

# TEST REPORT

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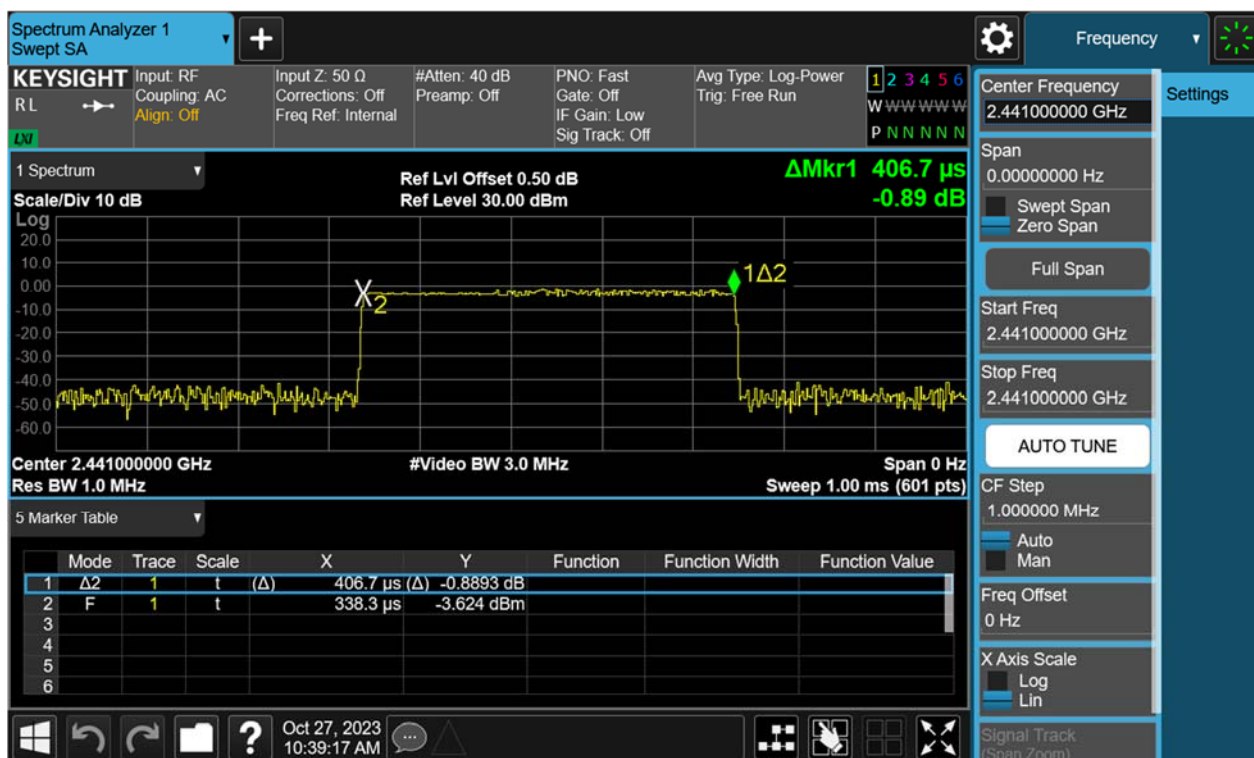
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Figure 39: Time of Occupancy, 2441MHz, GFSK DH5



Figure 40: Time of Occupancy, 2441MHz,  $\pi/4$ -DQPSK DH1



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Figure 41: Time of Occupancy, 2441MHz,  $\pi/4$ -DQPSK DH3

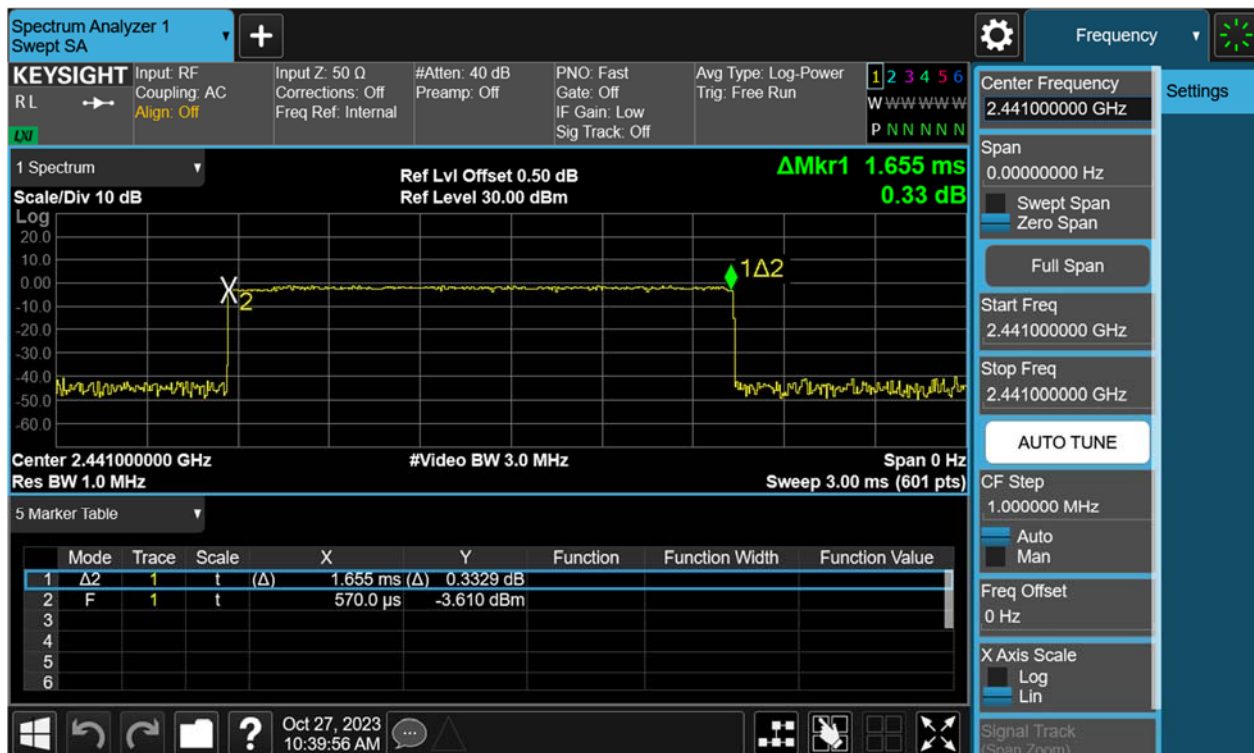


Figure 42: Time of Occupancy, 2441MHz,  $\pi/4$ -DQPSK DH5



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Figure 43: Time of Occupancy, 2441MHz, 8-DPSK DH1

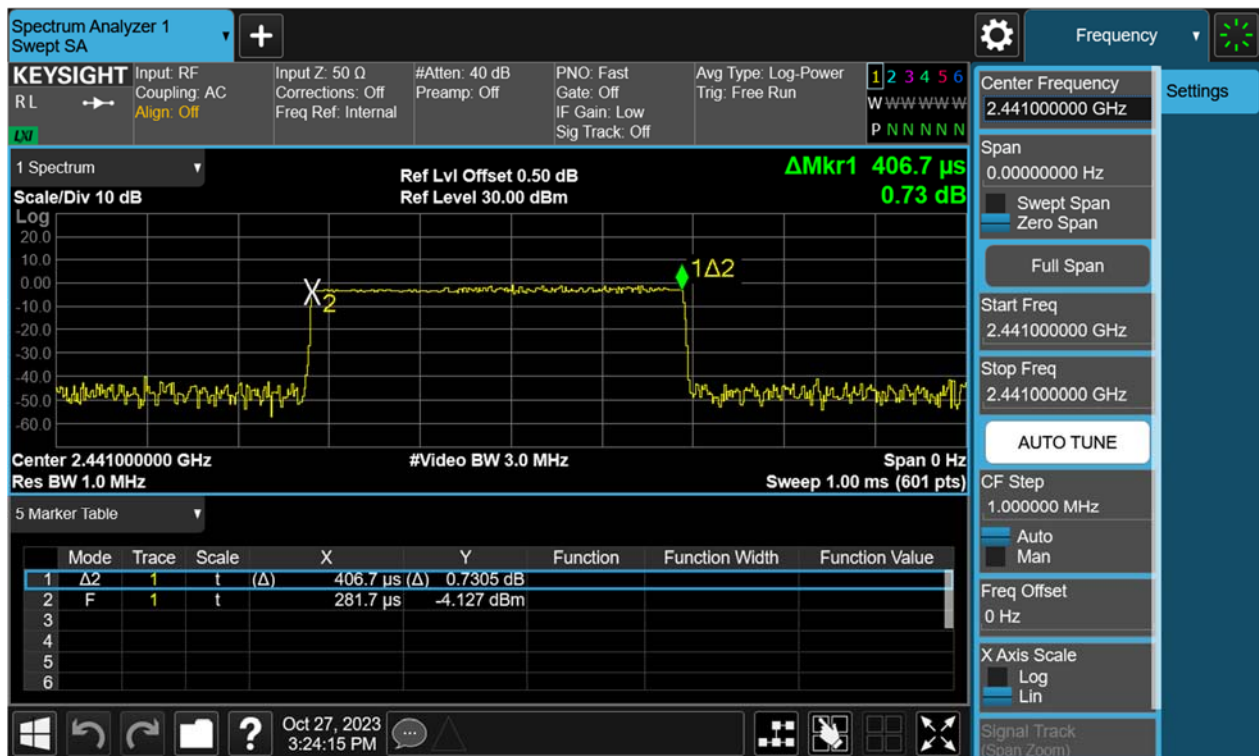
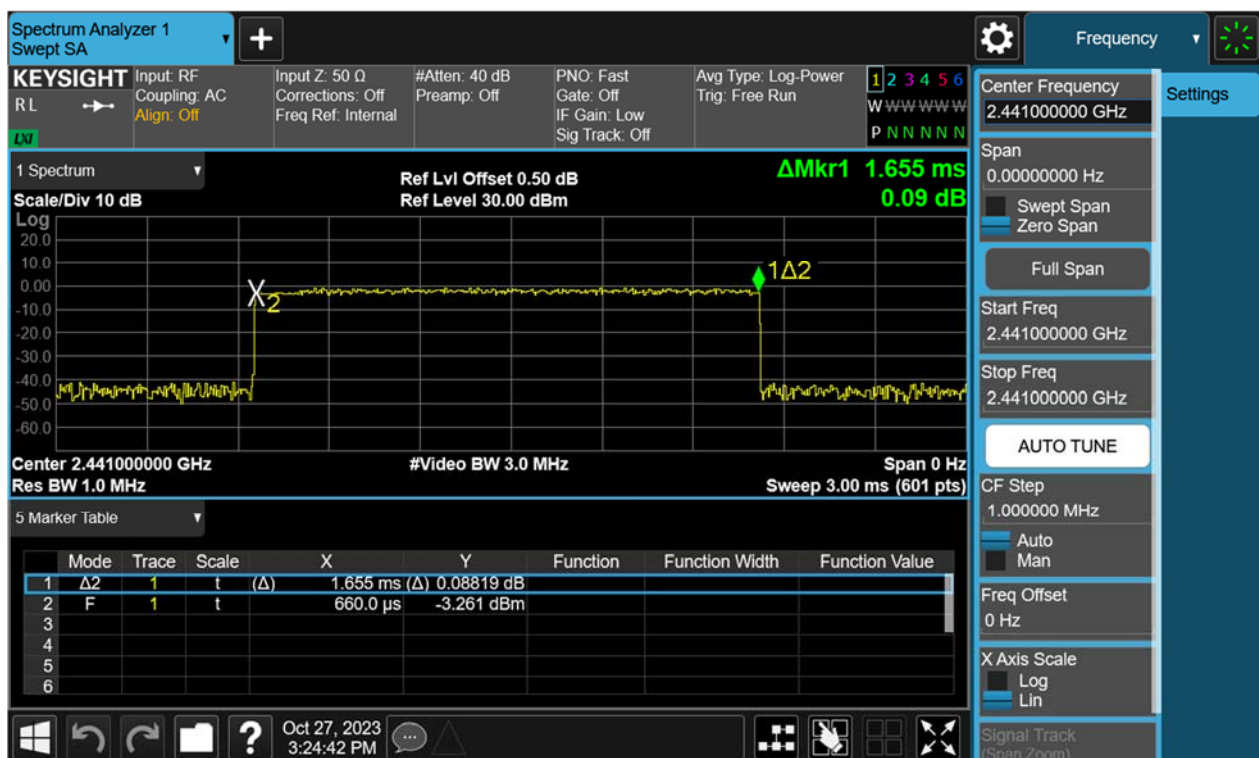


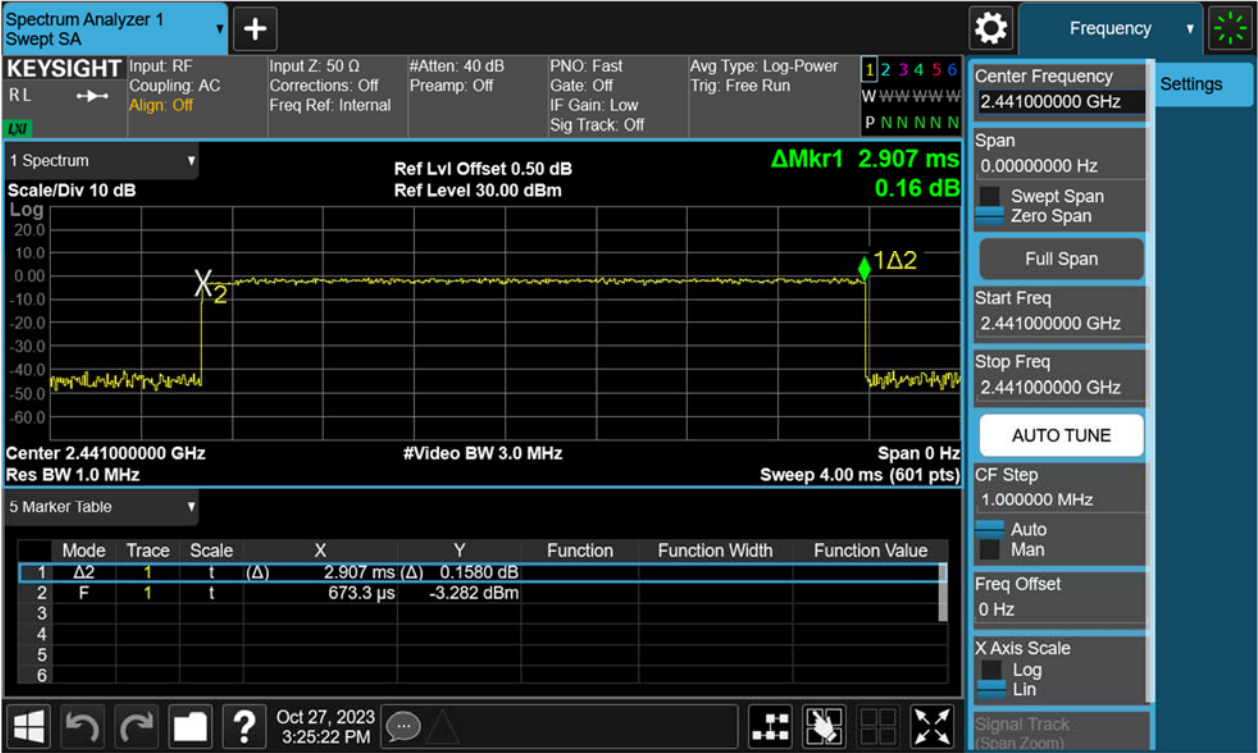
Figure 44: Time of Occupancy, 2441MHz, 8-DPSK DH3



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Figure 45: Time of Occupancy, 2441MHz, 8-DPSK DH5



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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	: Connected to GND
Ambient temperature	: 26°C
Relative humidity	: 49%

For details refer to following test plot.

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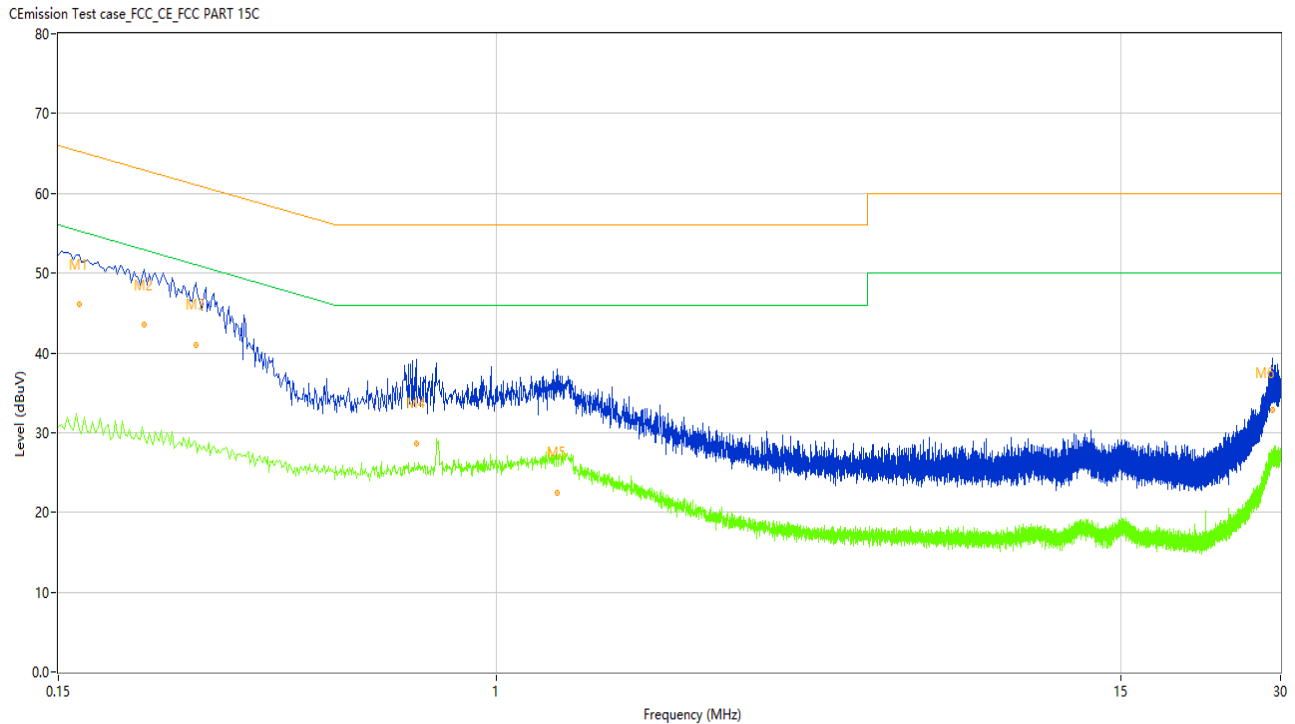
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*Note: The all configurations were tested respectively, Only the worst mode data of 8DPSK-hopping-DH5 was recorded in the test report.*

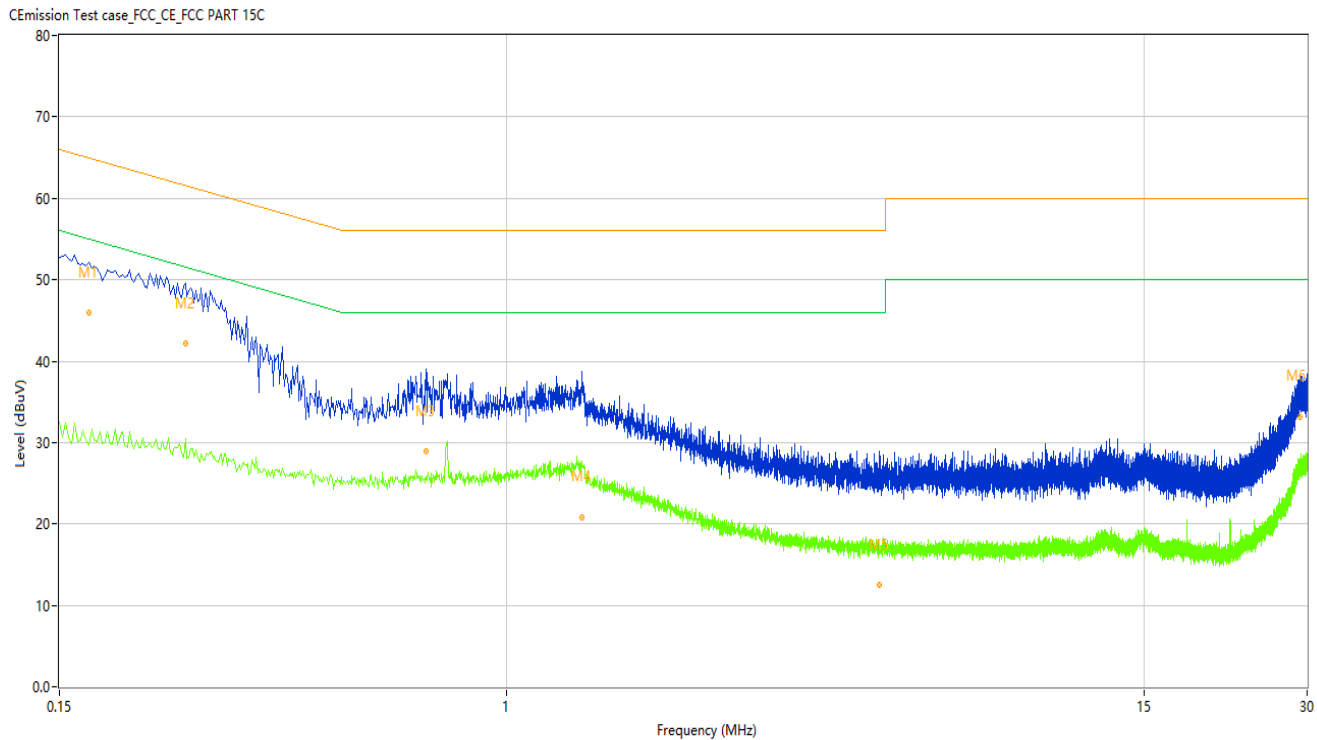
**Figure 46: Conducted Emission on AC Mains, L Phase**



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	52.45	9.94	65.26	12.81	Peak	L	Pass
1*	0.164	46.18	9.94	65.26	19.08	QP	L	Pass
1**	0.164	30.34	9.94	55.26	24.92	AV	L	Pass
2	0.218	50.26	9.96	62.89	12.63	Peak	L	Pass
2*	0.218	43.49	9.96	62.89	19.40	QP	L	Pass
2**	0.218	29.34	9.96	52.89	23.55	AV	L	Pass
3	0.272	48.46	9.97	61.06	12.60	Peak	L	Pass
3*	0.272	40.97	9.97	61.06	20.09	QP	L	Pass
3**	0.272	28.75	9.97	51.06	22.31	AV	L	Pass
4	0.708	37.94	9.95	56.00	18.06	Peak	L	Pass
4*	0.708	28.66	9.95	56.00	27.34	QP	L	Pass
4**	0.708	25.65	9.95	46.00	20.35	AV	L	Pass
5	1.306	29.93	9.84	56.00	26.07	Peak	L	Pass
5*	1.306	22.48	9.84	56.00	33.52	QP	L	Pass
5**	1.306	27.04	9.84	46.00	18.96	AV	L	Pass
6	29.038	39.30	8.96	60.00	20.70	Peak	L	Pass
6*	29.038	32.77	8.96	60.00	27.23	QP	L	Pass
6**	29.038	27.73	8.96	50.00	22.27	AV	L	Pass

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Figure 47: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	52.10	10.03	64.96	12.86	Peak	N	Pass
1*	0.170	45.94	10.03	64.96	19.02	QP	N	Pass
1**	0.170	29.75	10.03	54.96	25.21	AV	N	Pass
2	0.256	49.26	10.06	61.56	12.30	Peak	N	Pass
2*	0.256	42.21	10.06	61.56	19.35	QP	N	Pass
2**	0.256	30.42	10.06	51.56	21.14	AV	N	Pass
3	0.712	38.14	10.04	56.00	17.86	Peak	N	Pass
3*	0.712	28.91	10.04	56.00	27.09	QP	N	Pass
3**	0.712	25.84	10.04	46.00	20.16	AV	N	Pass
4	1.378	28.66	9.94	56.00	27.34	Peak	N	Pass
4*	1.378	20.76	9.94	56.00	35.24	QP	N	Pass
4**	1.378	26.97	9.94	46.00	19.03	AV	N	Pass
5	4.878	20.23	9.74	56.00	35.77	Peak	N	Pass
5*	4.878	12.50	9.74	56.00	43.50	QP	N	Pass
5**	4.878	17.32	9.74	46.00	28.68	AV	N	Pass
6	29.050	39.70	9.05	60.00	20.30	Peak	N	Pass
6*	29.050	33.22	9.05	60.00	26.78	QP	N	Pass
6**	29.050	27.54	9.05	50.00	22.46	AV	N	Pass

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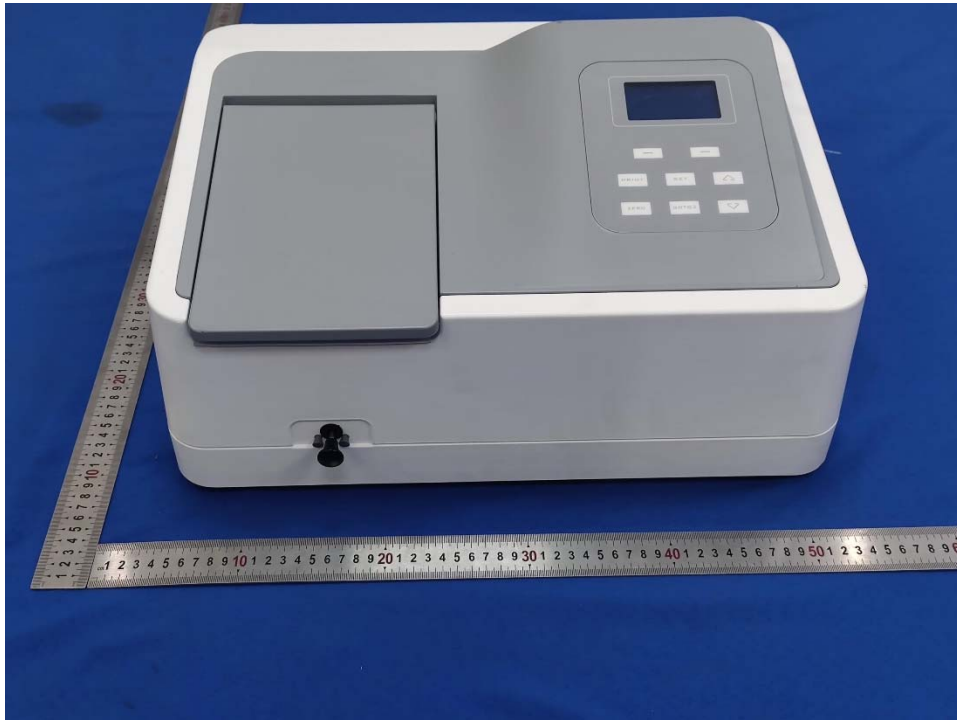
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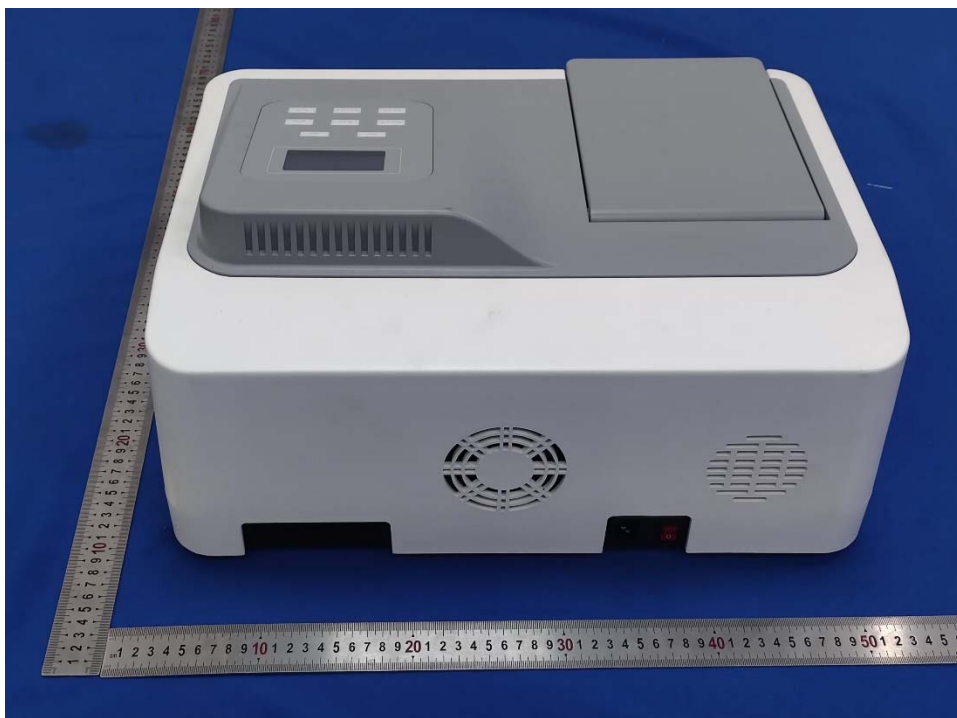
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## 5 Appendixes

### 5.1 Photographs of the Sample



Front of the sample

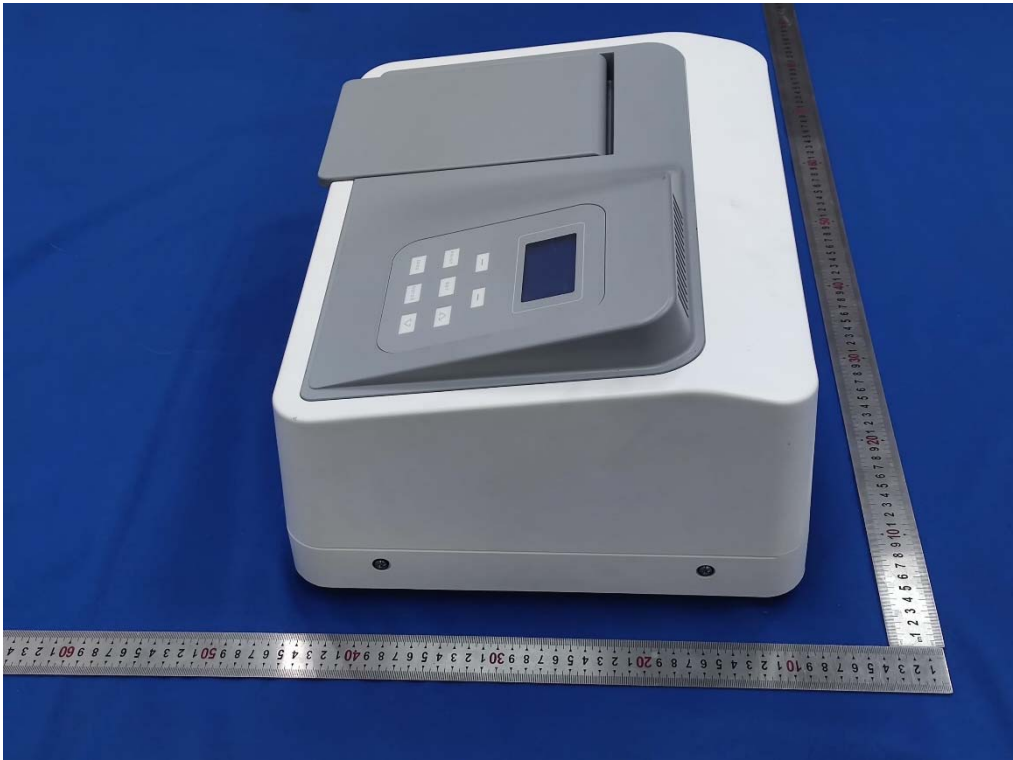


Rear of the sample

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Left of the sample



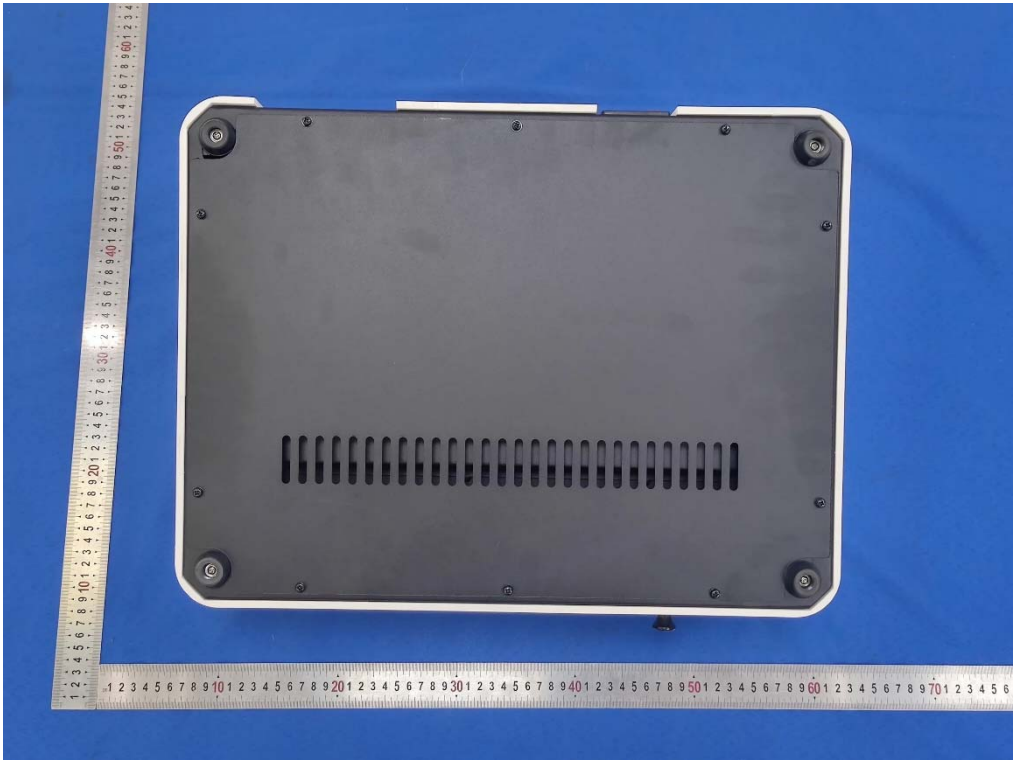
Right of the sample

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Top of the sample



Bottom of the sample

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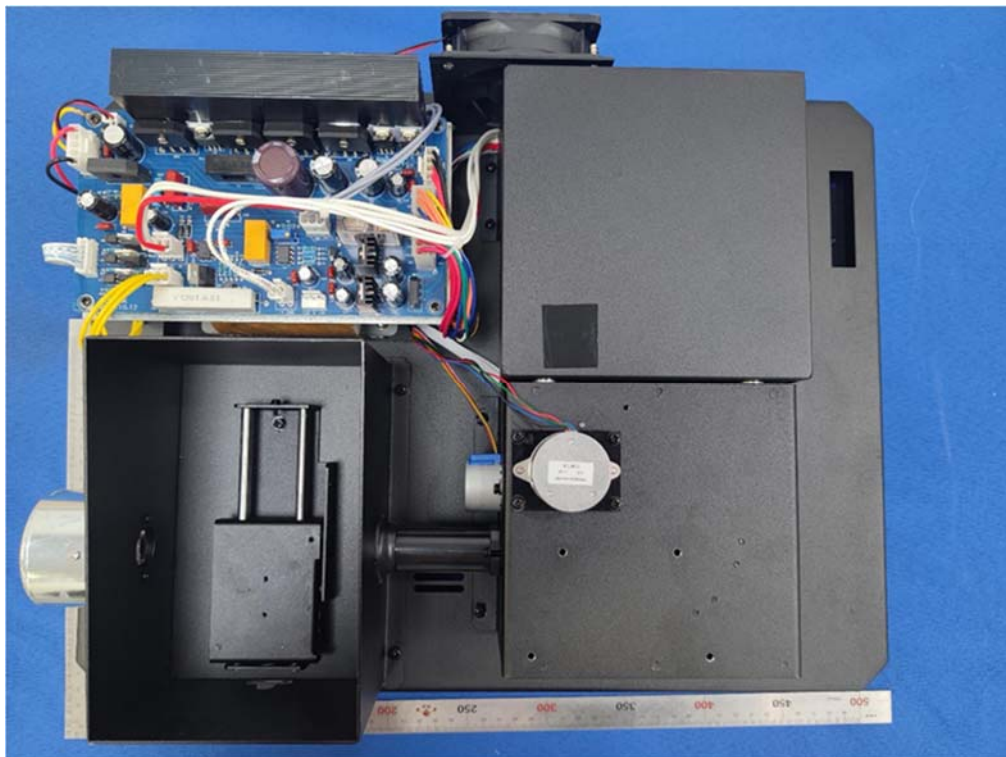
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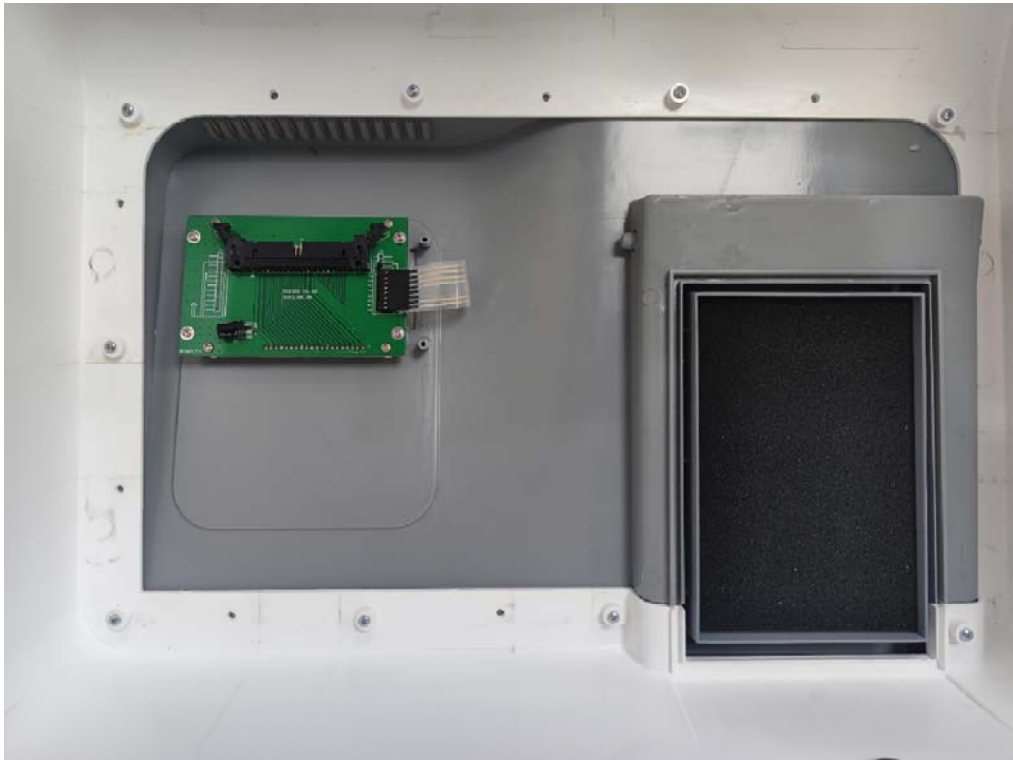
Open-1 of the sample



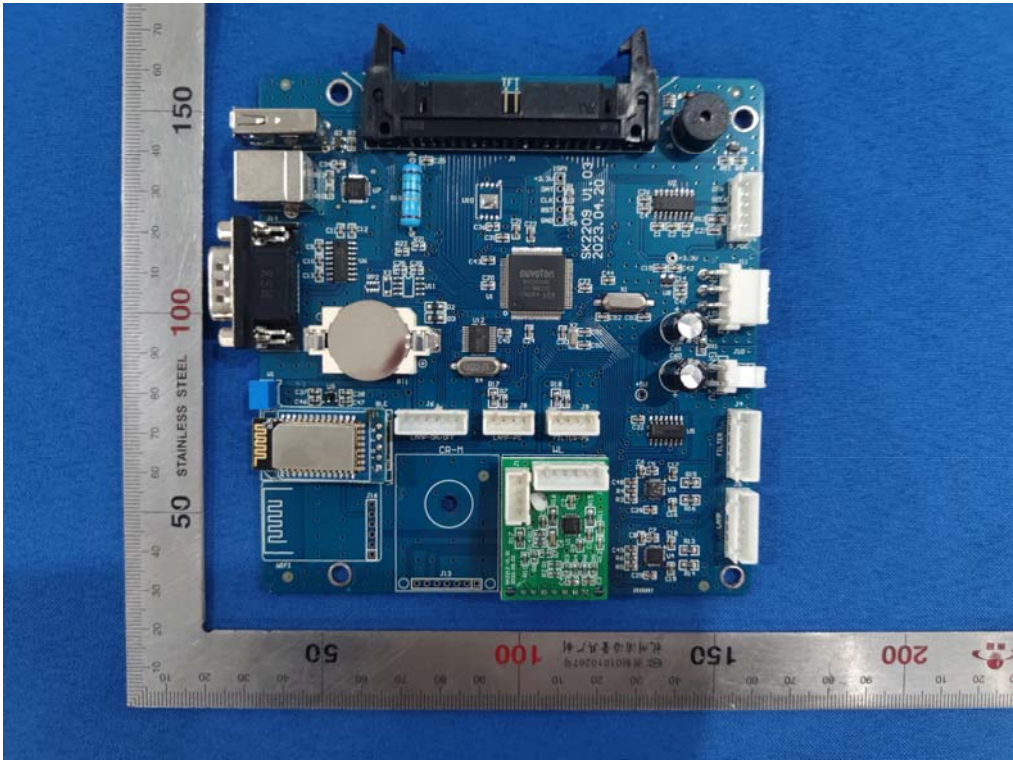
Open-2 of the sample

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Open-3 of the sample



Internal-1 of the sample

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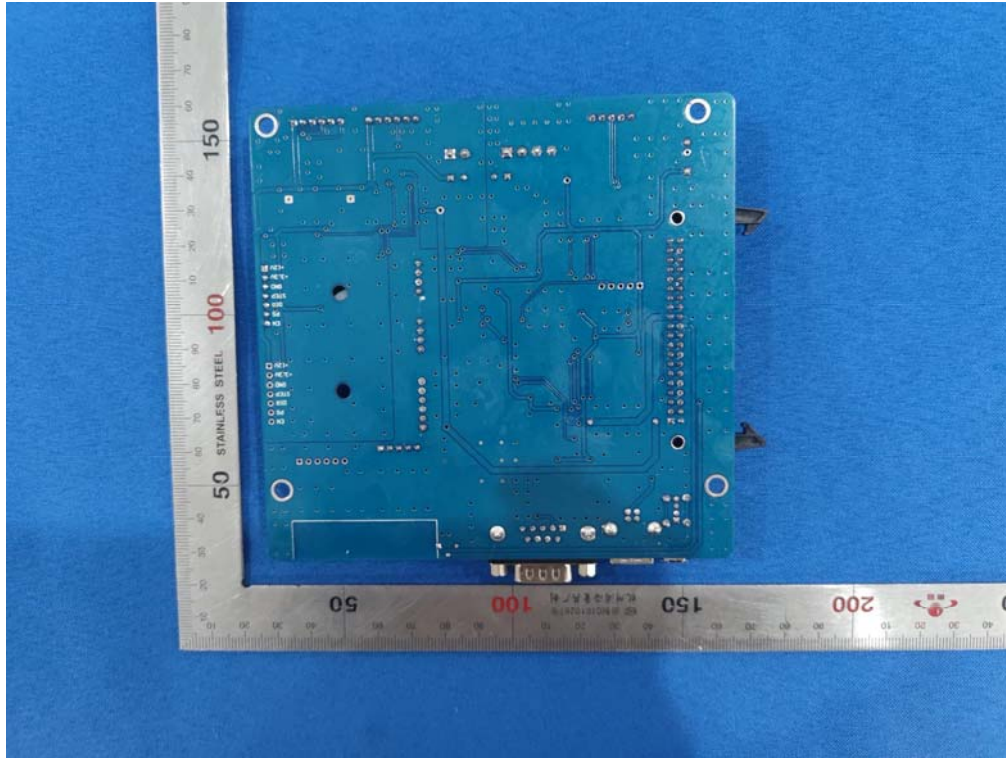
Report No.:

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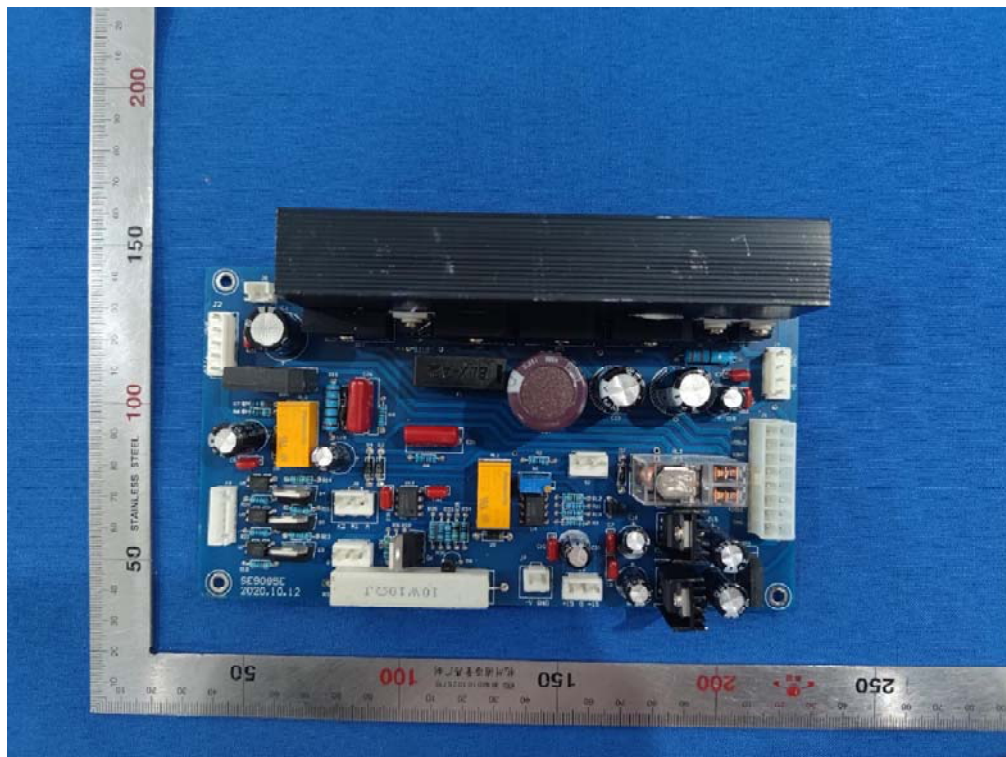
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Internal-2 of the sample



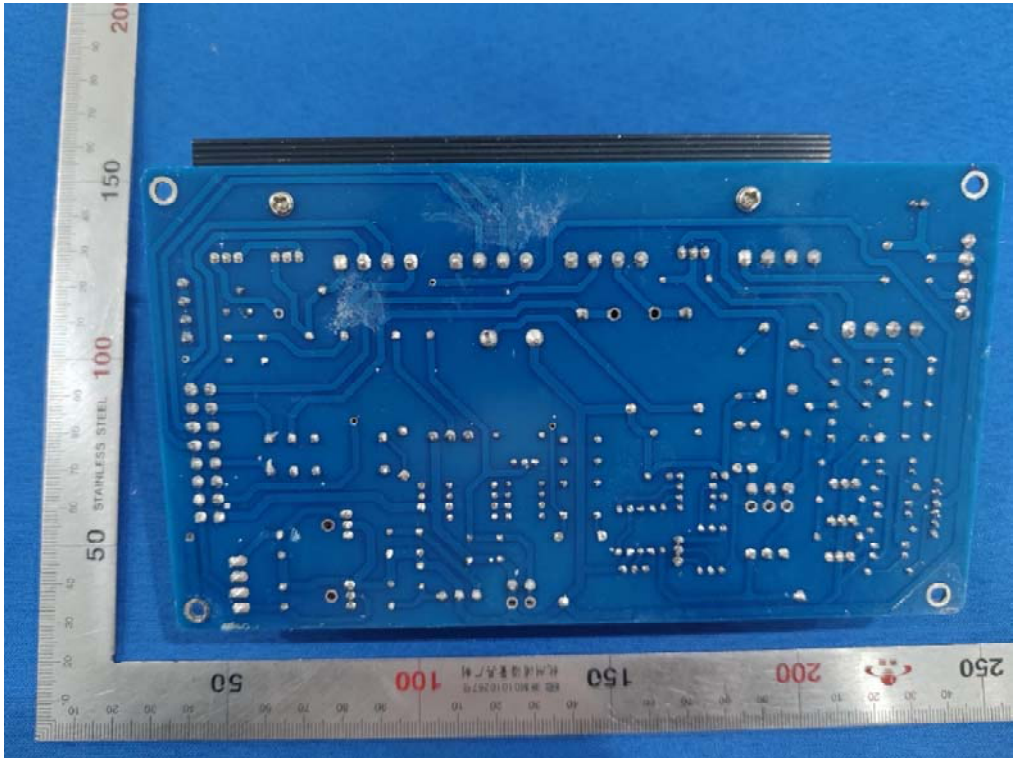
Internal-3 of the sample

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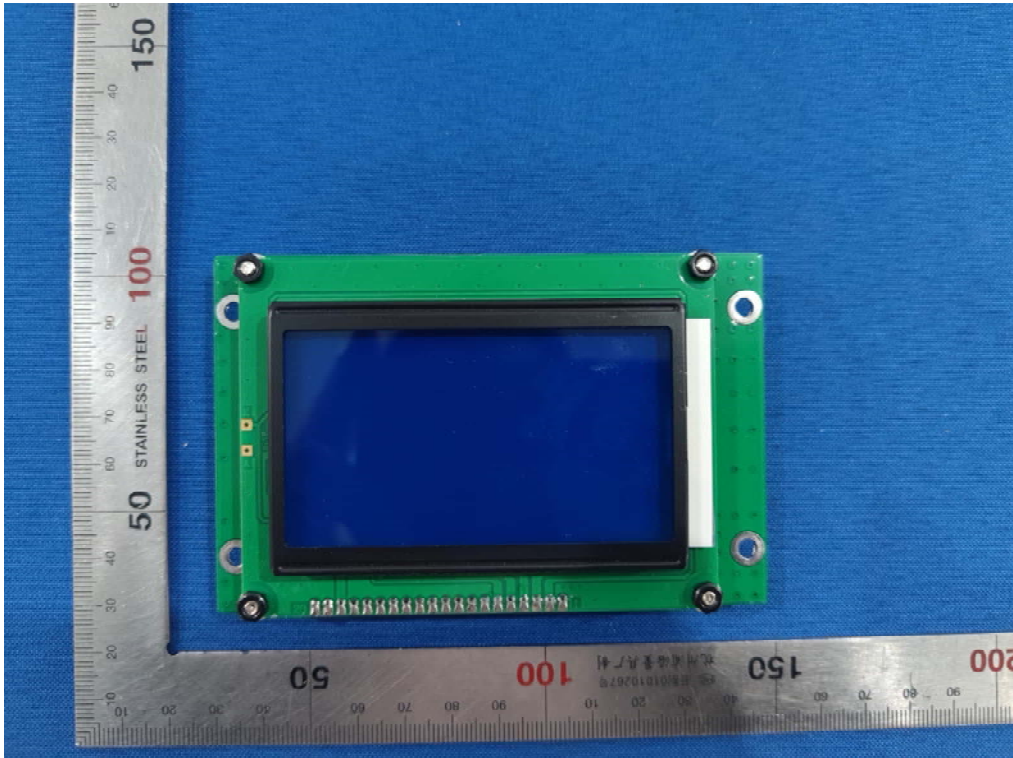
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Internal-4 of the sample



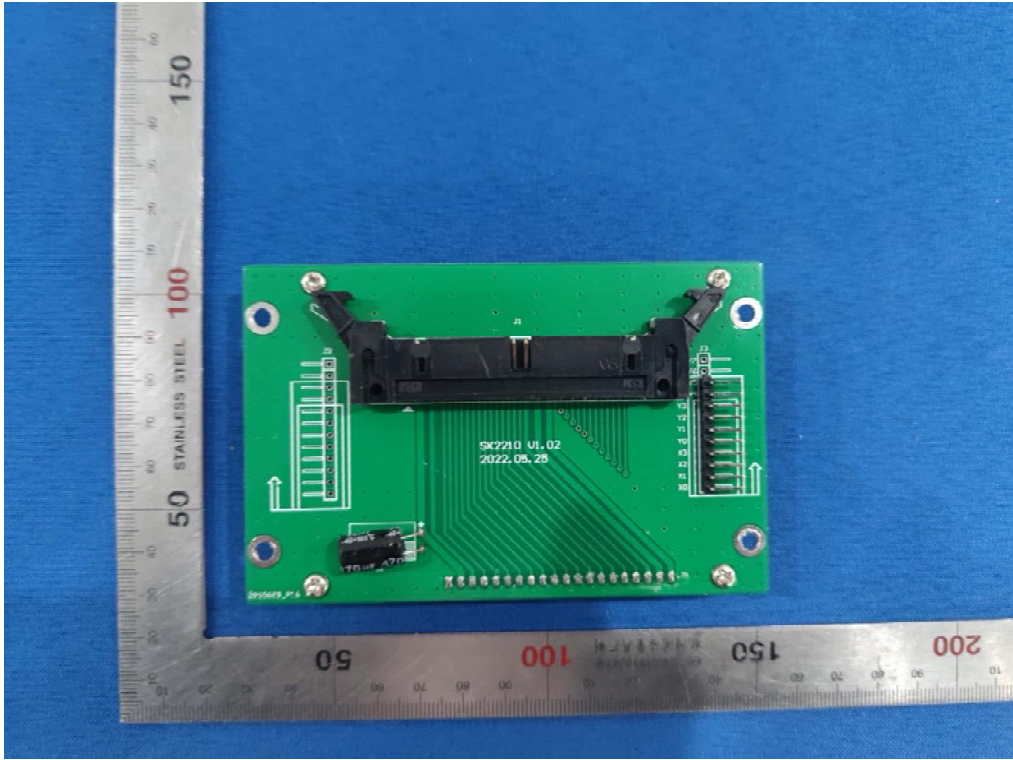
Internal-5 of the sample

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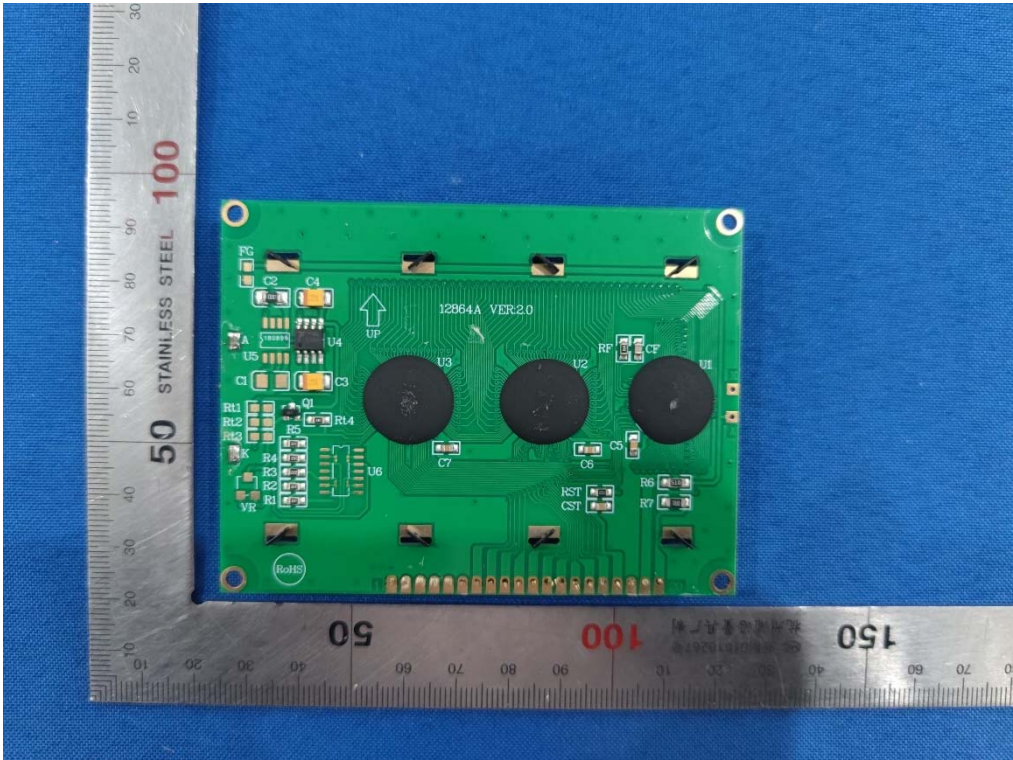
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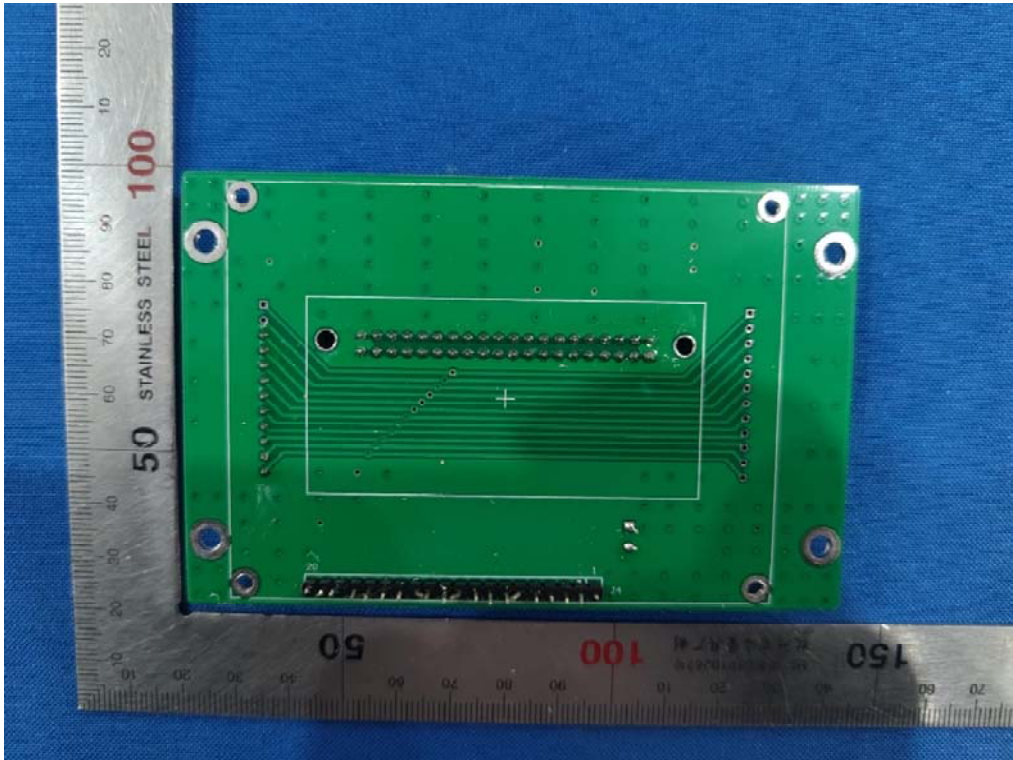
Internal-6 of the sample



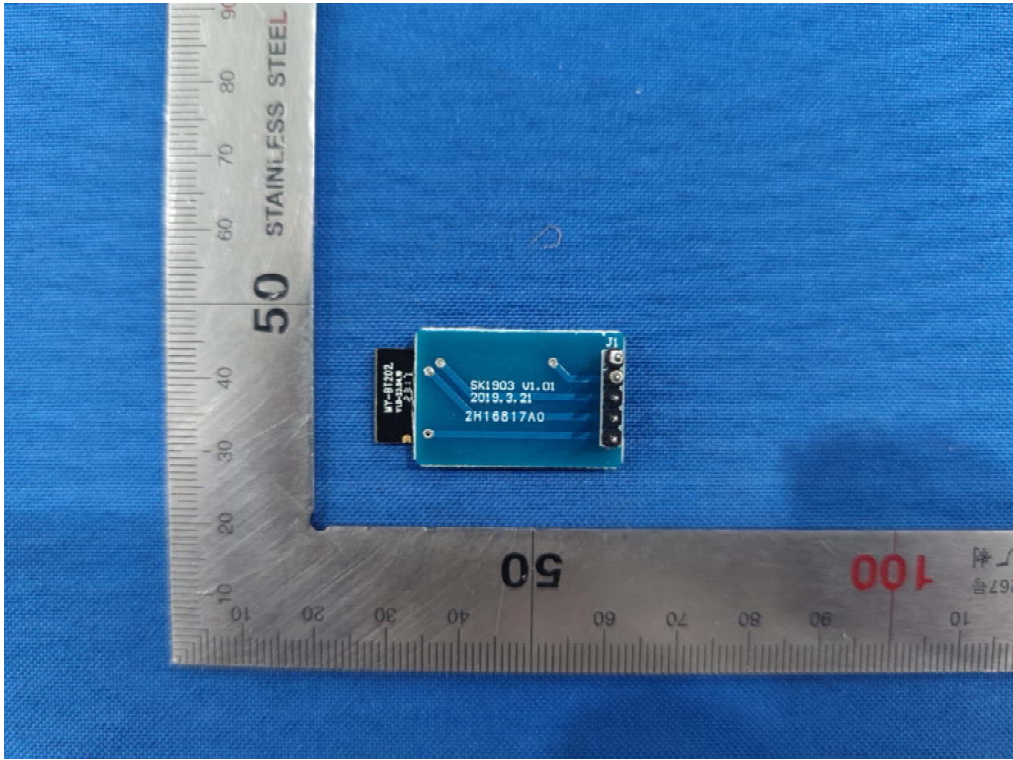
Internal-7 of the sample

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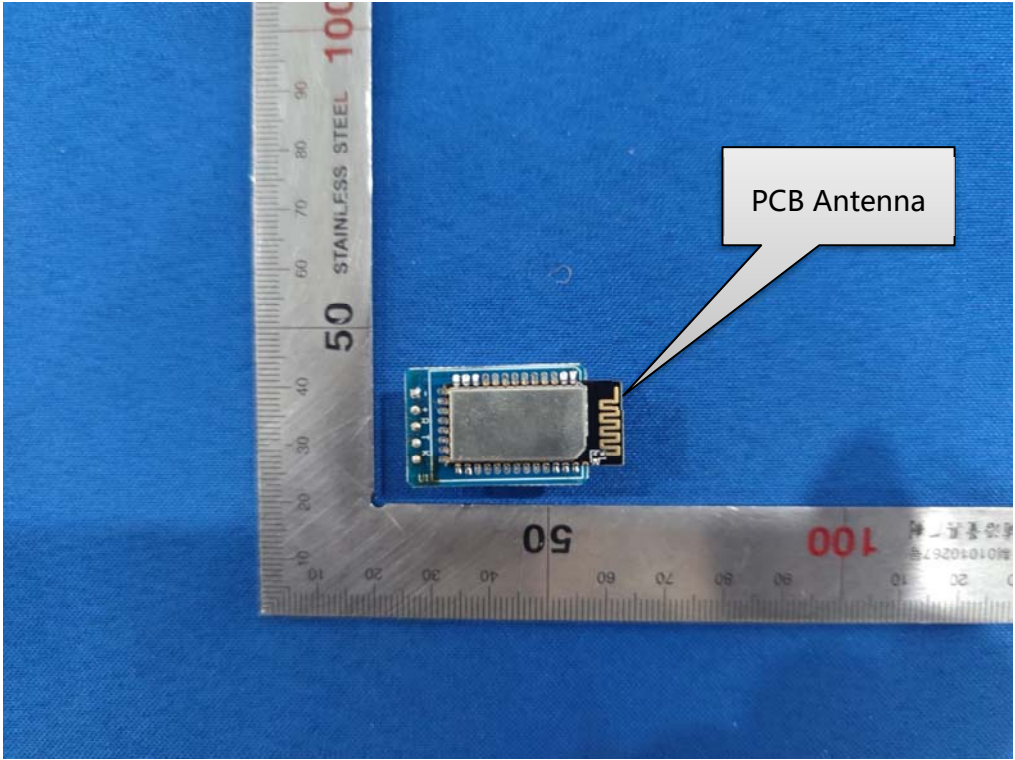


Internal-8 of the sample

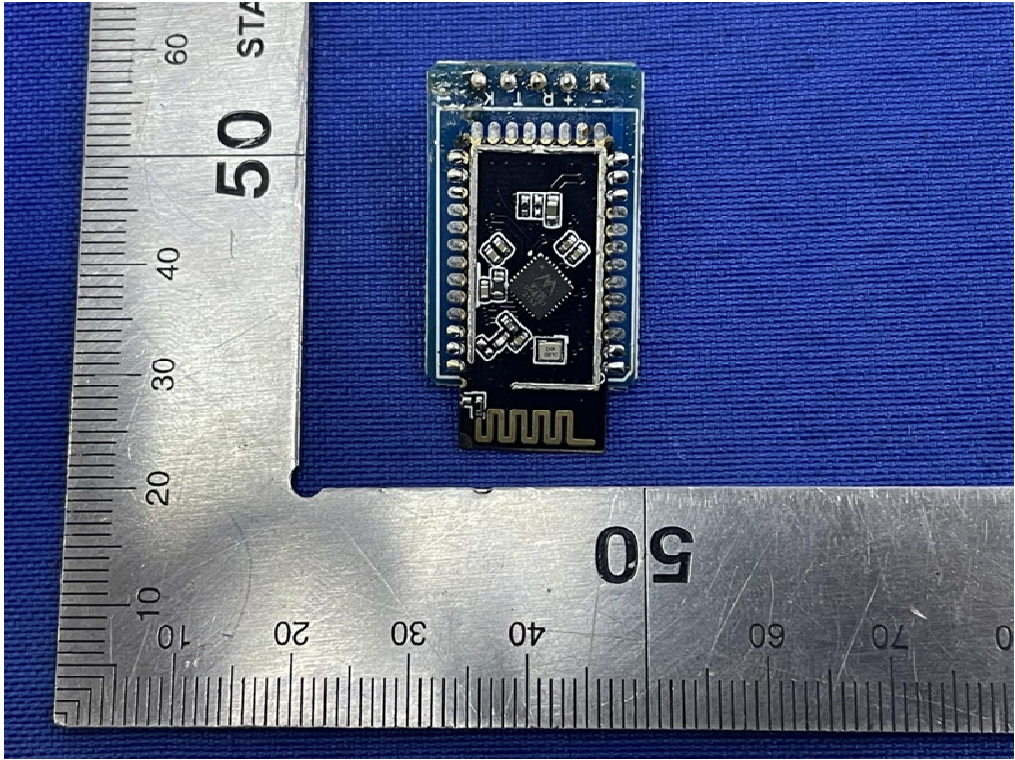


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Internal-10 of the sample



Internal-11 of the sample

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## 5.2 Set-up for Conducted Emission on AC Mains



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



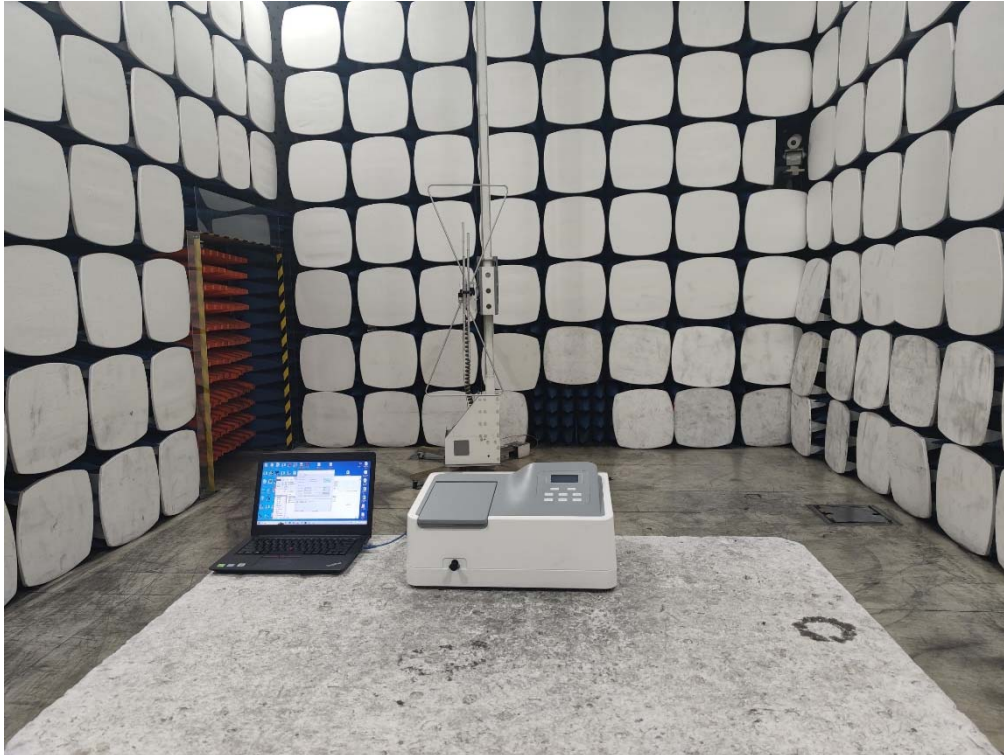
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## 5.4 Set-up for Radiated Spurious Emissions below 1GHz



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



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