5C4-020-A Cooled Feed Test Report 2019-11-26

Installed at HCRO 2019-11-24, Antenna 3c

MINEX SUMMARY

Model-Config	**30-29-200-B**	**5C4 Chassis, Borosilicate Glass, Solid Cryo Cooler mount, Capacitor Board and SSL Tip Links**
Vacuum	**Very Good**	**Turbo/Diaphragm Pumps, 90krpm/14w Vacuum Gauge @ 80K 4.6e-07**
Cryo	**Very Good**	**Cryo Cooler, ColdHd 80K-LNA 83.4K/130w +/-**
X-pole	**Biased**	**Noise (will be done by Alex at HCRO)**
Y-pole	**Biased**	**Noise (will be done by Alex at HCRO)**

LNA BIAS SETTINGS

Vm + Vd must be set exactly to values below Adjust Vg as needed to get Id 24.4 to 24.8

Pole	Minex LNA S.N.	Bias Settings	PAM (Minex only)
X	C-0083a	Vm -.50v / Vg 0.12v / Vd 1.20v / Id 24.7ma	10.0 / 10.0
Y	C-0084a	Vm -.50v / Vg -0.07v / Vd 1.20v / Id 24.7ma	

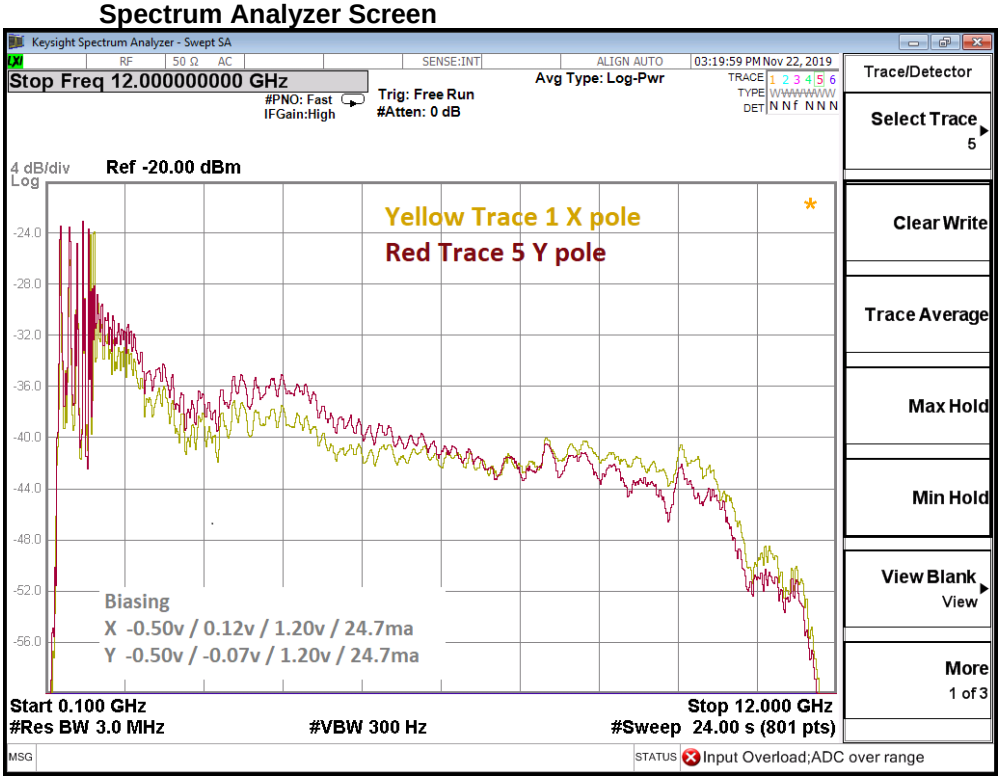
Feed Vacuum & Cryo Log

Time	cld hd (K)	LNA (K)	Vac mbar	Turbo RPM	Turbo amps	Turbo watts	elec. (C)	botm (C)	brng (C)	motor (C)	board (C)	inlet (C)	pax (C)	exhst (C)	rjctn (C)	housn (C)	Fan RPM	crnt watts	max watts	min watts	
14:14:58	80.0	83.1	4.5e-07	90018	0.6	14	42	33	32	36	24.8	22.3	24.3	25.6	34.0	37.7	2357	131.0	240.0	70.0	Y
14:15:28	80.0	82.9	4.5e-07	90017	0.5	14	42	32	32	36	25.0	22.2	24.5	25.4	33.9	37.8	2357	132.0	240.0	70.0	Y
14:15:58	80.0	83.1	4.5e-07	90017	0.6	14	42	33	32	36	25.4	22.2	24.5	25.4	33.8	37.8	2357	130.6	240.0	70.0	Y
14:16:28	80.0	83.4	4.5e-07	90018	0.6	14	42	33	32	36	24.9	22.1	24.6	25.4	33.7	37.9	2357	130.4	240.0	70.0	Y
14:16:58	80.0	83.1	4.5e-07	90020	0.5	14	42	32	32	36	24.9	22.4	24.4	25.7	33.8	37.8	2357	130.1	240.0	70.0	Y

Blank

Minex Hot Load Check

Spectrum Analyzer Screen



Minex Generated Chart