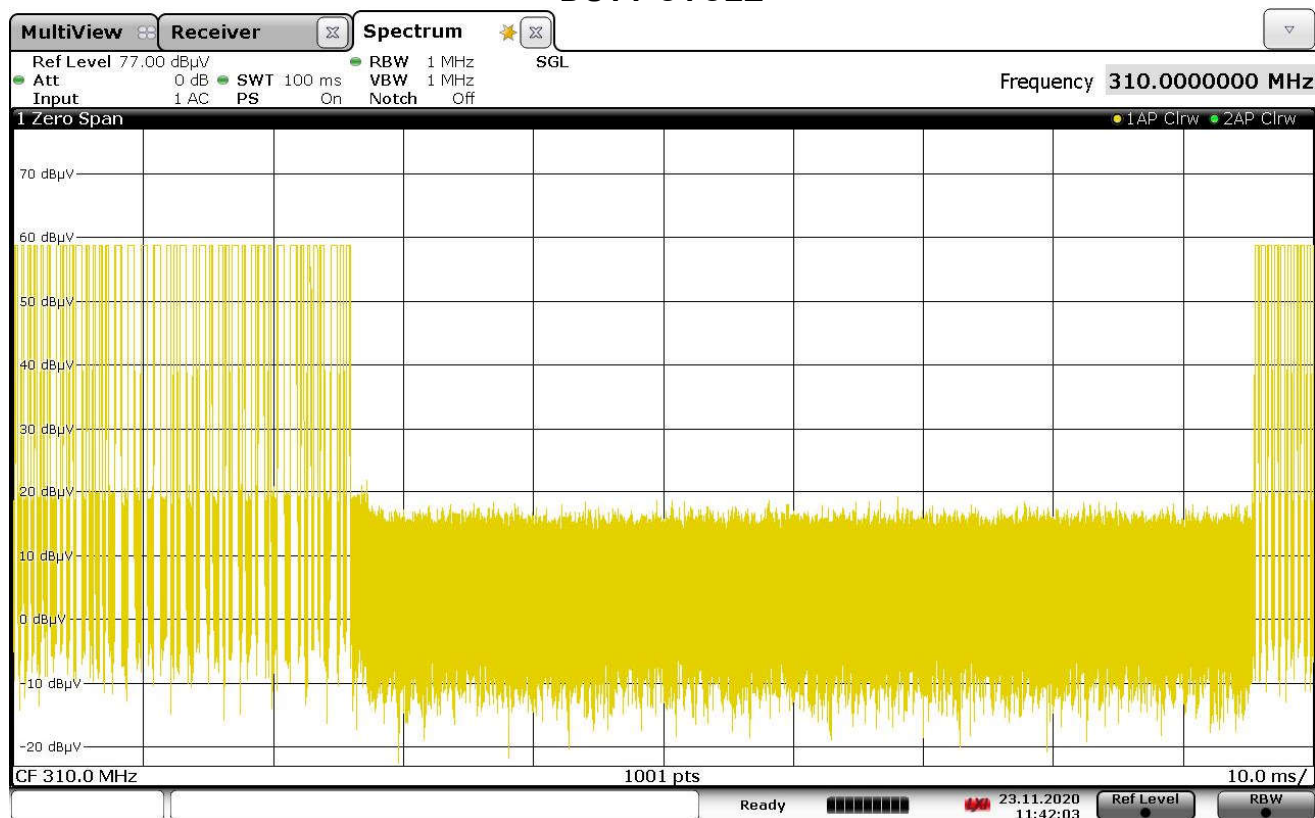


DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	310MHz (E Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $13 \times 0.5\text{ms} = 6.5\text{ms}$ $34 \times 0.25\text{ms} = 8.5\text{ms}$ $6.5 + 8.5 = 15.00\text{ms}$ $D.C = 20\log(15/100) = -16.48\text{dB}$

DUTY CYCLE

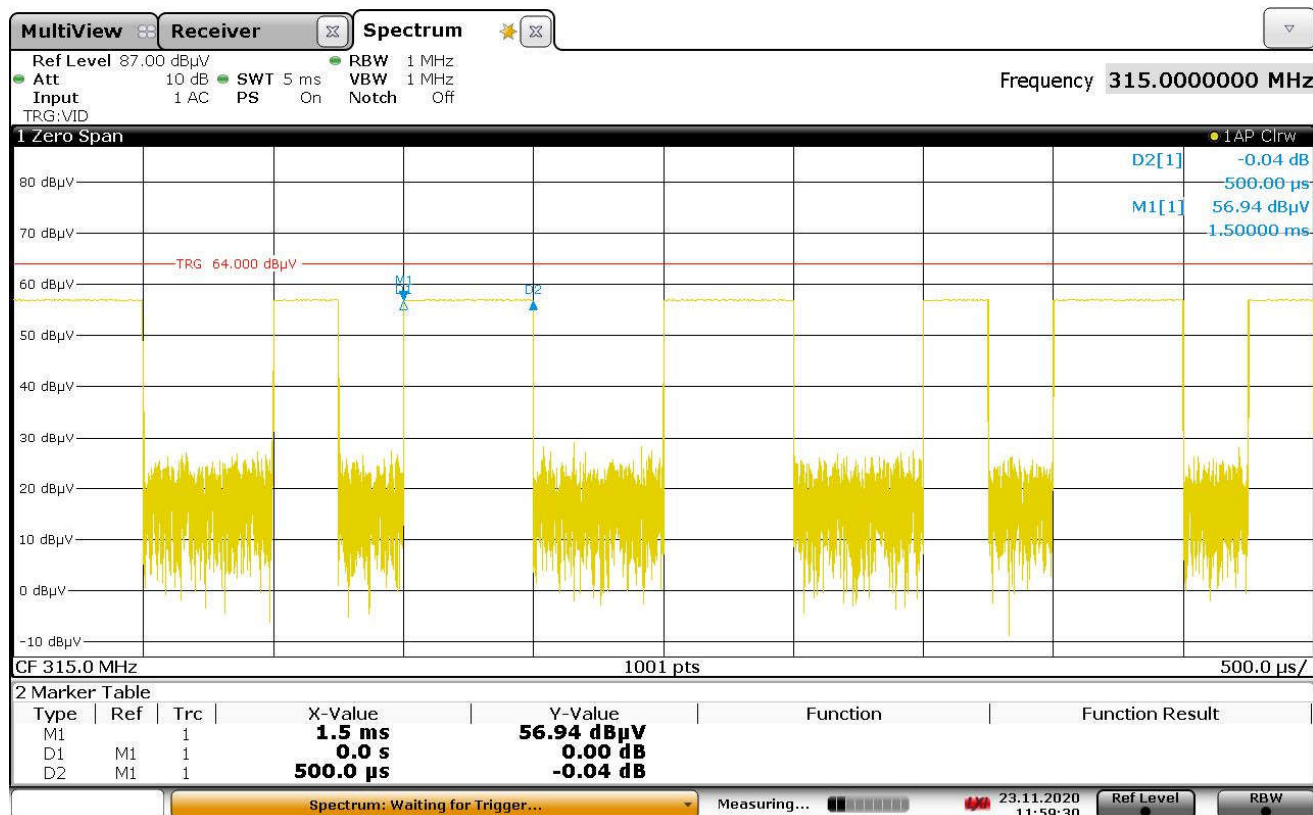


11:42:04 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	315MHz (E Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 500µs = 0.5ms

DUTY CYCLE – WIDE PULSE

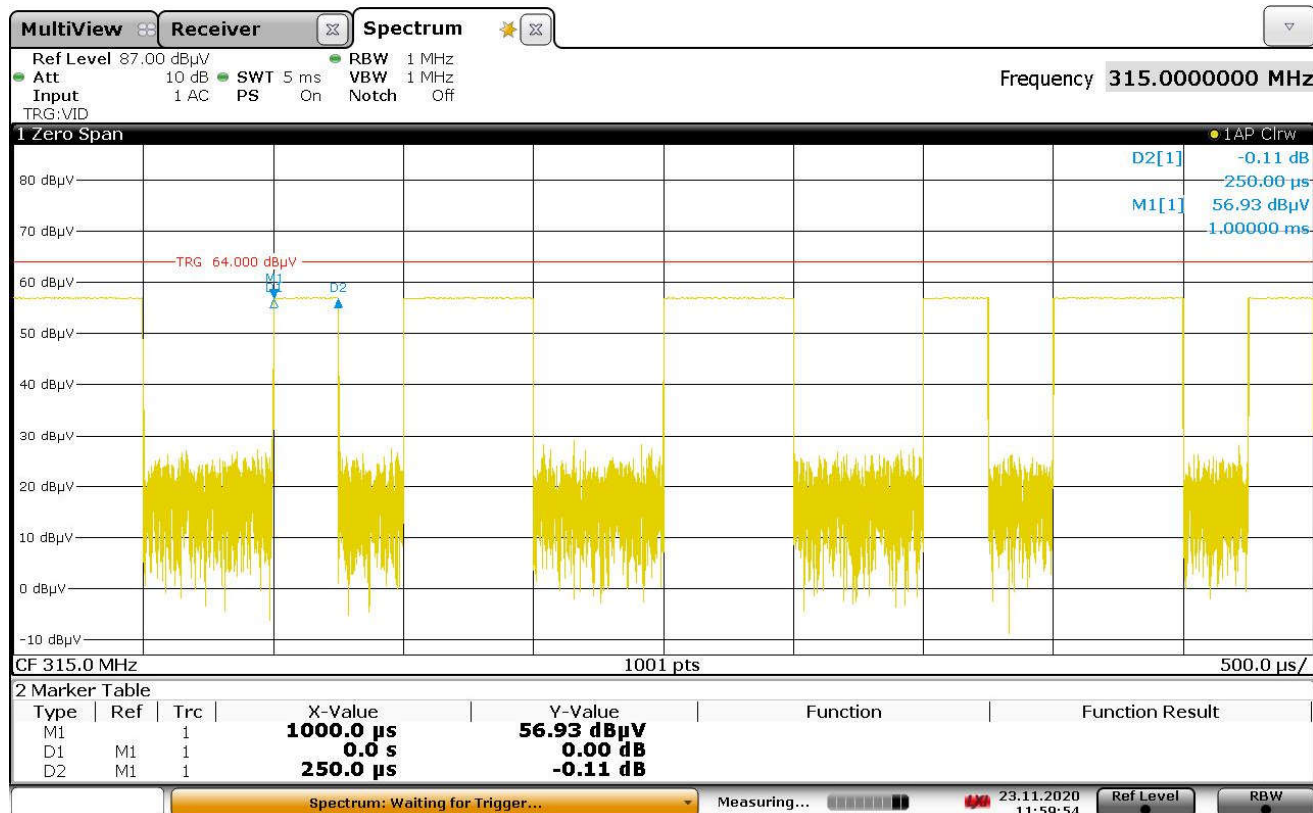


11:59:31 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	315MHz (E Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Narrow Pulse = 250µs = 0.25ms

DUTY CYCLE – NARROW PULSE

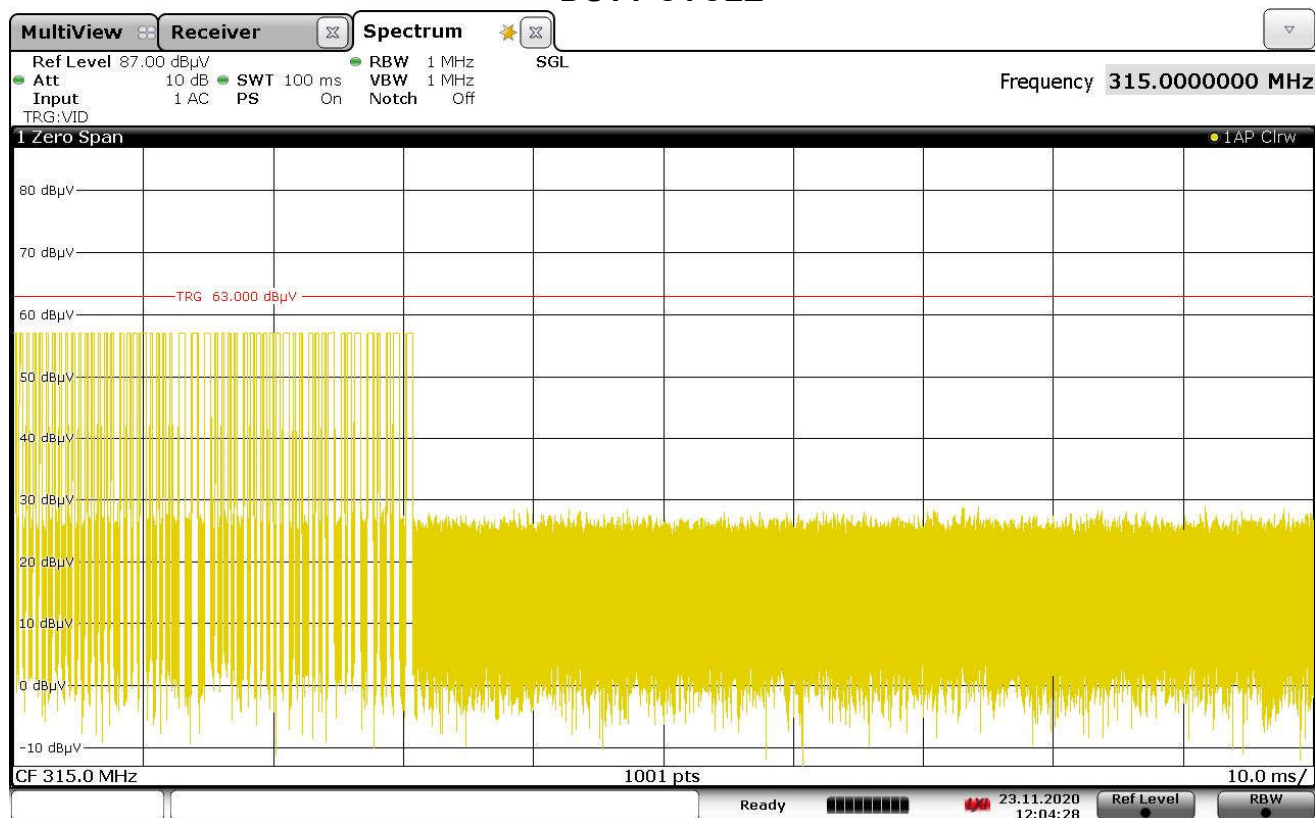


11:59:55 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	315MHz (E Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $10 \times 0.5\text{ms} = 5.0\text{ms}$ $40 \times 0.25\text{ms} = 10.0\text{ms}$ $5.00 + 10.0 = 15.0\text{ms}$ $D.C = 20\log(15/100) = -16.48\text{dB}$

DUTY CYCLE

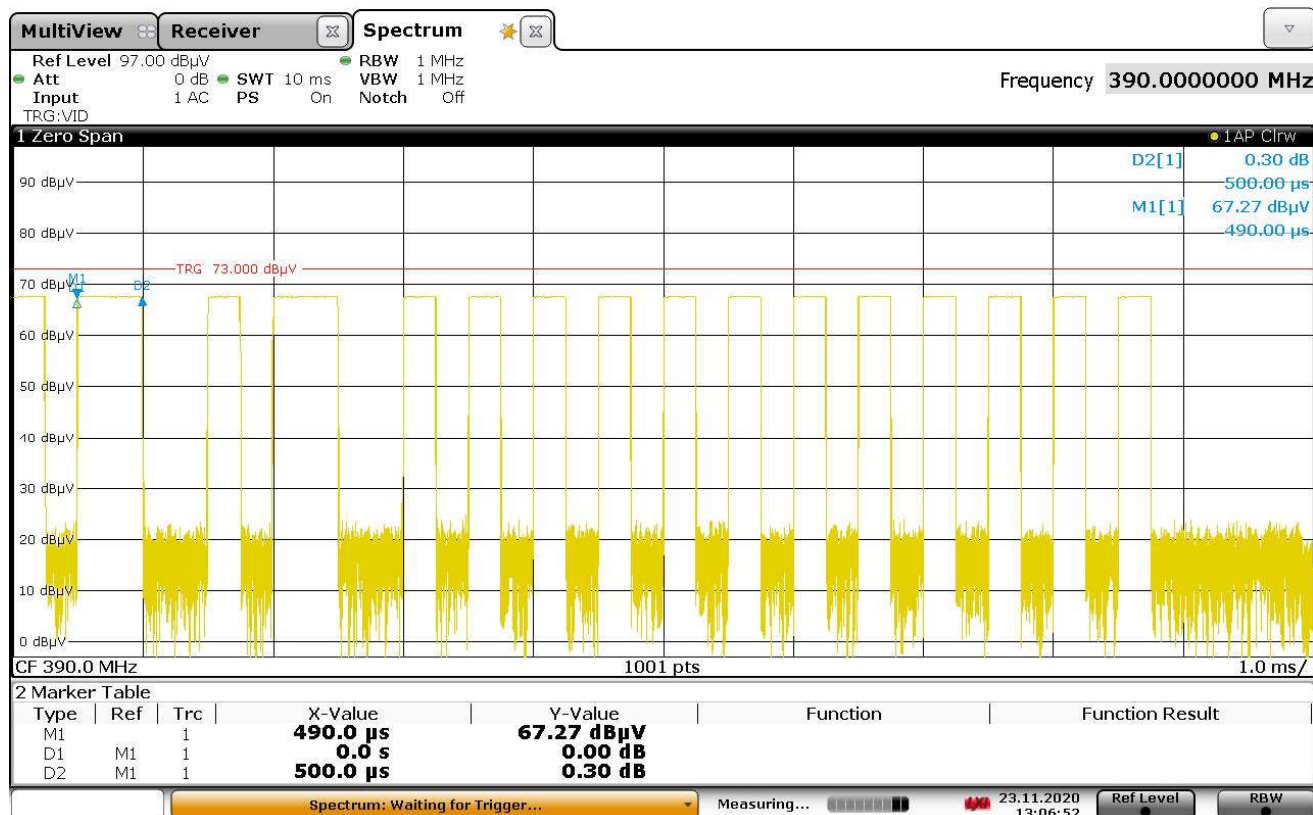


12:04:29 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (E Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 500µs = 0.5ms

DUTY CYCLE – WIDE PULSE

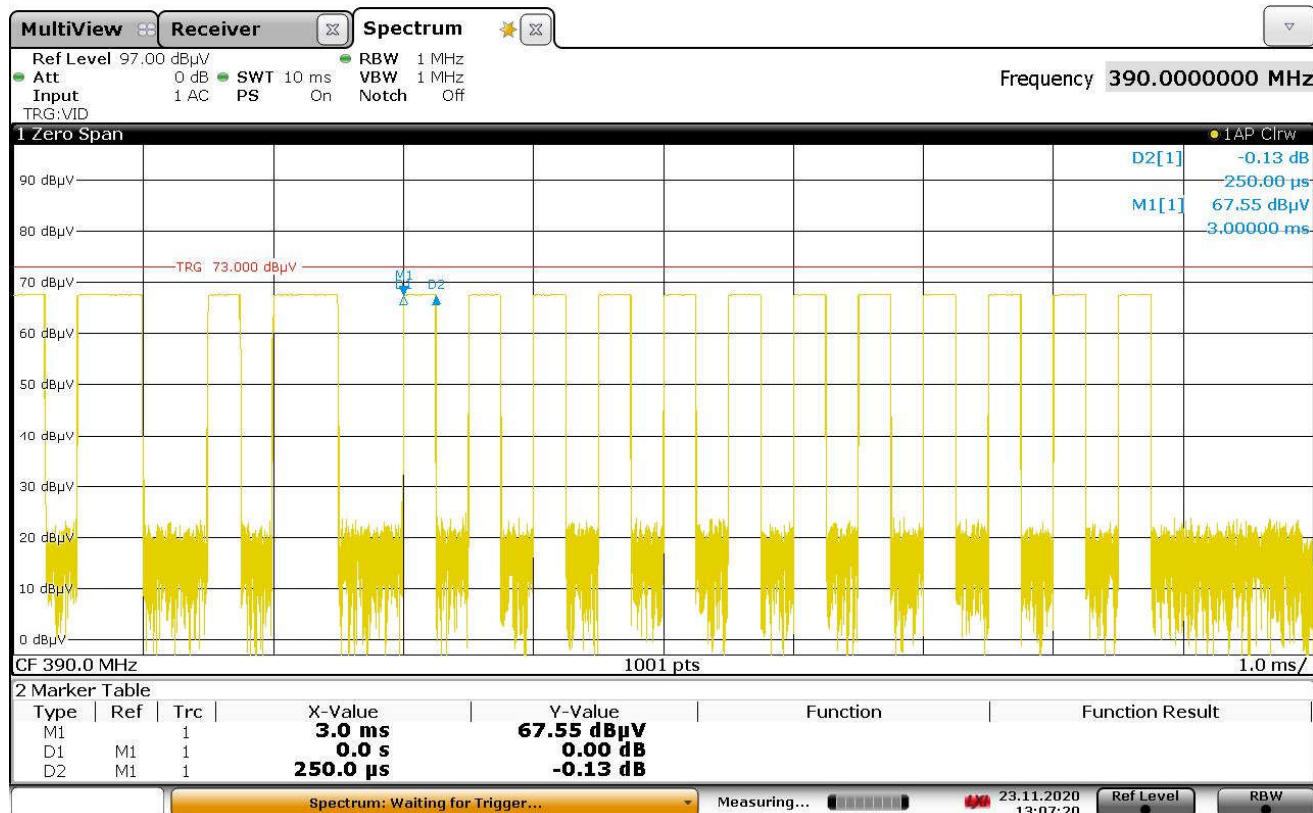


13:06:52 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (E Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Narrow Pulse = 250µs = 0.25ms

DUTY CYCLE – NARROW PULSE

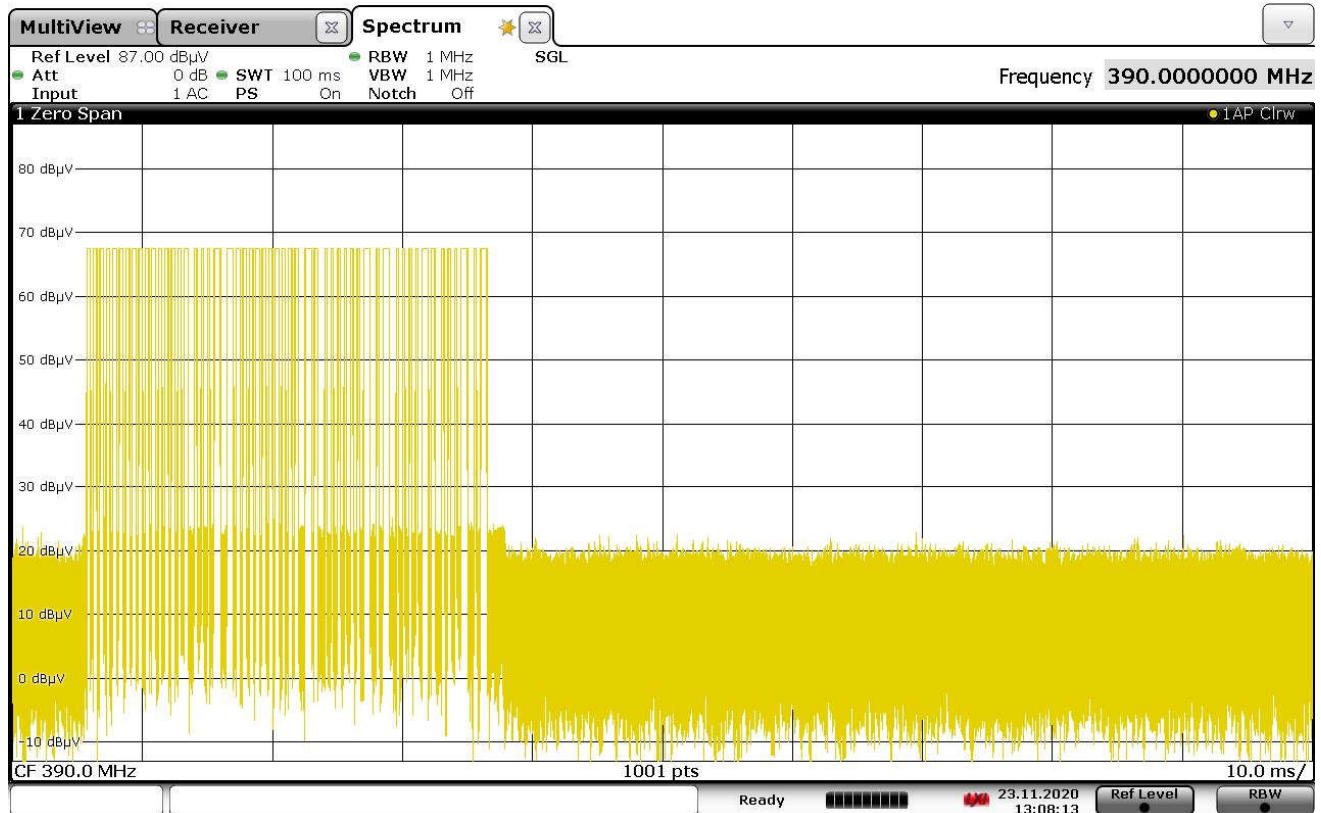


13:07:21 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (E Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $10 \times 0.5\text{ms} = 5.0\text{ms}$ $43 \times 0.25\text{ms} = 10.75\text{ms}$ $5.0 + 10.75 = 15.75\text{ms}$ $\text{D.C} = 20\log(15.75/100) = -16.06\text{dB}$

DUTY CYCLE

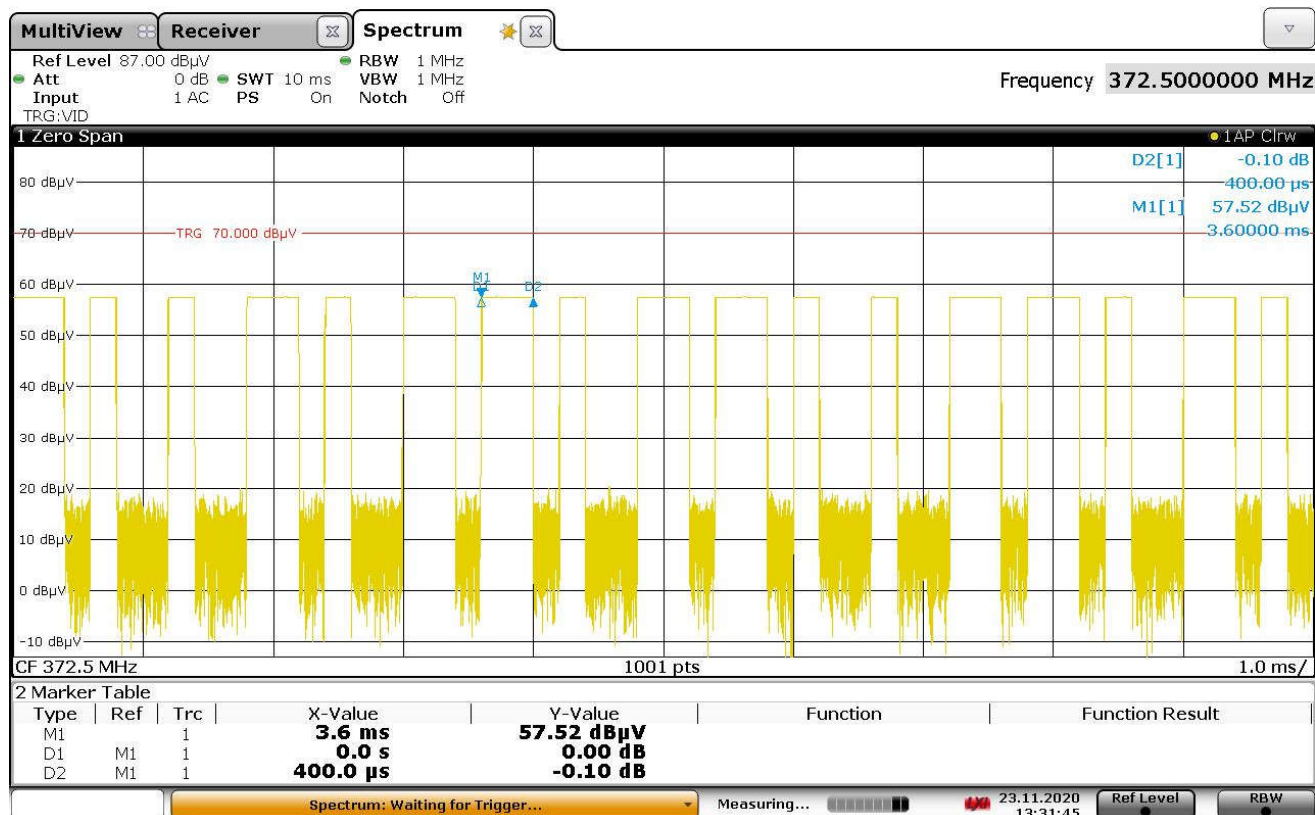


13:08:14 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	372.5MHz (Rolling Code – Keeloq Based)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 400µs = 0.4ms

DUTY CYCLE – WIDE PULSE

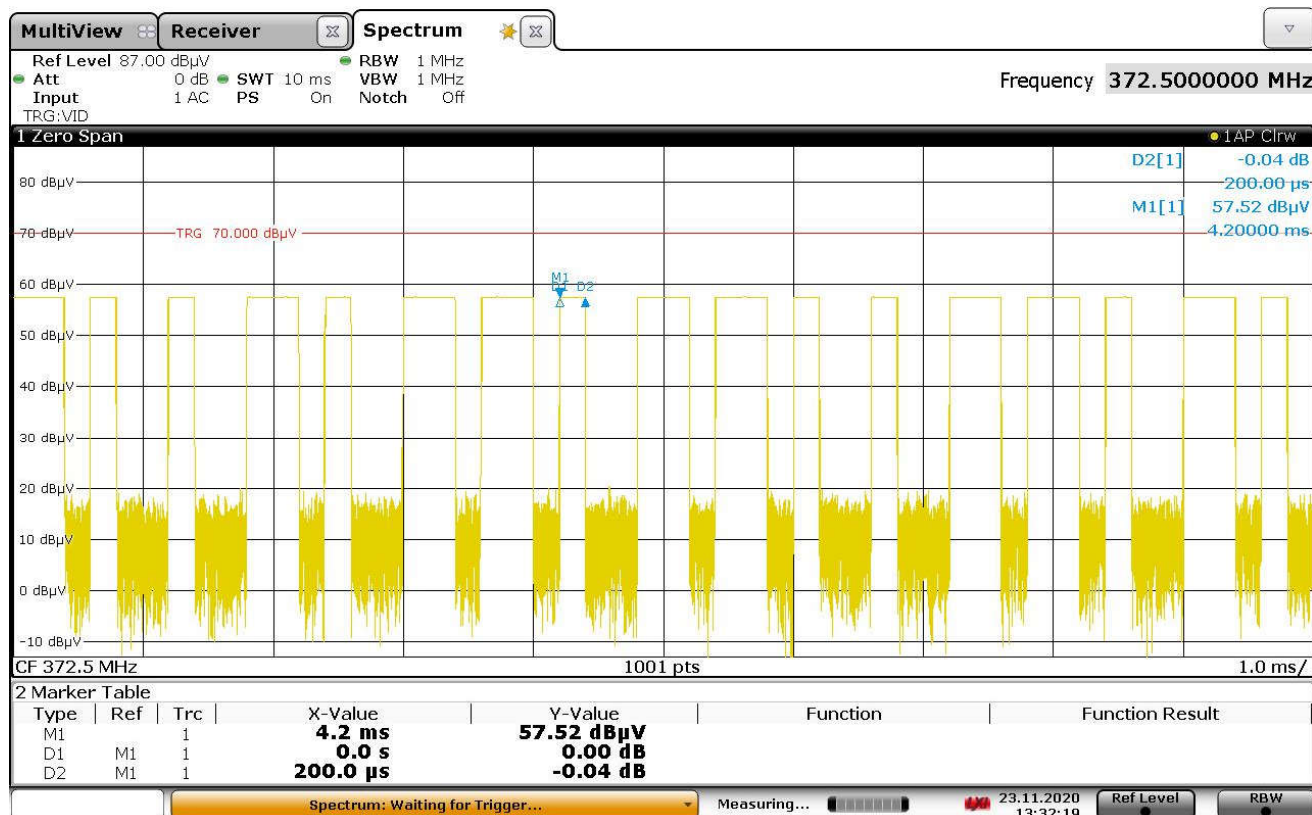


13:31:46 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	372.5MHz (Rolling Code – Keeloq Based)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Narrow Pulse = 200µs = 0.2ms

DUTY CYCLE – NARROW PULSE

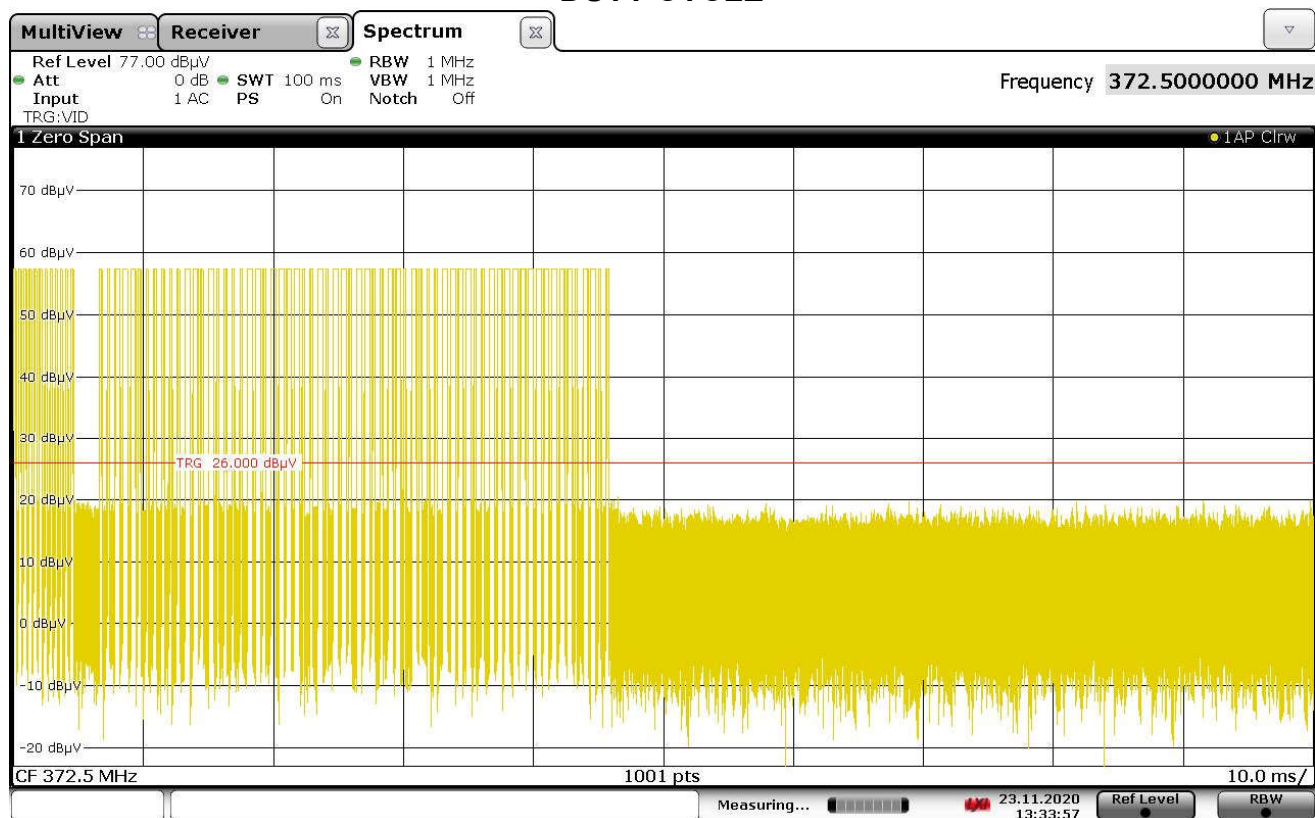


13:32:19 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	372.5MHz (Rolling Code – Keeloq Based)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $37 \times 0.4\text{ms} = 14.8\text{ms}$ $41 \times 0.2\text{ms} = 8.2\text{ms}$ $14.8 + 8.2 = 23.0\text{ms}$ D.C = $20\log(23/100) = -12.765\text{dB}$

DUTY CYCLE

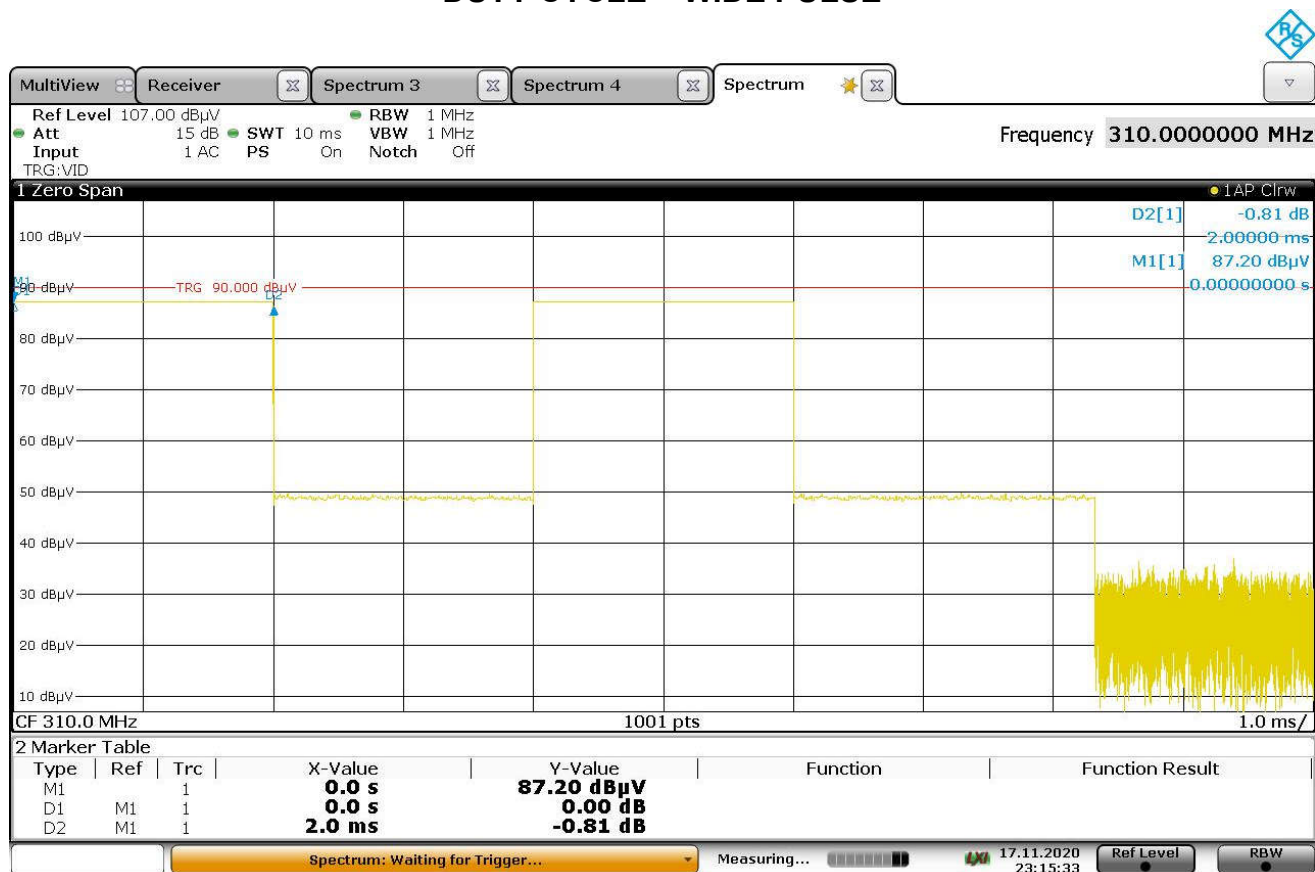


13:33:58 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	310MHz (8 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 2.0ms

DUTY CYCLE – WIDE PULSE

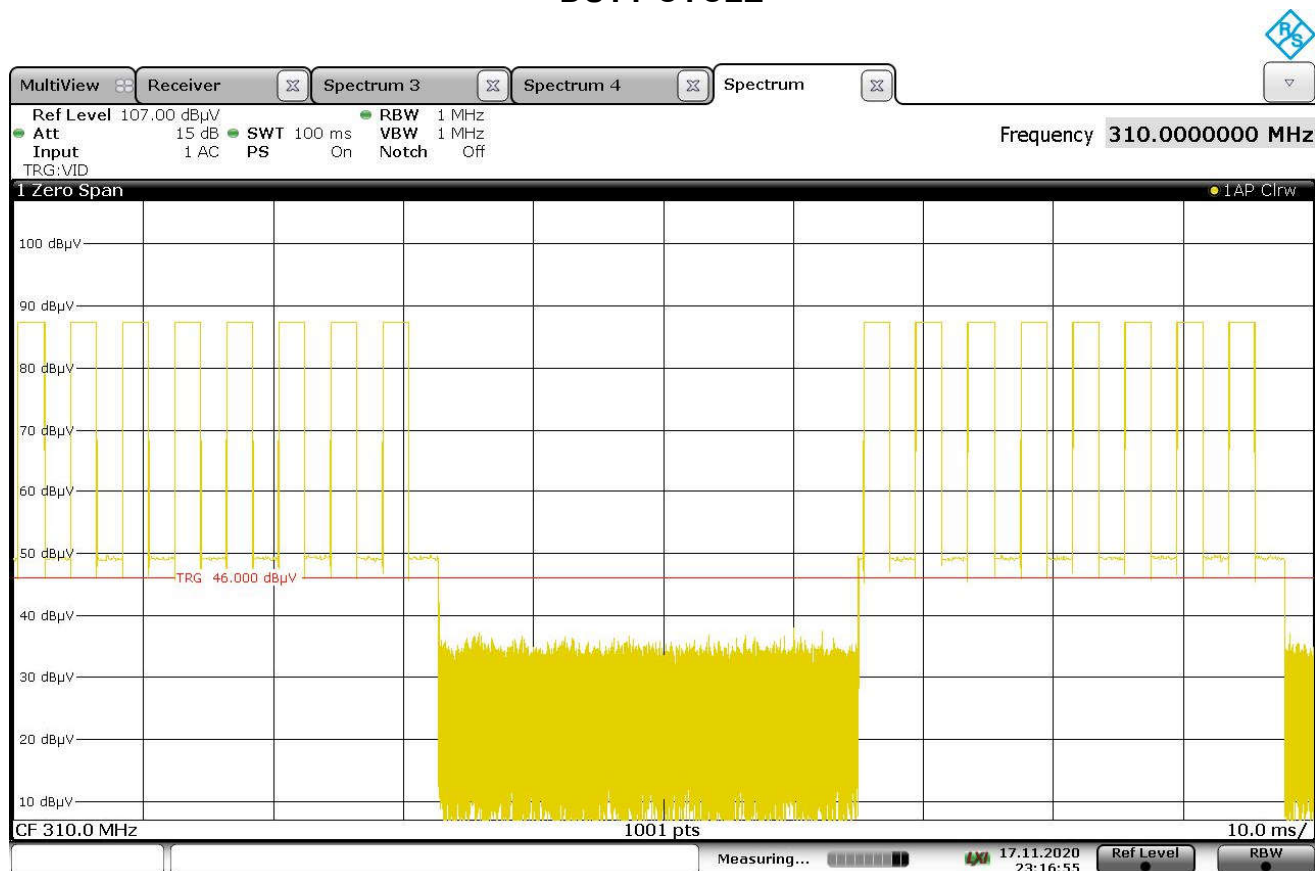


23:15:34 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	310MHz (8 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $16 \times 2.0\text{ms} = 32.0\text{ms}$ $D.C = 20\log(32/100) = -9.897\text{dB}$

DUTY CYCLE

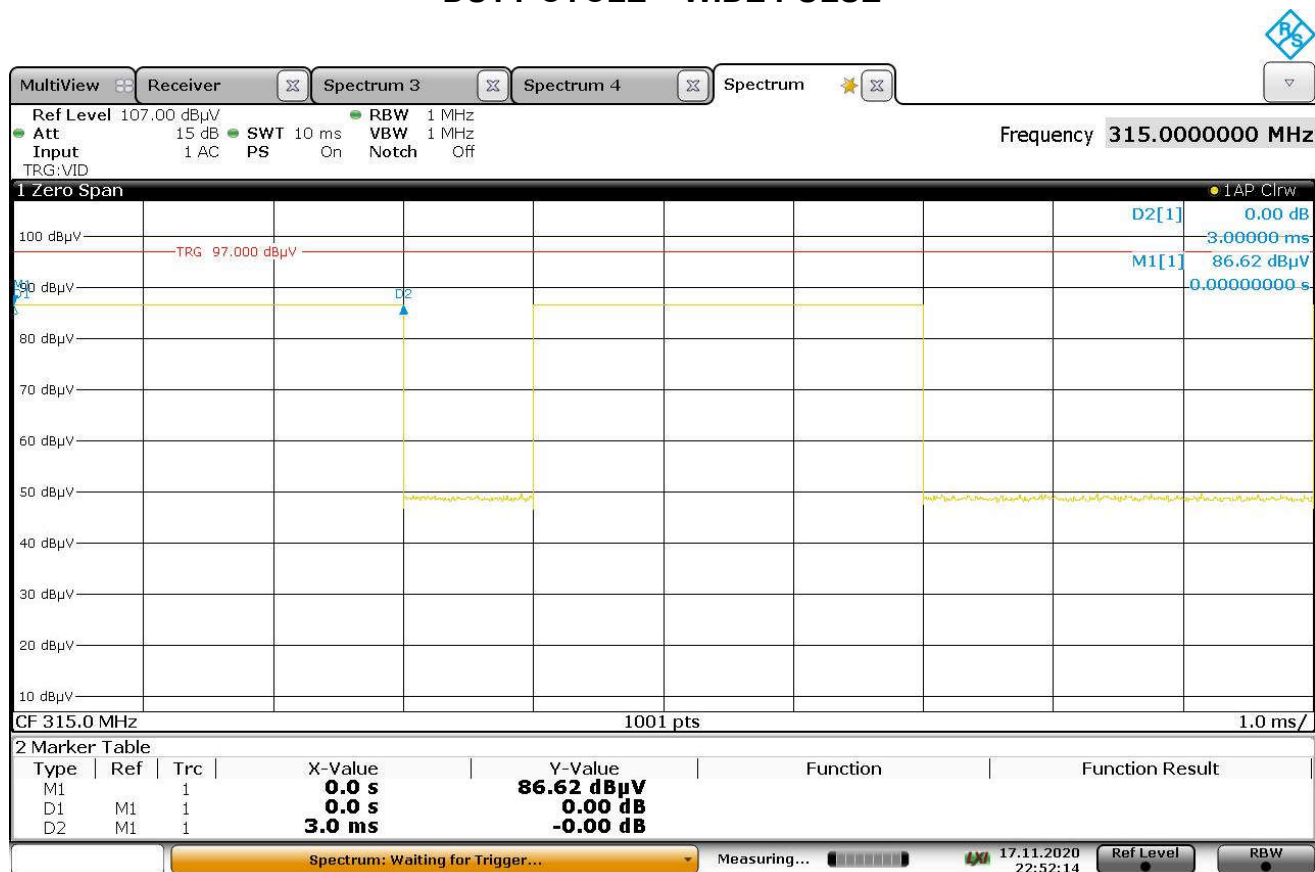


23:16:56 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	315MHz (9 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 3.0ms

DUTY CYCLE – WIDE PULSE

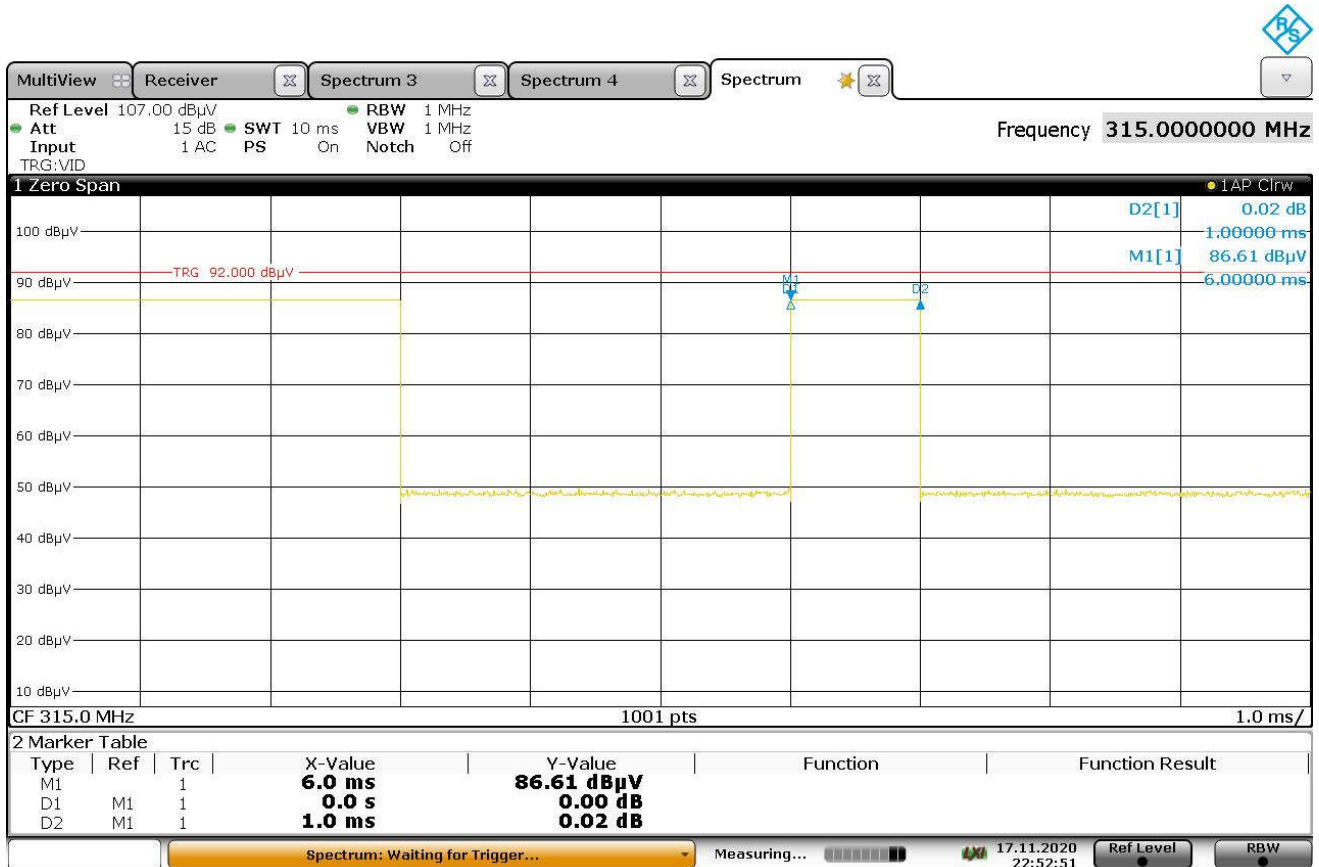


22:52:14 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	315MHz (9 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Narrow Pulse = 1.0ms

DUTY CYCLE – NARROW PULSE

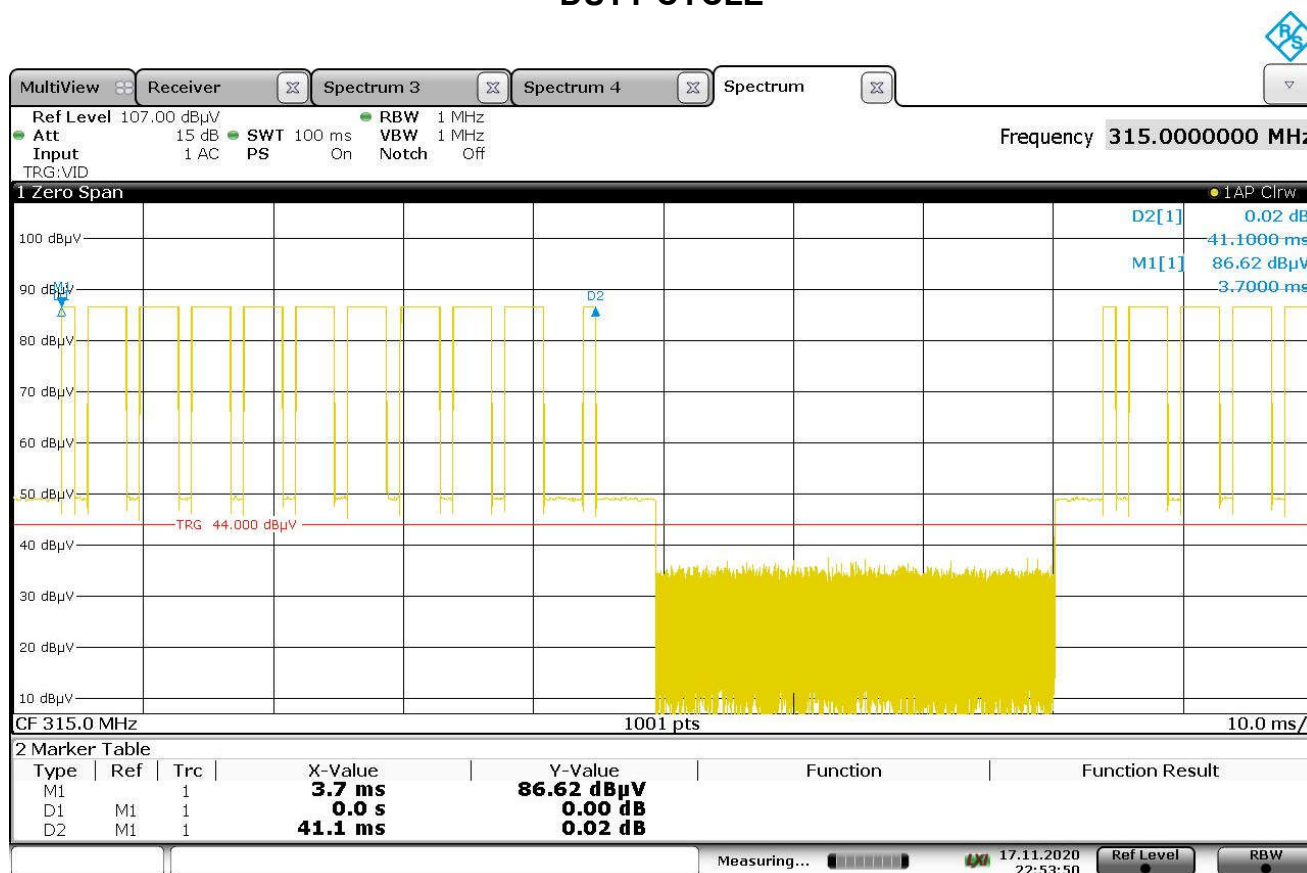


22:52:52 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	315MHz (9 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $12.5 \times 3.0\text{ms} = 37.5\text{ms}$ $3 \times 1.0\text{ms} = 3.0\text{ms}$ $37.5 + 3.0 = 40.5\text{ms}$ $D.C = 20\log(40.5/100) = -7.85\text{dB}$

DUTY CYCLE

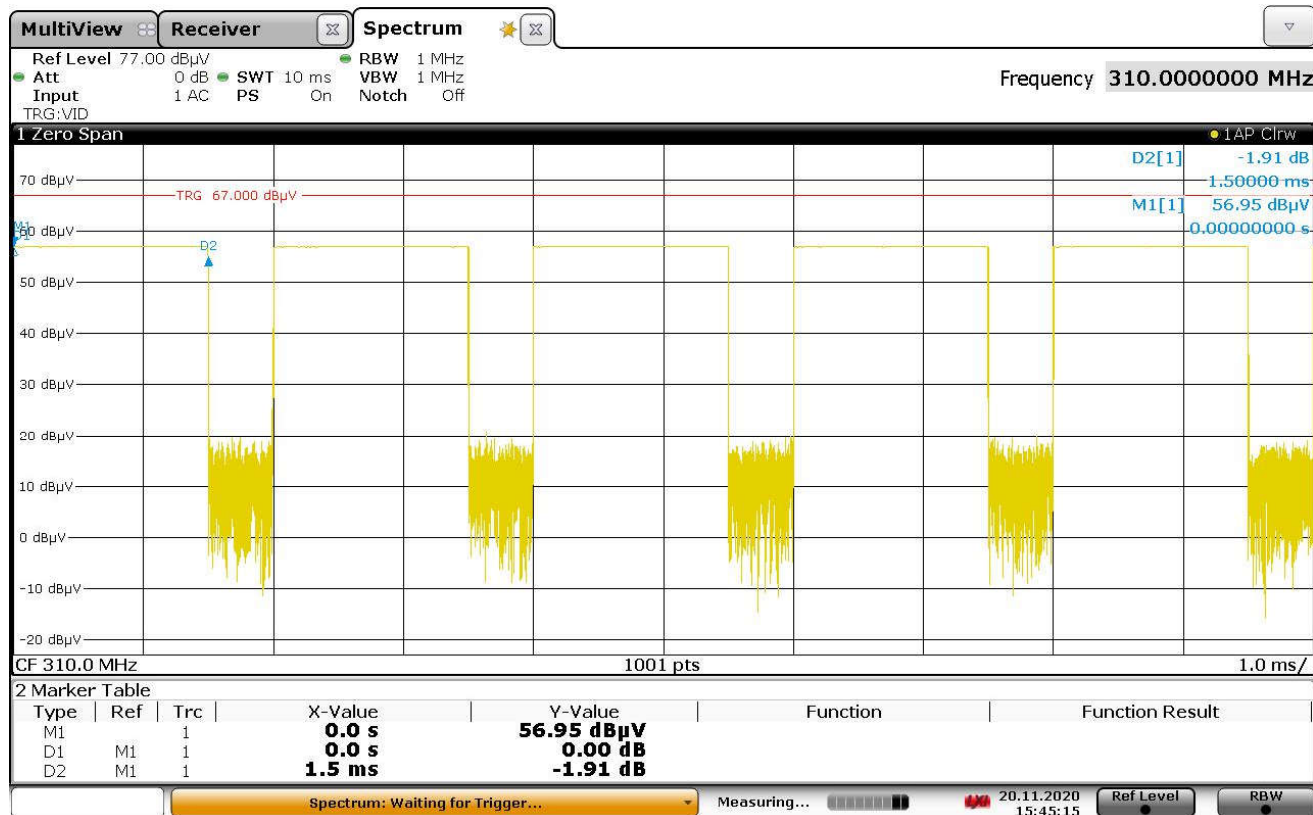


22:53:51 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	310MHz (10 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 1.5ms

DUTY CYCLE – WIDE PULSE

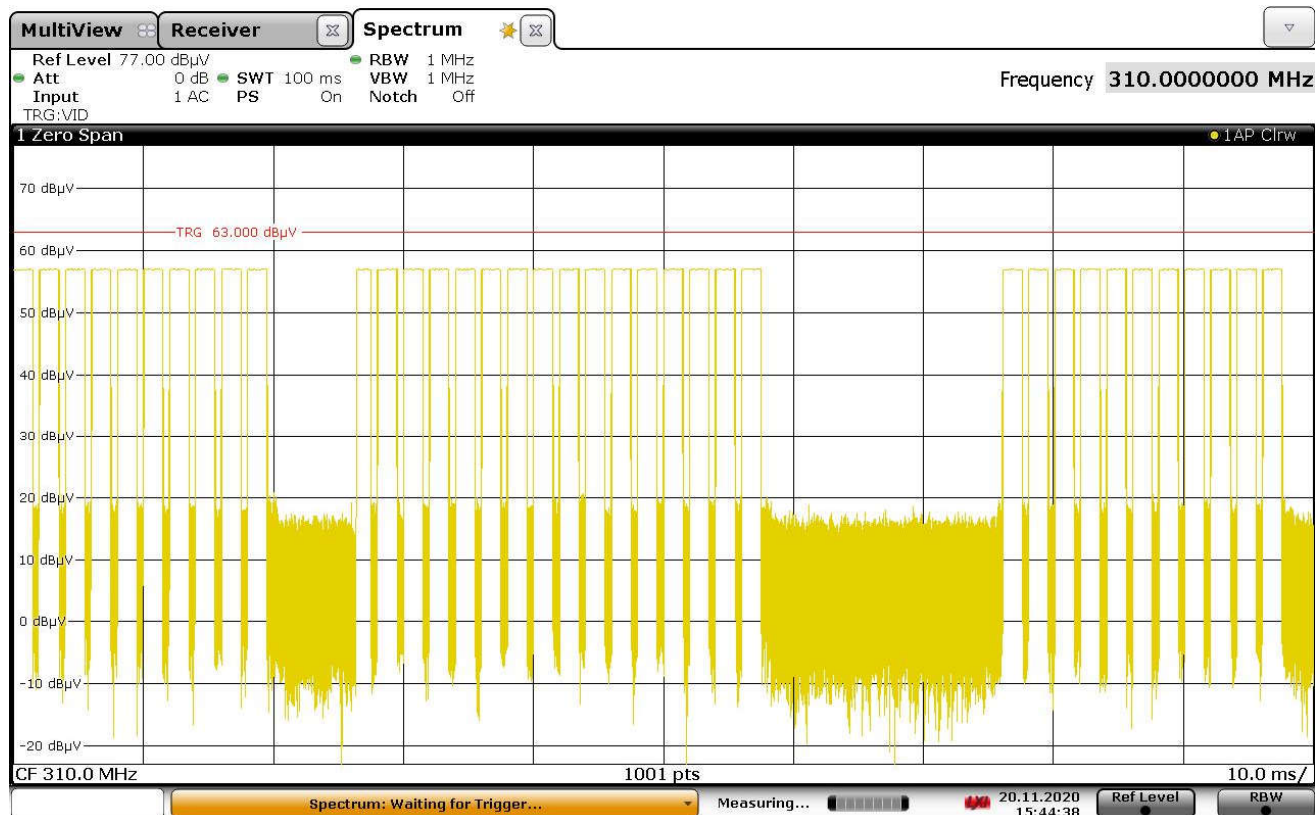


15:45:16 20.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	310MHz (10 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $37 \times 1.5\text{ms} = 55.5\text{ms}$ $\text{D.C} = 20\log(55.5/100) = -5.11\text{dB}$

DUTY CYCLE

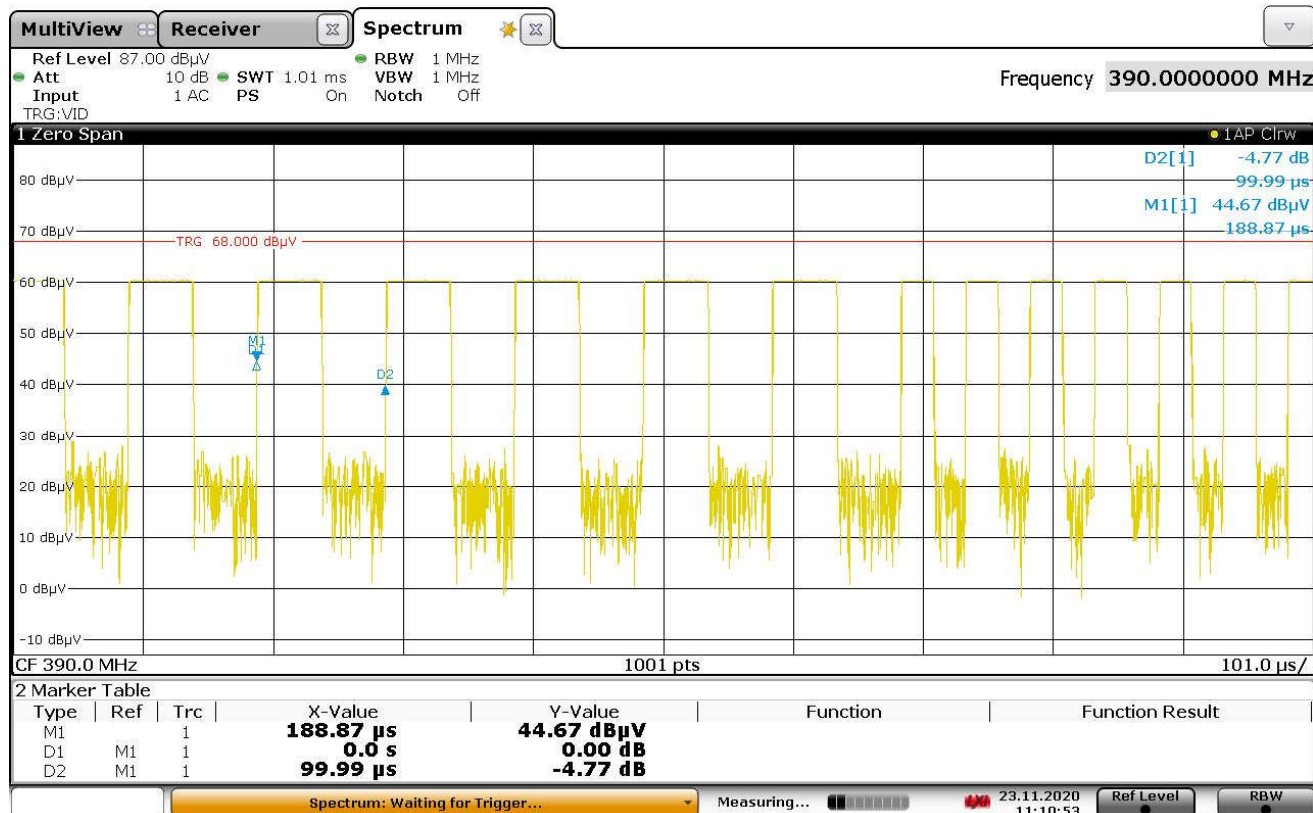


15:44:39 20.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (12 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 99.99µs = 0.099ms

DUTY CYCLE – WIDE PULSE

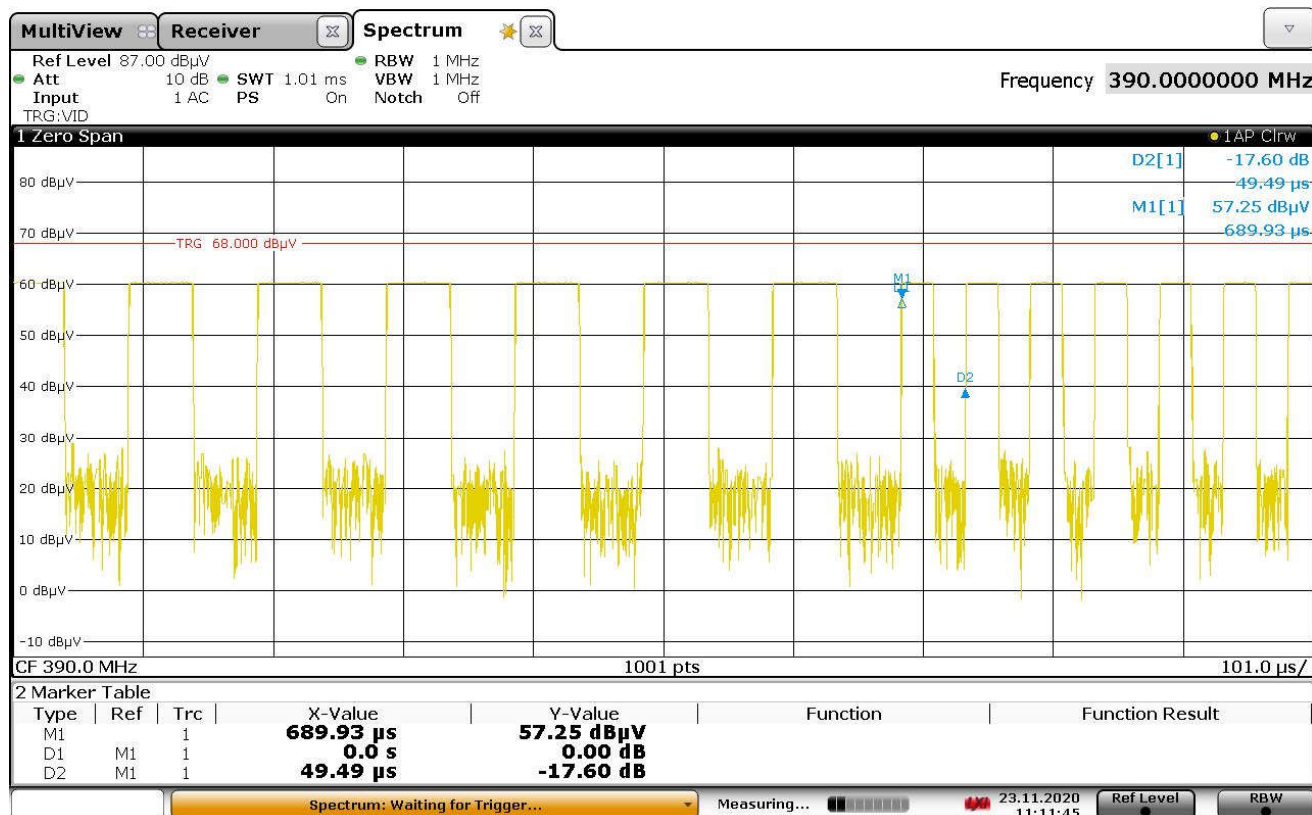


11:10:54 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (12 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Narrow Pulse = 49.99µs = 0.049ms

DUTY CYCLE – NARROW PULSE

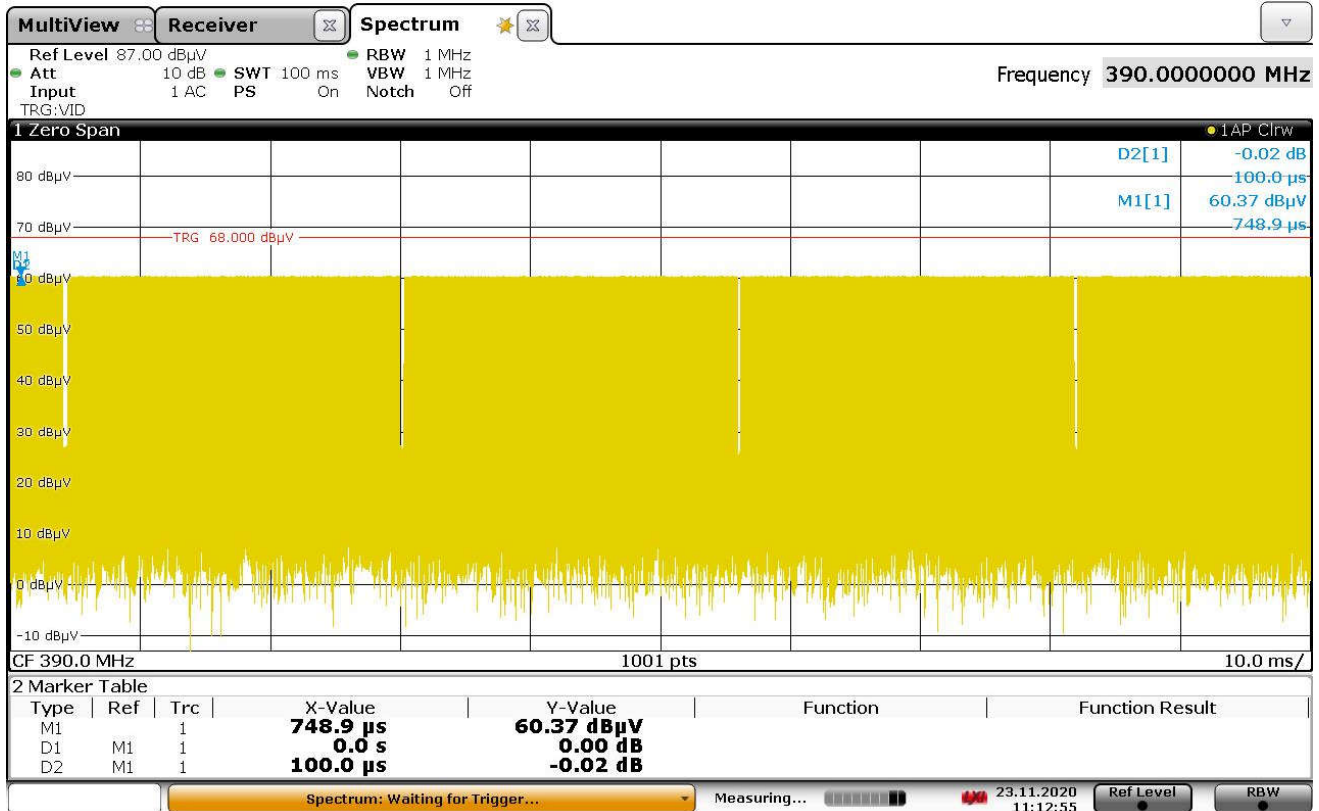


11:11:46 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (12 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Provided: -6.00dB (50% Duty Cycle)

DUTY CYCLE

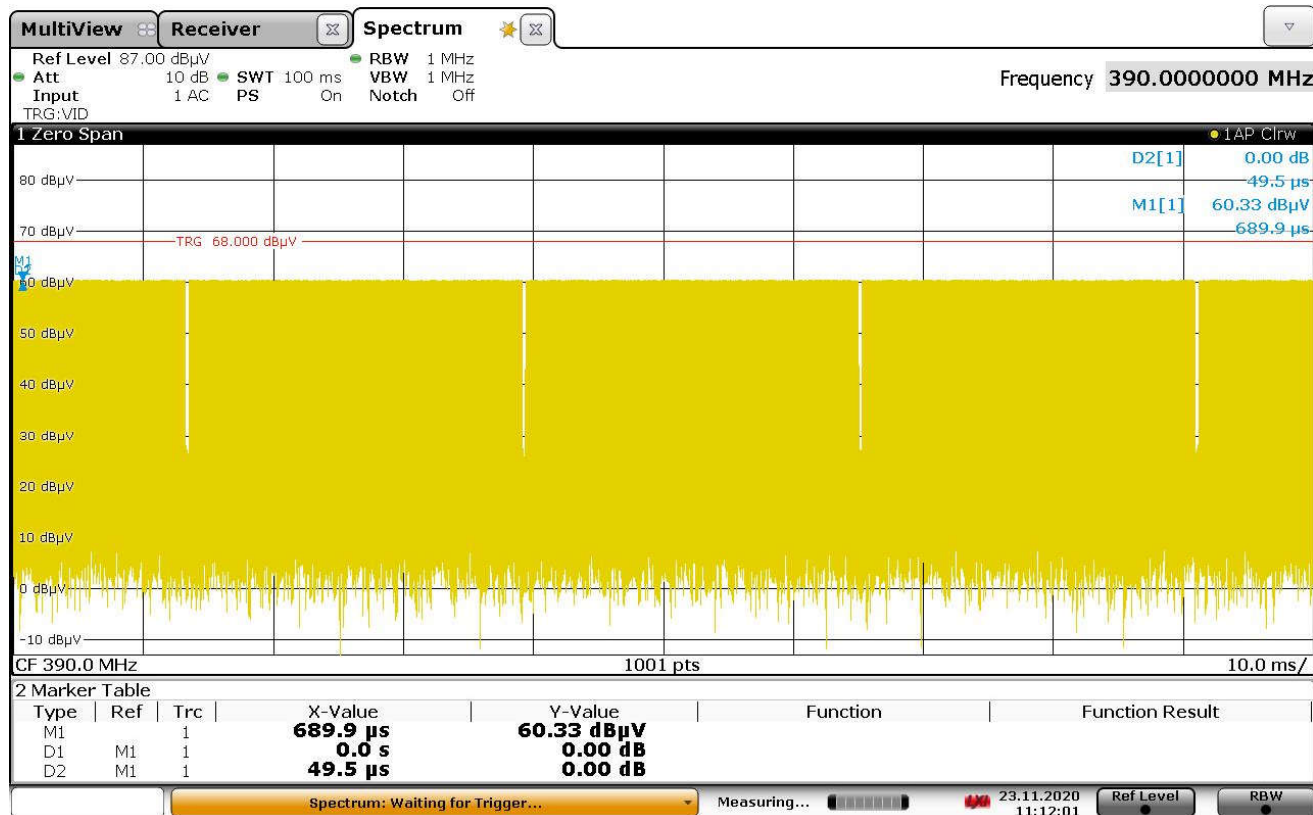


11:12:56 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (12 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Provided: -6.00dB (50% Duty Cycle)

DUTY CYCLE



11:12:01 23.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (7 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 3.0ms

DUTY CYCLE – WIDE PULSE

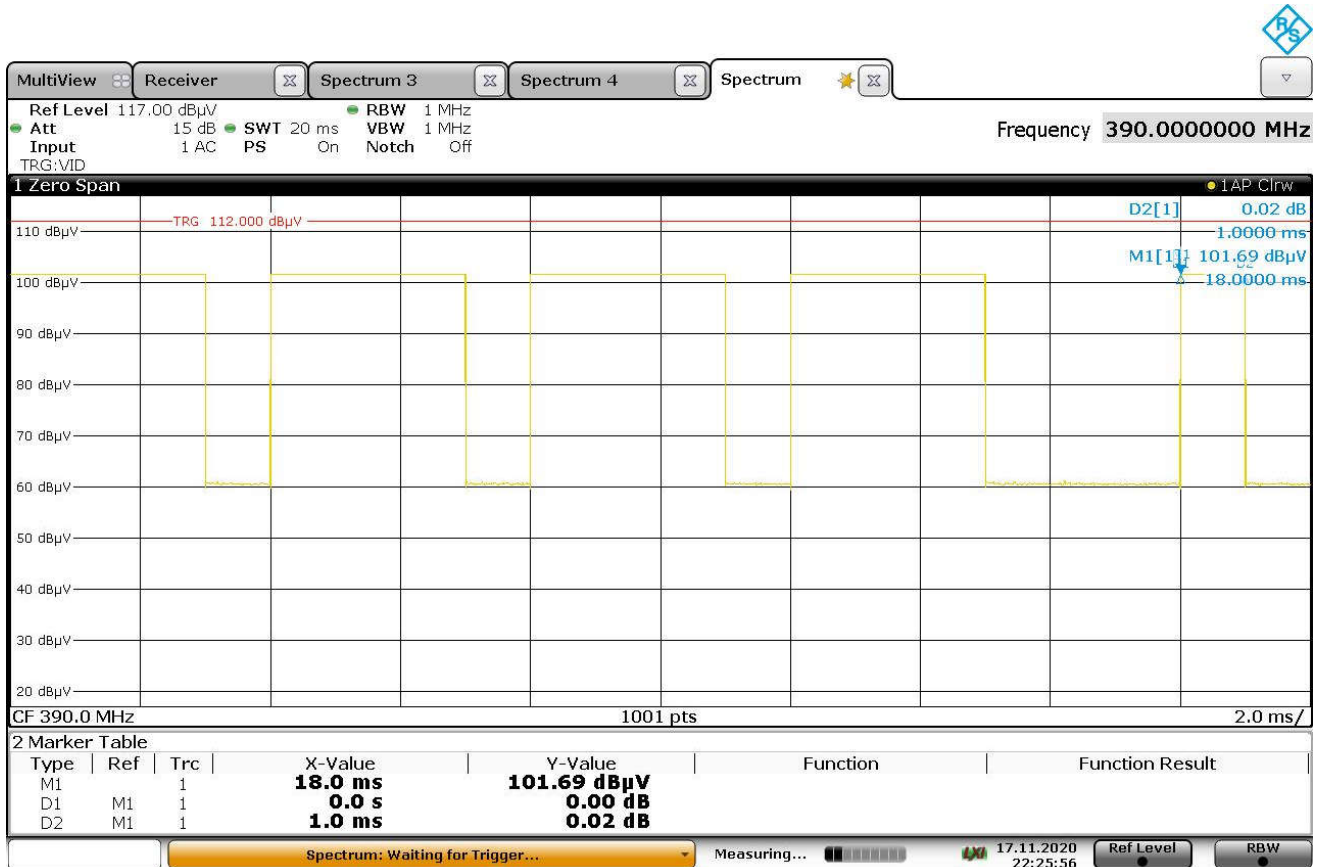


22:24:34 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (7 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Narrow Pulse = 1.0ms

DUTY CYCLE – NARROW PULSE

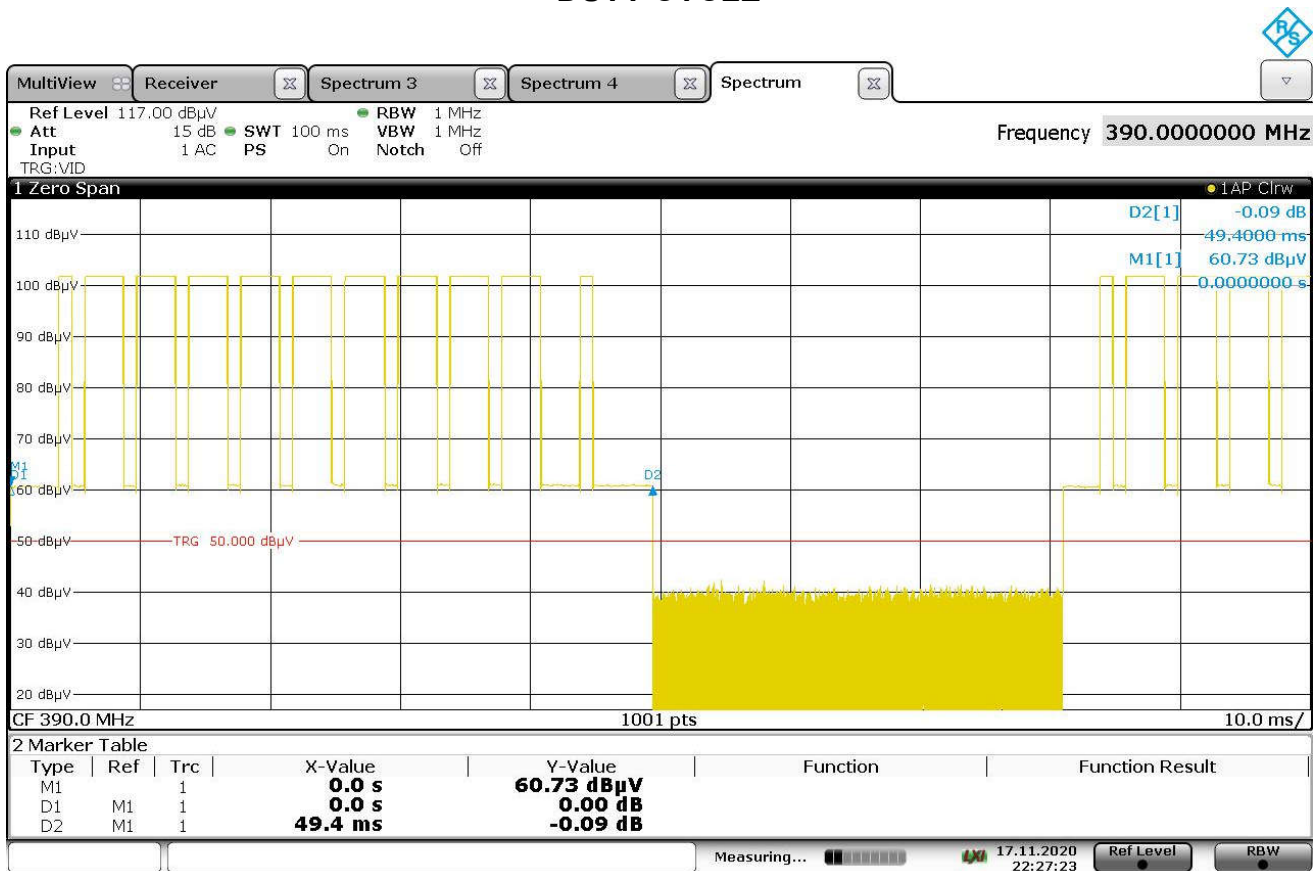


22:25:56 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (7 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $12.5 \times 3.0\text{ms} = 37.5\text{ms}$ $3 \times 1.0\text{ms} = 3.0\text{ms}$ $37.5 + 3.0 = 40.5\text{ms}$ $D.C = 20\log(40.5/100) = -10.75\text{dB}$

DUTY CYCLE

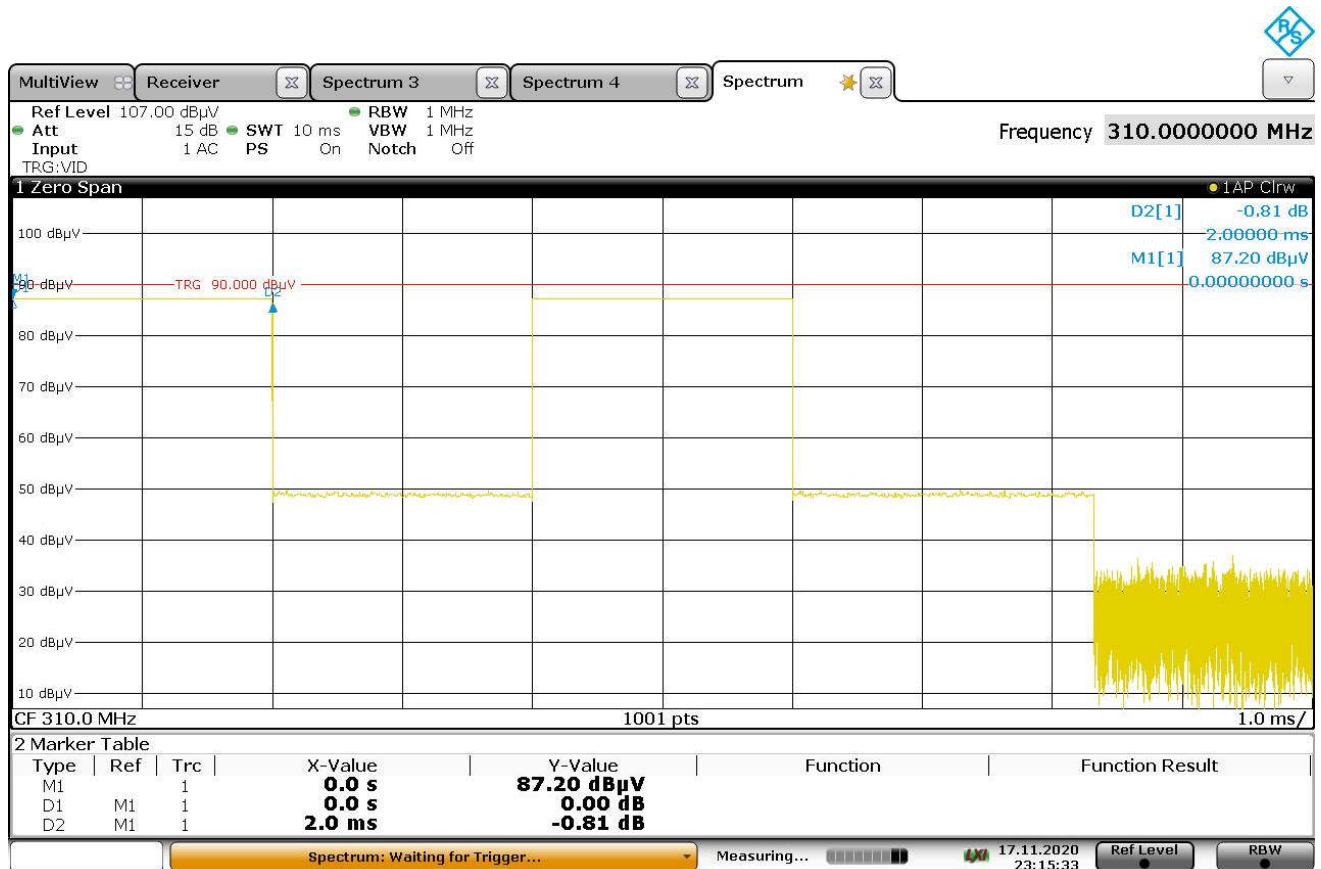


22:27:24 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (8 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 2.0ms

DUTY CYCLE – WIDE PULSE

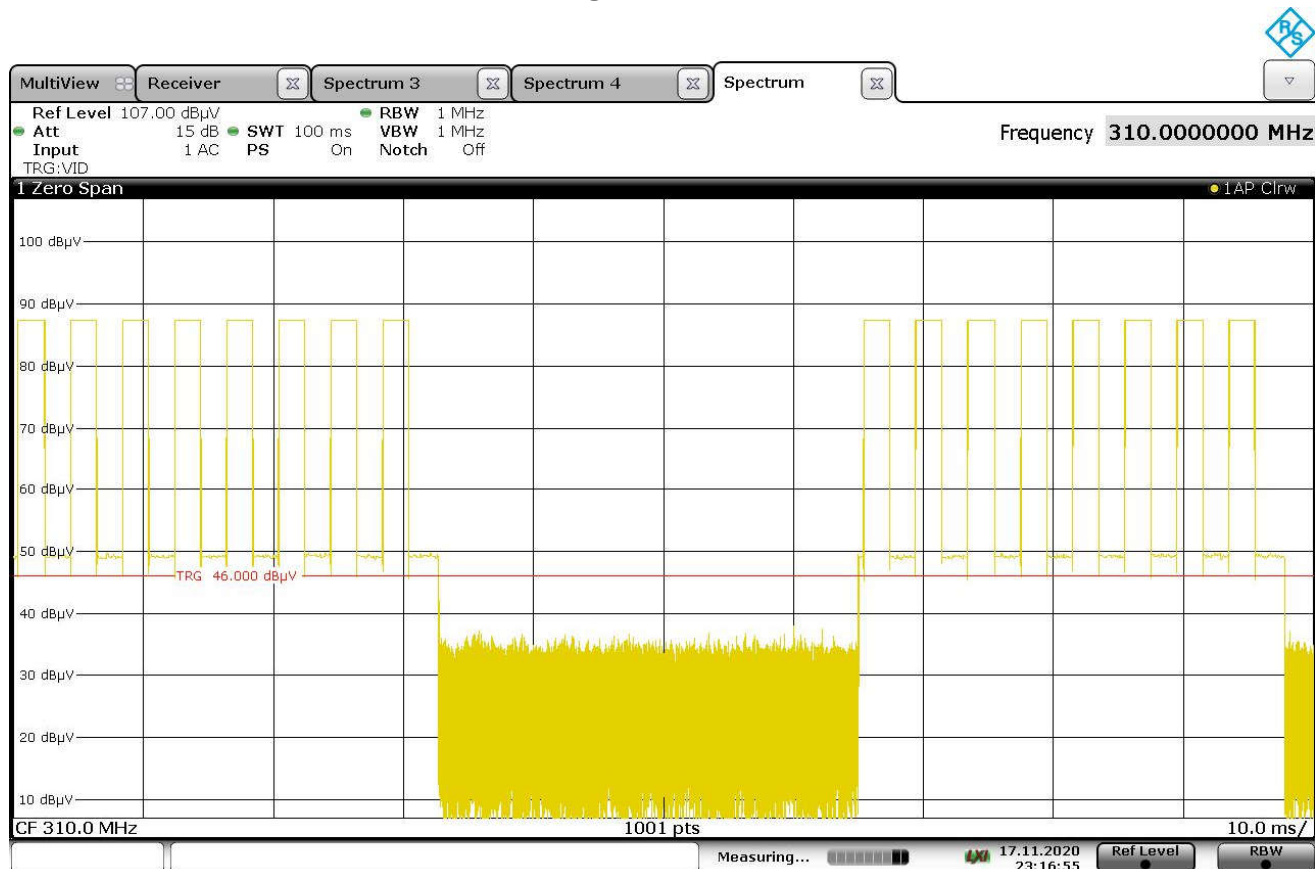


23:15:34 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (8 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $16 \times 2.0\text{ms} = 32.0\text{ms}$ $D.C = 20\log(32/100) = -9.897\text{dB}$

DUTY CYCLE

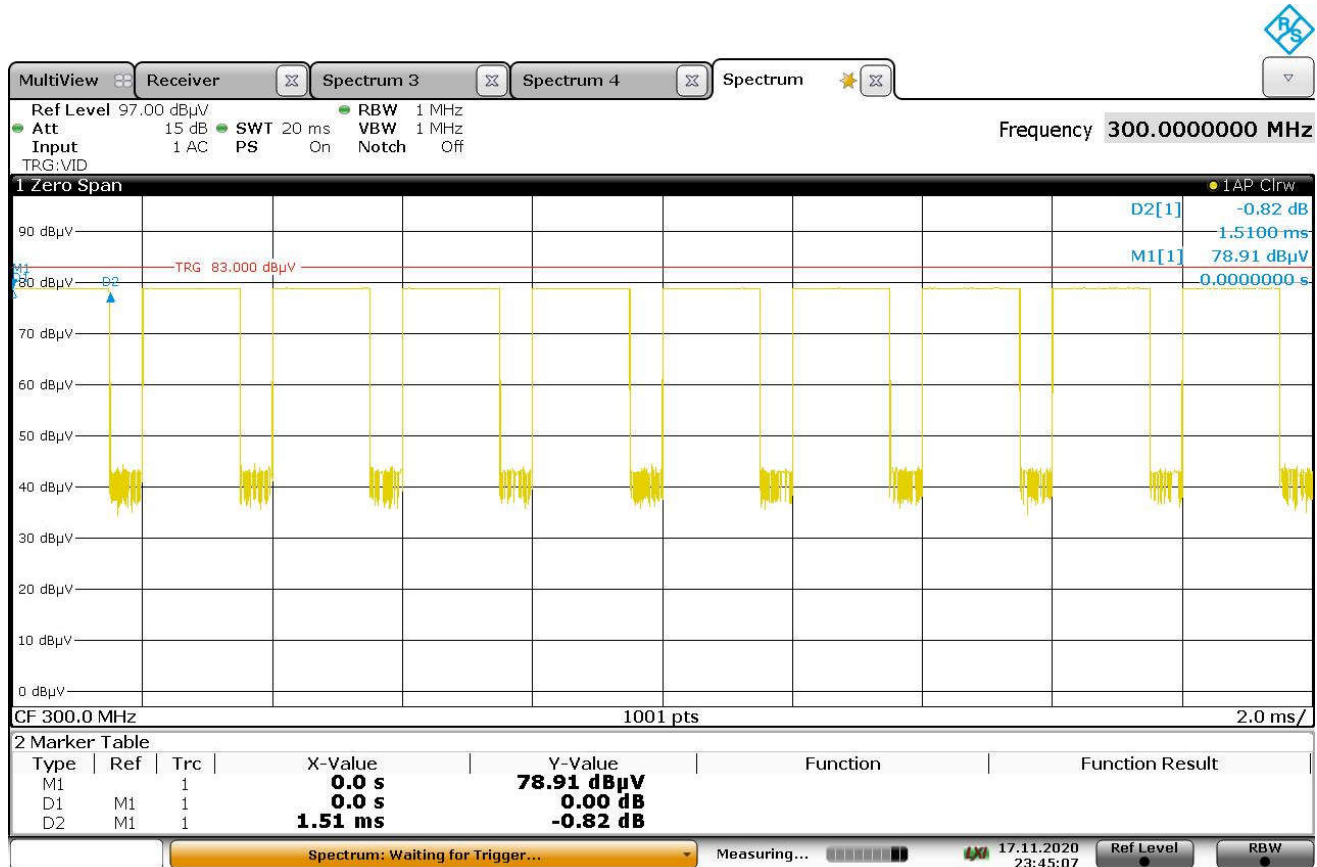


23:16:56 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	300MHz (10 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 1.51ms

DUTY CYCLE – WIDE PULSE



23:45:07 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	300MHz (10 DIP Code)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Duty Cycle Calculation: $30 \times 1.51\text{ms} = 45.3\text{ms}$ $D.C = 20\log(45.3/100) = -6.878\text{dB}$

DUTY CYCLE



23:46:22 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (9 DIP Code - Chamberlain)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Wide Pulse = 3.0ms

DUTY CYCLE – WIDE PULSE

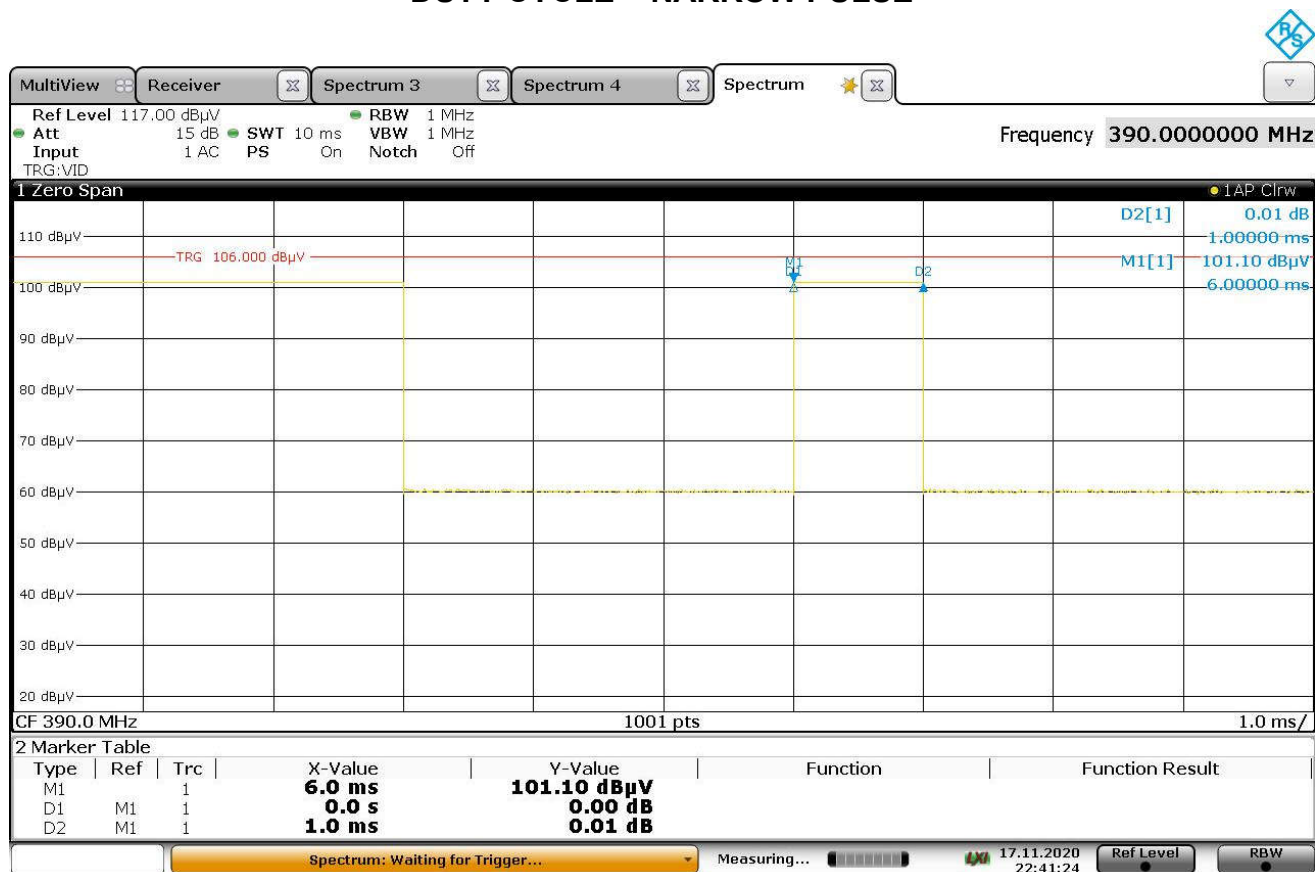


22:40:35 17.11.2020

DATA PAGE

MANUFACTURER	The Chamberlain Group, Inc.
EUT	Automotive Transceiver for Garage Door Control
MODEL NO.	CMRAA0101E3 (ARQ2-UGDO)
TEST	FCC §15.231, RSS-210 Duty Cycle
MODE	Tx
FREQUENCY TESTED	390MHz (9 DIP Code - Chamberlain)
DATE TESTED	November 17, 2020
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	Narrow Pulse = 1.0ms

DUTY CYCLE – NARROW PULSE



22:41:25 17.11.2020