Infringement Claim Chart for the Infringement of Independent Claim 1 of U.S. Patent No. 6,603,343 by Apple

	Claim	Application to USI 339M00104 used in Exemplary Apple iPhone 12 Pro
1(a)	A phase correction circuit for a transistor, comprising:	Arigna makes these contentions based on the information reasonably available at this time. Its investigation is ongoing. Defendant Apple Inc. has not produced documents concerning its infringement of U.S. Patent 6,603,343 (the "'343 Patent"). Claim construction proceedings have not commenced. Invalidity contentions have not been served. Arigna reserves its right to modify, supplement, and/or amend these contentions as additional evidence and information becomes available, including in light of discovery, invalidity contentions, prior art, claim construction, or any information provided by Apple or any other party or nonparty to this action. The Universal Scientific Industrial 339M00104 semiconductor device is a device that enables mobile devices, such as smartphones and tablets, to connect to 5G mobile networks. See, e.g.:  The USI 339M00104 includes within it the HG11-PG660-200 RF die. Defendant Apple makes, uses, sells, offers for sale, and/or imports mobile devices that contain the USI 339M00104. For example, the exemplary Apple iPhone 12 Pro incorporates the USI 339M00104. See, e.g.:

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		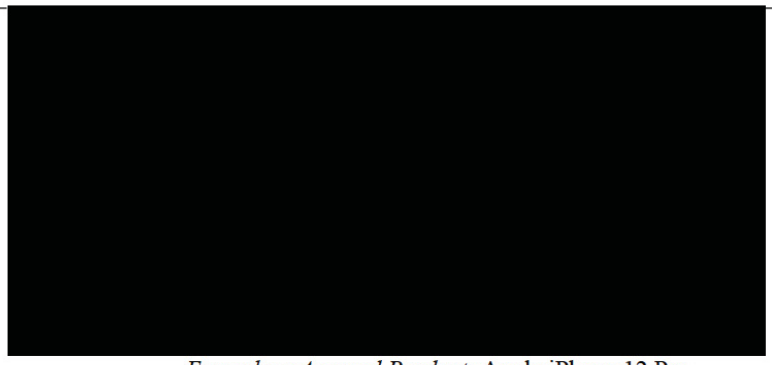 *Exemplary Accused Product:* Apple iPhone 12 Pro Defendant Apple also makes, uses, sells, offers for sale, and/or imports mobile devices that contain the Murata 1XR-484. For example, the Apple iPhone 12 Pro Max incorporates the Murata 1XR-484. See, e.g.:  The Murata 1XR-484 includes within it the HG11-PG660-200 RF die.

		The Apple iPhone 12 Pro is depicted herein as an exemplary device representative of Apple's Accused Products. On information and belief, Apple's other Accused Products, as identified in Arigna's Disclosures pursuant to this Court's November 17, 2021 Standing Order Governing Proceedings – Patent Cases, infringe the '343 Patent in a manner identical or substantially similar to that described below and depicted for the Apple iPhone 12 Pro. These other Accused Products, including the iPhone 12, iPhone 12 Mini, iPhone 12 Pro Max, iPhone 13, iPhone 13 Pro, iPhone 13 mini, and iPhone 13 Pro Max, contain mmWave antenna modules or components including, e.g., the USI 339M00104, Murata 1XR-484, Murata 1V4B, Murata 1V4K, Qualcomm SMR525, Qualcomm SMR526, and/or other mmWave antenna modules or components that, on information and belief, contain an HG11-PG660-200 RF die or substantially similar RF die. As shown in this claim chart, the HG11-PG660-200 RF die infringes claim 1 of the '343 Patent. See *infra*. Because antenna modules or components of the other Apple Accused Products contain the HG11-PG660-200 RF die just as does the USI 339M00104 antenna module in the exemplary Apple iPhone 12 Pro charted herein, or an RF die substantially similar to the HG11-PG660-200 RF die, on information and belief, there are no material differences between the accused instrumentalities that affect Arigna's infringement theories for the other Apple Accused Products not specifically charted herein. The images and circuit diagrams herein are provided to further explain Arigna's infringement theory but are exemplary and not limiting. The absence or incompleteness of an image or circuit diagram, if any, should not be construed as any kind of disclaimer of any infringement by similar or substantially similar functionality.

		As shown in this claim chart, the HG11-PG660-200 RF die in the USI 339M00104 infringes claim 1 of the '343 Patent. See *infra*. To the extent this preamble is considered limiting, the HG11-PG660-200 RF die contains a phase correction circuit for a transistor. For example, the following annotated and exemplary circuit diagram of the HG11-PG660-200 RF die identifies a power amplifier stage (boxed in gold). See, e.g.: 

		The power amplifier stage, as identified above, contains a phase correction circuit for a transistor. The following annotated and exemplary circuit extraction of the power amplifier stage of the HG11-PG660-200 RF die identifies a phase correction circuit (boxed in red) for a transistor (boxed in green). [redacted] 

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