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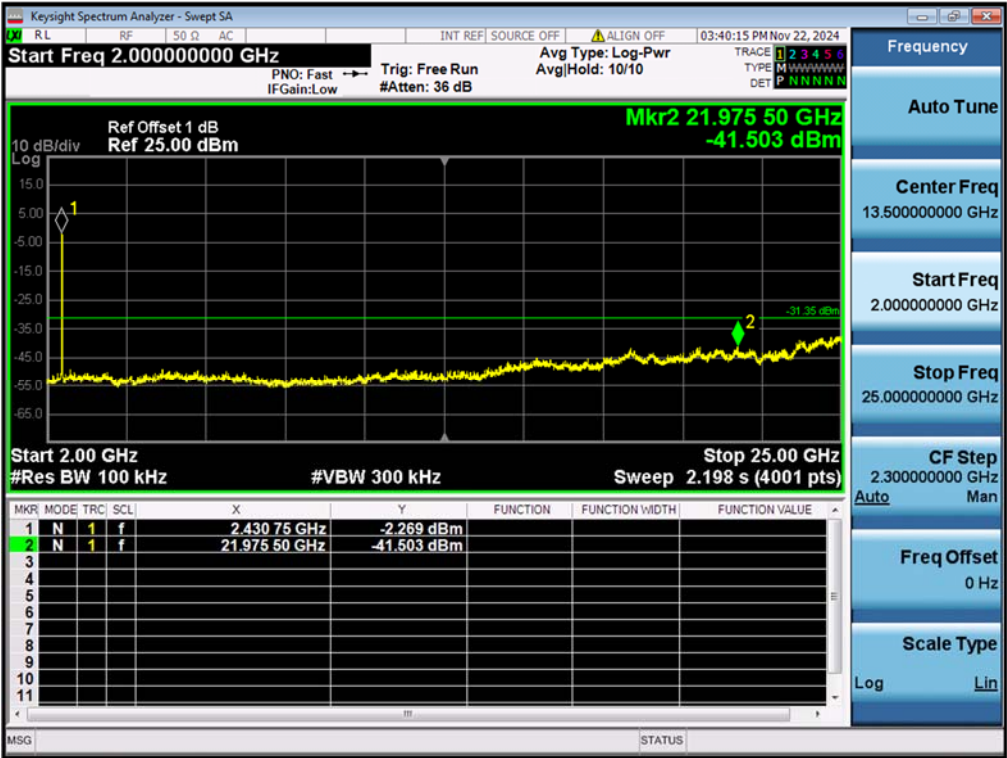
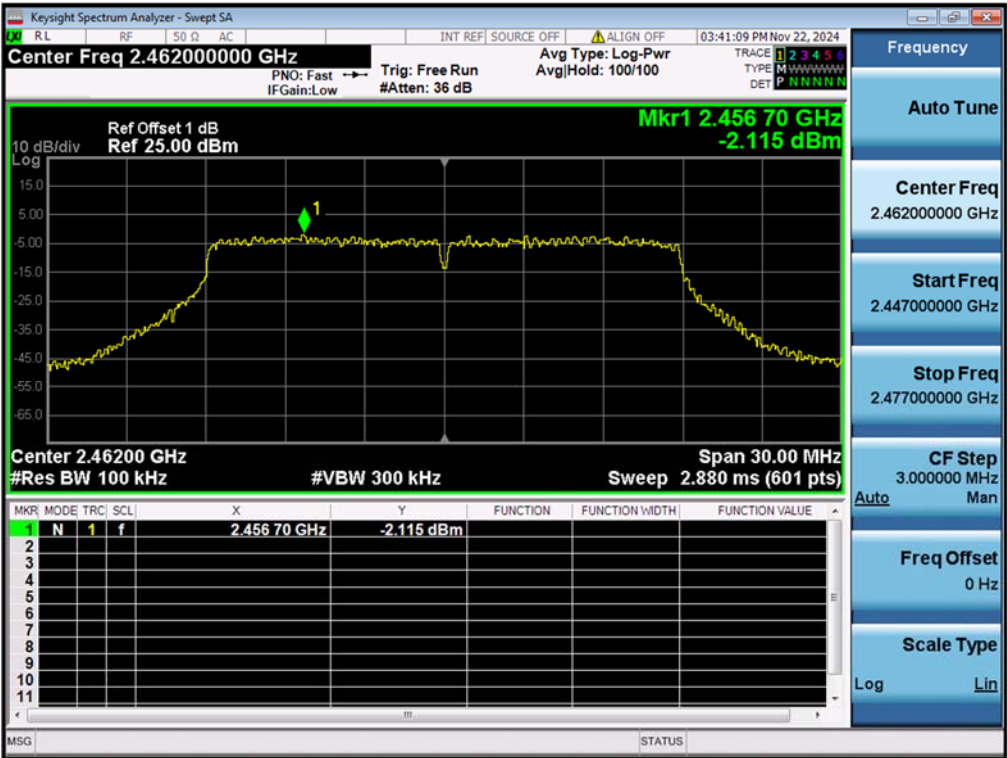


Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



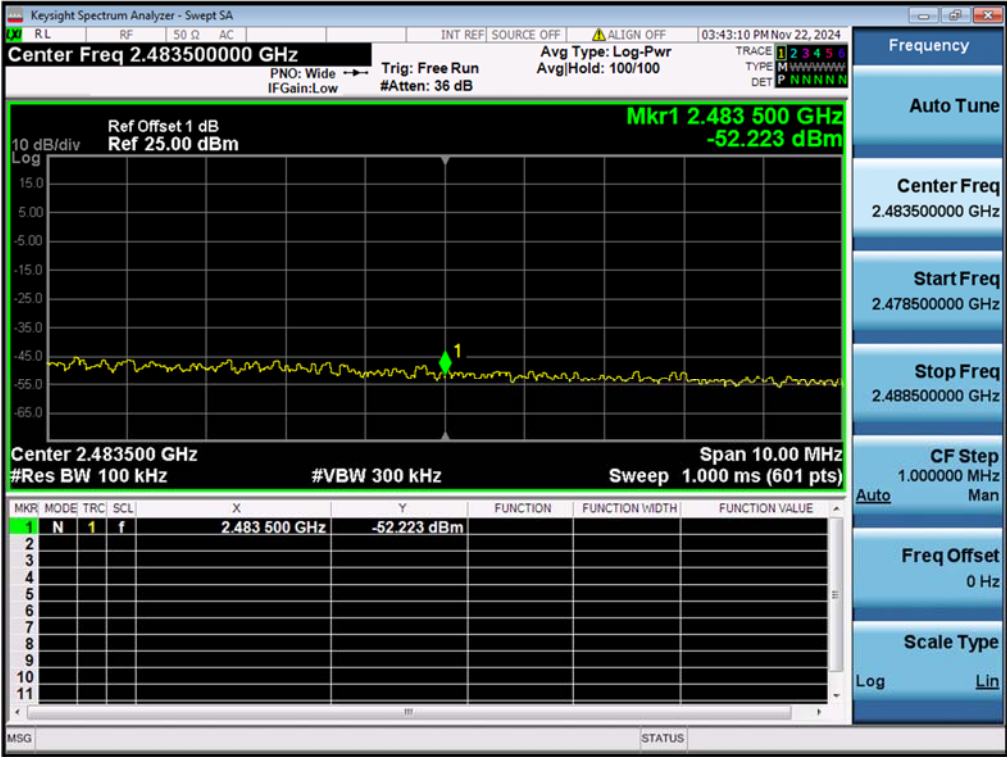
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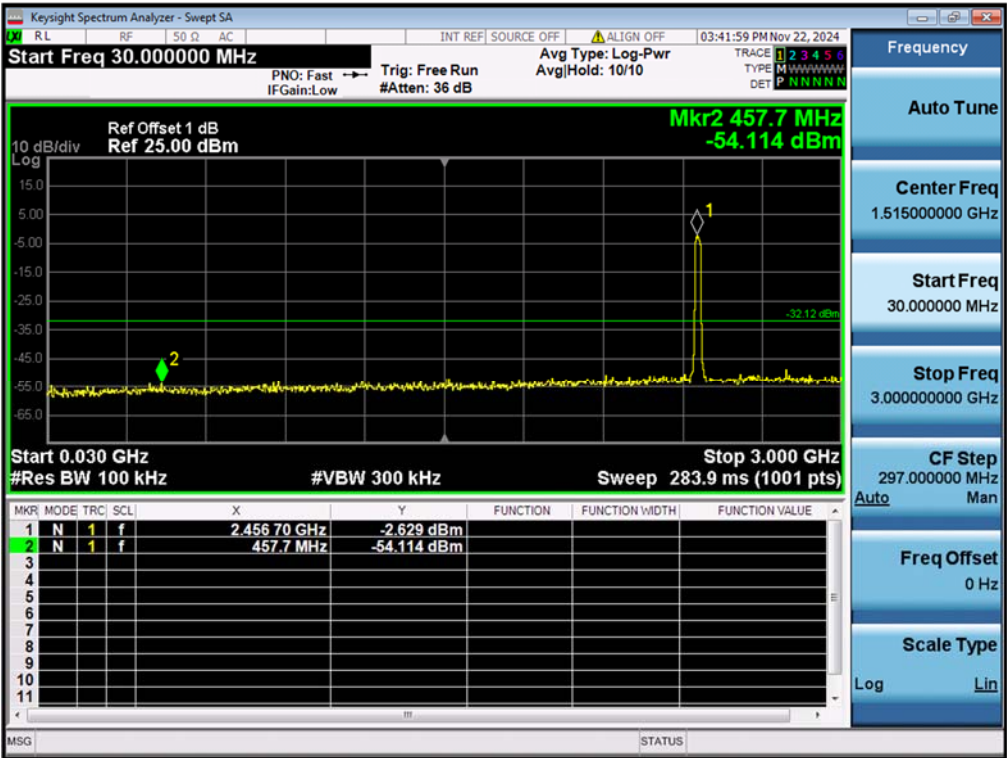
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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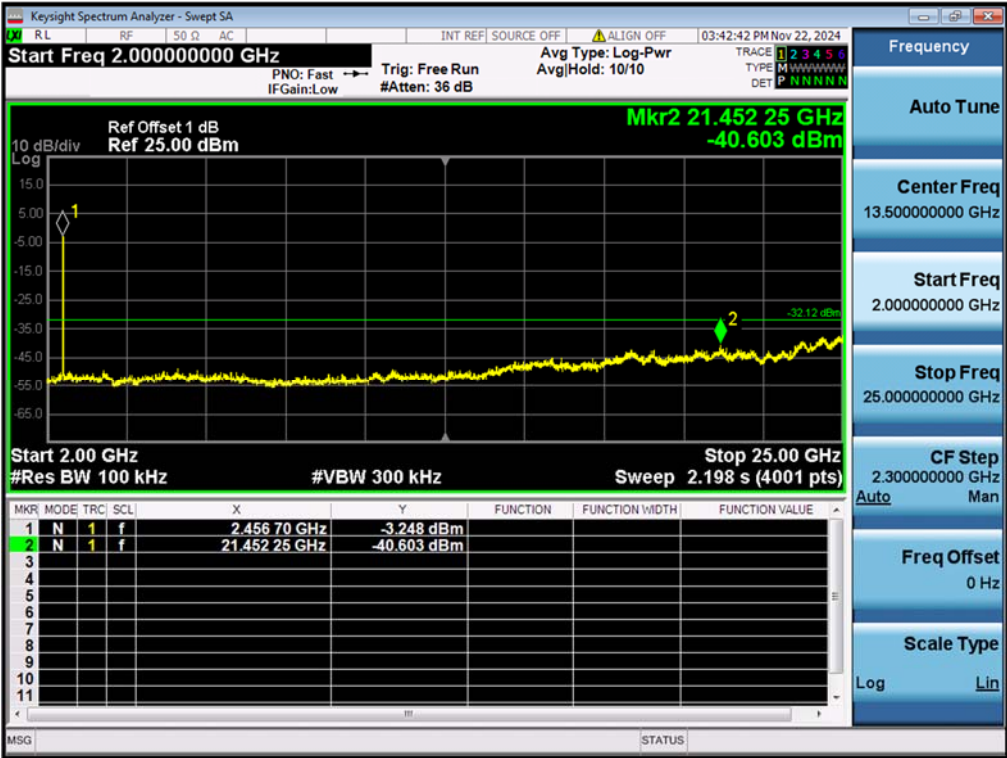
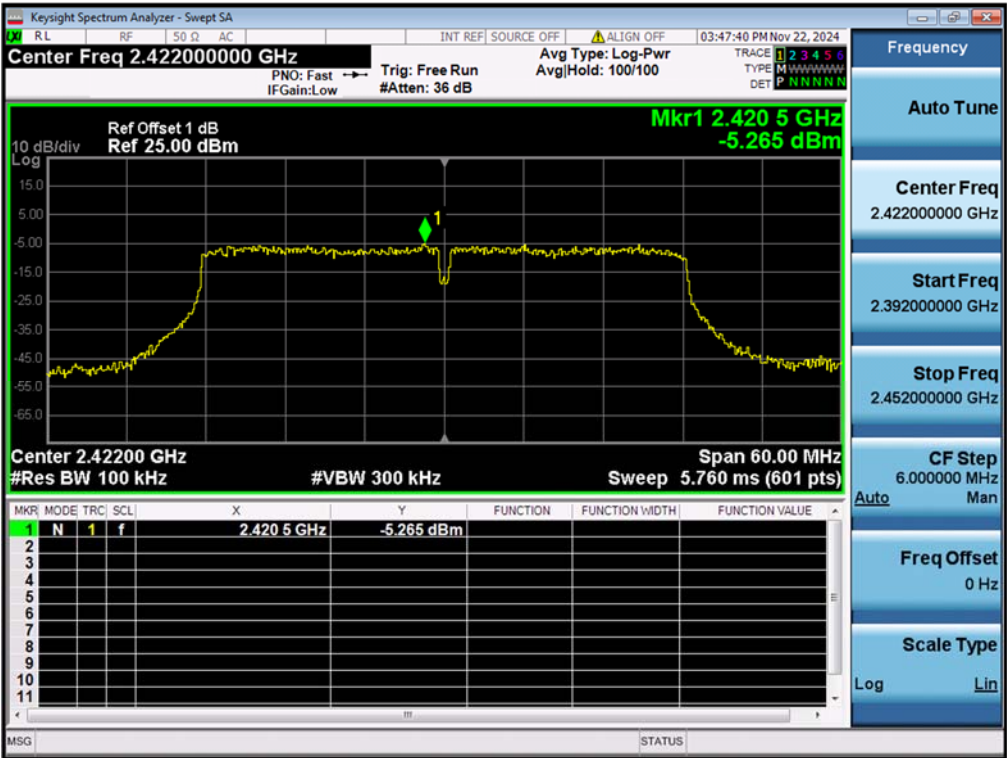


Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



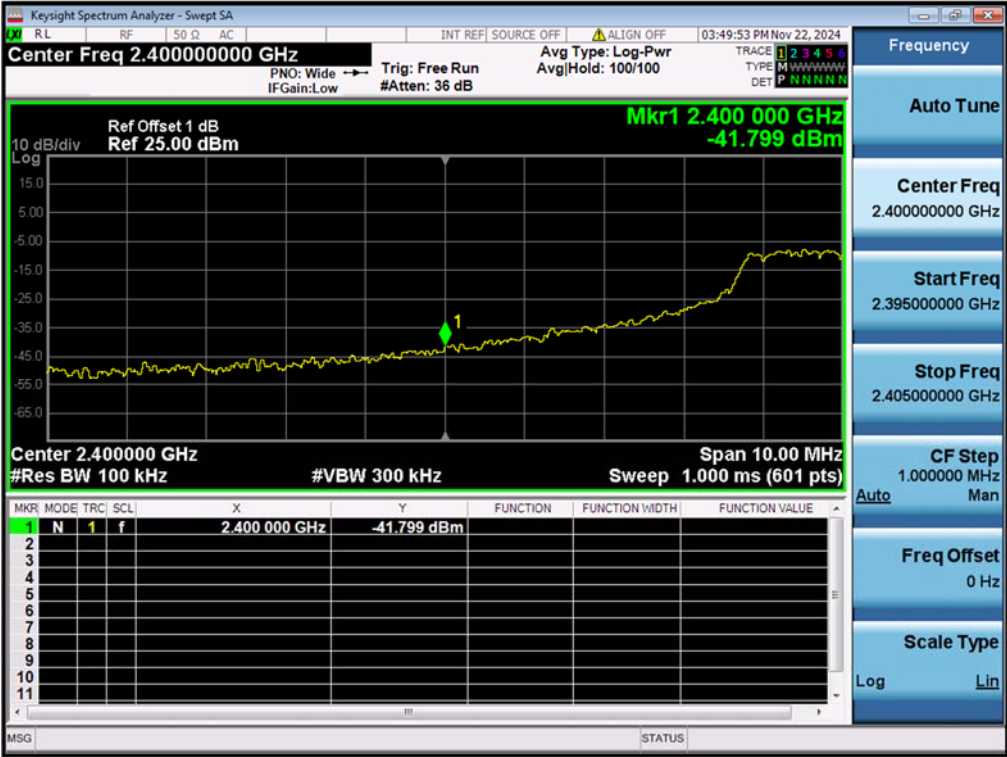
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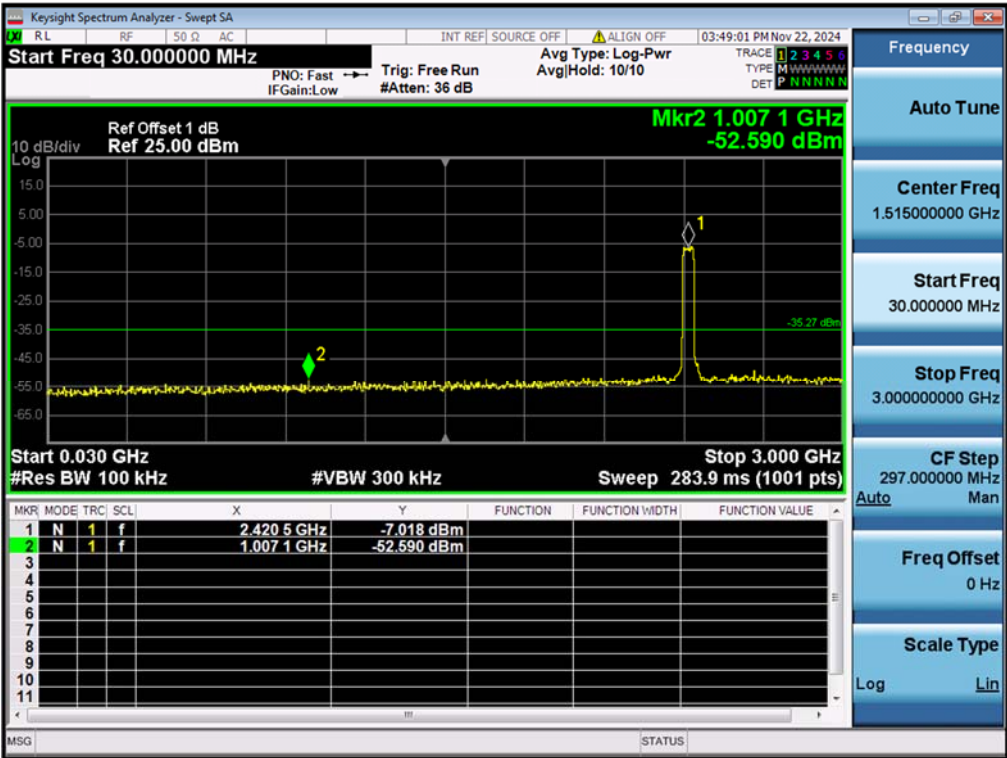
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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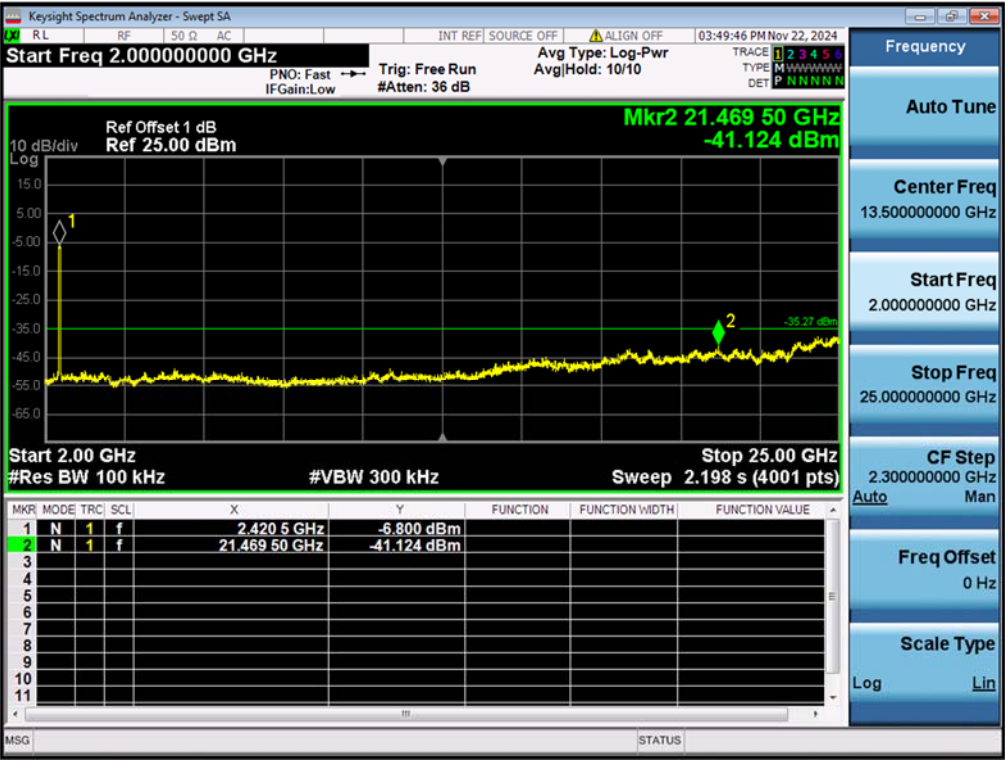
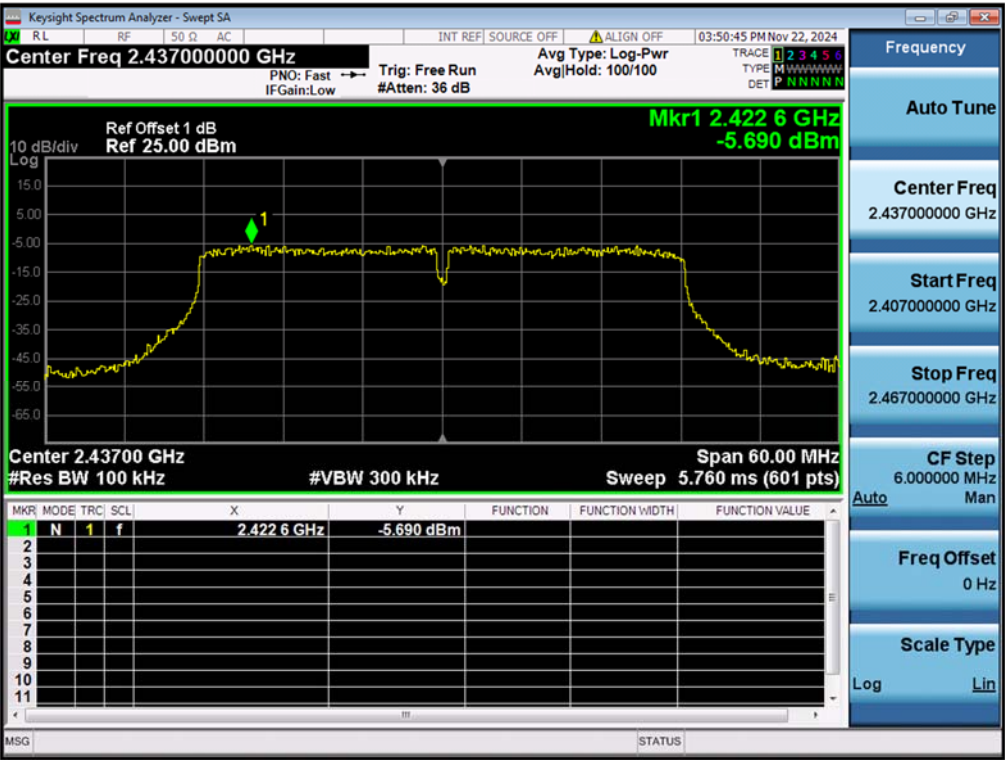


Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



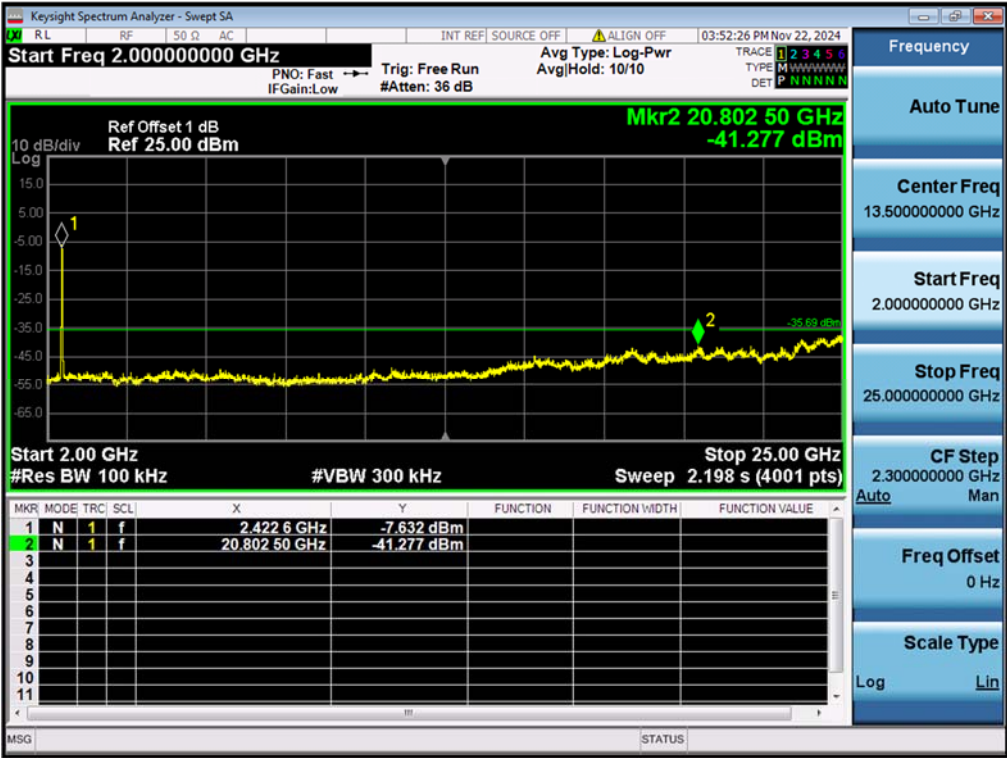
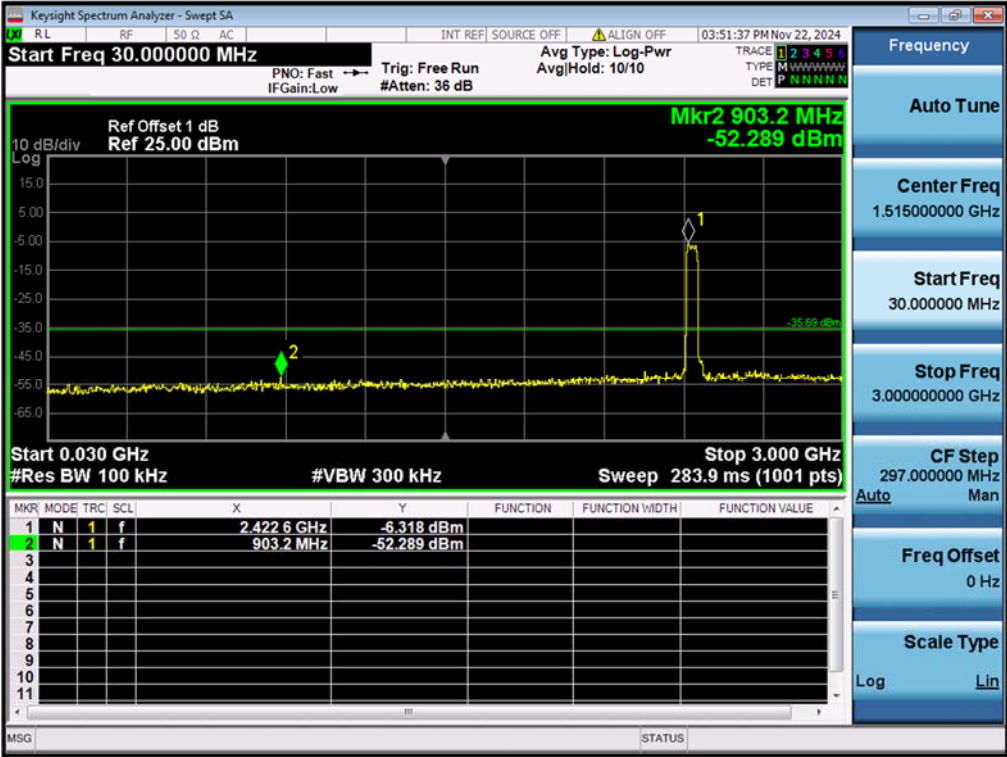
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Conducted spurious emissions 30MHz-25GHz



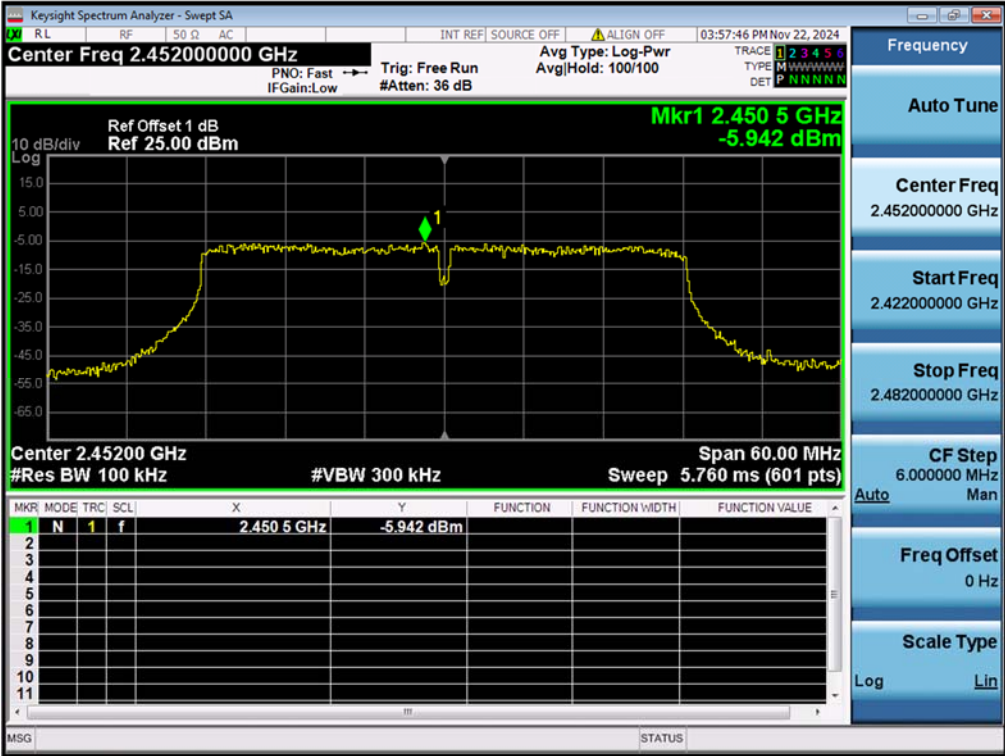
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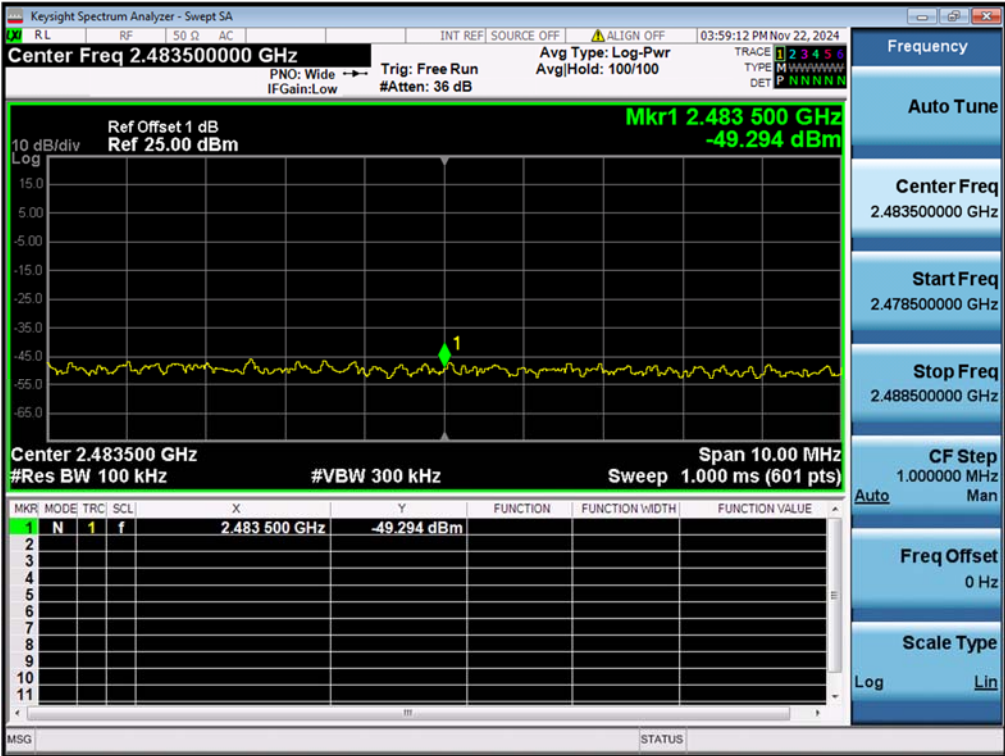
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



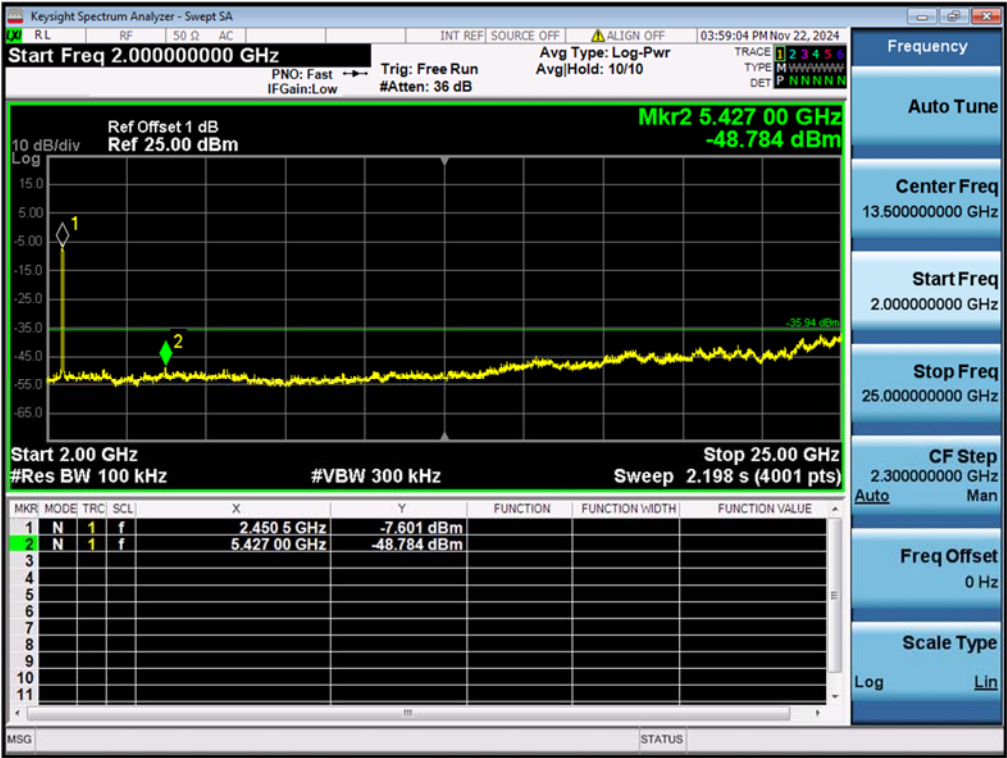
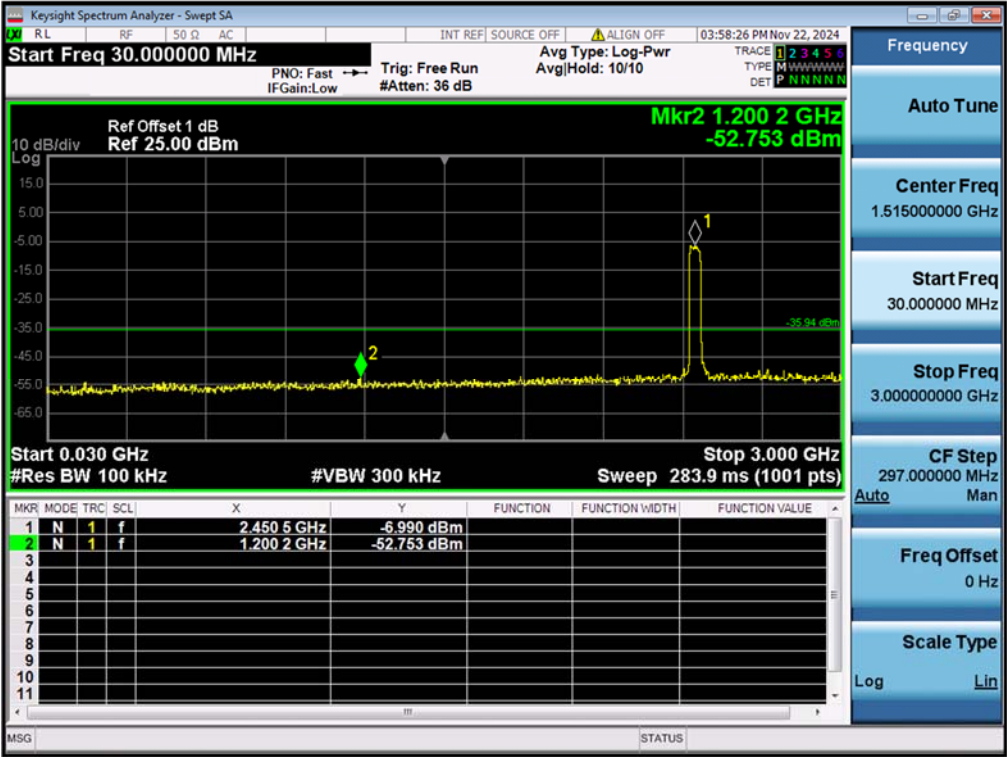
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Conducted spurious emissions 30MHz-25GHz



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4.1.6 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
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	: 23.7°C
Relative humidity	: 54%

Notes

Test plots please refer to the annex document "SHE24080045-02GE 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
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	: 24.8°C
Relative humidity	: 53%

Notes:

1. Test plots please refer to the annex document “SHE24080045-02GE 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)
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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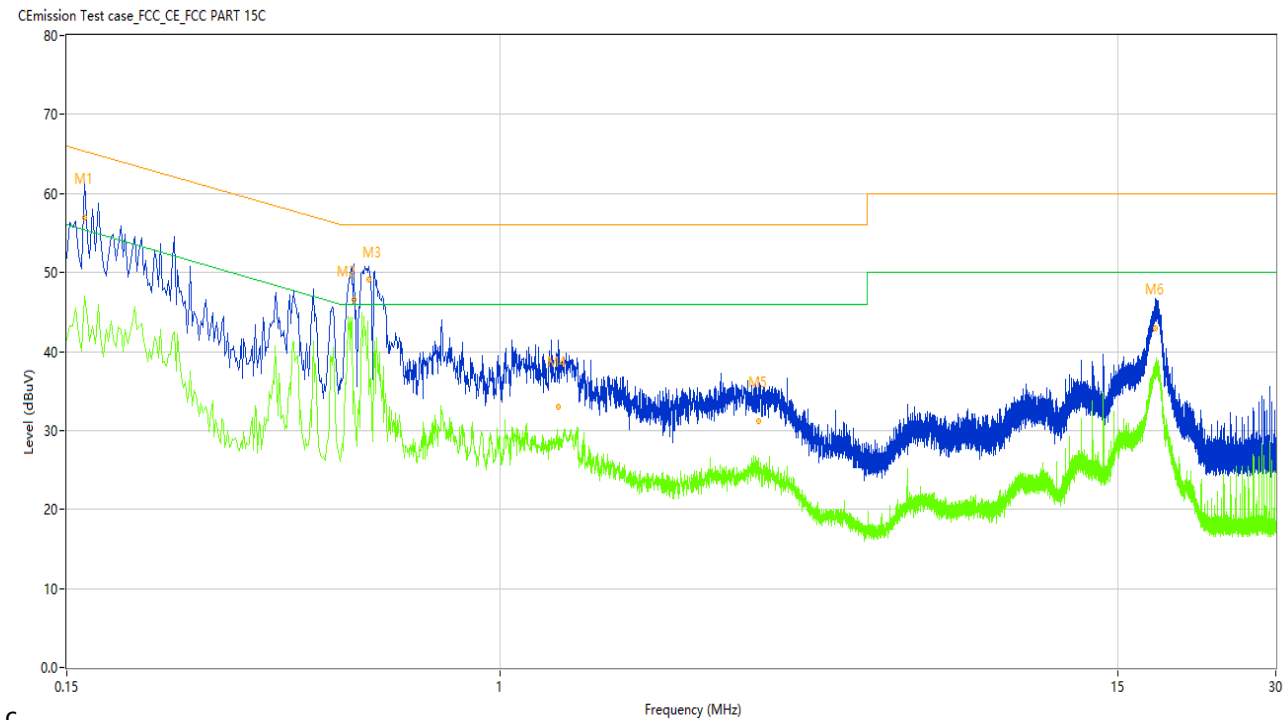
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

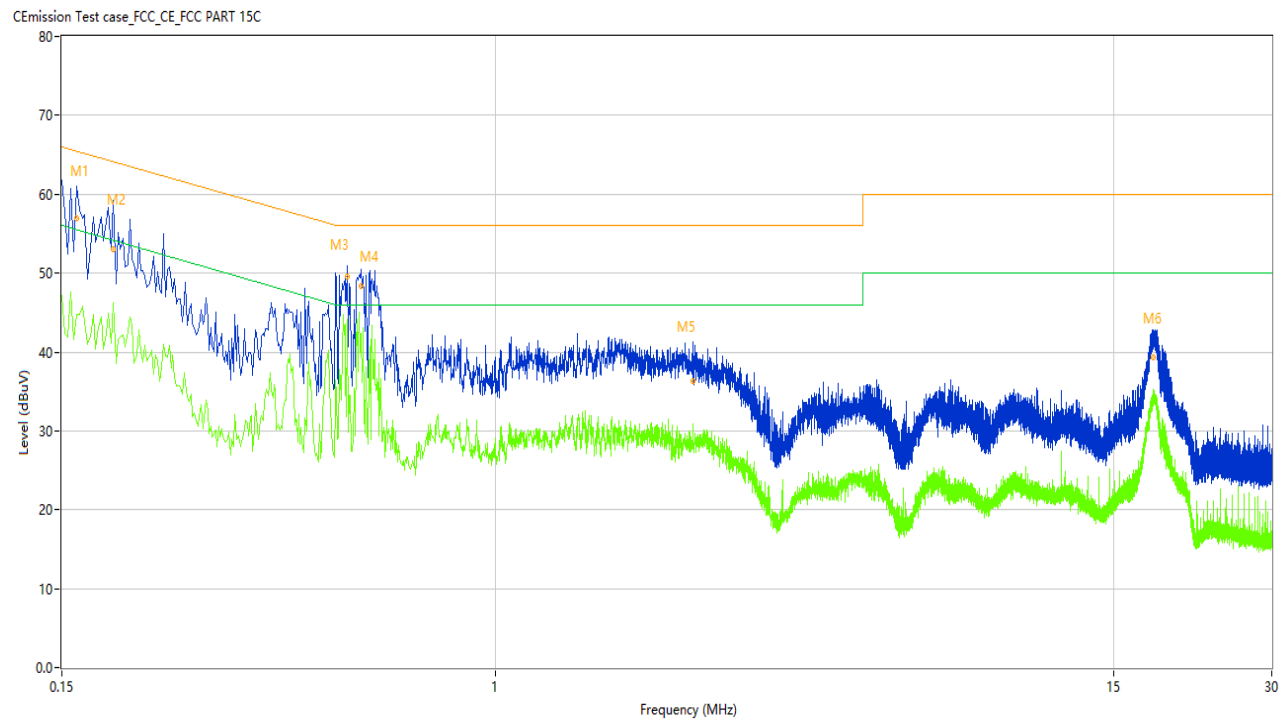
Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	61.47	9.85	65.36	3.89	Peak	L	Pass
1*	0.162	56.88	9.85	65.36	8.48	QP	L	Pass
1**	0.162	46.97	9.85	55.36	8.39	AV	L	Pass
2	0.528	51.20	9.87	56.00	4.80	Peak	L	Pass
2*	0.528	46.56	9.87	56.00	9.44	QP	L	Pass
2**	0.528	34.99	9.87	46.00	11.01	AV	L	Pass
3	0.564	51.24	9.88	56.00	4.76	Peak	L	Pass
3*	0.564	49.06	9.88	56.00	6.94	QP	L	Pass
3**	0.564	34.51	9.88	46.00	11.49	AV	L	Pass
4	1.294	38.65	9.76	56.00	17.35	Peak	L	Pass
4*	1.294	33.00	9.76	56.00	23.00	QP	L	Pass
4**	1.294	28.71	9.76	46.00	17.29	AV	L	Pass
5	3.106	34.94	9.81	56.00	21.06	Peak	L	Pass
5*	3.106	31.23	9.81	56.00	24.77	QP	L	Pass
5**	3.106	26.50	9.81	46.00	19.50	AV	L	Pass
6	17.712	47.14	9.40	60.00	12.86	Peak	L	Pass
6*	17.712	42.96	9.40	60.00	17.04	QP	L	Pass
6**	17.712	38.33	9.40	50.00	11.67	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	0.160	63.04	9.98	65.46	2.42	Peak	N	Pass
1*	0.160	56.90	9.98	65.46	8.56	QP	N	Pass
1**	0.160	44.70	9.98	55.46	10.76	AV	N	Pass
2	0.188	59.46	9.97	64.12	4.66	Peak	N	Pass
2*	0.188	53.09	9.97	64.12	11.03	QP	N	Pass
2**	0.188	46.31	9.97	54.12	7.81	AV	N	Pass
3	0.524	52.47	10.03	56.00	3.53	Peak	N	Pass
3*	0.524	49.59	10.03	56.00	6.41	QP	N	Pass
3**	0.524	44.15	10.03	46.00	1.85	AV	N	Pass
4	0.556	50.13	10.02	56.00	5.87	Peak	N	Pass
4*	0.556	48.38	10.02	56.00	7.62	QP	N	Pass
4**	0.556	42.27	10.02	46.00	3.73	AV	N	Pass
5	2.382	41.41	9.83	56.00	14.59	Peak	N	Pass
5*	2.382	36.24	9.83	56.00	19.76	QP	N	Pass
5**	2.382	29.51	9.83	46.00	16.49	AV	N	Pass
6	17.842	42.86	9.42	60.00	17.14	Peak	N	Pass
6*	17.842	39.27	9.42	60.00	20.73	QP	N	Pass
6**	17.842	34.81	9.42	50.00	15.19	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



All of the sample



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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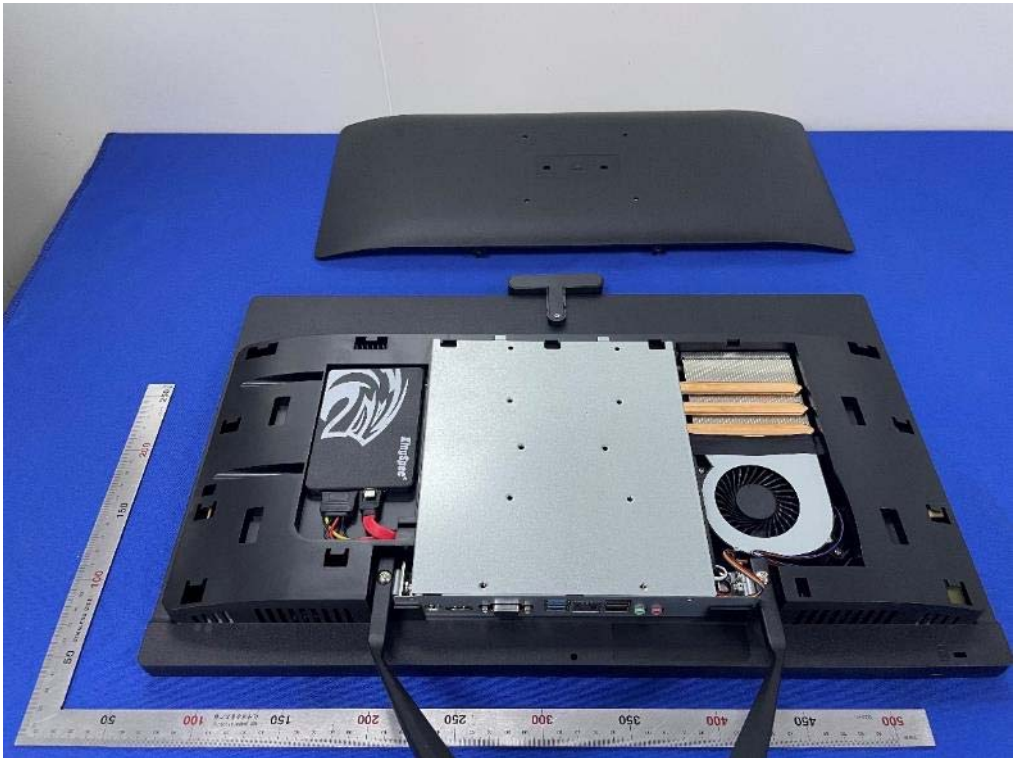
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Bottom of the sample



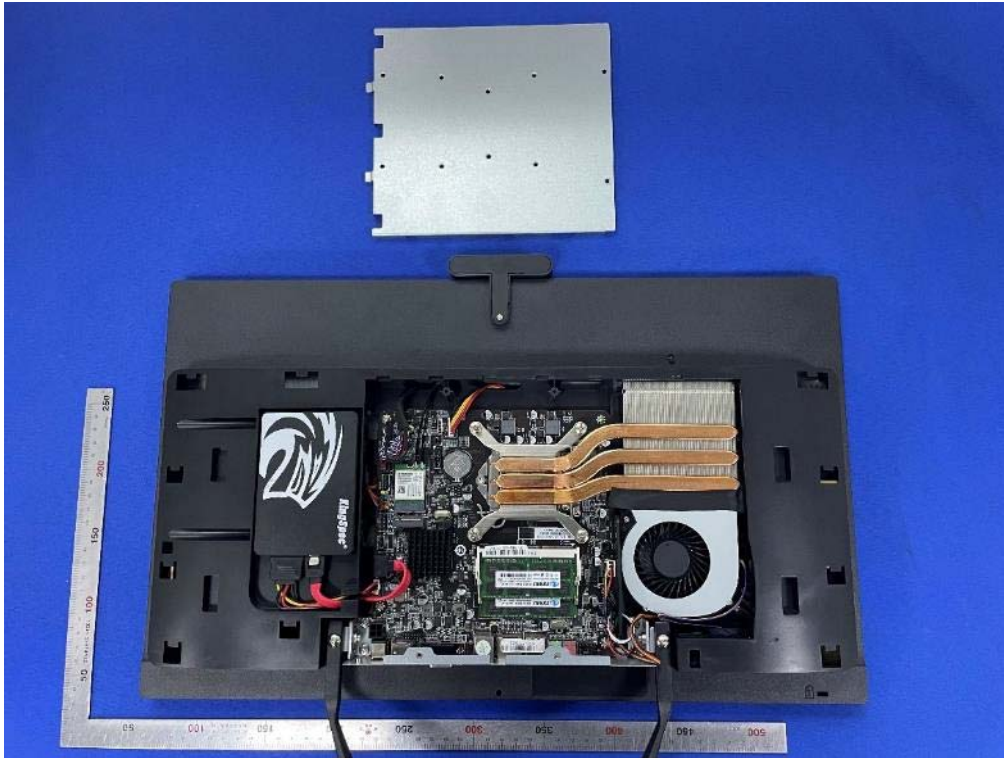
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Open-2 of the sample



Open-3 of the sample

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Internal-1 of the sample



Internal-2 of the sample

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Internal-3 of the sample



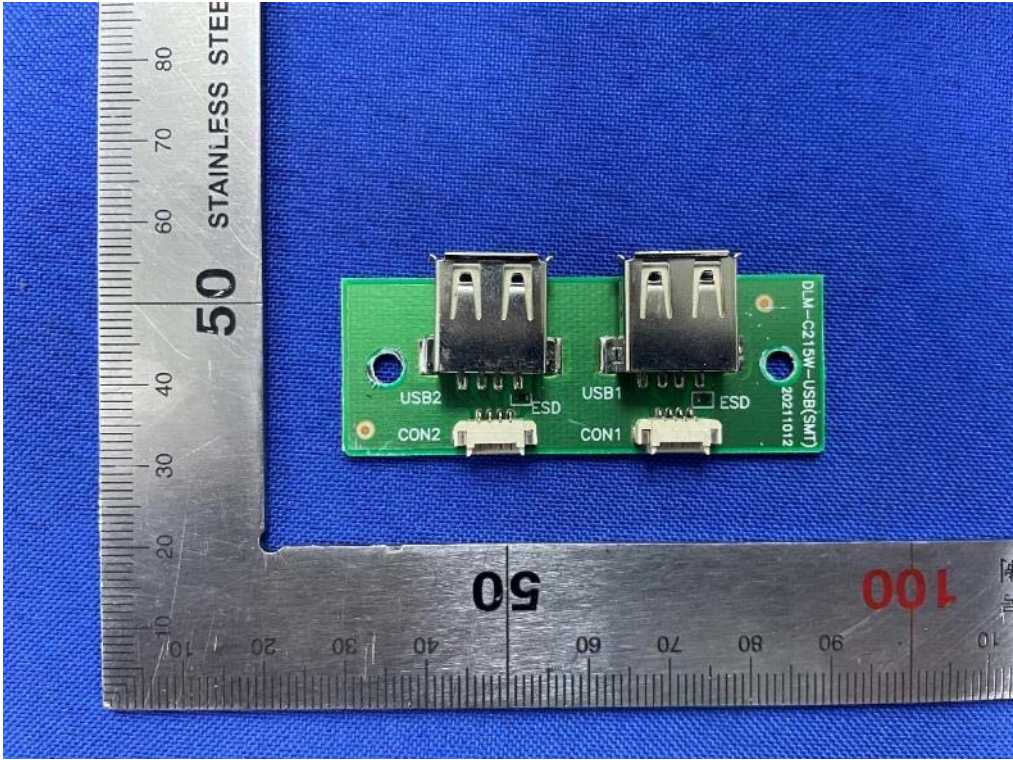
Internal-4 of the sample

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Internal-5 of the sample



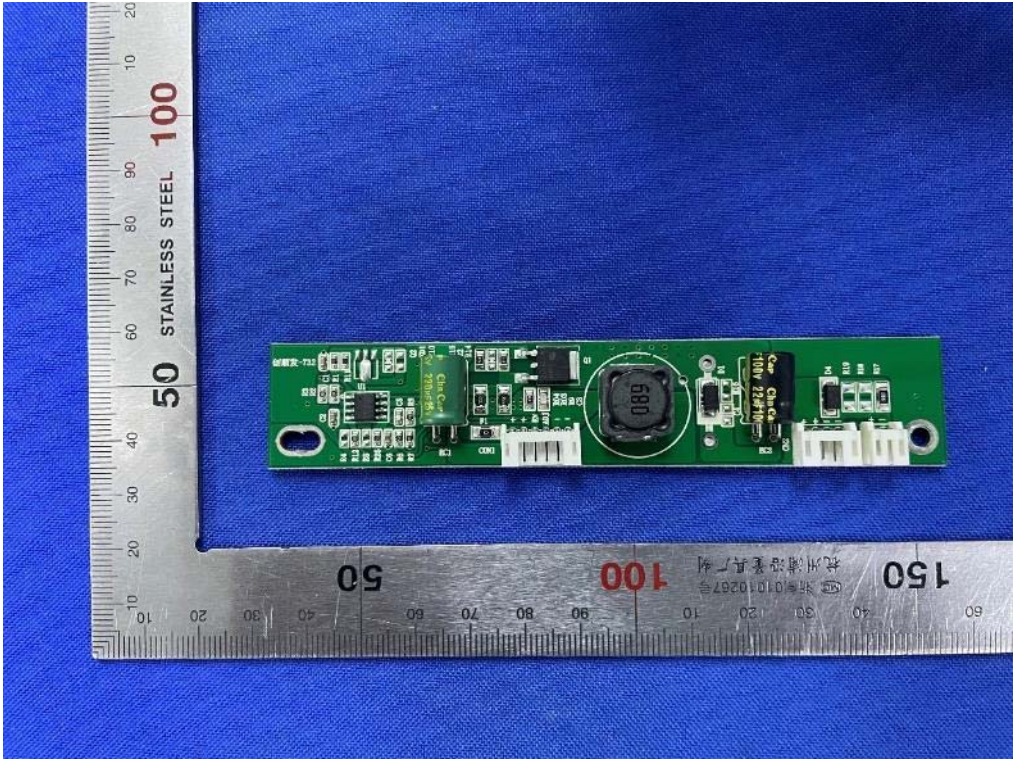
Internal-6 of the sample

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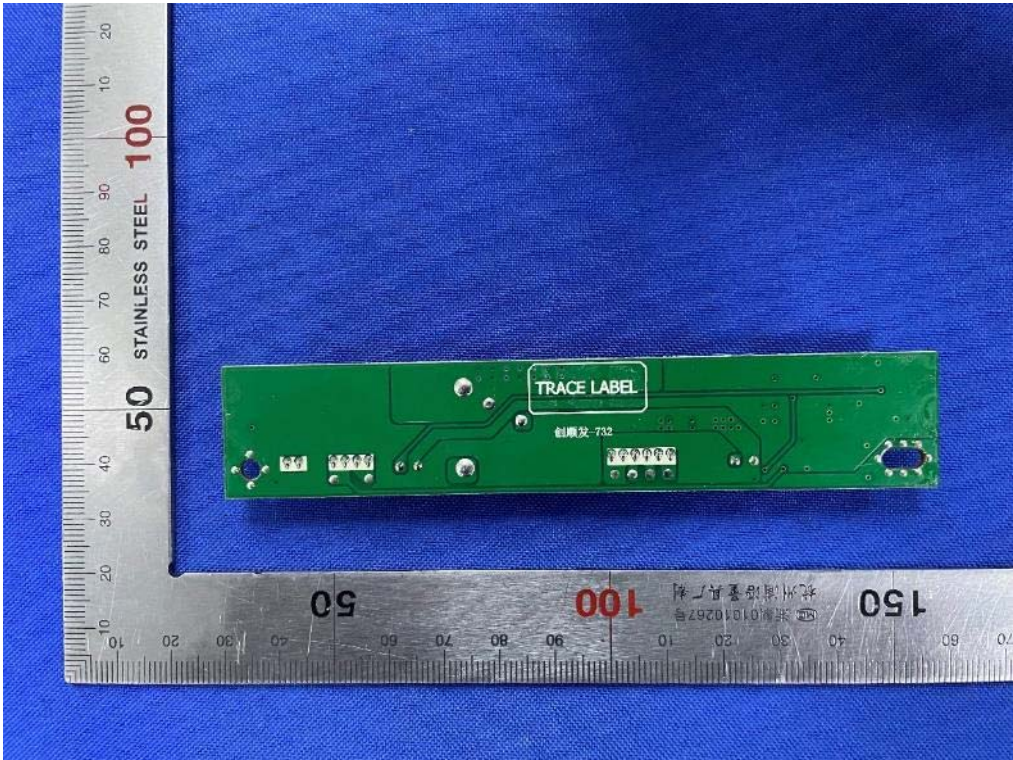
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Internal-7 of the sample



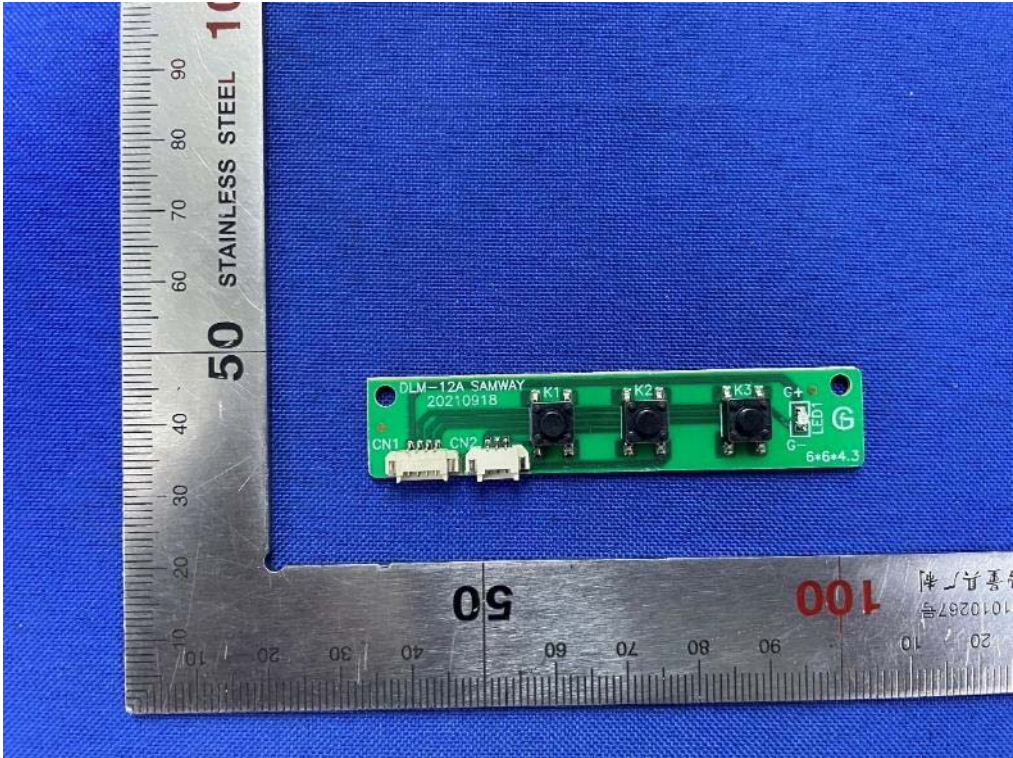
Internal-8 of the sample

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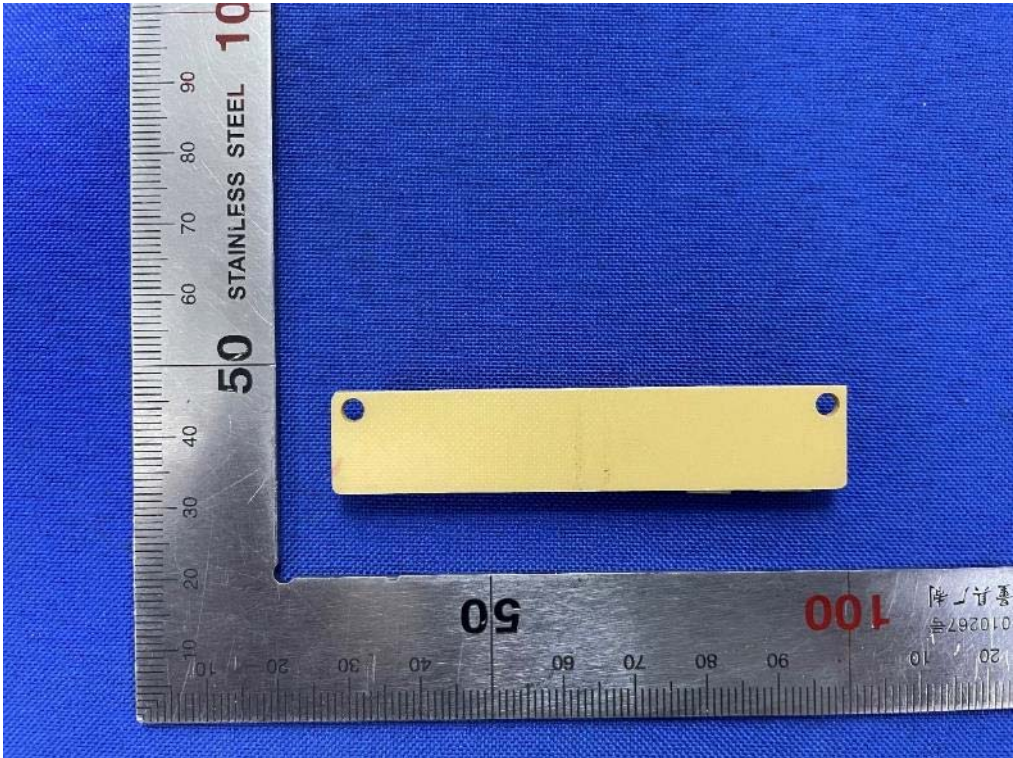
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Internal-9 of the sample



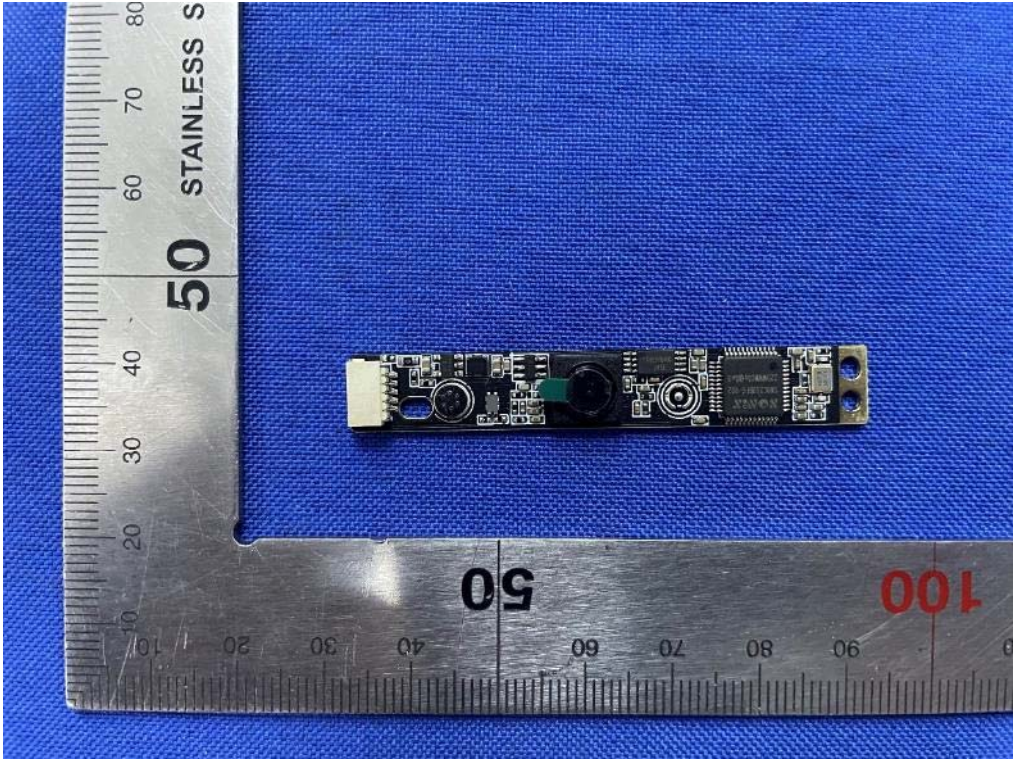
Internal-10 of the sample

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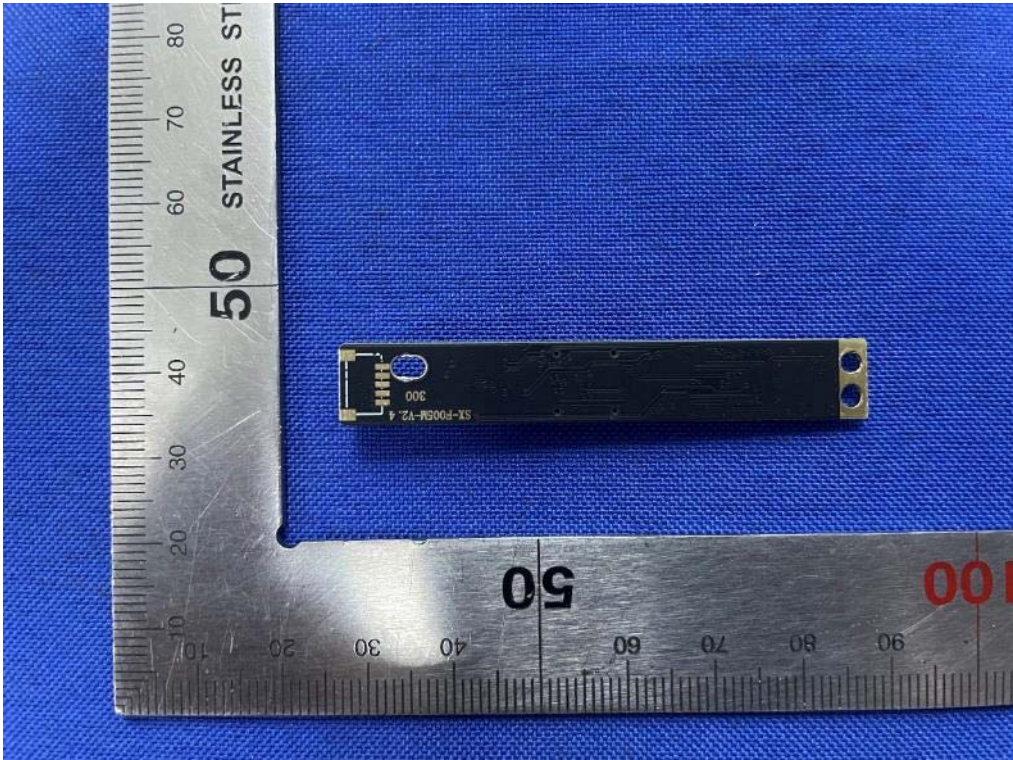
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Internal-11 of the sample



Internal-12 of the sample

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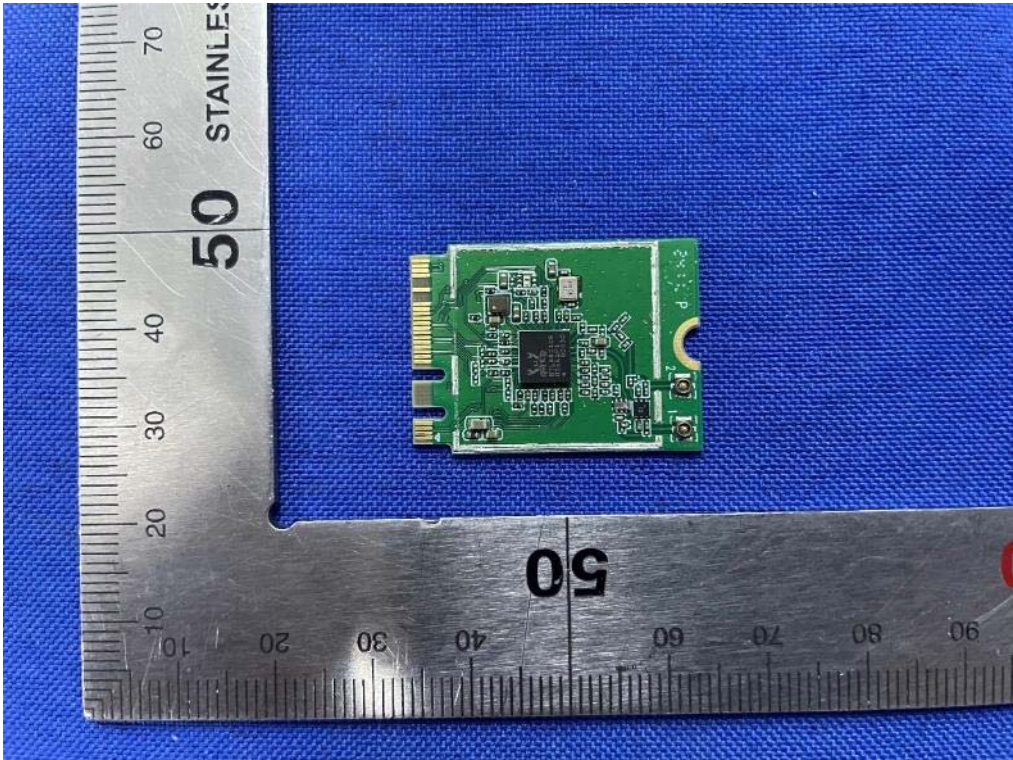
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Internal-13 of the sample



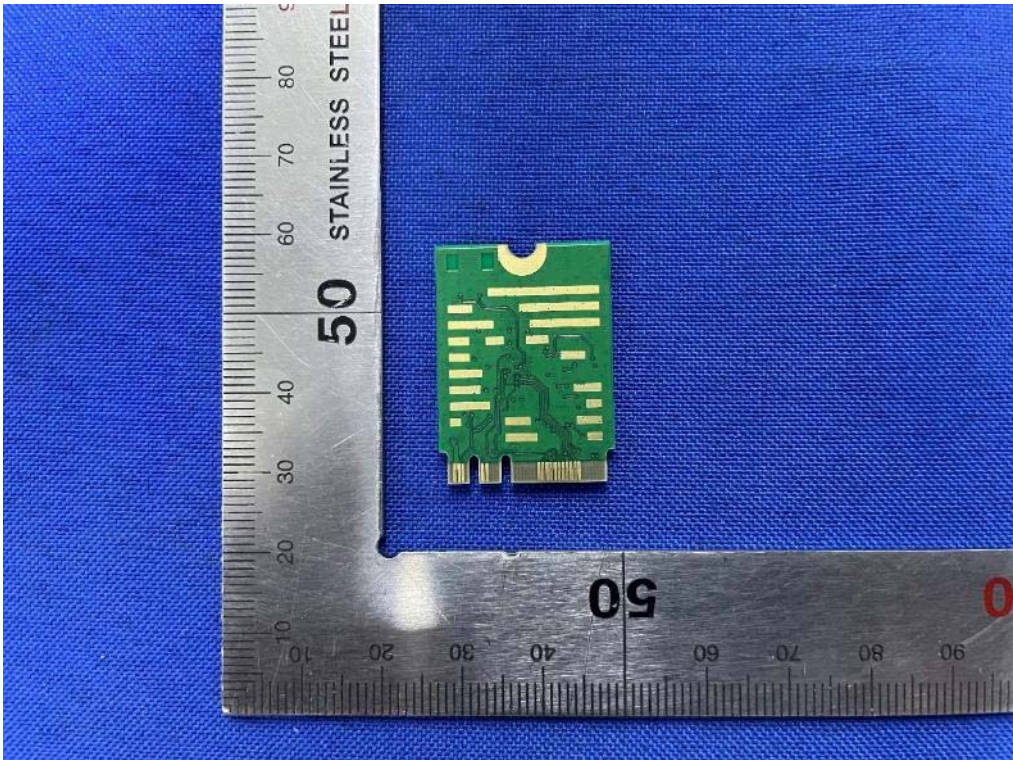
Internal-14 of the sample

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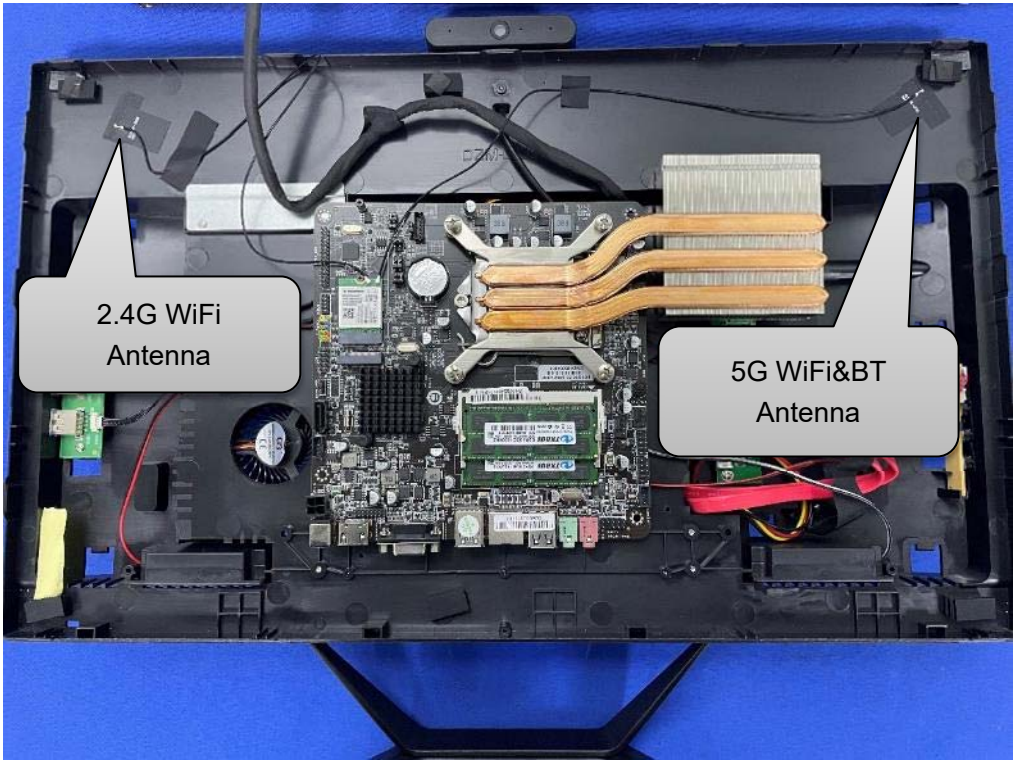
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Internal-15 of the sample



Antenna Position

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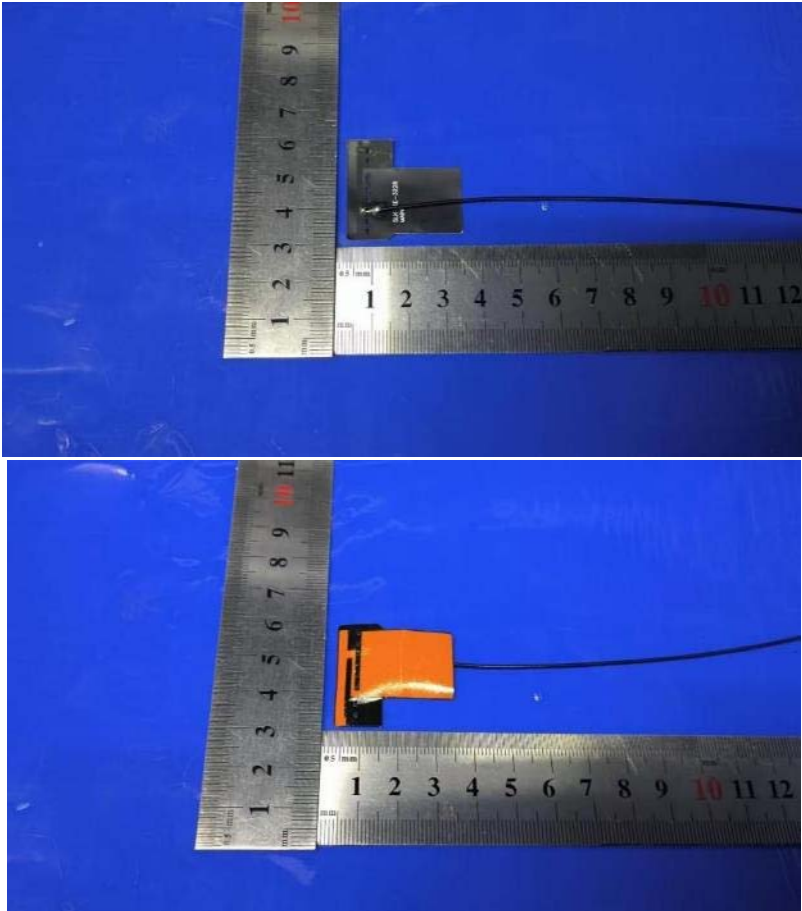
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Antenna Interface



Antenna Photo

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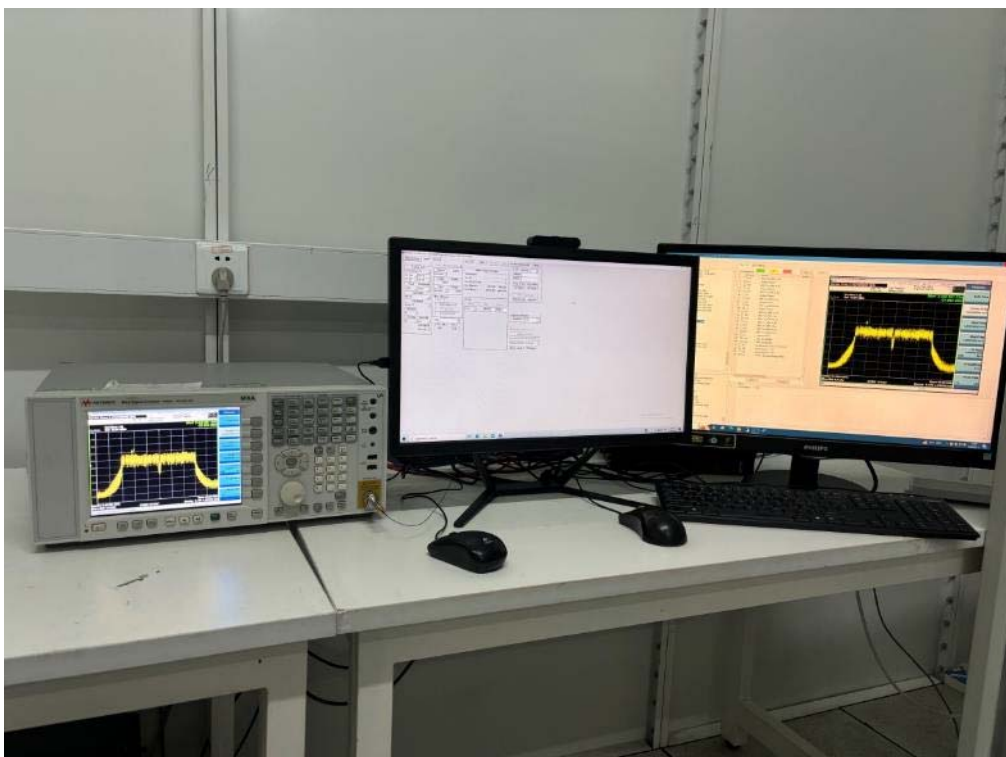
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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report