IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE

TQ DELTA, LLC,

.

Plaintiff,

v.

COMCAST CABLE COMMUNICATIONS LLC,

Defendant.

TQ DELTA, LLC,

Plaintiff,

v.

COXCOM LLC and COX COMMUNICATIONS INC.,

Defendants.

TQ DELTA, LLC,

Plaintiff,

v. DIRECTV, LLC,

Defendant.

TQ DELTA, LLC,

Plaintiff,

v.

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DISH NETWORK CORPORATION, DISH NETWORK L.L.C., DISH DBS CORPORATION, ECHOSTAR CORPORATION, AND ECHOSTAR TECHNOLOGIES L.L.C.,

Defendants.

C.A. No. 15-cv-611-RGA

C.A. No. 15-cv-612-RGA

C.A. No. 15-cv-613-RGA

C.A. No. 15-cv-614-RGA

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TQ DELTA, LLC,	
Plaintiff,	
v .	C.A. No. 15-cv-615-RGA
TIME WARNER CABLE INC. and TIME WARNER CABLE ENTERPRISES LLC,	
Defendants.	
TQ DELTA, LLC,	
Plaintiff,	
v.	C.A. No. 15-cv-616-RGA
VERIZON SERVICES CORP.,	
Defendant.	

CLAIM CONSTRUCTION ORDER

The Court has determined that the terms below shall be given the following meaning for

the claims of each identified patent:

U.S. Patent Nos. 8,718,158 and 9,014,243:

- 1. "carrier signal" and "carrier" "signal that can be modulated to carry data"
- "determin[e/ing] a phase shift for the carrier signal" "comput[e/ing] an amount by which the phase of the carrier signal will be shifted"
- "phase scrambler" "component operable to adjust the phases of the carrier signals, by pseudo-randomly varying amounts"
- 4. "scrambling the phase characteristics of the carrier signals" "adjusting the phase characteristics of the carrier signals by pseudo-randomly varying amounts"

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- 5. "transceiver" "communications device capable of transmitting and receiving data wherein the transmitter portion and receiver portion share at least some common circuitry"
- 6. "**multicarrier**" "having multiple carrier signals that are combined to produce a transmission signal"
- 7. "bit scrambler" "component that pseudo-randomly changes the value of a bit"

U.S. Patent Nos. 8,611,404 and 9,094,268:

- "transceiver" "communications device capable of transmitting and receiving data wherein the transmitter portion and receiver portion share at least some common circuitry"
- "multicarrier" "having multiple carrier signals that are combined to produce a transmission signal"
- 10. "low power mode" "state of operation in which power is consumed, but the amount of power consumed is less than when operating in a state with full data transmission capabilities"
- 11. "stor[e/ing], in [a/the] low power mode, at least one parameter" "maintain[ing] in memory, while in low power mode, at least one parameter"
- 12. "wherein the at least one parameter comprises at least one of a fine gain parameter and a bit allocation parameter" - "wherein the at least one parameter includes a fine gain parameter and/or a bit allocation parameter"
- "fine gain parameter" "parameter used to determine power level on a per subcarrier basis"

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- 14. "bit allocation parameter" "parameter used to determine a number of bits to be carried by a subcarrier on a per subcarrier basis"
- 15. "synchronization frame" "frame that indicates a superframe boundary"
- 16. "synchronization signal" ""signal used to establish or maintain a timing relationship between transceivers"
- 17. "apparatus comprising a transceiver operable to" "plain meaning with 'transceiver' as previously construed"
- 18. "data" "content"

U.S. Patent Nos. 7,835,430 and 8,238,412:

- "transceiver" "communications device capable of transmitting and receiving data wherein the transmitter portion and receiver portion share at least some common circuitry"
- 2. "**multicarrier**" "having multiple carrier signals that are combined to produce a transmission signal"
- "[transmitting/receiving] test information over a communication channel" "plain meaning"
- 4. "test information" "information relating to a characteristic of a communication channel or the communications equipment operating on that channel"
- 5. "array representing frequency domain received idle channel noise information" "ordered set of values representative of noise in the frequency domain that was received by a transceiver on respective subchannels in the absence of a transmission signal"
- 6. "array representing power level per subchannel information" "ordered set of values representative of power levels of respective subchannels"

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7. "Reverb signal" - "signal generated by modulating carriers in a multi carrier system with a known pseudo-random sequence to generate a wideband modulated signal"

IT IS SO ORDERED this <u>6</u> day of <u>flcubulu</u>, 2016. <u>fulleed of Manual Constraints</u> The Honorable Richard G. Andrews

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