

# Match! Phase Analysis Report

Sample: MZ - LDH

## Sample Data

File name MZ - LDH.dat  
File path D:/XRD Data/salem/29 June 2026/Set 2/MZ - LDH  
Data collected 29/06/2026 16:00:22  
Data range 4.497° - 109.906°  
Original data range 0.115° - 119.832°  
Number of points 3537  
Orig. number of points 4017  
Step size 0.030  
Rietveld refinement converged No  
Alpha2 subtracted No  
Background subtr. No  
Data smoothed No  
Radiation X-rays  
Wavelength 1.541874 Å

## Peak List

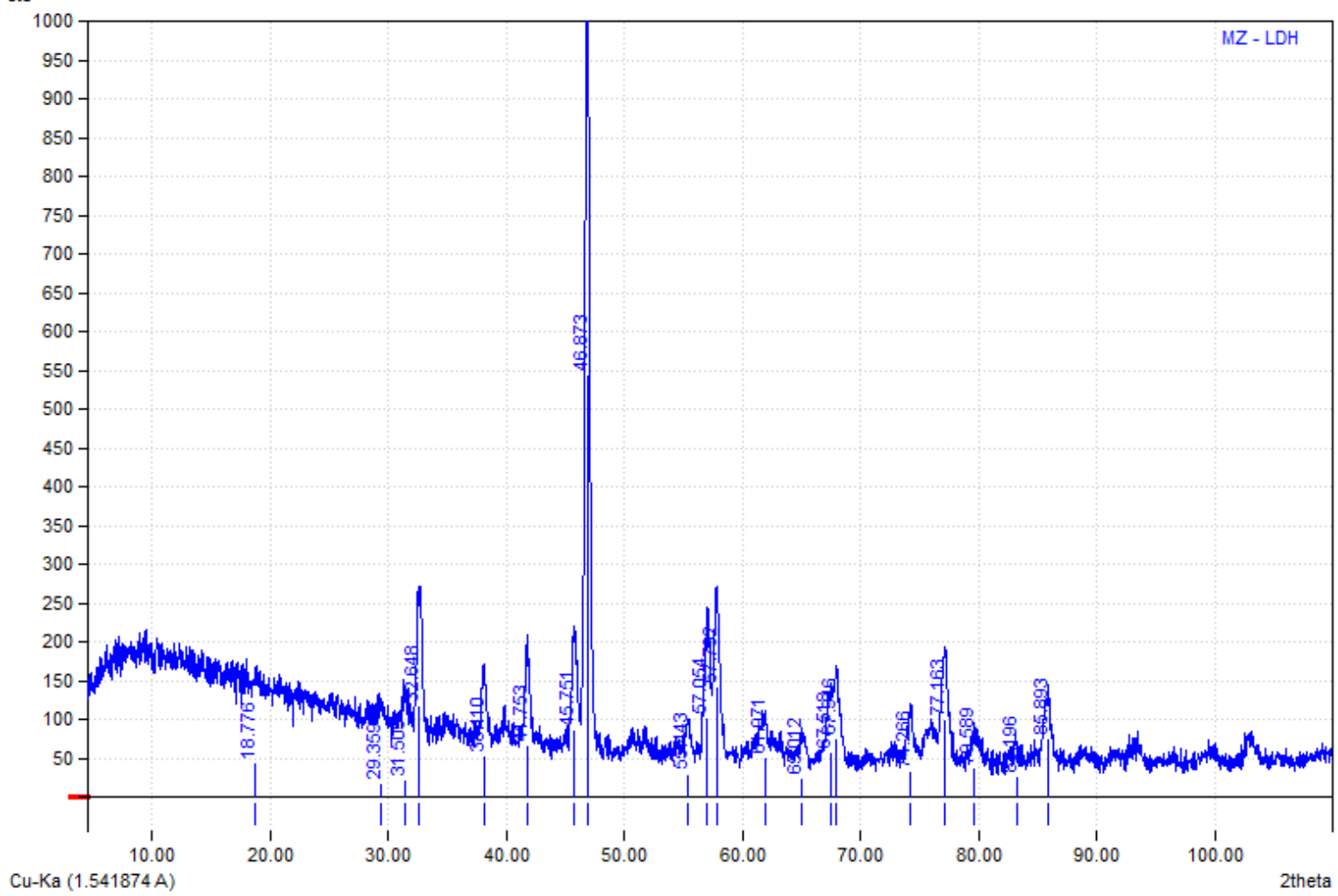
No.	2theta [°]	d [Å]	I/I0 (peak height)	Counts (peak area)	FWHM
1	18.78	4.7261	18.40	43.15	1.5604
2	29.36	3.0422	23.23	16.09	0.4606
3	31.51	2.8397	32.01	20.73	0.4308
4	32.65	2.7429	165.35	116.74	0.4696
5	38.11	2.3614	78.13	53.32	0.4540
6	41.75	2.1634	108.18	65.41	0.4022
7	45.75	1.9832	117.68	85.30	0.4822
8	46.87	1.9383	1000.00	544.15	0.3620
9	55.44	1.6573	37.81	29.08	0.5116
10	57.05	1.6143	145.57	101.59	0.4642
11	57.79	1.5954	178.12	140.60	0.5251
12	61.97	1.4975	27.78	49.58	1.1872
13	65.01	1.4346	25.70	23.47	0.6076
14	67.52	1.3873	43.97	56.59	0.8560
15	67.95	1.3796	64.22	73.93	0.7658
16	74.27	1.2771	48.06	32.19	0.4454
17	77.16	1.2362	112.97	97.90	0.5765
18	79.59	1.2045	30.69	35.85	0.7769
19	83.20	1.1612	20.44	25.89	0.8427
20	85.89	1.1315	73.34	73.53	0.6669

## Integrated Profile Areas

### Based on calculated profile

Profile area	Counts	Amount
Overall diffraction profile	338578	100.00%
Background radiation	269409	79.57%
Diffraction peaks	69170	20.43%
Peak area belonging to selected phases	0	0.00%
Unidentified peak area	69170	20.43%

## Diffraction Pattern Graphics



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