

RF EXPOSURE EVALUATION REPORT

Product Name: Streaming Media Player
Trade Mark: EPSON
Model No.: DTP9757
Report Number: 2212173258RFC-5
Test Standards: FCC 47 CFR Part 1 Subpart I
FCC ID: BKMAE-DTP9757
Test Result: PASS
Date of Issue: February 23, 2023

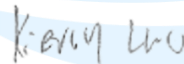
Prepared for:

Seiko Epson Corporation
3-3-5 Owa Suwa-shi Nagano-Ken 392-8502, Japan

Prepared by:

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Version

Version No.	Date	Description
V1.0	February 23, 2023	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Seiko Epson Corporation
Address of Applicant:	3-3-5 Owa Suwa-shi Nagano-Ken 392-8502, Japan
Manufacturer:	Shenzhen Jiuzhou Electric Co., Ltd
Address of Manufacturer:	6F, Jiuzhou Electric Building, Southern No. 12 Rd., High-tech Industrial Park, Nanshan District, Shenzhen, China

1.2 EUT INFORMATION

Product Name:	Streaming Media Player		
Model No.:	DTP9757		
Trade Mark:	EPSON		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax Bluetooth 5.1	
		5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz
	5 250 MHz to 5 350 MHz		IEEE 802.11a/n/ac/ax
	5 725 MHz to 5 850 MHz		IEEE 802.11a/n/ac/ax
Software Version:	001 (Provided by the customer)		
Hardware Version:	V1.4 (Provided by the customer)		
Sample Received Date:	January 5, 2023		
Remark:	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.		

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

For BT_LE/2LE/LE Code	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth LE/2LE/LE Code
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Antenna Type: (Provided by the customer)	Metal Antenna
Antenna Gain: (Provided by the customer)	3.5 dBi
Maximum Peak Power:	6.34 dBm

For BT_EDR	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum (FHSS)
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Hopping Channel Type:	Adaptive Frequency Hopping Systems

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Antenna Type: (Provided by the customer)	Metal Antenna
Antenna Gain: (Provided by the customer)	3.5 dBi
Maximum Peak Power:	6.323 dBm

For 2.4 GHz ISM Band of Wi-Fi	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b/g/n-HT20/ax-HE20
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: <input checked="" type="checkbox"/> OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) <input checked="" type="checkbox"/> OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS15 IEEE 802.11ax-HE20: Up to MCS11
Number of Channels:	IEEE 802.11b/g/n-HT20/ax-HE20: 13
Channel Separation:	5 MHz
Antenna Type: (Provided by the customer)	Antenna 1 Metal Antenna
	Antenna 2 Metal Antenna
Antenna Gain: (Provided by the customer)	Antenna 1 3.5 dBi
	Antenna 2 3.65 dBi
Maximum Peak Power:	SISO_Ant. 1 IEEE 802.11b: 20.49 dBm IEEE 802.11g: 25.58 dBm
	SISO_Ant. 2 IEEE 802.11b: 20.15 dBm IEEE 802.11g: 25.18 dBm
	MIMO_Ant. 1+2 IEEE 802.11n-HT20: 28.16 dBm IEEE 802.11ax-HE20: 28.01 dBm

For 5 GHz U-NII Bands of Wi-Fi	
Frequency Bands:	5150 MHz to 5250 MHz (U-NII-1)
	5250 MHz to 5350 MHz (U-NII-2A)
	5725 MHz to 5850 MHz (U-NII-3)
Frequency Ranges:	5180 MHz to 5240 MHz
	5260 MHz to 5320 MHz
	5745 MHz to 5825 MHz
Support Standards:	IEEE 802.11a/n/ac/ax
TPC Function:	Not Support
DFS Operational mode:	Slave with radar Interference detection function
Type of Modulation:	IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11ax: <input checked="" type="checkbox"/> OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) <input checked="" type="checkbox"/> OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz
	IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 40 MHz
	IEEE 802.11ac-VHT80/ax-HE80: 80 MHz

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Data Rate:	IEEE 802.11a: Up to 54 Mbps			
	IEEE 802.11n: Up to MCS15			
	IEEE 802.11ac-VHT20: Up to MCS8			
	IEEE 802.11ac-VHT40/VHT80: Up to MCS9			
	IEEE 802.11ax-HE20/HE40/HE80: Up to MCS11			
Number of Channels:	5150 MHz to 5350 MHz: 8 for 802.11a/n-HT20/ac-VHT20/ax-HE20 4 for 802.11n-HT40/ac-VHT40/ax-HE40 2 for 802.11ac-VHT80/ax-HE80			
	5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20 2 for IEEE 802.11n-HT40/ac-VHT40/ax-HE40 1 for IEEE 802.11ac-VHT80/ax-HE80			
Antenna Type: (Provided by the customer)	Antenna 1:	Metal Antenna		
	Antenna 2:	Metal Antenna		
Antenna Gain (dBi): (Provided by the customer)	Antenna	U-NII-1	U-NII-2A	U-NII-3
	Antenna 1:	2.99	3.08	3.63
	Antenna 2:	2.80	2.21	3.60
Maximum conducted output power (dBm):	Mode	U-NII-1	U-NII-2A	U-NII-3
	IEEE 802.11a:	14.83	13.11	13.49
	IEEE 802.11n-HT20:	11.23	15.66	16.45
	IEEE 802.11n-HT40:	15.41	15.85	16.58
	IEEE 802.11ac-VHT20	11.06	14.62	15.62
	IEEE 802.11ac-VHT40	14.94	14.70	15.71
	IEEE 802.11ac-VHT80:	14.60	14.45	15.40
	IEEE 802.11ax-HE20:	14.57	14.86	15.82
	IEEE 802.11ax-HE40:	16.12	15.82	15.81
IEEE 802.11ax-HE80:	15.45	15.27	15.62	

1.4 OTHER INFORMATION

Test channels for BT_LE/2LE/LE code				
Type of Modulation	Tx/Rx Frequency	Test RF Channel Lists		
GFSK	2402 MHz to 2480 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 0	Channel 19	Channel 39
		2402 MHz	2440 MHz	2480 MHz

Test channels for BT_EDR				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
GFSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 0	Channel 39	Channel 78
$\pi/4$ DQPSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	2402 MHz	2441 MHz	2480 MHz
		Lowest(L)	Middle(M)	Highest(H)
8DPSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz

Test channels for 2.4 GHz ISM Band of Wi-Fi				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
IEEE 802.11b	2412 MHz to 2462 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 1	Channel 6	Channel 11

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		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n-HT20	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11ax-HE20	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz

Test channels for 5 GHz U-NII Bands of Wi-Fi				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20 IEEE 802.11ax-HE20	5150 - 5250 MHz	Channel 36	Channel 44	Channel 48
		5180 MHz	5220 MHz	5240 MHz
	5250 - 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5725 - 5850 MHz	Channel 149	Channel 157	Channel 165
		5745 MHz	5785 MHz	5825 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ax-HE40	5150 - 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 - 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5725 - 5850 MHz	Channel 151	--	Channel 159
		5755 MHz	--	5795 MHz
IEEE 802.11ac-VHT80 IEEE 802.11ax-HE80	5150 - 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 - 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5725 - 5850 MHz	--	Channel 155	--
		--	5775 MHz	--

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I

All test items have been performed and recorded as per the above standards

1.6 DEVIATION FROM STANDARDS

None.

1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

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2. EQUIPMENT LIST

Please refer to the RF test report.

3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title
1	FCC 47 CFR Part 1 Subpart I	PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969
2	KDB 447498 D01 General RF Exposure Guidance v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES
3	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100000	/	/	1	30

Note: f = frequency in MHz; * = Plane-wave equivalent power density.

3.2.2 Test Procedure

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

3.3 MPE CALCULATION METHOD

FCC 47 CFR Part 1 Subpart I

$$S = PG/4\pi R^2 = EIRP/4\pi R^2$$

S = power density (in appropriate units, e.g., mw/cm²)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = 20cm distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

3.4 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 For WLAN

For Wi-Fi function, operating at 2412MHz to 2462 MHz for IEEE802.11b/g/n and operating at 5150 MHz to 5250 MHz for IEEE802.11a/n/ac and operating at 5250 MHz to 5350 MHz for IEEE802.11a/n/ac and operating at 5725 MHz to 5850 MHz for IEEE802.11a/n/ac.

3.4.1.1 Antenna Type:

Chain 1: Metal Antenna

Chain 2: Metal Antenna

Antenna Gain:

Chain 1: 2412MHz to 2462 MHz: 3.5dBi
 5150 MHz to 5250 MHz: 2.99dBi
 5250 MHz to 5350 MHz: 3.08dBi
 5725 MHz to 5850 MHz: 3.63dBi

Chain 2: 2412MHz to 2462 MHz: 3.65dBi
 5150 MHz to 5250 MHz: 2.80dBi
 5250 MHz to 5350 MHz: 2.21dBi
 5725 MHz to 5850 MHz: 3.60dBi

3.4.1.2 Results for FCC 47 CFR Part 1 Subpart I

For SISO (1TX/1RX) Mode

Operating Mode	Freq.	Ant.	Declared maximum conducted output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value	
	(MHz)									(dBm)
SISO	IEEE 802.11b	2412-2462	Ant 0 & Ant1	20	1	3.65	24.65	291.7427	1	0.2537
	IEEE 802.11g	2412-2462	Ant 0 & Ant1	25	1	3.65	29.65	922.5714	1	0.8165
	IEEE 802.11a	5180-5240	Ant 0 & Ant1	14	1	2.99	17.99	62.9506	1	0.9875
		5260-5320	Ant 0 & Ant1	13	1	3.08	17.08	51.0505	1	0.9898
		5745-5825	Ant 0 & Ant1	13	1	3.63	17.63	57.9429	1	0.9885

For MIMO (2TX/2RX) Mode

Operating Mode	Freq.	Ant.	Declared maximum conducted output power	Max. positive Tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value	MIMO		
	(MHz)									(dBm)	(dBi)	(dBm)
MIMO (2TX/2RX)	IEEE 802.11n-HT20	Ant 0	25	1	3.5	29.5	891.2509	1	0.1773	0.3608	1	
		Ant 1	25	1	3.65	29.65	922.5714	1	0.1835			
	IEEE 802.11ax-HE20	Ant 0	25	1	3.5	29.5	891.2509	1	0.1773	0.3608	1	
		Ant 1	25	1	3.65	29.65	922.5714	1	0.1835			
	IEEE 802.11n-HT20 802.11ac-VHT20/ax-HE20(SU)	5180-5240	Ant 0	9	3.5	2.99	15.49	35.3997	1	0.0070	0.0137	1
			Ant 1	9	3.5	2.80	15.30	33.8844	1	0.0067		
		5260-5320	Ant 0	11	3	3.08	17.08	51.0505	1	0.0102	0.0185	1
			Ant 1	11	3	2.21	16.21	41.7830	1	0.0083		
		5745-5825	Ant 0	13	1	3.63	17.63	57.9429	1	0.0115	0.0229	1
			Ant 1	13	1	3.60	17.60	57.5440	1	0.0114		
	IEEE 802.11n-HT40 802.11ac-VHT40/ax-HE40(SU)	5190-5230	Ant 0	12	2.5	2.99	17.49	56.1048	1	0.0112	0.0219	1
			Ant 1	12	2.5	2.80	17.3	53.7032	1	0.0107		
		5270-5310	Ant 0	12	2	3.08	17.08	51.0505	1	0.0102	0.0185	1
			Ant 1	12	2	2.21	16.21	41.7830	1	0.0083		
		5755-5795	Ant 0	13	1	3.63	17.63	57.9429	1	0.0115	0.0229	1
			Ant 1	13	1	3.60	17.60	57.5440	1	0.0114		
IEEE 802.11ac-VHT80/ax-HE80(SU)		5210	Ant 0	11	2	2.99	15.99	39.7192	1	0.0079	0.0155	1
			Ant 1	11	2	2.80	15.80	38.0189	1	0.0076		

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Operating Mode	Freq.	Ant.	Declared maximum conducted output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value	MIMO	
	(MHz)									(dBm)	(dBi)
	5290	Ant 0	11	2	3.08	16.08	40.5509	1	0.0081	0.0147	1
		Ant 1	11	2	2.21	15.21	33.1894	1	0.0066		1
	5775	Ant 0	12	1	3.63	16.63	46.0257	1	0.0092	0.0183	1
		Ant 1	12	1	3.60	16.60	45.7088	1	0.0091		1

3.4.2 For BT

For BT_LE/2LE/LE code function, operating at 2402MHz to 2480 MHz for GFSK and
 For BT_EDR function, operating at 2402MHz to 2480 MHz for GFSK, π/4 DQPSK, 8DPSK

3.4.2.1 Antenna Type:

Chain 1: Metal Antenna

3.4.2.2 Antenna Gain:

Chain 1: 2402MHz to 2480 MHz: 3.5 dBi

3.4.2.3 Results for FCC 47 CFR Part 1 Subpart I

Operating Mode	Freq.	Declared maximum conducted output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)							
LE/2LE/LE code	2402-2480	5	2	3.5	10.5	11.2202	1	0.0022
EDR	2402-2480	5	2	3.5	10.5	11.2202	1	0.0022

3.4.3 Simultaneous Multi-band Transmission MPE Analysis

3.4.2.1 List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Support/Not Support
1	2.4G_WLAN + BT	Support
2	5G_WLAN + BT	Support
3	2.4G_WLAN + 5G_WLAN	Not Support

3.4.2.2 Results for transmit simultaneously

FCC 47 CFR Part 1 Subpart I

No.	Configurations	Maximum MPE Value			Limits
		WLAN	BT	Transmit simultaneously	
1	2.4G_WLAN + BT	0.3608	0.0022	0.6780	1
2	5G_WLAN +BT	0.0229	0.0022	0.0264	1

Note:

According to KDB 447498 D01 General RF Exposure Guidance v06, At the transmit simultaneously calculation method is as follows:

$$\text{Transmit simultaneously MPE} = \Sigma \text{ of MPE ratios}$$

$$\text{MPE ratios} = \text{Field strengths or power density} / \text{MPE limit at the test frequency}$$

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APPENDIX 1 PHOTOS OF TEST SETUP

N/A

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal Photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
