

2015/11/12

Helicon modulation, no RMF, with  
 $H_2$  and Ar, for the same  $x/a$ ,  
traces.

Voiced Nozzle, CC pressure

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	11/14/15	12/1/15													
2			Run description:	FRC/RMFO														
3			Base pressures: Main IG (T)	6.3e-7														
4			ER IG (T)	1.7e-7														
5			Satellite IG (T)	1.7e-7														
6			Main chamber Baratron (T)	0.00590														
7			Expansion region Baratron (T)	0.00														
8			Antennas/delay lines	2-turn, RG-217, 15" long														
9			RMF frequency & phase															
10			Magnet configuration & PS	4x8 + 8x4 coils; RR PS; eight BN-covered FCs														
11			RMF system	SRS-> duty factor limiter -> AR100LM9 -> 2KD -> four 8K Ultras														
12			Wall Time	3:07	3:22	3:38	3:59	4:13	4:26	4:25	4:35	4:45	4:56	5:05	5:11	5:20	5:25	6:04
13			Main magnets I (A)	111	113	102	99	99	97	96	97	95	106	105	107	107	107	107
14			Nozzle coils I (A)	300	300	300	405	405	200	100	50	0	400	400	400	400	400	400
15			MC IG (T)															
16			MC Slow Baratron (T)	0.0068	0.00689	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
17			MC FB (T)															
18			ER IG (T)															
19			ER slow Baratron (T)	0.54	0.42	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
20			ER FB (T)															
21			Satellite IG (T)	2.2e-7	2.1e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7	1.9e-7
22			Satellite FB (T)															
23			Bias voltage: paddle															
24			Main valve															
25			Navigator valve															
26			End turbo valve															
27			Gases/feed location/sccm															
28			PV-10 (V)															
29			Pulse	A to/Δt														
30				B to/Δt														
31				C to/Δt														
32			Diagnostics	LeCroy time														
33			Spectr	PM Tube (V)														
34			Wavelength	Port/LOS														
35			170 GHz	dia (mV)/IM freq														
36			X-ray	Amptek														
37			RMFO system	main SRS														
38			Pulse width (ms)/ rep rate (Hz)															
39			Frequency: Center (MHz)/Span (KHz)															
40			Pr/% refl															
41			PM															
42			Satellite probe															
43			ER Probe															
44			Pf/Pr															
45			Helicon (SRS/Power/%mod)															
46			Comments/changes:	for Δφ = π/2, n <sub>e</sub> = 2.1e12 cm <sup>-3</sup>														
47																		

MC X-ray viewing

MC X-ray

1 BLUE!



[illegible]