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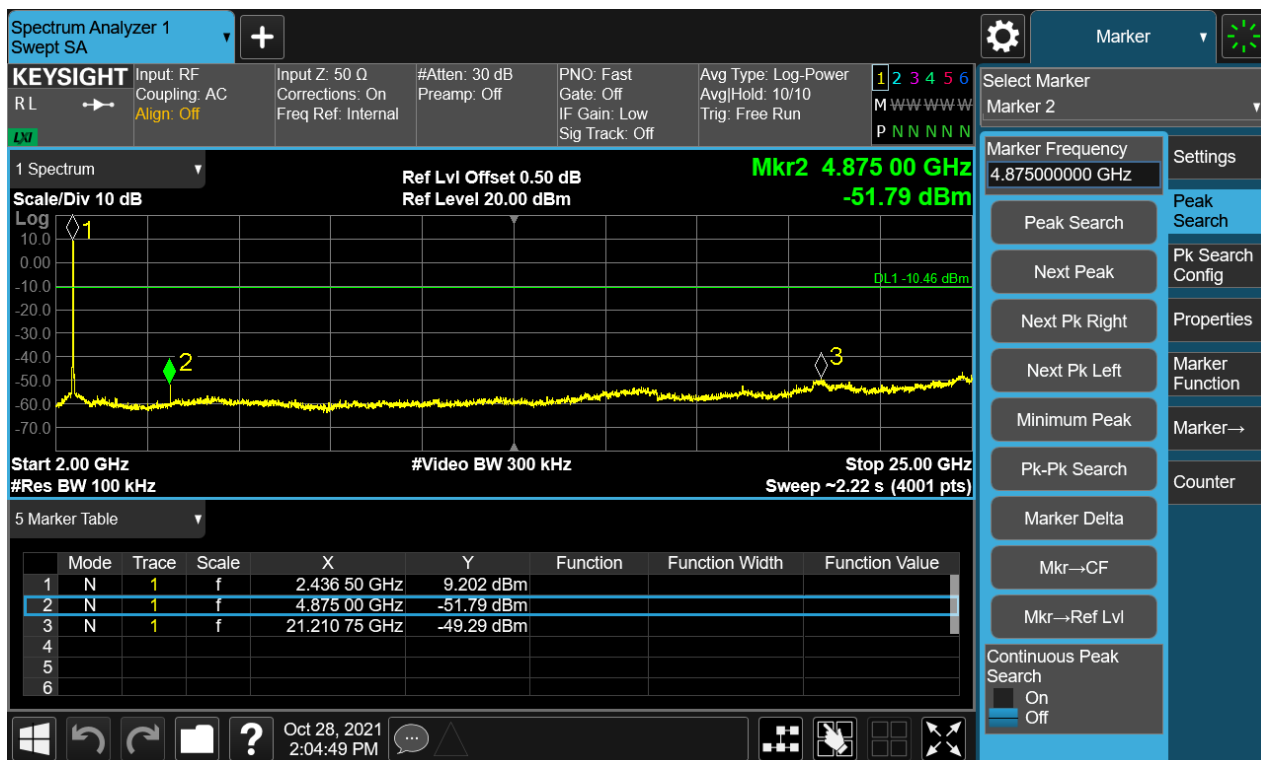


Figure 27: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2462MHz Carrier Level



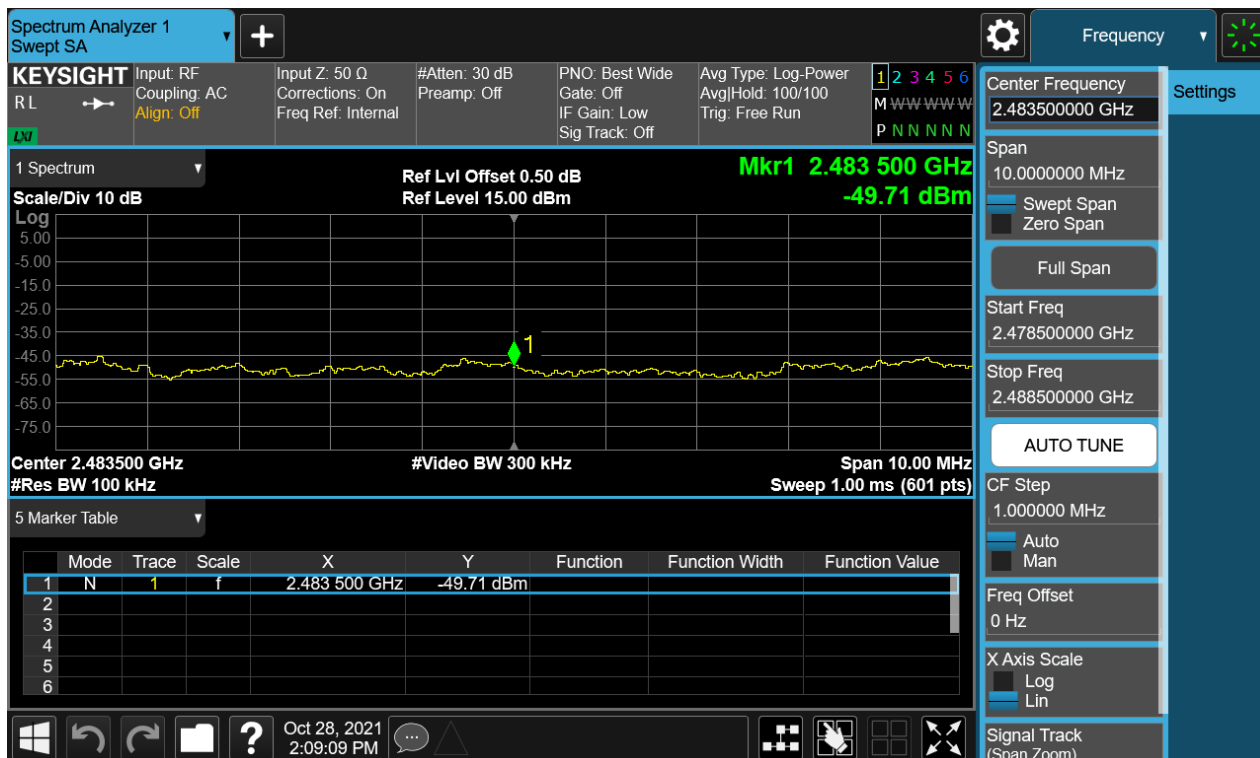
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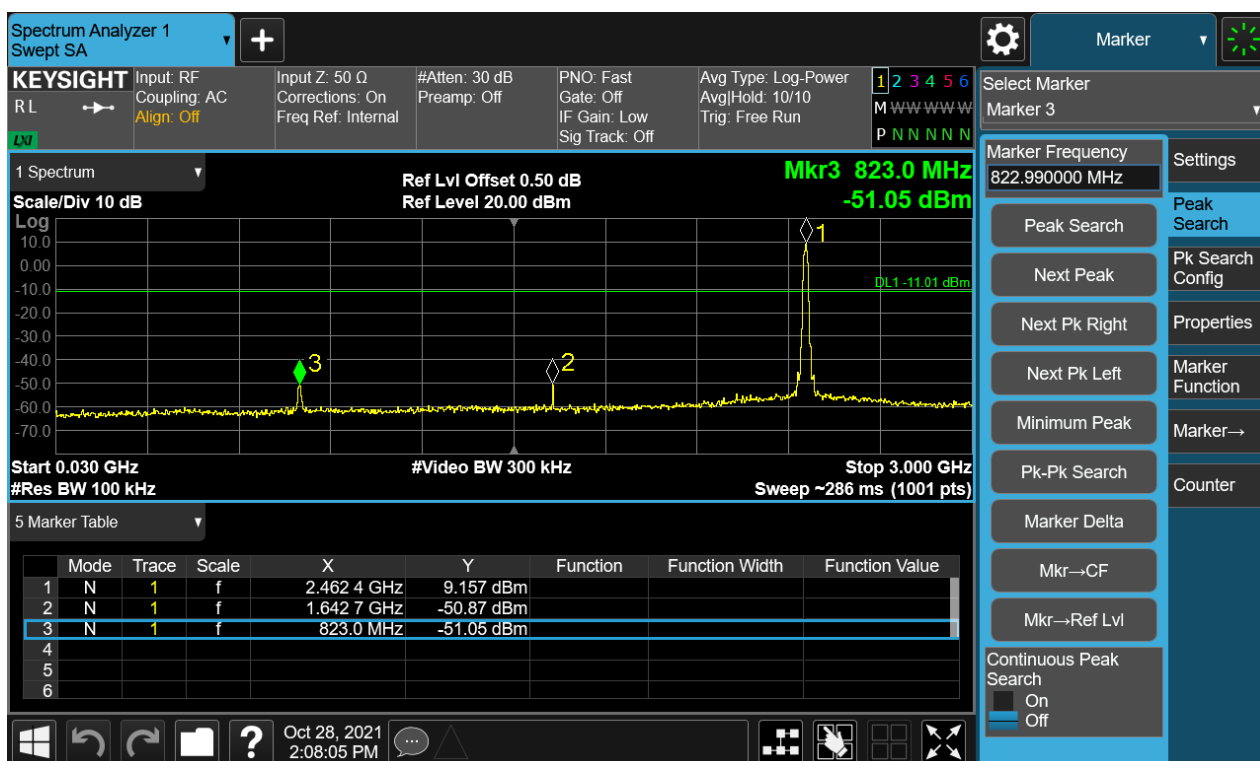
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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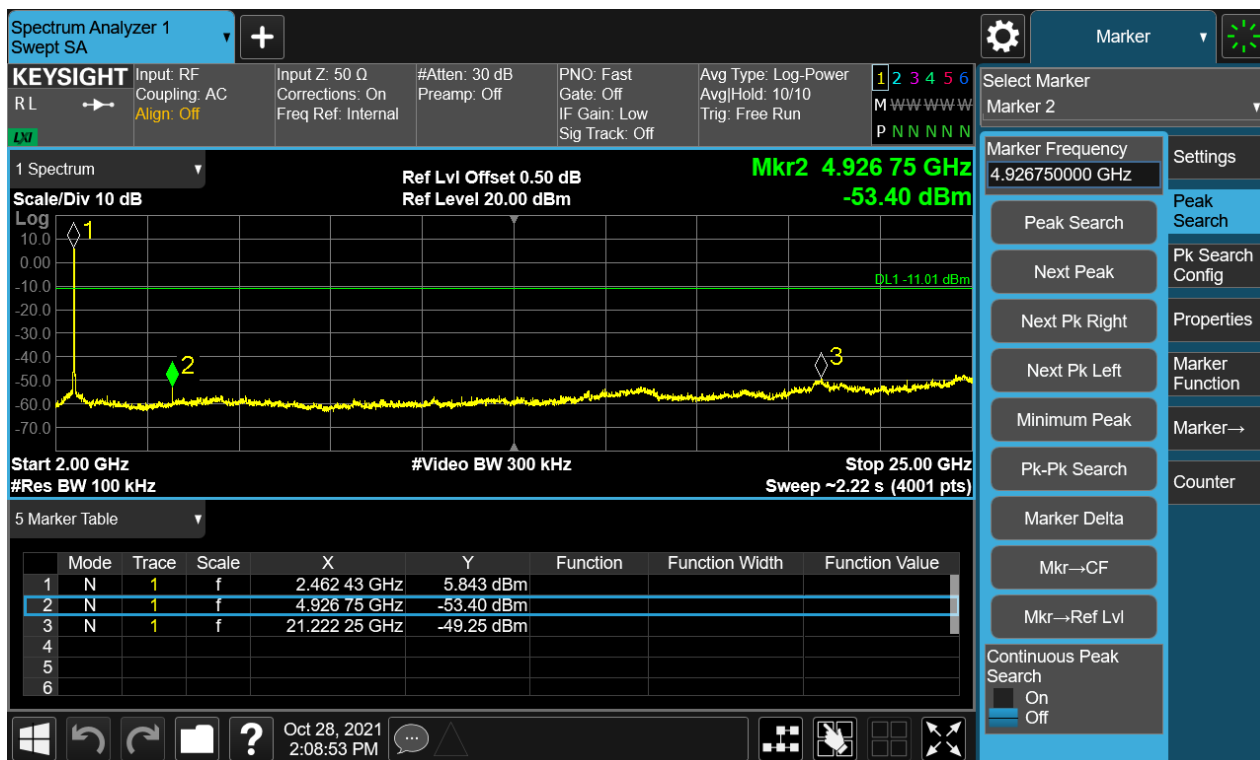


Figure 28: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



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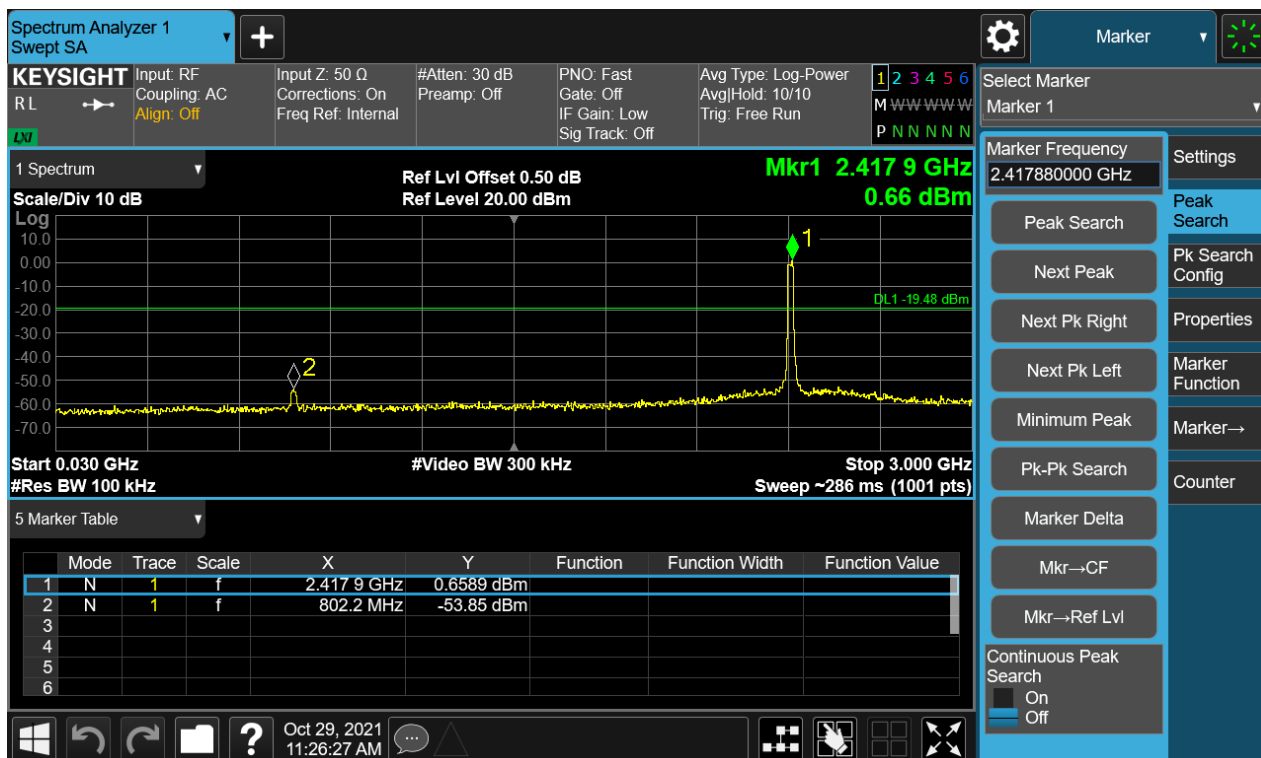
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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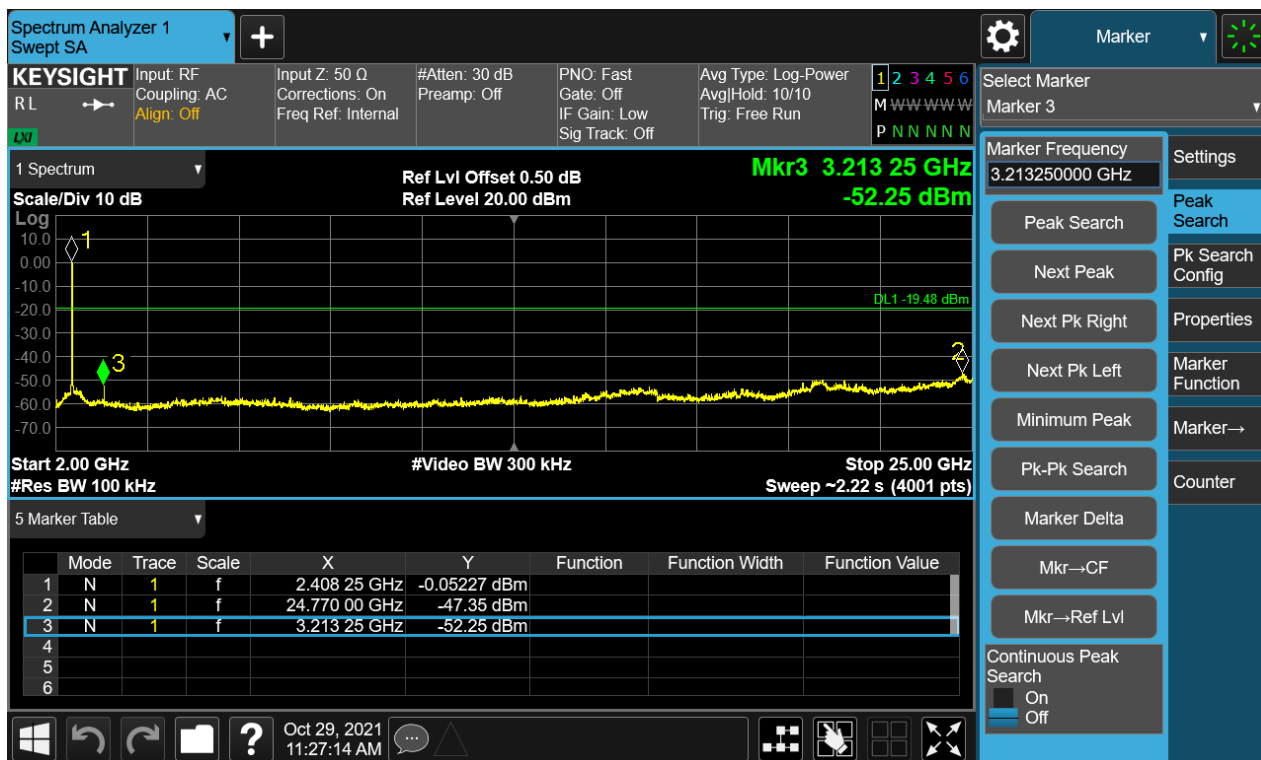
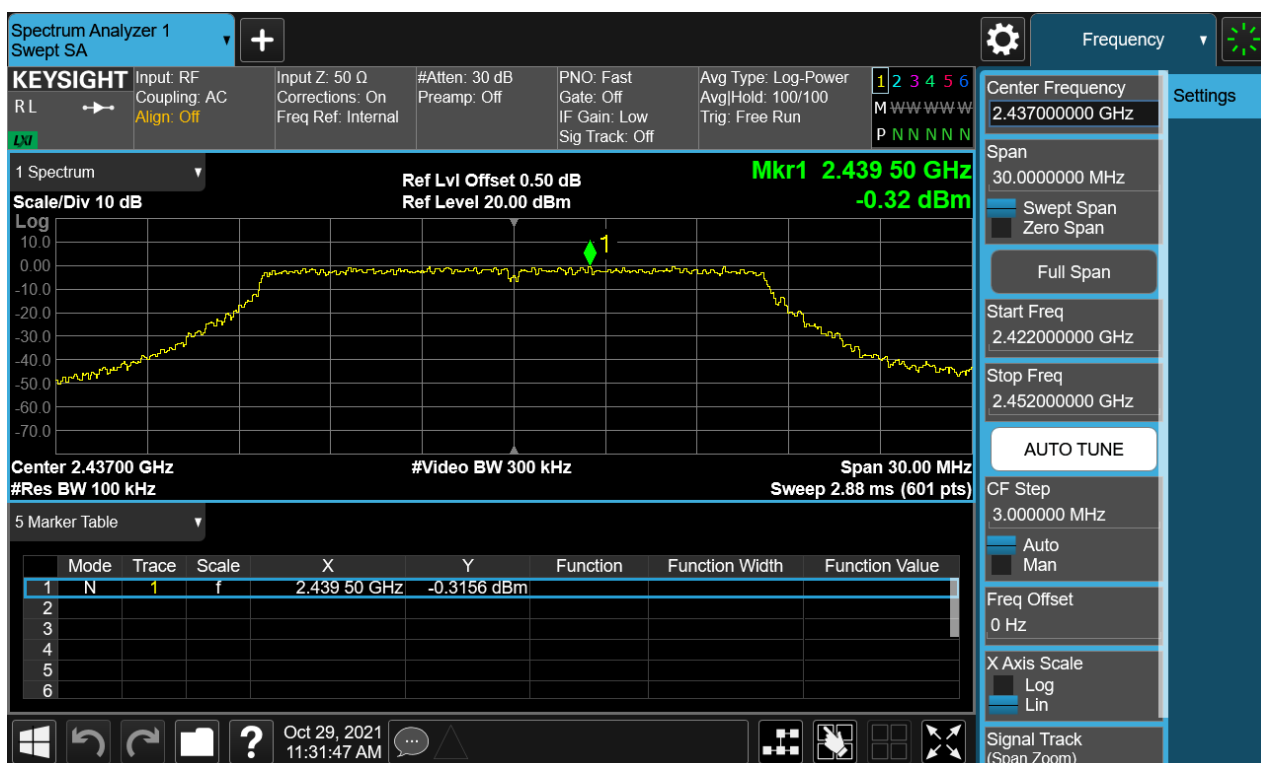


Figure 29: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



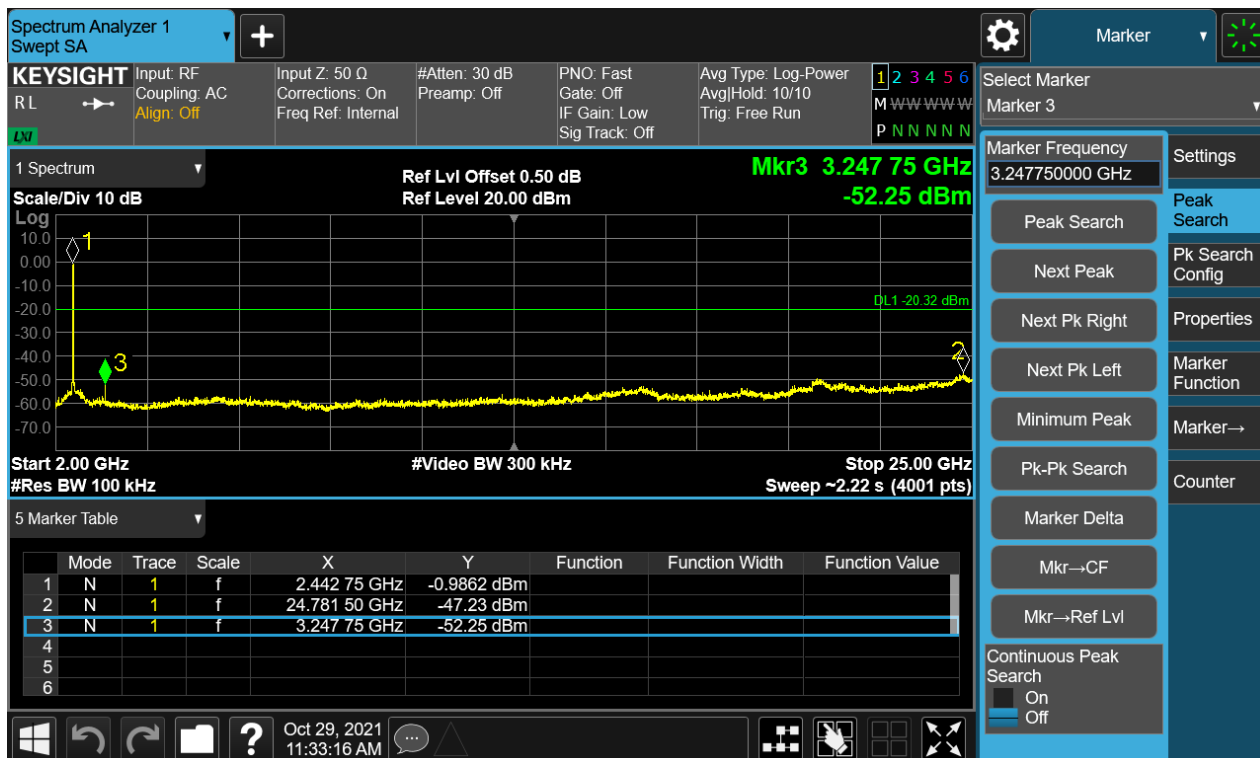
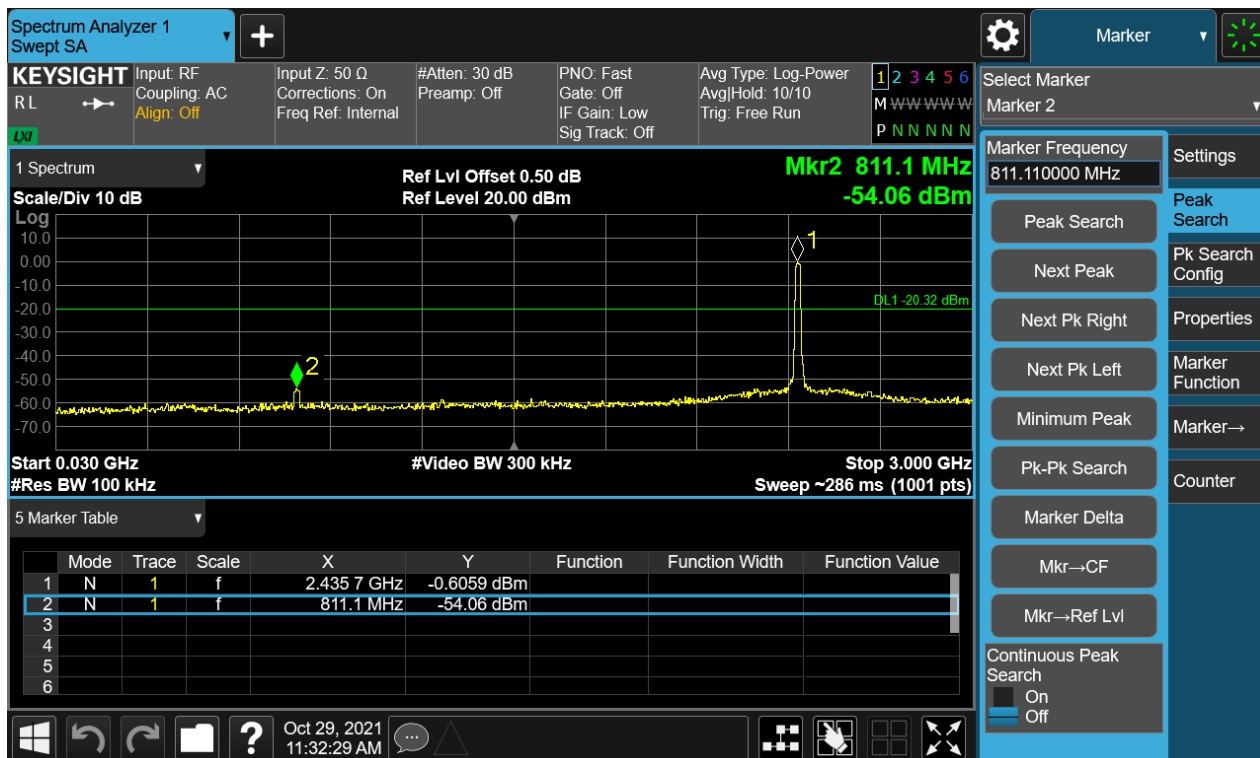
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Conducted spurious emissions 30MHz-25GHz



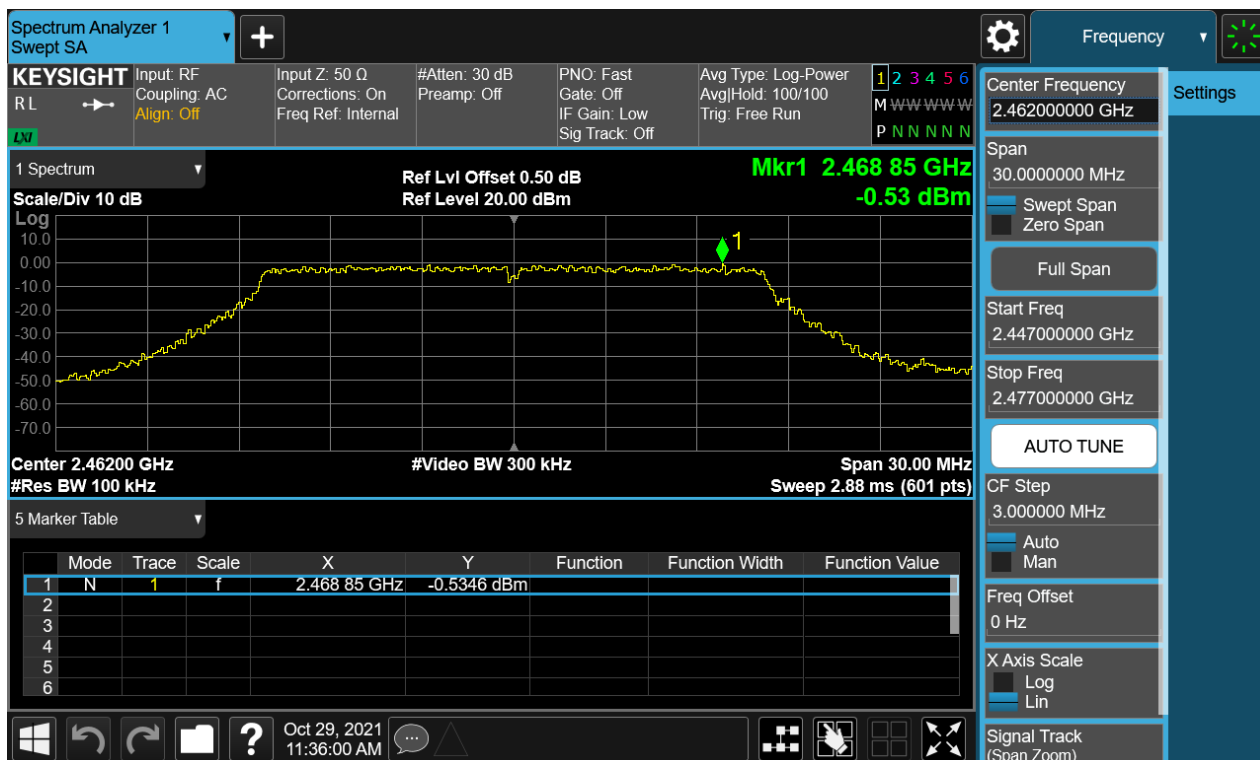
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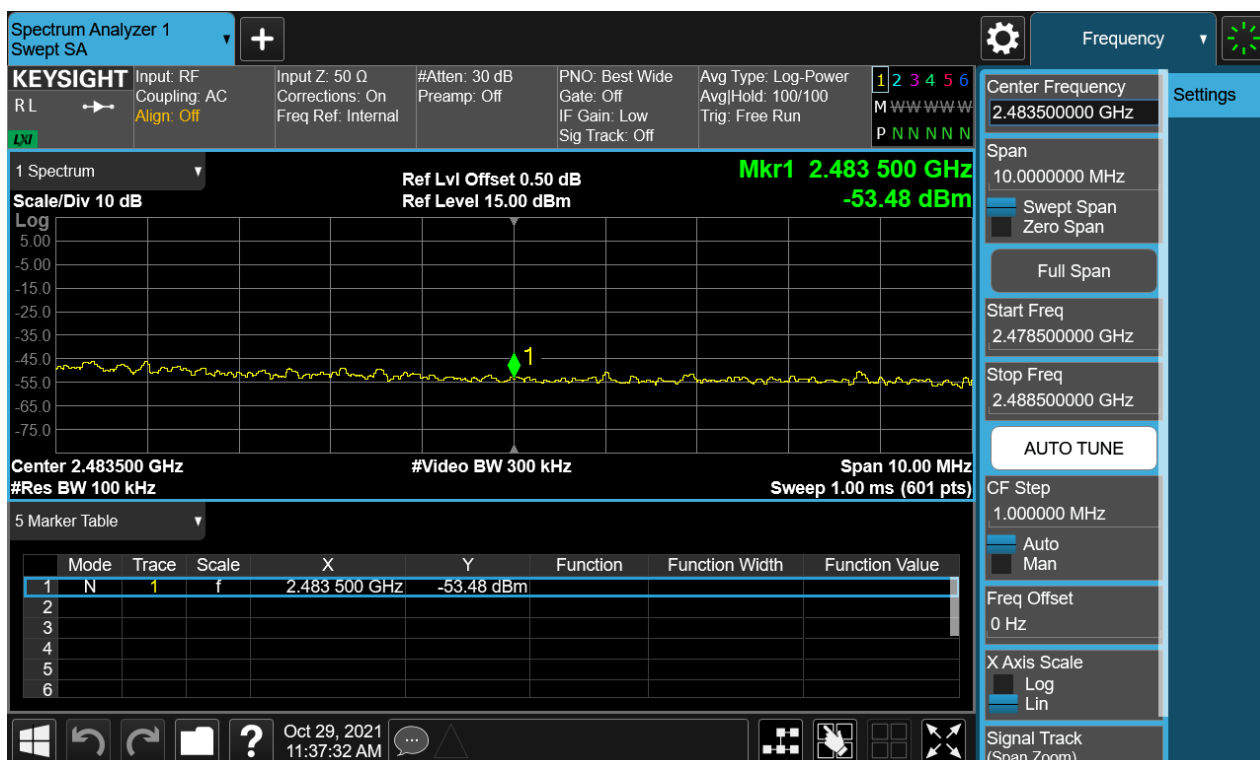
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Figure 30: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz
Carrier Level



Band Edge



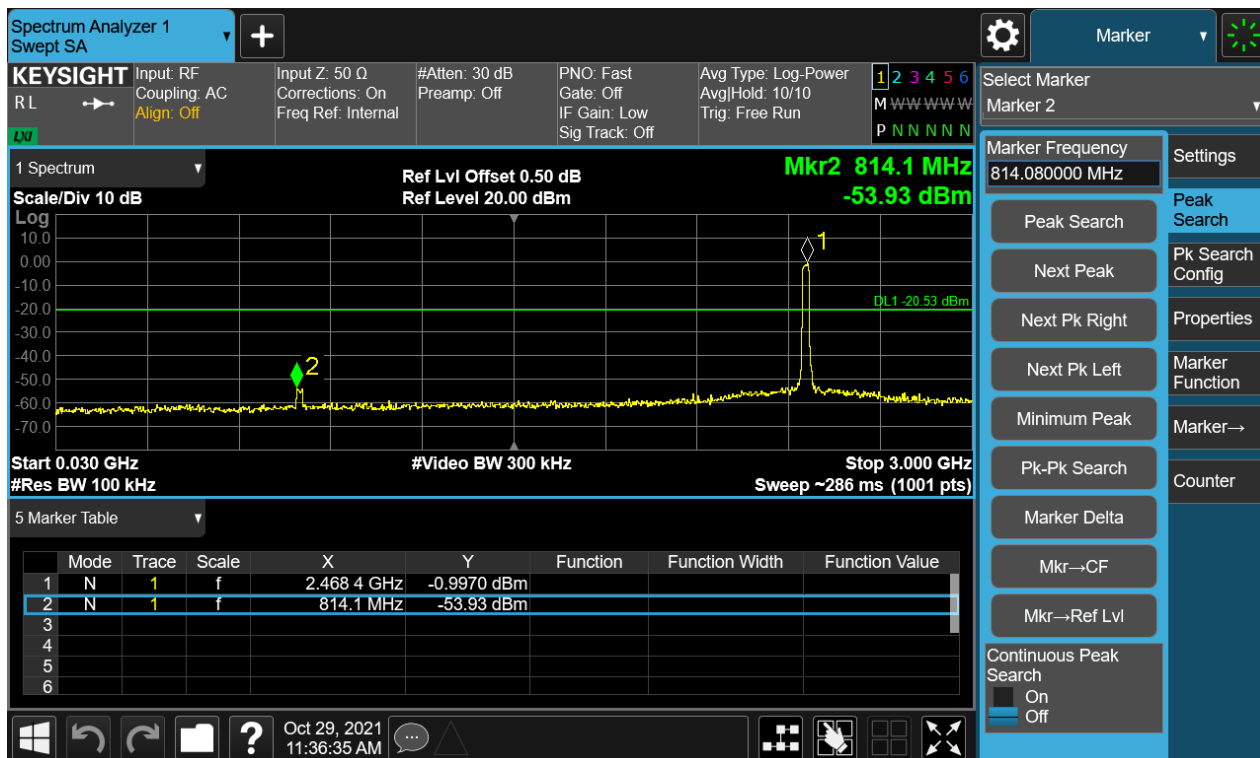
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Conducted spurious emissions 30MHz-25GHz



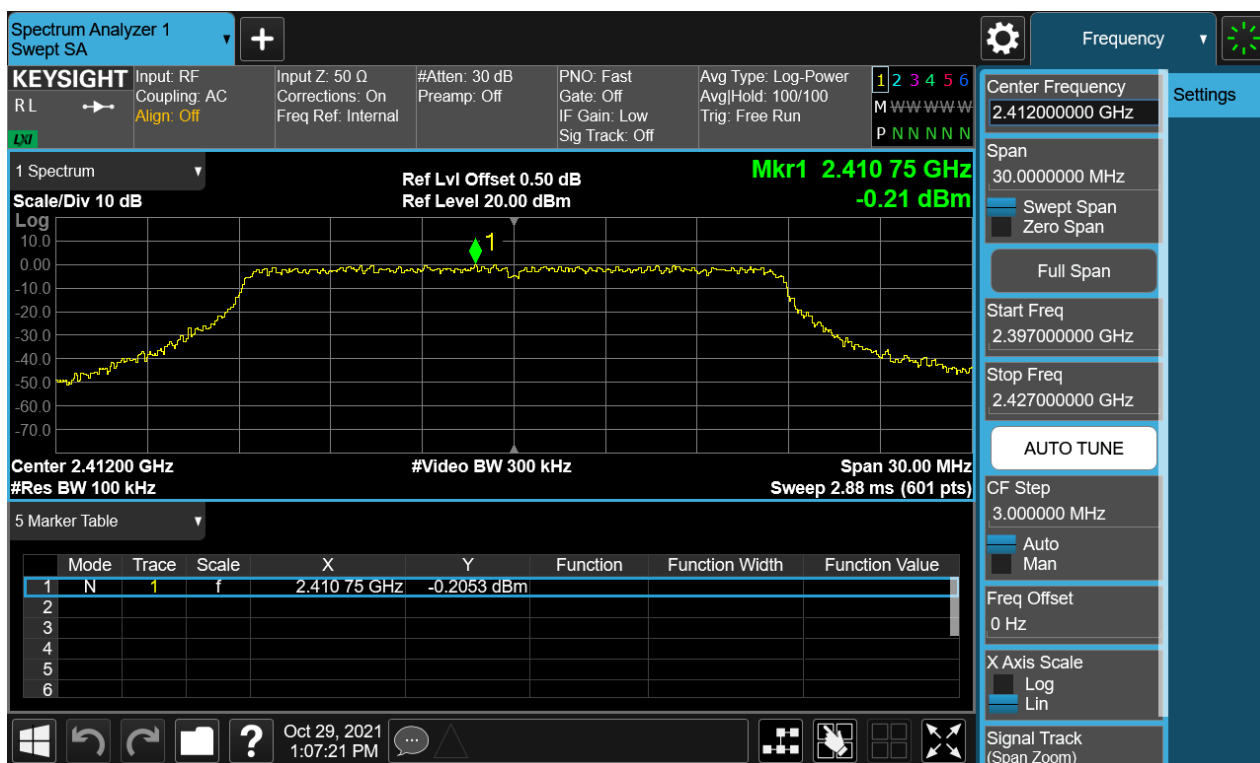
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Figure 31: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



Band Edge



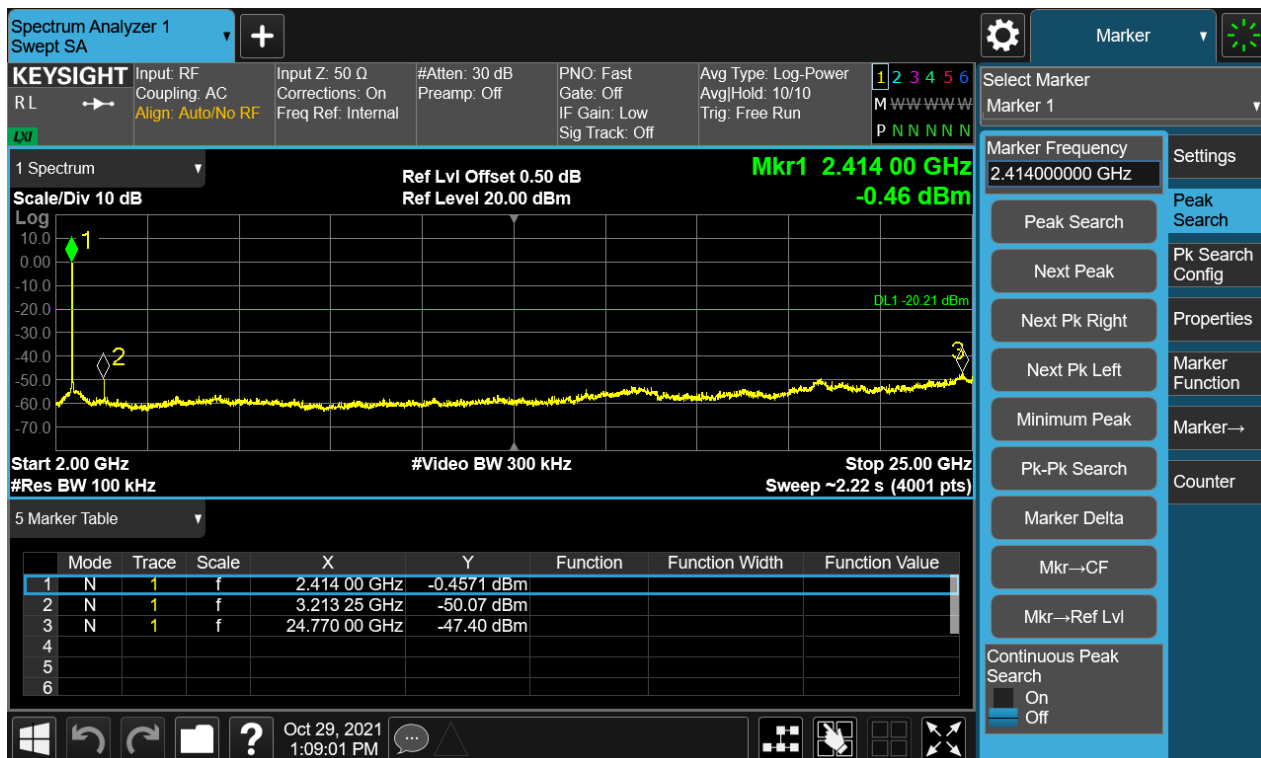
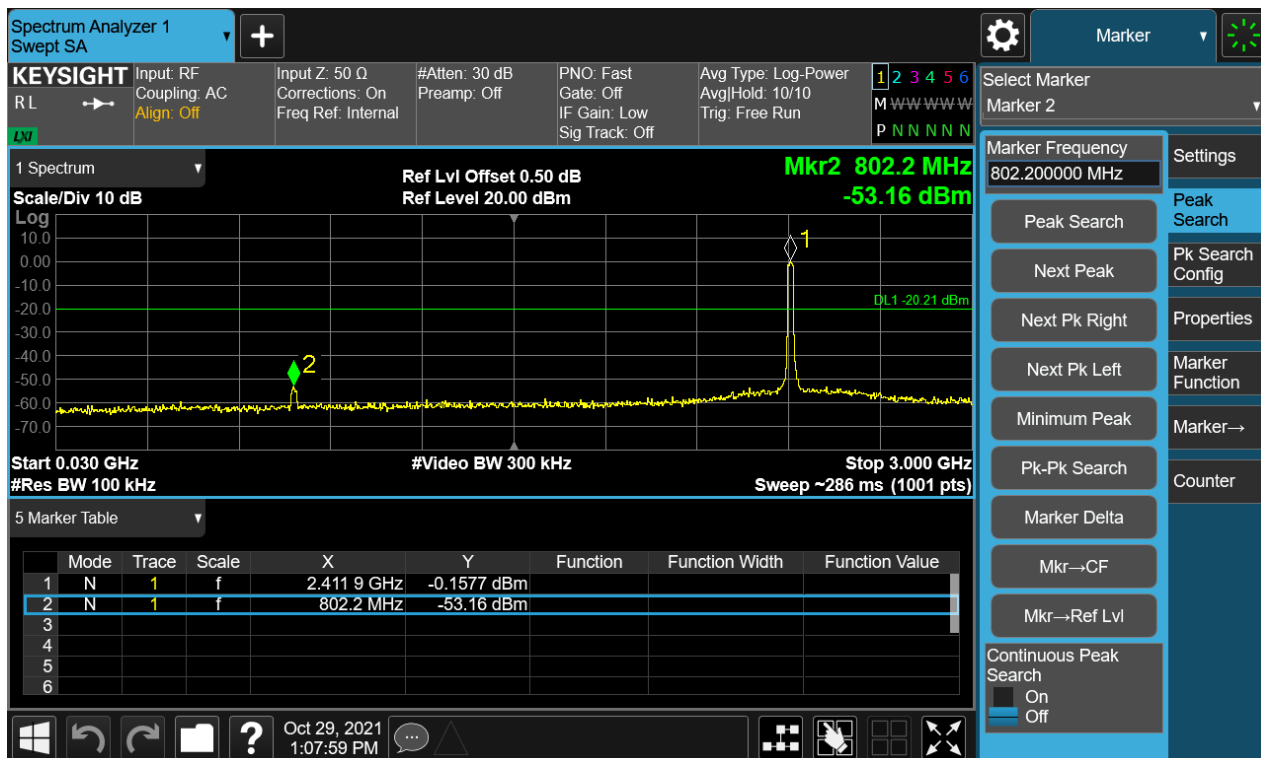
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Conducted spurious emissions 30MHz-25GHz



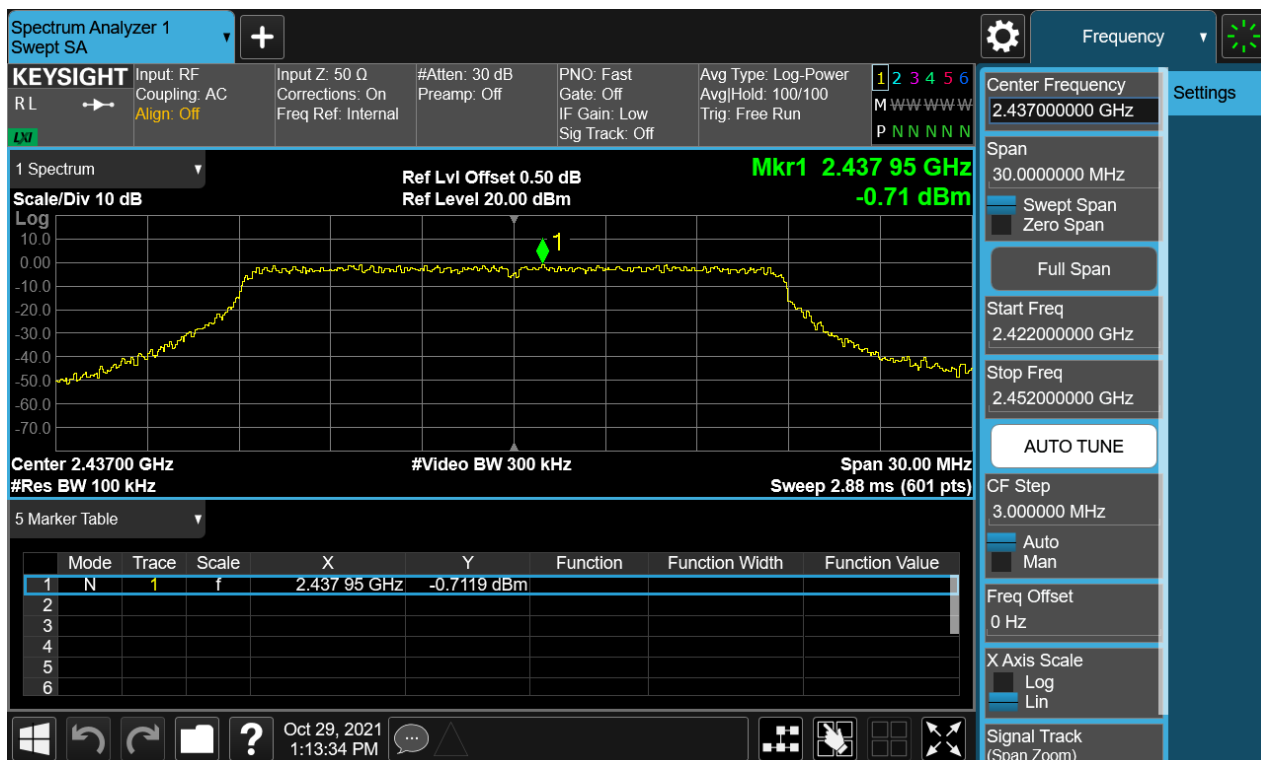
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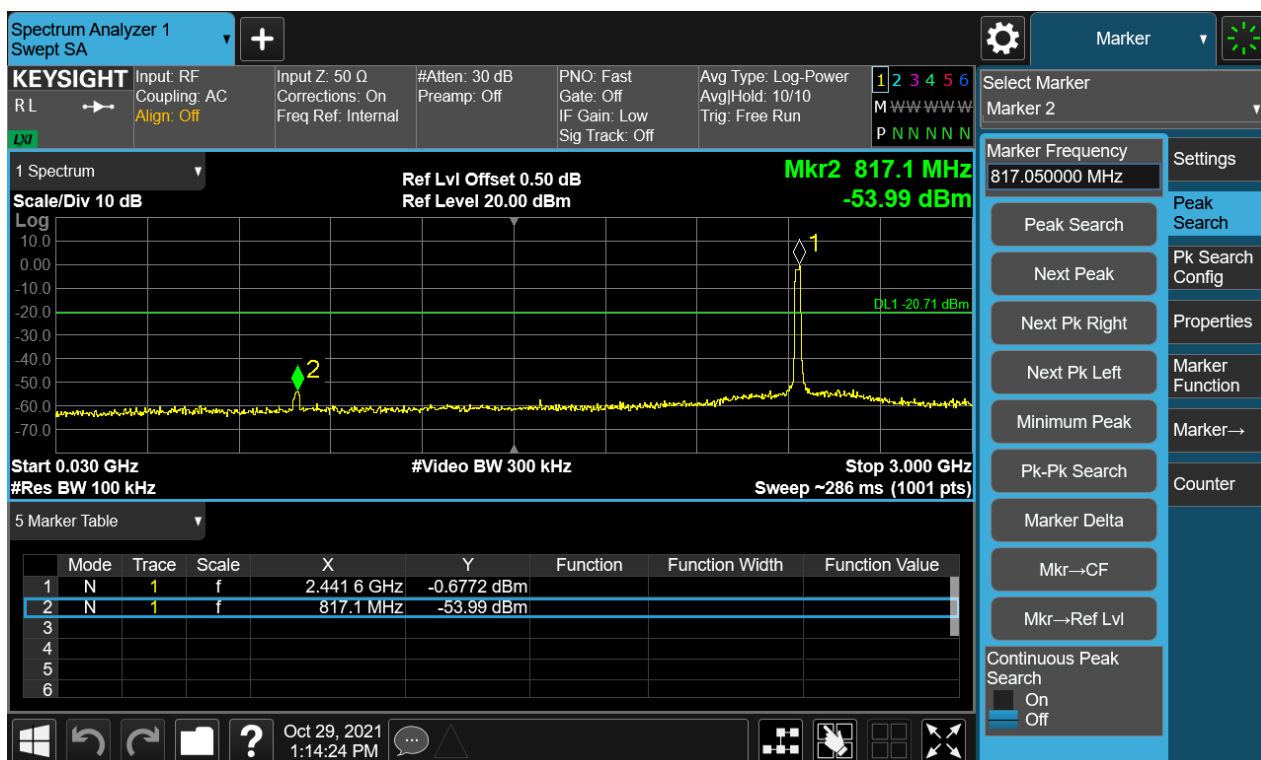
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Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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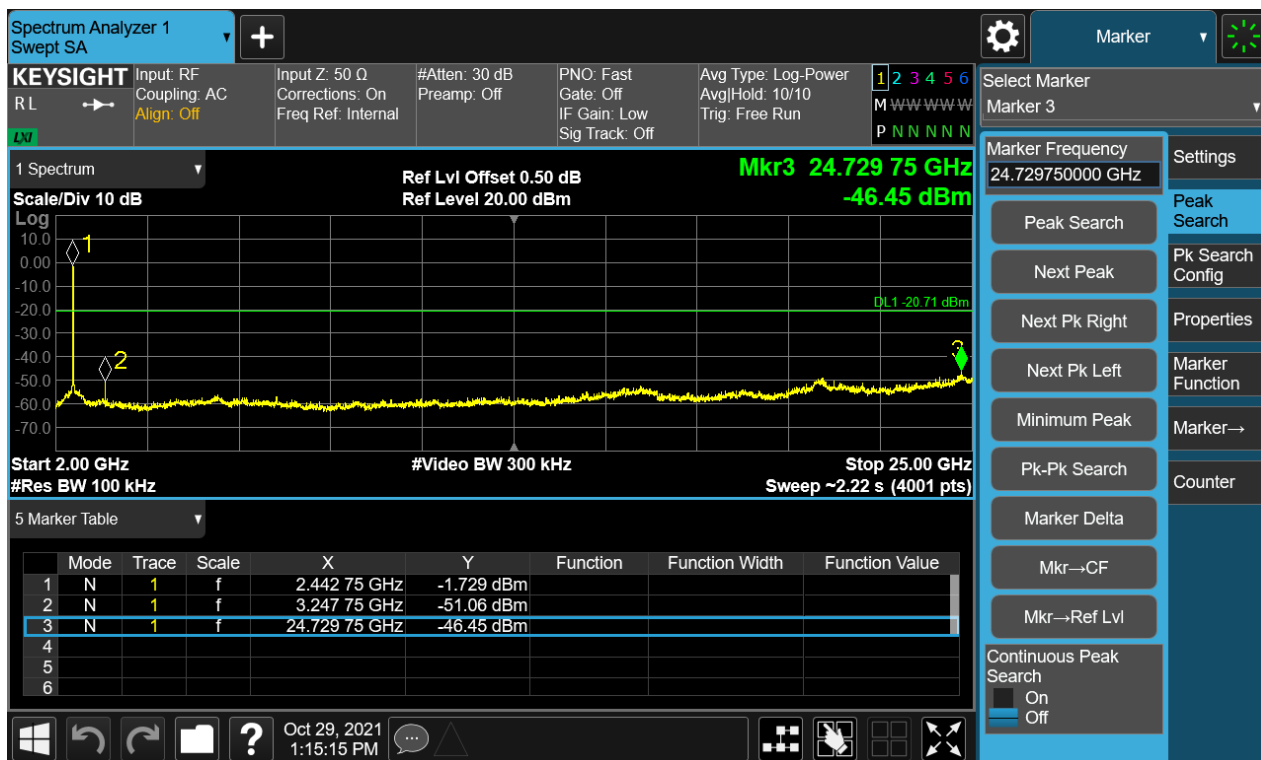


Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



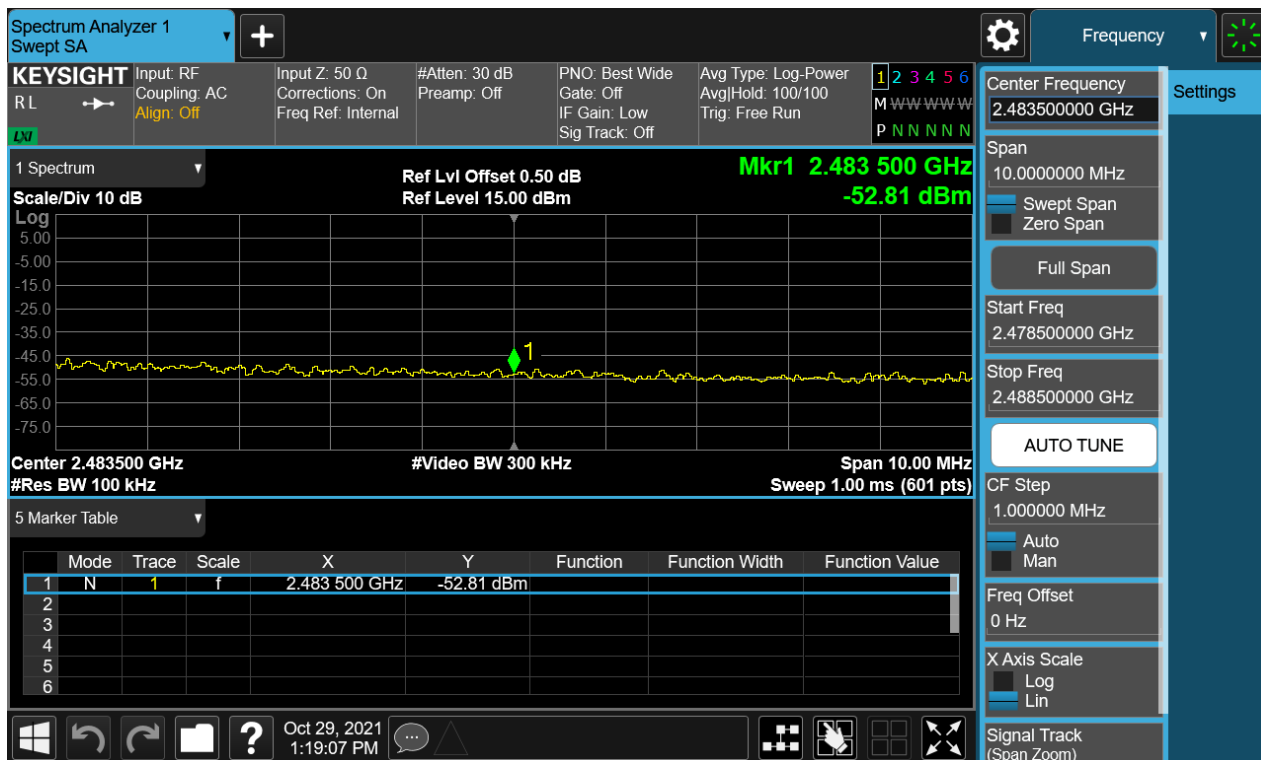
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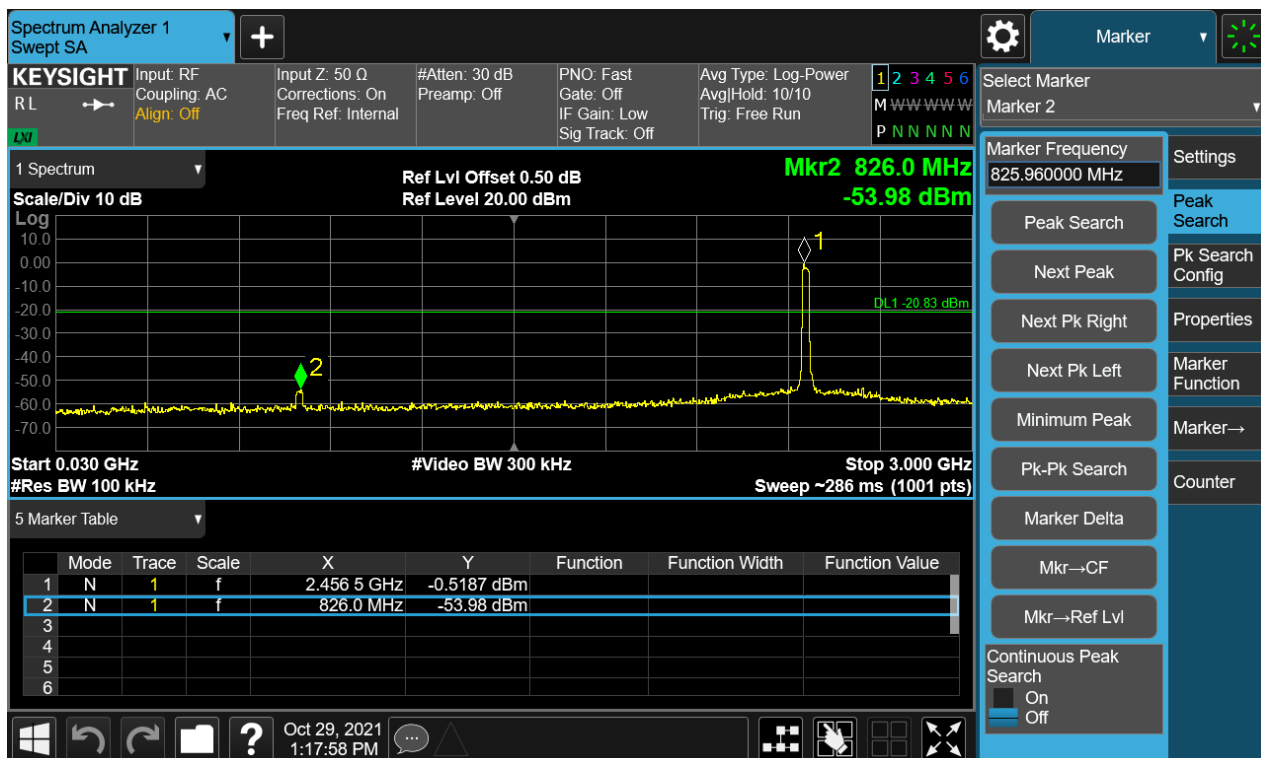
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Band Edge



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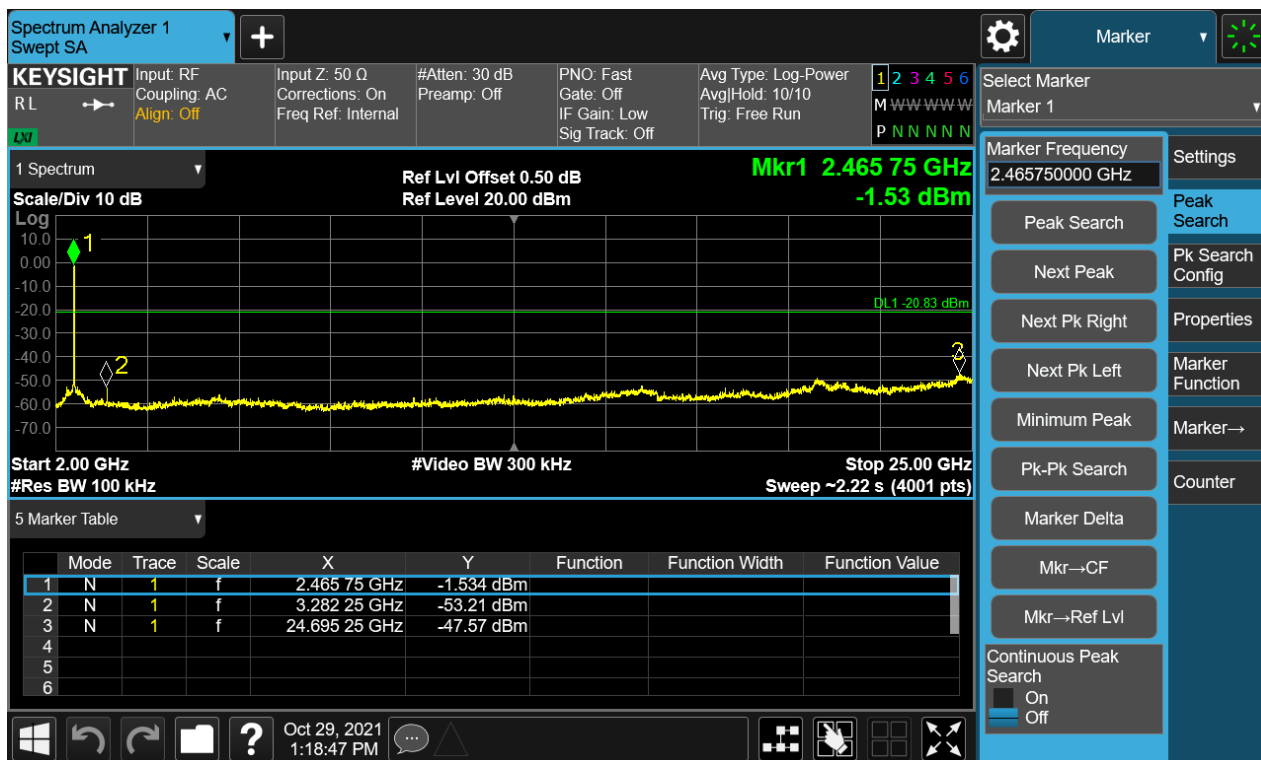


Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



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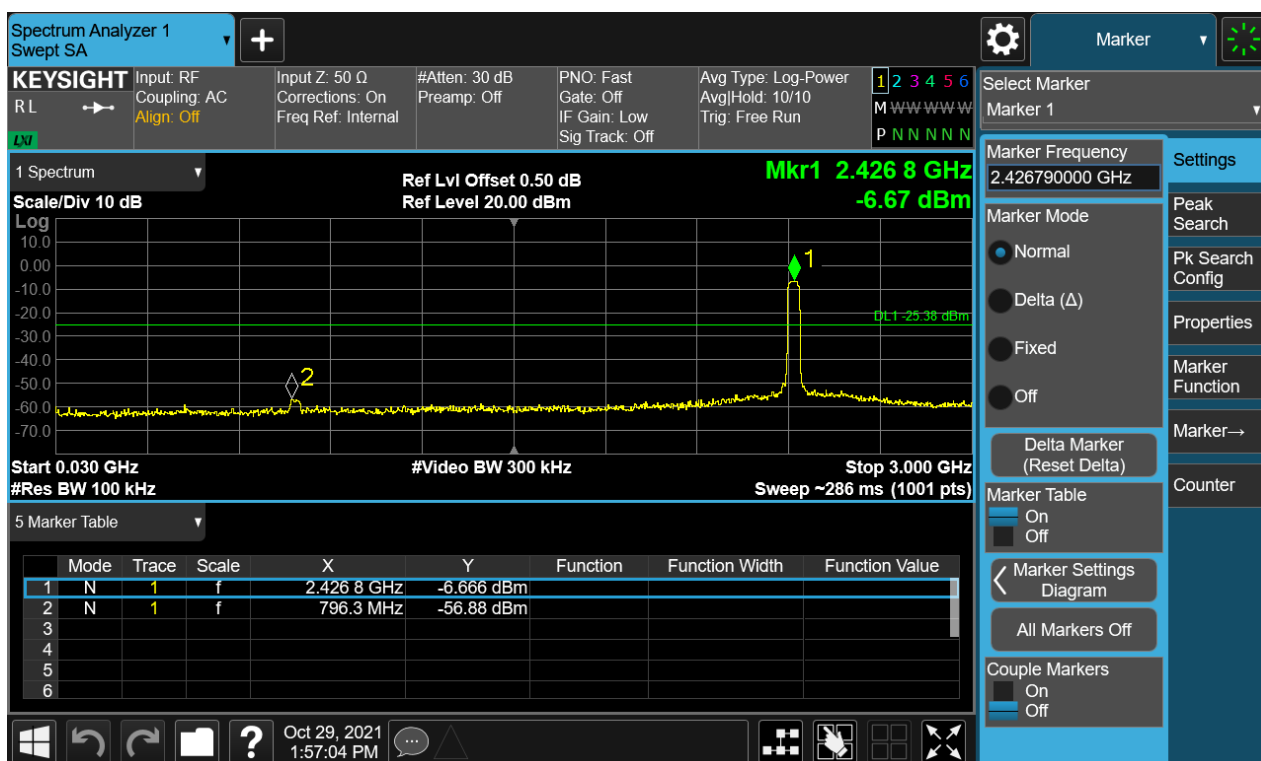
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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



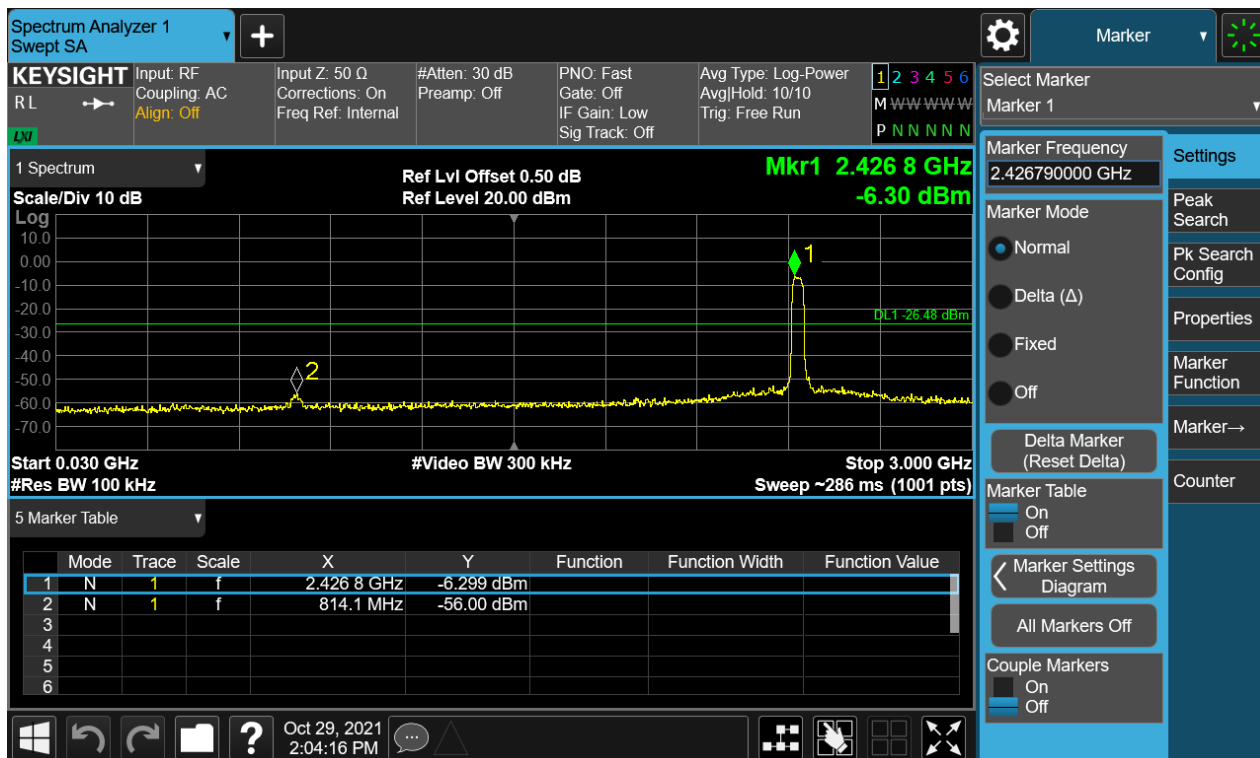
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Conducted spurious emissions 30MHz-25GHz



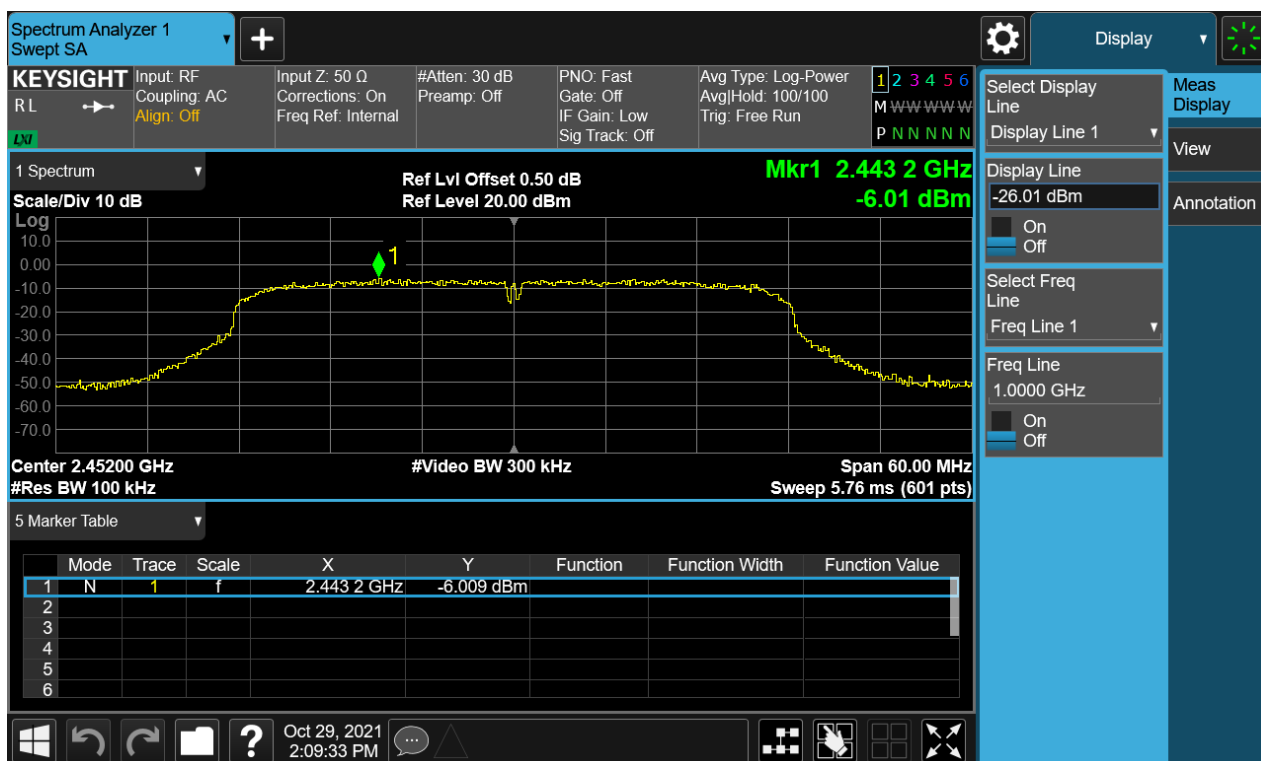
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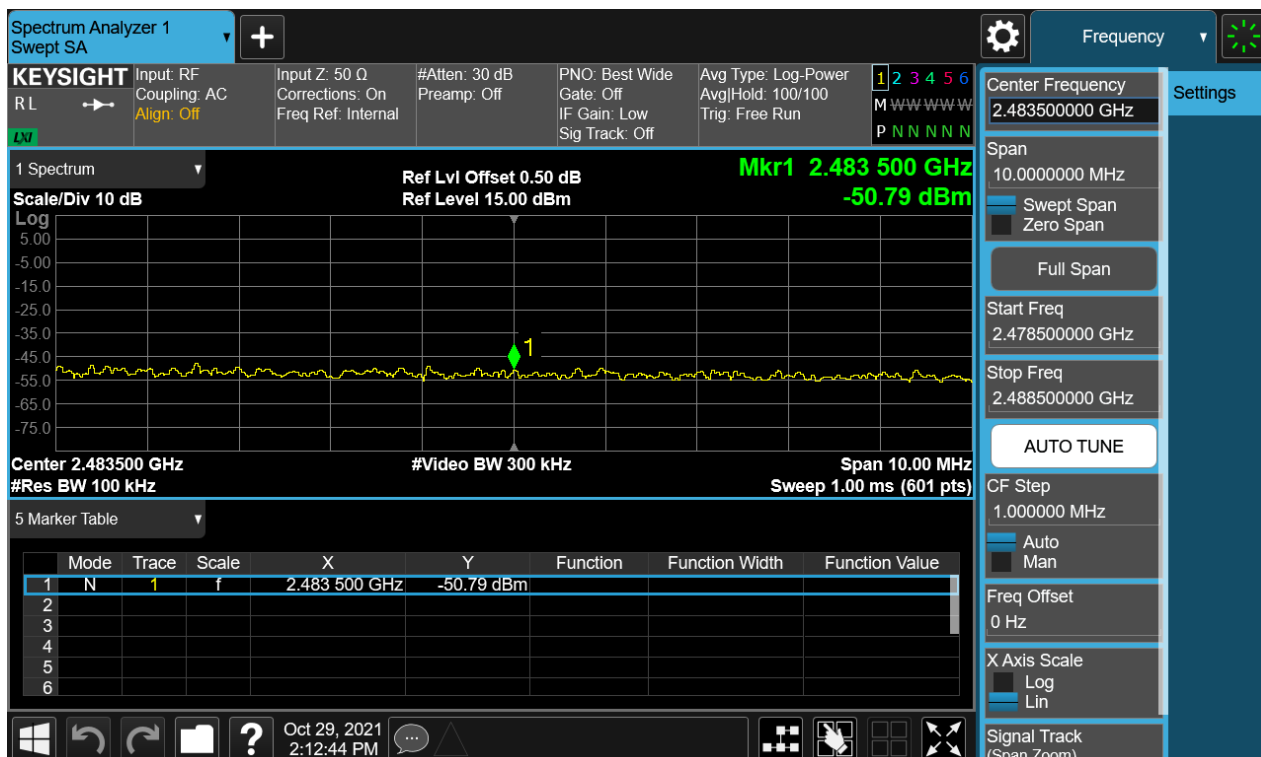
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



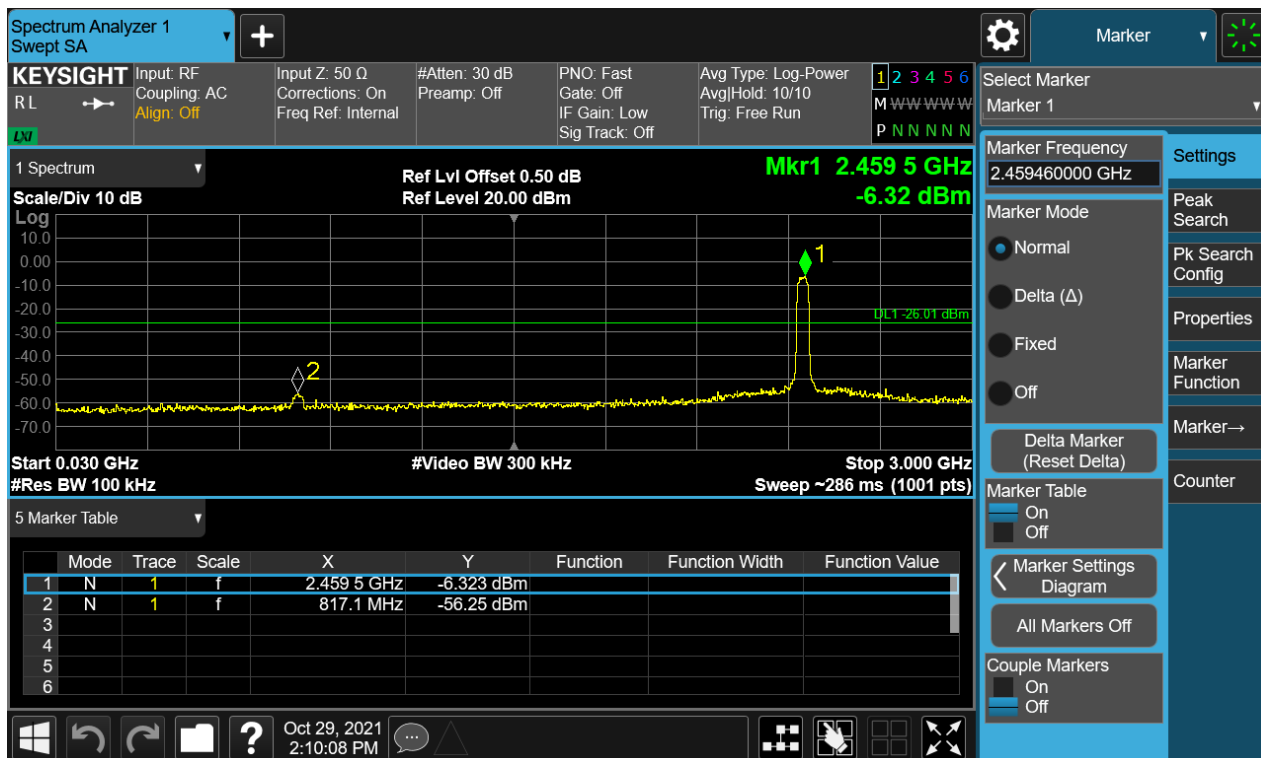
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Conducted spurious emissions 30MHz-25GHz



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4.1.6 Radiated Spurious Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
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	: 25°C
Relative humidity	: 54%

Notes

Test plots please refer to the annex document "SHE21100025-02CE 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
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	: 25°C
Relative humidity	: 54%

Notes:

Test plots please refer to the annex document "SHE21100025-02CE DATA WIFI 2.4GHz-TX EXHIBIT A".

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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
Kind of test site	: Shielded room

Test setup

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

For details refer to following test plot.

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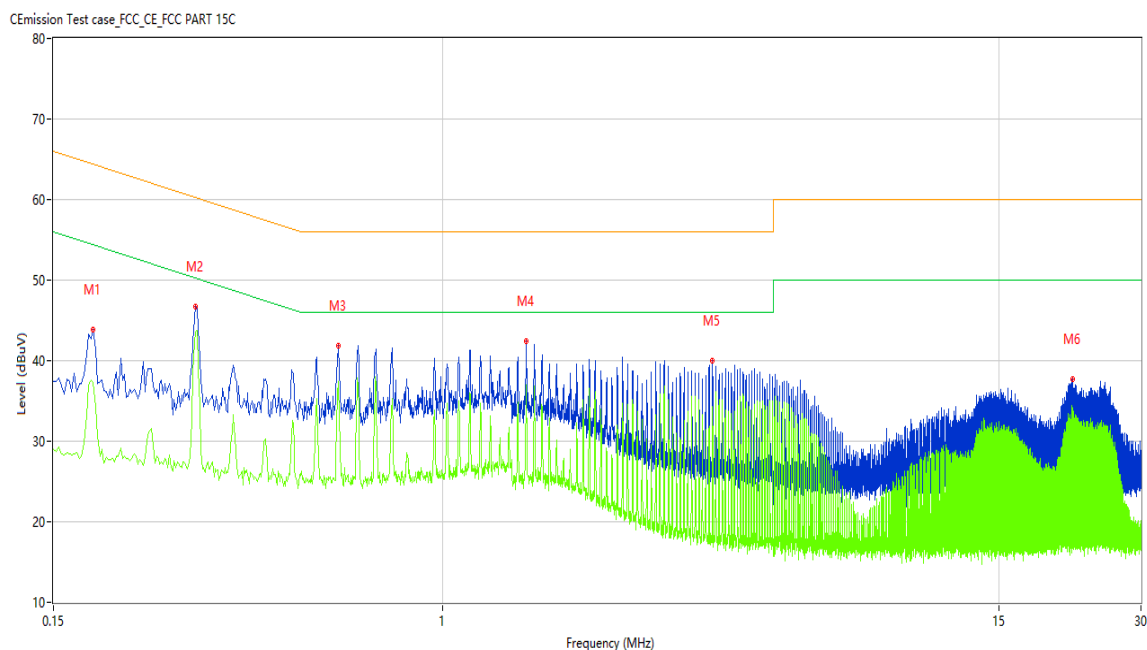
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Note: The all configurations were tested respectively, but only the worst configuration shown here.

Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.182	42.14	10.24	64.39	-22.25	Peak	L	Pass
1*	0.182	39.31	10.24	64.39	-25.08	QP	L	Pass
1**	0.182	37.25	10.24	54.39	-17.14	AV	L	Pass
2	0.300	45.98	10.21	60.24	-14.26	Peak	L	Pass
2*	0.300	44.43	10.21	60.24	-15.81	QP	L	Pass
2**	0.300	43.55	10.21	50.24	-6.69	AV	L	Pass
3	0.602	39.64	10.31	56.00	-16.36	Peak	L	Pass
3*	0.602	37.61	10.31	56.00	-18.39	QP	L	Pass
3**	0.602	36.52	10.31	46.00	-9.48	AV	L	Pass
4	1.502	40.23	10.18	56.00	-15.77	Peak	L	Pass
4*	1.502	37.35	10.18	56.00	-18.65	QP	L	Pass
4**	1.502	36.94	10.18	46.00	-9.06	AV	L	Pass
5	3.720	39.99	10.19	56.00	-16.01	Peak	L	Pass
5*	3.720	38.02	10.19	56.00	-17.98	QP	L	Pass
5**	3.720	34.35	10.19	46.00	-11.65	AV	L	Pass
6	21.550	36.70	10.99	60.00	-23.30	Peak	L	Pass
6*	21.550	33.67	10.99	60.00	-26.33	QP	L	Pass
6**	21.550	34.11	10.99	50.00	-15.89	AV	L	Pass

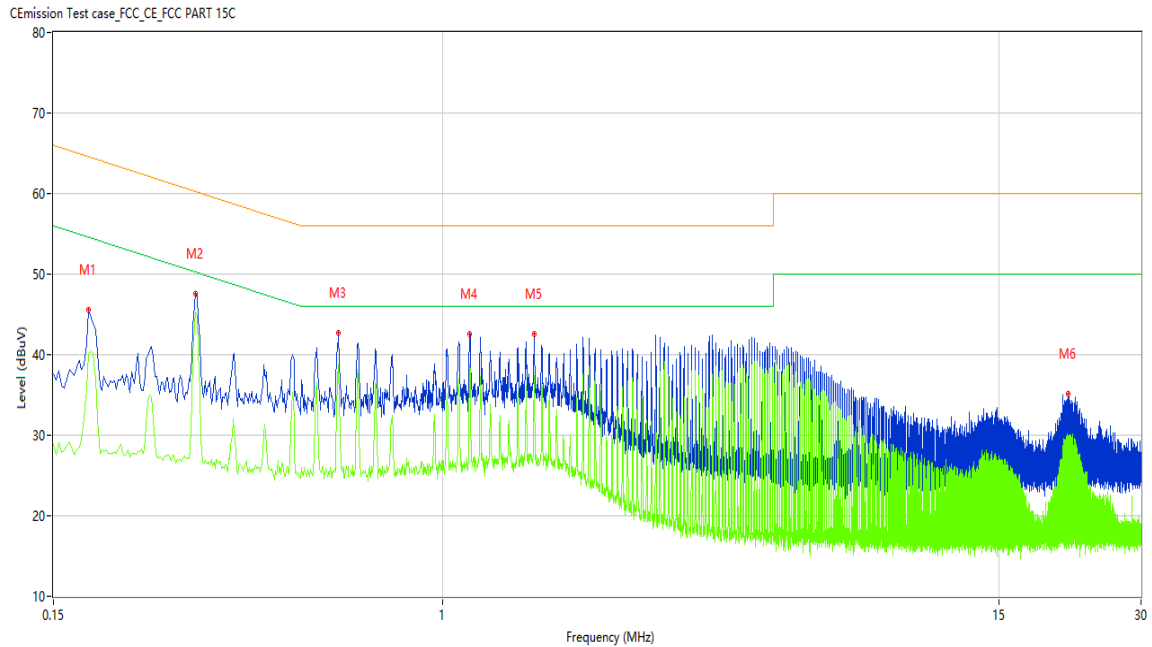
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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.178	44.33	10.24	64.58	-20.25	Peak	N	Pass
1*	0.178	41.58	10.24	64.58	-23.00	QP	N	Pass
1**	0.178	40.19	10.24	54.58	-14.39	AV	N	Pass
2	0.300	47.16	10.21	60.24	-13.08	Peak	N	Pass
2*	0.300	45.65	10.21	60.24	-14.59	QP	N	Pass
2**	0.300	45.24	10.21	50.24	-5.00	AV	N	Pass
3	0.602	40.66	10.31	56.00	-15.34	Peak	N	Pass
3*	0.602	38.25	10.31	56.00	-17.75	QP	N	Pass
3**	0.602	38.04	10.31	46.00	-7.96	AV	N	Pass
4	1.140	41.17	10.19	56.00	-14.83	Peak	N	Pass
4*	1.140	39.24	10.19	56.00	-16.76	QP	N	Pass
4**	1.140	38.65	10.19	46.00	-7.35	AV	N	Pass
5	1.562	39.73	10.18	56.00	-16.27	Peak	N	Pass
5*	1.562	37.38	10.18	56.00	-18.62	QP	N	Pass
5**	1.562	36.71	10.18	46.00	-9.29	AV	N	Pass
6	20.998	33.29	10.98	60.00	-26.71	Peak	N	Pass
6*	20.998	29.80	10.98	60.00	-30.20	QP	N	Pass
6**	20.998	29.52	10.98	50.00	-20.48	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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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