

3.0 SCOPE OF EVALUATION

The **XL-200P C1D1 Rebanded**, FCC ID OWDTR-0144-E, ISEDC ID: 3636B-0144 is a multi-band, Push-To-Talk (PTT) Licensed Mobile Radio (LMR) transceiver intended for Occupational Use. It incorporates WiFi and BlueTooth transmitters. The **XL-200P C1D1** **Rebanded** is identical in RF circuitry to the XL-200P (Rebanded), FCC ID OWDTR-0133-E, ISEDC ID: 3636B-0133 with the exception that it has been modified to meet C1D1 Safety Standards. It include the additions of a new battery, P/N 14034-4045-01, which has been designed to meet C1D1 Safety Standards. A metal shield is included and is placed between the battery pack and the DUT. The XL-200P C1D1 Rebanded is the System Variant of the XL-200P (Rebanded).

In this document, the following DUT references are made:

The **XL-200P C1D1 Rebanded**, FCC ID: OWDTR-0144-E, ISEDC ID: 3636B-0144 is referenced in this report as **XL-200P C1D1**

The XL-200P (Rebanded), FCC ID: OWDTR-0133-E, ISEDC ID: 3636B-0133 is referenced in this report as **XL-200P**

The Test Plan developed for this evaluation leverages SAR test data from previous evaluations of the XL-200P System Variant and is based on test channels, configurations and accessories which produced the highest (*worst case*) SAR. The previous *worst case* configurations of the XL-200P were re-evaluated during the course of this investigation to establish a base-line for comparison of test data from the XL-200P C1D1. It is important to note that the XL-200P C1D1 uses only a limited number of Body-Worn and Audio Accessories evaluated with the XL-200P. Additionally, the XL-200P C1D1 does not use any of the Batteries and only four (4) of the Antennas evaluated with the XL-200P. Conversely, the 14034-4045-01 battery is not supplied with the XL-200P. The base-line evaluation was made using the 14034-4000-01 battery for both the XL-200P and the XL-200P C1D1 as this enforced commonality between the two devices. All antennas used with the XL-200P C1D1 were evaluated. The basis for the *worst case* configurations of the XL-200P are as follows:

3.1 Previous XL-200P Test Data

Worst Case Test Data from XL-200P - System Variant							
Model:	XL-200P						
FCC ID:	OWDTR-0133-E						
Variant:	System Radio						
Date Evaluated:	March 2015						
Reference Report:	031315OWD-1302-S						
Frequency	Configuration	Antenna	Accessory 1	Accessory 1	SAR (50% PTT)	Band	Spot Check
136	Head	14035-4000-01	n/a	n/a	0.69	LMR	Y
156.8	Body	14035-4000-01	B1	A1	1.35		Y
406	Head	14035-4420-01	n/a	n/a	1.85		Y
406	Body	14035-4420-01	B1	A1	4.63		Y
824	Head	14035-4420-01	n/a	n/a	1.06		Y
806	Body	14035-4420-01	B1	A1	3.86		Y
Frequency	Configuration	Antenna**	Accessory 1	Accessory 1	SAR (100%)	Band	Spot Check
2412	Head	14035-4000-01	n/a	n/a	0.004	WiFi	
2437	Body	14035-4000-01	B1	A1	0.005		Y
5240	Head	14035-4000-01	n/a	n/a	0.020		
5260*	Body	14035-4000-01	B1	A1	0.019		Y
2480	Head	14035-4000-01	n/a	n/a	0.003	BT	
2480	Body	14035-4000-01	B1	A1	0.006		Y

*The highest *reported* SAR from this evaluation in the WiFi and BT bands was on the Scan Variant of the XL-200P in the Body Configuration. The highest SAR values in the WiFi and BlueTooth bands on the System and Scan Variants were in the Body configurations. Spot checks in these bands will be in the Body configuration.

** The WiFi and BT transmitters do not share the same antenna as the LMR antennas. It has been demonstrated on evaluations of similar variants that the LMR antennas have no impact on the WiFi or BT SAR.