

Table 1: Sensitive distances achieved at various FAR thresholds, evaluated across multiple one-month datasets with identical real detector noise (offset = 0 and noise seed = 2514409456) but different sets of signal injections.

#	Injection Seed	S (Mpc) 1/month	S (Mpc) 10/month	S (Mpc) 100/month
1	2514409456	1574.94	1632.87	1816.48
2	12019	1584.71	1638.79	1814.27
3	10209	1555.73	1613.79	1793.98
4	9801	1574.38	1624.49	1802.85
5	6291	1571.94	1628.12	1797.46
6	555	1587.36	1637.09	1823.07
7	291	1582.93	1642.93	1833.30
8	93	1569.01	1624.76	1812.07
9	32	1571.75	1626.39	1804.75
10	9	1573.24	1622.46	1814.49
	μ_S (mean)	1574.6 ± 6.5	1629.2 ± 6.3	1811.3 ± 8.5
	σ_S (std. dev.)	$\in [6.2, 16.5]$	$\in [6.0, 16.0]$	$\in [8.2, 21.7]$
	$\sigma_S/\bar{\mu}_S$	$\in [0.4\%, 1.0\%]$	$\in [0.4\%, 1.0\%]$	$\in [0.5\%, 1.2\%]$