

TEST REPORT

Product : Aikri6490
Trade mark : N/A
Model/Type reference : Aikri-64X-90AS-8-LGA,
Aikri-64X-90LS-8-LGA
Serial Number : N/A
Report Number : EED32S80594402
Date of Issue : Apr. 21, 2026
Product Class : Item 19 of Article 2 Paragraph 1
Test result : PASS

Prepared for:

Infochips Inc

**181 Metro Drive, Suite 170, San Jose California United States,
ZIP Code: 95110**

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Park, Zone 70, Bao'an District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Compiled by:



Lucas Lu

Reviewed by:



Keven Tan

Approved by:



Aaron Ma

Date:

Apr. 21, 2026



Check No.: 6723230326

Modification Record

Version No.	Last Report No.	Modification Description
00	EED32R81711602	First report
01	EED32S80594402	Add the antenna.
Note: The increased antenna Max gains are all smaller than those of the original antenna. All test data come from the report of No.EED32R81711602.		

1 Test Summary

Test Item	Test Requirement	Ordinance regulating radio equipment Limit	Result
Antenna Requirement	Item 19 of Article 2 Paragraph 1	Ordinance regulating radio equipment Chapter II Section 3	PASS
Test frequency	Item 19 of Article 2 Paragraph 1	N/A	PASS
Frequency Error	Item 19 of Article 2 Paragraph 1	±50ppm or less	PASS
Occupied Bandwidth	Item 19 of Article 2 Paragraph 1	FH/FH+DS/FH+OFDM 83.5MHz or less OFDM : 40MHz or less Others : 26MHz or less	PASS
Antenna Power	Item 19 of Article 2 Paragraph 1	Designated value: For the 2400-2483.5MHz (1) FH, FH+DS , FH+OFDM: 3mW/MHz (2) OFDM , DSSS: 10mW/MHz or less OFDM OBW 26-38MHz: 5mW/MHz or less Tolerance: +20, No lower limit (3) Other than (1) & (2): 10mW For 2484MHz: 10mW/MHz or less Tolerance: +20%, N/A	PASS
Unwanted Emission Strength	Item 19 of Article 2 Paragraph 1	For 2400-2483.5MHz (1) Below 2387 MHz : 2.5μW/MHz (2) 2387 to 2400 MHz : 25μW/MHz (3) 2483.5 through 2496.5 MHz : 25μW/MHz (4) Over 2496.5 MHz : 2.5μW/MHz	PASS
Interference prevention capability	Item 19 of Article 2 Paragraph 1	Ordinance regulating radio equipment Chapter I Section 5	PASS
Carrier sense capability	Item 19 of Article 2 Paragraph 1	Ordinance regulating radio equipment Chapter II Section 4.11, 2) d	N/A
RF accessibility	Item 19 of Article 2 Paragraph 1	N/A	PASS
Secondary Radiated Emission Strength	Item 19 of Article 2 Paragraph 1	(1) Below 1 GHz: -54dBm (2) 1GHz or higher: -47dBm	PASS

Remark:

N/A: It is not applicable to occupied bandwidth within 26MHz.

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means the product in transmitting status.

Rx: In this whole report Rx (or rx) means the product in receiving status.

RF: In this whole report RF means Radiated Frequency.

DS: Direct spreading FH: Frequency hopping

OFDM: Orthogonal frequency division multiplexing

Model No.: Aikri-64X-90AS-8-LGA, Aikri-64X-90LS-8-LGA

Only the model Aikri-64X-90AS-8-LGA was tested, Their electrical circuit design, layout, components used, and internal wiring are identical, Only the software version and model names are different. The mentioned Software versions are for two different Operating System. RF Tx power is same in both the Operating System.

No.	Model name	Software version	Operating System
1	Aikri-64X-90AS-8-LGA	QCS6490_AND.13.0.0.EI.1.3.6	Android
2	Aikri-64X-90LS-8-LGA	QCS6490_QLI.1.2.0.EI.1.1.0	Linux

2 Contents

1 TEST SUMMARY	3
2 CONTENTS	5
3 GENERAL INFORMATION	6
3.1 Client Information	6
3.2 General Description of EUT	6
3.3 EUT test environment range	8
3.4 Description of Support Units	8
3.5 Test Location	8
3.6 Measurement Uncertainty (95% confidence levels, k=2)	8
4 EQUIPMENT LIST	9
5 RADIO TECHNICAL REQUIREMENTS SPECIFICATION	11
5.1 Transmitter Requirements	12
5.1.1 EUT test voltage and Frequency	12
5.1.2 Antenna Requirement	14
5.1.3 Frequency Error	15
5.1.4 Occupied Bandwidth (99%)	16
5.1.5 Spread spectrum Bandwidth (90%)	17
5.1.6 Antenna Power	18
6.1.1 Unwanted Emission Strength	19
5.1.7 Dwell Time	20
5.1.8 Pseudorandom Frequency Hopping Sequence	21
5.1.9 Interference prevention function	22
5.1.10 RF accessibility	23
5.2 Receiver Requirements	24
5.2.1 Secondary Radiated Emission Strength	24
6 PHOTOGRAPHS	25

3 General Information

3.1 Client Information

Applicant:	eInfochips Inc
Address of Applicant:	181 Metro Drive, Suite 170, San Jose California United States, ZIP Code: 95110
Manufacturer:	eInfochips Inc
Address of Manufacturer:	181 Metro Drive, Suite 170, San Jose California United States, ZIP Code: 95110
Factory:	e Infochips Private Limited
Address of Factory:	Block-E, Ratna, 3rd Eye Voice, IT/ITES SEZ, Calica Construction and Impex Pvt. Ltd., Village: Ognaj, Taluka: Daskroi, Ahmedabad - 380060, Gujarat, India

3.2 General Description of EUT

Product Name:	Aikri6490		
Model No.:	Aikri-64X-90AS-8-LGA, Aikri-64X-90LS-8-LGA		
Test Model No.:	Aikri-64X-90AS-8-LGA		
Trade Mark:	N/A		
EUT Supports Radios application:	5.0 Bluetooth Dual Mode, 2402MHz to 2480MHz		
Operating Frequency:	2402MHz to 2480MHz		
Conducted rated power:	GFSK: 1.8mW/MHz, (π /4)DQPSK: 1.8mW/MHz, 8DPSK: 1.8mW/MHz		
Number of Channels:	79 Channels		
Type of Modulation:	GFSK, π /4DQPSK, 8DPSK;		
Channel Separation:	1 MHz		
Antenna Type:	FPC Antenna		
Antenna gain:	Antenna1		
	Manufacturer:	Kyocera	
	Part# / Model#:	1001932PT	
	Antenna Type:	FPC	
	2.4GHz Max Gain:	2.5dBi	
	Antenna2		
	Manufacturer:	Taoglas	
	Part# / Model#:	FXP840.07.0055B	
	Antenna Type:	FPC	
	2.4GHz Max Gain:	3.35dBi	
	Antenna3		
	Manufacturer:	Skydio Inc.	

		Part# / Model#:	850-211840-000-1
		Antenna Type:	FPC
		2.4GHz Max Gain:	1.95dBi
Test Power Grade:	Default		
Test Software of EUT:	QRCT.exe		
Power Supply:	DC 3.7V		
Test Voltage:	DC 3.7V		
Sample Received Date:	Sep. 15, 2025		
Sample tested Date:	Sep. 15, 2025 to Jan. 30, 2026		

3.3 EUT test environment range

Temperature:	25°C
Humidity:	54%RH
Atmospheric Pressure:	1010mbar

3.4 Description of Support Units

The EUT has been tested independently.

3.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 3368 3668 Fax: +86 (0) 755 3368 3385

No tests were sub-contracted.

3.6 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Frequency Error	10Hz
2	Occupied Bandwidth	10kHz
3	Antenna Power	0.55dB
4	Spurious Emissions	0.46dB(30MHz-1GHz)
		0.55dB(1GHz-18GHz)
5	Carrier sense capability	1.0dB
6	Temperature test	0.64°C
7	Humidity test	3.8%
8	DC and low frequency voltages test	0.026%

4 Equipment List

RF test system						
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	Calibration body
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-05-2024 11-25-2025	12-04-2025 11-24-2026	CTIMT
Spectrum Analyzer	R&S	FSVS3044	101509	02-14-2025	02-13-2026	LISAI
Spectrum Analyzer	R&S	FSW43	102978	08-11-2025	08-10-2026	LISAI
Signal Generator	Keysight	N5182B	MY53051549	11-30-2024 11-13-2025	11-29-2025 11-12-2026	CTIMT
Signal Generator	Agilent	N5181A	MY46240094	11-30-2024 11-25-2025	11-29-2025 11-24-2026	CTIMT
DC Power	Keysight	E3642A	MY56376072	11-30-2024 11-13-2025	11-29-2025 11-12-2026	CTIMT
Communication test set	R&S	CMW500	169004	03-03-2025	03-02-2026	CTIMT
RF control unit(power unit)	JS Tonscend	JS0806-2	24180620925	07-21-2025	07-20-2026	CTIMT
Wi-Fi 7GHz Band Extender	JS Tonscend	TS-WF7U2	2206200002	05-12-2025	05-11-2026	LISAI
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024 11-13-2025	11-29-2025 11-12-2026	CTIMT
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-26-2025	05-25-2026	CTIMT
BT&Wi-Fi Automatic test software	JS Tonscend	JS1120-3	V3.6.21	---	---	---
Digital multimeter	FLUKE	17B MAX	59545050WS	09-19-2024 10-15-2025	09-18-2025 10-14-2026	CTIMT

Remark:

CTI: Centre Testing International Group Co., Ltd

Address: Build C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen, China

CTIMT: CTI MEASUREMENT AND TESTING CO.,LTD.

Address : Building B and C, Taohuayuan Sci-Tech Innovation Park, Tiegang Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, China

LISAI: Guangzhou LiSai Metrology & Test Co.,Ltd.

- (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
- (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992) .
- (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to(c).

From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipment is 1 year.

5 Radio Technical Requirements Specification

Table 1: Radio Technical Requirements Specification for 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2 Paragraph 1)

Items	Technical standard
Assigned frequency or designated frequency	2400MHz-2483.5MHz
Communication method	One-way communication, simplex, semi-duplex, or duplex operation of digital signal transmission including spread spectrum
Tolerance of frequency ($\times 10^{-6}$)	± 50 ppm
Tolerance of occupied bandwidth	FH: 83.5MHz or less FH + DS: 83.5MHz or less FH + OFDM: 83.5MHz or less OFDM: 38MHz or less Others: 26MHz or less
Antenna power	Designated value (1) FH, FH+DS, FH+OFDM: 3mW/MHz (2) OFDM, DS other than (1): 10mW/MHz (3) Other than (1) & (2): 10mW Tolerance: +20, No lower limit
Antenna gain	1) 12.14 dBi or less in principle 2) In case of directional antenna (1) FH, FH+DS or FH+OFDM: EIRP $\leq$ 16.91dBm/MHz (2) OFDM or DS other than (1) EIRP $\leq$ 22.14dBm/MHz (3) Other than (1) and (2): 22.14dBm or less (4) OFDM OBW 26 - 38MHz: 19.14dBm/MHz (5) Half-power angle of directional antenna (e) in case of the item 2): $e \leq 360/A$ (The A is 10 in maximum.)
Tolerance of spurious emission intensity	For 2400-2483.5Mz (1) Below 2387 MHz : 2.5 μ W (2) 2387 to 2400 MHz : 25 μ W (3) 2483.5 through 2496.5 MHz : 25 μ W (4) Over 2496.5 MHz : 2.5 μ W
Limit of secondary radiated emissions	(1) Below 1 GHz: 4nW (2) 1 GHz or higher: 20nW
Interference prevention function	Shall have the function of automatic transmission and reception of identification sign.
Structure	Shall be of the structure that the RF and modulator sections excluding antenna cannot easily be opened.
Note	DS: Direct spread FH: Frequency hopping OFDM: Orthogonal frequency division multiplexing

Note: The Technical Standards described here do not cover all of the regulated items.

5.1 Transmitter Requirements

5.1.1 EUT test voltage and Frequency

EUT test voltage		
Power Supply:	DC 3.7V	
Test voltage require:	Supply the rated voltage and the rated voltage $\pm 10\%$ to power supply. However, If the fluctuation of input voltage to the circuit of RF unit (except power supply) of test equipment is under $\pm 1\%$, when input voltage from external power supply to the test equipment is fluctuated by $\pm 10\%$: Conduct the test with the rated voltage only.	
Power Supply result:	The measurement result of the voltage fluctuation at RF circuit when DC 3.7V $\pm 10\%$.	
	DC Input	RF circuit
	3.70V	3.300V
	4.07V	3.300V
	3.33V	3.300V

5.1.1.1 Test frequency

Test frequencies:	If the EUT can be set to 3 or more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L,M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.		
	Frequency range over which device operates	Number of frequencies	Location in the range of operation
	1 MHz or less	1	Middle
	1 to 10 MHz	2	1 near top and 1 near bottom
	More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	N/A	N/A

Test frequencies are the lowest channel: 0 channel (2402MHz), Middle channel: 39 channel (2441MHz) And highest channel: 78 channel (2480MHz)

5.1.2 Antenna Requirement

Standard requirement																															
Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.																															
EUT Antenna	Refer to internal photos.																														
The antenna is FPC Antenna and no consideration of replacement. The best case gain of the antenna is:																															
<table border="1"> <tr> <td colspan="2">Antenna1</td></tr> <tr> <td>Manufacturer:</td><td>Kyocera</td></tr> <tr> <td>Part# / Model#:</td><td>1001932PT</td></tr> <tr> <td>Antenna Type:</td><td>FPC</td></tr> <tr> <td>2.4GHz Max Gain:</td><td>2.5dBi</td></tr> <tr> <td colspan="2">Antenna2</td></tr> <tr> <td>Manufacturer:</td><td>Taoglas</td></tr> <tr> <td>Part# / Model#:</td><td>FXP840.07.0055B</td></tr> <tr> <td>Antenna Type:</td><td>FPC</td></tr> <tr> <td>2.4GHz Max Gain:</td><td>3.35dBi</td></tr> <tr> <td colspan="2">Antenna3</td></tr> <tr> <td>Manufacturer:</td><td>Skydio Inc.</td></tr> <tr> <td>Part# / Model#:</td><td>850-211840-000-1</td></tr> <tr> <td>Antenna Type:</td><td>FPC</td></tr> <tr> <td>2.4GHz Max Gain:</td><td>1.95dBi</td></tr> </table>		Antenna1		Manufacturer:	Kyocera	Part# / Model#:	1001932PT	Antenna Type:	FPC	2.4GHz Max Gain:	2.5dBi	Antenna2		Manufacturer:	Taoglas	Part# / Model#:	FXP840.07.0055B	Antenna Type:	FPC	2.4GHz Max Gain:	3.35dBi	Antenna3		Manufacturer:	Skydio Inc.	Part# / Model#:	850-211840-000-1	Antenna Type:	FPC	2.4GHz Max Gain:	1.95dBi
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Part# / Model#:	850-211840-000-1																														
Antenna Type:	FPC																														
2.4GHz Max Gain:	1.95dBi																														
Result: An antenna connector is available, all relevant tests will be carried out conducted.																															

5.1.3 Frequency Error

Test Requirement:	Item 19 of Article 2 Paragraph 1					
Test Method:	MIC Notice No.88 Appendix No.43					
Ambient:	Temp.: 25°C	Humid.54%	Press.: 1010mbar			
Test Status:	Enter the unmodulation mode for the product. Test in Channel lowest (2402MHz), middle (2441MHz) and highest (2480MHz), keep in continuously transmitting status.					
Test Configuration:	<table><tr><td>EUT</td><td>→</td><td>Spectrum Analyzer</td></tr></table>			EUT	→	Spectrum Analyzer
EUT	→	Spectrum Analyzer				
Test Conditions:	Frequency Counter or Spectrum Analyzer is used for measurement.					
EUT conditions:	Modulation/Spread/Hopping off, CW Tx If EUT does not accept “Modulation OFF” mode in the measurement, you may use “Modulation ON” mode. In that case you can use the Max power Frequency as the measuring results.					
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 1MHz RBW 10kHz (Modulation OFF), VBW 10kHz (Modulation OFF), Sweep Time Auto Detector mode Positive peak Indication mode Max hold					
Technical standard:	Tolerance of frequency: $\pm 50 \times 10^{-6}$					
Test result:	Refer to Appendix: Bluetooth Classic of Report No. EED32S80594402.					

5.1.4 Occupied Bandwidth (99%)

Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
Ambient:	Temp.: 25°C	Humid.:54%	Press.: 1010mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.		
Test Configuration:	EUT → Spectrum Analyzer		
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.		
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 120MHz (FHSS), RBW 1MHz VBW 1MHz Sweep Time Auto Detector mode Positive peak Indication mode Max hold OBW 99%		
Technical standard:	FH : 83.5MHz		
Test result:	Refer to Appendix: Bluetooth Classic of Report No. EED32S80594402.		

5.1.5 Spread spectrum Bandwidth (90%)

Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
Ambient:	Temp.: 25°C	Humid.: 54%	Press.: 1010mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).Following channel(s) was (were) selected for the final test as listed below.		
Test Configuration:			
	EUT	→	Spectrum Analyzer
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.		
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 120MHz (FHSS), RBW 1MHz VBW 1MHz Sweep Time Auto Detector mode Positive peak Indication mode Max hold OBW 90%		
Technical standard:	500kHz or more		
Test result:	Refer to Appendix: Bluetooth Classic of Report No. EED32S80594402.		

5.1.6 Antenna Power

Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
Ambient:	Temp.: 25°C	Humid.:54%	Press.: 1010 mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.		
Test Configuration:	EUT → Power meter		
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.		
Power meter conditions(FHSS):	Step1:Measure the total power by power meter in a state of hopping mode(with average sensor). Step2:If it is the burst wave, please measure the burst ratio.Then calculate the real total power by burst ratio. Step3:Calculate the mean power per 1MHz by dividing the total power by spread bandwidth. Note: ①Output power density(mW/MHz)=total output power(mW)/burst ratio/spread bandwidth(MHz); ②For burst ratio,please refer to Dwell Time(ON Time/OFF Time).		
Technical standard:	Antenna Power (1) FH, FH+DS , FH+OFDM: 3mW/MHz or less (2) OFDM , DS other than (1): 10mW/MHz or less (3) Other than (1) & (2) :10mW or less Tolerance: +20,No lower limit		
Test result:	Refer to Appendix: Bluetooth Classic of Report No. EED32S80594402.		

6.1.1 Unwanted Emission Strength

Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
Ambient:	Temp.: 25°C	Humid.:54%	Press.: 1010 mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.		
Test Configuration:	EUT → Spectrum Analyzer		
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.		
Measurement Procedure:	Step1 All spurious are measured from 30MHz to 12.5GHz by peak mode. Step2 IF the value measured by Step1 is 2dB or less, measure in average mode.		
Spectrum Analyzer conditions(Step 1):	Frequency: 30MHz-2400MHz , 2483.5MHz-12.5GHz RBW 1000kHz (30MHz-1GHz) , 1000kHz (over 1GHz) VBW 1000kHz (30MHz-1GHz) , 1000kHz (over 1GHz) Sweep Time Auto Detector mode Positive peak Indication mode Max hold		
Spectrum Analyzer conditions(Step 2):	Frequency: Spurious Frequency Span 0Hz RBW 1MHz VBW 1MHz Sweep Time Auto Detector mode Sample Indication mode Max hold		
Technical standard:	(1) Below 2387MHz : 2.5μW/MHz (2) 2387 to 2400MHz : 25μW/MHz (3) 2483.5 through 2496.5MHz : 25μW/MHz (4) Over 2496.5MHz : 2.5μW/MHz		
Test result:	Refer to Appendix: Bluetooth Classic of Report No. EED32S80594402.		

5.1.7 Dwell Time

Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
Ambient:	Temp.: 25°C	Humid.: 54%	Press.: 1010 mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below. Modulation/Spread/Hopping ON, Hopping frequency is fixed, Bluetooth equipment is setting DH1 mode,DH3 mode and DH5 mode		
Test Configuration:	EUT → Spectrum Analyzer		
EUT conditions:	Modulation/Spread/Hopping ON, Hopping frequency is fixed, Bluetooth equipment is setting DH1 mode,DH3 mode and DH5 mode For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.		
Spectrum Analyzer conditions:	Frequency: Test Frequency (Fixed hopping frequency) Span 0Hz RBW 1MHz VBW 3MHz Sweep Time EUT condition Trigger Video Trigger Measures the Transmission time of 1 burst (sec) Measures the Burst cycle (sec)		
Calculation procedure :	$Dwell\ time = (0.4(s) * [Spreading\ rate] * [Transmission\ time\ of\ 1\ burst(s)]) / ([Burst\ cycle(s)] * [No.\ of\ hopping\ channel])$ Note: $Spreading\ rate = [Spread\ bandwidth(actual\ measurement\ value)] / [Transmission\ rate]$		
Technical standard:	Less than 0.4 sec		
Test result:	Refer to Appendix: Bluetooth Classic of Report No. EED32S80594402.		

5.1.8 Pseudorandom Frequency Hopping Sequence

Standard requirement

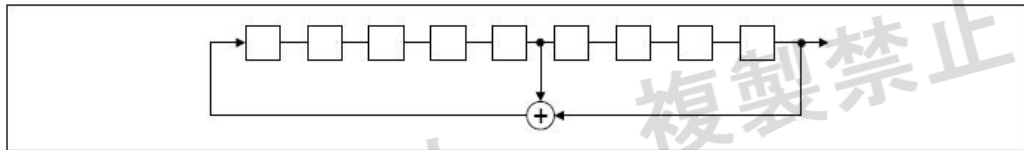
Article 2, Item (19) Notice 88 Appendix 43, 44, 45 requirement:

The EUT shall have the capability to transmit or to receive the MAC identification automatically, so that sender and receiver shall exclude other equipment.

EUT Pseudorandom Frequency Hopping Sequence

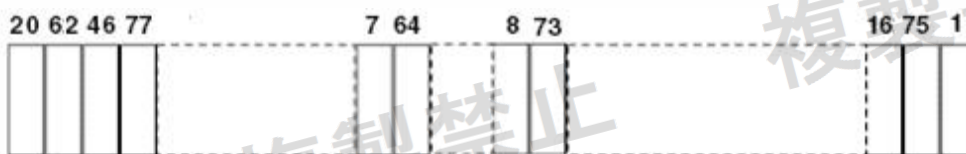
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage, and the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

5.1.9 Interference prevention function

Test Procedure

1) For EUTs capable of automatically transmitting identification data

- a. Transmit identification data from EUT to Demodulator
- b. Confirm identification data is correctly received by Demodulator

2) For EUTs capable of automatically receiving identification data

- c. Transmit identification data from Link Partner to EUT
- d. Confirm communication link is established
- e. Link Partner shall respond by transmitting different identification data back to the EUT
- f. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different

MAC Address: BD:35:9C:BD:35:9C

Test result: The unit does meet the requirements. (PASS)

5.1.10 RF accessibility

Standard requirement

Article 49-20, paragraph 1 (a)

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

☐ Sealed with special screws.
☐ Plastic chassis is being welded using ultrasonic waves.
☐ Chassis is glued using a special adhesive.
☒ Metal covers are spot-fused.
☐ Cover is specially interlocked.
☐ RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is glued with anon-transparent laminating agent.
☐ Semiconductor circuits of high-frequency parts and modulation parts have more than 10 pins distanced smaller than 1.5mm each other.
Refer to internal photos.

5.2 Receiver Requirements

5.2.1 Secondary Radiated Emission Strength

Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
Ambient:	Temp.: 25°C	Humid.:54%	Press.: 1010mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.		
Test Configuration:	EUT → Spectrum Analyzer		
EUT conditions:	Rx		
Measurement Procedure:	Step 1 All spurious are measured from 30MHz to 12.5GHz by peak mode. Step 2 IF the value measured by Step1 is 2dB or less, measure in average mode.		
Spectrum Analyzer conditions(Step 1):	Frequency: 30MHz-2400MHz , 2483.5MHz-12.5GHz RBW 100kHz (30MHz-1GHz) , 1MHz (over 1GHz) VBW 100kHz (30MHz-1GHz) , 1MHz (over 1GHz) Sweep Time Auto Detector mode Positive peak Indication mode Max hold		
Spectrum Analyzer Conditions(Step 2):	Frequency: Spurious Frequency Span 0Hz RBW 100kHz (30MHz-1GHz) , 1MHz (over 1GHz) VBW 100kHz (30MHz-1GHz) , 1MHz (over 1GHz) Sweep Time Auto Detector mode Sample Indication mode Max hold		
Technical standard:	(1) Below 1GHz : 4nW or less (2) 1GHz and over : 20nW or less		
Test result:	Refer to Appendix: Bluetooth Classic of Report No. EED32S80594402.		

6 PHOTOGRAPHS

Refer to Appendix Photographs of Report No. EED32S80594401.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***