

RF Exposure Evaluation declaration

Product Name : Analog GPS Speedometer
Trade Name : Omata
Model No. : one
FCC ID. : 2AOIMOMATA1

Applicant : Haltian Products Oy
Address : Yrttipellontie 1D, 90230 Oulu, Finland

Date of Receipt : Nov. 15, 2017
Date of Declaration : Jan. 30, 2018
Report No. : 17B0248R-SAUSP03V00
Report Version : V1.0



The declaration results relate only to the samples calculated.

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1. RF Exposure Evaluation

1.1. Limits

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
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	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	Analog GPS Speedometer
Test Mode	Transmit mode
Test Condition	RF Exposure Evaluation

Output Power into Antenna & RF Exposure Evaluation Distance:

BT4.0				
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Min. Test Distance (mm)	SAR Test Exclusion Threshold (mW)
00	2402	3.0061	5	10
19	2440	2.9923	5	10
39	2480	2.9854	5	10

ANT+				
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Min. Test Distance (mm)	SAR Test Exclusion Threshold (mW)
00	2402	2.9648	5	10
39	2440	2.9376	5	10
78	2480	2.9580	5	10

Measurement Result:

According to KDB 447498 D01 Mobile Portable RF Exposure v06, operation frequency = 2450MHz and antenna separation distance = 5mm, SAR Test Exclusion Threshold = 10mW

The Device max peak output power = 3.0061mW and less than 4mW, the SAR/MPE measurement is not necessary.