



RF EXPOSURE ANALYSIS

Sample Identification:

Products: Radio remote control mod. TTX8
FCC ID: RTF-TTX8

Module Identification

Frequency Range (MHz): 902 – 928 **Output (mW):** 5,90

Analysis:

Standalone SAR test exclusion considerations are defined in the KDB 447498 chapter 4.3.1 “At 100 MHz to 6 GHz and for test separation distances ≤ 50 mm”, head or body SAR exclusion threshold is defined with formula

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. separation distance, mm})] \times \sqrt{f(\text{GHz})} \leq 3$ for 1-g SAR.

Using separation distance of 5 mm with the formula above results:

$$(5,90 \text{ mW} / 5 \text{ mm}) * \sqrt{0,90 \text{ GHz}} = 1,12$$

Thus for portable use the SAR exclusion condition is fulfilled and SAR evaluation is not required for separation distance of 5 mm or more



In addition, as marked in the below table (KDB 447498 D01 V06 Annex A), for EUT operating at 900 MHz the SAR Test Exclusion Threshold is 16 mW at 5 mm separation distance.
The highest measured power level of EUT is 5,90 mW.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

The SAR exclusion condition is fulfilled and SAR evaluation is not required.

Thiene, May 30th, 2018

Ing. Renzo Beghetto
(Laboratory Manager)