

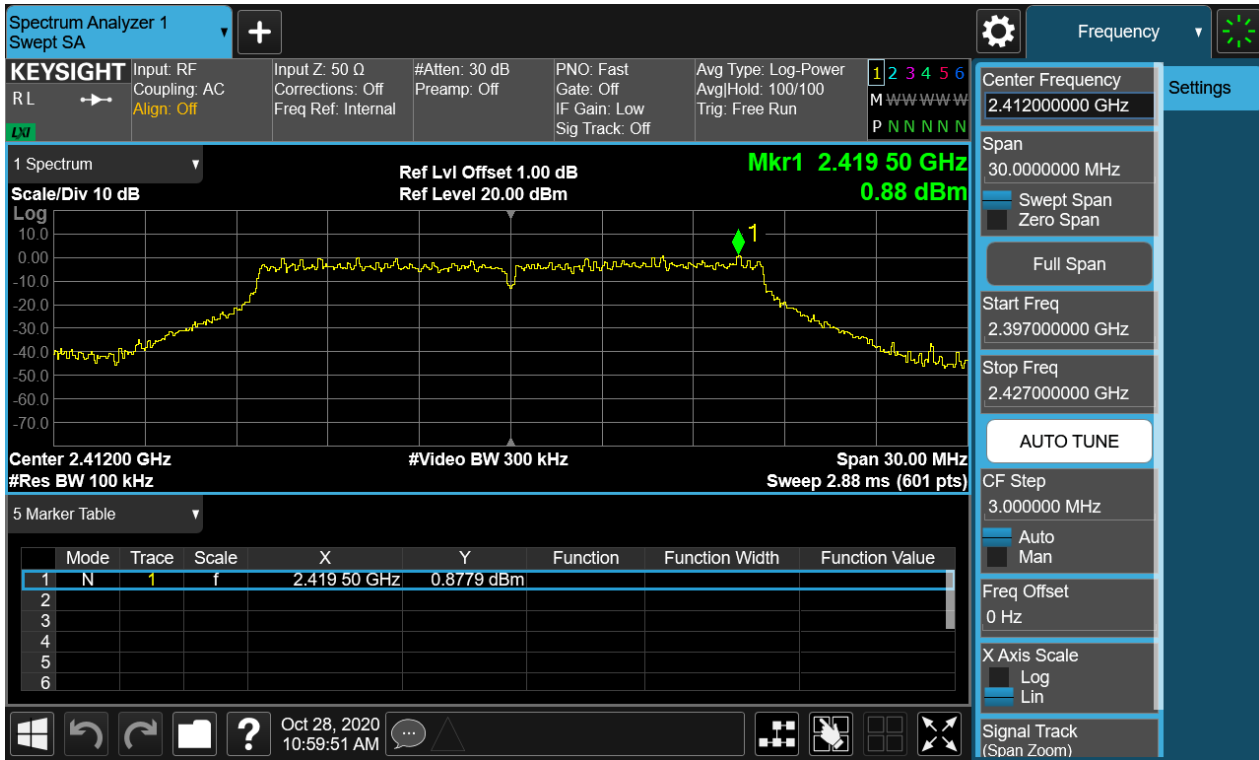
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Figure 28: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



Band Edge



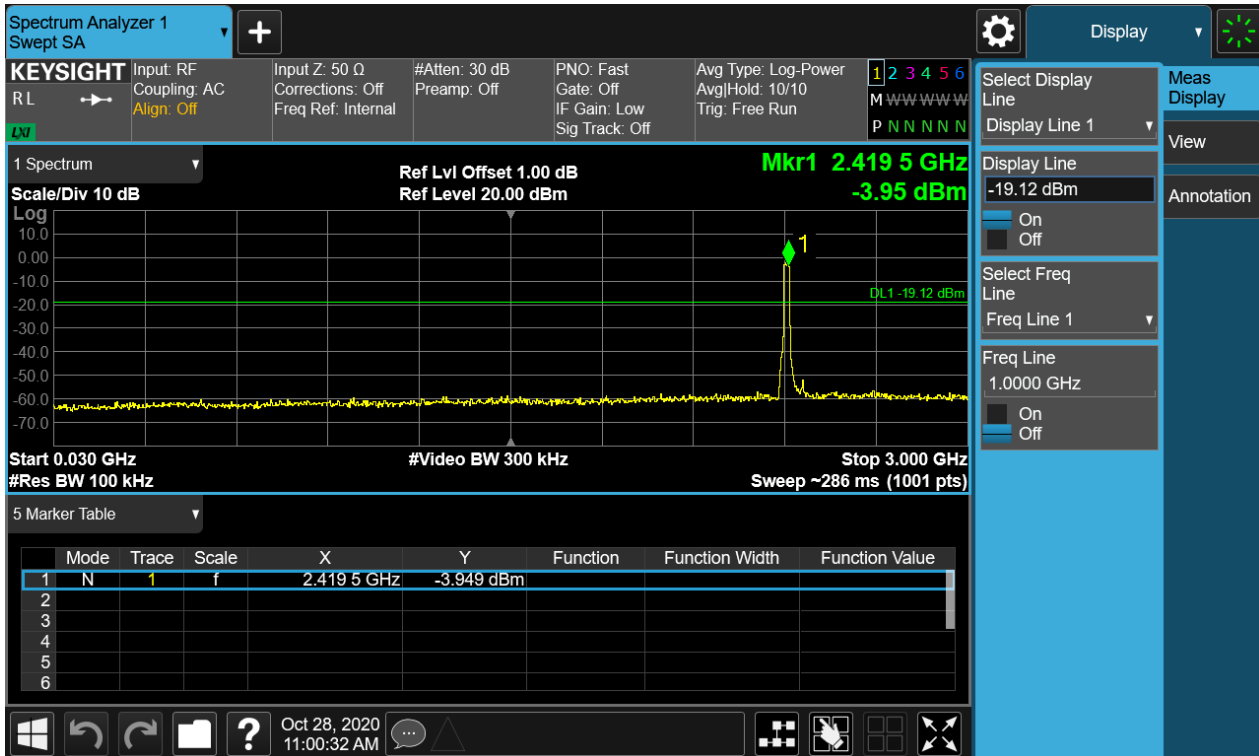
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Conducted spurious emissions 30MHz-25GHz



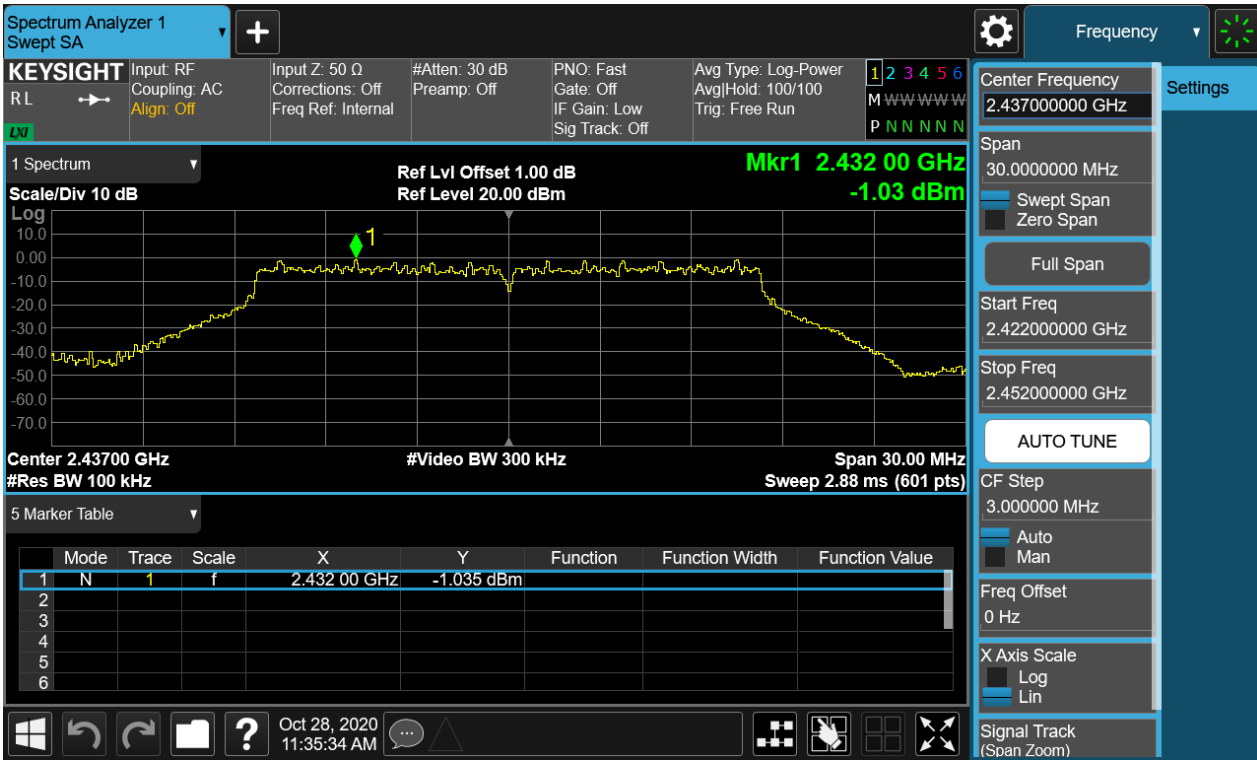
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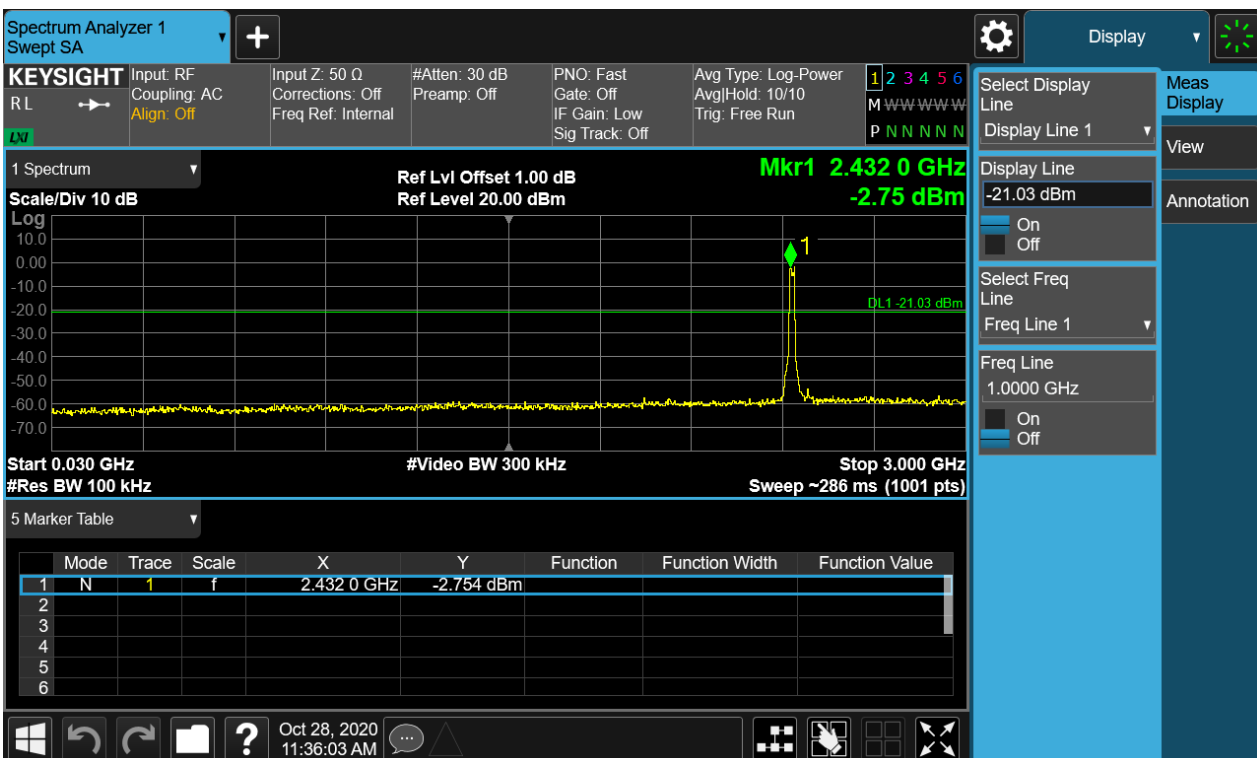
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Figure 29: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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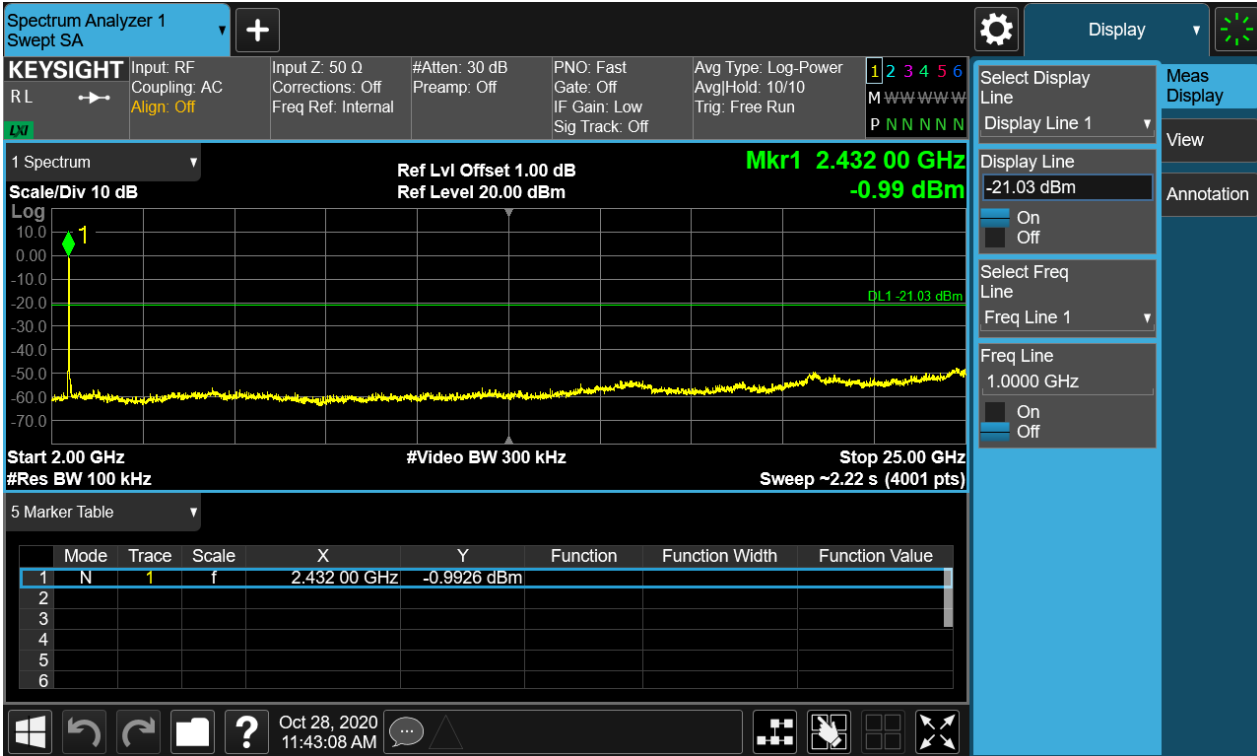


Figure 30: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



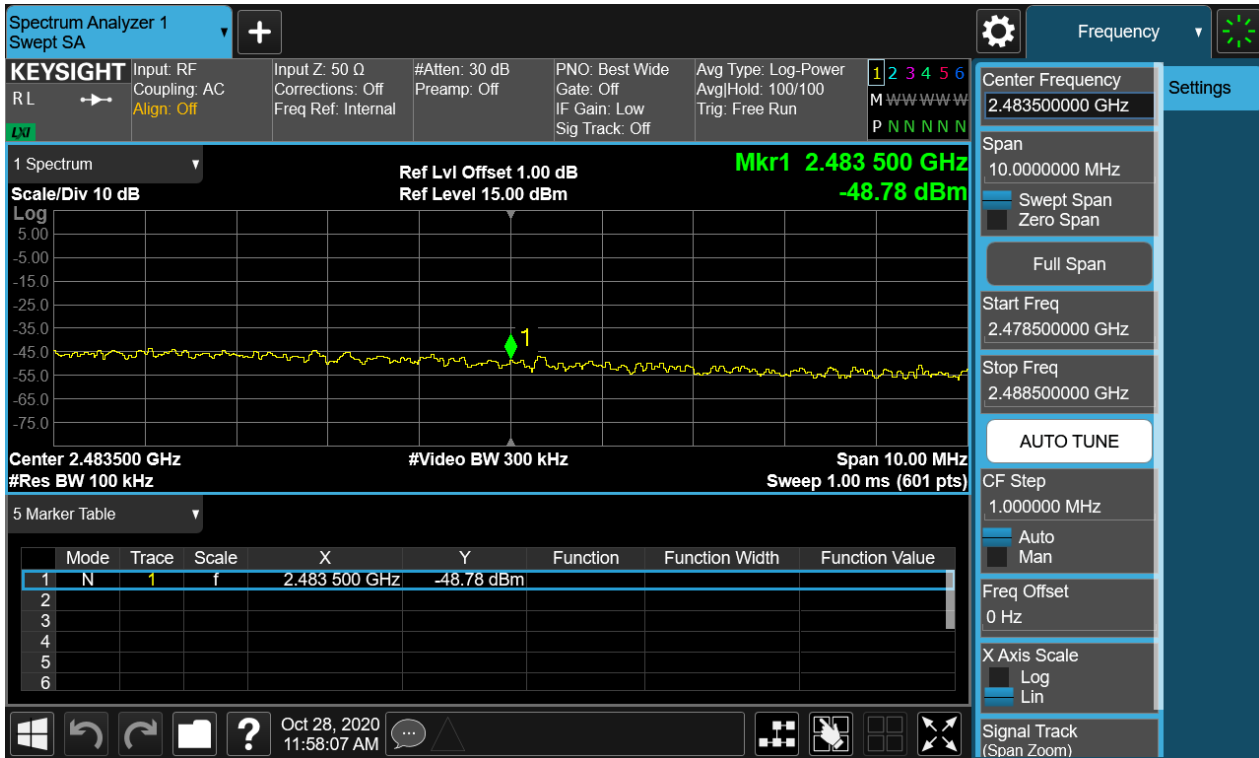
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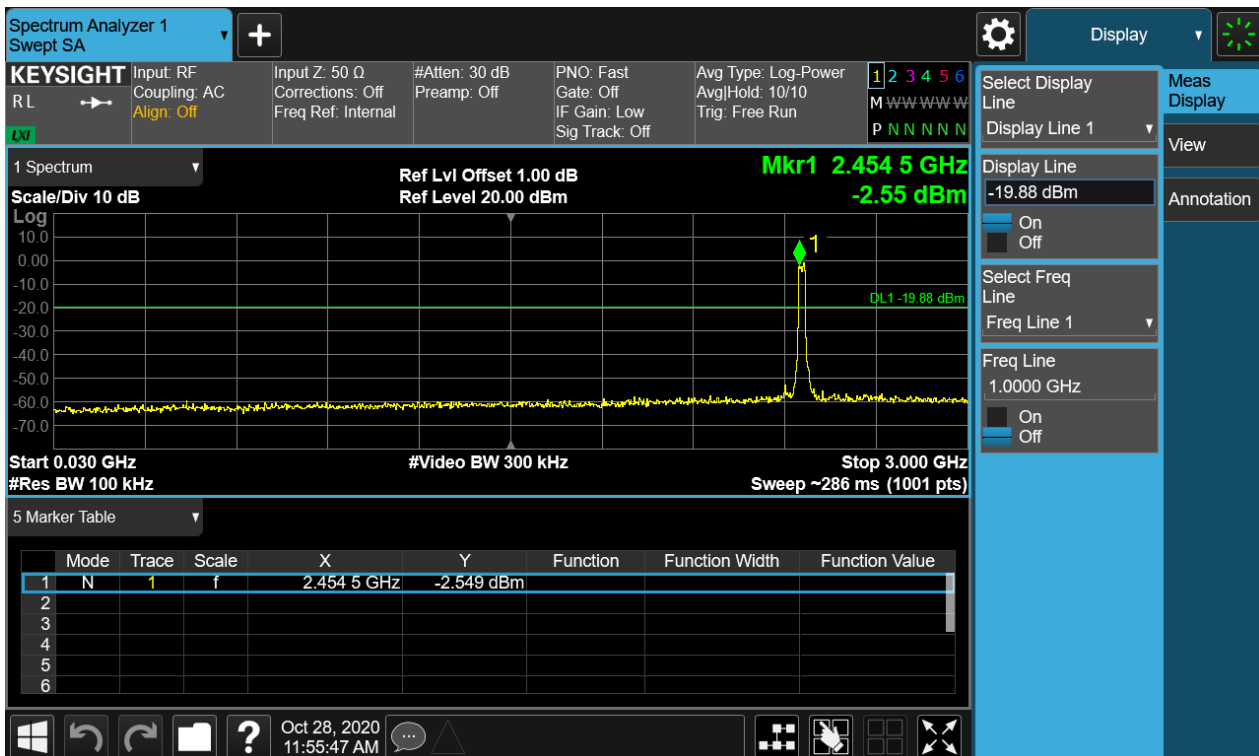
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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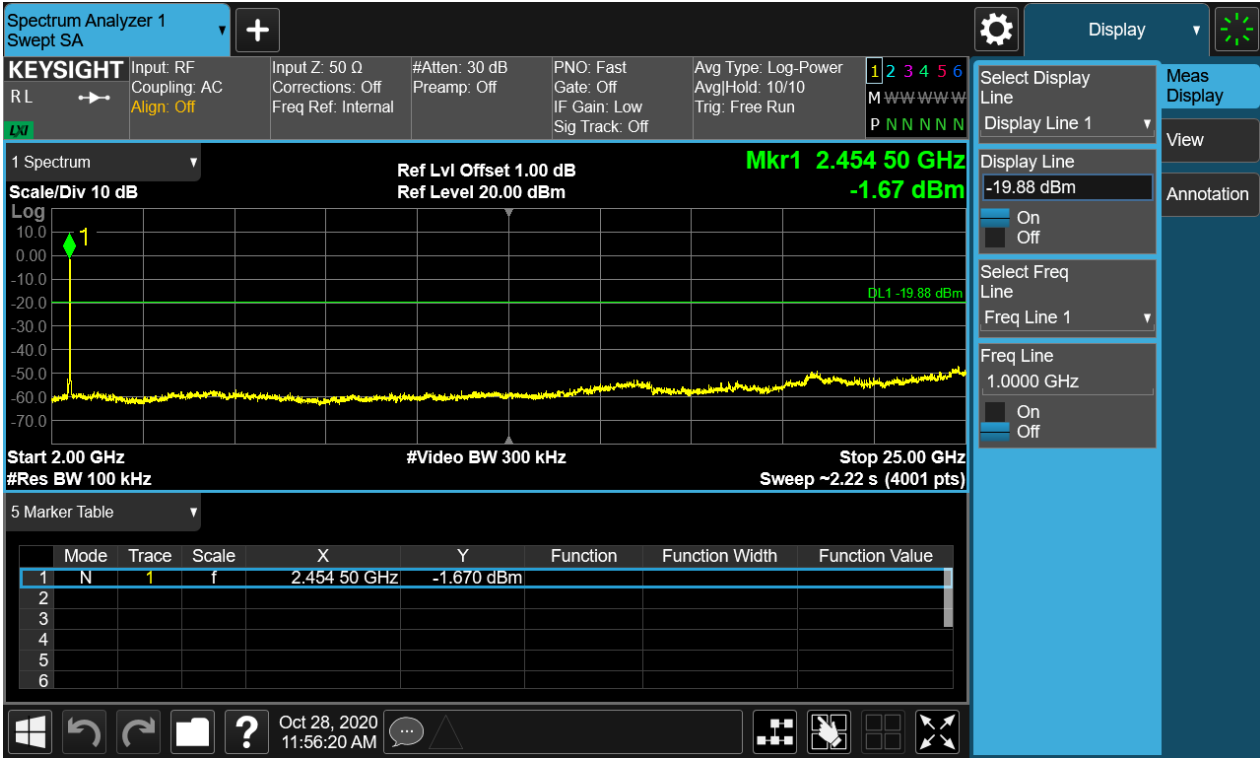
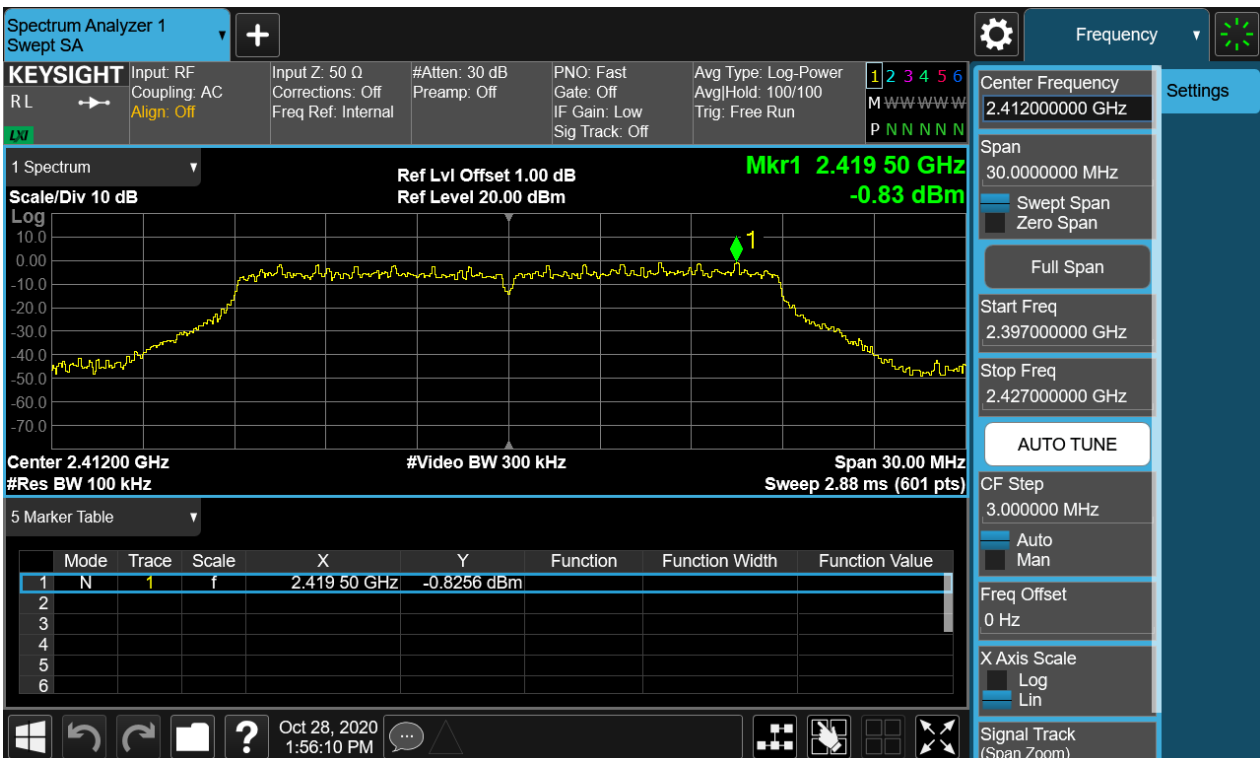


Figure 31: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



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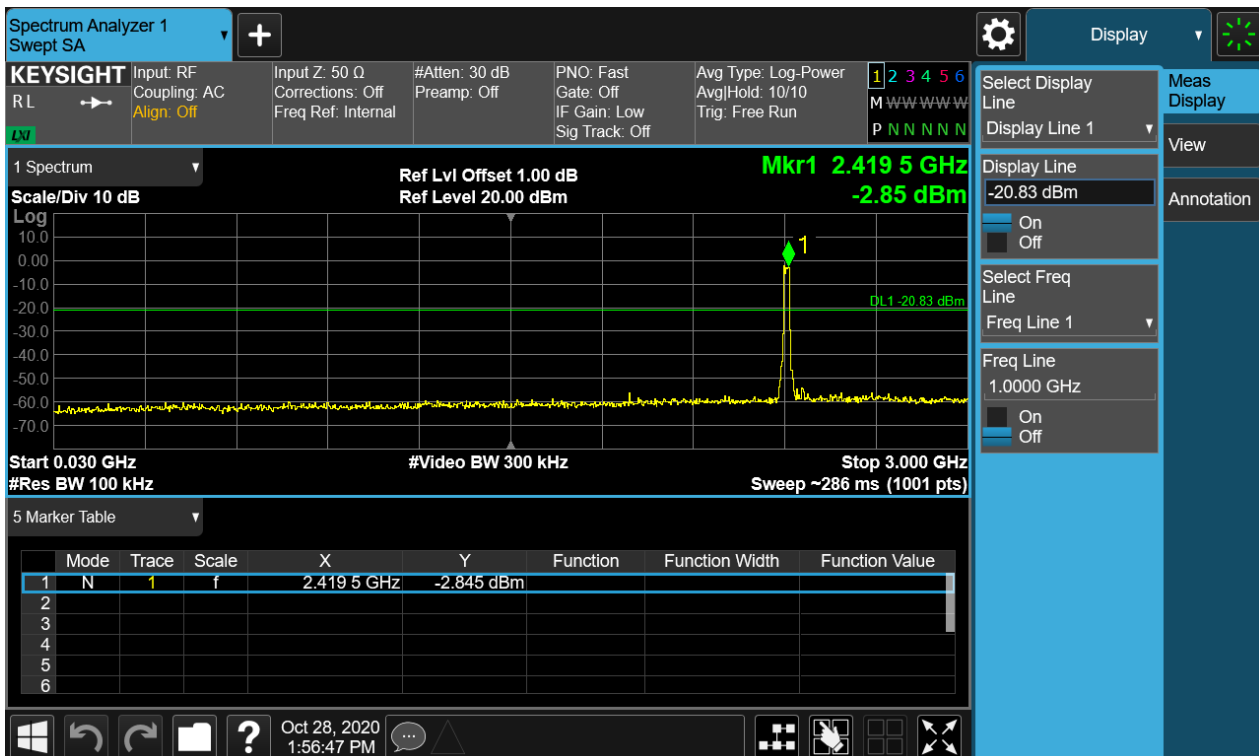
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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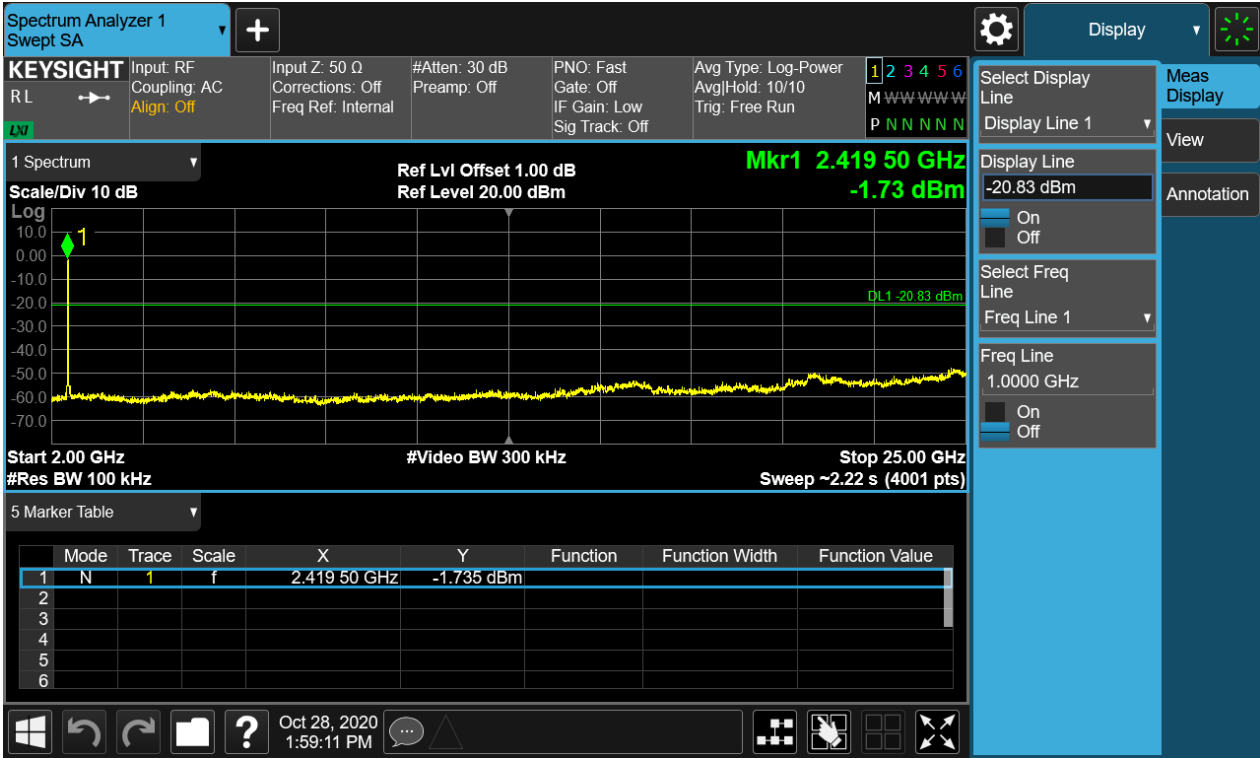
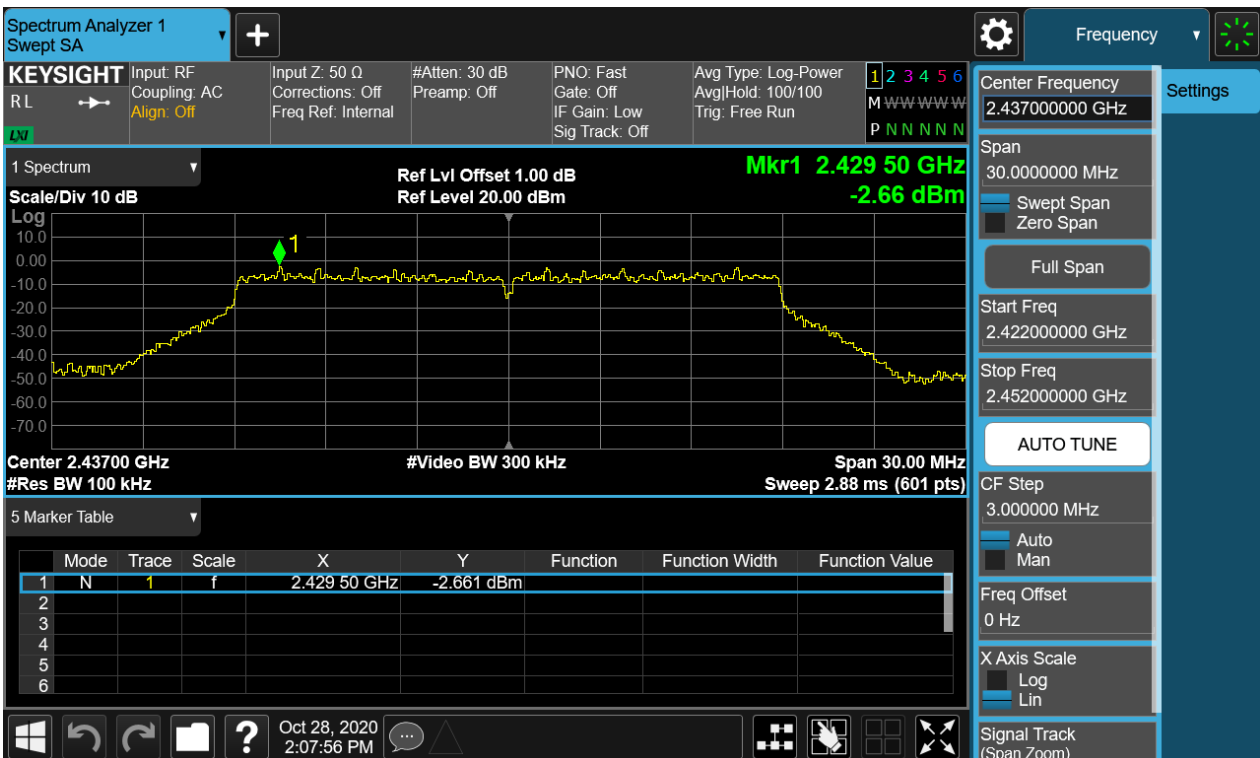


Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



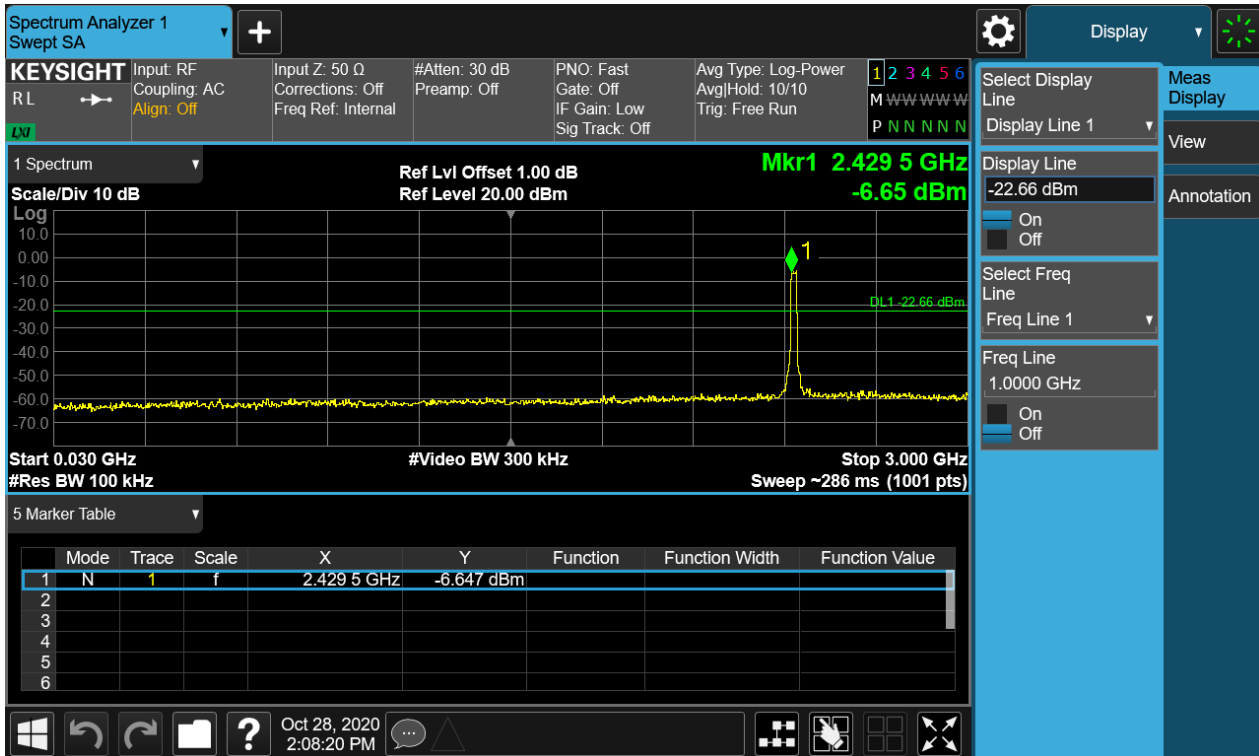
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Conducted spurious emissions 30MHz-25GHz



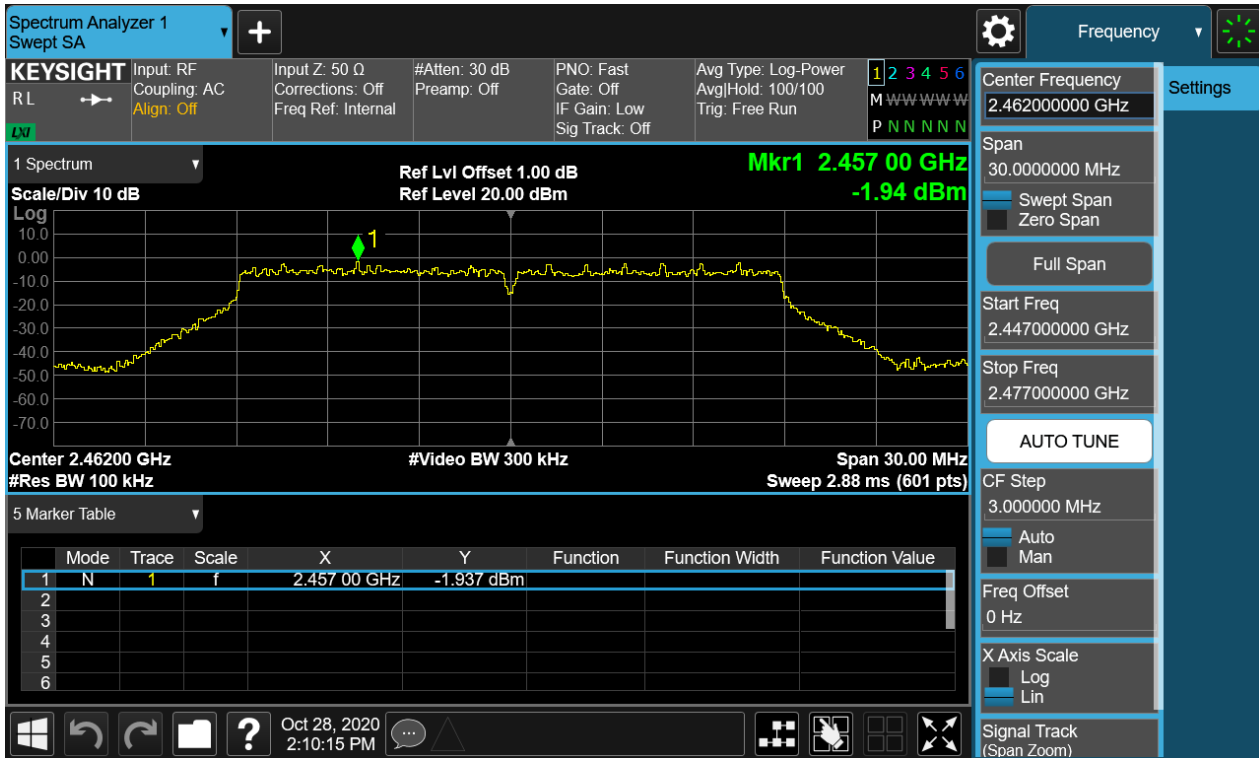
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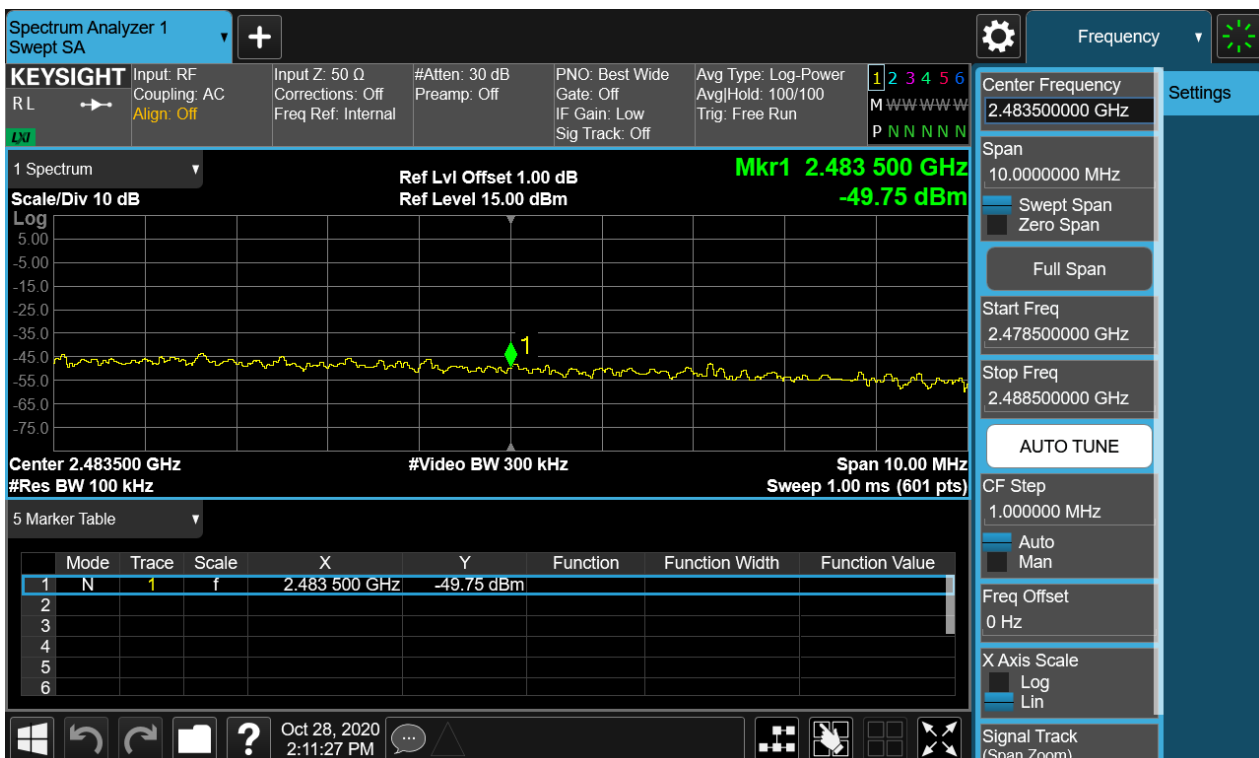
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Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



Band Edge



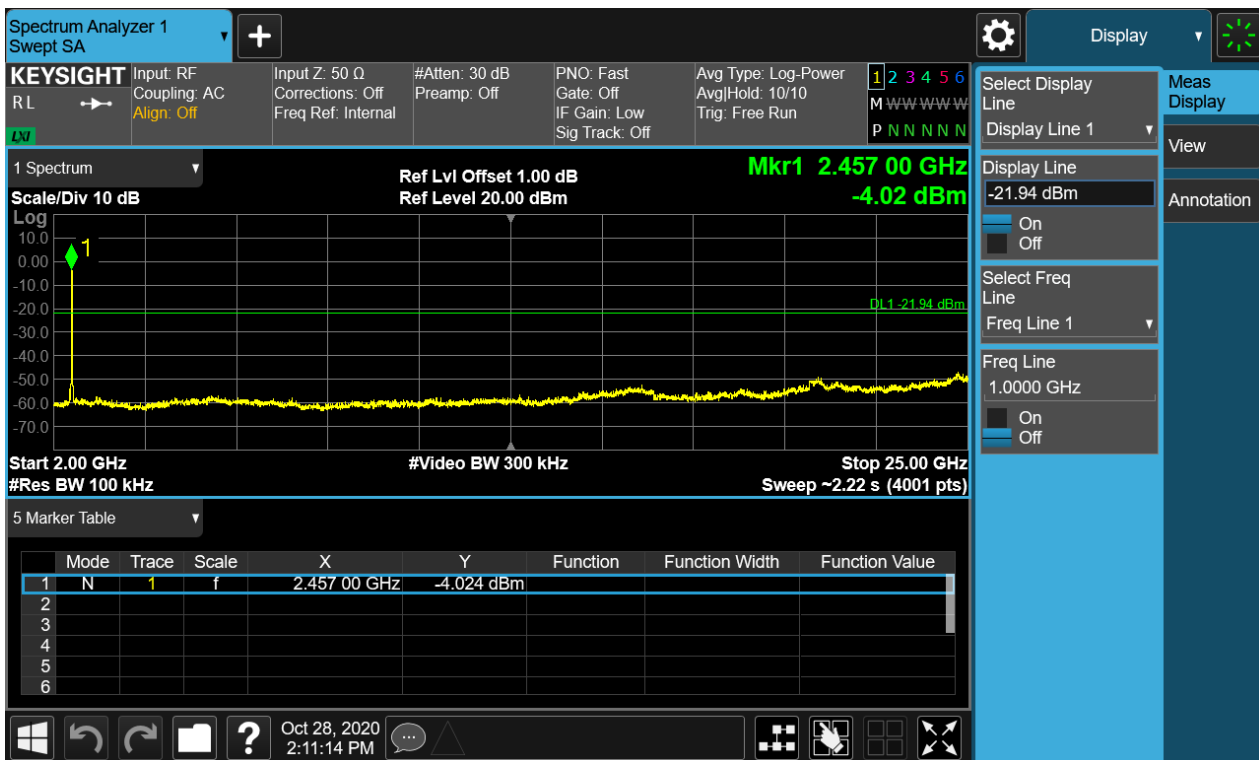
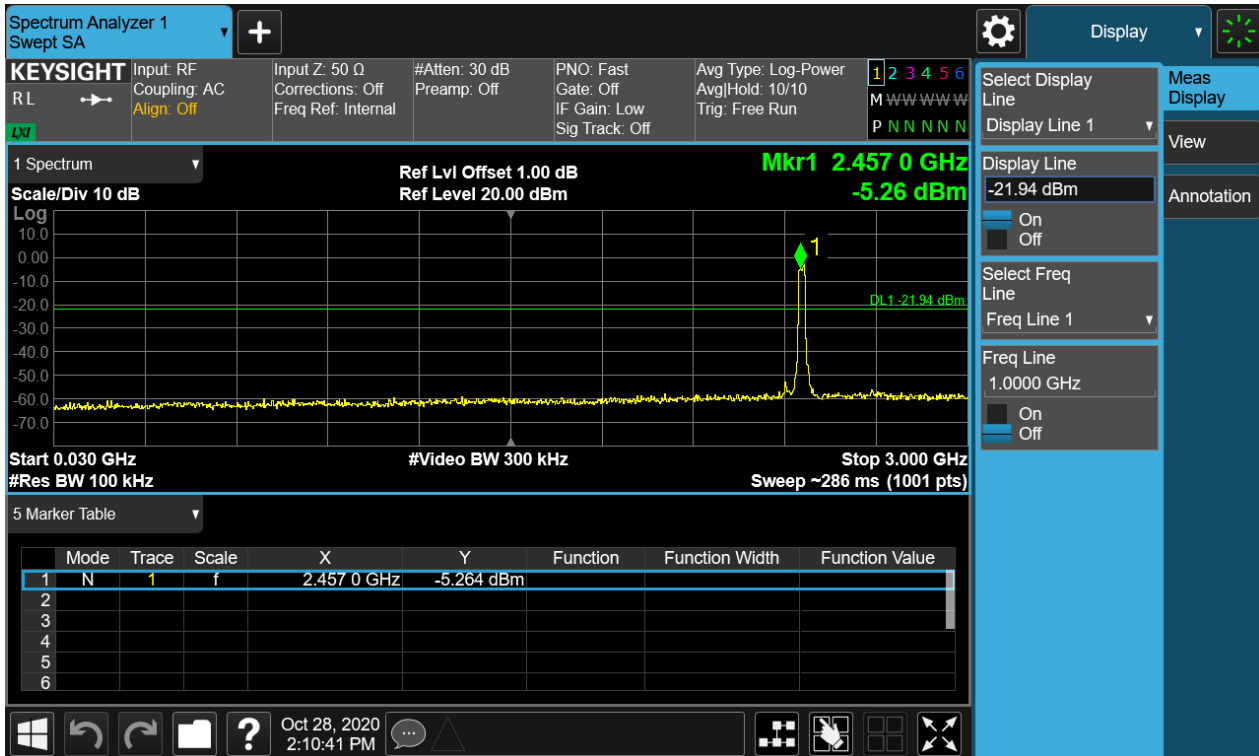
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Conducted spurious emissions 30MHz-25GHz



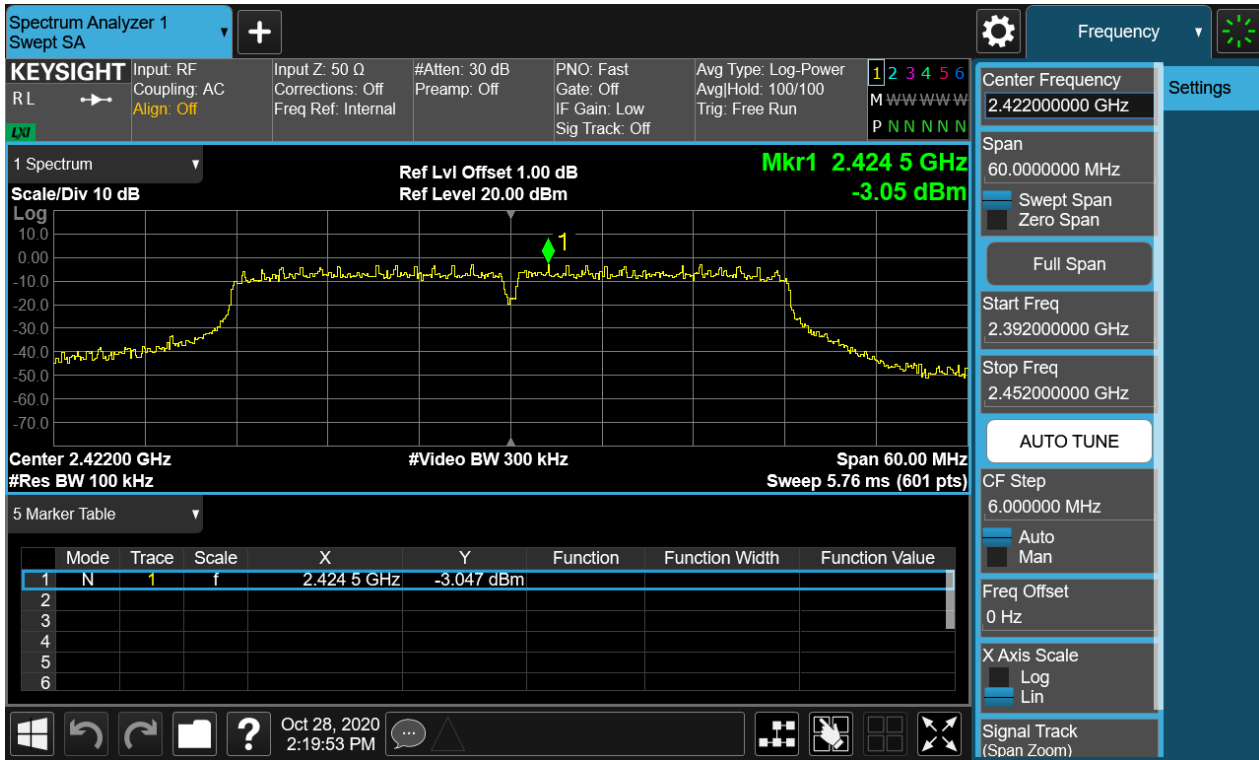
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Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



Band Edge



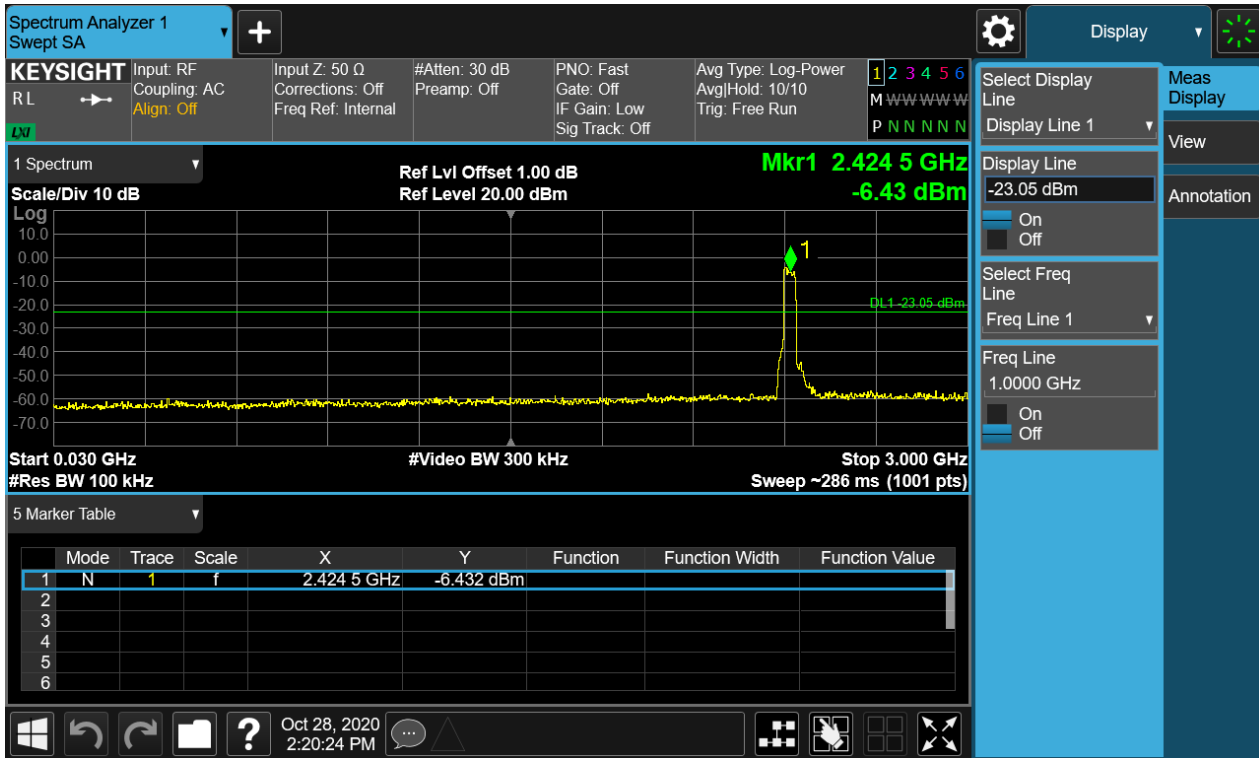
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Conducted spurious emissions 30MHz-25GHz



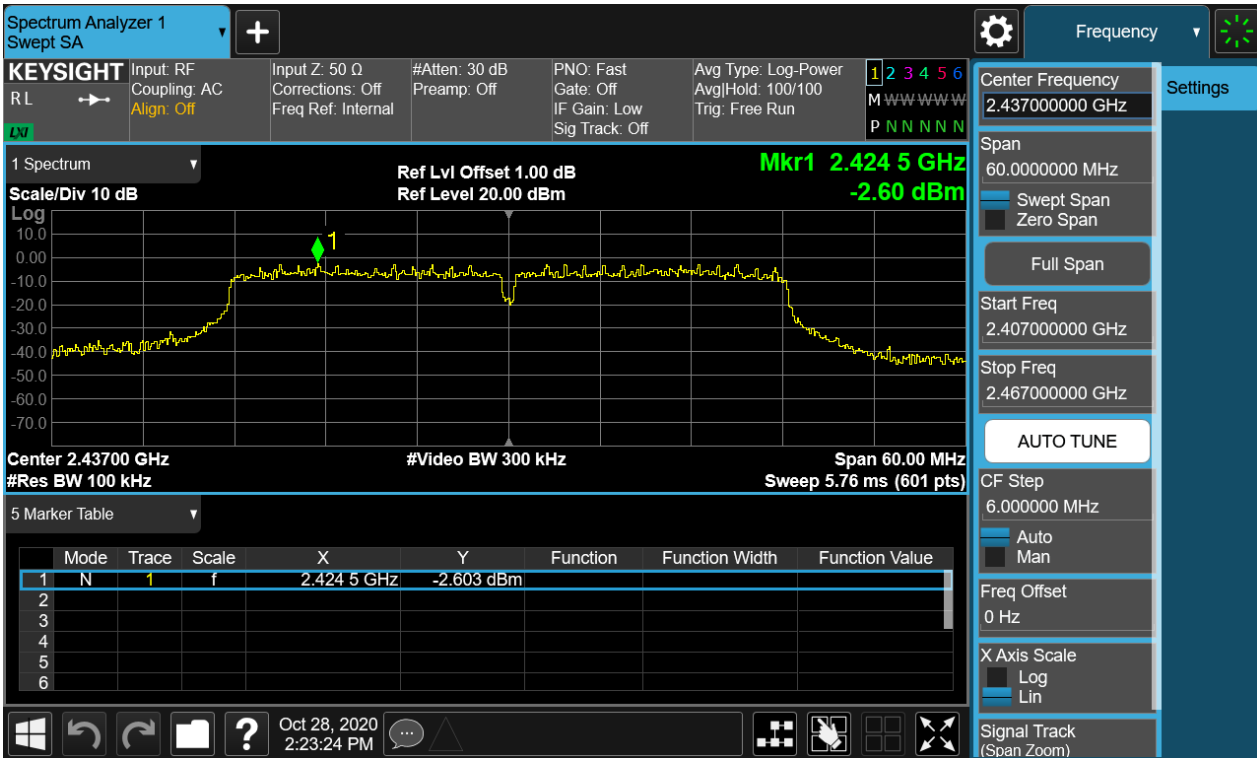
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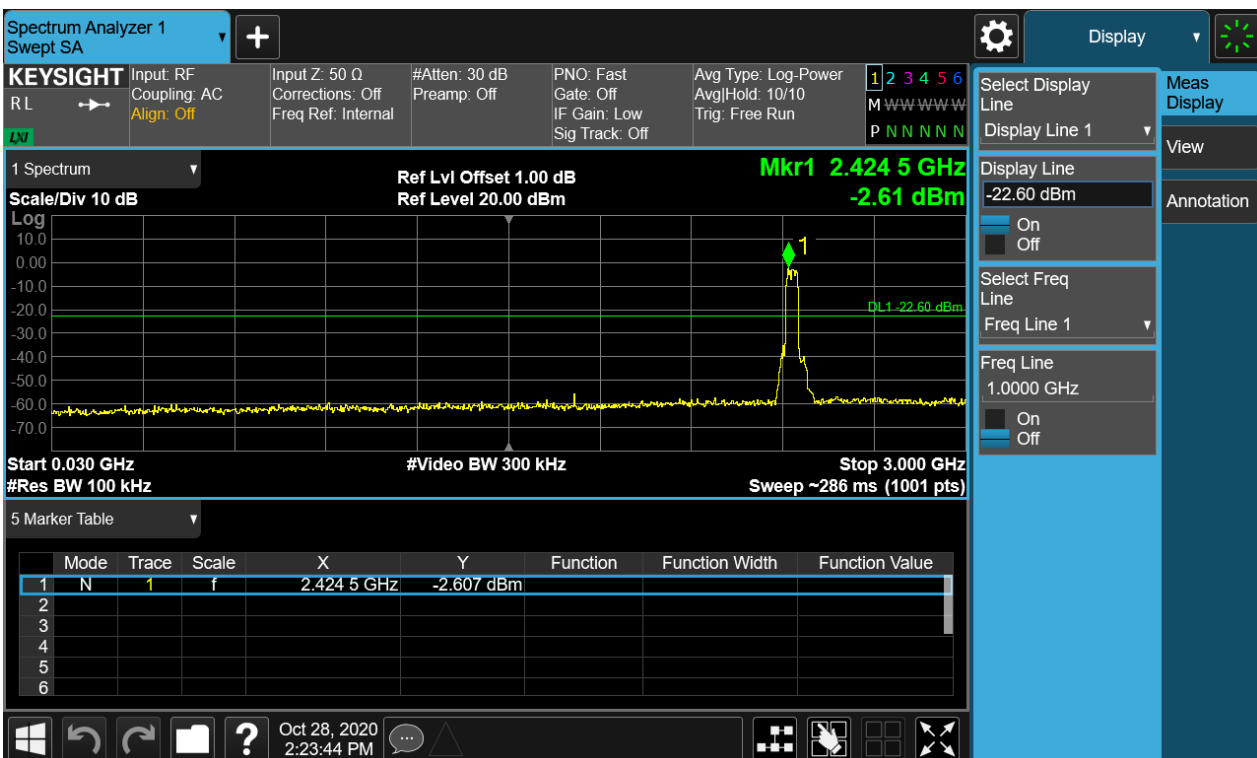
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Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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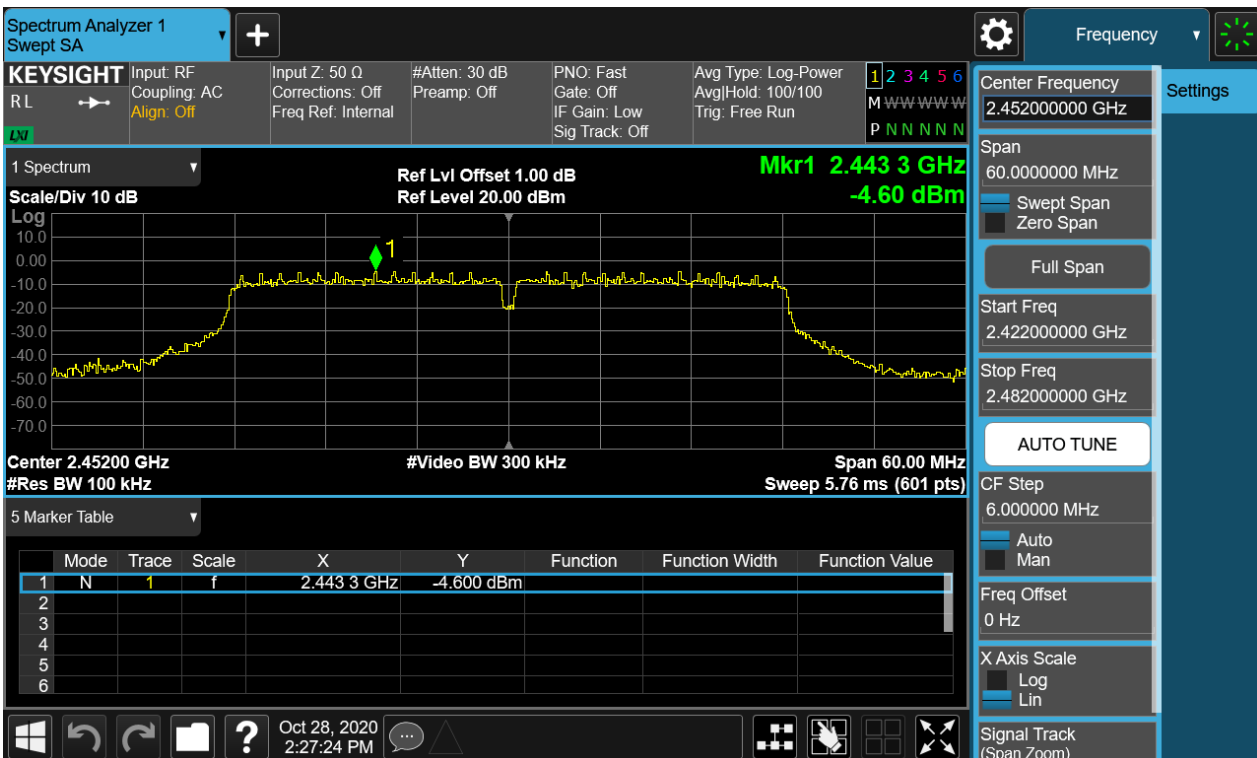
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



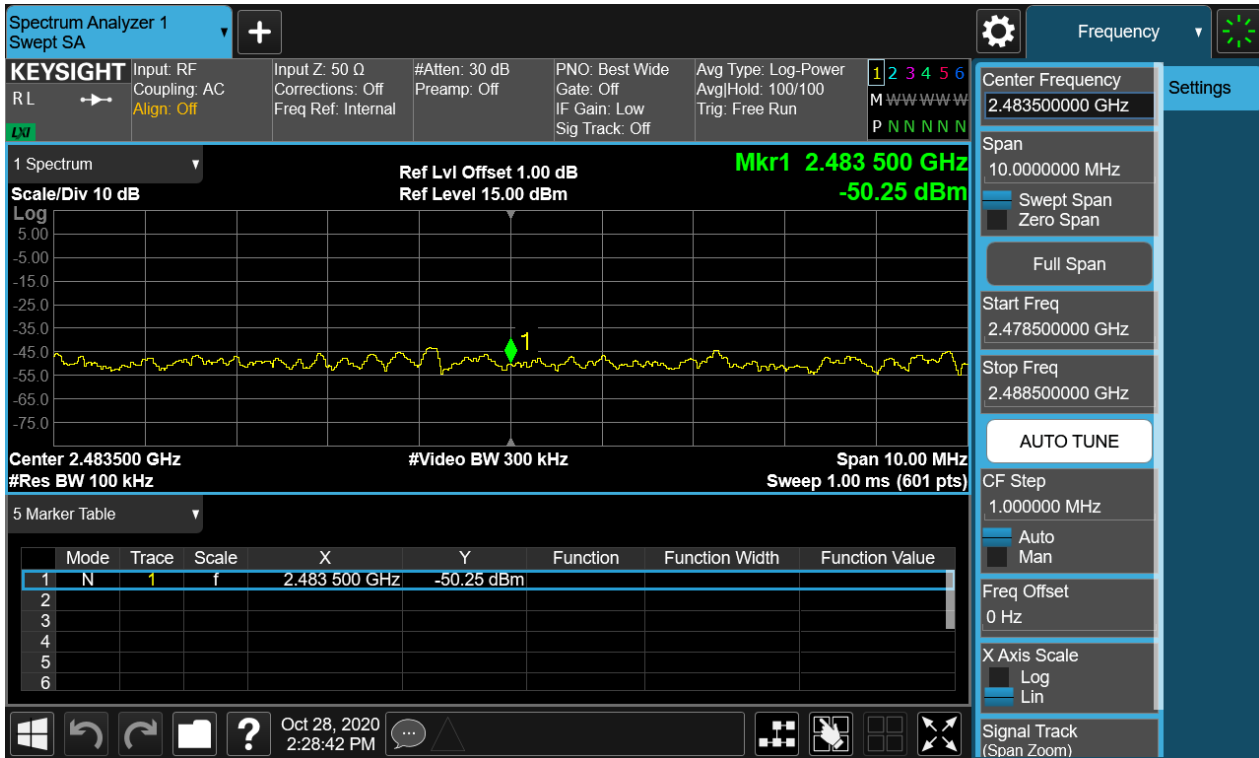
TEST REPORT

Report No.: SHE20090007-02GE

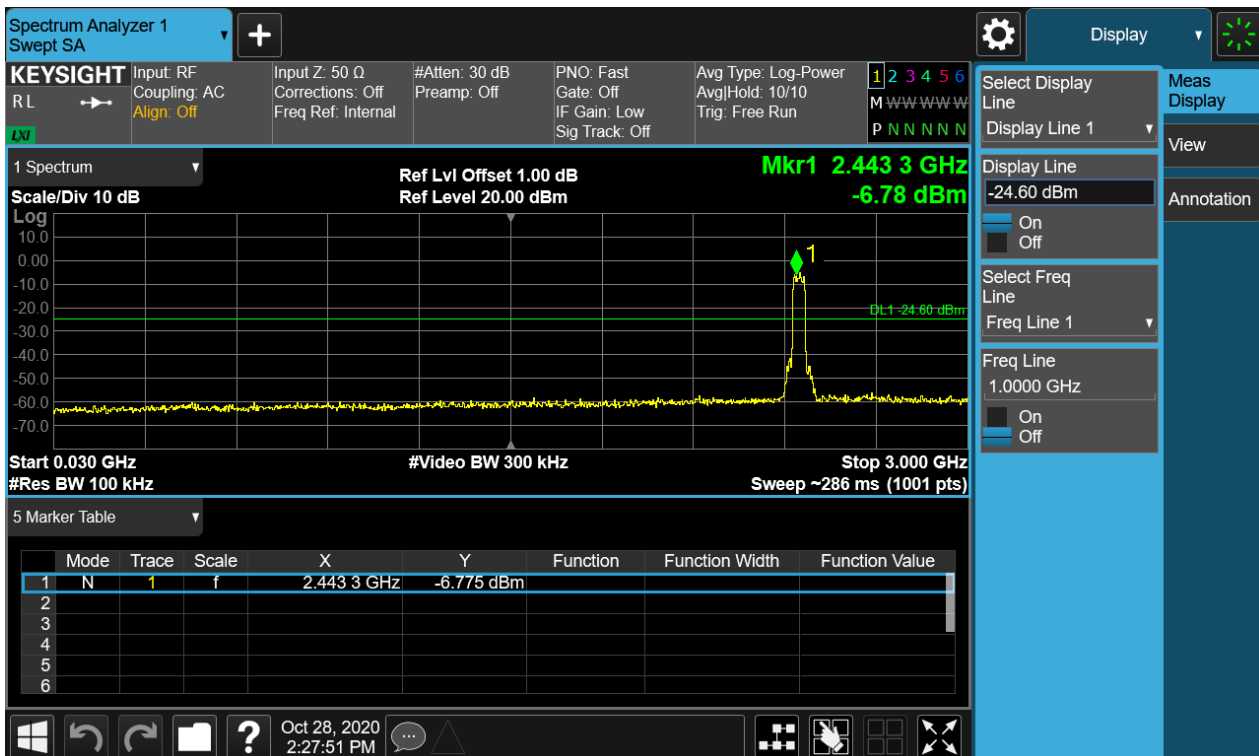
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Band Edge



Conducted spurious emissions 30MHz-25GHz

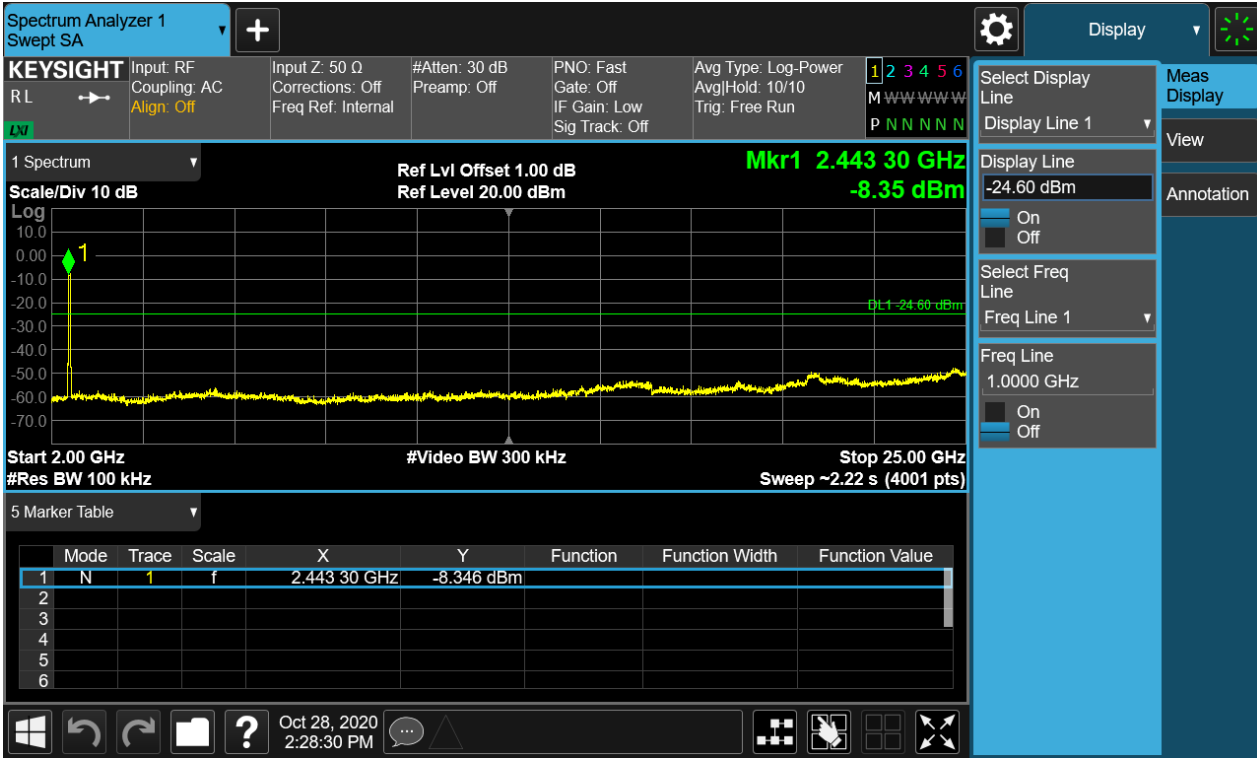


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4.1.6 Spurious Emission

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 "SHE20090007-02GE 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.

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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 "SHE20090007-02GE 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)
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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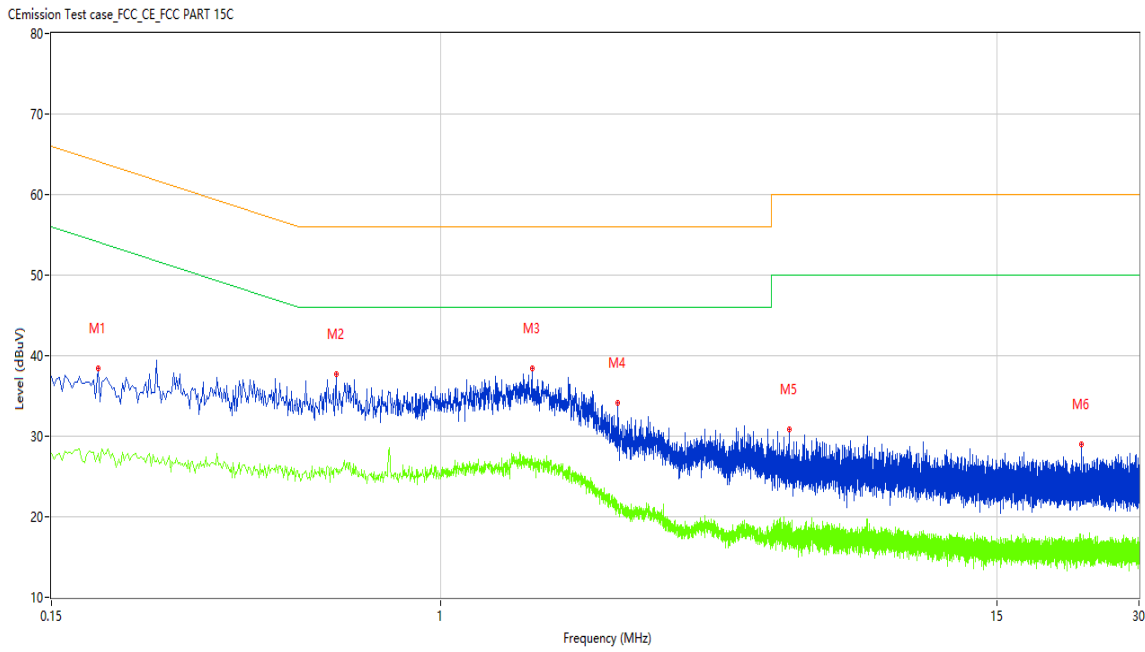
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Note: The all configurations were tested respectively, but only the worst configuration shown here.

Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.188	31.62	9.65	64.12	-32.50	Peak	L	Pass
1*	0.188	23.25	9.65	64.12	-40.87	QP	L	Pass
1**	0.188	27.90	9.65	54.12	-26.22	AV	L	Pass
2	0.600	35.30	9.76	56.00	-20.70	Peak	L	Pass
2*	0.600	24.38	9.76	56.00	-31.62	QP	L	Pass
2**	0.600	25.94	9.76	46.00	-20.06	AV	L	Pass
3	1.562	29.14	9.67	56.00	-26.86	Peak	L	Pass
3*	1.562	22.03	9.67	56.00	-33.97	QP	L	Pass
3**	1.562	26.74	9.67	46.00	-19.26	AV	L	Pass
4	2.370	26.44	9.68	56.00	-29.56	Peak	L	Pass
4*	2.370	16.97	9.68	56.00	-39.03	QP	L	Pass
4**	2.370	21.30	9.68	46.00	-24.70	AV	L	Pass
5	5.464	26.59	9.70	60.00	-33.41	Peak	L	Pass
5*	5.464	15.66	9.70	60.00	-44.34	QP	L	Pass
5**	5.464	18.28	9.70	50.00	-31.72	AV	L	Pass
6	22.712	18.33	9.44	60.00	-41.67	Peak	L	Pass
6*	22.712	11.33	9.44	60.00	-48.67	QP	L	Pass
6**	22.712	16.57	9.44	50.00	-33.43	AV	L	Pass

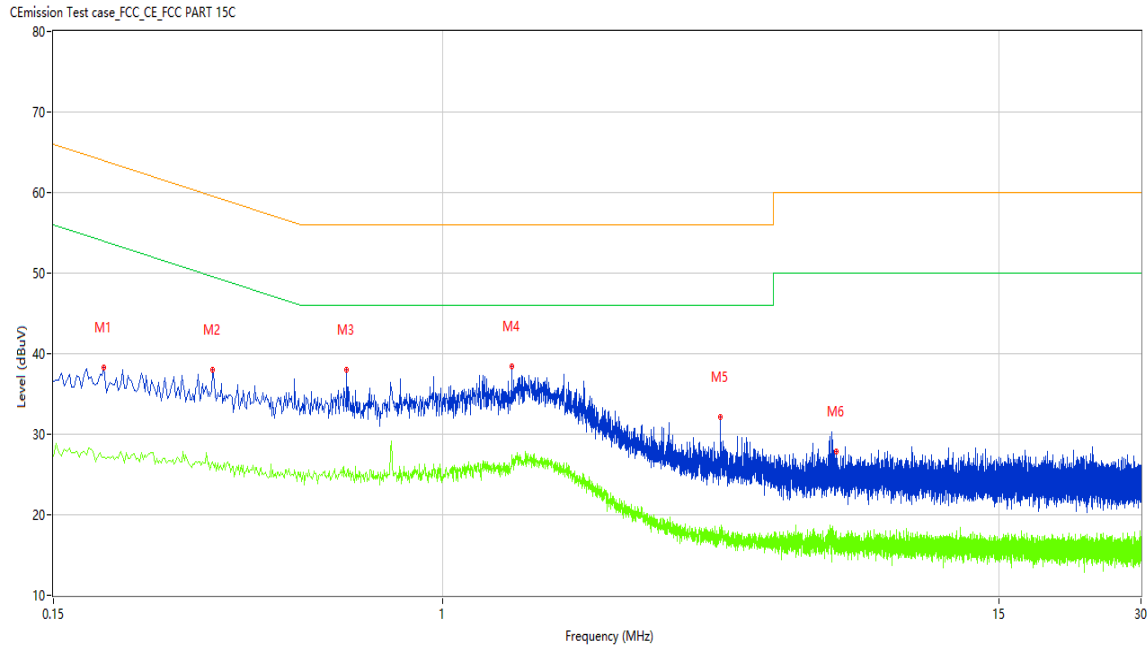
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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.192	32.49	9.65	63.95	-31.46	Peak	N	Pass
1*	0.192	23.14	9.65	63.95	-40.81	QP	N	Pass
1**	0.192	27.08	9.65	53.95	-26.87	AV	N	Pass
2	0.326	32.80	9.71	59.55	-26.75	Peak	N	Pass
2*	0.326	23.18	9.71	59.55	-36.37	QP	N	Pass
2**	0.326	26.53	9.71	49.55	-23.02	AV	N	Pass
3	0.626	36.49	9.77	56.00	-19.51	Peak	N	Pass
3*	0.626	26.50	9.77	56.00	-29.50	QP	N	Pass
3**	0.626	24.92	9.77	46.00	-21.08	AV	N	Pass
4	1.400	31.02	9.67	56.00	-24.98	Peak	N	Pass
4*	1.400	22.92	9.67	56.00	-33.08	QP	N	Pass
4**	1.400	27.50	9.67	46.00	-18.50	AV	N	Pass
5	3.870	26.79	9.68	56.00	-29.21	Peak	N	Pass
5*	3.870	15.58	9.68	56.00	-40.42	QP	N	Pass
5**	3.870	17.94	9.68	46.00	-28.06	AV	N	Pass
6	6.808	29.64	9.68	60.00	-30.36	Peak	N	Pass
6*	6.808	17.66	9.68	60.00	-42.34	QP	N	Pass
6**	6.808	17.02	9.68	50.00	-32.98	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Rear of the sample

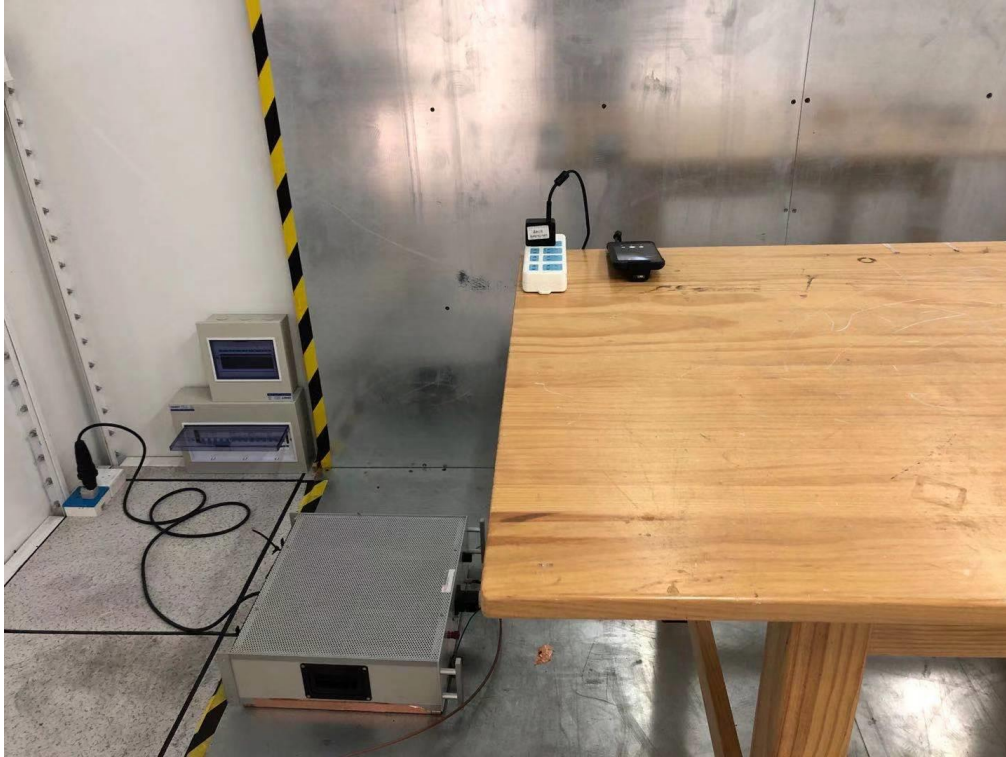
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5.2 Set-up for Conducted Emissions



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