Aplicación de la técnica pXRF a un cuadro de san Jerónimo del Museo Diocesano de Huesca¹

Pablo Martín-Ramos* José Antonio Cuchí Oterino* Blas Matas Serrano**

RESUMEN El presente artículo estudia los pigmentos de una pintura que representa a san Jerónimo, conservada en el Museo Diocesano de Huesca, mediante un equipo portátil de fluorescencia de rayos X. Los resultados muestran la presencia de rojo de cinabrio, blanco de plomo, pardos para ocres y negro de huesos. La técnica tiene limitaciones y sería recomendable hacer otros estudios complementarios. La naturaleza de los pigmentos es compatible con la asignación de la obra a los siglos XVI-XVII.

PALABRAS CLAVE Museo Diocesano de Huesca. San Jerónimo. Siglos XVI-XVII. Pigmentos. pXRF.

^{*} Departamento de Ciencias Agrarias y del Medio Natural de la Universidad de Zaragoza. pmr@unizar.es, cuchi@unizar.es

^{**} Graduado en Conservación y Restauración de Bienes Culturales por la ESCRBC de Aragón y colaborador del Museo Diocesano de Huesca. bmatas.escrbca@gmail.com

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ABSTRACT This article studies the pigments of a painting representing Saint Jerome, preserved in the Diocesan Museum of Huesca, using portable X-ray fluorescence equipment. The results show the presence of cinnabar red, lead white, ochre browns and bone black. The technique has limitations and additional investigations are recommended. The nature of the pigments is compatible with attributing the artwork to the 16th-17th centuries.

KEYWORDS Diocesan Museum of Huesca. Saint Jerome. 16th-17th centuries. Pigments. pXRF.

San Jerónimo de Estridión, exégeta de la Biblia cuya vida ha sido glosada por autores como Martino (2008) o MacCulloch (2010), es considerado uno de los padres de la Iglesia. Por esta razón ha sido representado de diversas formas en numerosas obras pictóricas. No hay más que ver los doscientos setenta y dos resultados que presenta bajo este epígrafe el catálogo informático del Museo del Prado (https://museodelprado.es/coleccion).

Muy popular durante el Barroco, este santo ha sido representando formando parte de series de cuatro cuadros individuales con los restantes padres, san Agustín de Hipona, san Ambrosio de Milán y san Gregorio Magno, que fueron ampliamente reproducidas en copias manuales. Por ejemplo, en los fondos del Museo del Prado hay una de esas series procedente de convento de Nuestra Señora de la Soledad de Madrid y fechada hacia 1630. Es anónima y se considera una posible copia italiana de otra de Andrea Sacchi. Hay conjuntos completos en el convento de Santo Domingo de Granada, en el Museo de Bellas Artes de Salamanca, en el Real Seminario de San Carlos Borromeo de Zaragoza y en el Museo Diocesano de Huesca. No es el único cuadro sobre san Jerónimo existente en Huesca, ya que en el Museo Provincial se custodia otro de similar composición, fechado en torno a 1700, considerado también una copia de Sacchi realizada por un autor desconocido.

Sobre la serie del Museo Diocesano de Huesca, Buisán y Villacampa (2005) indican que son cuatro pinturas del estilo de Caravaggio. Se cita como autor de la serie oscense a un autor italiano anónimo del círculo de ese pintor. Gutiérrez Pastor (1994), en el estudio que realizó sobre el cuadro de san Gregorio Magno de esta colección, señala la posibilidad de que el artista estuviera vinculado al ambiente español y cita como hipotética una atribución a Orazio Borgianni (Roma, ca. 1575-1616).

De este conjunto de lienzos del Museo Diocesano de Huesca se ha seleccionado para el presente estudio mediante la técnica de pXRF el cuadro de san Jerónimo. Una de las principales razones es la aparente simplicidad de la paleta utilizada. La técnica pXRF para el estudio de pinturas al óleo es ya un método estándar que se ha utilizado en numerosos trabajos, a escalas micro, meso y macro (Diana, Moioli y Seccaroni, 1998; Ferrero *et alii*, 1999; Neelmeijer *et alii*, 2000; Sarrazin, Chiari y Gailhanou, 2009; Alfeld *et alii*, 2011; Križnar *et alii*, 2011; Alfeld y Janssens, 2015; Sciutto *et alii*, 2017). Recientemente se ha publicado uno realizado con esta técnica para una tela que representa la *Cena de Emaús* que se encuentra también en el Museo Diocesano de Huesca (Matas *et alii*, 2021).

MATERIAL Y MÉTODOS

Métodos analíticos

La presencia de elementos con número atómico igual o superior al del magnesio ha sido elucidada por mediciones realizadas mediante un espectrómetro de rayos X portátil modelo NITON XL3t GOLDD+ de Thermo Fisher (Waltham, Massachusetts, Estados Unidos) empleando el modo de medida *mining*, con tiempos de detección superiores a 120 segundos y una apertura del colimador de 3 milímetros. Los elementos con número atómico inferior al del magnesio (como el carbono, el oxígeno o el sodio), que el equipo no es capaz de discriminar, quedan clasificados como *bal*. La técnica tiene limitaciones en cuestión de profundidad de muestreo en los objetos estudiados y los resultados deben considerarse semicuantitativos.

Los resultados analíticos han sido procesados con el *software* estadístico IBM SPSS Statistics v. 27. Para la matriz de correlación se sustituyeron por ceros los valores inferiores al límite de detección (< LOD).

Muestreo

La selección de los puntos que se iban a analizar se ha realizado de dos maneras: por un lado, se han estudiado puntos dentro de zonas de color uniforme y de los colores más característicos de la obra; por otro, detalles varios, siguiendo el criterio del conservador. Los puntos estudiados se han definido mediante coordenadas cartesianas, en centímetros a partir de la esquina inferior izquierda de la tela (no del marco), que se toma como coordenada (0,0).



Figura 1. La obra y método de medida.

RESULTADOS

Los resultados se muestran al final en la tabla, que presentan los contenidos de los elementos en porcentajes. Como ya se ha señalado, las dos primeras columnas corresponden a las coordenadas X e Y del punto de muestreo. En *bal* se incluyen los elementos con número atómico inferior al del sodio, como el carbono, el oxígeno o el nitrógeno, presentes en forma de óxidos y materia orgánica, por ejemplo en barnices, pigmentos orgánicos y negro de humo.

Por debajo del límite de detección se encuentran bario, antimonio, estaño, paladio, plata, molibdeno, bismuto, selenio y oro. En estado de trazas hallamos los elementos cadmio (solo presente en el color gris oscuro, 44-30,5), niobio (en el color rojo, 75,5-10, y en el fondo negro, 82-87), circonio (en algún marrón, en rojos y en fondo negro), estroncio y rubidio (en marrones, pardo, fondo negro, carnaciones y algún rojo), cinc y cobre (en rojos y marrones, nunca en blancos), níquel (en algún rojo), cobalto (en un blanco, 30-10), cromo (en marrones), y vanadio y titanio (asociados a rojos y marrones, pero no al blanco). La presencia de arsénico es generalizada, aunque los mayores valores se dan en los blancos y en un rojo claro (10-49). El elemento mercurio aparece en los rojos, como trazas en alguna carnación, y en el fondo oscuro, y en algún caso se encuentra asociado con los elementos wolframio y fósforo. El plomo tiene una presencia de pigmentos rojo y blanco). El hierro tiene una distribución generalizada, pero domina en los marrones y también está en los rojos. El manganeso, como muestra la figura 3, está asociado al hierro (con la excepción de un ocre en la calavera).

El calcio se encuentra en todas las muestras, y en algunos puntos domina sobre el plomo. Potasio y aluminio también se encuentran en casi todos los puntos, excepto en los blancos. El fósforo está presente en todos los puntos, pero especialmente en el fondo negro y en los marrones. Hay silicio en todos los puntos estudiados.

Relaciones entre elementos

Las relaciones entre elementos se muestran en la figura 2. Se observan altas correlaciones positivas, cercanas a la unidad, que indican una fuerte asociación entre elementos, y también negativas, que indican exclusión. Estos resultados se presentan en la figura 2, que es una matriz simétrica con respecto a la diagonal (de esquina derecha superior a esquina izquierda inferior). En la mitad superior derecha se presentan las correlaciones visualmente: los colores rojos representan correlaciones positivas, y los azules, negativas. A mayor tamaño del círculo, más alta es la correlación. En la mitad inferior izquierda aparecen las correlaciones numéricas, con el mismo criterio de color.

Se ha realizado también un análisis de componentes principales que no se muestra porque no aporta información relevante.

A modo de ejemplo, la correlación entre arsénico y los elementos vanadio, titanio, calcio y potasio es fuertemente negativa. Es decir, a mayor contenido del primero, menor concentración de los segundos, y viceversa (es decir, son mutuamente excluyentes). Por otro lado, no hay correlación entre azufre y aluminio. Otro caso es el de la alta



Figura 2. Imagen de la matriz de correlación entre elementos. La matriz es simétrica con respecto a la diagonal. Los colores rojos representan correlación positiva; los azules, negativa.

correlación positiva del elemento hierro con los elementos manganeso, cromo, vanadio, titanio y calcio, por lo que se puede pensar que tal vez procedan del mismo pigmento.

Para profundizar en estas asociaciones se presenta la relación del contenido en mercurio con otros cuatro elementos: wolframio, fósforo, azufre y aluminio (figuras 3a-3d). Con el wolframio (figura 3a) la relación es lineal y pasa muy cerca del origen de coordenadas, lo que sugiere que son constituyentes de un mismo compuesto base. Por otra parte, en las figuras 3b y 3c se observa que la relación de mercurio con fósforo y azufre es positiva, pero peor que la anterior. La presencia de fósforo y azufre en ausencia de mercurio (círculos sobre el eje Y en ambos gráficos) indica que hay dos tipos de aporte: uno relacionado con el mercurio y otro independiente del mercurio, pero este último aporte, en vista de la fuerte dispersión mostrada en la figura 2d, no es común para fósforo y azufre (es decir, tienen distinto origen y su presencia no es concurrente).



La asociación de los elementos hierro, manganeso, cromo, vanadio y titanio arriba mencionada es frecuente en algunos minerales. Para el caso particular de la asociación hierro-manganeso, mostrada en la figura 4, su grado de correlación es relativamente alto, salvo en lo que se refiere a la lectura obtenida sobre el color de la calavera.

Las figuras 5a y 5b señalan que existe una relación del azufre con el arsénico y el plomo, pero no es comparable con la información derivada de la figura 5c, que evidencia una muy clara relación entre el plomo y el arsénico, quizás debido a una procedencia común, pues es conocida la existencia de arsénico en las escombreras mineras de plomo (Oyarzun *et alii*, 2011). La relación entre calcio y azufre es inversa, como se ve en la figura 5d, un aspecto sobre el que se profundiza en la discusión.



Figura 4. Relación entre los contenidos de hierro y manganeso.



DISCUSIÓN

A partir de los análisis y de las relaciones entre diversos elementos se puede intentar realizar una asignación a pigmentos y otras aplicaciones.

En primer lugar, parece procedente descartar preparación del lienzo a base de yeso ($CaSO_4 \cdot 2H_2O$). Este mineral, convenientemente cocido y rehidratado, se ha empleado en numerosas obras (Tarquini, Pifferi y Colapietro, 2019). También la presencia de estroncio ha sido señalada como prueba del uso de yeso natural (Franceschi y Locardi, 2014). En nuestro caso, es evidente que hay una distribución general de azufre y calcio, pero, como se observa en la figura 5d, la relación entre calcio y azufre es inversa (e incompatible con el uso del yeso). Quizás se trata de una imprimación en la que interviene el carbonato cálcico como carga, pero esta hipótesis no se puede verificar con la técnica utilizada en este estudio.

La asociación entre mercurio y azufre, observable en la figura 3c, y su presencia en el color rojo brillante son asignables a cinabrio o bermellón (HgS). Como se ve en las figuras 2 y 3a, el mercurio se relaciona con el wolframio, algo que también se observó en el cuadro *Cena de Emaús*, para el que se especula sobre un posible origen del pigmento (Matas *et alii*, 2021). Por otro lado, el hecho de que haya plomo en estos rojos sugiere el posible uso de minio, una mezcla con blanco de plomo o la presencia de este mineral y de cinabrio. Con la técnica espectroscópica empleada no se puede diferenciar el azufre del yeso del azufre del sulfuro de mercurio, amén de la posibilidad de que se hubiera utilizado oropimente (As₂S₃), pigmento amarillo naranja. Dada también la presencia general de fósforo, es posible que se añadiera negro de huesos al pigmento rojo. Por último, no es posible saber si se usó además algún colorante orgánico tipo cochinilla.

El blanco parece ser blanco de plomo, albayalde (2PbCO₃·Pb(OH)₂). La preparación de este pigmento mediante ataque de plomo metálico con vinagre en un recipiente cerrado y parcialmente lleno de materia orgánica es conocida desde la antigüedad, y se describe por ejemplo en Canals y Martí (1796) y en Gettens, Kühn y Chase (1993). Está clara la relación entre plomo y arsénico (figura 5c). Es posible que el arsénico detectado estuviera en la galena origen del plomo metálico, base artificial empleada en la fabricación del pigmento.

El color oscuro parece de origen orgánico, tipo negro de hueso, dado el contenido en fósforo. Históricamente se han utilizado muchos pigmentos de color negro. En Palomino (1797) y Spring, Grout y White (2003) se describen diversos pigmentos negros, como hollines de combustión de sustancias diversas, tierras negras, escorias e incluso pizarra machada, pirolusita o lignito. Es posible, por tanto, que haya otros compuestos en el fondo negro.

Para los marrones se puede pensar en ocres de oxihidróxidos de hierro, con un relativamente alto contenido en manganeso, tal vez *tierra de Umbría*. Carnaciones y barba son más complejas; parecen una mezcla de blanco de plomo y ocre, dada la presencia de hierro.

La existencia de cloruros es generalizada, al igual que sucedía en la ya mencionada *Cena de Emaús*. Dado que el cobre solo se ha detectado a nivel de trazas, parece difícil asociarlo a un pigmento con este elemento, bastante utilizado en el siglo XVII (Favaro *et alii*, 2005). Pudo haberse usado sal marina como secante o mordiente, aunque también se puede pensar en una contaminación por eflorescencias.

Es interesante también la ausencia de algunos elementos. No hay estaño, elemento frecuente en pigmentos amarillos en forma de estannatos de plomo, solos o en combinación con óxidos de antimonio. La ausencia de antimonio descarta la presencia de amarillo Nápoles (pirocloro, Pb₂Sb₂O₇). El blanco de cinc artificial se comenzó a producir a finales del XVIII, aunque parece que se tomó antes de fuentes naturales. Los dos primeros ya se empleaban en los siglos XVI y XVII (Hahn, Oltrogge y Bevers, 2004). Finalmente, hay que señalar la ausencia de cromo, descubierto en 1797 a partir de la crocoíta (mineral de cromato de plomo que se descubrió unos años antes en los Urales). Solo a inicios del XIX se comienza a utilizar el amarillo de cromo.

CONCLUSIONES

A la vista de los resultados obtenidos, resulta evidente que la espectroscopía de fluorescencia de rayos-X resulta insuficiente para caracterizar inequívocamente la naturaleza de los pigmentos utilizados en una obra como la analizada. Sin embargo, y dado su carácter no destructivo, la información que proporciona puede considerarse valiosa como punto de partida a efectos de elucidación: de hecho, aporta evidencias sobre la presencia de bermellón en las zonas de color rojo brillante, de albayalde en los blancos y las carnaciones, de oxihidróxidos de hierro en los marrones y de negro de hueso en las tonalidades oscuras.

La composición de los pigmentos es compatible con la asignación de la obra a los siglos XVI-XVII.

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50	95	amación	nulo cara	<pre>COD</pre>	< LOD	< LOD	< LOD	LOD ^	<pre>LOD</pre>	76.816	001	00ľ	<pre>LOD</pre>	0.017	0.003	< LOD	0.975	< LOD	COD^	LOD ^	3.68	<pre>LOD</pre>	< LOD	< LOD	< LOD	<lod></lod>	3.199	∠LOD	0.012	0.01	0.016	4.24	0.345	0.403	0.275	1.228	0.432	8283	COD^	
82	87	fondo a	tegro pói	, LOD	(LOD	(LOD	· TOD	· DD	· DD	12.377	, LOD	0.002	· TOD	0.025	0.003	(LOD	0.411	· TOD	, LOD	· DD	1.392	· TOD	0.007	0.011	(LOD	· TOD	4.803	0.388	0.022	0.026	0.075	9.68	0.537	0.415	2.313	1.9	0.344	5.263	LOD	1
71	87	fondo	legro 1	COD <	COD <	COD <	COD <	COD <	COD <	70.88	TOD <	LOD	0.003 <	0.028	0.003	COD <	0.415	COD <	TOD <	COD <	1.39	TOD <	0.009	0.009	COD <	TOD <	4.585	0.318	0.016	0.029	0.095	0.071	0.559	0.359	2.438	1.956	0.376	5.671	LOD ×	
48	87	pelo	barba	<pre> </pre>	<pre>< TOD <</pre>	<pre>< TOD <</pre>	<pre>< TOD <</pre>	<pre>< LOD </pre>	<pre>< LOD <</pre>	73.083	× TOD	<pre> (LOD) </pre>	<pre>COD</pre>	0.006	<pre>COD</pre>	<pre>< TOD <</pre>	2.26	<pre>< TOD <</pre>	× TOD	<pre>< LOD </pre>	10.84	<pre>< TOD <</pre>	<pre>COD</pre>	<pre>COD</pre>	<pre>< TOD <</pre>	<pre>< TOD <</pre>	1.094	0.029	LoB	00	LOD	0.685 1	0.055	<pre>LOD</pre>	0.292	0.728	0.501	0.214	COD <	
90	64	piema	ucificado	< LOD <	<lod <<="" td=""><td><lod <<="" td=""><td><lod <<="" td=""><td>¢ T0D</td><td><pre> (LOD) </pre></td><td>83.898</td><td>¢ [0]</td><td>τ COD</td><td><pre> (LOD) </pre></td><td>0.01</td><td><lod <<="" td=""><td><lod <<="" td=""><td>0.155</td><td><lod <<="" td=""><td>0.003</td><td>¢ T0D</td><td>0.521</td><td><pre> TOD </pre></td><td><lod <<="" td=""><td>0.008</td><td><lod <<="" td=""><td><lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod>	<lod <<="" td=""><td><lod <<="" td=""><td>¢ T0D</td><td><pre> (LOD) </pre></td><td>83.898</td><td>¢ [0]</td><td>τ COD</td><td><pre> (LOD) </pre></td><td>0.01</td><td><lod <<="" td=""><td><lod <<="" td=""><td>0.155</td><td><lod <<="" td=""><td>0.003</td><td>¢ T0D</td><td>0.521</td><td><pre> TOD </pre></td><td><lod <<="" td=""><td>0.008</td><td><lod <<="" td=""><td><lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod>	<lod <<="" td=""><td>¢ T0D</td><td><pre> (LOD) </pre></td><td>83.898</td><td>¢ [0]</td><td>τ COD</td><td><pre> (LOD) </pre></td><td>0.01</td><td><lod <<="" td=""><td><lod <<="" td=""><td>0.155</td><td><lod <<="" td=""><td>0.003</td><td>¢ T0D</td><td>0.521</td><td><pre> TOD </pre></td><td><lod <<="" td=""><td>0.008</td><td><lod <<="" td=""><td><lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod>	¢ T0D	<pre> (LOD) </pre>	83.898	¢ [0]	τ COD	<pre> (LOD) </pre>	0.01	<lod <<="" td=""><td><lod <<="" td=""><td>0.155</td><td><lod <<="" td=""><td>0.003</td><td>¢ T0D</td><td>0.521</td><td><pre> TOD </pre></td><td><lod <<="" td=""><td>0.008</td><td><lod <<="" td=""><td><lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod></td></lod></td></lod></td></lod></td></lod></td></lod>	<lod <<="" td=""><td>0.155</td><td><lod <<="" td=""><td>0.003</td><td>¢ T0D</td><td>0.521</td><td><pre> TOD </pre></td><td><lod <<="" td=""><td>0.008</td><td><lod <<="" td=""><td><lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod></td></lod></td></lod></td></lod></td></lod>	0.155	<lod <<="" td=""><td>0.003</td><td>¢ T0D</td><td>0.521</td><td><pre> TOD </pre></td><td><lod <<="" td=""><td>0.008</td><td><lod <<="" td=""><td><lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod></td></lod></td></lod></td></lod>	0.003	¢ T0D	0.521	<pre> TOD </pre>	<lod <<="" td=""><td>0.008</td><td><lod <<="" td=""><td><lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod></td></lod></td></lod>	0.008	<lod <<="" td=""><td><lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod></td></lod>	<lod <<="" td=""><td>2.376</td><td>0.061</td><td>0.014</td><td>0.012 <</td><td>0.072 <</td><td>5.145</td><td>0.496</td><td>0.177 <</td><td>0.701</td><td>1.694</td><td>0.243</td><td>4.052</td><td>¢ LOD</td><td>ć</td></lod>	2.376	0.061	0.014	0.012 <	0.072 <	5.145	0.496	0.177 <	0.701	1.694	0.243	4.052	¢ LOD	ć
72	61	opuc	egro cr	LOD	rod .	LOD	rod .	LOD	LOD	4.582	roD	LOD	LOD	014	.002	rod .	1226	- TOD	002	LOD	.723	roD	rod .	LOD	LOD	roD	567	.166	-00:	10	.052	.834	365	0.16	.122	904	1234	.025	- GD	
4	5	nación fo	o oscura n	- TOD	LOD <	LOD <	LOD <	roD ×	LOD <	5.872 8.	roD	roD	LOD <	.012 0	LOD (LOD <	236 0	LOD <	002	roD ×	839 0	rod <	LOD <	LOD <	LOD <	rod <	579 2	COD	012	.012	.048	211 5	262 0	14	137 1	805 0	0.21 0	.024 3	589 <	
7.5	ज	ación car	ara man	× Q	> 00,	> 00,	> 00,	V Q	> (Q)	415 86	V Q	× Q	> (Q)	005 0	> 00,	> 00,	962 0	> 00,	00	V Q	271 0	> 00,	> 00,	> 00,	> 00,	> 00,	266 2	× Q	0 8	0 8	0	403 3	047 0	0 00'	214 0	772 0	392 (747 4	0	
3	6	anco carr	ris ch	00	1> 00	1> 00	1> 00	1> 00)	1> 00)	.191 83	1> 00	1> 00)	1> 00	003 0.	1> 00	1> 00	812 0.	1> 00	1> 00	1> 00)	469 4.	029 <1	1> 00	1> 00	1> 00	1> 00	477 1.	1> 610	00	 	1V 00	521 0.	043 0.	1> 00	261 0.	565 0.	315 0.	414 7.	108	
82	49	ocre blà	avera		LOD <1	LOD <1	LOD < I		LOD <	8.188 86			LOD <1	.019 0.	.002 <1	LOD <1	.616 0.	LOD <		LOD <	.312 3.	10D	LOD < I	LOD <1	LOD <1		.216 0.	.052 0.	<u>10</u>	<u>2</u>	.054 <1	.641 0.	.438 0.	.279 <i< td=""><td>.872 0.</td><td>.732 0.</td><td>.462 0.</td><td>7.06 6.</td><td>97 0.</td><td>-</td></i<>	.872 0.	.732 0.	.462 0.	7.06 6.	97 0.	-
17	49	ocre	avera ca	LOD <	LOD <	LOD <	LOD <	× (10)	× 100	0.906	× [0]	× TOD	× TOD	00.7 0	LOD 0	LOD <	.095 0	LOD <	× [0]	× TOD ×	871 2	> TOD >	LOD <	LOD <	LOD <	> TOD >	.896 6	.038 0	0000	0 LOD	LOD 0	.649 4	0.076 0	.408 0	.373 0	.092 1	.628 0	1.943	LOD	
e ج	50.5	rojo	ca ca	COD <	LOD <	LOD <	LOD	LOD <	LOD <	2.444 7	LOD <	LOD <	LOD <	LOD C	LOD <	LOD <	.668 2	LOD <	> 606.	LOD <	588 5).265 <	.022	.012 <	roD <	LOD <	.473	0.029	POD V		LOD <	0.63	0.215 0	.381 0	0 1160	.923	0.738	3.667 1	LOD <	
47.5	69	rojo	scuro (LOD <	LOD ×	LOD <	LOD <	LOD <	LOD ×	2.286 7	LOD <	LOD <	.003 <	014 <	.003 <	LOD <	316 1	LOD <	0.256 (LOD ×	961	0105 (LOD (037 (LOD ×	LOD <	2,436 (E0D	LOD <	013 <	> 180.0	1.495	.915 (.381 (0.62 (.427 (.388 (5.206 1	LOD <	
10	49	rojo	claro o	LOD ×	LOD ×	LOD ×	LOD	LOD ×	LOD ×	4.861 8	LOD ×	LOD ×	LOD	LOD	LOD	LOD ×	294	LOD	.655 (LOD ×	1,449 (0.219 (.02	017	LOD ×	LOD	. 186	LOD ×	LOD ×	<u>F0</u>	L0D	0.61	0.126	0.286	.014	.885	0.73	4.012 (LOD <	
88	30.5		P.	roD <	roD ×	LOD <	LOD <	LOD <	LOD ×	7.085 7	LOD <	roD <	LOD ×	LOD <	LOD <	roD ×	1532	LOD <	.816 (LOD ×	1017 2	0.273 (0.024 (023 (LOD <	LOD <	.404	LOD ×	roD <	r0D ×	.032 <	2304	.707 (.447 (178	.057 (1527	0.919 1	LOD <	1
4	30.5	gris	scuro	COD	COD <	LOD <	> 200.	<pre> COD Code Code Code Code Code Code Code Code</pre>	<pre> COD Code Code Code Code Code Code Code Code</pre>	8.564 7	001	00	<pre> COD Code Code Code Code Code Code Code Code</pre>	> 10.0	002	COD <	235 (<pre> FOD FOD FOD FOD FOD FOD FOD FOD FOD FOD</pre>	001	<pre> V COD V COD</pre>	4.64	LOD	LOD	LOD	LOD <	COD	1.08	COD <			L0D	\$239	0.07	L0D	1 8997	1587	0.49	0.206 1	COD <	
32.7	30.5	in	2 2 2	COD <	COD <	COD <	(TOD (COD ×	COD <	3.766 7	COD ×	COD ×	COD <	0.016 (0.003 (COD <	1.62	<pre> FOD For For For For For For For For For For</pre>	<pre> V </pre>	COD ×	5.2.69	> 0.059 <	COD <	COD <	COD <	COD	789.0	> 1027	<u>I</u> OI	<u>I</u>	COD <	2.068	0.056	COD <	787 (374 (0.637	1.952	181.1	
13	30.5	narrón	101101	<pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre>	<pre>< OOT ></pre>	<pre>< OOT ></pre>	<pre>< OOT ></pre>	<pre> </pre>	<pre>< COD </pre>	3.704 7	V COD	× TOD	<pre>< COD </pre>	0.02	0.003	<pre>< OOT ></pre>	0.412	<pre>< COD <</pre>	0.002 <	<pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	1.428	0.035	<pre>< OOT ></pre>	0.013 <	<pre>< OOT ></pre>	<pre>< OOT ></pre>	5.651	0.312	0.021	0.029 <	0.107 <	6.615	0.637	0.519 <	0.883	2.495	0.413	6.693 1	COD	
9.4	30.5	marrón		<pre></pre>	<pre>< TOD </pre>	<pre>< TOD </pre>	<pre>< TOD </pre>	< TOD <	< LOD <	72.07	<pre> TOD </pre>	<pre> TOD </pre>	0.003 <	0.019	0.002	<pre>< TOD </pre>	0.12	<pre>< TOD </pre>	(LOD	< LOD <	0.367	<pre>COD</pre>	<pre>< TOD </pre>	0.015	<pre>< TOD </pre>	< TOD <	4.39	0.309	0.025	0.024	0.17	12.294	1.065	0.489	1.728	3.468	0.317	3.117	COD ×	L L
4.8	30.5	hlanco		<lod <<="" td=""><td><lod <<="" td=""><td><lod <<="" td=""><td><lod <<="" td=""><td>< LOD <</td><td>< LOD <</td><td>74.644</td><td>< LOD <</td><td><pre> - TOD</pre></td><td><lod <<="" td=""><td>0.01</td><td><lod <<="" td=""><td><lod <<="" td=""><td>1.655</td><td>< LOD <</td><td>< LOD <</td><td>< LOD <</td><td>6.885</td><td><lod <<="" td=""><td><lod <<="" td=""><td><lod <<="" td=""><td><lod <<="" td=""><td><pre> </pre> </td><td>0.404</td><td><lod< td=""><td> COD </td><td><lod <</lod </td><td><lod< td=""><td>0.79</td><td><lod< td=""><td>0.251</td><td>0.549</td><td>0.971</td><td>0.594</td><td>13.176</td><td><lod <<="" td=""><td>7/1</td></lod></td></lod<></td></lod<></td></lod<></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod>	<lod <<="" td=""><td><lod <<="" td=""><td><lod <<="" td=""><td>< LOD <</td><td>< LOD <</td><td>74.644</td><td>< LOD <</td><td><pre> - TOD</pre></td><td><lod <<="" td=""><td>0.01</td><td><lod <<="" td=""><td><lod <<="" td=""><td>1.655</td><td>< LOD <</td><td>< LOD <</td><td>< LOD <</td><td>6.885</td><td><lod <<="" td=""><td><lod <<="" td=""><td><lod <<="" td=""><td><lod <<="" td=""><td><pre> </pre> </td><td>0.404</td><td><lod< td=""><td> COD </td><td><lod <</lod </td><td><lod< td=""><td>0.79</td><td><lod< td=""><td>0.251</td><td>0.549</td><td>0.971</td><td>0.594</td><td>13.176</td><td><lod <<="" td=""><td>7/1</td></lod></td></lod<></td></lod<></td></lod<></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod></td></lod>	<lod <<="" td=""><td><lod <<="" td=""><td>< LOD <</td><td>< LOD <</td><td>74.644</td><td>< LOD <</td><td><pre> - 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75.5	10	TOIO	2 2	<lod< td=""><td><lod <<="" td=""><td><lod< td=""><td><lod <<="" td=""><td><pre>COD</pre></td><td><pre>COD </pre></td><td>72.85</td><td><pre>COD</pre></td><td>0.002</td><td>0.003</td><td>0.013</td><td>0.002</td><td><lod <<="" td=""><td>0.117</td><td><lod <<="" td=""><td>0.248</td><td><pre>COD </pre></td><td>0.339</td><td>0.104</td><td><lod <<="" td=""><td>0.032</td><td><lod< td=""><td><lod <<="" td=""><td>2.456</td><td><lod< td=""><td><lod< td=""><td>0.014</td><td>0.166</td><td>9.217</td><td>1.702</td><td>2.726</td><td>0.822</td><td>1.391</td><td>0.465</td><td>7.299</td><td><pre>COD</pre></td><td></td></lod<></td></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod></td></lod></td></lod<></td></lod></td></lod<>	<lod <<="" td=""><td><lod< td=""><td><lod <<="" td=""><td><pre>COD</pre></td><td><pre>COD </pre></td><td>72.85</td><td><pre>COD</pre></td><td>0.002</td><td>0.003</td><td>0.013</td><td>0.002</td><td><lod <<="" td=""><td>0.117</td><td><lod <<="" 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td=""><td>0.117</td><td><lod <<="" td=""><td>0.248</td><td><pre>COD </pre></td><td>0.339</td><td>0.104</td><td><lod <<="" td=""><td>0.032</td><td><lod< td=""><td><lod <<="" td=""><td>2.456</td><td><lod< td=""><td><lod< td=""><td>0.014</td><td>0.166</td><td>9.217</td><td>1.702</td><td>2.726</td><td>0.822</td><td>1.391</td><td>0.465</td><td>7.299</td><td><pre>COD</pre></td><td></td></lod<></td></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod>	0.117	<lod <<="" td=""><td>0.248</td><td><pre>COD </pre></td><td>0.339</td><td>0.104</td><td><lod <<="" td=""><td>0.032</td><td><lod< td=""><td><lod <<="" td=""><td>2.456</td><td><lod< td=""><td><lod< td=""><td>0.014</td><td>0.166</td><td>9.217</td><td>1.702</td><td>2.726</td><td>0.822</td><td>1.391</td><td>0.465</td><td>7.299</td><td><pre>COD</pre></td><td></td></lod<></td></lod<></td></lod></td></lod<></td></lod></td></lod>	0.248	<pre>COD </pre>	0.339	0.104	<lod <<="" td=""><td>0.032</td><td><lod< td=""><td><lod <<="" td=""><td>2.456</td><td><lod< td=""><td><lod< td=""><td>0.014</td><td>0.166</td><td>9.217</td><td>1.702</td><td>2.726</td><td>0.822</td><td>1.391</td><td>0.465</td><td>7.299</td><td><pre>COD</pre></td><td></td></lod<></td></lod<></td></lod></td></lod<></td></lod>	0.032	<lod< td=""><td><lod <<="" td=""><td>2.456</td><td><lod< td=""><td><lod< td=""><td>0.014</td><td>0.166</td><td>9.217</td><td>1.702</td><td>2.726</td><td>0.822</td><td>1.391</td><td>0.465</td><td>7.299</td><td><pre>COD</pre></td><td></td></lod<></td></lod<></td></lod></td></lod<>	<lod <<="" td=""><td>2.456</td><td><lod< td=""><td><lod< td=""><td>0.014</td><td>0.166</td><td>9.217</td><td>1.702</td><td>2.726</td><td>0.822</td><td>1.391</td><td>0.465</td><td>7.299</td><td><pre>COD</pre></td><td></td></lod<></td></lod<></td></lod>	2.456	<lod< td=""><td><lod< td=""><td>0.014</td><td>0.166</td><td>9.217</td><td>1.702</td><td>2.726</td><td>0.822</td><td>1.391</td><td>0.465</td><td>7.299</td><td><pre>COD</pre></td><td></td></lod<></td></lod<>	<lod< td=""><td>0.014</td><td>0.166</td><td>9.217</td><td>1.702</td><td>2.726</td><td>0.822</td><td>1.391</td><td>0.465</td><td>7.299</td><td><pre>COD</pre></td><td></td></lod<>	0.014	0.166	9.217	1.702	2.726	0.822	1.391	0.465	7.299	<pre>COD</pre>	
53,8	10	TOIO	2 2	<lod< td=""><td><lod <<="" td=""><td><lod< td=""><td><lod <<="" td=""><td><pre>COD </pre></td><td><pre>COD </pre></td><td>78.335</td><td><pre>COD</pre></td><td><pre>COD</pre></td><td>0.002</td><td>0.005</td><td>0.002</td><td><lod <<="" td=""><td>0.209</td><td><lod <<="" td=""><td>0.473</td><td><pre>COD </pre></td><td>0.596</td><td>0.143</td><td>0.024</td><td>0.033</td><td><lod< td=""><td><lod <<="" td=""><td>1.913</td><td><lod <</lod </td><td><lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod></td></lod<></td></lod></td></lod<>	<lod <<="" td=""><td><lod< td=""><td><lod <<="" td=""><td><pre>COD </pre></td><td><pre>COD </pre></td><td>78.335</td><td><pre>COD</pre></td><td><pre>COD</pre></td><td>0.002</td><td>0.005</td><td>0.002</td><td><lod <<="" td=""><td>0.209</td><td><lod <<="" td=""><td>0.473</td><td><pre>COD </pre></td><td>0.596</td><td>0.143</td><td>0.024</td><td>0.033</td><td><lod< td=""><td><lod <<="" td=""><td>1.913</td><td><lod <</lod </td><td><lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod></td></lod<></td></lod>	<lod< td=""><td><lod <<="" td=""><td><pre>COD </pre></td><td><pre>COD </pre></td><td>78.335</td><td><pre>COD</pre></td><td><pre>COD</pre></td><td>0.002</td><td>0.005</td><td>0.002</td><td><lod <<="" td=""><td>0.209</td><td><lod <<="" td=""><td>0.473</td><td><pre>COD </pre></td><td>0.596</td><td>0.143</td><td>0.024</td><td>0.033</td><td><lod< td=""><td><lod <<="" td=""><td>1.913</td><td><lod <</lod </td><td><lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod></td></lod<>	<lod <<="" td=""><td><pre>COD </pre></td><td><pre>COD </pre></td><td>78.335</td><td><pre>COD</pre></td><td><pre>COD</pre></td><td>0.002</td><td>0.005</td><td>0.002</td><td><lod <<="" td=""><td>0.209</td><td><lod <<="" td=""><td>0.473</td><td><pre>COD </pre></td><td>0.596</td><td>0.143</td><td>0.024</td><td>0.033</td><td><lod< td=""><td><lod <<="" td=""><td>1.913</td><td><lod <</lod </td><td><lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<></td></lod></td></lod<></td></lod></td></lod></td></lod>	<pre>COD </pre>	<pre>COD </pre>	78.335	<pre>COD</pre>	<pre>COD</pre>	0.002	0.005	0.002	<lod <<="" td=""><td>0.209</td><td><lod <<="" td=""><td>0.473</td><td><pre>COD </pre></td><td>0.596</td><td>0.143</td><td>0.024</td><td>0.033</td><td><lod< td=""><td><lod <<="" td=""><td>1.913</td><td><lod <</lod </td><td><lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<></td></lod></td></lod<></td></lod></td></lod>	0.209	<lod <<="" td=""><td>0.473</td><td><pre>COD </pre></td><td>0.596</td><td>0.143</td><td>0.024</td><td>0.033</td><td><lod< td=""><td><lod <<="" td=""><td>1.913</td><td><lod <</lod </td><td><lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<></td></lod></td></lod<></td></lod>	0.473	<pre>COD </pre>	0.596	0.143	0.024	0.033	<lod< td=""><td><lod <<="" td=""><td>1.913</td><td><lod <</lod </td><td><lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<></td></lod></td></lod<>	<lod <<="" td=""><td>1.913</td><td><lod <</lod </td><td><lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<></td></lod>	1.913	<lod <</lod 	<lod< td=""><td>0.012</td><td>0.072</td><td>4.934</td><td>1.136</td><td>2.412</td><td>0.762</td><td>1.14</td><td>0.31</td><td>7.467</td><td><pre>COD</pre></td><td>1</td></lod<>	0.012	0.072	4.934	1.136	2.412	0.762	1.14	0.31	7.467	<pre>COD</pre>	1
45	10	blanco	gris	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <<="" td=""><td>72.252</td><td><lod< td=""><td><lod <<="" td=""><td><lod <<="" td=""><td>0.014</td><td>0.004</td><td><lod< td=""><td>1.546</td><td><lod< td=""><td><lod< td=""><td><lod <<="" td=""><td>5.813</td><td>0.049</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.759</td><td>0.027</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.637</td><td>0.043</td><td>0.268</td><td>0.688</td><td>1.124</td><td>0.762</td><td>14.064</td><td><lod <<="" td=""><td>•</td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod></td></lod<></td></lod<></td></lod<></td></lod></td></lod></td></lod<></td></lod></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <<="" td=""><td>72.252</td><td><lod< td=""><td><lod <<="" td=""><td><lod <<="" 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Datos analiticos obtenidos mediante pXRF de puntos singulares en cuadro de san Jerónimo del Museo Diocesano de Huesca. Datos por elementos en porcentajes. Bal: elementos ligeros en conjunto. < LOD: por debajo de limite de detección.

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