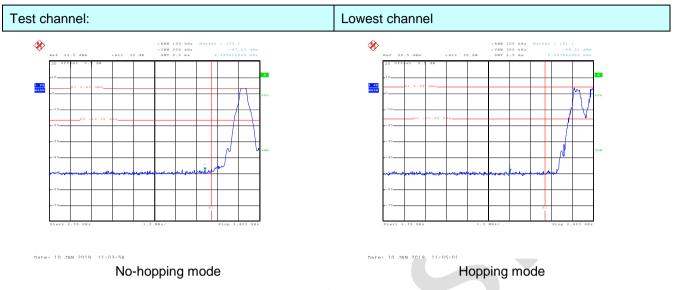


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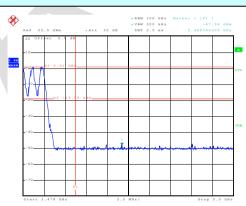
GFSK Mode:



Test channel:

No-hopping mode

Highest channel



Date: 10.JAN.2019 11:19:46

Hopping mode

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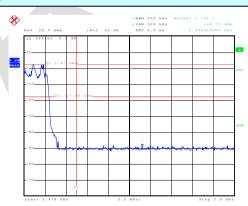
Pi/4QPSK Mode:



Test channel:

No-hopping mode

Highest channel



Date: 10.JAN.2019 11:18:34

Hopping mode

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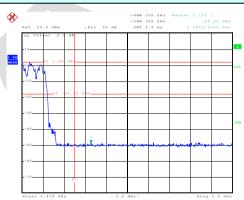
8-DPSK Mode:



Test channel:

No-hopping mode

Highest channel



Date: 10.JAN.2019 11:15:44

Hopping mode

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7.9.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	All restriction band have been tested, and 2310MHz to 2390MHz, 2483.5MHz to 2500MHz band is the worse case						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Remark		
·	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	Above 1G112	Peak	1MHz	10Hz	Average Value		
Limit:	Freque	ency	Limit (dBuV/		Remark		
	Above 1	GHz –	54.0 74.0		Average Value Peak Value		
Test setup:	Turn Table* < 150cm > 4	< 3m	***************************************		Peak Value		
Test Procedure:	Tum Table						
Test Instruments:	Refer to section	6.0 for details					
Test mode:	Refer to section	5.2 for details					
Test results:	Pass						

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Remark:

1. During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

Test channel: Lov	Lowest
-------------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2310.00	54.36	-14.56	39.80	74.00	-34.20	Horizontal	
2390.00	53.17	-14.19	38.98	74.00	-35.02	Horizontal	
2310.00	55.59	-14.85	40.74	74.00	-33.26	Vertical	
2390.00	56.64	-14.52	42.12	74.00	-31.88	Vertical	

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	44.03	-14.56	39.47	54.00	-24.53	Horizontal
2390.00	43.26	-14.19	29.07	54.00	-24.98	Horizontal
2310.00	42.58	-14.85	27.73	54.00	-26.27	Vertical
2390.00	48.23	-14.52	33.71	54.00	-20.29	Vertical

Test channel:	Highest
---------------	---------

Peak value:

reak value.						
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	55.07	-13.66	41.41	74.00	-32.59	Horizontal
2500.00	57.71	-13.57	44.14	74.00	-29.86	Horizontal
2483.50	56.03	-14.05	41.98	74.00	-32.02	Vertical
2500.00	58.64	-13.97	44.67	74.00	-29.33	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.06	-13.66	32.40	54.00	-21.60	Horizontal
2500.00	45.51	-13.57	31.94	54.00	-22.06	Horizontal
2483.50	46.03	-14.05	31.98	54.00	-22.02	Vertical
2500.00	47.15	-13.97	33.18	54.00	-20.82	Vertical

Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. Correct factor= Antenna Factor + Cable Loss Preamplifier Factor

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7.10 Spurious Emission

7.10.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

Remark:

During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

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Test channel: Lowest channel 30MHz~25GHz Test channel: Middle channel * Date: 10.JAN.2019 10:32:16 30MHz~25GHz Test channel: Highest channel **%**

Date: 10.JAN.2019 11:02:14 30MHz~25GHz

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7.10.2 Radiated Emission Method

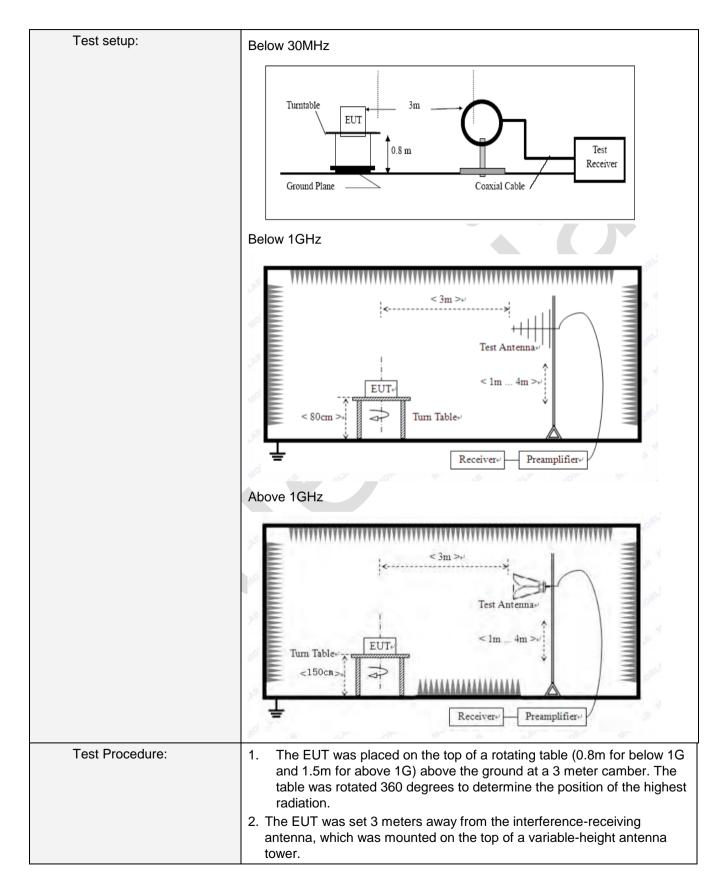
Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distar	Measurement Distance: 3m						
Receiver setup:	Frequency	[Detector	RB'	W	VBW	Value	
	9KHz-150KHz		PK/AV	200	Hz	600H	z PK/AV	
	150KHz-30MHz	Pł	(/AV/QP	9Kł	Ηz	30KH:	z PK/AV/QP	
	30MHz-1GHz	Qı	uasi-peak	120k	Ήz	300KH	z Quasi-peak	
	Above 1GHz		Peak	1MI	Ηz	3MHz	Peak	
	Above 1GHz		Peak	1MI	Hz 10Hz		Average	
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)		Value		Measurement Distance	
	0.009MHz-0.490M	lHz	2400/F(KHz)		QP		300m	
	0.490MHz-1.705M	lHz	24000/F(KH		QP		300m	
	1.705MHz-30MH	lz	30		QP		30m	
	30MHz-88MHz		100		QP			
	88MHz-216MHz	<u>z</u>	150			QP		
	216MHz-960MH	Z	z 200				3m	
	960MHz-1GHz		500		QP		Sili	
	Above 1GHz		500		Αv	erage		
	Above 1G112		5000		Peak			
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.							

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	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Remark:

- 1. During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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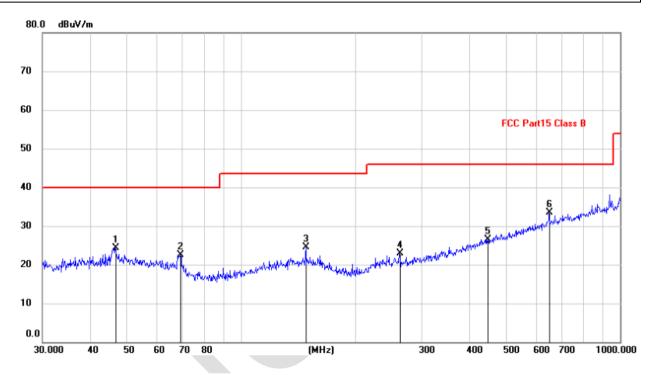
■ Below 1GHz

EUT: BlueTooth Earphone Polarziation: Horizontal

Model: TWS-598 Power Source: AC120V/60Hz

Mode: BT mode Test by: Alex

Temp./Hum.(%H): 26°C/60%RH



			Reading	Correct	Measure		_	
N	o. M	lk. Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	46.6664	10.48	13.88	24.36	40.00	-15.64	QP
	2	69.3568	11.63	10.95	22.58	40.00	-17.42	QP
	3	148.4410	11.39	13.04	24.43	43.50	-19.07	QP
	4	261.9753	10.16	12.70	22.86	46.00	-23.14	QP
	5	447.9821	8.90	17.65	26.55	46.00	-19.45	QP
	6 *	649.6597	11.92	21.64	33.56	46.00	-12.44	QP

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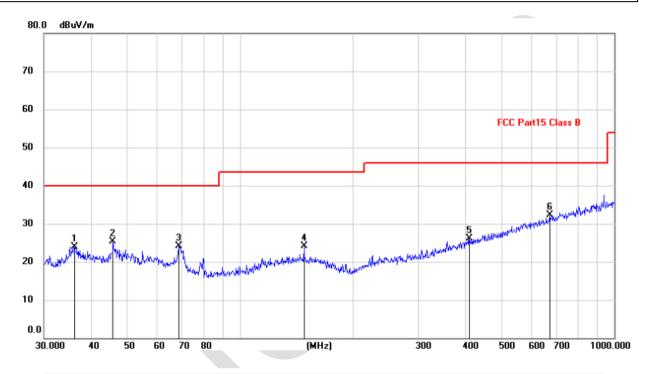
EUT: BlueTooth Earphone Polarziation: Vertical

Model: TWS-598 Power Source: AC120V/60Hz

Mode: BT mode Test by: Alex

Temp./Hum.(%H): 26 °C/60%RH

Note:



No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		36.1272	11.11	12.85	23.96	40.00	-16.04	QP
2		45.8551	11.39	13.87	25.26	40.00	-14.74	QP
3		68.8721	13.10	11.04	24.14	40.00	-15.86	QP
4		148.4410	11.00	13.04	24.04	43.50	-19.46	QP
5		408.9460	9.41	16.72	26.13	46.00	-19.87	QP
6	*	672.8444	10.42	21.98	32.40	46.00	-13.60	QP

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■ Above 1GHz

Test channel: Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	60.28	-7.43	52.85	74.00	-21.15	Vertical
7206.00	58.87	-2.42	56.45	74.00	-17.55	Vertical
9608.00	57.45	-2.38	55.07	74.00	-18.93	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	63.20	-7.43	55.77	74.00	-18.23	Horizontal
7206.00	58.16	-2.42	55.74	74.00	-18.23	Horizontal
9608.00	58.47	-2.38	56.09	74.00	-17.91	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	52.41	-7.43	44.98	54.00	-9.02	Vertical
7206.00	49.62	-2.42	47.20	54.00	-6.80	Vertical
9608.00	48.84	-2.38	46.46	54.00	-7.54	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	55.74	-7.43	48.31	54.00	-5.69	Horizontal
7206.00	47.74	-2.42	45.32	54.00	-8.68	Horizontal
9608.00	48.08	-2.38	45.70	54.00	-8.30	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*	·		54.00	· · · · · · · · · · · · · · · · · · ·	Horizontal

Remark

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Test channel:	Middle
1 CSt Charlict.	Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	60.32	-7.49	52.83	74.00	-21.17	Vertical
7323.00	58.55	-2.40	56.15	74.00	-17.85	Vertical
9764.00	58.14	-2.38	55.76	74.00 -18		Vertical
12205.00	*			74.00		Vertical
14646.00	*			74.00		Vertical
4882.00	61.51	-7.49	54.02	74.00	-19.98	Horizontal
7323.00	58.37	-2.40	55.97	74.00	-18.03	Horizontal
9764.00	59.63	-2.38	57.25	74.00	-16.75	Horizontal
12205.00	*			74.00		Horizontal
14646.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	49.83	-7.49	42.34	54.00	-11.66	Vertical
7323.00	48.26	-2.40	45.86	54.00	-8.14	Vertical
9764.00	48.13	-2.38	45.75	54.00	-8.25	Vertical
12205.00	*			54.00		Vertical
14646.00	*			54.00		Vertical
4882.00	48.03	-7.49	40.54	54.00	-13.46	Horizontal
7323.00	47.26	-2.40	44.85	54.00	-9.14	Horizontal
9764.00	49.03	-2.38	46.65	54.00	-7.35	Horizontal
12205.00	*			54.00		Horizontal
14646.00	*			54.00		Horizontal

Remark:

- 1. Final Level = Receiver Read level + Correct facto
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	53.23	-7.47	45.76	74.00	-28.24	Vertical
7440.00	56.03	-2.45	53.58	74.00	-20.42	Vertical
9920.00	58.14	-2.37	55.77	74.00	-18.23	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	56.53	-7.47	49.06	74.00	-24.94	Horizontal
7440.00	57.47	-2.45	55.02	74.00	-18.98	Horizontal
9920.00	58.23	-2.37	55.86	74.00	-18.14	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	44.03	-7.47	36.56	54.00	-17.44	Vertical
7440.00	45.61	-2.45	43.16	54.00	-10.84	Vertical
9920.00	47.29	-2.37	44.92	54.00	-9.08	Vertical
12400.00	*		>	54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	46.34	-7.47	38.87	54.00	-15.13	Horizontal
7440.00	45.71	-2.45	43.36	54.00	-10.74	Horizontal
9920.00	47.03	-2.37	44.66	54.00	-9.34	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.

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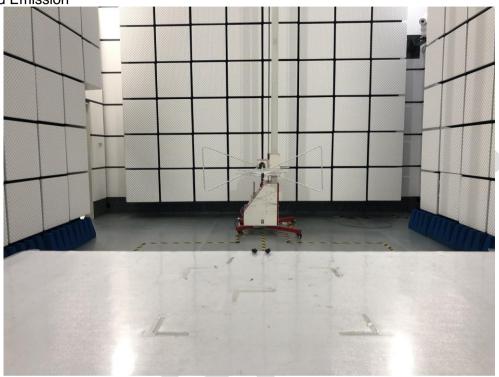
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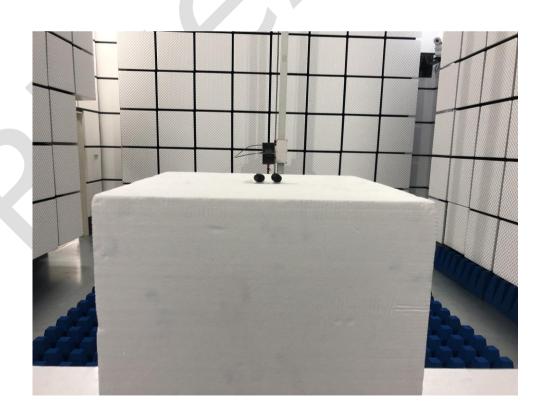


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8 Test Setup Photo

Radiated Emission





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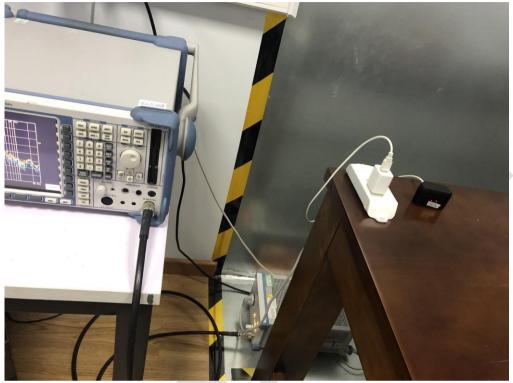
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Conducted Emission



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9 EUT Constructional Details





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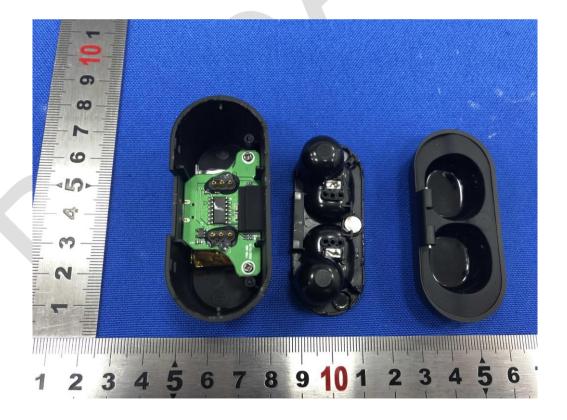
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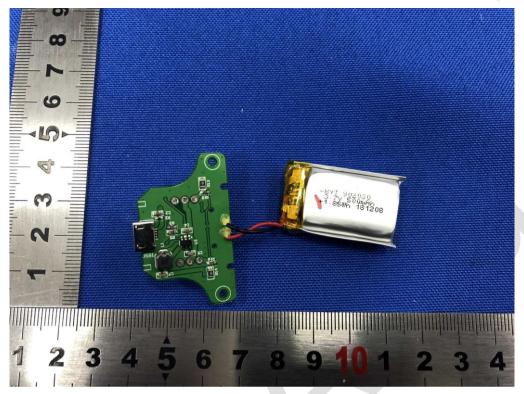
Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd.

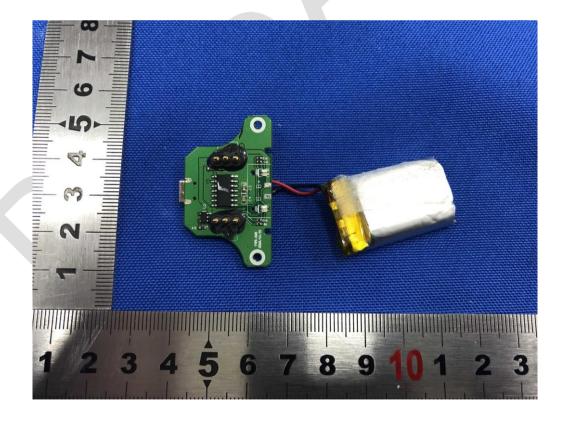
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 $\label{thm:condition} \mbox{Qianhai BlueAsia of Technical Services} (\mbox{Shenzhen}) \mbox{ Co., Ltd.}$

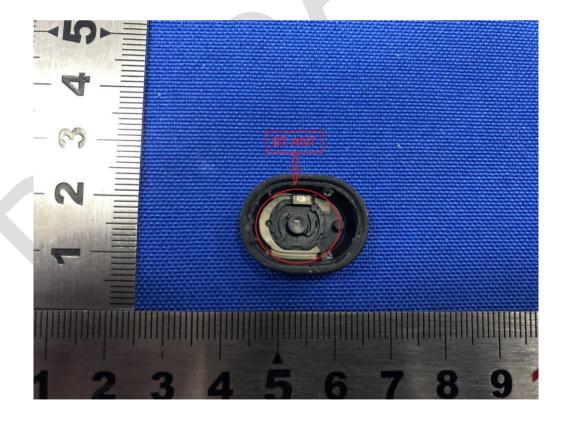
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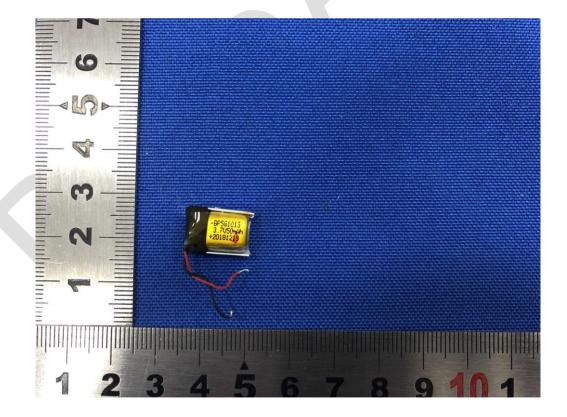
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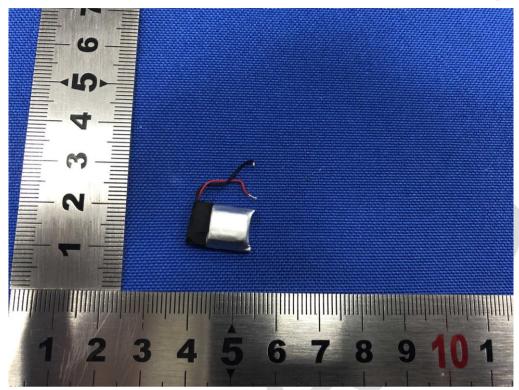
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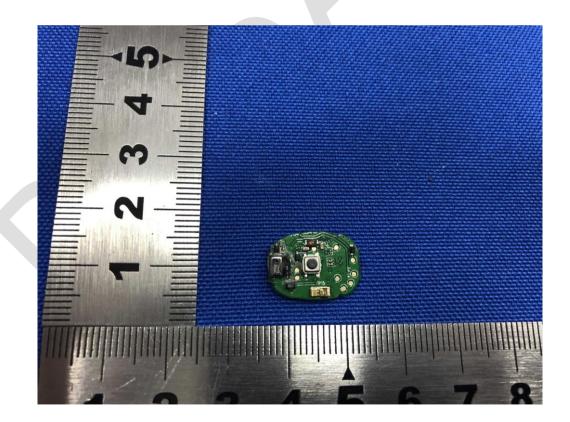
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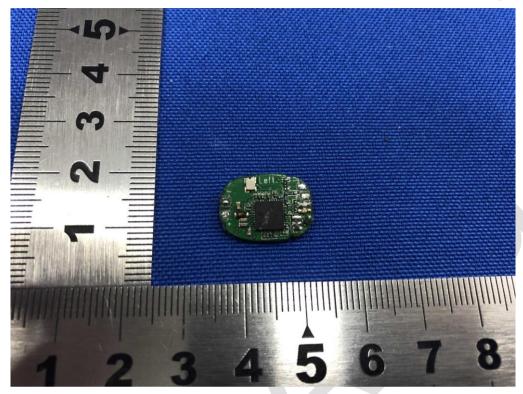
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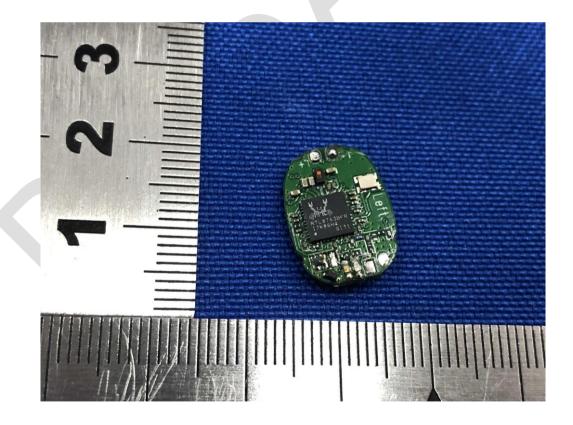
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*** End of Report ***

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