



	<u>Date(s) of Evaluation</u> December 2, 10, 17-18, 2010	<u>Test Report Serial No.</u> 112510K66-T1063-S90U	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

APPENDIX D - SAR TEST SETUP & DUT PHOTOGRAPHS


Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	 Vertex Standard
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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FACE-HELD SAR TEST SETUP PHOTOGRAPHS



Face-held SAR Test Setup

Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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FACE-HELD SAR TEST SETUP PHOTOGRAPHS





Face-held - **VX-459-G6-5** Radio with ATU-16B **Antenna (A)** & Li-Ion Extended **Battery (b)**

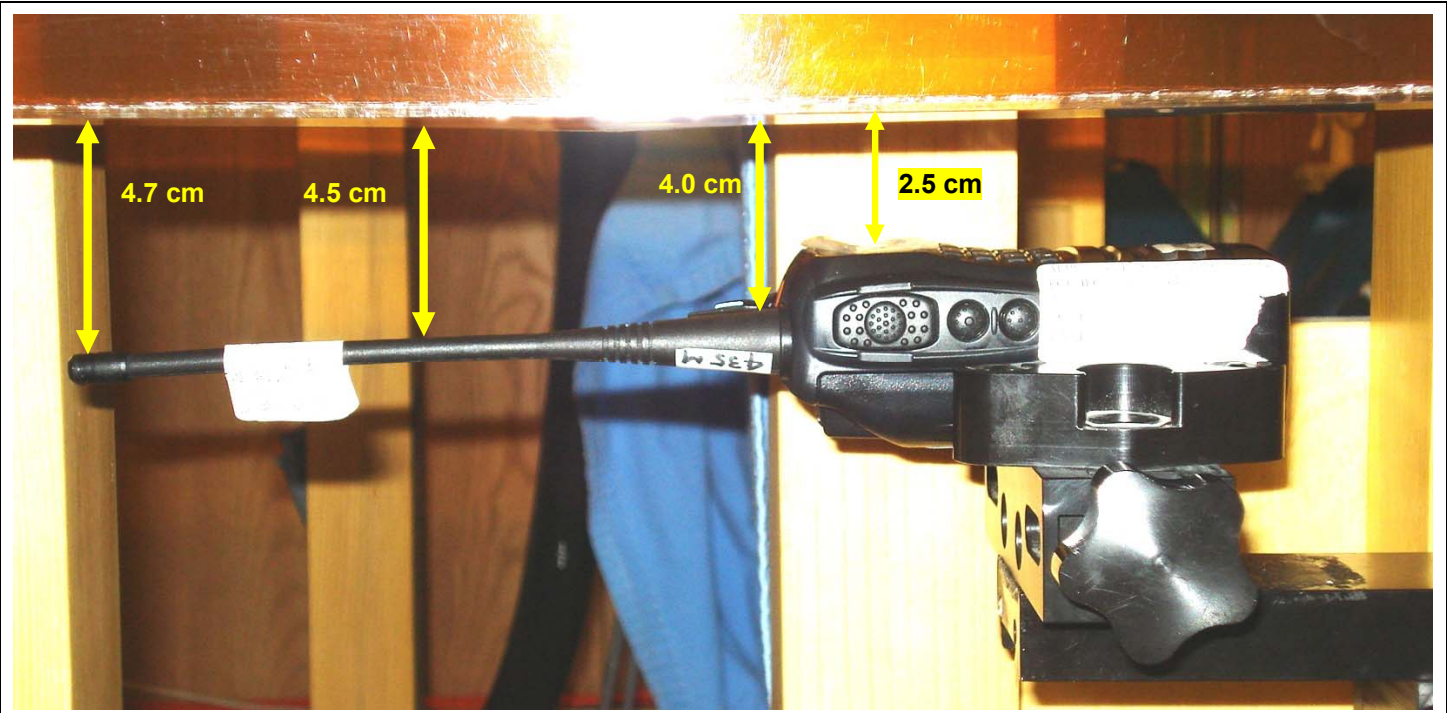


Face-held - **VX-459-G6-5** Radio with ATU-16B **Antenna (A)** & Li-Ion Standard **Battery (a)**

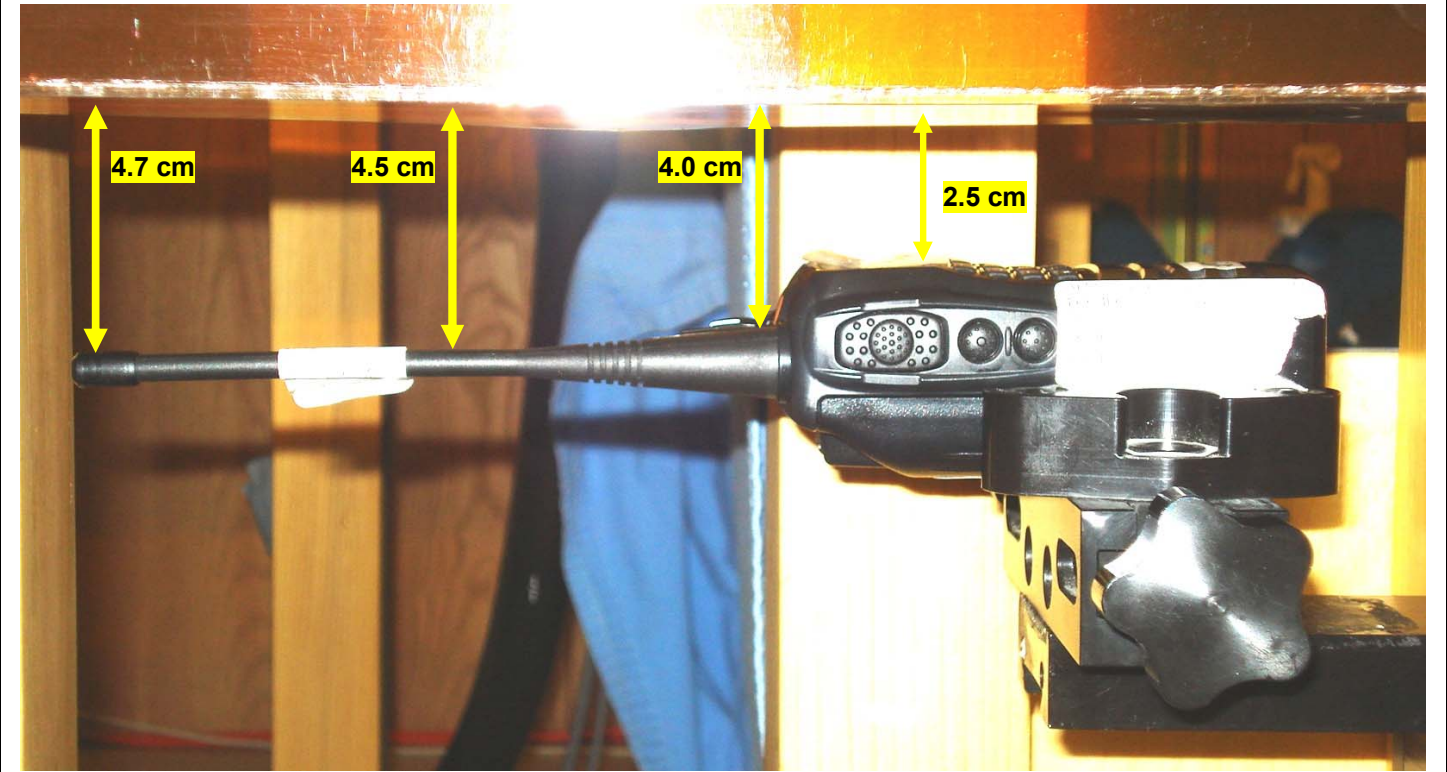
Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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FACE-HELD SAR TEST SETUP PHOTOGRAPHS





Face-held - **VX-459-G6-5** Radio with ATU-16C **Antenna (B)** & Li-Ion Extended **Battery (b)**

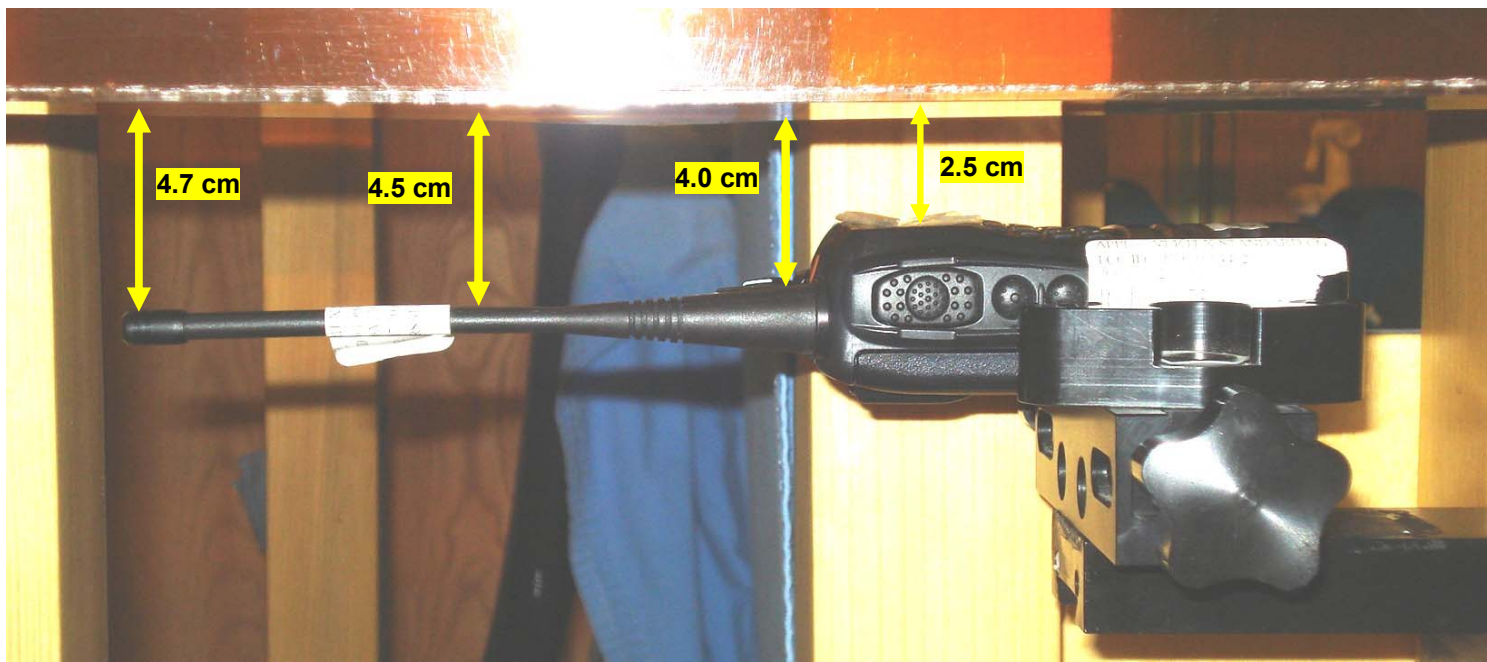


Face-held - **VX-459-G6-5** Radio with ATU-16D **Antenna (C)** & Li-Ion Extended **Battery (b)**


Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	 Vertex Standard
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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FACE-HELD SAR TEST SETUP PHOTOGRAPHS



Face-held - **VX-459-G6-5** Radio with ATU-16D **Antenna (C)** & Li-Ion Standard **Battery (a)**

Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	


FACE-HELD SAR TEST SETUP PHOTOGRAPHS





Face-held - **VX-454-G6-5** Radio with ATU-16B **Antenna (A)** & Li-Ion Extended **Battery (b)**



Face-held - **VX-454-G6-5** Radio with ATU-16B **Antenna (A)** & Li-Ion Standard **Battery (a)**

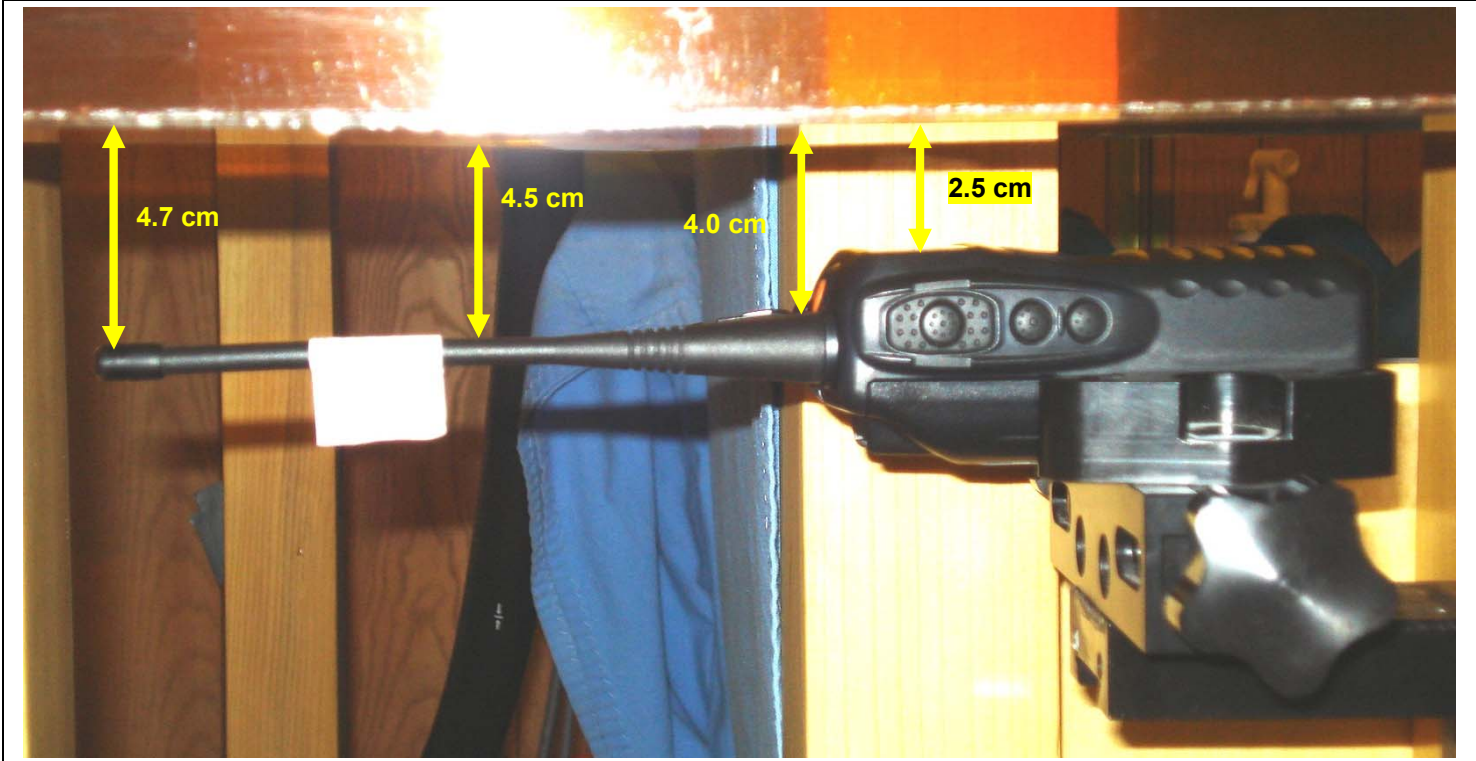
Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

FACE-HELD SAR TEST SETUP PHOTOGRAPHS






Face-held - **VX-454-G6-5** Radio with ATU-16C Antenna (B) & Li-Ion Extended Battery (b)



Face-held - **VX-454-G6-5** Radio with ATU-16D Antenna (C) & Li-Ion Extended Battery (b)

Note: Model VX-451-G6-5 is identical with respect to the VX-454-G6-5 test configurations evaluated and the above-listed separation distances from phantom


Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

BODY-WORN SAR TEST SETUP PHOTOGRAPHS (WITHOUT AUDIO ACCESSORY)

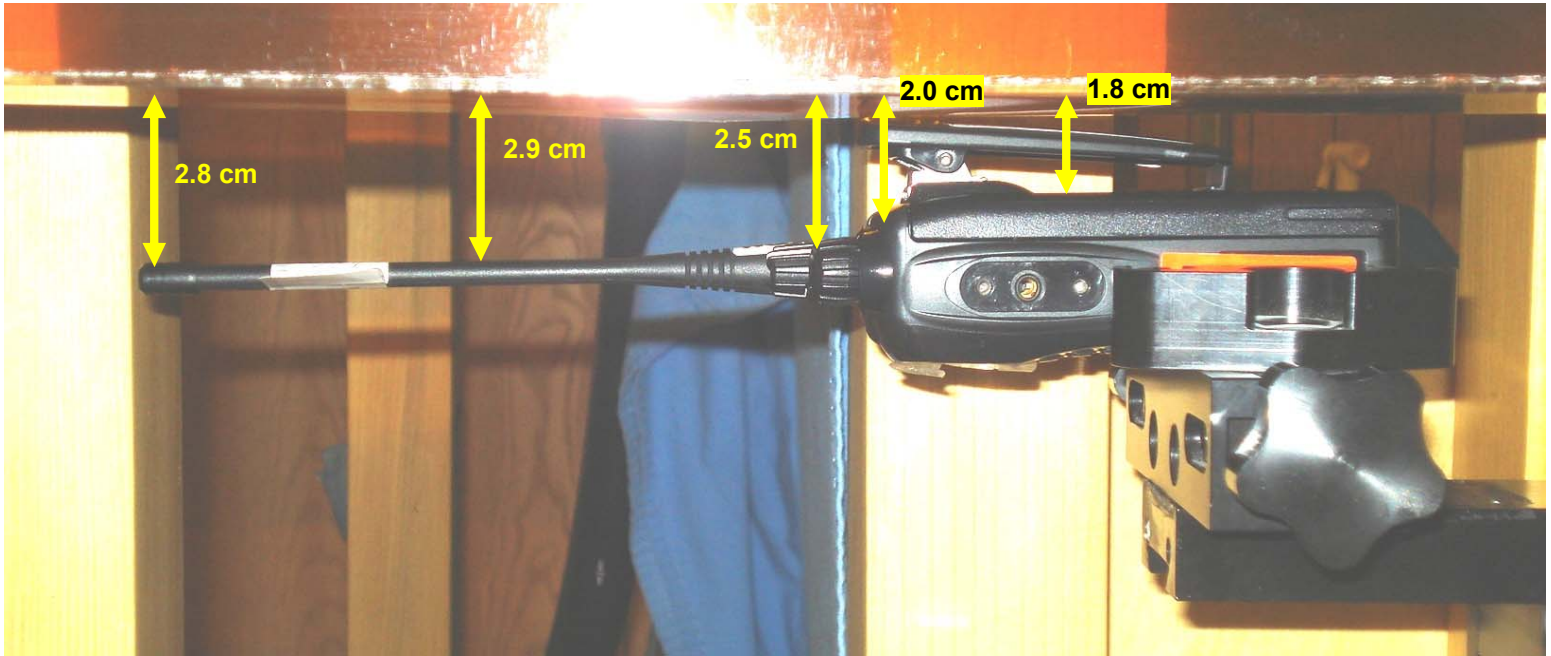


Body-worn SAR Test Setup (Without Audio Accessories)

Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	 Vertex Standard
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Date(s) of Evaluation</u> December 2, 10, 17-18, 2010	<u>Test Report Serial No.</u> 112510K66-T1063-S90U	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	  Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	


BODY-WORN SAR TEST SETUP PHOTOGRAPHS (WITHOUT AUDIO ACCESSORY)





Body-worn – **VX-459-G6-5** Radio with ATU-16B **Antenna (A)** & Li-Ion Standard **Battery (a)** - 1.8 cm Belt-Clip Spacing (Battery Housing & Antenna Parallel to Phantom)

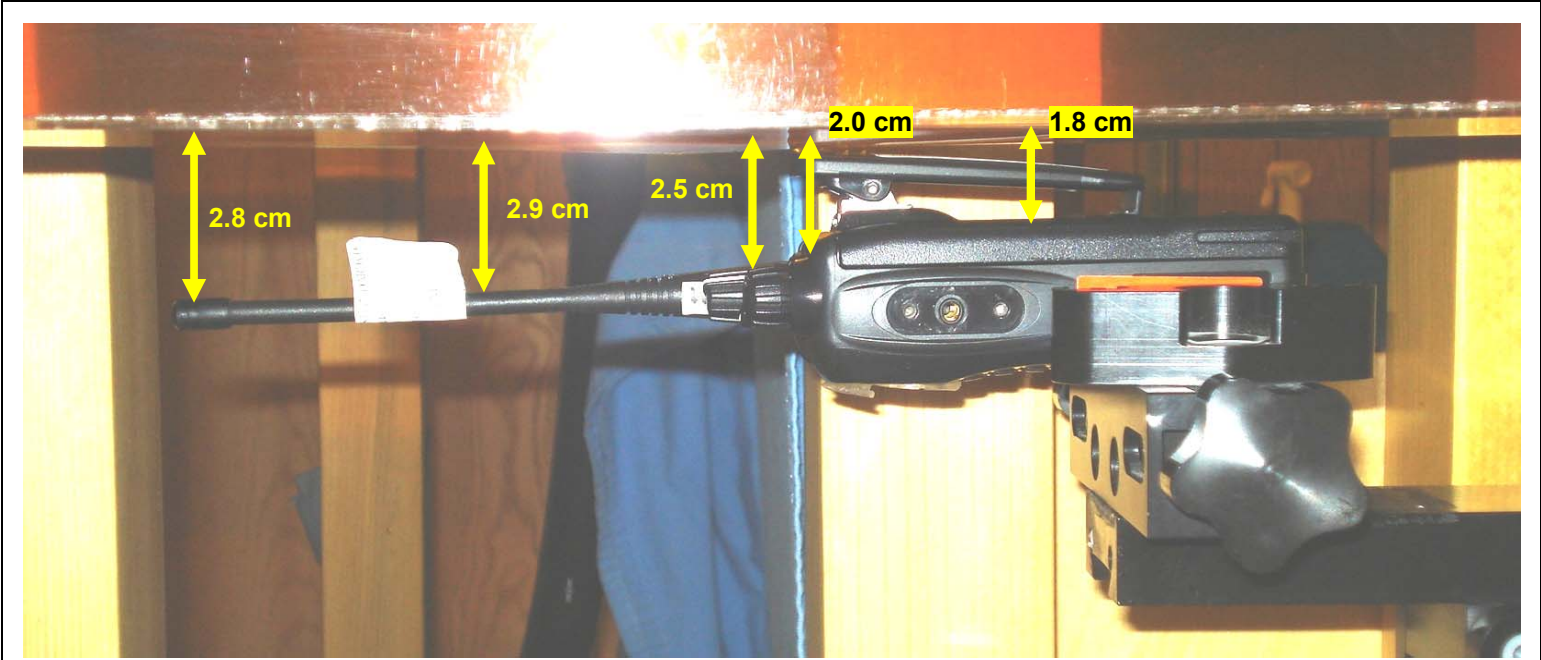


Body-worn – **VX-459-G6-5** Radio with ATU-16C **Antenna (B)** & Li-Ion Standard **Battery (a)** - 1.8 cm Belt-Clip Spacing (Battery Housing & Antenna Parallel to Phantom)

Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Date(s) of Evaluation</u> December 2, 10, 17-18, 2010	<u>Test Report Serial No.</u> 112510K66-T1063-S90U	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	


BODY-WORN SAR TEST SETUP PHOTOGRAPHS (WITHOUT AUDIO ACCESSORY)





Body-worn – **VX-459-G6-5** Radio with ATU-16D **Antenna (C)** & Li-Ion Standard **Battery (a)** -
1.8 cm Belt-Clip Spacing (Battery Housing & Antenna Parallel to Phantom)

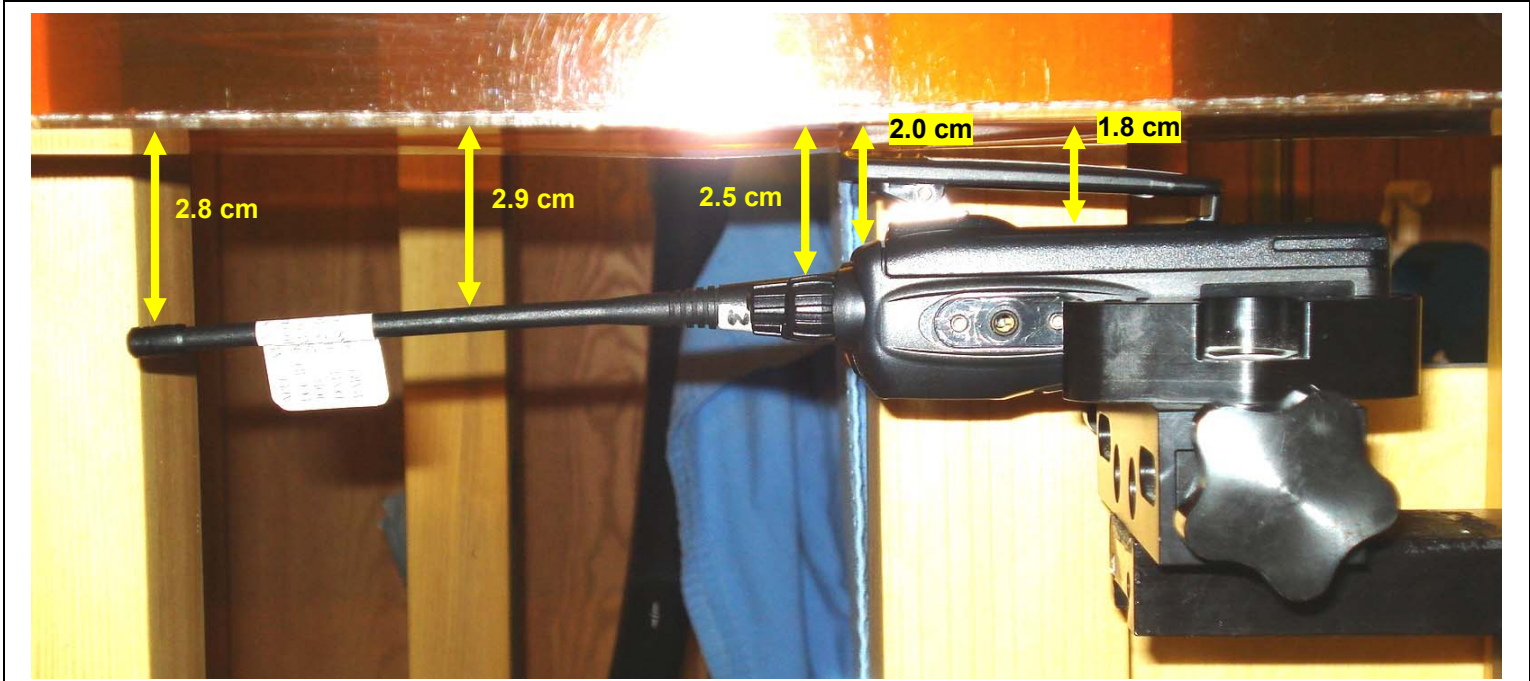


Body-worn – **VX-459-G6-5** Radio with ATU-16D **Antenna (C)** & Li-Ion Extended **Battery (b)** -
1.8 cm Belt-Clip Spacing (Battery Housing & Antenna Parallel to Phantom)

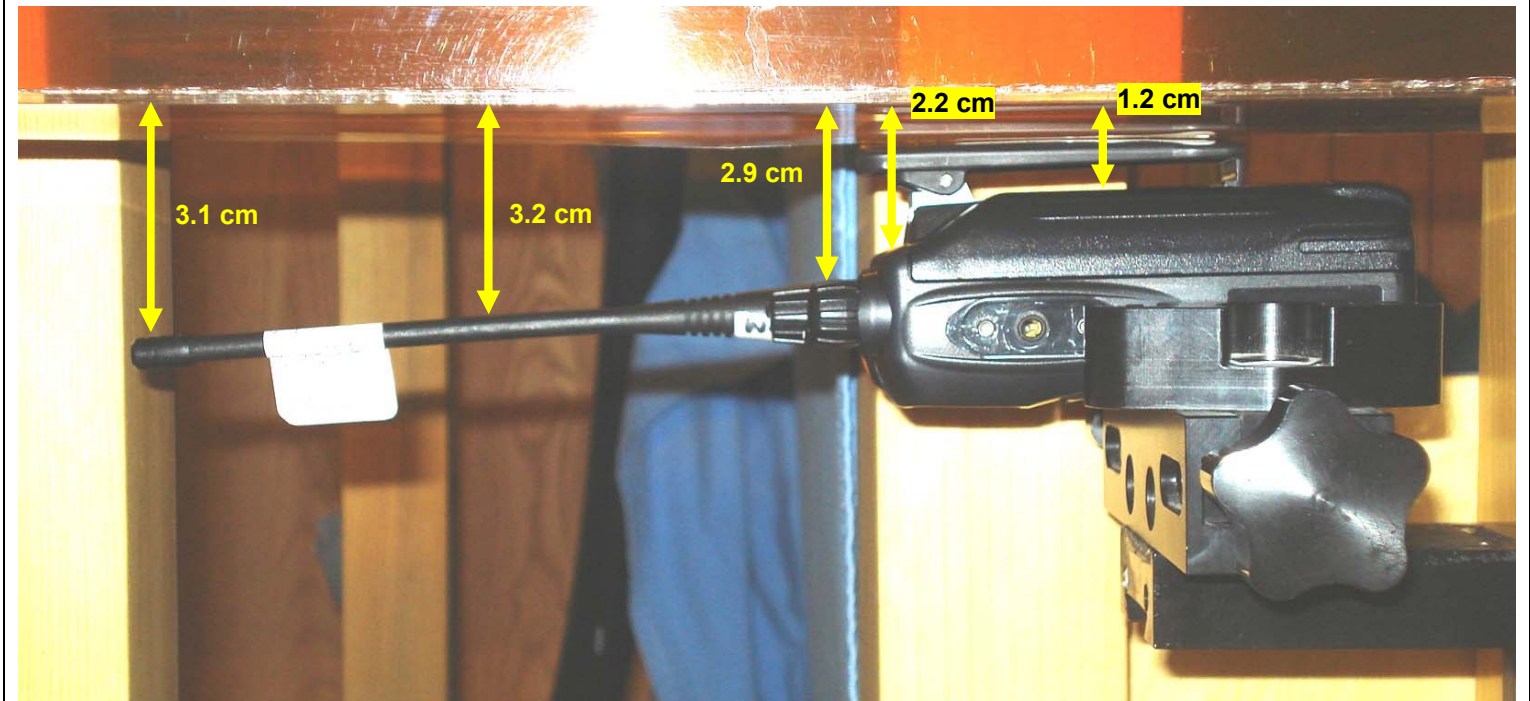
Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	 Vertex Standard
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	


BODY-WORN SAR TEST SETUP PHOTOGRAPHS (WITHOUT AUDIO ACCESSORY)





Body-worn – **VX-454-G6-5** Radio with ATU-16B Antenna (A) & Li-Ion Standard Battery (a) - 1.8 cm Belt-Clip Spacing (Battery Housing & Antenna Parallel to Phantom)

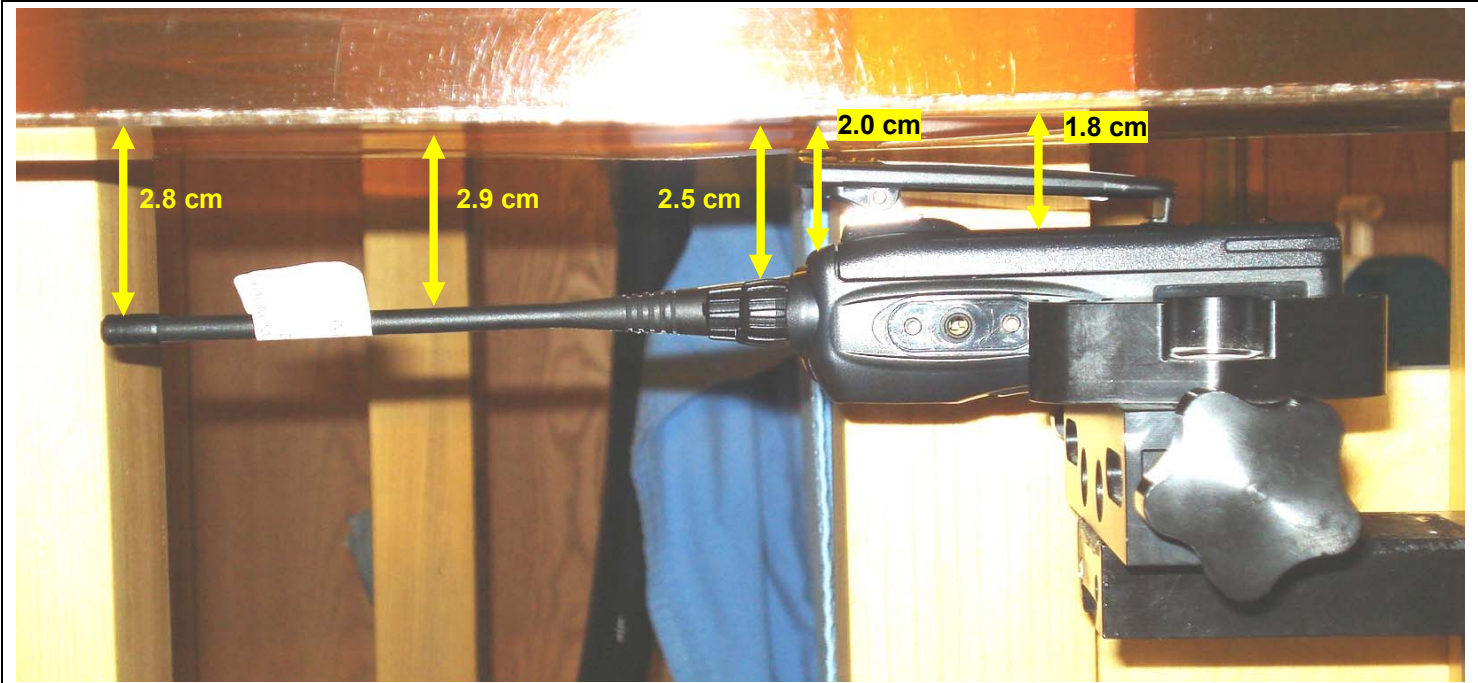


Body-worn – **VX-454-G6-5** Radio with ATU-16B Antenna (A) & Li-Ion Extended Battery (b) - 1.8 cm Belt-Clip Spacing (Battery Housing & Antenna Parallel to Phantom)

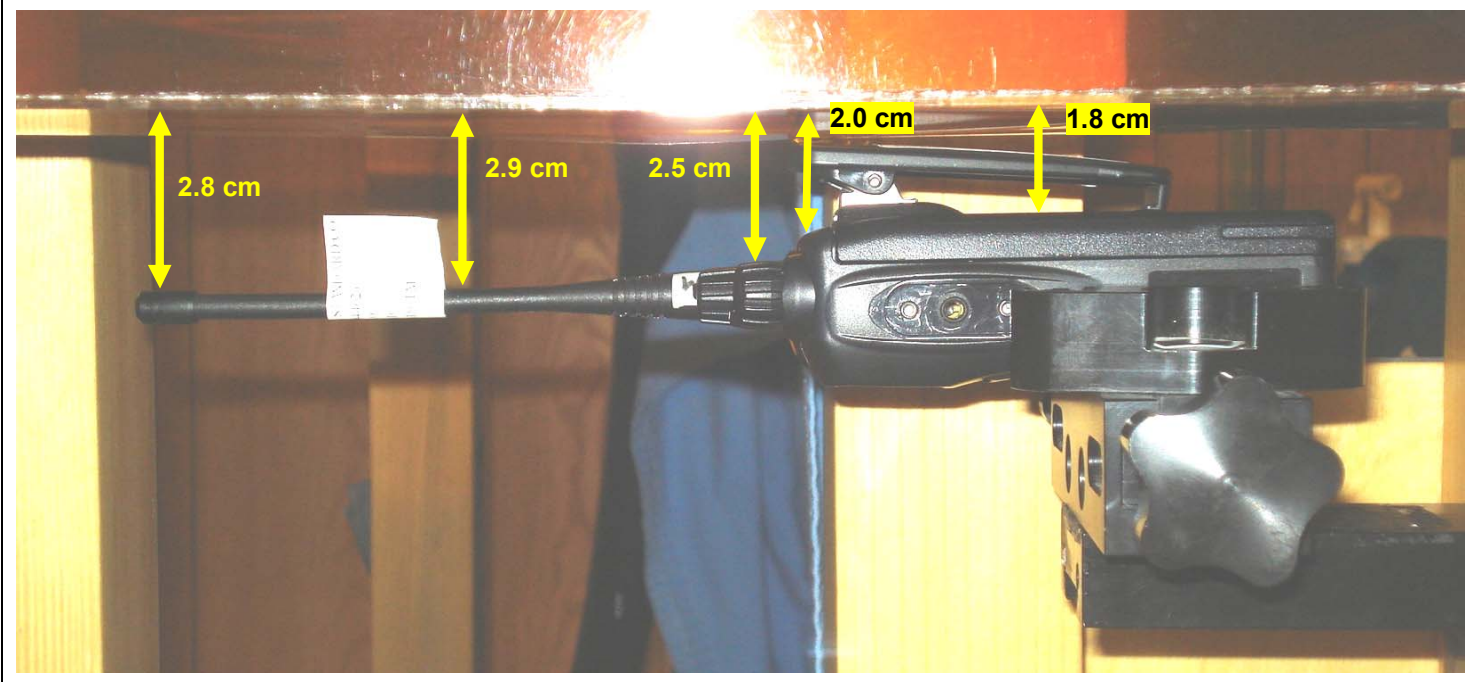
Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

BODY-WORN SAR TEST SETUP PHOTOGRAPHS (WITHOUT AUDIO ACCESSORY)






Body-worn – VX-454-G6-5 Radio with ATU-16C Antenna (B) & Li-Ion Standard Battery (a) - 1.8 cm Belt-Clip Spacing (Battery Housing & Antenna Parallel to Phantom)



Body-worn – VX-454-G6-5 Radio with ATU-16D Antenna (C) & Li-Ion Standard Battery (a) - 1.8 cm Belt-Clip Spacing (Battery Housing & Antenna Parallel to Phantom)

Note: Model VX-451-G6-5 is identical with respect to the VX-454-G6-5 test configurations evaluated and the above-listed separation distances from phantom


Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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BODY-WORN SAR TEST SETUP PHOTOGRAPHS (WITH AUDIO ACCESSORY)



DUT with Belt-Clip Body-worn Accessory (P/N: CLIP-20) & Audio Accessory Category #1 (Headset P/N: VH-215S)


Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	 Vertex Standard
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

BODY-WORN SAR TEST SETUP PHOTOGRAPHS (WITH AUDIO ACCESSORY)



DUT with Belt-Clip Body-worn Accessory (P/N: CLIP-20) & Audio Accessory Category #2 (Earpiece w/ mic/PTT P/N: VH-120S)


Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Date(s) of Evaluation</u> December 2, 10, 17-18, 2010	<u>Test Report Serial No.</u> 112510K66-T1063-S90U	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

BODY-WORN SAR TEST SETUP PHOTOGRAPHS (WITH AUDIO ACCESSORY)



DUT with Belt-Clip Body-worn Accessory (P/N: CLIP-20) & Audio Accessory Category #3 (Speaker-Mic P/N: MH-45B4B)

Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	 Vertex Standard
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	





Front of VX-459-G6-5 Radio with ATU-16B Antenna (A)	Back of VX-459-G6-5 Radio & Antenna A with Standard Li-ion Battery (a)	Back of VX-459-G6-5 Radio & Antenna A with Extended Li-ion Battery (b)
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Whip Antenna (A) P/N: ATU-16B (Length = 160 mm)

Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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	<u>Test Report Issue Date</u> January 04, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	



Front of **VX-459-G6-5** Radio with ATU-16C Antenna (B)




Back of **VX-459-G6-5** Radio & Antenna B with Standard Li-ion Battery (a)



Back of **VX-459-G6-5** Radio & Antenna B with Extended Li-ion Battery (b)



Whip Antenna (B) P/N: ATU-16C (Length = 155 mm)

Applicant:	Vertex Standard Co., Ltd.	FCC ID:	K6610944620	IC:	511B-10944620	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Models:	VX-451-G6-5 / VX-454-G6-5 / VX-459-G6-5			
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