MS70 (2002.23) -- Leaf from a Gospel Book or New Testament (St. Mark)

analysis date	area	filename	color	particle description	obj.	laser	range	power	acq time	# acquision	gain	observation (during analysis)	notes	filename	final analysis (after processing)
12-May-15	12	TSR_MS70_RM_area12_01	flesh	red particle	L50x	785	50-2500	0.5	10	1	high	vermilion		TSR_MS70_RM_area12_01	vermilion
		TSR_MS70_RM_area12_02		black particle	L50x	785	50-2500	0.5	10	1	high	carbon		TSR_MS70_RM_area12_02	carbon
		TSR_MS70_RM_area12_03		white particle	L50x	785	50-2500	1	10	1	high	1048; lead white + vermilion		TSR_MS70_RM_area12_03	vermilion, lead white, possible carbon
		TSR_MS70_RM_area12_04		black particle	L50x	785	50-2500	1	10	1	high	carbon, vermilion		TSR_MS70_RM_area12_04	vermilion, carbon, lead white, possible ultramarine
		TSR_MS70_RM_area12_05		white particle	L50x	785	50-2500	1	10	1	high	lead white; vermilion		TSR_MS70_RM_area12_05	vermilion, lead white
	5	TSR_MS70_RM_area5_01	exposed bole	pale (white/pale red?)	L50x	785	50-2500	1	10	1	high	lead white		TSR_MS70_RM_area5_01	lead white, unknown peak at 261
		TSR_MS70_RM_area5_02		second pale particle	L50x	785	50-2500	1	10	1	high	nada		TSR_MS70_RM_area5_02	269 unknown peak
		TSR_MS70_RM_area5_03		third pale particle	L50x	785	50-2500	1	10	1	high	lead white		TSR_MS70_RM_area5_03	lead white
	16	TSR_MS70_RM_area16_01	red letter	red area	L50x	785	50-2500	0.5	10	1	low	vermilion	a bunch of things below this say exposed bole in the memo line. All wrong	TSR_MS70_RM_area16_01	vermilion
	1	TSR_MS70_RM_area1_01	white bible	white particle	L50x	785	50-2500	1	10	1	low	lead white		TSR_MS70_RM_area1_01	lead white
		TSR_MS70_RM_area1_02		blue particle	L50x	785	50-2500	1	10	1	high	ultramarine		TSR_MS70_RM_area1_02	lead white, ultramarine
		TSR_MS70_RM_area1_02b		repeat	L50x	785	50-2500	1	20	1	high	ultramarine		TSR_MS70_RM_area1_02b	lead white, ultramarine, possible carbon?
		TSR_MS70_RM_area1_03		black particle	L50x	785	50-2500	1	10	1	high	carbon, lead white		TSR_MS70_RM_area1_03	lead white, carbon
		TSR_MS70_RM_area1_04		blue particle	L50x	785	50-2500	1	10	1	high	ultramarine, lead white		TSR_MS70_RM_area1_04	ultramareine, lead white
	17	TSR_MS70_RM_area17_01	blue border	dark blue particle	L50x	785	50-2500	1	10	1	high	ultramarine, diopside fluor		TSR_MS70_RM_area17_01	ultramarine (w/ diopside fluorescence), lead white
		TSR_MS70_RM_area17_02		bright blue particle	L50x	785	50-2500	1	10	1	high	v. strong diopside fluor, ultramarine		TSR_MS70_RM_area17_02	ultramarine (w/ diopside fluorescence), possible hematite?
		TSR_MS70_RM_area17_03		blue particle	L50x	785	50-2500	1	10	1	high	ultramarine, diopside fluor		TSR_MS70_RM_area17_03	ultramarine (w/ diopside fluorescence)
	11	TSR_MS70_RM_area11_01	blue robe	blue particle	L50x	785	50-2500	1	10	1	high	ultramarine, diopside fluor		TSR_MS70_RM_area11_01	ultramarine (w/ diopside fluorescence)
		TSR_MS70_RM_area11_02		blue particle	L50x	785	50-2500	1	10	1	high	ultramarine, diopside fluor		TSR_MS70_RM_area11_02	ultramarine (w/ diopside fluorescence)
		TSR_MS70_RM_area11_03		dark blue particle, light blue part of robe	L50x	785	50-2500	1	10	1	high	ultramarine, diopside fluor	much more white in this area	TSR_MS70_RM_area11_03	ultramarine (w/ diopside fluorescence), lead white
		TSR_MS70_RM_area11_04		lighter blue area	L50x	785	50-2500	1	10	1	high	ultramarine, diopside fluor, lead white		TSR_MS70_RM_area11_04	ultramarine (w/ diopside fluorescence), lead white
	7	TSR_MS70_RM_area07_01	blue-green border of pedastal	blue particle	L50x	785	50-2500	1	10	1	high	ultramarine		TSR_MS70_RM_area07_01	ultramarine, calcite
		TSR_MS70_RM_area07_02		greener particle	L50x	785	50-2500	1	10	1	high	slight diopside fluor, ultramarine		TSR_MS70_RM_area07_02	ultramarine
		TSR_MS70_RM_area07_03		small brown red particle	L50x	785	50-2500	1	10	1	high	carbon, 453, 410 (iron earth?)		TSR_MS70_RM_area07_03	lead white, carbon, possible hematite?, possible ultramarine?
		TSR_MS70_RM_area07_03b		repeat	L50x	785	50-2000	1	30	1	high	613, 545, 299 --- carbon, hematite, ultramarine		TSR_MS70_RM_area07_03b	lead white, carbon, ultramarine, possible hematite
		TSR_MS70_RM_area07_04		yellow particle	L50x	785	50-2000	1	30	1	high	391, 300, both broad -- goethite?		TSR_MS70_RM_area07_04	possible goethite or megnetite?

analysis date	area	filename	color	particle description	obj.	laser	range	power	acq time	# acquision	gain	observation (during analysis)	notes	filename	final analysis (after processing)
	14	TSR_MS70_RM_area14_01	bottom part of pedestal	dark red particle	L50x	785	50-2000	1	10		1	high	br at 1315; weak at 252 -- carmine and vermilion?		TSR_MS70_RM_area14_01	vermilion, possible carmine?
		TSR_MS70_RM_area14_02		second dark red	L50x	785	50-2000	1	10		1	high	1314, 525, 253 .... Carmine + vermilion, or possible ultramarine?		TSR_MS70_RM_area14_02	vermilion, ultramarine (with diopside fluorescence), lead white
		TSR_MS70_RM_area14_03		dark particle	L50x	785	50-2000	1	10		1	high	weak br at 1313, ultramarine, vermilion?		TSR_MS70_RM_area14_03	ultramarine (with diopside fluorescence), vermilion, trace lead white
8-Dec-15	15	TSR_MS70_RM_area15_01	parchment	white area	L50x	785	50-2000	1	10		1	high	1049 -- lead white	visually, see a few red and black particles	TSR_MS70_RM_area15_01	lead white
		TSR_MS70_RM_area15_02		red particle	L50x	785	50-2000	1	10		1	high	1048 -- lead white; 407, 295 -- Hematite?	saved bitmap	TSR_MS70_RM_area15_02	lead white
		TSR_MS70_RM_area15_02b		repeat	L50x	785	50-2000	1	30		1	high	lead white only	also slightly different focus	TSR_MS70_RM_area15_02b	lead white
		TSR_MS70_RM_area15_02c		repeat	L50x	785	50-2000	1	30		1	high	looks like hematite, carbon, and lead white	also slightly different focus	TSR_MS70_RM_area15_02c	lead white, carbon, hematite
		TSR_MS70_RM_area15_03		white area	L50x	785	50-2000	1	10		1	high	lead white		TSR_MS70_RM_area15_03	lead white
		TSR_MS70_RM_area15_04		black particle	L50x	785	50-2000	1	10		1	high	carbon	memo line is wrong, saved bitmap	TSR_MS70_RM_area15_04	carbon
		TSR_MS70_RM_area15_05		clearish particle	L50x	785	50-2000	1	10		1	high	1050, lead white;		TSR_MS70_RM_area15_05	lead white
		TSR_MS70_RM_area15_06		red particle	L50x	785	50-2000	1	10		1	high	1050, lead white;		TSR_MS70_RM_area15_06	lead white
8-Dec-15	13	TSR_MS70_RM_area13_01	purple footrest	blue particle	L50x	785	50-2000	1	10		1	high	545, 939, 1048 -- ultra, lead white and ?	in general, looks fairly heavily bound, mix of red and blue. saved bitmap	TSR_MS70_RM_area13_01	ultramarine, lead white
		TSR_MS70_RM_area13_01b		repeat	L50x	785	50-2000	1	10		1	high	939 goes away	to see if 939 is real	TSR_MS70_RM_area13_01b	ultramarine (with diopside), lead white
		TSR_MS70_RM_area13_02		red particle	L50x	785	50-2000	1	10		1	high	1050, possible hgs?	saved bitmap	TSR_MS70_RM_area13_02	trace vermilion, lead white, trace diopside (presumably ultramarine)
		TSR_MS70_RM_area13_03		tiny red particle	L50x	785	50-2000	1	10		1	high	1050, 547, 341, 253		TSR_MS70_RM_area13_03	vermilion, lead white, trace ultramarine
		TSR_MS70_RM_area13_03b		repeat	L50x	785	50-2000	1	30		1	high	not much differene		TSR_MS70_RM_area13_03b	vvermilion, lead white
		TSR_MS70_RM_area13_04		tiny red particle	L50x	785	50-2000	1	10		1	high	nice vermilion + lead white		TSR_MS70_RM_area13_04	vermilion, lead white
		TSR_MS70_RM_area13_05		blue particle	L50x	785	50-2000	1	10		1	high	lead white, lapis, vermilion		TSR_MS70_RM_area13_05	vermilion, ultramareine (with diopside), lead white
		TSR_MS70_RM_area13_06		large white particle	L50x	785	50-2000	1	10		1	high	1048, vermilion		TSR_MS70_RM_area13_06	vermilion, lead white, trace ultramarine
		TSR_MS70_RM_area13_07		red globby particle	L50x	785	50-2000	1	10		1	high	trace vermilion, lead white, possible carmine?	saved bitmap	TSR_MS70_RM_area13_07	trace vermilion, trace lead white
		TSR_MS70_RM_area13_08		red area	L50x	785	50-2000	1	10		1	high	1319...possible carmine, trace vermilion		TSR_MS70_RM_area13_08	vermilion, trace lead white
		TSR_MS70_RM_area13_09		yellowish particle	L50x	785	50-2000	1	10		1	high	bump at 1319 only		TSR_MS70_RM_area13_09	unknown
		TSR_MS70_RM_area13_10		red particle	L50x	785	50-2000	1	10		1	high	1050 -- lead white, vermilion	saved bitmap	TSR_MS70_RM_area13_10	vermilion, lead white
		TSR_MS70_RM_area13_11		red particle	L50x	785	50-2000	1	10		1	high	v. weak lead white, trace vermilion	saved bitmap	TSR_MS70_RM_area13_11	vermilion, lead white
		TSR_MS70_RM_area13_12		blue particle	L50x	785	50-2000	1	10		1	high	lead white, lapis , trace vermilion		TSR_MS70_RM_area13_12	ultramarine, lead white, calcite (chalk)