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23cm RF w/RFN Source Checkout

These data are representative of a 23 cm RF/RFN extension mount source with 66cm divergent grids. Actual run data will vary with specific system conditions.

Data obtained on Turbo Techne system. Gas flows are 5 sccm Argon RFN, 25 sccm Argon source, 20 sccm Oxygen Aluminum 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												
18.0	6.0	Argon/Ox	4.5	88	30	0	300	200	0	500	50	all process gasses are ON
Source Check-out / Beam Envelope Check												
25.0	6.0	Argon/Ox	5.5	750	100	51	900	317	1	938	60	
25.0	6.0	Argon/Ox	5.6	1000	100	76	1000	427	1	1250	75	
25.0	6.0	Argon/Ox	5.4	500	250	38	500	224	0	244	65	
25.0	6.0	Argon/Ox	5.5	750	300	55	700	315	1	937	65	
25.0	6.0	Argon/Ox	5.3	500	500	34	300	222	0	225	40	
25.0	6.0	Argon/Ox	5.4	750	500	52	500	317	1	935	60	
25.0	6.0	Argon/Ox	5.6	1000	500	74	600	423	1	1250	75	
25.0	6.0	Argon/Ox	5.4	750	750	45	200	319	1	937	60	
25.0	6.0	Argon/Ox	5.6	1250	750	110	500	544	3	1375	75	
25.0	6.0	Argon/Ox	5.9	500	1000	33	200	197	0	250	40	
25.0	6.0	Argon/Ox	5.9	750	1000	47	200	292	0	924	50	
25.0	6.0	Argon/Ox	6.0	1250	1000	81	250	512	2	1560	60	
25.0	6.0	Argon/Ox	6.0	1500	1000	125	250	666	5	1650	95	
20.0	6.0	Argon/Ox	6.0	250	1250	17	150	113	0	298	40	
20.0	5.0	Argon/Ox	6.1	750	1250	39	150	296	1	940	60	
20.0	5.0	Argon/Ox	6.3	1250	1250	60	200	523	3	1375	75	
20.0	5.0	Argon/Ox	6.1	1500	1250	73	250	671	5	1650	95	
Total Time on source:				min.								

data from 121923 - Turbo Techne machine SO 10124 - Kern