

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	5/5/2027														
2			Run description:	FRC/RMFO	RHP-X-ray	He plasma												
3			Base pressures: SEC IG (T)															
4			CC IG (T)															
5			FEC IG (T)															
6			SEC Slow Baratron (T)	+1.0004														
7			CC Slow Baratron (T)	+1.001														
8			RMF frequency & phase	2.9 e-7														
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			5000 Time	11.10	11.36	11.44	11.51	11.55	12.01	12.05	12.09	12.27					12.58-18.10	
12	Magnapower	L-2 Coils I (A)		153	140	140			141			140						
13	Big Blue	L-2 Coils I (A)		130	163	164			155			153						
14		Nozzle coils I (A)		100	101	101			101			101						
15		SEC IG (T)																
16		SEC Slow Baratron (T)		0.014	0.011	0.007						0.030	0.030					
17		CC IG (T)																
18		CC slow Baratron (T)		1.476	2.89	2.610						3.02	3.01					
19		FEC IG (T)		5.5	1.5	1.6						1.5	1.8 (9)					
20		FEC FB (T)		e-6	e-5	e-5						e-5	e-5					
21		Ta paddle voltage																
22		Main valve		C														
23		Navigator valve		C														
24		End turbo valve		C														
25		Gases/feed location/sccm		He/Ar		He/Ar												
26		PV-10 (V)																
27		Pulse A to/Δt																
28		Pulse B to/Δt																
29		CC Pressure (mT)		Pb														
30		(Fast Baratron)		Pa														
31		170 GHz		dia (mV)/IM freq														
32	Glassman	High Voltage (kV)		16	16	16												
33	RMFO system	main SRS		2.1	2.5	2.1			2.7	17	17	2.7						
34		Pulse width (ms)		1.5	1.5	1.5												
35		Time between pulses (s)		1.10	2.34													
36		Frequency: Center(MHz)/Span(KHz)		600	285													
37		Phase °																
38		Pa		23	34	34			38	39	42							
39		Pr (kW)		100	87	98			102	110	110							
40		ΦM or % reflected																
41	Vf			2.22					2.15									
42	Vr			0.115					0.243									
43		Helicon Pf/Pr		3.02														
44		Helicon (SRS/mod)		0.20														
45		Comments/changes:		for Δφ = π/2, ne = 2.1e12 cm-3 for 16-cm dia plasma														

$$\Delta\phi = 3.6$$

$$\tau_D = 0.4 \text{ ms}$$

$$\Delta\phi = 2.8$$

$$\tau_D = 0.4$$

$$\tau_D = 0.2$$

$$\tau_D = 0.2$$