

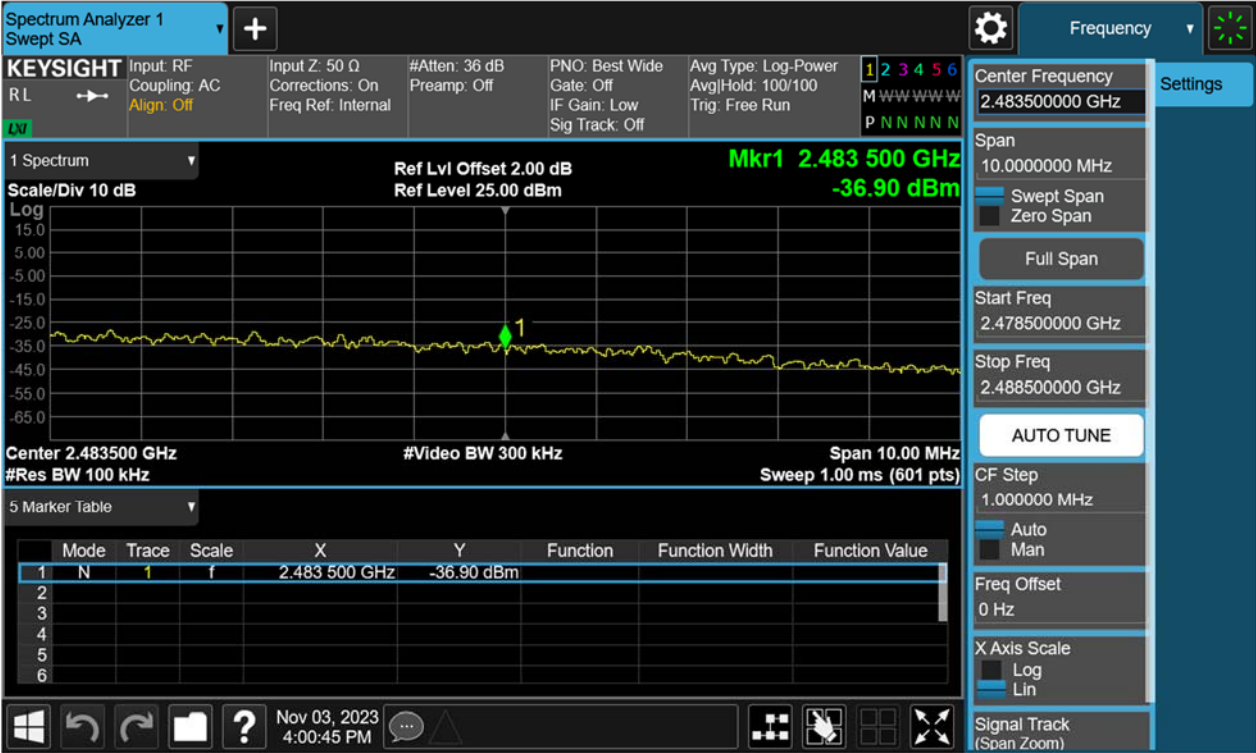
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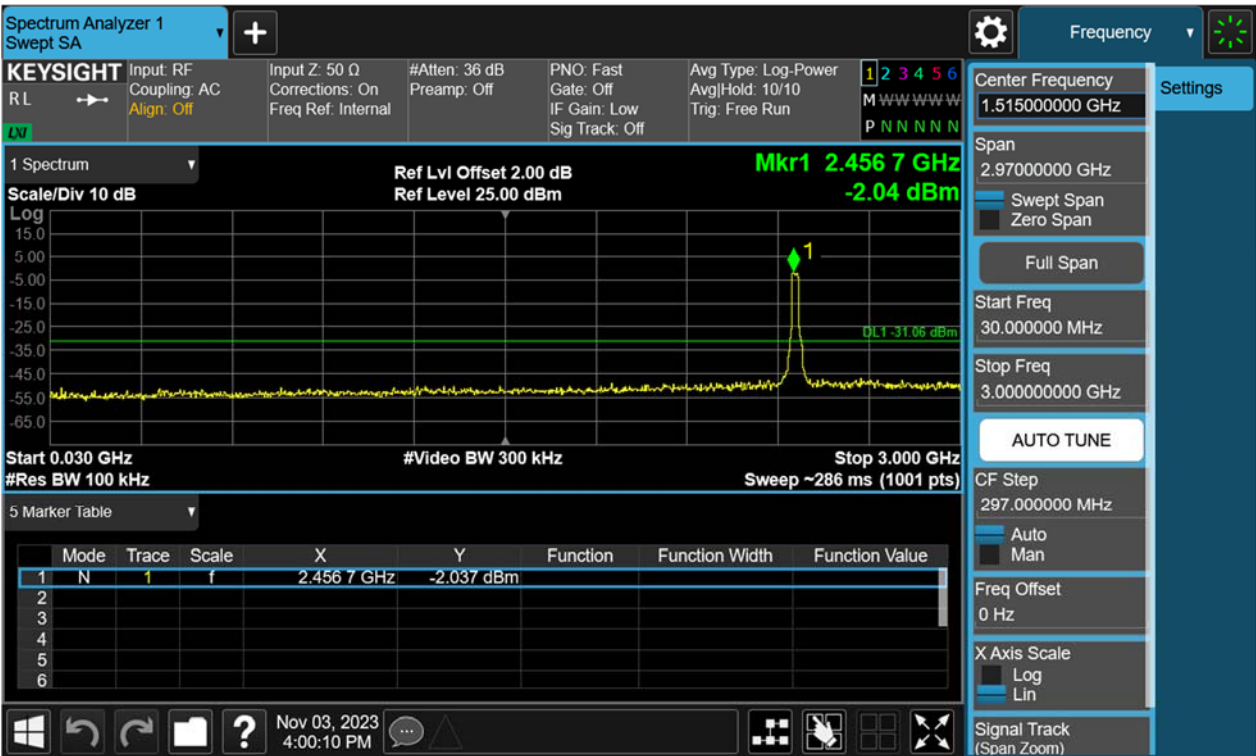
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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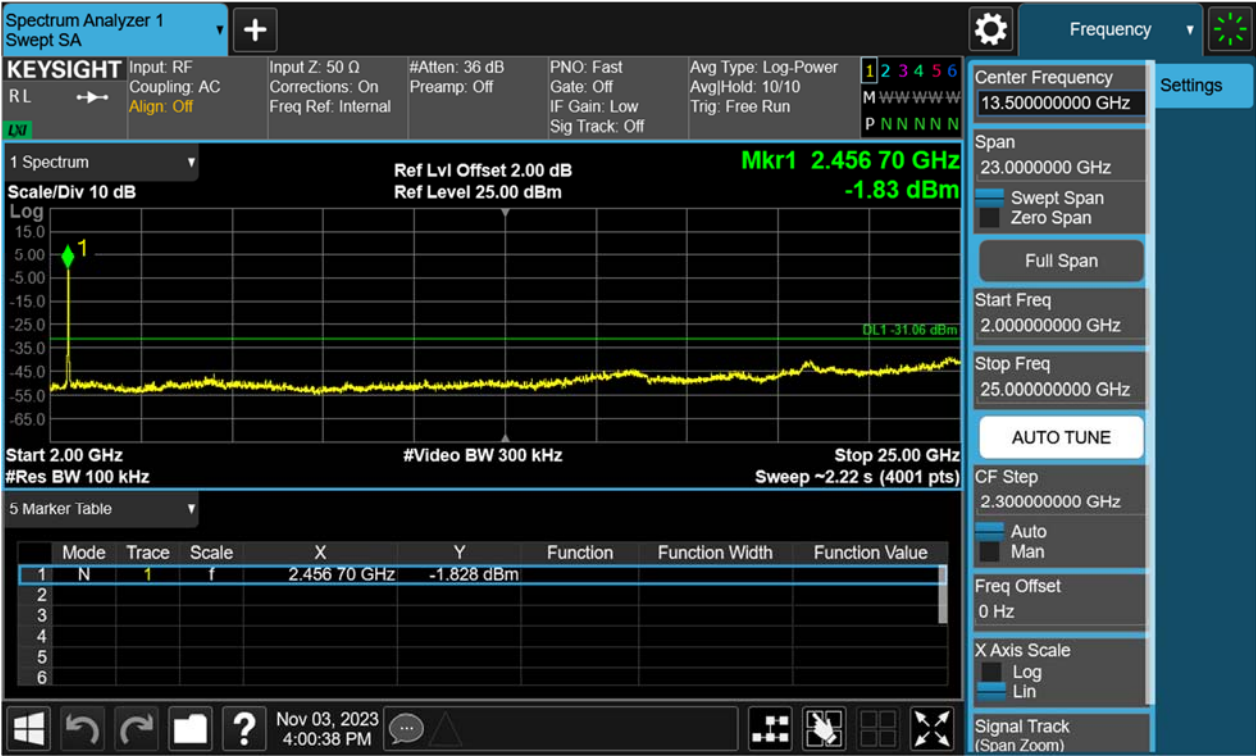


Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



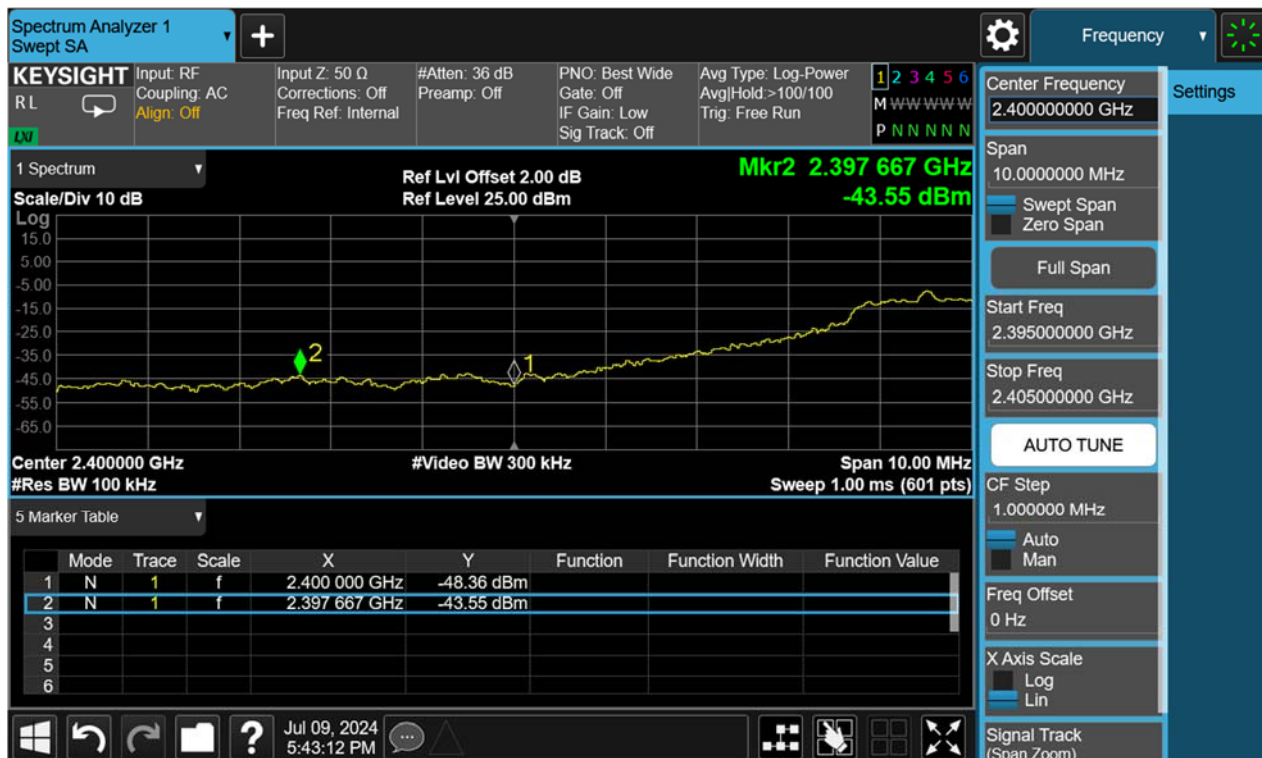
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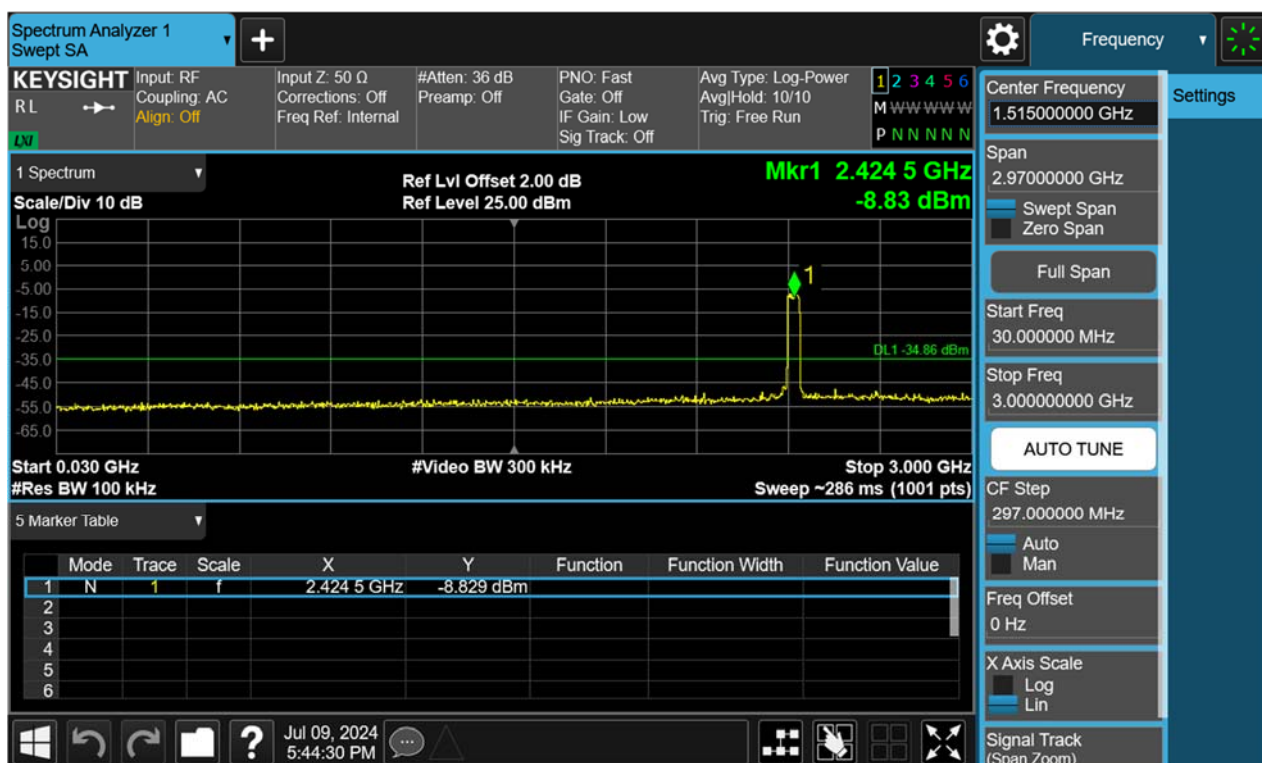
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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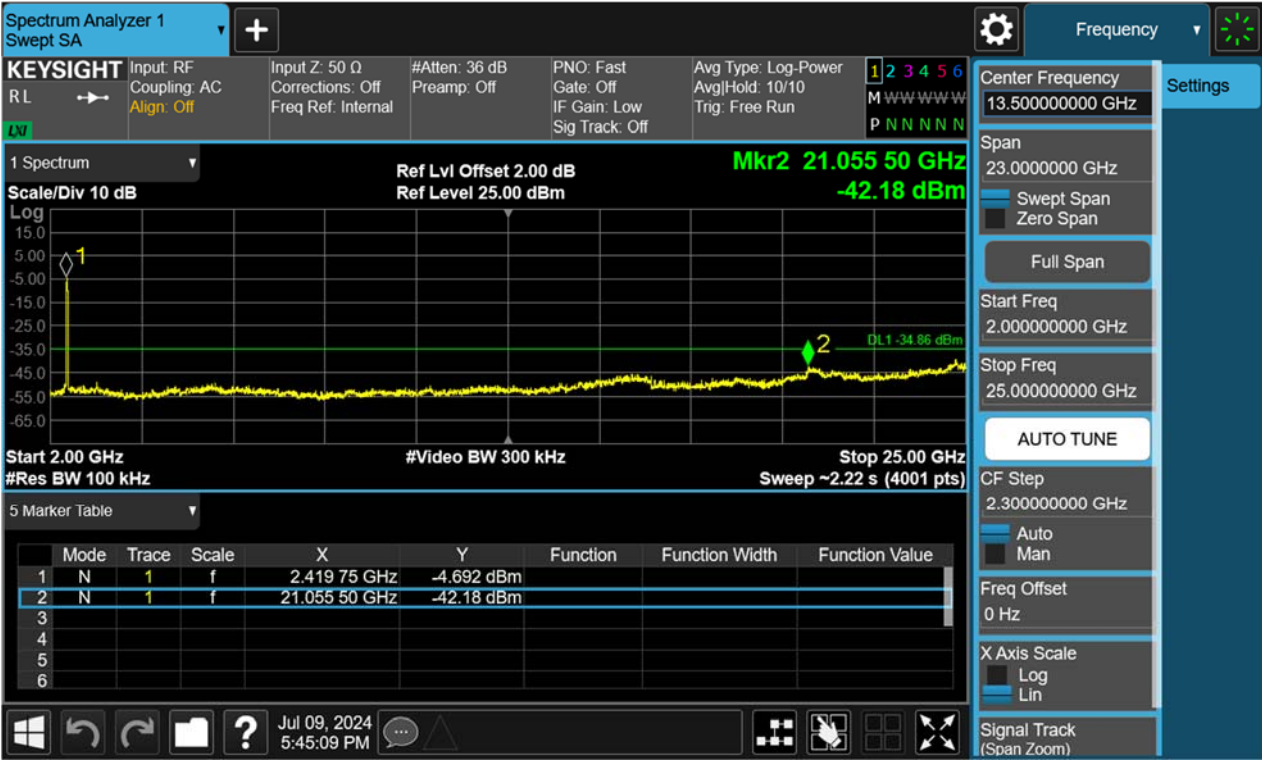
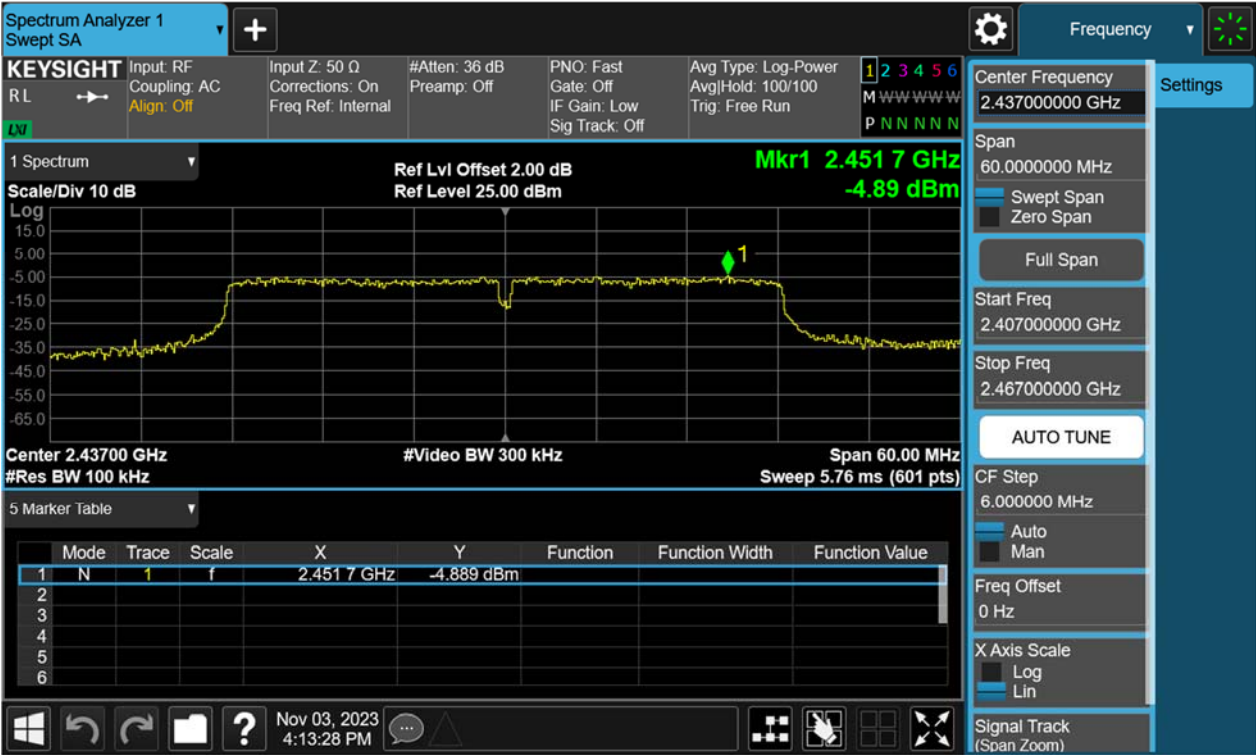


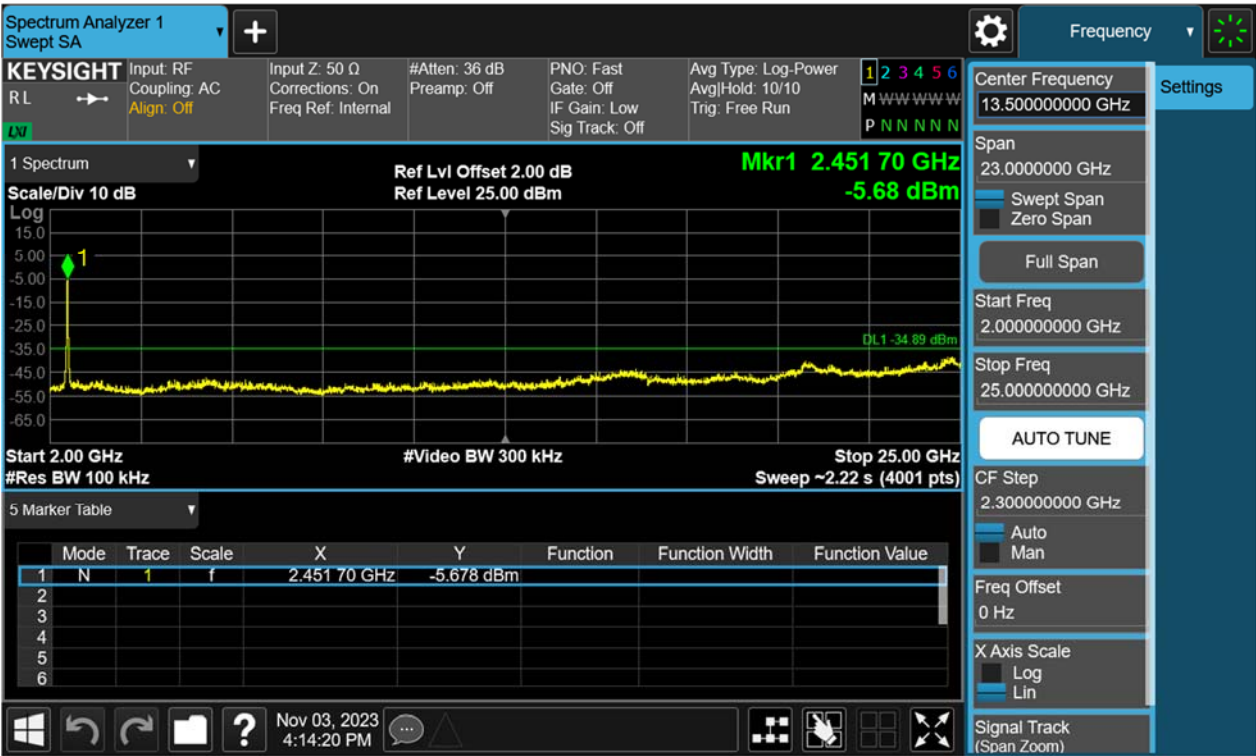
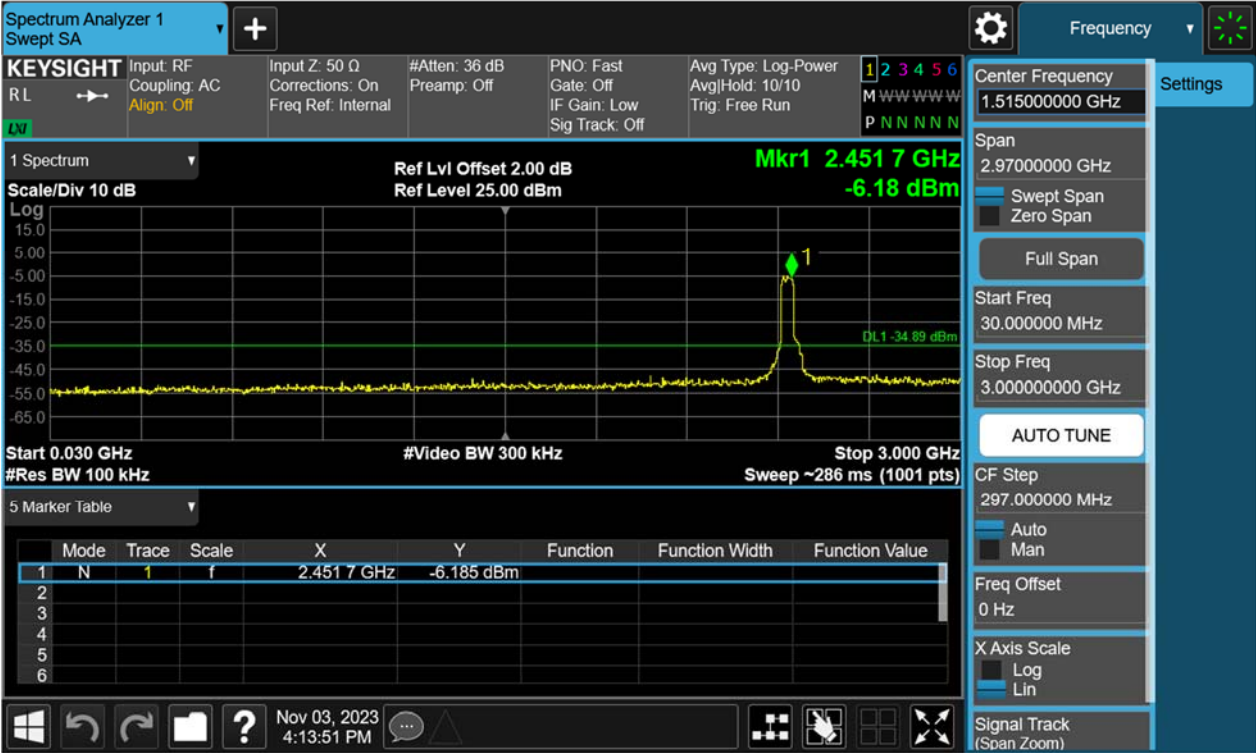
Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



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Conducted spurious emissions 30MHz-25GHz



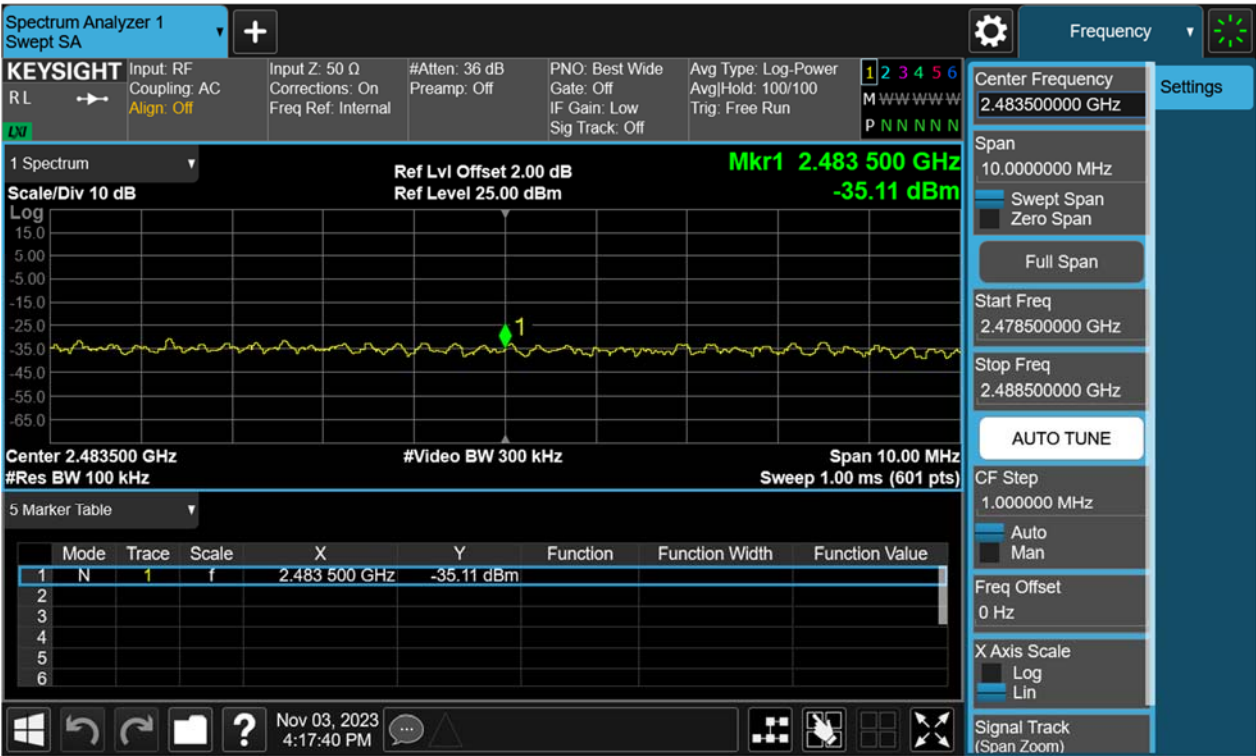
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



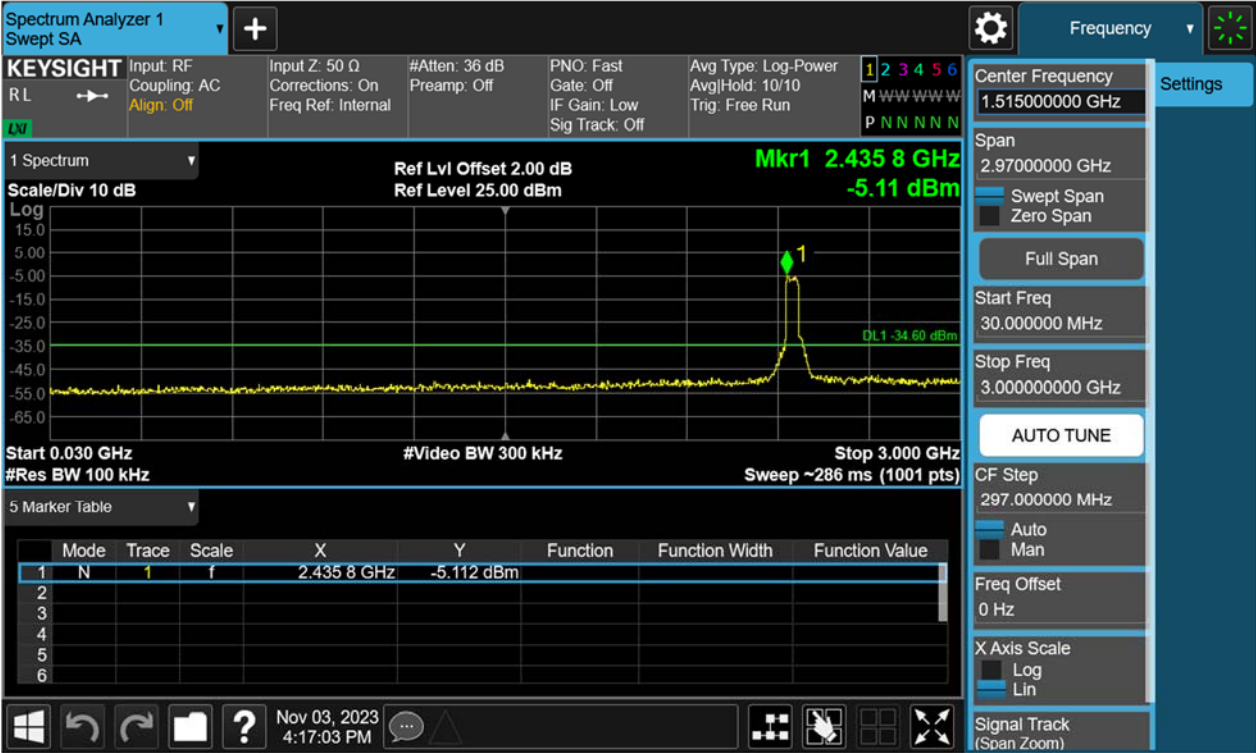
Band Edge



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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

: 25.1°C

Relative humidity

: 52%

Notes

Test plots please refer to the annex document “SHE23100101-01AE 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	: 25.1°C
Relative humidity	: 52%

Notes:

1. Test plots please refer to the annex document “SHE23100101-01AE 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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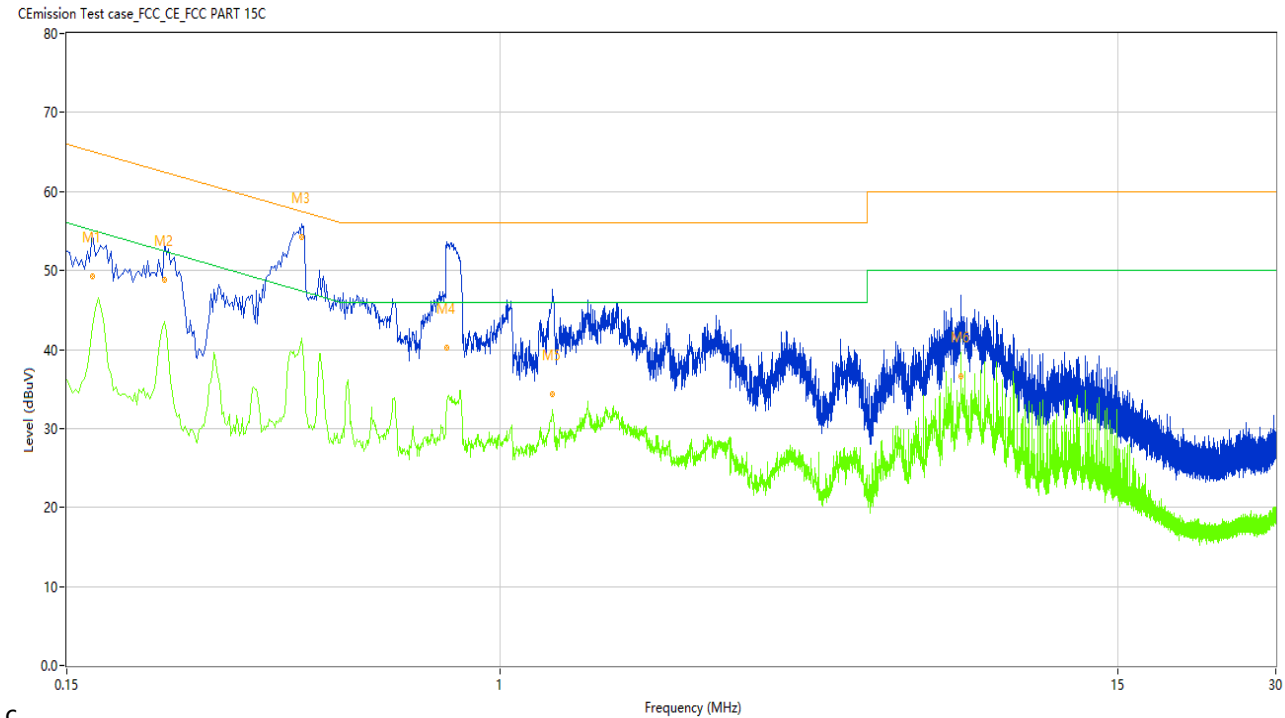
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	55.82	9.94	65.06	9.24	Peak	L	0.168
1*	0.168	49.26	9.94	65.06	15.80	QP	L	0.168
1**	0.168	42.93	9.94	55.06	12.13	AV	L	0.168
2	0.230	54.65	9.96	62.45	7.80	Peak	L	0.230
2*	0.230	48.81	9.96	62.45	13.64	QP	L	0.230
2**	0.230	43.49	9.96	52.45	8.96	AV	L	0.230
3	0.420	55.96	9.97	57.45	1.49	Peak	L	0.420
3*	0.420	54.31	9.97	57.45	3.14	QP	L	0.420
3**	0.420	41.36	9.97	47.45	6.09	AV	L	0.420
4	0.794	46.31	9.94	56.00	9.69	Peak	L	0.794
4*	0.794	40.24	9.94	56.00	15.76	QP	L	0.794
4**	0.794	33.45	9.94	46.00	12.55	AV	L	0.794
5	1.262	41.64	9.84	56.00	14.36	Peak	L	1.262
5*	1.262	34.28	9.84	56.00	21.72	QP	L	1.262
5**	1.262	32.46	9.84	46.00	13.54	AV	L	1.262
6	7.554	43.66	9.76	60.00	16.34	Peak	L	7.554
6*	7.554	36.64	9.76	60.00	23.36	QP	L	7.554
6**	7.554	39.03	9.76	50.00	10.97	AV	L	7.554

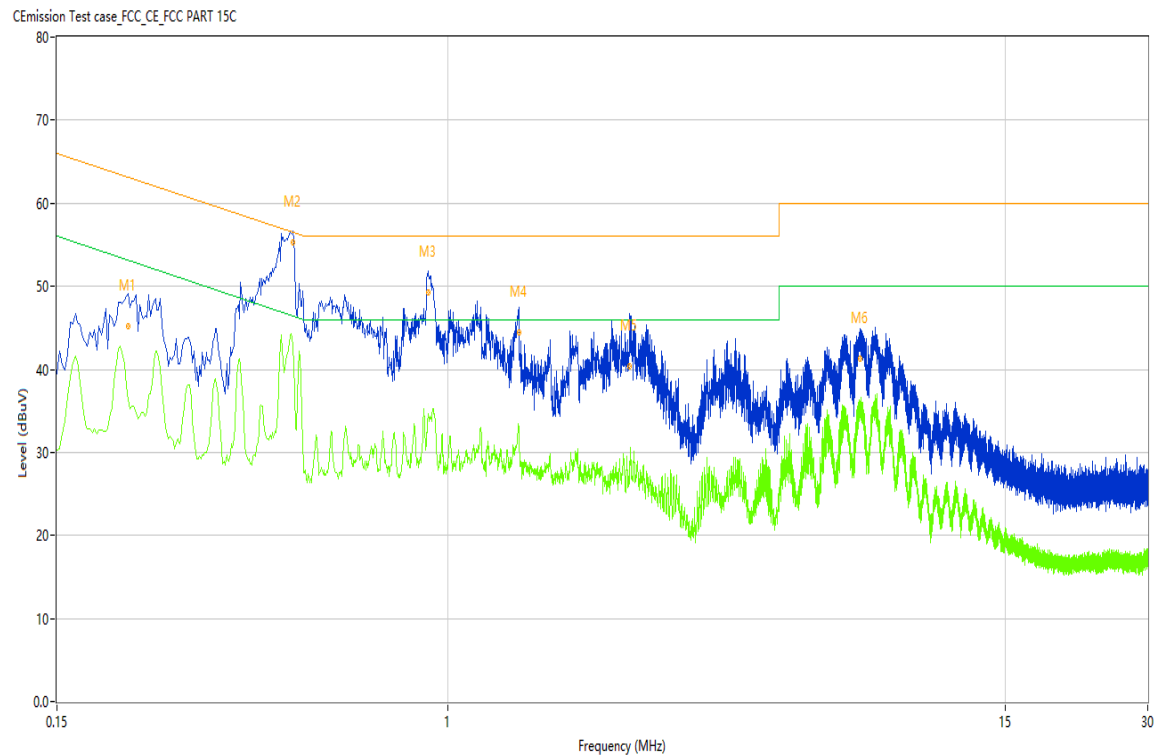
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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.212	50.67	10.04	63.13	12.46	Peak	N	Pass
1*	0.212	45.24	10.04	63.13	17.89	QP	N	Pass
1**	0.212	36.25	10.04	53.13	16.88	AV	N	Pass
2	0.472	56.82	10.07	56.48	-0.34	Peak	N	N/A
2*	0.472	55.30	10.07	56.48	1.18	QP	N	Pass
2**	0.472	42.81	10.07	46.48	3.67	AV	N	Pass
3	0.910	51.96	10.03	56.00	4.04	Peak	N	Pass
3*	0.910	49.22	10.03	56.00	6.78	QP	N	Pass
3**	0.910	34.58	10.03	46.00	11.42	AV	N	Pass
4	1.414	47.37	9.94	56.00	8.63	Peak	N	Pass
4*	1.414	44.46	9.94	56.00	11.54	QP	N	Pass
4**	1.414	33.00	9.94	46.00	13.00	AV	N	Pass
5	2.422	46.74	9.93	56.00	9.26	Peak	N	Pass
5*	2.422	40.42	9.93	56.00	15.58	QP	N	Pass
5**	2.422	28.97	9.93	46.00	17.03	AV	N	Pass
6	7.412	45.34	9.83	60.00	14.66	Peak	N	Pass
6*	7.412	41.25	9.83	60.00	18.75	QP	N	Pass
6**	7.412	36.09	9.83	50.00	13.91	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



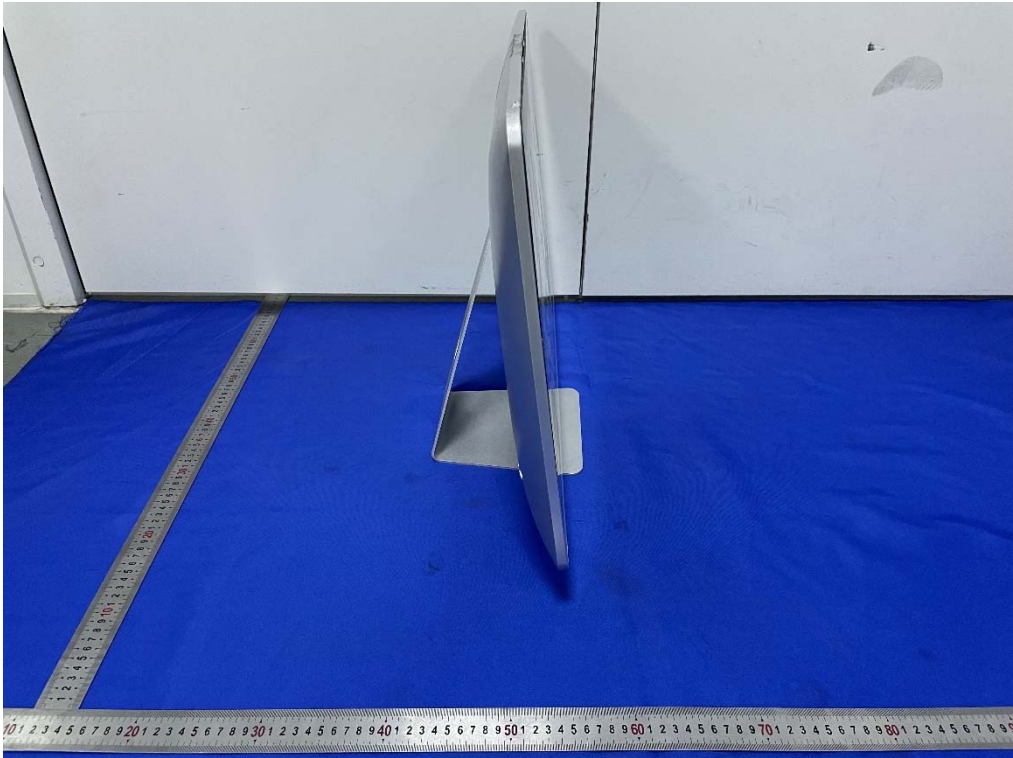
Rear of the sample

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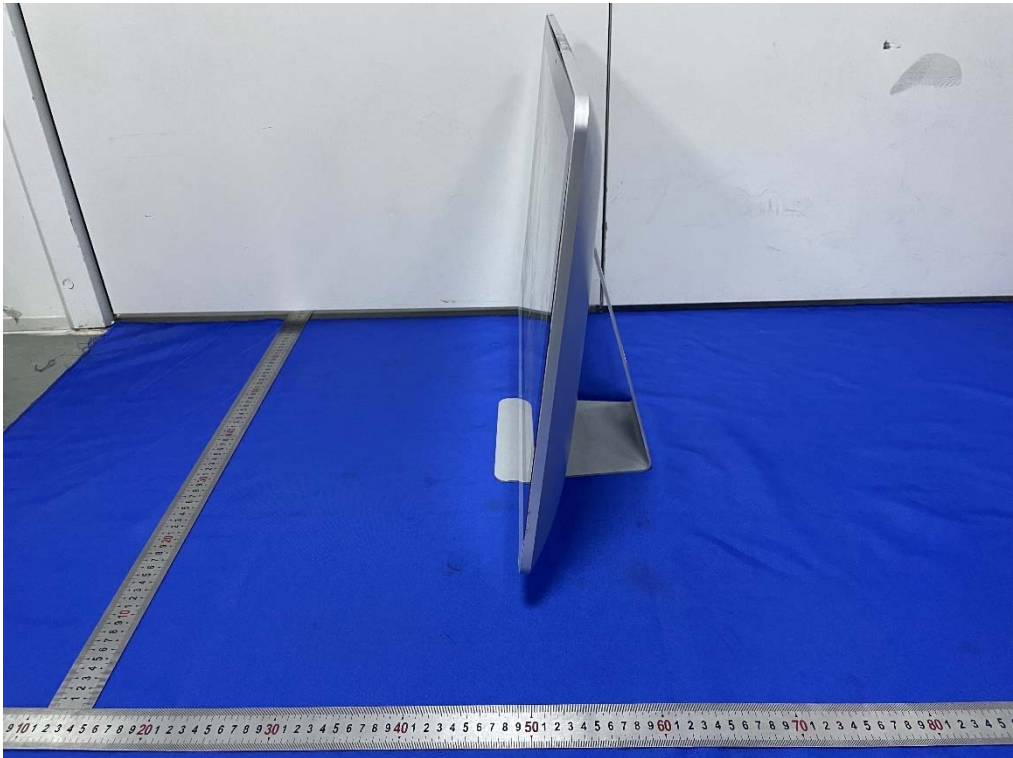
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Left of the sample



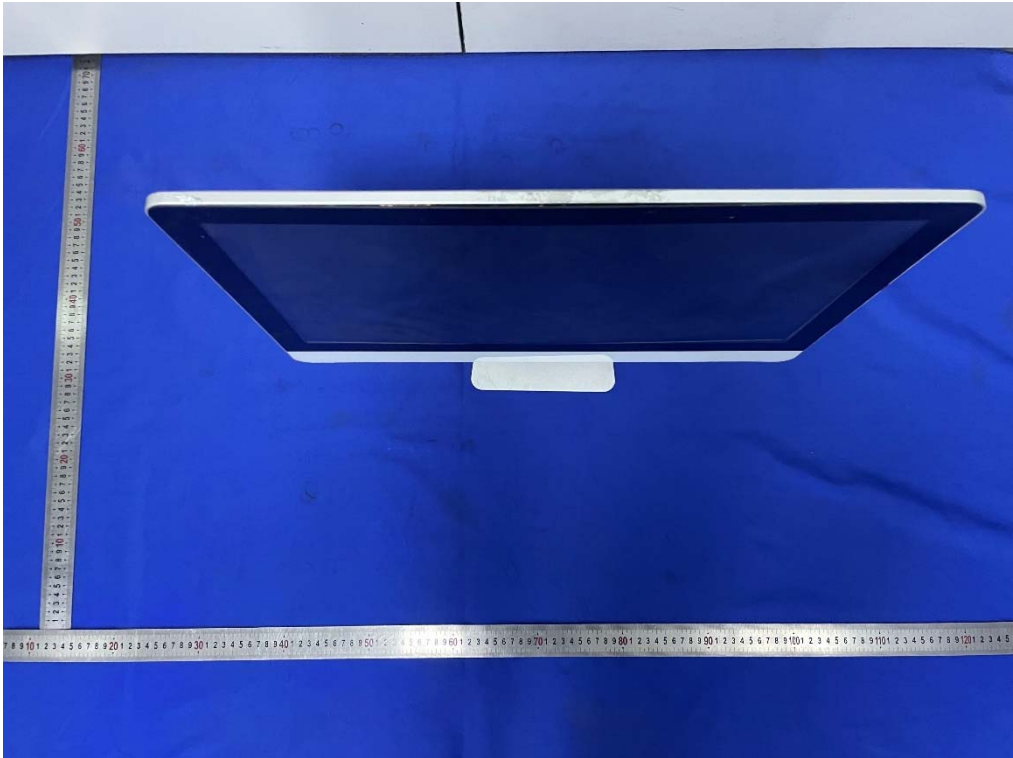
Right of the sample

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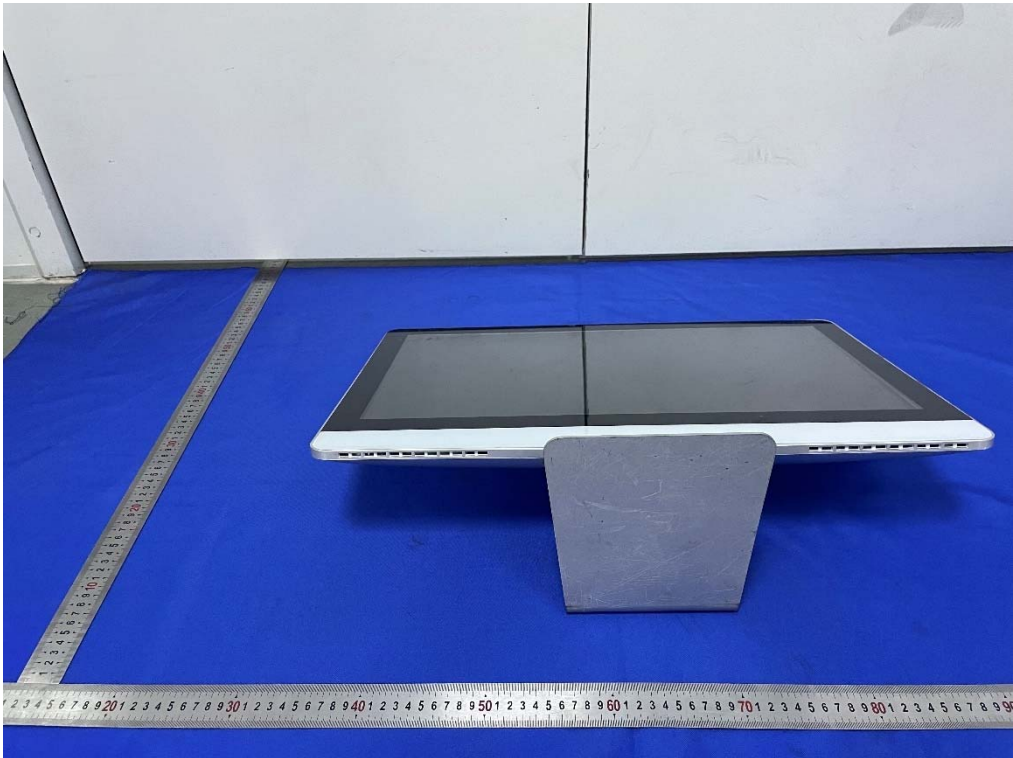
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Top of the sample



Bottom of the sample

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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



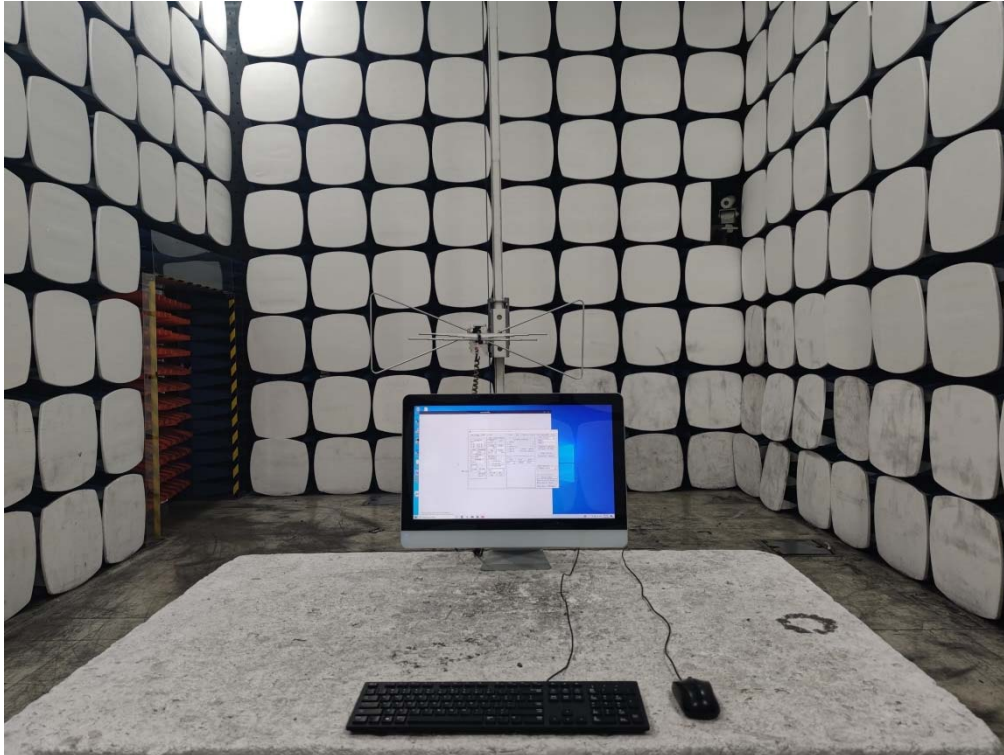
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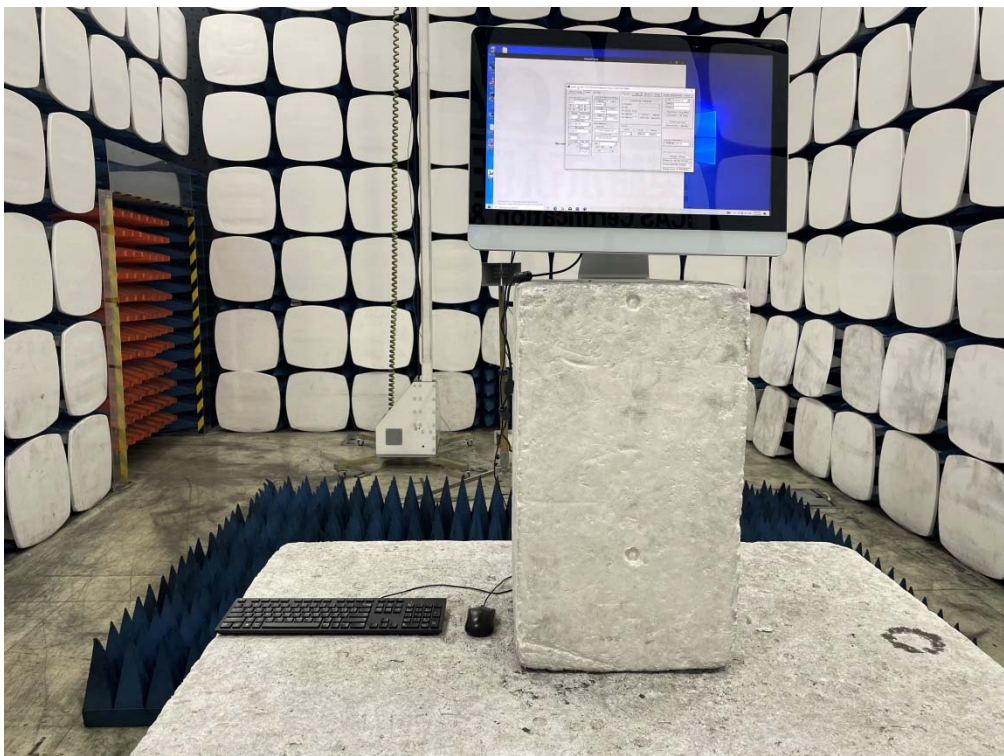
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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report