



## FCC RF EXPOSURE SUMMARY SUPPLEMENT FOR PUMP-UP ANTENNA HOUSING

The 622ANHMW 802.11a/b/g/n WLAN Module is utilized within the iX104C5 Rugged Tablet PC with a transmit diversity antenna (MAIN/AUX) supporting MIMO operations. The MAIN transmit diversity antenna is located within the same housing as the co-located WWAN antenna. The co-located WWAN has two (2) alternate antenna types - "Pump-Up" (higher gain) and "Non Pump-Up" (lower gain). The two (2) alternate WWAN antennas have different housing and therefore the WLAN antenna is also located within the alternate housing of the "Pump-Up" and "Non Pump-Up" WWAN antenna. The WLAN antenna is the same part number as the WWAN antenna (SkyCross 25.90A14.001 for "Pump-Up" configuration and SkyCross 25.90A0P.001 for the "Non Pump-Up" configuration). Preliminary evaluations were performed for both WLAN antenna housing configurations and the "Non Pump-Up" WLAN housing configuration is shown in the separate SAR test report exhibit (test report serial no. 092110Q2G-T1046-S15W). The MAIN (Chain A) transmit diversity antenna is located at the upper left hand side on the top edge of the tablet pc ("0-degrees landscape" LCD display orientation) above the display screen.

Below is a summary of the SAR evaluation for the WLAN MAIN transmit diversity antenna located within the iX104C5 Tablet PC between the "Pump-Up" antenna housing in comparison to the maximum SAR level evaluated for the "Non Pump-Up" WWAN antenna housing (test report serial no. 092110Q2G-T1046-S15W). The evaluation comparison results show that the SAR levels are significantly lower for the "Pump-Up" antenna housing configuration and therefore only the "Non Pump-Up" antenna housing configuration for the WLAN was fully evaluated for SAR as shown in the separate SAR test report (test report serial no. 092110Q2G-T1046-S15W). Note: the WLAN AUX transmit diversity antenna and location is identical for both configurations and therefore comparison evaluations for the AUX antenna are not reported.

		BOD	Y (LAP-I	HELD)	SAR	MEASU	REME	NT C	OMPARIS	SON SU	MMARY						
ANTENNA HOUSING CONFIG. & PART NO	HOUSING Freq. CONFIG. & Band Mode Mod. PART NO. (GHz) Mode Mod. Freq. Ch. Bata Position Distance to Planar to Planar Phantom Phantom		Rate Position to Planar		Rate Position to Plan		Rate Position to Plan		Rate Position to Planar		Distance to Planar	WLAN Transmi Diversit Antenna	/ Test	SAR Drift During Test		Measured SAR Level	
				MHz		Mbps	- Hull		- mantoni	Antonia	dBm	dB	W/kg	1g/Pk			
NON PUMP-UP 25.90A0P.001	2.4	802.11n	OFDM	2442	7	HT0	Bottom	Side	Touch	MAIN	16.8	-0.035	0.460	1g			
PUMP-UP 25.90A14.001	2.4	802.11n	OFDM	2442	7	HT0	Bottom	Side	Touch	MAIN	16.8	-0.029	0.147	1g			
NON PUMP-UP 25.90A0P.001	5.3	802.11n	OFDM	5300	60	HT0	Bottom	Side	Touch	MAIN	16.8	-0.150	0.606	1g			
PUMP-UP 25.90A14.001	5.3	802.11n	OFDM	5300	60	HT0	Bottom	Side	Touch	MAIN	16.8	-0.082	0.262	1g			
	9	SAR LIMIT(	S)			BOI	BODY SPATIAL P		SPATIAL PEA	ATIAL PEAK		RF EXPOSURE CATEGORY					
FCC 47 CFR	2.1093	Heal	th Canada S	Safety Co	de 6	1.6 W	//kg	ave	raged over 1	gram	General P	opulation /	Uncontro	lled			

Applicant:	Xplo	re Technologies Corp.	FCC ID: Q2GI6200-XPL		IC:	4596A-I6200XPL		
DUT Type:	Mode	Model: 622ANHMW 802.11abgn WLAN Mini-PCI Express Card installed in iX104C5 Tablet PC (LMA)						
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WLAN - 11n - HTO - 2442 MHz - Main - Bottom Side - XPL 04 - Pump Up/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm

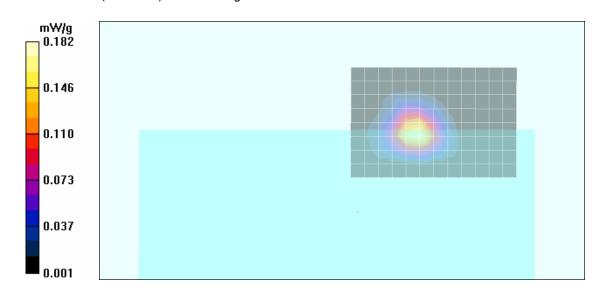
Maximum value of SAR (measured) = 0.179 mW/g

WLAN - 11n - HTO - 2442 MHz - Main - Bottom Side - XPL 04 - Pump Up/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=3mm

Reference Value = 9.41 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.072 mW/g Maximum value of SAR (measured) = 0.182 mW/g



WLAN - 11n - HTO - 2442 MHz - Main - Bottom Side - XPL 04 - Non Pump Up/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm

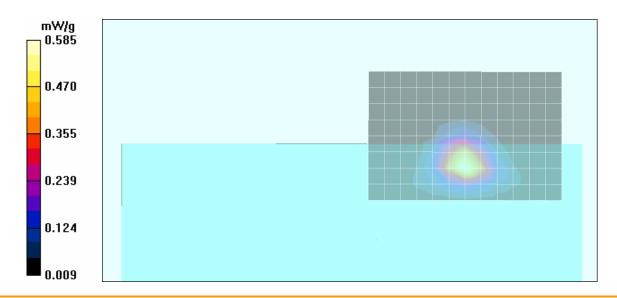
Maximum value of SAR (measured) = 0.609 mW/g

WLAN - 11n - HTO - 2442 MHz - Main - Bottom Side - XPL 04 – Non Pump Up/Zoom Scan (8x8x8)/Cube 0: Measurement grid: Reference Value = 17.5 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.955 W/kg

SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.585 mW/g



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WLAN - 11n -HT0 - 5300 MHz - Main - Bottom Side - XPL 04 - Pump-Up/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm

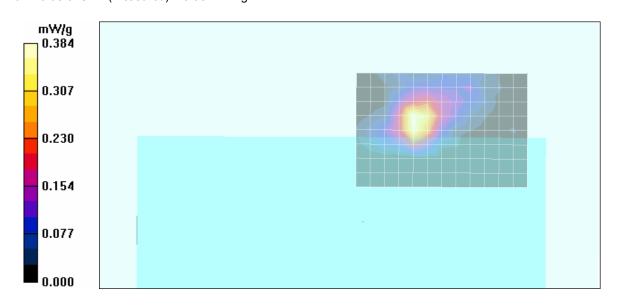
Maximum value of SAR (measured) = 0.385 mW/g

WLAN - 11n -HT0 - 5300 MHz - Main - Bottom Side - XPL 04 - Pump-Up/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=3mm

Reference Value = 8.80 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 0.699 W/kg SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.384 mW/g



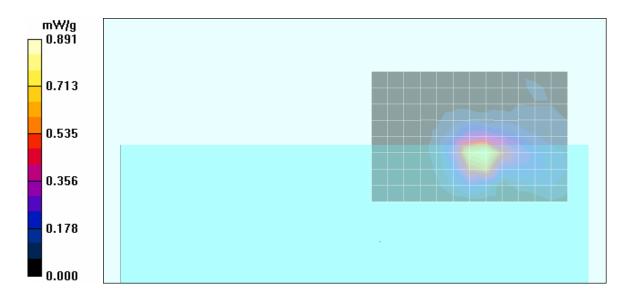
WLAN - 11n -HT0 - 5300 MHz - Main - Bottom Side - XPL 04 - Pump-Up/Area Scan (9x13x1): Measurement grid: Maximum value of SAR (measured) = 0.832 mW/g

WLAN - 11n -HT0 - 5300 MHz - Main - Bottom Side - XPL 04 - Pump-Up/Zoom Scan (8x8x8)/Cube 0: Measurement grid: Reference Value = 13.2 V/m; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.606 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.891 mW/g



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WLAN MAIN Transmit Antenna Housing (WWAN Pump-Up)



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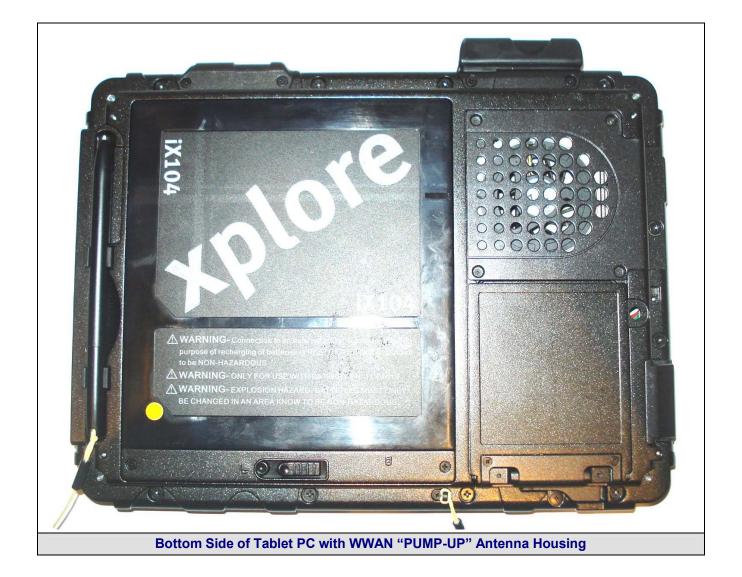


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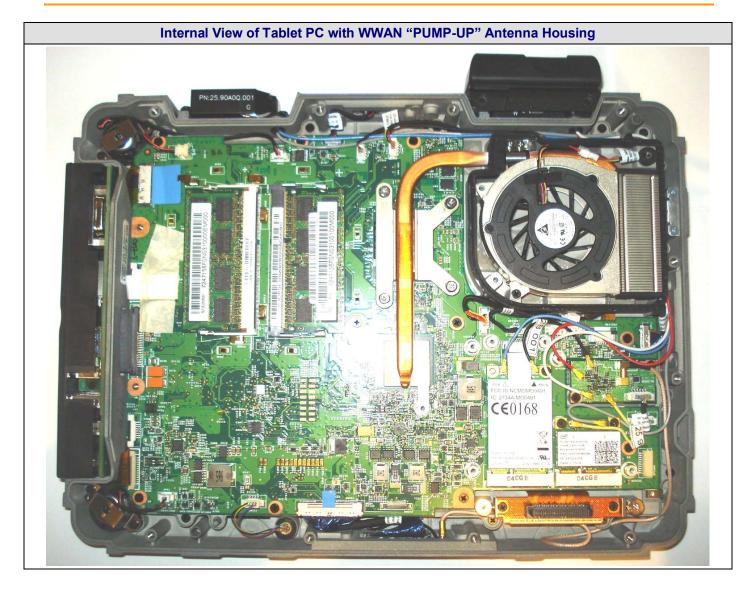
ANTENNA LOCATION(S) - BOTTOM SIDE OF iX104C5 TABLET PC

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