



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260100036607

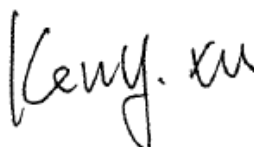
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RF Exposure Evaluation Report

Application No.: SZCR2601000366AT
Applicant: Stryker Medical
Address of Applicant: 3800 East Centre Ave, Portage, Michigan, 49002 United States
Manufacturer: SHENZHEN MINRRAY INDUSTRY CO., LTD.
Address of Manufacturer: Room 101, 2-8F, 14- 15F, Minrray Building, Ganli 6th Road No.5, Gankeng Community, Jihua Street, Longgan g District, Shenzhen, China.
Factory: SHENZHEN MINRRAY INDUSTRY CO., LTD.
Address of Factory: Room 101, 2-8F, 14- 15F, Minrray Building, Ganli 6th Road No.5, Gankeng Community, Jihua Street, Longgan g District, Shenzhen, China.
Equipment Under Test (EUT):
EUT Name: AMS-R2X
Model No.: AMS-R2X
Trade Mark: Stryker
FCC ID: Z7A-AMS-R2X
Standards: 47 CFR Part 1.1307, 47 CFR Part 1.1310, 47 CFR Part 2.1091
Date of Receipt: 2026-01-26
Date of Test: 2026-01-30 to 2026-04-15
Date of Issue: 2026-04-17

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


Keny Xu
EMC Laboratory Manager



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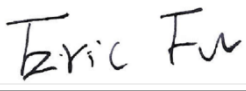
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-04-17		Original

Authorized for issue by:				
				
		Edison Li/Project Engineer		
				
		Eric Fu/Reviewer		



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3 General Information

3.1 General Description

Power supply:	Switching Adapter Model: FJ-SW20251206000 Input: AC 100-240V, 50/60Hz, 1.5A Max Output: DC 12.0V, 6.0A, 72.0W or DC 12.0V
Cable(s):	AC cable:40cm unshielded DC cable:180cm with a ferrite core
For Bluetooth Classic	
Bluetooth Version:	V5.2
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, Pi/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	PIFA Antenna
Antenna Gain:	4.63 dBi
For Bluetooth LE	
Bluetooth Version:	V5.2
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PIFA Antenna
Data rate:	1Mbps, 2Mbps
Antenna Gain:	4.63 dBi
For 802.11b/g/n/ax:	
Operation Frequency:	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz, 802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK), 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM), 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20): 11, 802.11n(HT40)/ax(HEW40):7
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 4.63 dBi, Antenna 2: 4.11dBi
For 802.11a/n/ac/ax: U-NII-1, U-NII-2A, U-NII-2C, U-NII-3	
Operation Frequency /	U-NII-1: 5180-5240MHz (4 Channels);



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Number of channels (20MHz):	U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5720MHz (12 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: 5510-5710MHz (6 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 Channel); U-NII-2C: 5530-5690MHz (3 Channels); U-NII-3: 5775MHz (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/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz; 802.11ac/ax 80: 80MHz; 802.11ac/ax 160: 160MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 5.68 dBi, Antenna 2: 6.41dBi @5180-5700MHz Antenna1: 5.41 dBi, Antenna 2: 5.77dBi @5745-5825MHz Note: MIMO for Antenna1 and Antenna2.
For 802.11a/ax: U-NII-5, U-NII-6, U-NII-7, U-NII-8	
Operation Frequency / Number of channels (20MHz):	U-NII-5: 5955-6415MHz (24 Channels); U-NII-6: 6435-6515MHz (5 Channels); U-NII-7: 6535-6855MHz (17 Channels); U-NII-8: 6875-7115MHz (13 Channels)
Operation Frequency / Number of channels (40MHz):	U-NII-5: 5965-6405MHz (12 Channels); U-NII-6: 6445-6485MHz (2 Channels); U-NII-7: 6525-6845MHz (9 Channels); U-NII-8: 6885-7085MHz (6 Channels)
Operation Frequency / Number of channels (80MHz):	U-NII-5: 5985-6385MHz (6 Channels); U-NII-6: 6465-6545MHz (2 Channels); U-NII-7: 6625-6785MHz (3 Channels); U-NII-8: 6865-7025MHz (3 Channel)
Operation Frequency / Number of channels (160MHz):	U-NII-5: 6025-6345MHz (3 Channels); U-NII-6: 6505MHz (1 Channel); U-NII-7: 6665MHz (1 Channel); U-NII-8: 6985MHz (1 Channel)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-



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	QAM)
Channel Spacing:	802.11a/ax 20: 20MHz; 802.11ax 40: 40MHz; 802.11ax 80: 80MHz; 802.11ax 160: 160MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 4.38 dBi, Antenna 2: 6.79dBi Note: MIMO for Antenna1 and Antenna2.
Equipment Type:	6XD Indoor Devices

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3.2 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.

3.3 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.

3.4 Deviation from Standards

None.

3.5 Abnormalities from Standard Conditions

None.



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4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
(B) 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

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

For Uncontrolled Environment, the MPE limit of 1500MHz-100000 is 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1.2 Test Procedure

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



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4.1.3 EUT RF Exposure Evaluation

1) Test Results

The max tune-up tolerance power Into Antenna1 & RF Exposure Evaluation Distance:

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	MPE Ratios	Result
BT	2402	4.63	2.90	10.35	10.84	0.0063	1.0000	0.0063	PASS
BLE	2402	4.63	2.90	10.61	11.51	0.0066	1.0000	0.0066	PASS
2.4G	2412	4.63	2.90	15.03	31.84	0.0184	1.0000	0.0184	PASS
5G	5180	5.68	3.70	16.53	44.98	0.0331	1.0000	0.0331	PASS
5.8G	5745	5.41	3.48	16.34	43.05	0.0298	1.0000	0.0298	PASS
6E	5955	4.38	2.74	10.85	12.16	0.0066	1.0000	0.0066	PASS

The max tune-up tolerance power Into Antenna2 & RF Exposure Evaluation Distance:

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	MPE Ratios	Result
2.4G	2412	4.11	2.58	15.03	31.84	0.0163	1.0000	0.0163	PASS
5G	5180	6.41	4.38	16.53	44.98	0.0391	1.0000	0.0391	PASS
5.8G	5745	5.77	3.78	16.34	43.05	0.0323	1.0000	0.0323	PASS
6E	5955	6.79	4.78	10.85	12.16	0.0116	1.0000	0.0116	PASS

Note: Refer to report No. SZCR260100036602~SZCR260100036606 of EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement, the MPE limit of 1500MHz to 100000MHz is 1.0 mW/cm².

The antenna1 and antenna2 can synchronous transmission at the same time.

The simultaneous transmission result between of antenna1 and antenna2:

The SAR Exclusion Threshold Level:

=CPD1 / LPD1 + CPD2 / LPD2

(CPD = Calculation power density, LPD = Limit of power density)

= (0.0331/1) + (0.0391/1) = 0.0722 < 1

Since the SAR Exclusion Threshold Level is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

-End of Report-



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