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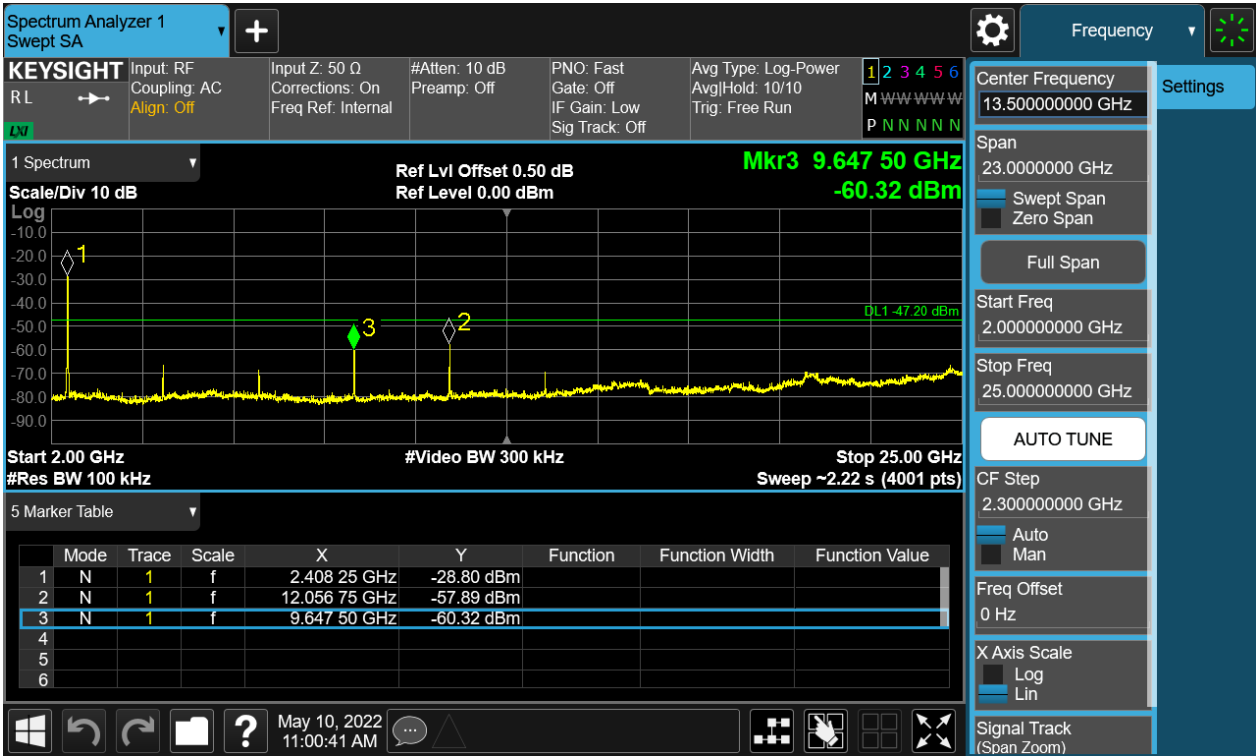
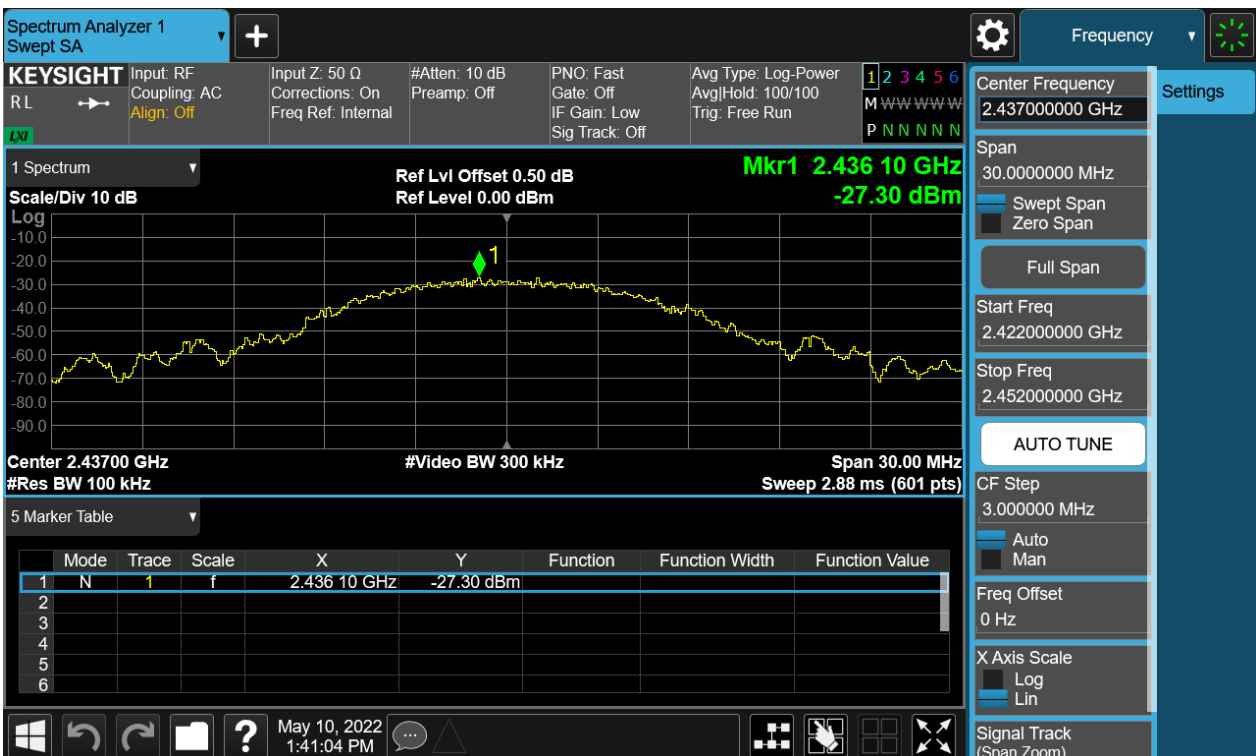


Figure 31: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2437MHz Carrier Level



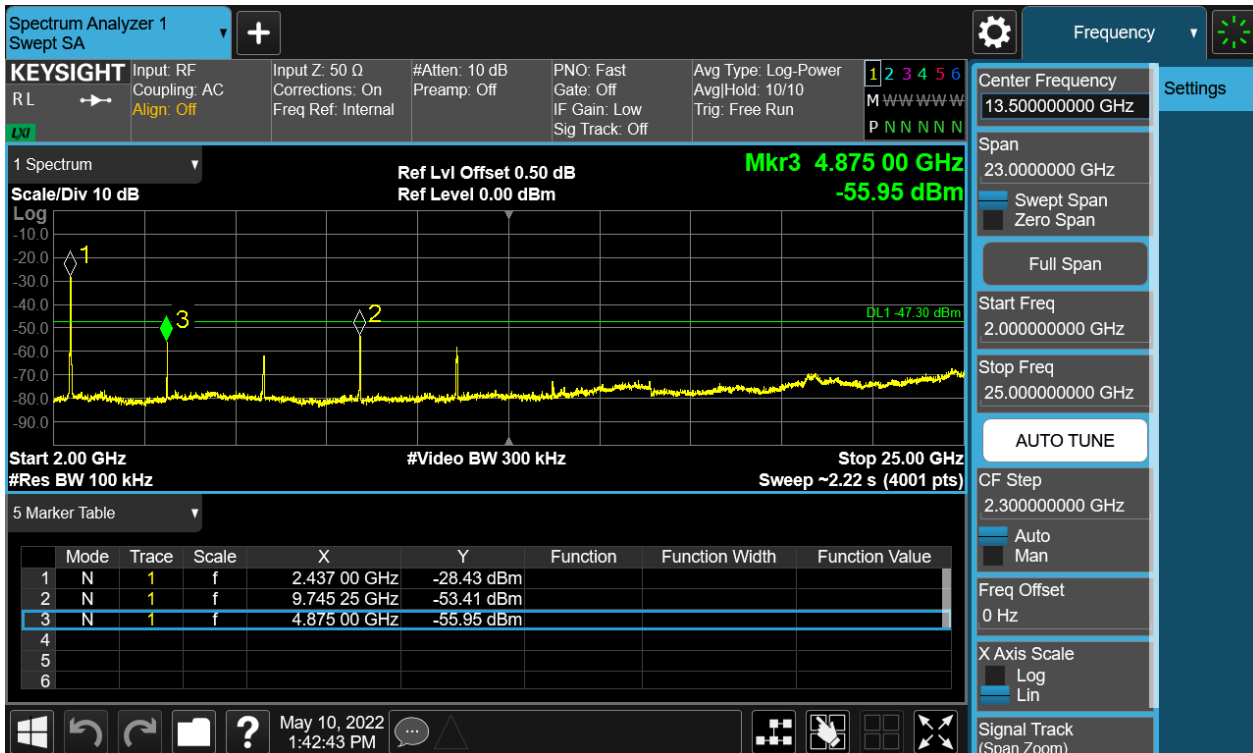
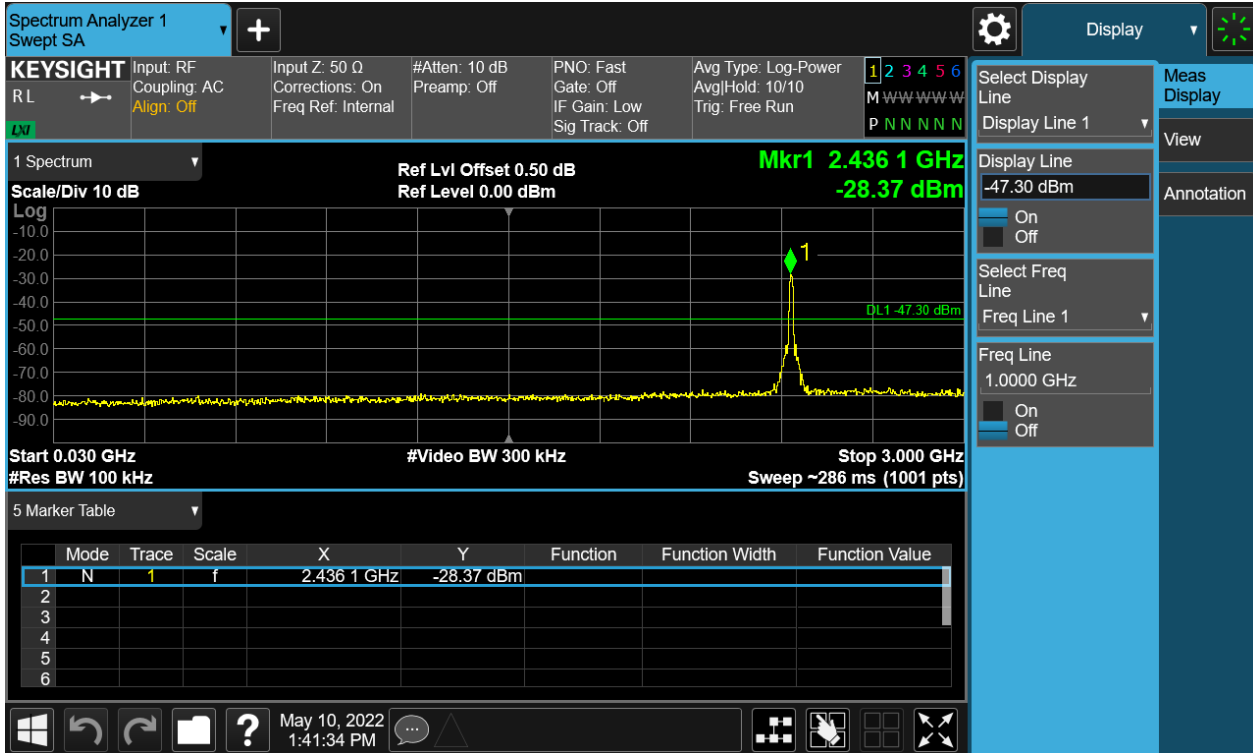
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Conducted spurious emissions 30MHz-25GHz



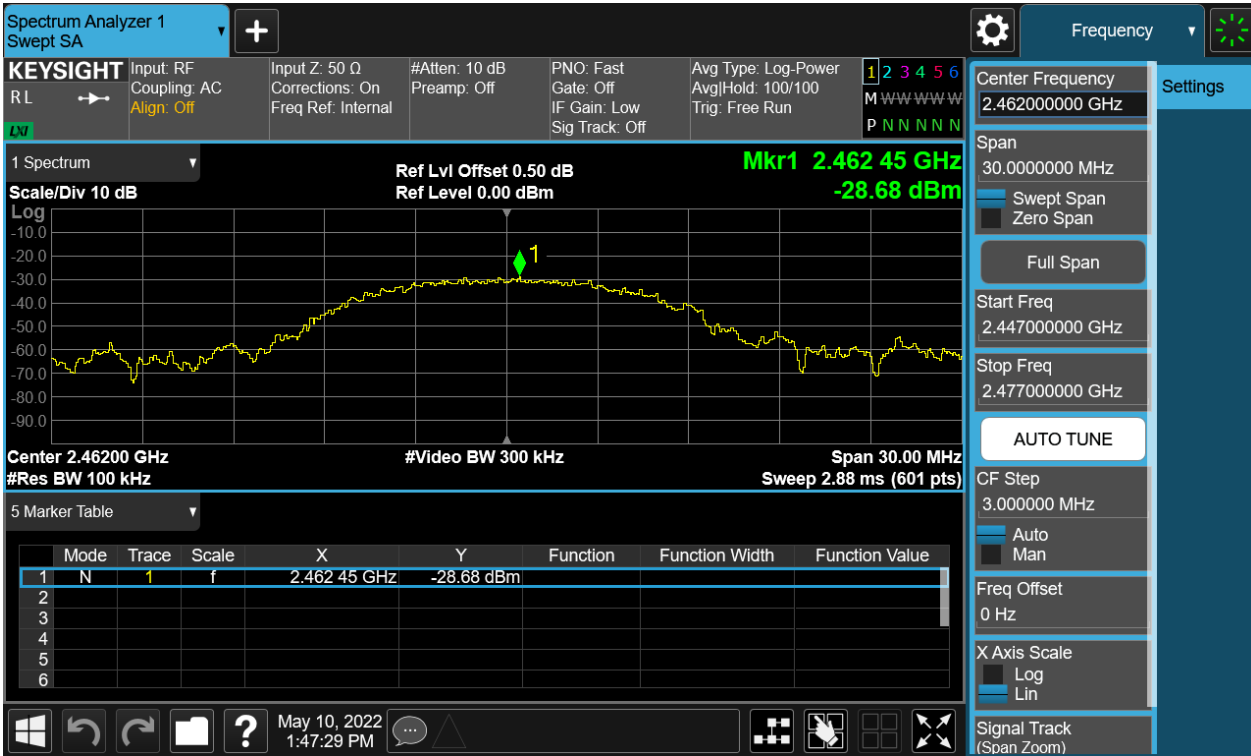
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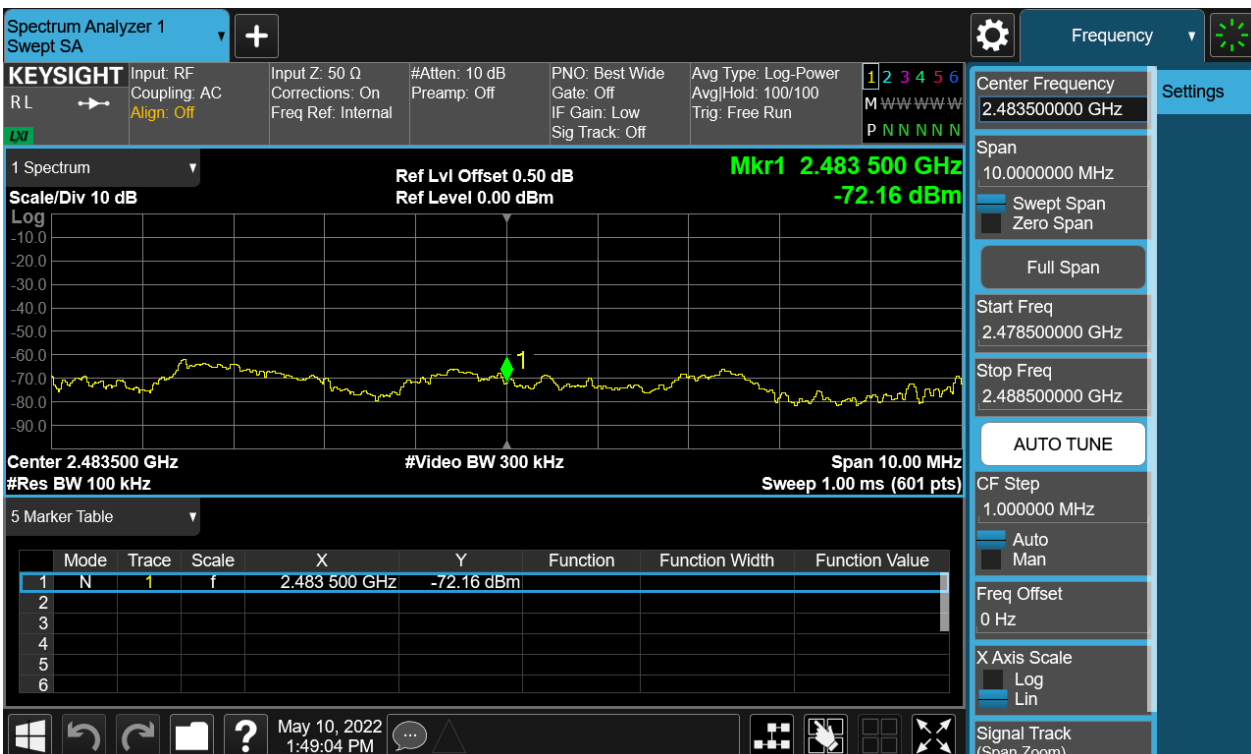
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Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2462MHz Carrier Level



Band Edge



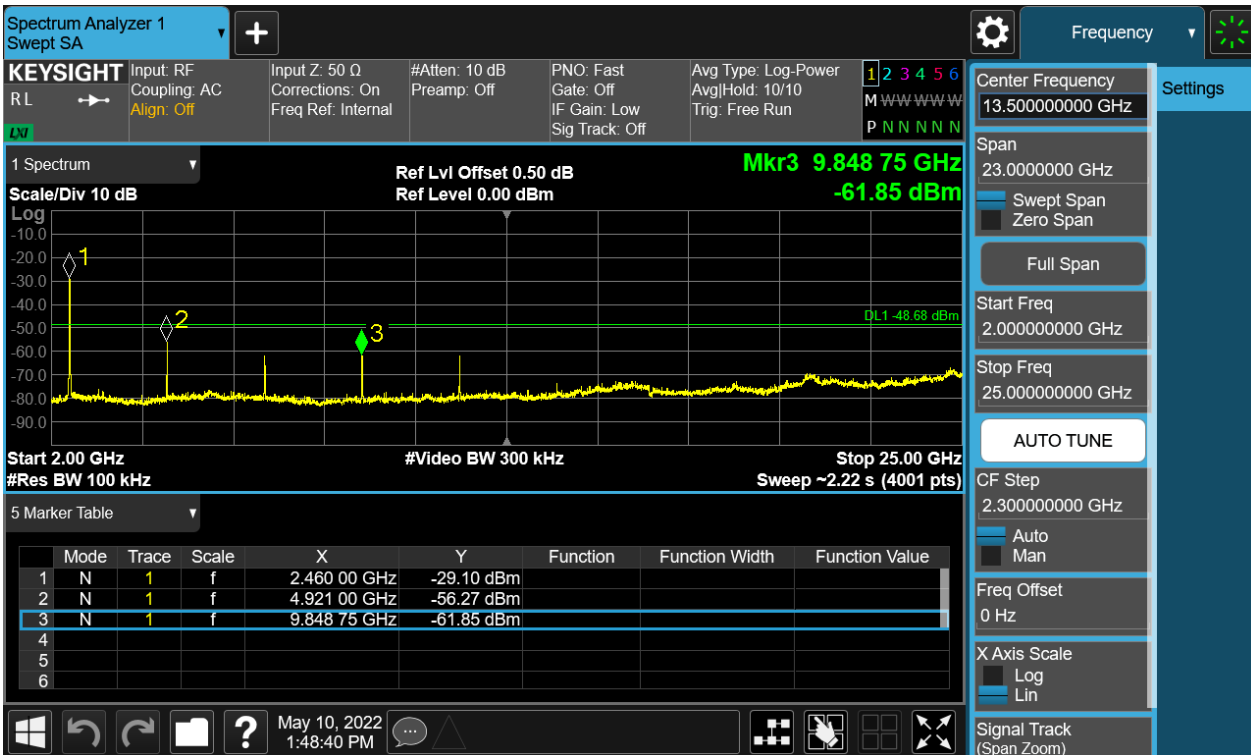
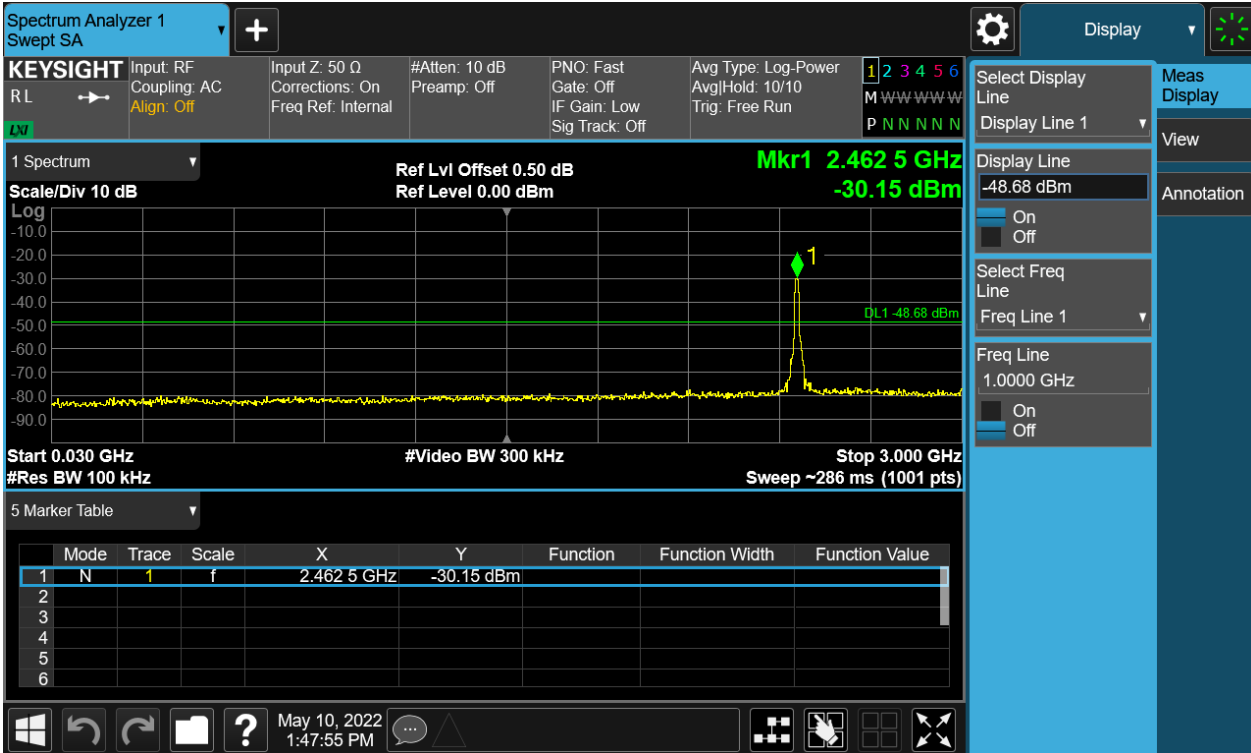
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Conducted spurious emissions 30MHz-25GHz



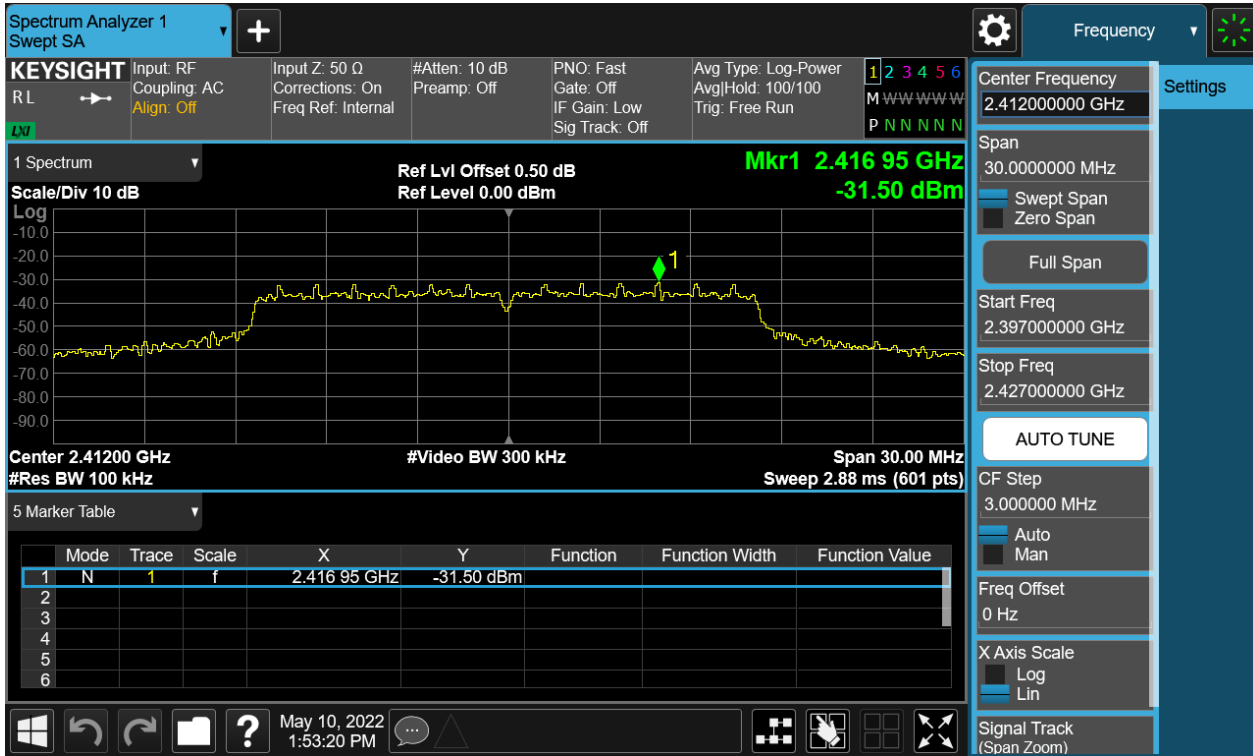
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Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



Band Edge



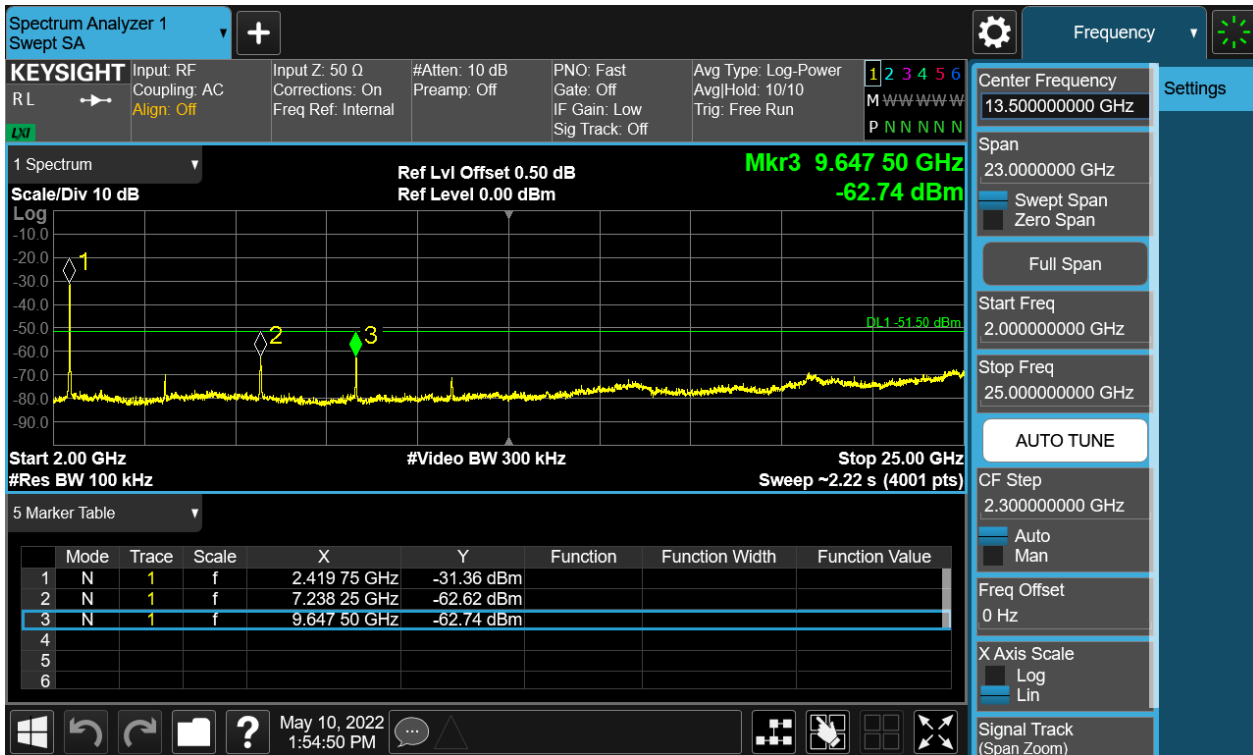
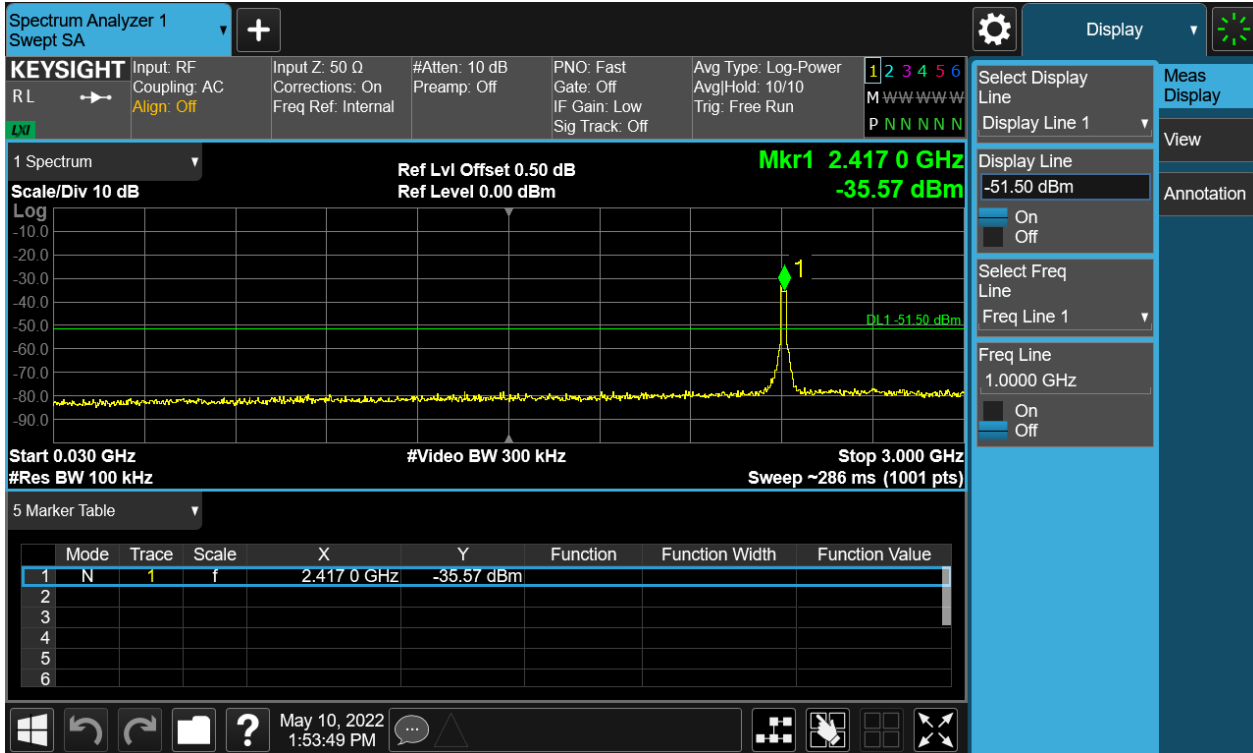
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Conducted spurious emissions 30MHz-25GHz



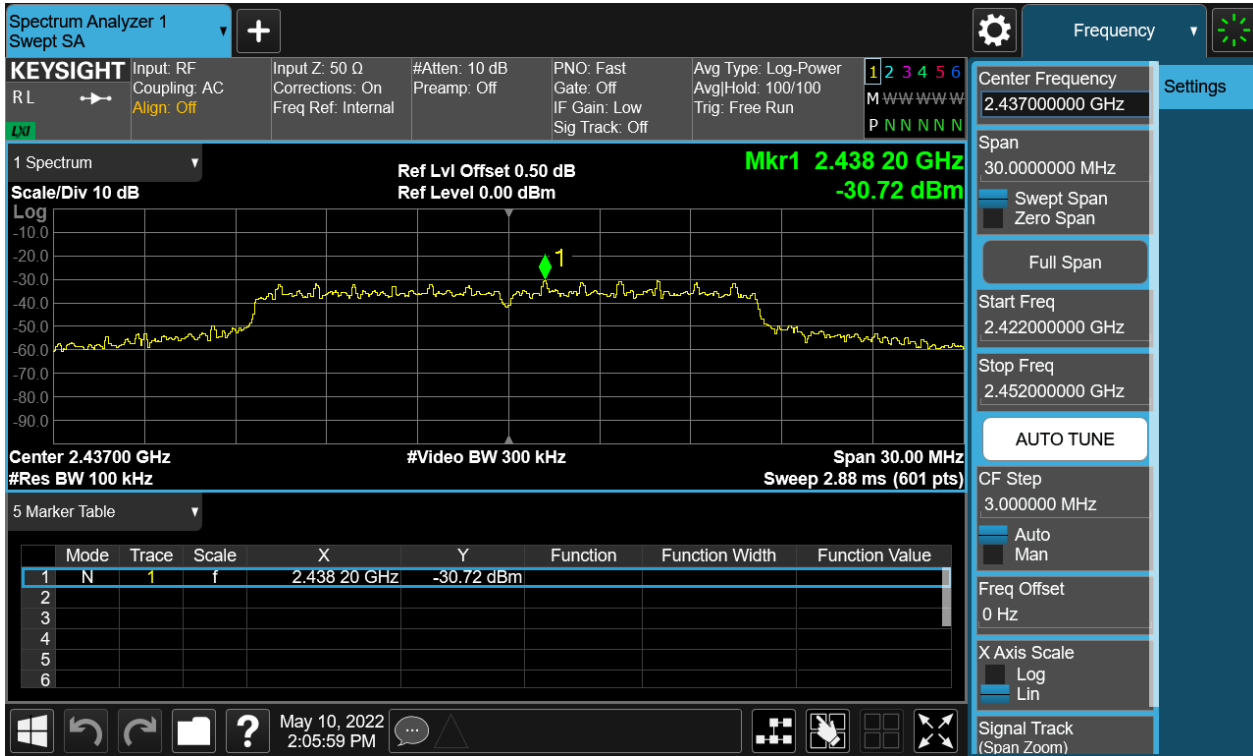
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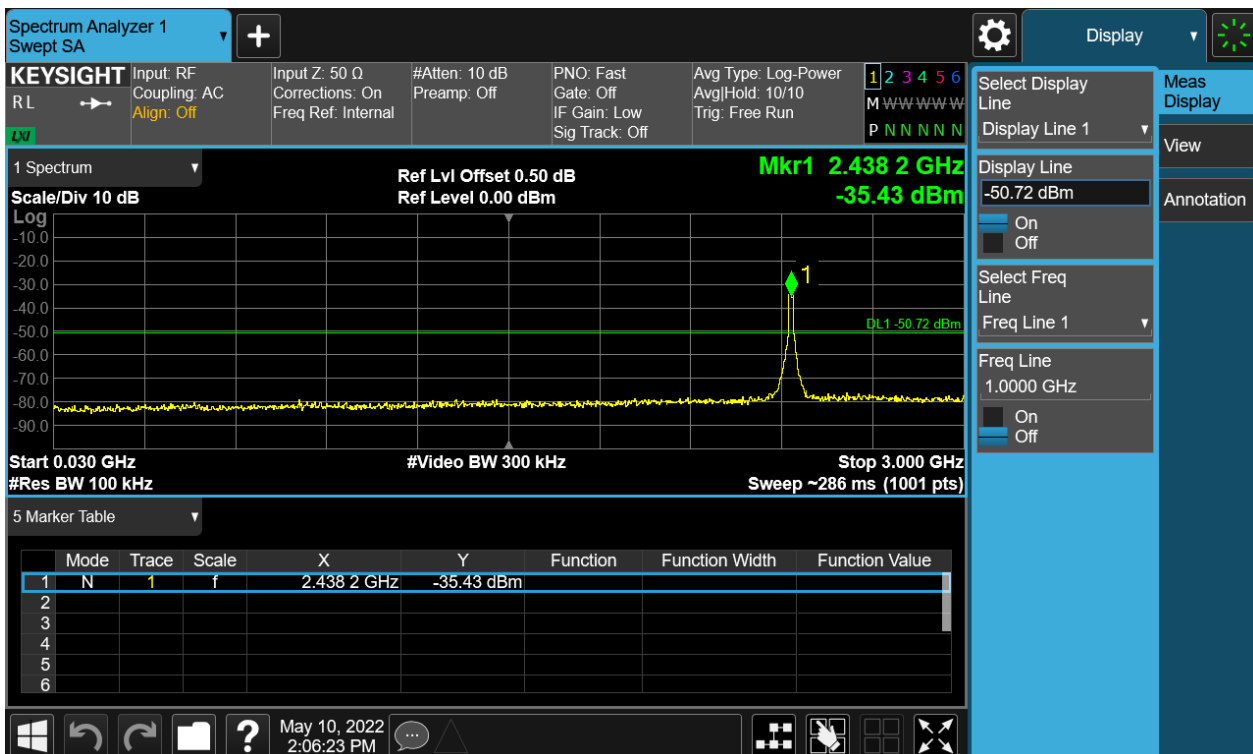
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Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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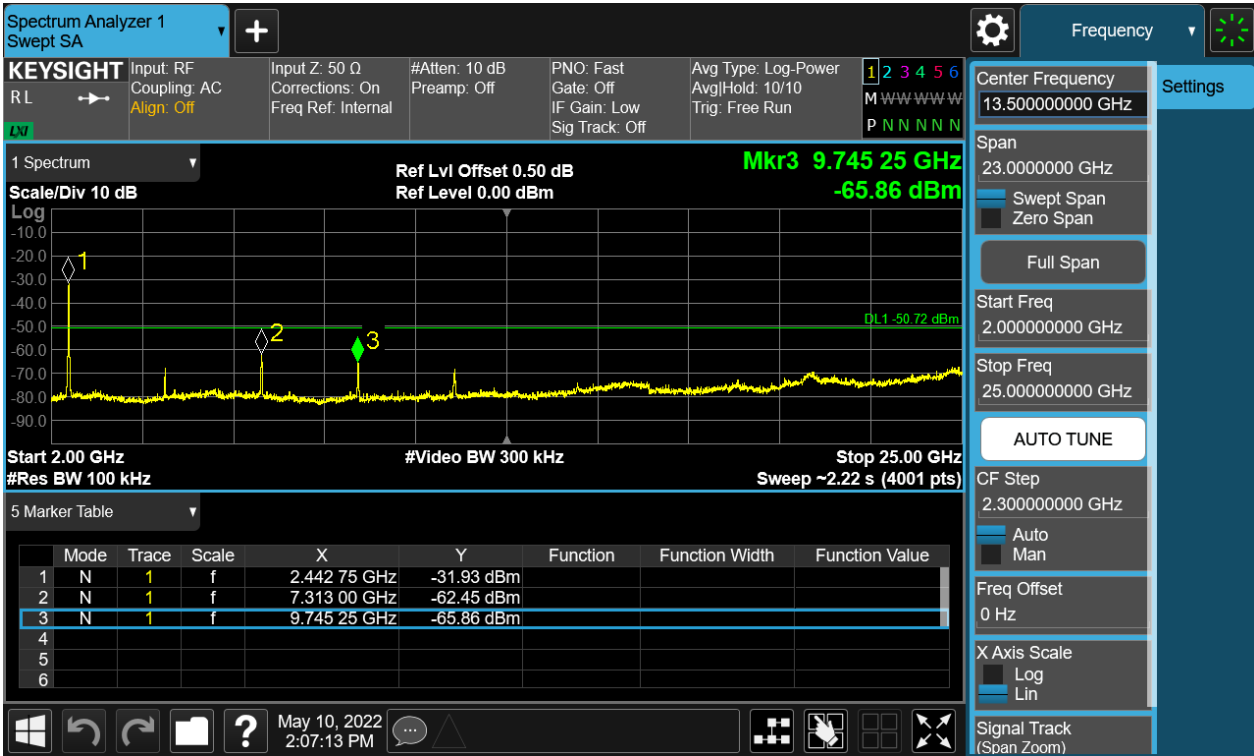
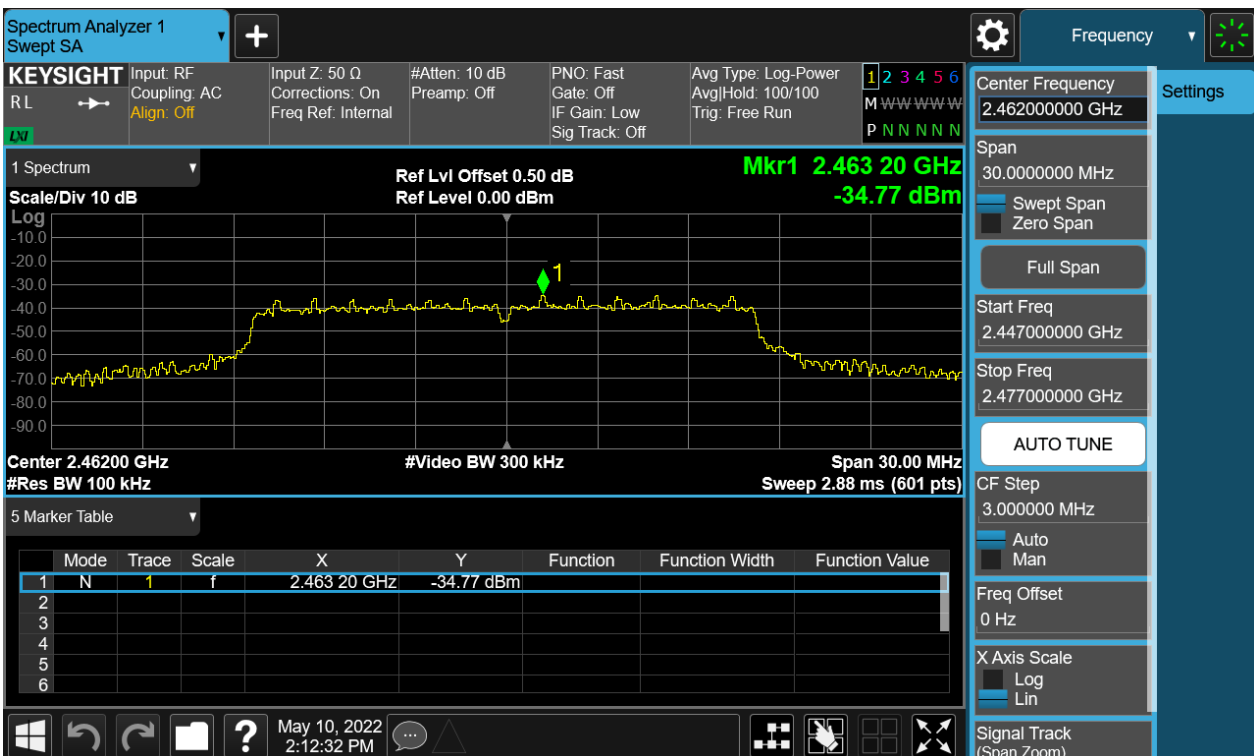


Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



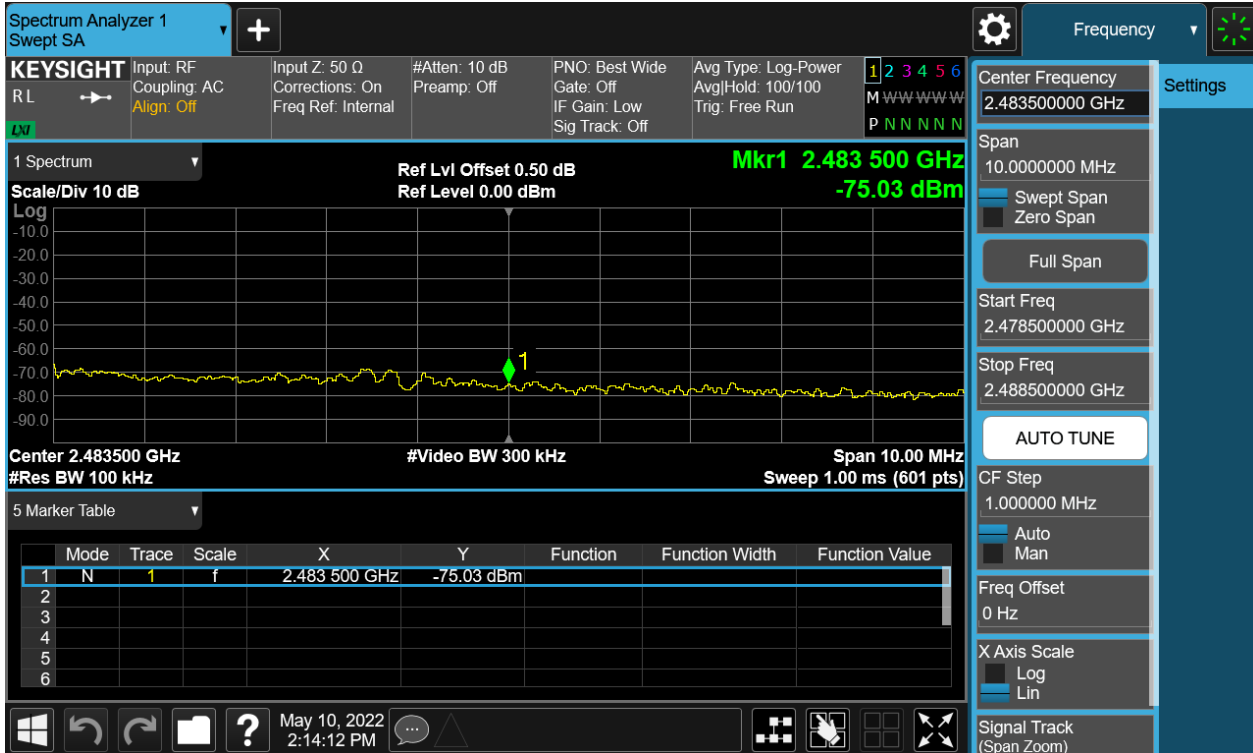
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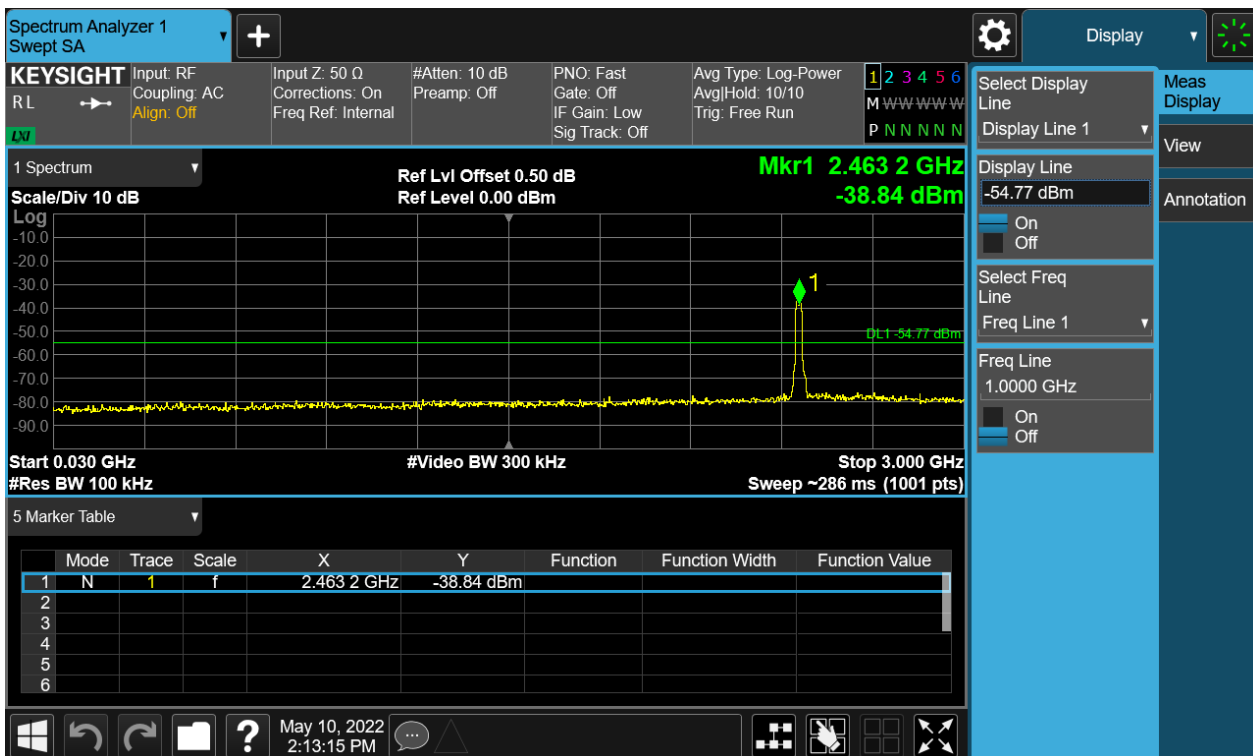
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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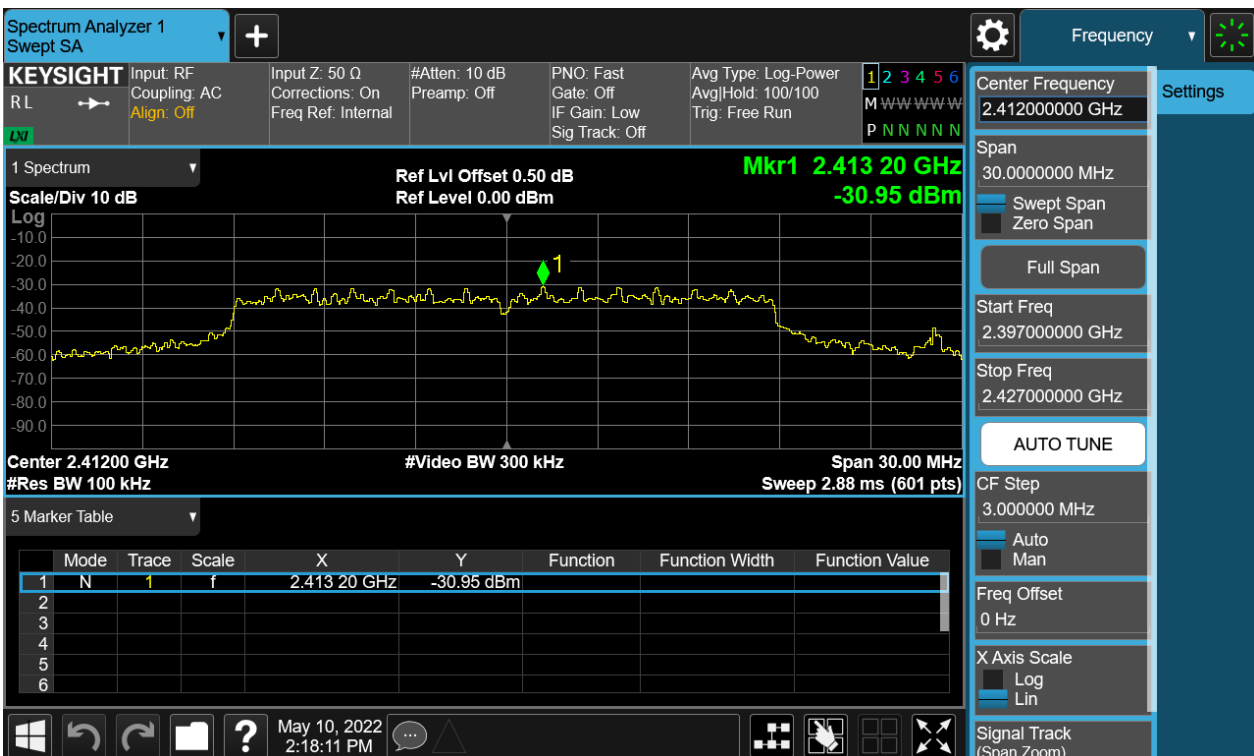
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



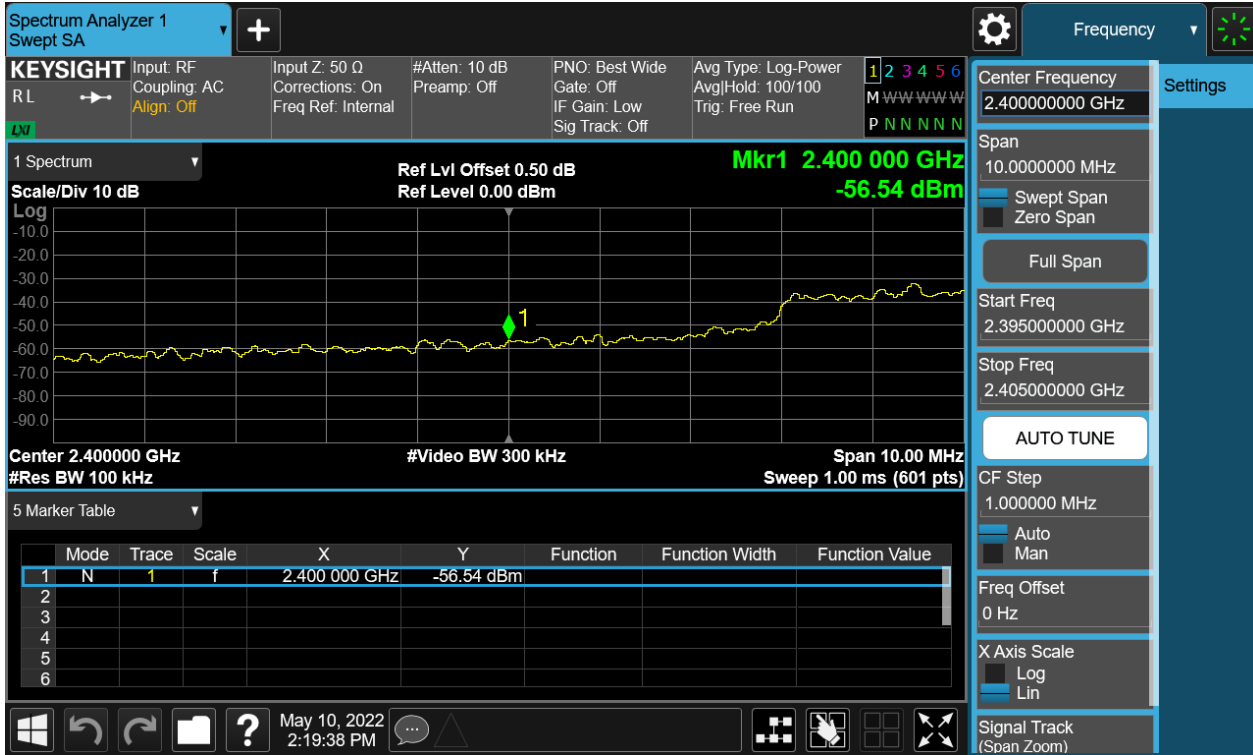
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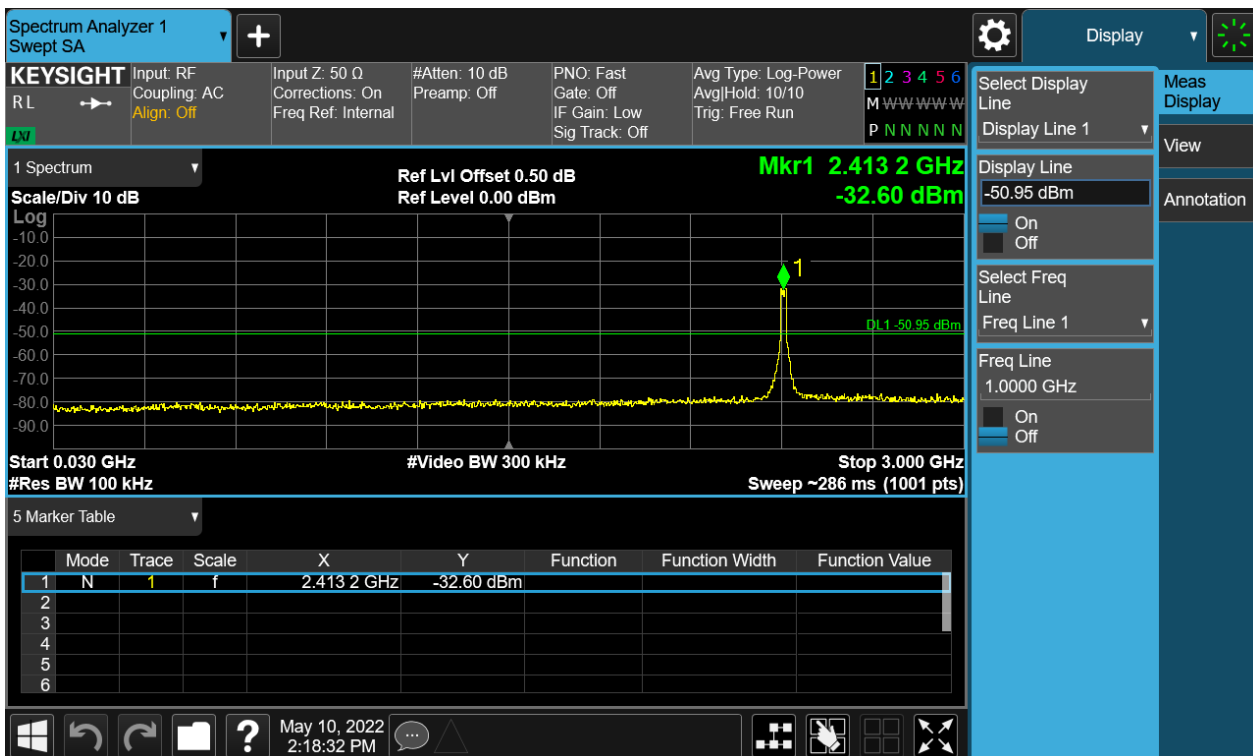
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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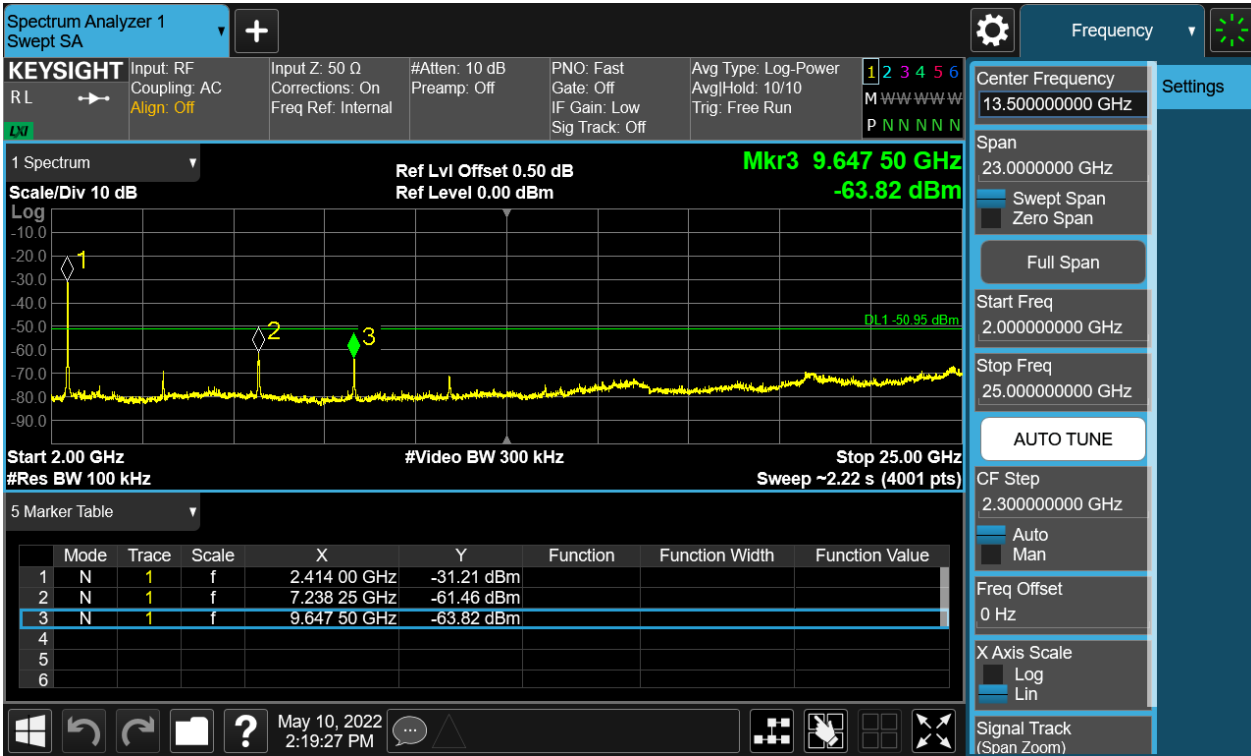
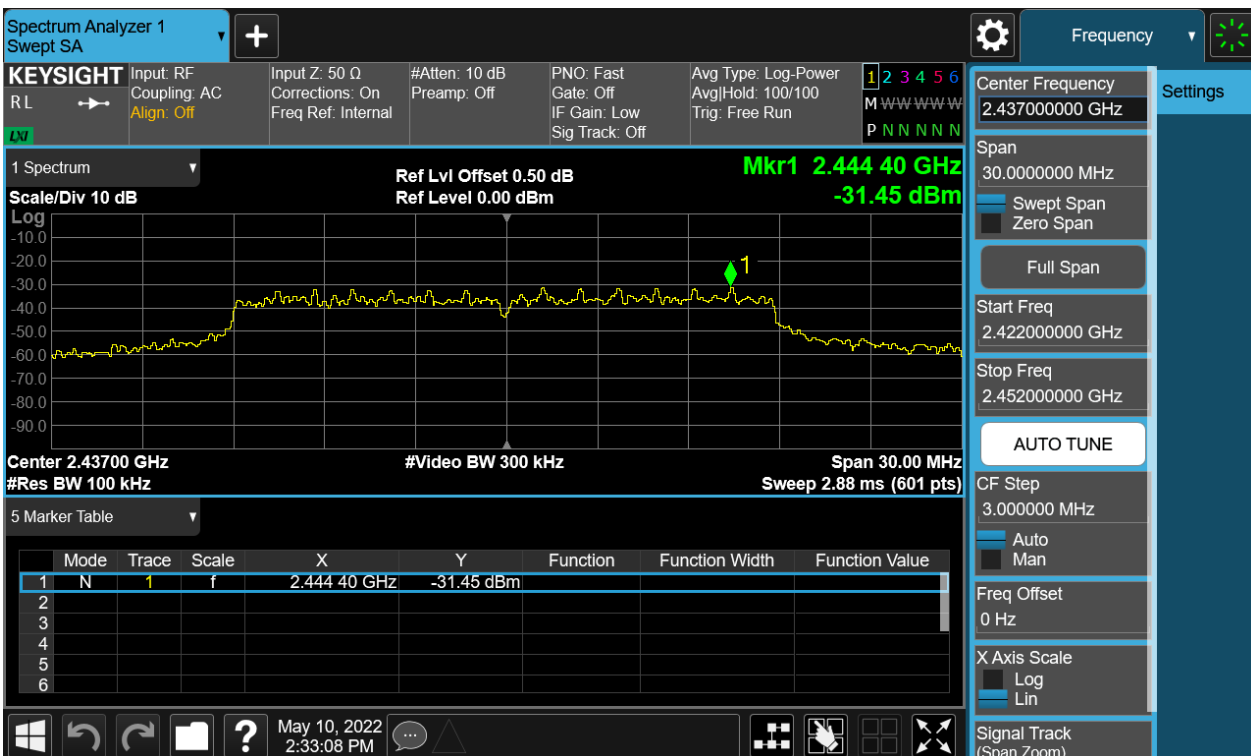


Figure 37: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



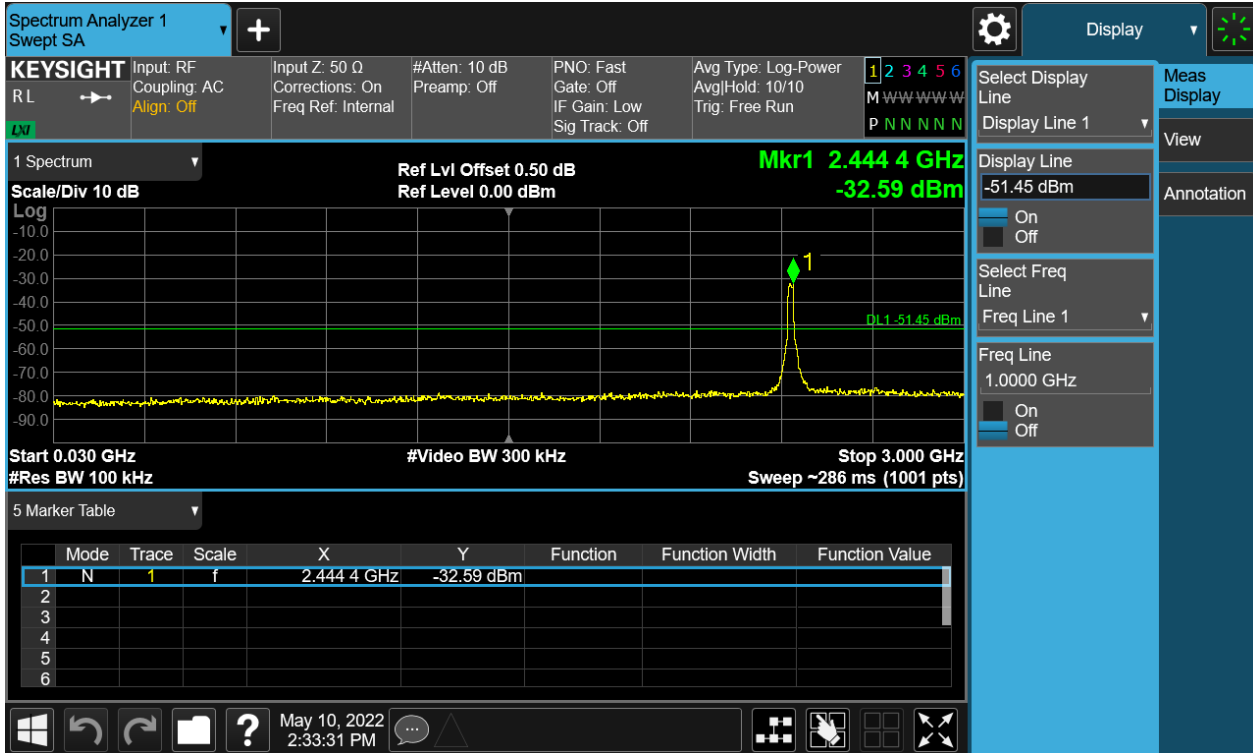
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Conducted spurious emissions 30MHz-25GHz



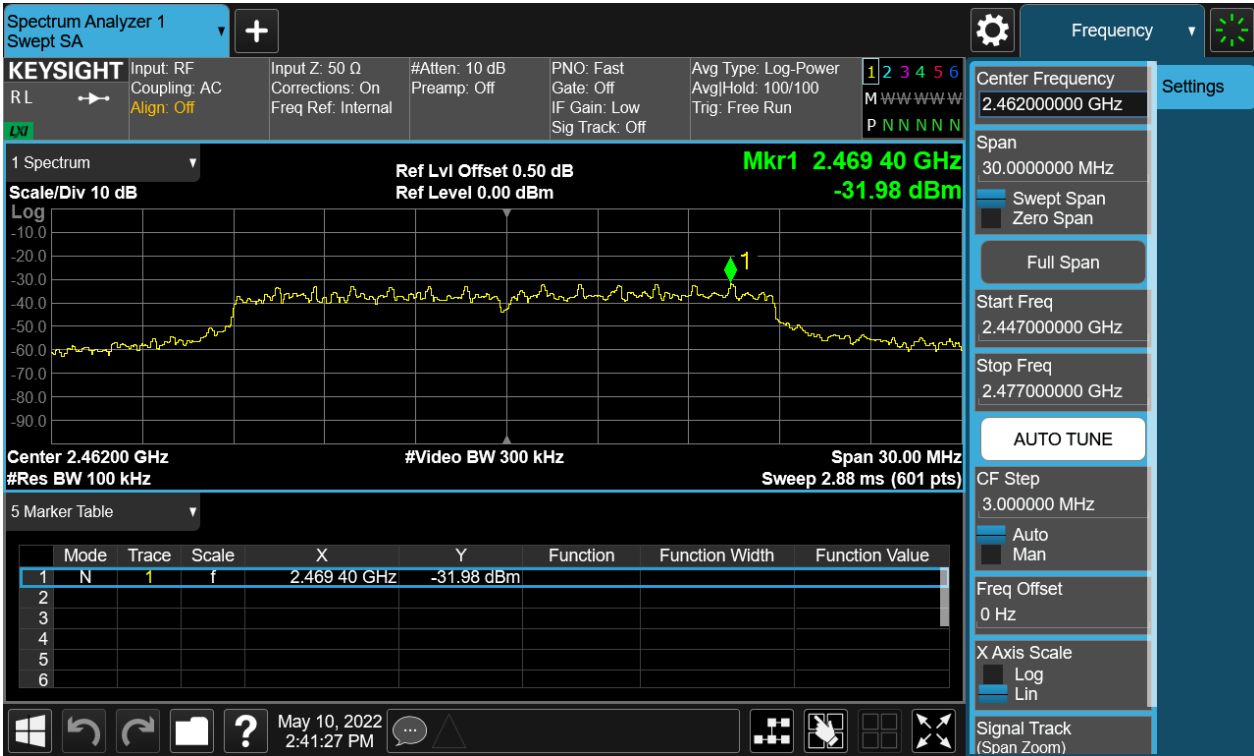
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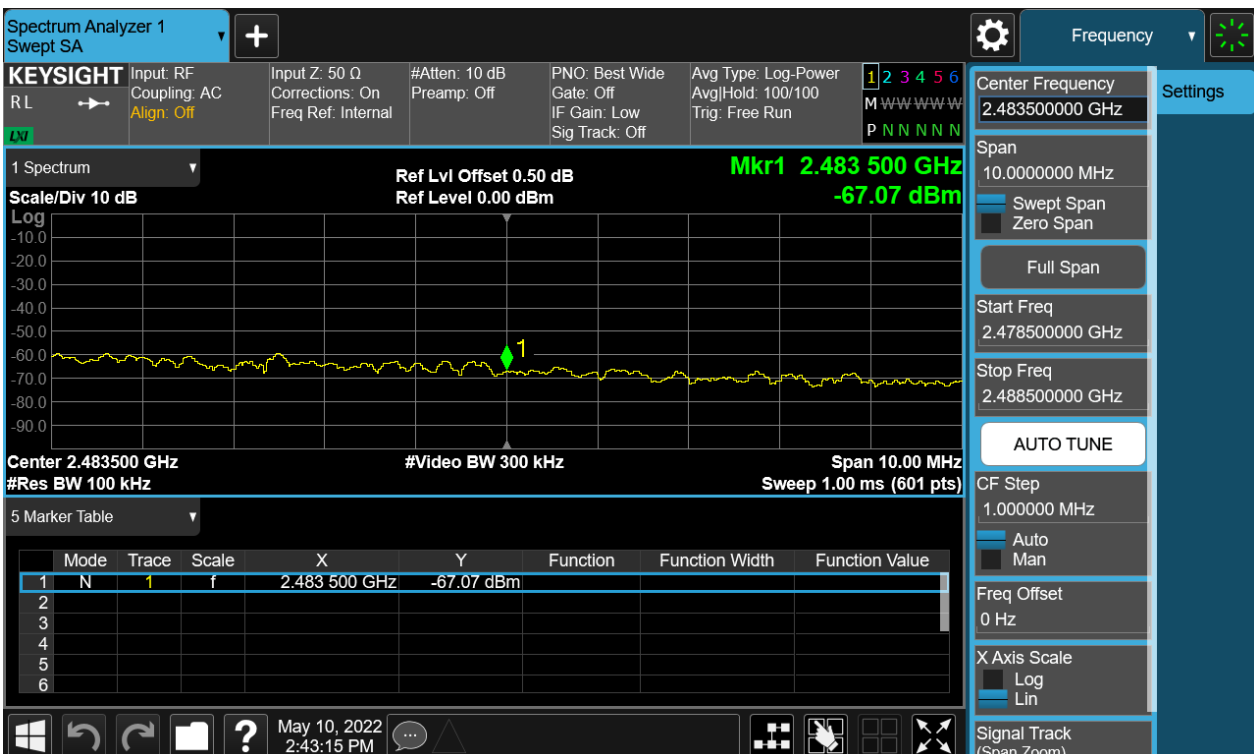
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Figure 38: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



Band Edge



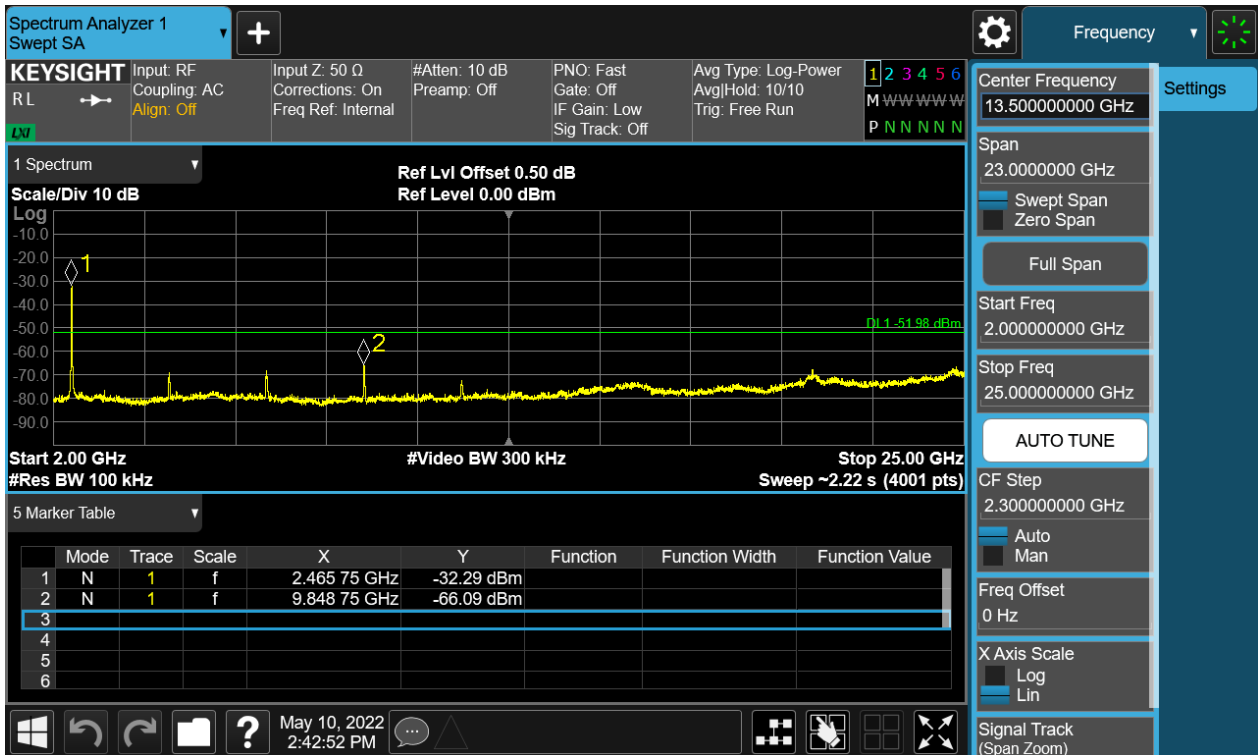
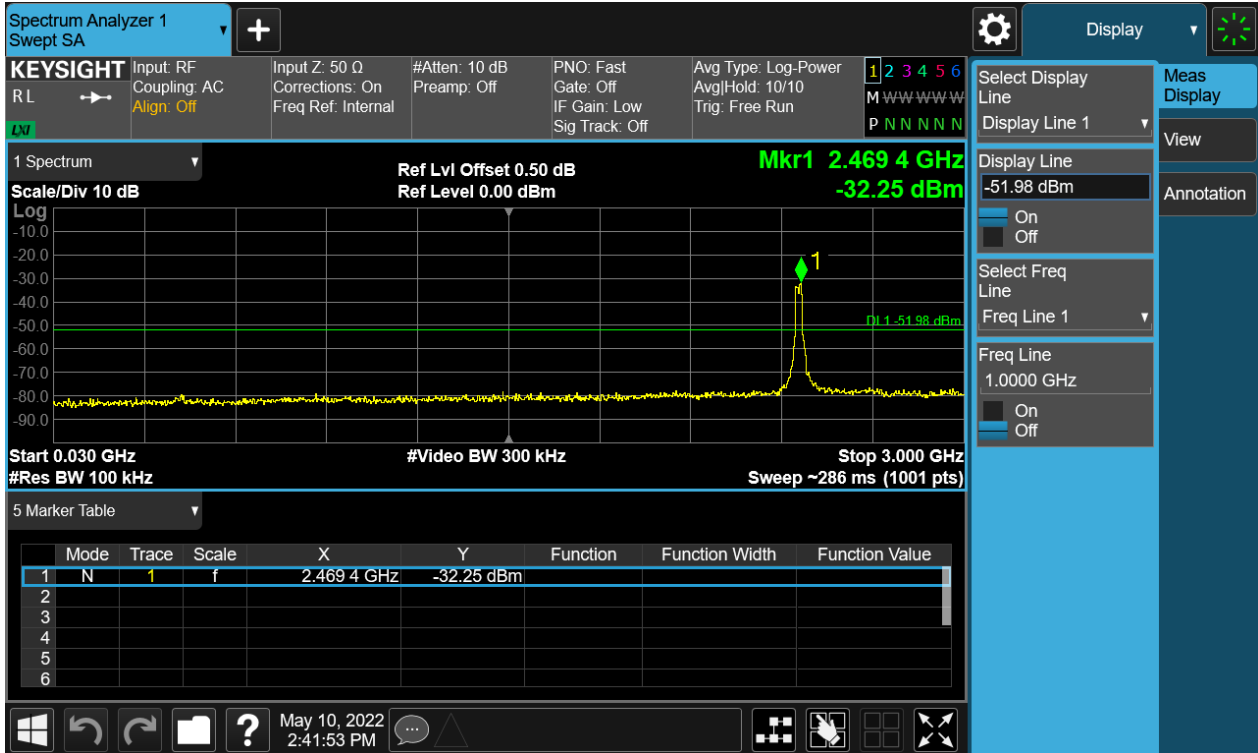
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Conducted spurious emissions 30MHz-25GHz



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4.1.6 Radiated Spurious Emission

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.205, 15.209
RSS-247 5.5
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High
Operation Mode : A
Ambient temperature : 19.8°C
Relative humidity : 50%

Notes

Test plots please refer to the annex document "SHE21110074-02AE 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. The EUT is working in the Normal link mode below 1 GHz.*
- 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-247 5.5
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1
Ambient temperature : 19.8°C
Relative humidity : 50%

Notes:

1. Test plots please refer to the annex document "SHE21110074-02AE 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
Kind of test site : Shielded room

Test setup

Input Voltage : AC 120V, 60Hz; AC 240V, 50Hz
Operation Mode : A
Earthing : Not Connected
Ambient temperature : 23°C
Relative humidity : 51%

For details refer to following test plot.

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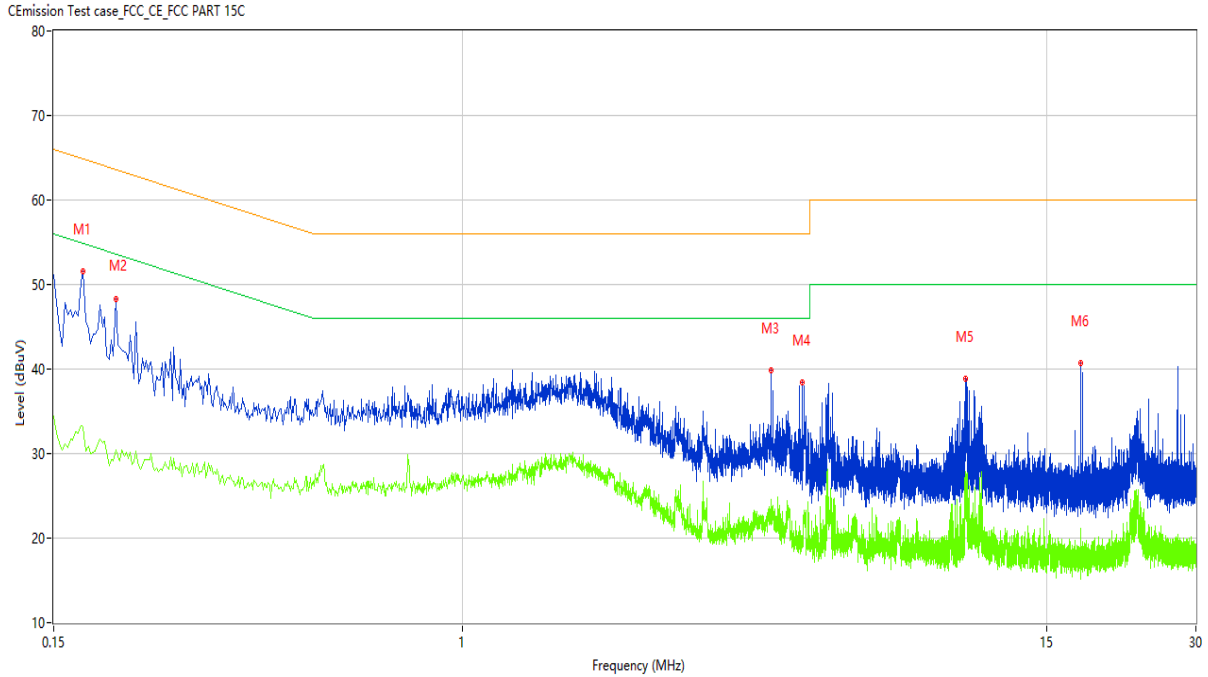
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Note: The all configurations were tested respectively, but only the worst configuration shown here.

Figure 39: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.172	54.62	10.25	64.86	-10.24	Peak	L	Pass
1*	0.172	46.79	10.25	64.86	-18.07	QP	L	Pass
1**	0.172	33.10	10.25	54.86	-21.76	AV	L	Pass
2	0.200	50.14	10.23	63.61	-13.47	Peak	L	Pass
2*	0.200	42.85	10.23	63.61	-20.76	QP	L	Pass
2**	0.200	30.48	10.23	53.61	-23.13	AV	L	Pass
3	4.178	32.18	10.21	56.00	-23.82	Peak	L	Pass
3*	4.178	27.12	10.21	56.00	-28.88	QP	L	Pass
3**	4.178	24.60	10.21	46.00	-21.40	AV	L	Pass
4	4.836	33.07	10.25	56.00	-22.93	Peak	L	Pass
4*	4.836	27.02	10.25	56.00	-28.98	QP	L	Pass
4**	4.836	20.21	10.25	46.00	-25.79	AV	L	Pass
5	10.286	37.60	10.37	60.00	-22.40	Peak	L	Pass
5*	10.286	30.71	10.37	60.00	-29.29	QP	L	Pass
5**	10.286	27.28	10.37	50.00	-22.72	AV	L	Pass
6	17.592	23.39	10.71	60.00	-36.61	Peak	L	Pass
6*	17.592	17.09	10.71	60.00	-42.91	QP	L	Pass
6**	17.592	21.19	10.71	50.00	-28.81	AV	L	Pass

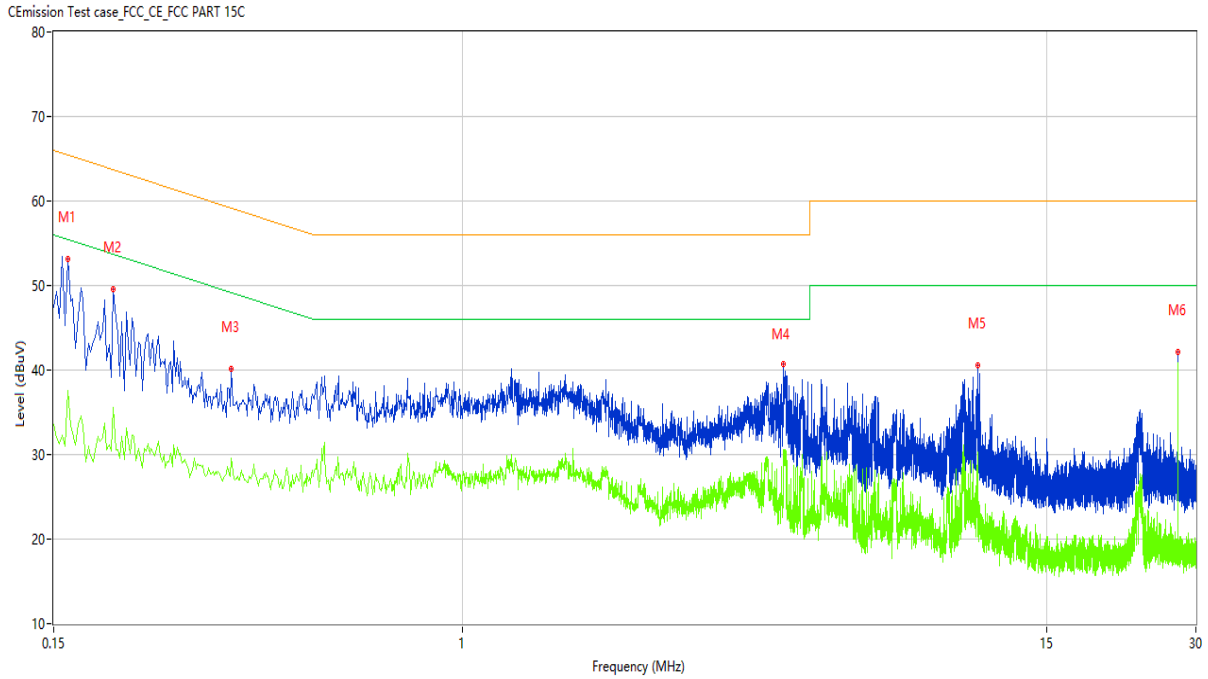
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Figure 40: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.160	57.78	10.26	65.46	-7.68	Peak	N	Pass
1*	0.160	51.13	10.26	65.46	-14.33	QP	N	Pass
1**	0.160	37.55	10.26	55.46	-17.91	AV	N	Pass
2	0.198	50.35	10.23	63.69	-13.34	Peak	N	Pass
2*	0.198	44.02	10.23	63.69	-19.67	QP	N	Pass
2**	0.198	35.58	10.23	53.69	-18.11	AV	N	Pass
3	0.342	39.86	10.23	59.15	-19.29	Peak	N	Pass
3*	0.342	31.98	10.23	59.15	-27.17	QP	N	Pass
3**	0.342	29.63	10.23	49.15	-19.52	AV	N	Pass
4	4.430	40.10	10.23	56.00	-15.90	Peak	N	Pass
4*	4.430	34.66	10.23	56.00	-21.34	QP	N	Pass
4**	4.430	30.23	10.23	46.00	-15.77	AV	N	Pass
5	10.914	40.91	10.39	60.00	-19.09	Peak	N	Pass
5*	10.914	31.73	10.39	60.00	-28.27	QP	N	Pass
5**	10.914	29.55	10.39	50.00	-20.45	AV	N	Pass
6	27.646	26.62	11.05	60.00	-33.38	Peak	N	Pass
6*	27.646	18.77	11.05	60.00	-41.23	QP	N	Pass
6**	27.646	40.83	11.05	50.00	-9.17	AV	N	Pass

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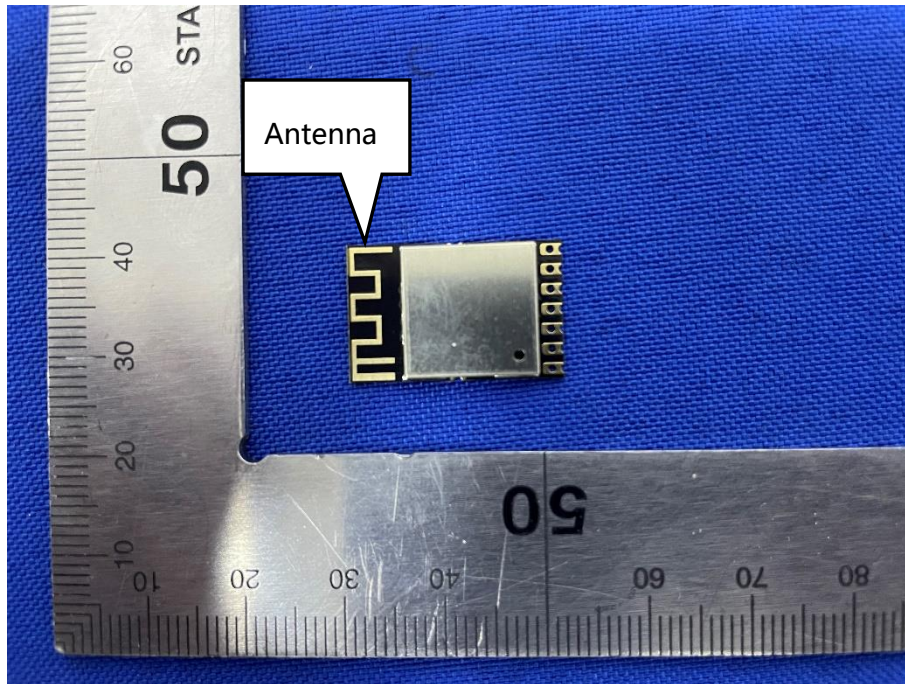
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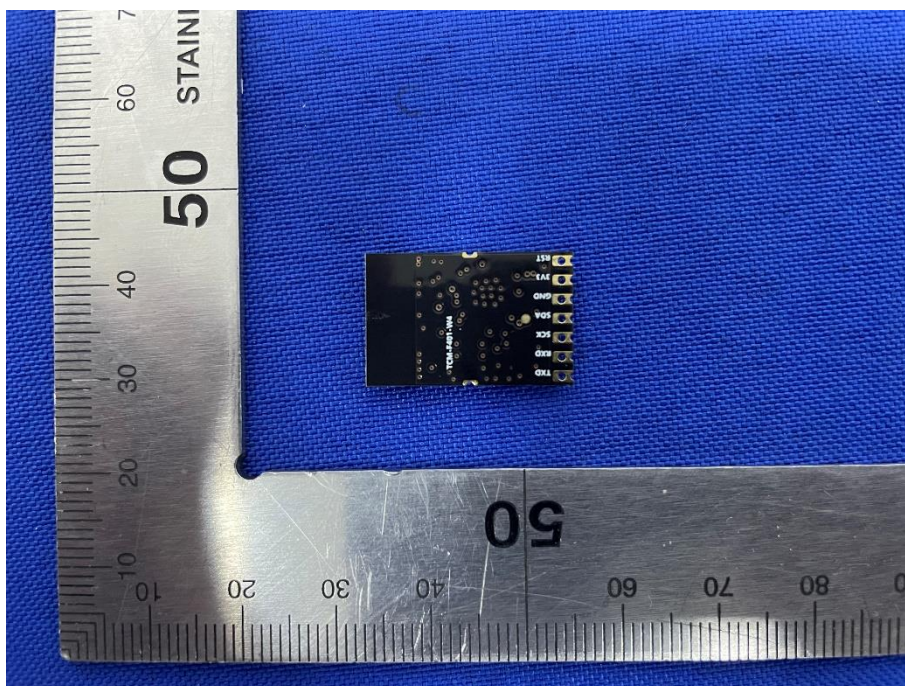
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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



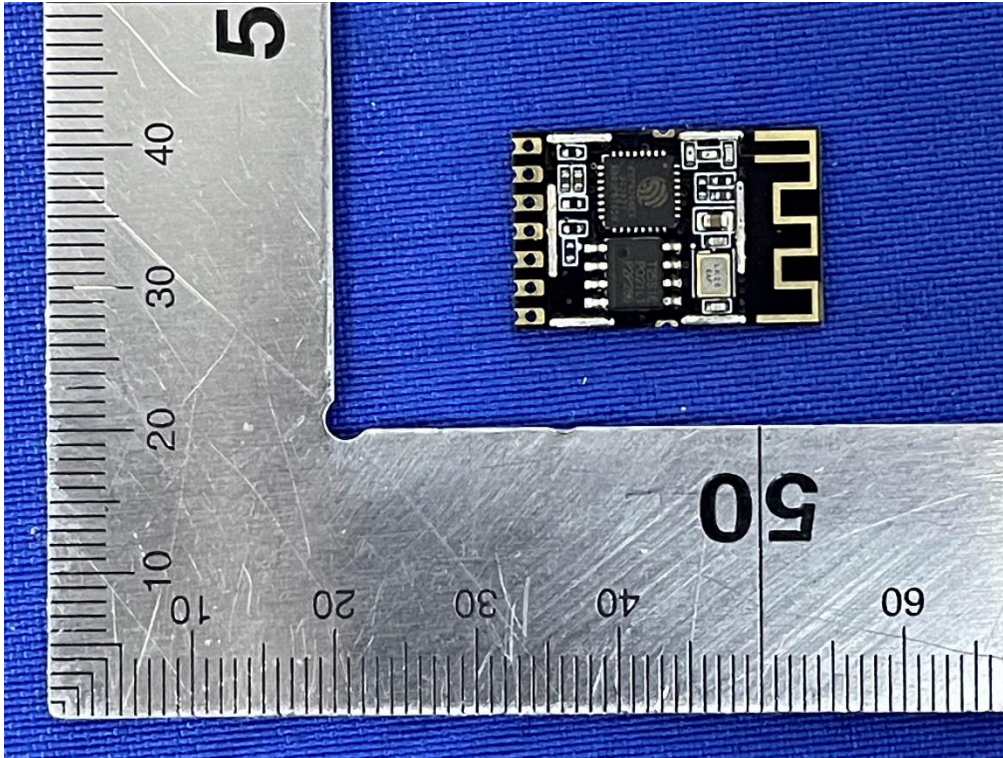
Rear of the sample

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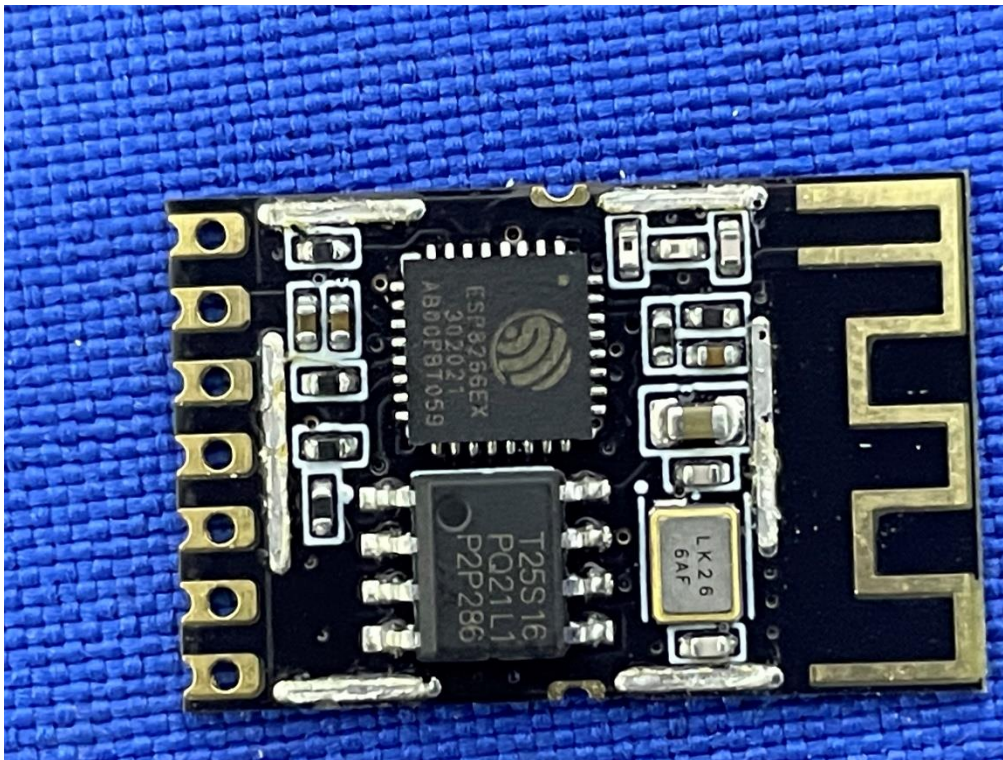
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Remove shield cover of the sample-1



Remove shield cover of the sample-2

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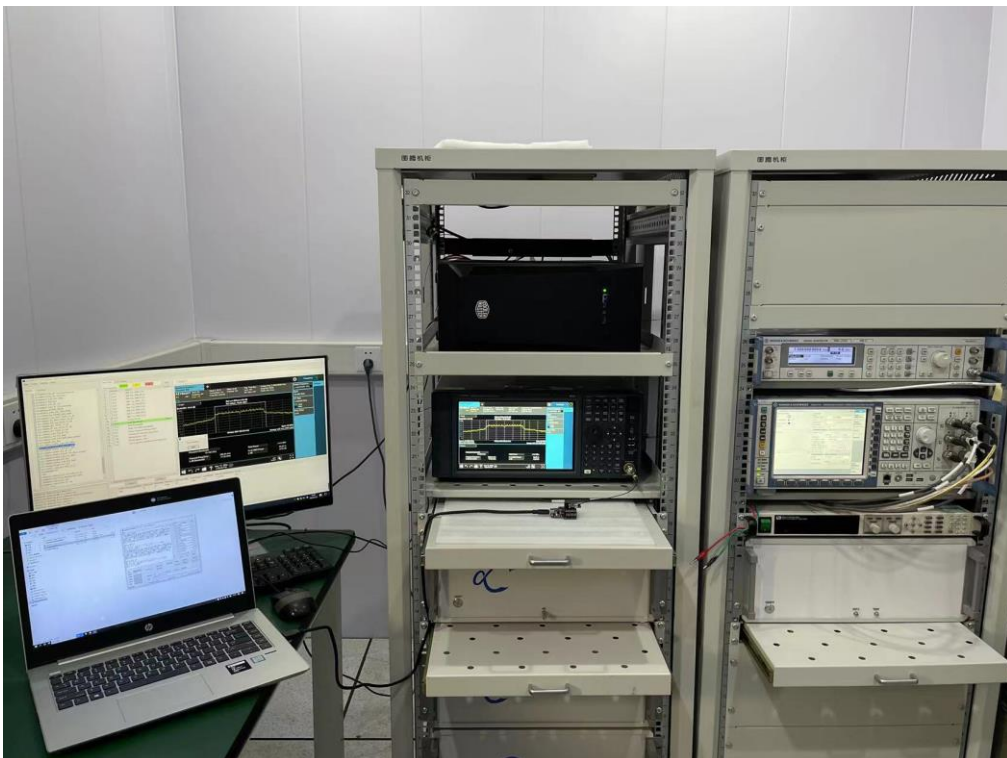
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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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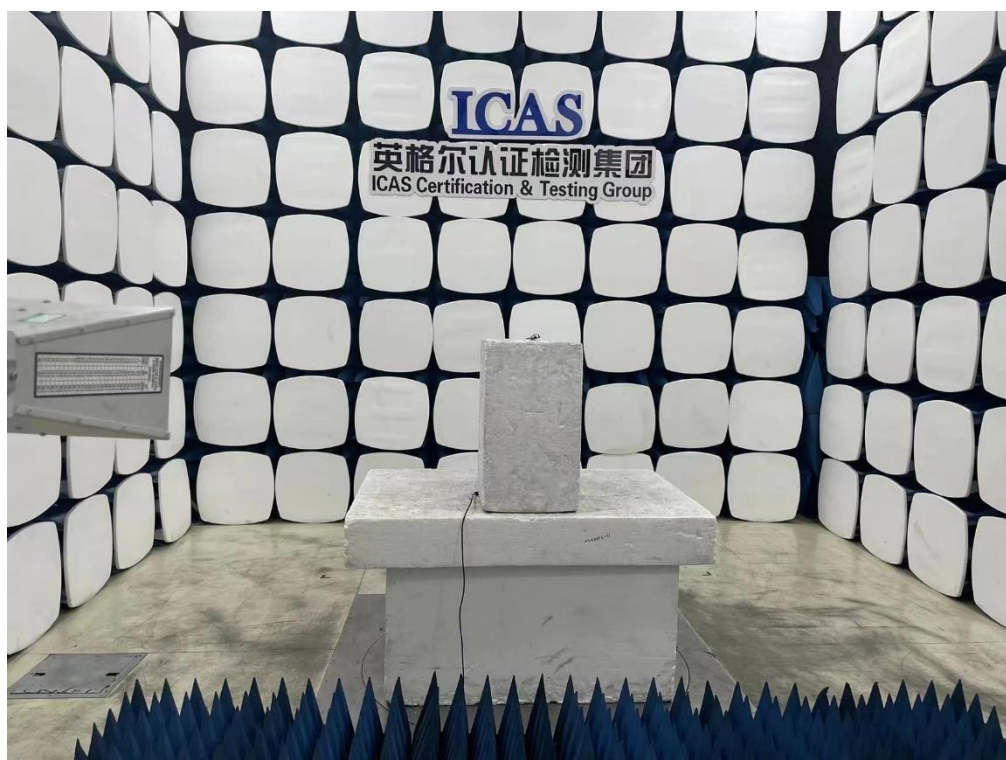
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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report