

TEST REPORT

Report No.: SHE26040056-02CE

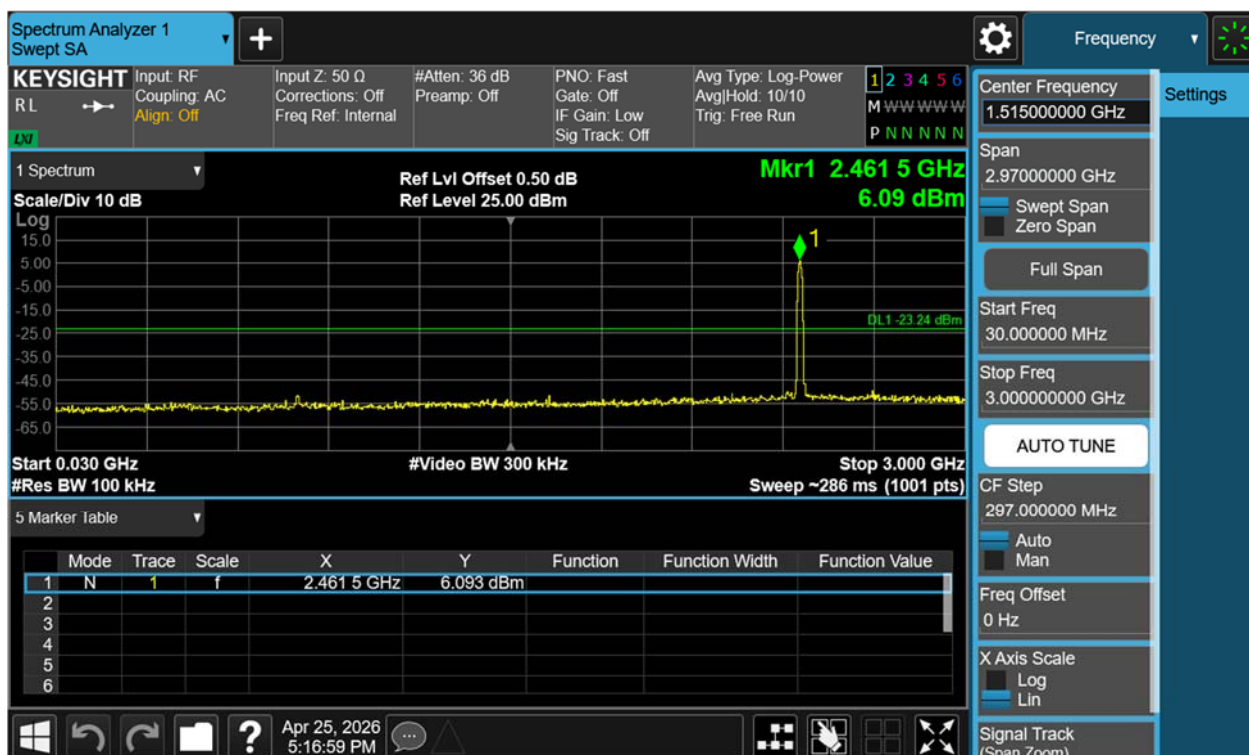
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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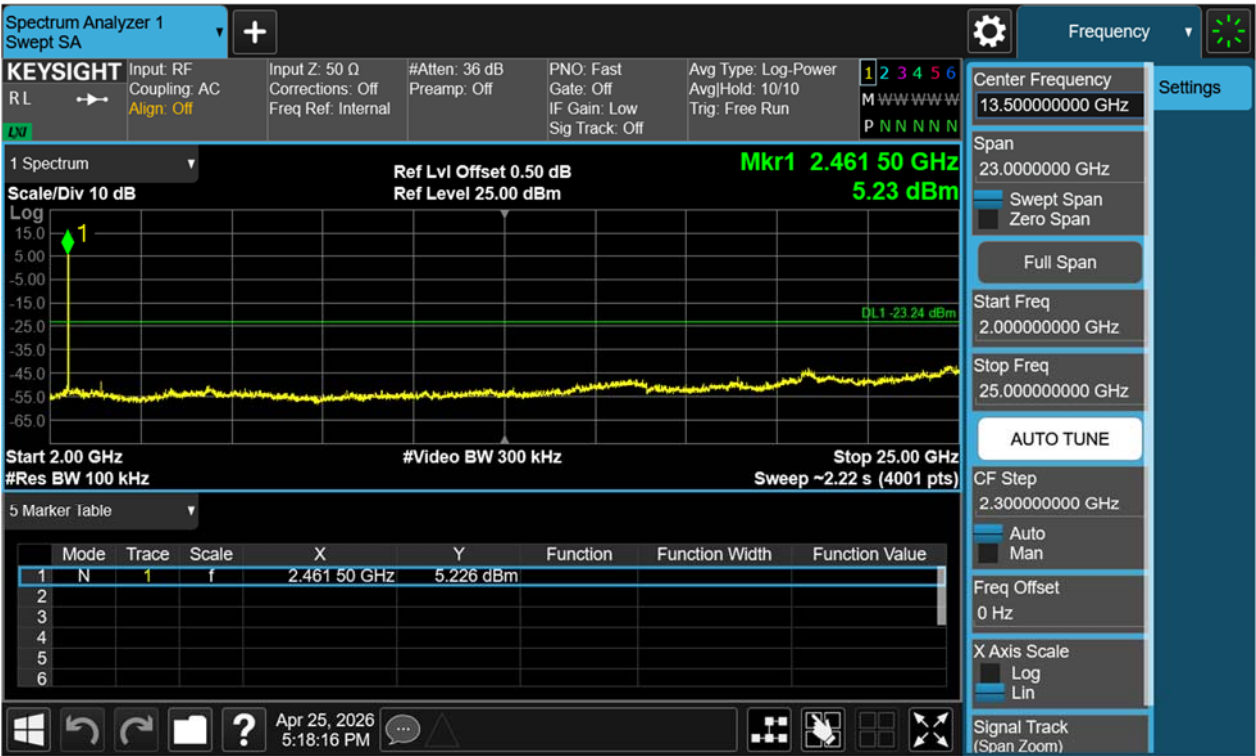
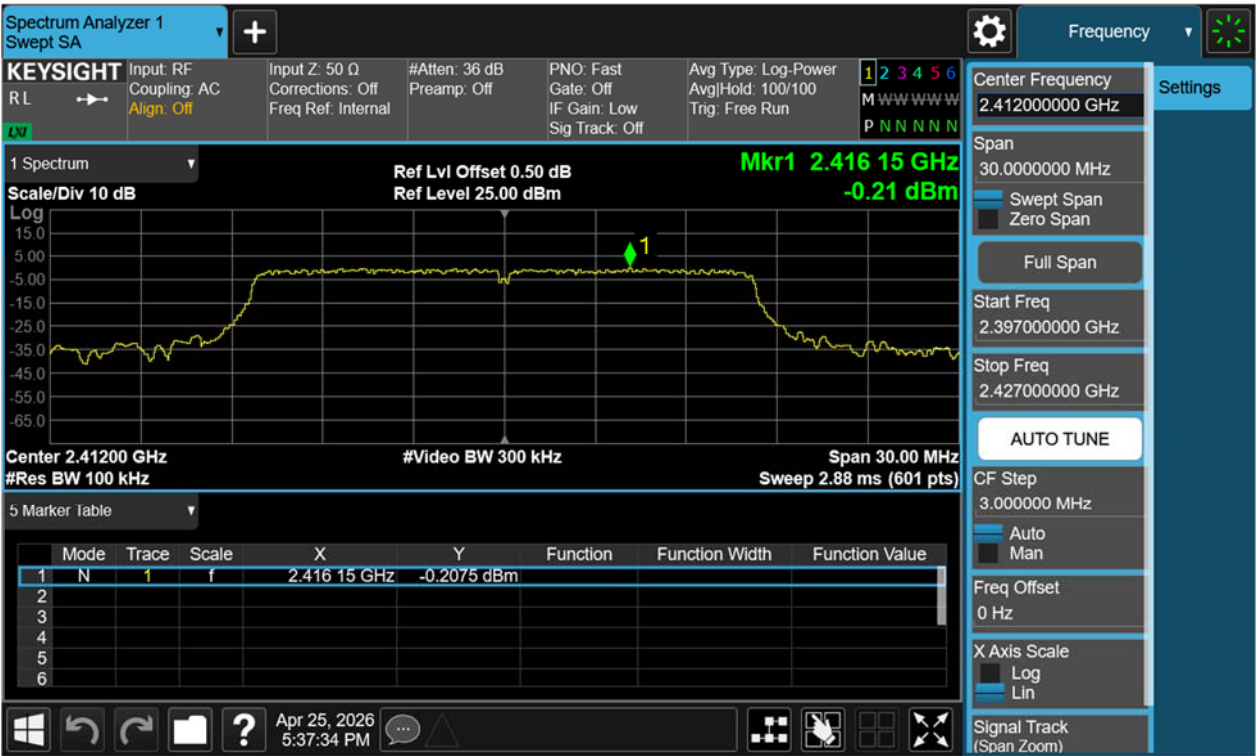


Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



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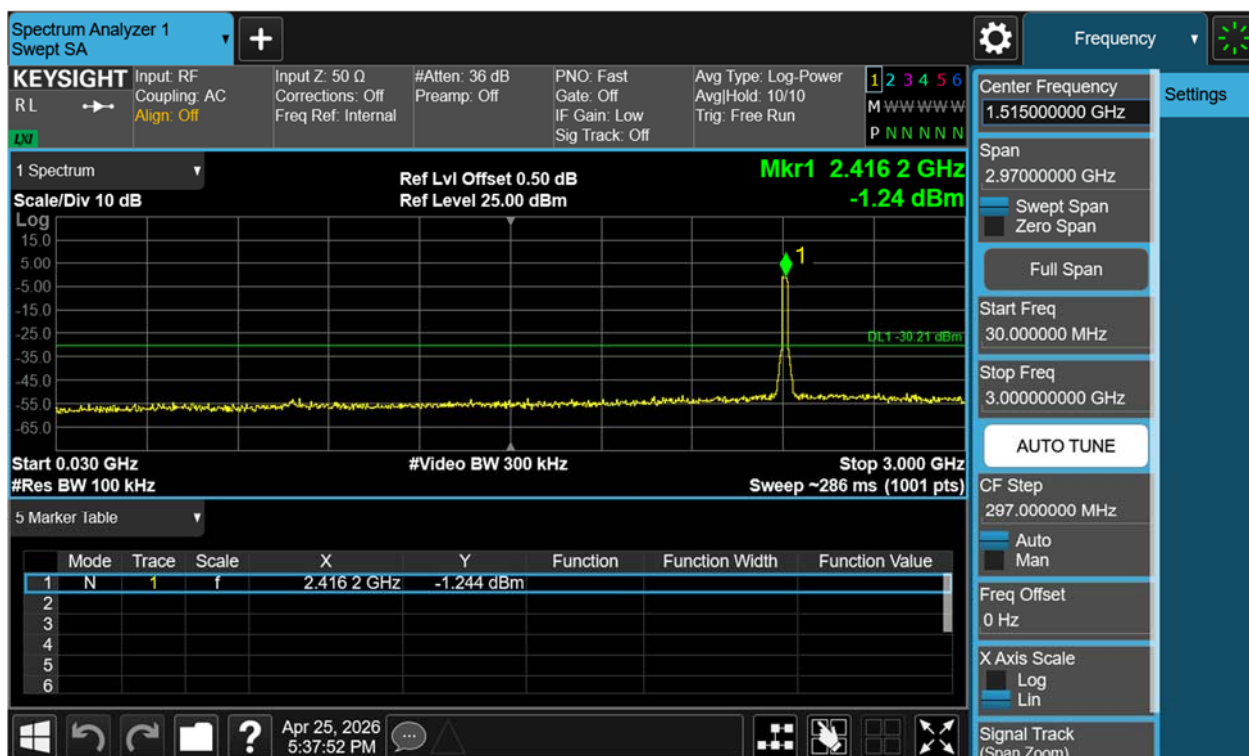
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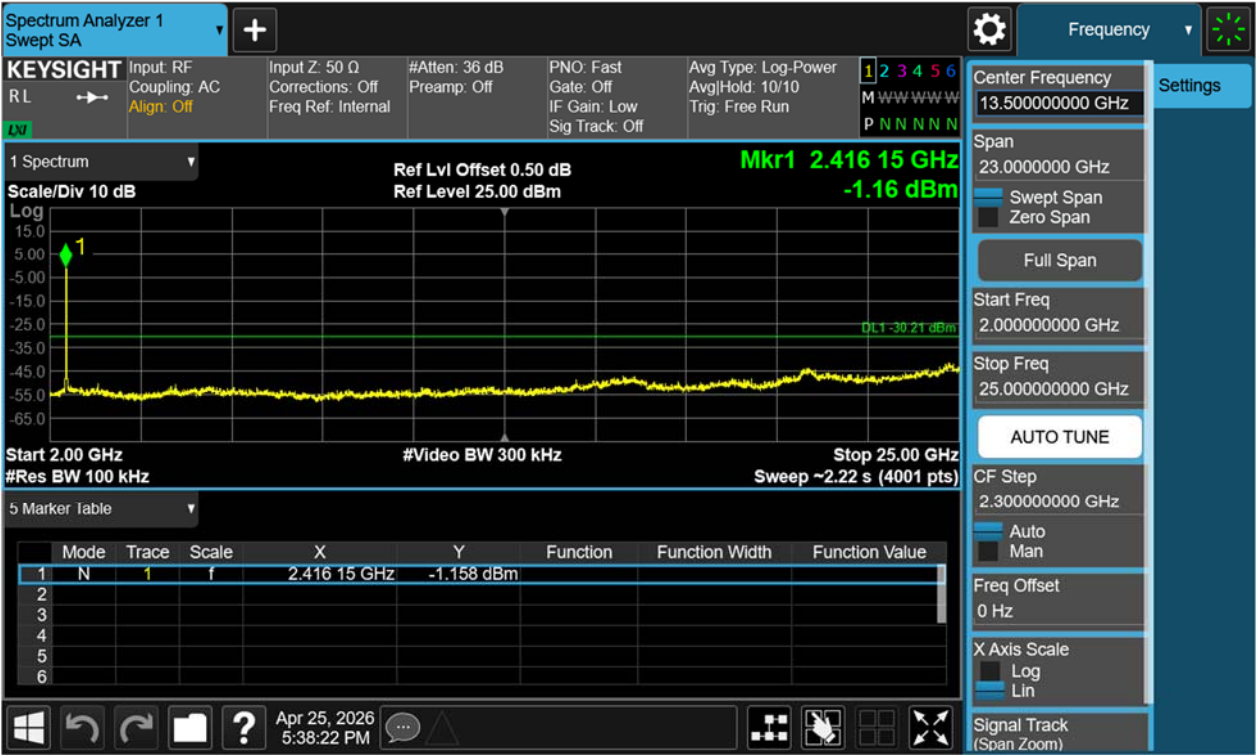
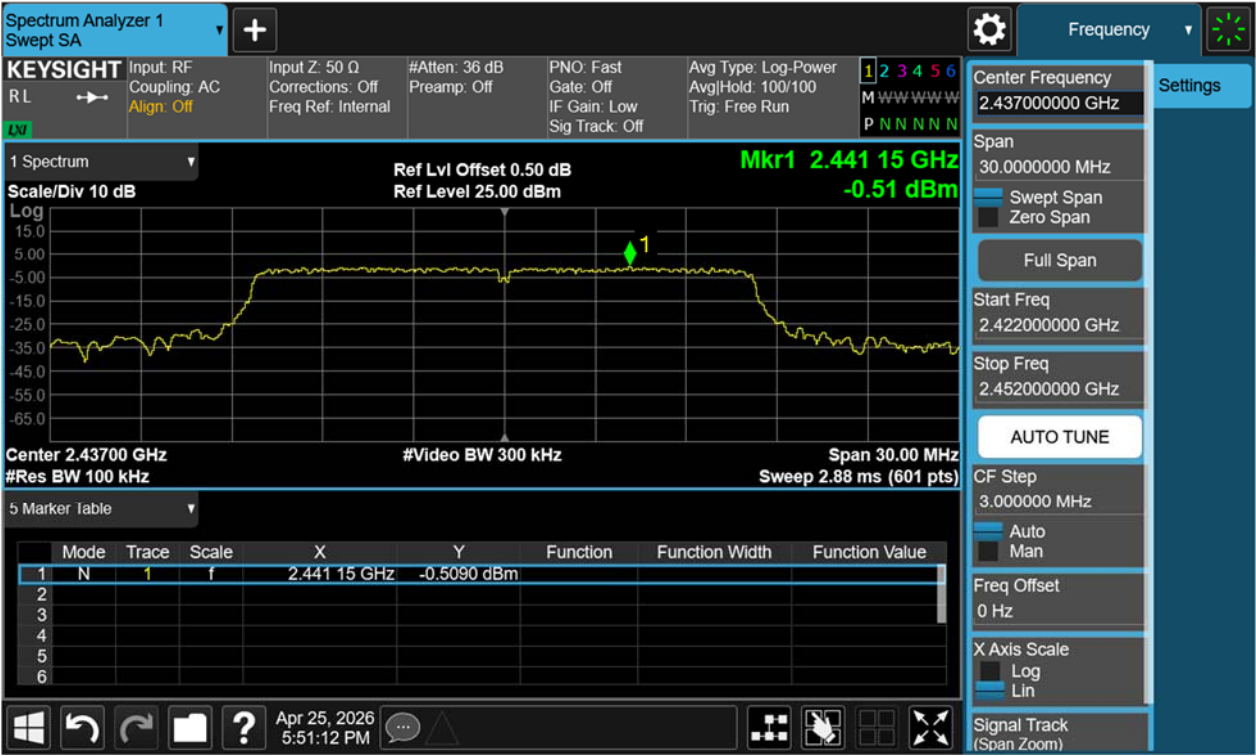


Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



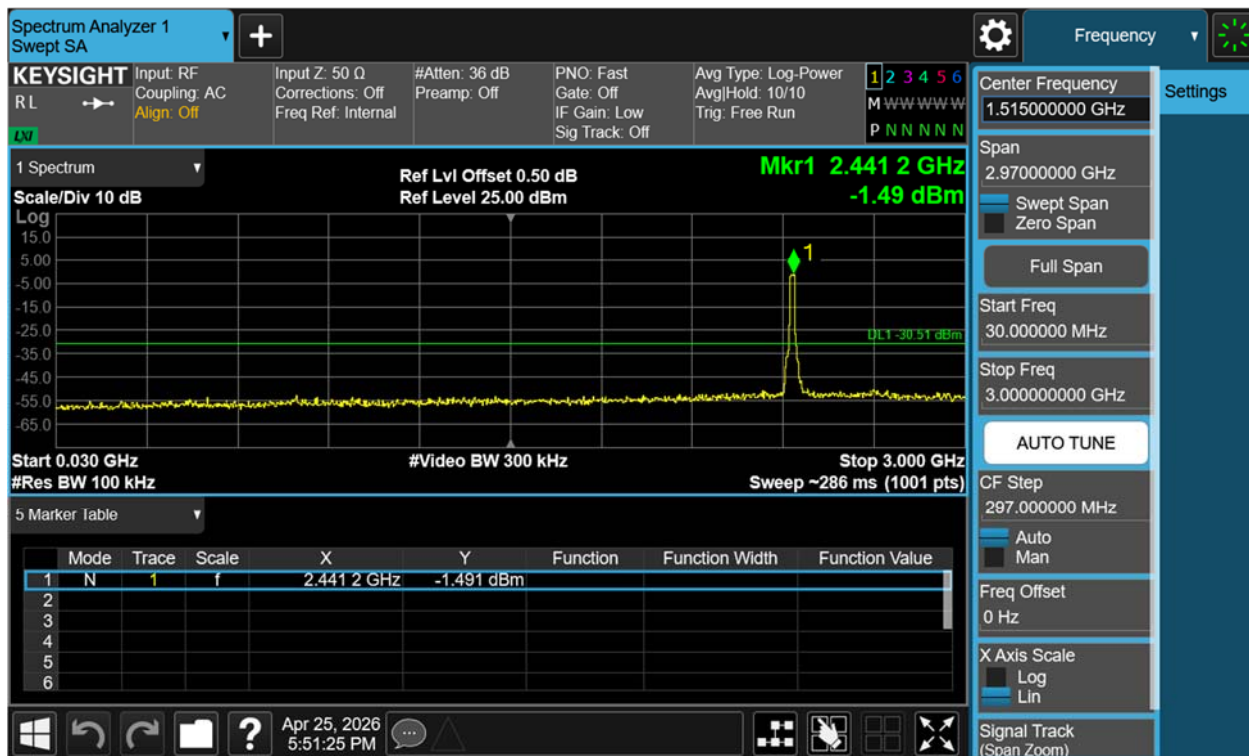
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Conducted spurious emissions 30MHz-25GHz



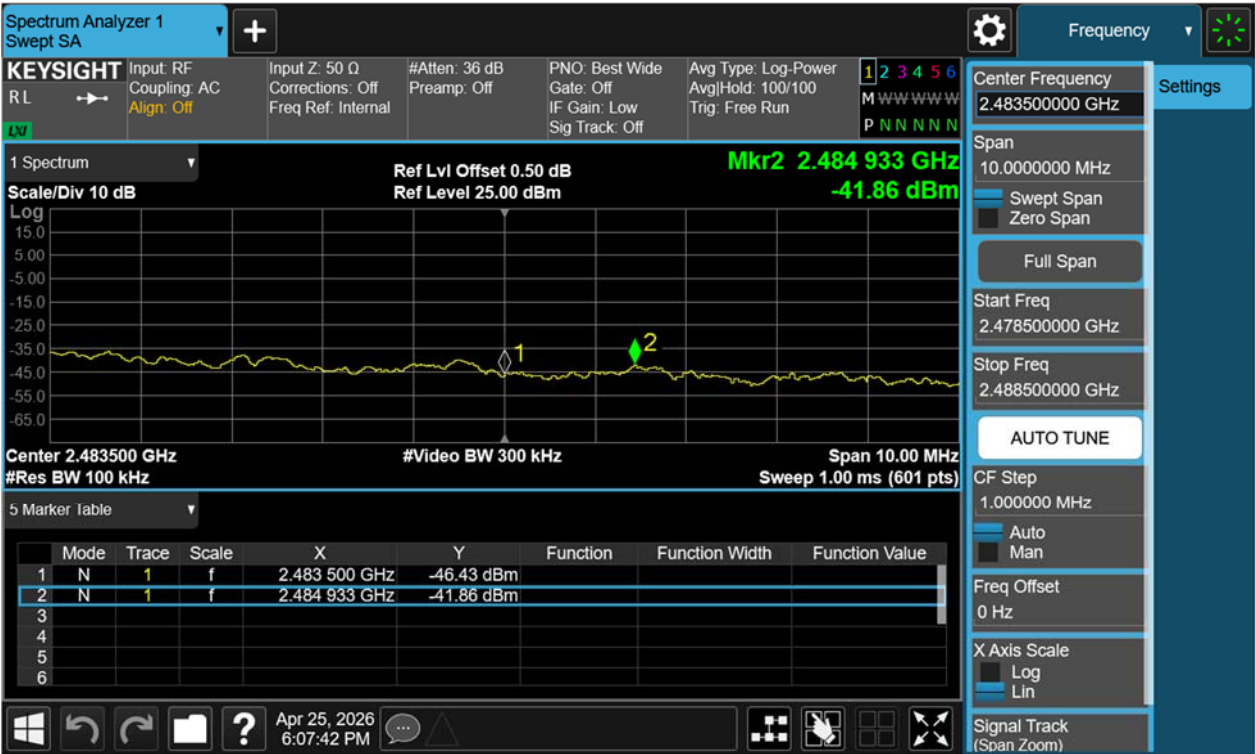
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Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



Band Edge



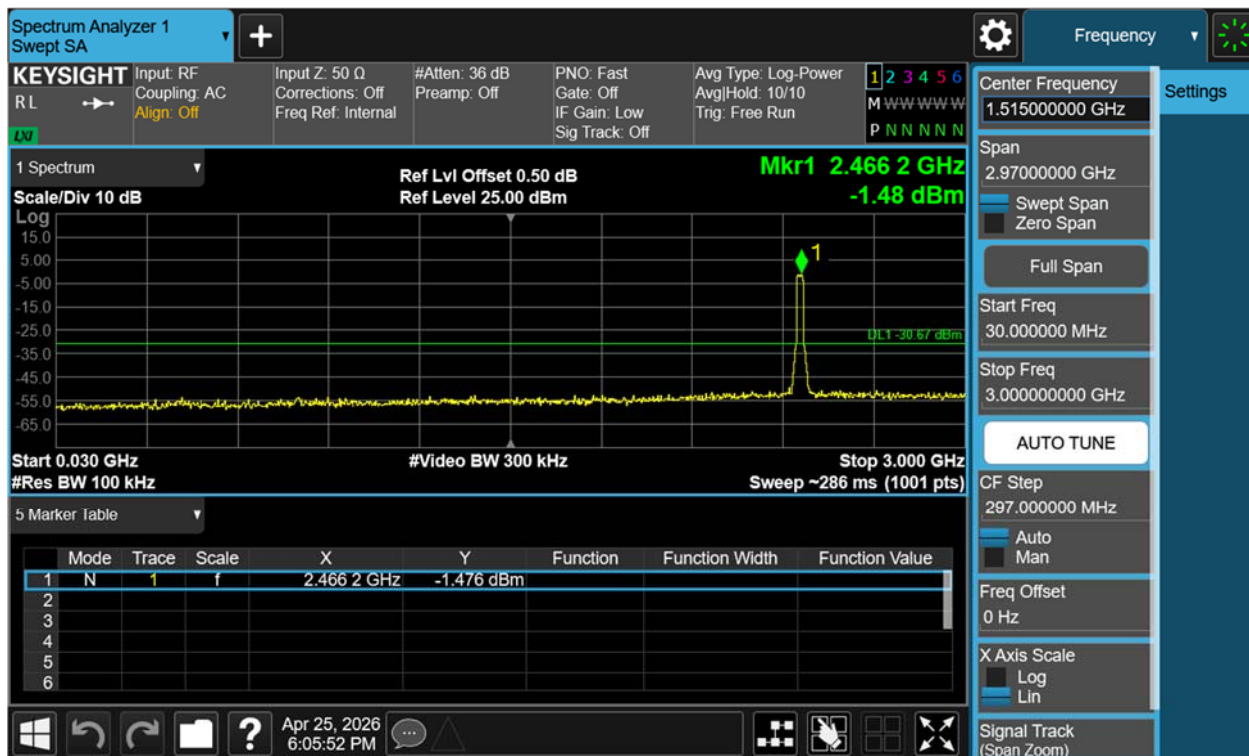
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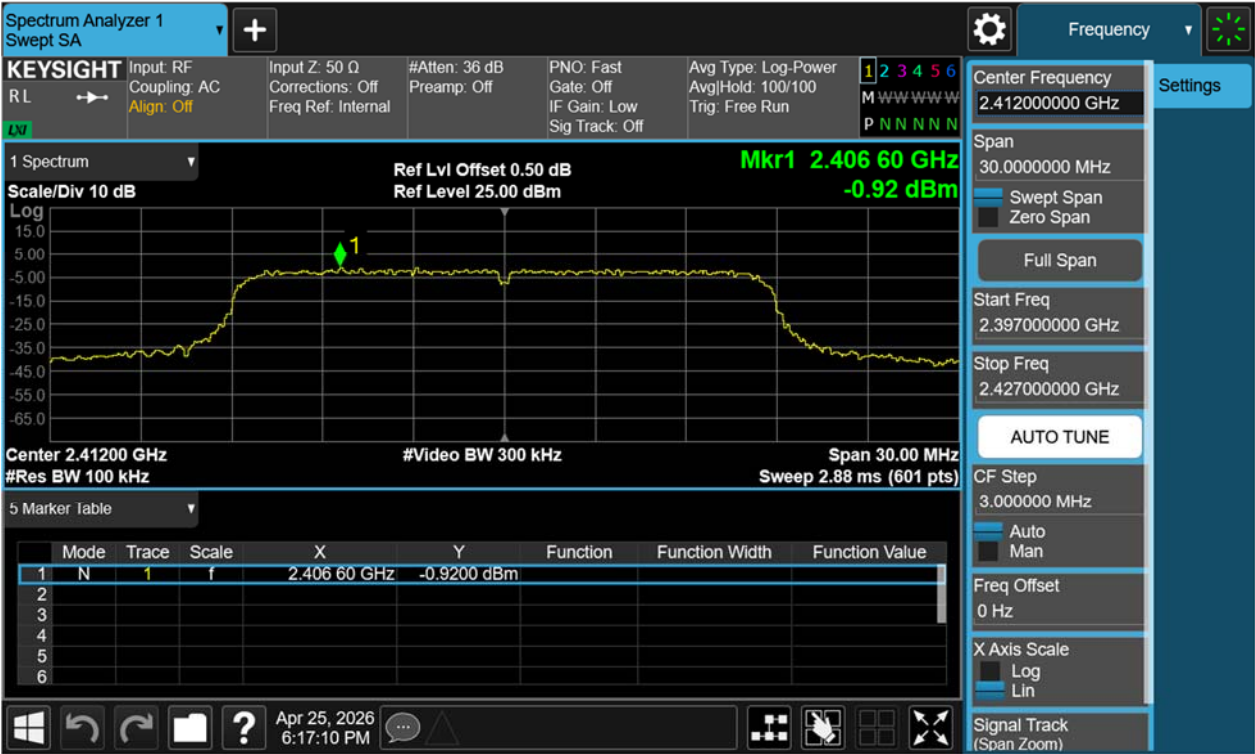
Conducted spurious emissions 30MHz-25GHz



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Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



Band Edge



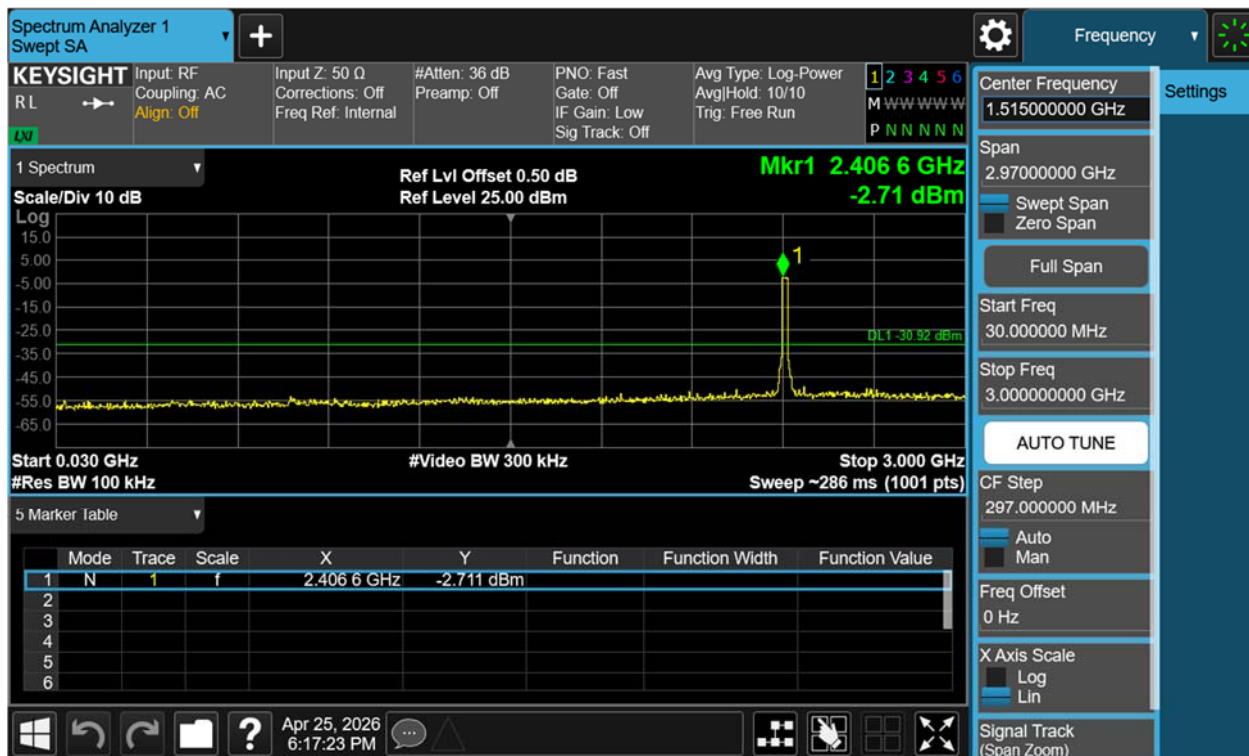
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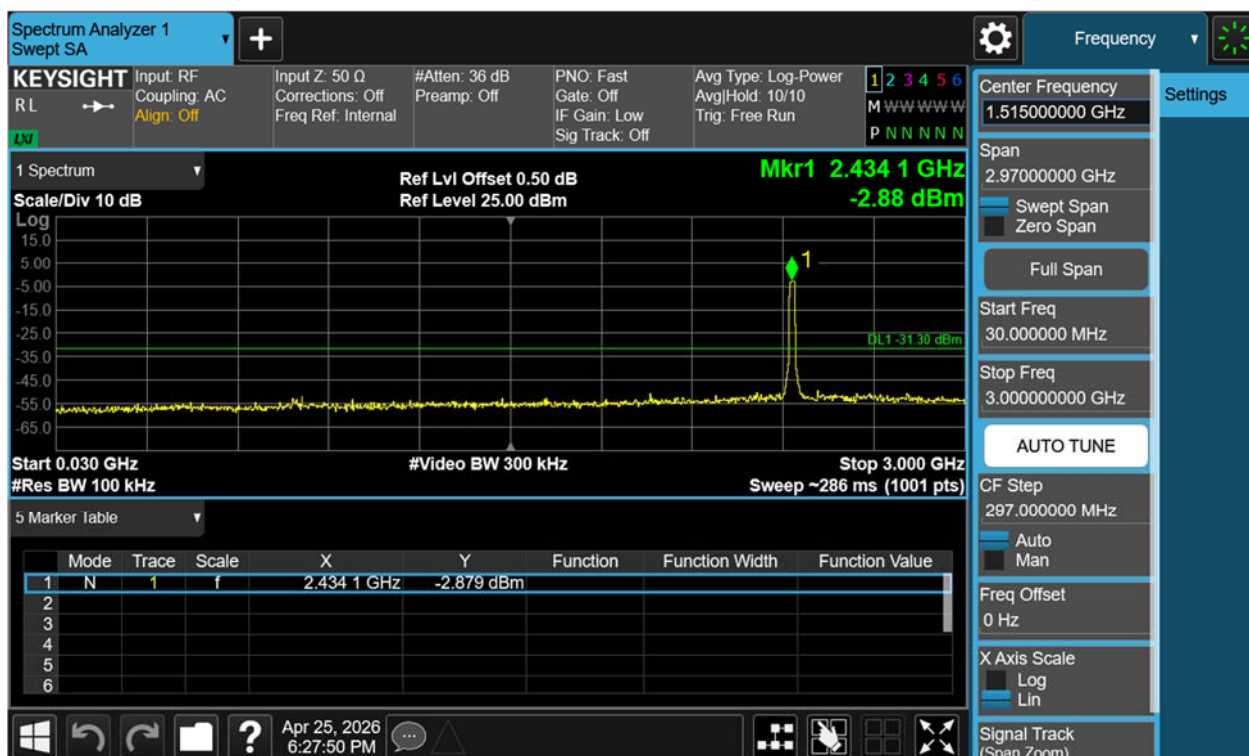
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



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Figure 37: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



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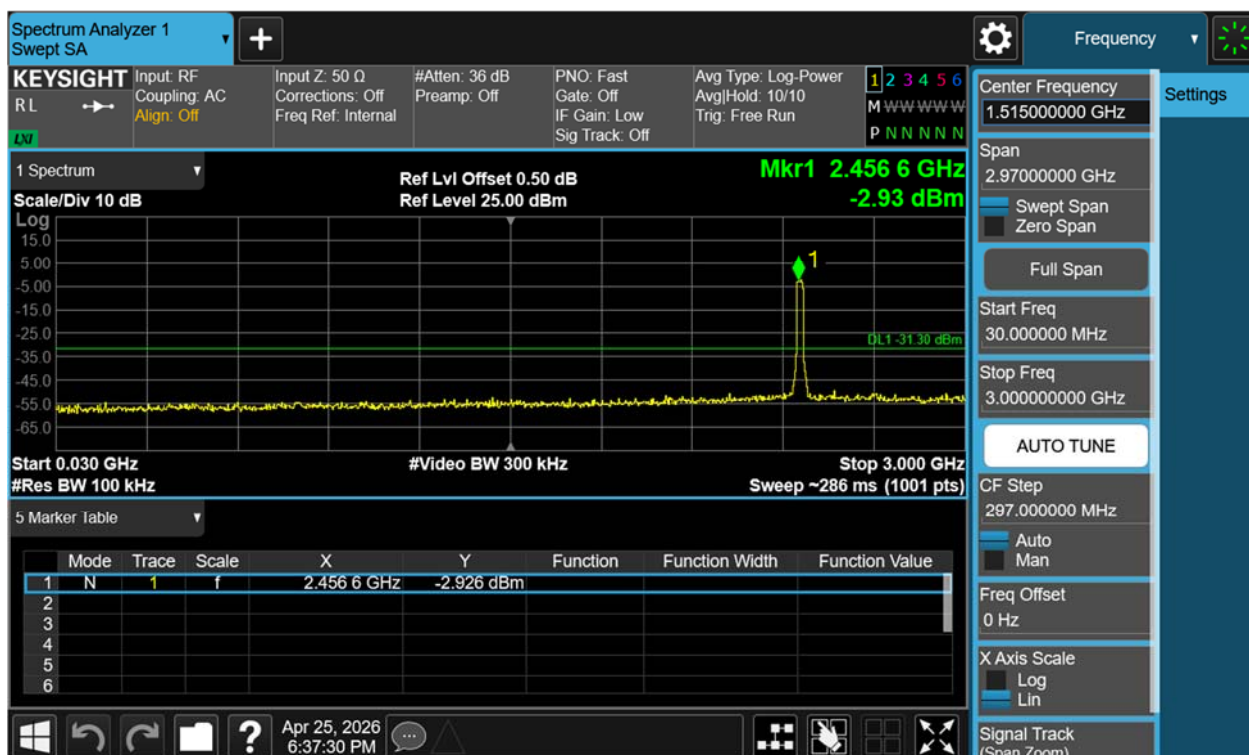
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Band Edge



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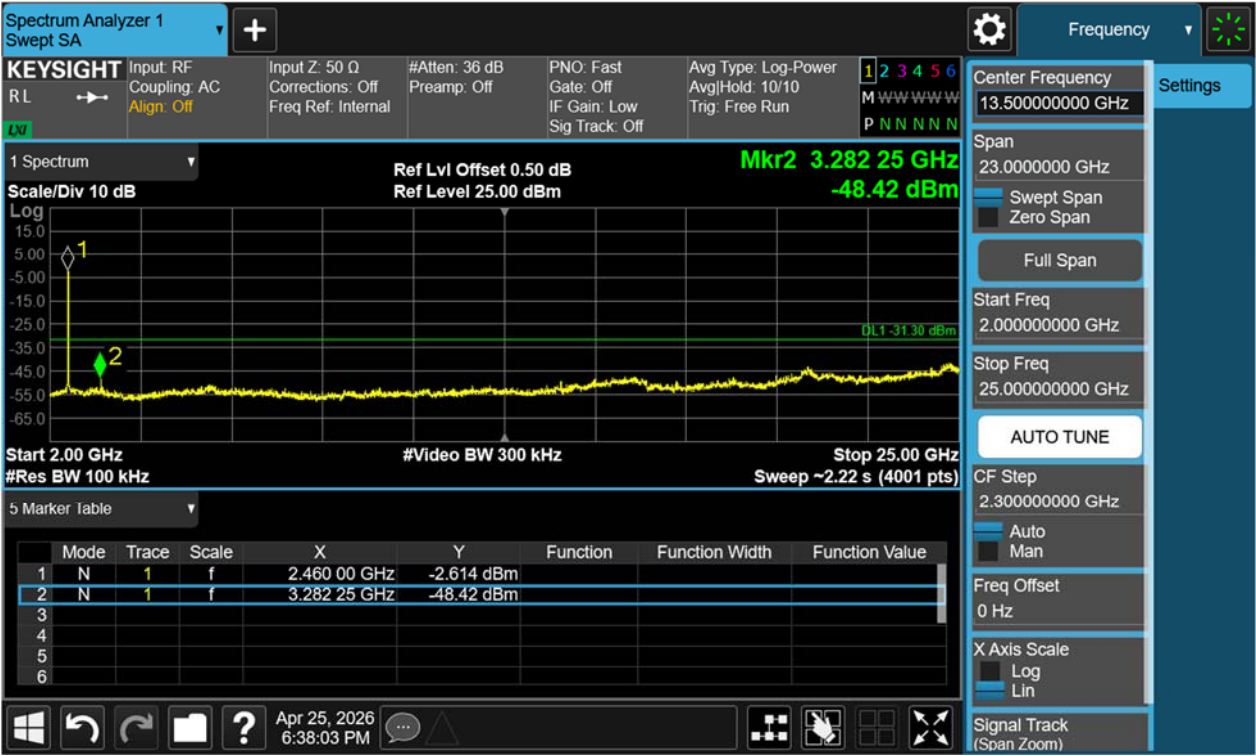
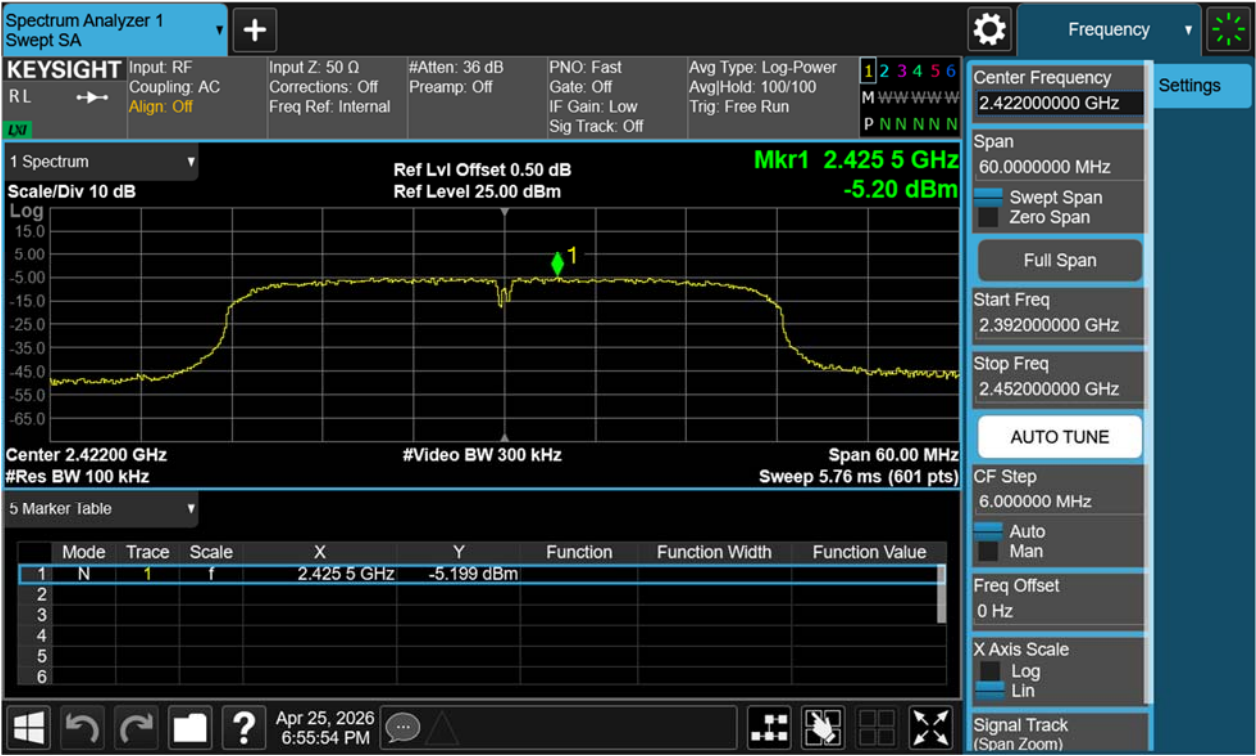


Figure 38: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



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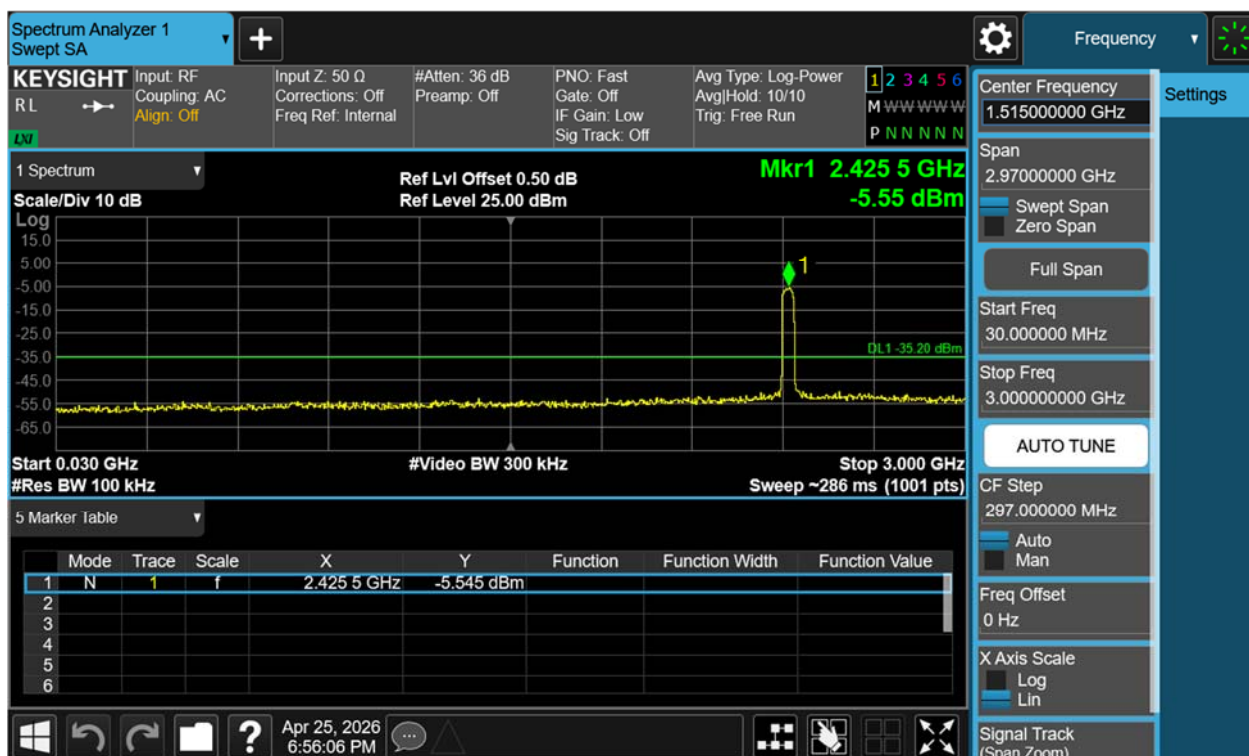
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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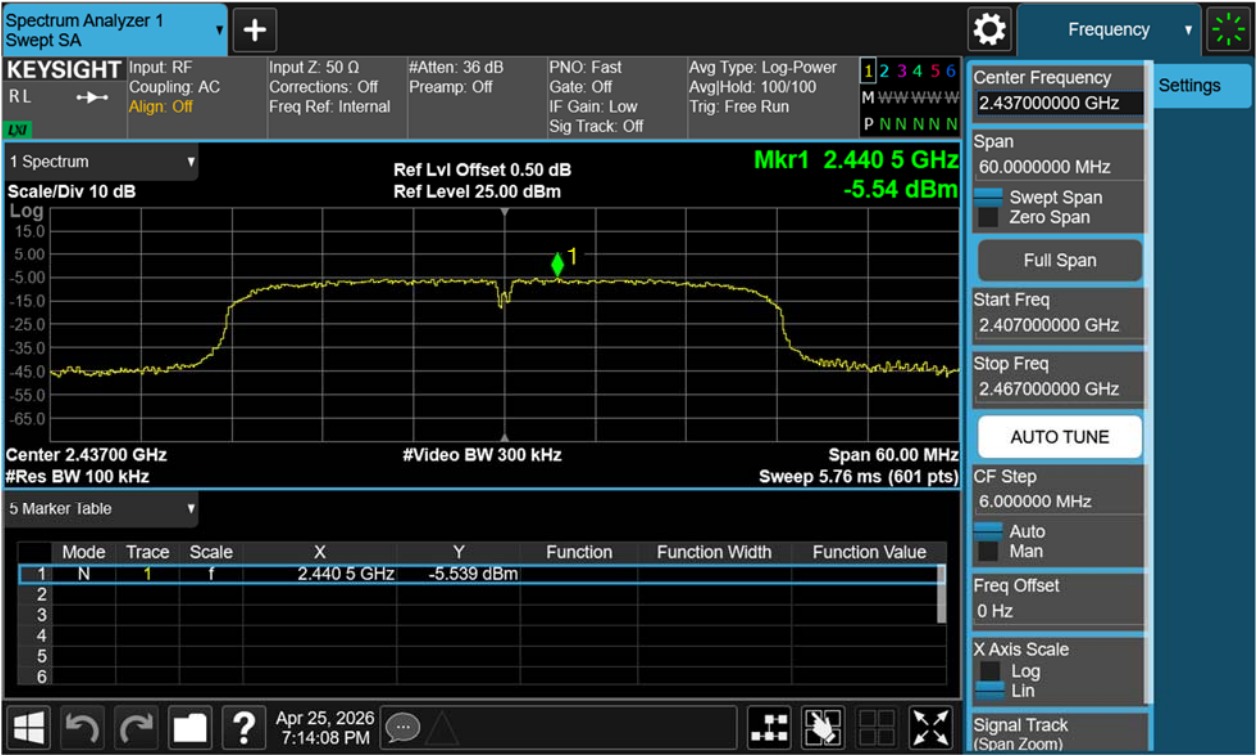
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Figure 39: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



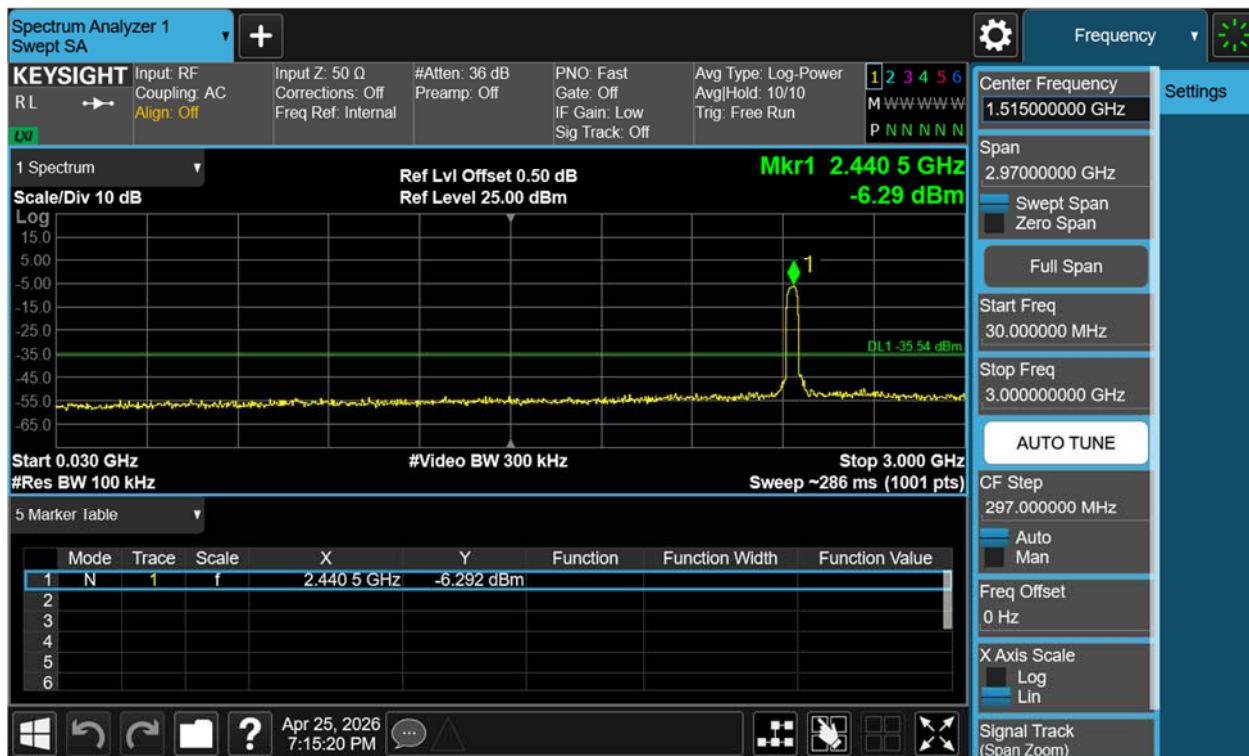
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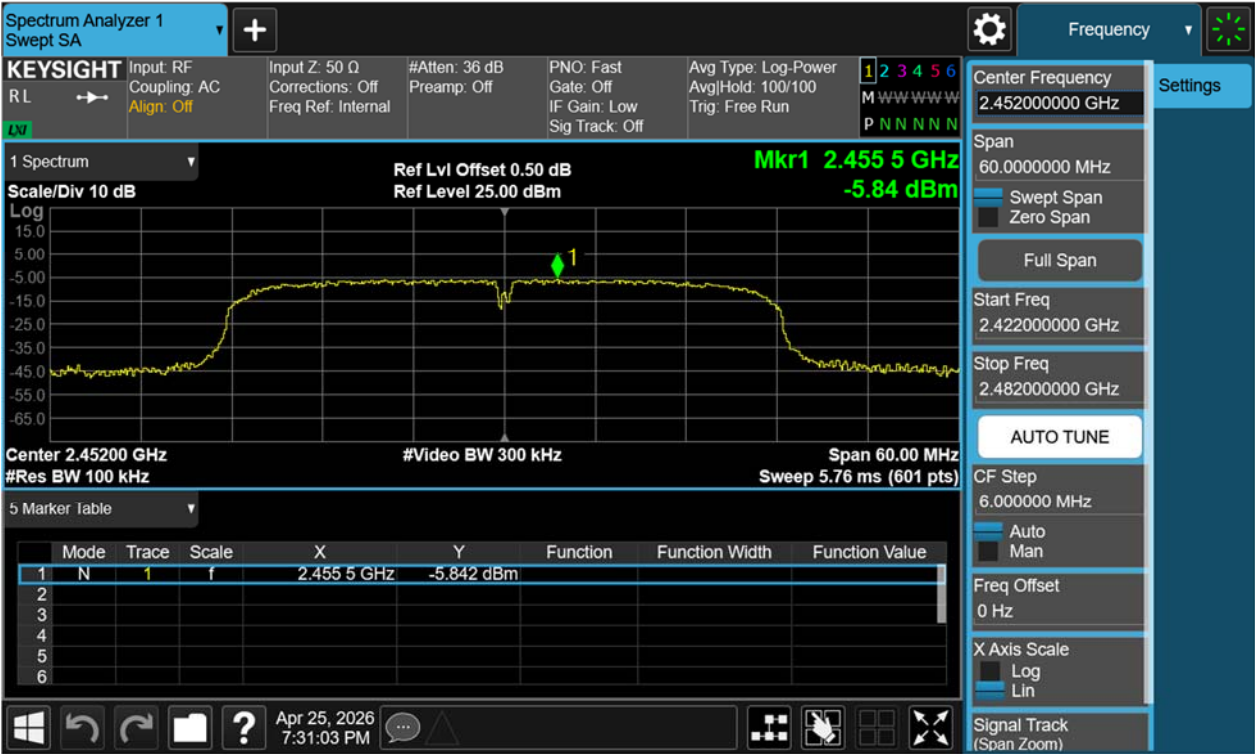
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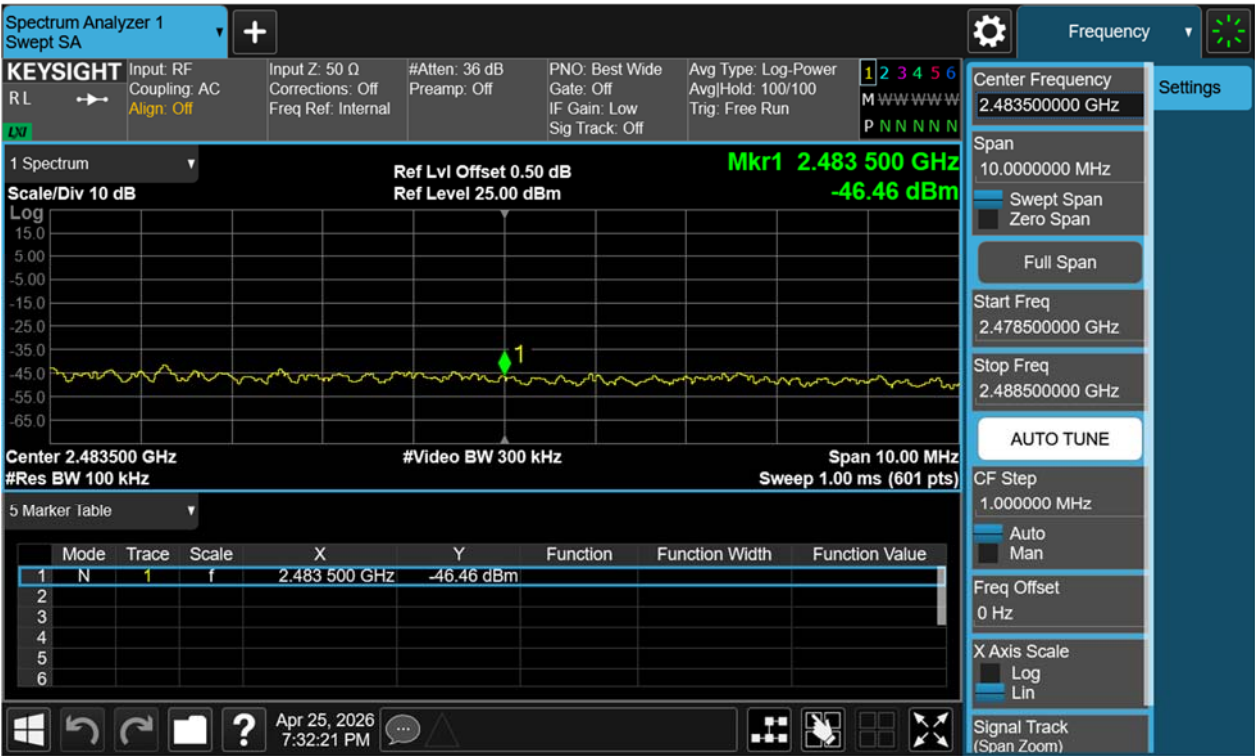
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Figure 40: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



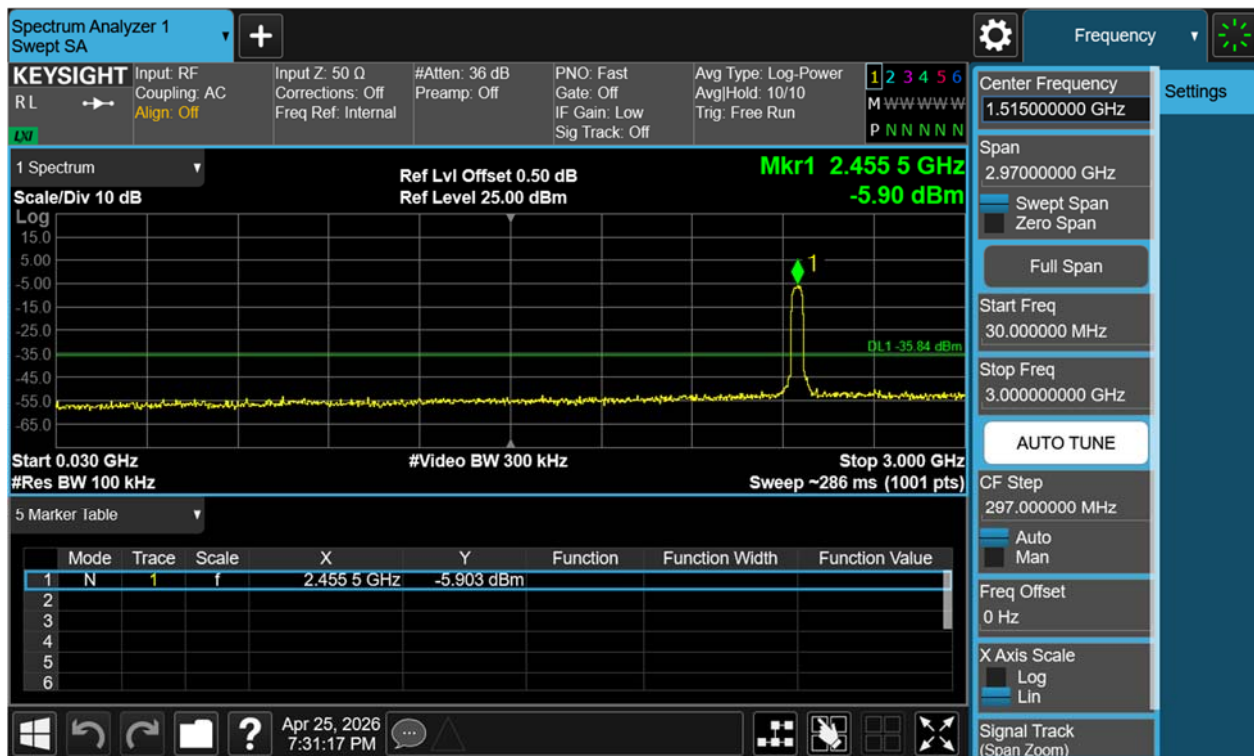
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4.1.6 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10 Clause 11.12.1 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	: 19.5°C
Relative humidity	: 50%

Notes

Test plots please refer to the annex document "SHE26040056-02CE DATA WIFI 2.4GHz-TX EXHIBIT B".

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.
5. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Limit- Results. The "Factor" value can be calculated automatically by software of measurement system.

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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 Clause 11.12.3 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	: 19.5°C
Relative humidity	: 50%

Notes:

1. Test plots please refer to the annex document "SHE26040056-02CE DATA WIFI 2.4GHz-TX EXHIBIT B".
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.
3. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Limit- Results. The "Factor" value can be calculated automatically by software of measurement system.

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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 Clause 6.2
Kind of test site	: Shielded room

Test setup

Input Voltage	: DC 12V 2A supply by AC adapter (which received AC 120V, 60Hz)
Operation Mode	: A.1.a
Earthing	: Disconnected to GND
Ambient temperature	: 22.3°C
Relative humidity	: 50.0%

For details refer to following test plot.

Notes:

1. The all configurations were tested respectively, but only the worst data (at low channel) shown here.
2. Factor=Insertion Loss + Cable Loss, Margin= Limit- Results.

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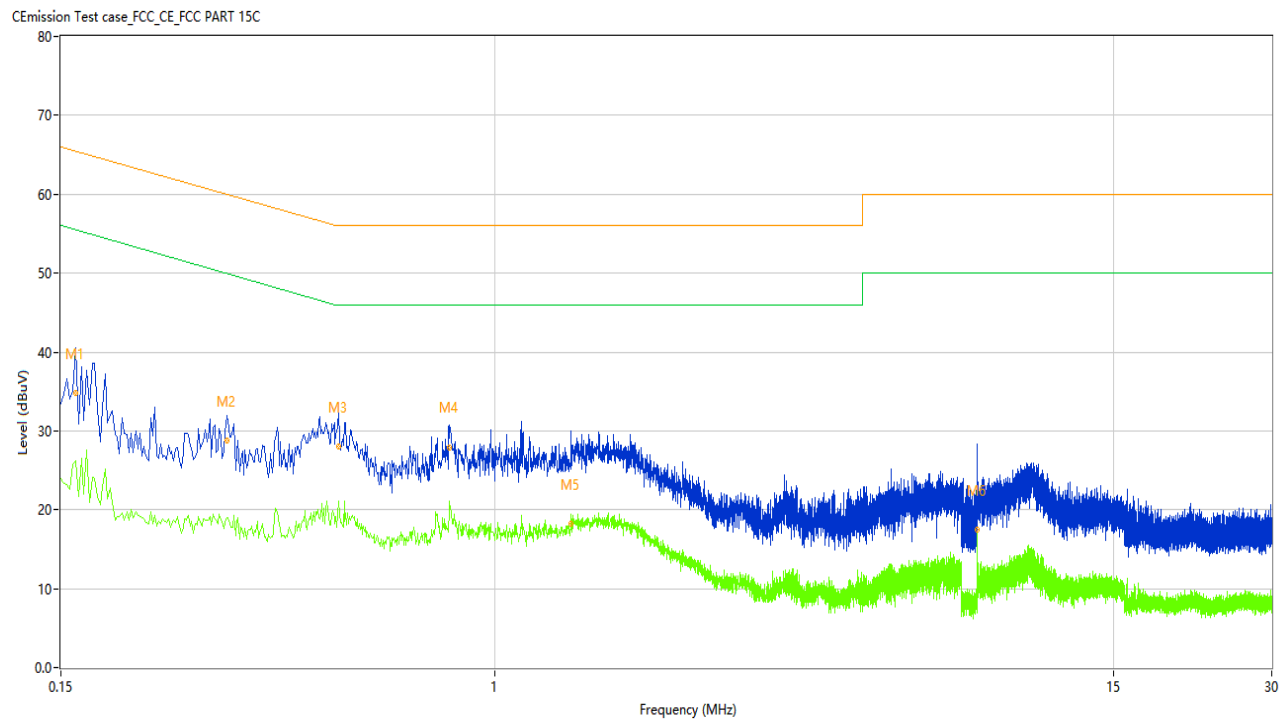
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

Figure 41: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	45.60	0.26	65.46	19.86	Peak	L	Pass
1*	0.160	34.87	0.26	65.46	30.59	QP	L	Pass
1**	0.160	26.21	0.26	55.46	29.25	AV	L	Pass
2	0.310	34.75	0.17	59.97	25.22	Peak	L	Pass
2*	0.310	28.79	0.17	59.97	31.18	QP	L	Pass
2**	0.310	18.94	0.17	49.97	31.03	AV	L	Pass
3	0.506	33.39	0.20	56.00	22.61	Peak	L	Pass
3*	0.506	28.05	0.20	56.00	27.95	QP	L	Pass
3**	0.506	21.02	0.20	46.00	24.98	AV	L	Pass
4	0.822	33.73	0.17	56.00	22.27	Peak	L	Pass
4*	0.822	27.91	0.17	56.00	28.09	QP	L	Pass
4**	0.822	21.05	0.17	46.00	24.95	AV	L	Pass
5	1.400	29.63	0.02	56.00	26.37	Peak	L	Pass
5*	1.400	18.30	0.02	56.00	37.70	QP	L	Pass
5**	1.400	19.36	0.02	46.00	26.64	AV	L	Pass
6	8.278	22.63	0.32	60.00	37.37	Peak	L	Pass
6*	8.278	17.54	0.32	60.00	42.46	QP	L	Pass
6**	8.278	16.98	0.32	50.00	33.02	AV	L	Pass

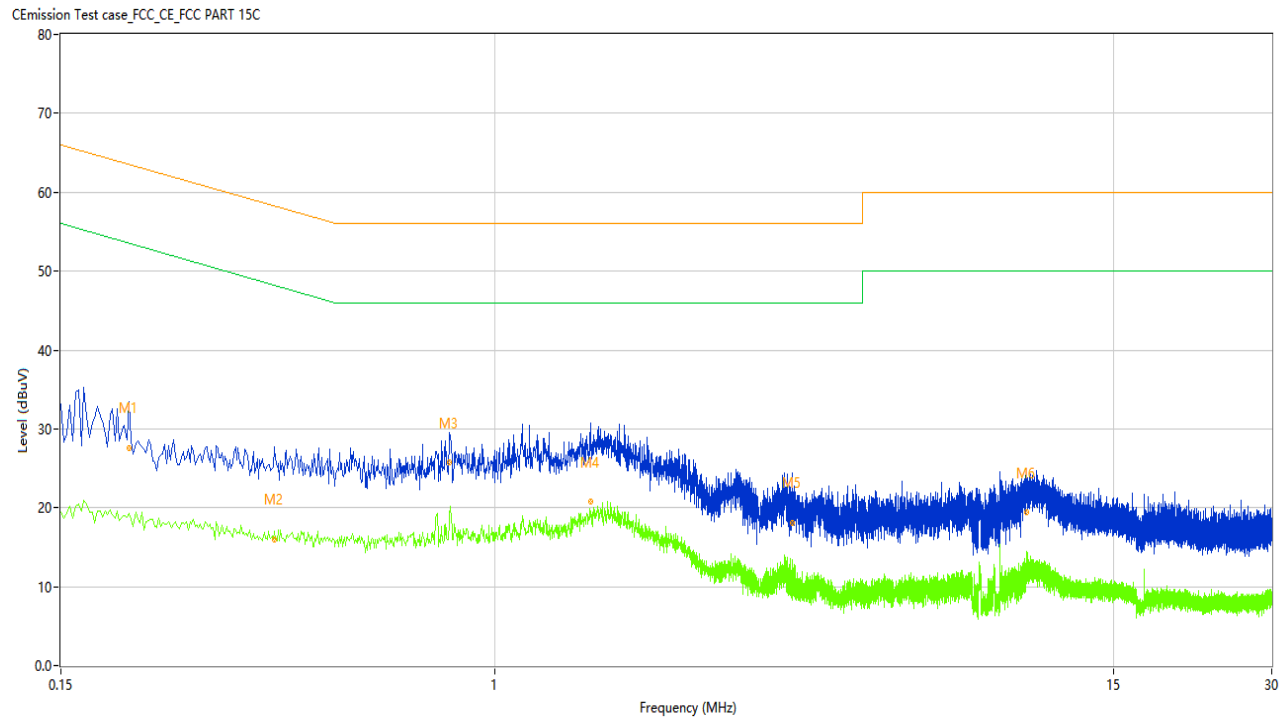
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Figure 42: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.202	41.66	0.17	63.53	21.87	Peak	N	Pass
1*	0.202	27.50	0.17	63.53	36.03	QP	N	Pass
1**	0.202	19.31	0.17	53.53	34.22	AV	N	Pass
2	0.382	25.94	0.09	58.24	32.30	Peak	N	Pass
2*	0.382	15.93	0.09	58.24	42.31	QP	N	Pass
2**	0.382	17.02	0.09	48.24	31.22	AV	N	Pass
3	0.822	32.00	0.13	56.00	24.00	Peak	N	Pass
3*	0.822	25.82	0.13	56.00	30.18	QP	N	Pass
3**	0.822	19.60	0.13	46.00	26.40	AV	N	Pass
4	1.522	29.84	-0.10	56.00	26.16	Peak	N	Pass
4*	1.522	20.74	-0.10	56.00	35.26	QP	N	Pass
4**	1.522	19.42	-0.10	46.00	26.58	AV	N	Pass
5	3.682	25.39	0.07	56.00	30.61	Peak	N	Pass
5*	3.682	18.05	0.07	56.00	37.95	QP	N	Pass
5**	3.682	13.34	0.07	46.00	32.66	AV	N	Pass
6	10.276	24.21	0.28	60.00	35.79	Peak	N	Pass
6*	10.276	19.41	0.28	60.00	40.59	QP	N	Pass
6**	10.276	14.53	0.28	50.00	35.47	AV	N	Pass