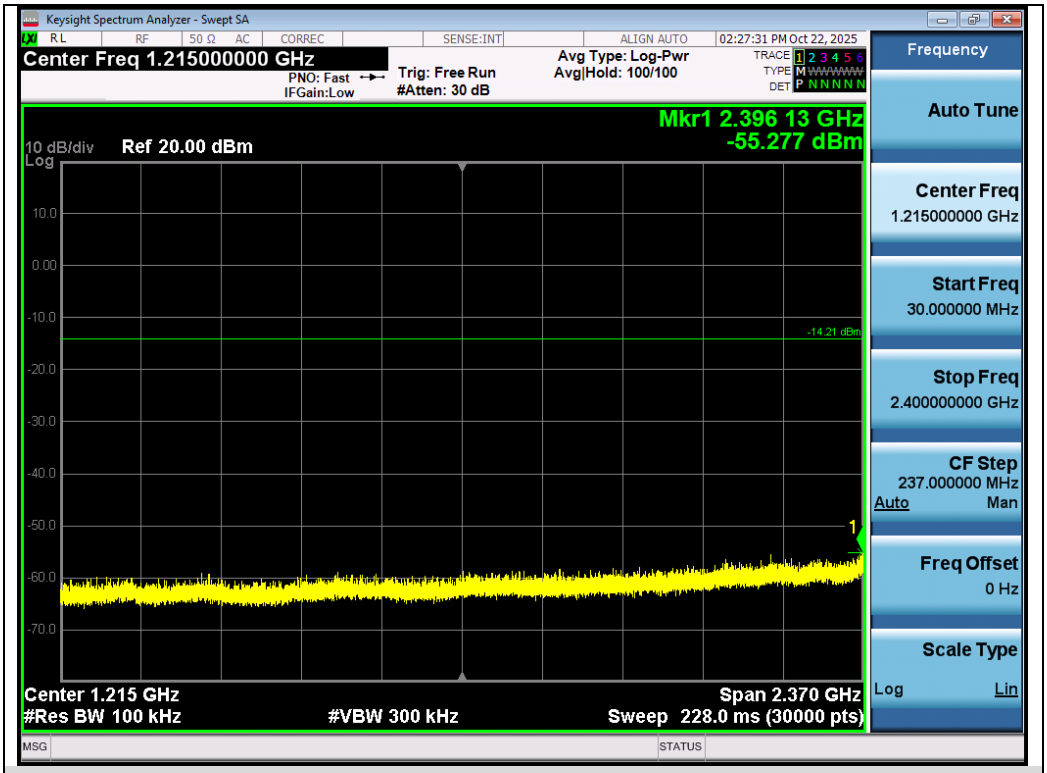

Test_Graph_802.11b_Chain B_2462_1Mbps_Lower Band Emissions

Test_Graph_802.11b_Chain B_2462_1Mbps_Higher Band Emissions

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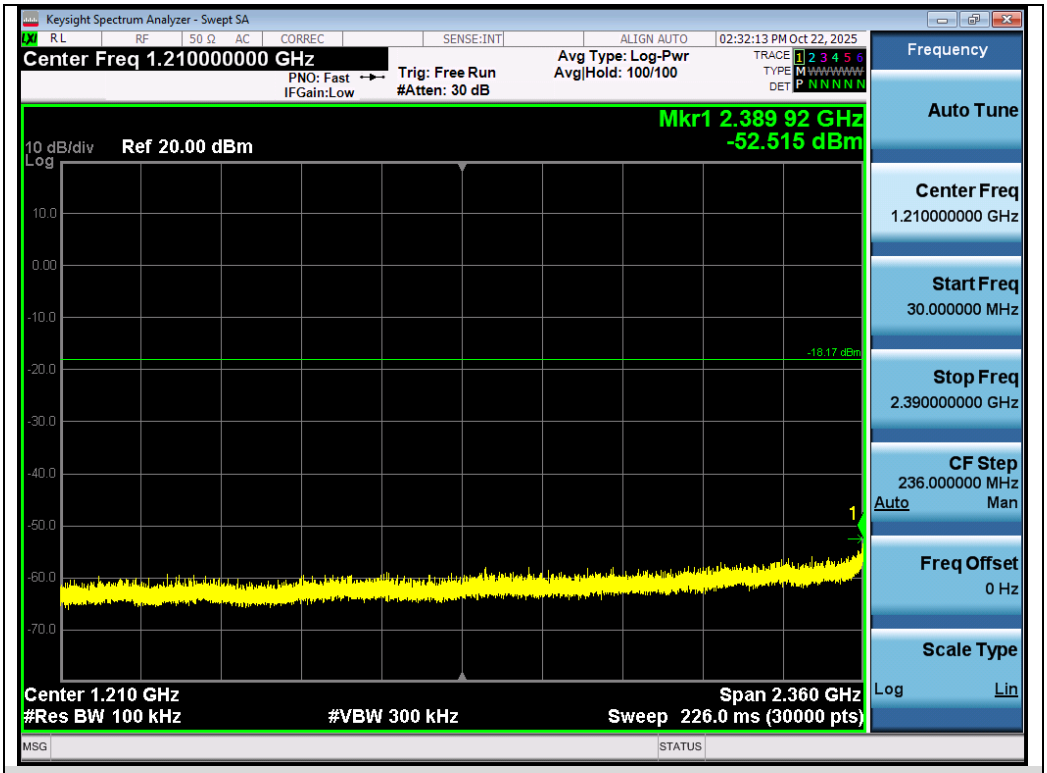

Test_Graph_802.11g_Chain B_2412_6Mbps_Lower Band Emissions

Test_Graph_802.11g_Chain B_2412_6Mbps_Higher Band Emissions

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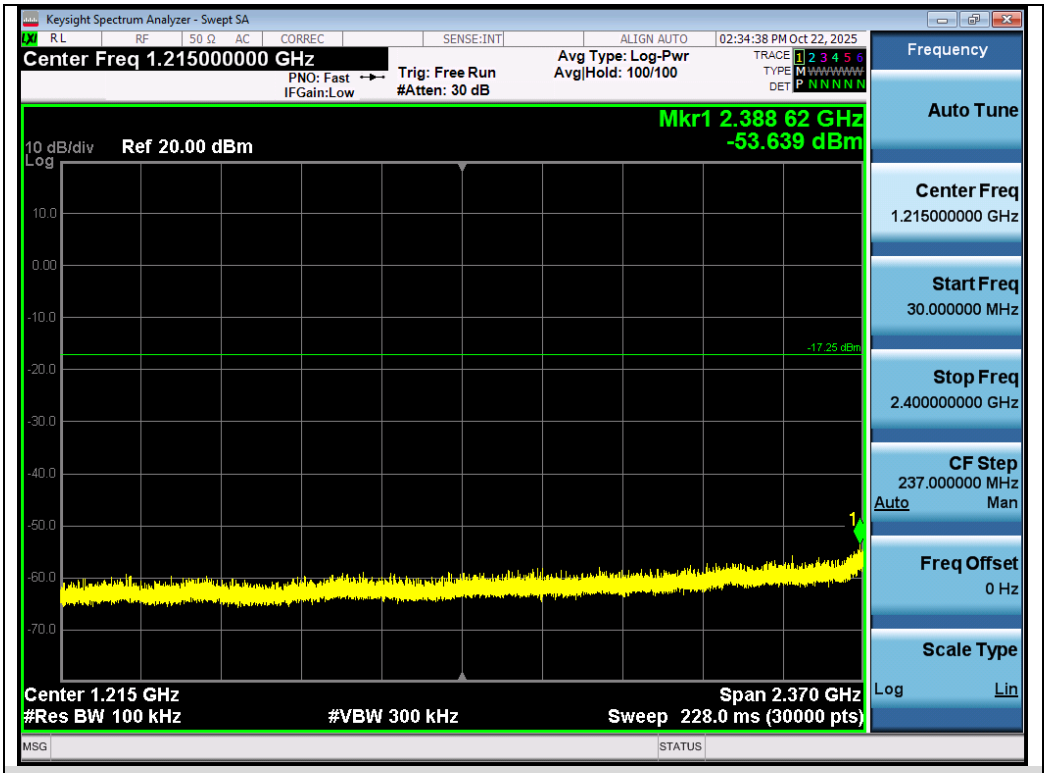

Test_Graph_802.11g_Chain B_2437_6Mbps_Lower Band Emissions

Test_Graph_802.11g_Chain B_2437_6Mbps_Higher Band Emissions

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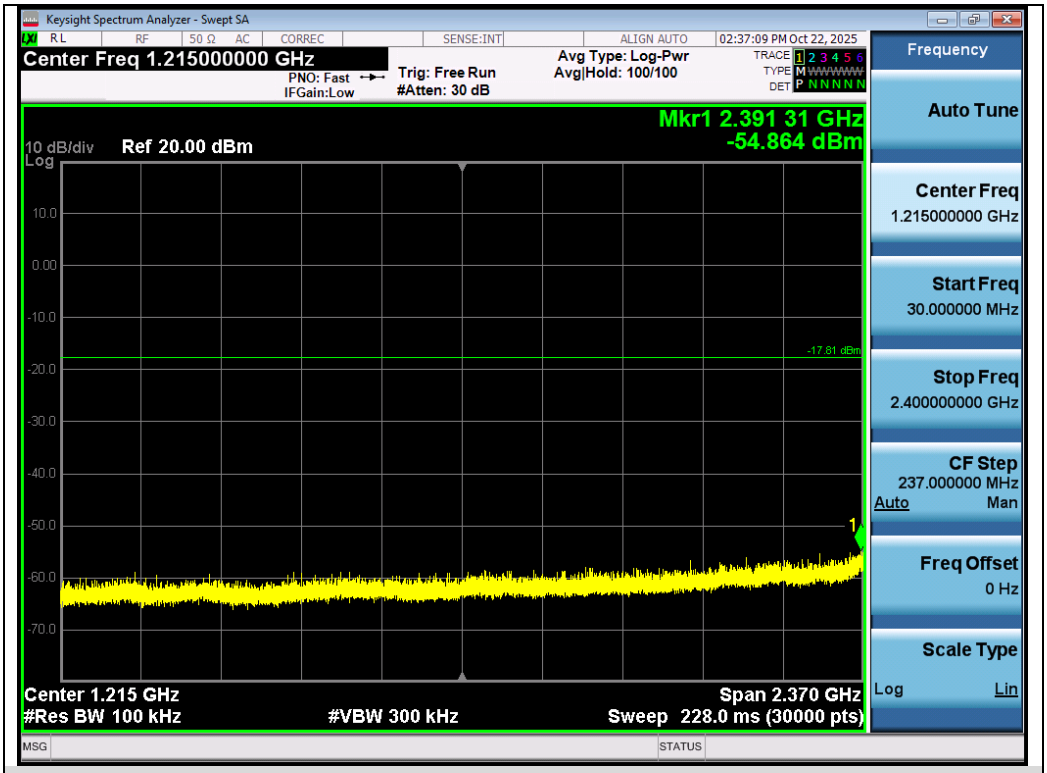

Test_Graph_802.11g_Chain B_2462_6Mbps_Lower Band Emissions

Test_Graph_802.11g_Chain B_2462_6Mbps_Higher Band Emissions

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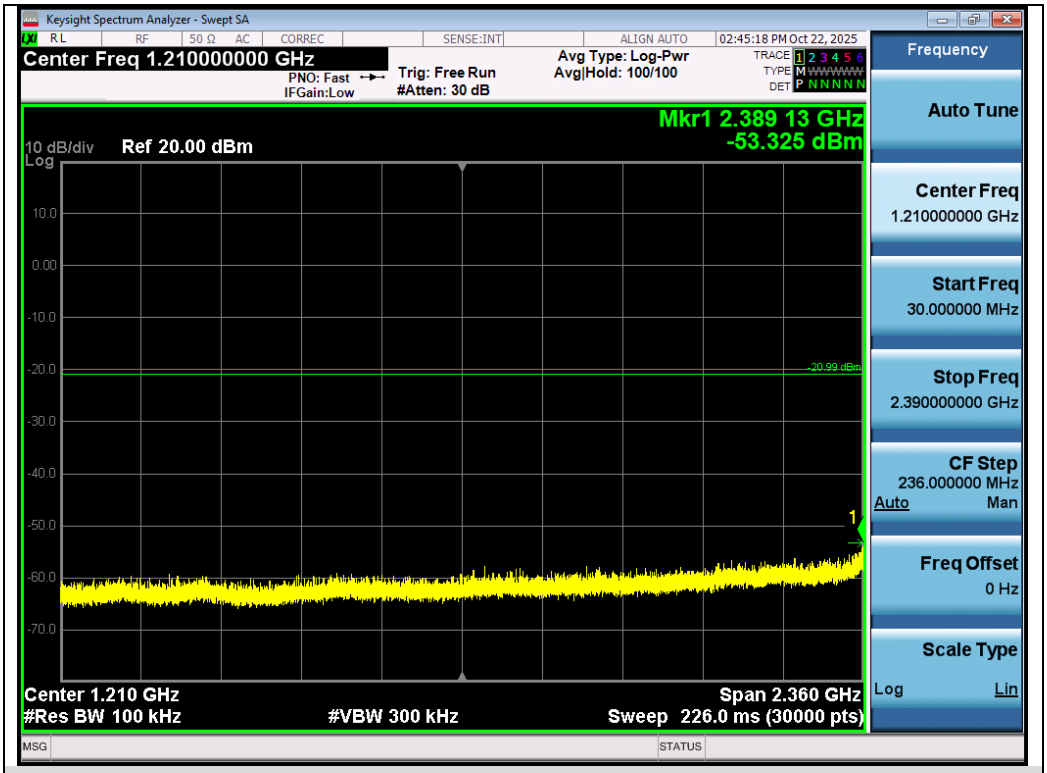

Test_Graph_802.11n20_Chain B_2412_MCS0_Lower Band Emissions

Test_Graph_802.11n20_Chain B_2412_MCS0_Higher Band Emissions

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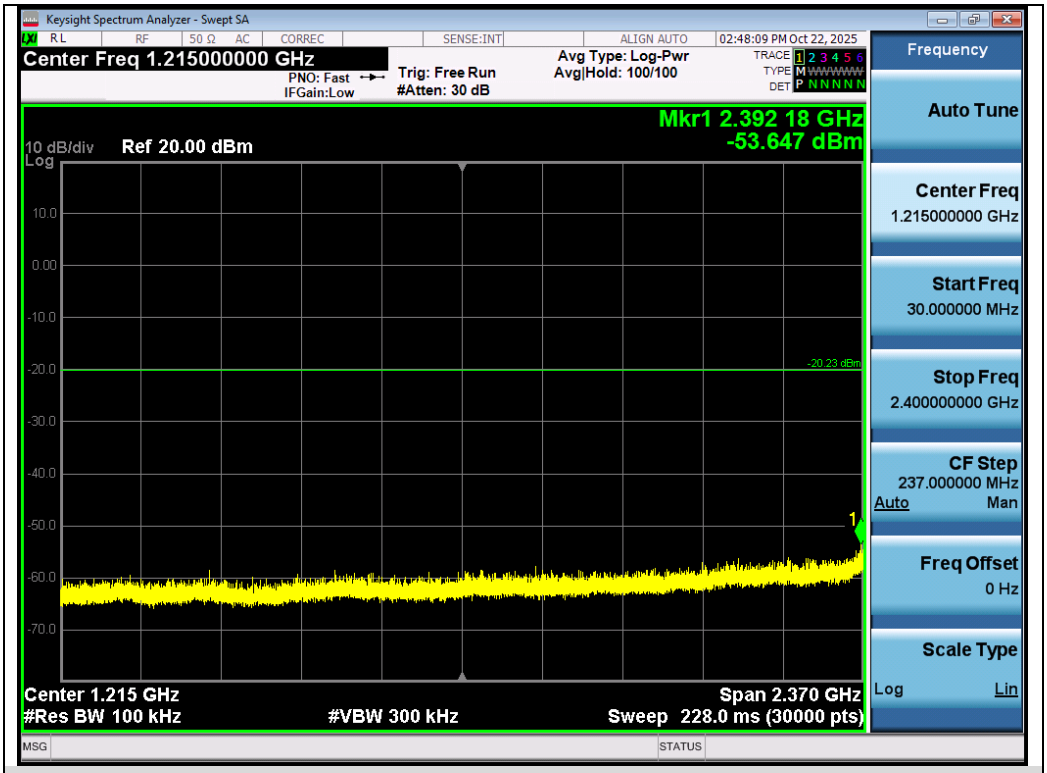

Test_Graph_802.11n20_Chain B_2437_MCS0_Lower Band Emissions

Test_Graph_802.11n20_Chain B_2437_MCS0_Higher Band Emissions

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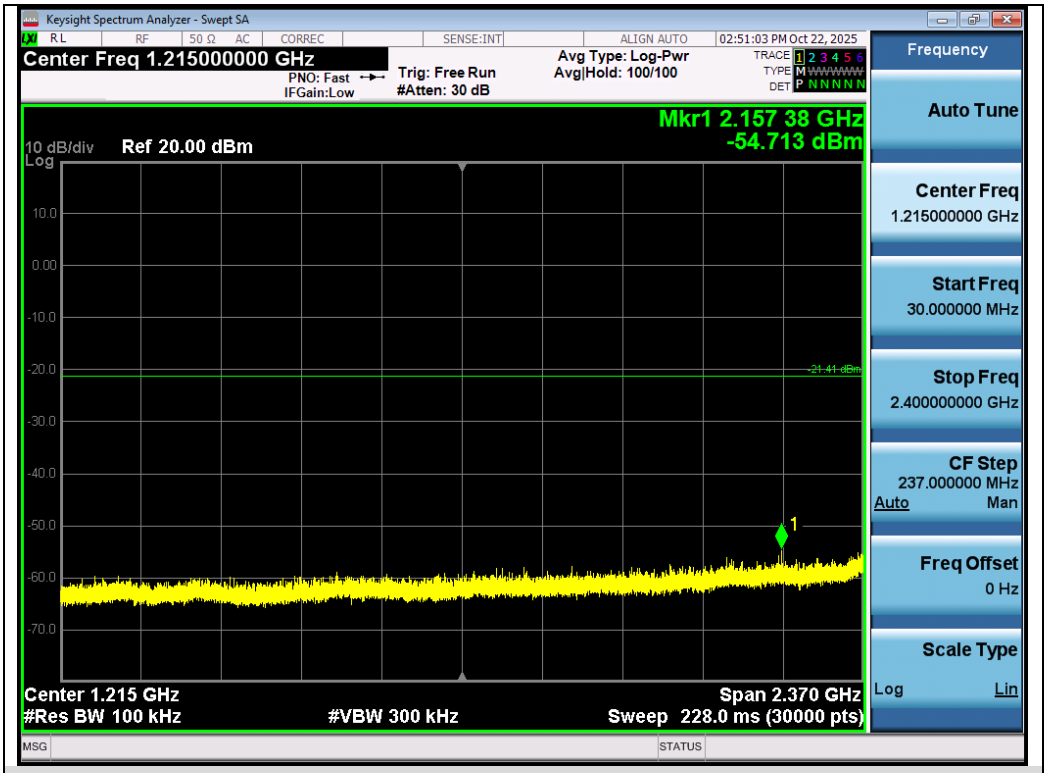

Test_Graph_802.11n20_Chain B_2462_MCS0_Lower Band Emissions

Test_Graph_802.11n20_Chain B_2462_MCS0_Higher Band Emissions

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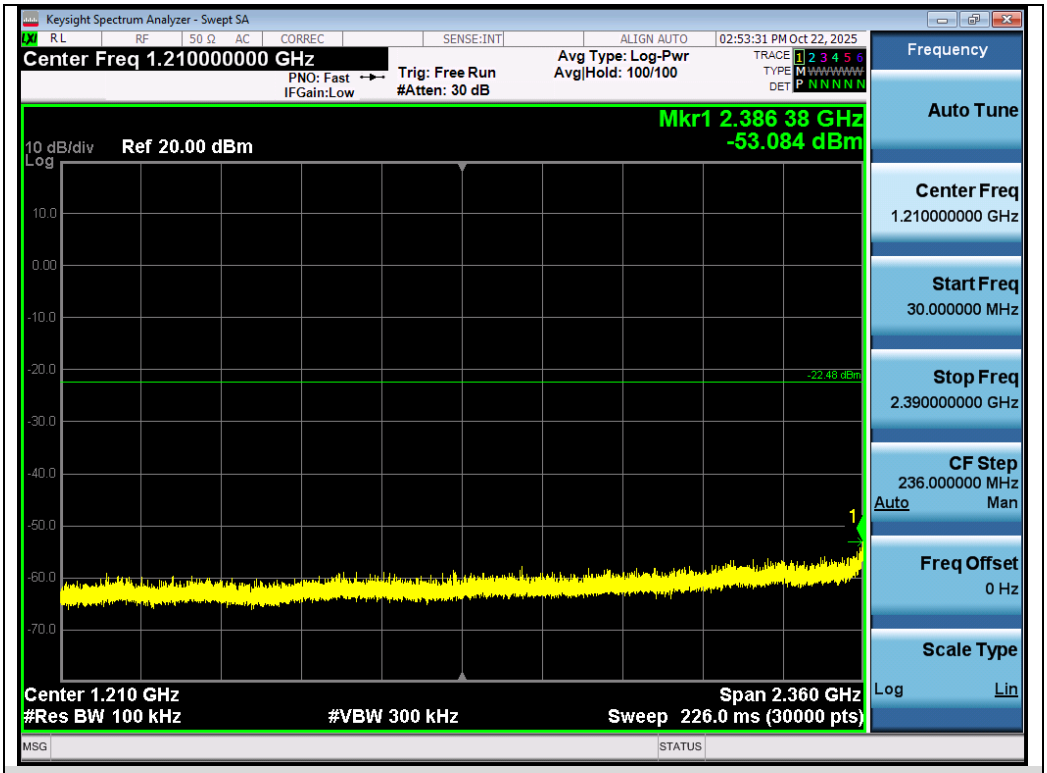

Test_Graph_802.11n40_Chain B_2422_MCS0_Lower Band Emissions

Test_Graph_802.11n40_Chain B_2422_MCS0_Higher Band Emissions

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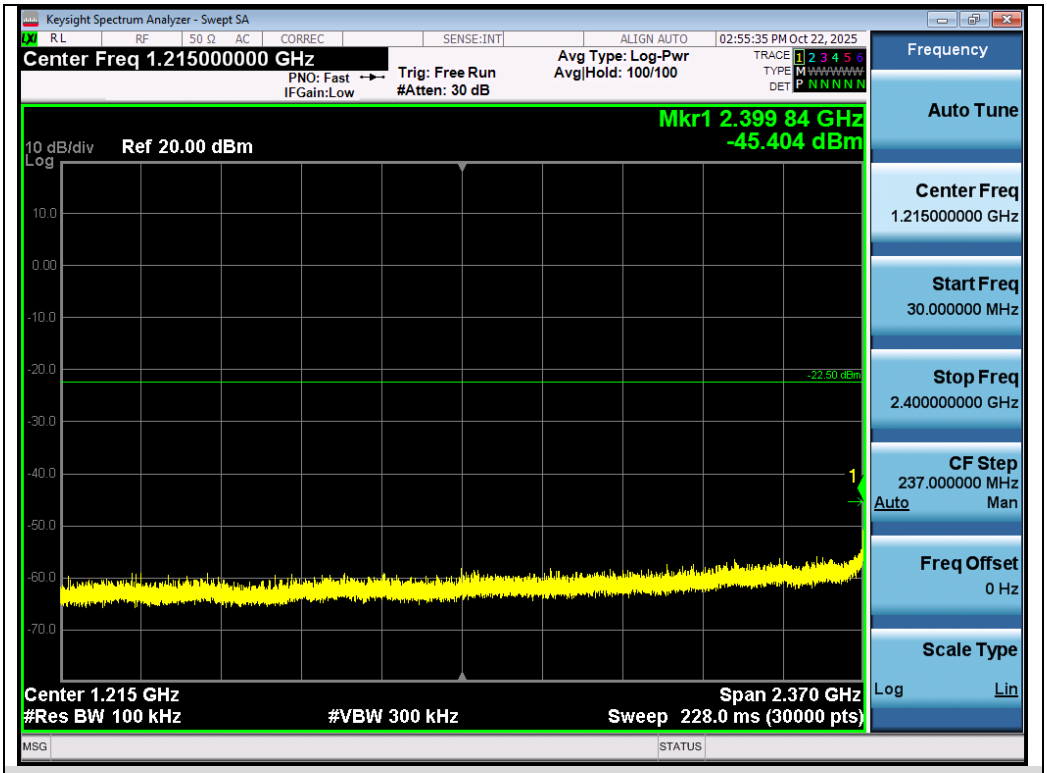

Test_Graph_802.11n40_Chain B_2437_MCS0_Lower Band Emissions

Test_Graph_802.11n40_Chain B_2437_MCS0_Higher Band Emissions

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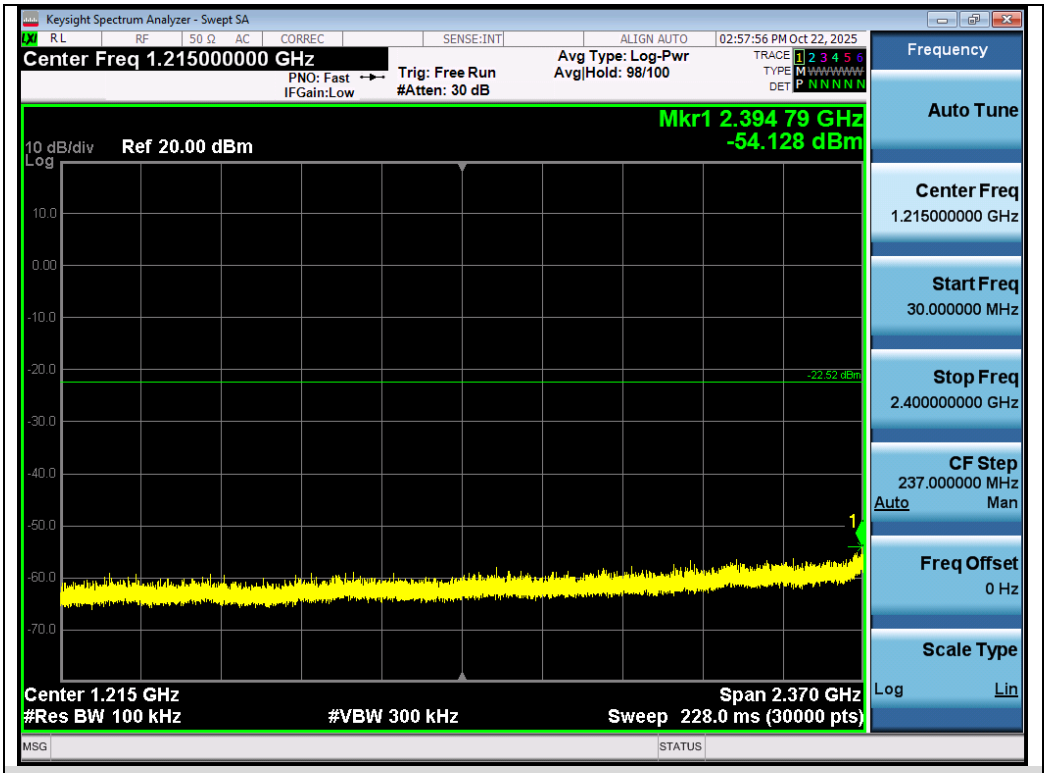

Test_Graph_802.11n40_Chain B_2452_MCS0_Lower Band Emissions

Test_Graph_802.11n40_Chain B_2452_MCS0_Higher Band Emissions

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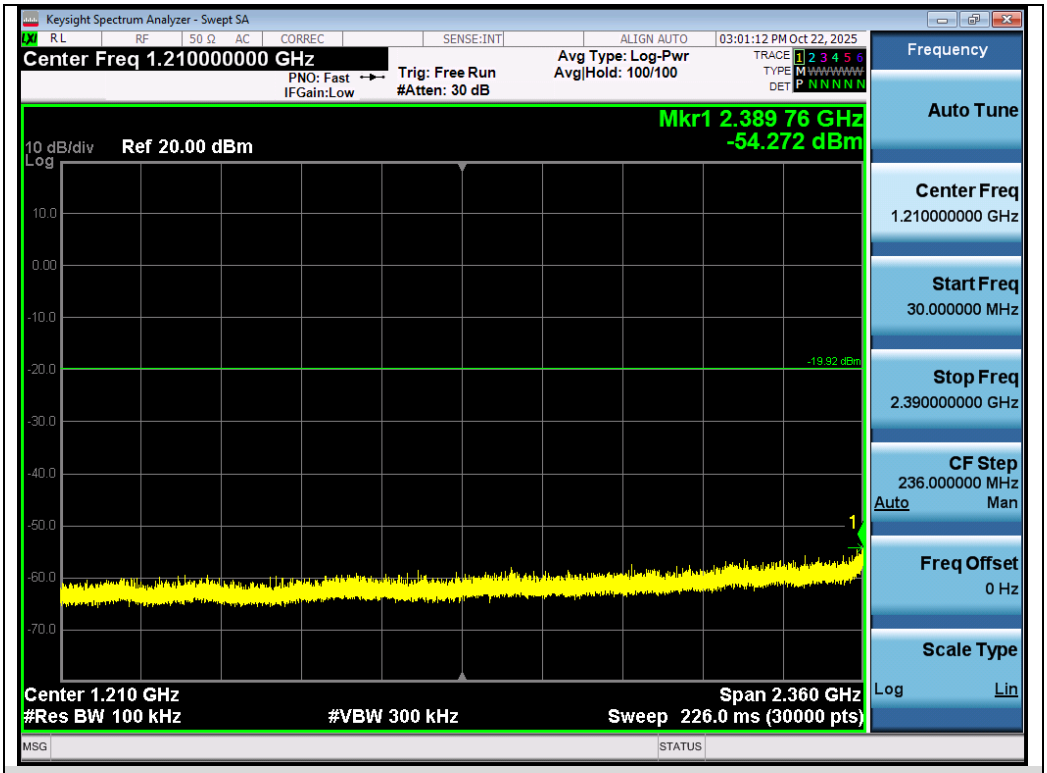

Test_Graph_802.11ax20_Chain B_2412_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_Chain B_2412_MCS0_Higher Band Emissions

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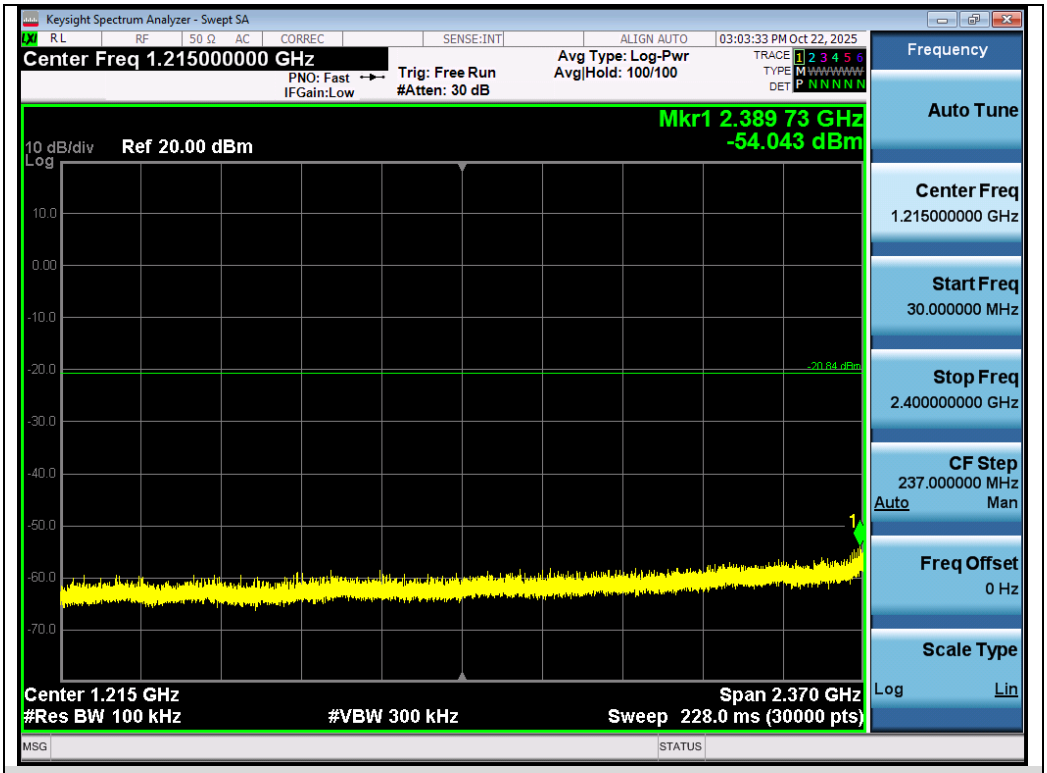

Test_Graph_802.11ax20_Chain B_2437_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_Chain B_2437_MCS0_Higher Band Emissions

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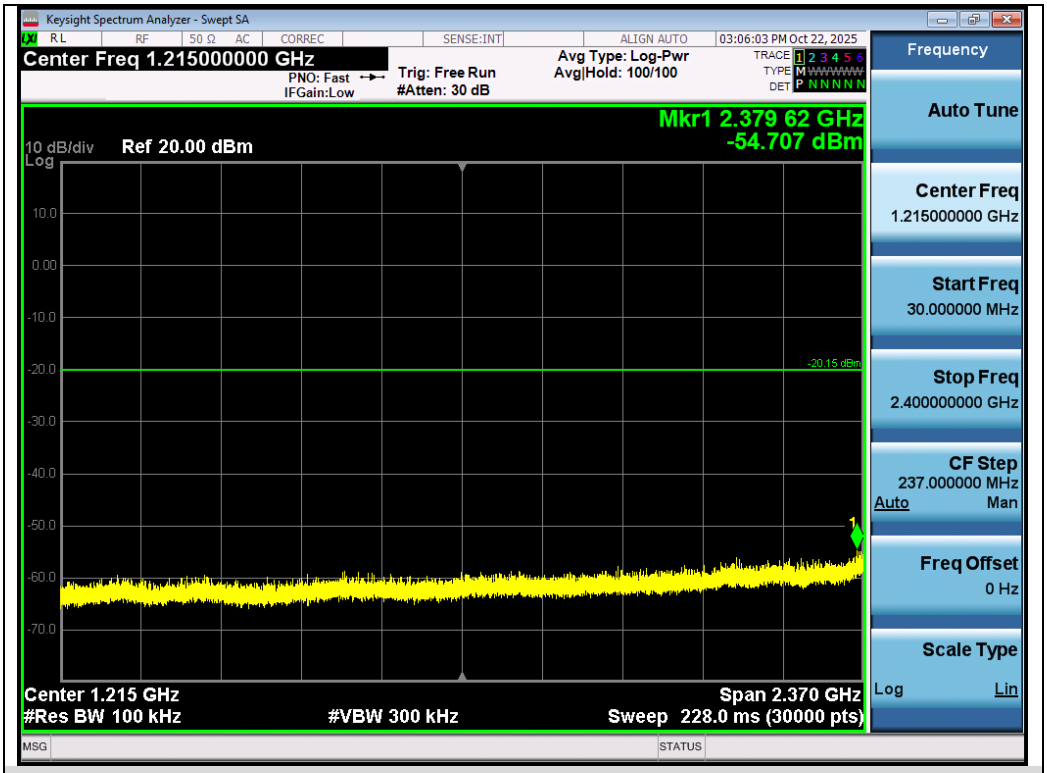

Test_Graph_802.11ax20_Chain B_2462_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_Chain B_2462_MCS0_Higher Band Emissions

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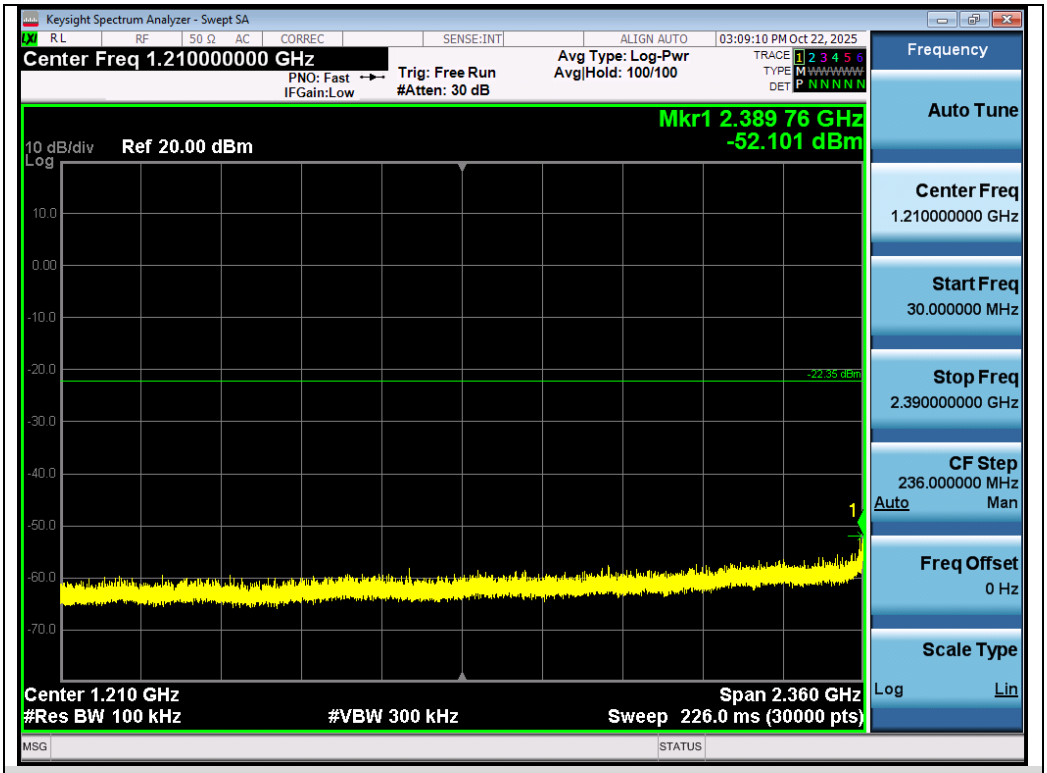

Test_Graph_802.11ax40_Chain B_2422_MCS0_Lower Band Emissions

Test_Graph_802.11ax40_Chain B_2422_MCS0_Higher Band Emissions

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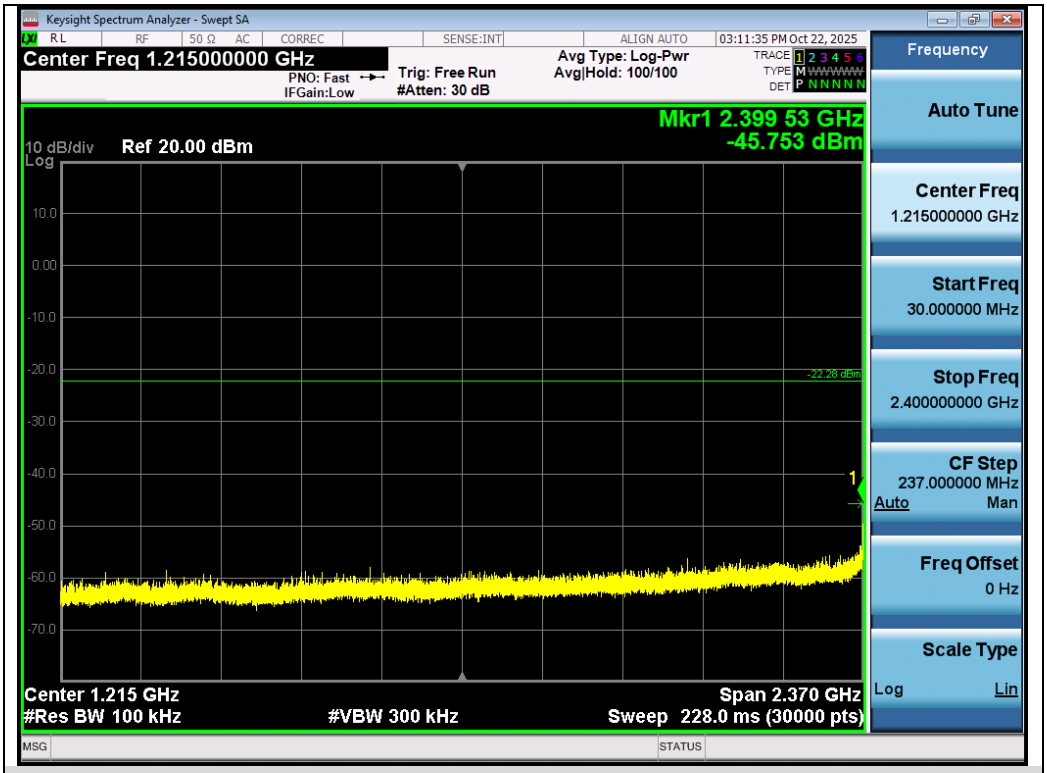

Test_Graph_802.11ax40_Chain B_2437_MCS0_Lower Band Emissions

Test_Graph_802.11ax40_Chain B_2437_MCS0_Higher Band Emissions

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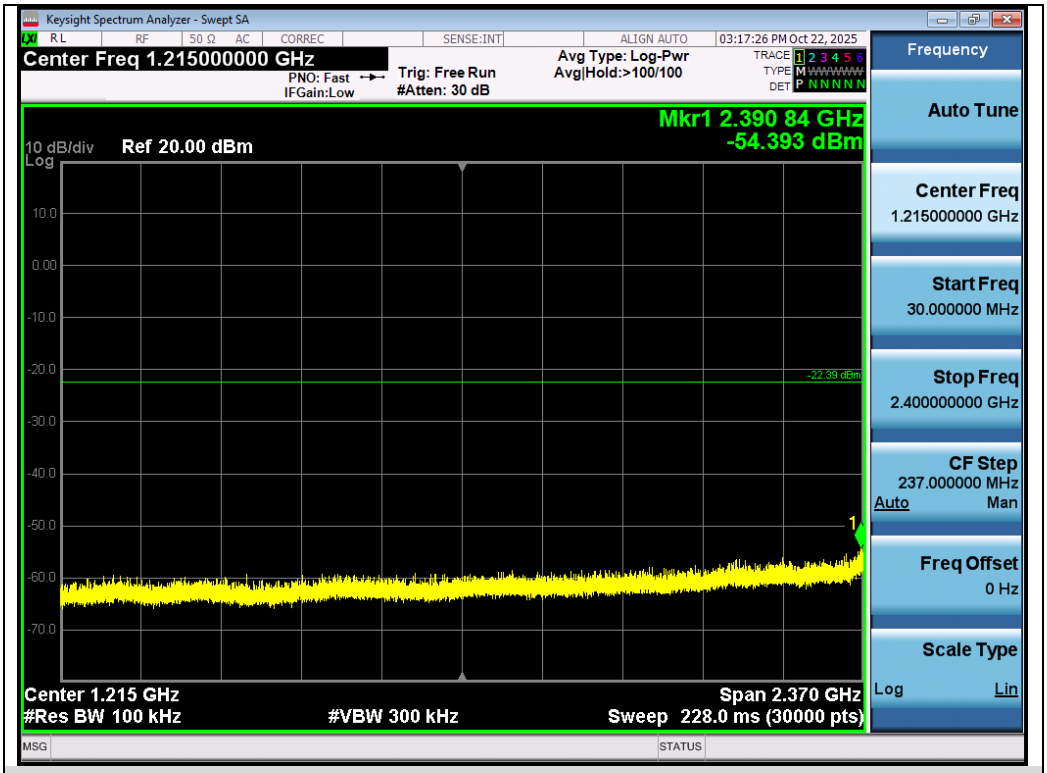

Test_Graph_802.11ax40_Chain B_2452_MCS0_Lower Band Emissions

Test_Graph_802.11ax40_Chain B_2452_MCS0_Higher Band Emissions

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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

Test_Graph_802.11b_Chain A_2412_1Mbps_Lower Band Edge Emissions

Test_Graph_802.11g_Chain A_2412_6Mbps_Lower Band Edge Emissions

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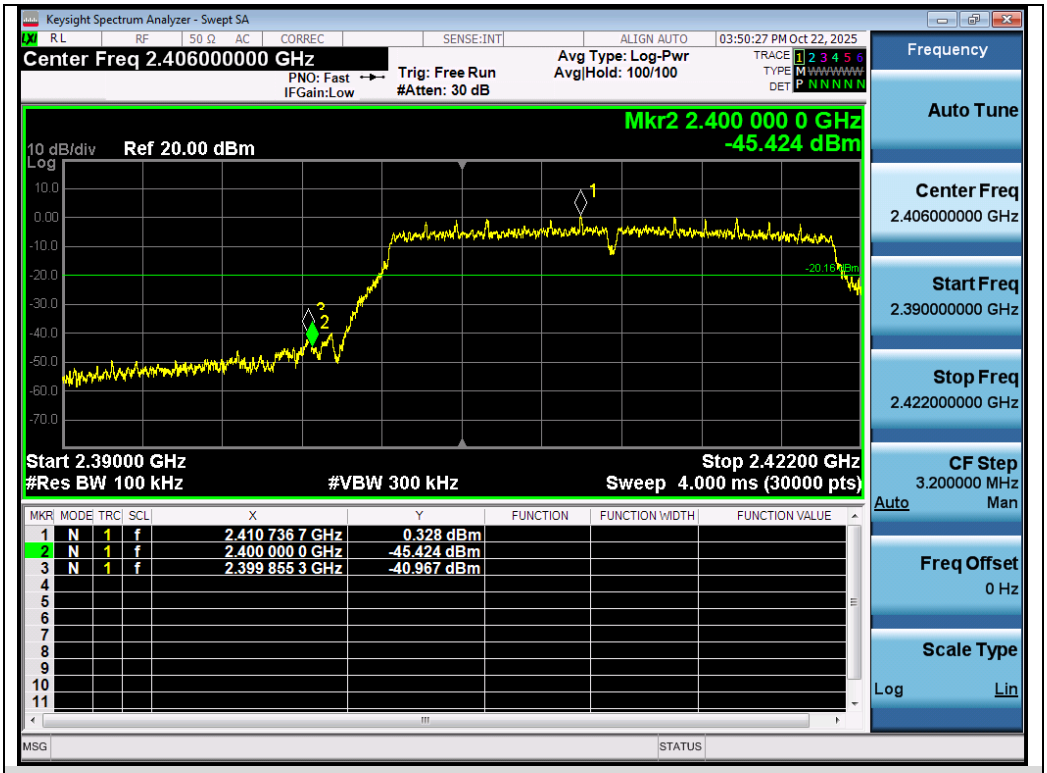

Test_Graph_802.11n20_Chain A_2412_MCS0_Lower Band Edge Emissions

Test_Graph_802.11n40_Chain A_2422_MCS0_Lower Band Edge Emissions

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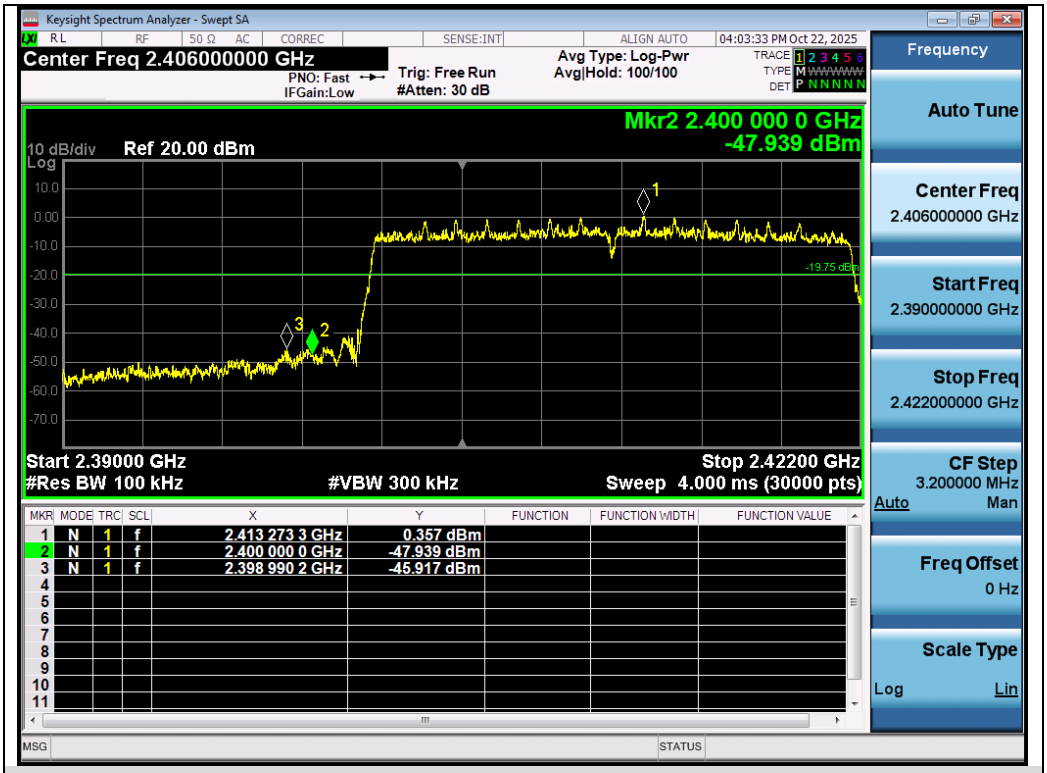
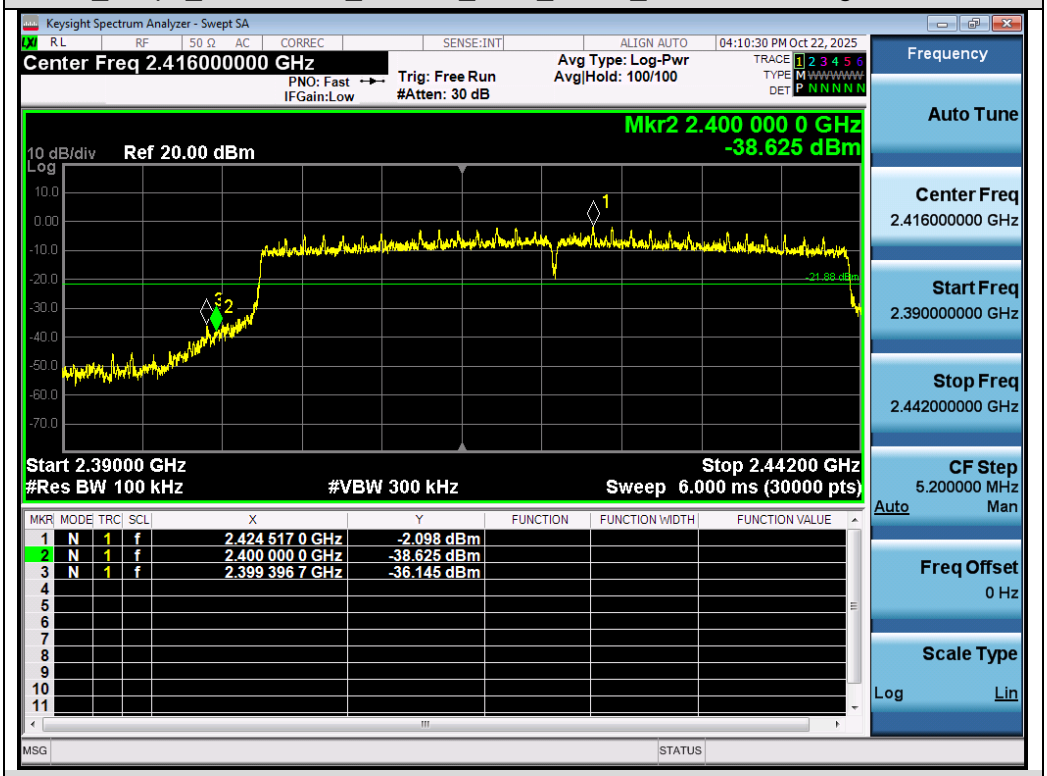


Test_Graph_802.11ax20_Chain A_2412_MCS0_Lower Band Edge Emissions



Test_Graph_802.11ax40_Chain A_2422_MCS0_Lower Band Edge Emissions

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Test_Graph_802.11b_Chain B_2412_1Mbps_Lower Band Edge Emissions

Test_Graph_802.11g_Chain B_2412_6Mbps_Lower Band Edge Emissions

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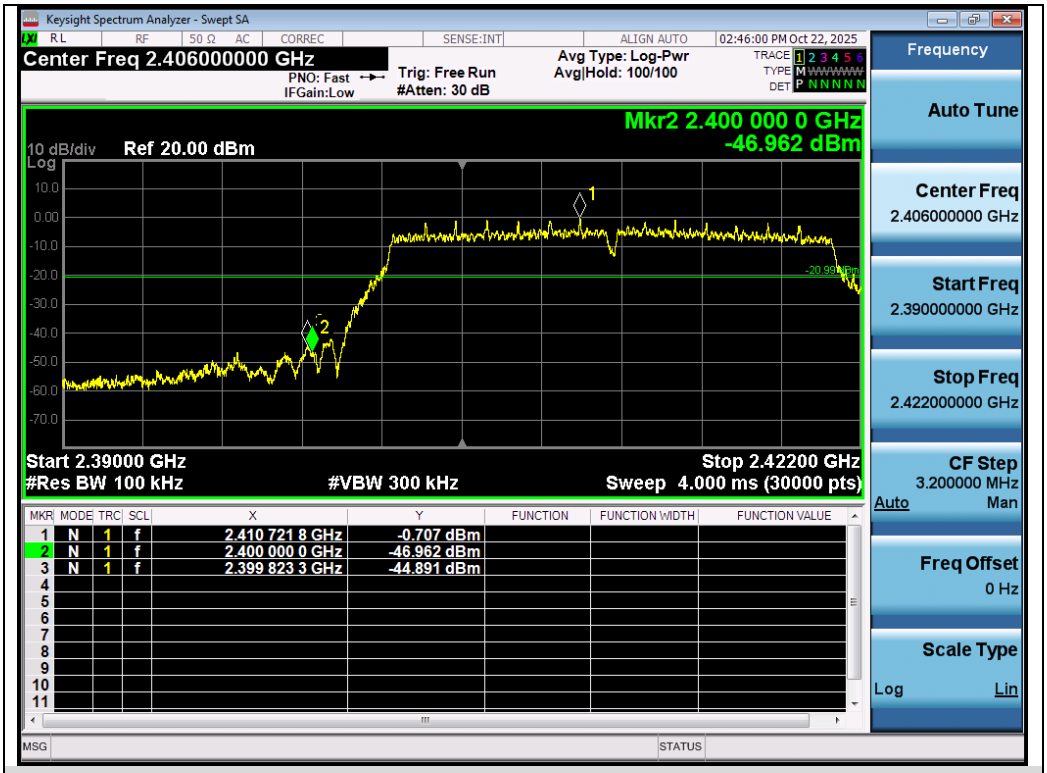
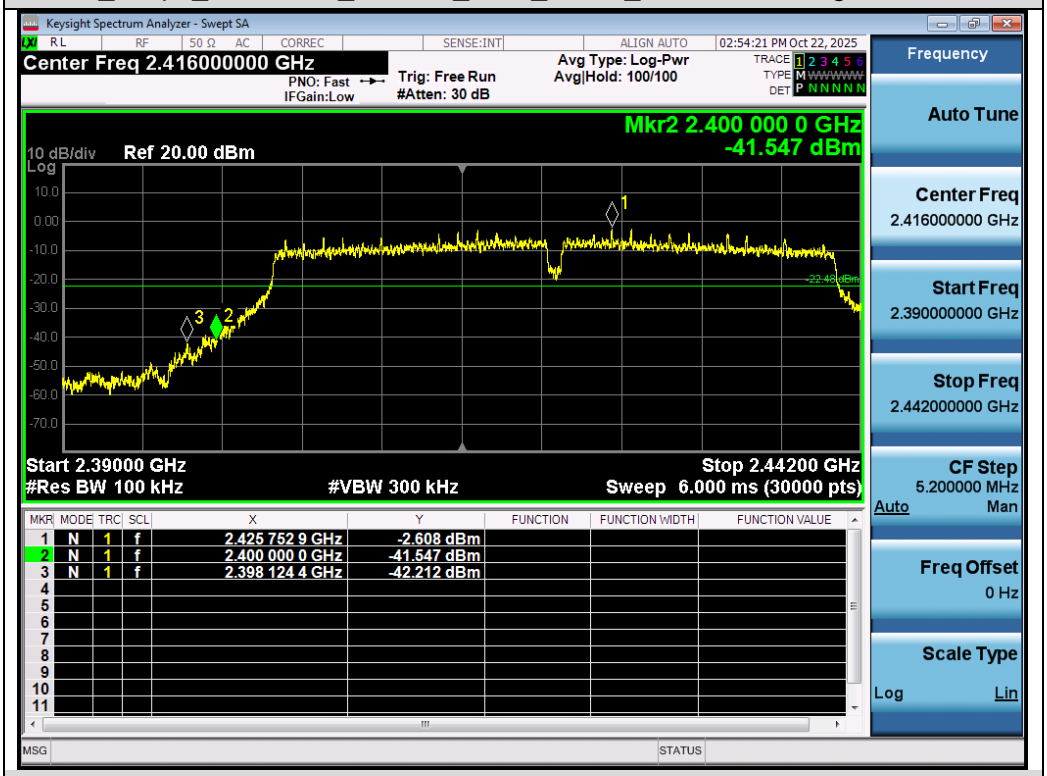


Test_Graph_802.11n20_Chain B_2412_MCS0_Lower Band Edge Emissions



Test_Graph_802.11n40_Chain B_2422_MCS0_Lower Band Edge Emissions

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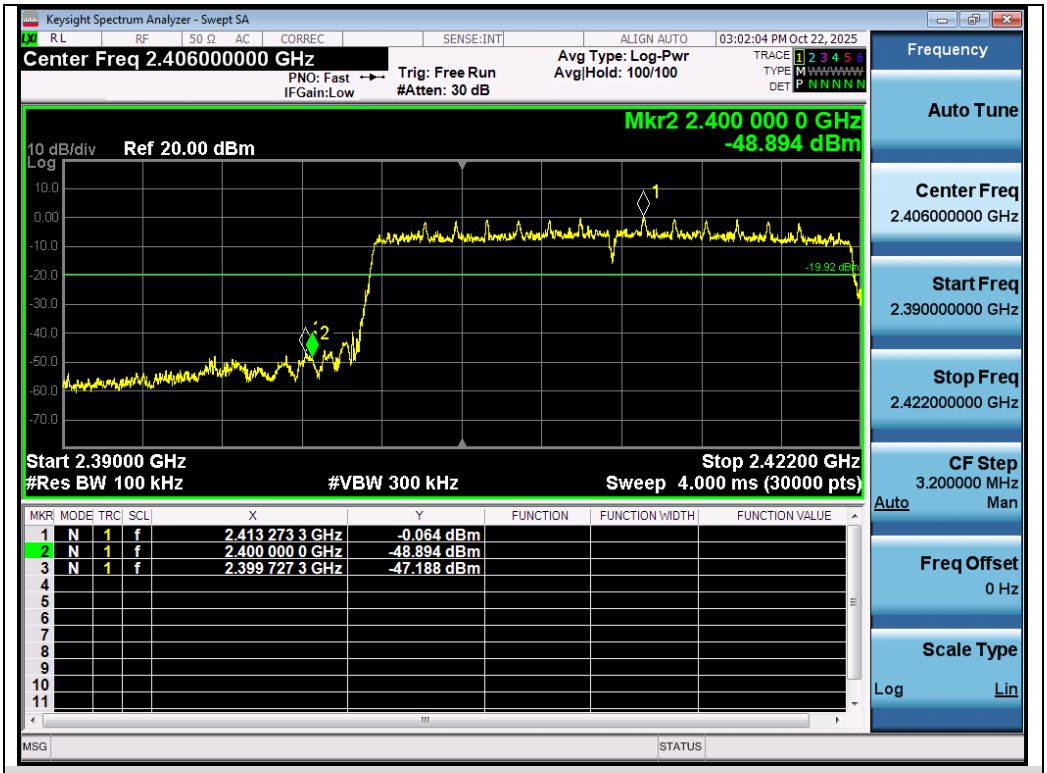
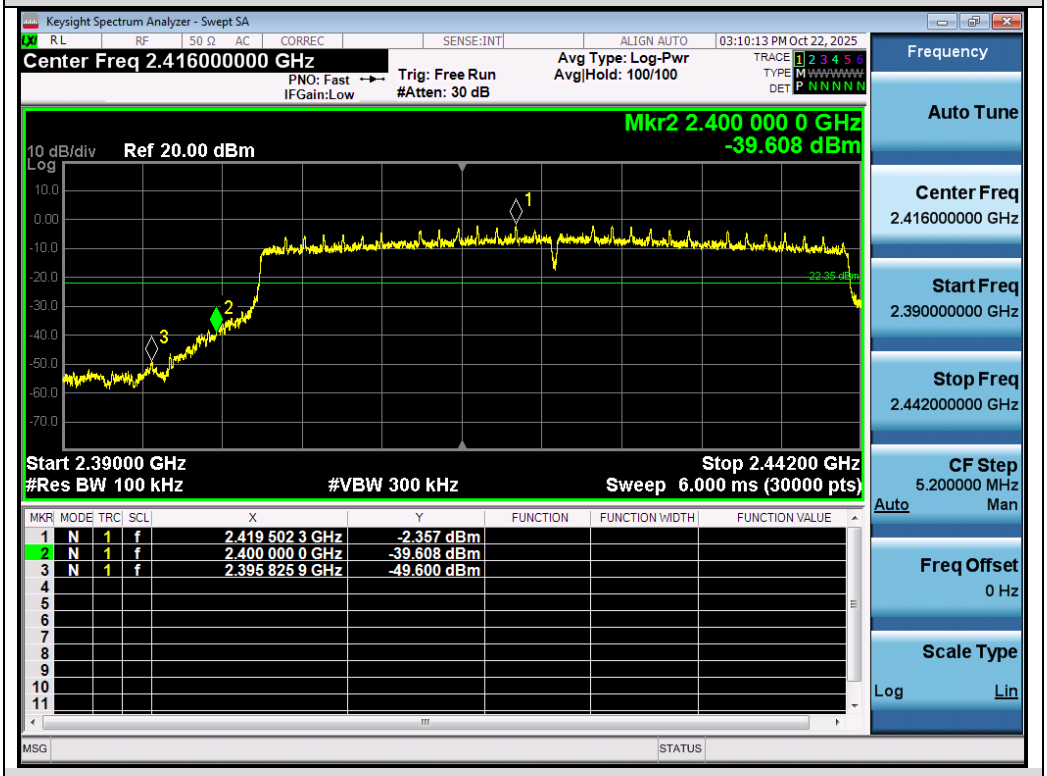


Test_Graph_802.11ax20_Chain B_2412_MCS0_Lower Band Edge Emissions



Test_Graph_802.11ax40_Chain B_2422_MCS0_Lower Band Edge Emissions

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11. Radiated Spurious Emission

11.1 Measurement Limits

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

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As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

◆ The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

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- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

- **Average Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ [3 × RBW]
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is [10*log (1 / D)], where D is the duty cycle. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

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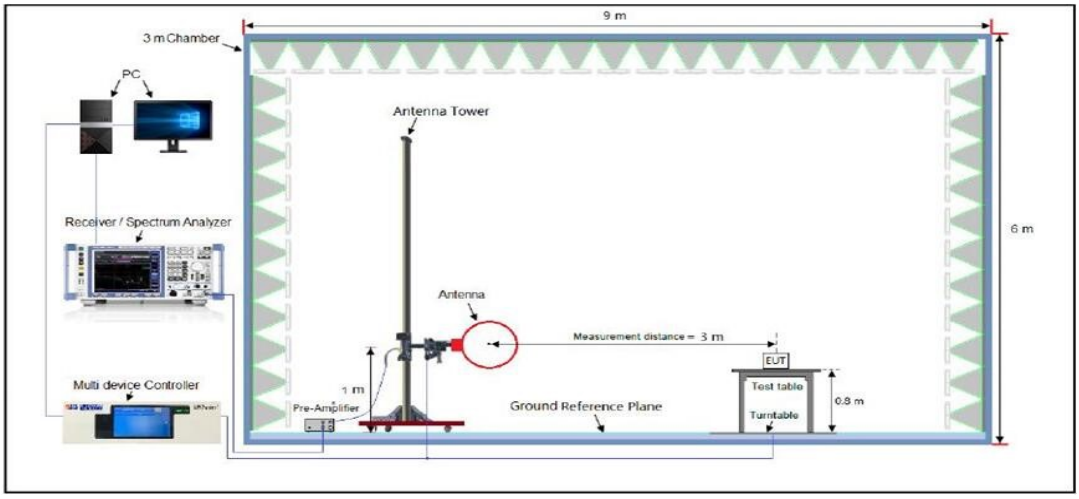
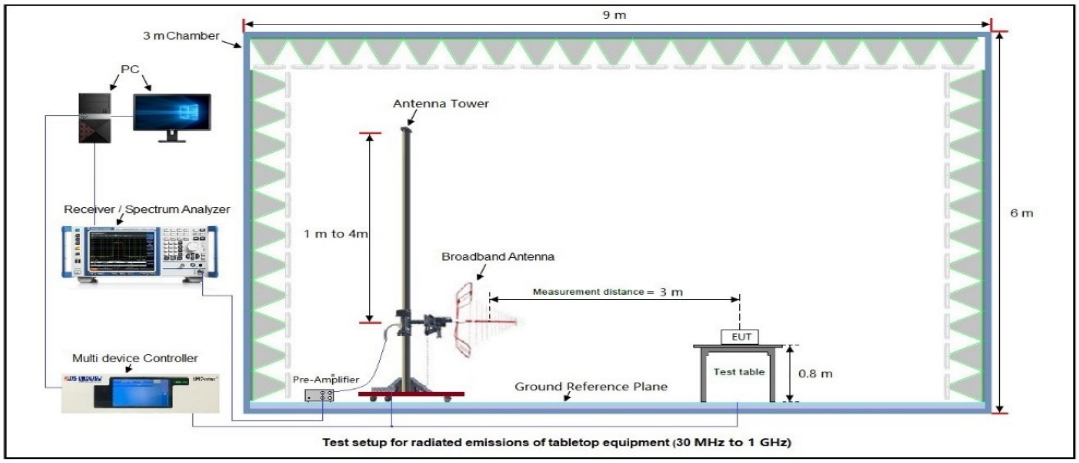
11.3 Measurement Setup (Block Diagram of Configuration)

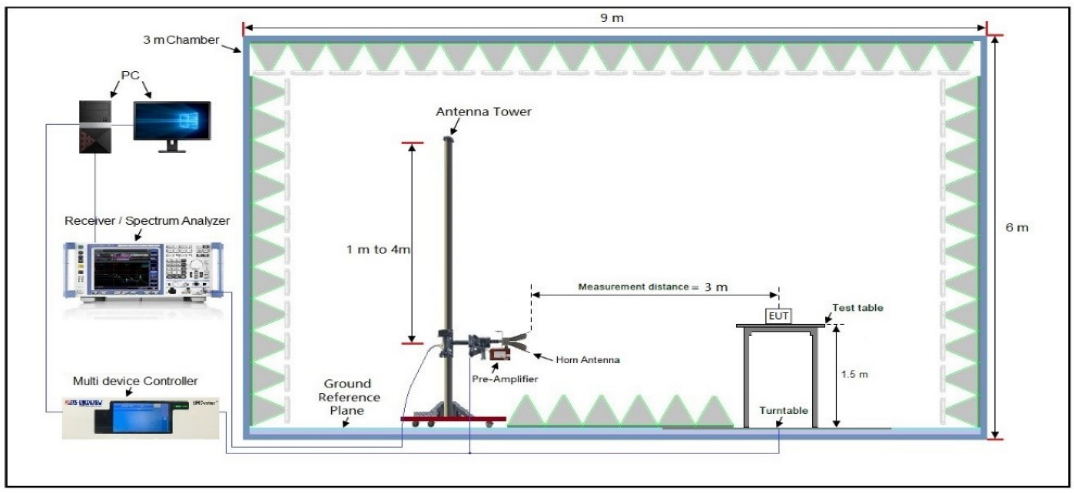
Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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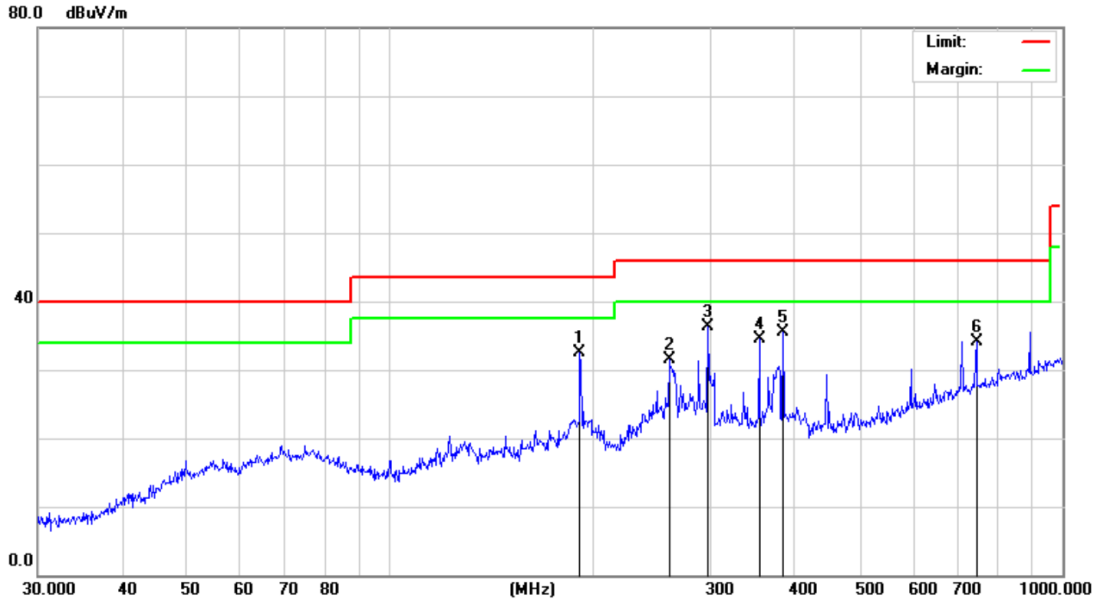
11.4 Measurement Result

Radiated Emission at 9kHz-30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal



Final Average Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	191.7450	32.49	-23.04	43.50	11.01	100	220	Horizontal
2	260.1444	31.50	-20.95	46.00	14.5	100	210	Horizontal
3	297.2241	36.25	-19.65	46.00	9.75	100	230	Horizontal
4	354.1831	34.52	-18.51	46.00	11.48	100	160	Horizontal
5	383.9318	35.41	-17.70	46.00	10.59	100	140	Horizontal
6	744.8661	34.14	-10.85	46.00	11.86	100	130	Horizontal

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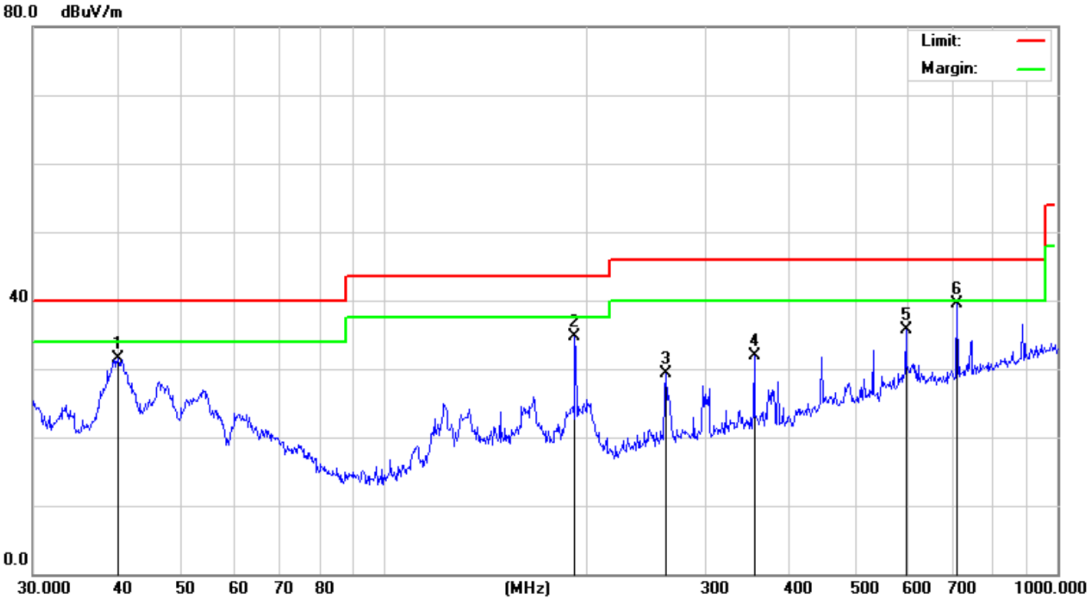
Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical



Final Average Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.1347	31.47	-21.98	40.00	8.53	100	260	Vertical
2	191.7450	34.63	-22.16	43.50	8.87	100	130	Vertical
3	261.9753	29.36	-20.03	46.00	16.64	100	100	Vertical
4	354.1831	32.00	-17.81	46.00	14.0	100	230	Vertical
5	595.1327	35.65	-11.77	46.00	10.35	100	270	Vertical
6	709.1823	39.50	-9.64	46.00	6.5	100	200	Vertical

Result: Pass

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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Radiated Emissions Test Results above 1 GHz

EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.000	50.00	0.08	50.08	74.00	-23.92	peak
4824.000	40.36	0.08	40.44	54.00	-13.56	AVG
7236.000	50.63	2.21	52.84	74.00	-21.16	peak
7236.000	41.26	2.21	43.47	54.00	-10.53	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.000	49.37	0.08	49.45	74.00	-24.55	peak
4824.000	41.88	0.08	41.96	54.00	-12.04	AVG
7236.000	49.84	2.21	52.05	74.00	-21.95	peak
7236.000	41.91	2.21	44.12	54.00	-9.88	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass

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Radiated Emissions Test Results above 1GHz

EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.000	50.34	0.14	50.48	74.00	-23.52	peak
4874.000	40.37	0.14	40.51	54.00	-13.49	AVG
7311.000	50.19	2.36	52.55	74.00	-21.45	peak
7311.000	39.74	2.36	42.10	54.00	-11.90	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.000	50.44	0.14	50.58	74.00	-23.42	peak
4874.000	40.73	0.14	40.87	54.00	-13.13	AVG
7311.000	50.72	2.36	53.08	74.00	-20.92	peak
7311.000	41.05	2.36	43.41	54.00	-10.59	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass

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Radiated Emissions Test Results above 1GHz

EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	49.02	0.22	49.24	74.00	-24.76	peak
4924.000	40.65	0.22	40.87	54.00	-13.13	AVG
7386.000	49.02	2.64	51.66	74.00	-22.34	peak
7386.000	41.40	2.64	44.04	54.00	-9.96	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	49.67	0.22	49.89	74.00	-24.11	peak
4924.000	42.03	0.22	42.25	54.00	-11.75	AVG
7386.000	50.06	2.64	52.70	74.00	-21.30	peak
7386.000	41.15	2.64	43.79	54.00	-10.21	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass

Note:

1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. The 802.11b is the worst case and recorded in the report.

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Band Edge Emission Test Results for Restricted Bands

EUT Name	Laptop Computer	Model Name	NX14CM
Temperature	24.3℃	Relative Humidity	59%
Pressure	960hPa	Test Voltage	DC 11.67V by battery

802.11b_TX CH01_2412 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	40.75	29.99	30.21	8.35	48.88	74	-25.12	Peak	Horizontal
2	2390.00	30.64	29.99	30.21	8.35	38.77	54	-15.23	AV	Horizontal
3	2390.00	35.83	29.99	30.21	8.35	43.96	74	-30.04	Peak	Vertical
4	2390.00	27.66	29.99	30.21	8.35	35.79	54	-18.21	AV	Vertical
802.11b_TX CH11_2462 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	38.78	30.25	30.25	8.5	47.28	74	-26.72	Peak	Horizontal
2	2483.50	30.18	30.25	30.25	8.5	38.68	54	-15.32	AV	Horizontal
3	2483.50	36.03	30.25	30.25	8.5	44.53	74	-29.47	Peak	Vertical
4	2483.50	27.78	30.25	30.25	8.5	36.28	54	-17.72	AV	Vertical

802.11g_TX CH01_2412 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	41.47	29.99	30.21	8.35	49.6	74	-24.40	Peak	Horizontal
2	2390.00	32.30	29.99	30.21	8.35	40.43	54	-13.57	AV	Horizontal
3	2390.00	42.83	29.99	30.21	8.35	50.96	74	-23.04	Peak	Vertical
4	2390.00	31.29	29.99	30.21	8.35	39.42	54	-14.58	AV	Vertical
802.11g_TX CH11_2462 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	42.72	30.25	30.25	8.5	51.22	74	-22.78	Peak	Horizontal
2	2483.50	33.80	30.25	30.25	8.5	42.3	54	-11.70	Peak	Horizontal
3	2483.50	41.35	30.25	30.25	8.5	49.85	74	-24.15	AV	Horizontal
4	2483.50	31.33	30.25	30.25	8.5	39.83	54	-14.17	Peak	Vertical

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802.11n-HT20_TX CH01_2412 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	45.99	29.99	30.21	8.35	54.12	74	-19.88	Peak	Horizontal
2	2390.00	33.69	29.99	30.21	8.35	41.82	54	-12.18	AV	Horizontal
3	2390.00	45.73	29.99	30.21	8.35	53.86	74	-20.14	Peak	Vertical
4	2390.00	29.55	29.99	30.21	8.35	37.68	54	-16.32	AV	Vertical
802.11n-HT20_TX CH11_2462 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	44.63	30.25	30.25	8.5	53.13	74	-20.87	Peak	Horizontal
2	2483.50	33.78	30.25	30.25	8.5	42.28	54	-11.72	AV	Horizontal
3	2483.50	41.60	30.25	30.25	8.5	50.1	74	-23.90	Peak	Vertical
4	2483.50	30.49	30.25	30.25	8.5	38.99	54	-15.01	AV	Vertical

802.11n-HT40_TX CH03_2422 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	46.83	29.99	30.21	8.35	54.96	74	-19.04	Peak	Horizontal
2	2390.00	36.15	29.99	30.21	8.35	44.28	54	-9.72	AV	Horizontal
3	2390.00	44.49	29.99	30.21	8.35	52.62	74	-21.38	Peak	Vertical
4	2390.00	34.01	29.99	30.21	8.35	42.14	54	-11.86	AV	Vertical
802.11n-HT40_TX CH09_2452 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	46.63	30.25	30.25	8.5	55.13	74	-18.87	Peak	Horizontal
2	2483.50	35.86	30.25	30.25	8.5	44.36	54	-9.64	AV	Horizontal
3	2483.50	44.43	30.25	30.25	8.5	52.93	74	-21.07	Peak	Vertical
4	2483.50	34.16	30.25	30.25	8.5	42.66	54	-11.34	AV	Vertical

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802.11ax-HE20_TX CH01_2412 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	43.43	29.99	30.21	8.35	51.56	74	-22.44	Peak	Horizontal
2	2390.00	32.35	29.99	30.21	8.35	40.48	54	-13.52	AV	Horizontal
3	2390.00	44.85	29.99	30.21	8.35	52.98	74	-21.02	Peak	Vertical
4	2390.00	30.93	29.99	30.21	8.35	39.06	54	-14.94	AV	Vertical
802.11ax-HE20_TX CH11_2462 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	43.47	30.25	30.25	8.5	51.97	74	-22.03	Peak	Horizontal
2	2483.50	33.26	30.25	30.25	8.5	41.76	54	-12.24	AV	Horizontal
3	2483.50	39.50	30.25	30.25	8.5	48	74	-26.00	Peak	Vertical
4	2483.50	29.46	30.25	30.25	8.5	37.96	54	-16.04	AV	Vertical

802.11ax-HE40_TX CH03_2422 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	48.12	29.99	30.21	8.35	56.25	74	-17.75	Peak	Horizontal
2	2390.00	36.79	29.99	30.21	8.35	44.92	54	-9.08	AV	Horizontal
3	2390.00	43.80	29.99	30.21	8.35	51.93	74	-22.07	Peak	Vertical
4	2390.00	33.62	29.99	30.21	8.35	41.75	54	-12.25	AV	Vertical
802.11ax-HT40_TX CH09_2452 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	46.43	30.25	30.25	8.5	54.93	74	-19.07	Peak	Horizontal
2	2483.50	35.78	30.25	30.25	8.5	44.28	54	-9.72	AV	Horizontal
3	2483.50	43.89	30.25	30.25	8.5	52.39	74	-21.61	Peak	Vertical
4	2483.50	31.74	30.25	30.25	8.5	40.24	54	-13.76	AV	Vertical

Result: Pass

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. Margin = Emission Level - Limit.
3. The duty cycle coefficient has been corrected into the spectrum analyzer readings.

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12. AC Power Line Conducted Emission

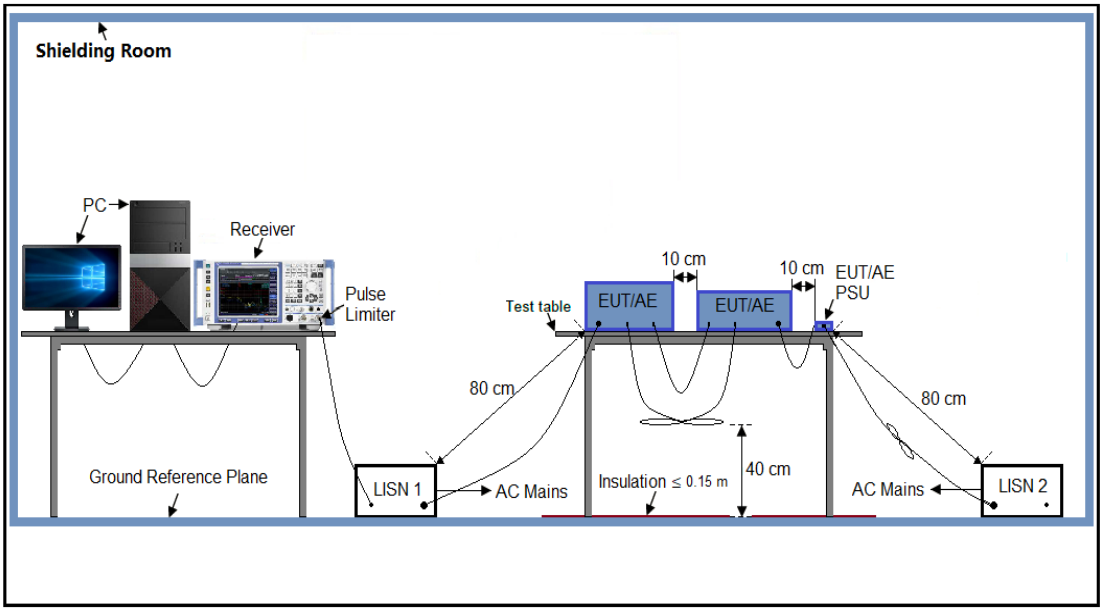
12.1 Measurement Limits

Frequency	Maximum RF Line Voltage	
	Q.P (dBμV)	Average (dBμV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2 Block Diagram of Line Conducted Emission Test



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12.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 20V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.
4. A conducted emission is calculated by the following equation:

   •Measurement Level (dBμV) = Receiver reading (dBμV) + Transd (dB)
   •Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
   •Margin= Limit-Level

12.5 Test Result of Line Conducted Emission Test

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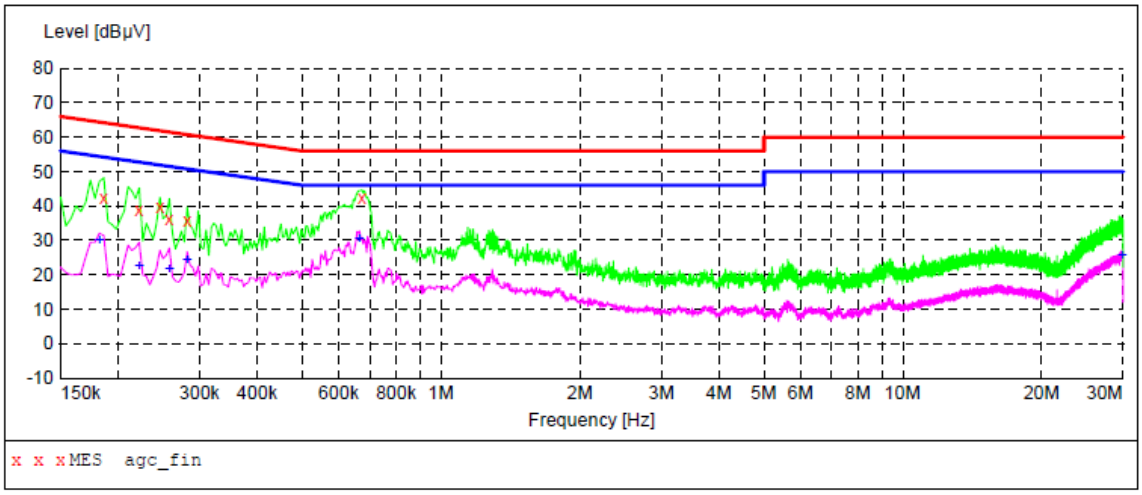
AC Power Line Conducted Emission Test			
Test Mode	Mode 1	LISN Line	Hot Side



MEASUREMENT RESULT: "agc_fin"

2025/10/24 23:06

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.186000	42.30	10.3	64	21.9	QP	L1
0.222000	39.00	10.3	63	23.7	QP	L1
0.246000	39.60	10.3	62	22.3	QP	L1
0.258000	36.00	10.3	62	25.5	QP	L1
0.282000	35.60	10.3	61	25.2	QP	L1
0.674000	42.30	10.3	56	13.7	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/10/24 23:06

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.182000	30.00	10.3	54	24.4	AV	L1
0.222000	22.80	10.3	53	29.9	AV	L1
0.258000	21.70	10.3	52	29.8	AV	L1
0.282000	24.30	10.3	51	26.5	AV	L1
0.666000	30.70	10.3	46	15.3	AV	L1
29.854000	25.80	14.1	50	24.2	AV	L1

Result: Pass

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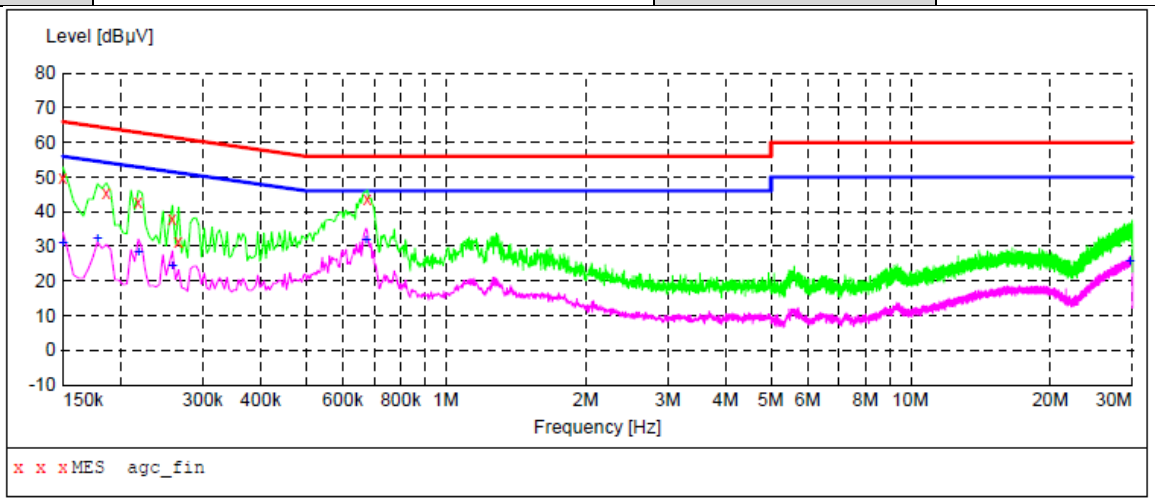
AC Power Line Conducted Emission Test			
Test Mode	Mode 1	LISN Line	Neutral Side



MEASUREMENT RESULT: "agc_fin"

2025/10/24 23:03

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	49.70	10.3	66	16.3	QP	N
0.186000	45.50	10.3	64	18.7	QP	N
0.218000	42.70	10.3	63	20.2	QP	N
0.258000	38.10	10.3	62	23.4	QP	N
0.266000	31.20	10.3	61	30.0	QP	N
0.678000	43.60	10.3	56	12.4	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/10/24 23:03

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	30.80	10.3	56	25.2	AV	N
0.178000	32.20	10.3	55	22.4	AV	N
0.218000	28.40	10.3	53	24.5	AV	N
0.258000	24.10	10.3	52	27.4	AV	N
0.674000	31.60	10.3	46	14.4	AV	N
29.666000	25.60	14.0	50	24.4	AV	N

Result: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC12060251001AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC12060251001AP03

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.