

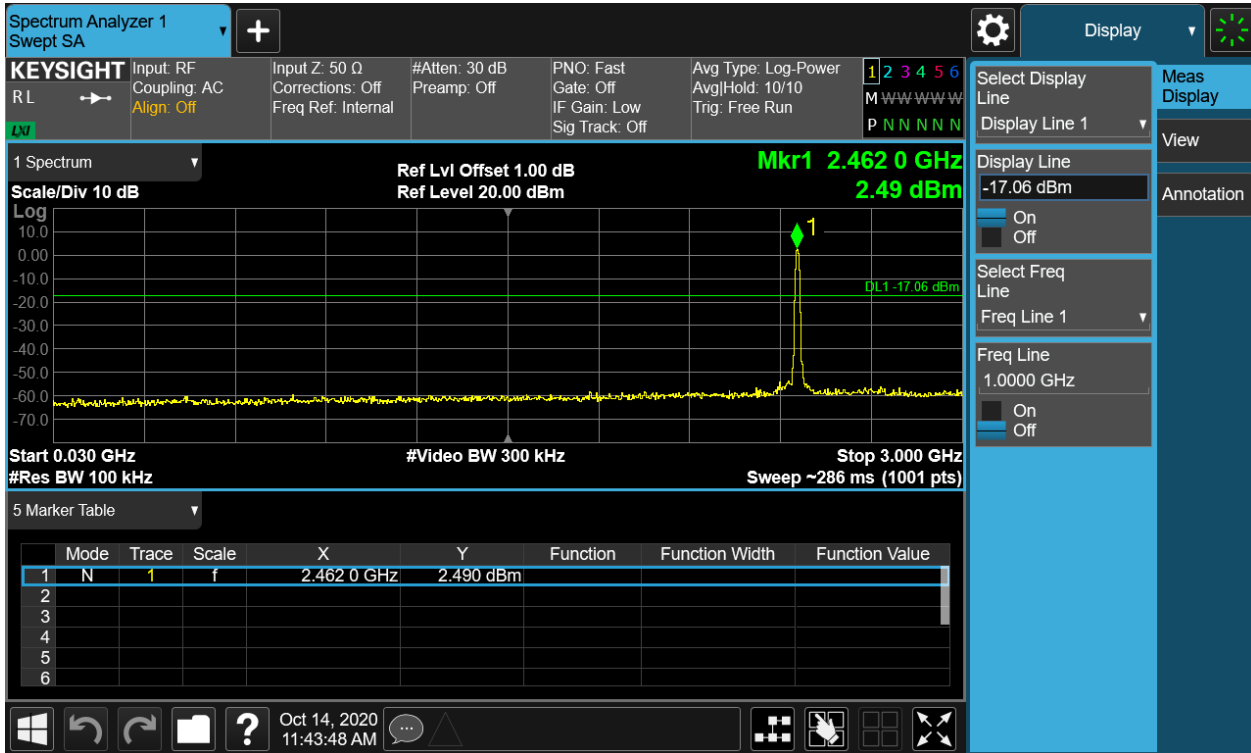
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Conducted spurious emissions 30MHz-25GHz



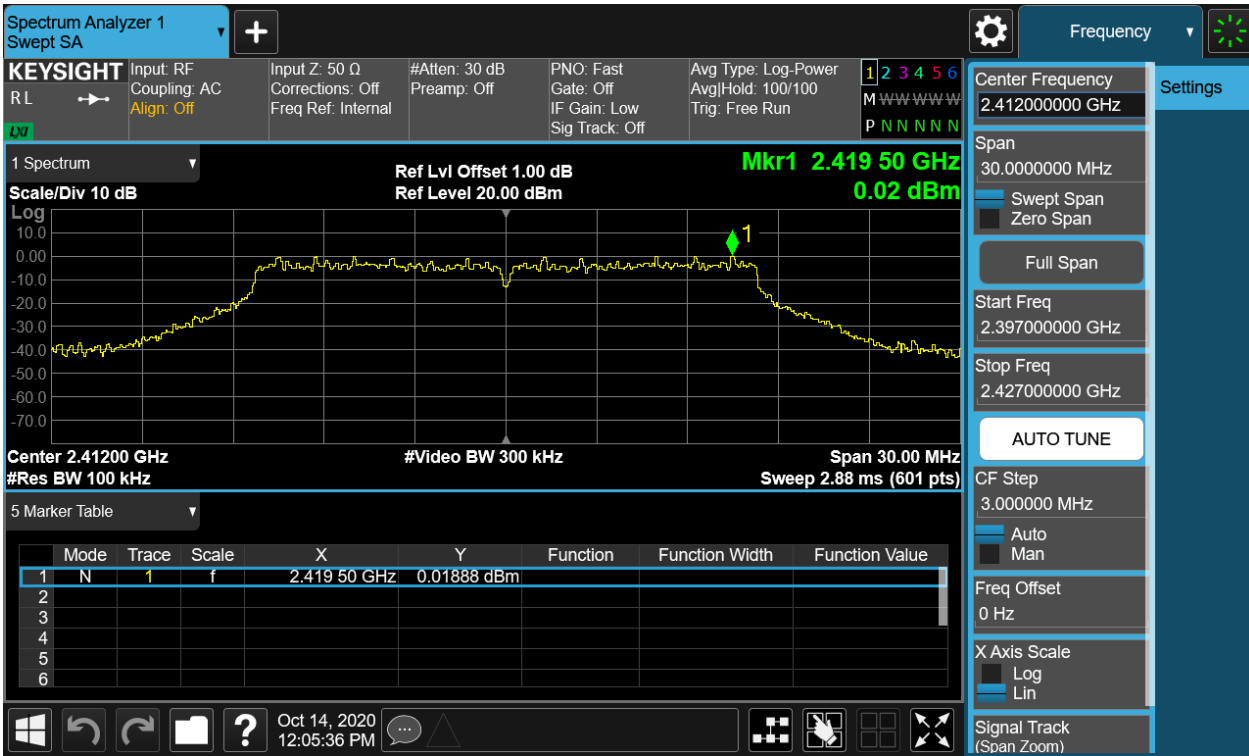
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Figure 28: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



Band Edge



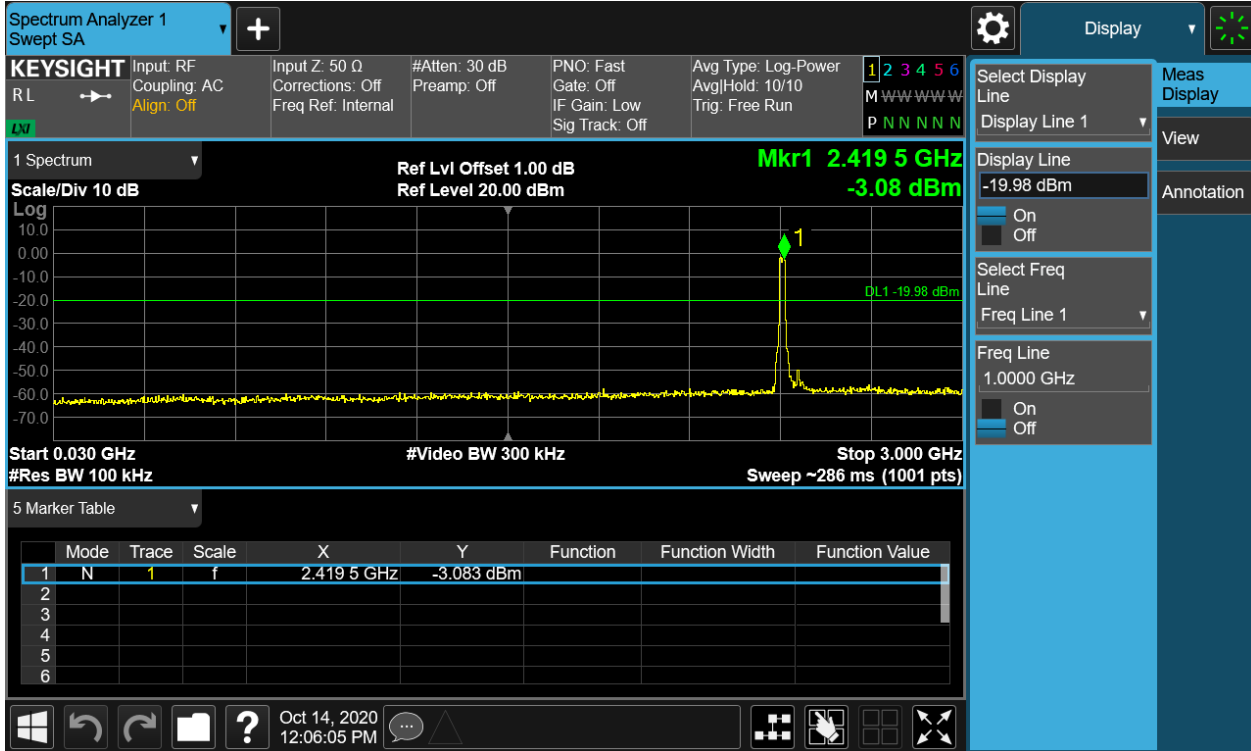
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Conducted spurious emissions 30MHz-25GHz



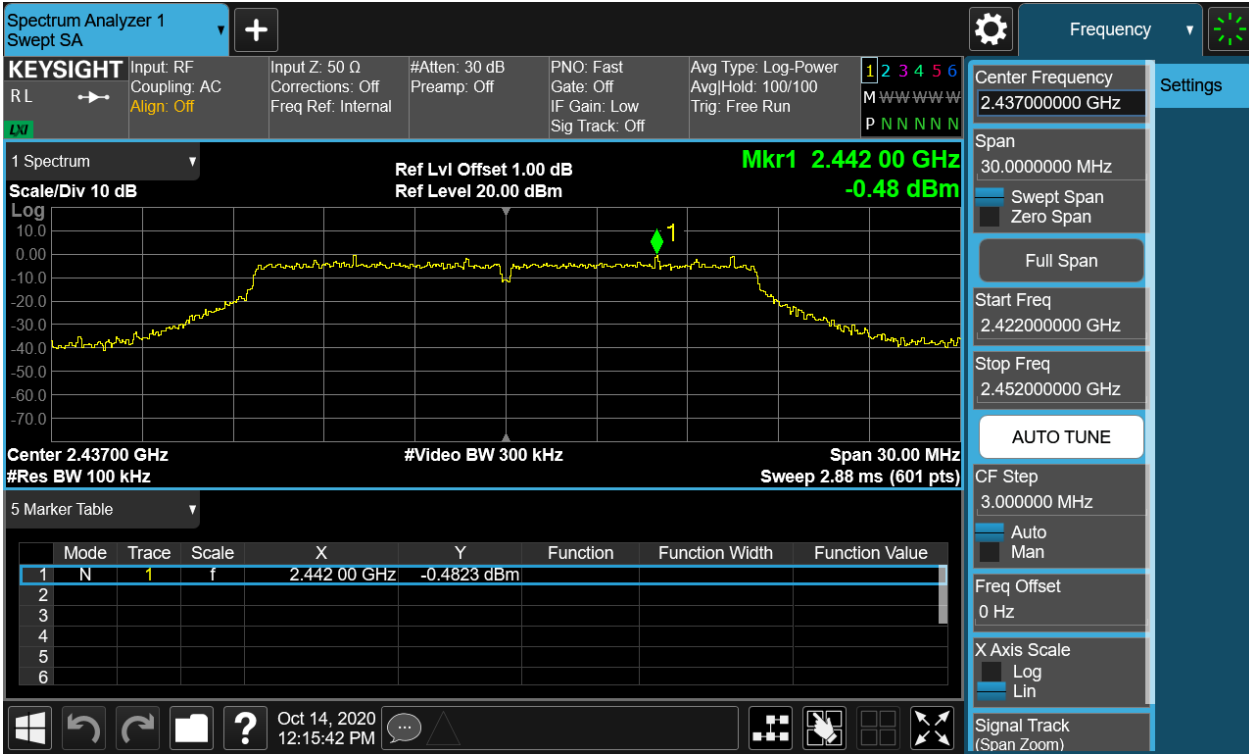
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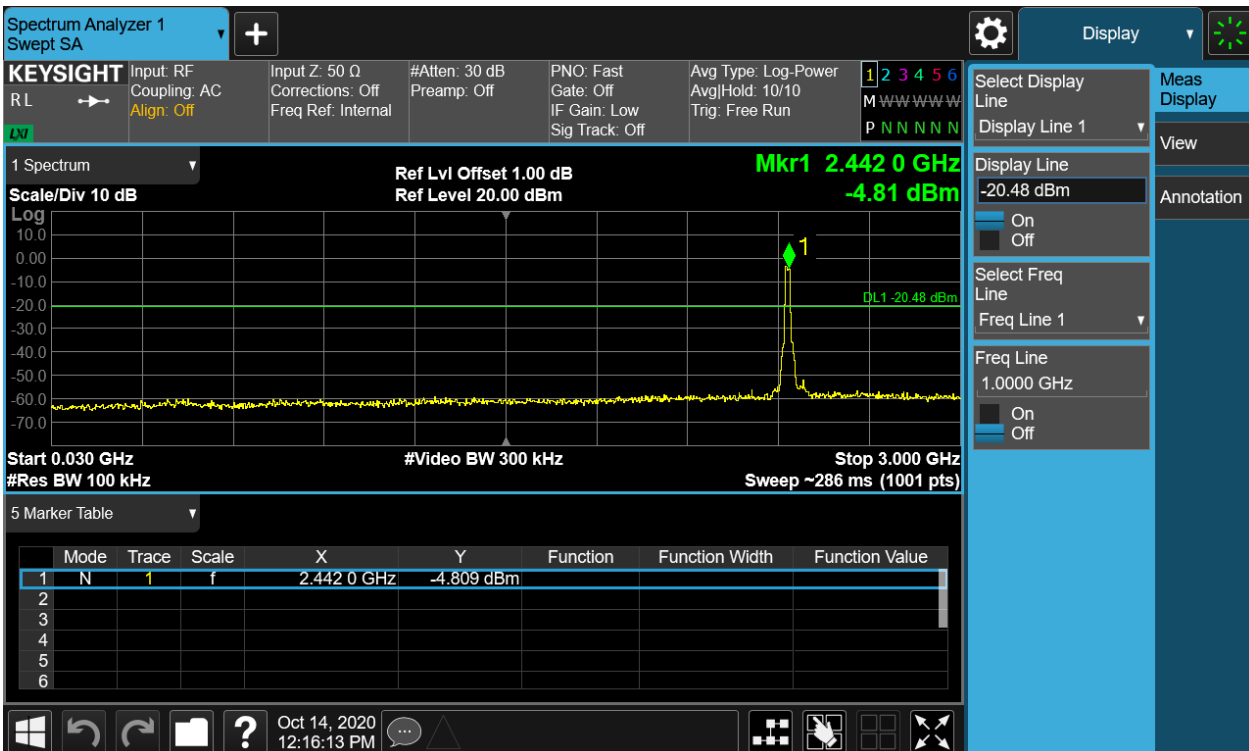
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Figure 29: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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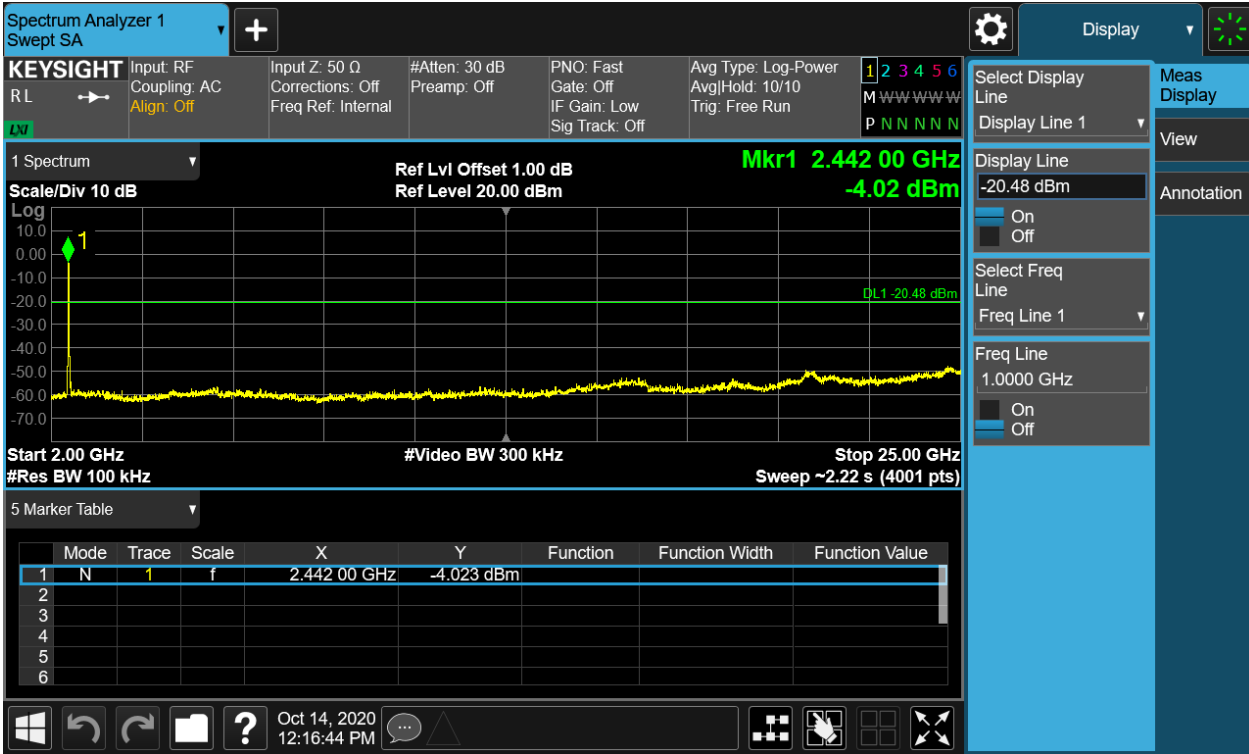
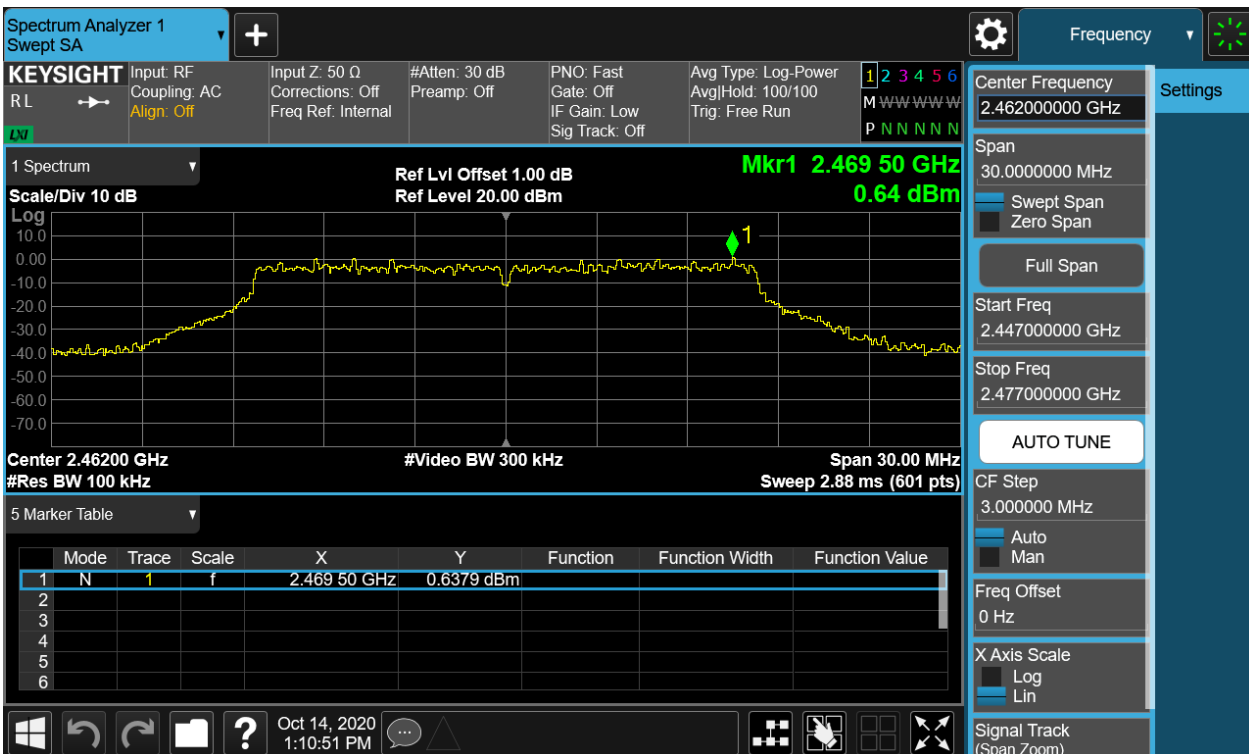


Figure 30: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



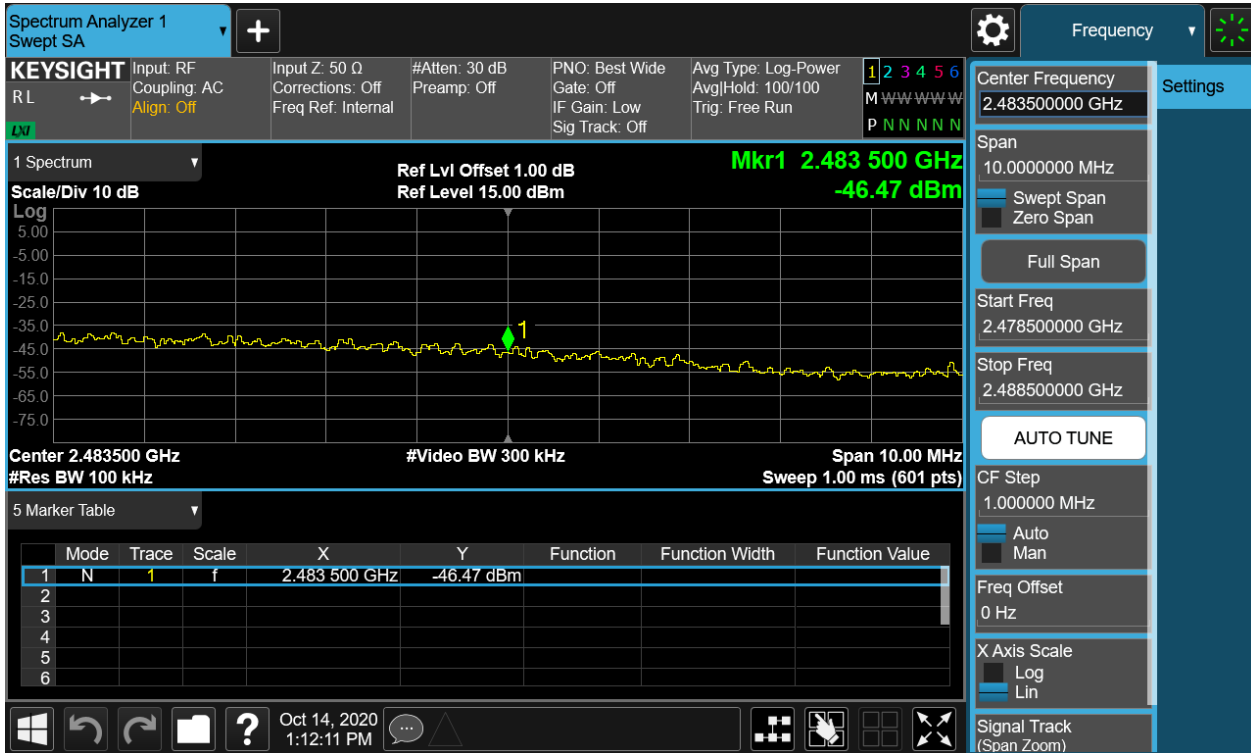
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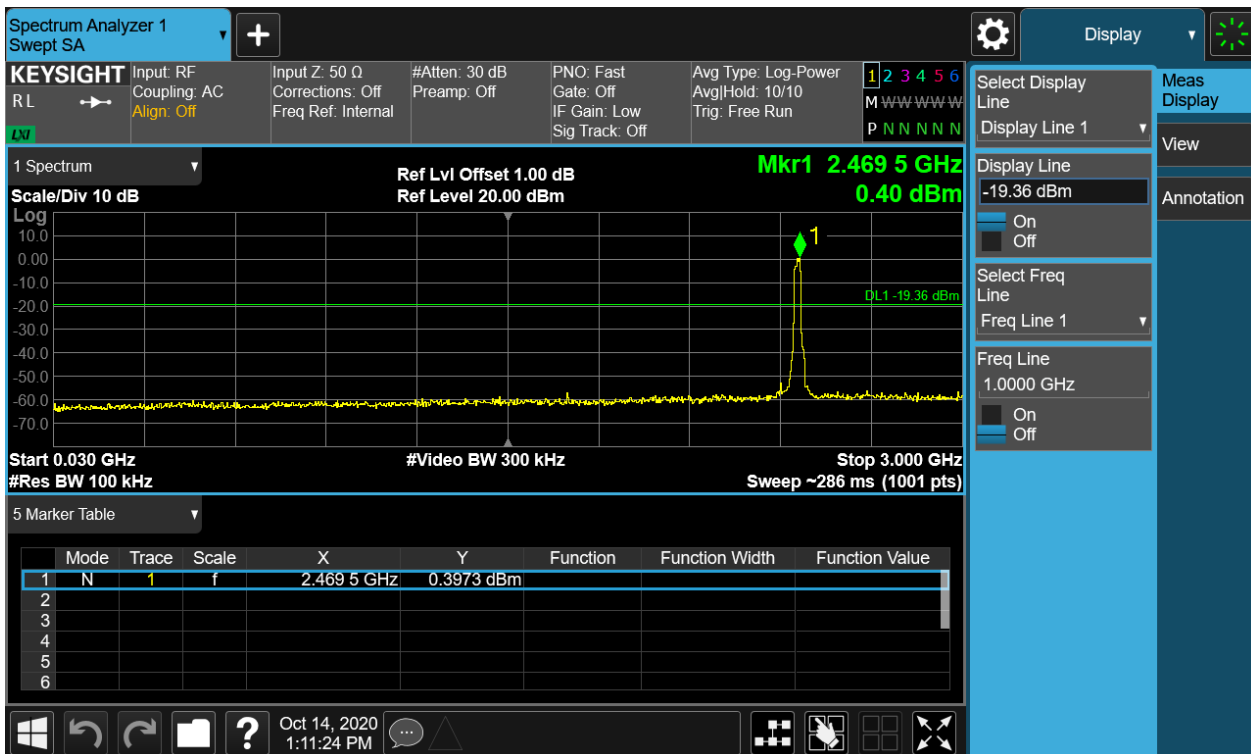
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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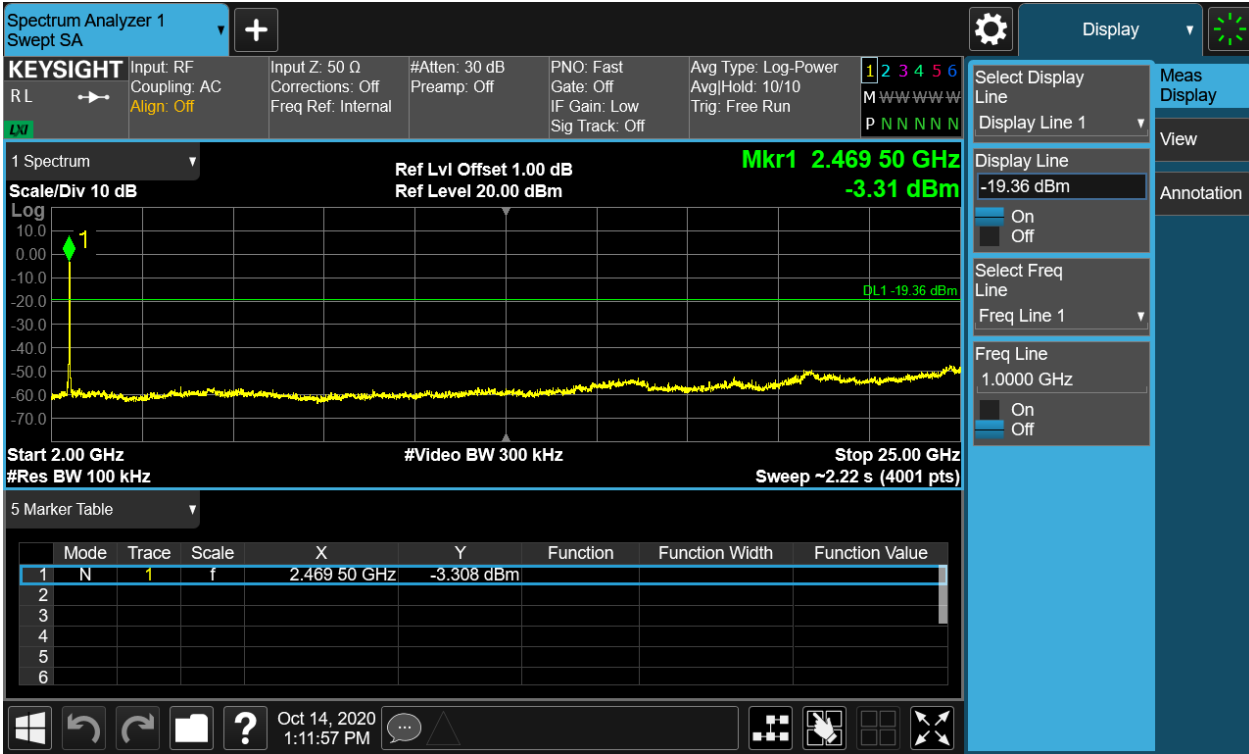
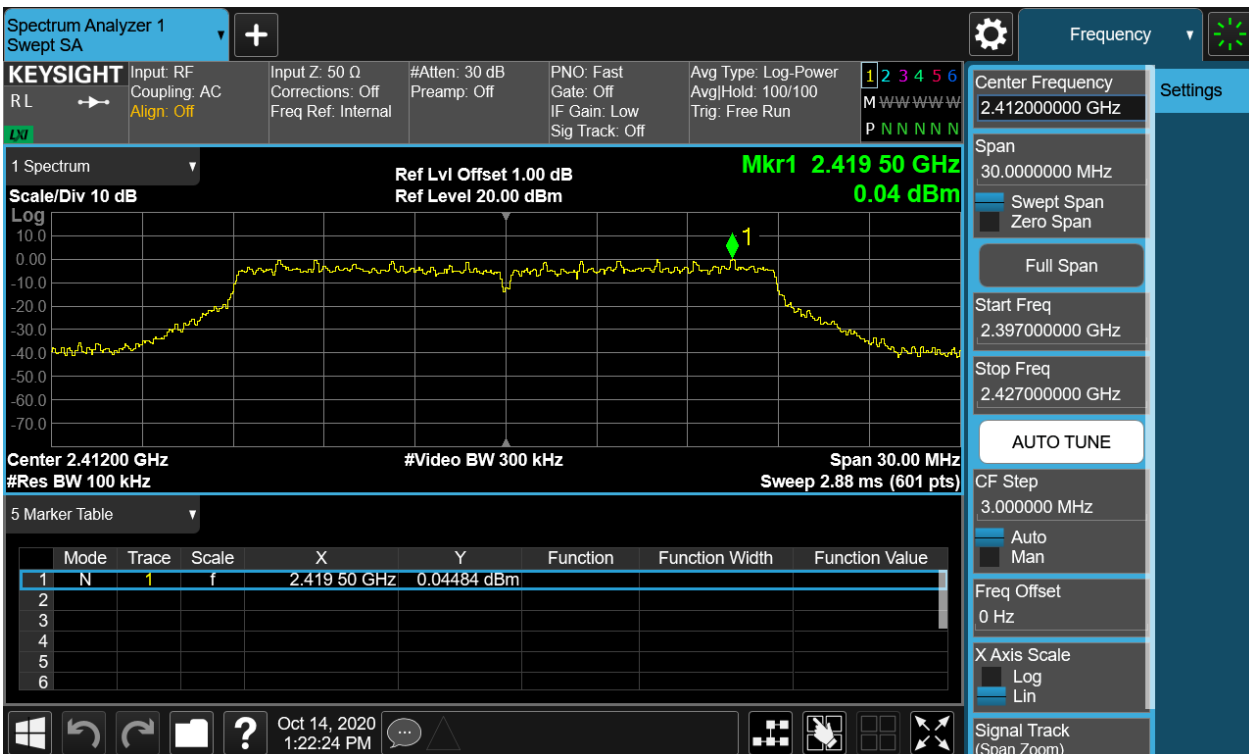


Figure 31: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



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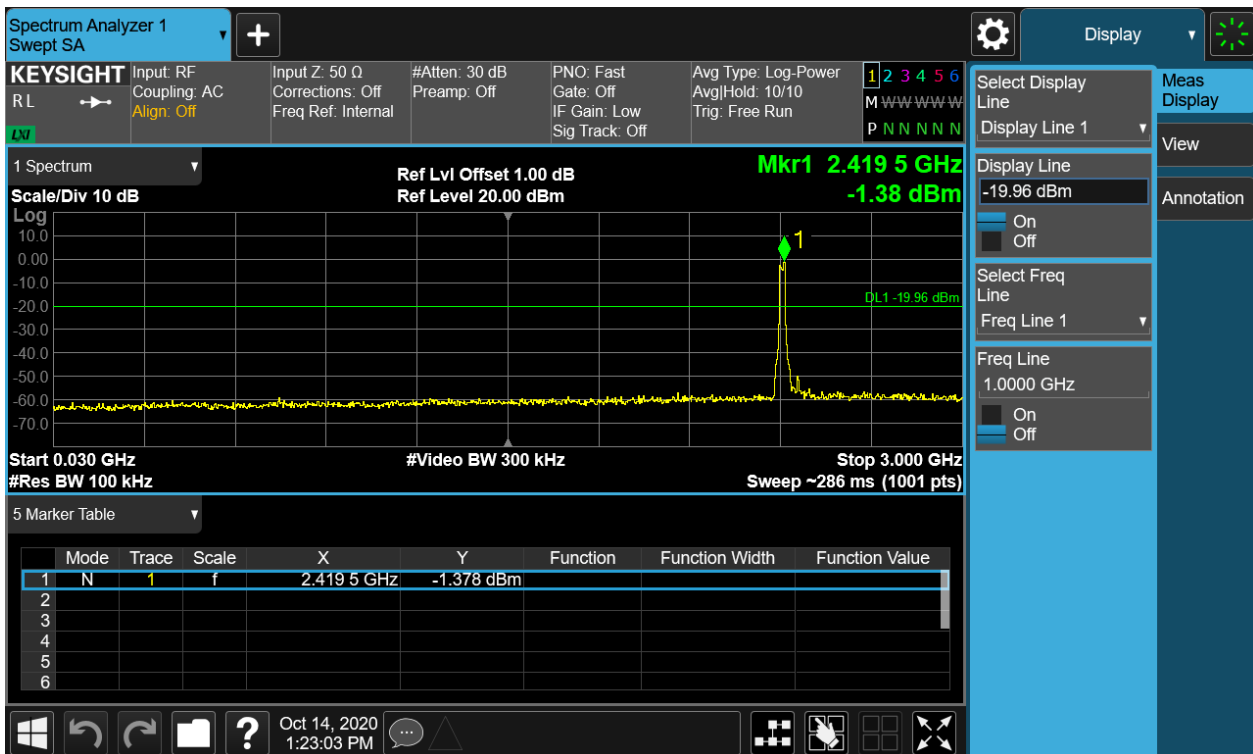
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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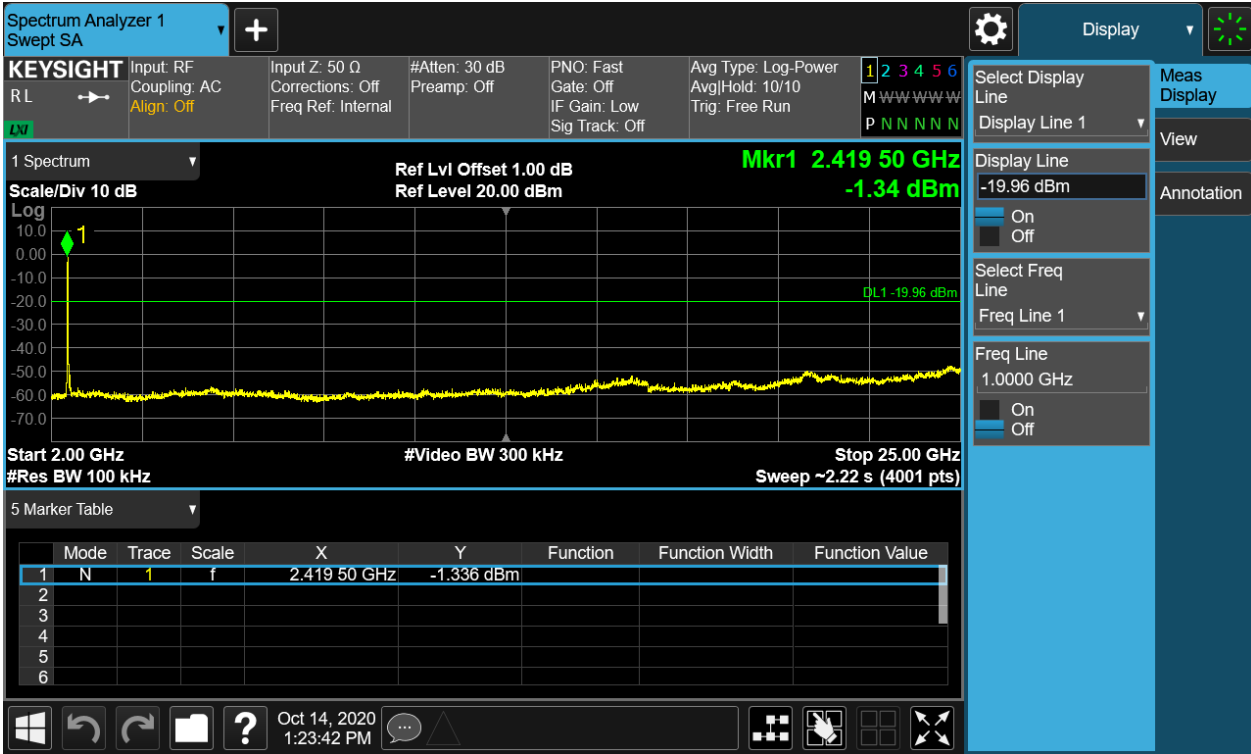
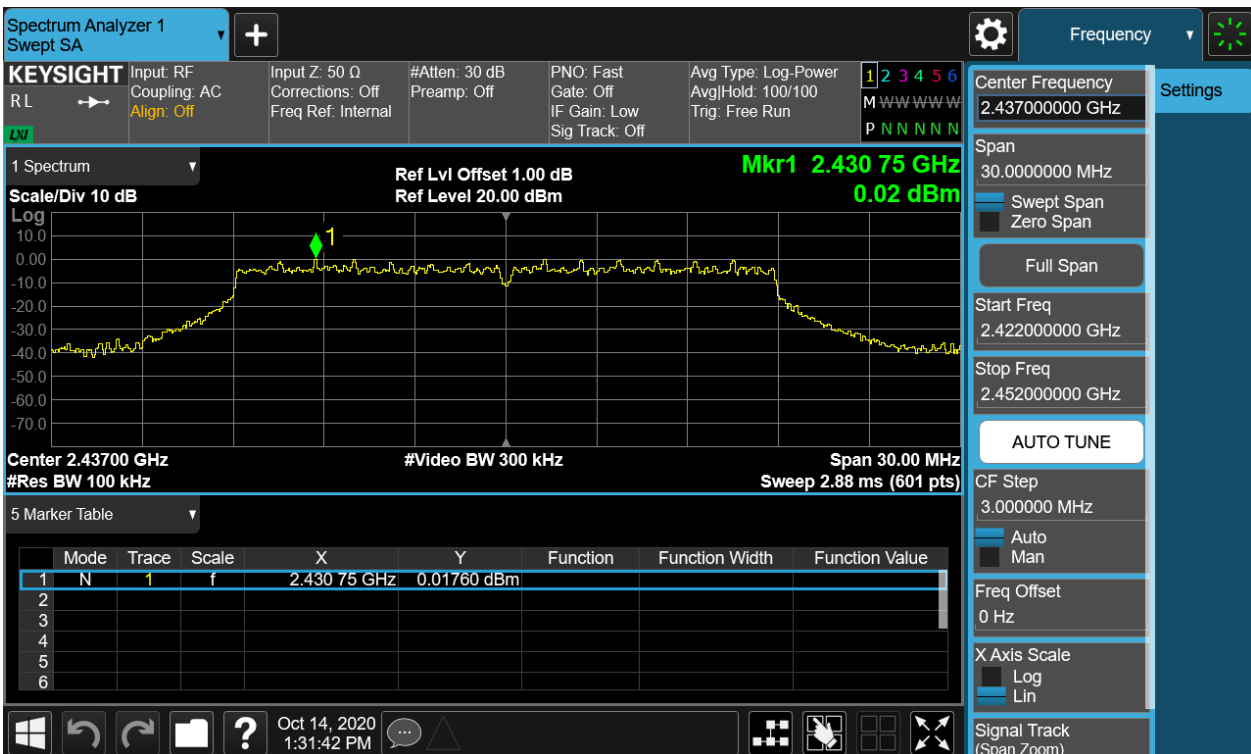


Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



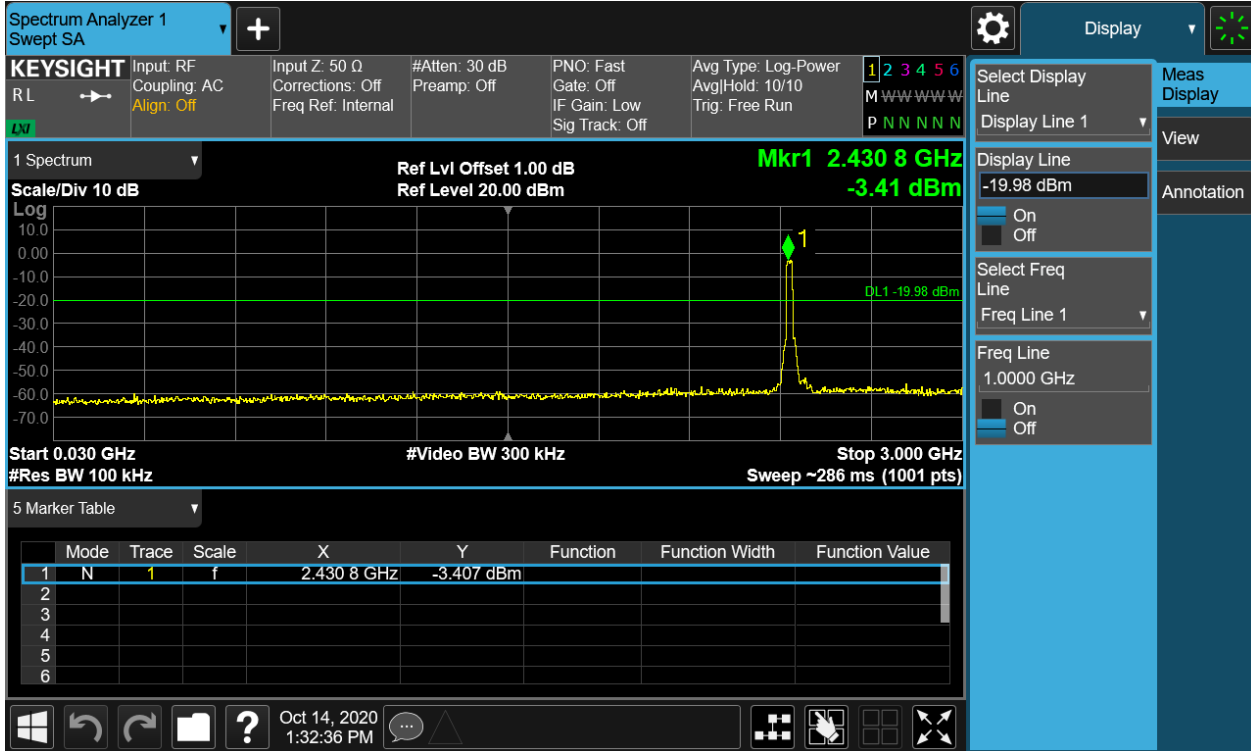
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Conducted spurious emissions 30MHz-25GHz



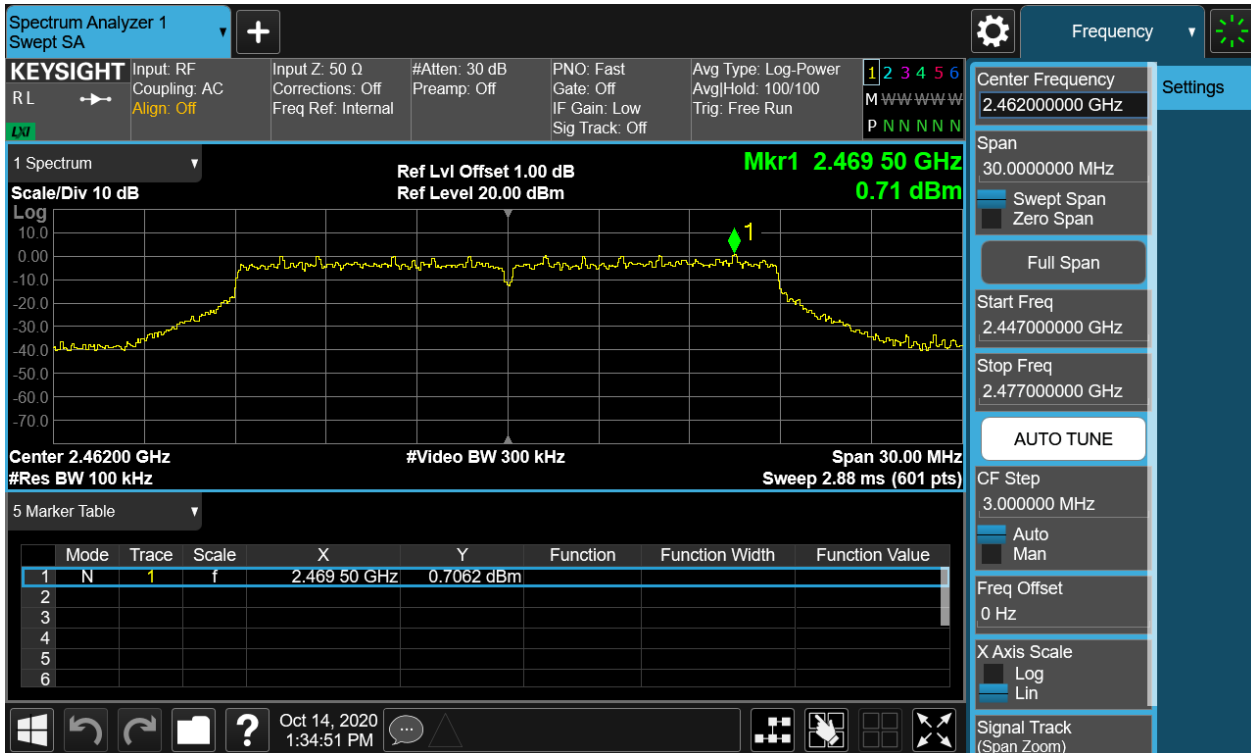
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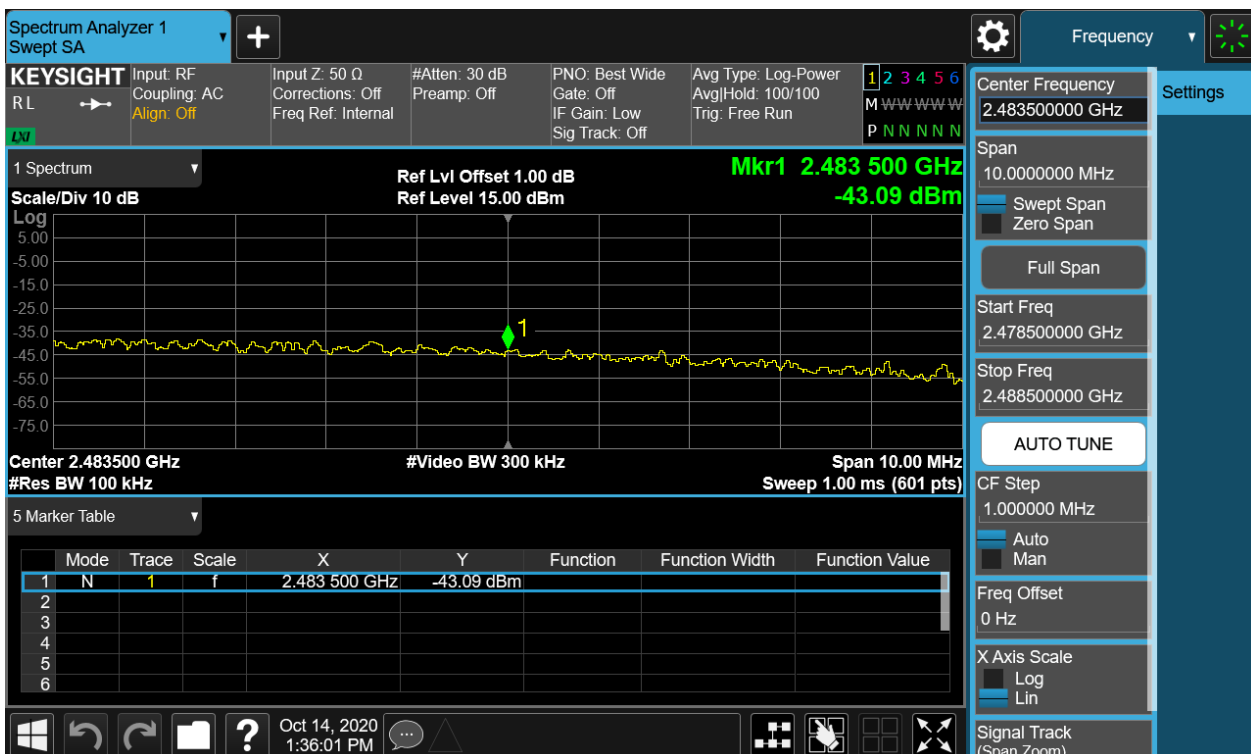
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Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



Band Edge



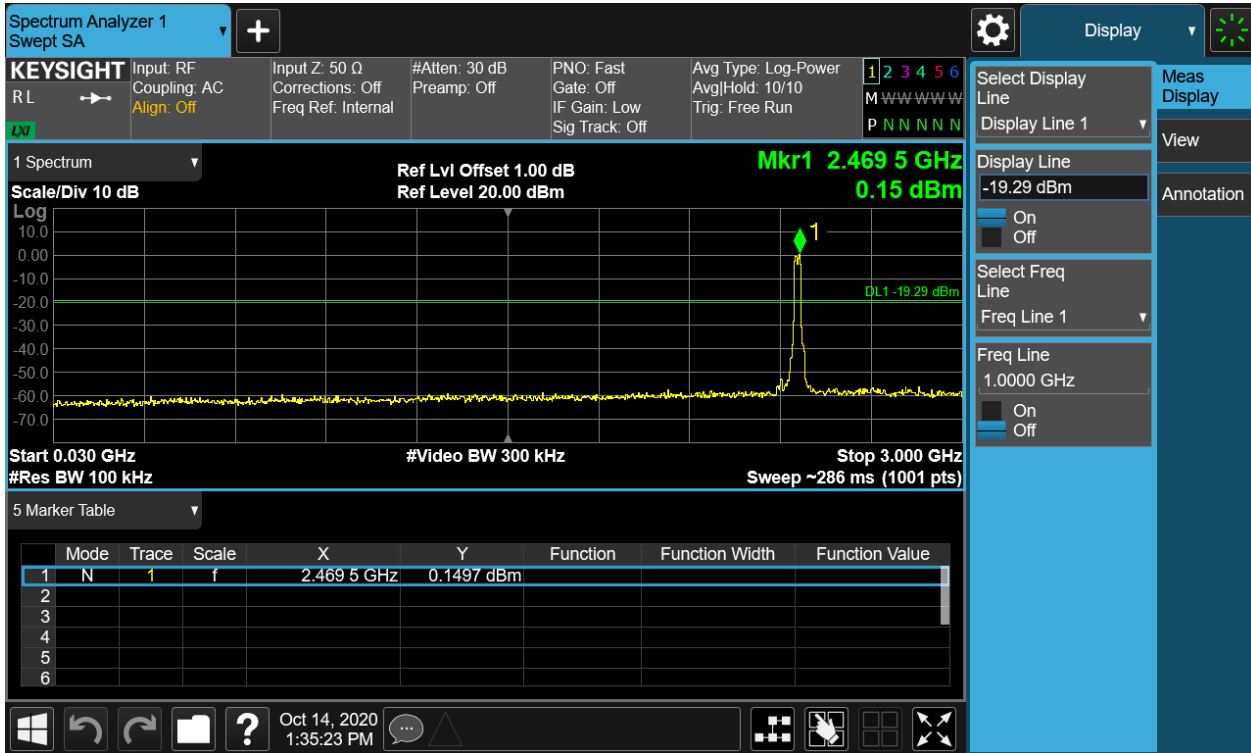
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Conducted spurious emissions 30MHz-25GHz



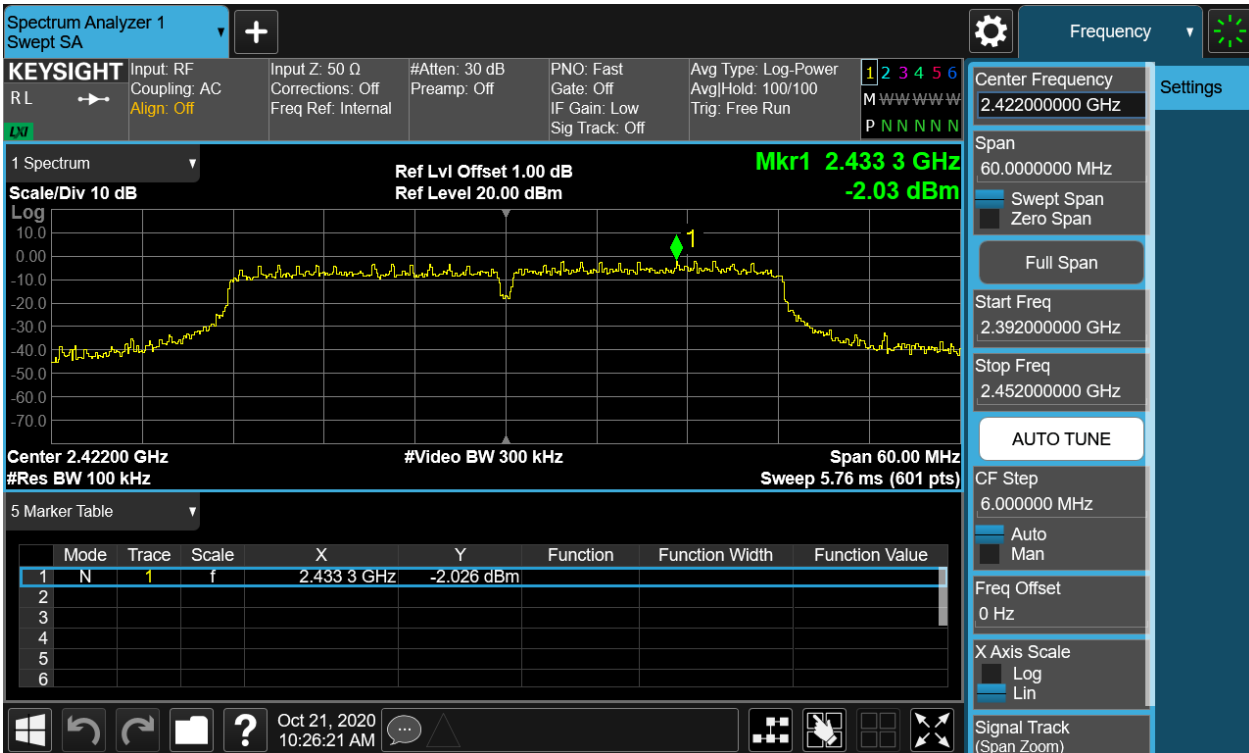
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Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



Band Edge



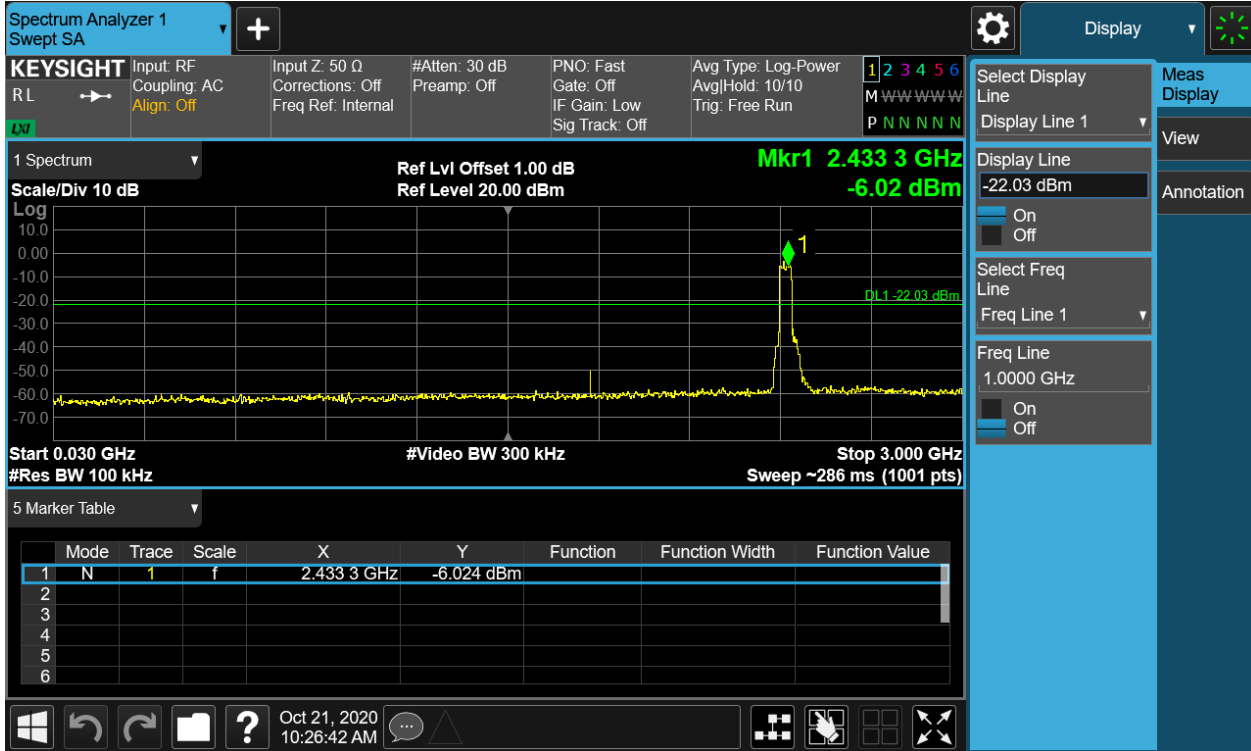
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Conducted spurious emissions 30MHz-25GHz



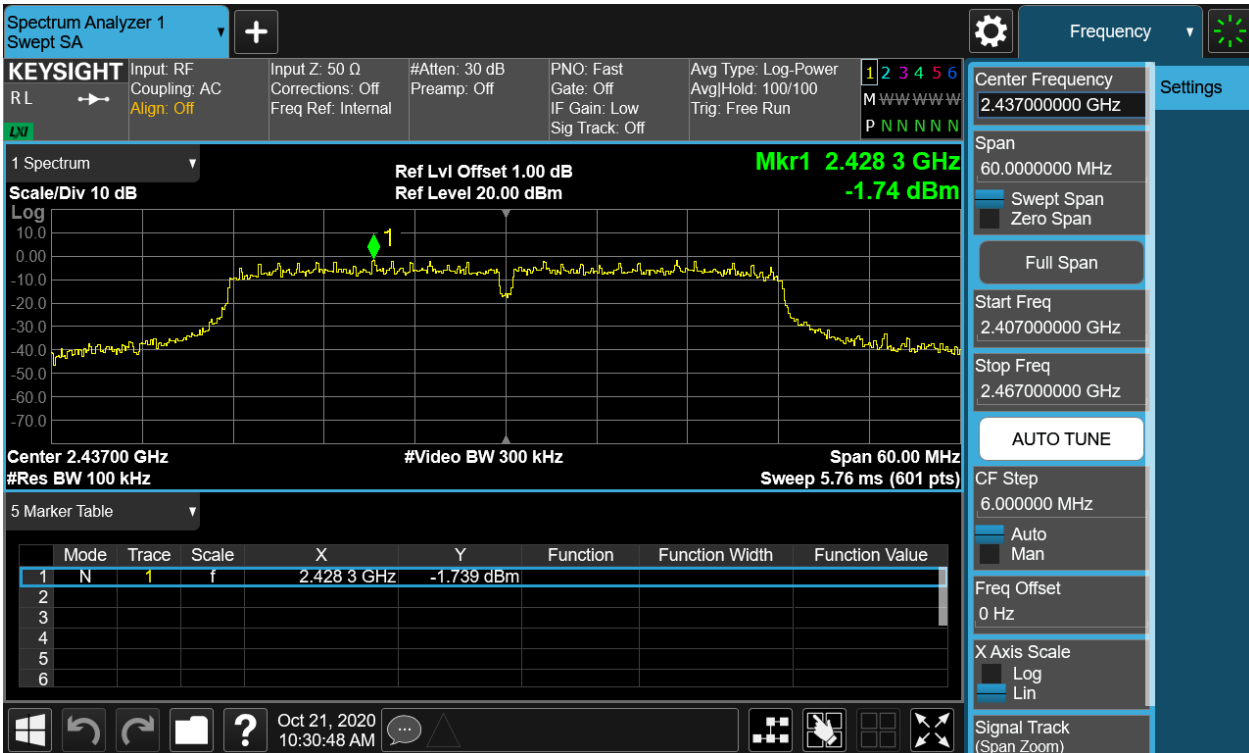
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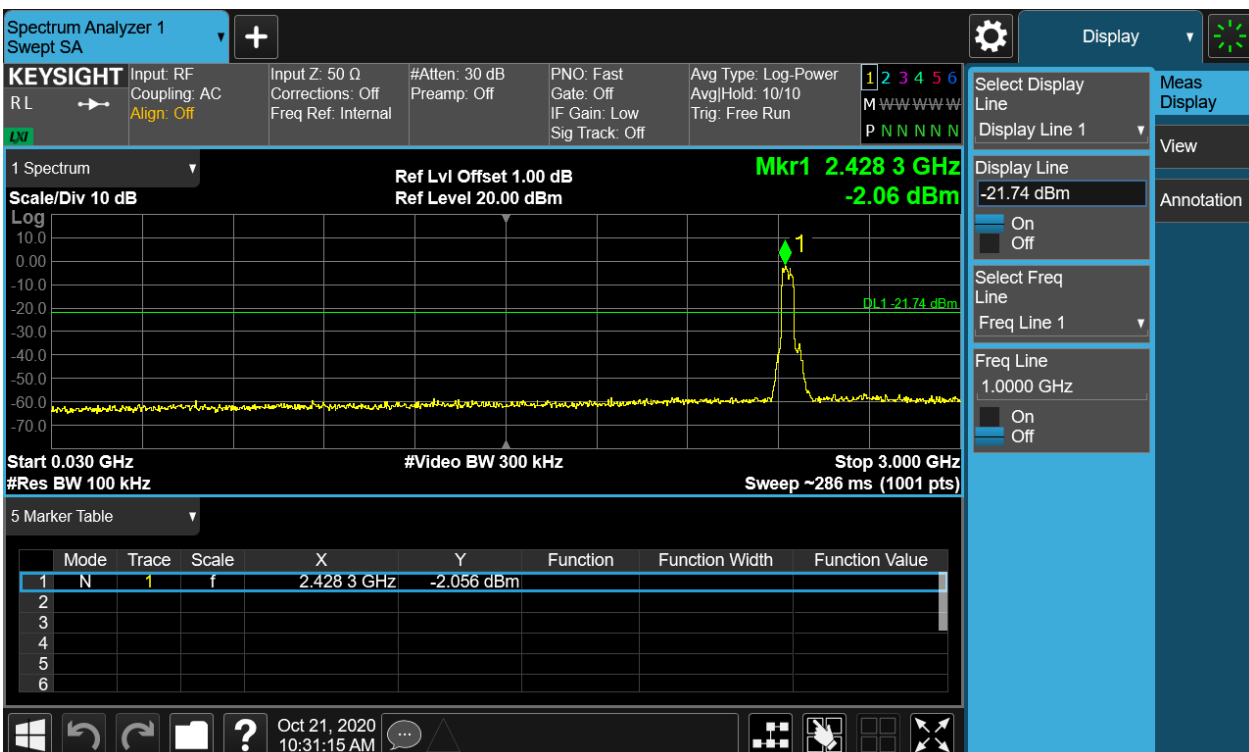
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Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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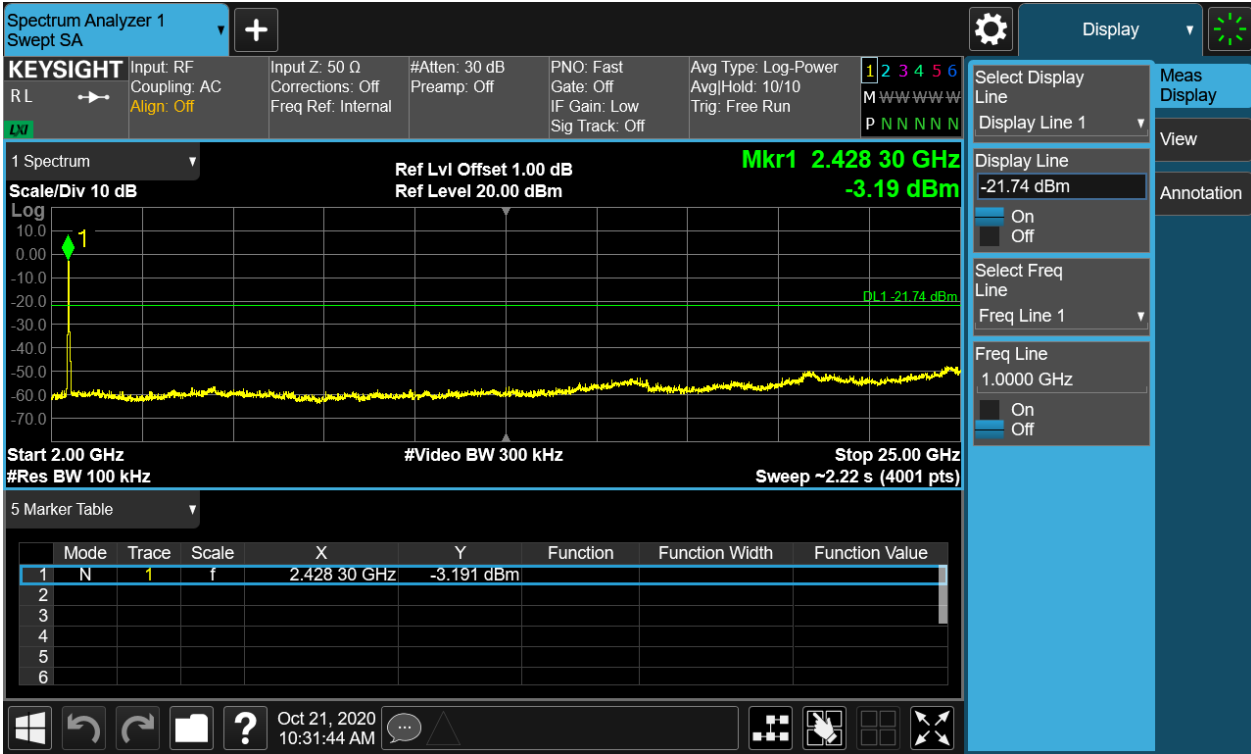
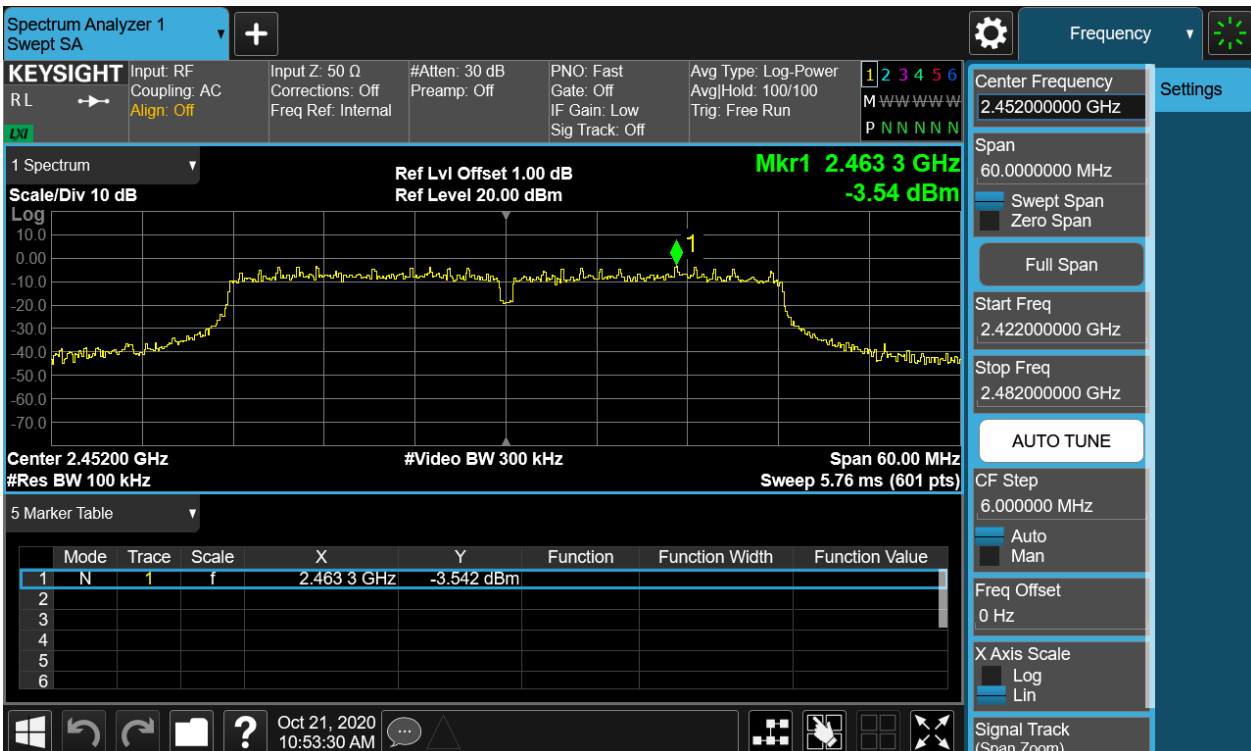


Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



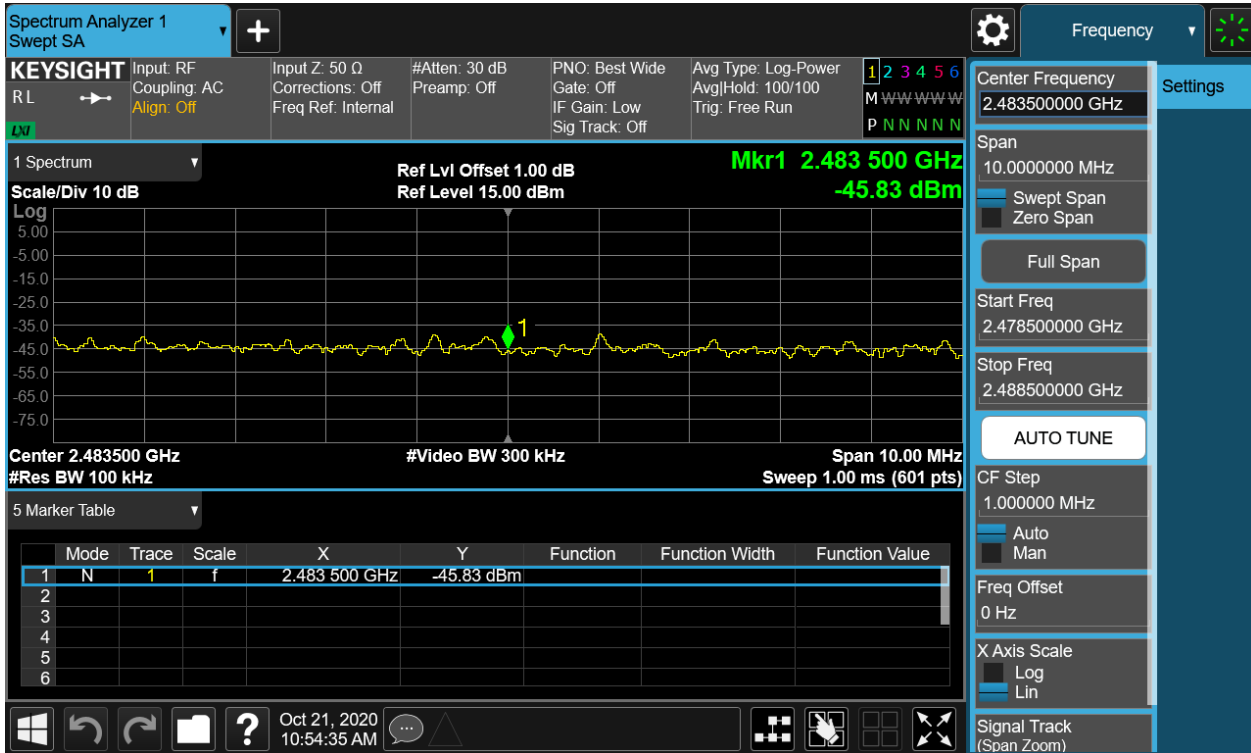
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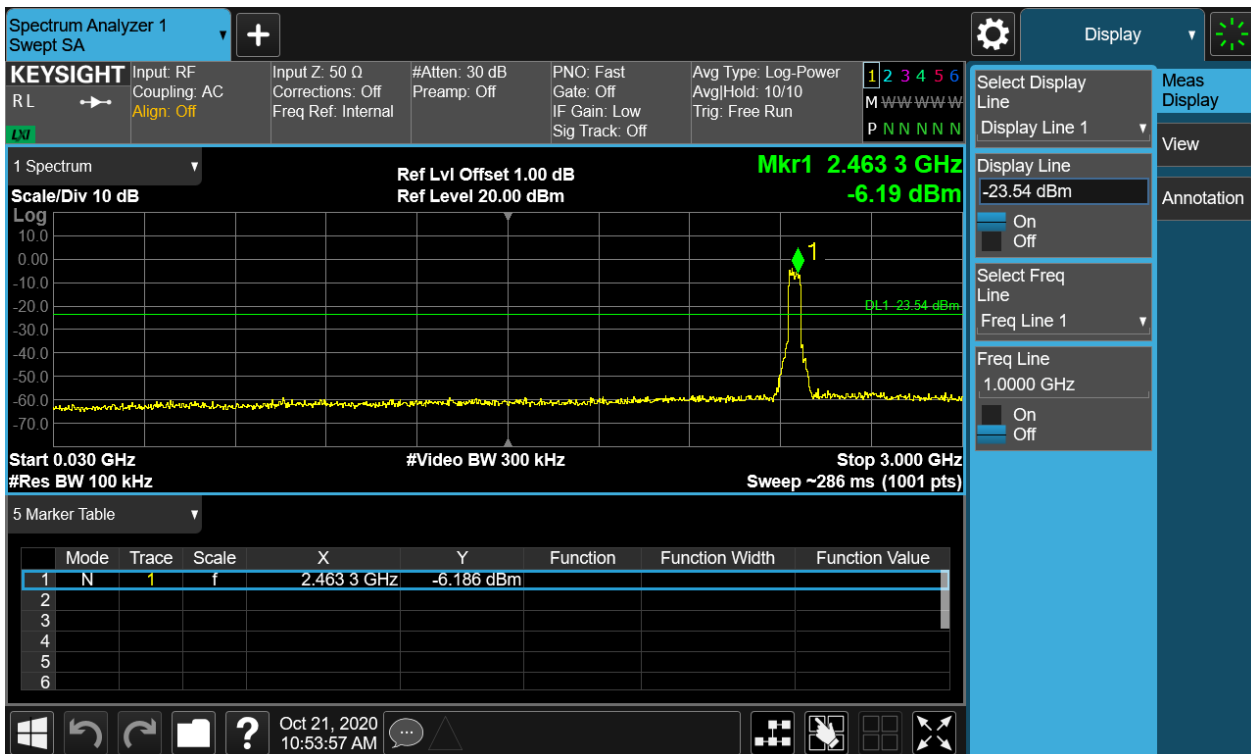
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Band Edge



Conducted spurious emissions 30MHz-25GHz

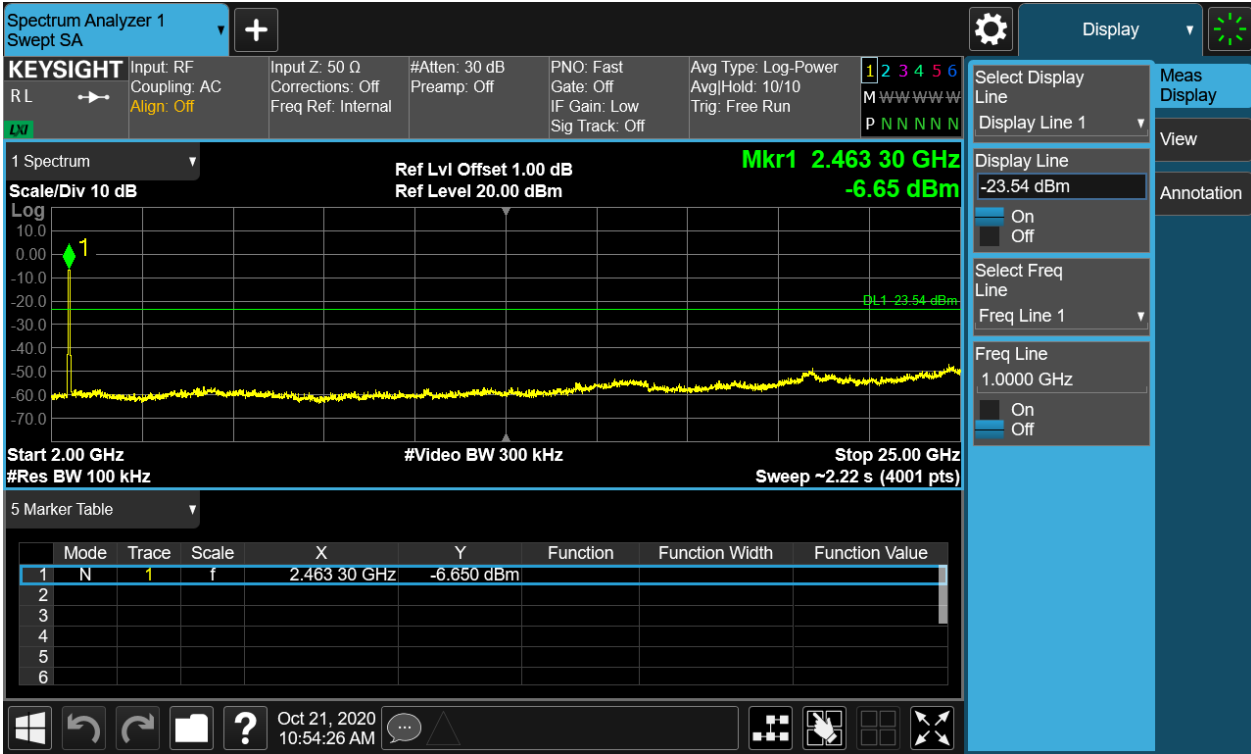


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4.1.6 Spurious Emission

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 : 25°C
Relative humidity : 52%

Notes

Test plots please refer to the annex document "WIFI 2.4GHz-TX EXHIBIT A of SHE20060042-02GE".

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.

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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 : 25°C
Relative humidity : 52%

Notes:

Test plots please refer to the annex document "WIFI 2.4GHz-TX EXHIBIT A of SHE20060042-02GE".

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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 : 25°C
Relative humidity : 52%

For details refer to following test plot.

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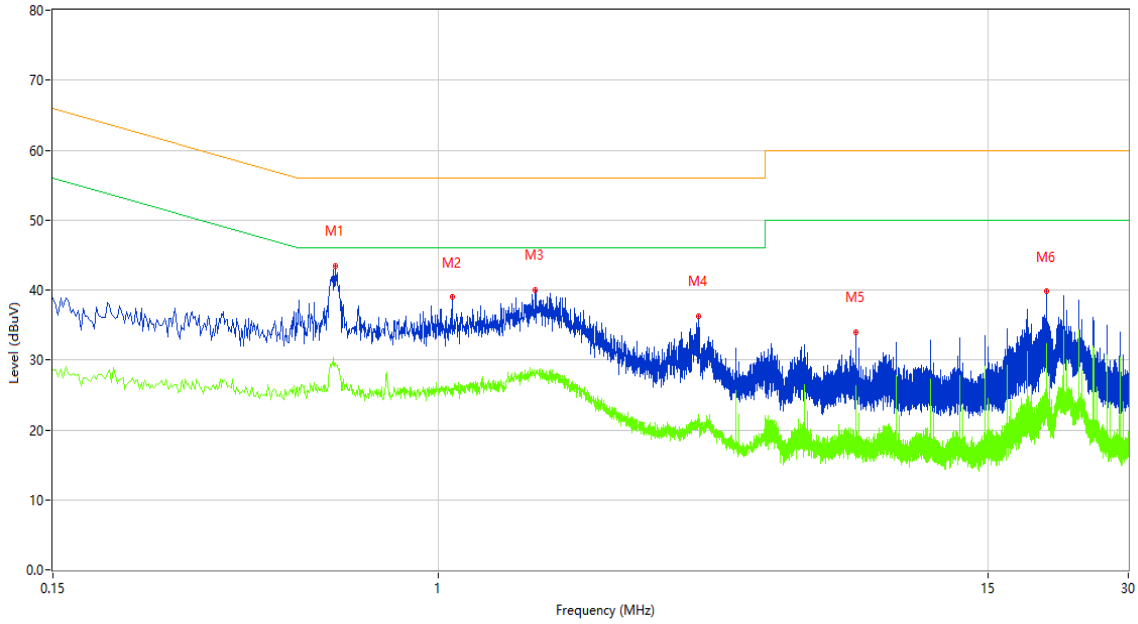
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Note:

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

Figure 37: Conducted Emission on AC Mains, L Phase

C:Emission Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.602	43.02	9.74	56.00	-12.98	Peak	L	Pass
1*	0.602	39.15	9.74	56.00	-16.85	QP	L	Pass
1**	0.602	29.54	9.74	46.00	-16.46	AV	L	Pass
2	1.072	33.44	9.67	56.00	-22.56	Peak	L	Pass
2*	1.072	26.90	9.67	56.00	-29.10	QP	L	Pass
2**	1.072	24.80	9.67	46.00	-21.20	AV	L	Pass
3	1.612	35.11	9.67	56.00	-20.89	Peak	L	Pass
3*	1.612	27.70	9.67	56.00	-28.30	QP	L	Pass
3**	1.612	28.15	9.67	46.00	-17.85	AV	L	Pass
4	3.612	33.48	9.68	56.00	-22.52	Peak	L	Pass
4*	3.612	25.61	9.68	56.00	-30.39	QP	L	Pass
4**	3.612	21.33	9.68	46.00	-24.67	AV	L	Pass
5	7.838	29.46	9.67	60.00	-30.54	Peak	L	Pass
5*	7.838	22.29	9.67	60.00	-37.71	QP	L	Pass
5**	7.838	26.23	9.67	50.00	-23.77	AV	L	Pass
6	20.038	36.36	9.41	60.00	-23.64	Peak	L	Pass
6*	20.038	29.29	9.41	60.00	-30.71	QP	L	Pass
6**	20.038	29.28	9.41	50.00	-20.72	AV	L	Pass

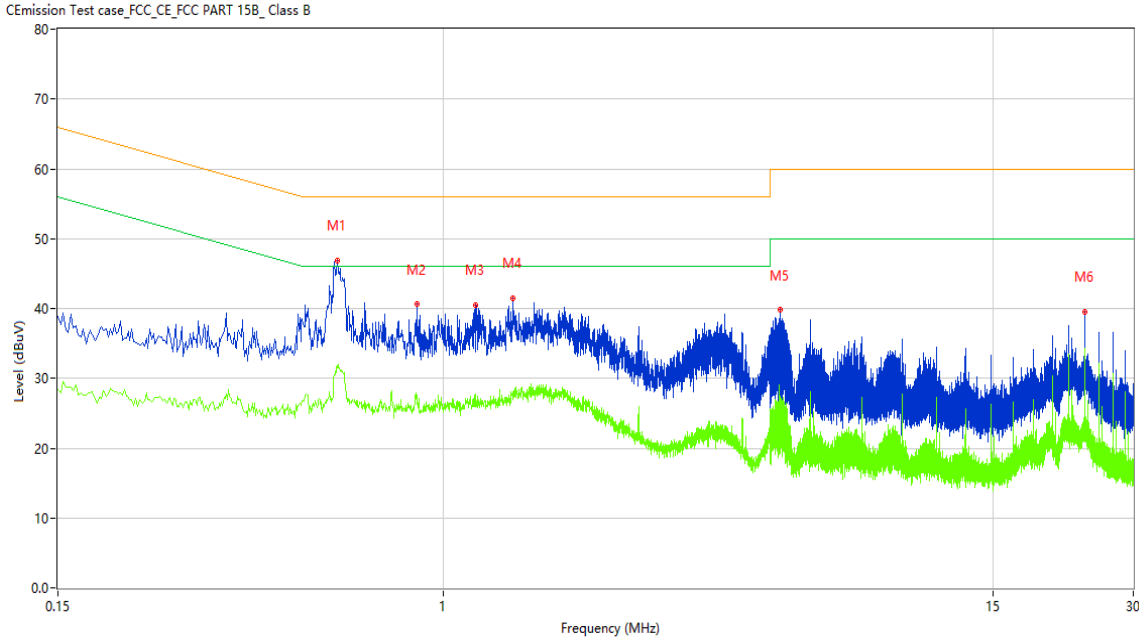
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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.594	46.36	9.76	56.00	-9.64	Peak	N	Pass
1*	0.594	42.80	9.76	56.00	-13.20	QP	N	Pass
1**	0.594	31.84	9.76	46.00	-14.16	AV	N	Pass
2	0.878	39.02	9.76	56.00	-16.98	Peak	N	Pass
2*	0.878	32.80	9.76	56.00	-23.20	QP	N	Pass
2**	0.878	27.62	9.76	46.00	-18.38	AV	N	Pass
3	1.174	39.87	9.66	56.00	-16.13	Peak	N	Pass
3*	1.174	33.80	9.66	56.00	-22.20	QP	N	Pass
3**	1.174	27.71	9.66	46.00	-18.29	AV	N	Pass
4	1.410	39.69	9.67	56.00	-16.31	Peak	N	Pass
4*	1.410	32.77	9.67	56.00	-23.23	QP	N	Pass
4**	1.410	28.10	9.67	46.00	-17.90	AV	N	Pass
5	5.274	40.37	9.70	60.00	-19.63	Peak	N	Pass
5*	5.274	33.13	9.70	60.00	-26.87	QP	N	Pass
5**	5.274	27.39	9.70	50.00	-22.61	AV	N	Pass
6	23.614	33.29	9.44	60.00	-26.71	Peak	N	Pass
6*	23.614	27.38	9.44	60.00	-32.62	QP	N	Pass
6**	23.614	34.31	9.44	50.00	-15.69	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Rear of the sample

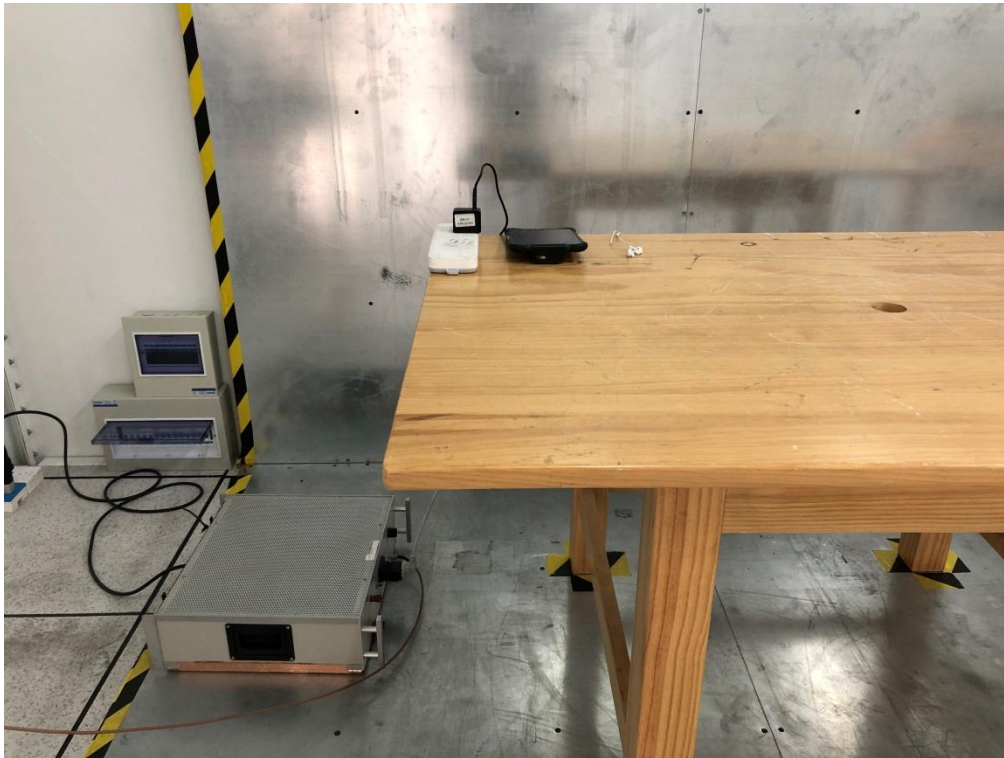
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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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5.4 Set-up for Spurious Emissions below 1GHz



Below 1 GHz

5.5 Set-up for Spurious Emissions above 1GHz



Above 1GHz

End of the report