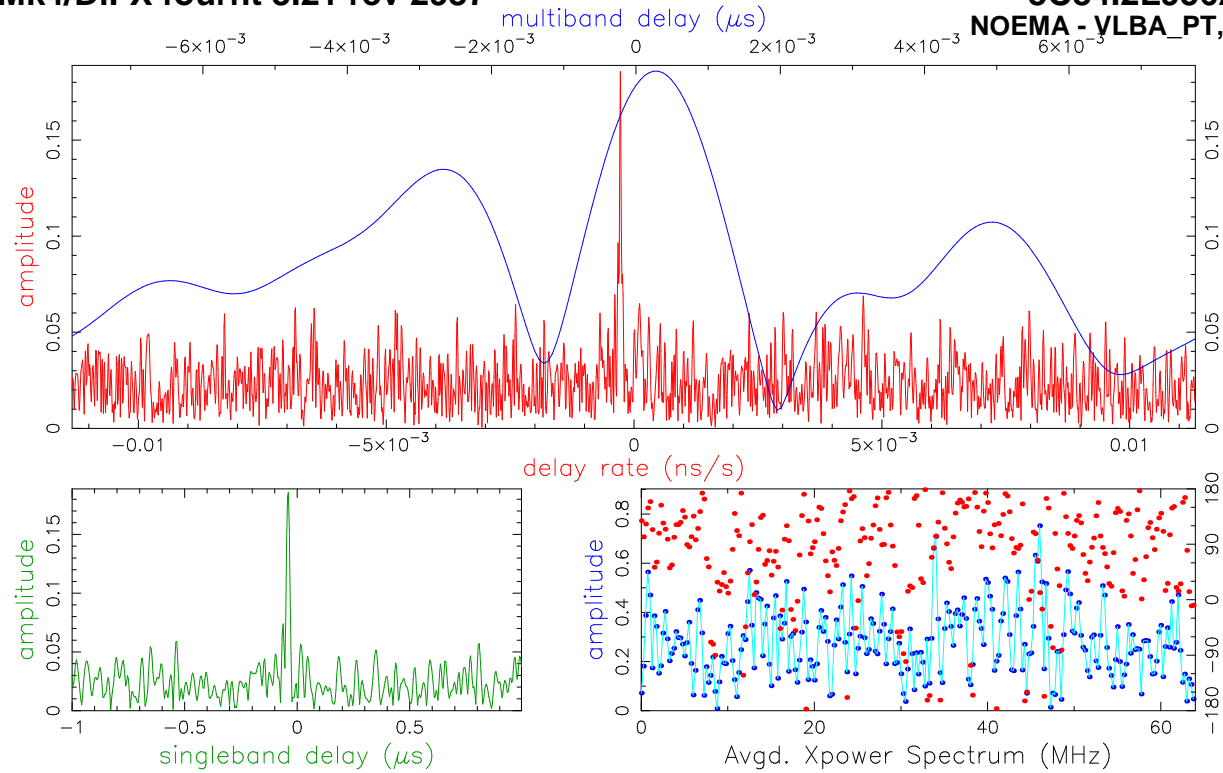


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-115.0	-0.3	-113.3	122.4	-89.8	-26.9	-65.5	-61.5	Phase	-57.8
	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.2	Ampl.	0.2
	469.2	381.1	244.9	245.9	245.8	246.7	246.4	249.2	Sbd box	247.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.11600982517E+02		Apriori delay (usec)		-6.11556485642E+02		Resid mbdelay (usec)		2.37813E-03	+/- 1.9E-04
Sband delay (usec)	-6.11595397142E+02		Apriori clock (usec)		-1.4054318E+01		Resid sbdelay (usec)		-3.89115E-02	+/- 1.5E-03
Phase delay (usec)	-6.11556487508E+02		Apriori clockrate (us/s)		-3.3799999E-08		Resid phdelay (usec)		-1.86532E-06	+/- 6.3E-07
Delay rate (us/s)	-1.48920857258E+00		Apriori rate (us/s)		-1.48920829365E+00		Resid rate (us/s)		-2.78937E-07	+/- 3.0E-09
Total phase (deg)	-300.2		Apriori accel (us/s/s)		1.35968699758E-05		Resid phase (deg)		-57.8	+/- 19.6

	RMS	Theor.	Amplitude	0.113 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	49.7	46.9	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	77.1	81.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	85.6	27.7	Inc. seg. avg.	0.115	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	104.3	48.3	Inc. frq. avg.	0.173	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

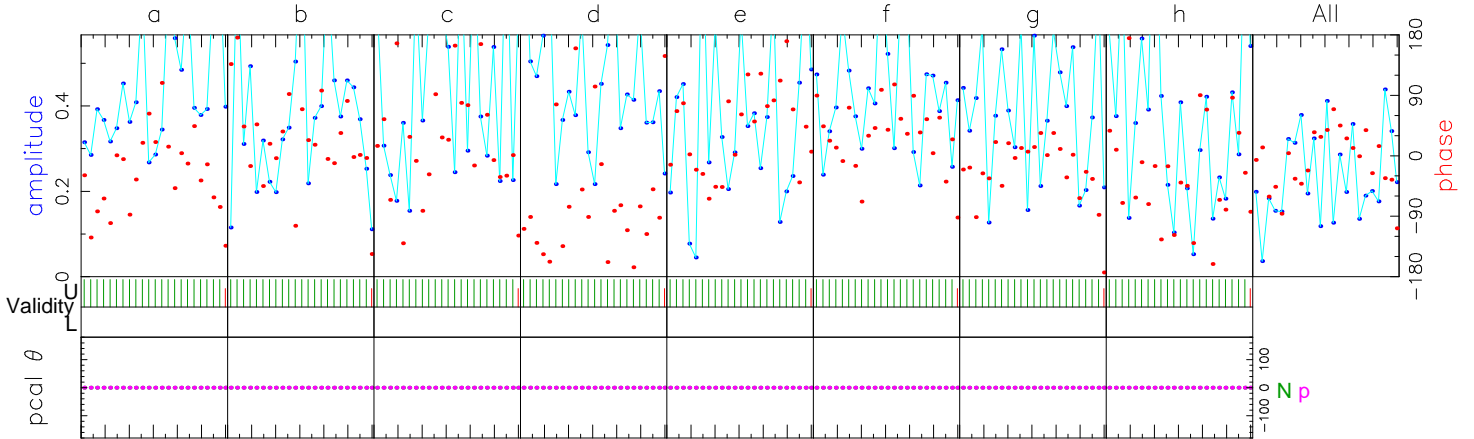
N: az 288.1 el 46.8 pa 64.9 p: az 63.6 el 47.8 pa -82.1 u,v (fr/asec) 11422.349 1763.177 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/Np..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/Np.W.119.2L956A





Fringe quality 9  
SNR 9.8  
Int time 359.838  
Amp 0.189  
Phase -6.1  
PFD 5.0e-14  
Delays (us)  
SBD -0.040681  
MBD 0.000228  
Fringe rate (Hz)  
-0.024269  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130545  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

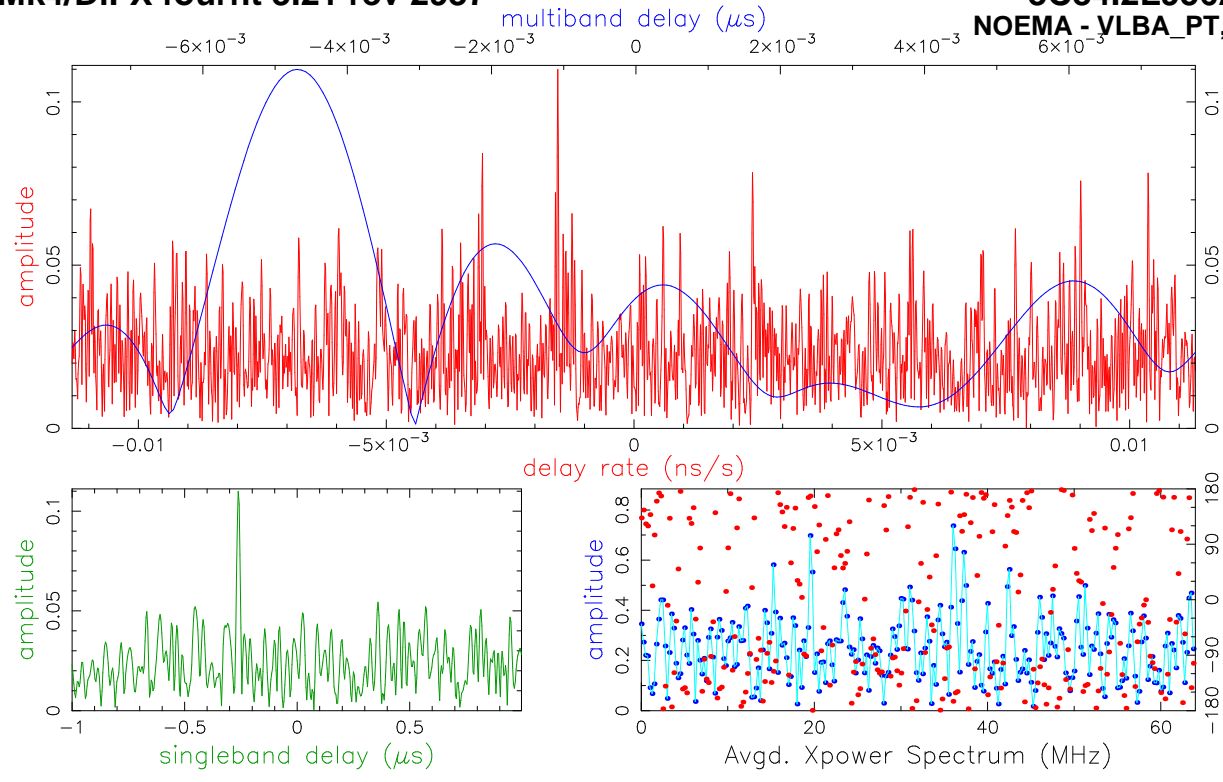
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-27.9	26.9	10.9	-108.3	34.7	37.2	-13.9	-26.3	Phase	-6.1
	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	Ampl.	0.2
	248.0	245.4	245.8	245.7	245.3	246.4	246.7	248.4	Sbd box	246.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.11603132642E+02		Apriori delay (usec)		-6.11556485642E+02		Resid mbdelay (usec)		2.28000E-04	+/- 1.1E-04
Sband delay (usec)	-6.11597166142E+02		Apriori clock (usec)		-1.4054318E+01		Resid sbdelay (usec)		-4.06805E-02	+/- 8.8E-04
Phase delay (usec)	-6.11556485839E+02		Apriori clockrate (us/s)		-3.3799999E-08		Resid phdelay (usec)		-1.96478E-07	+/- 3.8E-07
Delay rate (us/s)	-1.48920857539E+00		Apriori rate (us/s)		-1.48920829365E+00		Resid rate (us/s)		-2.81740E-07	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		1.35968699758E-05		Resid phase (deg)		-6.1	+/- 11.7

ph/seg (deg) 41.8 28.1 Amplitude 0.189 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 60.9 49.0 Search (2048X32) 0.180 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 52.1 16.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 45.5 28.9 Inc. seg. avg. 0.212 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 N: az 288.1 el 46.8 pa 64.9 p: az 63.6 el 47.8 pa -82.1 u,v (fr/asec) 11422.349 1763.177 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/Np..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/Np.W.146.2L956A



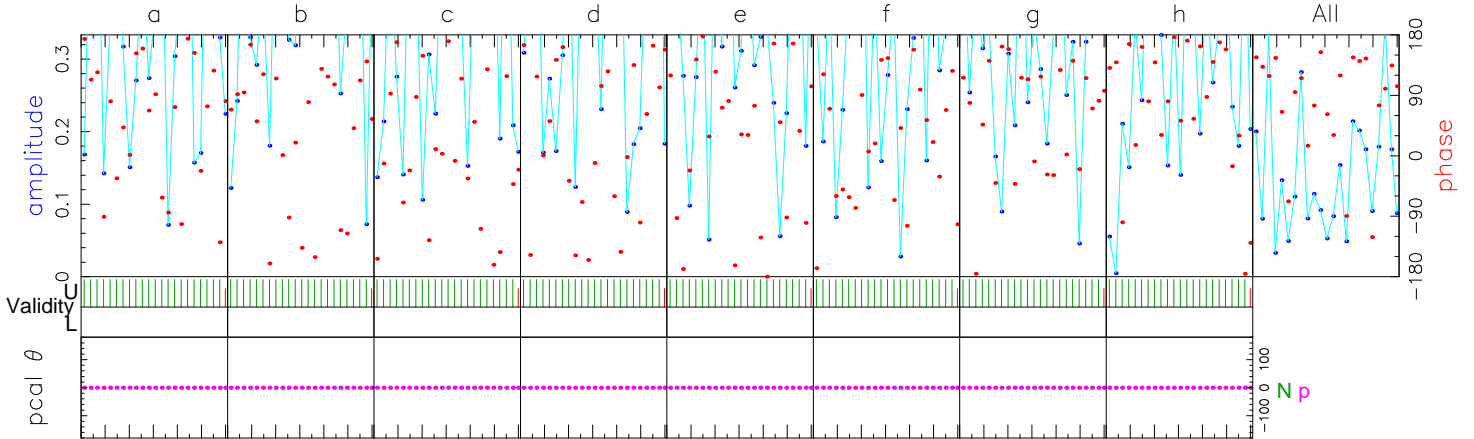


Fringe quality 0

SNR 5.7  
Int time 359.838  
Amp 0.111  
Phase 116.1  
PFD 9.3e-01  
Delays (us)  
SBD -0.260933  
MBD -0.004667  
Fringe rate (Hz)  
-0.132777  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130548  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

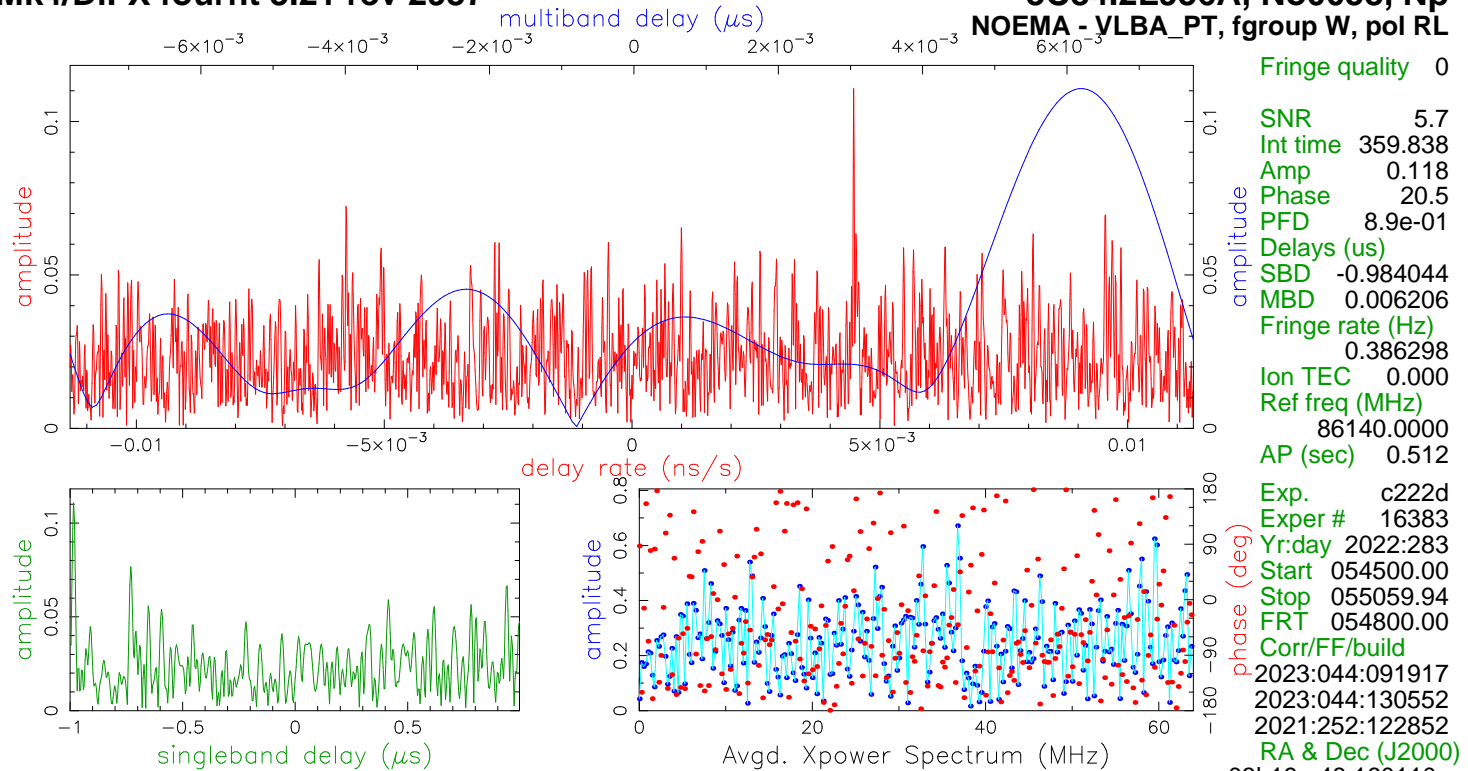


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	117.2	114.1	96.1	154.6	124.3	54.7	100.2	129.7	Phase	116.1
	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	335.5	188.6	86.0	226.5	302.3	460.6	501.1	360.1	Sbd box	190.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.11811152656E+02		Apriori delay (usec)		-6.11556485642E+02		Resid mbdelay (usec)		-4.66701E-03	+/- 1.9E-04
Sband delay (usec)	-6.11817418892E+02		Apriori clock (usec)		-1.4054318E+01		Resid sbdelay (usec)		-2.60933E-01	+/- 1.5E-03
Phase delay (usec)	-6.11556481900E+02		Apriori clockrate (us/s)		-3.3799999E-08		Resid phdelay (usec)		3.74270E-06	+/- 6.5E-07
Delay rate (us/s)	-1.48920983506E+00		Apriori rate (us/s)		-1.48920829365E+00		Resid rate (us/s)		-1.54141E-06	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		1.35968699758E-05		Resid phase (deg)		116.1	+/- 20.0

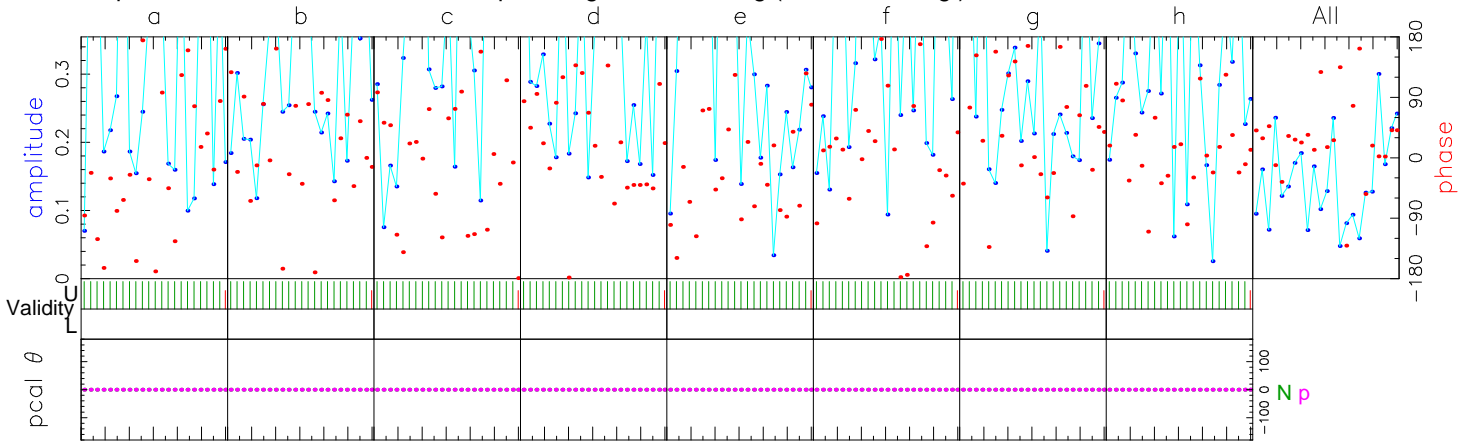
ph/seg (deg) 67.5 48.0 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 85.4 83.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 32.0 28.3 Inc. seg. avg. 0.108 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 38.3 49.4 Inc. frq. avg. 0.106 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 N: az 288.1 el 46.8 pa 64.9 p: az 63.6 el 47.8 pa -82.1 u,v (fr/asec) 11422.349 1763.177 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/Np..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/Np.W.171.2L956A

Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, Np  
NOEMA - VLBA\_PT, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

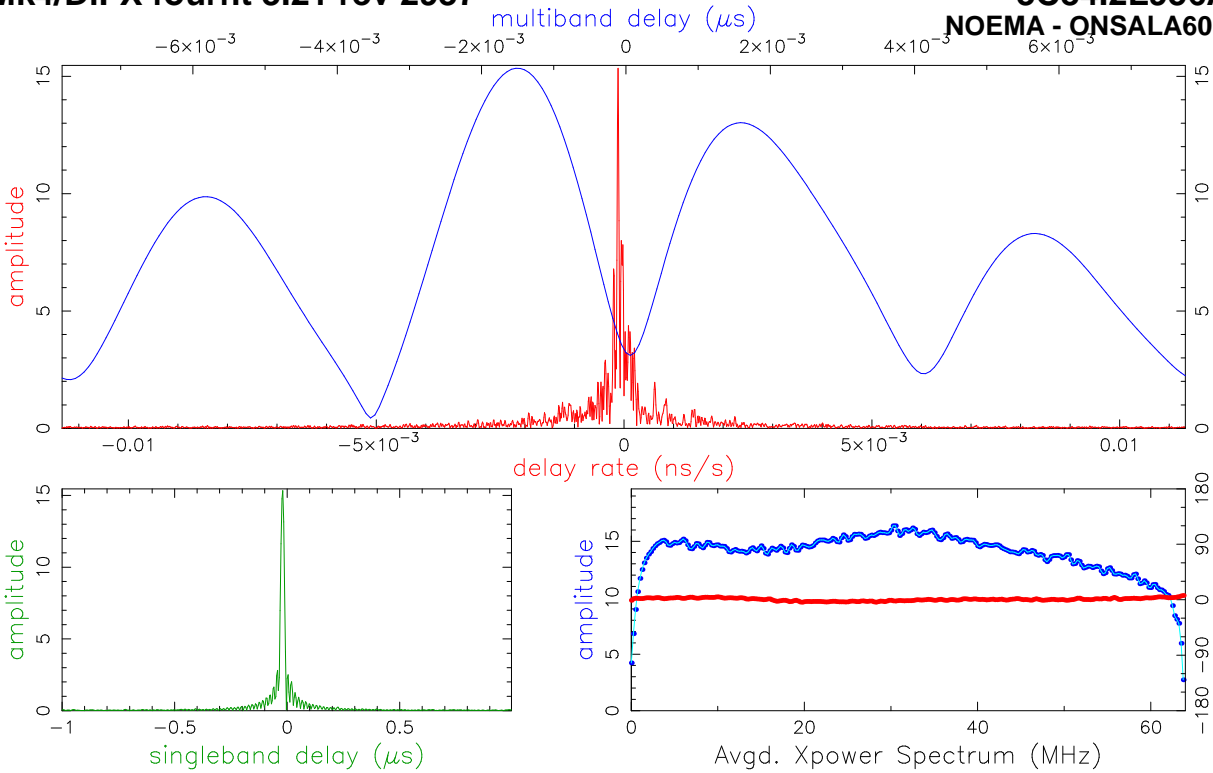


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-32.0	33.9	13.7	55.8	-9.8	12.6	47.2	9.7	Phase	20.5
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	Ampl.	0.1
	211.0	203.9	230.1	249.4	199.1	365.3	147.4	6.0	Sbd box	5.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.12534654949E+02		Apriori delay (usec)		-6.11556485642E+02		Resid mbdelay (usec)		6.20569E-03	+/- 1.9E-04
Sband delay (usec)	-6.12540529892E+02		Apriori clock (usec)		-1.4054318E+01		Resid sbdelay (usec)		-9.84044E-01	+/- 1.5E-03
Phase delay (usec)	-6.11556484982E+02		Apriori clockrate (us/s)		-3.3799999E-08		Resid phdelay (usec)		6.60777E-07	+/- 6.4E-07
Delay rate (us/s)	-1.48920380911E+00		Apriori rate (us/s)		-1.48920829365E+00		Resid rate (us/s)		4.48454E-06	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		1.35968699758E-05		Resid phase (deg)		20.5	+/- 19.9

	RMS	Theor.	Amplitude	0.118 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	60.7	47.8	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	66.0	83.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	31.7	28.2	Inc. seg. avg.	0.114	Sample rate(MISamp/s): 128	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
amp/frq (%)	36.2	49.2	Inc. frq. avg.	0.115	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

N: az 288.1 el 46.8 pa 64.9 p: az 63.6 el 47.8 pa -82.1 u,v (fr/asec) 11422.349 1763.177 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/Np..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/Np.W.194.2L956A

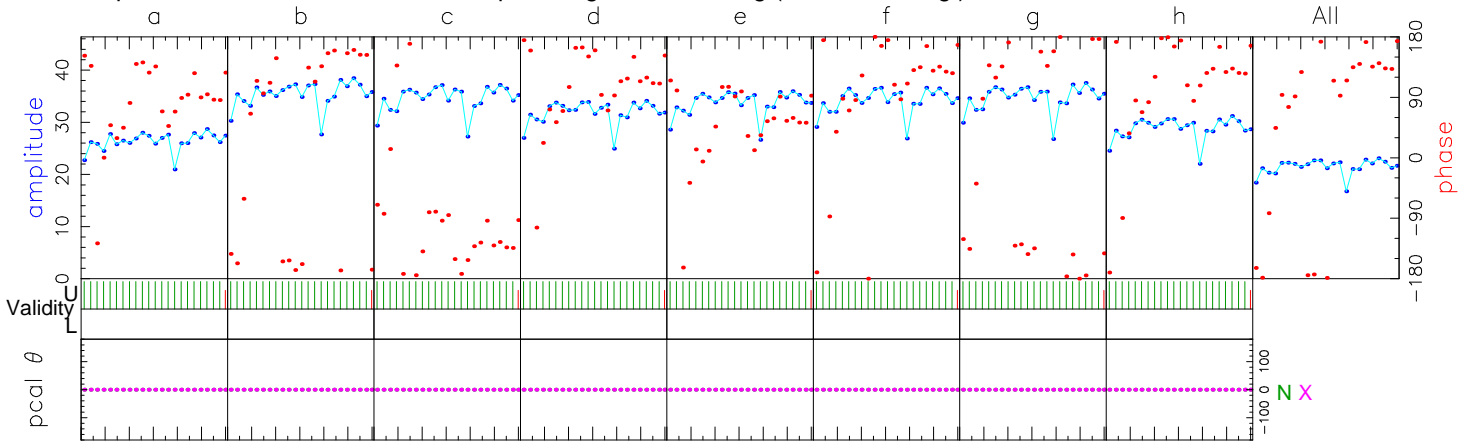


Fringe quality 2

SNR 802.2  
Int time 359.895  
Amp 15.464  
Phase 140.3  
PFD 0.0e+00  
Delays (us)  
SBD -0.020690  
MBD -0.001539  
Fringe rate (Hz)  
-0.010803  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

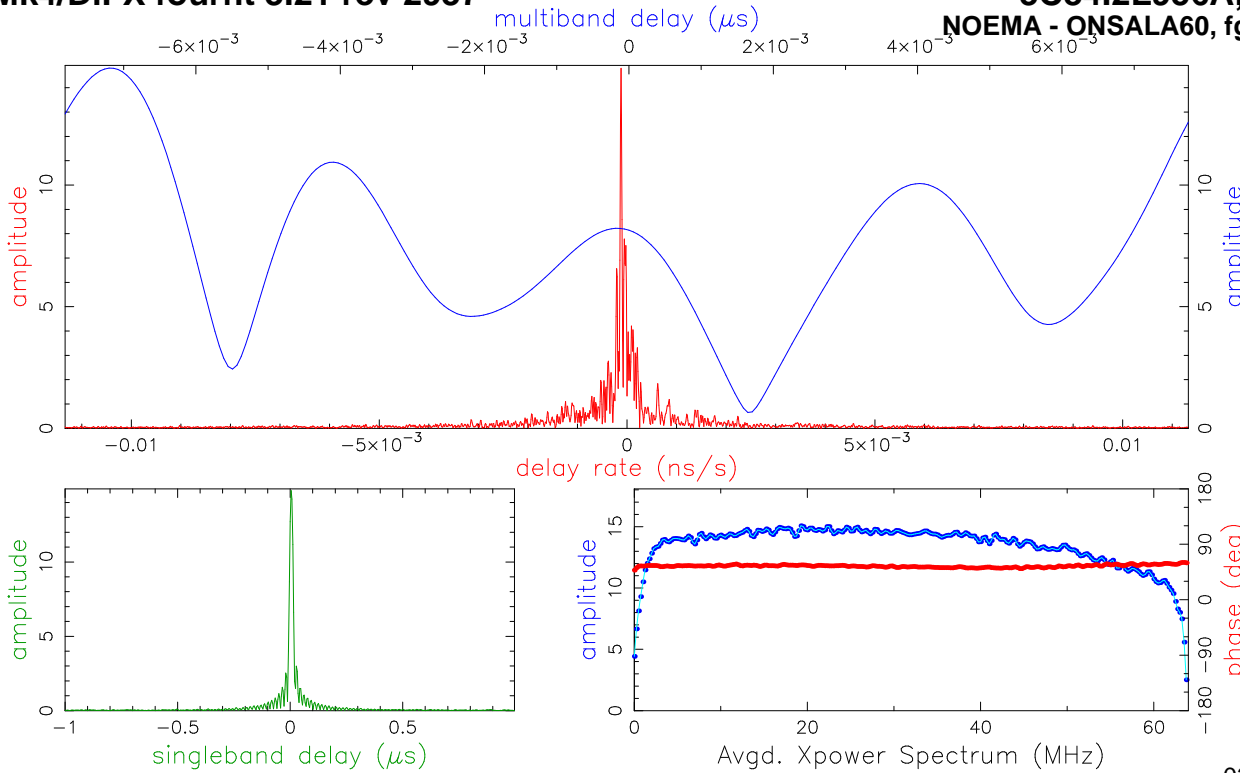
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130520  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



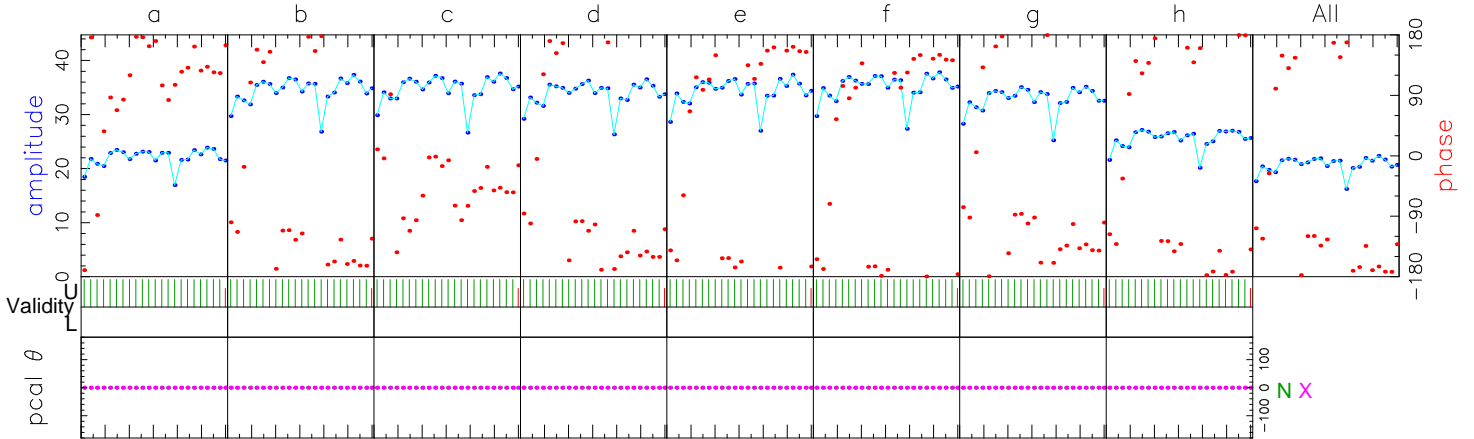
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	94.8	160.9	-125.9	118.4	59.2	134.6	-175.7	132.8	Phase	140.3
	18.8	25.3	24.7	22.8	24.1	24.5	24.9	20.6	Ampl.	23.2
	253.5	251.8	251.6	251.1	251.3	251.4	251.6	252.3	Sbd box	251.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.62968279197E+01		Apriori delay (usec)		6.63139916845E+01		Resid mbdelay (usec)		-1.53876E-03	+/- 1.4E-06
Sband delay (usec)	6.62933021845E+01		Apriori clock (usec)		-9.5569397E+01		Resid sbdelay (usec)		-2.06895E-02	+/- 1.1E-05
Phase delay (usec)	6.63139962099E+01		Apriori clockrate (us/s)		-5.9420004E-07		Resid phdelay (usec)		4.52531E-06	+/- 4.6E-09
Delay rate (us/s)	-1.47751039202E-01		Apriori rate (us/s)		-1.47750913794E-01		Resid rate (us/s)		-1.25408E-07	+/- 2.2E-11
Total phase (deg)	228.1		Apriori accel (us/s/s)		-1.13342603132E-05		Resid phase (deg)		140.3	+/- 0.1

ph/seg (deg) 48.9 0.3      Search (2048X32) 15.033      Pcal mode: MANUAL, MANUAL      PC period (AP's) 5, 5  
amp/seg (%) 39.8 0.6      Interp. 0.000      Pcal rate: 0.000E+00, 0.000E+00 (us/s)      sb window (us) -1.000 1.000  
ph/frq (deg) 58.3 0.2      Inc. seg. avg. 21.446      Bits/sample: 2x2      SampCntNorm: enabled      mb window (us) -0.008 0.008  
amp/frq (%) 52.0 0.4      Inc. frq. avg. 23.199      Sample rate(MISamp/s): 128      Data rate(Mb/s): 2048      nlags: 256      t\_cohere infinite      dr window (ns/s) -0.011 0.011  
N: az 288.1 el 46.8 pa 64.9      X: az 278.8 el 46.1 pa 45.3      u,v (fr/asec) 1114.385 -1727.189      simultaneous interpolator



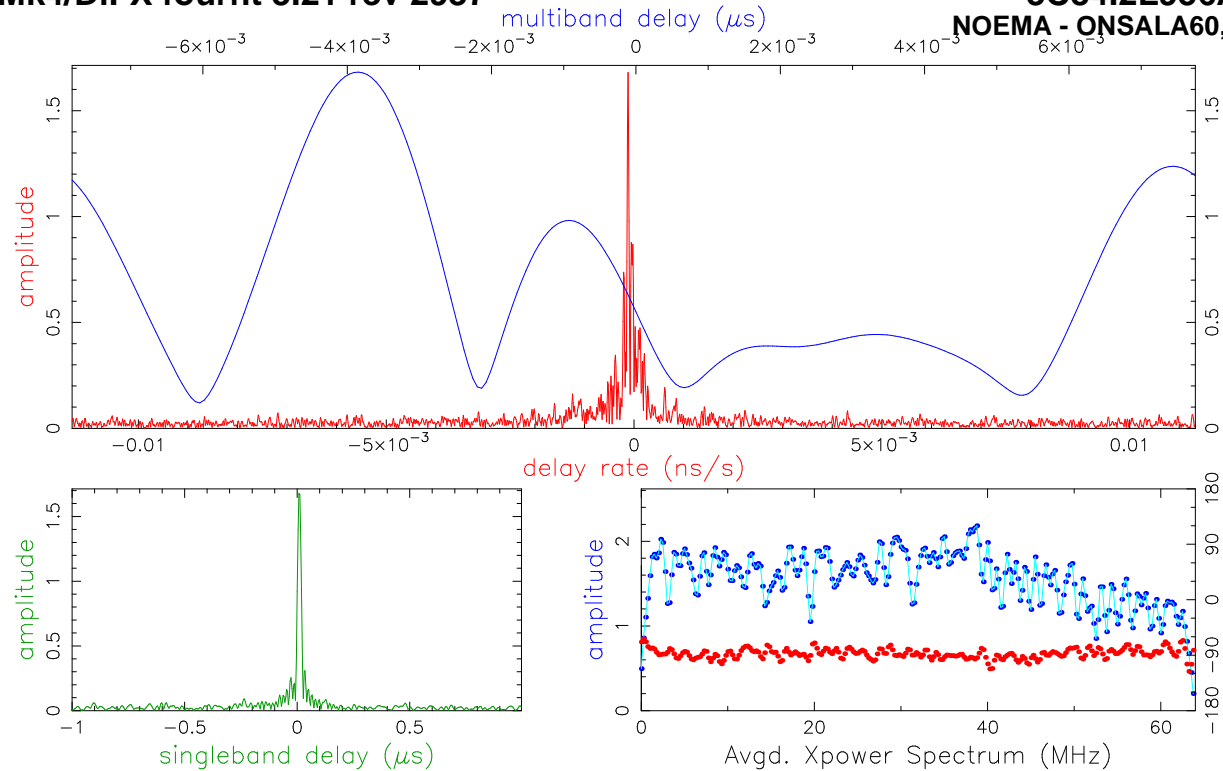
Fringe quality 1  
 SNR 773.9  
 Int time 359.895  
 Amp 14.919  
 Phase -165.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.005054  
 MBD -0.007144  
 Fringe rate (Hz)  
 -0.010787  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c222d  
 Exper # 16383  
 Yr:day 2022:283  
 Start 054500.00  
 Stop 055059.94  
 FRT 054800.00  
 Corr/FF/build  
 2023:044:091917  
 2023:044:130523  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160110s  
 +41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	131.2	-156.3	-47.3	-143.1	161.9	149.7	-132.9	-173.2	Phase	-165.4
	15.8	24.6	24.8	24.1	24.5	25.2	23.5	18.3	Ampl.	22.6
	259.9	258.7	258.4	257.9	257.7	258.3	258.4	259.4	Sbd box	258.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.63224722947E+01		Apriori delay (usec)		6.63139916845E+01		Resid mbdelay (usec)		-7.14439E-03	+/- 1.4E-06
Sband delay (usec)	6.63190461845E+01		Apriori clock (usec)		-9.5569397E+01		Resid sbdelay (usec)		5.05450E-03	+/- 1.1E-05
Phase delay (usec)	6.63139863505E+01		Apriori clockrate (us/s)		-5.9420004E-07		Resid phdelay (usec)		-5.33401E-06	+/- 4.8E-09
Delay rate (us/s)	-1.47751039025E-01		Apriori rate (us/s)		-1.47750913794E-01		Resid rate (us/s)		-1.25230E-07	+/- 2.3E-11
Total phase (deg)			Apriori accel (us/s/s)		-1.13342603132E-05		Resid phase (deg)		-165.4	+/- 0.1

RMS Theor. Amplitude 14.919 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 49.1 0.4 Search (2048X32) 14.386 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 40.0 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 61.6 0.2 Inc. seg. avg. 20.719 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 56.0 0.4 Inc. frq. avg. 22.593 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 N: az 288.1 el 46.8 pa 64.9 X: az 278.8 el 46.1 pa 45.3 u,v (fr/asec) 1114.385 -1727.189 simultaneous interpolator

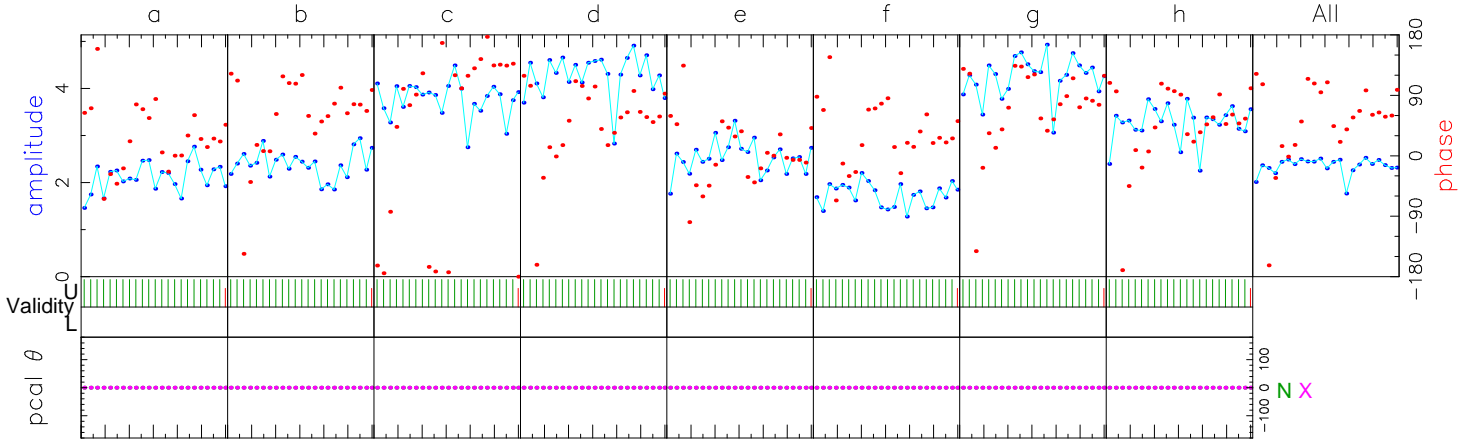


Fringe quality 2

SNR 88.9  
Int time 359.895  
Amp 1.714  
Phase 65.7  
PFD 0.0e+00  
Delays (us)  
SBD 0.009635  
MBD -0.003798  
Fringe rate (Hz)  
-0.010819  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130527  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

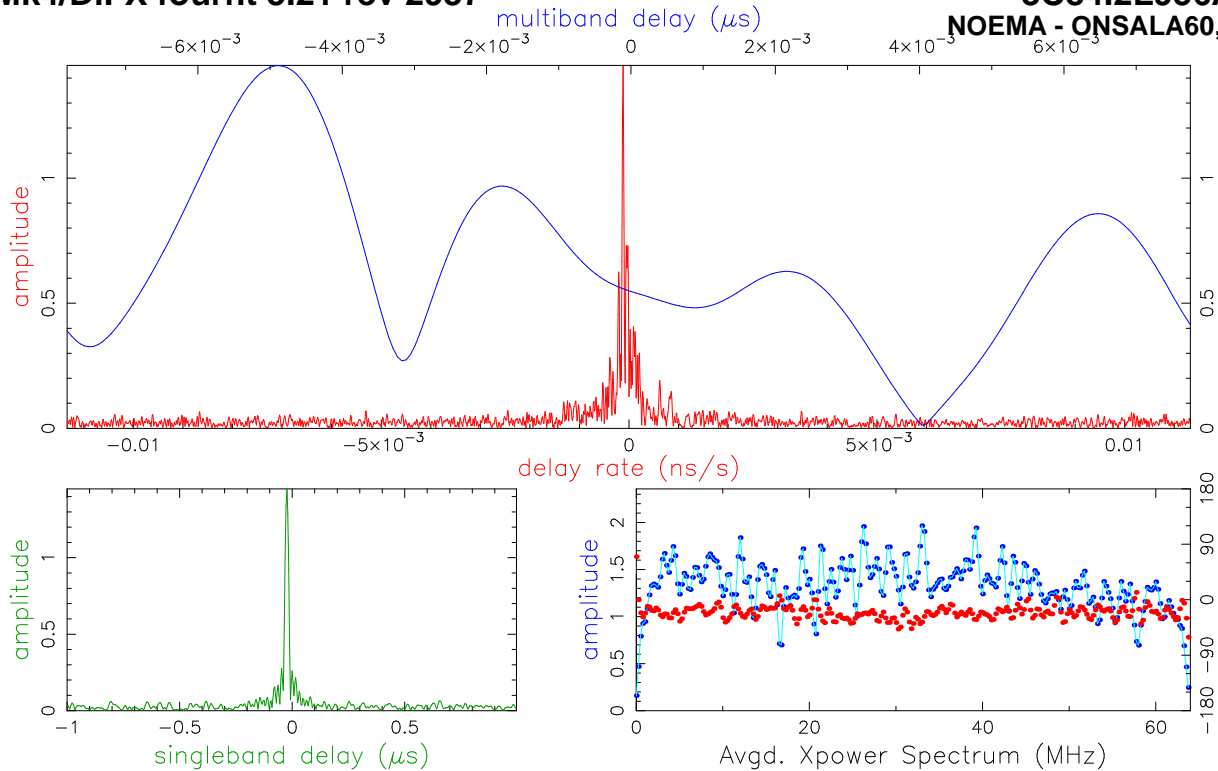
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	26.5	73.6	141.9	63.1	1.9	29.8	85.2	57.2	Phase	65.7
	1.5	1.6	2.7	3.1	1.8	3.1	3.0	2.3	Ampl.	2.2
	260.3	259.1	259.1	259.0	258.4	258.1	259.6	260.5	Sbd box	259.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.63258186072E+01		Apriori delay (usec)		6.63139916845E+01		Resid mbdelay (usec)		-3.79808E-03	+/- 1.2E-05
Sband delay (usec)	6.63236264345E+01		Apriori clock (usec)		-9.5569397E+01		Resid sbdelay (usec)		9.63475E-03	+/- 9.7E-05
Phase delay (usec)	6.63139938044E+01		Apriori clockrate (us/s)		-5.9420004E-07		Resid phdelay (usec)		2.11980E-06	+/- 4.2E-08
Delay rate (us/s)	-1.47751039390E-01		Apriori rate (us/s)		-1.47750913794E-01		Resid rate (us/s)		-1.25596E-07	+/- 2.0E-10
Total phase (deg)	153.5		Apriori accel (us/s/s)		-1.13342603132E-05		Resid phase (deg)		65.7	+/- 1.3

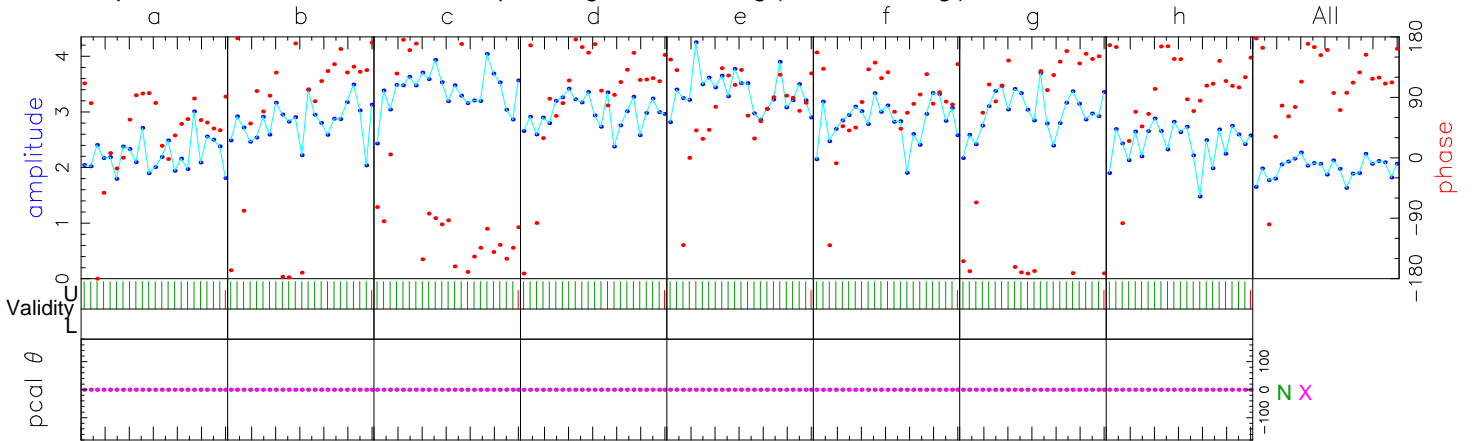
ph/seg (deg) 48.6 3.1 Amplitude 1.714 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 38.8 5.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 47.0 1.8 Inc. seg. avg. 2.353 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 46.8 3.2 Inc. frq. avg. 2.159 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 N: az 288.1 el 46.8 pa 64.9 X: az 278.8 el 46.1 pa 45.3 u,v (fr/asec) 1114.385 -1727.189 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/NX..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/NX.W.68.2L956A





Fringe quality 2  
SNR 75.2  
Int time 359.895  
Amp 1.450  
Phase 121.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.023746  
MBD -0.004897  
Fringe rate (Hz)  
-0.010794  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054500.00  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130530  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

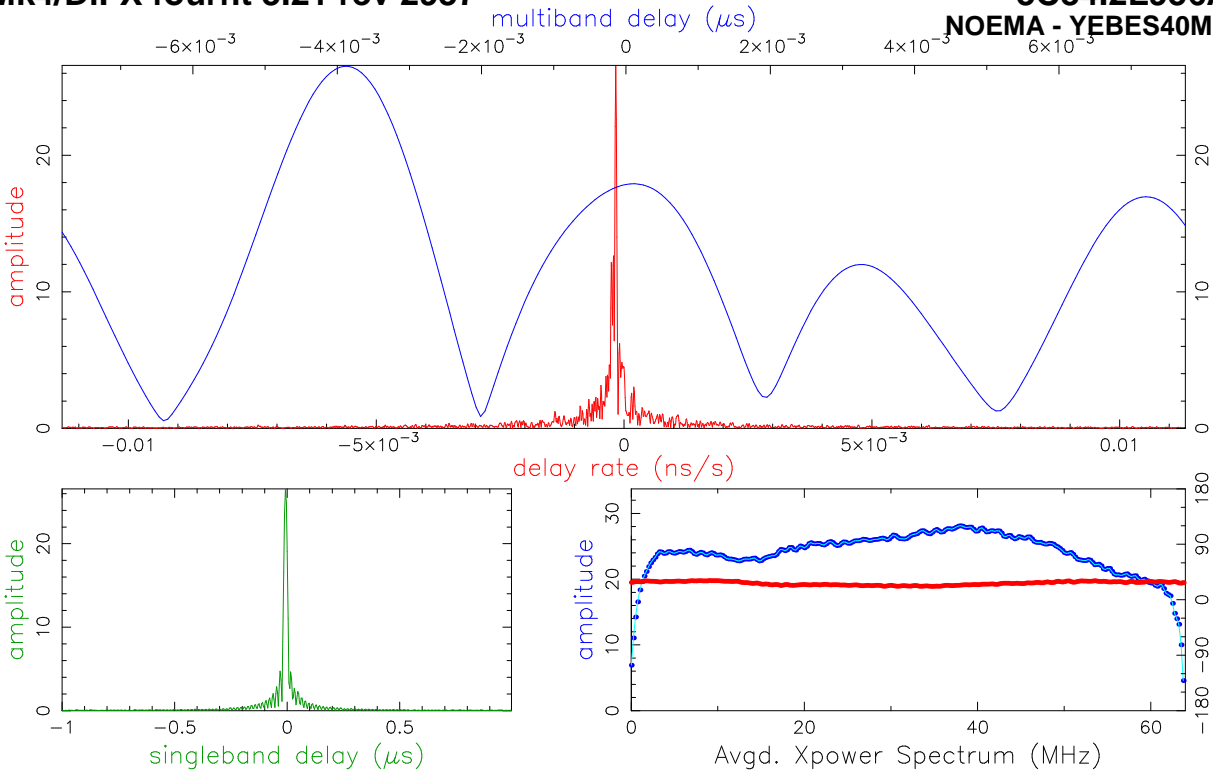


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	54.2	136.2	-136.4	124.8	86.0	92.4	151.8	115.5	Phase	121.5
	1.6	2.0	2.3	2.2	2.4	2.2	2.2	1.7	Ampl.	2.1
	253.1	250.8	251.2	250.3	250.7	250.6	251.1	251.9	Sbd box	250.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.62934699197E+01		Apriori delay (usec)		6.63139916845E+01		Resid mbdelay (usec)		-4.89676E-03	+/- 1.4E-05
Sband delay (usec)	6.62902451845E+01		Apriori clock (usec)		-9.5569397E+01		Resid sbdelay (usec)		-2.37465E-02	+/- 1.1E-04
Phase delay (usec)	6.63139956040E+01		Apriori clockrate (us/s)		-5.9420004E-07		Resid phdelay (usec)		3.91943E-06	+/- 4.9E-08
Delay rate (us/s)	-1.47751039096E-01		Apriori rate (us/s)		-1.47750913794E-01		Resid rate (us/s)		-1.25302E-07	+/- 2.4E-10
Total phase (deg)	209.3		Apriori accel (us/s/s)		-1.13342603132E-05		Resid phase (deg)		121.5	+/- 1.5

ph/seg (deg) 48.4 3.7 Search (2048X32) 1.421 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 39.1 6.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 55.1 2.2 Inc. seg. avg. 1.987 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 45.7 3.8 Inc. frq. avg. 2.057 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
N: az 288.1 el 46.8 pa 64.9 X: az 278.8 el 46.1 pa 45.3 u,v (fr/asec) 1114.385 -1727.189 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/NX..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/NX.W.85.2L956A

Mk4/DiFX fourfit 3.21 rev 2937

3C84.2L956A, No0058, NY  
NOEMA - YEBES40M, fgroup W, pol LL

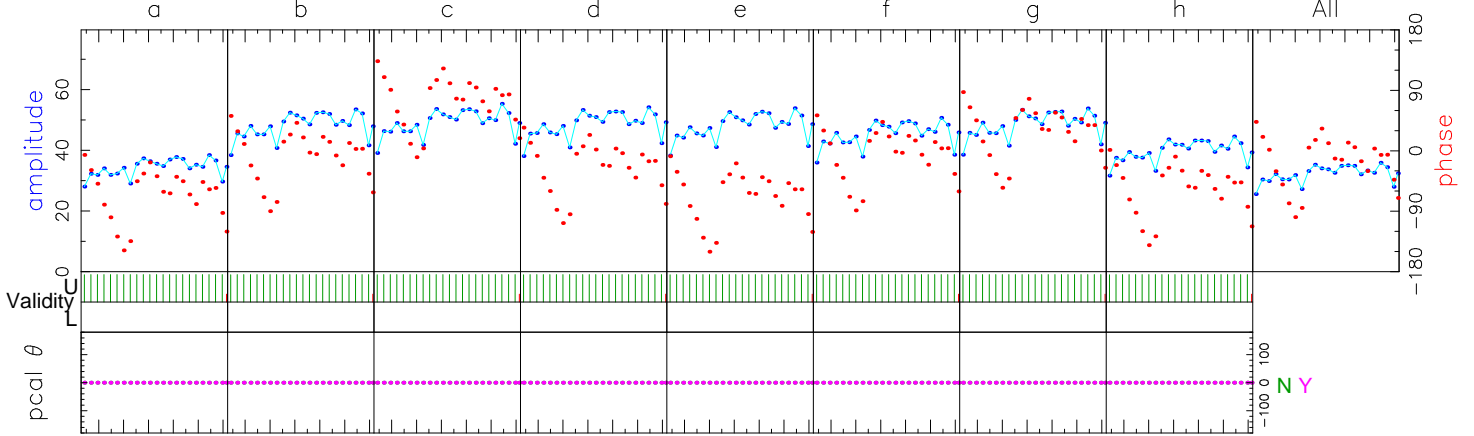


Fringe quality 2

SNR 1344.1  
Int time 342.124  
Amp 26.575  
Phase -12.2  
PFD 0.0e+00  
Delays (us)  
SBD -0.007202  
MBD -0.003857  
Fringe rate (Hz)  
-0.013929  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

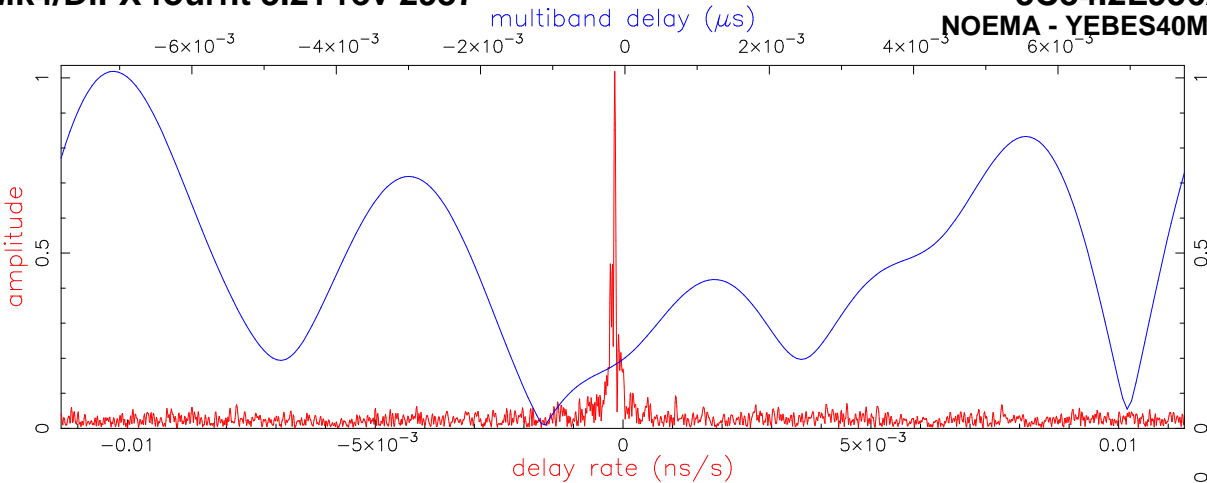
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054517.41  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130514  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



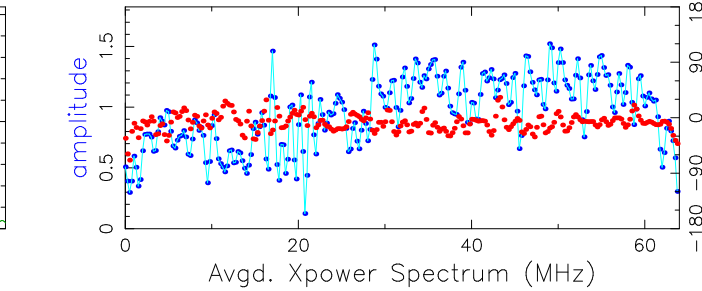
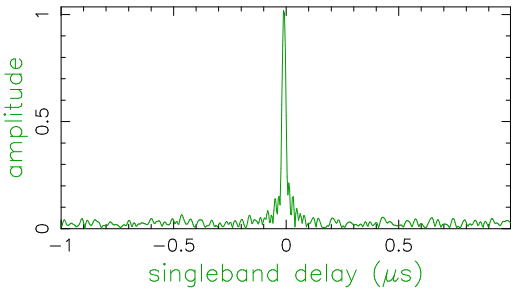
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.9	-3.5	77.0	-21.4	-63.5	-2.2	32.0	-53.6	Phase	-12.2
	28.3	39.7	40.4	39.9	39.5	37.3	39.8	32.7	Ampl.	37.2
	257.1	255.6	254.8	254.9	254.7	254.5	255.0	254.7	Sbd box	255.2
U/L	669/0	669/0	669/0	669/0	669/0	669/0	669/0	669/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.1808883500E+03		Apriori delay (usec)	-1.18088497814E+03	Resid mbdelay (usec)	-3.85686E-03	+/-	8.1E-07		
Sband delay (usec)	-1.18089217989E+03		Apriori clock (usec)	3.0999329E+01	Resid sbdelay (usec)	-7.20175E-03	+/-	6.4E-06		
Phase delay (usec)	-1.18088497853E+03		Apriori clockrate (us/s)	1.5210000E-06	Resid phdelay (usec)	-3.91927E-07	+/-	2.7E-09		
Delay rate (us/s)	-2.65037382245E-02		Apriori rate (us/s)	-2.65035765189E-02	Resid rate (us/s)	-1.61706E-07	+/-	1.4E-11		
Total phase (deg)		-18.2	Apriori accel (us/s/s)	1.04152841624E-05	Resid phase (deg)	-12.2	+/-	0.1		

ph/seg (deg) 36.9 0.2 Search (2048X32) 25.675 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 23.5 0.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 53.2 0.1 Inc. seg. avg. 32.198 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 42.9 0.2 Inc. frq. avg. 37.201 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 N: az 288.1 el 46.8 pa 64.9 Y: az 289.0 el 51.8 pa 74.2 u,v (fr/asec) 219.535 1075.420 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/NY..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/NY.W.1.2L956A



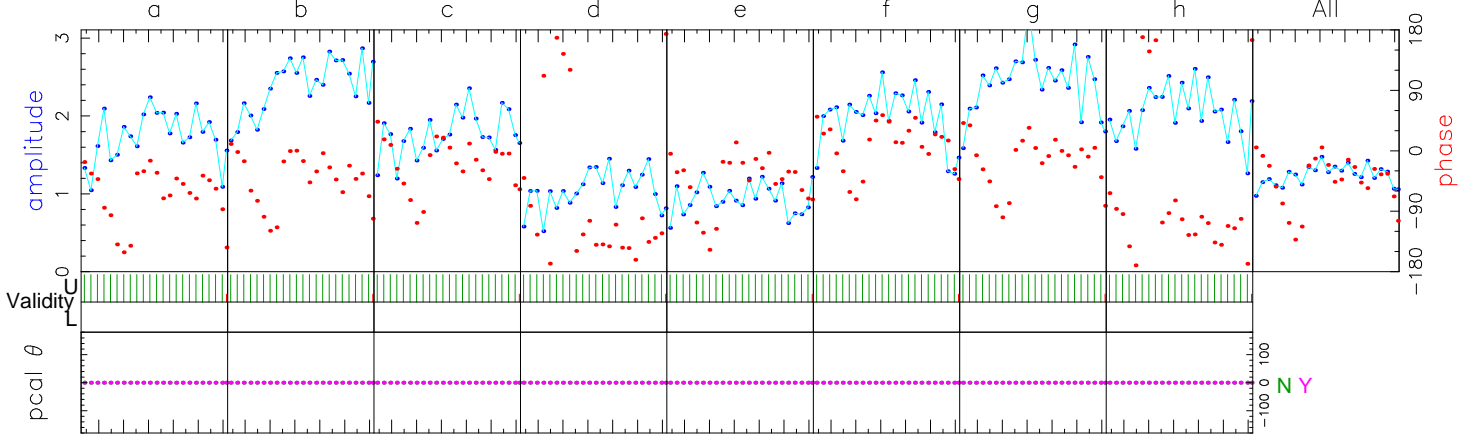
Fringe quality 2

SNR 52.4  
Int time 342.124  
Amp 1.036  
Phase -40.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.010046  
MBD -0.007074  
Fringe rate (Hz)  
-0.013902  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054517.41  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130520  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec

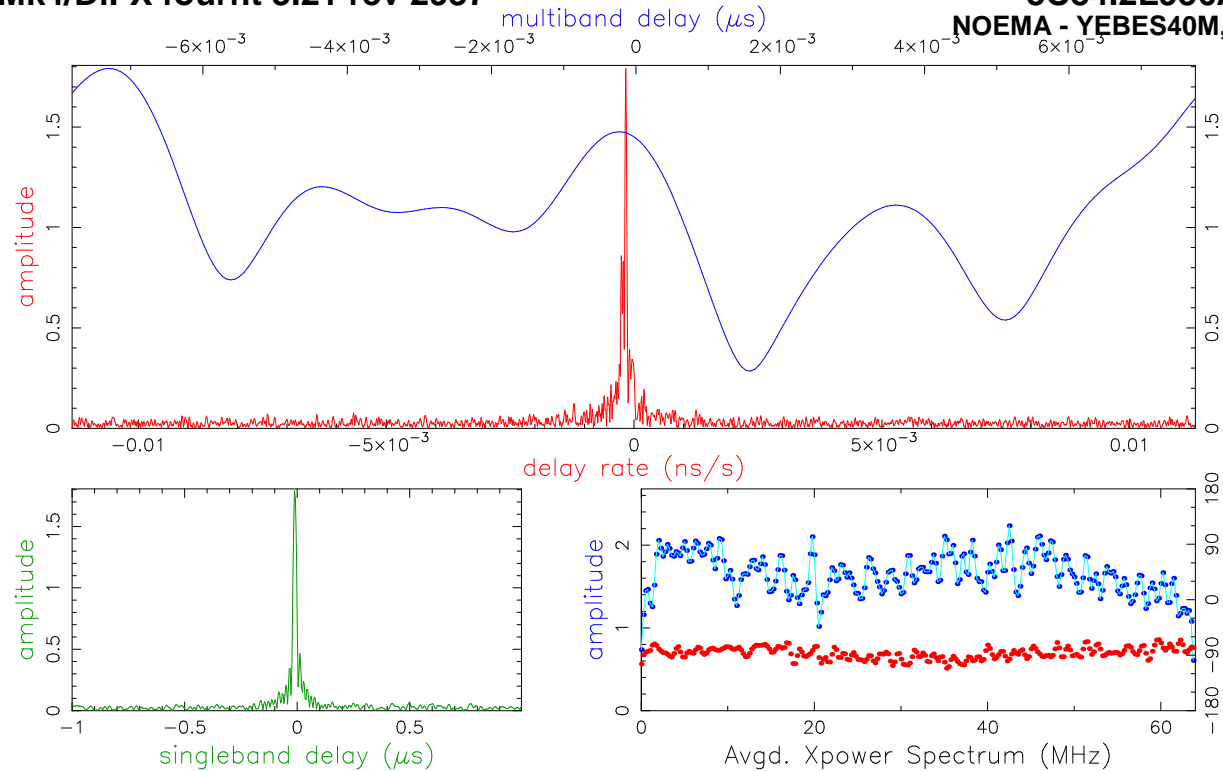


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-60.7	-38.5	-17.1	-139.8	-45.0	11.0	-11.8	-123.7	Phase	-40.8
	1.4	1.9	1.5	0.8	0.7	1.6	2.0	1.6	Ampl.	1.4
	255.8	253.7	253.9	253.6	254.0	253.6	253.9	253.7	Sbd box	254.4
U/L	669/0	669/0	669/0	669/0	669/0	669/0	669/0	669/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.18089205228E+03		Apriori delay (usec)		-1.18088497814E+03		Resid mbdelay (usec)		-7.07415E-03	+/- 2.1E-05
Sband delay (usec)	-1.18089502414E+03		Apriori clock (usec)		3.0999329E+01		Resid sbdelay (usec)		-1.00460E-02	+/- 1.6E-04
Phase delay (usec)	-1.18088497945E+03		Apriori clockrate (us/s)		1.5210000E-06		Resid phdelay (usec)		-1.31464E-06	+/- 7.1E-08
Delay rate (us/s)	-2.65037379120E-02		Apriori rate (us/s)		-2.65035765189E-02		Resid rate (us/s)		-1.61393E-07	+/- 3.6E-10
Total phase (deg)			Apriori accel (us/s/s)		1.04152841624E-05		Resid phase (deg)		-40.8	+/- 2.2

	RMS	Theor.	Amplitude	1.036 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	36.8	5.2	Search (2048X32)	0.961	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	23.2	9.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	59.4	3.1	Inc. seg. avg.	1.237	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	58.4	5.4	Inc. frq. avg.	1.448	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
						ion window (TEC) 0.00 0.00

N: az 288.1 el 46.8 pa 64.9 Y: az 289.0 el 51.8 pa 74.2 u,v (fr/asec) 219.535 1075.420 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/NY..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/NY.W.29.2L956A

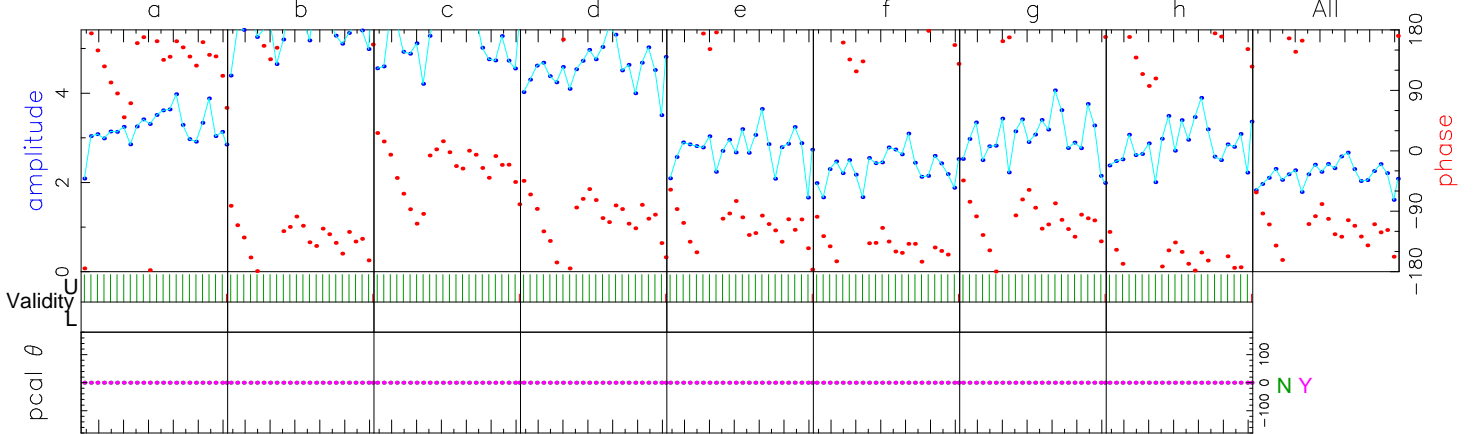


Fringe quality 2

SNR 91.4  
Int time 342.124  
Amp 1.807  
Phase -125.0  
PFD 0.0e+00  
Delays (us)  
SBD -0.010529  
MBD -0.007255  
Fringe rate (Hz)  
-0.013972  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

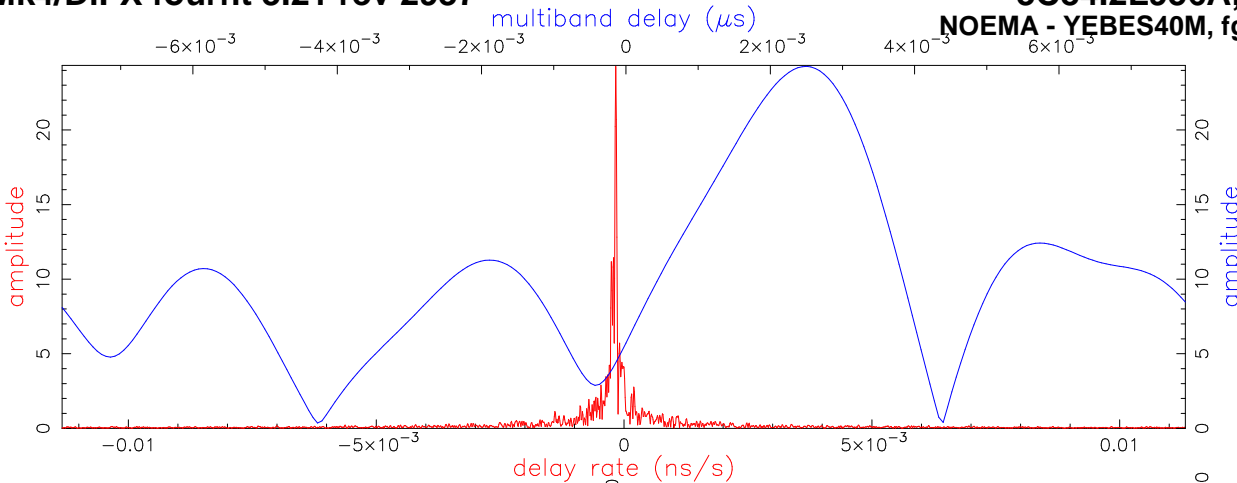
Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054517.41  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130523  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



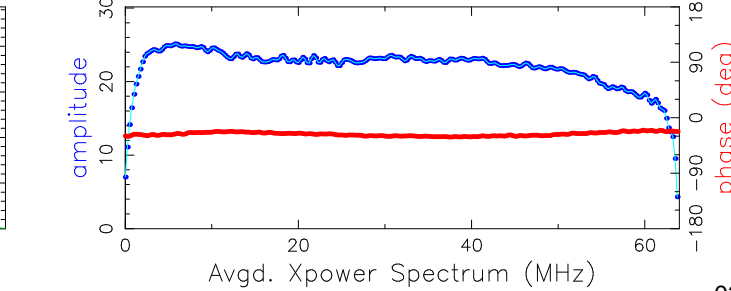
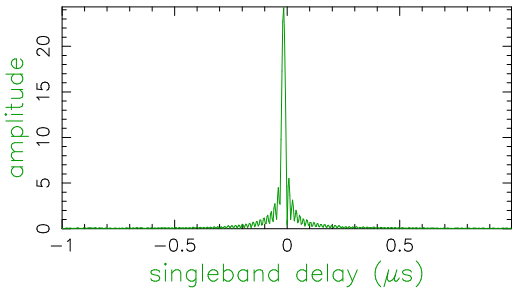
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	139.5	-139.3	-23.4	-101.2	-119.1	-157.3	-108.1	-176.8	Phase	-125.0
	2.7	4.5	4.3	3.7	2.3	1.9	2.4	2.4	Ampl.	3.0
	256.6	254.9	254.4	254.4	253.7	253.8	254.3	254.1	Sbd box	254.3
U/L	669/0	669/0	669/0	669/0	669/0	669/0	669/0	669/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.18089223363E+03		Apriori delay (usec)		-1.18088497814E+03		Resid mbdelay (usec)		-7.25549E-03	+/- 1.2E-05
Sband delay (usec)	-1.18089550689E+03		Apriori clock (usec)		3.0999329E+01		Resid sbdelay (usec)		-1.05287E-02	+/- 9.4E-05
Phase delay (usec)	-1.18088498217E+03		Apriori clockrate (us/s)		1.5210000E-06		Resid phdelay (usec)		-4.02939E-06	+/- 4.0E-08
Delay rate (us/s)	-2.65037387191E-02		Apriori rate (us/s)		-2.65035765189E-02		Resid rate (us/s)		-1.62200E-07	+/- 2.0E-10
Total phase (deg)			Apriori accel (us/s/s)		1.04152841624E-05		Resid phase (deg)		-125.0	+/- 1.3

ph/seg (deg) 37.5 3.0 Search (2048X32) 1.748 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 25.1 5.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 63.6 1.8 Inc. seg. avg. 2.187 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 85.3 3.1 Inc. frq. avg. 3.027 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 N: az 288.1 el 46.8 pa 64.9 Y: az 289.0 el 51.8 pa 74.2 u,v (fr/asec) 219.535 1075.420 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/NY..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/NY.W.46.2L956A



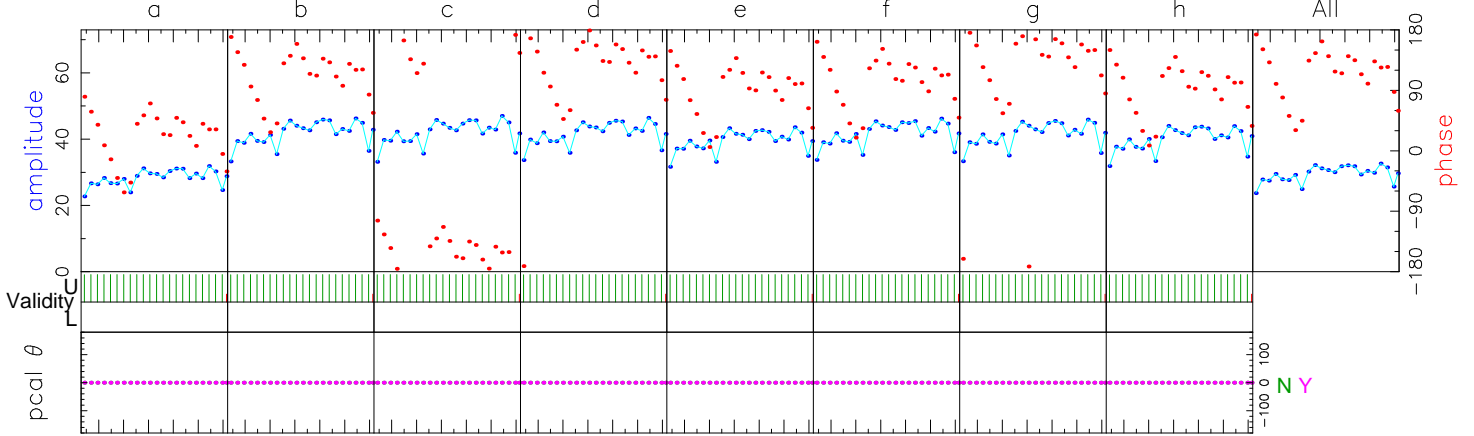
Fringe quality 3

SNR 1230.5  
Int time 342.124  
Amp 24.330  
Phase 117.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.016280  
MBD 0.002475  
Fringe rate (Hz)  
-0.013918  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c222d  
Exper # 16383  
Yr:day 2022:283  
Start 054517.41  
Stop 055059.94  
FRT 054800.00  
Corr/FF/build  
2023:044:091917  
2023:044:130517  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160110s  
+41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 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
	25.1	113.9	-157.9	133.9	92.7	106.3	142.6	94.7	Phase	117.5
	23.4	34.4	34.6	34.4	32.5	34.4	34.1	32.9	Ampl.	32.6
	255.2	252.8	253.1	252.9	252.5	252.6	252.9	253.0	Sbd box	252.8
U/L	669/0	669/0	669/0	669/0	669/0	669/0	669/0	669/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

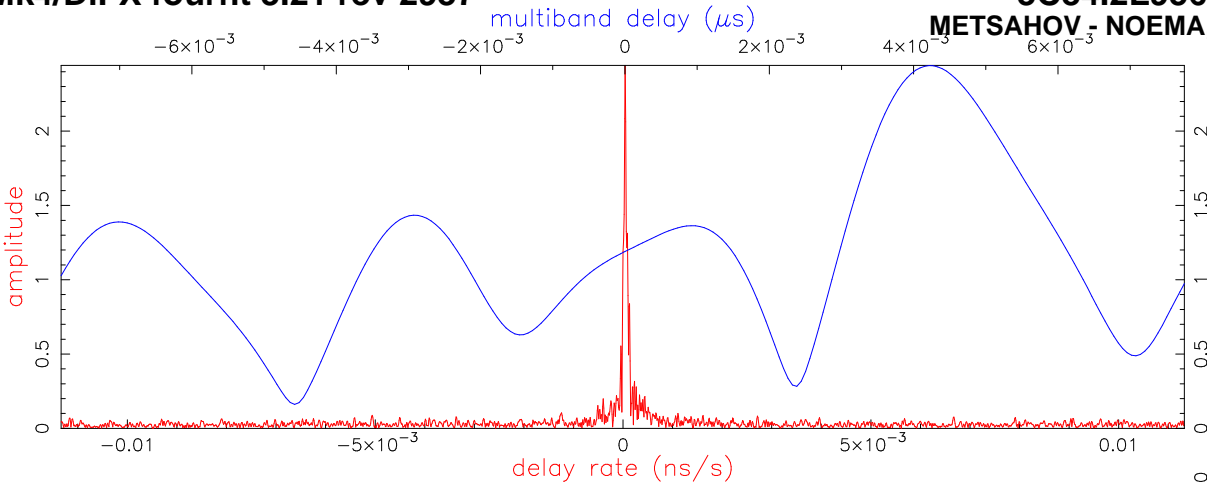
Group delay (usec)(sbd)	-1.18089812794E+03	Apriori delay (usec)	-1.18088497814E+03	Resid mbdelay (usec)	2.47520E-03	+/-	8.8E-07
Sband delay (usec)	-1.18090125839E+03	Apriori clock (usec)	3.0999329E+01	Resid sbdelay (usec)	-1.62803E-02	+/-	7.0E-06
Phase delay (usec)	-1.18088497435E+03	Apriori clockrate (us/s)	1.5210000E-06	Resid phdelay (usec)	3.78983E-06	+/-	3.0E-09
Delay rate (us/s)	-2.65037380948E-02	Apriori rate (us/s)	-2.65035765189E-02	Resid rate (us/s)	-1.61576E-07	+/-	1.5E-11
Total phase (deg)	111.5	Apriori accel (us/s/s)	1.04152841624E-05	Resid phase (deg)	117.5	+/-	0.1

ph/seg (deg)	RMS 36.9	Theor. 0.2	Amplitude Search (2048X32)	24.330 +/- 0.020	23.431	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	23.2	0.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	54.6	0.1	Inc. seg. avg.	29.455	Bits/sample: 2x2	ion window (TEC)	dr window (ns/s) -0.011 0.011
amp/frq (%)	37.0	0.2	Inc. frq. avg.	32.594	Sample rate(MISamp/s): 128	nlags: 256	t_cohere infinite

N: az 288.1 el 46.8 pa 64.9 Y: az 289.0 el 51.8 pa 74.2 u,v (fr/asec) 219.535 1075.420 simultaneous interpolator

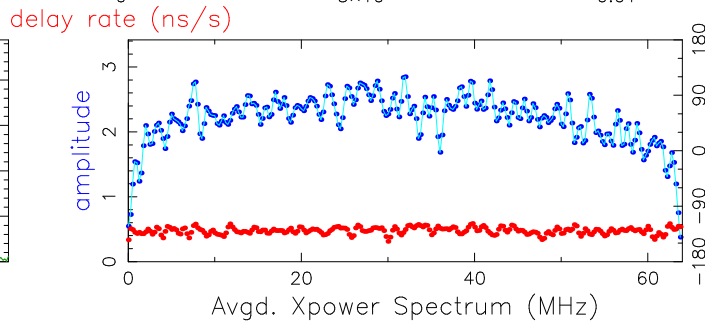
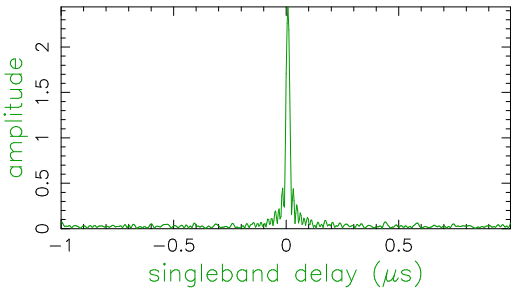
Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/NY..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/NY.W.7.2L956A





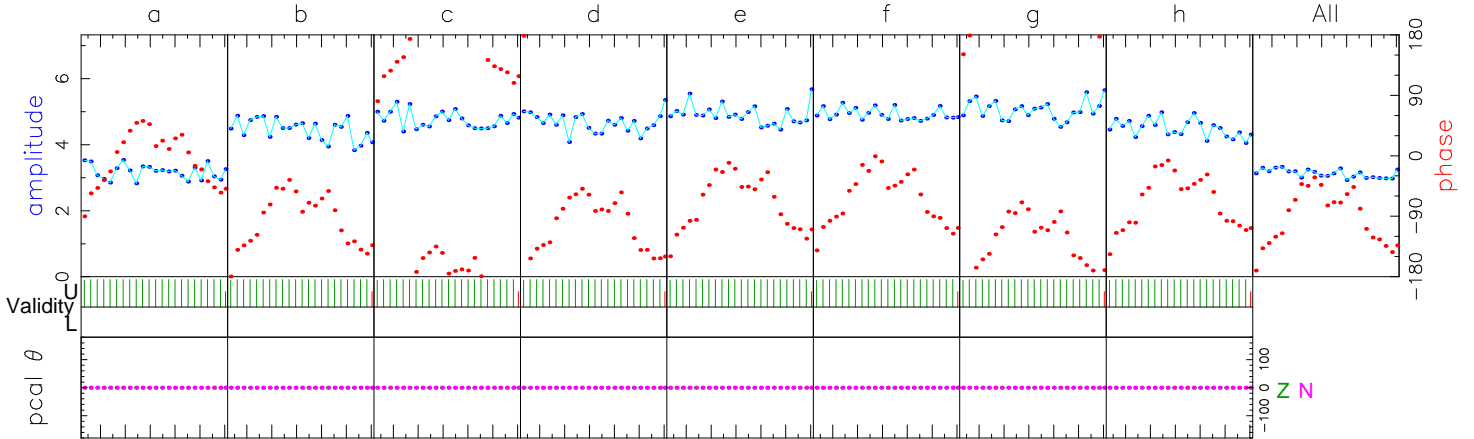
Fringe quality 2

SNR 124.3  
 Int time 346.110  
 Amp 2.443  
 Phase -91.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.007493  
 MBD 0.004221  
 Fringe rate (Hz)  
 0.003891  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c222d  
 Exper # 16383  
 Yr:day 2022:283  
 Start 054513.31  
 Stop 055059.94  
 FRT 054800.00  
 Corr/FF/build  
 2023:044:091917  
 2023:044:130539  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160110s  
 +41°30'42.103638"

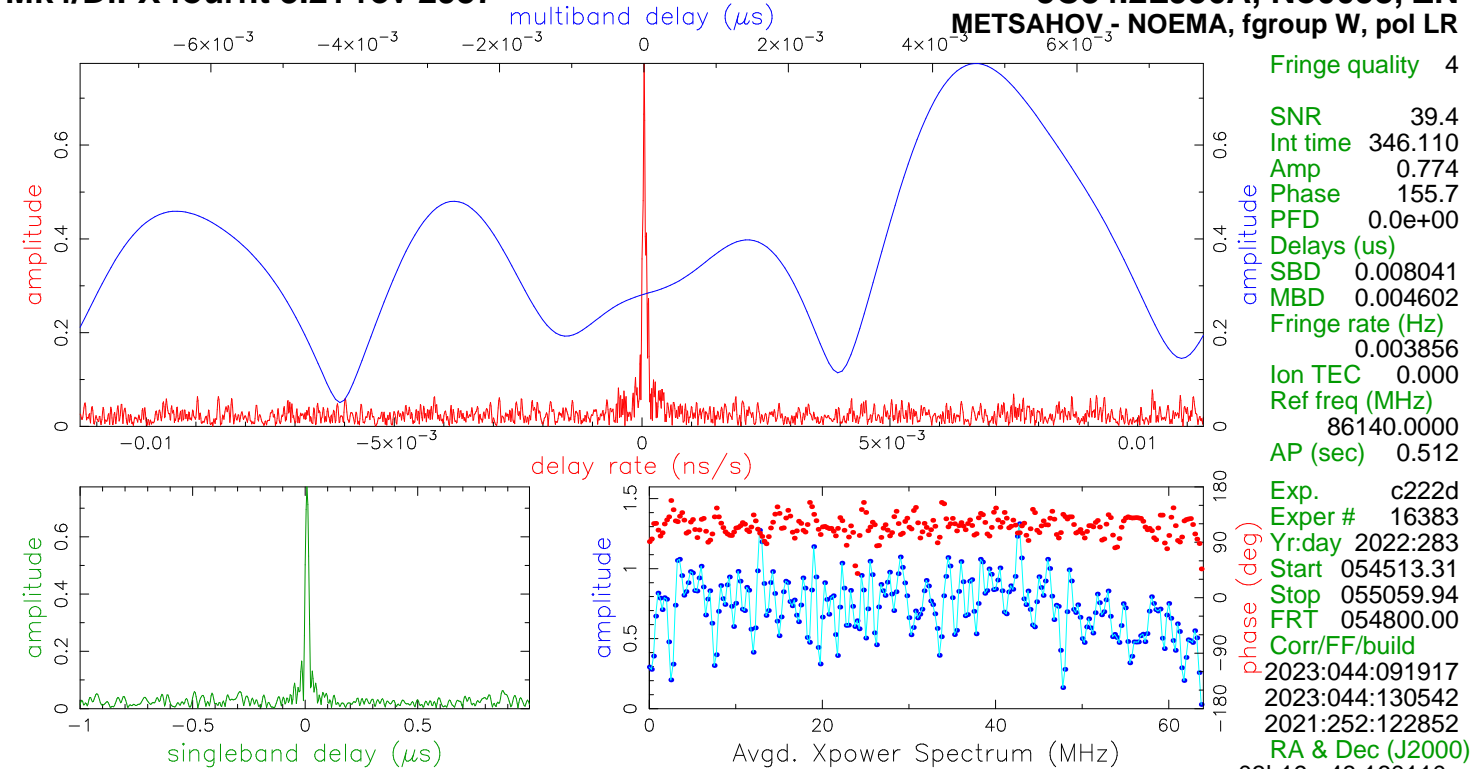
Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



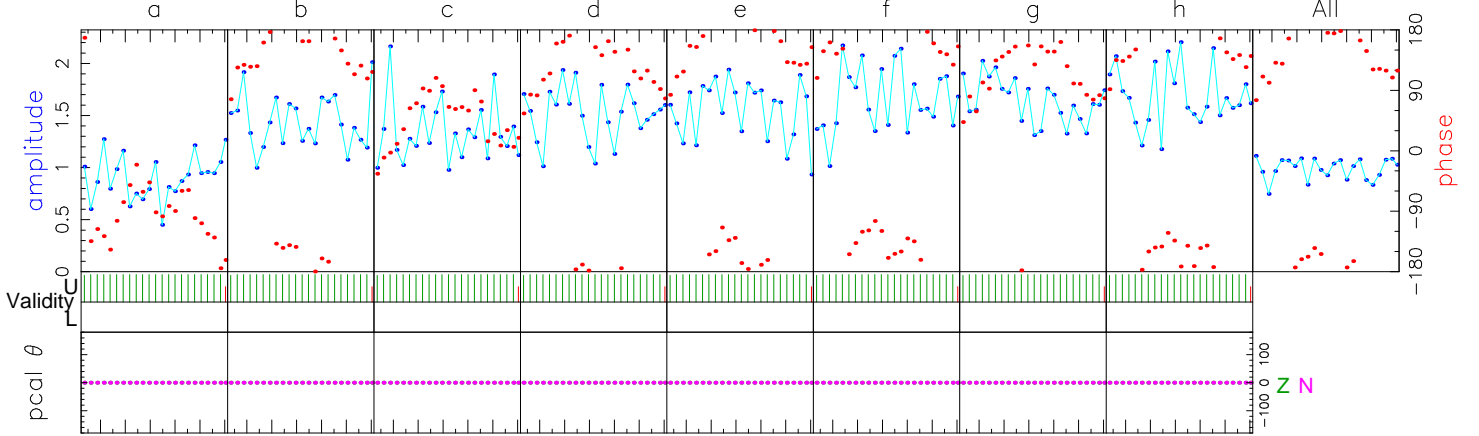
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-5.1	-96.3	163.7	-105.5	-70.3	-63.8	-130.3	-67.5		-91.9
	2.5	3.5	3.7	3.6	3.8	3.9	4.0	3.5	Ampl.	3.6
	257.0	258.3	258.8	259.2	259.4	259.1	259.1	258.2	Sbd box	258.9
U/L	677/0	677/0	677/0	677/0	677/0	677/0	677/0	677/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.69722760145E+03	Apriori delay (usec)	-1.69723182276E+03	Resid mbdelay (usec)	4.22131E-03	+/-	8.7E-06
Sband delay (usec)	-1.69722432951E+03	Apriori clock (usec)	1.2730165E+01	Resid sbdelay (usec)	7.49325E-03	+/-	6.9E-05
Phase delay (usec)	-1.69723182573E+03	Apriori clockrate (us/s)	3.3299999E-08	Resid phdelay (usec)	-2.96382E-06	+/-	3.0E-08
Delay rate (us/s)	1.57584679188E-01	Apriori rate (us/s)	1.57584634016E-01	Resid rate (us/s)	4.51713E-08	+/-	1.5E-10
Total phase (deg)	-168.5	Apriori accel (us/s/s)	2.14831768946E-05	Resid phase (deg)	-91.9	+/-	0.9

ph/seg (deg)	39.3	2.2	Search (2048X32)	2.413	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	28.4	3.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	60.5	1.3	Inc. seg. avg.	3.123	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	49.1	2.3	Inc. frq. avg.	3.560	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
Z: az 285.6 el 40.4 pa 39.8		N: az 288.1 el 46.8 pa 64.9		u,v (fr/asec)	-1173.103 2604.918	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00



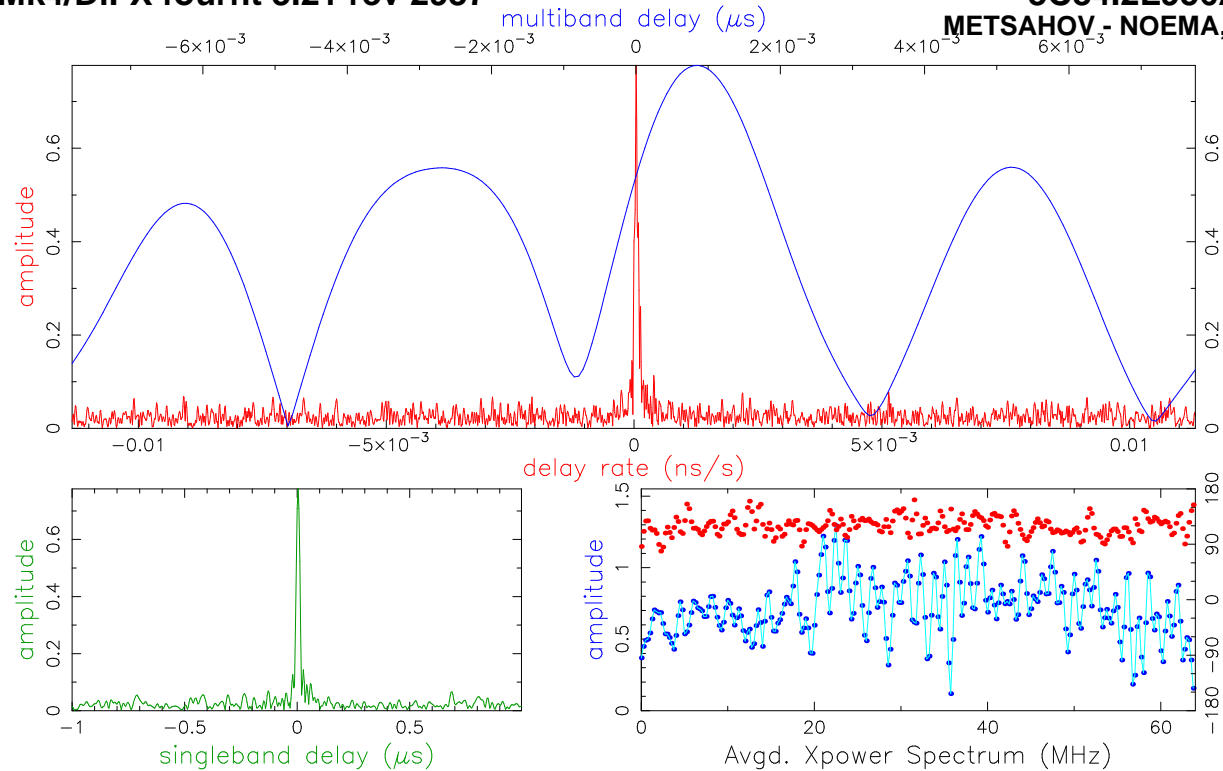
Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-103.4	158.8	46.9	135.3	171.8	-169.8	117.6	175.5	Phase	155.7
	0.7	1.1	1.1	1.2	1.2	1.3	1.3	1.3	Ampl.	1.1
	256.6	258.2	258.8	259.3	259.7	259.1	259.2	258.6	Sbd box	259.1
U/L	677/0	677/0	677/0	677/0	677/0	677/0	677/0	677/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.69722722089E+03	Apriori delay (usec)	-1.69723182276E+03	Resid mbdelay (usec)	4.60187E-03	+/-	2.8E-05
Sband delay (usec)	-1.69722378176E+03	Apriori clock (usec)	1.2730165E+01	Resid sbdelay (usec)	8.04100E-03	+/-	2.2E-04
Phase delay (usec)	-1.69723181774E+03	Apriori clockrate (us/s)	3.3299999E-08	Resid phdelay (usec)	5.01944E-06	+/-	9.4E-08
Delay rate (us/s)	1.57584678784E-01	Apriori rate (us/s)	1.57584634016E-01	Resid rate (us/s)	4.47674E-08	+/-	4.7E-10
Total phase (deg)	79.1	Apriori accel (us/s/s)	2.14831768946E-05	Resid phase (deg)	155.7	+/-	2.9

ph/seg (deg)	39.1	Theor.	7.0	Search (2048X32)	0.764	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	30.6		12.2	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	65.5		4.1	Inc. seg. avg.	0.983	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	53.1		7.2	Inc. frq. avg.	1.136	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
Z: az 285.6 el 40.4 pa 39.8		N: az 288.1 el 46.8 pa 64.9		u,v (fr/asec)	-1173.103 2604.918	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

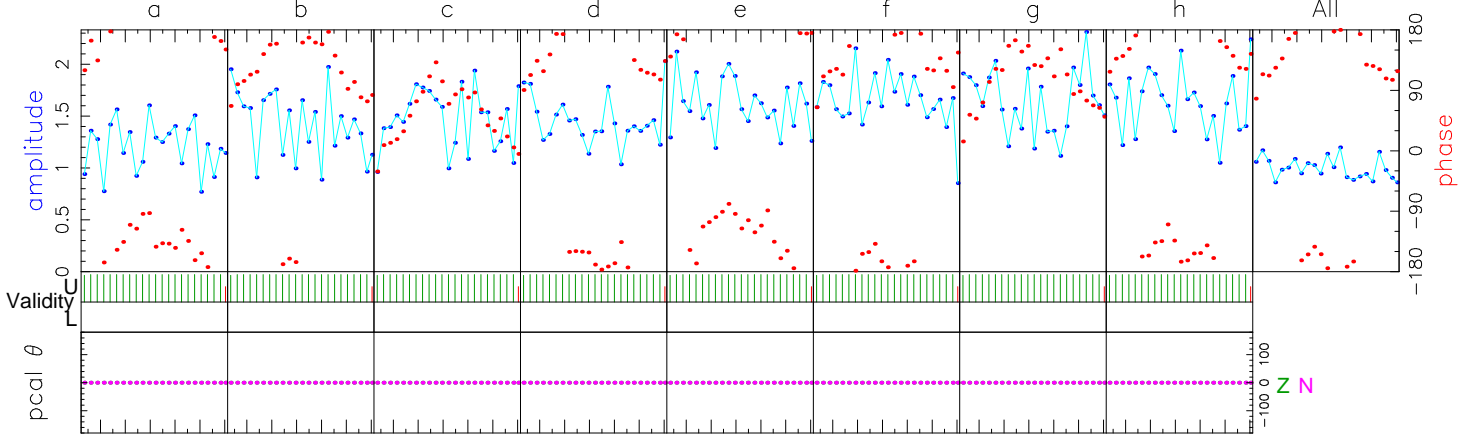


Fringe quality 4

SNR 39.6  
 Int time 346.110  
 Amp 0.778  
 Phase 155.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.003917  
 MBD 0.000845  
 Fringe rate (Hz)  
 0.003884  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. c222d  
 Exper # 16383  
 Yr:day 2022:283  
 Start 054513.31  
 Stop 055059.94  
 FRT 054800.00  
 Corr/FF/build  
 2023:044:091917  
 2023:044:130546  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160110s  
 +41°30'42.103638"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 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
	-153.2	134.3	57.7	158.5	-137.2	156.7	100.6	-178.8	Phase	155.2
	1.0	1.1	1.1	1.1	1.2	1.3	1.3	1.3	Ampl.	1.2
	256.3	257.5	258.3	258.7	258.4	258.4	258.4	257.5	Sbd box	258.0
U/L	677/0	677/0	677/0	677/0	677/0	677/0	677/0	677/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -1.69723097783E+03 Apriori delay (usec) -1.69723182276E+03 Resid mbdelay (usec) 8.44933E-04 +/- 2.7E-05  
 Sband delay (usec) -1.69722790526E+03 Apriori clock (usec) 1.2730165E+01 Resid sbdelay (usec) 3.91750E-03 +/- 2.2E-04  
 Phase delay (usec) -1.69723181776E+03 Apriori clockrate (us/s) 3.3299999E-08 Resid phdelay (usec) 5.00400E-06 +/- 9.3E-08  
 Delay rate (us/s) 1.57584679104E-01 Apriori rate (us/s) 1.57584634016E-01 Resid rate (us/s) 4.50876E-08 +/- 4.7E-10  
 Total phase (deg) 78.6 Apriori accel (us/s/s) 2.14831768946E-05 Resid phase (deg) 155.2 +/- 2.9

RMS Theor. Amplitude 0.778 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 39.6 6.9 Search (2048X32) 0.769 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 31.6 12.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 58.9 4.1 Inc. seg. avg. 0.995 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 52.7 7.2 Inc. frq. avg. 1.171 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

Z: az 285.6 el 40.4 pa 39.8 N: az 288.1 el 46.8 pa 64.9 u,v (fr/asec) -1173.103 2604.918 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c222d/v1/3mm/3001/No0058/ZN..2L956A Output file: /Exps/c222d/v1/3mm/3001/No0058/ZN.W.152.2L956A

