Reference Device	Variant Device	Key differences
FCC ID: UKCW60MH Model: W60T	FCC ID: UKCW60MH Model: W60MH	This FCC ID will include the models W60MH and W60T. The model W60MH has 3 circuits and the model W60T has five circuits. Control circuit, motor circuit and battery connection circuit are common for all the models. The BLE Broker Module circuit and the priva + door circuit are only for the electronic model W40T. The BLE Broker Module circuit contains an already FCC/ISED certified module (FCC ID: TCZ-10105567G1 / IC: 1175F-10105567G1).

Rule Part	Test item	Data Reference	Comments
DTS			
FCC 15.247 (a)	6 dB Bandwidth	Y	Pointer to 77037RRF.012 for model W60T
FCC 15.247 (b)	Maximum output power and antenna gain	Y	Pointer to 77037RRF.012 for model W60T
FCC 15.247 (c)	Band-edge emissions compliance (Transmitter)	Y	Pointer to 77037RRF.012 for model W60T
FCC 15.247 (d)	Power spectral density	Y	Pointer to 77037RRF.012 for model W60T
FCC 15.247 (e)	Emission limitations radiated (Transmitter)	N	Pointer to 77037RRF.011 for model W60MH
DXX			
FCC 15.225 (a)	Field strength of emissions within the band 13.553 MHz -13.567 MHz	N	Pointer to 73037RRF.013 for model W60MH
FCC 15.225 (b)	Field strength of emissions within the band 13.410 - 13.553 MHz and 13.567 – 13.710 MHz	N	Pointer to 73037RRF.013 for model W60MH
FCC 15.225 (c)	Field strength of emissions within the band 13.110 - 13.410 MHz and 13.710 – 14.010 MHz	N	Pointer to 73037RRF.013 for model W60MH
FCC 15.225 (d)	Field strength of emissions outside of the band 13.110 MHz -14.010 MHz	N	Pointer to 73037RRF.013 for model W60MH
FCC 15.225 (e)	Frequency tolerance of the carrier signal	Y	Pointer to 73037RRF.014 for model W60T
COLOCATION			

FCC 15.31 (h), FCC 15.209 (a), 15.225 (d), 15.247 (d)	Emission limitations radiated (Transmitter)	Y	Pointer to 73037RRF.020 for model W60T

Acceptance Criteria

FCC Part 15.247 (DTS)

For the same radiated test conditions, It has been taken the considered most critical range of harmonic emission of the carrier and compared the value of the first evaluable harmonic, with the difference between the reference and the variant being < 3 dB.

The previous information can be confirmed by the reports number 77037RRF.011 (page 17) and 77037RRF.012 (page 41 and 42).

Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Corrected RMS Unwanted Lvl (dBµV/m)	Pol	Detector
2402.00000	[3, 17]	4803.3750	54.34	--	V	PK
			--	20.32		AVG
		9607.1250	57.25	--	V	PK
		12011.6250	53.81	--	H	PK
			--	19.79		AVG
		14410.8750	58.44	--	H	PK
2440.00000		4879.5000	53.16	--	V	PK
			--	19.14		AVG
		7320.7500	55.95	--	H	PK
			--	21.93		AVG
		9758.9375	56.85	--	V	PK
		14638.3750	56.69	--	H	PK
2480.00000		4959.5625	52.22	--	H	PK
			--	18.20		AVG
		7439.3125	55.11	--	H	PK
			--	21.09		AVG
		14880.3125	58.01	--	H	AVG

Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Corrected RMS Unwanted Lvl (dBµV/m)	Pol	Detector
2402.00000	[3, 17]	4803.3750	55.67	--	V	PK
			--	21.65		AVG
		9607.1250	59.24	--	V	PK
		12010.7500	53.17	--	V	PK
			--	19.15		AVG
		14413.5000	54.50	--	H	PK
2440.00000		4879.5000	55.30	--	V	PK
			--	21.28		AVG
		7319.4375	48.64	--	H	PK
			--	14.62		AVG
		9760.6875	54.49	--	V	PK
		12198.8750	50.56	--	V	PK
			--	16.54		AVG
2480.00000		4959.1250	51.94	--	V	PK
			--	17.92		AVG
		7440.6250	52.76	--	H	PK
			--	18.74		AVG
		9919.0625	55.38	--	V	PK
		12399.2500	50.53	--	V	PK
			--	16.51		AVG
		14882.0625	54.49	--	V	PK

FCC Part 15.225 (DXX)

For the same radiated test conditions, It has been evaluated the value of the carrier, with the difference between the reference and the variant being < 3 dB.

The previous information can be confirmed by the reports number 77037RRF.013 (page 13) and 77037RRF.014 (page 17).

- RFID mode ISO 14443A

- Band 13.553 -13.567 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.560	11.43	-28.57

- Band 13.410 - 13.553 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.454	-6.93	-46.93

- Band 13.567-13.710 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.569	-11.66	-51.66

- RFID mode ISO 14443A

- Band 13.553 -13.567 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.560	11.85	-28.15

- Band 13.410 - 13.553 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.551	-12.66	-52.66

- Band 13.567-13.710 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.569	-11.19	-51.19