

# TEST REPORT

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## 4.1.6 Radiated Emission

RESULT:

**PASS**

Test standard	: FCC Part 15.247(d), 15.205, 15.209, RSS-GEN 8.9
Requirement	: ANSI C63.10-2013, Clause 11.12 KDB 558074 D01 v05r02, Clause 8.6
Kind of test site	: 3m Semi-Anechoic Chamber

### Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 22.3-25.1°C
Relative humidity	: 42-47%

### Notes

*Test plots please refer to the annex document "SHE24120036-02DE DATA WIFI 2.4GHz-TX EXHIBIT A".*

- 1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.*
- 2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.*
- 3. All test modes had been pre-tested, but only the 802.11b at low channel of below 1 GHz is the worst case and recorded in the report.*
- 4. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.*

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## 4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

**PASS**

Test standard	: FCC Part 15.247(d), 15.205, 15.209, RSS-GEN 8.10
Requirement	: ANSI C63.10-2013, Clause 11.13 KDB 558074 D01 v05r02, Clause 8.7
Kind of test site	: 3m Semi-Anechoic Chamber

### Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 25.1°C
Relative humidity	: 47%

### Notes:

1. Test plots please refer to the annex document "SHE24120036-02DE DATA WIFI 2.4GHz-TX EXHIBIT A".
2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

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## 4.2 Mains Emissions

### 4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207(a), RSS-Gen 8.8
Requirement	: ANSI C63.10-2013, Clause 6.2
Kind of test site	: Shielded room

#### Test setup

Input Voltage	: which received AC 120V, 60Hz Power
Operation Mode	: A.1.a
Earthing	: Disconnected to GND
Ambient temperature	: 23.7°C
Relative humidity	: 52%

For details refer to following test plot.

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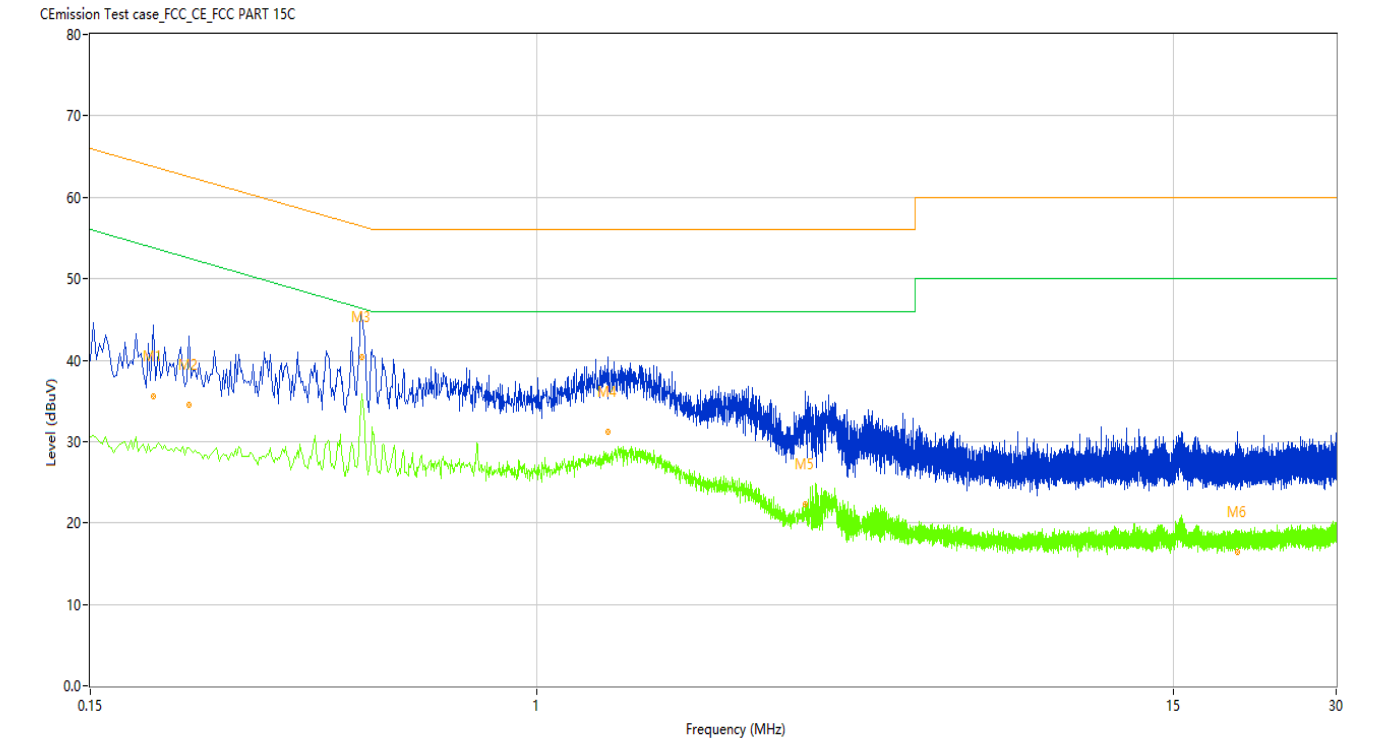
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*Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.*

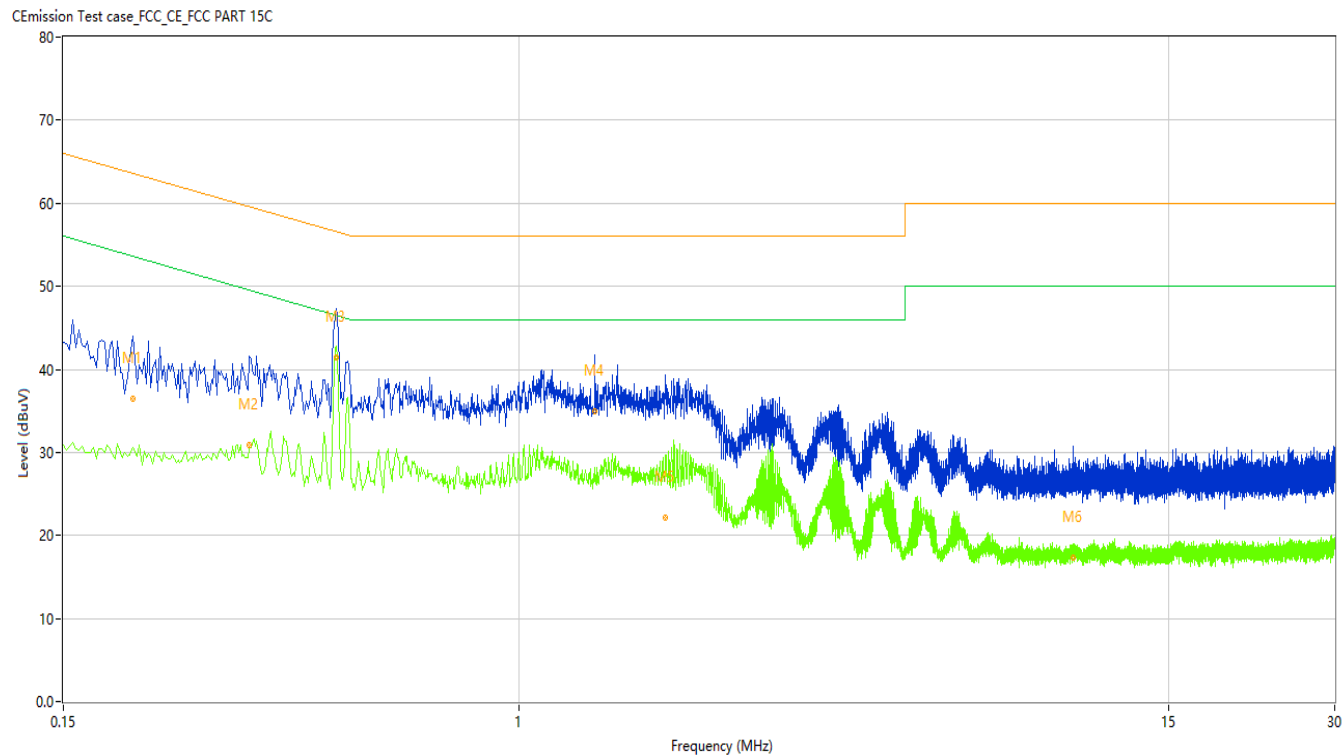
Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.196	42.69	10.21	63.78	21.09	Peak	L	Pass
1*	0.196	35.61	10.21	63.78	28.17	QP	L	Pass
1**	0.196	29.20	10.21	53.78	24.58	AV	L	Pass
2	0.228	41.77	10.16	62.52	20.75	Peak	L	Pass
2*	0.228	34.45	10.16	62.52	28.07	QP	L	Pass
2**	0.228	29.18	10.16	52.52	23.34	AV	L	Pass
3	0.476	45.29	10.10	56.41	11.12	Peak	L	Pass
3*	0.476	40.40	10.10	56.41	16.01	QP	L	Pass
3**	0.476	35.87	10.10	46.41	10.54	AV	L	Pass
4	1.354	36.59	9.93	56.00	19.41	Peak	L	Pass
4*	1.354	31.25	9.93	56.00	24.75	QP	L	Pass
4**	1.354	28.43	9.93	46.00	17.57	AV	L	Pass
5	3.136	27.36	10.11	56.00	28.64	Peak	L	Pass
5*	3.136	22.30	10.11	56.00	33.70	QP	L	Pass
5**	3.136	22.42	10.11	46.00	23.58	AV	L	Pass
6	19.744	24.53	11.01	60.00	35.47	Peak	L	Pass
6*	19.744	16.47	11.01	60.00	43.53	QP	L	Pass
6**	19.744	18.61	11.01	50.00	31.39	AV	L	Pass

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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.200	42.58	10.21	63.61	21.03	Peak	N	Pass
1*	0.200	36.50	10.21	63.61	27.11	QP	N	Pass
1**	0.200	30.55	10.21	53.61	23.06	AV	N	Pass
2	0.326	38.70	10.09	59.55	20.85	Peak	N	Pass
2*	0.326	30.82	10.09	59.55	28.73	QP	N	Pass
2**	0.326	30.42	10.09	49.55	19.13	AV	N	Pass
3	0.468	44.83	10.13	56.55	11.72	Peak	N	Pass
3*	0.468	41.47	10.13	56.55	15.08	QP	N	Pass
3**	0.468	42.85	10.13	46.55	3.70	AV	N	Pass
4	1.376	38.88	9.96	56.00	17.12	Peak	N	Pass
4*	1.376	34.94	9.96	56.00	21.06	QP	N	Pass
4**	1.376	28.14	9.96	46.00	17.86	AV	N	Pass
5	1.844	31.39	10.03	56.00	24.61	Peak	N	Pass
5*	1.844	22.15	10.03	56.00	33.85	QP	N	Pass
5**	1.844	29.61	10.03	46.00	16.39	AV	N	Pass
6	10.096	23.67	10.48	60.00	36.33	Peak	N	Pass
6*	10.096	17.31	10.48	60.00	42.69	QP	N	Pass
6**	10.096	18.76	10.48	50.00	31.24	AV	N	Pass

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## 5 Appendixes

### 5.1 Photographs of the Sample



Front of the sample



Rear of the sample

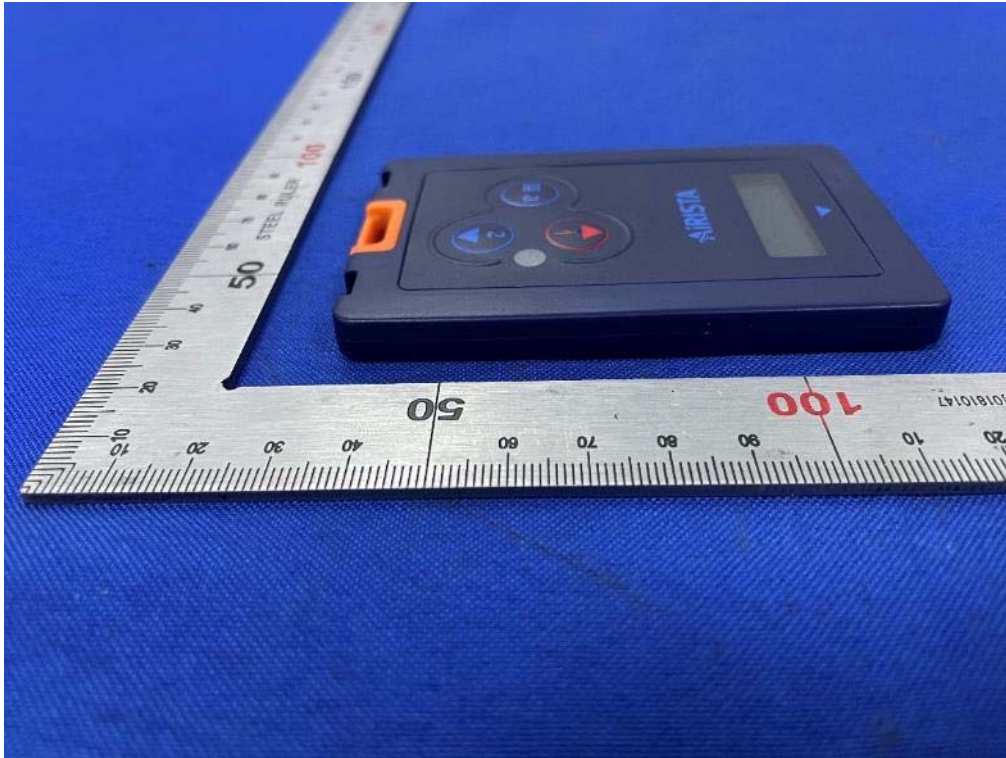


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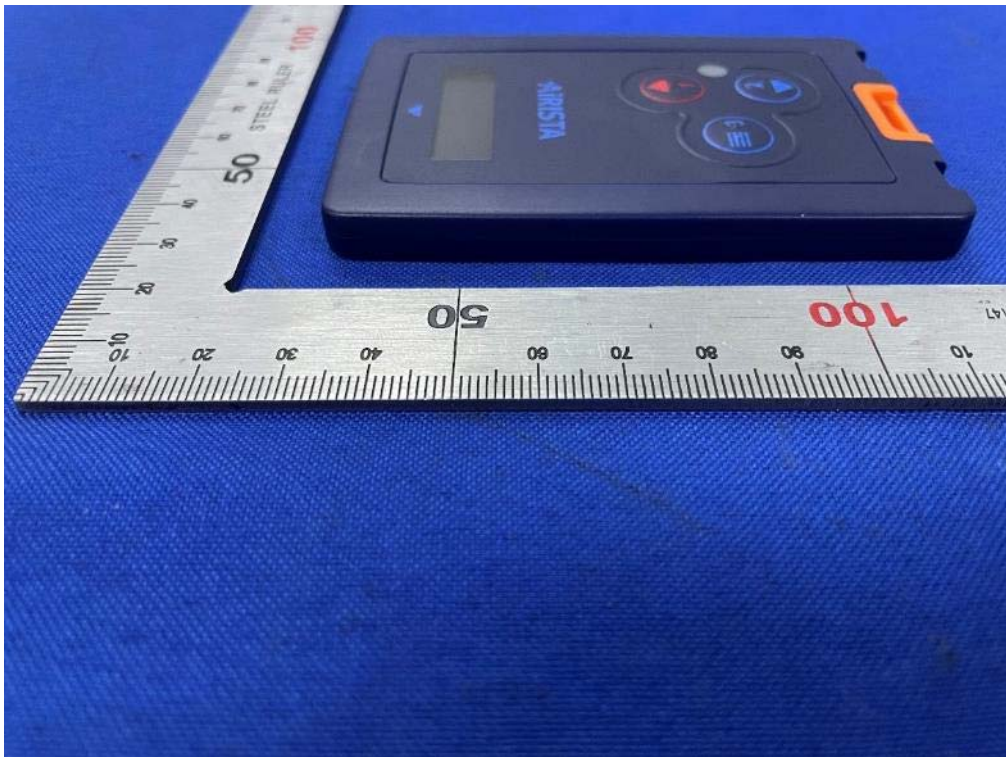
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Left of the sample



Right of the sample

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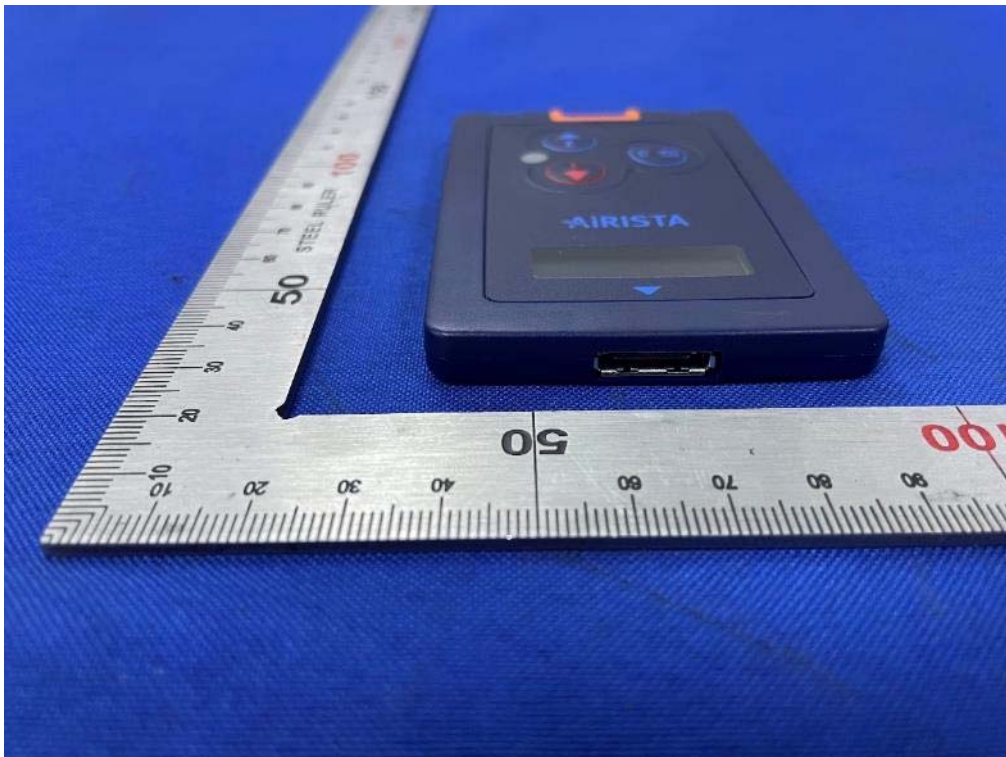
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Top of the sample



Bottom of the sample



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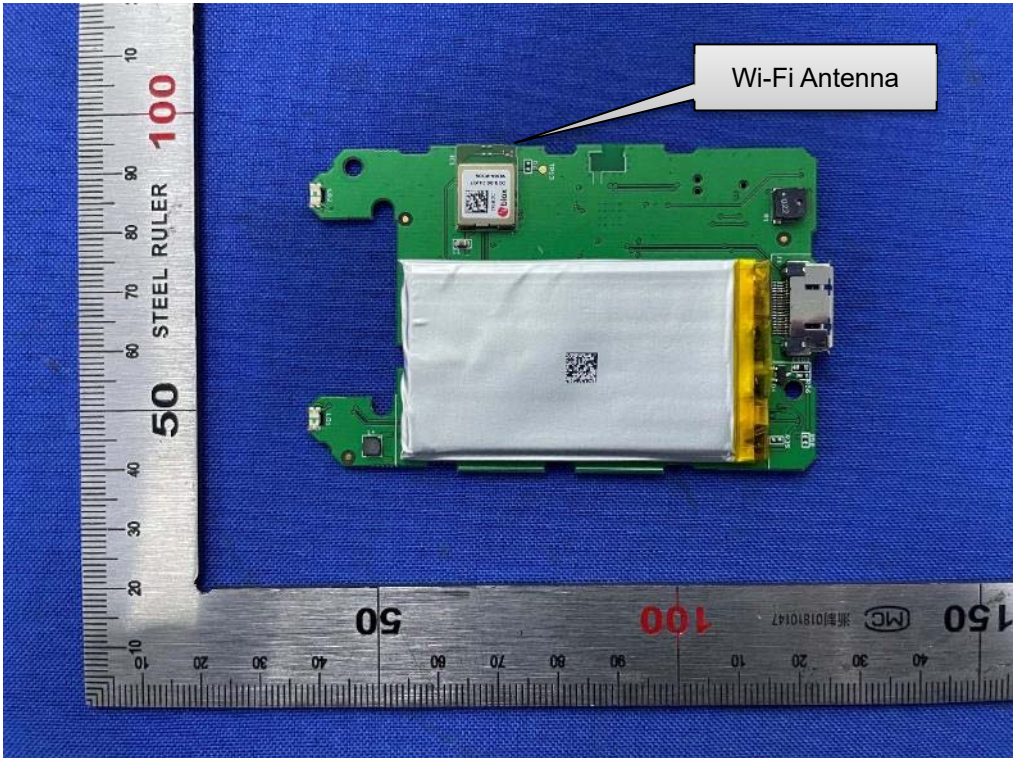
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Open of the sample



Internal-1 of the sample

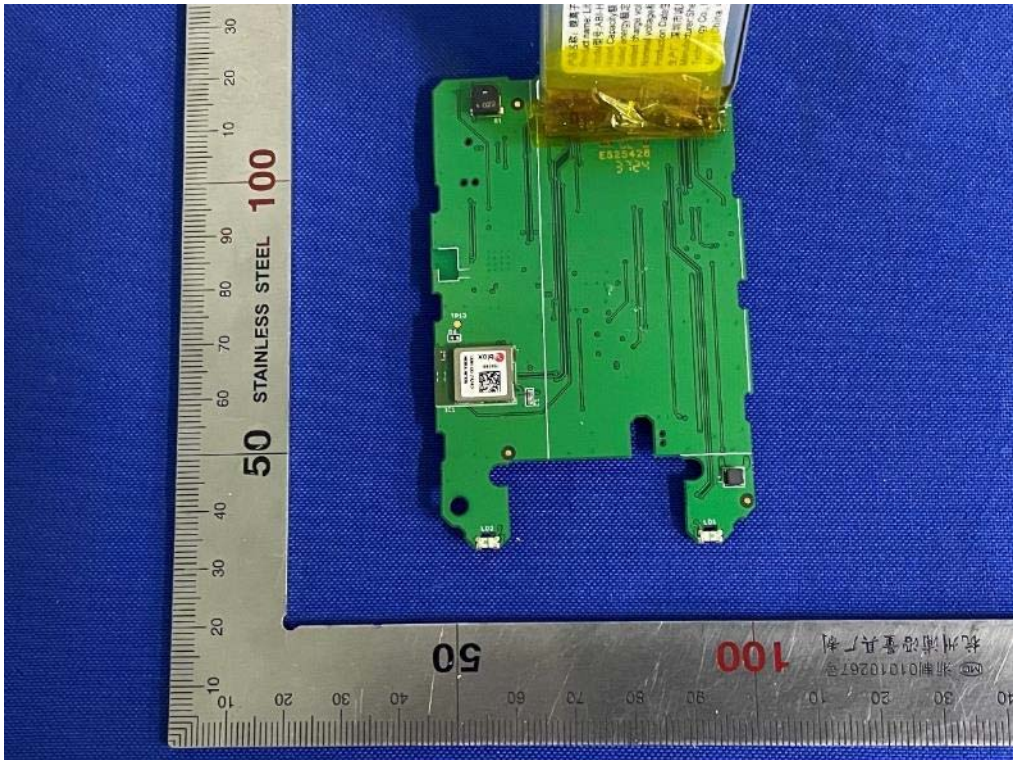


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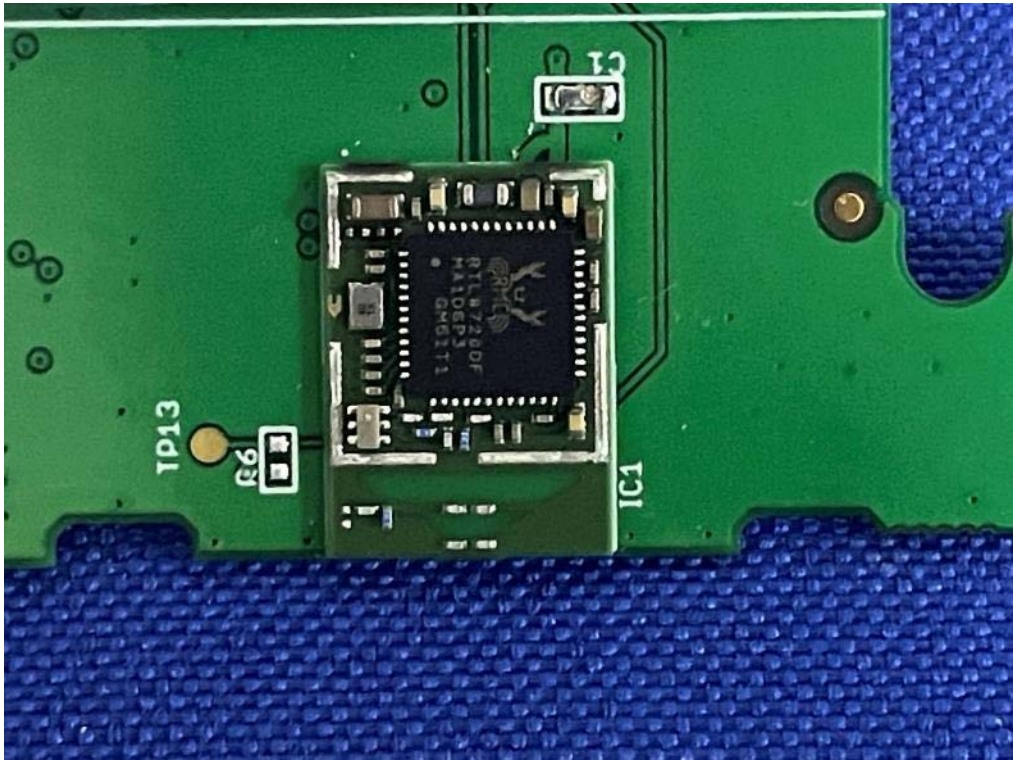
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Internal-2 of the sample



NORA-W306 Module

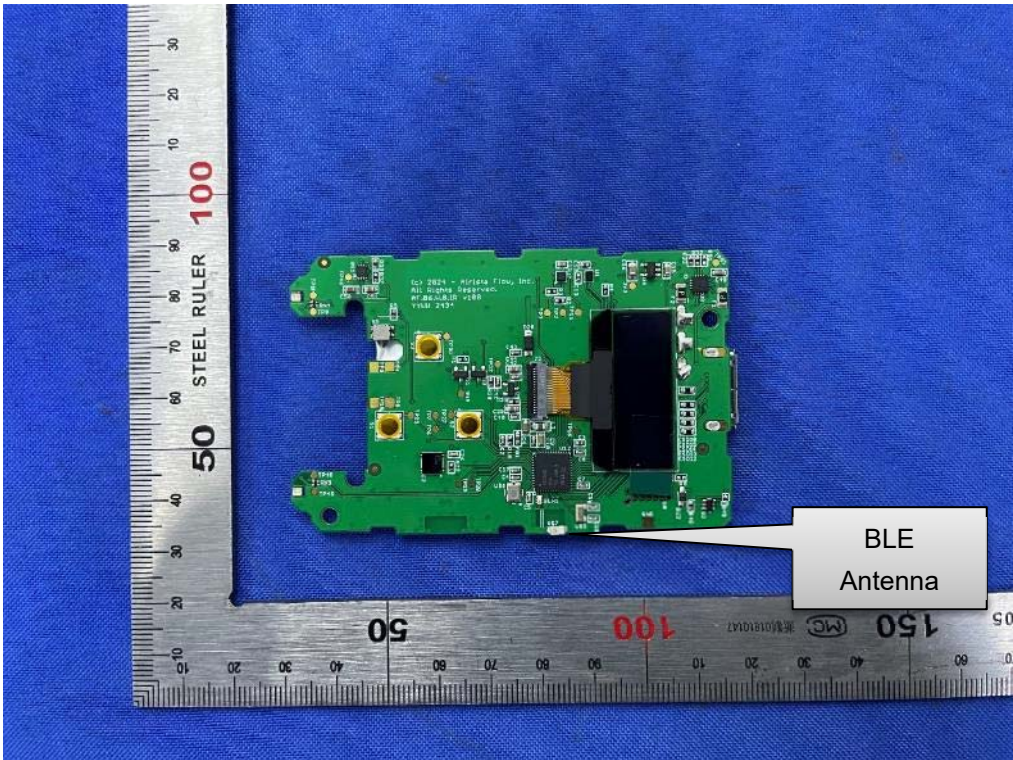


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Internal-3 of the sample

Add a B6 model with a white shell

(Note: The difference is that only the shell color is different, everything else is the same)



Front of the sample

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Rear of the sample



Left of the sample

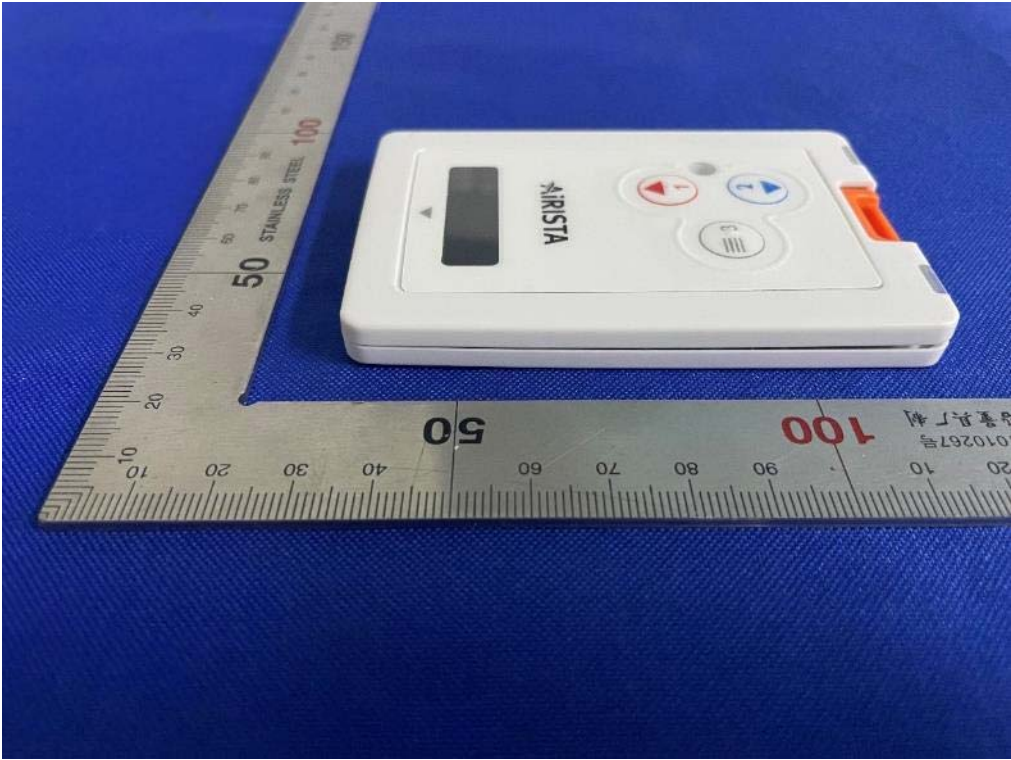


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Right of the sample



Top of the sample



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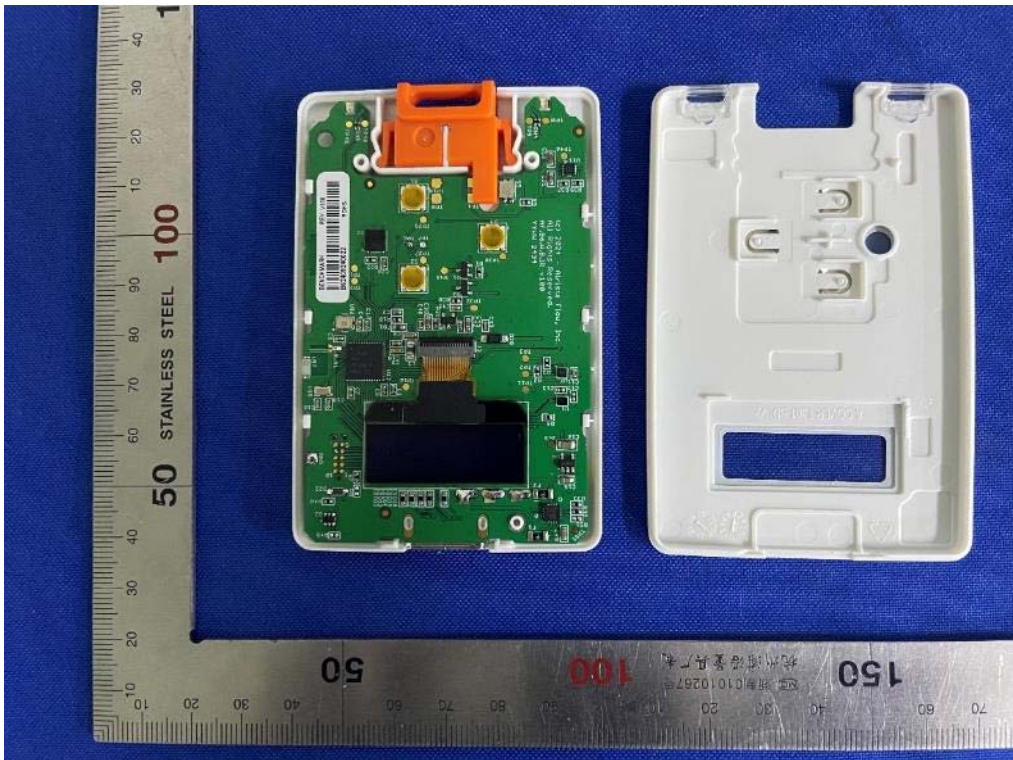
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Bottom of the sample



Open of the sample

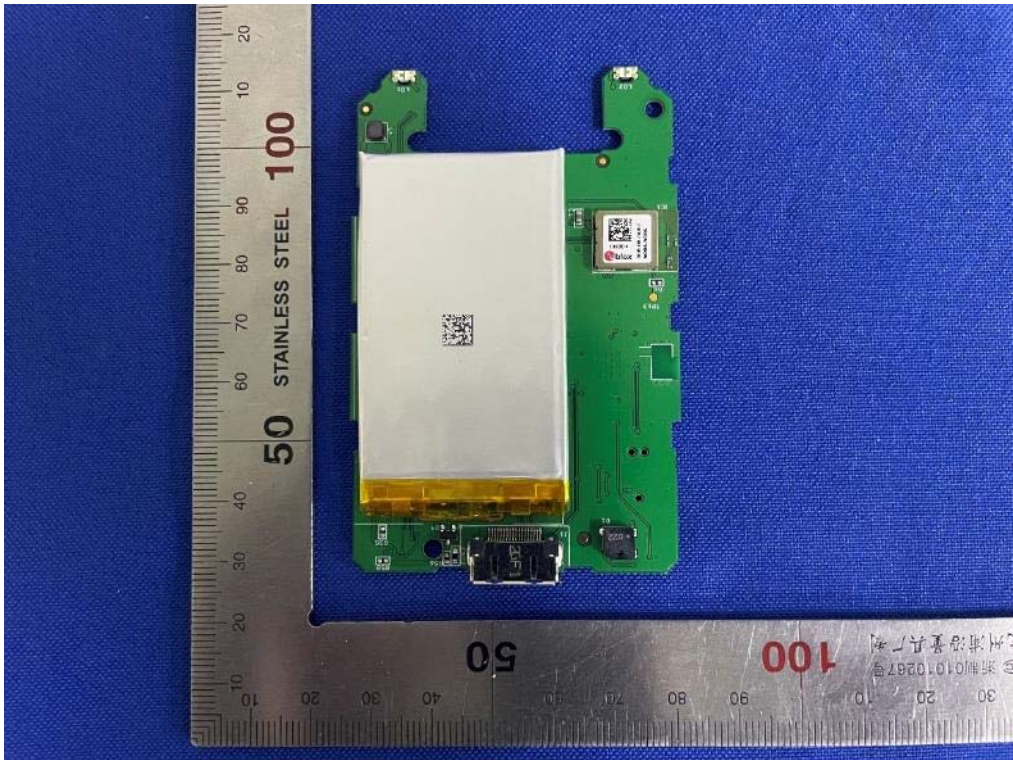


# TEST REPORT

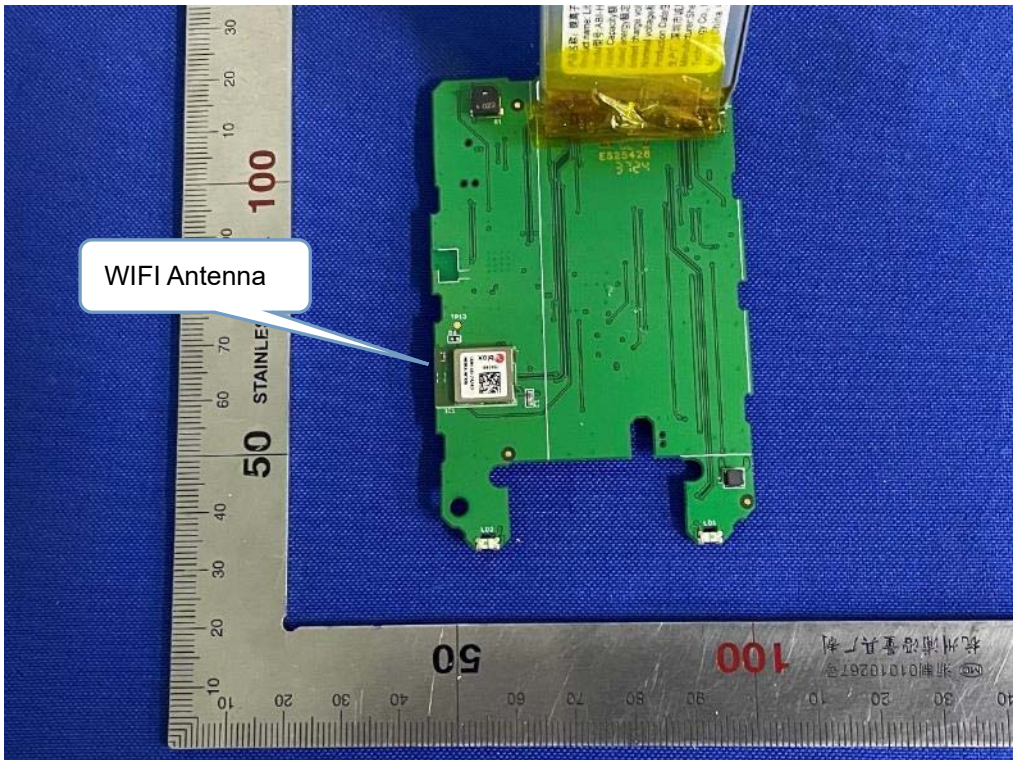
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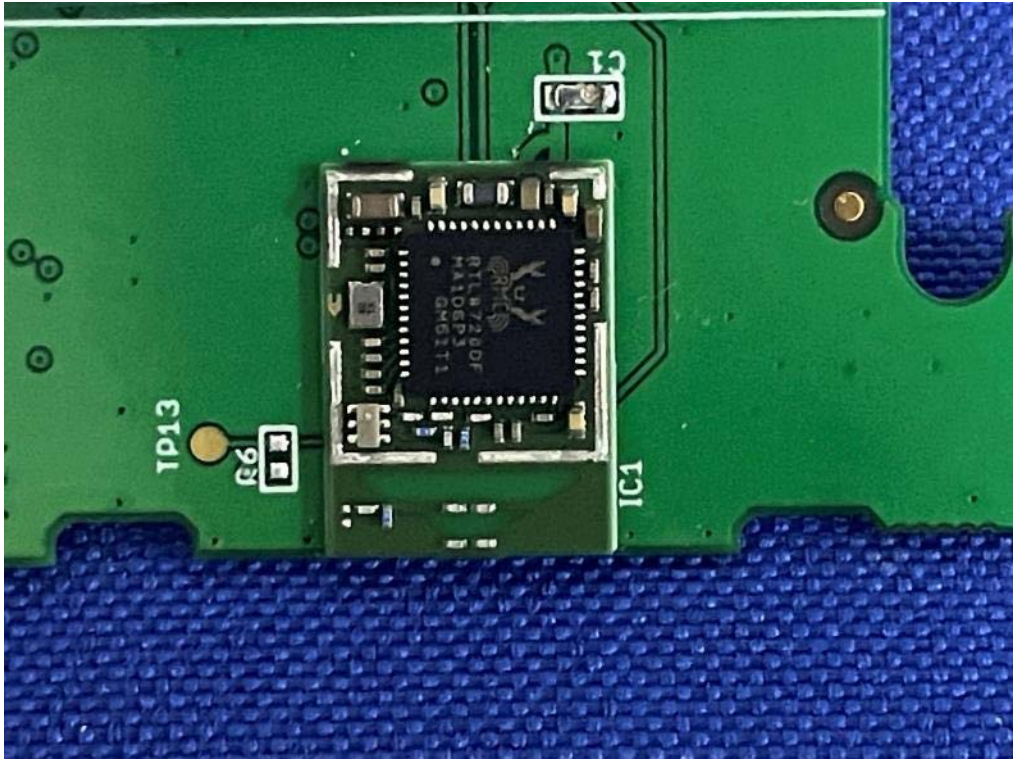
Internal-1 of the sample



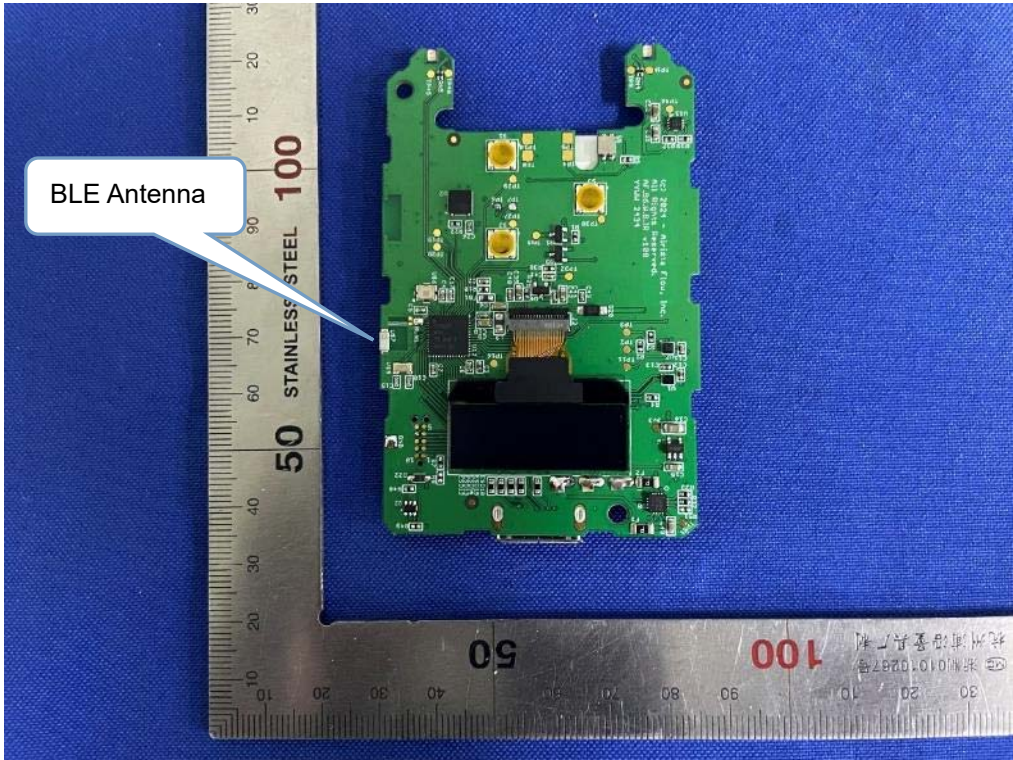
Internal-2 of the sample



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NORA-W306 Module



Internal-3 of the sample

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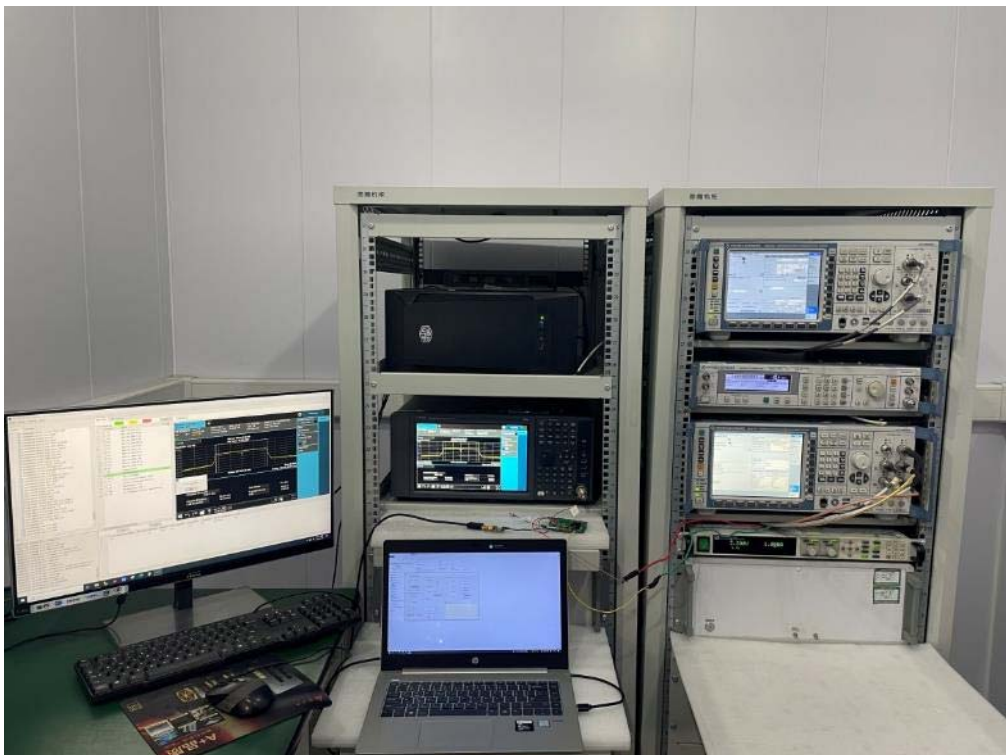
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## 5.2 Set-up for Conducted Emissions



## 5.3 Set-up for Conducted RF test at Antenna Port





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## 5.4 Set-up for Spurious Emissions below 1GHz



## 5.5 Set-up for Spurious Emissions above 1GHz



\*\*\*End of the report\*\*\*