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16cm RF w/RFN Source Checkout

These data are representative of a 16 cm RF/RFN extension mount source with 3 focal point grids. Actual run data will vary with specific system conditions.

Data obtained on Techne prototype system. Gas flows are 4 sccm Argon RFNs, 16 sccm Argon 16 cm, 10 sccm Oxygen 12 cm, 15 sccm Oxygen Titanium target.

These data are for general information purposes only.

Gas Flow Source	Gas Flow RFN	Gas Type	Chamber Pressure	Beam		Accel		RF		Neutralizer		Comment other info
				Current	Voltage	Current	Voltage	FWD	REF	Emission	RF FWD	
[sccm]	[sccm]		[x10-4 Torr]	[mA]	[V]	[mA]	[V]	[W]	[W]	[mA]	[W]	
			base pressure is 2.9x10-7 Torr									
Source Warmup												
16.0	4.0	Argon	5.5	24	50	0	250	249	0	500	50	all process gasses are ON
Source Check-out / Beam Envelope Check												
16.0	4.0	Argon	5.5	100	250	3	200	132	0	150	40	
16.0	4.0	Argon	5.5	300	250	11	550	249	0	450	50	
16.0	4.0	Argon	5.5	100	500	2	200	127	0	150	40	
16.0	4.0	Argon	5.5	300	500	9	400	244	0	450	50	
16.0	4.0	Argon	5.5	100	750	2	150	126	0	150	40	
16.0	4.0	Argon	5.5	300	750	6	150	247	0	450	50	
16.0	4.0	Argon	5.5	450	750	14	300	340	0	675	60	
16.0	4.0	Argon	5.5	100	1000	2	100	124	0	150	40	
16.0	4.0	Argon	5.5	300	1000	6	150	235	0	450	50	
16.0	4.0	Argon	5.5	600	1000	16	350	420	0	900	60	
16.0	4.0	Argon	5.5	100	1250	3	100	120	0	150	40	
16.0	4.0	Argon	5.5	300	1250	5	150	232	0	450	50	
16.0	4.0	Argon	5.5	600	1250	13	150	417	0	900	60	
16.0	4.0	Argon	5.5	100	1500	4	100	119	0	150	40	
16.0	4.0	Argon	5.5	300	1500	6	150	222	0	450	50	
16.0	4.0	Argon	5.5	600	1500	11	150	397	0	900	60	
Total Time on source: _____ min.												