Automated Image Verification Report

Machine-generated tool report. No human examiner reviewed this file. It is intended as supporting documentation or an appendix to an examination report or affidavit prepared by someone else, not as a standalone examination report. Investigative triage: not courtroom proof and not a sole basis for any automated decision.

Report CV-B1A38D-2700D8 | Issued 2026-07-29T01:30:04Z | Pipeline chronoverify-pipeline-0.1.0 | Method fusion-0.1.0

Verdict: Provenance confirmed

Content Credentials present and valid.

Content Credentials validate as Trusted against a recognized C2PA trust list, so the signer and what they asserted about the image's creation and edits are cryptographically verified.

Decision rule applied. Content Credentials (C2PA) are attached to the file and their signature validated cryptographically against a recognized trust list. This branch is evaluated first and takes priority over every other branch in the rule set.

What this file records, and what we computed

Capture time	2025-09-23T19:47:05 (exif)
Capture location	41.265133, 1.96935 (near Castelldefels, Catalonia, Spain)
Capture device	Apple iPhone 13; saved by 18.6.2
Content Credentials	Present and validated against a recognized trust list.
SHA-256	`eefaa04e4e2fe6d04a0473dc01ac64763281e666fadacf8e54db5cbe898c64cd`
File	JPEG, 4,030 x 2,570 pixels, 678,062 bytes

The first four values are what the file records about itself. Metadata is written by a device or by software and can be edited, so they are claims, not established facts. The SHA-256 and the container facts were computed here from the submitted bytes: hash any copy and compare to confirm it is the same file.

Analyzed image (visual reference)

Visual reference only: a re-encoded rendering, for orientation. The evidence is the original file identified by the SHA-256 above. Printing and rescaling degrade this reproduction, so the digital original is the superior copy.

Page 2 is part of this report *and carries the limitations, the sources of error and the scope of work.*

What this report does and does not say

Results apply to the sample as received. They relate only to the item tested, identified by the SHA-256 above. Received by HTTPS upload and processed in a single automated pass, so the date of receipt, the date of performance and the date of issue are one instant: 2026-07-29T01:30:04Z. The submitter, and any description of what the file shows or where it came from, are self-asserted by the requester and were not independently established. This report is not the whole record of the matter.

ChronoVerify returns investigative triage and risk scoring, not courtroom proof and not a sole basis for any automated action. Pixel-forensic signals are probabilistic and degrade on recompressed or stripped images. A clean result confirms provenance integrity, not that the scene is true.

What this verdict does not mean. It does not establish that the scene depicted is true, that the signer's declarations are correct, or that nothing was changed before the credential was applied.

Sources of error. Every signal used here is a heuristic over file structure and pixel statistics. Recompression, resizing, screenshots and ordinary editing all change those statistics, so a signal can fire on a file nobody edited and can stay silent on a file someone did edit. This report states what the methods applied detected in the bytes submitted, and nothing about what the image depicts.

Signals pointing against this verdict. The rule set weighed these and did not follow them; a reader is entitled to see them.

- noise_dispersion_high: Local noise energy is inconsistent across the frame (dispersion 0.476). Weak signal; unreliable alone.

Scope of work

What this method version examined in this file. Every line is derived from the same signed record as the finding on page 1, so the two cannot disagree. No human examiner reviewed this file.

Checks performed on this file: 7.

- File identification: SHA-256 and SHA-512 computed over the submitted bytes. This is what identifies the item this report describes.
- Content Credentials (C2PA): manifest read and its signature checked cryptographically against a recognized C2PA trust list, including the signer, the signing time and any declared edits.
- EXIF: capture timestamp, device make, model and software, and the presence of GPS coordinates were read and checked against each other for internal contradiction.
- XMP: the packet was read and included in the consistency checks.
- Pixel-level analysis: Error Level Analysis over the frame, reported as mean, maximum and localization, noise dispersion across the frame, JPEG quantization and a last-saved quality estimate.
- Location: the nearest named place was derived from the GPS coordinates the file carries. It reports where the file says it was taken, not where it was taken.
- Fusion: the ordered rule set was evaluated in its published priority order to produce the verdict on page 1.

Checks not performed on this file, and why.

- Pixel-level checks ran on a downscaled working copy (downscaled to 4000x2550 (lanczos)), not the full-resolution original. The file hash, and therefore the identification of the item, still covers the original bytes.

A check that produced no signal is not the same as a check that was skipped. The first is a result; the second is listed above with its reason.

Decision rule and rule set

Applied to this file. Content Credentials (C2PA) are attached to the file and their signature validated cryptographically against a recognized trust list. This branch is evaluated first and takes priority over every other branch in the rule set.

The rule set is evaluated in a fixed priority order: Content Credentials that validate cryptographically, then two or more independent pixel-level indicators, then a metadata self-contradiction, then corroborated metadata, then the default. The ordered rule set is published at chronoverify.com/method. A change to the method version or the pipeline version is a change to the rule, and both are printed in the footer of every page of this report.

Verdict scale

Verdict	Meaning
Provenance confirmed (this report)	The image carries C2PA Content Credentials that validate cryptographically against a recognized trust list, the strongest evidence this check can produce.
Consistent	The file's saved metadata, structure, and pixel statistics are internally consistent and no manipulation signal fired, which supports but cannot prove that the file is an unmodified original.
Inconclusive	The file does not carry enough signal for a stronger finding in either direction, which is common for screenshots, re-saved copies, and images passed through social platforms.
Metadata anomaly	The metadata the file carries contradicts itself, for example an impossible or out-of-order timestamp, which warrants scrutiny of the file's history.
Manipulation indicated	Pixel-level analysis flagged a region inconsistent with a single capture, indicating possible editing that a human should review before drawing any conclusion.

Technical detail

Everything above is derived from what follows. Full parameters and the material needed to check the signature are at the end.

What the file says about itself

Capture time	2025-09-23T19:47:05 (exif)
Device	Apple iPhone 13; saved by 18.6.2
Content Credentials	Present
Verdict code	provenance_confirmed

Signals

Signal	Layer	Direction	Detail
c2pa_valid	provenance	supports_authentic	Content Credentials validated as Trusted: the signing certificate chains to the C2PA Trust List, and any timestamp to the C2PA TSA Trust List. This confirms who signed the manifest and what they asserted about the image's creation and edits.
exif_present	metadata	supports_authentic	EXIF metadata is present and was parsed.
camera_metadata_present	metadata	supports_authentic	Camera make and model are recorded in the metadata.
capture_time_present	metadata	supports_authentic	Embedded capture time: 2025-09-23T19:47:05 (value not independently verified).
gps_present	metadata	supports_authentic	GPS places this near Castelldefels, Catalonia, Spain (location not independently verified).
noise_dispersion_high	pixel	supports_edited	Local noise energy is inconsistent across the frame (dispersion 0.476). Weak signal; unreliable alone.

jpeg_quality_estimate	pixel	neutral	Estimated last-saved JPEG quality ~95. Re-saving is normal.

Integrity substrate (uncontested, reproducible)

Report identifier	CV-B1A38D-2700D8
SHA-256 of file	eefaa04e4e2fe6d04a0473dc01ac64763281e666fadacf8e54db5cbe898c64cd
Format / size	JPEG 4030x2570
Issued (UTC, unsigned)	2026-07-29T01:30:04.557846+00:00
Forensics input	downscaled to 4000x2550 (lanczos)
Method version	fusion-0.1.0
Pipeline version	chronoverify-pipeline-0.1.0
C2PA validator	enabled
Report signature (Ed25519)	cd67c8f8303cbdffa410818385a986361b7ce1a6b8cbd02eb36cb3a732acc1ef c04e9c8b9c6c830a60ff56a716ebf3189659279426de958bb7b6ae0af9283a0c
Signing public key (b64)	WP4tavcYsZn5oCGuv8xg4tLyht+z7O6TvgBUG/2hpQ4=
Signing key fingerprint	959b60f73e94ea3854d24a71dc0eea39b8fdae43547f331c688ec9877602eded
SHA-256 of signed payload	b1a38d2700d8f2c23985a9da468cdd08bc02d49afe816c371c733fd86b6a44f7
Trusted timestamp	applied (RFC 3161 token embedded in this report; verifiable offline)
Timestamp authority (TSA)	https://freetsa.org
Timestamp token time (UTC)	2026-07-29 01:30:04+00:00

The report identifier is the first twelve hexadecimal characters of the SHA-256 of the signed payload, so any holder of this report can recompute it and the same file always yields the same identifier.

Signed payload

Base64 of the exact JSON the signature covers. It is typeset as text, not attached as a file: court e-filing systems reject PDFs that carry embedded attachments, and this report has to survive being filed.

eyJjMnBhIjp7ImFjdGlvbnMiOlsiYzJwYS5vcGVuZWQiLCJjMnBhLndhdGVybWFya2VkIl0sImFpX2RlY2xhcm
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RFC 3161 timestamp token

Base64 of the DER TimeStampToken; its messageImprint is the SHA-256 of the signed payload bytes. Typeset as text for the same reason as the payload above.


```
MIISCwYJKoZIhvcNAQcCoIIR/DCCEfgCAQMxDzANBglghkgBZQMEAgMFADCCAYQGCyqGSIb3DQEJEAEEoIIBcw
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Verify this report independently: (1) recompute the SHA-256 of the analyzed file and confirm it matches the value above; (2) strip whitespace from the Signed payload block and base64-decode it to recover the exact bytes the

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