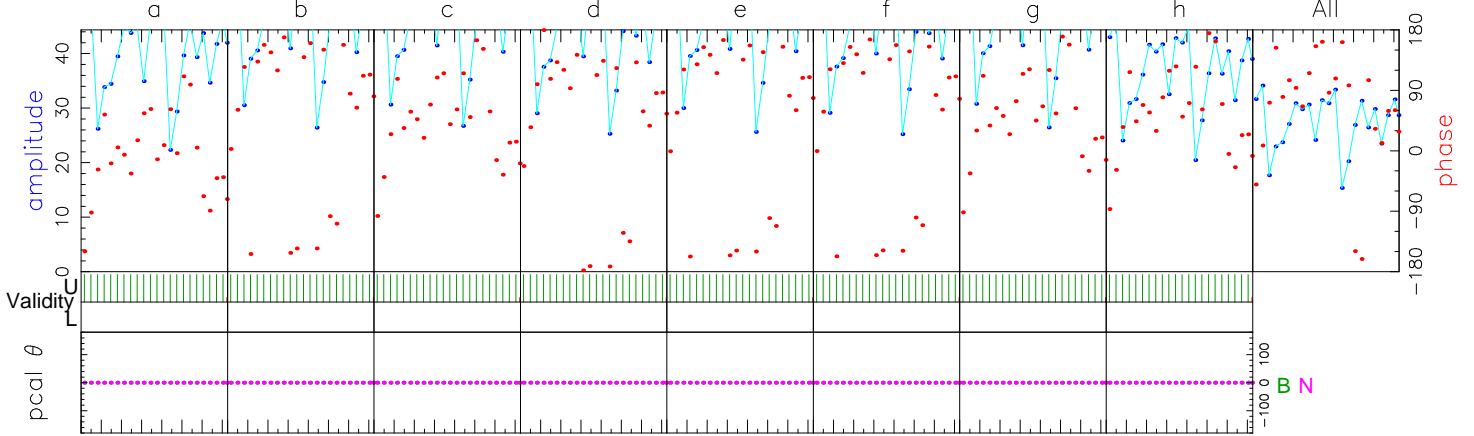


Fringe quality 1

SNR 828.5
Int time 419.793
Amp 14.786
Phase 93.7
PFD 0.0e+00
Delays (us)
SBD 0.015603
MBD -0.001152
Fringe rate (Hz)
0.002214
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143617
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-6.0	146.5	47.1	120.2	142.8	143.5	52.1	57.6	Phase	93.7
	21.6	25.3	25.4	24.2	25.2	24.4	25.7	20.0	Ampl.	24.0
	259.6	260.7	261.7	261.7	261.8	261.6	261.3	260.1	Sbd box	261.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.18143032995E+02		Apriori delay (usec)		5.18128559538E+02		Resid mbdelay (usec)		-1.15154E-03	+/- 1.3E-06
Sband delay (usec)	5.18144162538E+02		Apriori clock (usec)		-1.6678965E+01		Resid sbdelay (usec)		1.56030E-02	+/- 1.0E-05
Phase delay (usec)	5.18128562560E+02		Apriori clockrate (us/s)		1.2800000E-07		Resid phdelay (usec)		3.02225E-06	+/- 4.5E-09
Delay rate (us/s)	-8.32528668869E-02		Apriori rate (us/s)		-8.32528925863E-02		Resid rate (us/s)		2.56994E-08	+/- 1.8E-11
Total phase (deg)	136.4		Apriori accel (us/s/s)		2.33835456322E-06		Resid phase (deg)		93.7	+/- 0.1

ph/seg (deg) 62.0 0.3
amp/seg (%) 91.7 0.6
ph/frq (deg) 62.6 0.2
amp/frq (%) 63.5 0.3

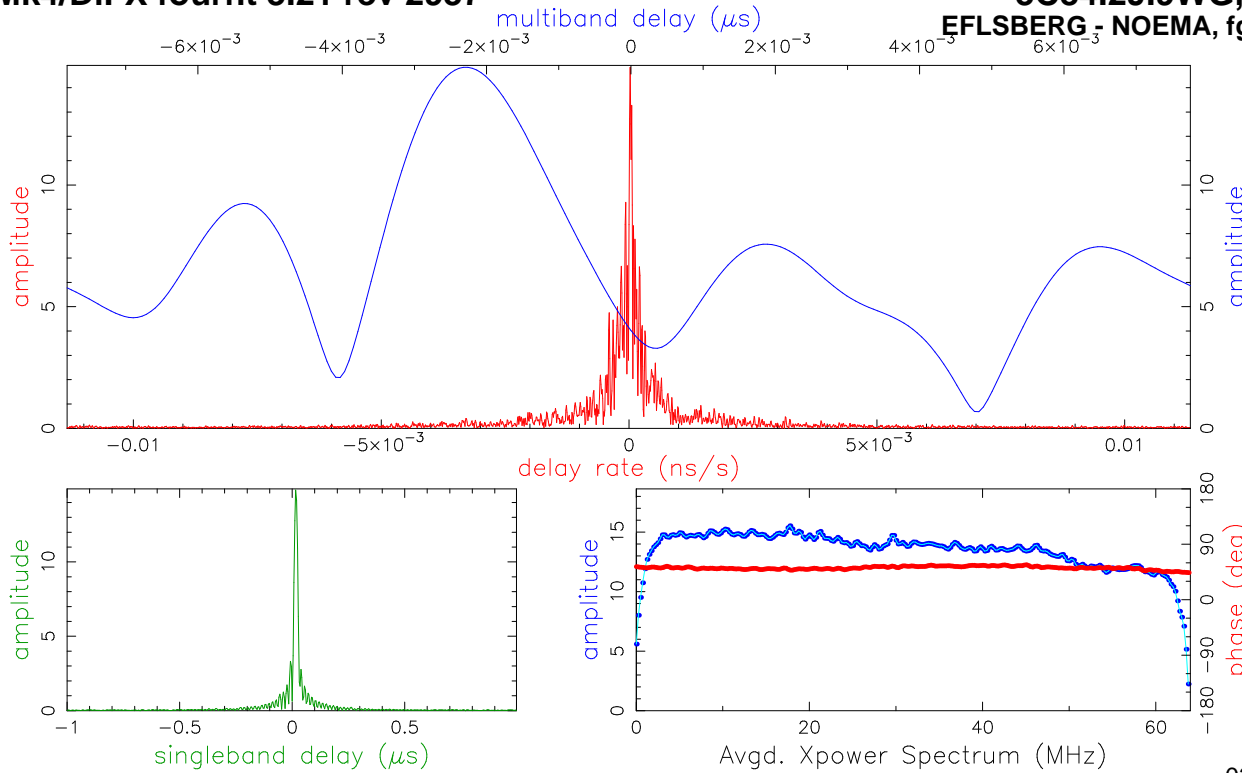
RMS Theor. Amplitude 14.786 +/- 0.018
Search (2048X32) 14.384
Interp. 0.000
Inc. seg. avg. 27.396
Inc. frq. avg. 23.974

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 77.9 el 48.2 pa -56.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 639.928 616.418 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/BN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/BN.W.1.2J19WG

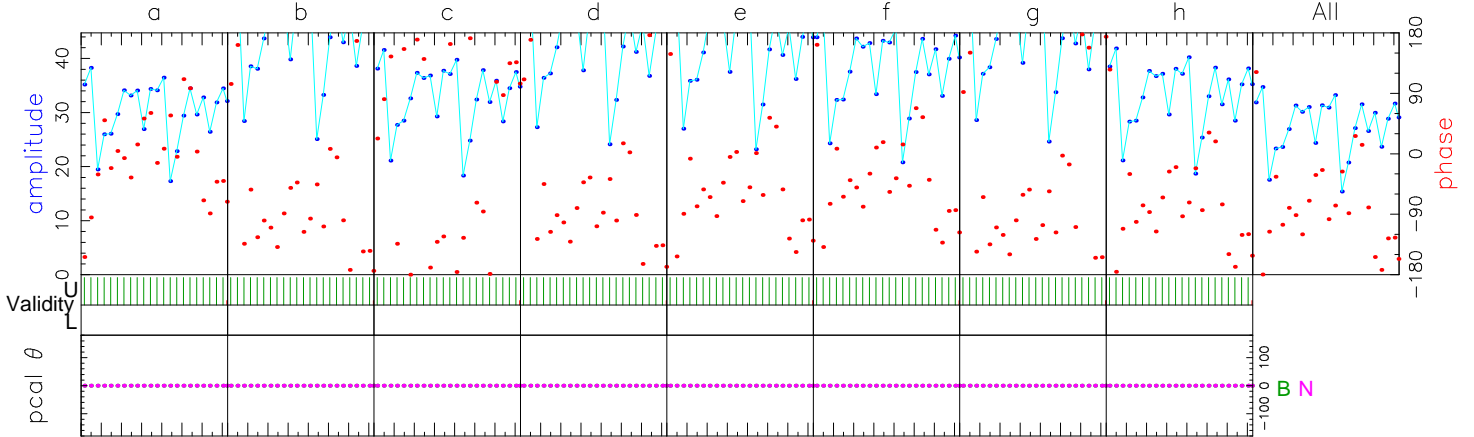


Fringe quality 1

SNR 835.7
Int time 419.803
Amp 14.916
Phase -91.6
PFD 0.0e+00
Delays (us)
SBD 0.016593
MBD -0.002250
Fringe rate (Hz) 0.002204
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143620
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.5	-110.6	169.2	-102.5	-64.6	-50.9	-121.0	-87.0	Phase	-91.6
	16.4	24.0	17.8	23.1	22.7	20.5	23.9	17.9	Ampl.	20.8
	258.9	260.9	261.6	261.4	261.8	261.6	261.4	259.9	Sbd box	261.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	
									Tracks	
Group delay (usec)(sbd)	5.18141934870E+02		Apriori delay (usec)		5.18128559538E+02		Resid mbdelay (usec)		-2.24967E-03	+/- 1.3E-06
Sband delay (usec)	5.18145152288E+02		Apriori clock (usec)		-1.6678965E+01		Resid sbdelay (usec)		1.65928E-02	+/- 1.0E-05
Phase delay (usec)	5.18128556584E+02		Apriori clockrate (us/s)		1.2800000E-07		Resid phdelay (usec)		-2.95436E-06	+/- 4.4E-09
Delay rate (us/s)	-8.32528669953E-02		Apriori rate (us/s)		-8.32528925863E-02		Resid rate (us/s)		2.55910E-08	+/- 1.8E-11
Total phase (deg)			Apriori accel (us/s/s)		2.33835456322E-06		Resid phase (deg)		-91.6	+/- 0.1

ph/seg (deg) 62.2 0.3
amp/seg (%) 91.1 0.6
ph/frq (deg) 58.7 0.2
amp/frq (%) 43.8 0.3

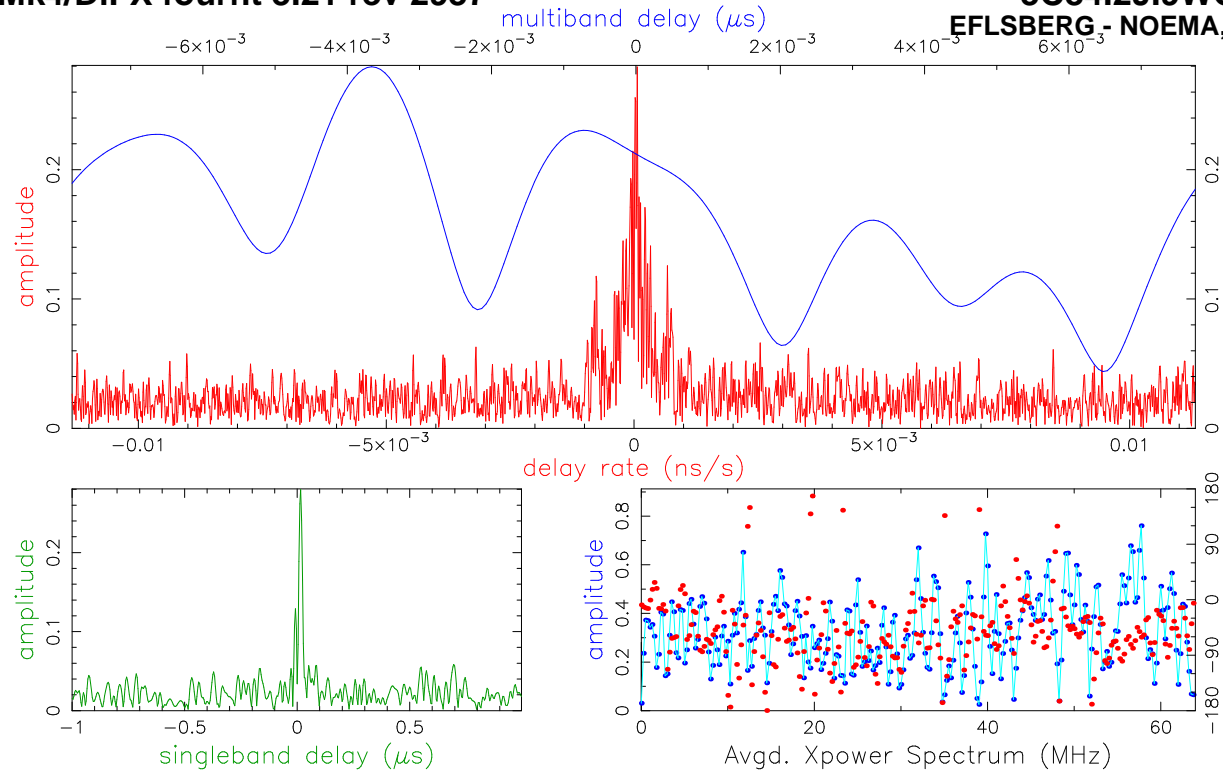
RMS Theor. Amplitude 14.916 +/- 0.018
Search (2048X32) 14.470
Interp. 0.000
Inc. seg. avg. 27.551
Inc. frq. avg. 20.783

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 77.9 el 48.2 pa -56.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 639.928 616.418 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/BN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/BN.W.2.2J19WG

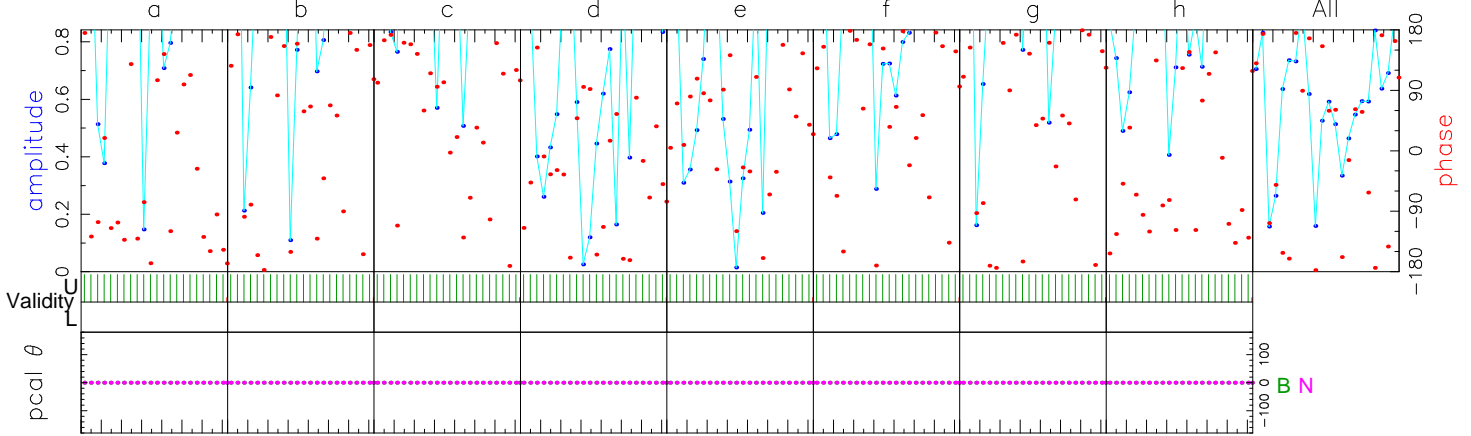


Fringe quality 7

SNR 15.7
Int time 419.803
Amp 0.281
Phase 158.6
PFD 0.0e+00
Delays (us)
SBD 0.014848
MBD -0.003678
Fringe rate (Hz) 0.005668
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143624
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



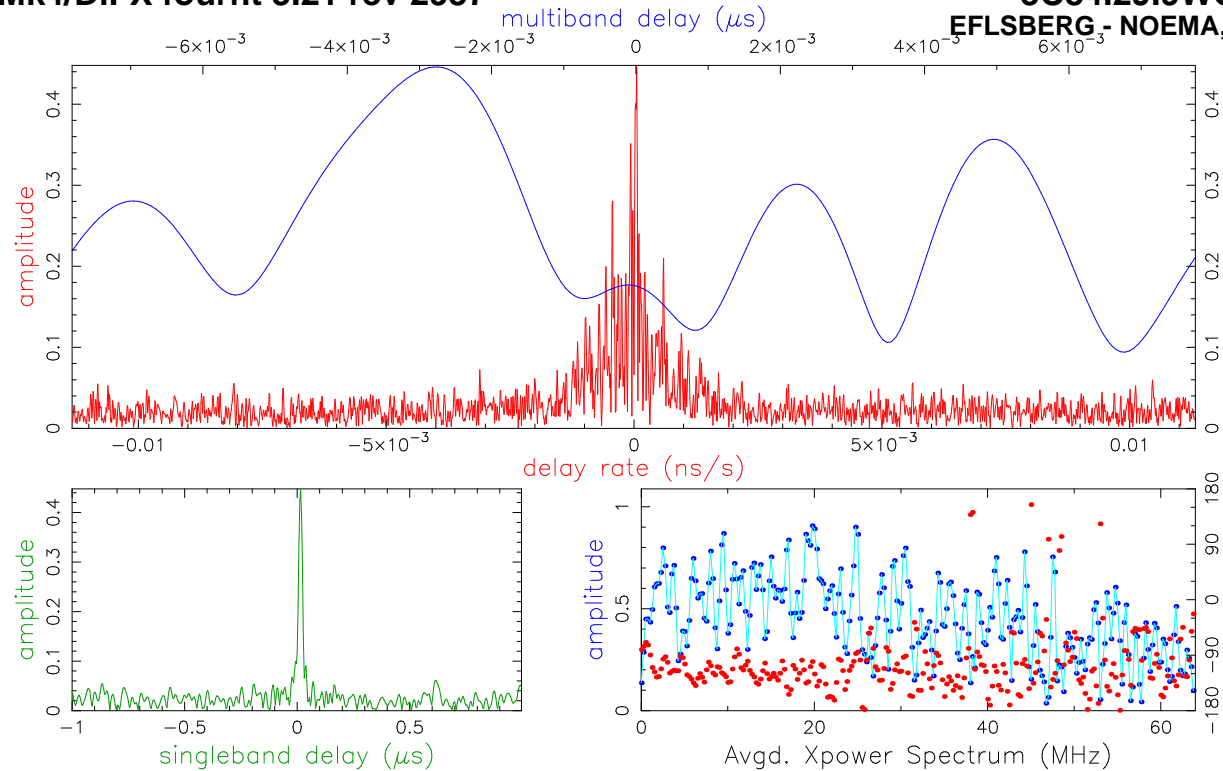
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-147.5	148.9	125.6	-51.3	57.0	151.7	146.6	-125.3	Phase	158.6
	0.5	0.6	0.6	0.2	0.3	0.4	0.6	0.4	Ampl.	0.5
	259.6	261.5	261.6	262.5	262.1	261.1	261.4	260.8	Sbd box	260.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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)	5.18140506440E+02	Apriori delay (usec)	5.18128559538E+02	Resid mbdelay (usec)	-3.67810E-03	+/-	6.9E-05
Sband delay (usec)	5.18143407788E+02	Apriori clock (usec)	-1.6678965E+01	Resid sbdelay (usec)	1.48482E-02	+/-	5.5E-04
Phase delay (usec)	5.18128564653E+02	Apriori clockrate (us/s)	1.2800000E-07	Resid phdelay (usec)	5.11534E-06	+/-	2.3E-07
Delay rate (us/s)	-8.32528267861E-02	Apriori rate (us/s)	-8.32528925863E-02	Resid rate (us/s)	6.58002E-08	+/-	9.7E-10
Total phase (deg)	201.3	Apriori accel (us/s/s)	2.33835456322E-06	Resid phase (deg)	158.6	+/-	7.3

ph/seg (deg)	RMS 78.6	Theor. 17.5	Amplitude Search (2048X32)	0.271	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	135.2	30.5	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	84.6	10.3	Inc. seg. avg.	0.568	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	80.9	18.0	Inc. frq. avg.	0.459	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 77.9 el 48.2 pa -56.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 639.928 616.418 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/BN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/BN.W.3.2J19WG

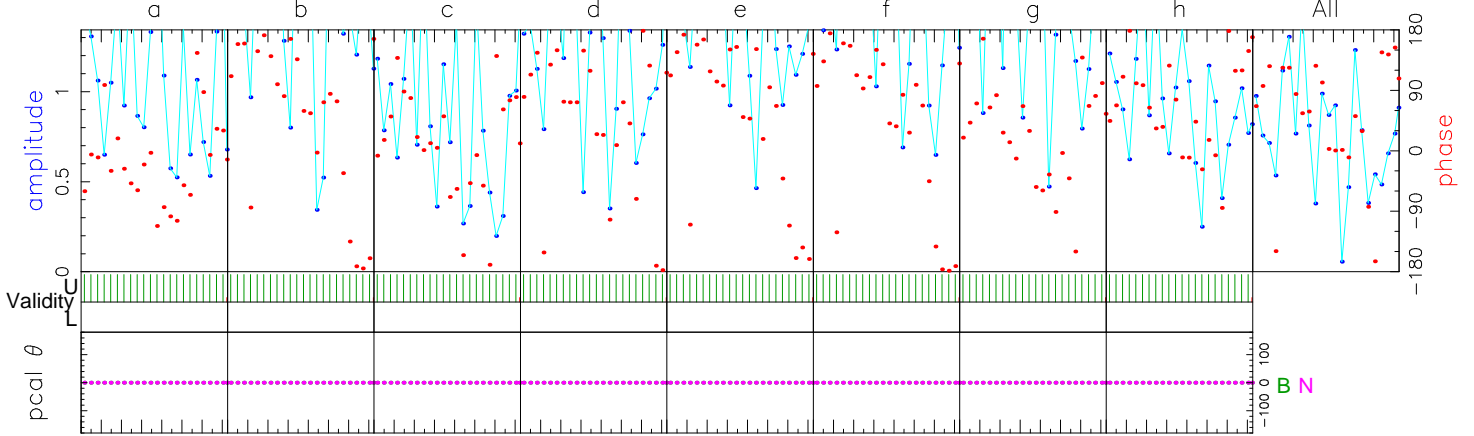


Fringe quality 5

SNR 25.1
Int time 419.793
Amp 0.448
Phase 86.4
PFD 0.0e+00
Delays (us)
SBD 0.014762
MBD -0.002744
Fringe rate (Hz) 0.004638
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

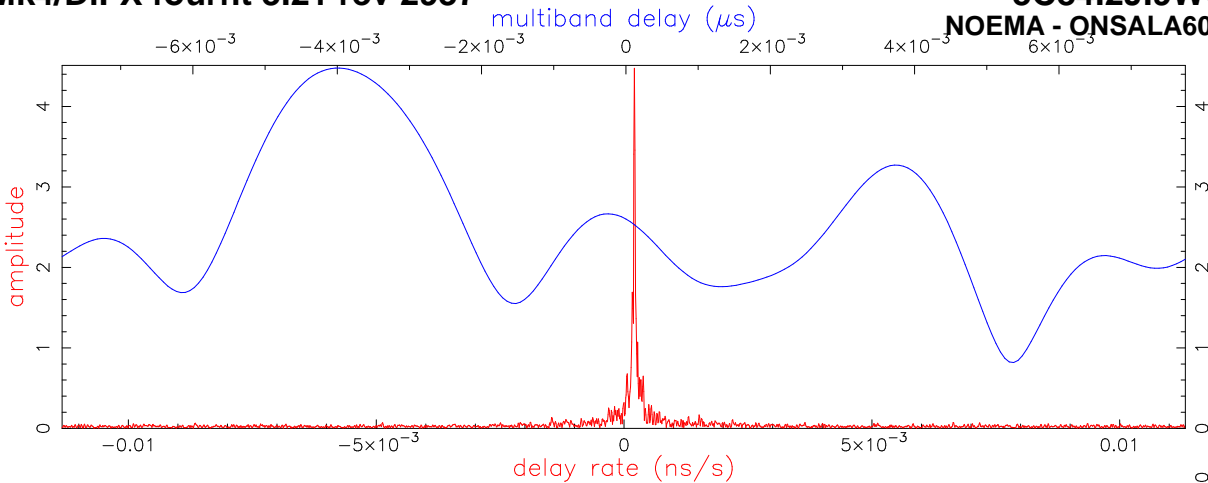
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143628
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



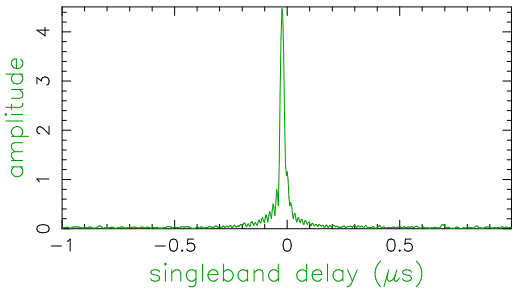
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-28.0	129.3	24.7	96.9	133.9	124.8	30.6	65.8	Phase	86.4
	0.6	0.9	0.5	0.7	0.8	1.0	0.8	0.6	Ampl.	0.7
	259.0	260.3	261.6	261.2	261.4	261.1	261.3	259.7	Sbd box	260.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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)	5.18141440086E+02		Apriori delay (usec)		5.18128559538E+02		Resid mbdelay (usec)		-2.74445E-03	+/- 4.3E-05
Sband delay (usec)	5.18143321538E+02		Apriori clock (usec)		-1.6678965E+01		Resid sbdelay (usec)		1.47620E-02	+/- 3.4E-04
Phase delay (usec)	5.18128562324E+02		Apriori clockrate (us/s)		1.2800000E-07		Resid phdelay (usec)		2.78562E-06	+/- 1.5E-07
Delay rate (us/s)	-8.32528387423E-02		Apriori rate (us/s)		-8.32528925863E-02		Resid rate (us/s)		5.38440E-08	+/- 6.1E-10
Total phase (deg)	129.1		Apriori accel (us/s/s)		2.33835456322E-06		Resid phase (deg)		86.4	+/- 4.6

ph/seg (deg) 70.9 11.0 Search (2048X32) 0.441 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 103.0 19.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 66.0 6.5 Inc. seg. avg. 0.760 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 71.6 11.3 Inc. frq. avg. 0.725 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 77.9 el 48.2 pa -56.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 639.928 616.418 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/BN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/BN.W.4.2J19WG

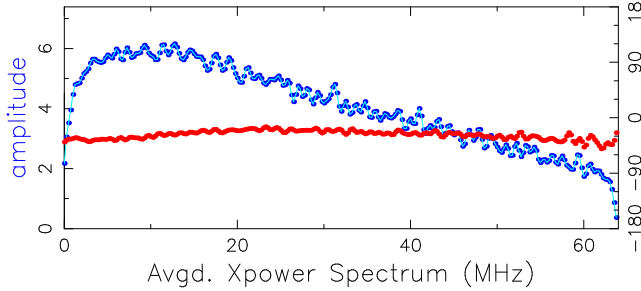


Fringe quality 3

SNR 252.6
Int time 419.703
Amp 4.510
Phase 120.9
PFD 0.0e+00
Delays (us)
SBD -0.022263
MBD -0.004050
Fringe rate (Hz)
0.018008
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

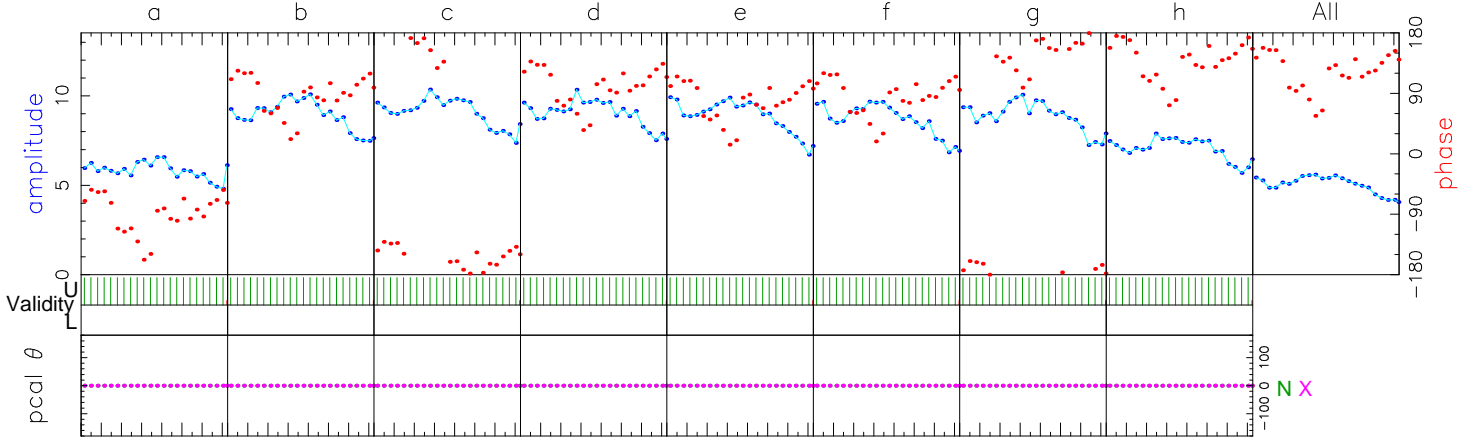


delay rate (ns/s)



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143708
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

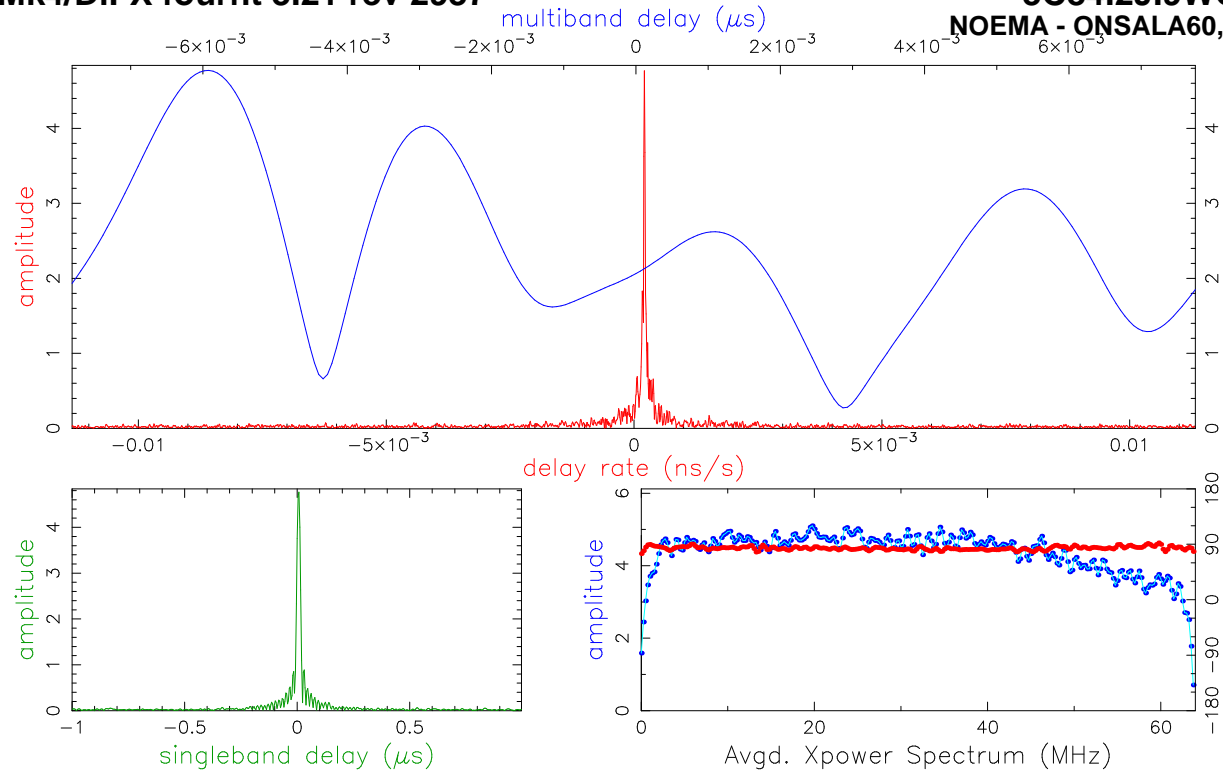


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-89.8	86.9	-167.5	99.9	77.4	84.0	163.5	137.3	Phase	120.9
	5.1	7.9	8.0	8.0	7.9	7.7	7.9	6.2	Ampl.	7.3
	253.2	251.4	251.2	250.8	251.0	250.9	251.4	252.2	Sbd box	251.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	Manl 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	

Group delay (usec)(sbd)	-1.47761189781E+03	Apriori delay (usec)	-1.47759222268E+03	Resid mbdelay (usec)	-4.05013E-03	+/-	4.3E-06
Sband delay (usec)	-1.47761448518E+03	Apriori clock (usec)	-8.5999023E+01	Resid sbdelay (usec)	-2.22625E-02	+/-	3.4E-05
Phase delay (usec)	-1.47759221878E+03	Apriori clockrate (us/s)	-8.1100003E-07	Resid phdelay (usec)	3.89807E-06	+/-	1.5E-08
Delay rate (us/s)	2.10274287659E-01	Apriori rate (us/s)	2.10274078610E-01	Resid rate (us/s)	2.09049E-07	+/-	6.0E-11
Total phase (deg)	98.6	Apriori accel (us/s/s)	-3.07377063116E-06	Resid phase (deg)	120.9	+/-	0.5

ph/seg (deg)	28.2	RMS	1.1	Theor.	4.510 +/- 0.018	Search (2048X32)	4.415	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	15.8	28.2	1.1	Amplitude	4.510 +/- 0.018	Search (2048X32)	4.415	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	75.7	15.8	1.9	Interp.	0.000	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	66.7	75.7	0.6	Inc. seg. avg.	5.071	Inc. seg. avg.	5.071	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
		66.7	1.1	Inc. frq. avg.	7.340	Inc. frq. avg.	7.340	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

N: az 71.3 el 45.9 pa -64.6 X: az 89.8 el 51.9 pa -46.0 u,v (fr/asec) -1612.651 -1128.047 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/NX..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/NX.W.137.2JI9WG

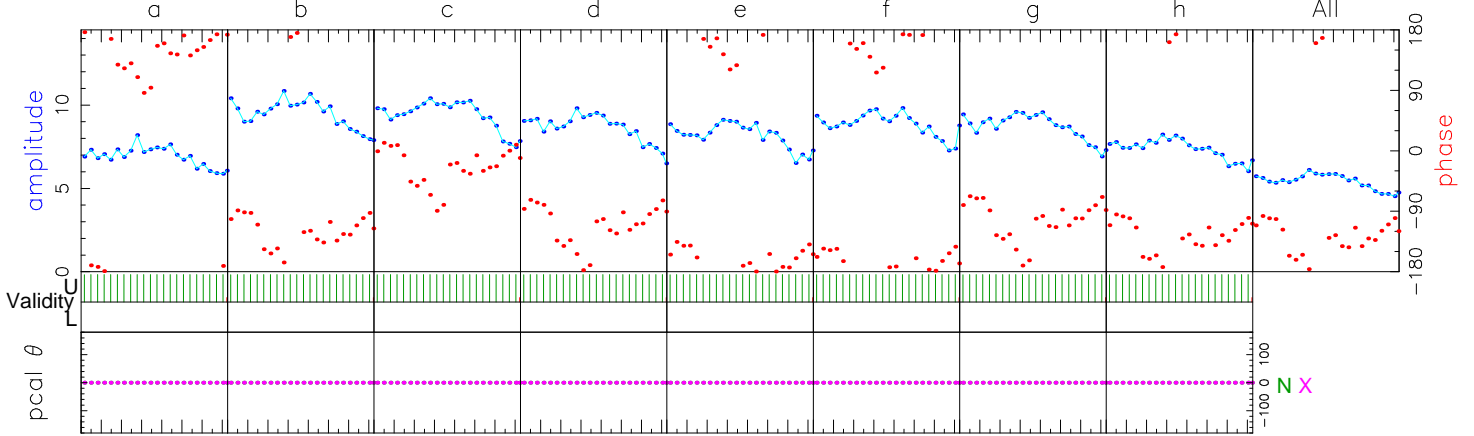


Fringe quality 3

SNR 271.1
Int time 419.713
Amp 4.839
Phase -134.5
PFD 0.0e+00
Delays (us)
SBD 0.006270
MBD -0.005980
Fringe rate (Hz) 0.018006
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

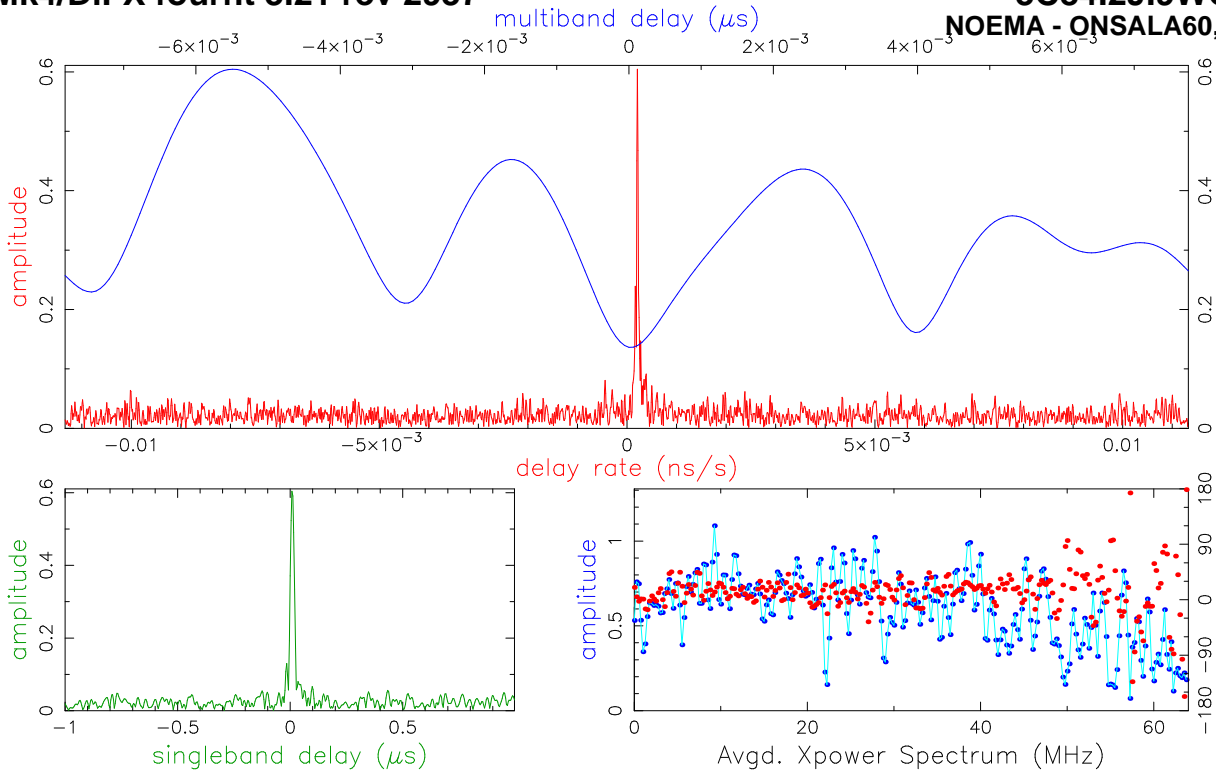
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143711
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	150.7	-126.0	-25.0	-111.2	-174.9	-179.9	-104.7	-133.1	Phase	-134.5
	6.1	8.4	8.4	7.6	7.2	7.8	7.7	6.5	Ampl.	7.4
	260.1	259.0	258.6	258.2	258.0	258.5	258.7	259.7	Sbd box	258.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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)	-1.47758257756E+03		Apriori delay (usec)		-1.47759222268E+03		Resid mbdelay (usec)		-5.97988E-03	+/- 4.0E-06
Sband delay (usec)	-1.47758595268E+03		Apriori clock (usec)		-8.5999023E+01		Resid sbdelay (usec)		6.27000E-03	+/- 3.2E-05
Phase delay (usec)	-1.47759222702E+03		Apriori clockrate (us/s)		-8.1100003E-07		Resid phdelay (usec)		-4.33812E-06	+/- 1.4E-08
Delay rate (us/s)	2.10274287639E-01		Apriori rate (us/s)		2.10274078610E-01		Resid rate (us/s)		2.09029E-07	+/- 5.6E-11
Total phase (deg)			Apriori accel (us/s/s)		-3.07377063116E-06		Resid phase (deg)		-134.5	+/- 0.4

ph/seg (deg) 28.7 1.0 Search (2048X32) 4.688 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 15.2 1.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.6 0.6 Inc. seg. avg. 5.434 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.1 1.0 Inc. frq. avg. 7.443 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 71.3 el 45.9 pa -64.6 X: az 89.8 el 51.9 pa -46.0 u,v (fr/asec) -1612.651 -1128.047 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/NX..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/NX.W.147.2J19WG

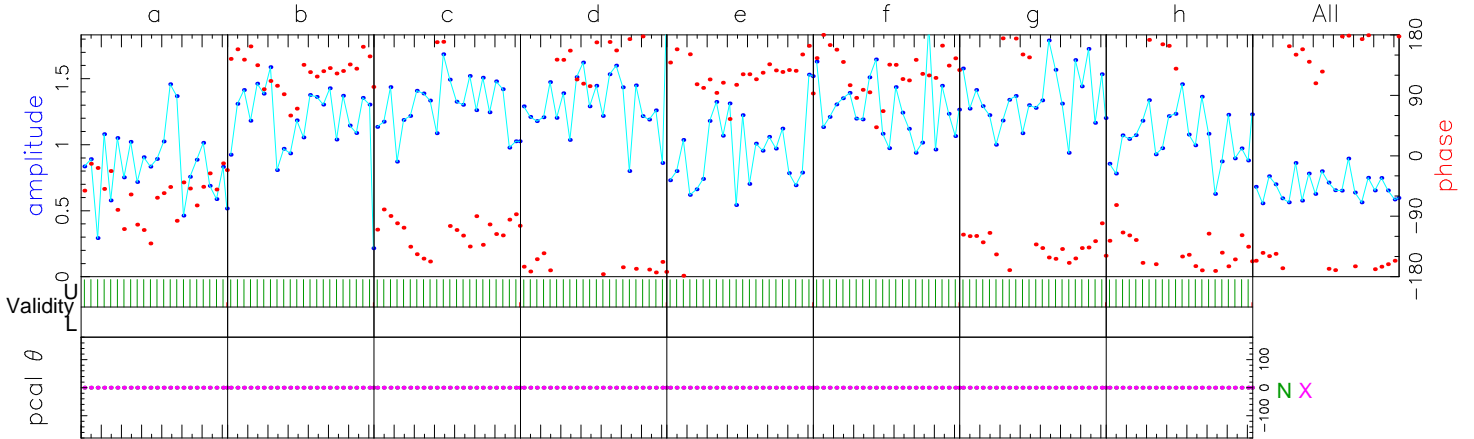


Fringe quality 4

SNR 34.2
Int time 419.703
Amp 0.611
Phase -179.8
PFD 0.0e+00
Delays (us)
SBD 0.009231
MBD -0.005502
Fringe rate (Hz)
0.017969
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143714
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

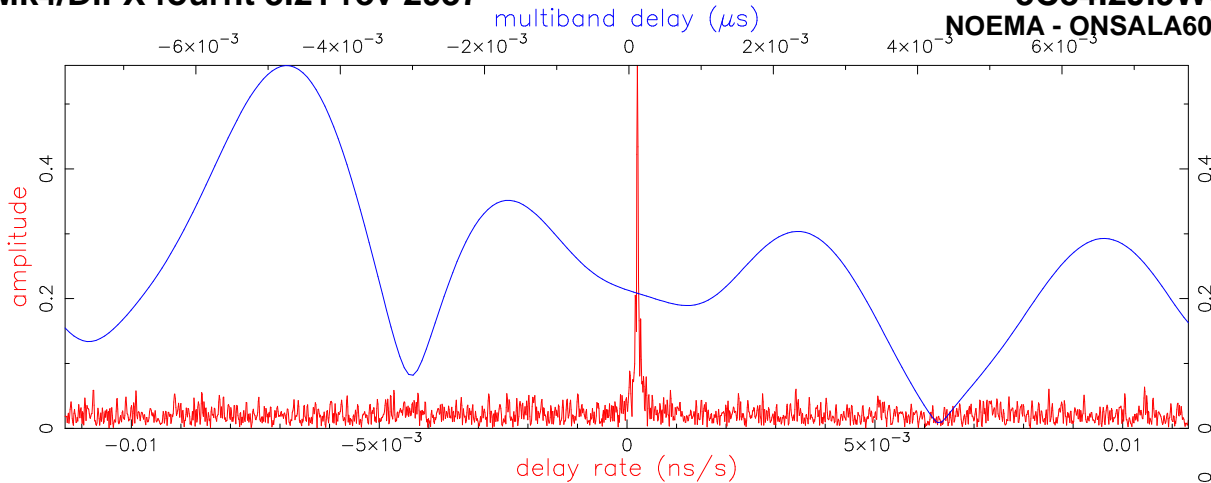


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-60.9	126.3	-121.8	170.4	124.1	123.9	-144.9	-153.2	Phase	-179.8
	0.7	1.1	1.1	1.1	0.8	1.1	1.2	0.9	Ampl.	1.0
	260.4	259.4	259.0	258.7	258.2	258.8	258.8	260.2	Sbd box	259.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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)	-1.47758209937E+03		Apriori delay (usec)		-1.47759222268E+03		Resid mbdelay (usec)		-5.50169E-03	+/- 3.2E-05
Sband delay (usec)	-1.47758299193E+03		Apriori clock (usec)		-8.5999023E+01		Resid sbdelay (usec)		9.23075E-03	+/- 2.5E-04
Phase delay (usec)	-1.47759222848E+03		Apriori clockrate (us/s)		-8.1100003E-07		Resid phdelay (usec)		-5.79961E-06	+/- 1.1E-07
Delay rate (us/s)	2.10274287211E-01		Apriori rate (us/s)		2.10274078610E-01		Resid rate (us/s)		2.08601E-07	+/- 4.5E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.07377063116E-06		Resid phase (deg)		-179.8	+/- 3.3

	RMS	Theor.	Amplitude	0.611 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	28.0	8.0	Search (2048X32)	0.592	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	19.4	14.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	69.2	4.7	Inc. seg. avg.	0.675	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.1	8.3	Inc. frq. avg.	1.007	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

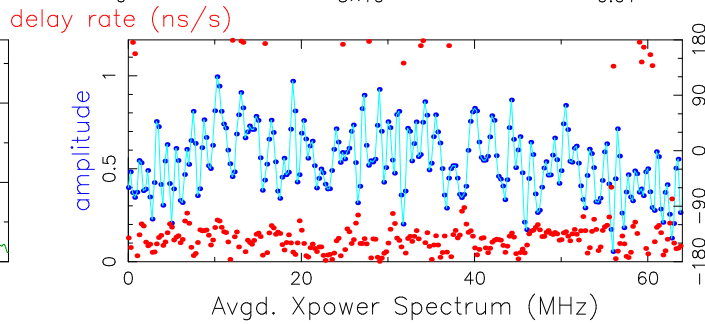
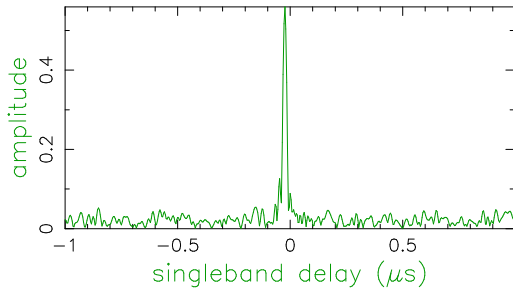
N: az 71.3 el 45.9 pa -64.6 X: az 89.8 el 51.9 pa -46.0 u,v (fr/asec) -1612.651 -1128.047 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/NX..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/NX.W.154.2J19WG



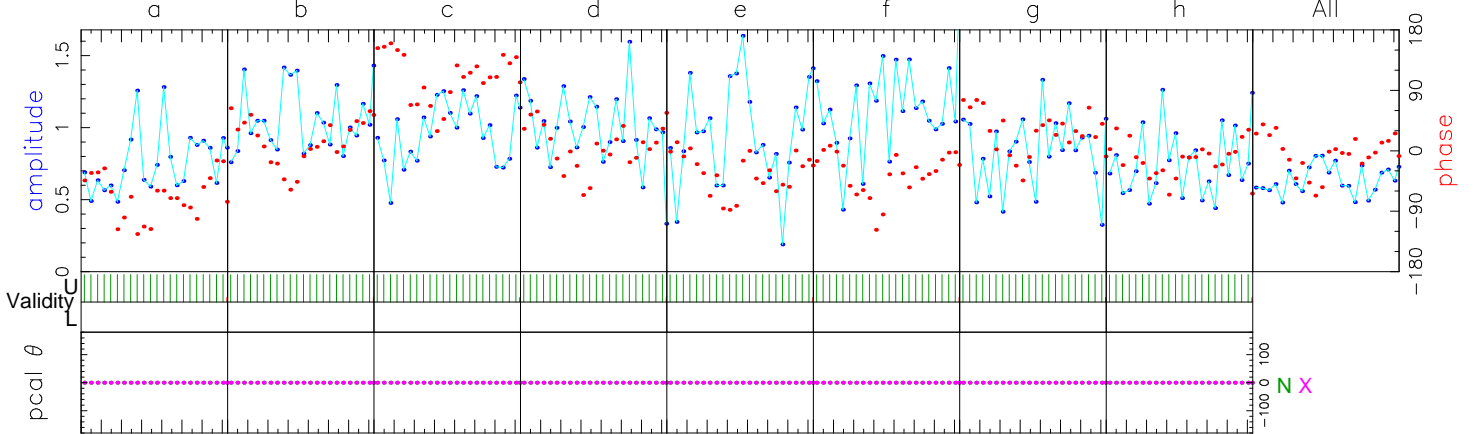
Fringe quality 4

SNR 31.4
Int time 419.713
Amp 0.560
Phase -5.3
PFD 0.0e+00
Delays (us)
SBD -0.023718
MBD -0.004754
Fringe rate (Hz)
0.018026
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143717
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

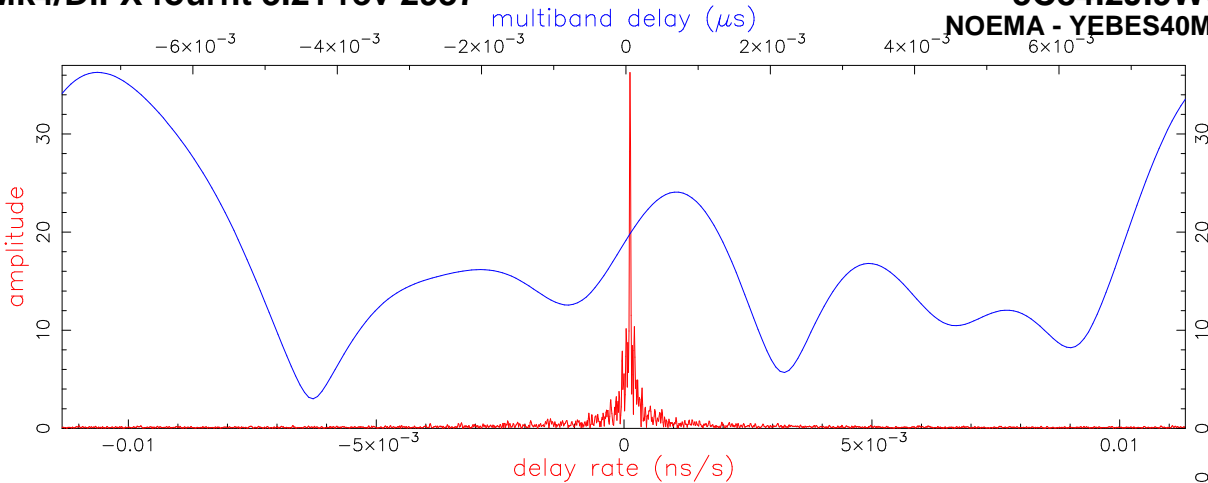


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-68.4	10.8	108.8	4.1	-32.1	-34.4	27.9	-11.9	Phase	-5.3
	0.6	0.9	0.8	0.9	0.8	0.9	0.7	0.7	Ampl.	0.8
	252.8	251.1	251.0	250.3	250.6	250.8	251.3	251.7	Sbd box	250.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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)	-1.47761260150E+03		Apriori delay (usec)		-1.47759222268E+03		Resid mbdelay (usec)		-4.75382E-03	+/- 3.5E-05
Sband delay (usec)	-1.47761594043E+03		Apriori clock (usec)		-8.5999023E+01		Resid sbdelay (usec)		-2.37177E-02	+/- 2.7E-04
Phase delay (usec)	-1.47759222285E+03		Apriori clockrate (us/s)		-8.1100003E-07		Resid phdelay (usec)		-1.69816E-07	+/- 1.2E-07
Delay rate (us/s)	2.10274287868E-01		Apriori rate (us/s)		2.10274078610E-01		Resid rate (us/s)		2.09258E-07	+/- 4.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.07377063116E-06		Resid phase (deg)		-5.3	+/- 3.7

	RMS	Theor.	Amplitude	0.560 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	27.9	8.8	Search (2048X32)	0.551	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	22.0	15.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	57.8	5.2	Inc. seg. avg.	0.629	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	44.4	9.0	Inc. frq. avg.	0.785	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

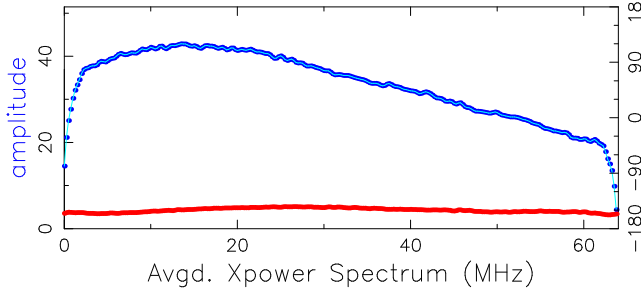
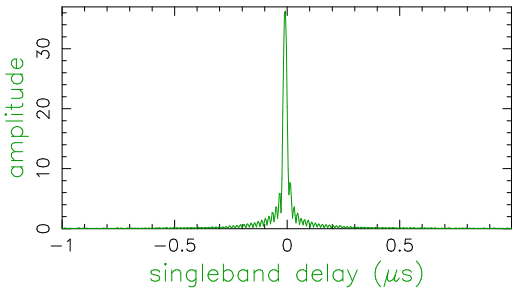
N: az 71.3 el 45.9 pa -64.6 X: az 89.8 el 51.9 pa -46.0 u,v (fr/asec) -1612.651 -1128.047 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/NX..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/NX.W.160.2JI9WG



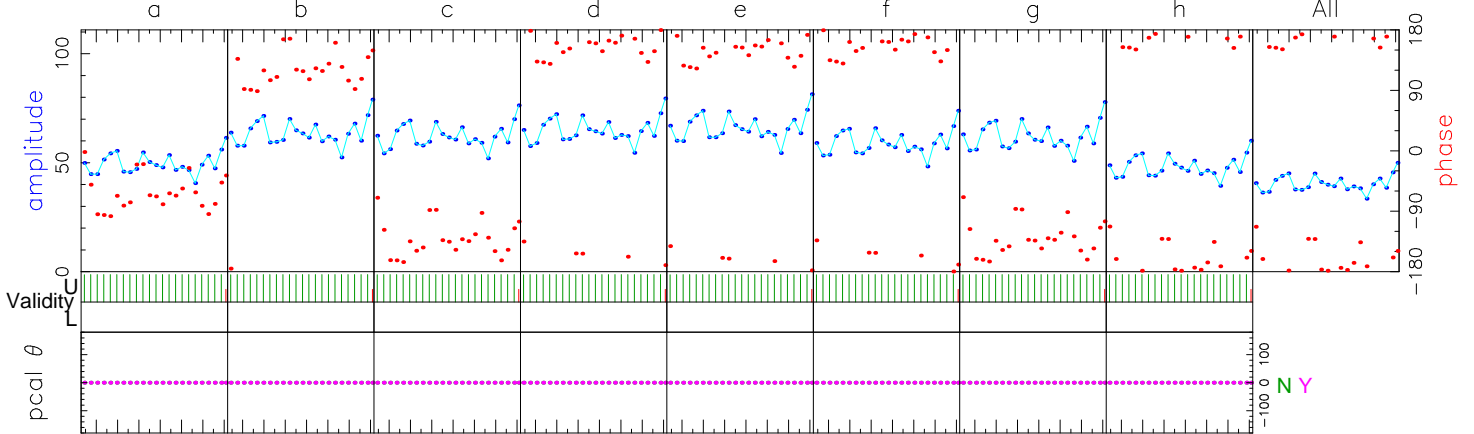
Fringe quality 3

SNR 2028.8
Int time 402.304
Amp 36.990
Phase -174.2
PFD 0.0e+00
Delays (us)
SBD -0.009643
MBD -0.007289
Fringe rate (Hz)
0.010036
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100017.41
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143637
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 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
	-63.4	123.0	-131.1	164.1	157.4	165.6	-129.7	-174.2	Phase	-174.2
	44.5	57.1	55.8	58.3	59.4	53.1	55.7	43.2	Ampl.	53.4
	256.6	255.0	254.3	254.3	254.2	254.0	254.4	254.2	Sbd box	254.5
U/L	786/0	786/0	786/0	786/0	786/0	786/0	786/0	786/0	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	Manl 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	

Group delay (usec)(sbd)	2.10625131685E+03	Apriori delay (usec)	2.10625860633E+03	Resid mbdelay (usec)	-7.28948E-03	+/-	5.3E-07
Sband delay (usec)	2.10624896283E+03	Apriori clock (usec)	7.5737915E+00	Resid sbdelay (usec)	-9.64350E-03	+/-	4.2E-06
Phase delay (usec)	2.10625860071E+03	Apriori clockrate (us/s)	1.3000000E-06	Resid phdelay (usec)	-5.61817E-06	+/-	1.8E-09
Delay rate (us/s)	-1.06708743594E-01	Apriori rate (us/s)	-1.06708860098E-01	Resid rate (us/s)	1.16504E-07	+/-	7.8E-12
Total phase (deg)	-48.5	Apriori accel (us/s/s)	-7.18921104459E-06	Resid phase (deg)	-174.2	+/-	0.1

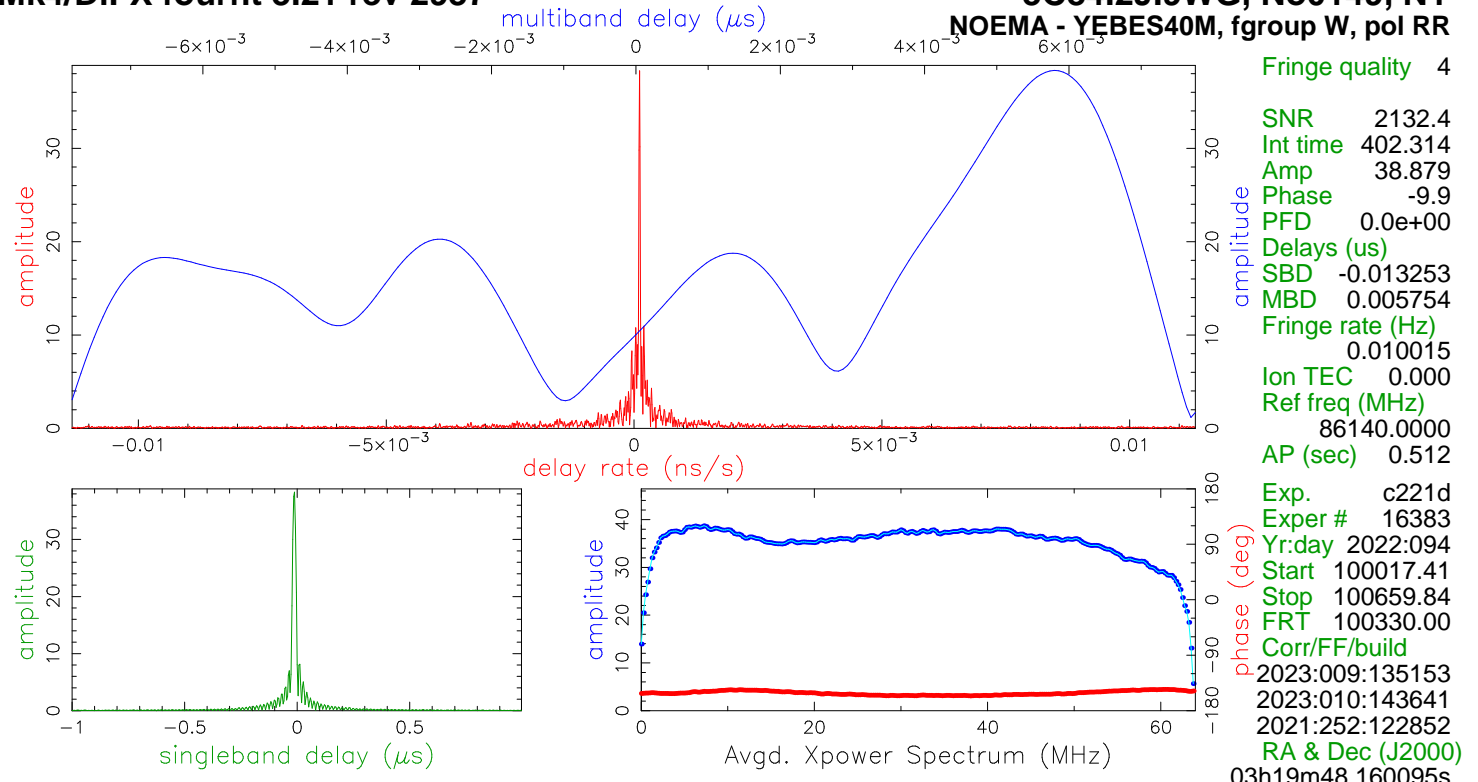
ph/seg (deg)	26.1	Theor.	Amplitude	36.990 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	12.8	0.1	Search (2048X32)	34.255	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	60.2	0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	47.0	0.1	Inc. seg. avg.	40.331	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
			Inc. frq. avg.	53.389	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

N: az 71.3 el 45.9 pa -64.6 Y: az 64.0 el 38.3 pa -66.4 u,v (fr/asec) 805.906 -156.437 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/NY..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/NY.W.12.2JI9WG

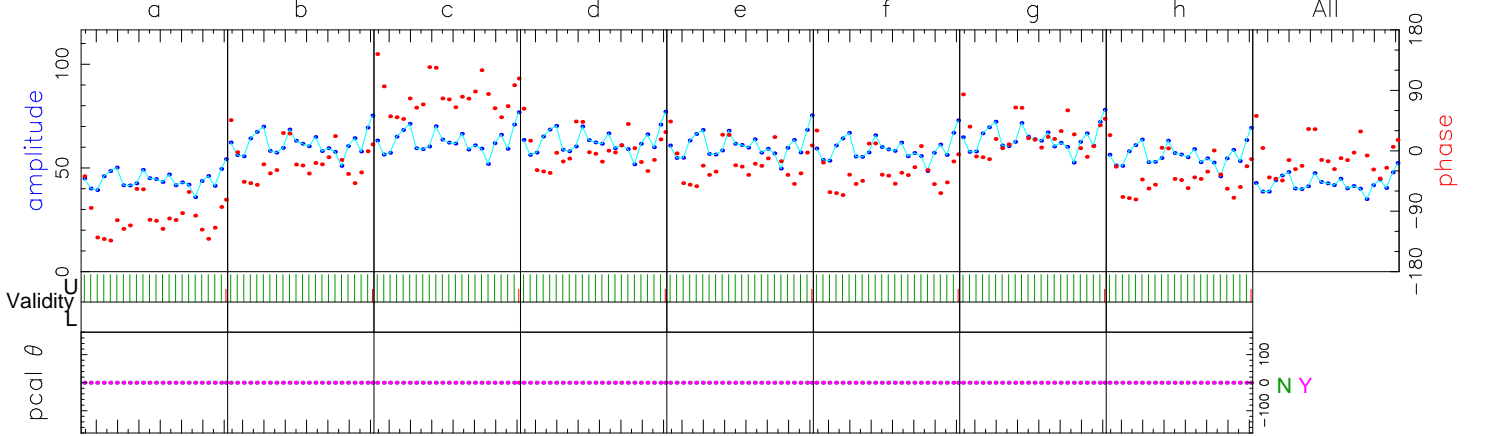
Mk4/DiFX fourfit 3.21 rev 2937

3C84.2JI9WG, No0149, NY
NOEMA - YEBES40M, fgroup W, pol RR



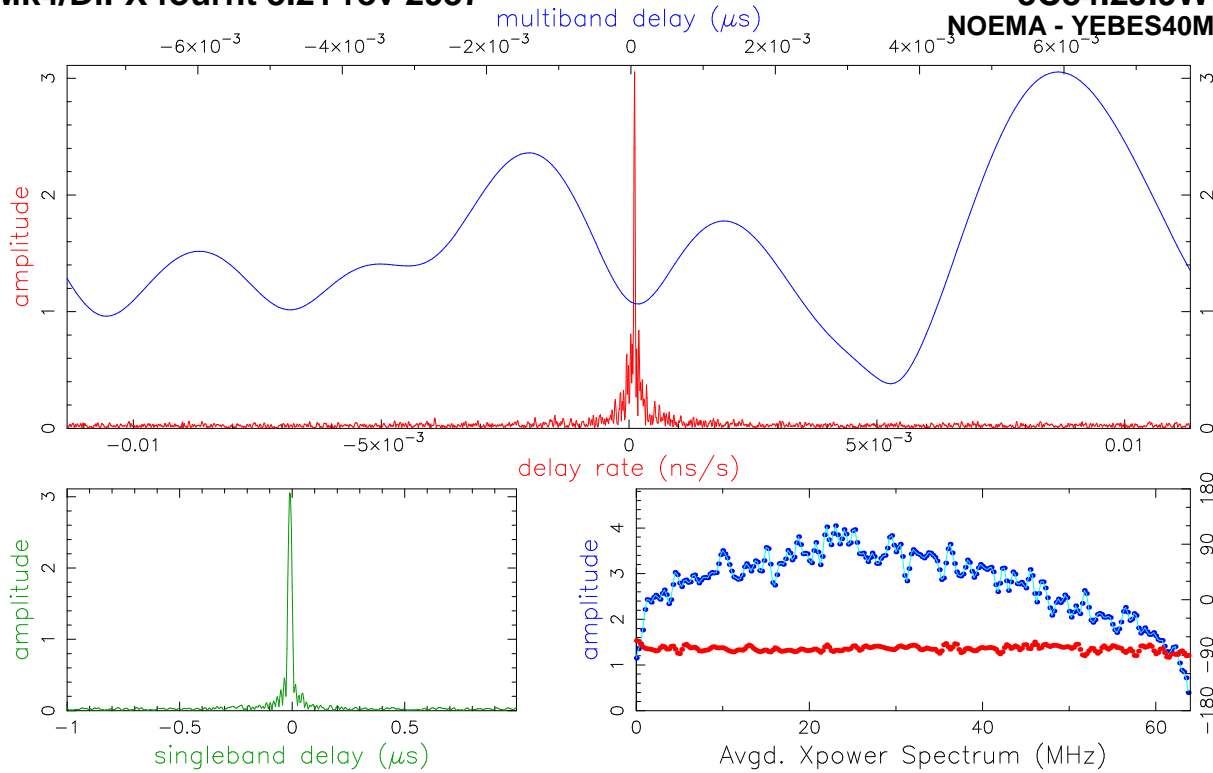
Fringe quality 4
SNR 2132.4
Int time 402.314
Amp 38.879
Phase -9.9
PFD 0.0e+00
Delays (us)
SBD -0.013253
MBD 0.005754
Fringe rate (Hz) 0.010015
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100017.41
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143641
2021:252:122852
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



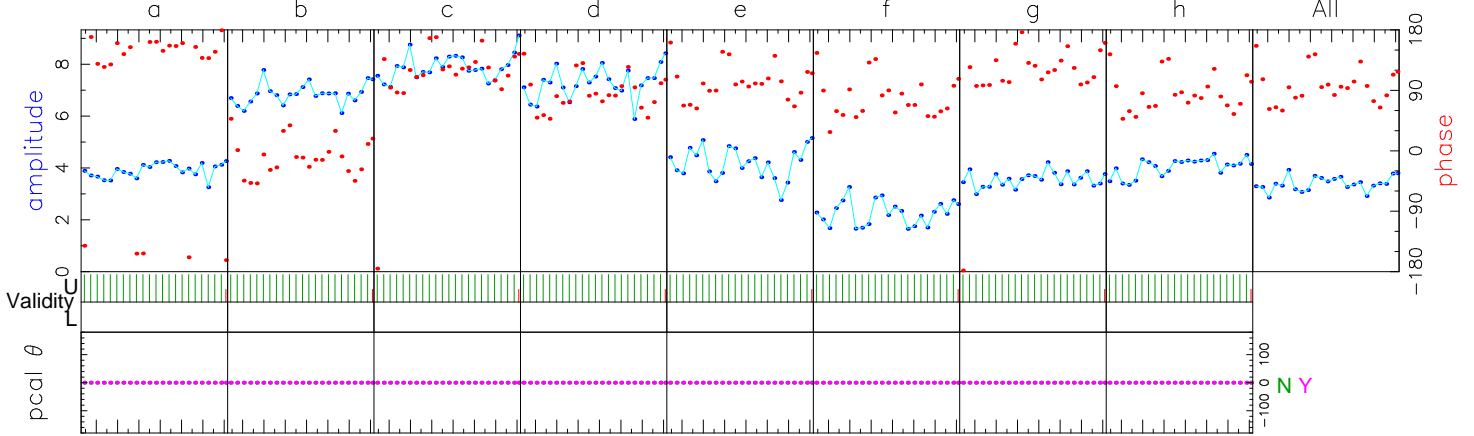
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-99.2	-16.5	81.5	1.2	-18.3	-31.6	21.9	-38.3	Phase	-9.9
	39.8	55.5	56.5	56.5	54.6	53.1	57.7	50.6	Ampl.	53.0
	256.0	253.6	253.8	253.7	253.2	253.3	253.7	253.8	Sbd box	253.6
U/L	786/0	786/0	786/0	786/0	786/0	786/0	786/0	786/0	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	Manl 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	
									Tracks	
Group delay (usec)(sbd)	2.10624873535E+03		Apriori delay (usec)		2.10625860633E+03		Resid mbdelay (usec)		5.75402E-03	+/- 5.1E-07
Sband delay (usec)	2.10624535383E+03		Apriori clock (usec)		7.5737915E+00		Resid sbdelay (usec)		-1.32525E-02	+/- 4.0E-06
Phase delay (usec)	2.10625860601E+03		Apriori clockrate (us/s)		1.3000000E-06		Resid phdelay (usec)		-3.20439E-07	+/- 1.7E-09
Delay rate (us/s)	-1.06708743838E-01		Apriori rate (us/s)		-1.06708860098E-01		Resid rate (us/s)		1.16259E-07	+/- 7.5E-12
Total phase (deg)	115.7		Apriori accel (us/s/s)		-7.18921104459E-06		Resid phase (deg)		-9.9	+/- 0.1

RMS Theor. Amplitude 38.879 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 25.9 0.1 Search (2048X32) 35.945 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 13.0 0.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 56.1 0.1 Inc. seg. avg. 42.534 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 39.0 0.1 Inc. frq. avg. 53.036 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 N: az 71.3 el 45.9 pa -64.6 Y: az 64.0 el 38.3 pa -66.4 u,v (fr/asec) 805.906 -156.437 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/NY..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/NY.W.26.2JI9WG



Fringe quality 3
SNR 170.6
Int time 402.304
Amp 3.111
Phase 96.6
PFD 0.0e+00
Delays (us)
SBD -0.009892
MBD 0.005922
Fringe rate (Hz)
0.010026
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100017.41
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143644
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 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
	161.8	-10.1	124.6	85.8	101.4	79.4	125.2	85.8	Phase	96.6
	3.5	6.1	7.1	6.5	3.8	2.0	3.2	3.6	Ampl.	4.5
	256.1	254.0	254.3	254.2	253.5	253.1	253.9	254.0	Sbd box	254.5
U/L	786/0	786/0	786/0	786/0	786/0	786/0	786/0	786/0	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	Manl 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	

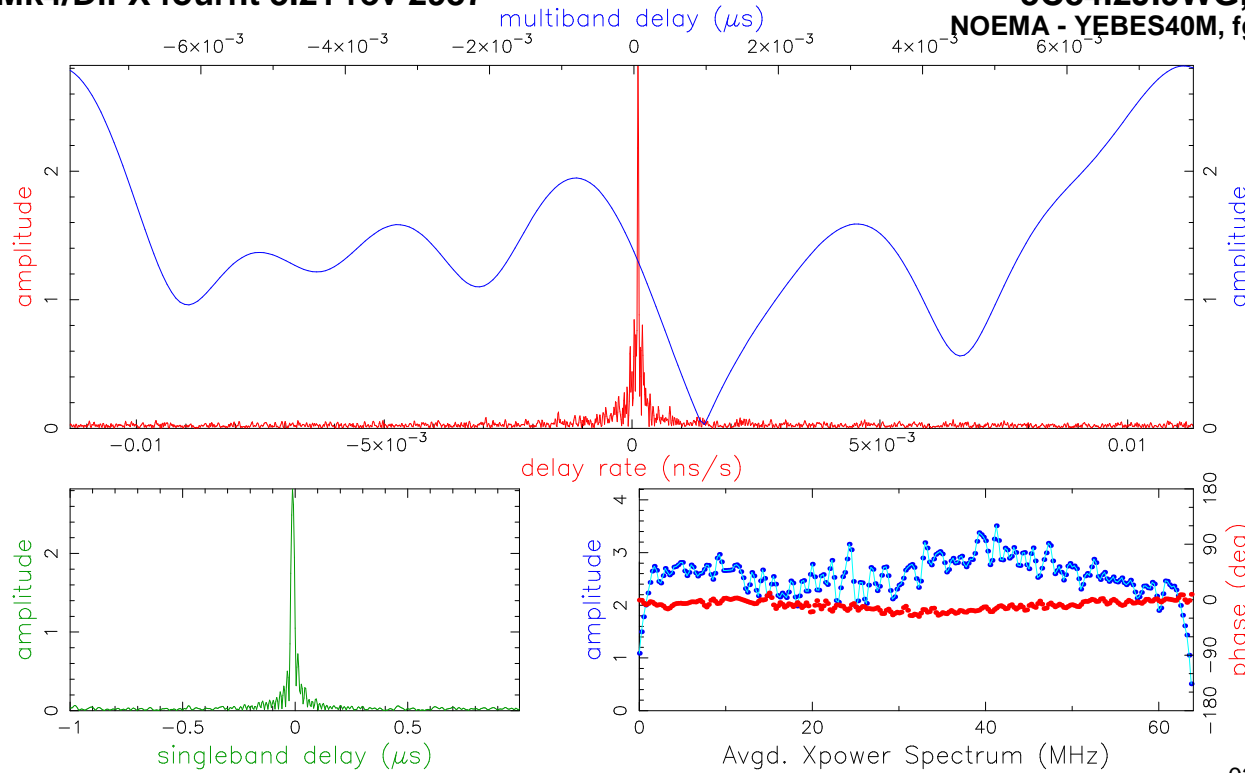
Group delay (usec)(sbd)	2.10624890338E+03	Apriori delay (usec)	2.10625860633E+03	Resid mbdelay (usec)	5.92205E-03	+/-	6.4E-06
Sband delay (usec)	2.10624871433E+03	Apriori clock (usec)	7.5737915E+00	Resid sbdelay (usec)	-9.89200E-03	+/-	5.0E-05
Phase delay (usec)	2.10625860944E+03	Apriori clockrate (us/s)	1.3000000E-06	Resid phdelay (usec)	3.11638E-06	+/-	2.2E-08
Delay rate (us/s)	-1.06708743709E-01	Apriori rate (us/s)	-1.06708860098E-01	Resid rate (us/s)	1.16389E-07	+/-	9.3E-11
Total phase (deg)	222.3	Apriori accel (us/s/s)	-7.18921104459E-06	Resid phase (deg)	96.6	+/-	0.7

	RMS	Theor.	Amplitude	3.111 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	26.3	1.6	Search (2048X32)	2.878	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	12.4	2.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	54.4	0.9	Inc. seg. avg.	3.391	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	70.7	1.7	Inc. frq. avg.	4.483	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

N: az 71.3 el 45.9 pa -64.6 Y: az 64.0 el 38.3 pa -66.4 u, v (fr/asec) 805.906 -156.437 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/NY..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/NY.W.47.2J19WG

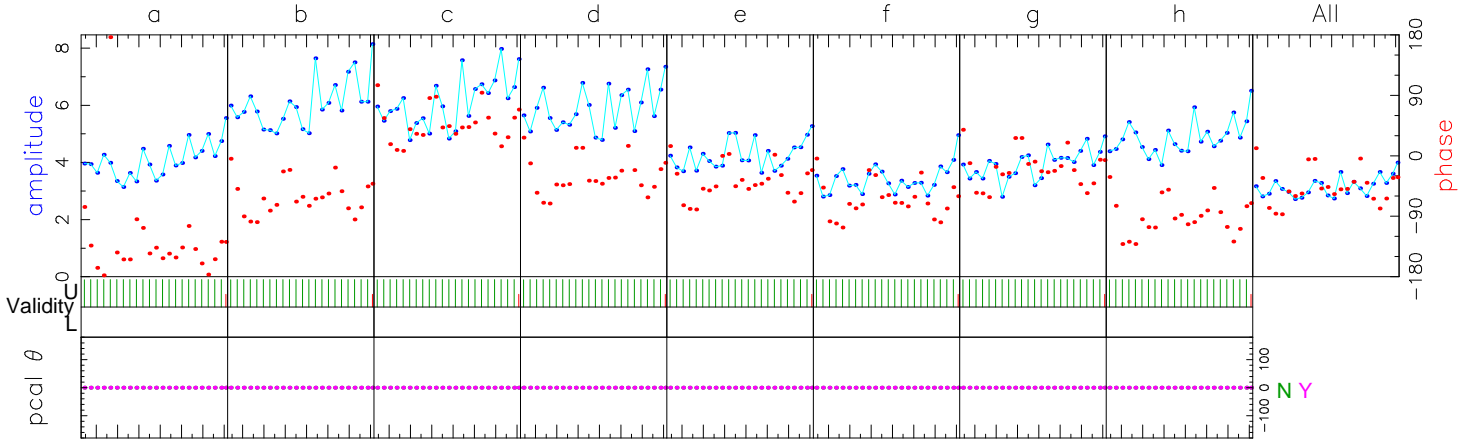
Mk4/DiFX fourfit 3.21 rev 2937

3C84.2JI9WG, No0149, NY
NOEMA - YEBES40M, fgroup W, pol RL



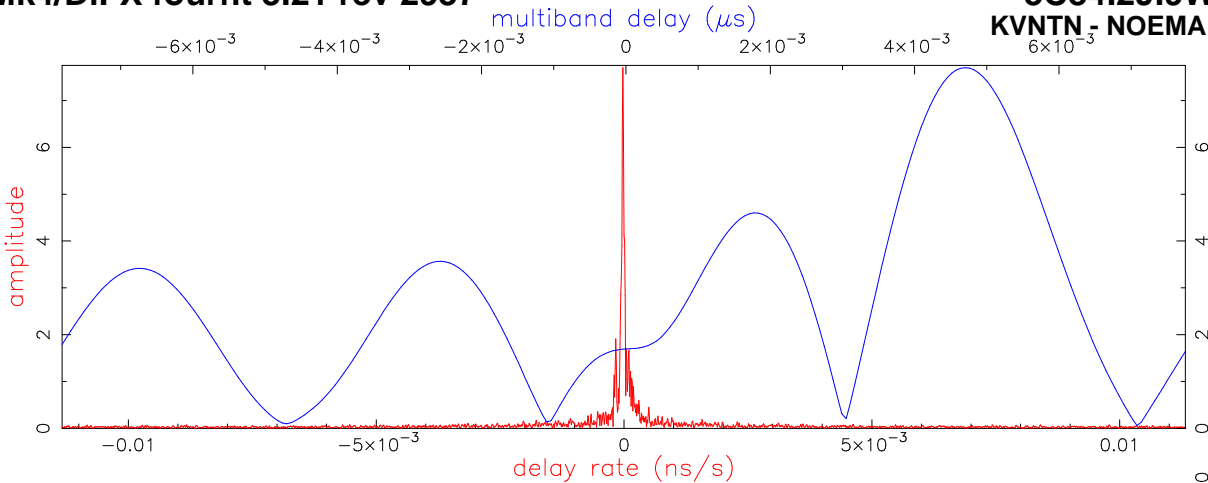
Fringe quality 3
SNR 154.8
Int time 402.314
Amp 2.822
Phase -46.7
PFD 0.0e+00
Delays (us)
SBD -0.011222
MBD -0.007983
Fringe rate (Hz) 0.010034
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100017.41
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143648
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



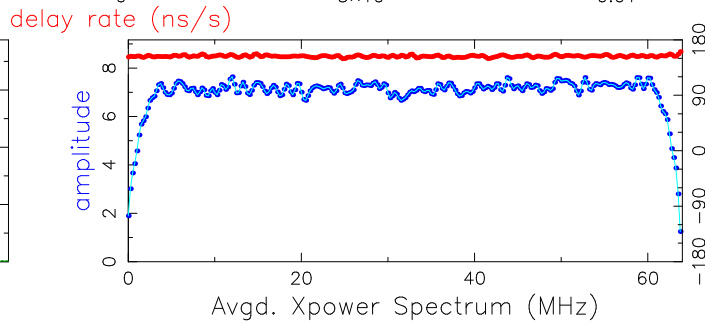
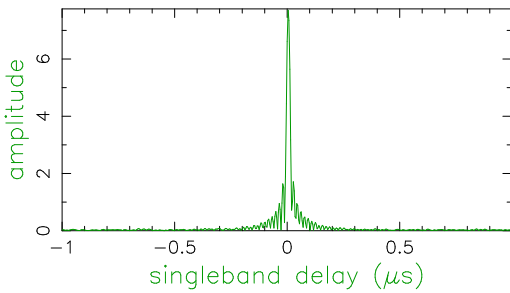
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	786/0	786/0	786/0	786/0	786/0	786/0	786/0	786/0		
N	0	0	0	0	0	0	0	0		
Y	0	0	0	0	0	0	0	0		
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	2.10625062294E+03									
Sband delay (usec)	2.10624738458E+03									
Phase delay (usec)	2.10625860482E+03									
Delay rate (us/s)	-1.06708743608E-01									
Total phase (deg)			78.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

N: az 71.3 el 45.9 pa -64.6 Y: az 64.0 el 38.3 pa -66.4 u,v (fr/asec) 805.906 -156.437 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/NY..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/NY.W.81.2JI9WG



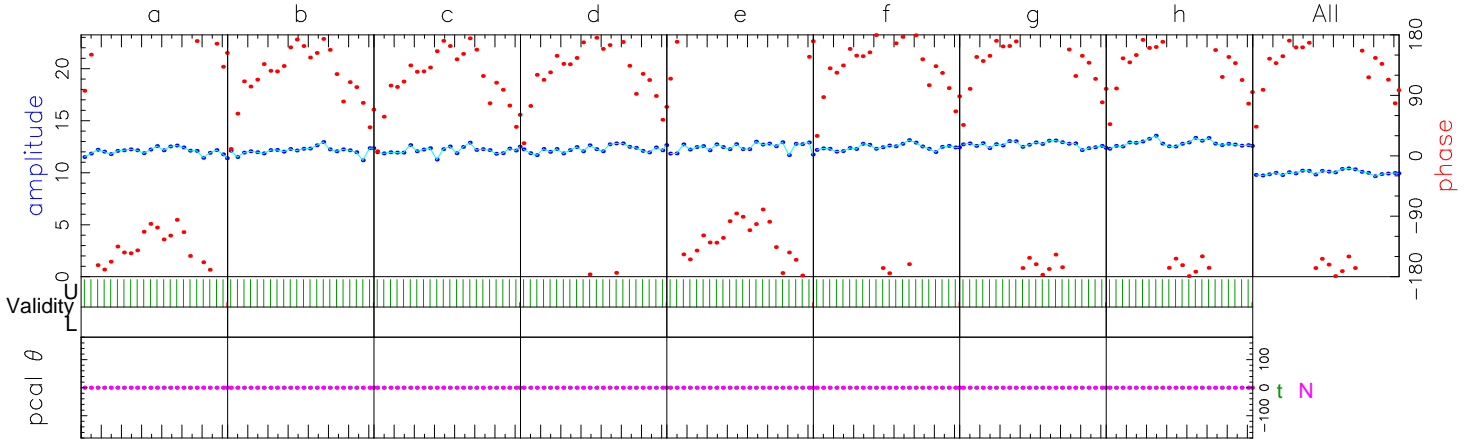
Fringe quality 3

SNR 434.3
Int time 419.825
Amp 7.751
Phase 155.6
PFD 0.0e+00
Delays (us)
SBD 0.004898
MBD 0.004707
Fringe rate (Hz)
-0.001621
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143653
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

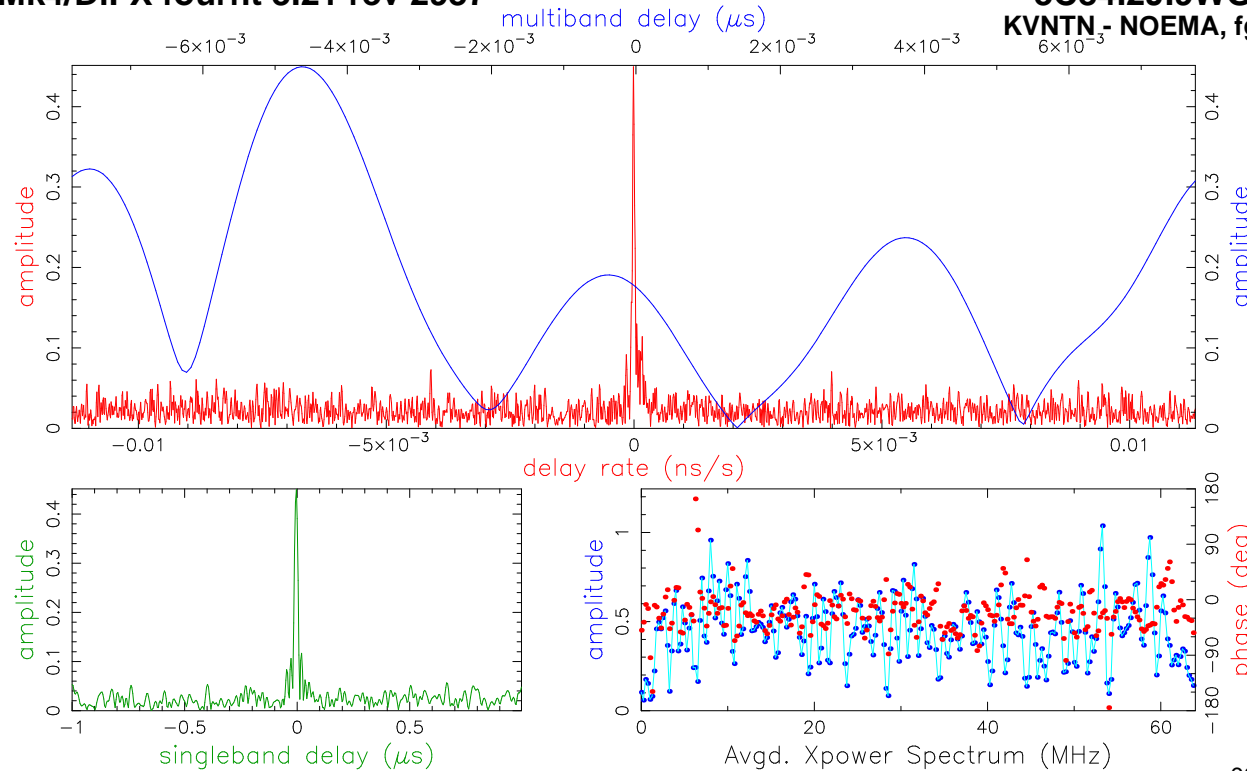


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-150.5	120.8	118.3	131.8	-135.3	142.7	157.1	156.0	Phase	155.6
	9.3	9.3	9.3	9.4	9.6	9.6	9.8	10.0	Ampl.	9.5
	258.1	258.3	258.3	258.3	258.3	258.4	258.3	258.2	Sbd box	258.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -9.73361919879E+02 Apriori delay (usec) -9.73366626454E+02 Resid mbdelay (usec) 4.70657E-03 +/- 2.5E-06
 Sband delay (usec) -9.73361728704E+02 Apriori clock (usec) 1.4861973E+01 Resid sbdelay (usec) 4.89775E-03 +/- 2.0E-05
 Phase delay (usec) -9.73366621436E+02 Apriori clockrate (us/s) 2.2449000E-07 Resid phdelay (usec) 5.01790E-06 +/- 8.5E-09
 Delay rate (us/s) -1.56096819379E+00 Apriori rate (us/s) -1.56096817497E+00 Resid rate (us/s) -1.88207E-08 +/- 3.5E-11
 Total phase (deg) 82.6 Apriori accel (us/s/s) -6.27560653667E-06 Resid phase (deg) 155.6 +/- 0.3

RMS Theor. Amplitude 7.751 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 42.0 0.6 Search (2048X32) 7.451 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 29.2 1.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 42.8 0.4 Inc. seg. avg. 10.008 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 23.2 0.7 Inc. frq. avg. 9.530 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 298.2 el 43.4 pa 80.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11945.710 -1554.157 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/tN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/tN.W.21.2J19WG

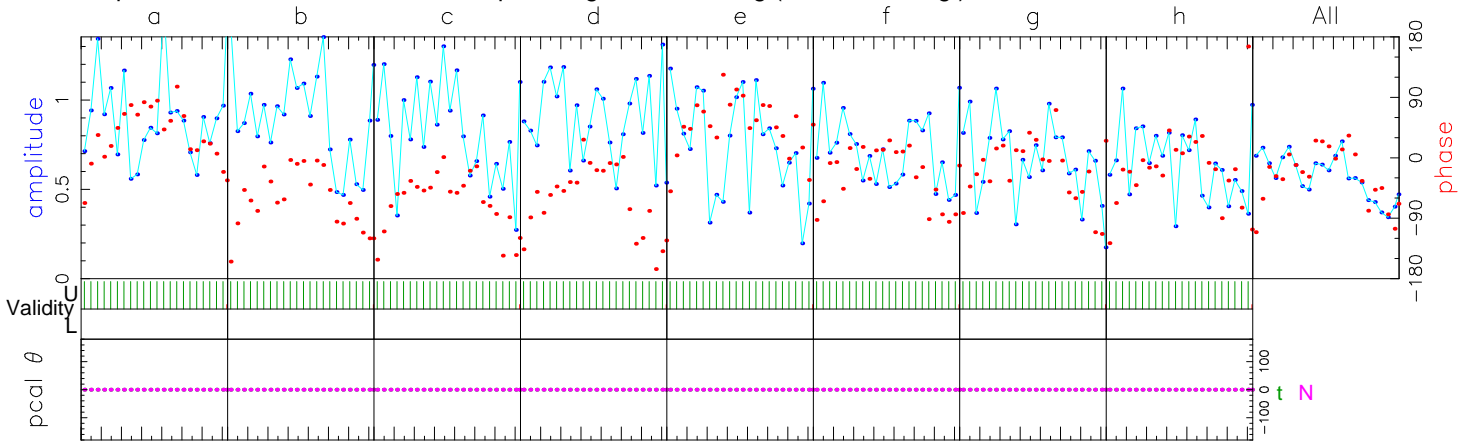


Fringe quality 7

SNR 25.3
Int time 419.825
Amp 0.451
Phase -20.1
PFD 0.0e+00
Delays (us)
SBD -0.004669
MBD -0.004621
Fringe rate (Hz)
-0.001342
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

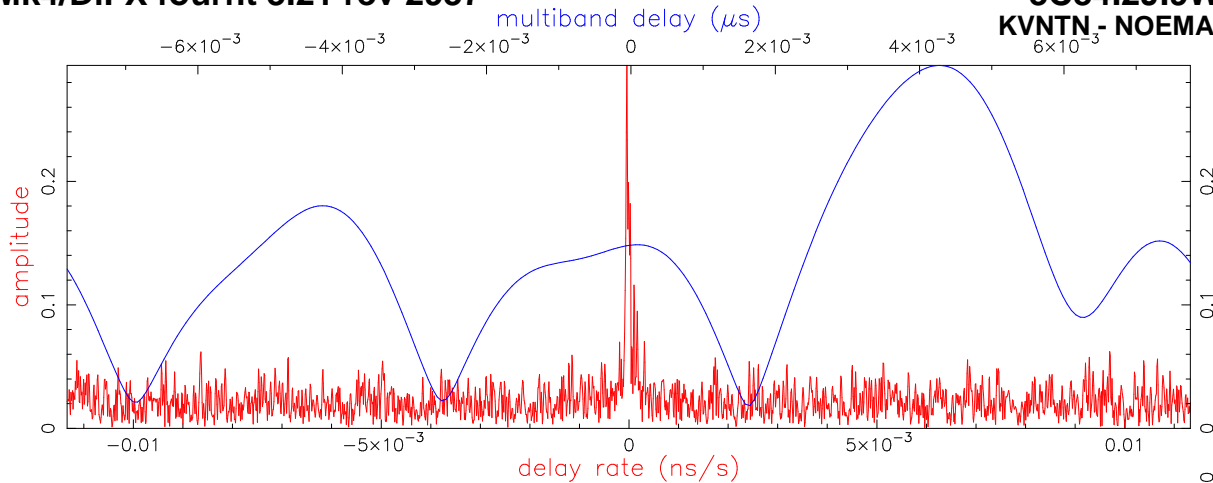
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143657
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



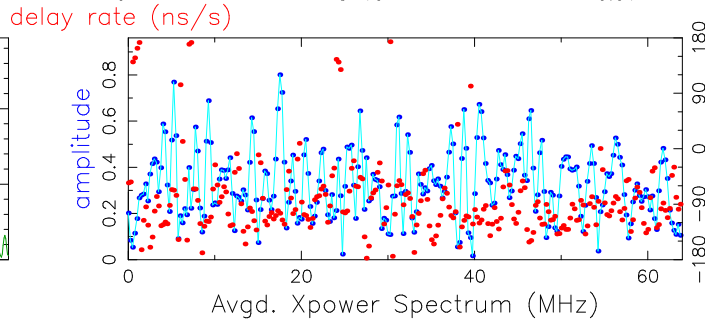
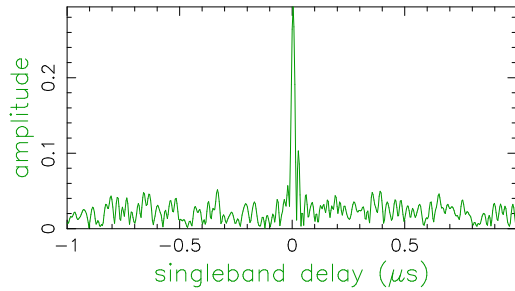
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	36.6	-53.0	-57.2	-60.6	53.4	-26.0	-16.3	-16.2	Phase	-20.1
	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	Ampl.	0.6
	255.8	255.4	255.9	256.0	255.7	256.2	255.5	256.2	Sbd box	255.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	-9.73371247807E+02		Apriori delay (usec)		-9.73366626454E+02		Resid mbdelay (usec)		-4.62135E-03	+/- 4.3E-05
Sband delay (usec)	-9.73371295204E+02		Apriori clock (usec)		1.4861973E+01		Resid sbdelay (usec)		-4.66875E-03	+/- 3.4E-04
Phase delay (usec)	-9.73366627102E+02		Apriori clockrate (us/s)		2.2449000E-07		Resid phdelay (usec)		-6.48209E-07	+/- 1.5E-07
Delay rate (us/s)	-1.56096819054E+00		Apriori rate (us/s)		-1.56096817497E+00		Resid rate (us/s)		-1.55769E-08	+/- 6.0E-10
Total phase (deg)			Apriori accel (us/s/s)		-6.27560653667E-06		Resid phase (deg)		-20.1	+/- 4.5

ph/seg (deg) 41.4 10.9 Search (2048X32) 0.428 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 38.6 19.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.2 6.4 Inc. seg. avg. 0.567 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.8 11.2 Inc. frq. avg. 0.585 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 298.2 el 43.4 pa 80.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11945.710 -1554.157 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/tN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/tN.W.40.2J19WG



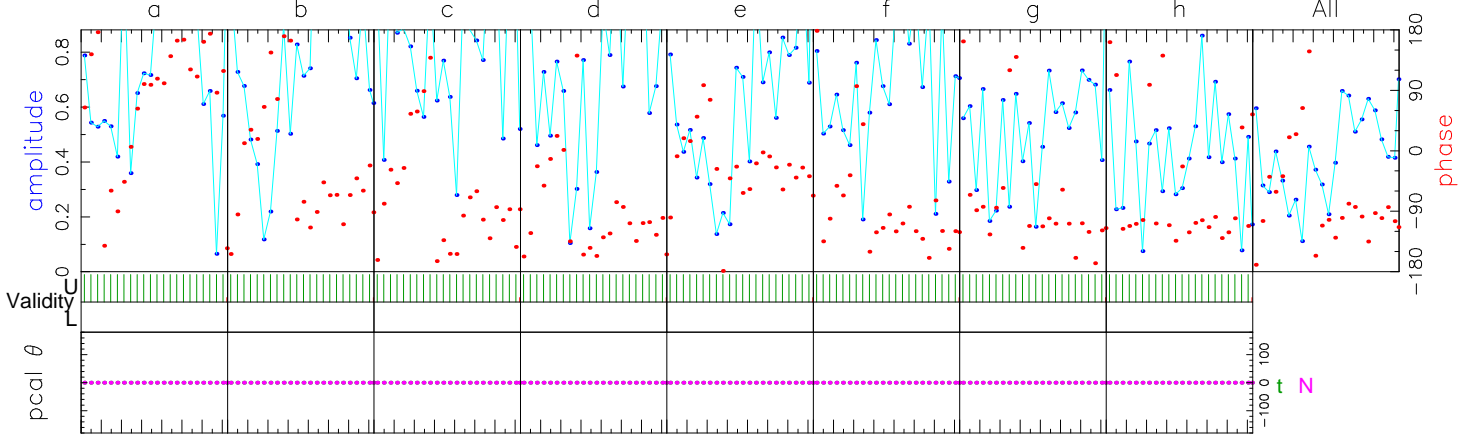
Fringe quality 7

SNR 16.5
Int time 419.815
Amp 0.294
Phase -101.4
PFD 0.0e+00
Delays (us)
SBD 0.004051
MBD 0.004274
Fringe rate (Hz)
-0.004270
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143700
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

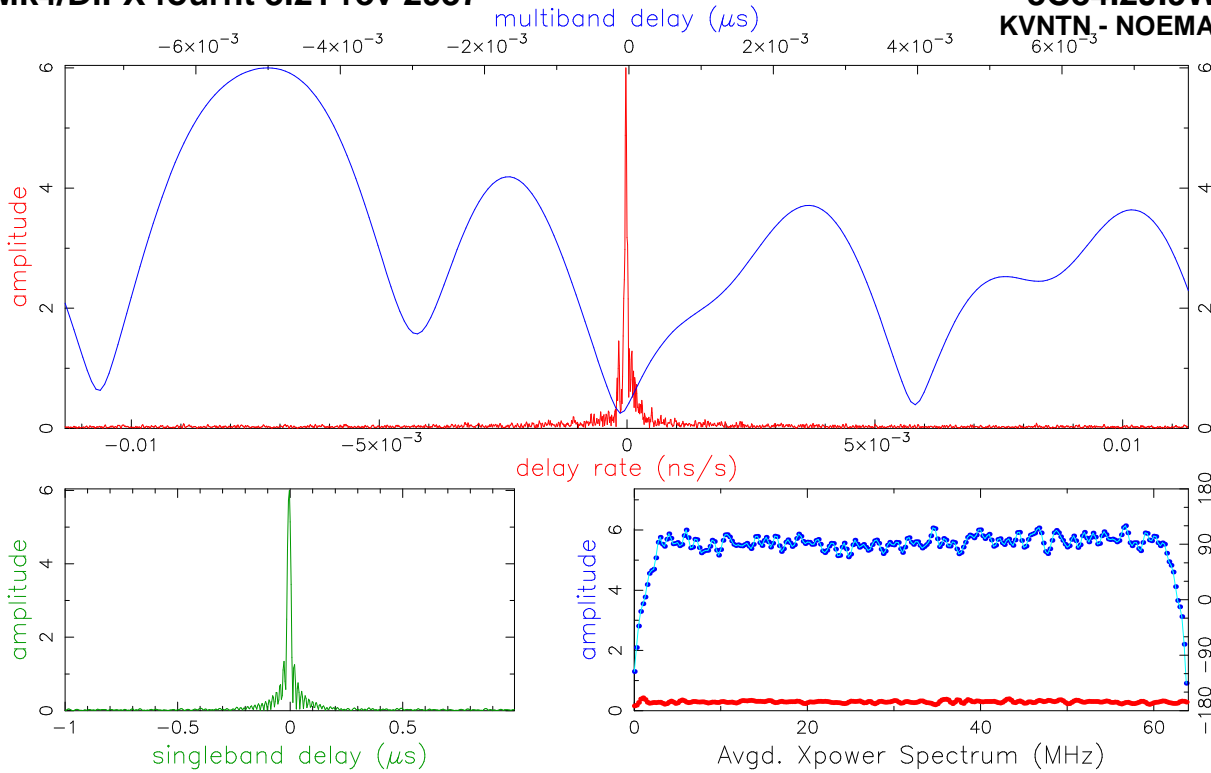


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-9.73362352836E+02	Apriori delay (usec)	-9.73366626454E+02	Resid mbdelay (usec)	4.27362E-03	+/-	6.6E-05
Sband delay (usec)	-9.73362575454E+02	Apriori clock (usec)	1.4861973E+01	Resid sbdelay (usec)	4.05100E-03	+/-	5.2E-04
Phase delay (usec)	-9.73366629724E+02	Apriori clockrate (us/s)	2.2449000E-07	Resid phdelay (usec)	-3.27045E-06	+/-	2.2E-07
Delay rate (us/s)	-1.56096822453E+00	Apriori rate (us/s)	-1.56096817497E+00	Resid rate (us/s)	-4.95671E-08	+/-	9.3E-10
Total phase (deg)	-174.4	Apriori accel (us/s/s)	-6.27560653667E-06	Resid phase (deg)	-101.4	+/-	7.0

ph/seg (deg)	64.0	Theor.	16.7	Amplitude	0.294 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	67.3	Search (2048X32)	0.279	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	Inc. seg. avg.	0.403	Inc. frq. avg.	0.422	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	51.5	Inc. frq. avg.	0.422			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

t: az 298.2 el 43.4 pa 80.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11945.710 -1554.157 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/tN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/tN.W.69.2J19WG

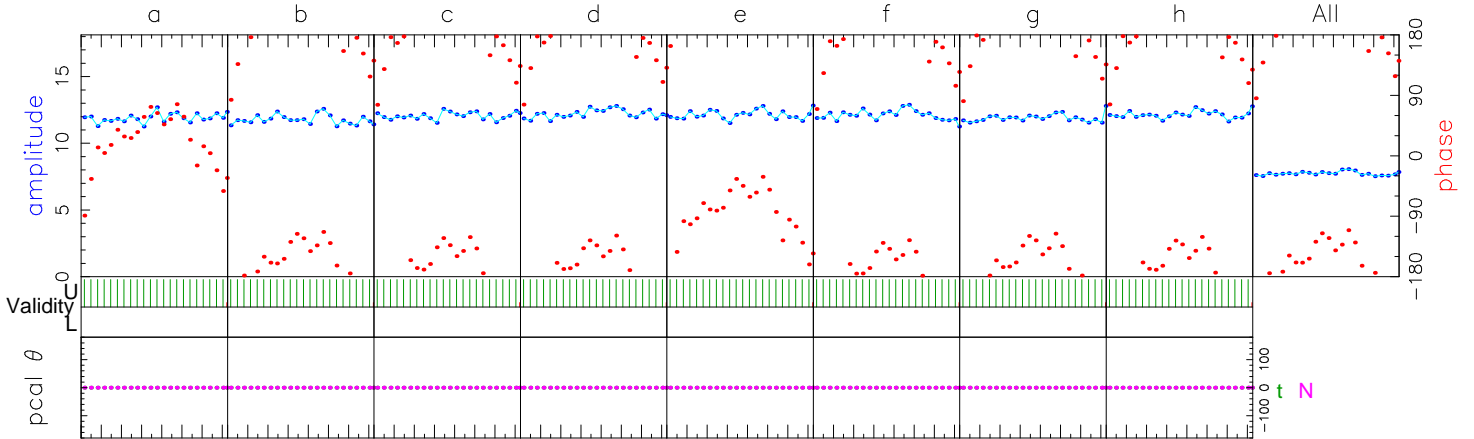


Fringe quality 2

SNR 338.6
Int time 419.815
Amp 6.043
Phase -164.9
PFD 0.0e+00
Delays (us)
SBD -0.004938
MBD -0.005016
Fringe rate (Hz)
-0.001625
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143650
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-9.73371642629E+02									
Sband delay (usec)	-9.73371564704E+02									
Phase delay (usec)	-9.73366631771E+02									
Delay rate (us/s)	-1.56096819383E+00									
Total phase (deg)			-237.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
ion window (TEC)										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

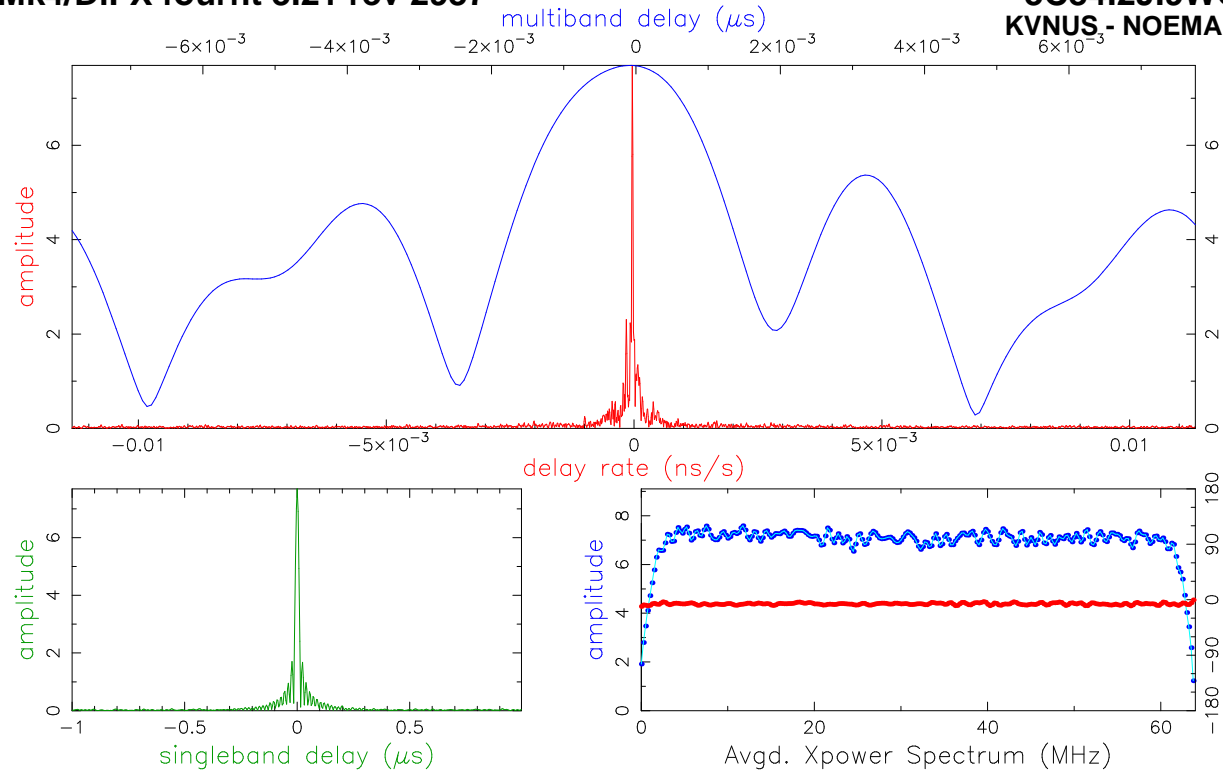
ph/seg (deg) 41.3 0.8
amp/seg (%) 28.1 1.4
ph/frq (deg) 78.1 0.5
amp/frq (%) 54.3 0.8

RMS Theor. Amplitude 6.043 +/- 0.018
Search (2048X32) 5.874
Inc. seg. avg. 7.735
Inc. frq. avg. 9.323

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

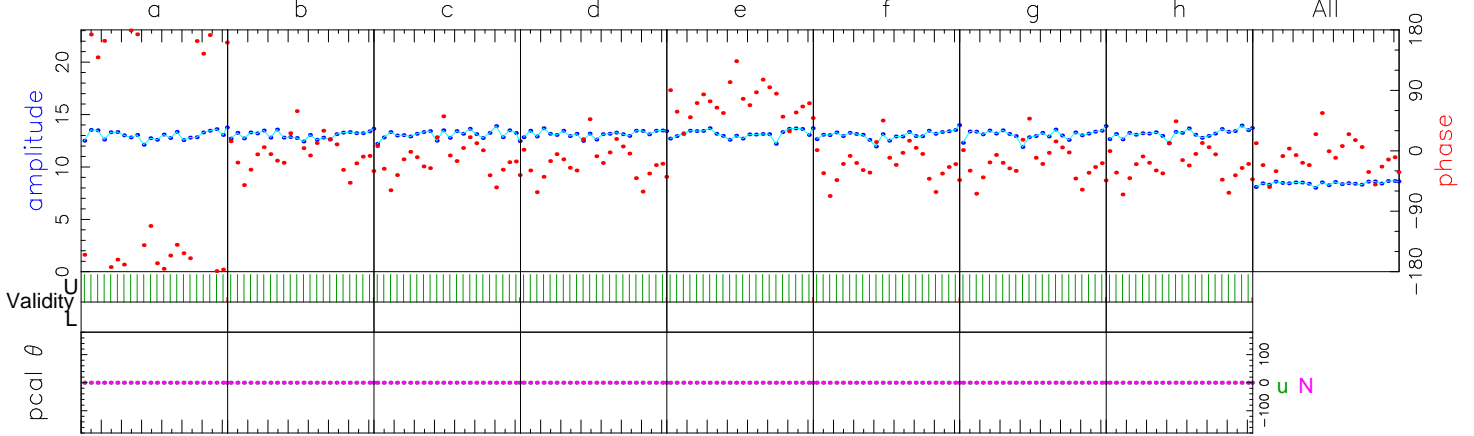
t: az 298.2 el 43.4 pa 80.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11945.710 -1554.157 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/tN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/tN.W.8.2J19WG



Fringe quality 3
 SNR 431.1
 Int time 419.815
 Amp 7.695
 Phase -7.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.000141
 MBD -0.000081
 Fringe rate (Hz)
 -0.003146
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2023:009:135153
 2023:010:143637
 2021:252:122852
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-173.0	-4.4	-12.2	-15.9	71.9	-18.4	-17.0	-19.2	Phase	-7.4
	11.9	11.9	11.9	12.0	12.0	11.8	11.9	12.0	Ampl.	11.9
	256.8	256.8	257.0	256.9	257.0	257.0	257.0	256.9	Sbd box	257.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
u:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

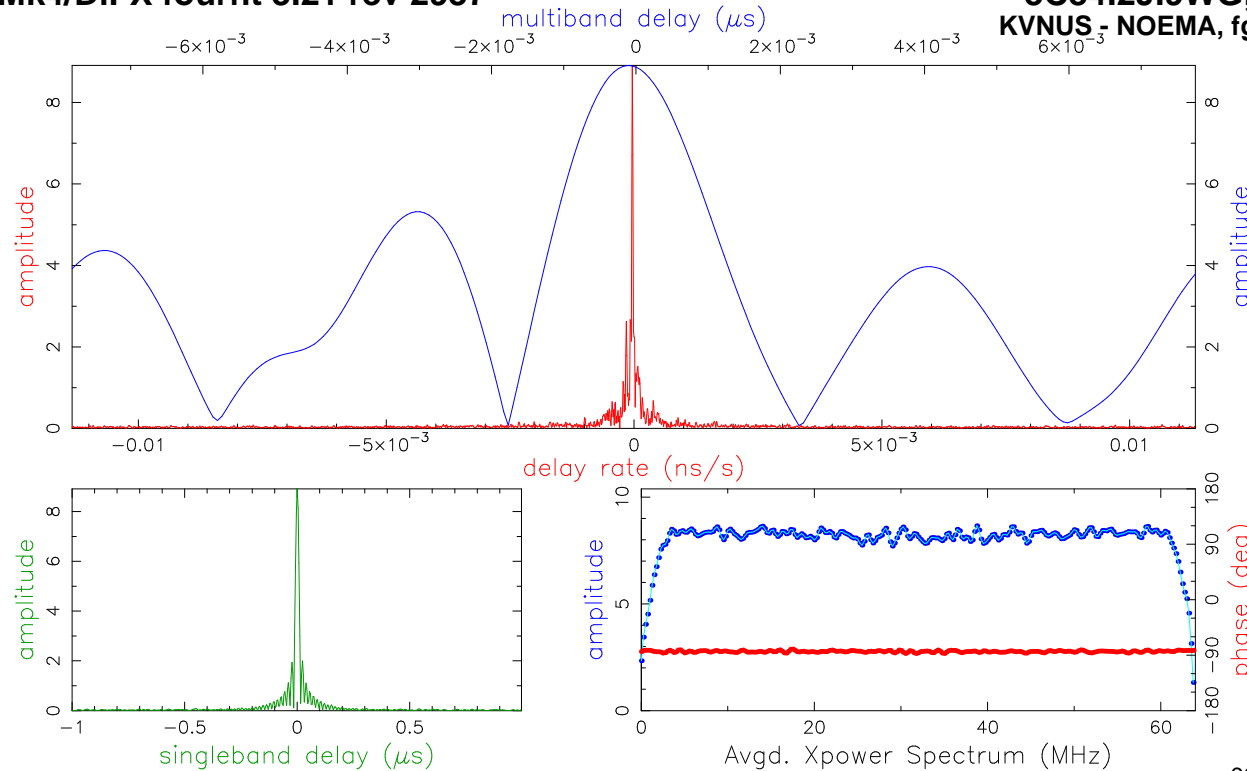
Group delay (usec)(sbd)	-1.21006338780E+03	Apriori delay (usec)	-1.21006330718E+03	Resid mbdelay (usec)	-8.06226E-05	+/-	2.5E-06
Sband delay (usec)	-1.21006344818E+03	Apriori clock (usec)	5.2150513E+01	Resid sbdelay (usec)	-1.41000E-04	+/-	2.0E-05
Phase delay (usec)	-1.21006330742E+03	Apriori clockrate (us/s)	2.5031002E-06	Resid phdelay (usec)	-2.38166E-07	+/-	8.6E-09
Delay rate (us/s)	-1.56092481764E+00	Apriori rate (us/s)	-1.56092478112E+00	Resid rate (us/s)	-3.65169E-08	+/-	3.5E-11
Total phase (deg)	-108.4	Apriori accel (us/s/s)	-2.38915724948E-06	Resid phase (deg)	-7.4	+/-	0.3

ph/seg (deg)	24.7	RMS	24.7	Theor.	0.6	Amplitude	7.695 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	9.9		9.9		1.1	Search (2048X32)	7.495	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	75.5		75.5		0.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	55.2		55.2		0.7	Inc. seg. avg.	8.438	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	11.943	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

u: az 296.9 el 42.4 pa 75.6 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11950.598 -1068.247 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/uN..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/uN.W.13.2JI9WG

Mk4/DiFX fourfit 3.21 rev 2937

3C84.2JI9WG, No0149, uN
KVNU5 - NOEMA, fgroup W, pol RR

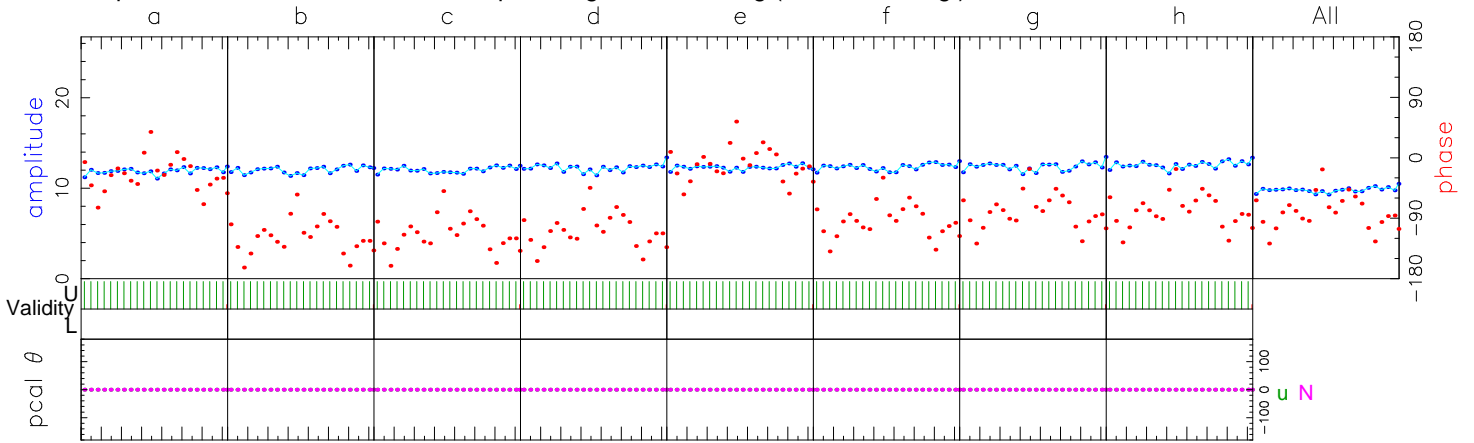


Fringe quality 4

SNR 499.4
Int time 419.825
Amp 8.912
Phase -80.8
PFD 0.0e+00
Delays (us)
SBD 0.000176
MBD -0.000101
Fringe rate (Hz)
-0.003145
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Yr:day 16383
Start 2022:094
Stop 2022:094
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143641
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

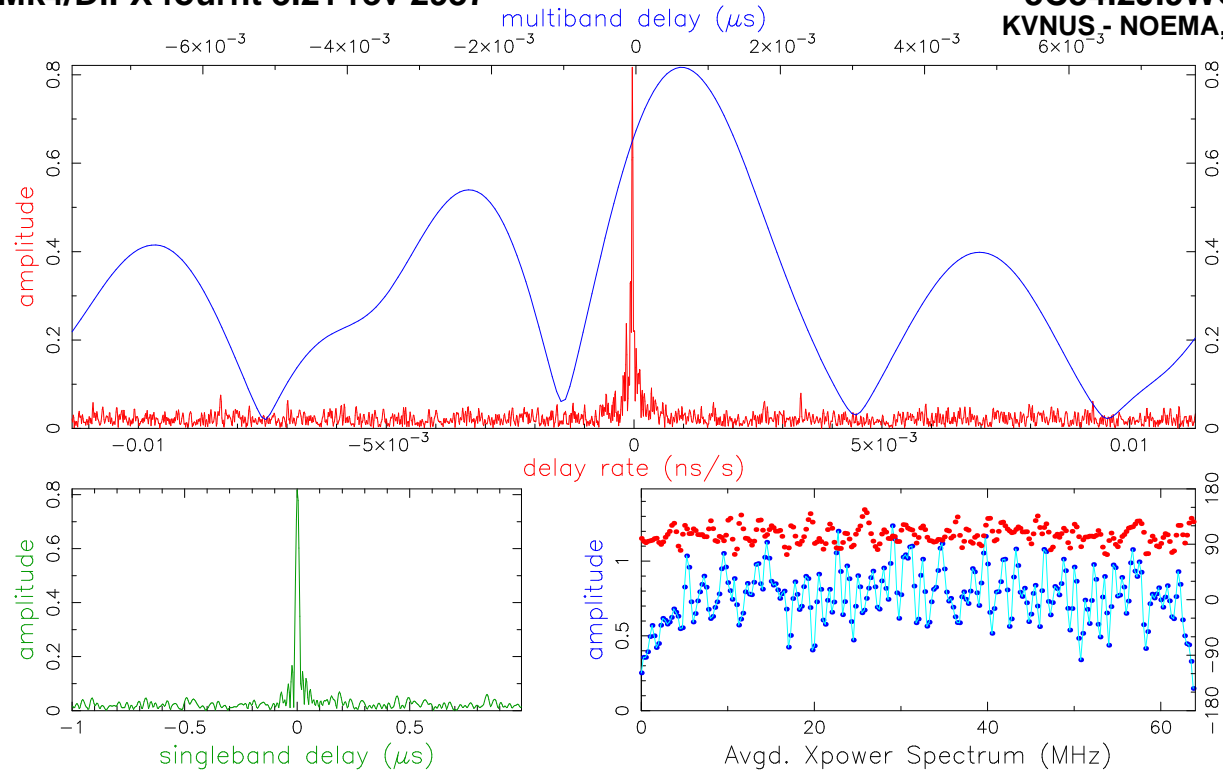
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-25.2	-117.2	-113.4	-108.1	-9.5	-93.9	-79.8	-78.7	Phase	-80.8
	10.8	11.0	11.0	11.2	11.2	11.2	11.3	11.4	Ampl.	11.1
	256.9	257.0	257.1	257.0	257.1	257.1	257.0	257.0	Sbd box	257.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
u:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
u	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)	-1.21006340827E+03		Apriori delay (usec)		-1.21006330718E+03		Resid mbdelay (usec)		-1.01091E-04	+/- 2.2E-06
Sband delay (usec)	-1.21006313118E+03		Apriori clock (usec)		5.2150513E+01		Resid sbdelay (usec)		1.76000E-04	+/- 1.7E-05
Phase delay (usec)	-1.21006330979E+03		Apriori clockrate (us/s)		2.5031002E-06		Resid phdelay (usec)		-2.60409E-06	+/- 7.4E-09
Delay rate (us/s)	-1.56092481764E+00		Apriori rate (us/s)		-1.56092478112E+00		Resid rate (us/s)		-3.65134E-08	+/- 3.1E-11
Total phase (deg)			Apriori accel (us/s/s)		-2.38915724948E-06		Resid phase (deg)		-80.8	+/- 0.2

RMS Theor. Amplitude 8.912 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 24.9 0.6 Search (2048X32) 8.653 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 10.2 1.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 43.7 0.3 Inc. seg. avg. 9.793 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 24.9 0.6 Inc. frq. avg. 11.126 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

u: az 296.9 el 42.4 pa 75.6 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11950.598 -1068.247 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/uN..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/uN.W.27.2JI9WG

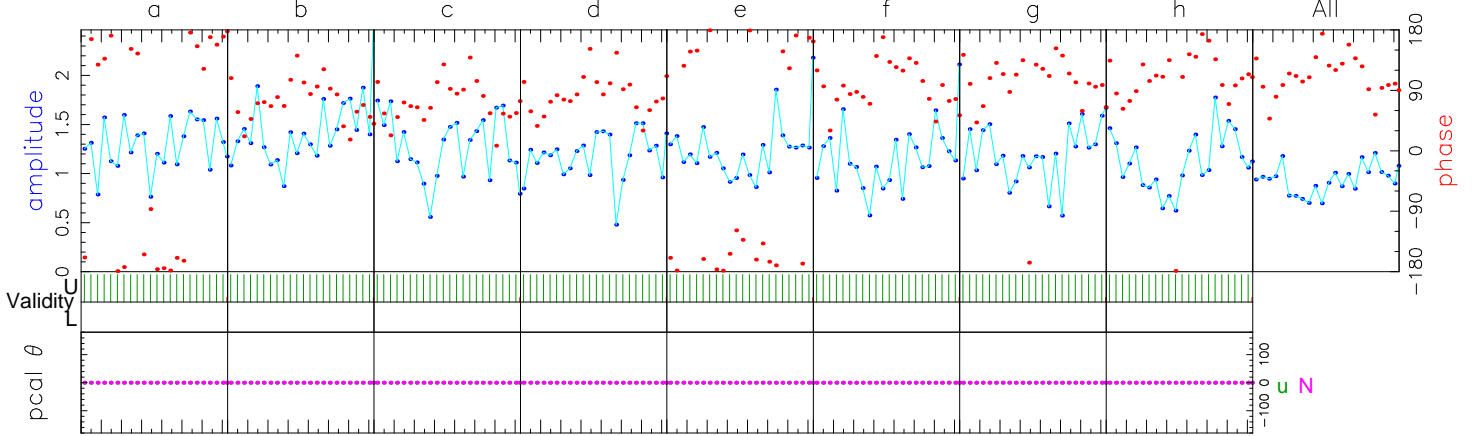


Fringe quality 5

SNR 46.0
Int time 419.825
Amp 0.821
Phase 109.4
PFD 0.0e+00
Delays (us)
SBD 0.000937
MBD 0.000637
Fringe rate (Hz)
-0.003111
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143644
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

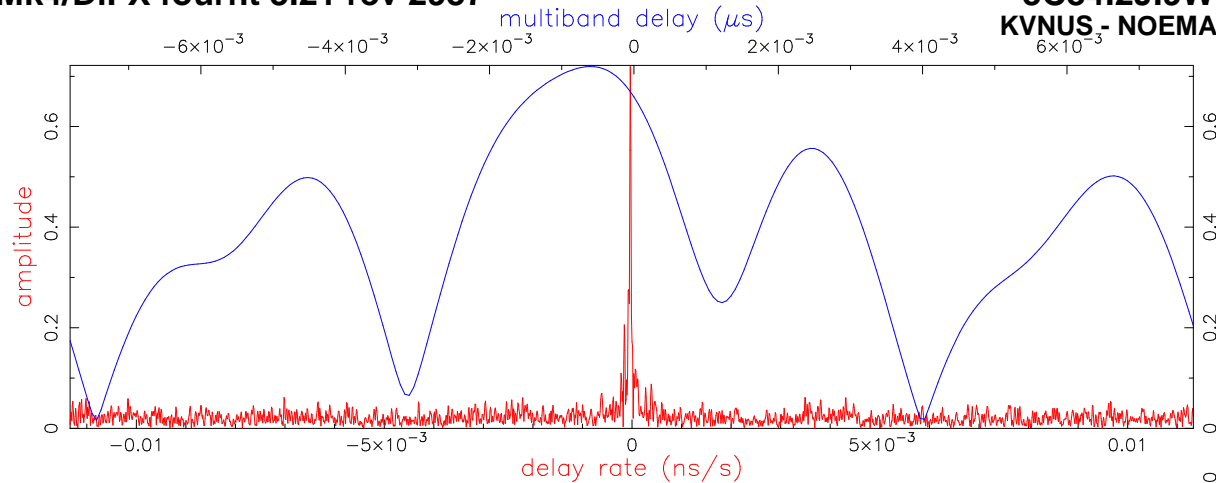


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	171.9	72.8	72.1	80.0	-178.3	96.6	108.5	114.5	Phase	109.4
	1.2	1.2	1.1	1.0	1.1	1.0	1.0	1.0	Ampl.	1.1
	257.1	257.1	257.3	257.4	257.1	257.4	257.3	257.3	Sbd box	257.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
u:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	

Group delay (usec)(sbd) -1.21006267040E+03 Apriori delay (usec) -1.21006330718E+03 Resid mbdelay (usec) 6.36784E-04 +/- 2.4E-05
 Sband delay (usec) -1.21006237018E+03 Apriori clock (usec) 5.2150513E+01 Resid sbdelay (usec) 9.37000E-04 +/- 1.9E-04
 Phase delay (usec) -1.21006330365E+03 Apriori clockrate (us/s) 2.5031002E-06 Resid phdelay (usec) 3.52765E-06 +/- 8.0E-08
 Delay rate (us/s) -1.56092481723E+00 Apriori rate (us/s) -1.56092478112E+00 Resid rate (us/s) -3.61109E-08 +/- 3.3E-10
 Total phase (deg) 8.4 Apriori accel (us/s/s) -2.38915724948E-06 Resid phase (deg) 109.4 +/- 2.5

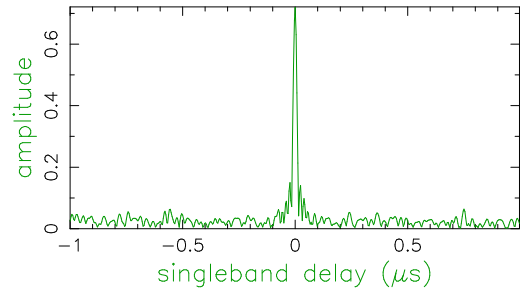
RMS Theor. Amplitude 0.821 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 29.3 6.0 Search (2048X32) 0.793 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 21.7 10.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 46.4 3.5 Inc. seg. avg. 0.927 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 31.3 6.1 Inc. frq. avg. 1.064 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

u: az 296.9 el 42.4 pa 75.6 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11950.598 -1068.247 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/uN..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/uN.W.48.2JI9WG

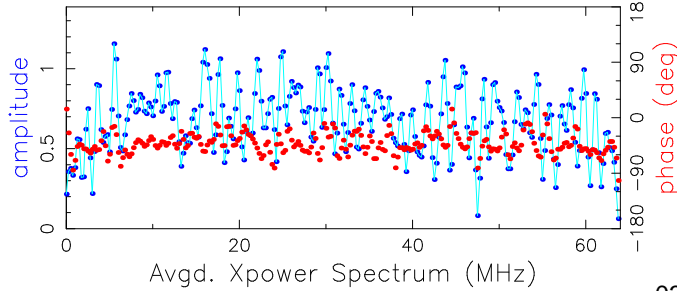


Fringe quality 4

SNR 40.4
Int time 419.815
Amp 0.722
Phase -42.8
PFD 0.0e+00
Delays (us)
SBD -0.000699
MBD -0.000593
Fringe rate (Hz)
-0.003298
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

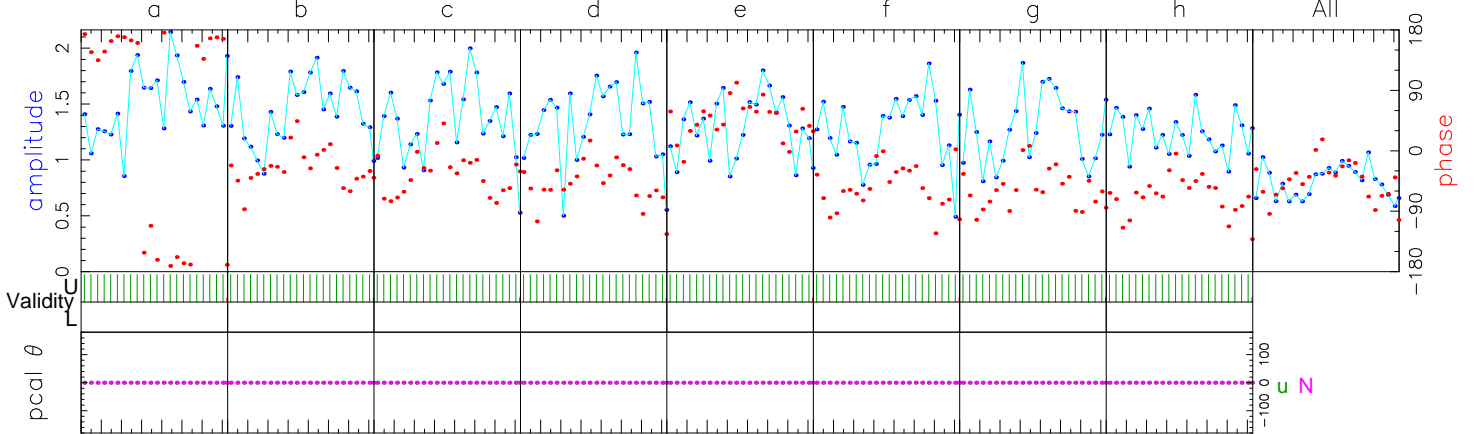


delay rate (ns/s)



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143647
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

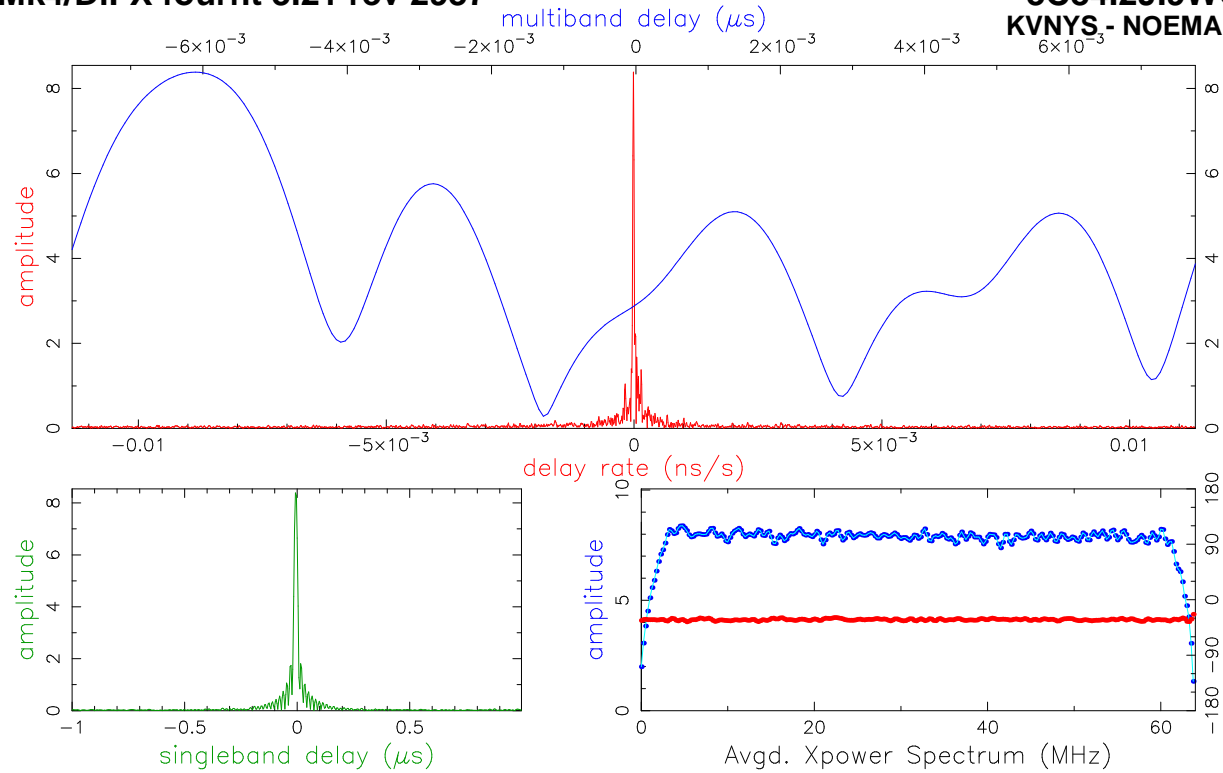
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.21006389984E+03				-1.21006330718E+03					
Sband delay (usec)	-1.21006400568E+03				5.2150513E+01					
Phase delay (usec)	-1.21006330856E+03				2.5031002E-06					
Delay rate (us/s)	-1.56092481941E+00				-1.56092478112E+00					
Total phase (deg)			-143.8		-2.38915724948E-06					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Validity										
u N										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										
amplitude										
phase										

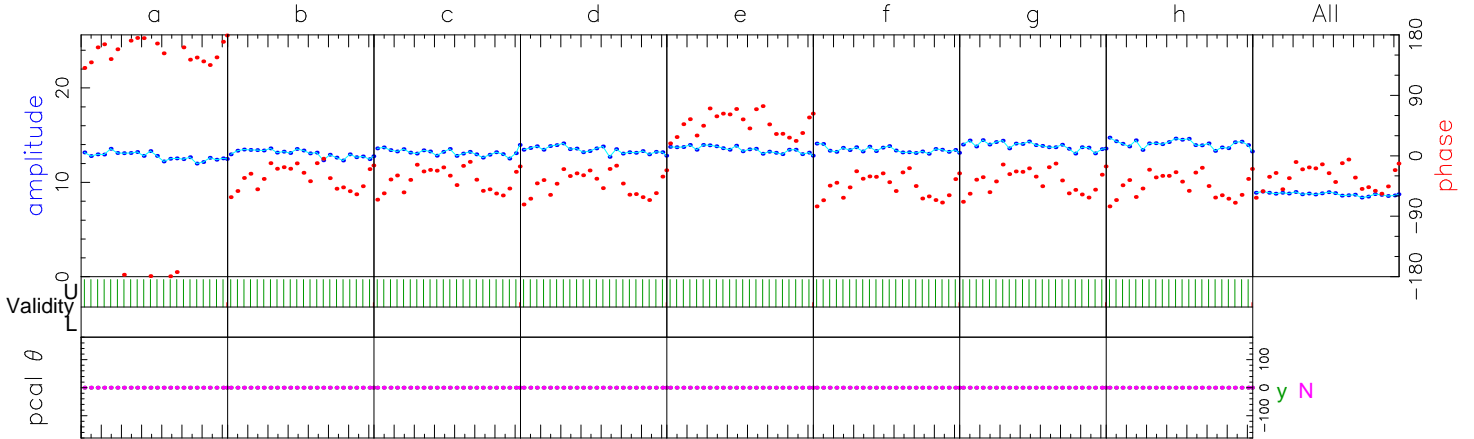
Mk4/DiFX fourfit 3.21 rev 2937

3C84.2J19WG, No0149, yN
KVNYS- NOEMA, fgroup W, pol LL



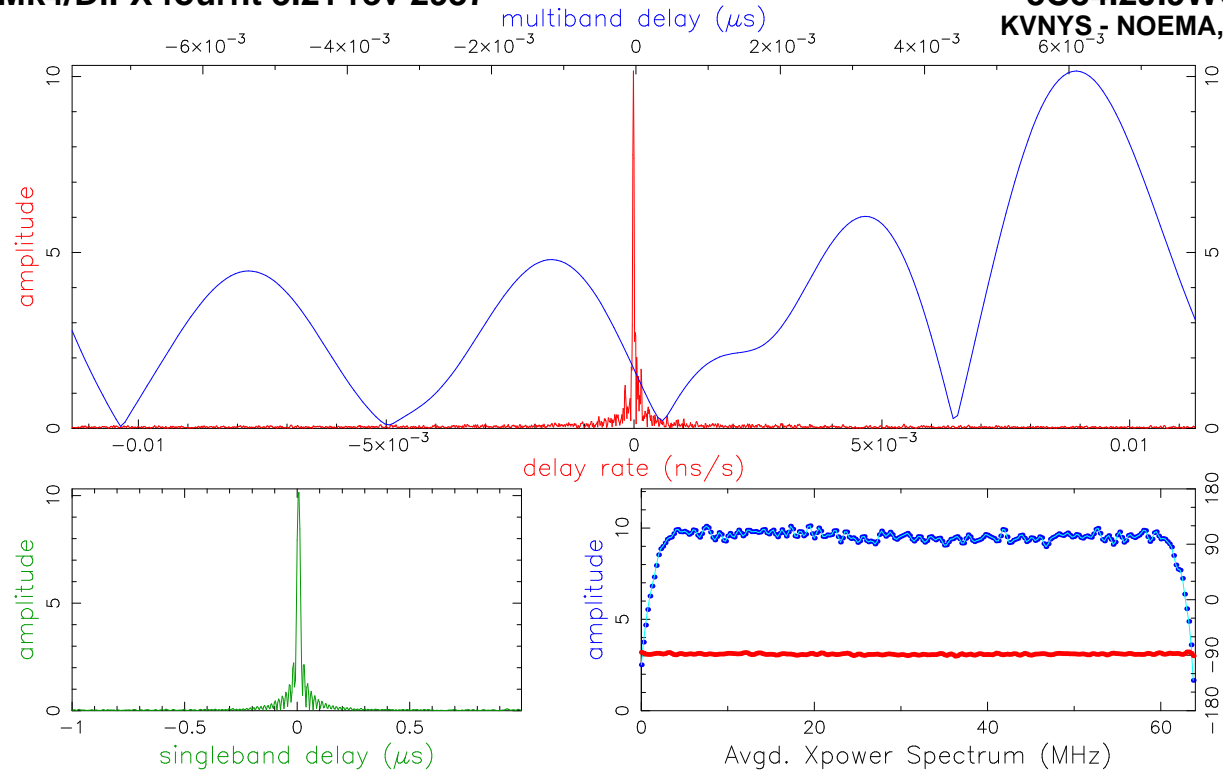
Fringe quality 4
SNR 478.7
Int time 419.815
Amp 8.544
Phase -32.4
PFD 0.0e+00
Delays (us)
SBD -0.006105
MBD -0.006106
Fringe rate (Hz)
-0.001421
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c221d
Yr:day 16383
2023:009:135153
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:010:143638
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	160.0	-32.5	-36.0	-41.9	47.2	-46.0	-37.7	-45.0	Phase	-32.4
	12.2	12.5	12.6	12.9	12.9	12.9	13.3	13.5	Ampl.	12.9
	255.3	255.2	255.5	255.3	255.4	255.5	255.4	255.4	Sbd box	255.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	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)	-5.56513544401E+02		Apriori delay (usec)		-5.56507438235E+02		Resid mbdelay (usec)		-6.10617E-03	+/- 2.3E-06
Sband delay (usec)	-5.56513543485E+02		Apriori clock (usec)		1.4237938E+01		Resid sbdelay (usec)		-6.10525E-03	+/- 1.8E-05
Phase delay (usec)	-5.56507439281E+02		Apriori clockrate (us/s)		9.9630001E-08		Resid phdelay (usec)		-1.04597E-06	+/- 7.7E-09
Delay rate (us/s)	-1.52159889760E+00		Apriori rate (us/s)		-1.52159888110E+00		Resid rate (us/s)		-1.64938E-08	+/- 3.2E-11
Total phase (deg)			Apriori accel (us/s/s)		-3.94671088999E-06		Resid phase (deg)		-32.4	+/- 0.2

ph/seg (deg) 16.8 0.6 Theor. Amplitude 8.544 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 3.1 1.0 Search (2048X32) 7.788 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 76.3 0.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 50.6 0.6 Inc. seg. avg. 8.758 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
y: az 294.5 el 45.0 pa 74.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11646.793 -986.869 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/yN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/yN.W.15.2J19WG

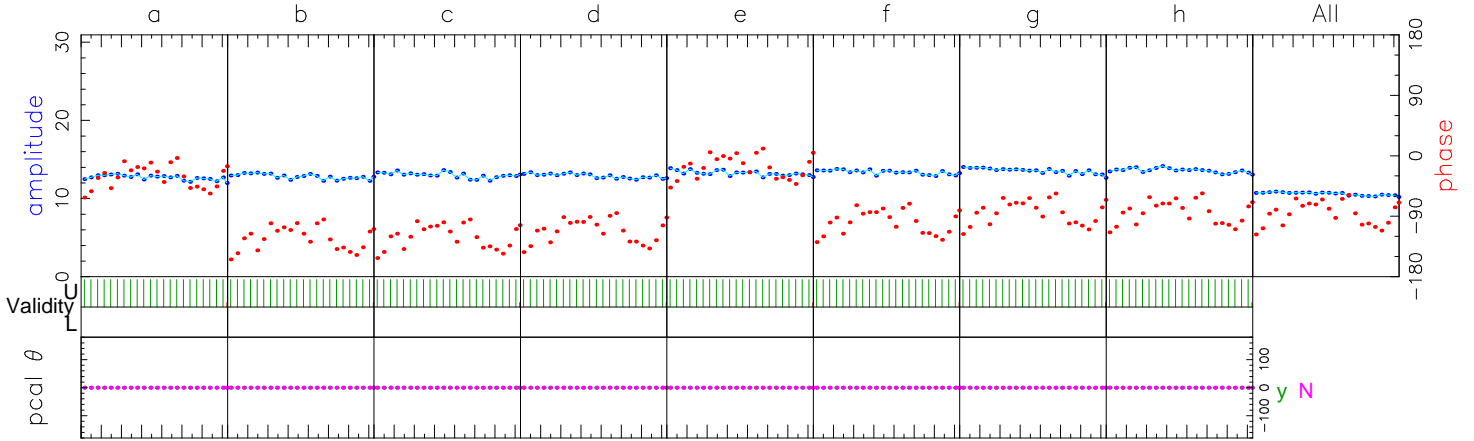


Fringe quality 5

SNR 578.1
Int time 419.825
Amp 10.318
Phase -86.3
PFD 0.0e+00
Delays (us)
SBD 0.006248
MBD 0.006094
Fringe rate (Hz)
-0.001415
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143641
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

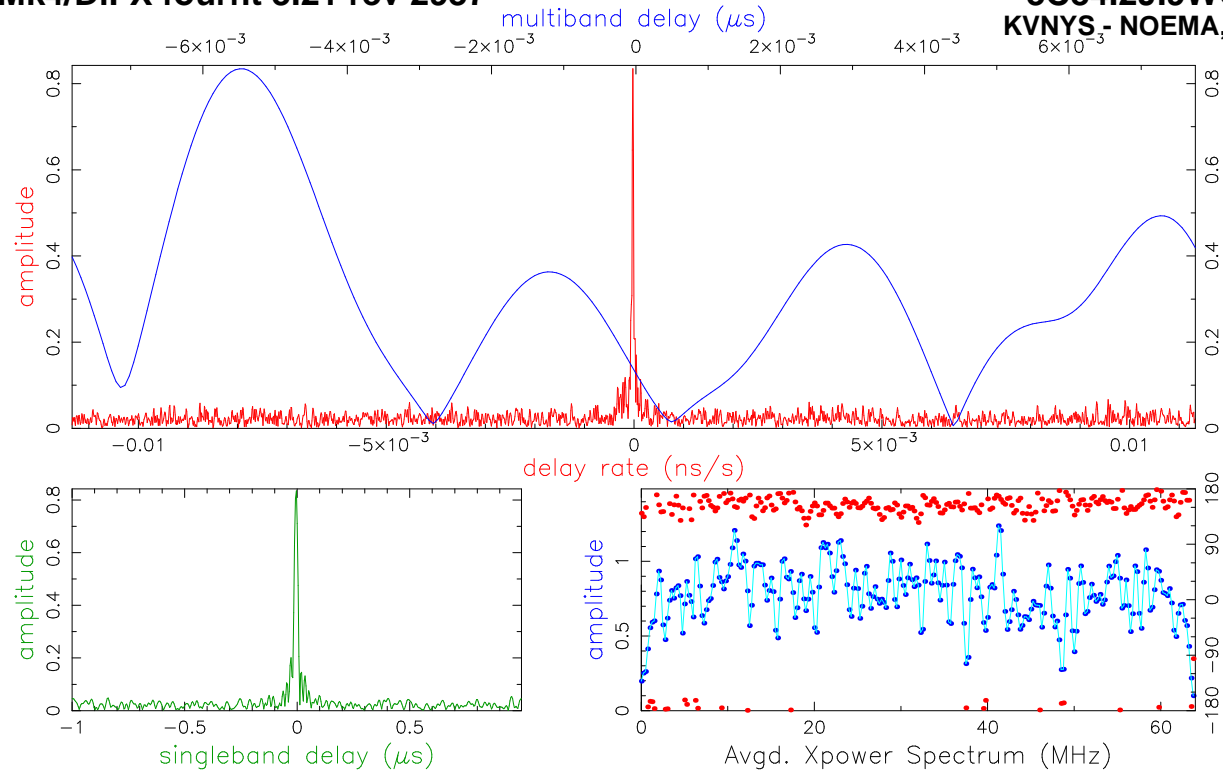


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-31.6	-123.1	-120.7	-112.4	-17.4	-98.9	-84.7	-84.6	Phase	-86.3
	12.2	12.3	12.4	12.3	12.7	12.8	13.0	13.0	Ampl.	12.6
	258.5	258.6	258.7	258.5	258.8	258.7	258.7	258.6	Sbd box	258.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	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)	-5.56501344432E+02		Apriori delay (usec)		-5.56507438235E+02		Resid mbdelay (usec)		6.09380E-03	+/- 1.9E-06
Sband delay (usec)	-5.56501189985E+02		Apriori clock (usec)		1.4237938E+01		Resid sbdelay (usec)		6.24825E-03	+/- 1.5E-05
Phase delay (usec)	-5.56507441019E+02		Apriori clockrate (us/s)		9.9630001E-08		Resid phdelay (usec)		-2.78412E-06	+/- 6.4E-09
Delay rate (us/s)	-1.52159889753E+00		Apriori rate (us/s)		-1.52159888110E+00		Resid rate (us/s)		-1.64272E-08	+/- 2.6E-11
Total phase (deg)			Apriori accel (us/s/s)		-3.94671088999E-06		Resid phase (deg)		-86.3	+/- 0.2

ph/seg (deg) 17.1 0.5 Theor. Amplitude 10.318 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 3.4 0.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.1 0.3 Inc. seg. avg. 10.621 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.3 0.5 Inc. frq. avg. 12.592 Data rate (Mbit/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 294.5 el 45.0 pa 74.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11646.793 -986.869 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/yN..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/yN.W.29.2JI9WG

Mk4/DiFX fourfit 3.21 rev 2937

3C84.2JI9WG, No0149, yN
KVNYs- NOEMA, fgroup W, pol LR

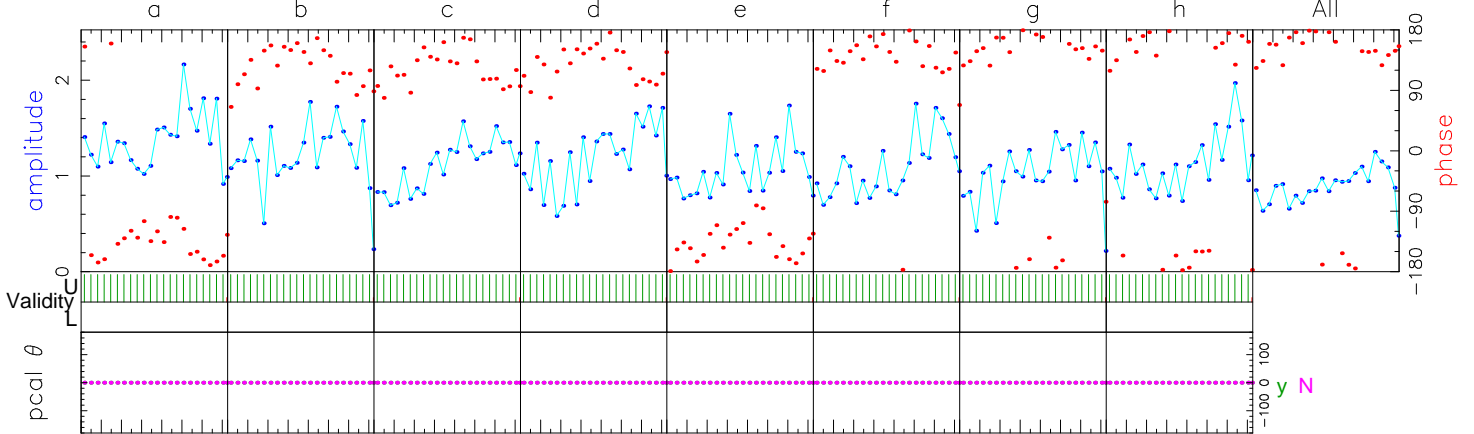


Fringe quality 6

SNR 47.2
Int time 419.825
Amp 0.842
Phase 160.3
PFD 0.0e+00
Delays (us)
SBD -0.005121
MBD -0.005466
Fringe rate (Hz)
-0.001618
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Yr:day 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143644
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-143.5	125.7	123.4	126.7	-136.9	143.5	164.3	170.1	Phase	160.3
	1.2	1.1	1.0	1.1	1.0	1.0	0.9	1.0	Ampl.	1.0
	255.6	255.6	255.8	255.5	255.8	255.9	255.8	255.5	Sbd box	255.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-5.56512904567E+02	Apriori delay (usec)	-5.56507438235E+02	Resid mbdelay (usec)	-5.46633E-03	+/-	2.3E-05
Sband delay (usec)	-5.5651259485E+02	Apriori clock (usec)	1.4237938E+01	Resid sbdelay (usec)	-5.12125E-03	+/-	1.8E-04
Phase delay (usec)	-5.56507433067E+02	Apriori clockrate (us/s)	9.9630001E-08	Resid phdelay (usec)	5.16821E-06	+/-	7.8E-08
Delay rate (us/s)	-1.52159889988E+00	Apriori rate (us/s)	-1.52159888110E+00	Resid rate (us/s)	-1.87782E-08	+/-	3.2E-10
Total phase (deg)	-102.4	Apriori accel (us/s/s)	-3.94671088999E-06	Resid phase (deg)	160.3	+/-	2.4

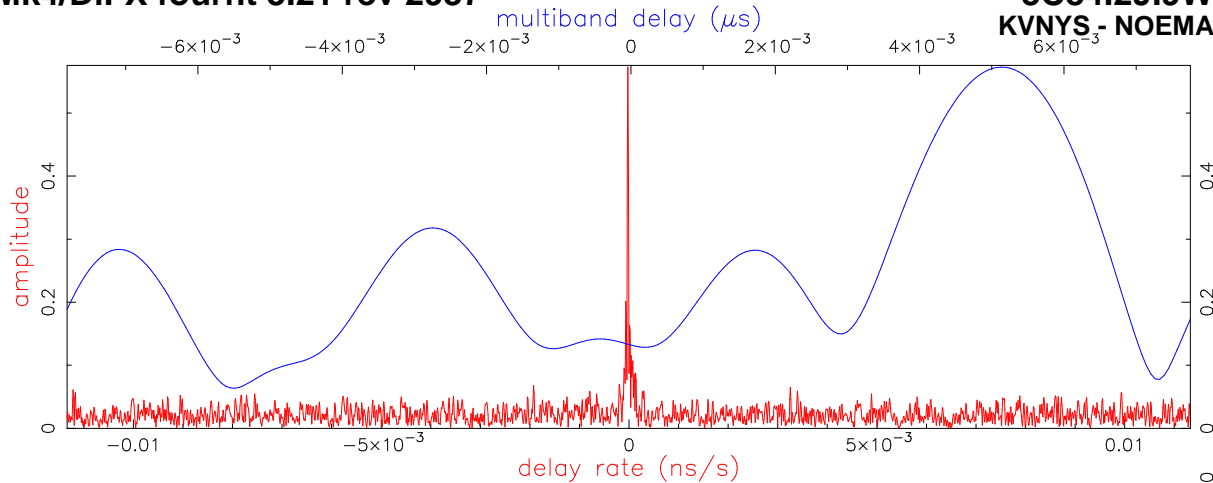
ph/seg (deg)	22.4	Theor.	5.8	Amplitude	0.842 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	20.3		10.2	Search (2048X32)	0.812	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	43.2		3.4	Inc. seg. avg.	0.899	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	26.5		6.0	Inc. frq. avg.	1.047	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

y: az 294.5 el 45.0 pa 74.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11646.793 -986.869 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/yN..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/yN.W.52.2JI9WG

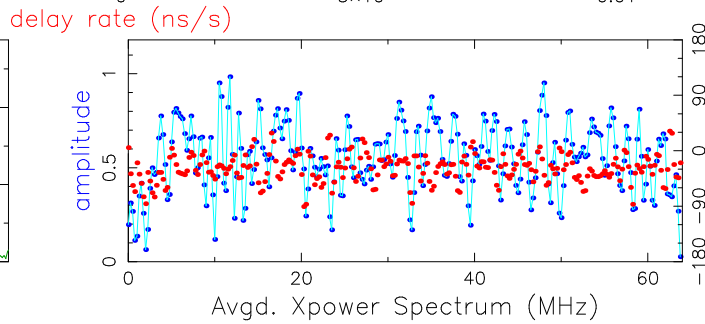
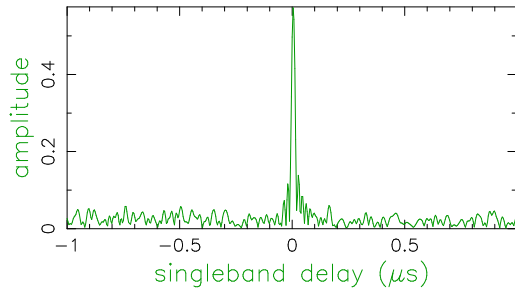
Mk4/DiFX fourfit 3.21 rev 2937

3C84.2JI9WG, No0149, yN
KVNSY- NOEMA, fgroup W, pol RL



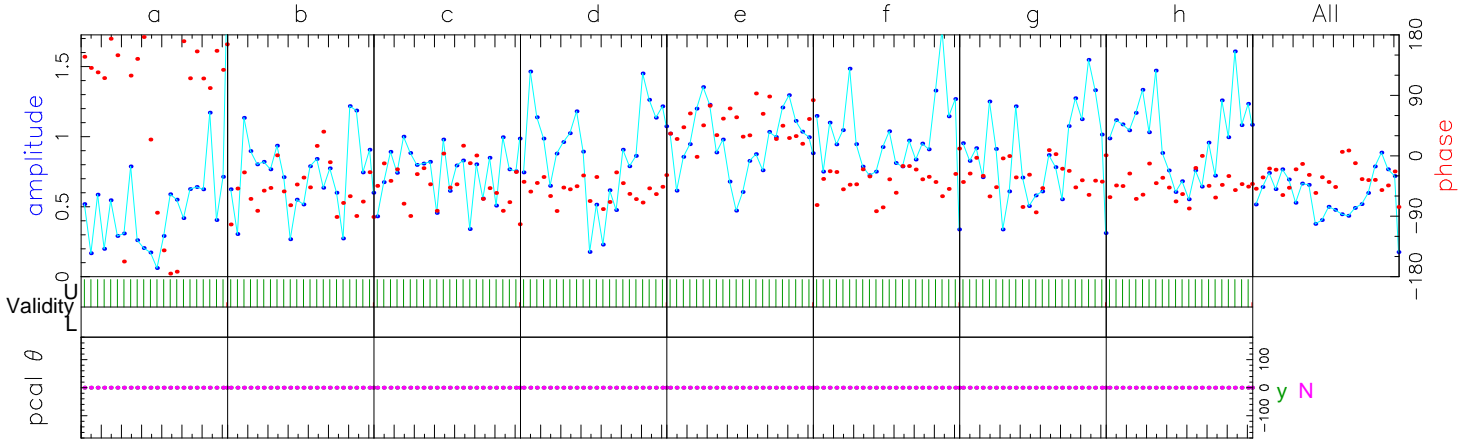
Fringe quality 5

SNR 32.2
Int time 419.815
Amp 0.576
Phase -32.4
PFD 0.0e+00
Delays (us)
SBD 0.004778
MBD 0.005142
Fringe rate (Hz)
-0.001618
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143647
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

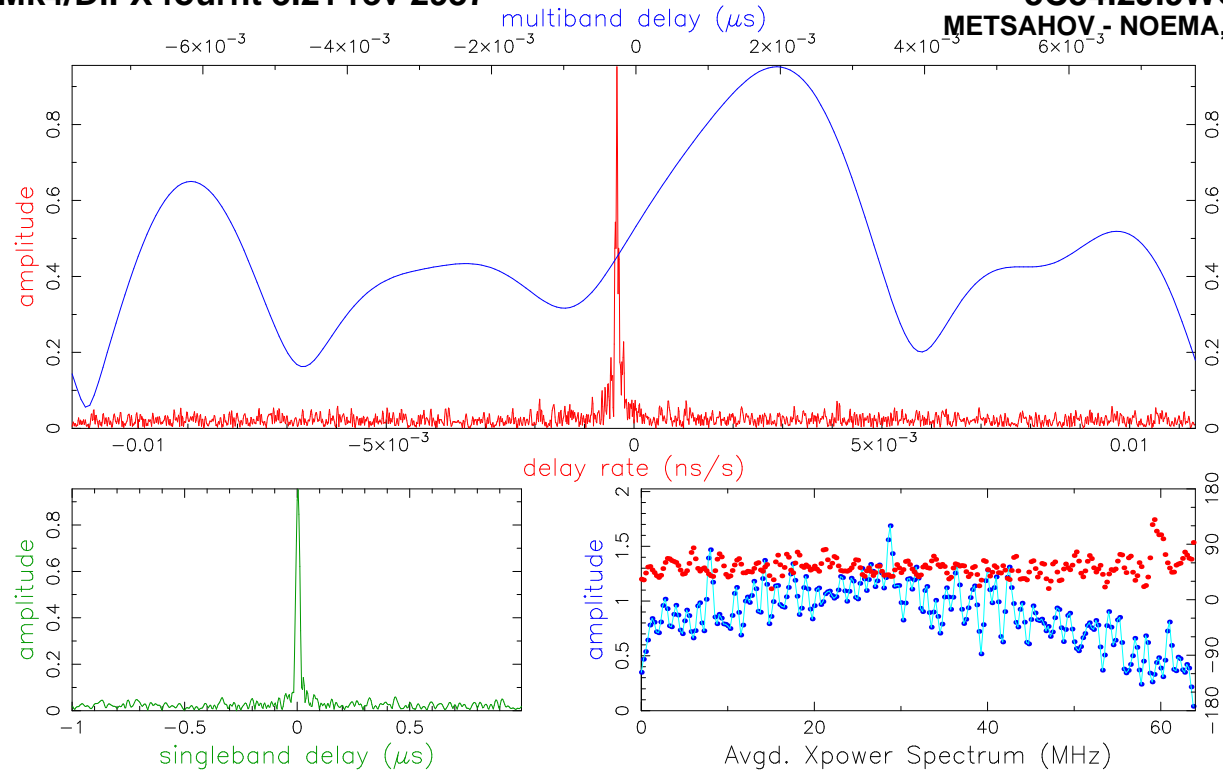


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-5.56502296629E+02	Apriori delay (usec)	-5.56507438235E+02	Resid mbdelay (usec)	5.14161E-03	+/-	3.4E-05
Sband delay (usec)	-5.56502660485E+02	Apriori clock (usec)	1.4237938E+01	Resid sbdelay (usec)	4.77775E-03	+/-	2.7E-04
Phase delay (usec)	-5.56507439281E+02	Apriori clockrate (us/s)	9.9630001E-08	Resid phdelay (usec)	-1.04577E-06	+/-	1.1E-07
Delay rate (us/s)	-1.52159889988E+00	Apriori rate (us/s)	-1.52159888110E+00	Resid rate (us/s)	-1.87789E-08	+/-	4.7E-10
Total phase (deg)	-295.1	Apriori accel (us/s/s)	-3.94671088999E-06	Resid phase (deg)	-32.4	+/-	3.6

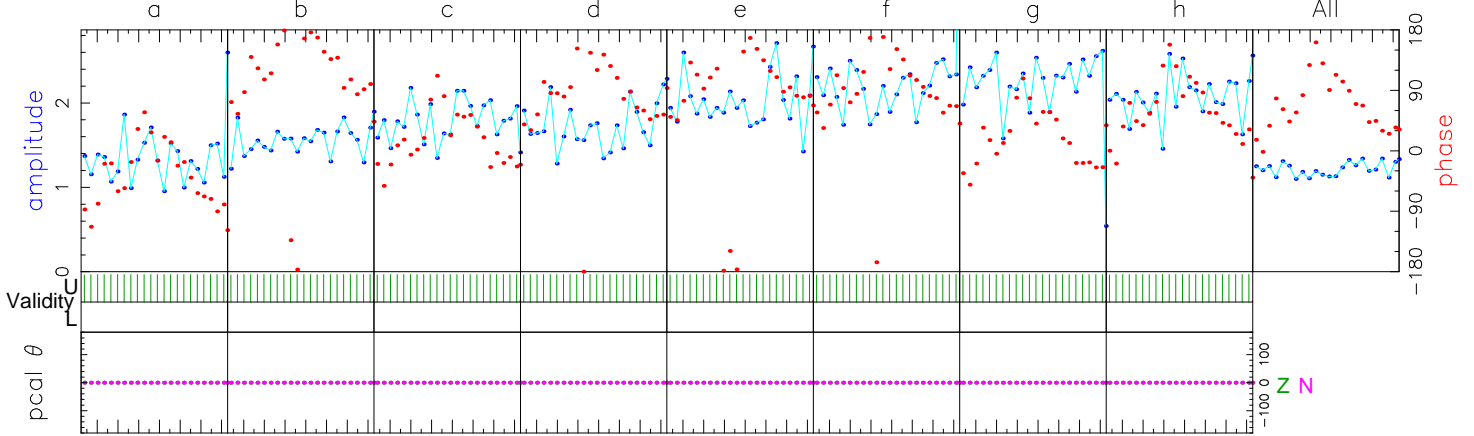
ph/seg (deg)	18.1	RMS	18.1	Theor.	8.5	Amplitude	0.576 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	25.0		25.0		14.9	Search (2048X32)	0.552	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	79.2		79.2		5.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	46.5		46.5		8.8	Inc. seg. avg.	0.592	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.764	nlags:	256	t_cohere:	infinite			

y: az 294.5 el 45.0 pa 74.2 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 11646.793 -986.869 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/yN..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/yN.W.76.2JI9WG



Fringe quality 2
 SNR 52.6
 Int time 406.183
 Amp 0.956
 Phase 65.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.003106
 MBD 0.001957
 Fringe rate (Hz)
 -0.029921
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Yr:day 16383
 Start 2023:009
 Stop 2022:094
 FRT 100013.31
 100659.84
 100330.00
 Corr/FF/build
 2023:009:135153
 2023:010:143652
 2021:252:122852
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

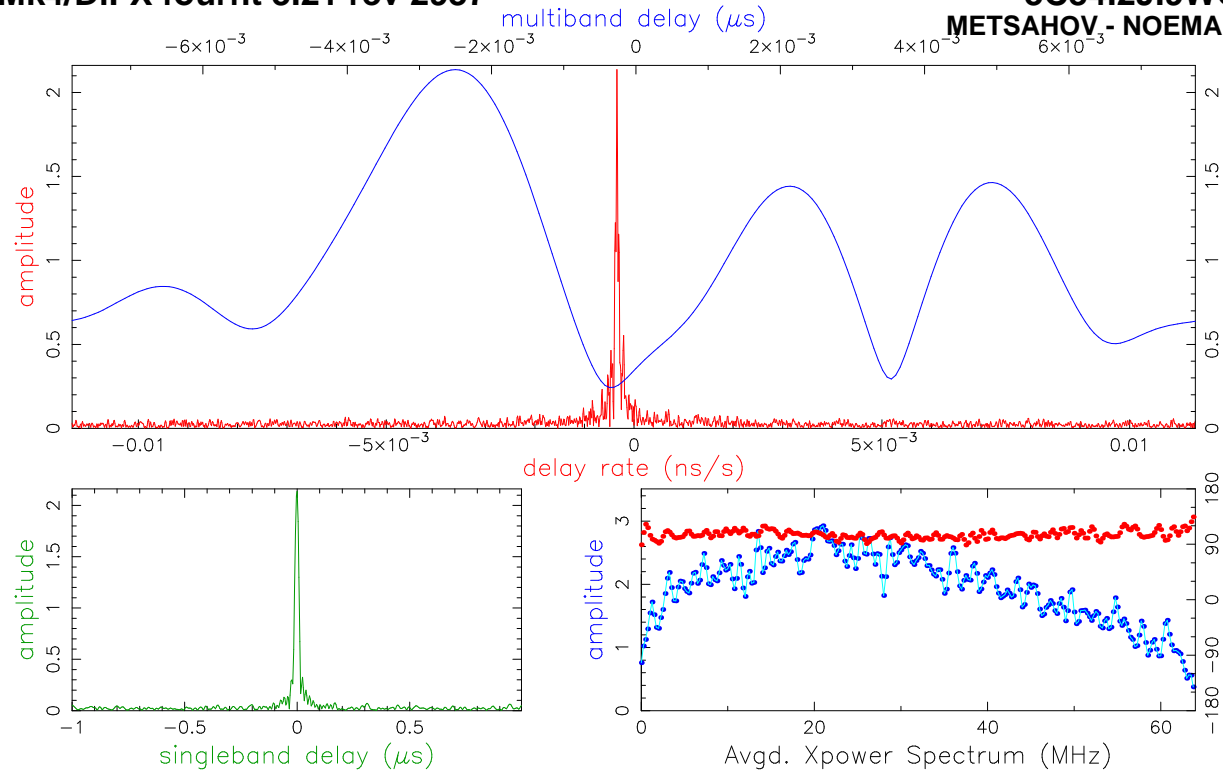


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-36.1	128.7	15.0	86.8	114.1	96.8	14.4	59.6	Phase	65.7
	0.9	1.2	1.4	1.4	1.5	1.7	1.7	1.5	Ampl.	1.4
	256.3	257.4	258.1	258.5	258.3	258.5	258.1	257.3	Sbd box	257.8
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs 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)	2.66835857311E+03	Apriori delay (usec)	2.66835661652E+03	Resid mbdelay (usec)	1.95658E-03	+/-	2.1E-05
Sband delay (usec)	2.66835972277E+03	Apriori clock (usec)	1.2801601E+01	Resid sbdelay (usec)	3.10625E-03	+/-	1.6E-04
Phase delay (usec)	2.66835661864E+03	Apriori clockrate (us/s)	3.9799999E-07	Resid phdelay (usec)	2.11844E-06	+/-	7.0E-08
Delay rate (us/s)	-3.33268360408E-01	Apriori rate (us/s)	-3.33268013051E-01	Resid rate (us/s)	-3.47357E-07	+/-	3.0E-10
Total phase (deg)	46.8	Apriori accel (us/s/s)	-1.73038540811E-06	Resid phase (deg)	65.7	+/-	2.2

ph/seg (deg)	40.2	RMS	5.2	Theor.	Amplitude	0.956 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	28.4	Search (2048X32)	0.908	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000			
ph/frq (deg)	62.4	Inc. seg. avg.	1.210	Inc. frq. avg.	1.426	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
amp/frq (%)	56.1	Inc. frq. avg.	1.426	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 105.6 el 57.9 pa -39.7 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 2547.096 955.167 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/ZN..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/ZN.W.109.2JI9WG

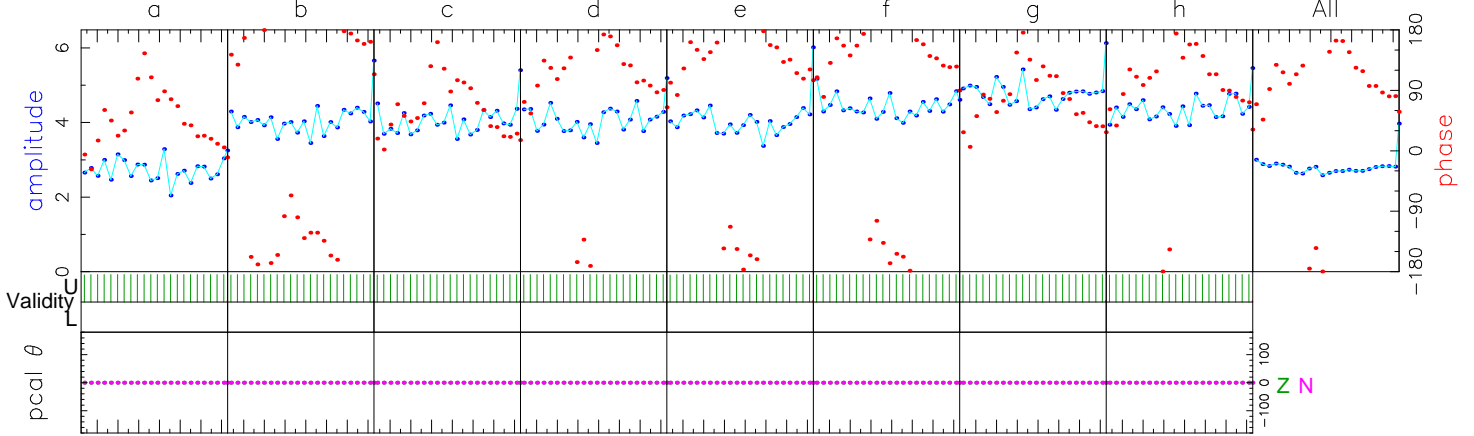


Fringe quality 2

SNR 119.1
Int time 406.183
Amp 2.162
Phase 119.0
PFD 0.0e+00
Delays (us)
SBD -0.001441
MBD -0.002516
Fringe rate (Hz)
-0.029958
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100013.31
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143643
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



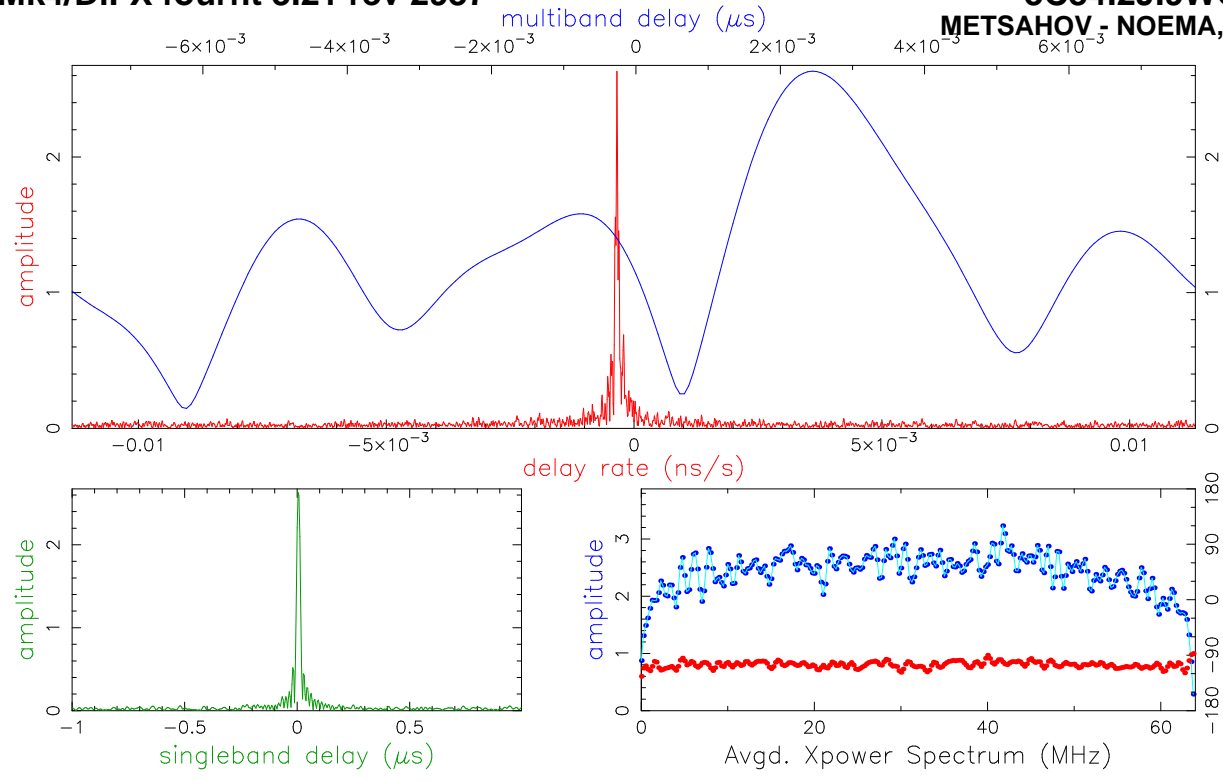
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	43.9	-163.1	61.5	126.4	153.1	160.4	77.4	113.1	Phase	119.0
	2.1	3.1	3.1	3.1	3.1	3.4	3.6	3.3	Ampl.	3.1
	254.7	256.2	256.9	257.2	257.6	257.3	257.1	256.4	Sbd box	256.6
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	2.66835410098E+03	Apriori delay (usec)	2.66835661652E+03	Resid mbdelay (usec)	-2.51554E-03	+/-	9.1E-06
Sband delay (usec)	2.66835517577E+03	Apriori clock (usec)	1.2801601E+01	Resid sbdelay (usec)	-1.44075E-03	+/-	7.2E-05
Phase delay (usec)	2.66835662036E+03	Apriori clockrate (us/s)	3.9799999E-07	Resid phdelay (usec)	3.83828E-06	+/-	3.1E-08
Delay rate (us/s)	-3.33268360834E-01	Apriori rate (us/s)	-3.33268013051E-01	Resid rate (us/s)	-3.47783E-07	+/-	1.3E-10
Total phase (deg)	100.1	Apriori accel (us/s/s)	-1.73038540811E-06	Resid phase (deg)	119.0	+/-	1.0

ph/seg (deg)	41.0	2.3	Search (2048X32)	2.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	28.9	4.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	57.3	1.4	Inc. seg. avg.	2.774	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	48.2	2.4	Inc. frq. avg.	3.113	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

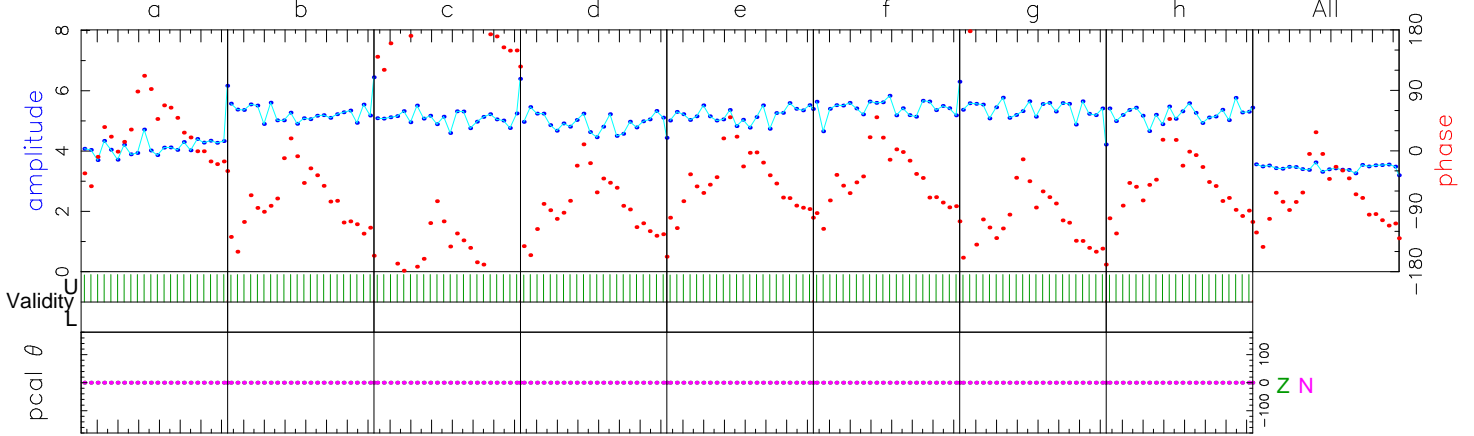
Z: az 105.6 el 57.9 pa -39.7 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 2547.096 955.167 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/ZN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/ZN.W.38.2J19WG



Fringe quality 2
 SNR 147.3
 Int time 406.193
 Amp 2.674
 Phase -70.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.005538
 MBD 0.002486
 Fringe rate (Hz)
 -0.029965
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 100013.31
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2023:009:135153
 2023:010:143646
 2021:252:122852
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



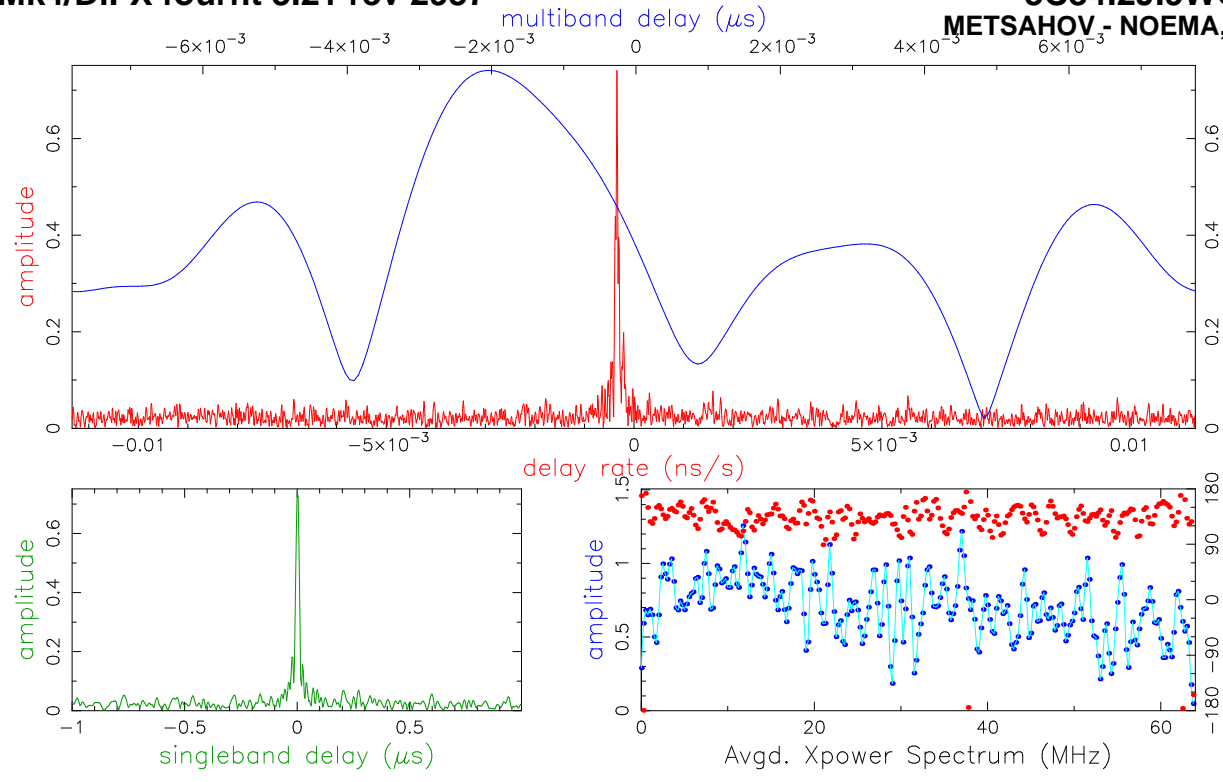
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	22.0	-77.9	-170.0	-86.6	-46.7	-42.6	-108.5	-50.7	Phase	-70.4
	3.1	4.0	4.0	3.8	4.0	4.2	4.1	3.9	Ampl.	3.9
	256.4	257.9	258.4	258.7	258.9	258.6	258.6	257.7	Sbd box	258.4
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.66835910220E+03	Apriori delay (usec)	2.66835661652E+03	Resid mbdelay (usec)	2.48568E-03	+/-	7.4E-06
Sband delay (usec)	2.66836215402E+03	Apriori clock (usec)	1.2801601E+01	Resid sbdelay (usec)	5.53750E-03	+/-	5.8E-05
Phase delay (usec)	2.66835661425E+03	Apriori clockrate (us/s)	3.9799999E-07	Resid phdelay (usec)	-2.27043E-06	+/-	2.5E-08
Delay rate (us/s)	-3.33268360911E-01	Apriori rate (us/s)	-3.33268013051E-01	Resid rate (us/s)	-3.47859E-07	+/-	1.1E-10
Total phase (deg)	270.7	Apriori accel (us/s/s)	-1.73038540811E-06	Resid phase (deg)	-70.4	+/-	0.8

ph/seg (deg)	41.9	1.9	Search (2048X32)	2.483	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	29.6	3.3	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	1.1	Inc. seg. avg.	3.458	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	46.5	1.9	Inc. frq. avg.	3.878	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
Z: az 105.6 el 57.9 pa -39.7	N: az 71.3 el 45.9 pa -64.6	u,v (fr/asec)	2547.096	955.167	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/ZN..2JI9WG Output file: /Exps/c221d/v1/3mm/3000/No0149/ZN.W.67.2JI9WG

simultaneous interpolator

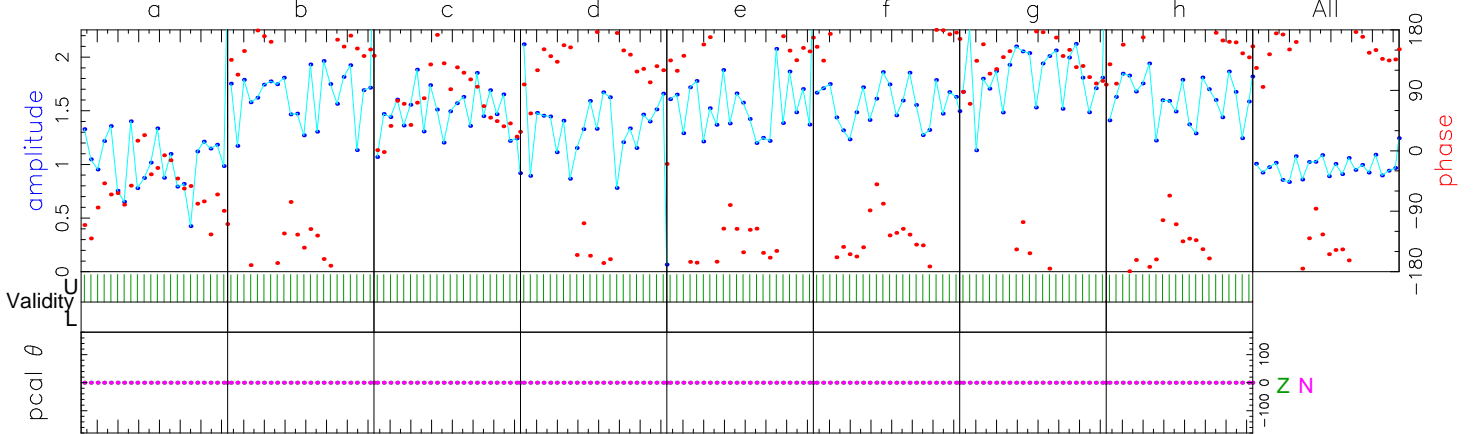


Fringe quality 4

SNR 41.4
Int time 406.193
Amp 0.751
Phase 172.8
PFD 0.0e+00
Delays (us)
SBD 0.001467
MBD -0.002006
Fringe rate (Hz)
-0.030001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 100013.31
Stop 100659.84
FRT 100330.00
Corr/FF/build
2023:009:135153
2023:010:143649
2021:252:122852
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-60.3	-177.6	72.7	148.1	-173.0	-150.3	144.9	-172.8	Phase	172.8
	0.8	1.3	1.1	1.0	1.1	1.2	1.3	1.2	Ampl.	1.1
	255.0	256.5	257.1	257.5	257.9	257.7	257.4	256.6	Sbd box	257.4
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	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)	2.66835461033E+03	Apriori delay (usec)	2.66835661652E+03	Resid mbdelay (usec)	-2.00620E-03	+/-	2.6E-05
Sband delay (usec)	2.66835808327E+03	Apriori clock (usec)	1.2801601E+01	Resid sbdelay (usec)	1.46675E-03	+/-	2.1E-04
Phase delay (usec)	2.66835662210E+03	Apriori clockrate (us/s)	3.9799999E-07	Resid phdelay (usec)	5.57235E-06	+/-	8.9E-08
Delay rate (us/s)	-3.33268361333E-01	Apriori rate (us/s)	-3.33268013051E-01	Resid rate (us/s)	-3.48282E-07	+/-	3.8E-10
Total phase (deg)	153.9	Apriori accel (us/s/s)	-1.73038540811E-06	Resid phase (deg)	172.8	+/-	2.8

ph/seg (deg)	41.5	RMS	6.6	Theor.	0.751 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	30.8	Search (2048X32)	0.694	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	70.0	Inc. seg. avg.	0.963	Inc. frq. avg.	1.137	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	55.5	Inc. frq. avg.	1.137	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
									ion window (TEC)	0.00 0.00	

Z: az 105.6 el 57.9 pa -39.7 N: az 71.3 el 45.9 pa -64.6 u,v (fr/asec) 2547.096 955.167 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0149/ZN..2J19WG Output file: /Exps/c221d/v1/3mm/3000/No0149/ZN.W.94.2J19WG