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Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



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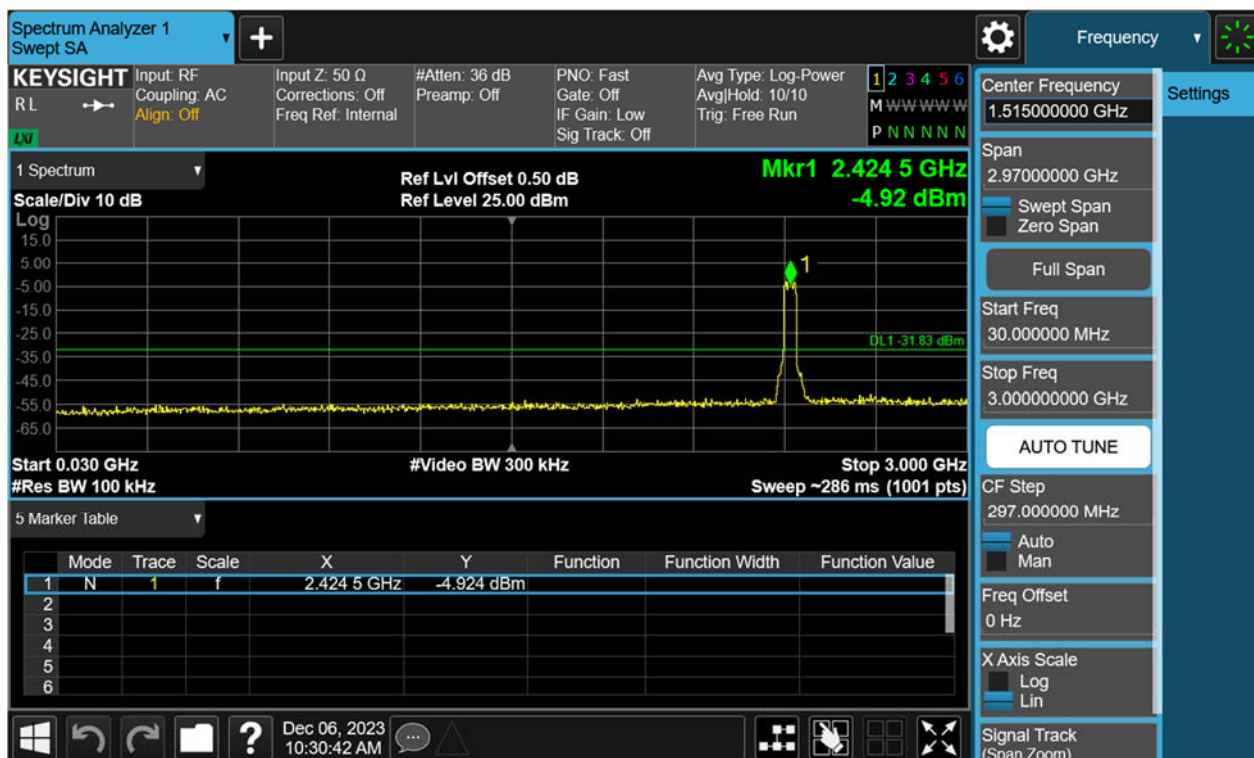
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



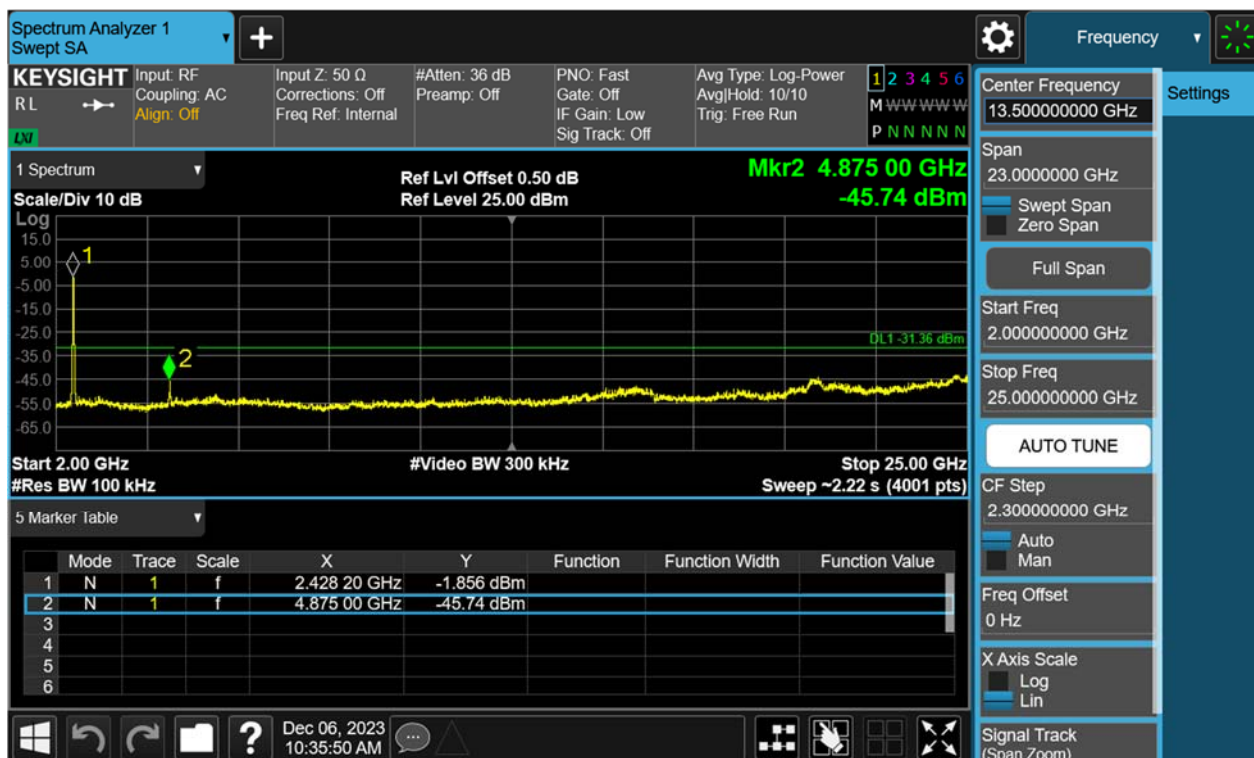
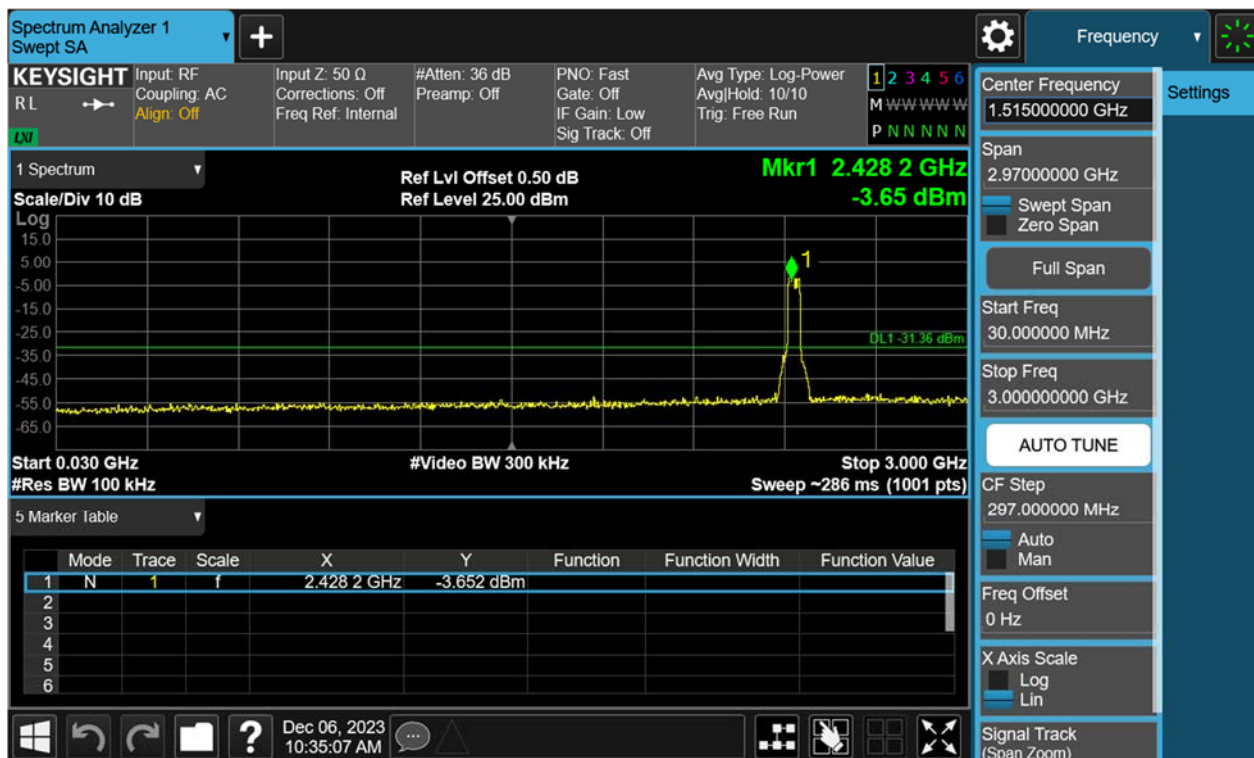
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Conducted spurious emissions 30MHz-25GHz



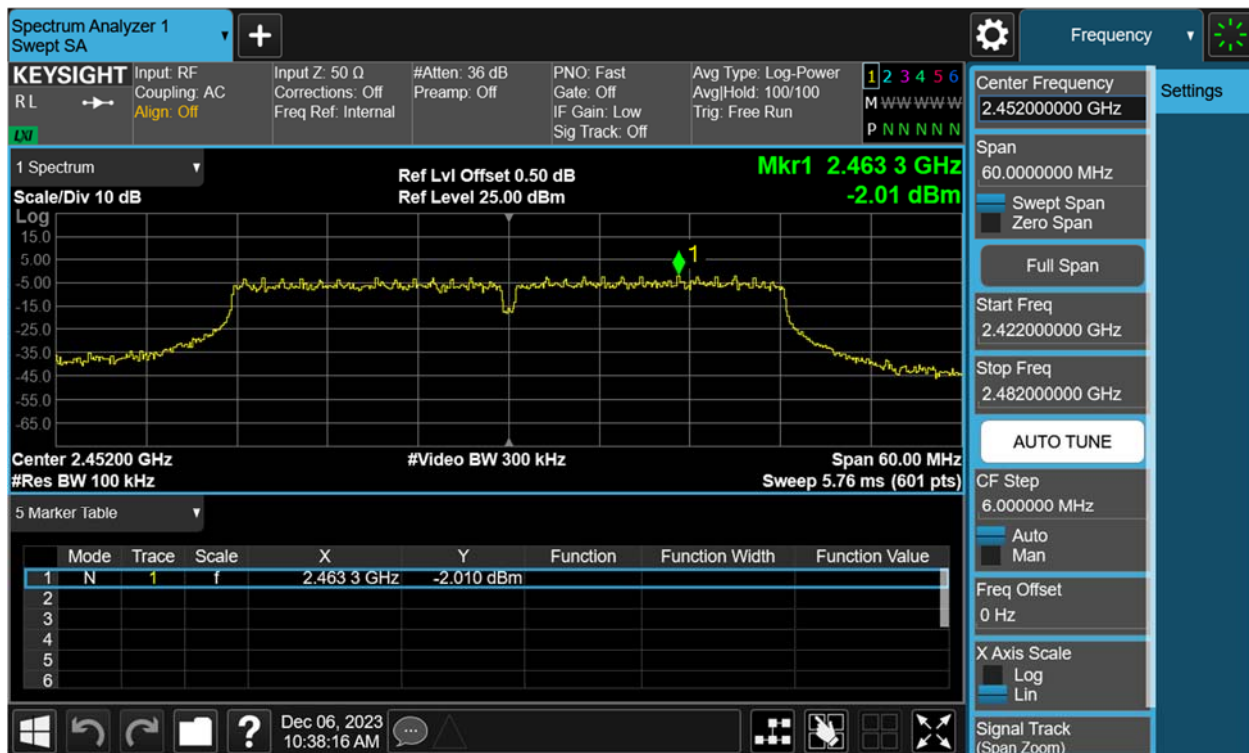
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



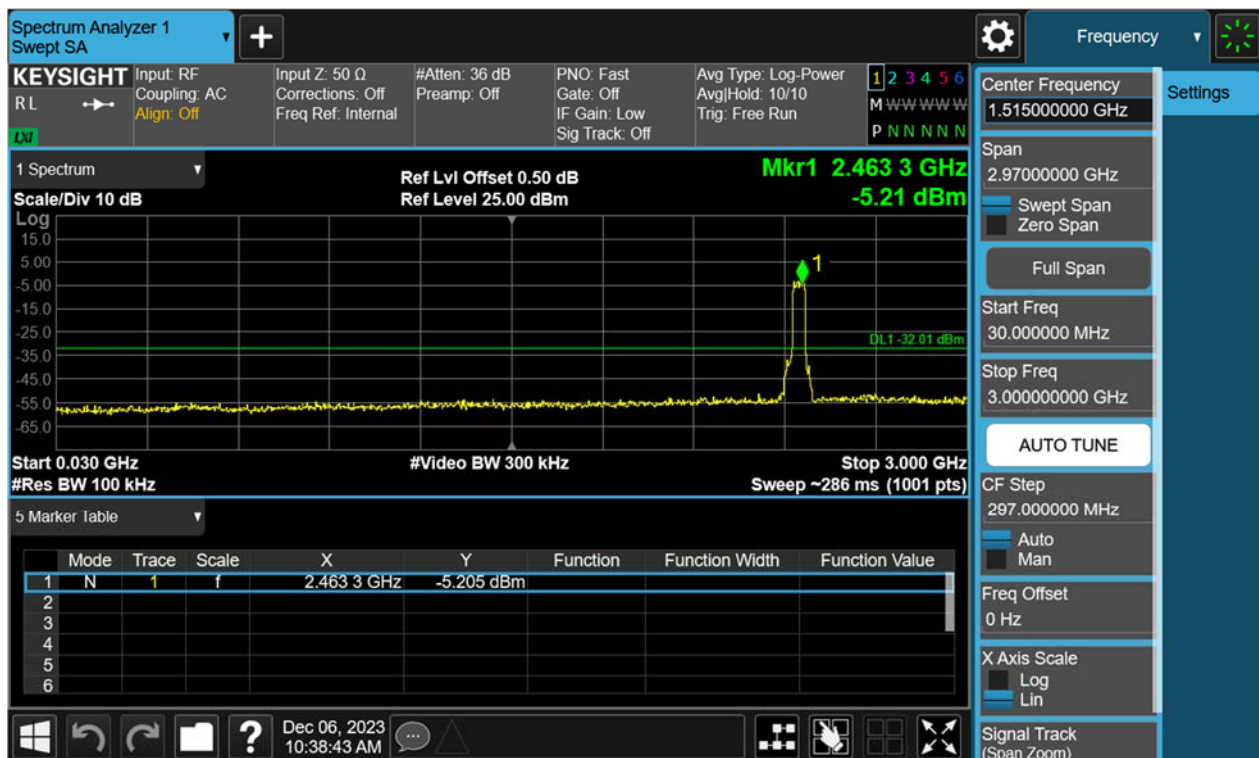
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Conducted spurious emissions 30MHz-25GHz



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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	: 25.1°C
Relative humidity	: 52%

Notes

Test plots please refer to the annex document "SHE23060106-02BE 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	: 52%

Notes:

1. Test plots please refer to the annex document “SHE23060106-02BE 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	: 26°C
Relative humidity	: 49%

For details refer to following test plot.

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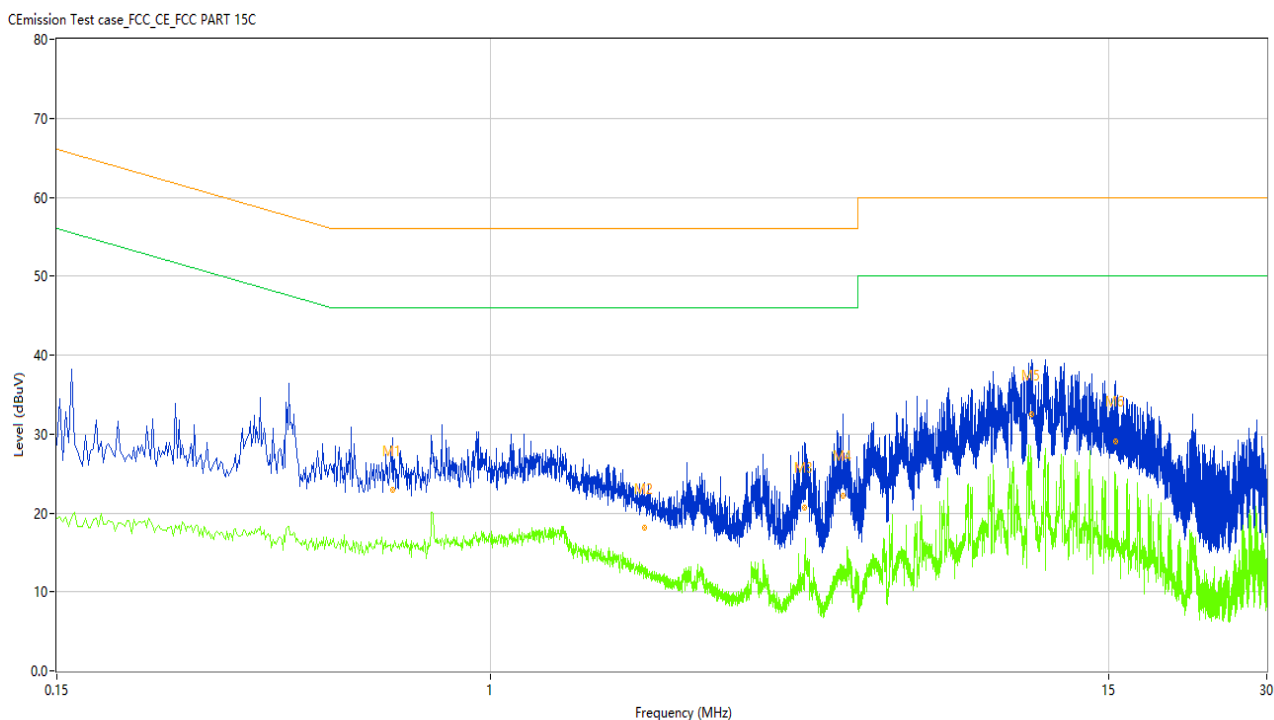
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.654	32.70	9.97	56.00	23.30	Peak	L	Pass
1*	0.654	22.86	9.97	56.00	33.14	QP	L	Pass
1**	0.654	15.57	9.97	46.00	30.43	AV	L	Pass
2	1.968	26.98	9.85	56.00	29.02	Peak	L	Pass
2*	1.968	18.12	9.85	56.00	37.88	QP	L	Pass
2**	1.968	12.58	9.85	46.00	33.42	AV	L	Pass
3	3.966	29.95	9.82	56.00	26.05	Peak	L	Pass
3*	3.966	20.64	9.82	56.00	35.36	QP	L	Pass
3**	3.966	14.69	9.82	46.00	31.31	AV	L	Pass
4	4.692	32.09	9.82	56.00	23.91	Peak	L	Pass
4*	4.692	22.11	9.82	56.00	33.89	QP	L	Pass
4**	4.692	12.78	9.82	46.00	33.22	AV	L	Pass
5	10.714	40.72	9.67	60.00	19.28	Peak	L	Pass
5*	10.714	32.56	9.67	60.00	27.44	QP	L	Pass
5**	10.714	27.03	9.67	50.00	22.97	AV	L	Pass
6	15.452	36.87	9.51	60.00	23.13	Peak	L	Pass
6*	15.452	29.10	9.51	60.00	30.90	QP	L	Pass
6**	15.452	21.50	9.51	50.00	28.50	AV	L	Pass

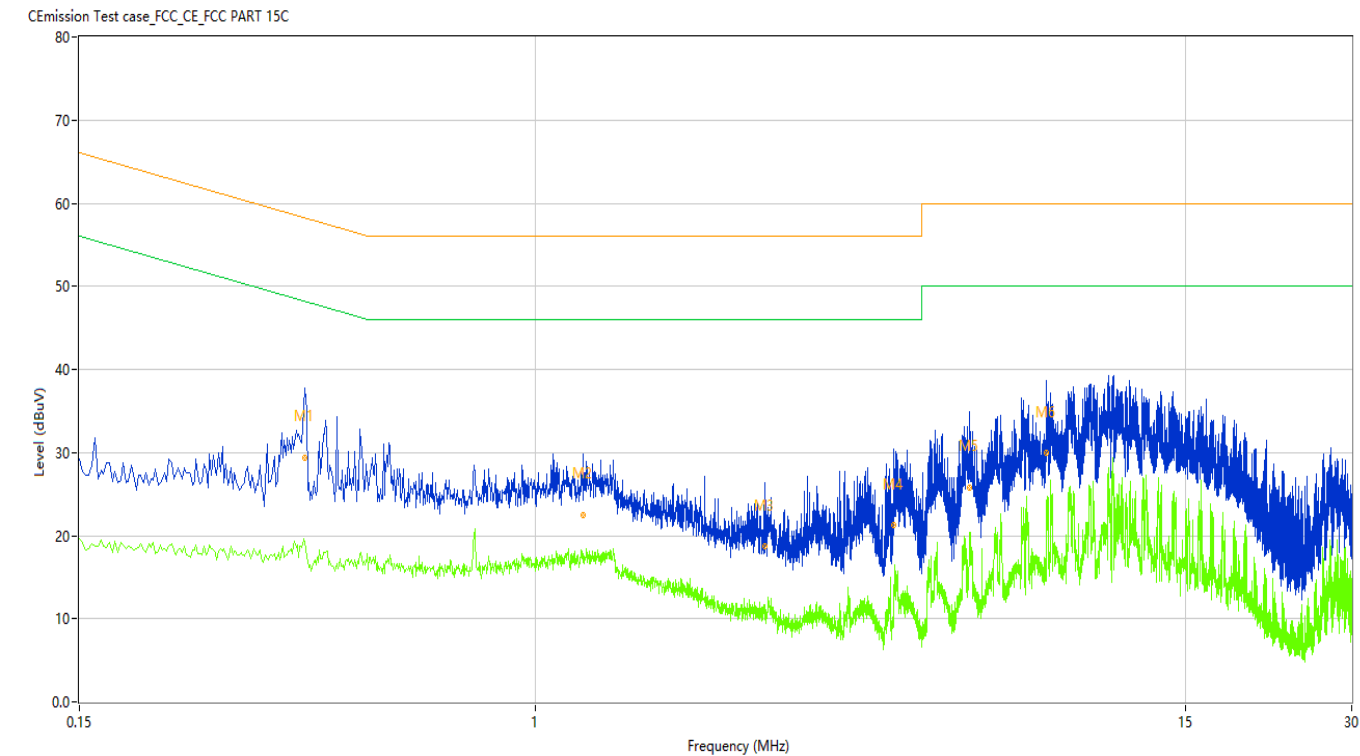
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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.384	40.69	10.06	58.19	17.50	Peak	N	Pass
1*	0.384	29.29	10.06	58.19	28.90	QP	N	Pass
1**	0.384	19.32	10.06	48.19	28.87	AV	N	Pass
2	1.224	31.24	9.95	56.00	24.76	Peak	N	Pass
2*	1.224	22.52	9.95	56.00	33.48	QP	N	Pass
2**	1.224	17.78	9.95	46.00	28.22	AV	N	Pass
3	2.602	27.10	9.92	56.00	28.90	Peak	N	Pass
3*	2.602	18.71	9.92	56.00	37.29	QP	N	Pass
3**	2.602	11.68	9.92	46.00	34.32	AV	N	Pass
4	4.456	31.97	9.81	56.00	24.03	Peak	N	Pass
4*	4.456	21.32	9.81	56.00	34.68	QP	N	Pass
4**	4.456	13.86	9.81	46.00	32.14	AV	N	Pass
5	6.112	35.22	9.79	60.00	24.78	Peak	N	Pass
5*	6.112	25.73	9.79	60.00	34.27	QP	N	Pass
5**	6.112	20.40	9.79	50.00	29.60	AV	N	Pass
6	8.404	38.44	9.80	60.00	21.56	Peak	N	Pass
6*	8.404	30.00	9.80	60.00	30.00	QP	N	Pass
6**	8.404	24.24	9.80	50.00	25.76	AV	N	Pass

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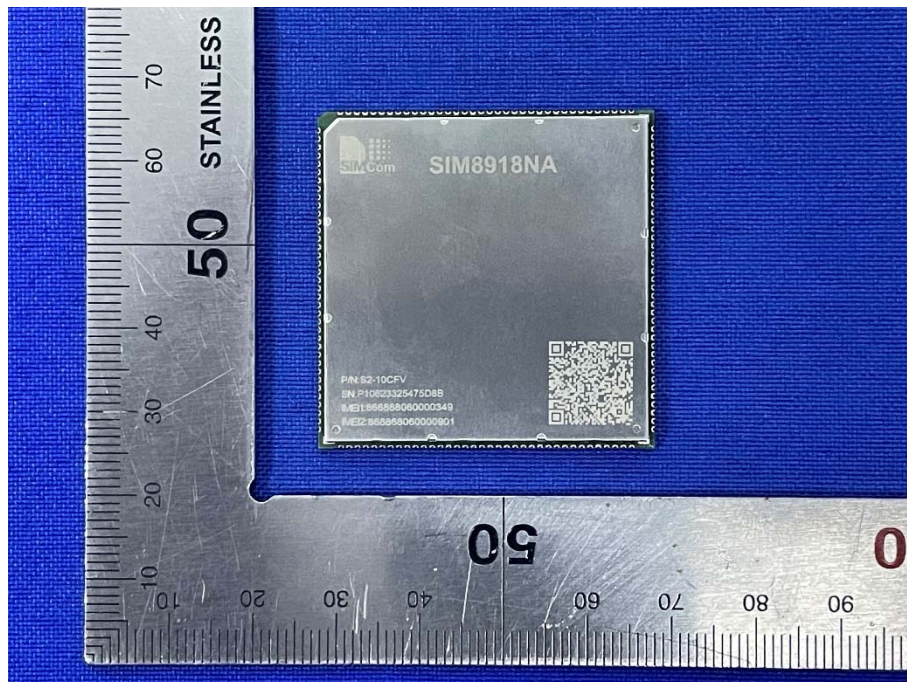
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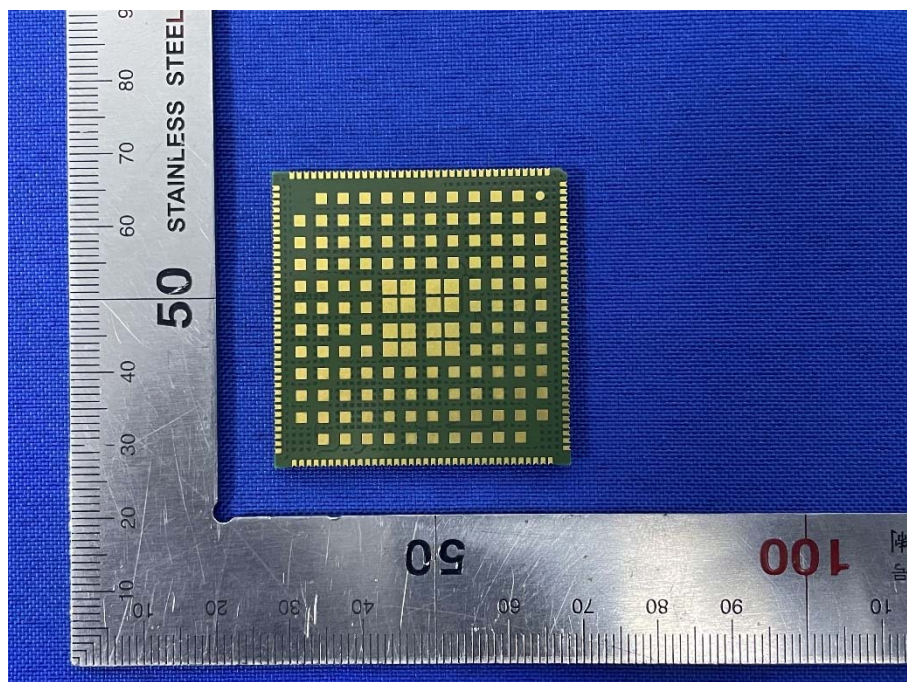
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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



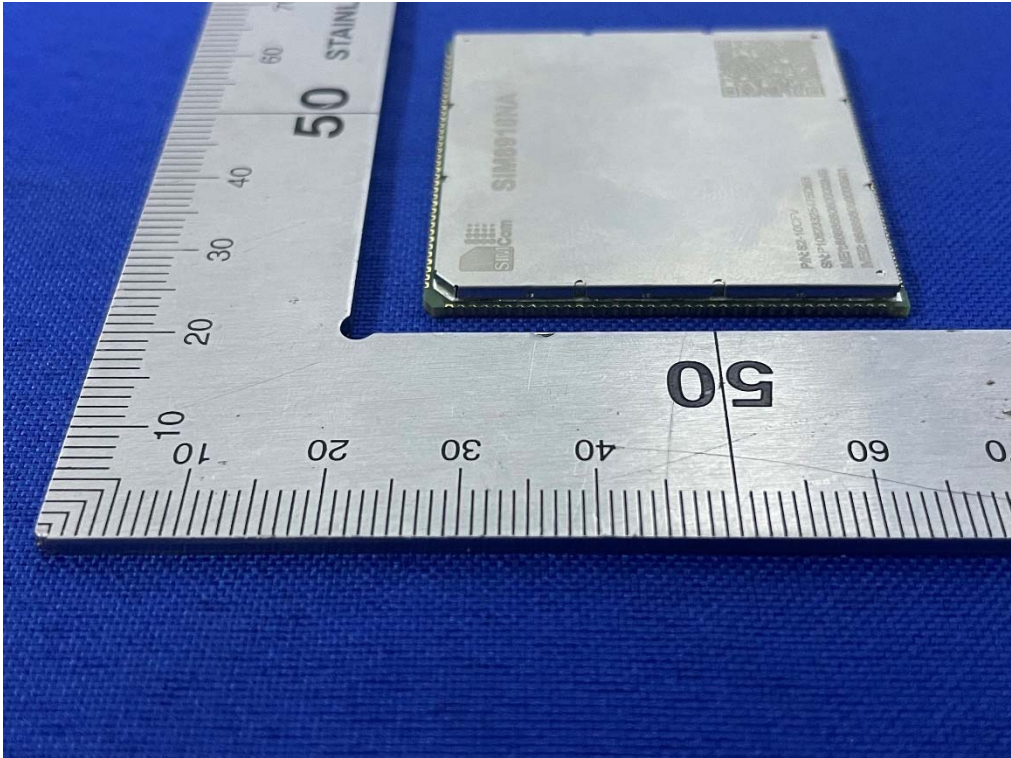
Rear of the sample

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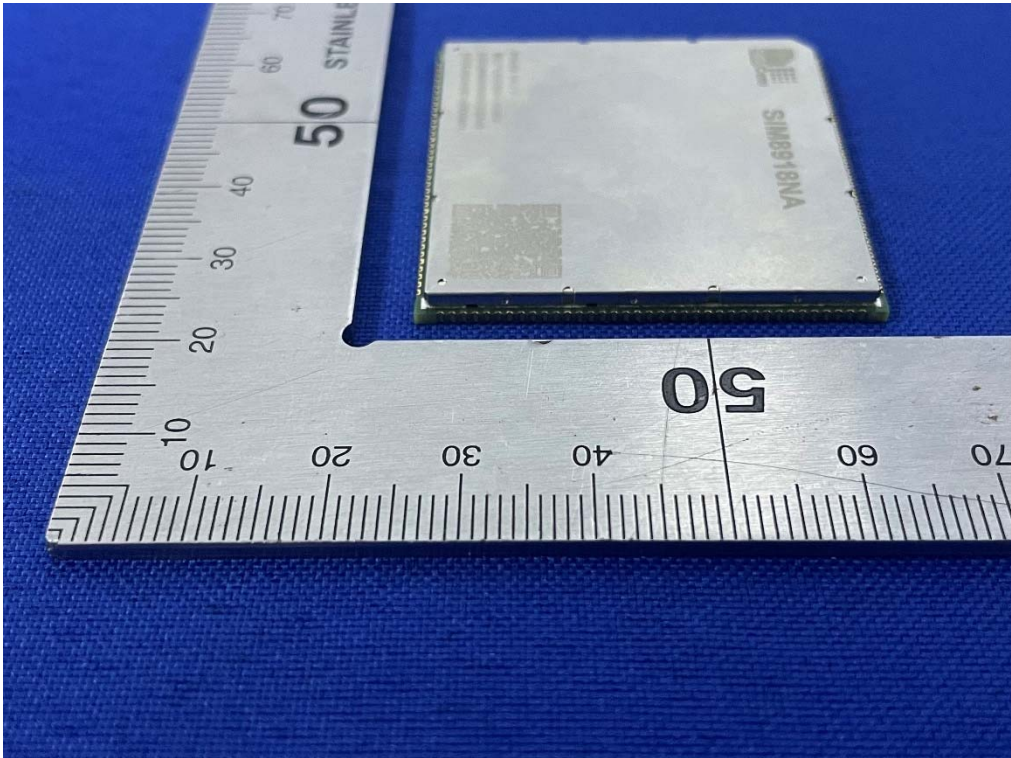
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Left of the sample



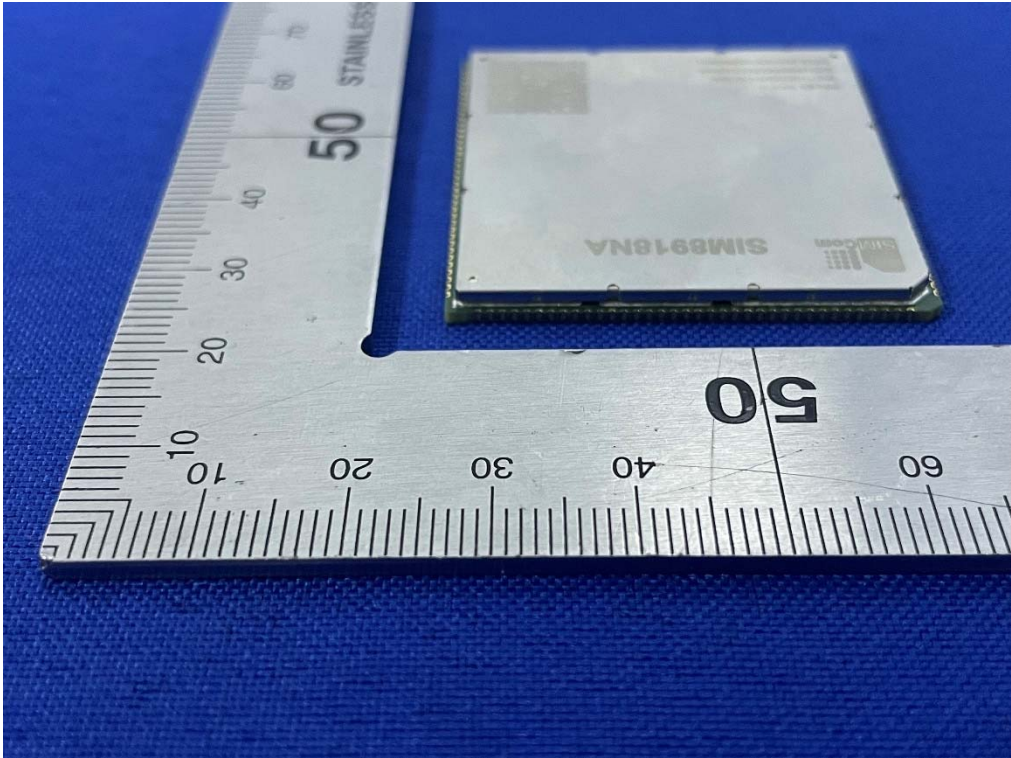
Right of the sample

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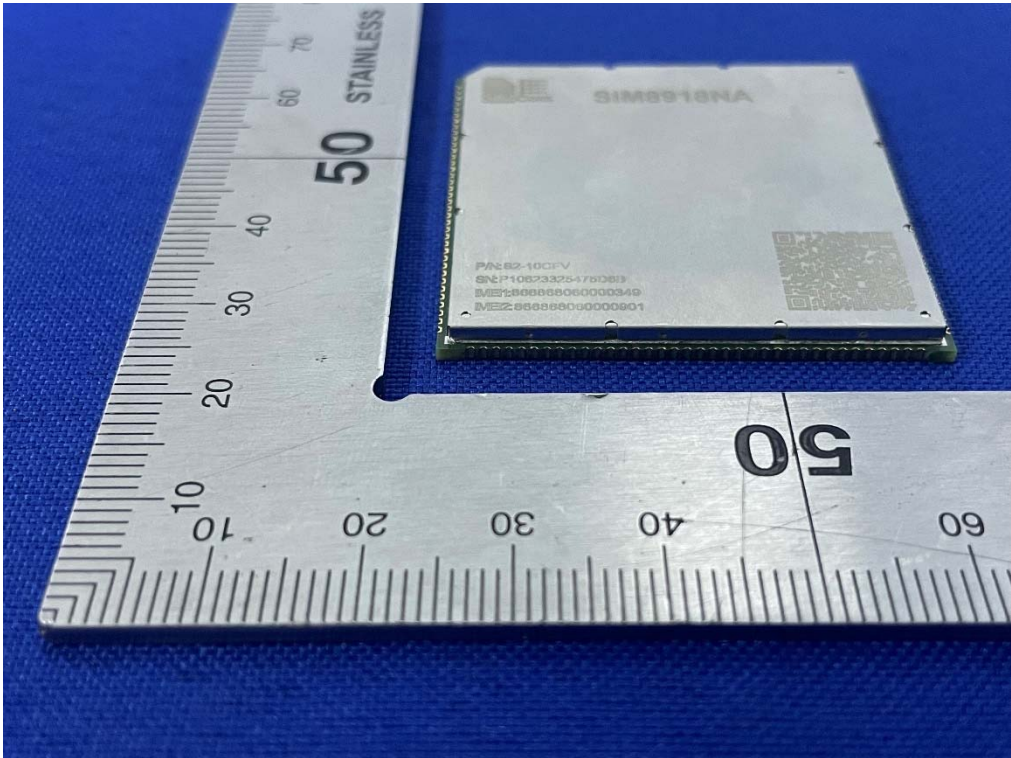
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Top of the sample



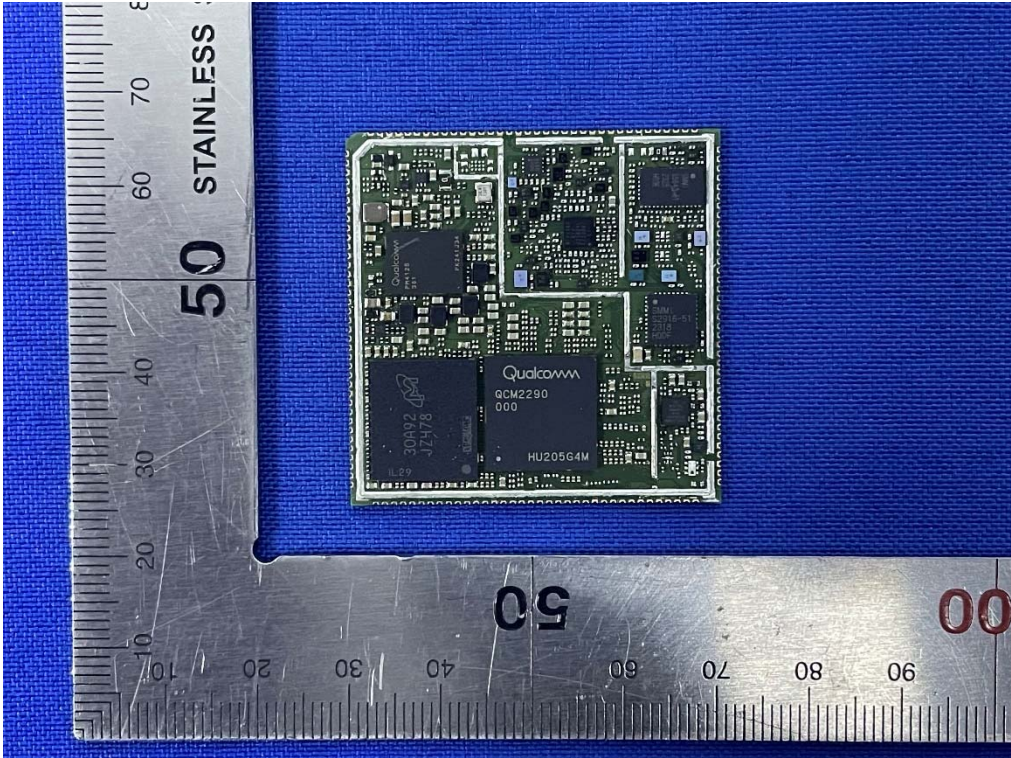
Bottom of the sample

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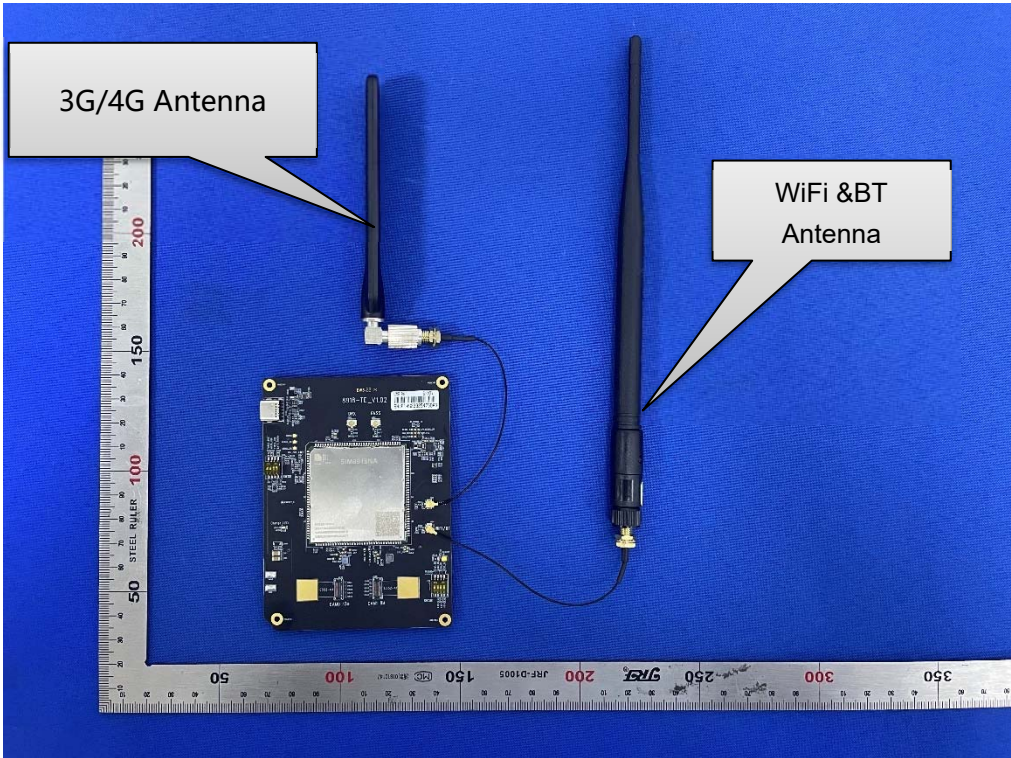
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Internal-1 of the sample



Antenna Photo

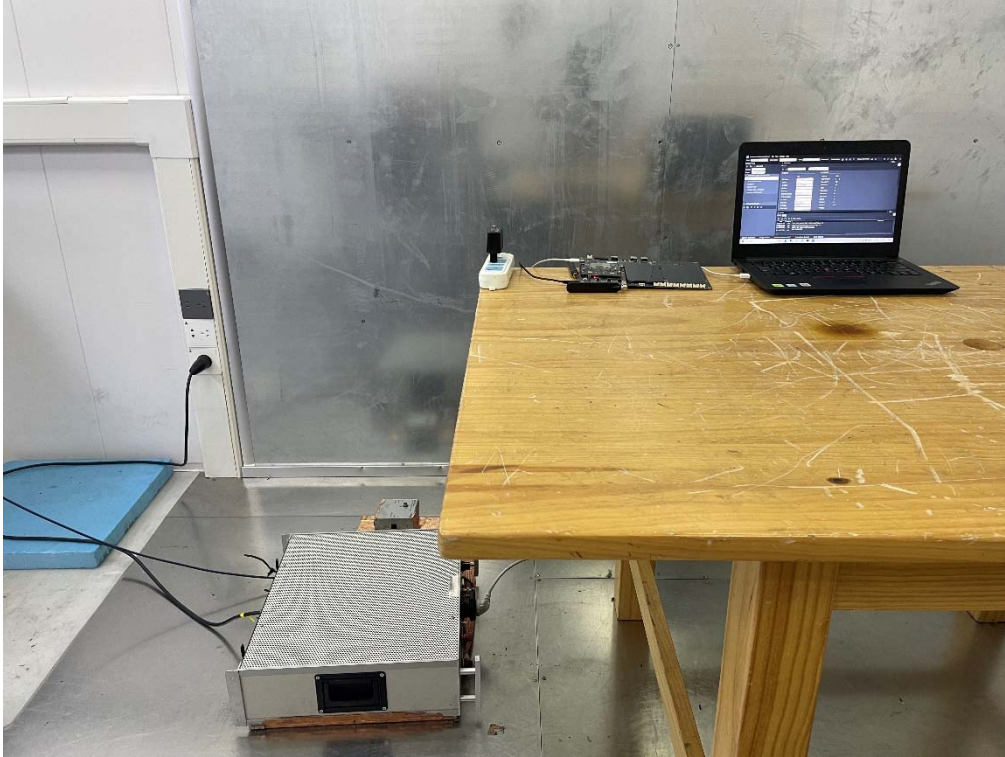
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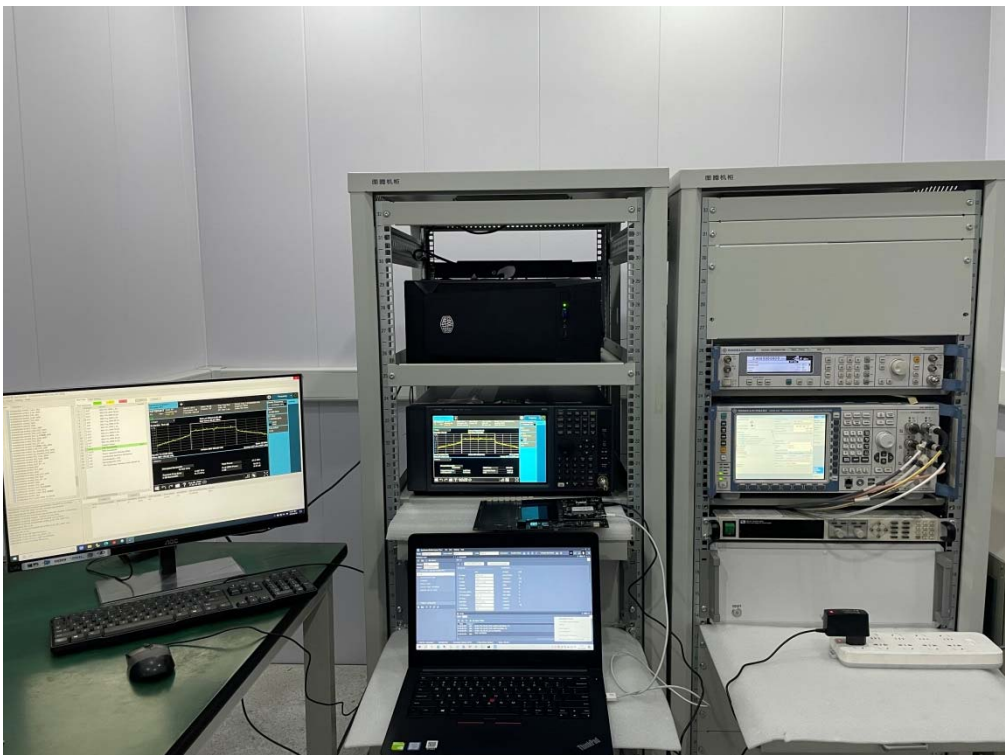
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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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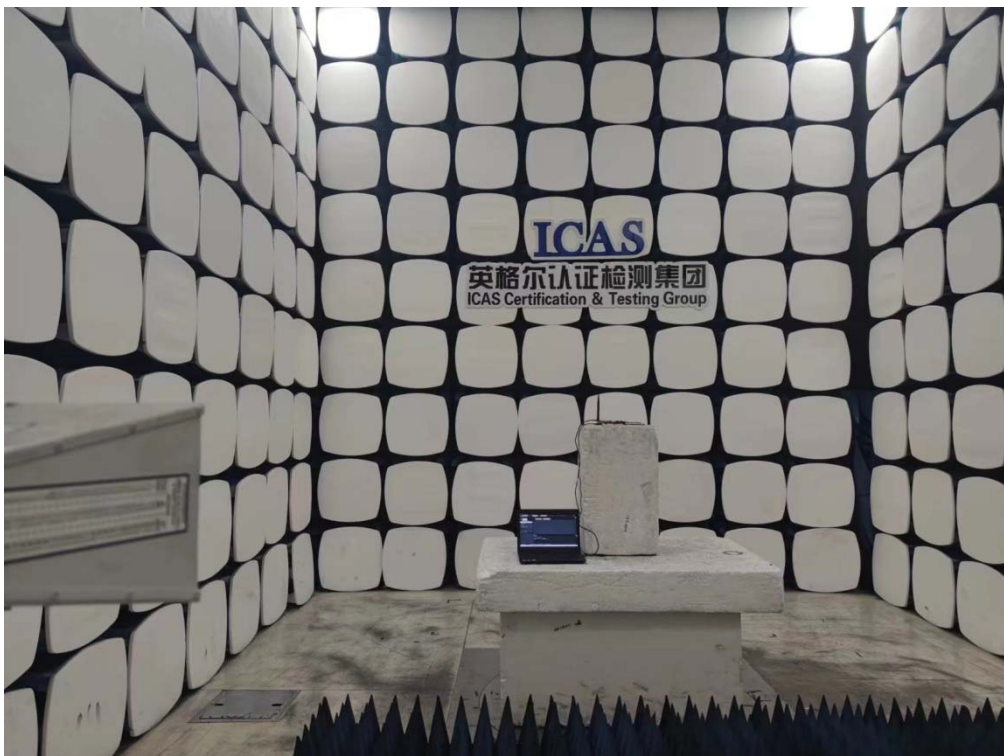
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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report