

RF EXPOSURE REPORT

FCC ID: XGB-CWBB0056**IC: 3879A-CWBB0056**

Report Reference No.: 26EFSB08005 05091

Date of issue: 2026-10-12

Applicant's name.....: Voyetra Turtle Beach, Inc.

Address.....: 15822 Bernardo Center Drive, Suite 105, San Diego, CA
92127, USA

Equipment.....: Wireless Controller

Trade Mark.....: N/A

Model: CWBB0056

Ratings.....: I/P: 5VDC 1.5A (Provided by USB-C)
3.7VDC 2100mAh (Provided by the battery)

Testing Laboratory: DongGuan ShuoXin Electronic Technology Co., Ltd.

Address.....: Zone A, 1F, No. 6, XinGang Road YuanGang Street,
XinAn District, ChangAn Town, DongGuan City, GuangDong,
ChinaAccording: 447498 D04 Interim General RF Exposure Guidance v01
RSS-102 Issue 6 December 15,2023

Test Engineer:



Blue Qiu

Responsible Engineer :



Leo Chen

Authorized Signatory:



Smile Wang

MPE CALCULATION METHOD:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

For BLE 1 (Only for antenna type 1, Antenna gain = -0.05dBi)

MAX Output Power: **1.246dBm@2402MHz** $ERP=1.246-0.05-2.15= -0.954\text{dBm}$

For BLE 2 (Only for antenna type 2, Antenna gain = -1.08dBi)

MAX Output Power: **3.092dBm@2402MHz** $ERP=3.092-1.08-2.15= -0.138\text{dBm}$

For SRD (Only for antenna type 2 and antenna type 3)

Antenna type 2, Antenna gain = -1.08dBi:

MAX Output Power: **3.073dBm@2402MHz** $ERP=3.073-1.08-2.15= -0.157\text{dBm}$

Antenna type 3, Antenna gain = 1.05dBi:

MAX Output Power: **1.186dBm@2402MHz** $ERP=1.186+1.05-2.15= 0.086\text{dBm}$

WORSE CASE:

$$10^{0.3092}=2.04\text{mW} < 3\text{mW}$$

Then SAR evaluation is not required.

Note: Does not support synchronous transmission.

For ISED:

6.3 SAR exemption limits

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Frequency (MHz)	≤ 5 mm(mW)	10 mm (mW)	15 mm(mW)	20 mm(mW)	25 mm(mW)	30 mm(mW)	35 mm(mW)	40 mm(mW)	45 mm(mW)	> 50 mm(mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

6.3 SAR
evaluation
Limit:

6.6 Field reference level exposure exemption limits

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5} W$ (adjusted for tune-up tolerance), where f is in MHz
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834} W$ (adjusted for tune-up tolerance), where f is in MHz
- at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance)

6.6 RF
exposure
evaluation:

E.i.r.p. calculation:

For BLE 1 (Only for antenna type 1, Antenna gain = -0.05dBi)

MAX Output Power: **1.246dBm@2402MHz** Max.EIRP=1.246-0.05= 1.196dBm

For BLE 2 (Only for antenna type 2, Antenna gain = -1.08dBi)

MAX Output Power: **3.092dBm@2402MHz** Max.EIRP =3.092-1.08= 2.012dBm

For SRD (Only for antenna type 2 and antenna type 3)

Antenna type 2, Antenna gain = -1.08dBi:

MAX Output Power: **3.073dBm@2402MHz** Max.EIRP =3.073-1.08= 1.993dBm

Antenna type 3, Antenna gain = 1.05dBi):

MAX Output Power: **1.186dBm@2402MHz** Max.EIRP =1.186+1.05= 2.236dBm

E.i.r.p.
calculation:

Worst case:

$10^{0.3092}=2.04\text{mW} < 3\text{mW}$

(according to 6.3 SAR exemption limit)

Note: Does not support synchronous transmission.

END