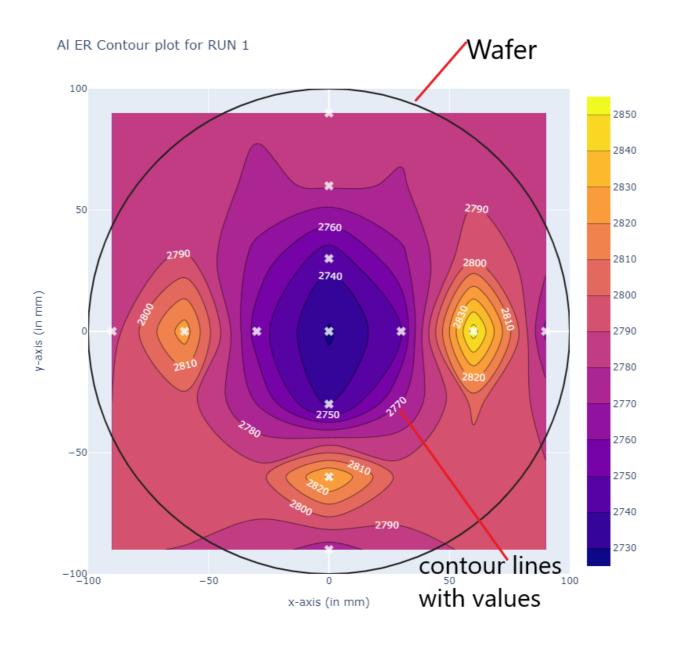
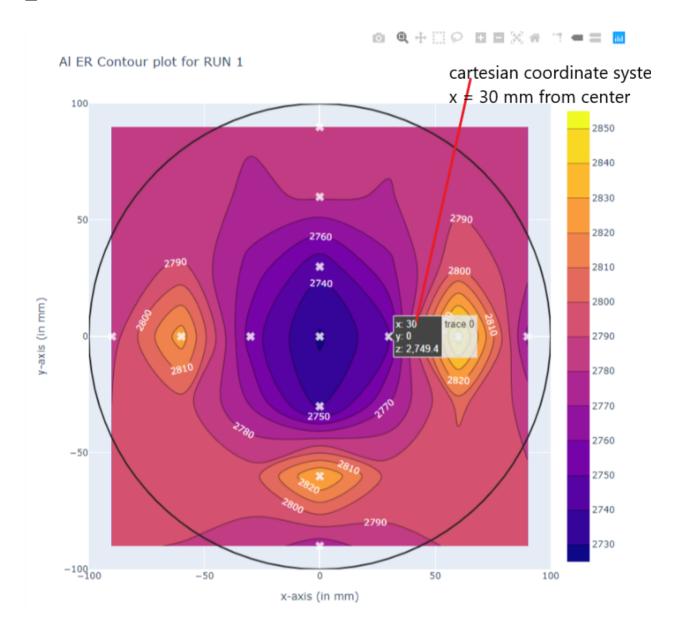
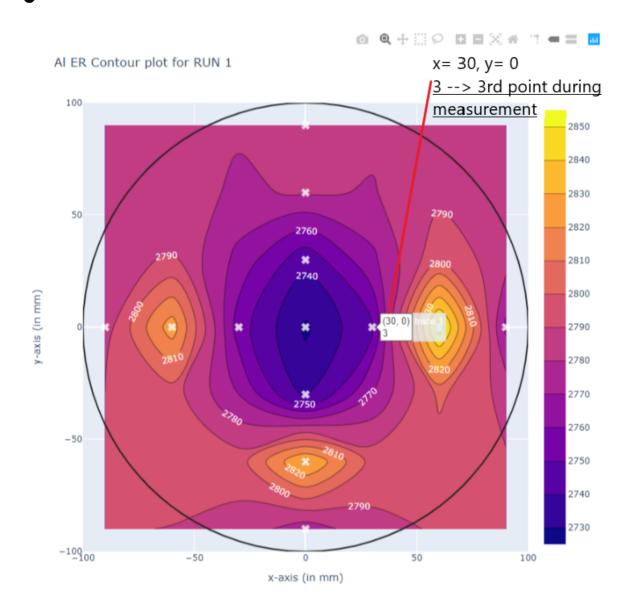
REML1 AI ER Analysis on XRA vs MTRS1

Contour Plot Explained

1





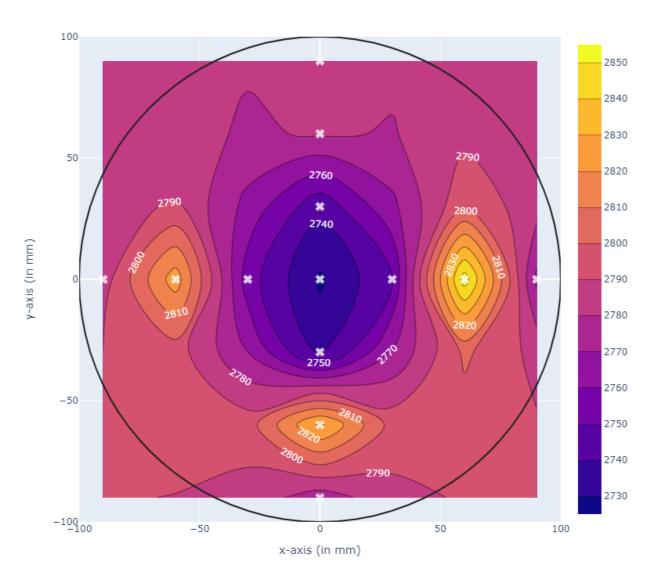


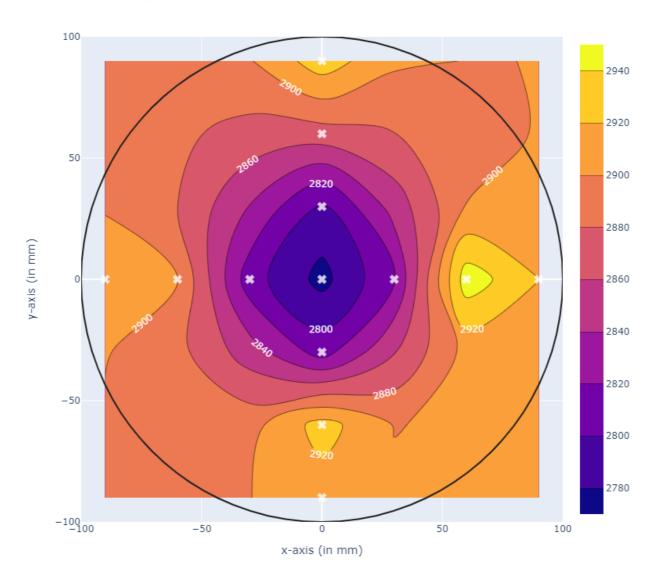
Equipment-1: XRA

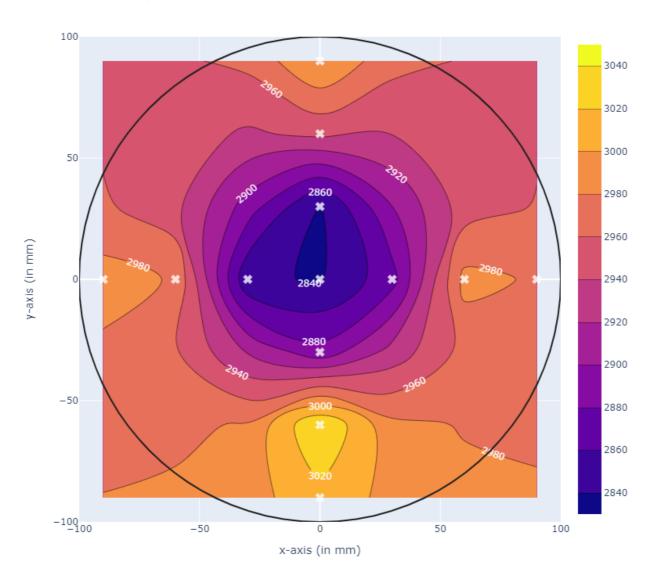
Excel file data in XRA

A	В	С	D	E	F	G	Н	1	J	K	L	M	N	0	P	Q	R	S	T	U	V	W	X
QC LOG BOOK												Note:											
Area: Dry Etch													As per XR	,									
C Name: ER Frequency: 72hrs or 500 production wfs														gree axis									
	Vafer Type: AL 3600 Measurment Tool (XRA01) Recipe: ALCU-XRA ccipe: CHIA AL ER ass Criteria for Etch rate: LSL: USL: Å /Min ass Criteria for Uniformity: <.15%													egree axis									
														degree ax									
													x> 2/0	degree ax	15								
Pass Criteria for	Uniformity: <157	6																					
							1	hickness	(Å)														
	Polar (r, theta)	(0, 0)	(30, 0)	(30, 90)	(30, 180)	(30,	(60, 0)	(60, 90)	(60,	(60,	(90, 0)	(90, 90)	(90,	(90, 270									
	Cartesian (x, y)	(0, 0)	(0, -30)	(30, 0)	(0, 30)	(-30, 0)	(0, -60)	(60, 0)	(0, 60)	(-60, 0)	(0, -90)	(90, 0)	(0, 90)	(-90, 0)									
Date	Site	site_1	site_2	site_3	site_4	site_5	site_6	site_7	site_8	site_9	site_10	site_11	site_12	site_13	Max	Min	Etch	STDEV	% Uni	Result	Tech EC	Lot ID	
(MM/DD/YYYY)		_	_	_	_	_	_	_	_	_	_	_		_	Etch	Etch	Rate						
															Rate	Rate	(A/Min						
*	*	*	*	-	-	-	-	-	-	-	-	-	*	-	-	-	``) "	-	-		*	-	Remarks
10/25/2019	Pre	3684.4	3680.6	3658	3699.8	3655	3641.8	3641.7	3749.7	3664.2	3679	3705.3	3793.7	3749	2855.2	2728.6	2777.9	38.8255	2.27		1519		RUN 1
	Post	2320.1	2312.7	2283.3	2328.3	2277.7	2226	2214.1	2359.1	2251.5	2292	2321.5	2402.8	2356.5									
	ER_point																						
		2728.6	2735.8	2749.4	2743	2754.6	2831.6	2855.2	2781.2	2825.4	2774	2767.6	2781.8	2785									
11/08/2019	Pre	3587.8	3570.7	3605.8	3555.3	3590.7	3560.3	3656.4	3605.9	3631.8	3675.8	3729.2	3699.3	3674	2951.2	2773.6	2872.3	61.9521	3.10		64		RUN 2
	Post	2201	2165	2196.6	2157.9	2186.3	2096.2	2180.8	2170.2	2181.6	2220.9	2269.1	2233.7	2213.6									
	ER_point																						
	-	2773.6	2811.4	2818.4	2794.8	2808.8	2928.2	2951.2	2871.4	2900.4	2909.8	2920.2	2931.2	2920.8 3776.9				73.0276					
11/11/2019	Pre	3665.2	3672.9		3655	3624.6	3714.5	3674.1	3705.5	3672	3773.3	3799.2	3811.2	0.1.0.0	3040.4	2837	2939	/3.02/6	3.46		102		RUN 3
	Post ER point	2246.1	2229.4	2217.4	2236.5	2202.8	2194.3	2181.2	2233.2	2183	2267	2310.4	2310.8	2282.7									
	EK_DOINT	2838.2	2887	2872.4	2837	2843.6	3040.4	2985.8	2944.6	2978	3012.6	2977.6	3000.8	2988.4									
11/11/2019	Pre	3669.1	3620.3	3660.4	3651	3672.8	3672.6	3647.1	3616.1	3714.1	3810.8	3730.6	3733.4	3804.9	3025.8	2861.6	2941.7	54.3941	2.79		102		RUN 4
12/11/2015	Post	2235.6			2220.2	2234.5	2186.8	2150.6	2132.6	2201.2	2338.8	2257.8	2246.6		5525.0	2002.0			2.75		202		
	ER point						2220.0		220210		2000.0		22.3.0	2002.4									
		2867	2903	2906.6	2861.6	2876.6	2971.6	2993	2967	3025.8	2944	2945.6	2973.6	3007									
11/13/2019	Pre	3577.9	3567.7	3580.8	3537.8	3569.9	3544.5	3624.8	3590.8	3614.6	3652.2	3698	3686	3667.9	3029.6	2862.2	2931.9	54.3193	2.84		102		RUN 5
	Post	2146.8	2118.6	2140.3	2095.2	2135.3	2042.8	2110	2104.7	2144.6	2188.9	2199.9	2219.4	2209									
	ER_point																						
		2862.2	2898.2	2881	2885.2	2869.2	3003.4	3029.6	2972.2	2940	2926.6	2996.2	2933.2	2917.8									
	Pre																	#DIV/01					

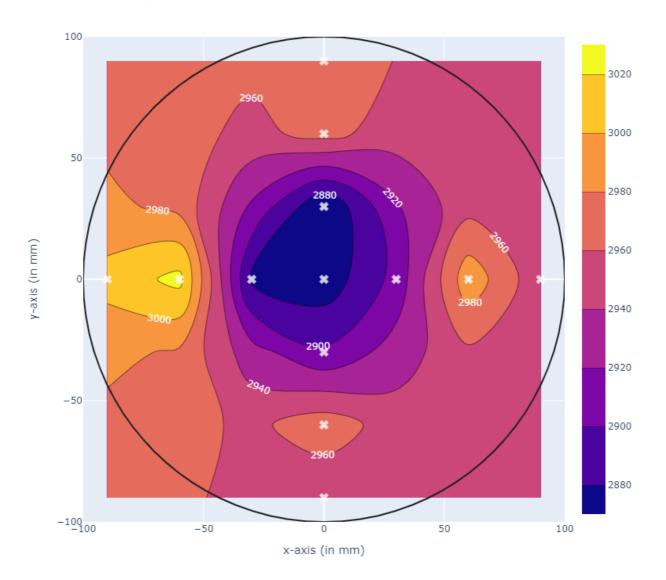
Contour Plots for Al Etch Rate (ER) in 5 Runs RUN-1

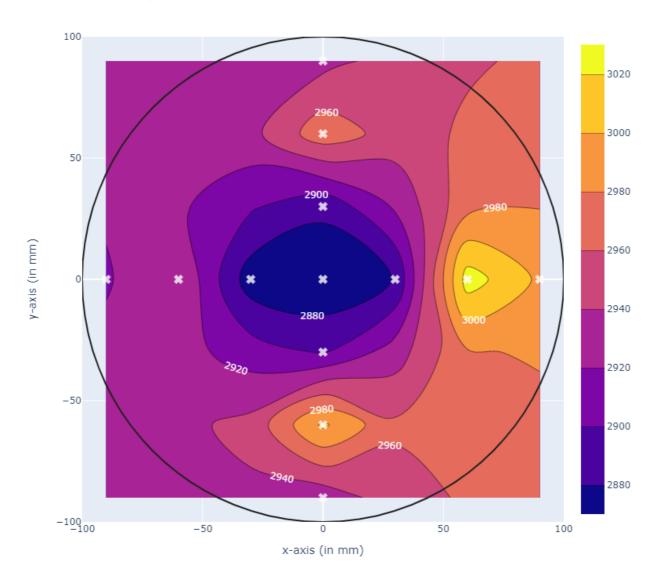






Al ER Contour plot for RUN 4





RUN button

• Click the run.bat file to open/update the charts.

