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RF Exposure Evaluation

FCC ID: XUJTSGUN

According to KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

EUT Specification

EUT	TPMS WAND
Model/Type reference:	X-431 TSGUN
Listed Model(s):	/
Frequency band (Operating)	<input checked="" type="checkbox"/> BT: 2.402GHz ~ 2.480GHz <input checked="" type="checkbox"/> BLE: 2.402GHz ~ 2.480GHz <input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> Others
Device category	<input checked="" type="checkbox"/> Portable (<5mm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> fixed (>20cm separation) <input type="checkbox"/> Others ____
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Antenna gain (Max)	2.0dBi

Limit

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f_(GHz)] ≤ 3.0

Where

-f_(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.



Measurement Result

BLE						
Type	Channel frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Calculation Value	Threshold Value
GFSK	2402	4.68	4±1	5	0.980	3.0
	2440	4.91	4±1	5	0.988	3.0
	2480	4.67	4±1	5	0.996	3.0

BT						
Type	Channel frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Calculation Value	Threshold Value
GFSK	2402	4.55	4±1	5	0.980	3.0
	2441	4.66	4±1	5	0.988	3.0
	2480	4.67	4±1	5	0.996	3.0
π/4 -DQPSK	2402	5.92	5±1	6	1.234	3.0
	2441	5.97	5±1	6	1.244	3.0
	2480	5.95	5±1	6	1.254	3.0
8-DPSK	2402	6.32	6±1	7	1.554	3.0
	2441	6.42	6±1	7	1.566	3.0
	2480	6.36	6±1	7	1.579	3.0

Note

For a more detailed features description, please refer to the RF Test Report.

*****THE END*****