Maximum Permissible Exposure Evaluation

FCC ID:2AAH9-3700A

1. Client Information

Applicant	:	Navori Inc
Address	:	1000 rue Sherbrooke st W,Suite 710, Montreal, QC, Canada H3A 3G4
Manufacturer	:	Shenzhen MicoRose Technology Co., Ltd.
Address	:	8B2A, Daqing Building, southeast of the intersection of Shennan Road and Guangshen Expressway, Futian District, Shenzhen, China

2. General Description of EUT

EUT Name	:	StiX	
Model(s) No.	:	3700	
Model Difference	:	----	
Product Description	:	Operation Frequency:	Bluetooth V4.2: 2402MHz~2480MHz 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz U-NII-1: 5180MHz~5240MHz U-NII-3: 5745MHz~5825MHz
		RF Output Power:	BT: 5.267dBm (Max) BLE: 6.57dBm (Max) 2.4G WiFi: 17.667dBm (Max) 5G WiFi: 12.72dBm (Max)
		Antenna Gain:	2dBi RP-SMA Antenna
Power Supply	:	Adapter (FJ-SW7260502500DU) Input: 100-240V~ 50/60Hz 0.4A Max Output: 5V⎓2500mA	
Software Version	:	android 9.0	
Hardware Version	:	V1	
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.			

Note: More test information about the EUT please refer the RF Test Report.

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MPE Calculations for WIFI

1. Antenna Gain:

RP-SMA Antenna: 2dBi.

2. EUT Operation Condition:

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

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=(PG)/4\pi R^2$$

Where

S: power density
P: power input to the antenna
G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
R: distance to the center of radiation of the antenna

4. Test Result:

Worst Maximum MPE Result								
Bluetooth								
Mode	N TX	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm^2) [S]
GFSK	1	2402	4.944	5±1	6	2	20	0.0013
		2441	4.346	4±1	5	2	20	0.0010
		2480	3.235	3±1	4	2	20	0.0008
π/4-DQPSK	1	2402	4.885	5±1	6	2	20	0.0013
		2441	4.404	4±1	5	2	20	0.0010
		2480	3.24	3±1	4	2	20	0.0008
8-DPSK	1	2402	5.267	5±1	6	2	20	0.0013
		2441	4.812	5±1	6	2	20	0.0013
		2480	3.762	4±1	5	2	20	0.0010
BLE								
1Mbps	1	2402	6.57	7±1	8	2	20	0.0020
	1	2440	6.134	6±1	7	2	20	0.0016
	1	2480	4.935	5±1	6	2	20	0.0013

2.4G WiFi								
802.11b	1	2412	17.667	18±1	19	2	20	0.0250
	1	2437	17.579	18±1	19	2	20	0.0250
	1	2462	17.244	17±1	18	2	20	0.0199
802.11g	1	2412	17.097	17±1	18	2	20	0.0199
	1	2437	17.392	17±1	18	2	20	0.0199
	1	2462	17.121	17±1	18	2	20	0.0199
802.11n20	1	2412	16.533	17±1	18	2	20	0.0199
	1	2437	16.565	17±1	18	2	20	0.0199
	1	2462	16.413	16±1	17	2	20	0.0158
802.11n40	1	2422	13.575	14±1	15	2	20	0.0100
	1	2437	15.262	15±1	16	2	20	0.0126
	1	2452	14.595	15±1	16	2	20	0.0126
5G WiFi								
11A	1	5180	12.72	13±1	14	2	20	0.0079
	1	5200	12.65	13±1	14	2	20	0.0079
	1	5240	12.39	12±1	13	2	20	0.0063
	1	5745	6.41	6±1	7	2	20	0.0016
	1	5785	6.82	7±1	8	2	20	0.0020
	1	5825	7.15	7±1	8	2	20	0.0020
11N20	1	5180	12.68	13±1	14	2	20	0.0079
	1	5200	12.52	13±1	14	2	20	0.0079
	1	5240	12.20	12±1	13	2	20	0.0063
	1	5745	6.37	6±1	7	2	20	0.0016
	1	5785	6.80	7±1	8	2	20	0.0020
	1	5825	7.24	7±1	8	2	20	0.0020
11N40	1	5190	10.77	11±1	12	2	20	0.0050
	1	5230	12.62	13±1	14	2	20	0.0079
	1	5755	6.93	7±1	8	2	20	0.0020

	1	5795	7.29	7±1	8	2	20	0.0020
11AC20	1	5180	12.36	12±1	13	2	20	0.0063
	1	5200	12.61	13±1	14	2	20	0.0079
	1	5240	12.27	12±1	13	2	20	0.0063
	1	5745	6.16	6±1	7	2	20	0.0016
	1	5785	6.51	7±1	8	2	20	0.0020
	1	5825	6.95	7±1	8	2	20	0.0020
11AC40	1	5190	10.71	11±1	12	2	20	0.0050
	1	5230	12.36	12±1	13	2	20	0.0063
	1	5755	6.66	7±1	8	2	20	0.0020
	1	5795	7.10	7±1	8	2	20	0.0020
11AC80	1	5210	12.15	12±1	13	2	20	0.0063
	1	5775	7.50	8±1	9	2	20	0.0025

Note:
(1) N_{TX}= Number of Transmit Antennas
(2) RF Output power specifies that Maximum Conducted Peak Output Power.

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm^2)
300-1,500	F/1500
1,500-100,000	1.0

For BT&BLE&2.4GWIFI&5GWIFI

MPE limit S: 1mW/ cm^2

The MPE is calculated as **0.0250** ***mW / cm² < limit 1mW / cm²***. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

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

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

-----END OF REPORT-----