

Data for SQZT7 Beam profiling on July 22nd

65.7cm from LPM to 0" on rail

Measured rail guide head to front of Profiler is 1/4"

200V, 200V ZM PSAMS settings

	Profiler rail marking	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	33"	1790	1984	2336	2108
2	25"	1794	1951	2193	2053
3	18"	1822	1946	2110	2040
4	10"	1867	1963	2169	2063
5	2"	1907	1969	2292	2271
6	From LPM: 40.3cm	1970	1968	2275	2345
7	From LPM: 9cm	2108	2074	2719	2401

ZM4 @ 200V, ZM5 @ 0V

	Profiler rail marking	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	From LPM: 11cm	1425	1547	1815	1845
2	From LPM: 48.5cm	1795	1908	2288	2117
3	2"	2066	2148	2478	2694
4	10"	2279	2360	2614	2373
5	18"	2533	2580	2795	2553
6	26"	2761	2815	3081	2947
7	33"	3035	3059	3283	3158

ZM4 @ 0V, ZM5 @ 200V

	Profiler rail marking	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	33"	1982	2792	2729	3469
2	25"	1881	2576	2566	3158
3	18"	1807	2430	2378	3269
4	10"	1725	2302	2243	3286
5	2"	1677	2146	2353	3298
6	From LPM: 47.5cm	1632	1961	2383	2988
7	From LPM: 4"	1631	1746	2246	3298

ZM4 @ 6V on strain gauge, ZM5 @ 200V

	Profiler rail marking	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	From LPM: 4"	1834	1817	2210	2256
2	From LPM: 39.5cm	1773	1821	2113	2194
3	2"	1740	1863	2176	2504
4	10"	1730	1901	2090	2151
5	18"	1743	1939	2091	2120
6	25"	1761	2017	2163	2203
7	33"	1802	2112	2315	2330
8	2" (redo)	1738	1838	2278	2381

ZM4 @ 6V on strain gauge, ZM5 @ 0V

	Profiler rail marking	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	From LPM: 10.8cm	1598	1691	1869	1776
2	From LPM: 39.5cm	1923	1994	2244	2294
3	2"	2340	2358	2686	2763
4	10"	2551	2569	2764	2592
5	18"	2774	2783	3005	2785
6	25"	2976	2983	3234	2947
7	33"	3261	3257	3547	3473

ZM4 @ 6V on strain gauge, ZM5 @ 160V

	Profiler rail marking	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	From LPM: 10.7cm	1667	1703	1960	1988
2	From LPM: 41.2cm	1636	1713	2026	2027
3	2"	1637	1789	2043	2118
4	10"	1652	1843	1975	1927
5	18"	1698	1902	2038	1986
6	25"	1732	1987	2141	2085
7	33"	1813	2079	2356	2204

ZM4 @ 0V, ZM5 @ -0.4V strain (nominal)

	Profiler rail marking	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	From LPM: 14cm	1489	1548	2428	1934
2	From LPM: 38.1cm	1530	1695	2072	2179
3	2"	1665	1866	2049	2258
4	10"	1762	2000	2085	2145
5	18"	1889	2126	2234	2231
6	25"	1990	2272	2350	2387
7	33"	2132	2420	2663	2561

ZM4 @ 200V, ZM5 @ -0.4V strain (nominal)

	Profiler rail marking	A1 horizontal 13.5%	A2 vertical 13.5%	A1 horizontal D4sigma	A2 vertical D4sigma
1	From LPM: 13.4cm	1572	1592	1993	2057
2	From LPM: 39.5cm	1520	1591	1941	1890
3	2"	1508	1629	1929	2005
4	10"	1550	1682	1748	1717
5	18"	1597	1778	1988	1821
6	25"	1653	1850	1730	1908
7	33"	1742	1970	2256	2064
8	2" (redo)	1499	1615	1838	2023