

Maximum Permissible Exposure Report

Product Information

EUT	: 4K HDMI Dongle
Model Number	: SN8BKCX("X" on behalf of one of 26 English Letters A-Z)
Model Declaration	: All the same except for model name
Test Model	: SN8BKCB
Power Supply	: DC 5V by adapter
Hardware version	: SMB.306.03
Software version	: SEI700TM-userdebug 11 RTT0.210618.003 291 release-keys
Sample ID	: TZ210802518-2#&TZ210802518-4#

Bluetooth

Bluetooth Version	: V5.0
Channel Number	: 79 Channels for Bluetooth BR/EDR(DSS) 40 Channels for BLE (DTS)
Modulation Technology	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth BR/EDR (DSS) GFSK for BLE (DTS)
Data Rates	: Bluetooth BR/EDR (DSS): 1/2/3Mbps BLE (DTS): 1Mbps
Antenna Type And Gain	: Internal Antenna 1: 2.65dBi

WiFi

WLAN	: Supported IEEE 802.11a/b/g/n/ac
WLAN FCC Operation Frequency	: IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz / 5180-5240MHz / 5745-5825MHz IEEE 802.11n HT40: 2422-2452MHz / 5190-5230MHz / 5755-5795MHz IEEE 802.11a: 5180-5240MHz / 5745-5825MHz IEEE 802.11ac VHT20: 5180-5240MHz / 5745-5825MHz IEEE 802.11ac VHT40: 5190-5230MHz / 5755-5795MHz IEEE 802.11ac VHT80: 5210MHz / 5775MHz
WLAN Channel Number	: 11 Channels for 2412-2462MHz(IEEE 802.11b/g/n HT20) 4 Channels for 5180-5240MHz (IEEE 802.11a/ac VHT20/n HT20) 2 Channels for 5190-5230MHz (IEEE 802.11ac VHT40/n HT40) 1 Channels for 5210MHz (IEEE 802.11ac VHT80) 5 Channels for 5745-5825MHz(IEEE 802.11a/ac VHT20/n HT20) 2 Channels for 5755-5795MHz(IEEE 802.11ac VHT40/n HT40) 1 Channels for 5775MHz(IEEE 802.11ac VHT80)
WLAN Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Type And Gain	: Antenna 1: 2.65dBi(Max.), for TX/RX (WLAN 2.4G Band) 4.1dBi(Max.), for TX/RX (WLAN 5.2G Band) 3.8dBi (Max.), for TX/RX (WLAN 5.8G Band) Antenna 2: 2.29dBi(Max.), for TX/RX (WLAN 2.4G Band)

4.19dBi(Max.), for TX/RX (WLAN 5.2G Band)
3.83dBi(Max.), for TX/RX (WLAN 5.8G Band)
802.11n/ac/ax support 2T2R.[Antenna 1 and Antenna 2]

Note: Antenna position refer to EUT Photos.

2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer evaluation method

ANSI C95.1-1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

4. MPE Calculation Method

Predication of MPE limit at a given distance

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 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

5. Antenna Information

This Product can only use antennas certificated as follows provided by manufacturer;

Antenna Gain and type refer to Product information

6. Conducted Power

2.4G Band:

Bluetooth(BDR+EDR)

TestMode	Antenna	Channel	Result[dBm]
DH5	Ant1	2402	3.57
		2441	2.87
		2480	2.67
2DH5	Ant1	2402	6.06
		2441	5.33
		2480	5.08
3DH5	Ant1	2402	6.35
		2441	5.61
		2480	5.3

Bluetooth(BLE)

TestMode	Antenna	Channel	Result[dBm]
BLE_1M	Ant1	2402	3.5
		2440	2.73
		2480	2.56

WiFi 2.4GHz Band

TestMode	Antenna	Channel	Result[dBm]
11B	Ant1	2412	15.56
	Ant2	2412	16.13
	Ant1	2437	14.39
	Ant2	2437	14.90
	Ant1	2462	15.40
	Ant2	2462	15.80
11G	Ant1	2412	10.58
	Ant2	2412	11.06
	Ant1	2437	9.50
	Ant2	2437	9.99
	Ant1	2462	10.34
	Ant2	2462	10.71
11N20MIMO	Ant1	2412	9.68
	Ant2	2412	9.25
	total	2412	12.5
	Ant1	2437	8.68
	Ant2	2437	9.14
	total	2437	11.9
	Ant1	2462	9.50
	Ant2	2462	9.92
11N40MIMO	total	2462	12.7
	Ant1	2412	8.32
	Ant2	2412	7.89
	total	2412	11.1
	Ant1	2437	8.13
	Ant2	2437	7.70
	total	2437	10.9
	Ant1	2462	8.24
	Ant2	2462	7.70
	total	2462	11.0

5G Band
UNII-1 Band

TestMode	Antenna	Channel	Result[dBm]
11A	Ant1	5180	8.69
	Ant2	5180	9.88
	Ant1	5200	8.95
	Ant2	5200	10.37
	Ant1	5240	9.51
	Ant2	5240	10.67
11N20MIMO	Ant1	5180	9.01
	Ant2	5180	10.04
	total	5180	12.6
	Ant1	5200	9.19
	Ant2	5200	10.60
	total	5200	13.0
	Ant1	5240	9.74
	Ant2	5240	10.95
	total	5240	13.4
11N40MIMO	Ant1	5190	6.01
	Ant2	5190	7.58
	total	5190	9.9
	Ant1	5230	6.10
	Ant2	5230	7.39
	total	5230	9.8
11AC20MIMO	Ant1	5180	9.10
	Ant2	5180	10.12
	total	5180	12.7
	Ant1	5200	9.21
	Ant2	5200	10.62
	total	5200	13.0
	Ant1	5240	9.81
	Ant2	5240	11.03
	total	5240	13.5
11AC40MIMO	Ant1	5190	6.02
	Ant2	5190	7.59
	total	5190	9.9
	Ant1	5230	6.06
	Ant2	5230	7.40
	total	5230	9.8
11AC80MIMO	Ant1	5210	2.24
	Ant2	5210	4.02
	total	5210	6.23

UNII-3 Band

TestMode	Antenna	Channel	Result[dBm]
11A	Ant1	5745	12.62
	Ant2	5745	14.50
	Ant1	5785	12.67
	Ant2	5785	14.60
	Ant1	5825	13.02
	Ant2	5825	15.32
11N20MIMO	Ant1	5745	12.84
	Ant2	5745	13.72
	total	5745	16.3
	Ant1	5785	11.87
	Ant2	5785	13.75
	total	5785	15.9
	Ant1	5825	12.09
	Ant2	5825	14.37
11N40MIMO	Ant1	5755	11.47
	Ant2	5755	13.35
	total	5755	15.5
	Ant1	5795	11.75
	Ant2	5795	13.81
	total	5795	15.9
11AC20MIMO	Ant1	5745	11.68
	Ant2	5745	13.71
	total	5745	15.8
	Ant1	5785	11.95
	Ant2	5785	13.91
	total	5785	16.0
	Ant1	5825	12.16
	Ant2	5825	14.55
11AC40MIMO	Ant1	5755	11.36
	Ant2	5755	13.42
	total	5755	15.5
	Ant1	5795	11.74
	Ant2	5795	13.89
	total	5795	16.0
11AC80MIMO	Ant1	5775	10.09
	Ant2	5775	12.06
	total	5775	14.2

7. Manufacturing Tolerance

Bluetooth(BDR+EDR)

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	3.0	2.0	2.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ -DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.5	4.5	4.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8-DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.5	5.0	4.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0

Bluetooth(BLE)

GFSK(1Mbps) (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	2.5	2.0	2.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

WiFi 2.4GHz Band – Antenna 1

IEEE 802.11b(Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	13.5	14.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	10.0	8.5	9.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	9.0	8.0	8.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	7.5	7.5	7.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0

WiFi 2.4GHz Band – Antenna 2

IEEE 802.11b (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.5	14.0	15.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	10.5	9.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.5	8.5	9.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	7.0	7.0	7.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0

UNII-1 Band – Antenna 1

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	8.0	8.0	9.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	8.5	8.5	9.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	8.5	8.5	9.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 38	Channel 46	--
Target (dBm)	5.5	5.5	--
Tolerance $\pm$ (dB)	1.0	1.0	--
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	--
Target (dBm)	5.5	5.5	--
Tolerance $\pm$ (dB)	1.0	1.0	--
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	--	--
Target (dBm)	1.5	--	--
Tolerance $\pm$ (dB)	1.0	--	--

UNII-1 Band – Antenna 2

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	9.0	9.5	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	9.5	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	10.0	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 38	Channel 46	--
Target (dBm)	7.0	6.5	--
Tolerance $\pm$ (dB)	1.0	1.0	--
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	--
Target (dBm)	7.0	6.5	--
Tolerance $\pm$ (dB)	1.0	1.0	--
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	--	--
Target (dBm)	3.5	--	--
Tolerance $\pm$ (dB)	1.0	--	--

UNII-3 Band – Antenna 1

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	12.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 151	Channel 159	--
Target (dBm)	10.5	11.0	--
Tolerance $\pm$ (dB)	1.0	1.0	--
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	--
Target (dBm)	10.5	11.0	--
Tolerance $\pm$ (dB)	1.0	1.0	--
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	--	--
Target (dBm)	9.5	--	--
Tolerance $\pm$ (dB)	1.0	--	--

UNII-3 Band – Antenna 2

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.5	14.0	14.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.0	13.0	13.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.0	13.0	13.5
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 151	Channel 159	--
Target (dBm)	12.5	13.0	--
Tolerance $\pm$ (dB)	1.0	1.0	--
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	--
Target (dBm)	12.5	13.0	--
Tolerance $\pm$ (dB)	1.0	1.0	--
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	--	--
Target (dBm)	11.5	--	--
Tolerance $\pm$ (dB)	1.0	--	--

8. Measurement Results

8.1 Standalone MPE

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

Bluetooth(BDR+EDR)

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW					
GFSK	4.00	2.5119	2.65	1.8408	100%	0.0009	1.0000
$\pi/4$ -DQPSK	6.50	4.4668	2.65	1.8408	100%	0.0016	1.0000
8-DPSK	6.50	4.4668	2.65	1.8408	100%	0.0016	1.0000

Bluetooth(BLE)

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW					
GFSK	3.50	2.2387	2.65	1.8408	100%	0.0008	1.0000

WiFi 2.4GHz Band – Ant 1

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW					
IEEE 802.11b	16.00	39.8107	2.65	1.8408	100%	0.0146	1.0000
IEEE 802.11g	11.00	12.5893	2.65	1.8408	100%	0.0046	1.0000
IEEE 802.11n HT20	10.00	10.0000	2.65	1.8408	100%	0.0037	1.0000
IEEE 802.11n HT40	8.50	7.0795	2.65	1.8408	100%	0.0026	1.0000

WiFi 2.4GHz Band – Ant 2

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW					
IEEE 802.11b	16.50	44.6684	2.29	1.6943	100%	0.0151	1.0000
IEEE 802.11g	11.50	14.1254	2.29	1.6943	100%	0.0048	1.0000
IEEE 802.11n HT20	10.00	10.0000	2.29	1.6943	100%	0.0034	1.0000
IEEE 802.11n HT40	8.50	7.0795	2.29	1.6943	100%	0.0024	1.0000

UNII-1 Band – Ant 1

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW					
IEEE 802.11a	10.00	10.0000	4.10	2.5704	100%	0.0051	1.0000
IEEE 802.11n HT20	10.00	10.0000	4.10	2.5704	100%	0.0051	1.0000
IEEE 802.11ac VHT20	10.00	10.0000	4.10	2.5704	100%	0.0051	1.0000
IEEE 802.11n HT40	6.50	4.4668	4.10	2.5704	100%	0.0023	1.0000
IEEE 802.11ac VHT40	6.50	4.4668	4.10	2.5704	100%	0.0023	1.0000
IEEE 802.11ac VHT80	2.50	1.7783	4.10	2.5704	100%	0.0009	1.0000

UNII-1 Band – Ant 2

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW					
IEEE 802.11a	11.00	12.5893	4.19	2.6242	100%	0.0066	1.0000
IEEE 802.11n HT20	11.00	12.5893	4.19	2.6242	100%	0.0066	1.0000
IEEE 802.11ac VHT20	11.00	12.5893	4.19	2.6242	100%	0.0066	1.0000
IEEE 802.11n HT40	8.00	6.3096	4.19	2.6242	100%	0.0033	1.0000
IEEE 802.11ac VHT40	8.00	6.3096	4.19	2.6242	100%	0.0033	1.0000
IEEE 802.11ac VHT80	4.50	2.8184	4.19	2.6242	100%	0.0015	1.0000

UNII-3 Band – Ant 1

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW					
IEEE 802.11a	13.50	22.3872	3.80	2.3988	100%	0.0107	1.0000
IEEE 802.11n HT20	13.00	19.9526	3.80	2.3988	100%	0.0095	1.0000
IEEE 802.11ac VHT20	12.50	17.7828	3.80	2.3988	100%	0.0085	1.0000
IEEE 802.11n HT40	12.00	15.8489	3.80	2.3988	100%	0.0076	1.0000
IEEE 802.11ac VHT40	12.00	15.8489	3.80	2.3988	100%	0.0076	1.0000
IEEE 802.11ac VHT80	10.50	11.2202	3.80	2.3988	100%	0.0054	1.0000

UNII-3 Band – Ant 2

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW					
IEEE 802.11a	15.50	35.4813	3.83	2.4155	100%	0.0171	1.0000
IEEE 802.11n HT20	14.50	28.1838	3.83	2.4155	100%	0.0136	1.0000
IEEE 802.11ac VHT20	14.50	28.1838	3.83	2.4155	100%	0.0136	1.0000
IEEE 802.11n HT40	14.00	25.1189	3.83	2.4155	100%	0.0121	1.0000
IEEE 802.11ac VHT40	14.00	25.1189	3.83	2.4155	100%	0.0121	1.0000
IEEE 802.11ac VHT80	12.50	17.7828	3.83	2.4155	100%	0.0085	1.0000

Remark:

1. Output power including tune-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

8.2 Simultaneous Transmission MPE

Bluetooth + Wi-Fi

Maximum MPE(mW/cm ²) BT Ant.	Maximum MPE(mW/cm ²) WIFI Ant.1	Maximum MPE(mW/cm ²) WIFI Ant.2	ΣMPE (mW/cm ²)	Limit (mW/cm ²)	Results
0.0016	0.0151	0.0171	0.0338	1.0000	PASS

Remark:

1. Output power including tune-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

9. Conclusion

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

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