

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	7/6/22														
2			Run description:	FRC/RMF ₀	Helicon	R. S. R.												
3			Base pressures: SEC IG (T)															
4			CC IG (T)															
5			FEC IG (T)	2.3E-7														
6			SEC Slow Baratron (T)	-0.001														
7			CC Slow Baratron (T)	0.001 mT														
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	10:10	11:00	11:31	11:50	11:59	12:19	12:34	1:010	1:38	2:06	2:38	3:06	3:37	3:55	4:22
12	Magnapower	L-2 Coils I (A)	150	150	150	150			150	150	150	150	150	150	150	150	150	150
13	Big Blue	L-2 Coils I (A)	225	219	223	224			224	225	222	223	222	222	222	222	381	381
14		Nozzle coils I (A)	300	300	300	300			299	300	300	300	300	300	299	200	200	201
15		SEC IG (T)																
16		SEC Slow Baratron (T)		0.009	0.007				0.006	0.006	0.006	0.006	0.007	0.006		0.005	0.005	0.005
17		CC IG (T)																
18		CC slow Baratron (T)		0.271	0.271	0.279	0.278	0.282	0.283	0.282	0.288	0.285	0.286	0.287	0.280	0.283	0.285	0.286
19		FEC IG (T)		1.1	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	9.9	9.9	9.9
20		FEC FB (T)		0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
21		Ta paddle voltage																
22		Main valve																
23		Navigator valve																
24		End turbo valve																
25		Gases/feed location/sccm																
26		PV-10 (V)																
27		Pulse A to/Δt																
28		Pulse B to/Δt																
29		CC Pressure (mT)																
30		(Fast Baratron)																
31		170 GHz dia (mV)/IM freq																
32		Glassman High Voltage (kV)																
33		RMF ₀ system main SRS																
34		Pulse width (ms)																
35		Time between pulses (s)																
36		Frequency: Center (MHz)/Span (kHz)																
37		Phase°		2.728	2.749	2.773	2.773		2.70	2.65	2.760	2.760	2.764	2.772	2.777	2.783		2.796
38		Pa		0.936	0.939	0.941	0.942		0.944	0.944	0.941	0.942	0.942	0.938	0.926	0.969		0.973
39		Pa (mm)		0.24	0.24	0.25	0.25		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25		0.25
40		ΦM or % reflected																
41		FEC probe																
42		CC Probe																
43		Helicon Pf/Pr																
44		Helicon (SRS/mod)																
45		Comments/changes:	for Δφ = π/2, n _e = 2.1e12 cm ⁻³ for 16-cm dia plasma															

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	7/6/22														
2			Run description:	FRC/RMFo														
3			Base pressures: SEC IG (T)															
4			CC IG (T)															
5			FEC IG (T)															
6			SEC Slow Baratron (T)															
7			CC Slow Baratron (T)															
8			RMF frequency & phase															
9			Magnet configuration & PS	4x8 + 8x4 coils; BB PS & 2 Magna powers inside 8; eight BN-covered FCs														
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made														
11			Time	5:10	5:13													
12			Magnapower L-2 Coils I (A)	150	150													
13			Big Blue L-2 Coils I (A)	353	384													
14			Nozzle coils I (A)	201	201													
15			SEC IG (T)															
16			SEC Slow Baratron (T)	1000	1000													
17			CC IG (T)															
18			CC slow Baratron (T)	283	283													
19			FEC IG (T)	9.9	9.9													
20			FEC FB (T)	e-l	e-b													
21			Ta paddle voltage															
22			Main valve															
23			Navigator valve															
24			End turbo valve															
25			Gases/feed location/sccm															
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)														
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34				Pulse width (ms)														
35				Time between pulses (s)														
36				Frequency: Center(MHz)/Span(KHz)														
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38				Pa														
39				Pr (kW)														
40				OM or % reflected														
41				FEC probe														
42				Probe														
43				Helicon Pf/Pr														
44				Helicon (SRS/mod)														
45			Comments/changes:	for $\Delta\phi = \pi/2$, $n_e = 2.1 \times 10^{12} \text{ cm}^{-3}$ for 16-cm dia plasma														