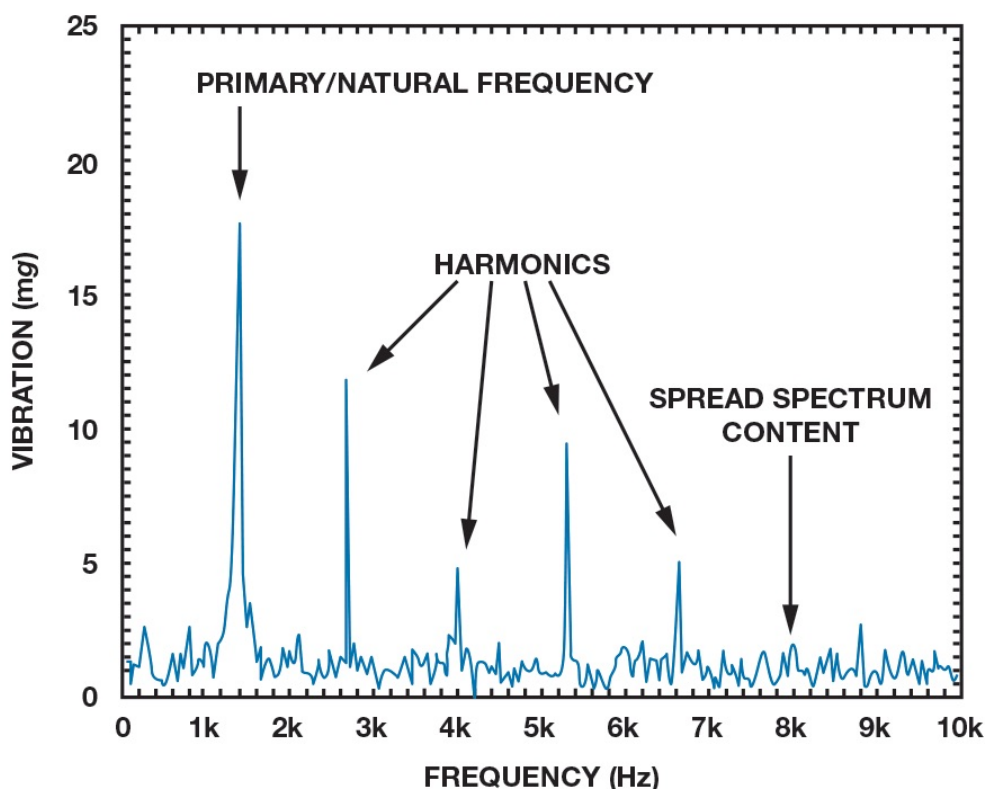


## 8.21 - Signature same as Chord



([click to enlarge](#))

All vibrating and oscillating bodies possess a **signature** or complex series of sub and super **harmonics**, **overtones** or **partials**. These sets (or series) of relative frequencies (constituting its **vibration signature**) are developed according to **law** and arithmetic (addition, subtraction, multiplication and division) and are of two basic types of seemingly opposite qualities - **harmonic** (**concordant**) and **enharmonic** (**discordant**) not in their discrete pitches but in the relationships with the other notes of that series and outside of it. When harmonics are thusly derived from arithmetical methods they are called Summation Tones and **Difference** Tones. Other **Resultant** Tones or harmonics derived arithmetically are "multiples" (times two, squaring or other quantities) and divisions or halves (divided by two, square root or other quantities). Because these signatures are created and governed by basic **laws** of arithmetic they are not accidental or by happenstance. **Keely** used the term "**chord**" in place of our use of the term **vibration signature**. For indeed a collection of relative frequencies or pitches is a **chord** of discrete tones or aliquot parts making up a compound **sound** or complex waveform.

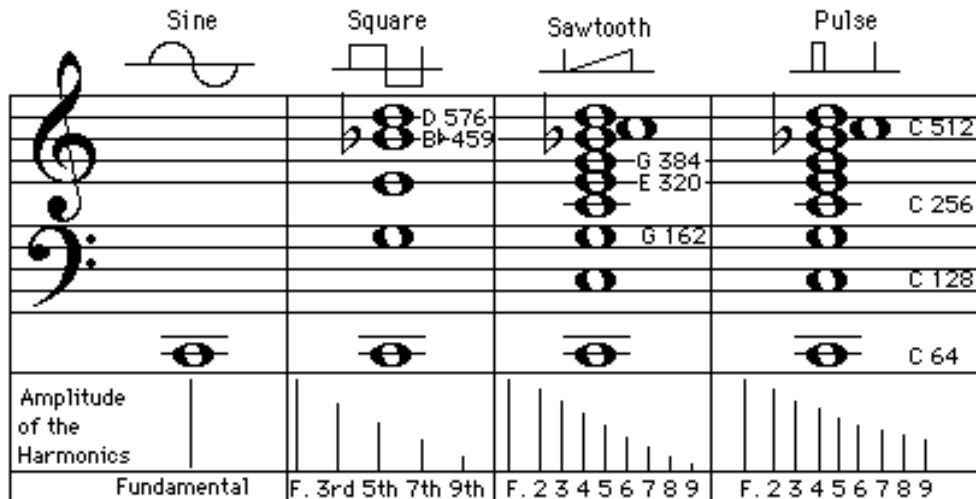
**Chord** - Two, three or more tones sounded together.

**Signature** or **Vibration Signature** - Term usually applied to the vibration frequency **spectrum** of a complex waveform.

In the graphic below are shown these two terms. The squiggly lines at the top are the vibration signatures. (The term **signature** comes from the concept these lines look like a doctor's scrolling signature.) The musical notes below the signatures are the relative and quantitative discrete frequencies making up the complex waveform as recorded in tracings or signatures.

## Wave Form Components - aliquot parts

Diagram showing the component notes (aliquot parts) when merged or synthesized together combine to form the different waveforms pictured above the chart.



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Figure 8.14 - Some Basic Waveforms and their constituent aliquot parts

### Dougald Carmichael Ramsay

"Partials - Harmonics, so called because they are the **parts of a sound**." [Scientific Basis and Build of Music, page 63]

### Schauberger

The outcome of this incessant reciprocal activity on the one hand is the reconstitution of the various kinds of water present in the individual zones, and on the other, the constant transformation of the species of vegetation in which water makes its way, ceaselessly moved by this inner interplay of forces. This inner, energetic interaction, however, is opposed by the effect of the water's weight. The alternating magnitudes of these component forces inevitably lead to the constant rising and falling of the water particles - the so-called pulsation of water. Every new formation and all growth is derived from the smallest beginnings. Continuing development in the early stages can only be accomplished if the circulation in the Earth's interior proceeds correctly. According to inner law, every higher form of vegetation is built up from the lower species preceding it. The carrier of the substances and the transmitter of the life-processes in the root-zone is the groundwater. The impulse for its movement is caused by a drop in temperature, to which the inner metabolic processes of the here decisive groups of basic elements give rise. The impulse for the movement of water is thus a product of the interactions between the opposites contained within it, which find their necessary resistance in the water itself. Through the resistance arising from the interactions between carbone and oxygen, fluctuations in temperature again occur and with them the impulse to move - the pulsation of water, which in this way at times dissolves salts and at others deposits them, transports them, creates energies and transforms them. The sense and purpose of these perpetual transformation processes is the creation and maintenance of the various types of vegetation and physical forms, which on their part again represent the bridges for the build-up and maintenance of the energies. [The Energy Evolution - Harnessing Free Energy from Nature, Conclusions]

See Also

**partial**  
**harmonic waveforms**  
**harmonics**  
**overtone**  
**Table 11.05 - Comparison of Scale Structural Components and Relations**  
**waveform**

See Also

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**Chord of Mass**  
**Chord of the Mass**  
**Chord**  
**Creative Force**  
**Figure 1.1 - Chord Signatures of Brain Convolutions**  
**Fundamental**  
**Harmonic**  
**Laws of Vibration**  
**molecular aggregation**  
**Overtone**  
**Part 12 - Russells Locked Potentials**  
**Polar**  
**Signature**  
**Undertone**  
**Universal Energy Unit**  
**Vibration Signature**