

2016/01/29: Friday

Helicon only

Hydrogen.

X-ray spectra in CC & SEC } at low pressure.  
X-ray + low-dispersion in CC & SEC }

2016/01/29 Friday

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Date:																	
2	Run description:			FRC/RMFO														
3	Base pressures: Main IG (T)																	
4	ER IG (T)																	
5	Satellite IG (T)			4.1e-7														
6	Main chamber Baratron (T)			0.00736														
7	Expansion region Baratron (T)			0.002														
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	Recentered 4-turn MC coil													
11	RMF system			SRS-> duty factor limiter -> AR100LM9 -> 2KD -> four 8K Ultras														
12	Wall Time			10:36	10:49	10:49	10:53	11:10	11:30	12:02	12:51	1:06						
13	Main magnets I (A)			93							93							
14	Nozzle coils I (A)			300														
15	MC IG (T)								same									
16	MC Slow Baratron (T)			0.0077		0.0077		0.0077	changed as 104	0.0077	0.0077	0.0077						
17	MC FB (T)								was is									
18	ER IG (T)								dripping a bit									
19	ER slow Baratron (T)			0.216		0.230		0.220		0.222	0.232	0.018						
20	ER FB (T)									1.0e-5	9.9e-6	5.8e-7						
21	Satellite IG (T)			1.0e-5		1.0e-5		9.9e-6										
22	Satellite FB (T)								East side									
23	Bias voltage: paddle				for				West side									
24	Main valve				-1/3 sec				South side of the									
25	Navigator valve			open	power			again	power									
26	End turbo valve			open	power													
27	Gases/feed location/scdm			xy	xy													
28	PV-10 (V)			stop	and			not	Drift									
29	Pulse			A to/Δ				stopping	will continue									
30				B to/Δ	time	time												
31				C to/Δ	time	time												
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	Pa																	
41	Pr/% refl																	
42	ΦM																	
43	Satellite probe																	
44	ER Probe																	
45	Pf/Pr																	
46	Helicon (SRS/Power/%mod)																	
47	Comments/changes:			for Δφ = π/2, n <sub>e</sub> = 2.1e12 cm <sup>-3</sup>														