

RF Exposure Report

Application No.: SZCR2404001419AT
Applicant: Applied Digital Research Corporation DBA SKYBOXE
Address of Applicant: 15 Paradise Plaza, 299, Sarasota, FL 34239. US
Manufacturer: Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Manufacturer: 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
Factory: Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Factory: 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
Equipment Under Test (EUT):
EUT Name: 5G Fixed Wireless Access Router
Model No.: SB5GCPE-301
Trade Mark: SKYBOXE
FCC ID: 2AWJS-SB5GCPE301
Standard(s) : FCC Rules 47 CFR §2.1091
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2024-04-19
Date of Test: 2024-04-19 to 2024-05-24
Date of Issue: 2024-06-03

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-06-03		Original

Authorized for issue by:			
		Calvin Weng	
		Calvin Weng/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	



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2 General Information

2.1 General Description of E.U.T.

Product Type:	<input type="checkbox"/> Portable device
	<input checked="" type="checkbox"/> Mobile device
	<input type="checkbox"/> Fixed device

2.2 Details of E.U.T.

Power supply:	DC12V/3A from power adapter Power adapter M/N: XH1200-3000W Power adapter Input: AC100-240V, 50/60Hz, 0.8A Power adapter Output: DC12V/3A
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2.4G Wi-Fi:

Operation Frequency:	802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ax: OFDMA (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11 802.11n(HT40)/ax(HE40): 7
Channel Spacing:	5MHz
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz
Antenna Type:	PCB Antenna
Antenna Gain:	Ant1: 2.61dBi, Ant2: 2dBi



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Inspection Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

5G Wi-Fi:

Operation Frequency/Number of channels (20MHz):	U-NII-1:5180-5240MHz (4 Channels) U-NII-2A: 5260-5320MHz (4 Channels) U-NII-2C: 5500-5700MHz (11 Channels) U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1:5190-5230MHz (2 Channels) U-NII-2A: 5270-5310MHz (2 Channels) U-NII-2C: 5510-5670MHz (5 Channels) U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1:5210MHz (1 Channel) U-NII-2A: 5290MHz (1 Channels) U-NII-2C: 5530-5610MHz (2 Channels) U-NII-3: 5775MHz (1 Channel)
Operation Frequency / Number of channels (160MHz):	U-NII-1/2A: 5250MHz (1 Channel); U-NII-2C: 5570MHz (1 Channel)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): 20MHz 802.11n(HT40)/ac(VHT40)/ax(HEW40): 40MHz 802.11ac(VHT80)ax(HEW80): 80MHz
DFS Function:	Master
TPC Function:	Not Support TPC function
Antenna Type:	PCB Antenna
Antenna Gain:	U-NII-1:Ant1: 2.86dBi, Ant2: 2.68dBi; U-NII-2A:Ant1: 1.86dBi, Ant2: 3.08dBi; U-NII-2C:Ant1: 2.79dBi, Ant2: 3.11dBi; U-NII-3:Ant1: 2.38dBi, Ant2: 3.05dBi

WWAN Module (FCC ID: XMR2023RM520NGL, this module has been certified)

WCDMA

Frequency band:	Band	Tx (MHz)	Rx (MHz)
	BAND II	1850-1910	1930-1990
	BAND IV	1710-1755	2110-2155
	BAND V	824-829	869-894
Type of Modulation:	UL QPSK DL QPSK		

LTE

Frequency band:	Band	Uplink (MHz)	Downlink (MHz)
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz



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Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

	LTE Band 5	824 to 849 MHz	869 to 894 MHz	
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz	
	LTE Band 12	699 to 716 MHz	729 to 746 MHz	
	LTE Band 13	777 to 787 MHz	746 to 756 MHz	
	LTE Band 14	788 to 798 MHz	758 to 768 MHz	
	LTE Band 17	704 to 716 MHz	734 to 746 MHz	
	LTE Band 25	1850 to 1915MHz	1930 to 1995 MHz	
	LTE Band 26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz	
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz	
	LTE Band 30	2305 to 2315 MHz	2350 to 2360 MHz	
	LTE Band 38	2570 to 2620 MHz	2570 to 2620 MHz	
	LTE Band 41	2496 to 2690MHz	2496 to 2690MHz	
	LTE Band 42	3450 to 3550 MHz	3450 to 3550 MHz	
	LTE Band 43	3700 to 3800 MHz	3700 to 3800 MHz	
	LTE Band 66	1710 to 1780 MHz	2110 to 2180 MHz	
	LTE Band 71	663 to 698 MHz	617 to 652 MHz	
	LTE CA: LTE UL CA_2C; LTE UL CA_5B; LTE UL CA_7C; LTE UL CA_38C; LTE UL CA_41C; LTE UL CA_42C; LTE UL CA_43C; LTE UL CA_66B; LTE UL CA_66C; LTE UL CA_2A-4A; LTE UL CA_2A-5A; LTE UL CA_2A-7A; LTE UL CA_2A-12A; LTE UL CA_2A-13A; LTE UL CA_2A-30A; LTE UL CA_2A-66A; LTE UL CA_4A-5A; LTE UL CA_4A-7A; LTE UL CA_4A-12A; LTE UL CA_4A-13A; LTE UL CA_4A-30A; LTE UL CA_5A-7A; LTE UL CA_5A-30A; LTE UL CA_5A-66A; LTE UL CA_12A-30A; LTE UL CA_12A-66A; LTE UL CA_13A-66A; LTE UL CA_14A-30A;			
	Type of Modulation:	UL QPSK,16QAM, 64QAM, 256QAM DL QPSK,16QAM, 64QAM, 256QAM		

NR			
Frequency band:	Band	Uplink (MHz)	Downlink (MHz)
	NR Band n2	1850 to 1910 MHz	1930 to 1990 MHz
	NR Band n5	824 to 849 MHz	869 to 894 MHz
	NR Band n7	2500 to 2570 MHz	2620 to 2690 MHz
	NR Band n12	699 to 716 MHz	729 to 746 MHz
	NR Band n13	777 to 787 MHz	746 to 756 MHz
	NR Band n14	788 to 798 MHz	758 to 768 MHz
	NR Band n25	1850 to 1915MHz	1930 to 1995 MHz
NR Band n26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz	



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	NR Band n26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz
	NR Band n30	2305 to 2315 MHz	2350 to 2360 MHz
	NR Band n38	2570 to 2620 MHz	2570 to 2620 MHz
	NR Band n41	2496 to 2690 MHz	2496 to 2690 MHz
	NR Band n66	1710 to 1780 MHz	2110 to 2180 MHz
	NR Band n70	1695 to 1710 MHz	1995 to 2020 MHz
	NR Band n71	663 to 698 MHz	617 to 652 MHz
	NR Band n77*	3700 to 3980 MHz 3450 to 3550 MHz	3700 to 3980 MHz 3450 to 3550 MHz
	NR Band n78*	3700 to 3800 MHz 3450 to 3550 MHz	3700 to 3800 MHz 3450 to 3550 MHz
Type of Modulation:	DFT-s-Pi/2-BPSK, DFT-s-QPSK, DFT-s-16QAM, DFT-s-64QAM, DFT-s-256QAM, CP-QPSK, CP-16QAM, CP-64QAM, CP-256QAM		

Antenna Gain:	WCDMA Band II:	0.24dBi	WCDMA Band IV:	1.42dBi
	WCDMA Band V:	1.42dBi		
	LTE Band 2:	0.24dBi(Ant0)	LTE Band 4:	1.42dBi(Ant0)
	LTE Band 5:	1.42dBi(Ant0)	LTE Band 7:	0.45dBi(Ant0)
	LTE Band 12:	-0.25dBi(Ant0)	LTE Band 13:	1.37dBi(Ant0)
	LTE Band 14:	1.82dBi(Ant0)	LTE Band 17:	-0.2dBi(Ant0)
	LTE Band 25:	0.24dBi(Ant0)	LTE Band 26:	1.59dBi(Ant0)
	LTE Band 30:	-3.27dBi(Ant0)	LTE Band 38:	2.2dBi(Ant0)
	LTE Band 41:	2.34dBi(Ant0)	LTE Band 42:	0.89dBi(Ant1)
	LTE Band 43:	0.89dBi(Ant1)	LTE Band 48:	0.99dBi(Ant0)
	LTE Band 66:	1.42dBi(Ant0)	LTE Band 71:	1.19dBi(Ant0)
	NR Band n2:	0.24dBi (Ant0)	NR Band n5:	1.42dBi (Ant0)
	NR Band n7:	0.45dBi (Ant0)	NR Band n12:	-0.25dBi (Ant0)
	NR Band n13:	1.37dBi (Ant0)	NR Band n14:	1.82dBi (Ant0)
	NR Band n25:	0.24dBi (Ant0)	NR Band n26:	1.59dBi (Ant0)
	NR Band n30:	-3.27dBi (Ant0)	NR Band n38 MIMO:	2.2dBi (Ant0); 2.08dBi (Ant1)
	NR Band n41 MIMO:	2.34dBi (Ant0); 2.19dBi (Ant1)	NR Band n48 MIMO:	0.99dBi (Ant0); 0.89dBi (Ant1)
	NR Band n66:	1.42dBi (Ant0)	NR Band n70:	1.09dBi (Ant1)
NR Band n71:	1.19dBi (Ant0)	NR Band n77	0.99dBi (Ant0);	



		MIMO:	0.89dBi (Ant1)
NR Band n78 MIMO:	0.99dBi (Ant0); 0.89dBi (Ant2)		
<p>CA:</p> <p>UL CA_2C; UL CA_5B; UL CA_7C; UL CA_38C; UL CA_41C; UL CA_43C; UL CA_66C; UL CA_66B; UL CA_48C; UL CA_42C; UL CA_2A-4A; UL CA_2A-5A; UL CA_2A-7A; UL CA_2A-12A; UL CA_2A-13A; UL CA_2A-30A; UL CA_2A-66A; UL CA_4A-5A; UL CA_4A-7A; UL CA_4A-12A; UL CA_4A-13A; UL CA_4A-30A; UL CA_5A-7A; UL CA_5A-30A; UL CA_5A-66A; UL CA_12A-30A; UL CA_12A-66A; UL CA_13A-66A; UL CA_14A-30A;</p> <p>ENDC:</p> <p>DC_13A_n66A;DC_5A_n2A;DC_14A_n2A;DC_30A_n2A;DC_2A_n5A; DC_30A_n5A;DC_66A_n5A;DC_2A_n12A;DC_66A_n12A;DC_2A_n66A; DC_5A_n66A;DC_12A_n66A;DC_14A_n66A;DC_30A_n66A;DC_12A_n2A; DC_66A_n2A;DC_71A_n2A;DC_12A_n41A;DC_71A_n66A;DC_2A_n71A DC_66A_n71A;DC_66A_n25A;DC_25A_n41A;DC_12A_n78A;DC_13A_n78A DC_25A_n78A;DC_12A_n77A;DC_13A_n77A;DC_14A_n77A;DC_26A_n78A DC_2A_n78A;DC_26A_n41A;DC_2A_n41A;DC_7A_n5A;DC_38A_n78A DC_7A_n71A;DC_41A_n78A;DC_5A_n7A;DC_12A_n7A;DC_66A_n7A DC_13A_n2A;DC_48A_n5A;DC_48A_n66A;DC_7A_n66A;DC_2A_n48A DC_5A_n48A;DC_13A_n48A;DC_66A_n48A;DC_4A_n78A;DC_20A_n77A DC_5A_n78A;DC_4A_n41A;DC_66A_n38A;DC_2A_n38A;DC_12A_n38A DC_4A_n38A;DC_5A_n38A;DC_66A_n78A;DC_12A_n25A;DC_25A_n77A DC_2A_n77A;DC_71A_n78A;DC_71A_n38A;DC_13A_n7A;DC_5A_n41A DC_66A_n41A;DC_2A_n7A;DC_7A_n2A;DC_5A_n40A;DC_30A_n77A DC_41A_n77A;DC_7A_n78A;DC_48A_n25A;DC_66A_n28A;DC_71A_n41A DC_28A_n66A;DC_30A_n12A;DC_2A_n14A;DC_30A_n14A;DC_66A_n14A DC_2A_n30A;DC_5A_n30A;DC_12A_n30A;DC_14A_n30A;DC_66A_n30A DC_71A_n7A;DC_7A_n12A;DC_5A_n77A;DC_66A_n77A;DC_71A_n77A</p>			



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	<p>DC_4A_n2A;DC_7A_n25A;DC_71A_n25A;DC_5A_n25A;DC_26A_n25A DC_4A_n7A;DC_13A_n25A;DC_7A_n77A;DC_48A_n71A;DC_48A_n12A NR UL CA: n25A-n41A;n41A-n66A;n41A-n71A;n7A-n78A;n5A-n78A n66A-n78A;n7A-n77A;n2A-n77A;n5A-n77A;n66A-n77A n30A-n77A;n48A-n66A;n2A-n48A;n5A-n48A;n48A-n70A n48A-n71A;n71A-n77A;n71A-n78A;n25A-n78A;n38A-n66A n25A-n48A;n25A-n77A;n25A-n38A;n13A-n77A; n2A-n41A</p>
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Separation Distance

Minimum test separation distance:	20cm
<p>Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.</p>	



2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

2.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



3 FCC Radiofrequency radiation exposure limits

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	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



4 Measurement and Calculation

Power density Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Standalone Transmitter:

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
WCDMA Band II	1852.4	0.24	25.00	25.24	33.00	0.0665	1.0000	8.00	12.01	8.00	Pass
WCDMA Band IV	1712.4	1.42	25.00	26.42	30.00	0.0872	1.0000	5.00	12.01	5.00	Pass
WCDMA Band V	826.4	1.42	25.00	24.27	38.45	0.0872	0.5509	15.60	9.42	9.42	Pass
LTE Band 2/LTE CA_2C	1850.7	0.24	25.00	25.24	33.00	0.0665	1.0000	8.00	12.01	8.00	Pass
LTE Band 4	1710.7	1.42	25.00	26.42	30.00	0.0872	1.0000	5.00	12.01	5.00	Pass
LTE Band 5/LTE CA_5B	824.7	1.42	25.00	24.27	38.45	0.0872	0.5498	15.60	9.41	9.41	Pass
LTE Band 7/LTE CA_7C	2502.5	0.45	25.00	25.45	33.00	0.0698	1.0000	8.00	12.01	8.00	Pass
LTE Band 12	699.7	-0.25	25.00	22.60	34.77	0.0594	0.4665	11.92	8.70	8.70	Pass
LTE Band 13	779.5	1.37	25.00	24.22	34.77	0.0862	0.5197	11.92	9.16	9.16	Pass
LTE Band 14	790.5	1.82	25.00	24.67	34.77	0.0957	0.5270	11.92	9.23	9.23	Pass
LTE Band 17	706.5	-0.20	25.00	22.65	34.77	0.0601	0.4710	11.92	8.74	8.74	Pass
LTE Band 25	1850.7	0.24	25.00	25.24	33.00	0.0665	1.0000	8.00	12.01	8.00	Pass
LTE Band 26(814-824)	814.7	1.59	25.00	NA	NA	0.0907	0.5431	NA	9.36	9.36	Pass
LTE Band 26(824-849)	824.7	1.59	25.00	24.44	38.45	0.0907	0.5498	15.60	9.41	9.41	Pass
LTE Band 30	2307.5	-3.27	23.00	19.73	23.98	0.0187	1.0000	0.98	14.01	0.98	Pass
LTE Band 38/LTE CA_38C	2572.5	2.20	25.00	27.20	33.00	0.1044	1.0000	8.00	12.01	8.00	Pass
LTE Band 41/LTE CA_41C	2498.5	2.34	27.00	29.34	33.00	0.1709	1.0000	6.00	10.01	6.00	Pass
LTE Band 42(3450-3550)/LTE CA_42C	3452.5	0.89	22.00	22.89	30.00	0.0387	1.0000	8.00	15.01	8.00	Pass
LTE Band 43(3700-3800)/LTE CA_43C	3702.5	0.89	22.00	22.89	30.00	0.0387	1.0000	8.00	15.01	8.00	Pass
LTE Band 48/LTE CA_48C	3552.5	0.99	22.00	22.99	23.00	0.0396	1.0000	1.00	15.01	1.00	Pass
LTE Band 66/LTE CA_66B/LTE CA_66C	1710.7	1.42	25.00	26.42	30.00	0.0872	1.0000	5.00	12.01	5.00	Pass
LTE Band 71	665.5	1.19	25.00	24.04	34.77	0.0827	0.4437	11.92	8.48	8.48	Pass

Remark:

- 1) P=Output Power at Antenna Terminals (mW)
- 2) R = distance to the center of radiation of antenna (in centimeter)
- 3) MPE limit = 1mW/cm²



Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
NR Band n2	1852.5	0.24	NA	25.00	25.24	33.00	0.0665	1.0000	8.00	12.01	8.00	Pass
NR Band n5	826.5	1.42	NA	25.00	24.27	38.45	0.0872	0.5510	15.60	9.42	9.42	Pass
NR Band n7	2502.5	0.45	NA	25.00	25.45	33.00	0.0698	1.0000	8.00	12.01	8.00	Pass
NR Band n12	701.5	-0.25	NA	25.00	22.60	34.77	0.0594	0.4677	11.92	8.71	8.71	Pass
NR Band n13	779.5	1.37	NA	25.00	24.22	34.77	0.0862	0.5197	11.92	9.16	9.16	Pass
NR Band n14	790.5	1.82	NA	25.00	24.67	34.77	0.0957	0.5270	11.92	9.23	9.23	Pass
NR Band n25	1852.5	0.24	NA	25.00	25.24	33.00	0.0665	1.0000	8.00	12.01	8.00	Pass
NR Band n26(814-824)	816.5	1.59	NA	25.00	NA	NA	0.0907	0.5443	NA	9.37	9.37	Pass
NR Band n26(824-849)	826.5	1.59	NA	25.00	24.44	38.45	0.0907	0.5510	15.60	9.42	9.42	Pass
NR Band n30	2307.5	-3.27	NA	23.00	19.73	23.98	0.0187	1.0000	0.98	14.01	0.98	Pass
NR Band n38	2575.0	2.20	NA	25.00	27.20	33.00	0.1044	1.0000	8.00	12.01	8.00	Pass
NR Band n38(MIMO)	2575.0	2.20	2.20	25.00	27.20	33.00	0.1044	1.0000	8.00	12.01	8.00	Pass
NR Band n41	2506.0	2.34	NA	27.50	29.84	33.00	0.1917	1.0000	5.50	9.51	5.50	Pass
NR Band n41(MIMO)	2506.0	2.34	2.34	27.50	29.84	33.00	0.1917	1.0000	5.50	9.51	5.50	Pass
NR Band n48(MIMO)	3555.0	0.99	0.99	22.00	22.99	23.00	0.0396	1.0000	1.00	15.01	1.00	Pass
NR Band n66	1712.5	1.42	NA	25.00	26.42	30.00	0.0872	1.0000	5.00	12.01	5.00	Pass
NR Band n70	1697.5	1.09	NA	24.00	25.09	30.00	0.0642	1.0000	6.00	13.01	6.00	Pass
NR Band n71	665.5	1.19	NA	25.00	24.04	34.77	0.0827	0.4437	11.92	8.48	8.48	Pass
NR Band n77 (3450-3550)	3455.0	0.99	NA	27.50	28.49	30.00	0.1405	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3450-3550)(MIMO)	3455.0	0.99	0.99	27.50	28.49	30.00	0.1405	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980)	3707.5	0.99	NA	27.50	28.49	30.00	0.1405	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980)(MIMO)	3707.5	0.99	0.99	27.50	28.49	30.00	0.1405	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3450-3550)	3455.0	0.99	NA	27.50	28.49	30.00	0.1405	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3450-3550)(MIMO)	3455.0	0.99	0.99	27.50	28.49	30.00	0.1405	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800)	3705.0	0.99	NA	27.50	28.49	30.00	0.1405	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800)(MIMO)	3705.0	0.99	0.99	27.50	28.49	30.00	0.1405	1.0000	2.50	9.51	2.50	Pass
WLAN2.4GHz	2452.0	2.61	NA	20.61	23.22	NA	0.0418	1.0000	NA	NA	NA	Pass
WLAN5GHz	5785.0	3.11	NA	19.07	22.18	NA	0.0329	1.0000	NA	NA	NA	Pass

Note:

Due to the EUT support NR ENDC and CA

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

NOTE The corresponding MEs must be expressed in terms of power density in the above summation Therefore, the worst-case(DC_41A_n77A) situation is 0.1917+0.1405=0.3322, which is less than “1”, this confirmed that the device comply with MPE limit.

4.1.1 Exposure calculations for multiple sources

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE in accordance with the provisions of Table(A) and Table(B). To comply with the MPE, the fraction of the MPE in terms of E2, H2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity.



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	WWAN + WiFi 2.4G + WiFi 5G

No.	Mode	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	Result Ratio	Total Ratio	Limit	Result
1	NR Band n41	0.1917	1.0000	0.1917	0.2781	1.0000	Pass
	WiFi 2.4G	0.0457	1.0000	0.0457			
	WiFi 5G	0.0407	1.0000	0.0407			

Note: Considering the WWAN module collocation with the WLAN transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 3 collocated transmitters is compliant.

Note3: The Power Data for 2.4G Wi-Fi is based on the RF Test report SZCR240400141904.

Note4: The Power Data for 5G Wi-Fi is based on the RF Test report SZCR240400141905.

Note5: The power Date for WCDMA, LTE and NR are based on the module MPE report: SEWA2309000114RG04.

--End of the Report--



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com