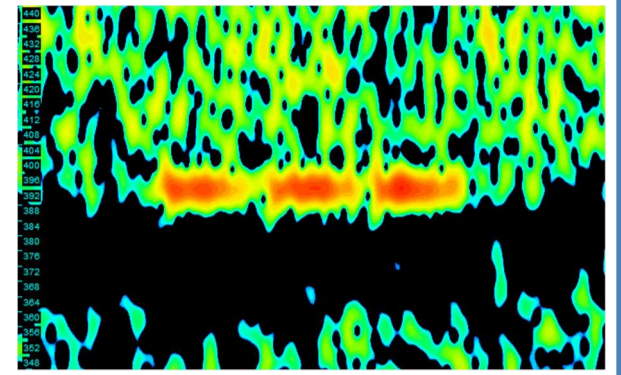


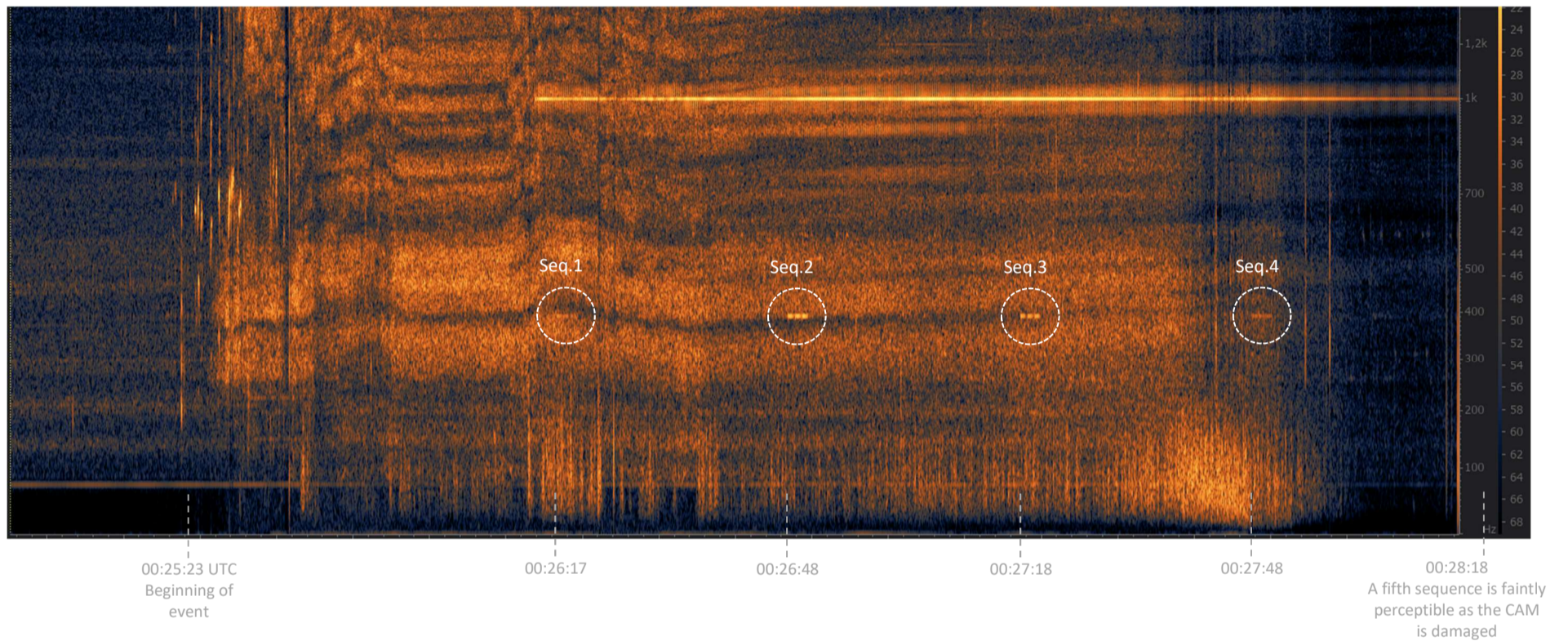
Comparison of noise level of Lavatory smoke warning

As a reminder, the LAVATORY SMOKE warning sounds in the cabin. It consists of an audible signal of a pure frequency of 392 Hz emitted for 440 ms, followed by a silence for the same period (440ms); this sound is repeated three times. It is called a "triple low chime" in the Airbus glossary.

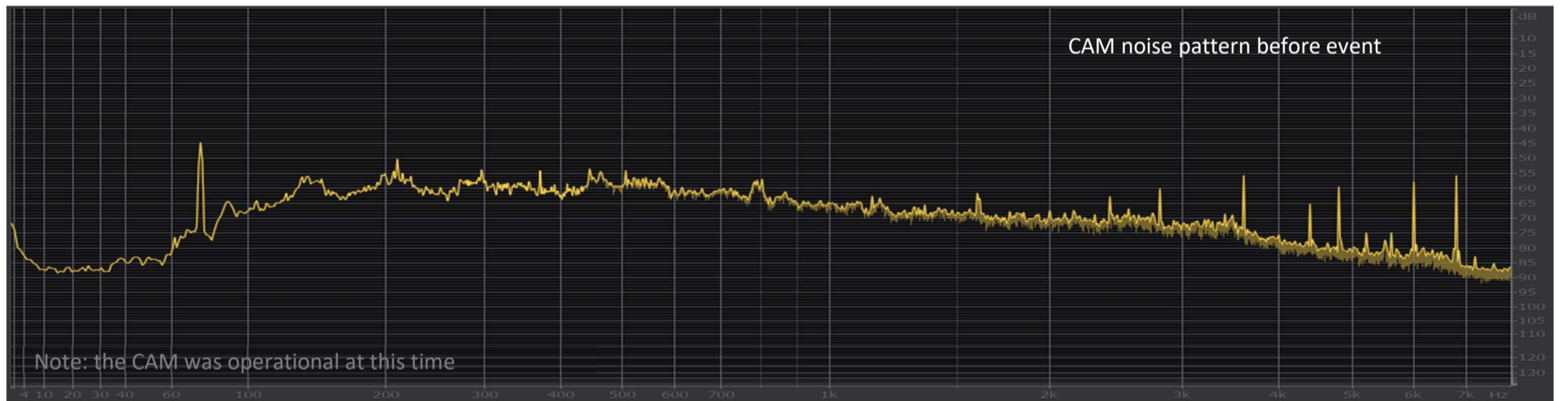
The triple low chime is generated on the cabin loudspeakers every thirty seconds.



View of the Lavatory Smoke warning sequence picked up during the event:

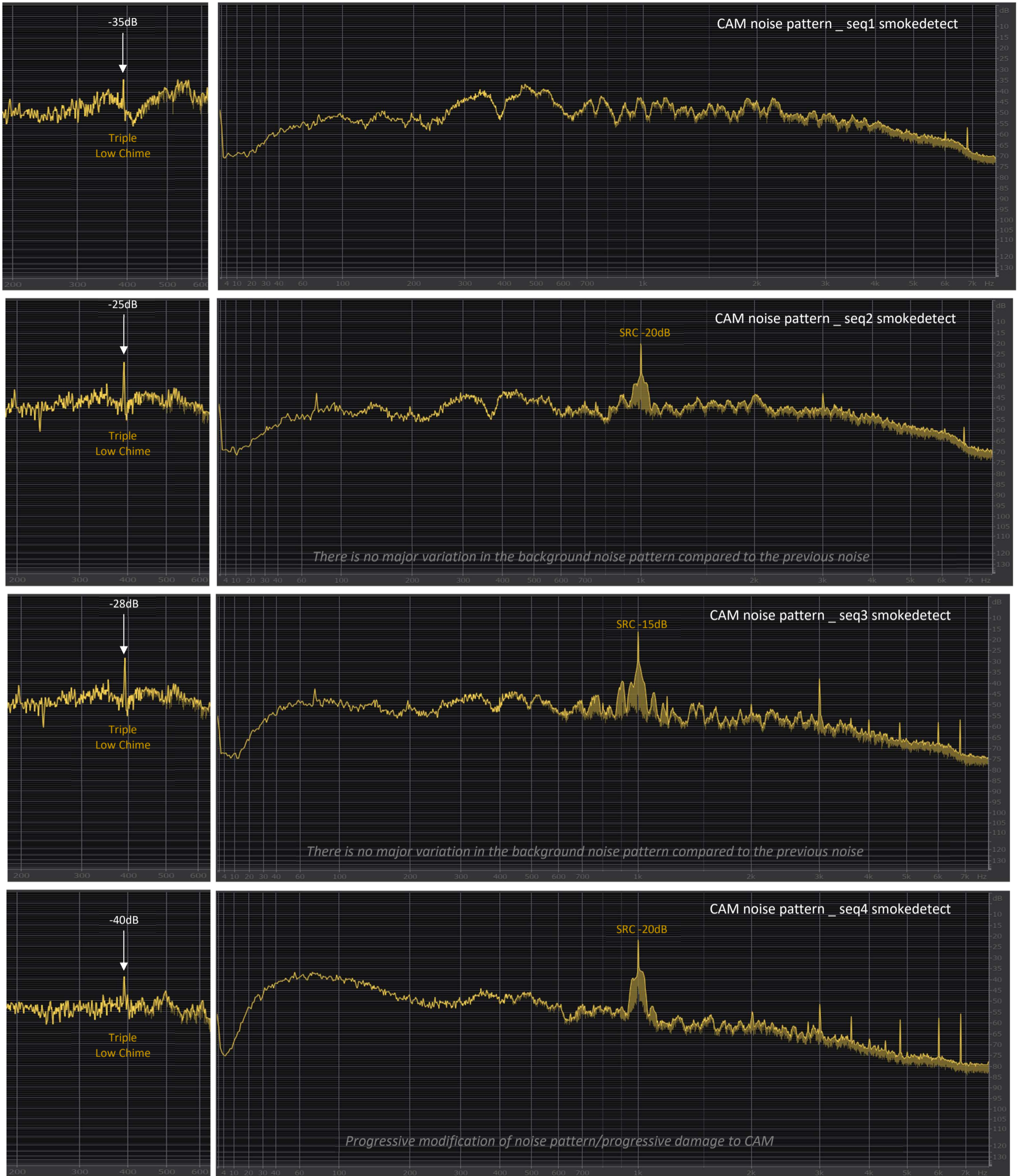


Comparison of the overall noise pattern before and after the event



Note: There is an average dynamic loss of -15 to -20 dB over all of the CAM's bandwidth.

Chronology and pick-up level of "triple low chime" signal via the CAM in the cockpit



Conclusion:

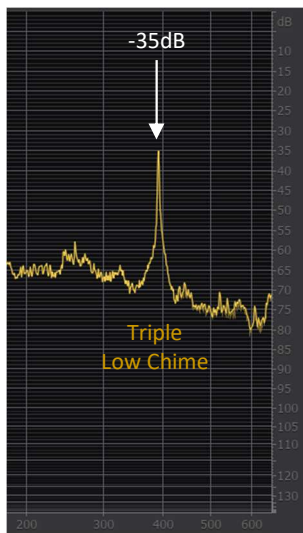
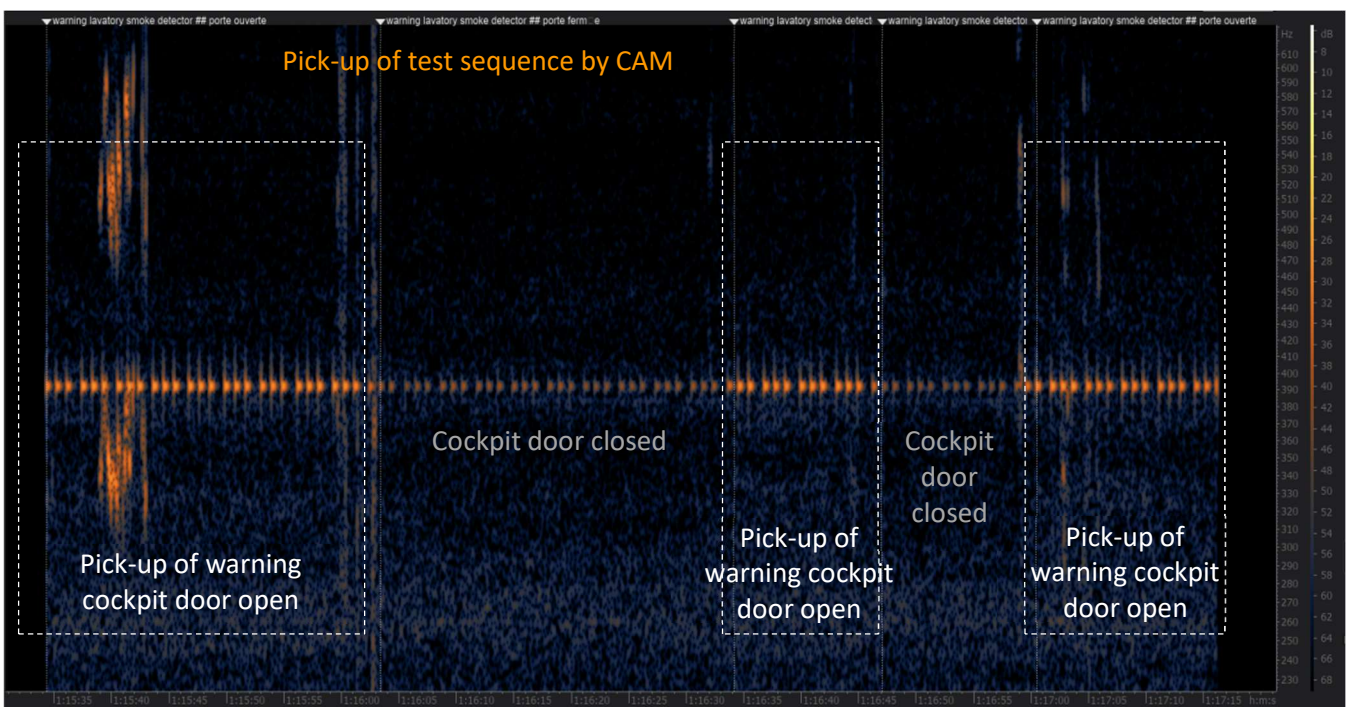
A 10 dB increase in the "triple low chime" signal was measured for sequences 2 and 3 (perceived at 00:26:48 and 00:27:18 UTC). This increase was compatible with the warning being picked up when the cockpit door was open.

De facto, sequences 1 and 4 were probably recorded with the door closed.

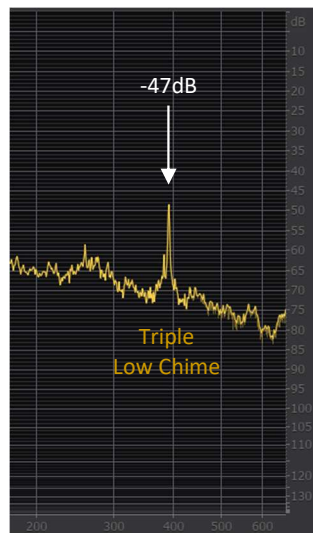
Lavatory Smoke Detector warning emission test carried out on the ground on an Airbus A319



Note: The Lavatory Smoke Detector warning test was activated via the CDIS test page. The "triple low chime" sequence was emitted continuously for the duration of the test.



Cockpit door open



Cockpit door closed

Findings:

The cockpit door masked the warning shown by a reduction in the signal level of the "triple low chime" of -10 to -12 dB.