	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	8/16/2022														
2			Run description:	FRC/RMFo	Singlet - helicon run													
3	Base pressures:		SEC IG (T)	—														
4			CC IG (T)	—														
5			FEC IG (T)	2.9 e-7														
6			SEC Slow Baratron (T)	-.0001														
7			CC Slow Baratron (T)	-.001														
8			RMF frequency & phase															
9	Magnet configuration & PS			4x8 + 8x4 coils; BB PS & 2 Magna powers inside 8; eight BN-covered FCs								Recentered 4-turn MC coil						
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made							antennas: 2-turn;	cable: RG-226, 60" long						
11			Time	1:44	1:57	2:08	2:16		2:33	320	3:30	3:33	4:10	4:13				
12	Magnapower		L-2 Coils I (A)	1:57	280	280	280		280				410	200				
13	Big Blue		L-2 Coils I (A)		264	261	264		262				410	204				
14			Nozzle coils I (A)		100	100	100		100				100	100				
15			SEC IG (T)															
16			SEC Slow Baratron (T)		.0014	.0016	.0014		.0015					.0020				
17			CC IG (T)		—													
18			CC slow Baratron (T)		.697	.739	.736		.725					.702				
19			FEC IG (T)															
20			FEC FB (T)		2.5e-5	2.7e-5	2.7 e-5		2.7 e-5					2.7 e-5				
21	Ta paddle voltage				—													
22			Main valve		4													
23			Navigator valve		4													
24			End turbo valve		4													
25	Gases/feed location/sccm				H_2/cc													
26			PV-10 (V)															
27		Pulse	A $t_0/\Delta t$															
28			B $t_0/\Delta t$															
29	CC Pressure (mT)		P_b															
30	(Fast Baratron)		P_a															
31	**170 GHz**		dia (mV)/IM freq															
32	**Glassman**		High Voltage (kV)		gauges -													
33	**RMFo system**		main SRS		Ocean													
34			Pulse width (ms)															
35	Time between pulses (s)																	
36	Frequency: Center(MHz)/Span(KHz)																	
37	V_f	Value	Phase °		2.779	2.755	2.702		2.702				2.664	2.694				
38	V_r		φ_a		.841	.849	.843		.849				.991	.752				
39			P_f (kW)															
40	ϕ_M or % reflected			—	(agitation)													
41			FEC probe	—														
42			CC Probe	—														
43			Helicon Pf/Pr															
44			Helicon (SRS/mod)	0.24														
45	Comments/changes:			for $\Delta\phi = \pi/2$, n_e =2.1e12 cm-3 for 16-cm dia plasma													sheet ___ of ___	

Plasma Off
Gate Valve 35 - 200
Looking at TP
Plasma OFF
Looking at thermal noise
Looking at TP
Plasma noise
Plasma off
Plasma on
Plasma off