

## **SAR Test exclusion documentation according to FCC KDB 447498 and RSS-102**

**Report identification number: 1-7794/18-01-11 Exclusion (FCC\_IC)**

Contains the module with the following certification numbers	
FCC ID	DMOSRX
IC number	2099A-SRX
HVIN (Hardware Version Identification Number)	RX Pedal
PMN (Product Marketing Name)	XS Wireless Digital
FVIN (Firmware Version Identification Number)	0.041
HMN (Host Marketing Name)	-/-

This report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

### **Document authorised:**



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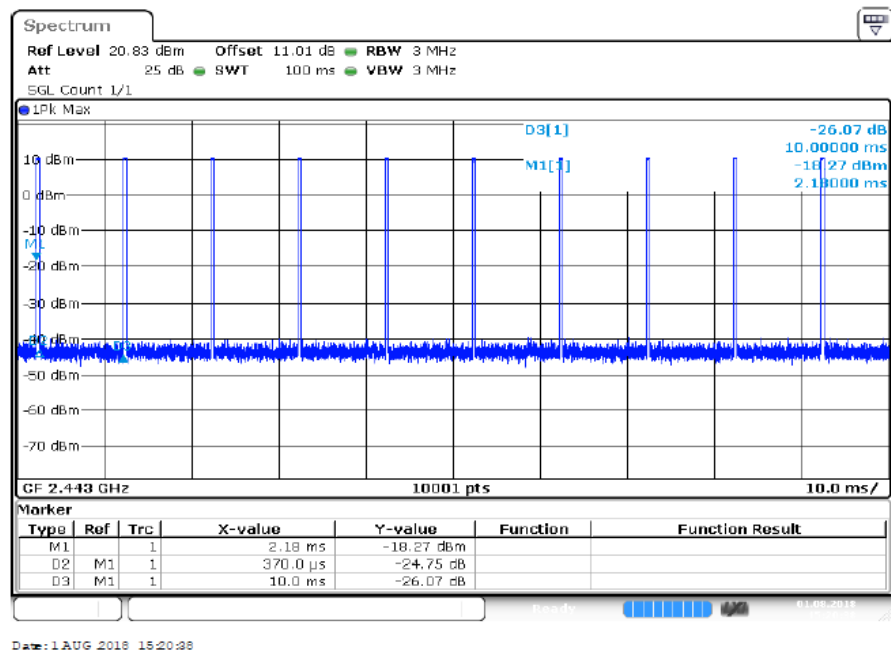
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**EUT technologies:**

Technologies:	Max. rated power: (AVG)
Proprietary ISM 2400 to 2483.5 MHz	Declared: <b>-3.3 dBm *</b>

\*) maximum output power declared by customer: 11dBm PEAK EIRP, duty cycle 3.7%

**NOTE:** Detailed measurement results and duty cycle are provided in CTC advanced report 1-7794/18-01-11.

**Duty Cycle of Rx variants:**

The TX time between M1 and D2 is 0.37 ms.  
 The idle time between M1 and D3 is 10.0 ms.  
 This results in a duty cycle of 3.7%

## **SAR test exclusion according to KDB447498 (General RF Exposure Guidance v06)**

Equation from Chapter 4.3.1: Standalone SAR test exclusion considerations page 11 and ff.

(1) Standalone SAR test exclusion for 100 MHz to 6 GHz at test separation distances  $\leq 50\text{mm}$

$$(\text{Threshold}_{1\text{-g};10\text{-g}}) \times d_{\text{separation}} / f^{0.5}$$

where

Threshold<sub>1-g;10-g</sub> is 3 for 1-g; **7.5 for 10-g**

$d_{\text{separation}}$  is the min. test separation distance; 5mm is used if the distance is less

$f$  is the RF channel transmit frequency

The table below gives the calculated maximal power that could be used for source based time averaged conducted or radiated power, adjusted for tune up tolerance. If this is at or below the calculated value the DUT is exempted from SAR evaluation.

frequency [MHz]	$d_{\text{separation}}$ [mm]	Threshold <sub>10-g</sub>	Powerlimit [mW]	P <sub>max-declared</sub>		Exclusion
				[dBm]	[mW]	
2450.00	<b>5</b>	7.5	23.96	-3.30	0.47	yes

\*) 7.5 is applied as threshold, as the device is only used with the foot (limit for extremities).

## **SAR test exclusion according to RSS-102 Issue 5 Section 2.5.1/Table 1**

The table below gives the calculated maximal power that could be used for source based time averaged conducted or radiated power, adjusted for tune up tolerance. If this is at or below the calculated value the DUT is exempted from SAR evaluation.

frequency [MHz]	$d_{\text{separation}}$ [mm]	tissue volume	Powerlimit [mW]	P <sub>max-declared</sub>		Exclusion
				[dBm]	[mW]	
2450.00	<b>5</b>	1 g	10.00	-3.30	0.47	yes

\*) Factor 2.5 is applied on the threshold, as the device is only used with the foot (limit for extremities).